 AAAGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGGAA
 G GCCAA $C$ G $\operatorname{CA} A \operatorname{Ag} \operatorname{G} G A A A A G G G G A A A A A A G G G G A A A G G A G A A A$ $C \subset A A G A A A G G A A G G C C A G G G C C G G A A A A G A G A A A G G A A A A A A$
 G G A G G A G G G G A A G G G G G G G G A A A A G G G G C C A A T T G G G A A G G A GGGAGAAGGGCCAAGGAAAAGGAACCGGGGGGCAGGCAAAAA G GAA A A A A A A A G GAAAAAGGGGAAGGCAGGCCAAGGGGAGAG CAGAAGAACCAAAAAAAAAAGGAAAGAGCCGACCAGGAAAGG GAGGAACCGGAACCCCGGAGAAGGGGTTGGAAAAAGATAAGA A A G G G GAA $A \operatorname{GAAACCAAGGAAAAAAAATTCCGGGGCCGGGAAA}$ A A G G A A A G GAGGAAAAAAAAAAGGAAGGAGAAAACCGAAAAA A A A A A A A A A G G A A A G GCCAAGGGGCCGGAAAGGACAACAGAA AAAACCAACCGGACGGCAGGAAAAAAGGAAAAAAAAGGGGGG A GAA $A \operatorname{G} G \mathrm{G} A A A A G C A A A A G G G G G G G G C C G G G A G G A A G A G A G G$ G G G G G GCCAGGAGGGGAAAAGACCCCGGCAAAGAAGAAAAAA GAAAGGGGAACCCCGGAGGGGGGGGAGGAGAGCAGAAAAAAA AAAAGGCCGGAAGGGGCCAAGGGGAGGGCCGGTTGGGGAAAA G GAAAACCAAAAAAAAAAGGAAGGAATTAACCAAAAGGGGGG GCGAGGGGAAAAACCCAAGGAAGGAACCGGGGAAGGGGCCGG ACAAGGCCGGAAAAAAAGGAAAGGAAACAGAGAAAAAAGACA

 C C G A G A A A G G G G A A G G G G G G C C A A G G CA $\mathcal{A} G A A G G A A A A G G A C$ GAGGAAAGTTAAAAAAGGGGAAAAACAAGAAAAACCGAAAA G AAAGGGGGAAGGCCGGGAAAAGGGCCGGAAAACCAAGGGGAG GAAA A GAGGAACAAGAGGAAAAGGAAGGGGAAGGAAGGAGAA G G G G G G G G A A A GAAAAACAGAAACAAAGAGGAGAAGAAAGAA AACCCCAACCAAAAGGGGAAAAGGAACCAAAACCAAGGGGGG CAAAAAGGAAAACCGAGGAGGAGGAAAAGGGAGGGGGGABAA A A G GAAAAGGCCAAGGAAAGAAGGGGAGAAAAGGAAGGAAAA A A A A A A CAGAGAGGGGAATTACAGAGGGCCAAAAGGCCAAAA G G G A G A A G A G T A A G G GCCAAGGGGCATTGGAAGAGGAAAAAA AAGGAACCAAAAAAAAGGGGAAAGCAGAGGAAGGAGGAAAAA A A A A A A A A A A A A A A G G G G A A G G G A C C A GA GAA GAC C G GA G G G GACCGGACAGCCAAGGGGCCGGAGCAAGGAGGCCGGCCAAAA $G G C C C C A A C C A A G G A G G G G A G G G A A A G G A A G G G G G G A A A A G A$ A A A G G G T T A A $\mathcal{A} G G G G G A A G A G G G A G G G A A A A G A A A A C A A A G G$
 G G G GAAAAGGAAAAAAGGAAAAAAGGAACCGGGGGBAAAAGG G G A A G G G G A G G G G G G G C C G G G G A G A A G G G A GACA A A G A C C C C G G GAGGGGAGCCGGGGCCAAGAAAGGGGGGGGGGTAGGGGCC G GACCAAAAAAAAACCAAGGGGAGGGCCAAGGGGGGGAAAAA G GCCGGAGAGAAAAGAGGGAAACCAAAGGGCCCAAAAAAAGG GAGGGGATCCGAGGAACCGGGGGGCCAAAAAAGGCCGGAAGA $A G A A G G G G G G A A G G G G G G A A A A A A A C G G G G G A A A G G A C A A G G$ A GAGGGGGGGGGAAAGGGAAAAAAGGACGACCGAAACACAAA A A A A A A A A A A G GAAAAGAGGAAGGGGGGCCAAAAAAAAAAAA $G G A A A A G G A G G G A G C C G G G G G G G G G G A A G G A A A A C C C C A G A A$ G G G G G GAAAACCAGGAAGGAACAGGGGGCCAACCGGGGGGGG $A G C A G G A C G A G G A A G A G G G A G G A A G A G A A A G G G G G G A C G G G G$ A A A A A A G GCCGGAAGGCCGGAAGGCCAAGGAAGGCCGGGGGG G G G G G G GAGACCAACCGGGAAAACCACAGAGGAACCAAAAGG G GAAAA $A \operatorname{A} A A G G A G A A G A A C G G A G G G G A G G G G G G G G A A C C G G$ G GAACCGGGGCCCCGGGGAAGGAAAACCGGCCAAAAAAGGAA GAAAAAAAAAAAGGAAGGGGCCGGAAGGAAAAAAGGGGGGGG A A A G A GCCAACCAACGAAGGAGGAAAGGAAAGAAAAAGGGGG $G G G A A A G G G G G G G A G G A A A A C C G G A A G G A G A A A A G G C C G G G G$

AACCAAGGAAAAAAAAGGGGGGAAGGGGGGGGAAGGGGCCGG GAGGAAAGGGCAAAGGAAGGGGCCAAGGAAAAAACCAAAAAA C CAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A C C G G G G A A C C A A G G G G G G G G G G A G$ AAAAGAGGGGGGAAGGGGAAGGATAAGGGGAAGGAACACCAG GAGGGGAAAAAACCGGGAAGGGAGGAACGGAGGACAGAAAAG GAGGAAGGAAGGGAGGGGCCCAGGAGAGAGCCAGGGGAAAGG A A A A A A A ATTA A A A A G CAAAAGGGGGGGAGAGAAAAAAAAAG GAGGGAGGCCGAAAAAGAAAAAAGGGACGGGGAAGAGGAAAA G GCAAAAAAGAAGAAGACAGCAAAGAAAGAGGGGAAGGCAAA G GAAAAGGGGGGAAGGAAGGGGAAAAAACAGGGGGAGGGGGG C CAACAGGAAAAAACCAAAACCAAGAAAAAGGGGCCGGGGAA G G G G G A GAGGGGAAAAAAAAAACCAAAAGGGGAAGGGGGGCC
 $C \subset G G A A A A A A A A G G A A A G T A G A G G C C G A G A A A G G G G A A G G G G$ AAAAGGAAGGAAAAAGGGCCGGGGGGAAGGCCAACAAAGGGG GATTGGGGAAGGGGACGAAAAAGAGGGGGGAAAGGGGGGGGG G GAAAAGGGAAGAAGAAGGGAGGAAAAAAAAGGAAAAGAAT G G G G G G A G A A G G G G G G A A A G G G A A G G G G C C G G G G A A G G A A A A
 A G G A G G G G A G A G A A A A A G G G A A A G G G G G G G A A A A A A G G G G C C $A G G G A C A G A G G A G G G G A A G G A A G G G G A G G G G A A A A A G G G G G G$ A G G G G GC C A A A A A A G GCCAAAAGGGGAAGAAAAAAGGGACAA G G GAGAGGGGAAGGGGAAAAGGGGAAGGAAAAGGAAGABAAA GAGGGGGGAAGGGGAAGGAAAAAAAAAAAAGGGGGAAAGGAAA G G G GCCAGGGGAGGAACCAAGGGAGGGGGGGGGGAAAA GAAT GAGGCCGGGGAAAAGGACCGTAGAGGAAGGAAAAAAGGAGAA G G GAGGGGGGAGAAAAAAGGCCAAAAAAAGGAAAGGGGAAGA ATGACAAAGGGGAATTAAAAAGACAGGGAAGGGGGCAGAAGA G G G G A A A A G G TAGGAACCAAAAAAAAAAAAAAAAAAAAGACC AACCGGGGAAAAGGGGAAAGAAAAAAGGAAAGTTGGGGGGGA A A G G G GAA A G G G G G G A A A A A A A A A G G G G GAA A A A GAAA A A A C AACCGGCCAAGGGGGGAAAAAAAAGGAAGGCCGGCCAATTGG AA $A \operatorname{GGGAA} A A G G A A A A T T C C G G G G A A A A A A A A A G A A A A A G A A$ G G A A A A A A A A A A G GAGCCAAAAGGAAAAGGAAAAAAAAGGGG A A A C G G G G A G G G A G G G G G G G A A C A G G G G G G G G G G C C A A A G G A G G G G A A GAGAAACAGGCCAAAGAAAAGGGGGGAAAAAAGGCC CAAAAAGGGGGGCCCCGGAAGGCACACAGAAAGGAAGAAGGA AACCAAGGGGGGAAGGTTCCAAAAAAAAAACCAACAAAACBG A G G GAAACGAAAGGGAGGAAAGAAGGAACAGGGAAGAGAGAG A A A A A A A A G GAACCGGAAGGAAGGGAGGAAAAGGGGGAAAAA $G G A A G G A A A A C C A A A A A G G A A A A A A G A G A G A G G G G G A A A A C A$ G GCCAAAGAAGGGGGGGGCCAGGCATGAGGGGCAGGGGAGAA AAGAAGGGCCGGAAAAAAAGAAAGAGAAGGAAAAAACCACAA C C A A G G A G G G G GAAAAAAGGGACCGGAAAGGGAGGGAAGACA G G G GAAAGACGGAACAAGAAGAAGCCGGCCGAGAGBAAAACC $G G A A G G A A G G G G A A A A G G A A A A A A A G C C G G A A G G G G G G G G G G$ $G G C C A A G G A A G G G G A A G G A A G G G G G G C C G G G G A A G G A A G G G G$
 AA $A G G A G G G G C C G G A A A A C C A A G G A A G A C C A A A A A A G G G G G C$ C C G G A A A A C A G G A A G G G G G A A C G G A G G G C A A C G G G G G G G G G G A GAAA A A GAGGGGGCACCGGAGAAAAGGAAAAAAGGCAAAAA
 GAACGAAAGGAACAAAGGGGCCAACCCCCCAAAABACCAGAG AAACAAGGGGAAAAAAGGGGAGGGGGGGCCAAAGAGGGGACC C CAGAA GAAACCAAGAGGAAAAAAAAGGAAAAAAAAGGGGGA TA $A$ A $\operatorname{G} G A A A A G G G G A A A G A G G G A G G G A A C C G G C A A C A A A G G G$
 G GAAACAGGGCCAGGGAGGGAAAAGGAAGGGGGGGGGAAA$G G$ $G G C C C A A A G A G A G A A A A A G G G A A C G G G G A A A C C C G G A$

AATAGGGAAAAGGAAAAAAAAGAAAAAGGGGAAGGAAAAGG C CAAGGGGCGCCGGGGGGAAAAGGGGAAGGAAAACCCGAACA A GACAGGGAAGGAAAGCAGGGGACAGAAAGAGAAAAAAGGGG AAGGAAAAGGCCGGAAAAAAAAGGCCAAAAGGCAAAACGGAG GGGGGGGGGGAGGGAAGGGGAAGGAAGGAAAAGGGGGGCCAA AA G G G GAAAAGGAAAAAAAAGAGGGGAAAAAAAAAACCAAGG C C A A A A G G G G G G G G GAGGAGAAAAGGGGGGCGGGGGGAGGCG C GCCGAAGGGAACCATAAAAATGGGATTAAAAGGAAAACCGG A A G G G G G G A A G GAAAAGGGGGAGGGACAAGAAGGCCGGGGGG GAAAGGGGGGGGGCCCAAGGAGAAAAGGAAGGAAGAACAAAG CCAGGGAACCGGAGGAAGACAAGGAAGGGGAAAAGGCCAAAA AAAAAAAAGGAAGGGGAAAAGGAAAAAAAAAGAAAAGGAAAG G GAC C G A A G G G G A A A A A A G G G G G G A A A A A A G G G G G G G G G G A A AAAAGGGGGGAAGGCCAACCGGAAAAAAGGCCGGGGAAGGAA G GAAGGAAGGGGGGCCGGGGGGAAGGAAGGAAAAGGGGAAAA AAGGCCTTCCCCAAGGGGAAGGGGGGACAAAAGGTTAAGGGG AAAAGGAAGGAAGGGGGGAAAAAAGGCCGGGGAAAACCGGAA AA $\mathrm{A} A \mathrm{G} \mathrm{G} \mathrm{G}$ GAAAAGAGGGGCCGGGGCCGGGGGAAAAAAACCAA GACCCCAAGGGAAAAAAAAAGGAAGGGGAGGGGGGGAGGGAA G GA GAGGGAGCCGGGGGGGAAGAGCCCCGGGAGAAAGGCCAA AAGGGAAAAAGGGGAAAAAAGGGGCCAAAAAAAGGGGAGGAG AA G GAAAAAAGGAAAAAGCCCCAAGGAAAAGGAACAAAAAAA AA G G G G G GAAAACCGGAAGGGGAAGGAACCAAGGGGGAACGG G G A A A C A A A A A A A A G GAA $\operatorname{G}$ GAAGGGGGGGGAAAAGGGGGGGG GGGGGAAAGGAAAACCGAGGAACCAAAAGGAACCCCGGCCAA GAGGGGGGAAGGGGGGGGAAAGAAGAGAAAGGAAAAGGGGGG AAAAGACCGGAGGAGGGGGGGGAGGGGGGAGGACAGGGGGAA G G GAAAGGAAAAAAATAGAGCAGAAAAGAAGGGGGGAAAGCC AAAACCGAAAGGGAAAAAACAAGGAAGGAGGGAAGGAGGGGG C C A A G G A A G G C A A A A GAAAGGGAAAAGGAGAAGGGAGGGAGA G GAAGGCCAAGGCCCCGGGGAGGGAAAAGGAAAAGAGGCCAC GGAAGGAAGGCCAAGGGGGGGGAAGGCCGGGGAAAAAAGGCC
 A A G G G G A ACCTTGGCCCCGGAACCAAAAAACCAAAAAATAAA G GAAGGAAGGGGAAAAAAAGGGAGAAAAGGGGCCGGGGAGGG C A GACCGGGGGGGGGGAAGGAAAGAGACGGGAAAGAAAAGGG A G G G G G G G G G G G G GAATTGGGGAAAAAAGGAAGGAACCAAAA A A A A A A A A A A A A A A GAGGGGACCCCCGGAAAGGACCAAGAAG C C G GA $\operatorname{GAA}$ A T G G G G G GAAAAGGGGCCCCAAGAGGCCGGAAAA G G A A A A C A C A G G G G GAAAGGAAGGAAGGTTAAAAAAAGGCAA C C G GAGCCGACCAAAAAACCAAGGGGAAGGGGGGGAAAAACA GAGGAAGGAAAACCGAGAAAGGGGAACCCCAGACCCACGGAA GGAAAAGAGGTtAAGGGGCCGGCAGAGGAAAAGGAAGGGGGG C CAAAAGGAAGGGGGGTTGGGGGAAGCCGAAGAGAAGAGGAA AA G G GAGGAAGGAAAGAAAAAAAGACAAGGAAAAAAAGAGAA C C A A A A A A G G G GAGAAAAACCCAGAAGGGGAAAACCAAAGAG GAAGAAAAAAAACAGGAAAAGAAAGGGGGGAAAAGAAAAAAA AA G GAA A G G GAAAAGGGGGGGGGGAAGGAAAAGGGGGGAAGG CCGGAAGGAACCCCGGAAAAGGAAGGAACCGGGGAAAAAAAA A G G GAA $\operatorname{l}$ GCC G G G G A A G G G G G G G G A A A A G G G G A A A A GAGGCC AAAACCACGGAAGGGGCCAGGAAGACGGAAAAGGGGCCGAGG CAGGACAAGGAAGGAAAAGGGGAAAAAACCGGCCGGGGAAAA AACCGGGGGGGGAAAAGGGGAAAAAGCCGAAGCCAAAAAAAA AAAACCAAGGGGCCGGAGGGAGAAAGAGAGAAGGAAGAAGGG ACAGGAGGGGGGAAAAAGTAAGGAAAAAAAAACAAAGGGGGG GAGAGGGAGGAAAGGGGGAGAAAAAAGGAAAAAAGGAAGGGG G G G G G G A G GA G GAAGGAAAGAGAAGGGAAAGGGGAGCCGACC GGCCGGAAAAAAAAGGAAAAGGGGATAAAGACGAGAGAAAAA AGCCAAAGAACCAAAGAAAAAGGGGGCCGGGGACTTCCGGGA

A G G GAACAAAGGCCAAGGCAGAGGAAGGAAAAAAAAGGGGTT G G G GCCAGAGCAGGAAACGGAAGGCCAAGGAGGGGGGGAGGG A GACTTAGGAAGAACCGGGGAAGGAGAACCAAGGGGGGAACA AAAACCAGGGAAAAAAAAAGAACCAAAAGGGAGGGGAAGGCC AACCAAGGAGGGGGGGAACCGGGGGGGGAGGAA $\operatorname{A} A A G G G G G A A$ A A C C A A A A A A G GCC G G A A G GAAAAAGGAGACCGGAA GAA AAA CAGGAAGAAACCGGGGGAGGGGAAAGAAGAAGGACCGAAAAA AACGAGTTAGGGGAAGGAAGAGAAGGCCAAAGAGAGAAAAAA G G G G G G A A A A C C C A T T C C G G G G A A G GTTXAACCACAAAGAACC AAGAGGAGAGGGAAAAAGAACAAAGGAAGGGGGGGACCAGAA G GAAAAAACCGGAACAAAGAGGAAAGGAGGAGAGAAGGGGGG $A G A G G G G A G G G A A G G A A G A A G G G G A A A G G G G G A A G A G A A A G G$
 $G G A A A A G A G G G G G G G G G G A G A A A A A A A G G G A G A G A G G G A G A T$ G GAATTGGAGGGAAGGAAAAAAAAGGAACCCAAAAGAACCAA GAAGCACCAGAAAATTAAGGAATTTTCCGGAAAAGGAAGGGG
 G GAA $A \operatorname{GAAAAAGGAAAAGGAAAACCAAGGAAAAGGAAGAAAGG}$ $G G A A C C G G C C A A C A A G G G C A A A A A G A A A G G G G A G G G G G C C C B$ G G G G C G G G G G A A G G C C A A G G G G A A G G G G A A CAAA $A$ G G G A A G G G GAAGGGGAAAAAAAGAAGGAACCGAGGGGAACAAGTTCAAG $C \subset A A C C A A A A A G A A A A G G G A A A G G G G A A A A A A A A A C A G A G G G$ G GAA A G G G G G G GCAAA $\mathcal{A}$ G GAAAAAAAGAAGGAGCAAAGAATAA C C GGCCAAAGAAAAGAAGAAGGGAAAGGAAAAGGAAGA GAAA $A G C C A A G G A A G G G G G G G C A A G G A A G G C C G G A G G G A A C C G G G G$ AAGACCGGAAAAAAAAGGGGGGAAGAGGAAAGGGAAGGAAGG AAAGAGAGGAGGTAAAAGGAAGAACAGGACAAGGGGCCAGAAA A A G G G G A C G G A G G A C C G G A A C C G G G G C C C CAACCAA G G T A T T GAAAAAGGCCGACAGGGAAGGGAGAAAAGAAAGAAGAGAGAG G G G GAAAAAAGGAAAAAACAAAAAGGGGGGAAGGCCGGAAAA G G G G A A A A C C G G C A A A C C A A G G G G G G A A G G A A G G G G A G G G A A A G G GCCAAGGATGGGAGGAAGGCCGGGGGGAGAAAAGGGAAA GACCCAAAAAGGAGAAAAGGAAAACCAAAAGGTTGGGAGGCC G G G G A A A A G G A A C C A A A A G G G G G G A A A A A A A A G GAA G G G G A A A G G A A GAAAC G GA G GAAGGAAACCCCCCAAAATTGGAAGGAA AAAGCAAAGGAAGGGGAACCAAAAGGGGAAGGAAAAAAGGGG G GAAAAGGAAAAGGAAGGGGGGAAAAAAAAGGGGGGAACAAA AAGGAACCAAGGAGAACCGGAACCGGGGAAAACCAAAACAAG $G G C C A A G G G G A A A G C C G A G G C C G G G G G G A G A A A G A A G G A A G B$ C G A A A G G G G G G GA GACAGAAAACCAAAAGGCCGGCCGGAAGG G GAAGGAAAAGGAGAAAAACAGAGAAAAAAAAAAAAAAGGAA A A A A A A G GCCAGGGAAGGAAGGGGGGAAGGCCAAAACCCCGA GAAGACGACAAAAGCCGGGGGGGGAAGGGGAAAAGGAAAAGG A A G G A A A A G G A A A A G G A A G G A A A A A A C C GAAA $A \operatorname{A} G G C C G G G G$ A A A A A A A A A A A A A A A A C C G G G A A A A A A A A A A A CAAAAA G GAA A A A A A A A ACAA ACAAAAAGAGGGAAAGGGAACCCBAAGAAAA GGACAAGGGGCACCGGAAGGCCGGAAAAAAGGCCAAGAAGAA AAAAAAAAAGCCGGCCAAAAGGCCGGAAAAGGAAGGGGGGAA G G G GAA $A \operatorname{GCAT} A A G A G G A A A A A A A A A A A C C A A G G A A G G C C G G$ G GACAAGGCGAGAGAAGGAAAAGGAAAGGGGGGGCCCACABA G GAAAAGGGGGGAACCGGAAAAAAGGAAAGGGGATTGAAAAA $C \subset C C G G C C G G A A G A A A C C C A G G G G G G A A A A A A A A A A A A G G A A$ A A A A T T A A G A A A G G G A A A G G G G G A A A G G G G A A G G C C A A G G A A G G G G G G G G GACCGGAACCAGACGGAAGGAAGGCCGGAAGAAA $A C G G G A A A G G A G A G G G G G A A A A A G C C G G G G A A G G A A A A A A A A$ A A A A G G G A T T A A A A A A A A G A G G G G A A A A A A A A T T A A A A C C G G A A A A A A G G A A A A A G G GCCCCGGTTGGAAAAAAAA GGGGGGGG G G A A A A G G A GCCCCAAAAAAGGGGGGGGAAGGAACCAAGGTT $A A G G G G A A G G G G A A G G G G A A G G G G A A G G A A T T G G A A G$

GAAGGAAGGCCGGAAGGAAGGGGGGGGAACCGGGGAACCAA AACCAAAGAAAACCAAGGGGAAGGGGAACCCCGGGGGGGGGG AAAAAAAAGAAAGGAGGGGAGGAAGGAAAAAAGGAAAAAAGG G GCCCAGGGGAAAAGGCCAAAGCCAAAAGGCCGGGAAATTGG GGGGAAGGCAAAAAAAGACAACAAGGAGAACGAGGACCAAAA AACACCAGAAAGAAGGAGAAAAAAGGAAAAAGAAGGGGAAGG G GAAAAGGAAAAGGAAGGAAAAAAAGGGAGGAGAGAAAAGAA A ACCAAGGAGAAAACCCCGGGGCCGGGAAGAGGAGGGGAGAA A A C A G G A A A A G GAA G GAA G G GAAACCGGGGGGTTAAGGAAGG GGGGCGAAGGAAAGAAAAGGACAAGGGGAGGGAAGGGAAAAA G G G G GCGGCCAAAGGGAGAGCCAAAGGGGGAAAAGGGGGGGG G G G GAACCGGGGCAGGAGAGAAAAAACCAAGAAAGGAGCCGG A A G GA $\operatorname{l}$ AC G G G GCCGGGGAAGGAAAGGAAGGAAAGGAAGGGG G GAAGGAAAAGGGGGGAAGGAAGGGGAAGGGGAGGAGACCCC AAAGAGAAGGGGCCAAGGAAGAAGAGGGTAAGTTCCGGCCGG GGGGAAGGAAGGAAGGGGGGGGGGAAGGAGAGAAAAGGAGAA G GAAGGGGAAAAAAGGGAGAGAAAGGCCAAAAAATTGGGGGA A A G G A A G GAA A G G G A A A A A G GAGGGGGGGGGGAATTGGGGGG GGGGGGAAGGGGAACCGGAAGGCCGGAACCAAAAGGAAAAGA AAAAGGCCGAGAACGAAAAAAAGGAAAACCAAGGAACGAAAA GGAGAGGACCGGGGGGGGCCAAGGGAGGGGAAAAAAGGAACC T TAAAGGAGGAGGGGGAGGGGGGGAAGGAACCAAAAGGAAAA AAACCCAACAGGGGAAAAAGAAAACAAAAACAGGGACAGAGA ACCAGGGAAAGGAGGGGCGAAGGAAGGGGGGGAAAAGGGGGA AAAAGGGGAAAAGGAACCAAAAAACCGGAAGGAAAGCCGGGG AA A GGGCCGGCCGAACGGAAAAGGCCGGGGGGGGAACCAAGG CCAAGGCCAAAAGGAAAAGGCCAAAAGGAAAACCGGGGGGAA A A G G A A A A G G A A G G A A A A G G A A G G G G A A A A G G G G G G G G G G G G AA G GAA $\operatorname{A}$ GCCAACCGGGGGGGGAAAACCGAGGGGGGAAGGGG AAGGAAAGAGAACAGGAAAAAAAGAGGGAAAACCCCCCGGGA A A A A A A G G G GAA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAA A GAAGGGGGGAAGGAACCAAAA ACAGGGAGAAAAGGGGAAAAGGAAAAGGGGCCAAAAGGGGGG G GCCAA G GAAGGGGGGAAAAGGGGGGAAGGAAAAGGGAAAAA A A G G G G A A A A A A A A A ACCCCAAGGGGAAGGGGGGAAAAGGCC
 C C GAGAGAGAAAGGCCAAGGGAAGAGCCGGAGAAAAAAAAGG GAAACCGGGGGGGGGAAAGGAACCGGAAGGACAAAAAAAAAA AA A A G G G GCCAGAAGGGGGGGGGGGGAGCCAGGAAGAAGAGG G GA A A G G G G G GAAGGGGGACGAAAAAGGAAAAGGGAGACCGA AAGGCAGGAAGGCCGAACACAGAAAAGGAAGGCCAAAAACAA A GAGGAACGGCCAGGGGGGGGGAAAAAAAACCGGGGGGAAAA C C G G G G A A G G A A A A A A G G T T G G A A A A G G G A A A A A C C A A G G A A AAAAGGCCCCGGAAAAGGAAGGGGGGAAGGAACCAAAAAAAA G G G GAAAAGGAAGGGGGGAAAAGGAAAAAAGGGGGGGGCCGG GGAAAAAAGGAAAAGGGGGGAAAAGGAAAAAAGGGGGGGGAA A A G GAA $\operatorname{l}$ G G G A A A A G G G G A G G G G GAAGGCCGGTTGGAACCAA AA A A G G A G G A A A G GAAGGAAGGAAAAGGAAAAAACAGGAAAA A GAAGGAGAAAAGAAGGGGGGGAAAAAAGGGGGGCCAACCCC AAAAAAGGAAAAAGAAAAGGGGGGGAAAAAGGAGGGAACCAA A A A A A A A G G G A A A GACAAAAGGAAAAAACAAAAAAAGGAAAA GAAGGAAGGGGGGGAGGGAGGGGGGGGGAAAGCGAGGGCCAA AACCGAGGGAGGCAAAGGAAAAGGAACCGAAGCCAAGAAAGA ACAAAGTACAAAAAGGAAGAGGGGAAGAGAGGGAAAGAAGGG AAAACCAAAAAAGGACAGCCGGGGAAAAGGAGGAAAGAGGAA G GAGGGAAGAAGGGAAAAGACCAAGAGAAGGGAACCAAGGCC GAGGAAGGGAGGAGAAGGGGGGCCCCGGAAAAGGGGGGAAGG A G G GCCAGGAAAAAGGAAGGAAAAAAAAAGAAAGAGGGAAAA
 G G G G G GACGGAAAGAACCAAAAGGGGCCAAGGAAGGAGAGCA

G G G G GAAAAACCCCAAGAAAGGGGAAAAAACCAAAAGGCCAA G GAGGGCCAAGGAAGGAAGGGAGGAAGGGGAAGAAAAAAA G G $A$ AAAAGGGGAAGGAACAAAGGAAGGGGGGGGAGGGAAGGAAGG AAAAGGAAAAGGAACCGGAAAGAACCAAAAAACCGGGGAAAA A A A A A A A A G GA A A A A A A GGGAACCGAGGAAAGCAA GAAAA GA A GAGGGGGGGAAGGAAAAGAAAAGCGAAGGGGAAAAAAAAGG A G A A A A A A G A G A A A A G G G A A A G G G G G G A T T A A C C A A C C C CAC AAAAGGAAGGGGAGAAAAAAAAGGGGGGAAAAGGGCCCAAAA A C G G A A G G A G G A G G G A A A G G A G A A G G A G G G G G G G G G C A A A G G G GAAGGTAGCAGAAAAGGAAAACCAAAAGGACCCGCGACCGG A GAA A G G GCAAAAGAGACGGCCGGAGCAAAAAAAAGGAGGCA $A G C C G G A A G G A G G A C C A A A G G A G A A G A A G A A A G G G A A A A A G G$ A A G G G G G G A A $\mathcal{A} G G G G G G G G G G G G G G G C C A C G A G G A A A G A G A A$ A G G G A A G G G G G G C C G G G A A A G G G G C C A A A A G G A A C C A A G G G G G G G GCAGAAGGGCCAAAAAAAAGGAACCAAAACCAAAGAAAA A A GAAA A $A \operatorname{AGGGGGGGGAGGAGGGGAGGAGAAAGGCAAAAGAA}$ A G G A G A G G A A G G G G G A G G G G A G A A G G G G A A A A G A G G A A A A G G GAAGAAGGCCGGGGGGGGAAAAAAAGAAAAAAGGAACAAAGAG
 AACCAAAAGGAAGGAAGGACGGCCGAAGAGAGGGGGAAGAAA AAGGACAACCCCAGGAAAGGAAGGAAAAGGAAAAAAGGGGGG A A A A T TA $A \operatorname{GA} \mathrm{~A} G A A A G G G G A A G G G G G G G A G G G G G A C A A G A G G$ $A G A A G G G G G G G G A A G G A G A A A G A G G G G A A G G G A C G A G G A A A A$

 AAAGGGAAGGGAAGCAAAAAGGAAAAAGAAGGAAGGAACCTT AATTAACAAGAAAAAAAGAAGAAAAAAGGGGGGGAGGGGGAA A A G G A G G G G G G G G A A A G A G A A A A A G GAA A C G G A A A C G G G G T T CAGGGGAAGACCAAAACCGGGGGGAAAAAAGGAAAAGGGGCC A A A A A A A A A A A A A A GGCCACAACCGAAAAGTAGGAAAGAGAA
 G GAAAAAGAGCAGGAGCCAAGGAGACGGGGGGGGAAAAGGGC G G G G G G G G A A A A A A A A G G G G G G G G A A G G A A A A T T G G G G G G G G A GAAAGAAGGGGAAAAGGAAAAGGAAAAGGGGCCCCAACAAA
 ACGACCAAGGAAAAAAAACCGGAAAACCAGAGGGAAAAGGCC G GCCGGCAGACCGGGGGGAAAAAGAAAAAAGGGGAACCAGAA
 A A G G A A G G GAA $A \operatorname{G} G \mathrm{C} G \mathrm{G} A \mathrm{~A} A A A A A A G A T A A A A A G A G C C G G G G A G$ CA $A \operatorname{GGG} \operatorname{G} A A A A A A A A G G C C G G G A A G G G G G A A G G G G G G A A A A C C$ GCAAGCGGGAGGGGCGAGAAGGAGAGGGCCAAAAGAGAAAAG G GAGAAAGGAAAGAGAAGCAGGGAAGACAGAGGGAAGGAAGAG G GCC C G A A G G G G A A G G G G A A A A A A A A A A G G G G G G G G A A A A $G$ G AAAGGAGAAAAAGAGGGGGGGGAAAAGGAACCCAGGCCGGGG C CAAAAGGCCGGGGAAAAGAGACCAAGGAGAAAAAAGGAGAA ATAGGAAAAAAACAAAAAAACCAAAAGGGGGAGACCGGAGAA C C G G G G A G A A G G A A A A T T C C C C G GAGGGGGA GAA G G A G A G G A CAGAAACACCAAACGGAGAACCAAGGGAGGAAGGGGGGGGGA $C \subset C C A A G G A A G G C A G A T T G G G G G G G G G G A A A A G G A A G G A G G A$ GAAA $A \operatorname{GAAACCAAAAAAGGAGAGGGGAAAGGGGGGGGGGAGAA}$ A A A A C CAA A GACAACCAAGGGGCCGGGGCCAAGGAAGAGGAA C CAAGGGGAAAGCAAAAAAAGAAAAAAAAAGGGAAGGGCCAA G G A A C C A A G G A A A A G G G G A A G G A A G G G G A A A A T T G GAA G A G G AAAAGGAAAGAGAGAAAAGGAACCAAAAGGGAAAGGCCAAGB

 A A A A A A G G A A A A A A A A G G GAGAGGCCGGCAAACGAAGGGGGG G GAACCAAAAGGGGCCGGGGCCGAGGAAGGCCCCAAGAAAGG A A G G G G T TAAGGTTCCGGCCAAGGGGGGAAGGAAGGA

A G GAGAGAAGATACCGGGGGGGGGGGGGGAAGGGGAGCAAG G GAAGAAAAGAACCGGGAGAAAAAGAAGGAAGGGAAAACCGG GAGAGGAAAGAGGAAAGAGAAAAGAAGGGACCGAAGAAAAAG GGCAGAAAAAGGCAGGGGGGAGCCAAGGAAAAGGGACCAAAC AAAGAATTAAAAGAAGGGGGAAAAAAAGCCAGGGGGCCGGAA AAAAAAGGGGAAGGGGGGAGGGCCGAGGGGGGAAGGGGCCGG AATTGGGAGGAGAAAAAAAAAAAAGGGGGGAGACAAAGCCGA A G G GCCGGGGAACAGGGGGAAAGGAAGGACAAAAGGGGAAAA AAAAGGAAGGAAGAGGAGAGGGAGAGGGAAAGAGGGGCAGAA GGAAGGAAGGGAAGAGGAGGGGCAGGAAAACCCCGGAAGGAA
 G GAAGGAAAAGGAAGGAAAAGGGGGGAAGGGAAAGGACAGAG A A G A G ACCGGAAAGCAAGAAGGAAAAGGGGAAGGCCAAGGGG C C G GAA $\operatorname{G}$ GAAAAAAAAGGGGAAAAGGGGGAAAAAGGAAGAAA AAACAAGGAGAATTGGGGGGAGCCAAAGGAGGAGGGGGGGAA GGGGGGCAGGGGGGAGCAAACCGGAAAAACAAGAAAAAGAGA GAAAGGGGGGCCAGCCGGAAGAGGGGGGGGAAAAGGAAAAGG G GAACC G G GACCGGAAGGGGAAGGAACCGGGGAAGGAAAAAA G GAGAGAAAAGGGGGGAGGAAGCCAGAGGGCCGGAGGAGGAG A A A GAAAGAACCAAAATTAAGAGGGGGGCCGGAAGGAAGGGG AGAGGAAAACCCAAGGAAGGAAGGAGGGGGGAGGCCGGGGGG ACAAGGAAAACCGGAAGGGGCCGGGGCAGAGGAGGAGAGCAC G G G G G G G GCCAACCGGCCAAGGAAAACCGGGGGGGGGGGGGG C ACACGAAGAGAGAGGAAGGGGGGAAGGCCAAAAGGAAAAGG G GAAAAGGAACCAAGGAAAAGGAAGGGGGGGGCCAAGGGGGG G G G GAAAGCCGGAGGGAAAAACAAAAGGAAAAGGAAAACCGG AAAAGGGAACGGAGAACCAAGGAGGGAAACAGGGCCGGGGAA

 G G G A A ACC G GAAGAAAGGGAGGAACCAAAAGGGAGGAAGGGG C C A A GAAAGGAACCAAAAGGAAGGGAGAAAGGAGAGGGAGAA GGAAGGAATTGGGGCCAAGAGGAACCAAGAGGAGAAAAAAAG G GAAAAGGGGAAGAAAAAAAAGAAGGAAAGGGAAAAGGGGAG G GA A G G A A G G G GAGGGCC G GAA G GAGAGAAGGGGCCCCGGGG G G G GAACCAGCAGGAAGGGGAAGGAGAGAAGGAAAAGGGGAA G G A A A A G G C A A A A A GA G G G G GAA G GAGGGAAAGGGAAAGGTT GGAAAAGGGGGGAGGGCCGGGGGGAAAGAGGGAAGACCGGGG GGGGGGAAGAAAGGGGGGCCAAGGCCAAGAGGAAGGAAAAAA GACCGGGGGGGGAAAAGGAAGAAAAAAAAAAGAAGGCCAAAA C C A G G GCCGGAGAAGAGAGGAAGGGGAAGGAAAACCAAGGAA G G G G A A C C A A G GCCAAGGGGGAAGCCGGCCGGGGAAGGTTCC A GAGAAGGAAAAGGAACCGGGGAAAAGGCCAAAAGCAAGGCC AAAAGGACCAGGGGGGGGAGAGAGAGACCCAAAAGAGGGGGG C CAACACAGAGGAAAAAAGAAGGGAAAAGGAGAGGAGGAGAA A A GAGGAAAAAAGGGGAAAAAAGGAAGGCCGGAAAAAGGGGG AAAACAAACCGAAACCAAAAAAAACCAAAAAAGGGGGGAAAG G GAGGGAAACAAAAGGAAAAGAGGAACCAAGGAGGGGGAAAA C GACGGAAAAGGGGGAAAAAGGCCGGGGAAAAAAAAAAAAAA AAGGAAGGGGCGGGCACCAAAAGGGGAGGGAAGGAACCGGAA C CAAAAAAAACCCCAAAAGGGAAAGAAAGGAACCCAAAGGAA AAAAAACAGGGAGGGGCCCCAAAAAAGGAGGGGGAAAAAAGG G GAAGGGGGGGGGGAAGAATGGGGGACAAAAAAAGGAAGAAC A A G G G A A GAAGGGAATAAAACAGGAAAACCGGGGCCAAAAAA AAGGAAGGAAAAGGGGAAGGGGGGGGAGAAAAGACCGGCCGG AACACAGGGGGAGGGGGAGGGGGGGGGGACAGGAAAAAGGAA G GAGAGAGAGGGAAGGGGGGAAAACCGGGGACAGAAACAAAA C CAAGGCCCCGGAGAACCAAGGGGGGAAGGGCAGGGAAGGAG AAAGAAGGGGAGGCGGAAGGAAGGGGGGCCAAGGAACCGGGG G GAAGGAAAAAGAGACGAAGGGAAAAAACCGGAACAGGCAGG

AAGGGGGGCAGGGGAAAACCGAGAAAAAGGAGAAGGAAACCC C C G G A A A A G G A A A A G G G GAGGGAAAAGGAGAAAA GACAGAAC AAAGCCGGAAGGCCGGAGACAAGGAAGGCCGGAAGGAAAAAA A A G GAC G G A A C CAA A G GAAACCGGGGGGCCGGAAAACAAAAA
 G G G GAAAACCAAAAGGAAAAAAGGAAAAGGAAGGAAAAAACC A A G A A A G G A A A A G A A GCCACGGCCAGGGGAATAAAAAAAGCC AGAAAGAGCCCCAGAGACGATAAGAAAACCAAAAGGCCGGGG AAAAAACCAGAAAAAGGGAACAAAGGGGAAGGGGAGGAAAGA AAAAGGGAGGAGGGGGGGGGGGAACAGGGAGGGGGGGAAAAA G G G GAA G GCCAAAACCAACCAAACCCGGCCAAGGAAAAAAAG
 G G A A A T G G G A C C G G G G G G G G A A G G G G A A A G A G C C A C G GAA C C G G G A A A C C G G A GAGGGAAGGAACCGGGGAAAAGBAAAAAAGAG A A G G G G G G A A G G G G G G A A A A A A G G A A A A G G G G A A A A G G G G A A AAACAAAGAAAAGAAAAACCAAAAAAAACCAAAAG GAAAAAA A A A A C CAACC G GAAAGGGGGAAGGGACCGGAACCGAGAATAG
 A A G GCAATAGGGGGGGGGAAGACCCCGGGGCCAACCGGTAGEG G G A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G G G G G G G A A G G A A A A G G A A$ G G G G GAACAAAGGGGAAAAAAGAGGGAAAAAAAGAAAGGGGA A A GAA A A A A A A A A GAACAAAGAAACCAAGGGGAA GAAC GAGG A A A A G G G G G G G G G G C C G G A A A A G G A A A G G G G G G G A A C C G G G G G G A A A A G G G G G A A A A A A G G A G G A G G GAAAAA A A A A G G A TAAA $A$ G G A A A A G G G G G G G G A A A G A GAACCAACCAGAAAGGGCCCCGG G G G GAA A G A A C C G GAGGGGGAAGGGGCCAAGAAAGGAGAAAA A A GAAAAAGGGGGGAAGGGGGGAAGGAACCAACAAGAAAAGG A GAA $A \operatorname{GGG} \operatorname{GA} A G G A A A A A A G G G G A A G A G A A A G A A A A G A A A C G G$
 TAGGAAAGAGCAAAAGGAGGAAAAAGAACAGAGGAGAACCGG G G A G A A G G A A GAGGCAAGAAAACCGACCAAAAAAAAAAACAC $C C G G A A G G G G A A G G G G T T G A A A A A A A G G G G C C G G A G C A G G G G$ G GAACGAAGGAGGGAAAAACAAAAAAGGGGACAAAGGACGBA
 G G G GCCGGAAAACCGAGGCCGGGGGGAACCAGGGGAGGAAGA G G G G C C G G A A G G G A G G G A G G G G C C A A G G A A C C A A G G G G A A G G AAAAGGAACCGGACCCAGAGGGAAGGGGCCCCCCGGGGAAGG AA $A G A A C C A A A A G G A A A A G G A A G G G G G G A A A A G G A A G G A G A G$ GAGGAATTGGGGCCGAGAAGGACGGACAAGAGCABAAAAAGB A A A A G GAAAA $A \operatorname{A} \operatorname{A} A A G G A A C G G G A G G G A A G G A A G G A A A G A A G G$ AAGGGAGAAACCGAAAGAGGGGAGACAGAAGGGGAAAAAGAG G G G G A A G G GAAAAACCGGGGAAGGAAAAGGGGAGGAAAGGAA A G GAGGCCAAGGGGAACCGGGGAAAGAAAGGAGGGGGAAAAA
 G G G A A G A A G GCC G G G G A A A A G G T T A A G G G G G G A A G G C C A A G G A A A A A A C C G G G G G GCCCCGGAACCGGGGAAAAGGG GAA G GAA A A A A A A G G G G C A A G G G G G G G G G G G C C A A G G G G G G G A A A G G A A AACACAGGGAAGGGAAAAGGGGGGGGAAGAAAGGCCAAAACC ATGGAGAAAAAAGGGGCCGGAAAAAAGGCCAAAACCGGGGCC G G G GAGGACCAGGAAGAAAAAAAAAAAAACGAAGCCAAGGAA G G G GCCGGAAGGGGGGGGAGAACCGAACAAGGAGAGGGAAGG C CAAGGAAAAGGAGGAGGAAAAAAAAGGGGCAAAGAAAAAAA $C \subset G G G G A A G G A A A A C C G G G G G G G A G G A A G G A A G A A A A A G G A A$ A A A G G G GAGGGGAAAACAGAAAAGGGCCAAAAAAGGCCGGGA GAGGAAAAAAAAGGGGGGAAGGCCAAAAAAAAAAGGGAAAGG CCGGAAGAACGAGGGAGAAGAAAAAAAAAATTGGGGAAAAAA AACCAAGGAAGAAAAATAAAAAAACCGAAGGGGAGGAAAAAA A A C C A A G G A A G G G G G G G G G G G G C C C C G G C C G G A A A A A A A A A A A ACCAACCAAAAAAGGGGCCCCAAGGCAGGAACCGGG

GGAAGAGGGCCAAAAAAAAGGGGGAGGAGGGAAAAGGAAAG

 A AAAGGAAAACCGGAAAGAGAGAAAAGGAAAAGGAAAACCCC A A A A A A G G A A $\mathcal{A} G G G G G G G G G G G G G G G C C G G G G G G C A A A G A A A$ A A G GCGCCGGGGAAAAAAGGGGACGGAAGGGGAGAAGAGAGG AAAGGGAAGGAAAAGGAAGGCCGGAACCAGGGAAAGGAAACC AACCAAGGCAAAGGAAGAGGAGGGGGGGAAGGAAAAAAAACC C C G G G G G G C C G GCCAGGGCCGGAAAAAAAAAAAAGAAAGGGG GAGGAAGGGGGGAAGGAAAAAAGGAAAACCAAAAGGGGAAAA T T G GAA $A \operatorname{GAAA} A T T C C T T A A G G G G A A G A G G G G G G A A A A A A G G$ A A A A G G G G G G A A A A G G A A G G A A G G G G A A C CTTAACCAAAAC C
 G G G G G GCCGGAAACGAGGGGAAGAAAGGGGAAAAGGGGAAAA GAGGCCGGGGAAAAAAAGAGGGAAAACCGGCCCCAAAAAAAA $C \subset C C A A G G A G A A G G A G G G A A A C G G G G G G C C A A A A G G G G A G A A$
 GAAGGAGGAAGGAACCGGAAGGAGGGGGGGAAGGGGAACCAA AAATAGGAAAGAAGAAAAAAAAAAGGAGAAAAAAGAAGAAGG G G G G G A A A G G A GAA $A \operatorname{G} G A A A A A C A A C A G G G G A A A A G G G G G G A G$ AAGGAAGGAAGGGGAGAATTAACCAACGGGAAGAAACAGAGG A A G G G GCCAGGAGAAAGGAAGGCCGGGGGGCCGGCCAAGGAA G GAAAAGGGGGGAACCGGGGAGGGGGAAAAAAAAGGAAGGAA G G G G A A G G G G G G G A G G G A G G A A A A $\mathcal{A} G G G A A G G G G A G G A G G A A$ G G G GAAAAGAAACCAACCGGAAGGCCGGAAAAGGGGGGAAAA G G A A G G G G A A G G G G A G G G G G A A G G G G G G G G C C A A G G G G A A G G A G G G G G G A G G G G G G G G A A A A G G G G G G G GAAAA A G A A C C A A G G G G A A G G T T G G G G C C G G G G A A A A G G G G G G C C A A G G A A G A G A A A G G G G A A A A G G G GAACCCAGAAAAAAAGGAAAAAACCGGAGAA CCGGCCGGAAAAGGAAGGGGCCGGGGGGAAGGCCCCAAAACC A A A A G G G G GA G G A A G G A A G G A A A A A A A A A GAA G GCC G G C C C C G GAACCGGGGACAAGGGGGGTAAACGAGGGAAGGGGGGCCAA
 G G G GCCAAGGGGGGCCGGAAAGAAACGGAAAACCAAAGAAAA C C GGCCAACCAACCGGAATAAAAGCCGAAAAAGGGGGGCGGG G G G G G G G G T T A A C C A A G G A G G G A G G G G G G G G G A G A A A A G G A T G GAAAGAAAAAGAAGGGGGGAAAAGGAAAAAAGGGGAAAACC G GAA $A$ A $\operatorname{A} A A A G A G G C C G G C A A A A A G A G A G G G A G G G G G A G G C C$
 A A G G G G G G A A G G A A G G A A G G G G A A A A A GAGAGAAAA A A T T G A AAAAGGGGGATTAGCCGGAAGAAGAGAACCGGGGGGATACGG A A A A G G A A GAAAGGAGAAGGGGGGAAGGGGAAAAAAAAAAAA G G G GAA A G G G G GCC G G G GAAAAAGAAGGGGGGGAGAGAACAA G G G G G GAAAAGCAGGAAAGGAAGGGGAAGGGGAAAAAAGGAA
 A ACCAGCAGGAGCCAAAGGACCGGGGAGAGAAGGCCGGGGGG G GAA $A \operatorname{G} G \mathrm{G} A A C C G G G G G G C C A A G G G G G G A G A A A G A A G G G G C C$ C CAA A GAAGGGGCCAGGGAAGGAGGAGGGGCAAGAAAAAGAA GAGAAGAAAGAACCGACCGGAAAGGGAAGAAACACAAAAAAC $A C G G A A A A G G G A G G G G G G A A G A G G A A A A G G A A A A A A G G A A A A$ A A A A G GAA A GACAAAGAAGGAAGGAAGGGGGGGGAACAAAGA G G G G G G A A A A G G G G G GAG G G G G C C G G G G G G G GCC C G C CAA A A G G A A A A A A G G G A G G G A G G A A G G A A C CAA A GAA G G C C G G A A A G AAGGAAAAGGAAAAGGAAAGGAGACCAGGGCCGGAAGGAAGG G GAAAAAAAAAGGGGGAAAAAAGAAAAACCAAAACCGGCAAA A A G GA G A A A A A A A A G GACGGGGAAAAAAGGGGGGGGAACAAA CAAA $A \operatorname{AGGGGA} G A G G G G C C A A A A A A A G G G G A G A G G G G A A A A C A$ A G G G A A G G A A A A A A C CAAC C G GAAAAGGAACCAAG GAAAAAA $C \subset G G A A G G A G G G A A C C G G A A G G A A G G G G G G C C C C G G G G G G A A$

AA $A \operatorname{GGGGGGGA} A A A A A A A G G C G A A G G A A C G C C A A G G G G G G A G$ CAAAAGGGAAGGAAGGAAAAGGGGGGAAAAAAAAGGGAAAGG G G G G GACCGAAGCCGAGAAAAAAGACCCGGCCCAGAAAAA G G AA $\operatorname{A} G A A A A G G A A G G G G G G A A G A G A A A C C G G G G G G G A A G G A A A$ A A A A A A CAAAGAGGAAAAGAAGCCAAGGGGGGGGGACACCGG G G A A A A A A A A A G G G A A A A A A A A GAAATTCCAAACAACCAAAG G G G G A A C C G G G A A A A A A A A A A A A A C GGGGGAAGGG GAAAC T T AAGAAAGGAAGGAAGGAAGGAAAAAGAGCCAAAAGAAAAAGG G G G GCCGGAAAAAGGGAGCCGGGAGGGGGGGGAAGAAAAGAA GAAGGAGGGGCAGGAAAAAGAAAGAAGGGGAAGAGGAAGAAA G G G G A A A A A A G G G G G G GAGGAAAGGAAAAAAGGGGGCAAAAC G GAGAACCAAGGGGAAGGCCGGGGAAAAAAAAAAGGGAAA G G G G G A A G G G G GCCAAGGCCGGAAAGGACAGGAAAAGAAAAAAA CCGGCAAAAAAGGAAAGAAGGAGGAAAAGGAAAAGGGGGGGG G G A A A A GAGAAGAGACAGAGCCAAGGCCGGAAAAGGCCCCGG G G G GAA $A \operatorname{GAA} G \operatorname{A} G \mathrm{G} A A A A G G G G A A G G A A A A A A A G G G G G A G G G$ GAGGATAGGGAAGAGGGGAAAACCAAAAGGGGAAAACCAAGAG G G G G A A A A A A A A A A A A G G G GAA $A \operatorname{GAAAGGGGGGGAGGGBAAAA}$ $G G A G A A A A G G A A A A C C G G G A A C A A A A A G G G G C C G G G G A A A A$ G GAAAACCAAAAAAGAAAGAAAGGGGCCGGAAAAGAGGACAAA G GAAAAGAGGGGGGGGAGGGGGGGCCCCGGGGAAGGAGAAGA G G G G G GAACCGGAAGGGGAAAGAAAGGAGGGGAACACAGAAG A A GAAAAAAAGGAAAAAGAAAAGGGGAAAAGGGAGGGGAGAA $C C G A A A A A A A G A G A C C G A A G G G A A G A G A A A G G C C C C T T A A G A$
 GACAAA $A$ A A G G GAA $A \operatorname{GA} A A A A A A A A A A G A G G A A A A G G A A T T C C$ ACGGGGAAAACCACGGCCGGGGGGAACCGGAAGGAAGGAGAA
 G GAGGGGGGGGGAAGGGGAAAAGGAAGGCCAGGGACAAGAAA $G G A G C C A A A G A A G G A A G A G A G G G G A G A G A G G G A A C A A G A A A G$ A A G GCAAACCACGGAAGGAAGGGGCCAACCAAGGGGAGGGGA G GAAGGCAAAAGGAGAAAGGGGAAGGGGAACAGGGGGGAAGA T TAACAAAAAAAGGAAAAGGCCAAAAAGAAAGAAGGGBAAAA G G G A A A A GCCCAGAGGAAGGGGCCGGCCGGGAGGCCAACCGG G G A A A A G G C C A A G G G A G G G G G G G G C C G G G G G G G A G G A G C A A A A G G GAAAACCAACCGGGGCCGGGGGGGAAAGGCCAGAGAGAA $A G C C G G G G A A A A A A G G A A G G G G G G G G A A G G G A G G G G G G G G G G$ A G GATTAAGGAACCGGGAAAAAAGAGACAGGGGGGAAAAGGG GAAAGGAAGGAAAAGGCCGGCCGGAAAAGGCCAAGGAACAAA
 CCGGAAAAAAAACCAAGGGGGGGGCCAAAGAGGGGGGGGGGG A A A A A A A $\mathcal{A} G G G A C G G G A A A G G G G G G G G G G G G G A A G G A A G A A A$ G G G GAA A G G GAAAGAGGGAAAAGGCAAAAAAAGGGAAAAAAA G G A A C G G G A A T T C C A A A A G G G G A A A A A GA G G G G G G A G A G G G G G GAAAAGGGGCCCAGACAGGGGAAGGAAGCAAGBAAGGAGAG A A G G A A G G G G G G G GCCC CA G GAA A GAA A G G GAAAA A GAA G GAA GGAAAACCGAGGAGCATTACAGCCAACAAAAGAGAACCAGAA G GAACCGGAAAGGGGGGAGAGAGAGGCCGGGGGGAAAAGAAA G GAAAAAGGAAGAGAGGAAAAAAAAAGGAAGGGGGGGGAACAC G G G G G G A A G G A A A A G GCCGAAGGGGAAAAAGGAAAA AAA A A A C G GAGAAGGAAAAGGGGAGAAGGAAAAAAGGAGGGGGGAAAAA G G A A A A A A G GAAG G G GCCGGC CAAA A A A A A A C C G G G GAA G G G G $G G A A A A G G A A G G G G A A A A A A A A G G G G A A A A A G A A G B A A A G G G$ G G G GAGACGGGGAAAAGGAAGGGGCACCGGAAAAGGGAGGGG G G GAGGCAGACCGGAAAACCAGAGGCGGAAAAGGAGAAGGAA AAGGGGAAAAGGACAACCAAAAAAAAAACCGGAAGGAACCAG AACGAAAGAAAAGGAAAAGGCCAACAGGGGCAAAAAGGAGAA G G G GAACCAGGAAGGGAGAGGGCCAAAAAAGGAAGGCCAAGA $A A C C G G G G A A G G G G C C A A A A G A A A A G G G G G G G A G G G G$

GGGGGAGGGGGAGACGGGGAAGGGGAGAGAGAAGGAAGGGG
 G G G G GAGGCCAACCAAGGAAGGGGAAGGCCGGGGAAAAGGGG GGAACCAGGGAAGGAAAAGGGGGGGGGGGACCAGCAAAGGGA GGAAGAGGGAAGGGCCAGAAAAAAAGCAGAGAGGAAGGAAGG AA G GAAAAGGAAGGGGAACCAAAAGGAAAAAAGGGAGGGGGG CACCAAAAAACAGGGGGGGGAAAATAAGGAGGGGGGGGTAGG A G G A TAA A A A G G G G G G A A G G G G GAGAAAAAAACCGGCAAAGG G G A A A ACCAGAAAAGGGAGGGGAAAAGCGGGGAGAGAGAAGA GGGGCAAAGGAAAAAAGAACCCGGGGAGAAAAAACCAAAGAC A A A A A GAAAAAAAAAACCGGCCGGGGGGGGGGAGAGGAGGCC GAGGAAAAAATTAAAGGGAAAAATAAGGAACCGGGGGGCCAA A A A A A G G G G A G G G G G G G G G G G G G G A A GAAA $\operatorname{A}$ G G G A A C C G G G G G GAAGGGGAAGGAAAAGGGAGGAAGGGGAGCAAGGAGAACAA CCGGAAACAAAGGGAGAAAACCAAAAGGAAAAGGGGCCGGGG G GAAAAAAGGAAAAGGGGAGAAGGAGAGGGGGAAGGTTCCGG G G G G G GAGGGGAAACAGAAAAGGGGGAAAAAGGGGAAGAAGG AC G GACAAAGGAAAAAGGAAGGAGAATAGGAGATGAGAAAAG A GAAGGGGAAGGCCGGAAAAAAAAGGGGGGGGAACAAAAAGG AAAAGGAAAAGGAAAAGGGAGGGACACCAGAGAAAACCGGAA GGAAGCGGGAAAGAGAAAAGAGAGGGGGAAAAGGCCGGAGAA A G G GAAAGAGGAGGAAGGCCCCGAATAGAAGGAAAAGGGGAA G GAACC G GAACCGGGGAAGGAAAAGGCCAAGGAAAAAACCCC GAGAAAGGGGGGGGAAGGGGGAGGGAAAAAAAAAAAGGAAAA G G A GAACC G GAGAGGGGGGGGGAAAGAAAAAAGGGGCCAAGA g GAAGGGGAAAGAAAAGGAGGGAAAAAACCGGAAGGAGGAGA AAAGGAGGAAGAGGAAAGCCAAGGGGACAAAGAAACGGGCAA G G A A G G G G G G A A A A G G G G G G G G G G C C A A G G G GAAA $\operatorname{A}$ G G G G G A G G G G GAGGGGGGGGGAAAAGAAGGAGAGCAAGGGGAAAGGAA GGCCGGGAAGCAGGAAGAGAAAGGAAAGAAAAGGGGAAAAGG G G G G G GAA $\operatorname{GACCATCCAGGGGGAAAAGAGAGGAAAAAAGGAA}$ GACAAGAGAAACAAAAGGAAAAGGAAGGGGAAGGAAGGCCAG AAAAGGAAAGAAGGCCAAAAGGCCCCCAGGGGGAAAGAGAGG A A A A A A A A A ACCGGAAAAGGAAAAAAGGAGGAAACCGGAGAA C C A A G A A A G G A GAAGGGGCCGGAGAAGAAGAACCGGGAAGAA G G A A G G G G G G G A A A GAAAGAGGACAAGGGGCGGGGGAAAAAC G G G GAA $\operatorname{GA} \mathrm{A}$ GAGAGGAAAGGAGAGAAGGAAAGGGAGAAAAAA t TACAGAAAAAAAAGGGGGAGGCAAAAAGGAGGGGGGAGGGA G GA G G G G G G G A A A GAGGGAAAAGGCCGAGGAAGGAGGAGGGG GATACCAAAAAAAAGGGGGAAACCGAACGAGGAGGGGGGGCC A A G G A A G G A A A GAAAAGGAAGAGGGGAAAACCGGCCGGAAAA A G G GAACCGGAAGGAAAAGGAGAGACAAAAACAGAGAGCCAG AAGAAAGGGGAAAAAAAGACGGGGAAAAAGAGACAAAACCAA GAAAAACAAACCAAACAAGGAACCGGCCGGAGAAGGAGAGGG GAGGGGCCACAAGGAAGGAACCAAGGAGAGGGAGAAGGAGAG A GAAAAGGAAAAAAAAGGGAAGGGGGCCGGGGGGGGCCAAGG
 G G G G G GAACCAAGGGAAAGGGGAAAGAAGGAAAAAAAAAACC GGAAAAAAGAAATTAGGGAACCCCGAAAAAAAAAAAAAGGAA AAAGGGGGGGAGGGGGCCGGAAAAAGAAGACACCGAGGAAAA A GCC C GAAAAGGGGGGGGGGAAGGGGAAGGAATTAAAGAACC G G A G G A G GAGGGAAGGGGGGGGGGGGAAAAGGAAGAAAAAAA G G G G G GCC G GAGACAGGAAAAAGGGGAAGGAAAAAACCCCGG G GCCGAGGGGAGGAAAAATTCCCCGGAAGGGGAAACTTGGGG G GAAGGAAAAAAAAGGAACCGGGGGGGGGGAAAAAAAAAAAA G G A A A A G G G G A A G G G G A A A G ACAGGGGAAAGGAAAAAAACAC AAAAAAGGGGAAAAAGAAAGAGGACAAAGAAAGAGACCCCAA A A G GAA $\operatorname{l}$ GAAGGAAAAACAAGGAAGGGCAGAAAAGGAGAGGG AAAAAGGAAGAAAAAAGACCAGAGAAACGGAAAACCCCAAAA

GGCCAAAAAAAAGGGAAAACGGGGAGGACCGAAAAAAAAAAG A A G GAGAAGGAAAGCCGGGAAAAAAAAGAGAACCGGAAGGCC A A A G G GAATTGGGGAAGGGGCCGGAAAGGGAAGGAAAAAAAA G G G GCCGAAAAGCAGGAGAGAAAAGGAAGGGAGAAACCCAAA G G G GAAAAAGGGCCGGGGGGAAAAAAAAGGGGCCCCGGAGCC A A G GCCAAAGGGCCAAGGGAAAAAGGGGAAAAAAGGAAGGAA GAGGGGGGAAAAAAAAGGAACCAAAAAAAAGGGGAGGAAAAG AAGGAAGGGGAACCAAAAGGAAAAGGCCAAAAGGGGAAAAAA AAAAGGCCGGAACCCCCCAACCGGAAGGGGTTAGGGCCGGGG G GAAACGGGGGGAAGGAAAAAAAAGGGGAAGGAAAAGGBGAA A A G G A A A A G G G G G G T T A A A A C C G G A A G G G G G G A A G G G G G G G A GAAGAGAAGGCCGGCCGGAAGGAGGGCCAAAAAGAGAATTGG G G G A A G G G GACCAAAAAAGGGGAACCCAAGCCAAGGGGAGAA A GAAAA $A \operatorname{ACC} C A A A A C C G G G G G G G G A A T T G G G G G G G G G G G G G G$ A A A A G GAAGGCCTTAAGGGGGGGGAAGGAAGGAAAAAAAAGG AAACAAGGAACCCCAAAAGAAAAAAAGAACAGGGAAAAGGGG A A G A A GAAAGGGCCAGGGCAAGAGCCGGAAAAGGAACC G GAA A A A A G G G G A A A A A G G G G GAAAAGGAAAAAAGGAA GAA GAAAA $G G C C A A A A A A A G G G A A G G A A G G G G A A G G G G A A G G G G G G G G G G$ G G A A A GA GAA $A \operatorname{GGGGGAAAAGAAAAGAGGACGGAGGGGAAAAC}$ $C C T T G G A A A G G G C C G A T T A A G G G G A A A A A G C A A G A C G G G G G G$ G GCCGGAGAAGGCAAACCAGAAAAAAAAACGGGGGGCCGGGG GAAAAACCAAAGGGAAGGCCAACCGGCCGGAGGAAAAAAAAG $G G A C A A A A A G G G A A A A G G G A A A A A G A G G G G C A G A G G A A A A A G$ G G G G G GAA $A \operatorname{G} \operatorname{A} A A A C A G A A A A G G G G G G C C G G A A G G A A G G A A G G$ AAGGAACCGGAAAGGGAAGGAAGGGGCCCCGGAAGGAAAACC AACAAAGGGAAAGGGGAAAAGGAACCAAGGAAAACCGBAAAA $G G C C A A G G A A G G A A A A C C C C G G A G A C G G A A A A A A A A A G A G A A$ C C C C G G G G G G G G G G G G A A A A G G A A GAG GAAA A G GAAC C $\mathcal{A} G G G$ G GAAGGGGGGAAAAGGAAAAGGCAGGAAGGAAAAAAAAAAGG G GAGGGAGAAAGAAAAAAGGGGAAAAAAGAACCAGGCCAAGBG G G G G A A A G A A G GCA $\mathcal{A} G G A G A A A G G A A C C A G A A G G G G A A C C G G$ G GACAAAAGGAAAAGGCCGGAACCAAAAGGGGGGGGCCAAAAA
 A A G G G A A A A A $\mathcal{A} G G G G G A A G G A A A A G G A A A G G G G G A A G G G G A G$ G G A A A A A CACAACCGGAAGGAAGGCCGAAATAAAGGGGAAAA AACCGGGGAAGAAACCCAAACACCGGACAAAAGGGAGGAGGG G GAAAAGGGGAACCCCGGCCGGAGAAAGGAAAGGGGCCAGAG G G A A ACAACCAAGGAAGAAAAAAAGGAACCACAAAAAAAABA G G A A C C G G A A G G A A G G G G A A G G A A G G A A A A $\mathcal{A} G G G A G G G G G G G$ $G G A A A G G G A G G G G G A A G G C A A A G G G G G G A A A A G G A G G G A G A A$ G GAA $A \operatorname{GACC} C A G C C G G C C G G A G A G G G A A G G G G A A A A A A G G G G$ C C G G A A A A G GAACCAAAAAGAACCCCGGGGAAAACCCCAACA GAAAGGCCGAAAAAGGGAAGGGAAAGAAGGGGGAGACCAGAAA G GAGGGAGAGGGAAAAAAAAAAGGAGAAGGAAAGGAAAAAGAG
 A A G G A A A A A A A A G G C C G GAA $A \operatorname{AGGGAAAAAAAGGAAGGGGAGGG}$ A G G G G G G G A G G G G G A G G G A A G G G G G A A G G A G G A A A A G G G G A A G G G G G G G G G GAAAAGAAAACAAGGAGGAAGCCAGAAAAACAG G GCCGGAAAAAGGGCCAAGGGGAAGGGACCGGGGGGAAAAGB C CAGAAGAAAGAGGAGGGGAGAAAAGCCAAAAAAGGGAAAGG A A G GAAAAAACCCCCCAGCCCACCGGGGGACCAAGGAGTTGG
 AAAAAAAAGGCAGGACAAGGGGGACCGGAAGGAAAACCAAGG A G G GAAAGACAGAGGAGGGAGGACAGGGCCAAGGGGGGAGAA C CAA GACCCCCCAACCAACACCAAAAGGAAAAGAAAGGAGAA AAGGGGCCGGGGGACCGGAAAAGGAAAGAGAGAGGGCAAAAA $C C G A A A G G A A C C A A A G A A G G A A A G G A C C A A C C C C G G A A A A G A$ GAGGGGGGGGGGAAACGGAAAAGGAGAAAAAAAAAGG

GAAGGCCAAAAGGAAGGAAAAGGCCGACCAAAAGGAAAAGG A A C C G G C C G G A A G G A A G G G G G G A A A A G G G G G G A A A A A A G G G G G G C C G G A A G G G A A A G G A G A A G G G G GAGGGGGAAGC CAA A A A A G GAGGGAAGAGGAAGGAAAGAAAAGGAAGGGAGAAAAAGAGA G GAGGGGGGGAGAACAGGGGAAGAACAAGGCCGGGGAAAACC C C A G G A A A G G G GAA A G G G G G A A A A A A G G A A A A G GAA G G C C A A G GAA A GAGAAGGAAAGAGAAAGGGAGAAAAAAGGCCAAAAAA $G G G A G G G A G G G G A G G G A A G G G G G G G G G G G G A A G G G G G G A A A A$
 AAGGGGGGAAGGGAGGAAGAAAAAAAGGCCGGAAGGGGAAGAG $C \subset G G A G G A A A A A A A G A A A G G G G G G C C G G C C C C A G A G A A G G A G$ G G A A G G G A A A C C G G G G G G G G A A C C C C A A G G A G G G A A G G C A G G G G A A G G A A A A G G G G G G A C G G G G G G A GCCGGGGGAAAAAA A A A
 A GCCAAAAGGGGGGGAGGGGGAGGAAAAAAGACAAAGGAGAA G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G G G A A A A A A A A G A G G G G G G A A G G G G G G$ G G A A A A A A A A A A G G G G A A G GAA A GCC G GCCAAGGCCAA G GCC A A G G G GAAAAAAAAGGGGGGAAAAGGAAAAAGGGGAAACCBG $G G A A A A G G A A G G G G C C G G G G A A G G C C C C A A G G C A G G A C G G G G$ C CAAAA $A$ A $A \operatorname{GGGGAAAA} \operatorname{A} G A A C C G G A A A A G G A G A A G G G G G G G G$ $C \subset A A A A G G A A A A G G G G A A G G G G A A A A G G G G A A A A A A G G G G C C$ G GAA A G G G G GCCGGGGAAAAGGGGAAGGGGAGCAAAGAAAAA A GAA $A \operatorname{G} \operatorname{A} \boldsymbol{A} A A A A A G G G G G G A A G G G G A A A A A A A A A A A G G A G G A A$ A A G G A A G G G G A G A A C G G G G G G G T T G G A A A G G G A A G G C C C C G G G G A A G G T T A A A A A A T TAACCGGGGAACCAAGGAAAAAAAA G G A A G G G G A A G GCCGGGGGGAAGGGGGGAAGGAAAACCGGCCGG A A G GAA A GAAAAGGGGAAAACCAAGGGGAAAAAAACCC GAAA C C A A A A G G A A G G G G G GCCAACCGGGGAAGGGGAAAAAAAAAA A A G G G G G G A A A A G G GAAGGAGGAGGGCCAACCAAAACCGAGG G G G GAAAAAAGGAAGGGGCCAGAAGGCCAAAAAAAAGGAAAA A G A A A G A A A A A A A A A G G G G G A A A A G G G G C C A G A A G G A A A A G G AAAACCAAGGGGGGGGGGTTGAGGGGGAATGGACGACAAAAA AAAAGGGGCCAAGGGAAAGGAGCCGAAAGGGGGAAGGAAAGG
 A A A A A A A A A A G G A A G G G GAACCAAGGGGAAGGGGCCGAAAAA $G G C C G G A A G G C C A A A A A A G G A A G G A G G G A A A A G A C C T T G G G A$ GGCCAAAAGGGGCCGGAAAGGGAAAAGGGAACAAAAGGAAGG $G G C C A G A G A G G A G G G A G G C C A A G G A A A A G A A A A A A A G G G G G A$ $G G C C C A A G G G A A A A G G G G G G A A G G A A G G C C G G A G G G C A A G A A$ $A G G G G G C A G G G A A G A A A G G G A A G G A A G G G A A A G G G G A A A A G B$ A GAGGAAAAGGGAAAAAACCGGAGAAAGGAGGGACCGACAAG CA $\operatorname{G} G \mathrm{G}$ GAAAACCAAAAGGGAGAGGGAAGAAAGGAAAAGGAGAA G G G GAACCGGGGAAGGAAAAGGGGGGAAGGGAAGAGACGAGG G G G G A C G G A GCA $\mathcal{A} G A A G G C C A A G G G G A A G G G G G G A A G A A C A A$ G GAAGGAAGGCCAAGGAAACAAACAGAAGGGGAGAAAACAAA C CAACCAGGGGGAAGACAAAAAGGGGAACCAAAAAAGGAGAA G G G G A A A A A A G GAC G GAGC C G GAAAAGGGGCCAAGGCC G GA A G G G G G GAAAAAGAAACAAAAAAGGAAGGGGCCAAAAGGAAGA G GAA $A \operatorname{GAA} G G A A C C G G A A G A C G C C A G G G A A A A A G G G G G G G G G$ G G A G A G G G G G G G A A G G G G A A G G A A A A A A G A G G G G A A G A G A A G GAGGGACAAGCCGGAAAAAAAAGGTTAGAAGAAGGGGAGGAT CACCCCAAGGAAGGAAAAGGAAAAGGAAGGCCAACCCCAAGG G G A $\mathcal{A} A A G G G G G G G G G G C C G G G G G G A A A A G G A A A G A A G A G A A A$ G G G G G A G G G G A A A A A A A A A G G G G A A G G C C G G C C G G G G G G G G G G A A G G G G G G G G A A T T A C A A G G G G A G A G G G G G G G G G G G G G A A A $C$ GAGGGGAAAAGGAAGACAAGGGGGGGGGCCCCAGGGGACAAA A GAA $A \operatorname{GCA} A A C C A A A G A A G G G A G A A A A A G G G G C C G G G B A A G G$ C C C A C C A A G G A A A A G G A A A A A C G G G GA GA G C C A A A G G G G G G G AAAAAAGGCCGGGGGGGAAAACGGAAGGGGCCAAGGGGGGAA

G G G G G G A A G G G G A A G G G G G G G G G G A A A A $\mathcal{A} G G G G G G A A A G G G G$ G GCCAAGGGGCCGGGGGGGGAGAGGGGGCAAGCCAAAAGGAG C CAA $A \operatorname{GAA} A A G G A A G G A A G G C C G G A A G G A A A A G G A A A A G G C C$ G G G GAAA A G G G GAAAAAAAGAAAAGGAAGGGGGGA GAA GAAA $C C G G A A G G A A G G A A A A T T G G G G A A G G G G G G A A G G G G A A G G A G$ GACCAAGAGGGGCCGGAGGGGGAAGGAACCGGGGCCGGGGAC
 GGGAAGAAAGGAAATTCCAAAAAAGGCCAGACCAGAGAAAGAG A G G G A A $\mathcal{A} G A G G G G G G G G G G G G G A A A A G G A A A A G G A A C A A A A A$ G G G G GAAAAAAGAAGGGAAAAGGGAGGGAAAGAGGACCAAGA AACCAACCAGGGAACCAGAGGGGGAACCAAAAGGGGGGGGAA G G A A C C A A A A A A A A A A GAGGCC GACAAGGGAAGAAAAA GGGG GAGGGGCCGGAGAGCCGGGGAACAAAAGGGTTAAAAAAGGAA G G G G A A G G G G A A G G A G A G G G G G A G G G A C G G A A C A G A A A G G G G G GAGAAAAAAGGGAGGGGCCGGTTGAAGAGAAGACAGGAAAA GAGGGGAAGGAAAAGGAAGGAAGGAAAAGGCCAAAAGGGGCC GGGGCCGGCCAAAAAAAAAGACCCAAAAAAAAAAGGGGAAAG A A A A A A A GCCGGGGGAAAAAAGAAGGGGGGGAGGCAGAAAGG G GAGGGGAAAAAGAAGCAGAACAAAAAAGGGGAGACAAGACC ACAAGGAAAAGAGGCCAAGGGGAAAAAAAAGGCCGGAAGAAA AAGGAAAAGGGGGGGGAAGGAAAAAAAAGGAAGGGGGGAAAA G G GAGGCCGGAAAAGGCCAAGGAACCAAAAAACCAAGGAAGG AAAAGGGGAAAACCGGAGAAGAAAGGAAAAAAGGAAAAAAAA G G G G G G G G G G A A A A A GAAAAAAGGAGAACCCCAACCAACCAA C CAA A G G GAAGGGAGGGGAGAAAAGGAAAAGGCCCCGGAAAA G G G G A A A A A A G GAA $A \operatorname{GGG} C \subset G G C C G G C C C C G G A A G G C A A A G G$ G GAAAA A GACAA $A$ A A G G G G G G T T G G A A A A A A A A G G G G G G G G G G
 GAA A A A G G G GAGAA $A \operatorname{AAA} A G G G G A A A A A A G G G G G A G G G G A G A A$ AAATCCAACCAAGGAGGGGGAAAAAGAAGGAAAAAAAAAAGG AAAAGGGGAACACAAAGGGGAACCAAAAAAAAAAAAGAAAGAG G GAACCAAAAAACACAAAGGAAGGAACCAAGGGGGAGGAAAA C CAACCGGACAAAGAGCCAAGAAAAAGGAAGGGGGAAGAACC GAAAAAGGAGGAAAGGGGCCGGCCGGGGGGGAGACAGGAAAG AAAGAAAGAAGGCCAAGGAAAAAAAAGAGGCAGGGGCCAGAA A A A A A A A A GGAAGGGGAACCAAGAGGAAAGAAGGAAAGAAAA
 G GAA $A \operatorname{GA} \operatorname{A} G A A G G G A G A A A A A A A G A G A A G G C C G G G G G A G G A A$ A A A A A A A A A GAGGACAGGAAAAGGGGAGAGAGAAAGGAAAA G AA G GACAGAGAACCGGAAAAGGCCACAACCAAAAGGAGGGAG AACGAACGGAGGGGGGGAAACCGAAAAAAACCGGAAAGGGCC GA $A$ A $\operatorname{A} G A A G G G G A G C A G G T T G G G G A G A G G G G G G G G G C A A A A A$ AAGGGGCCGGAAGGGGAAGGGGAAGGAGCCAGGGACGAAAGA
 A A A A A A G G A G G G G G G G G G C C A A A A C C A G G G CA $\mathcal{A} G G G G G A G C C$ A A A C G G G A A GCCGGTTGGAAAAGGGGAAGGGGAGAACCCCGG A A G A A A A G A A G G C C A A A A A A A G G G G G G G G G G G G G G G C C G G G A G G G GAAAAAAGGCCAAGGAAAAGGCCAAAAAAAAGGGGCAAA CACCGGAAGGAAAAAAAACCAAAGAAAAAAGGAGAAAAAAAA A A A A G G G G A G A A A A A A A A G G G G A A C C G G CAGGGGGGCCACAA G G G G G G G G G G A A A A A A A A C CAA A GAAGGGGAAAA GAAAAA G G CAAAAAAAGGAAGGGGAAAGAGAGAAAAGAGGGGAAGGAACC A A G G G GAA A G G A A A A A G G G A A G C CAAAAAAAAACCAAGGGGGG $C C G A A A G G G G A A A G C A G A G A A G C C G G A A A A A G G G G G G G A A C A$ C CAAAAGGCCGGCAAAAGAAAAACAACAGGCAAAGGGGGGGG A A G G A A T T G G G GCCCACAACGGGGGGAACCGGGGAGAAAAAA C C A A A A G G G G A A A A A A G G G G G G A A CCGGAGCCAAAAAAAA G G G G A A A G G G G G G A G G G G A A A A A A C C GAA GAACCAAC CAC G G C C G G T TAAAG A A G G G G A A A GAA A GAAAAGGGGGAGAGGC

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G G G GAA AGGAAGAGCCAAAAAGAAGGAAAAAAGAGGAAGAAA A A G G G G G G GA $\operatorname{G} G A A \operatorname{A} G C A A A A A A A A C C G G A A G G G G G G A A G G G G$ G G G G A A A A A G G G G G G GAA $A \operatorname{AGGGGA} G G G G A A A A G G G G A A C A G A$ G GAAAAAAGGGAAACCAAGGGGCAAACCGAGGGGGAGGGGCC ACAACCCAGGCCGGCCAATTGGGGGGGGAAAAAAGGGGAAAA
 G G A A A A G A A A G GAA $A \operatorname{GGGGGGCCAACCGAGGAAGGAAGAAAAA}$ AAAGAAAGAGAAAAAAAAAAGGGGAGAAAAGGCACCGGAGAA G G G G A G C C G G G G G G G G G G G G A A A A G G A A A A A A G G A A T TAA C C G G G G G G GAA $A \subset C A G A A A A A G A T G A A G G G A A G G G A G G G G A A G G$ GAACGGAGGGGGGGAAAACCGAAGGGGGAACCAGCAAAAAAA A G GAAAGGGGAACCAAAAGGCCGGGGAAGGAAAAAAAAGAAA G GAACCAAAAGGGGGGAAGGAAGGCAGAACGAGGAAAACAAA A A A A A A $\operatorname{A} G A A A G G G G G T T G G A A G G G G A A G G G G G G G G A A A A C C$ C G GAA A A G GA $A \operatorname{A} G \mathrm{G}$ GAAAAGAGGGGAACCAAGGAGGACCGGGA A A A A A A A A A A A A A A A A A A A A G G G G G GAAA GAA G G GA G GA G G G G G A A A A A A G G G GA G G GAACCCAAAGGAAAACCGGGAGAAAA G G GCCGAAAGGGGCCAAGAGGAAAAAAAAGAGAAAGAAAAAAA G G G G G GAAAGAAGGGGAAGGAAAAGGGAAAAAAAAAGGGGGG A A A A A A A GAACCGGCCAGAAGGGGAGAAAAAACCAAAGAAAA A GAGAAAAAAAGAAAAAAGGAAGGTTGAGGGGAGGGCCACAA G GAACAGGGGAAGGAAGGGGAAGGGGAAGGCCGGGGGAAAAA G G G G A A G GCCAAAAAAGGGGAAGGCCGGAAGGGGGAAAGAAA G G G A G A A $\mathcal{A} G G G G A A C A A A G G G G G G A A A A A A G G G G G B A A C C B G$
 A A GAA A A A G GCAGGAAGGGGAAGGAACCGGAACCGGGGGGGG ATAAAAGGAAAAGGAAGGGGGGCCAAGGGGAAGGAACAAAGA C CAA $A \operatorname{GGG} \operatorname{GAA} G \mathrm{G} G A A A A A G A A A C A A G G G G G A A A G G G G C C G G C C$ A A A A A GAA $A \operatorname{GAA} C A A G A A A A C C G A A A G G A A A G A A A A C C G G G G$ GAGCCCAAAAGGTTAACCAACCGGGGGGGGAAAAGGCCAAAA G G A A G G G A G G C C A A $\mathcal{A} G G G G G G G G G G G A A G G A A A A G B A A A A G G$ GAGGAAGGAAAAGGGGGGACGAAGGGCAAAGGCCGGAAGGGG A A A A G GAAAAGGGGAACCGGGGAAAAGAAACCAAAAGGGGAA G G G G G GAAAACCGGCAAAGGGGAGAAAAAAAAAAAAGGAAAG A GAACACCAAAAAAGGCCAAAAAACAACAAAAAAATAAATGG A A G A A A G A A A A A G A G G A A G G G G A A GAGGGGAAGAAAAAAGAA $C \subset G A G G G G A A G A C C G G C C A A G A A A G G C C A A G G G G G G A A A A G G$ GAAAGGGGGGAAGGTTAAGGGGCCGGCAGGACCCACAAAAAAA G G A A G G G G A G G G A A A A G G G GATACCCCAAAAACCCCAAGGGA G GACGGCCAGAGAAAGAAACAGCAAGGACCGGAAGAGEGAAC $G G T T A A G G G G A A G G G G G A G G A A A A A A G G C A G G G G C A G G A A G A$ $G G A A A A G A G G A A G G G G G G G A A G G A G G G G G A G G A A G G C C A B A A$
 ACTAACCAAAAACAAAGGAAAAAAAAGGGGAAAAAAGGGGGG
 G G A A A G A G A A G G G G A G A A G G G G A A G CA $A$ A A A G G G G G A G A G G G G A GAGTTAAAAGGAAAACCAAGGGGAGAAGGAAAAGGGAAAAG G G T T G GAAAAGAACGGGGCCAAAAGGAAAGGGGGGGAAAAGA G G G G G GAGGGGAGAAAAAGGGGGGGGAAGGAGGGAAAAAAAA G G G G G G G G G G A A G G A G G G A A A A A A G A G G A G A A A A G G C C G G G G $G G A A G G C C G A G G G G A A A A C C G A G G G G A A C C A A A C A A A A A A A A$ G GAATTAATTAACAAAAAGGGGAAAGAAGGGGGAA GAATTAA
 GAAACCAAGGGGAAAACCCCGGGGAAAAAAAAAAGGGGGGCC G GCCGAAAAAGGACAAAAAAAAGGGGAAAAAAAACCAAAAGG

 G G A G A C G G G G G G G G G G A A G A G G A A G GAGCAAGAAAAGAAAAA A A G G G GCCAAGGAAAGGGCCCCAAAAAAAAAAAAGGG

GCAGAGGGGCCCAGGGGAAAAGGGGAACCAACCCCAAGCAG A A G G A A A A GAA GAAAACCGGGGGGAAAAAAGAGGCAAAGAGG G GAAATAAAAGGGGAAGGAAGGAAGGGGGGAAAAGGACGAAA G G G G G GAAAAGGGGGGAAGGGGAAGAGGGAGGAGAAAAGGAA AAGGGGAAAAGGGGGAGGAAAAAACCAGAAAGCCAAGCACGG A ACCCCAAAAAAAACCAAGGAAAAAGGGAAGGCCAAAACAGG G GAAAAAAAGGGGGGGGAAGGGAAGGAACCAAAGTTGGGGGG AAAAGGGGAAGGGGCCAAGGCCAAGGAAAAAAAAGGAAGGAA A A G GAA G GCCAAGGGGGGAAAAGGCCAGAAAAGGAACCCCGG GGGGAAGGCCAGCGGGGGTAGAAAAAAACCAAGGGGGGCCGG G GAAAAGGGGAACCCCGGGGAAGGAAAAGGGGGGGGGGGGAA AAAAAAAACCCCAAGGGGGGAGAAGGGGGGAAGAGAAGAGGG AA A GGGAAGGAACCAAGAAGAGGAAGAGAAGGAGAAGGAAAA C C G GAGAACCTTGGAACAAAGAGGGCAAGGAGGAAGAGAAGG GGGGAACCAAGGGAAGATAAAGGGAGGAGAGCCGAAAAGGGG AA G GAA AAAAAAGGAGGGCAAAGGAAGGAAGGAAGGGGAAAG G G G G G G A ACCAAGGAGGGGGGGAAAAAGGAAAAAGGAACCGA G GCCTTGGGGGGAGGGAAGGAGAAAAAAAAGGAAAGAAAAAA A GCCAAAAAAGGGAGAGGAAGGGGGGAAGGGGAAGGAGAAGG AA G GAAAAGGAGAGAAAGCAGGCCGGAGGCGGGGAAAAAAGG GGAAGGCCGGAAAAGCGAAAAAGAGAAAAAGGAAGGGGAAGA T TAAGGAGGACCAAGGGGGGGGAAAAGGGGAAGGAACCAAAA G G A A A A G G A GCCGAAGAAAAAACCCACCGAGAAGAAGGCATT A GCAATGGGCAACCGGGGGGAAGAGGAAAGGAAAGGAAAAGA GAGGGAGGGGGAAGAAGGAAGGGGGGGGCAGGAACAAGCCAA G GAAGGAAGGGAGAAGAGGGAAGGGAAAGGGGGGAAGGGAAA GGGGAAAAAAGGAAGGTTAAAAAAGAGGAGGGAGAAGGAAGG A A G G G G A A G G A A G G A A A A G GAA G G G GAA G GAAAAGGCCGGGG G GCCGGGGGGGGAGGGGGGCGGAAAGGGGACCGGCCGAGGAA AGAACCCCCAAAGGAACCAAAAAACCAAGGGAAAGAAAGGAG G G G GAA $\operatorname{G}$ G G GAAGGGGCCAAGGAAAAAAGGGAGGGGAAAAAT GGAAGGGGGGAAGGGGGAAGAAAGGGAAGGGGAAAAAAAAGG G GAAAAAAGGAAACCAAGAAGGAAGAAACCCCAACCGGAAGA A GAAGGGGAAGGGGAGCAGGCCAACCGGGGGAAACAGGAAAA G G G G G GCCAAGGCCCCGGGGGGAAAAAACCCCGGACGGAAGG GAGAACGAAAAAGGGGGGGGAAAGAGGAGGGGGGAAAAAAAA GAGAGGAAAACCAAGGGGGACCGGGGGGATCGGAGAGGGGCC AAAACCGGGGGGAAAAGAGAAGAGAAGGAAAAGGGGAAAAAA AAGGGGAAGGACAAGGAAAAGGAAAAGGAAAAAGAAAAAAGG A GAAAGGAAACCGGGGCCGACCGGTTAAAAAAGGAAGGAACC G G G G G G A A AC G GAAAAAAAAGGAAATAAGAGGGGGGGACAAA G GCCAGAGGAGGGGAAAAGGGGAAAAGGCCAAAAAACCGGGG ACTAAAAAAAGGAAGGAAGGGGGGAAGGAAGGAAAAGAAACC AAAGGAGACCAGGGGAGGCCACGGGGGAGGGGAAGGGGAAGA G G G G GAGAAAAAGGGGAAAAGGAAGAGGCCACGGGGAGCCGG T TAAGGAAAGGAGGGGAACCGGGGAGGGCCGGAAAAAAGGAG A G G G G G A A A A A ACCAAGGGGAAGCAACCAAACCCGGAACCTA AAAGAAGGGAGAGGAAGGGGAATTAAAAGGGGGGAGGAGGGG GGCCGGGAGGAAAAGGGGAGGAGGAAGGGGGGAAGGAAGGAA A A G G G G G G A A G G G G G GAACC G GAC GAAAGGGGGGGAGGTTAA C C G GAAAAACGGAAGGGGCCGGGGGAGGCCGAGGAAGGAAGG A A A A A A A A T T A G A G G G G G A G A C G G A A G G G A A G G G G A A C G G A A A A A A A A A GACGGAAGGAAGGGGCCCAAAGGAAGGAGGGAAGG GGAAGGAAAAGGAAGGGAGAAAAAGGGAGGAACAGAGGAAAA C C GAAAAAAAGGGGGGAACCAAGGAAAAGGGGAAAAGACCAA A G A GAA G GAACCAAAAGGAAGGAAAAAAGGGGAAAAGAGGAA AAAAAACCAGAAGGAAGAAAAAGGGGAAAAAGAGGGGGCCGA G G G G G G G G G G G GAAA A A A G G GAGGAGGGGGAAAAAAGGCCAA AA A G G G G G G GAGGGGGAAGAAAGGGGGGAAAAAAGGAGGGAG

G GAGAAAAGGAGGCAGAAAAGGGGGGGGCCGGGGGGAGAGAC G GCCAGAA G G G GCC G A T T A A G A A C A A G G G G G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G GAGGGGAGGAAAGAAAAAA A A G C C C
 G G G GCCGAAACCCCGGGGGGCCGAGCGGGGGGGGGGAGGGGG A G G G A GCC G G A A G G G A G G G G A A A A A A G G C C A A A A A A G G G G G G G GCCAAAAGGAAGAAAGGTTGGAGGACCAAGGGGGGAGAACC GGAGAGCCCCAAAAGACAAAAGAGAAAAAGAAAAGGGGAACC TAAAAACCAAAAAAAAGGAAAAAACCGGAAGGAAAAGGAACC AAAAAAGGAACCGGAAAAAAGGAAAAGGAAAACCCCGGAAGG G GCCAAAAAAGGCCGGAAGGGGGGGGGGGGAAACGGCCAA$A A$
 AACCAACCGGGGGAGAAAAAAAAAGGAAGGAAAAGGAGCCGG CACCAAGGAAGGGGGGGGGGGGGGAAAAAAAAAACCAAAAAA G GAAAAAAAAGGAACCGGTTAAAAGGGGGGGGAAAAGGAAAA G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A C C A A G G A A G G A A A A G G A A A A G G G G G G G G$ A ACCAAAAAAGGAAAAAAAAGGGGGGGGAAAAGGGGAAAAAA G GCCAA $C$ G $C \subset G G A A A A G G A A G G C C C C G G G G G G G G G G A A G A G G$ $G G A A G G A A C C A A A A G G G A G G A A G G C C G G G G G G A A G G C C A G A A$ A A G G G G C C C C A A G G A A A A A A $\mathcal{A} G G G G G G G A A G G G G G G A A G A A A$ G G G GAAAAGGGGGGGGAAAAGGGGGGAAAAGGGGCCAAAAGG
 A A A A CCGGAAAAGGGGAAAAAAGAGGGGGGAAAAAAAAACGG TATTCCGGGACCGGGGAAAAGGAAGGAAATGGGGGGAAGGGG A A G G G G G G A A G GAGGGGGCCGGAAAAGAAAAAGAAAAAGGAA G G A A G G G G G G G G G G A A G G G G G G A A A A G G C C G A A G A A G G G A G G GAAAGGGAAAAACCGGAAAGGAAAGGAGGGGGAAAAAAAAAA $A G C C G G G G A A G A G G A A G G G G A A G G G G G G A G A C A A G A A G G G C A$ G G A A A A A A A A A A A A G G G GAAGGAAAAGGGGAAAA G GAAAA GAA AAAAAAGGAAGGAACCCCGGGGAAGAGGGGAAAAACGGAGAA G G G A G A G G G G G GCCAAAAGGGAGGCAAGAAAAAAAAGGAAGG $C \subset A A A A G G A C G G A A G G G G G G G G A G A A C C G G C A A A A A G G C C A A$ GAAGAAGGAACCAAAGAAAAGAGGAAAAGAAGGAACAAGAAA
 $G G A A A A A G G A G G C C G G A A A A A A A G G A A G A A A A G A G G G G A A G B$ $C \subset A G G G A A A G G A C C C C A A G G G G A A G G G G G G A A G G C C G G C A A A$ AAAAAAAAAAAAAACCGGAAAAGACAAGAAGGAGCCATGGGG A G G GAA A G G GAGGGAAGGCCGAAACCAGGAGGAATTAAAAAA G GAAGGAAAAAAGGAAAAGAAAAAGGGAGAGAAGGACCACAC AA GACCGAAAAAGGAAAAGGAAAAAAAAGGAACCGGGAAAAA A GAGAAAAAAGGCAGAGAAGAGACCCAAGGCGGGGAAAAAAG $G G A G A A G G G G G G A A G G A A A A C A G G G A A G A C A A A G G A G G C A A A$ $C C G G A A G G A G A G A A G G G G A A G A G G A A A A A A A G A A G G A A G A A A$ AAGGAAAAAGGACCAAGAAGAAGGCAAAAAGAAGAAAGACAA C CAAA GCCAAAGAAGAAAAAGAAAGGAGAAAGACGBACAGGG
 G A T TAA A GCGCCGGGGAAGACCGGGGAAAAGGGGGGGGGGAG A GCCGGGGCAAAAAAAGAGGAAGGAAGAAAGGGGAAGGAGAA G G G G G G A A G G A G G G G GCC G GAAAGCCGACCGGAATTGGCACC A A A A CACCGAAGGAGGAAAAAAAAGGGGGGGAGGGGGGGGGG C CAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A \mathrm{G} G \mathrm{G} C \subset A A A A G G C A G C A A A A A A A A A A A A C C G G$ AAGGCCCCGGAAGGAGAAAACCAGAAAAGAAAGAGGGAAACC A G A G G G A G A A $\mathcal{A} G A A G G G G G G A A G A G G G G A G G G A A A A C A A A A A$ A GAGAAAAAAAAGAGGAAAGGGAAGGGGAAGGAAGGAAAGAA G GAAAAGGAAAAGGGAGGGGAAGGGGAAGGGGGAGAGACAAA A GAGGGAAGAACGGGGGAAAGGAGAACCGAGAAGAGAGATGG A GAACCAAAAAAAAAGGGCGCAGGAAAAGGCAAGAGAAAA GA G G G GAGGGCCAAGGAACAAATTGGAAGGAAGAGGAAAAGGAA A A A A GAGGAAGGGGAGAACCAAAAAAAAAGCCAAGGC

C GAGGGGAAGAAACCGGGGGGAGGGAAAAAGGAAAAAAAAA $G G A A G G C C G G A A A G A G G G A A G G A A G G A A G G A A C C G G A A G G G G$
 A A A A A A A A G GAAGATTACCCGGAAAGAACCCAGGAAGGAACA A G G G GACAAAAAACAAAGGACAAAGAGAGGGGAAG GAAAAAA G GCCAGGAAAGGAAGGGAGGAGGAAAAGGGGGGAGGGGAGGG G GAG $A \operatorname{G} \operatorname{GA} A \mathrm{G} C A A A A A A A A A G G G A G G G G A A A G G A G G A A G A A A A G$ AAAAGGGGGGGGGGCCAAAAGGCCAAAAGGAGAGGGGGAAGA AAACAAGGGGGAAACCAAAAAAAGCCGGAAAAAAGGGAGACC G GTTAAAGAAAAAAAACAGGGGAAGGGAAACCAAGGGAAACA CACCAAACATAGAGAAAGAAGGAAACAAGGAAGGGGGGAGAA A G GACAGGGACCAAGGGGCCAAAAAAAAGGGGCCAAAAGGAA A A A A A A GAA $A G A A G A A A A A A A G A G A A C C G G G G G A A G G G A A A A$ A A A GAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{~A} A \mathrm{G} G A A A A A A G G A A A A G G G A C A A G A A A A G G$ GACCGGGAAAAAGAAAACGGGAAGAAGGAAAAAAGGGGGGCC GGCCAAAAGGAAGGAAGGGGAAAAGGAAGGAAAAAAAGAGAA A A A A G GA $\operatorname{A} G A C C G G A A G G G G G G A A A A A A C C A A G G G G G A G A A A$ A G G G G G G G A A G G G G A G A A G A C A G GCCAGGGGGGGTTA G G G A A AAAAAGAGAGAGAAGGGGGGAAGAAAGAGGCCGGAAAAAAAG G G G G G GAA $A \operatorname{GAAAAAGGAAAAGGAAGGGGAAAACAGAAAAAAA}$ A A A A A A A A A A A CAA A AAAGGAAGGGGAGGGAGAGGGGGAGAA $C \subset A A C C A A G G A A G G G G A A A A A A A A G G G G G G G G A A C C A G A G G G$ G GAAGGCCAAAAAAGGAACCAACCGGAAGGGGTTAAAAAAAA A A G G G A A A G GCCAAAAAAAAAAAGGAAAAGGAACAGGGGCCAA G GAA A GAA $A \operatorname{G} \operatorname{A} A A A A A A G G G G A A A A A A G G G G G G A A A A C C B G A A$
 G GAAAAAAAAAAGGGGGGAACCAAAAAACCCCAAAAAAGGGG A A $G \mathrm{G} A A A A A G G G G A A G G G G G G G G G G G G A A A A A A A A A A A A G G G G$ A A G GCCGGAGGGGGGGAGCCAAAACCGGGGGAAAGGGGGGCC GAGGGGAAAAAAAACCAAAGGGGGAAAAAAGAAGGGGGAGAA A A G G A A A A G G G A G G G G G A G G A A A C G G C A C C A A G G G G A A G G G G AAAAAAAAGGAAGGAAAAGGGGGGAGCCGGAAAAGGGGAGGG A A G G G G G G GAGGCCAAGGAGCAAAAAAACAGGAGGGAAGGAA G G A A G G A C G A G G G G G G G A A A A A A C G G G G G G A A G G G G A C C C A G G GCAGAAGAAAAAGGGAAAAAAGGGGAAGGAACCGGAGGGCC A A A A C C C C C C A A G GAAAA G GAAGGAAAAAAGGGGGGGGAAAA G GCCAA $C$ A A GAAAGGGAACCCCGGGGAAACGGGGGGGAAAAA A A G GAAAGGGAAAACAAGAGGAGGGGGAGGGAAGATCAAAGA A A G G A A A G A C G A G G G G C C G G G G G G A A A A G G G G A A G G A A A A $G$ G A A A A G GAAAAGGGGGGAAAGCCAACCGGGGAGAACAGAAAAA

 GAGAGCGGAGGGAAGGGAGGAAAAGAGGAGGGGGAAGGAGGG GACCGGAAGAAACCGGAGAAGGAAAGGGAACCAAGAAAGGGG A A G G G G A A A A A A G G G GCC $\mathcal{C} G G G G G G A G A G A C G G C C G G A C A A C X$ CAAAGGAAAAAAGAGGAAGGCCCCGGCCGGAAGGACGAAGAA G G G A A A G G G G G A G G G A A A G G G G A A A A A A G G A A A A A A G G G G G G A A A A A A G G A A G GAAAAAAGGAAAAGGGGAGAAAAAAAAAAGG AAAAAGAAGGGGAGGGCCGGCCGGAGCAAAAAAAGGAAAAAA G GAA A A C C G G G A A A G G G G C C A A G G G G G G A A G G G G G G A A A A A A G GAA A GCCTTGGCCCCGGCCGGAAGGGGAAAAGGGGGGAGAA G G G GAACCGGGGAAAAGGAAGGAAAAGGGGAACCGGGGAAAA A A G G G G G G A G A A G G A A G A A A G G A G A GCCCCAAAGGGGAACAA A A G G GAGGCCAAGGGAGAAAAAAGGGGAAGGGAGGGAAAGAA G G G GAACCAAAGGGAGGGAAAAGGGGCCACAAGAGAAGATAG A GAACCAAGGGGAAGGAAAAAGGAGGAAAGAACCAGAAAAAA G G C C G G G G G G G G A A A A G G A A A A A A $\mathcal{A} G A A A G G G G G T T A G T T G G$
 $C \subset G G G G A A C C G G G G A A G G G G G G G G G G G G A A G G A A A A G A A A G G$

GAAAGGAGAAGGGGAAGGGGGGAAAAAACCAAGGATAACCCA C C A G G A G G G G G A A A G G A A C CAA A GAAAA A A G G G GAAAAAA $A$ A A ACCAACCCCAAAAGGGGGGCCCCCCGAGGCGCAAAGACAAA G G A G G G A A G G G G G G G G G G G GACCC G GAAAAAAGAAAGGCCC C G GAATAGGAACCAGAGAAGAGAGGGGGGAAAACCGGAGAAAA
 G GAC $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A A G G A A A A G G A G G G G G G A G A A A A A G G G G$ AAGGAAAAAAGGCCCCGGCCGAAAAAAAAGAGAACCGGAGGG G $G \operatorname{G} G \mathrm{G} G A \operatorname{A} C \subset A A G G A G G G G G G G A A A A G G A A A A G G A A A A A A G G$ AGGGAAAACCGGAAAAAAGGAAAAAACCCCAAGGCCGGAACC G GCCGGGAAAAAGGAAGGCCGAAGAAGACAAGAGGAGGCCAA AAGGAGCCGACCCCCCGAAAAAGAGACCGGGGAACCAAGGCC A G G G C A G G T T A A $\mathcal{A} G G G G G A A A A G G A A A G A A G G G G G G C A A A G G$ $G G G A A A A A C C A A G G A G G G G G G G C C A A A A C C G A G G A A A A G G G G$ G GAAAAAGGGAAGGGGGGAAAAAAGAAAACAAGAACAGCAGA GAGGAGGGGGGGAAGGAAAACCAAGGCAAACCGGGGGAGGGG AACCCCGGCAAAGAAAAAAAAAGAGGAACCGGAAGGAGAAGA A G A G A A A A C C A A A GA G G GAGGGACTAA GAGAGAA G G G G G C C G A $G G A G A G A A A A G G A A G G A A G G A A G G G G C C G G A A A A G G G G G G G G$ A A G G G GAA A G G G G G A A A A G G G G G GCCCCAAAGGGAAAA G GAA G GAAGGGGGAAACCAAAAAAAAGAGGGACCAAGAGAAGAAAG AAGGAAAAAAGGGGAAAACCAAAAGGGAGGTAACAGAAAAGG A A T T A GAA A G A A G G G G A A A A G GAA A G A A G G G G A A A A A A A A A A A G A A A A C C G G G G C C A A A G G A A A A C GAAA A GAA $A$ A A A A A A G G G G

 ACAACCAAGGAAAAAAAGCCGAAAGGATCCAACCCAAAAACC AACCCCGGGAGGAACCGGAAAAGGGAGGAAGGGAAGAAGGAA G G A A A A A A G G G G G G G G G G G G G G A A A G CAC CAAACAG GAAAAAA G G G GAACCACGGAAAGGGGGAAGAGACCAAGGACTTGGAAAA A A G G A A G G A A G G G G A G G A A A C C A A G G G A A A G GCCA GA G A A G A G G G G A A G A G GAAGAGGCCAGAGGGAGGGGAGAACCCAAGAAA CCGGAAGGAAAGAAGGAAAAAACCCCGAAAGGGGAAAAAAGG
 GAGGCAAAGGAGGGGGGGCCAAAAGAGGCCAAGAAAAGAAGB $G G A A A A A A G G A A A G A G G G A G A A G G A A G A G G G A G G A G A A C G G G$ AACCAAAGAGAGGAAGAAAGCAGAGAGAAGGGGGGGAGGGGG G GAGAACAAACCAAAAGGAAAGAAAAGGGGAAGGGGGGGGGA A G G GCCGGAAGGCCGGACCCAAACAGCCGGCCAAAAAAGGGG GAGGGGCAGGAAGGCCGAGACCGGAGAAGGCCGAATGGAACC A G G G A GAAACAGGAAAGGGAGGCAAACCAACCCCGBAGCCCC C C G GCCAAAAAGCCGGAAAGGGGGGGAAAAGGAAAAAAGGAA
 A A G G G GCAAAGAAGAGAGAGAAAGAAGGGGAAAAAGAAGGGG G GAACCGGGGCCCAACAAAGCGAAAAGGAGAGGACGGAAGAA A A G GAA A G A CAGAACAGGGGAAGGGGGGCAGAGGAGGAAAAA G GCCACAAAAAAGGAATTGGGGGGGGGGAAGGGGGAAGCCBG AAAAAAGGGGAAAAAAGAAGAAAAGGGGAGTTGGGGAACCGA G GAAACAAAAAAACAAGAAGAAGGAAAAGGCCAAGAAAAAAA
 G G G GAA $A \operatorname{GCC} G G A A A C A G A G G G A G A A C C A A A G G G G G G G G G A A$ G G G G G G G G A A A CAAAA A T A A A A A A A G G C C G G G G G GAACC G G G G C C A A G A G G T T A A A A G G G G G G A A A A A A G G A A G G C C G G A G G G A A AAGGGGAAAAGAGAAAAAGGAAAAGGAGAAGGGGGGAAAAAA G G G GCCAAAAAAGGAAGGGGGGAAAATTAACCGGGAAGAGAA
 G GAAGGAAAAGGCCGAGGAAGGAAGGAACCAAGGAAGGAAAA A A G G A A G G A A A A A A G G G GA A G G G G G GA G GAAA A GA G G GAA A A A A A A A G G G G G G G G G A GCC $C G G G G G G A G A A A G A A G G G A G$

GGAGGAAAGAAGGAAAAGGAGGGAGGGAGAAAAGGGGAAAA A A A A C C G G G G G G G G A A G G A A A A A GAGGGCCGGAAAA A A G G G A G A A A A A A G A T TAA A A GAGAAGAGAGGGGGGGCCAAAAGAGAAA G GCCGGGGCCGGAACCAATTGGAAACAAGGAGAAAAAGAGGG AAGGAAGGAGAAAGACAAAAAAGAAAAGAGGGAGGGAAAAAA A A G G A G G GCCAA $C$ CAAA $A \operatorname{AGGGAAAAGGGGAAGGAAGGGGCAAA}$
 AGGGGGACGGAAGCAAAAAACCAAGAAAAAACGGGAAAAAAA G GCCAATTGGGGAGAAAGCCGGAAGGGGACAAGGGBAAGGGG $C C A A C C A A G G A G G A G A A A G G G G G G A A G G A A A A A G G A C C G G A A$ A GAA A A G GAACCAACCGGCAAAGAAAGGGGAAAAAAAGAGAA A A G G A A A A C C G GAACCAAAGAAGGGGACGAAAGGGBAAAA G G A A A A A A A $\operatorname{A} G A A A G G G G A A G G G G G G G G A A G A A A G A G G A A A A A G$ A A T A $\mathcal{A} G \operatorname{G} G A A G G G A G G G G G A A A A A G G A A G G A A G G G G G G G G G G$ GAGGAAAAAAAAGGAAAGGGGGAAAAGGAAAAAAGGAGAAGG $C G A A G G G G G G A A G G G G A G A A G A A A G G A G C C G A G G G G G G A G A A$
 A GCA C G G G GAAAGGATGGCCAAGGAACAAAAAGGAAGAAAAA G G G GAACACCGGAAGGAAGGAGAAGGCCGGAAAAGGAGACAA G G G G G G G G G G A G A G G G A A A G A G A A G A A A A C C C A A G G A A G G A G $G G T T A A G G G A A A G G G G C C G G A A G G A A A A A A G A A A G G G G G G A A$ G G G GAA $A$ G A A A GAA A A A A A A A A A GAAC CAA G G G GCCAA G G C C C C G G A A G G A A G G A A G G G G G G G G A G G G G G A G G G G G G G G G A A $\mathcal{G} A$ G G A A C C A G A G G A G G G A G G T A A A G G G A G G G A C C G G G G A A G G A A A A A G A G G G G G A A A A A A A A G GAAA A G G G G GAAGGCCGGAAAAAA G G GAGAGCAGGCAAAAAAGGAAAAGGAAGGAAGGAAAGGGGG G G G G G GAGAGGGGAGGAAGGAAGGCCAGGGAAAAGACAACAA A A G A G GCCCCGGAAGGTTAACCAGCCGGGGGGAAAAGGCAAA G GAC C G A A A A G G G G A A A A A G G A G G A G G G A A G A G A G A A G G G G G G G G G G GCCCAGGGGGGAAGGAAGGAAAACCGGGGAAAAAAAA G G A A A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{G} G \mathrm{G}$ A A A A A A A A A A A A A G C C A A C C T T G GAGGACCCCCCGGGGGGAAGGAAGGAAAAGAGGGGGGCCCC G G G GAAGGAAGGAAAAAGAAAAAAAAAAAAAAAAAAAAAAAG C C C C G G A A G G G G G G A A G G G G C A A A G GAA A G G GAA A G A A A A T T G GAAAACCGGGGAAAAAACCCCCCAAAAGGAAAAGGCCGGGG A A C C G G G G A A A A G G A A G G G G G G A A G G A A G G G G G A A A A A G G A A AAAAGGAACCCCGGCCGGTTAAGGAAAAGGCCGGGGAACCGG AAAAAAGAGGCCGGGGAAAAAAGGAGAAAAAAAGAAAAAAGA G G A A A A G G A A G G C C G G A C A A G G G A G G G A G G G G A A G G T T G G A A A A G G A A A A C C T T A A A A A A A A G G G G A G G G A A G G A A G G G G A G G G $G G C C G G A A C C A A G G A A G A A C G G G G G G G G C C G G G G A A A A G G A A$ A A A A G G A A A A A G A A A A GAGGAGAGGAAAAACCGAAAAAGGCC G GAAAAGACCAAAAAGAGAAAACCCCAAGGGGGGAAGGAGAA A G G GCCGGGAGGAGAAAAGGAAGGGGGGAACCGGGGAAAAAAA A A A A G G A A A A G G G G A ACCAAGGAACCAAAAGAAAAAAGCCCG C C A G G GA GCC G GAA A G GACCGGCCGGAAAAAACCAAGGCAAA C A A A A A A A GA G G A A A A GAGGAACCGGAGAAAAAAAAA GAACC G G G GAA $A \operatorname{GGGA} C G C A A G G A A C A A A G A G A A A A A A A C C A G G G G G$ AA $\operatorname{A} G \mathrm{G}$ GAAAAAGCCAAGGGGTAACAACCAAAACCGGGGGAAG
 $G G C C A A A A A A G G A A G G A G G G A G G G C C G G G G A A A A G G C C A A A A$ GGCCGGGGCCGGAGAACAAAGAAAGGAAAAGGAATTGGAGAA C C A A T T G G A A A A G G A A G G A G A A G G G G A G A A G G A A G G G G A A G G AAGGAAGGAAAACCGGGGAAAAGGAAGGGGAAGGAACCAGAC A A GAGAGGCCAAGGGAGAAAGAGAGGGGCCAAGGGGCCAAGA A A A A G G G G G G G G G G A C A A A A A A C C C C G G A A G G A A A A G G GA G G AAAGGGGGAAAAAAGGGGAAAAAACCAAGGAAGGAAGGCCAC GAGAGAGGGGGGGGAAAACCGGAAAAAAGGAAGGAACCAAAA G G G G A A G G A A G G G GAAAAAACCAAAGCGAAGAGGCCAAGGGG

G G G GCCGGGGGGAAAAAAGGCCGGGGGGGGAACCCCGAGGAA ACGAGAGGAACCGGAGAACCGGGAAAAGAGAGGGAAAAGGAA GAACAGGAAACAAAAAAAAAAAAAGGGGAAGGGGCCCCACAA G G G G A A A A G G G G G G G G G G A A G G G G C A G G A T C C G G G G C C G G G A G GAAA A G GAGAAGGAAGGGGAAAGGAGAAAGGGGGGGGAGAA
 G G A A A A G G G G A A C C A A G G G G G G G G G GCCAA $\mathcal{A} A C C G G G A G A G G$ AAAACCAAAAGAAAAAAAGGAACCCCAAGGAAGAAGGGAAAA G GAA $A \operatorname{GAAA} \mathrm{~A}$ GAGGAAAGAAAAAACCCCGGAAGGCCGAAAGA AAGGGGAAGAAAGAAAAGGGAAGGGGAAAAGGGGGGAAAAAA G G G GAA $A \operatorname{GGGC} C \subset C A A G G A A G A C C A G G A G G A A A A A A A A A G G G$ A A A G A GCCTTGGAAGGCAAGAAAAGGCCAACCGGAAGGAAGG A A A A A G G G A A G GAAAA A G G GAAAAAAACCAAAAAAAAGAAACC A A G G A A C C A A G GAGGGAAAACCAAACAAAGGGAAAAAAAACC $C \subset G G G G G G G G G G G G G G A A A A G A G A C G C C A C G G G G C C G G A A G A$ GACCAACCGGGAGAAAAAGGAAGGCAAAGAAGCCGAAAAAAG G GAA A G GAGACGAGAGAGAAAAAGAGGGGGCCGAAAAAAA G G A A A A G G A A A A G GCAAAGGAAGGGACAAAAAGGGGGGACGGAGAG GAGGGATAGAGGGGGGAACCAAGGAAGGGGCAAAAAAGAAGAG G GCCAAAAGGCCGGGGAAGGAAGGAAGAGGAAAACCAAAGAG GAAAAGAAAAGGAAGGAGAAAAAAAAAAAAAAGGAAAAGGAA A A A A A A A A A A A A A A C C GGAAAAGGCCAAAAGGCCAAGAAAAA G G G G C C G G A A G G A A A G G G G G G G A A G A G G G G A G C C A A G G G G C C A A A A C C A A A A A A C C A A G G G G A A A GCAA G GAAGCCCCGGGGA G G G A A G GAAA $A \operatorname{A} G \mathrm{GA} A \mathrm{G} G A A A C A G A A A A A A A A G G A C G G A A A G C C$ G G G G A A G G G A G A G G A A G G G G G A A A A A CAGGGGAA G GAAAC G G G GCCGGAACCGGTTTTGGTTCCGGAAAGTACCCAAAGGCACC G GCCGAAAGGAAAAAACCGAAAGAGGGGCCAAAAGAAAGGGG G G A A A A A G A A A A G G G G G G G A A G G G G G A A C C G G A GAGAAAAA $A$ AAGAAAACACCAGGAAGGAAGGGGCCAAGAAAAACCGGAGAA A A G G G A A A A G G A G G A A G A C A A A G G G G G G G A A A A A G G A A A G G G A G G GAAAAGGAGAACCCCACGGAAGAACAACCCCGGAAGGAG G G G GCCGGGGGGAAAAGACCACGGGGAGCCGGAAGACCAGAA A A G G A A G G A A G G G G G G A A G G A A G G A A G G G G A A A A C C G G G G G G
 G G A A G A A A G G G A G A A A C CAA A G G G C C A A A A A A A A A A G A G G G G G G G A A T G G G GAA $A \operatorname{GA} A A A A A A A G G G G G C C G G C C A A A A G A G G A A$ A A A A A A A A A T G GACAAAAGGGGGGAAAAGGAGAA GGGGCCGG A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A A C C G G A A G G A A A A G G G G G G A A A A G G G G$ G G G G G G G G G G A A G G G G G A A G G A A A $\mathcal{A} G A A A A G G G G A G A A G G B A$ A G GACCAACCGGGGAAAGGAGGAGAAGGAAGGGGGAAACGEG A T G A G G C A G G A A G G A A G G G G G G A A A A C A G G G G G A C C G G A G A $G$ AAAAGGCCCCGGCCGGAGGGAAAAGGGGAAGGCCAAGAAAAG
 G GCCCCAGGGGAGGACGGCCGAAAAACCGGGGAGAAGGAACB G GAA A GAA $A \operatorname{A} A G G G G G G A G A A C C G G A A G G G G A A A A G G A A A G G G$ G GAGGAAAAAGGGAAAAAAAAAAAGGAGGGAA GAAAAGGGGG G G G G A C G G A A A A G G A A G G G G A A G G G G G G A A G G A A G G C C A A G G G G A A A A A A A A C C G GAA $A \operatorname{GGGGGGGCCGGAACCGGAAAAAAGA}$ $G G A G A G G A A G G G A A G G G G G G A A A A G G G A G G G G G G A A G G A G A C$ T TAA A GAA $A \operatorname{GA} A A A A A A A A A A G G A A G G G G G G G G G G G G C C A A G A$ G GAAA $A \subset C G G G G C C G A C G C C G G G G G G A A A A A A G G G G C C G G G G$ C C A A G G G A A A G G G G C C A C G G G A G G G G A G A G A A A G A A A G G G A A GAAACCGGAAACAAAAGGGAAACCCCGGAGAGCCAGAGGGGG G GAGCCAAAAAAAACCAAGGAAAAGGAGAAAGGGAAGAAAAA GAAAGGAAGAGAGGAAGGAAGGGAGGCCGGAAAAGGCCAAAG
 GAAAAAAAAGGGGGAAGGGGAAGGGGAAGGGGAAAAAAAACC A A G GAAGAAAAAGGGAGGAAAAGGAACCCCAAAAGGG

GCCGGAGCCCCAGAAAAAAAAAAGGAAGGGGAAGGAAAACC A A A A A A A A A A A A G GAGAGAAAAGGGACCAAAAGGAGCAGGAA G GAAGGCCAAAGAGGGGGGGCGAAAACCGAAAGGAAGAAAAA G GAAAACCGGAGAAGGACAAAAAAGGAACCGGAAAAAGACAT GCAAGAAAAAGGGGGGCCAAAAGGAGAAGGGGAAGGCCCCCC G GAA A G G G A A C C G G G G A A G G GAGGACAAAGAAGGACGAAAAA
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 G GAAACCCAACCAAAAAAGGAACCAAGGGGGGCCGEAAGGGG
 A GCAAAAATTCCGGGGGGAAAAAAGGAAGGAAGGAACAGGAG GGCAAGGGGGAAAGCAGCCCGAAAAAGAGGGGAAGAAAAAGB GACCAAAAAAGGAAGGAAGGGGGGAAAAAAAACCAAAAAAGG A A G G A A A A A A G G G GAAGGACGAGGAAGGAAAAGGAAAAAAGC GAGGGGGGAACCAAAAGGGGAAAAAACCGGAAAAAAGGCCCC AAGGCCGGAAGGGGCCAAGGCCGGAAAAAAAAAAGGCCBGAA G GAACCCCAAAAGGAAGGAAAAGGGGAAGGAAAAAAGGGGGG G G G GAGGAGAGAGGAAAGCCCCGGGGGGGGGGGGAAGGGGAC TAAA A A A A G G CA $A \operatorname{A} G A A A A G G G G A A A A G G G G A G G A G A A A A A G G$ C CA $A$ A A $\mathcal{A} G A A G G G G G G C A G G G G A G C A A G A A G G G G G G G A A G G G$ G G C C A A G G G G A A A A C A GAG GAA A A A GAAGGGGA GAAAACCGG G GAA A GAAGGAAGAAGAAAAGGAAAGGAAAAAAAAAGGGAGA GAGGAAGAGGAAAAAAGGGGGGGGGAACACAAGAGGAAAGAA G GAA $A \operatorname{GAAAAACCAAAGAAGGCAGGAAAAAAAAGGGGGGGGGG}$ G G G G A A C C G GCC G G G G G G A A A C G G A A A A GAGGCCGGCCCC GA A GAAGCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGAAAACC A A C C G G C C A A G G G G G G A A A A G G C C A A G G G A A GCC G G G G A A C C $C \subset A A G G C C A A G G G G G G G G G G C C G G A A G G G G G G A A G G A A A A G G$ G GAA A G G G A A G GCCAAGGAAAAGGGGGGAAAAAACCGGTTAA G G G G A A A A C A A G G G C C G G G G C C A G G G G G C A G G C A G G A A A A A $G$ G GAA A GCCGGAAGGAAGGGGAAGAAAAAGGCCGGGAAAAA G G C C G G C C A A A A A A G G G G A G G G G G G G A A G GAA A G G G G GAAAA C C G GAGAAGGAAAGAACAAGAACCCCAAGGAAGGGAGGGGEGAA $C \subset A G A A G G G G G G G A G G A A A G C A A G G G A A C C G G C C G G G G G G G G$ C C A G A A G G G G G G G G G G A A G G A A A A G GAGCCAGGGGGAAAAAA A A A A A A A A $\mathcal{A} G G G A G A A A G G G G A A G A G G G G G G G A A G G A A A A A A$ A GAA $A \operatorname{GCCCCCCGGGGAAAAAGGGGGAAAAAAAAGGGGAGGG}$ G GAC G G A A C C A A A A $\mathcal{A} A G G A G C A G G G A G G G G G G G G A A G B A A G G$ G GAAAGCCGAGAAAAAAAGGGGAAAAAAGGGGAGAGAAAAGG G G GAGGAGAAGGGGGGAAAAGGAGGGGAGGAAAACCAAGGAC $G G A A G G A A A A A G G G G G G G A A G G G G A A G G G G A A G G G G G G A G A A$

 C C G G G G G GAA $A \operatorname{GCC} C A C C A A A A A G G A A A T T G G A A G G G G G A A A$ AA $\operatorname{A} G A A G G A C A G G G A C G G G G A A A A A A C C A A A A A A G G G A C G C A$ A A G A A GCCAGGGGGCCGGAAAAGGAAAAAAAAGGAGAAAA GA GCGGGGACGAGGGGGGAAAAAAAACCAAGGAAAGAAAAGAAA GAGGGGGAGAAAAACCAGGGCCGGGGAAAAGGGACAAABGAA A A G GCCAGCCAAAGAAAACCGGGGAGGAGGGAAAGGGAAAAG $C \subset G A A A C C A A A G A A A G G A A A A A A A A G A A A A G A A A G G C C C C C C$ GACCAAGGCCGGAAAAAAGGGGAGCCAACCGGAAGGGGAAGG GACCGGAAGGCCAAAAGGGGCCAAGGAAAACCGGAACCAAGAG G GAA $A \operatorname{GAA} A G G G G G C C G G A A G G G G C C A A G G A A G G G G G G C C G G$ A A G A C A G G G G G G G G G G G G A A A A A A G GAA A C C G G A A G G C C G G A A $C C G G A A A A G G G G A A A A C C C C A G G G A A A A C C A A A A G G G G G G G G$

A A A A A A A A G GA A G GCCGGGGAAAAGGGGAAAAGGCCGGGGGG
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 G G G G A A A A A A A A G G G G A G G G A A A A $\mathcal{A} G G G G G G G A G G G G G G G G G$ A A A G A G A A G G G GAGGGGGGGAAAAACAAGGAAGGGGAACAAA G GAGAGAAGAAAAGAAGGAAGGGGGGAAGGAAAAAAAAAACC A A G GAA A G G G G GCCGGGGGGCCAAAAAAAAAAGAAAGGAGCC A A A A GAGAGGAAAAAGAGGGAAAAAAGGGGAGAAAAA GAGAAC G G A A A A A A G G G GA $A \operatorname{GGG} G A A A A A A G A G A G G G G G G G A A A A A A C C$ GAGGGAAGGGCAAGAGAAAGAGAAAAGGGGGACCGGAACCGG AAAAAAGGAAGGGGAAGGGGAAAAAACCAAAAAAAAGGGGGG AAGGCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAAGAA
 A A A A G G A A G G G GCCAAGGGGGGAAAAGGAAGGGGGGAACAAA AAGGCCGGGAACAGCCGGCCAGGAAGCAGAGAGAAAGGAGGA C CAAAAAGAAGGCACCGGGGCCGGGAAAAAAGCCGAAAAGGG $C A G G G G A A C C G G G G G G G G G G A A C C G G G G G G G A C C C C C G G G G G$ GACCGGAGAAAGGAAAGAGGCCAAAACCGGAAAAAGGAAAAA A A A G G GA $\operatorname{A} G \mathrm{G}$ GAAGGAAGGGGAAGGAAGGCCAAGGGAAAAACC GAGGAAGGAAAGAGGAGGAAAAGAGGGGGGGAGGGACAAAAA A A A A A A G G G G A A G G G G A A G G A A A A A A G GAAAA A GAA G G C C C C AACAGGAGGGAACCGAGGAGGGGACAGAGGAAAAAAAAGGGG
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 A A A A A A A A G G A A A A C CAA $A \operatorname{GGGGGAAAAAAACCAACCAAGGGG}$ G G G GAACCGGAACCAAAAGGGGGGAAGGGGGGGAGGAAAAGG A A C C G G G G G G G GCC G G A A GAGAGGGACACCGGAACCACAAAA C C A A G G G G A G G G G A G G T T G G A A G G A G G G A A G G A A G G G G G G G G G GAA A G G G A A G G G G G G G A A G C C G G A A G G A A A A G G A A G G G G A A A G A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A A A A G G G G A A G G A A G G A A A A A A G G G G$ G GAAACCCAACCGGGGAAAAGGAACCAATTAAAAAAGGGGAA $C \subset A A A A G G G G G G A A C C A A A A G G G G A A G G G G G G G G G G G G G G C C$ A A A A G GCCAAGGAAAAGGAAAAAAGGAACCAAGGAAGAGGCA G G G G A A A A A A A A G GAAAAAAAACCCCCCCCAAACAAAAGGAG
 A A G G G G A A C C C C G G G G G G A A A A G G G G G G T T A A G G C A A A A A A A G GAGCCCCAGGGAAGGAAAAGAAAAACCGGGGAGAAGGAGGG G GAACCCCGGACGGCCAAAAAAAAGGAAGGAAGAGAAAGGAG A A A A G G G G A A G A G G A A A A GAA A A G G G CAGGAAAGAA A A A CAA A
 A A G G A A G G G G G G A A A A A $\mathcal{A} G G G G A A G A A A G G A A A C A A G G G G G G$ G GAA A G G G A GAAGGAAAAAAGGGGAAGGCCGCAAAGCAAAGA G GCCGAGGCAAAAAGAGGGGCAAAAACACCAGGGGGGGGGGG A A A A G G A A $\mathcal{A} G G G G A A A G G G G A A A A G G G G A G G G A A A A G G G G G G$ G G A A G G G G A A G G C A G G A G G G G G A G A G G G A C C C A A G G G G G G A G
 $A G G G G A C C C C G G A A G G A G A A G A A G A A G G G A G G G G G G G G A A G G$ ACGGAAGGAGAGGAAAGGAGCCAAAAAACCCCAACCAACCAA G G GAAAAAAAGAAAAAAGCGGGAAAAAAAAGGAAAAGAAAAA AAACCCGGCCGGAAAAAAAAAAAAAAAAGAGGGGGGTTGGGG A A G G G A C A A A G G G G G G G GAAAA A GAAAAACCAAAGAGGAACAA G GAA A GAA $A \operatorname{AGGGC} C A A G G G G A A A A G G A A A T C A A G G G G G A A C A$ $A G A A A C A A G G A A A A G G G G A C A G G G A A G G A A G G G G A A A$

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G G G GCCGGAAAGGGAAAAGGGGGGAAGGCCGGGGAAGGGGCC A A G A A A A A A A A A G GCCAAGGACGGAAAAAAAAAAGGGGAACC G G G G G GC C G G A A A G G G G G G A A G C C A C G A G G G G G G A G G G G G G G G G GAGGAAGGCCGAAAAACCAAAAAGAAAGGGAAAACAAAAA GAAAAGAGAAAAGAGGAAGGTAGACAGGGGGGGACCAAGAGG A A G G G A A A GAAAAAAAGGGGAAAAGGCCGGAAAAGGGGAAGG A A C C A A A G G G G GAA $A \operatorname{GGG} \operatorname{GA} A G G G A G G A A A G A G A A A A A A G G A G$ $G G A A G G A A C C A A C C G G G G A A G G C C G G A A A A A A A G A G G G C C A A$ AA $A \operatorname{GGG} G A G G A A A A A G A G G G G G A A C C G G A A G G G G G G A A G G C C$ AGAACCAAAAGGGGGGGGGGGGAACACCGCAACAGAAGAAGG G GAGAAGGGACAAAGGGAGGAAGAGGAAAACCAAAAAGAGAA A GAAAGACAACCCCAAGGGGGGGGGGAAGGAGAGAGAAAGCC A G G GAGAAAACCAGGGGAGAAAAAAAAAAAAAGGGGAAAAAA A A A A A A A A A ACCGGCCCCGGGGAAGGGGAAAAAAGGCCAACC G GAAGGGAAAAACAAAAACAAAGGGAAGAACCAAAGAAAAGG GAGGAAAGAGACAAGGGGGGAGGGGGAGGGGGGGAAGAAAAA AACCCCGGCCGGAAGGAAGGGGCCAATTGGAAGGGGCCAAGG
 AAAACCGGCCAAAGAAAAGGGGGGAAAAAAGACCAAGAAAGG G G G GAACC G GAACCCCGGGGCXAAGGGGGGGCCGGAAAAGG G GAAAAAACCGGAAAAAAAAAAGGGGAACCGGGGAAAAAAAA AAAAGGAAAAAACCCCGGGGAAGGCCCCAGAAGGAAGGAAAA G G G G A G G A A G G G A A A $\mathcal{A} G G G G A A A G A A A G G G G G G C C A A A A B A$
 G G G G G GAA $A \operatorname{GGGGGGAACAAAAAGGGGAAAACCAATXGAGGCC}$ AAAAGGAGGAAGCCGGAAGGGGAAGGAACCGGGGAGCCGGGG CAAACAAACCCCAAAAAAAGGGCCAGAAGGCCCCCCCCGGAAB AAGAGGAACCAGAAAGGGAAAAAAAGAAGGAACCGGGGAAAA A A G G A A A A G G G G A A A A A A A A C C C CAAGGGGGGCC GGGAAACA G G A A A A G A GACCGGGGGAAAGAGGGGAAGGCCGGGGAATTAA
 G G G GAGAAAAGAGGCCAGGGACCCGGGAGGAAGGGAGGGAAA T TAA $A \operatorname{ACC} C G A G G A A G G G G G G G G G G G A G A A A A C A G G A A G G G G$ $G G C C A G G G A A G G A A G G A A G A G G A A A G G G A G G A G C G A G G G G G A$ G G G GCCAGAAAAGGACGGAAGGGGGGGAGGTTGGAGGGAGAA A ACAGGGAAAAAGGAGAACCAAGGGGGGCCCCCAAGAAAAGA GGCAAACCAAAACCAAAAGGGGGGAAGGCCGGGGGGAACCBG GAACAACCGGGGAAAACCAAAAGGAAAAGAAAGGGGAGAAGAG G GCAGGCCCACCAAAAGGGGGGAAAAAAAGCAGAAAACGGCC
 GAAAGGAAGGGGGGAGGGGAAAAAAAGGAAAACCGGAABGAA A A A A A G A G TAAA A G A G G G C C G G A A G G G G C C A G C C G G A G G G G G A A G G G G G GAACCAGGGAGGGGGAGGGAAGAAAGATTGAACGG A A A G A A G G G G G G A C G G A A G G A A G G GAGGGGGGAAAAGACAAA CA $A \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGGGGAAGAAGGACAAAAAACCGGGGAAAAAA G G G G C A G G G G A A A A A A A GCC G G G G G G G G C C G G A G G A A A A A G A $G G C C A A G G G G C C G G A G A G A A A A A A A G A A A A A A G G G G G G A G A A$ ACAGAAGAAGAACAGGGGAAGGGGAAACGAAGAAGAGGGGAA
 GA $A \operatorname{A} A G G G G G A A G G G G A A A A A A G G G A G G G G G G G G G G A G C A A A$ A A A A G GAAACAAGAGGCCGGAAGAGGAAGGAAAAAAGGTTAG GAGGAAGGGGCCAGGGGGCCAGGGAAGGCAAAGGAAGGAABG AAAAAACCCCGGGGGGGGAAAACCAAAAGGAAGGAAAAGGGG AAAGGGAAAAGGCCAGAAAAAAACACAAGGAAACAGCCAGCA G GAAAAGAGGGGAAAAGGGGGGGGAACCAAAGAAAGAAGGAA G GAAGGAAAAAAAGACAGGGAGAAGGAACCGGGGAAAAAGGG
 A A G G A A T T G G G A A A A A G G A A A A C CAAAAAA A GAA G G G GAA G G $G G A A A A G G G G G G A A G G A A G G C C A A A A A A A A G G G G C C G$
$G C C A A A A G G A A G G A A A A A A A A G G A A G G A A G A C C C C A A C C B A$ $G C A A C C A A G G G G A A T T A A A C G G G G A G A A A A A A G A G A G G G G C A$ A G G G G G GAAACCGGGGAACCAAGGAACCGGAAAAGACCBGAA $C \subset G A G G A A G G C C A A C C C C G G A A G G A A G G G A A A A A G G A A A A A A$ G GAAAAAACCGGGGGGGAAGAAAAGGGGACCAGGAAAA GAAA A A G A A A A A G G A A C C G G G A A A G GCC G G A A C C G GAGG GAA G G A A G G G G A A G G A A G G G A G G A A G A G G G G A A A A GACC G GAAAA A A G G GAGGCCAAGGGAAGAAAAGGAAAAAAAAGGGGGGAAGAAAAA A A G G A A G G G GAACCAAAAAAGGAAGGAAAAAAAAGGGGCGAA G G G G G G G G G GAAGGAAGGGGCCGAAAAAAAAACCAAAAAAAA
 A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G G G G G G G C C C C G G A A C C A A A A$ C CAAAAAAGGGGAAGGAGCCAAGGAAGGGGAGGGAAAGAGAA G G G G G G G G A A G GAAACCCCGGGGAAGGGGAAAAGGGGGGACAA A A G G G A A A A GAAAGCACCGGGGAGGGGGAAGGCCGGAAAAAA AAAAAAAGGGGACCGGGGCAGGAAGGAAGGGGAAGGGGGAAA G GAAAACCAAAAAAGGGGGGGGAAAAGGGGAAAAGGGGAAAA AA A GAAGGGGGGAAAGAAAGAAAGGAAAACAACCGGGGAAAAA ACAAGGGGAAGGGAGGGGAAAAAAGGAGCAGAGCAAGGGAAA
 AGAAAAGGCCAAGAGGAGGGACAGGGAGAGGAGGAAAAGAAC $A C C C G G G G G G A G G G A G G A G G C C A A G G G G C C G G G G A G A G A A A A$ G G G G G GA $\operatorname{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAAGGGGAACAAGGGGGAAAAGGAGAA G G G G G G G G G G A G A G C A GAACC CAAAAGAGGGGGAAAACCGGGG G G G GACACCAAAAAAAAACCGGACAAAAGGGGAAAAGGAGAG $C \subset G G G G G G A G A A C C G G C A A A C C G G G G C C G A A A A A G G G G T T G G$ G G GAGGCCGGGGACACGGAAAAGGCCAAAAGAGACCGGGGGG GGCCAAAAAAGAGGGGGGAAGAAAAACCAAAAGGGAAAGGGG
 A G G A A G A C G A G G A A G G G G A A G G G G A A C C A A G G G G G G A A G A A G G G A A C C A A A G G GAA $A \operatorname{G} G A A G G G G A A A A A A A C G A A A G G G G A A A A$ AAAAAACCAACCCCGGAAAAGGGGGGCCGGCCAAAAGGGGAC A ACCAAAAGGGAGACCGGGGACAAGGAACCAGAAAAACAAAA C C A GAGGAAAGGGGAAGGGGAAGGAAGGAAAAGGGGGGAGAA G G A A A A G G G A G G A G A A A A G G G G G G A A A A A A G G G G G G C A A A G G G GAGAAAAAGACAAGGCCAAGGAACCAACCAGGGAGAAAAAA A A G G G G GAAAGGAGAGGGAAAAGGAAAAGGAAAAGGAGCAAA A A A A A A A G G GACA G G GAAA GGGTTAAAAAAAACCAAGGGGGG G G G G A A G A G G G G G G A A A A A A A G G G G G G CA G G A A G G A A G G C C A A G G G G G G G G A A G GAACCAAAAGGCCAAGGGGCCAACCAAGGCC AAGGCCGGCCAAAACCGGGGCCAAGGGGGGAGGGAAAAGGGG C C A T G GAA G GAAAACAAAGAGGAGACAAGGCAGGACAACAGB AACCGGGGGGGGAAGAGGGAAAAAAAAGAAAGGGAGAAGGGG GACCAGGGAAGGAAACAAAGGAACAAGGAAGGAAAAGAAAAA G G G A A C G C GCAGGACCCCGGGGGGAAAGGGGGGGAGAAAA GA ACAGAAAGAAAAAGAAAAAACCGGAAGGAAAACGAGGAAAAA A A G G G G G G G G A A $\mathcal{G} G G G A A A A A A A G G G G G G G G G G A A G A G A G G A G$ A G GAGGAGAAGACCAAGGAAGGAGGAGGGGAGGGCCAAGGCC AA $A G A A G G G G A A C A A A G G A A A A G G G G A A G G A A A A C C G A A A A A$ A A G GCCAA $C$ A A A A $\mathcal{A} G C C G G G G G G G G G G G G A G G A G A A G T A A A A G$
 A GCAAACCAACCGAGAAAGGAGAAGGCAAAGGAGAAAA GAAA G G A A G G A G A G G G G G G G A A A A A G A A $\mathcal{A} G G G G G C C A A G A G G G G C G$ G GAAAAAAGGAAAAGGGGAGGGCCGGGGAAGGAACCGGGGAA C C G GAAAACCAAAAGGGGGGAAGGAGGGGGGGGGAAAACAAA A A G G G G A G C C G G A A A A G A G G G A GAGGGAAAGGGGGGCCAAAA G G G G A A A A A A G G G G G G G G G G A A A A C C A A GAA A A G G GAAAA C A G G G G G G G G A A C C C C G G C C A GAAAA A A A A A G G C C A GACA G G G A G $G G G G G G C C G G G G A A G G G G A A G G A A A A A G G G G G A A G G G A A A A A$

GAGGGGGGGGAAAACAAGAAGGGGGGGGAAGAGGGGAAAAGG
 G G G G G GCCAAGGCAGGGGAAGGCCGGAAGGAAGGAAAAGGGG G GAA A GAAAAGGGGGGGGGGAAAATTCCAAAAAAGGGAAGAG A GAAGGGGGGGGAAAACCCCCCAAAAAAGAAAGGCCAACAAA G G A A A A A A G G A A A A C CAAA $A$ A A A C C G G G G G G A G A G A A GAGGGG AAGGCCGCAAGATTGGAAGGCCAAAAAAAAGGAAAAAAAAAA GAAGGGAGAAGGGGACGGGGAAACGGGACAAAAGAAGGAAGG GAGAGGGGCCGGAAGGACAGCCGGAAAAGAAAAAAAAAGGCC AAAGAGAAGGCCGGAAAAAGCCAAGAGGGGGAGGAAGGGGGA GAGGGGACGGGGGGGGAGAAAGGGGAGGGGGAAGGGCCAGGG G G G G G G A G G G A A A G A C A G A A G G G G C C G G G G A G G G A C C C A C C C G G G GCCCCCCGGGAGACGCAAAAAAAAAAAAGGGCCGGGGGG C C A A A C G G A C A A A A G G A A G G A A G G A A G G A A A GC C G G A A G G C C TAAGAAGGAACCGGCCAAAAAAGAAAGGGGGGAGCAGAAAGG AAAAAAAACCAAAACCGGGGGAAAAAGGGGAGGGGGGGGGGG G G G G G G G G A A A A A A A A A A A GCAAAAAAAGGAAGAA GAAA GAA G G G G A A A A A A A A G G G G A A G G A A A G G G G G G GCC G G A ACA C A T T ACAGGGAAGGGGAAGGGGGGGGAAGGAAAAAAGGCAAAAAAG G G G G T T C C G G A A G G A A G G G A A C C C A A A G G GAGGGG GAAC C C C G GAAAAAAGGCCCAGGAGAAAAGGTTCCGAAGAAGGCAAAAA C CAAAAACGGAGGGCCGGAAAAAACCGGAAAAGGGGGGGAAA GACCAGCCAGGAGGGGCCAAGGAAGGAACCAGAAAAGAAAGG G G A A C C G G A A G G G G A A G G GCCCAAGGGGAAAAAAAGAAAA G G A A G G G G A G G G G G A A G G A A A A G G G A A A G A A A A CAAAA A A G A G A A

 G G A A A A G G A A G A G G GAGGGGCGGGGAGATTAGGGAACAAAAA G G A A A A A A A A G G A A C C A A A A G A G G A A G G G G A A A A C C G G G G C C G G G G G G T TAA T A A A A GGGGCCGACCAAGGAACAAAGGACAAAA ATAAGGGGAATTAACCGGCCAAAAAGGGGGAGAGAGAAAAAA GAAGGGGGGGAAAAAAAAGGAGAACCAAGGAAGGAGGGGAGA G GCCGGCGACGGGGAAAAGAGGCACCAGGAAGAGAAGGGACC
 GAAAGGGGAACCGGAAAAAGCCAGAACCGGGGAAAAGGAGAA A A G A A G G G A A G G G A G G A A A G G G A A G G G G A A G G A A A C G G G G G G G GAA $A \operatorname{GAAAAAAAAAAAGGGGAAGGCCAAAAAACCGGAAGGGG}$ G GAGGGGGGGAACCAGGGGGGGGGGGGGCCAACCAGAACCGG A A A A C C C A C A C C G G G G G G G G G G G G C C A A A A A A G G G G G G A G A G
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 A G A A A A G G A A A G G A A A A A G G G G A A A A A C A G G G G G A A G G A A G G G G G G A A A $\mathcal{A} G G \operatorname{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A G G A A A A G G A A G G G G G G G G A A C C$ A A A A G G G G G GAGGGGGAAAAAAAACCGGCCGGGGGGA

AAAAAGGAAAAAAAACCAAGGGGGGGGCCAACCGGGAGGAA $C \subset C C A A G G G G A A G G C C A A C A A G A A A A A A A A G G G A A A G G G G A A$ G GAA A GCCAGAAAAAAAAAAAAAAGGGGAACCAAGGGGAGAA AAGGAGAGAAGGGGAAAAGGAGGGGGGGAAGGGGGAAAAGAA G G GAGGGGCCCCCCGGGGCAGGAAGAGGCCAGAAGGGGGGGG A A GAAAAGAGGAAAAAGGAGGGAGAAAAGAAGGGAAAAACAG G G G G A G G A G G A C G G A G G G G G G G A G G G A G G A A A G G G G A G G G G A C CAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A C A \operatorname{A} G A A A G G G G C C G G A A A A A A G G T T G G G G G G$ G G G GAAGGGGAACCGGAAGGAAAAAAAAGGAAGGAAAAAAGA GGAACCAAGGAAAAGGGGAAGGACGGGACCCCAGGGGGGGAA AAAA $A \operatorname{A} A A G G G G A A G G T T A A G G G G G G A A G G G A A A G G G G G G A A$ AAAAGGCCGGGGAAGGAAAAGGAAGGGGAAGGAAAAGGAGAA

 $C C G G A A A A A A G G A A G G A A A A C C G G G G A A A A G G G G A A G G G G A A$ G GAAAAAACCGGAGGGAAAGGGGAGGAAGGAAGAAAGAAAGA AAAAGGCCAGAAAAGGAGGGGGAAAAAAAAGGGGGAAAAAGG G G G G A A A A C C G GCCAAGAAAGGGGAAAAACAAGGAAAAGGAG G GAGAAGGAAAAAAAAAAGGGGAAAACCGAGGAGGAAAGGCC A GAG $A \operatorname{GGG} G C C G A A G G C G A A G G A G A A G A A A A G G G G A G G A A A G B$ $G G C C A A A A G G A G A G G G A G G A G G G G G G A A A G G G G G G G G B A A A A$ AAAAAAAAGGGGGGAGGGAAAGAGGGGGACGGGGGGGGCAAA A A G G A A G G G G A A A A GAGGAGAGGGGAGGAAAAGGAAAAGGGG
 A GCA C GCAGGAACCGGAAAAGGAAGGGGCCGGCAGAAGGGGG A G G GCCGGAAGGAAAAGGGGGGAGGGAACAGAAAGGAATTCC G G GAGGAGAAAAAAAAGGAAAAAAATAAAAGGGGGGGGGACC
 GAAAAAAAGGCCGGGGAACCGGAAAGAGGGACAAGGGGGGAG G GAAGGAAAAAAAAAAGGGGGGGGAGAGGGAAAAAACCACAA $C \subset C C A A A G A G G G A G C A A G A A G C G G G G A A G G A A A A G A A A G G G G$ AAAAAAGAGGGGGGAAGGGGGGAAGGCCAGGAGGGGGAGAAA AAGGAACCCCAAAAGGAAAGGGAGAACCAAAAGGACCACCBG ACAAAAAACCAACACCGGAGGGGGAAAAAAAGAAGGGGCCGG AAGGGAAGATAAAAGGGGAGAGCCCCGGAAGGAAAAAAAGGG AAAA $A \operatorname{A} A A A A G G G G G A A A A A A G G A A G G G G G G G G C C A A G G G G A G$ A GAA $A$ GAAAAGGGAAAAAAAAAAGGGGGCCAGGAGGAACCGG $C C A A A A A G G A C C C C A A A A A A A C G G A A G G A A A A G A A C A G A A G B$ G G G G G G G A G G A G G G G GCA G G A A G A G G C C G A C C C C A A G G G G G G G G G G A A A A A A G G G G G G A A A A G G A A A A G GAA A G G GAAAA A A A A A A A A A ACCAACCAAGGAAGGGGAAGGGGGAAAAAGAAAAAAA
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 G G G G G G G G A A A G G GAAAAAAAGGAGAGGGAAGGA AAAGGCCGG A GAGGGAAGAGGAAAAAACAGGAAGGAACAAAGGAAGAGGAA G GAA $A \operatorname{A} A G C C G G A A G G G G G G A A G G G G A A A A A C G G C C G G G G A G$ A G G G A GAGGGGGGAGAGGAGAAGGGAAGAACCAAGGAGCGAA G G A A A A G G A A A A G GAAA $A \operatorname{AGGT} T A A A A A A G G G G G G G G G G G G G G$ AAAAAAGGAACCGAGGGGGAGGAAAAGGAGAAAATTAAGGGG G GAACCAAACTAGGGAAAAAAAAAGGAACCAA GAAACC G GAA $A A G G G A A A G G A A G G G G C \subset A A G G A A G G G G G G G G A A A A G G A A A A$

G G G G G G G G A A G G G G G G G GAAAAAAAAAAAGACCAGAAAAAGA C C G G A A A A G G G G G G A A G G C C A A A G G G G G G G G G A C C C C C C C G A A A G G A A A A GAGGCCAACCAAAGAGATGGAGGAGGGGAACAAC A GCCGGGACCGGAAGGAAGAGGGGGGAAAAAAGGGGGGAGGG GGCCCCGGAAAAAAGGGGGGAACCAAGGGGAAAAAACCAAGA A G G GCCAGGGGAAACCAACCAACCGGGGGGGCGGAGCCGGGG G G A A A G G G A A G A A A G G G GAAGGAGCAGGAGAACCAAAAAAAA G G G GAACAAAAAAGAAGAGGAAAAGGTTCCGGGGCCCCBGGA A G G G A A A A G G G GAACCAAAAAAAAGAAAGGCCAA G GAAAGAA AAGGGGGGGGGGGGGAAAGGGAAAAAGGGGAAGGAAAAAACC C C G G A A G G G G A G G G G G A A G G G G G G G G G A G G A A A A A A G A G G G G A A G G G G G G A A A A A A GAA A A GACACAAGGGGCCCCAAAAAACC G GAGGGGAAAAAGGGGAAAAAAGGAAAAGGAAGAAA GAGAGGG G GCCAAGGGGCCGGGGCCAAAAGGGAGGCAGGAAACAAAGGG AAACAGAAGGGGAAGGGGAAAAGGGGGGCCCCGGAGGAAAAA A A A G G G G G A A G G G G A G G G G GAACC G GAAAAGGAAG TATAA G G G GAA $A \operatorname{Gg} \operatorname{G} A A A A G G A A A A A A A G G A A A G A G G A A G G A A A G G A A A$ A A G G G G G GCCAACAGGGGAAGGCCGAGAGGACAAAAAAGAGG $C \subset C C A C G G G G A A G G G G G G A A A A C C A A G G A G A A C C A A G G C C G G$ G G G G A A G G G G A A G G A C G A A A G G G A A A G G G G GAGGA GAAC CA A AGCCAAGGAAAAAAGGAACCAAGGGGAGAAAGAAGAAAGGAC GAAAGGAAAAGAAAAGGACCGGAAGGAAGGAAGGCAAAGGAC C C A G A A A A G G A A A A G G GACCCCAAACGGGGCCAAGAAGAGAA G G A A G G A G A A G G G G G G A A C C A A G G G G GAAAAAA G G G G G A A G C C A G G G A A G A C C G GAA A C G A A GACAACCAAAGGGGGGGGGAAAA
 G GAGAACCGGAAAAAAAAGGGGGGGGAAAAGGGGAAGGAAGA A A G G A A $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A G G G A A A A G G G G G G G A A A A G G G G G A$ G G G A A A G G A A G G G G G G A A G G G G A A A A A A G GCCGGG GAA GAAA G G G G A A G G G G A A G G G G G G C C G G G G G G A A C C G G G G G G A A G G C C A A A A G G A A G G A A G G A A G G G G A A G G A A A A A A A A GA G GA G A G A G G GAAGGAACCGGGGAAAAGGAAAAAAAGGGAAAAAAGGGGGG C CAAAA A G G G G GAA A A A A C C G GAA G GAAGGAAAAGGGGCAAA A A A A G G A A A A G G G G A A A A A G G A A G A A A G A G G G G G G G A A G A G G C C G A G G A A G G A G C A A A $\mathcal{A} G G G G G A A G G G G G G G G A A A A A A G G C C$ G G C C A A G G G G A A G G A A G G A A A A C C G G G G G G G G G G G G G G A A A A AAGGGGGGTTGGAGCCAAAACCGGGGCACAGGGGAAGGAAAA AA $A G G G C C G G G G G G G G G G A A C C A A A A A A G G C C A A A A A A A A A G$
 A A A A A A C C G G G G G G A G G G G G A A G G G G A A C A G G G G G G C A G G A T A A A A G G G GCCGGGGCCGGGGAAGGGGAAGGGGAAAAGGAAAA GAAGGACAAGAAAGGGAAAAGGCAGGAGGGATGGAACCAAGB AAGGGGGGGGGAAAAAGGGGGAGAGGAACCGGGGCCGGGGAA GACCAGAGAAAAAAGGAAAACCAAACGGCCGGCCAAGEAGGG A A G A G A G G A A A A G G A A G G A A A A A A A A GA $\mathcal{A} G G G G G A A G G G G G G$ A A G G G GAA A G A A A A A A C C G G G G G GAACCCCGGAA GAC CAA GA G G G G A GAA $A \operatorname{GGG} G \mathrm{G}$ GACAAGAGACCAAGGAAGGAGGGAAGAAC AAAGGACCGGCCAGAAGGGGAGGGAGAGCAAAGGGGGGGGAA G GAAGGAAAACCCCGGGAGAGGGGGGAAAAGGAACCAAATAG G GAGGACAGAAAGGCGGGGACGAGAAAAAGGGGCCAAAAAA G G A G A G G G A A G G G G G G G G A A A G G G G C G G G G A A A A A A C CAA $C A$ AAAGGGGGGAGGGAAAAAAGGGAGAAGGGGCCCCCAAAAAAA A G G G C C G G G G G G G G C A A G A G A A A A A A C C G G A C G G G A G A G G C A A G G G G G G G G G G A A A G G G GAA A G G G T T G GACAAAA A A GA GACA AAGGGGAAAAAAAAAAAACAAAAAGGAAAAGGGGGGAAAGAA $G G C C A A G G A A G G G G A A A A A A G G G G A A G G G G G G G G G G G G A A G A$ G G G G G A G A G G G G G G A A A $\mathcal{A} A \operatorname{A} A A G G G G G G A A G G G G A A G G A A G G$ A A G GCCAA G G A A A A A A G G A A G G GAGAA GAAAAAAGGGGACAA G GAACCAAAAAACCGGGGGGCCAAGGAAAAAAGGGGC
$C C C G G A A A A A A A A G G G G A G A C G G G G G A A G A C G G A A G G G G A C$ $G G A A A A C C A G A A G G A A G G A G G A G G A A G G A G G G A A G G C A G A A G$ AACCAAGGAAGGAGGGAGAGAGGGGGAGGAGGAAGGAAAGAA AA GAAC A A GAAGAAGGGGAGAAGGAAGGAAAGCCAAGAAAGA G G G G G GCCAAGGAAGGCAAACAAAAGGGGAGGAAAACCGGGG AA $\operatorname{A} G A A A A A A G G A A A A A A G G C C A G A A G G A A A C A A G A A A G G G G$ A A A A G GAAAAA A $A \operatorname{A} \operatorname{A} A A G G G G A A G A A A C C G G G G G G A A A A G G G G$ A G G GAA A GAA $A \operatorname{AGGGAAACGAGGAAAAAAAAAAAGGGGGAGAA}$ A G G G A A A G A A G G G G G G A G A A A G A A G GAAA G GAAA A A GACAAA AACCGGCCAAGGGGGGCCAAAAGGAAAAGGGGGGAAGGAGGG A A A G G G G GCCAAAA $A \operatorname{A} A G G G G A A C C G G G G G G A G G G G G G C G G G G$ G G G G A A G G G G A GA $A$ A A A A A G G G G A C A A A A A A A A G G G G A A G G G G $A \subset A A G G A G G G G G A A G G C A G A G G G G A A A A G A A A A A A A G G G G G A$ G G GAGGAAACAGGGAAAGGGGAGAGGACAAGACCCCAAGAGA G GAGAAAGAAGGGGGAAAGGAAAAAGGGGAGGAAAAAACCCC G GAA A G G G G G G GAACCAAAAAAGGGGAACCGGAACCCCAAGA G GAACCGGGGAAGGGGAGAAAAAAGAGGGGAGGGGGGAAA$G G$ $A A C C G G A A G G G G A A G G G G A G A A G G G G A A G G G G G G G G G G C C A A$
 A A G G G GAA A G G G A A G G A A A A G G A A G GAA A GAA A A G GAA G GA A $C \subset A A G G G G A A G G A C A C A G A A G A C A C C G G A A G G G G A A A A A A G A$ A A G G A A G G A A G G G G G A A A A A A A G G G G T T T T G G G G G G G G C C G A G G A A A GCCAAGAAAAAGGCCGGAAAGAACCAAGGAAAGAGAA G A A A A A C A A G A A A C G G A A A A A A A ACCGGCCAAAAG GAA GAA G ACGGAAGGAAAGGAACGGCCAAAGAAAAGGGGGGAACAGGTT G GAACCAAGGAAAAAAGGCAAAAAGGGAAGGAAACCAAGAAA G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A C A G A C C A A A A A A A A G G G G G G A G G A G G$ A A GAGAAAAACAGAAGCCAAAAGGAAAAAACCGGGGAGAGAG C CAGGGAAAAAATTGGGGCCAAGGGGAAAAAACCGGAAGGAA AACCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAGGAAT T A A A A A A G GCC G G A A G G G G G G A A T T A A C C G GAA G G G G A G G G A A AAAAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAGAG G GAA $A \operatorname{GAA} C \subset A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G G$ AAAAGGCCGGGGAAAAAGACAGAAAAGGAAAAAAAAAAGGAA G G G G A C C C G G G A A A A A G GAACCAGAAGAAAACGCAAAAAA G G A A A A A A A A A A GAGAGAGGGGAAAAGAAAAGAGGGAAAAAGGG TACCGGAAGGAATTAACCGAGACCAAGGGGAAAAGGAAAAAA AAGGAAGGAAGGAAAAGGAACCGGGAAACCGGGGGGACAAAA G G G G A A A A G G C C A G G G A A A G GAGGAGGAAAGGCCGAGGAA GA A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G G G A G A A A A G G A G G A A A G G G GAAAAGGGGGGAACCAACCAA G G C C G GCC G G G GCC G G A GAA $A \operatorname{CGGGCGGGCCAAAGGGAAAAAAGGAG}$ C C C C A A C C A A A A A A C C G G G A A A G G G G G G G G G G C C A A G G G G A A G G G GAA A A A G GAGAGGAGACCCAAAAAAGGAAAAGGCCAAAA AAAAGGAAGAGGGAAAAAGAGAGGCCGGAAAAAAAAGGAGAA A A G G A A G G G G A A A A G G C C G G G G G A G G G G G G A A G G G G C C G G A A GAGGAAAGGGAAGGAAGGAACCCCGGCCAAGGAAGAAAAGAG AAGGGGAAGGAAGAGGAATTCCCCAAAACCAAGGAAAAAAAA AA $A G A A A A G G G G G G A A G G A A C C C C G G G G G G C C A A A A G C A A G G$ C C G GAGGGAAAAGGAAACAAGGCCAAGGAAGGGGGAAAACAG A A G G A A A G G A G G G G G G G G A A C C G G G G G G A A G G G G A A A A G G C C GAAAAAGGAAAAAAAAAGGGGAAGAAGATTAAAAAAGACCCA A A G A A A G G A A C C A A C CAAAAAAGGGGAAAGAAAAAAGAAA G G G G G GAA T T G GAAGAGGACGGAAAAGGGGAGAACACAAGGATT AAACAACCAAAAAAGAAGAGAAGGGGAAAAGGAAAACAAAGG A A A A G G G G G G G G G G G G A A G G G A A G G G G G A A G G A A A G C C A G C C AAAGAGAAAGGGGGCCAGAAACAGAAGGGAGCBAAGGAAAAAA G G T A A A A A A A A A C C A A A A A A A A G GAAGAAACACCCAAG G GA A AGAACACAGACACAAACCCAGGCCGGGGAGGATTAAGAGGAA

TAGAGGAGGAAAGGAAGGGGCCAAGGGGAAAAGGCCAAAAGG G G G G A A G G C C G G G G A A A A C C A A G G G G A A A A G G G G A A C C G G G G G G A A C C G G G G C C G G G G A A A A A A G A A A G G A G G G G G G G G G G G G G AAAACCAACCAACCGGGGAAGGAAGGTTAAAACCAAAGAACC G G G G G GC C C C G G G G G G G GAAAAAAAAAAAAAAAGGGGGAAAAA G G G G G G A A C C G G A A A A G G A A G G G G A A G G A A G G G G G G A A A A $G$ G $C \subset G G G G G G A A A A G G G G A A G G A A G G G G C C C C G G A A A A A A G G G G$ G G A A A A G G G GAAGGGGCCAAGGAGAAGGAAGGAAGGGGAAAA C CAAAAAAAAAAAAACCCGGGGCCAAGGGGGGGGAACAAAGA G G G G G GAAGGCCGGGGCACCAACCGGGGAAAGGAGGAAGGCC GAGGAAGGGGCCGGAAATGAGGGGGGAAGGAAGGACGGAGAG A A G A A A G G C C C C C C G G A GAC G G G G A G G G G G G G G A A G G G C C G G G G A A A A G G G G A A A A A A C A A A GAA A GAGGGGAAAAAAGAAAAA G G A A A A G G G G C C G G G G A A G G A A G G G G C C A A G G C C A G G G G G A A $C \subset C C G G A A C C G G A A A G A G G G G G A A G A T T C C G A G G A A A A C C A A$ A A A A A A G GAGAAAAGAGCAAGGGGAAAAGGCCGGAGGGAAGA
 A A G G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G G G G C C A A G G G G A A G G C CAAAAC CAAAAAAGGGACCAAGGAGGG G GCCGGAAAACCACGGAACCAAGGGAAAGGGGAAAAAAAAAA A A A GAAAGGCGGAAAAGGAAGGAGACAGCCAGGGGGAAAGAA G GAA A A A A G GAAAAAAGGGGAAAAGGAAGGGGGGAAAAAAAA AAAAGGGGAAAAAAAAGAAAGAAACCGAGGGGGGAAAAAGAG G G A A A G A A GA G G G G C C C A G G C C G G A A A G A A G GAA A G C C C C G G A A A A G G G G A A A C G G A A A GCCGAGGGACCAGAGAAAGGAAAAA G GAA A GAGCAGAGGGAAAACGAGGGACCGGGAGGCCACAGAA ACAAAGAAAAAGACGGCCAAGGAAGGGGACGAGGAAGAAAAG C C A A G G G G G G G A A A A A $\mathcal{A} G G G G G G G A A A A A A G G A A A A A A A G A A$ GAGGCAGGAAGAGGAAGGAGAAAAGGGGACGAGGAACAGAAA
 G G C C G G A A G A G G G G G G G C A A G G G G A A A A G G C C A A G G A A A G C A AAGGAAGGGGCCAAAAAAGAGGAAAAAAGGAAGGTTAAGGGG G GAA A A A A G G G GAA $A \operatorname{GA} A A C A G G A A A A G A A G A A A A A A G A G G A A$ C C G G G G C A G A G G A A A A $\mathcal{A} G G G G G G G G G G G G G C C G G A A A A G G A G$ G GCCGGGGGGGAGGGGCCAAGGGAGGAAAGAACCGACAAAAG G G G G A A A G G A A A G A C A G G G G A A A G C C A G G G G G C C A A A A A A G G AA $\operatorname{A} G \mathrm{G}$ GAA $A \operatorname{GGGAAAAAAAAGGGGACCGGAAGGAAAAGACCBA}$ GAAACCGGGGGGAAGGAAGGGGGGAAGGATGGAAAAAGAAGA G G A A G A A A A A A A A A G G G G G G G G C A A A G G G A A G C C G G G G A A G G G GCCAGGGAAAAAACAAAGGGGGGAAGGAAAAAAGAAAAA GA A A C A A A G G A G G A G A G G A G G A A A A G GAA A G G A A G G A A G G G G G G A A G G G G G G G G A A G G A A C A G GAA A G CAAAA $A$ A A A G G G G G G G G G A GGGGCCAAAAAAGGAAAAAAAAAAGGGGGACACAAAGGAGAA G G A G G G C G G G G G G G A G G G G G A G G G A A A A A A A A G GAACAAA G G G GAAG GAAAAAAGGGGAAAAAAAGGAGGAAGGCCGAGGGGGG ATAAAACCCCGGGGGGGGAAGGACACAAAAAACCCAGGTTGG1 G G A A A A G G A A A A G G G G A A A A G G A A C C A A G G G G A A G G G G G G G G A A G G T TAACCGGGGGGAAAAAGGGCCGGAGAGAAGGAGGAGG $G G C C A A A A A A G G G G G G G G A A G G A A G G A A G G A A A A A A A A A A G G$
 G G A A A A A G A A G G G G G G G G A G G A C C A G A A C C G G A A A A A A G G G A A A A A A A A G ACCAAAGGAACCCCGACATTACGACCGGGGAAAA A A C C G G G G A G A A A G G G G G A A A A A G G G G G A A C C G G A A A A G G G G AACCGGAAGGGGAAAACCAAAAAAGAAAAAAAAGGGGGGGAA A A A A C CAACCAAAAGGAAGGCCCCGGGGGGGGGGAAGGAABA CACAACGGCCAAGGCCGGAAAAAAGGAAAACCAAAAGGGGAA A ACACCAAGAAAAAAAAAAAGGAAAAAAGGAAGGAAAAGGAC G G G G G G C C C C A G A A A A G G G G G G A A G G G G A A A A G G G G A A G G G G $G G C C G G A A A A A A G G G G G G G G A A G G G A G G G G C C A A G A G$

GAGAAACGAGGGGAAGGGGCCGGGGAAGGAAAACCGGGGGG A A G G G GAGAAGAAGAAAAAAGGCCGGGGAAGAAACCAAAAGG A A A A A A A A G G G G G GAAATACGAGGAAAAAATTGAAAA GAACC A A A A A A A A G G G GAA A GAA $A \operatorname{AGAAGGAAGGAACCAAGGGGGGAG}$ ACAAGGAGCCAAAACAAAAAGGGGAAAGCCGGAAGGCCAGGC G G A A CAGGCCAAAAAACCGGAAAAAAAAGGGGCCAACAAGCC A A C C A C A C G GCC G G A A A A G G G G G G G G G G G G A A C C A A A A G G G G $G G C C A A G G C C G G G G A A G G G G G G A A G G G G A A A A G G G G C C A A G A$ A A G G G G G G G G C C G G A A G A G G A A A A A A A A A A G GAA A A G C C G G C C G GAAAAAAGGGGGGAAGGAATTGGAAAAGGAAAGGGGGACAG G G GAGGCCAAAAAGGGAAGGGGCCCCAAGGAAGGGAGEACGG C C G G G G A C G G A A C C G G A A A A A A G G G G G G A A G G A A A A A A G G G G C C A A A A G G A G A G G G G G G G A A G G G A G G G A G G G G A G C C A A A G G G C C G GAAAA $A \operatorname{A} A A A A A G G A A A A A A G G C C G G A A G G A A A A G G G A A A$ G GAAGGAAGGCCGGAAGGAAAAGGCCCCGGGGAAAAGGAGAA G GAAAACCGGGGGGGGGGCCGGCCAAAAGGAAGGGGAAAAAA
 C CAAAAAAGGAAAAAACCAAGGGGAAAACCGGAAAAGGGGGA $G G C C A G A A A A A A G G G G G G G G C C G G A A A A G G G G C C G A A A G G G G$ A A G GAACC GAA A A G GAAAAAGGAAGGAAGGAACCGGAGAAAA G G G G G G G G G GAA A GAACCGGGGCCAAGGAAGGGGAAAAGGGG G G A A G G G G G G G G G G G G A A G G G G C C A A C C G G G G G G A A A G G G A A G G G G G G G G G G A G G A A A G A A A A A A GAGGGAACC G GAAAA G G G G G G A A C C T T A A A A A A C C G G G GAA $A \operatorname{GGGACGGGAAAAGGGGGGCC}$ G G A A G G G G G G A G G A G G G G A A G G A G A A G G G G A G A G G A A G A G A A G G G G G G A A GAA $A$ A A A G GAGACCGGCCAAAACCGGGGAAA GAA GAGGGAGGAAGGAAGGAAAAGGTTGAGGGGAAGAAAAGAGAA A A A A G G G G A A G G G G G G A A C C G G G G G G G G G G A A A G G G G G A A A A G GAAAAAAGGAAAAGGGGAACCAAAAAAGGGGGGAGAGGGCC AAAGGGGGCCGGAAGAGGAAAAGGCCGGAAAAAGAAAGAGAT A A G G G G A A A G G G A T A A C CAAGGAACCAAGAGGAAG GAAAAAA AAGGGGGGAAGGGGAAGGCCCCGGAGCAAAAACCGGAAGGAA ACGGAAGACCCACCGGGGCCAACCTTAAAGCCAAAACCAAGB G G A A A A G G A G G G A G G A G G G G C C A G C A G G G G G G G G A A G G A A A $G$ A CAA $A \operatorname{GGG} \operatorname{G} A \subset A G A A A G G A A A A G A G G G G A A A C C G G G G A A G G A G$ A G G A A G A G G G G A A G G G A A A A A A A A C CACGGAAGGAGGAAACC G GAAAAAAGAAAGGGGGGGACAAGAGGGGAAAGAAAAAGGGG $A G T T G A G G G G A G G G A A G G A A G G A A A A A A G G G G A A A A G G A A A A$ A A A G A A A A G GCCAGGGAAAAAAGGCCCCGGAAAAAAAAAAGG A A A A G A A A GAGGAAGGAGAAAAAAAGAGGGGGAAAAAAACAA G G GACCAAAGGGGGAGAAGGGGGAGAGGGACAGGCCAGAAAA TAATGGAACCAACCAAGGAAGGGGAAGGCCAAGGAACCAAAA G GAGGGGGCCGGAACCAACCAAGAGGGGGGGAAAAAAAAAAA GGCACCAAACGAGGAAAGAAGGACAAGAGGGGGGAAAAAAAG C GAA $A \operatorname{GGG} \operatorname{G} A A A A G G G G G A A A C A G G G G C C G G A G C A A A A A G G A G$ A A G G G G G G A A A A A A A G A G G G A G G G A A A G G G G G G A A A C C C C G A G GAGCAGAACAGACAAAGGAAAGAAAAAGGGAAAGAAAGGGG G GAA A G G G G GCGAAAACCGGAAGGGGAAGGGAA GGGGGGGGG $G G C C A A G G G G G G A G G G G G G G A A G G G G A A A A C C G G G G A A A A G G$ G G G G G G G G A A C A A A A A C A A A A A A A G GAA GAAATTGAAAAAAA G G G G A A G GCCAAAAGGAAAAGGGGCCGGGGCCAACCAAAAAA AAAAGGAAAGGGAAAAGGGGAAGGGGAATTGGCCAAAAAAGAG C C G G A A G G G G G G T T G G C C G G A A A A G A G A A A G G G A T T A C G A A A AAGGAAGGGGGGAAGGAAGGCCCCAAAAAAAAAAAAAAGGGG C CAA $A \operatorname{GAA}$ G GAAAAAAGACCGGAAAGGAAAAAAAGGAAAAAA ATAAAAAGAAAACCAACAGGGGCCGGGGGAGGGGGGCCCAAC T T A A A A G G A A G GAA $A \operatorname{GGGGAAGGAAAAGGAGACGGAAGAGAAA}$ A A GAG A G G G GAGAAAGAAAAAGGGGAAAAAAGGCCGGAA GAAA GACCAAAAAGAAAGGGGGGGCCGAGGTTCCAGACAAAAGAAG

A A GAAACCGGAAAAAAAAAAAAAAGGAAGGCCAAGGCCCAAA G GAAAGACCCAAGGGGAAAAAAAAGAGGAAGGAAAGAGAAGG A A A A GAGGGAAAGGAAAAAGATAGGGAAAAGGGGAAGGAGAA GAGGAAGGAGACGGCCGGAGCAGGCAGGGAGAGGAAAGGGAA GGGAAACCGGCCGAAACCCCCCGGCCAAGGCCGAGGAAGAAA G GCCGGAAGGAAAAAGAAGGAAGGGGGGAAGGAGGACCAGAA G G G G G GAAAGCCAAAAAAGGAAGAAACAAGAGGGGGAAGGAA G G G G A A G G G G G G G GC CAA $A \operatorname{A} A A A A G G G A A G G G G A A A A A A G G G G$ A A G G G GAACCAGGGGGGGGGAAGGGGAAAGGGGGAACAAAGG A GAA A GACCGAGGGGGGGAACCGGGGGGCAGAGACCATAAGG G GAACCAAGGAAAAGGGGGGAAGGAAAAGGAAGGAAGAAAAA
 A A G G A A A A $\mathcal{A} G G G G G A A G G G G A A G G A G G G A A C C A A G G G G A G A A$ $G G A A G G A A G G A A A G G A G G G A A G G G G G G G G G G G A A G G A G C A A A$ A A G G GA $\operatorname{A} G A A G G G G G A G A G G G G G G G G G A C G A C A A G G G G G G A A$ GAAAGGGGCCAAAAGGGGGGGGGGGGGGAAATCCAAGAAGGG AAAAAACCGGGGGGAAGGGGAAAAGGAAGGAAGAAAGGAGAA G GCCGAGGAAAAAAAAAAAAGGCCGGGGAAGGAAAAGAAAAC $G G G G A G G A G G G G A A A A G A A A A G G G A A A A A G A A A A C C A A G G A A$ G G G A G G A G G G A G G G G G CA $\mathcal{A} G G G A A G G A G A G G G G G A G A A G G G G$ AAAAGGGGGGAAGGCCGAAAAAGGTTAACCGGCCAAGGGGAA A A A A A A G G G G A A A A A A G G G GCCGGAACCAAAAGGAAGAAAAA G GAAAAAAGGCCAAAAGGAAGGGGAAGGAAGAAACCTXGGGG AAAAGGCCAAAAGGAAAAGGACCCGGAAGGAAGGAAGGGGAC A A A A G G A A A A G G G G A G G G G G G A A G G G C A A G G A A A A A G G A G A A AAAGGAGAAAGGAAGGGGGGGGGGGGAACCCCCCCCCCAAGG AA $A G A A G G A A A A A A A A C C G G G G C C A A G G A A G G G G G G G G A G A A$ T T G G G G A A G G A A A A G G G G G G G G A CA A A A A A A A A A C C G G G G G G C CAA $A \operatorname{GGGGGGCCAAAGGGCCAGGAGAGGAAAAGAAAGAACAA}$ AAATGGCCAAGAAGAAGGGAGGAAAAAAGGAAGGAAGGCCCC A A A A A A T T A A G G G G G G G G A A A G A A GAAA $A \operatorname{A} G A A G A B C G G G G G G$ GGAAAAGGGGGAGGAAAACCAAAACCAAAAACAAGGCGGGGA G G G G A A G G G G G A A G G G A A G A G G G A G G G G G G C C A G G G A A G G G
 A ACCGGAGAAAGAAAAAAGAGGGGAGGGGGGGAAAAACGGAA G GAGAAAAAAGAGGGACAAAGGGGGGAGGGGGAGAAGGCCGG AGGGAGAAAAGAGGAAGGGGGACCAAAAGGAAGAAGAAAAAA AAACGGAAAAAAGAAGAAAACAAAAAGAAAGGGGCAGAAAGA G G A A A A C C A A G G GACCGGGGCCGGGGGGCCAAGGGGCCAAGG G G G A G G A G A G A A G A G G G G G GAAAACCCCAACCAAAAAAAA G G AAGGCCAAGGGGAAGGGGAAAAAAAAAAGGAAAGGGGGAAGG
 G G G GAAGGCCAAAAAGCCGGCCAAAGGAGGCCAACCGAAAAA G GAAGGCCCCGGAAGGGGAGGGCAGAGAAGGAGGAAGGAAGA G GAAAACCGGGGGGAAAAAAAAGGGGAAAAAGCCAAGGAGAA AAAAGGGGAACAAAGGGGAAAAAAAAGGTTAGAAGAAAAAGG
 G G G GA GAA AGAAAAACAACAGGAAGGCCAAGAAAGGGGCCGG AAGGAAGGGGAAAAGGAAAAAAAAGGCCAAGGAACAACAGAG G G G G G A A G G G GCA $\mathcal{A} G G C C G G A C G G A G A G G G G G A A A A G G A A A G$ CAAGAAGACCGGAGGGAAGAAGGAACGGAAGGAAAAAAGGGG G GAAAAAAAAGGAAGACCTTGGAAGGAGAAGGAAGAAAAGGG AA GAAA $A$ AAAAAGAACAAGAAGGAAAAGGGGGGGGAAAAGGGG AA $A G G G G A A A A A G G A A A A A G G G A A A A G G A G A A G G C A A A G G A A$ G GCCAACCGGAAAAGGGGGGGGGGAAGGAAGACCAACCGGCC G GCCAGAAGGAACCGGAAGGAAGGAAGGAACCAACCGCGGGG A A G G A A G G G G GAGGAAGGGGAAGGAGGGAAGAAAGAAAGGAA $G G G C C C A A T A G G A A C G G G C C C C G G C A G G A A A A A A A A A A C C G G$ AAACGGACAAGGAGGGGGGGAGAGACACCCCCAGGGA

AAAGGAAAACCAAGGAGAAGGGGGGAAAAAAGGCCGGGGGG AAAAAGGGAACCAAGGAGGAGGGGAGGGCCAGAGCCGGGGAA AAGGCCGGGGAAAAAAGGGGAGAAACGGGAGAAAAAGGGAGG AAAAAGAGGAAAAGGGCCAAGGAAGAGGAAGGAAGGAGAAGG GAAAAAGAGAGGGGGAGGACCCGGAGGGGGAAAACCGGGGAG G GAGGGGGAACCAAACGGGGTTAAAAGGAAAAAAAACCCCGG G G G G G G A A A A G GAA A A G G G GAAAGGGGGAAAAAAGGGGAAGG
 AAAACCGGGGAAGGAAAAGGGGGGGGGGAAAAGGAAGGAACC GGAAAAGGGAACAAAAAGCCAACCAAAAGAAACAGGCCGGAA G GAAGGAAGGAAGGGGGAGGGGGGCCGGAAGAAAGGCCGGAA G GAAAAGGAAAAAAAGAACCGGACGGAAAAAAAAGGGGGACC
 GGGGGAAAGGAGAAGGGCAGCCAAGGGAAAAAGGCCAGACAA AAAACAAAGGGGAAGGGGAAGAGGAAGGAAGGACCCGGGGGG AAAAAAGGAAAAAAAGAGCAGAGGCCGAGAGAAAGGGGAAAA G G C C A A A G G GAAAAAAGGGGGGGAGGGGCAGGGGGGAACAAA G GCCGGGGGAGGCCAAGGAAAAGAGAGGCCGAAGCACAAGGA AACCGGGGGGGAAAAAGGGGGGAAGGAGAACCGGGGGAAAAA AA A G G G G G G G A A A G G G G G A A A A G GAAAAAAAACCGGAAGGAA AAGGGGCAAGAAGGCCGGCCAAGGAGGGGGAAGGAAGGCGGG C C C C C C C C G G GACAAAAAAAAAGAGAGGGGGGAAAACCGGCC G GCCAAAAGGAGGGAAAGAGGGGGGAAGGAAAGGGGGGAGAA G G A GA GAAAAAAAGGGGGGGGGAAGAAAGGGGAAGGGGTTAA C CAACAAAAAACGGGGAAAGGGAAAAGGAAAACCAGAAAAGG C CAA G G G GAGAGAGAGAAAAAAAGCCAAAAAAGGGGGAAAGG GAGGAAGGGGAACCGGAAGGCCAGAAGAAGAAAAGGAGAACC GGCCAAAAAGGGAAAAAAAAGGCCGGGGGAAGAAGGCCAGAA ACAAAAACAGATGGAAGGGGGGGCAAGGGGCCCCAACCGGGG AACGAAAAGGAAAAAGAAAACCAAGAGGAATTCCGGAAGGAA A A A A A A G G G G G G G GCCAAGGGGAAGGAAAAAAGGGGGAAACA CCAAAAGGACAGGGAGAAAGCAAAGAGAAAACGGGGGGGATA AAAGAGAGGGGAAAAGAGAACAAAAAAAAAGGAAGGAAAAGA GAGAGAGGGAGGGGGGAACAAAAGAAAAAACCAAAGAGAAGG A A A A G G A A G G G G G G A A A A A G G G A A G G G G G G G G G G G G A A G G G A G GAAGGGGCCAAAAGGGGTTGGAAAAGGAAAACCCCGGAAAA A GCCGGAAAAAAGGCCCCAGGGCACCGGCCACGGGGAAGGAA GAAAGGGGGGAAGGGGGGGGAGTTAAGGGGCAAGCCAGGGAA G G G G A A G G A A G GAGGAGGAAAAAGGGGGGAGGGAGGAAGGCC G G G GAAAAGGGGAAAGAAAAAAAAAAAGAAGGAAGAAGGGAA C C GGCC G G A A A A A ACCCCGGGGGGAAGGGGAGGGAACAAAGG
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AACAGGACAAGAAAAAGGGACAAGAAGGGGAAAAGGAAAAAA G GAA $A \operatorname{GCC} C G G G A A G G G G C C A G A G G G G G A A G A G A C C A G A A G G$ G GAAAAGGCCGGGGAAGGGGGGGGCCAAAAAAAGAACCGGGG G GACAAAAAAAAGGGAAAAGAAGGAGGGACTTAAAAAAGAAA

 A A A A A A A A G GCCAAAAAGAACCGGGGGGGGAAAAGGGAAAAA G G G G G GCCGGGGAAGGGGAAAAAAGGAAGGAAAAAAAAAAGG AAAACCCCAGGGAGAACCGGGGAAGGGGGAAACCGAGGAAGG AAAAGGGGAAAAACAGGGGGCCAAAAGGCCGGGGAAGGCAAA


 A A A C A GCAAAAAGGAAAGAAAAGGAAAAAGAGAGAAGGGGGG G GAACAAAAAGGAAAAGGGGGGCCGGCAAAAAGGAAAAAAGG G G G G G GAAA A G GAA A GAAGGAAGGAAAGGGAAAA G GAAAGGGG A A A A G G A A A A G G G G A A GAGGGAGGAAGGGGGAAAAAAGAAAA G G A A A A A A A A GAGGGACCAGAAGGCCGAGGGGGAGAGAAAAA GACAAAGGCAGGCAGGCCAAAAAAAAAAAAGGAGAAGAAAGAG $G G C C G G A A A A A A A A A A G G G G A A A G G G A A G G G G A A G B A A A A G G$ AAAAAAGGAAAAAAGGAAAAGGGGCCGGAAGGAAAAAAGGGG G GAAGGAAGGAAGGAAGGCCGGAAGGGGAAAAAAAAAAAAAA G GAAAAAAAAGGGGGGGGAAGGAAAAAAGGCCCCAAGAAAAA

 G GAAAAAGAGAGGAGGAAACAGCCAAAAGAGAGGAAAACCAG GAAGGGCCAAAAAGGGGGGGGGGGCCAAAGAAAAGAAAAACC A A G GAGAACCGGAACCAAGGCCAACCGGGGGGAAAAGGGGGG A A G G A A A A A A A A G GCCGGAAGGAAGGGGAAGGAA GAA GAAAA A GAAGAGAAATTAAGGGAGGAAGAAAAGGAGAGAAACAAAAA A C A A G G G A G G G G C C G G G G C C A A G A A A G G A A A G G G A A G G A A A A G G G GAAAACCAACCGGAAAAGGCCGGGGAAGGAAAAAAAAGG G G G GAATTAAGGCCAAGGAACCGACACCGGGACCAGGGGGCC

 $G G A A G G G G A A A A A A G G A A A A G G G G A A G G A A A A G G G G A A A A A G$ GAGGAGGGGGAAGGAAAAGGGGGGGAGGCCAGGACCCAAAAA AAAA A $A$ GAA $A$ A A GAA $A G G G A A A A G G G G A A G G G G G G A A A A G A A A$ AAAAAAGGGGCCGGAAGGGGAAAAAGGGGGGGCCGAGAAAAA A A G GCCGGAGGAGGACGAGGACAAGGGGGAGGGGAGAAAAAA G G G GACAGCCAAGAAGGGGGGGAAGGGGGGAACCAAAAAAAA
 $C C G G A A G G G G G G G G C C G A A G A A A A G G G G A A A A A A G G A A A G A C$ GAAAGACAGGAAGGGGAAGGAAAAAAGGGGGGGGAAGAAAAA AAAAGGGGAACCGGAAGGGGAGGAACGGAAAAAGCCAAGGGG A A A A G GAACCAAGGGGCCAAGGAAGAACGGAAGGGGAGAGCC A A G G A A G G A G G A G G A G G G A GAGAAAAAAGGAAAAAA AAA A A A A A A G G A A G G G G A G A A A G G G G G A A A A G G G G G G G G G G A A C C A A G G A A A A A A G G G G A A G G G G C C G G G G A A A A A A G G G G A G G G G G G G G G
 ACGAAAGGAACCAGAAAAGGCCAGAAGAAAGGAAGGGACCBA AAAAGAAACCGGCCAAGAAAGGAAAAAAAAAACCAAGGAACC A A G G A A A A $\mathcal{A} G G G G G G A G A A A G G A A G G G G G G G G G G C C T A G A C C$ GACCCCCCAAAGGGAAAGAAGGAACCGGGGGGGGCCAAGGGA GAGGAAAGAAGGGGGAGGGAAAAAGAGGGGCCGGAAACAGAA G G G GAGAAAAAGCCGGAGAGAAAGAAGGAAAAGAAGAAAAGA GAAGAAAAAAAAAAAACCCCAAGAAAAGGACAGGAAGGAAGA
 $G G C C A A G G G G G A G A G G A A G G G G G A G G G G G G A A C C G G C$

C G G G GAAGGAACACAGGGGGGAAAAAAAAGGAACCAAGGGG A A C C C CAA G GCCCCAAAAAAGGGGAAGGAAGGGGAAGGGGGG A A G G G GAGGGGGGAGGAAAAGGGGGGGGAAGGAAGGGGAATT AAGGAGAAGACCAAGCAAAGAAAAGAAGGACCGGAAAAAAGG AAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGACGAGGAACC AAAAGGGAGGAGGGAAAAAAAAGGGGGGAACCAAAAGGCCAA AAAAGGAAAAAAGGGAAAAGAAGGAAAGAAGGAAGGAAAAGA A TAGGAGGAAGAGGGAAAGGAAGAGGGGGGAACCGGGAGAAC A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A A A A G G G G G G GGGGGGAAAGACGGGGGGAGGAGGAAGGCCGGAAGGGGCCGG AA G GAAGGAAAAAAAACCAAGGGGAAAACCGGAAGGAGGAAA AA G GAAGGGGGGGGGGAAAAAACCGGGAAAAGAAGGAGAAAA G G A GAAAAGGGGAAGGGGCCGGAAGGGGGGAGAAAGGAAACC AAGGAAAAAAAAGGAAAAAAAAAAAAAAGAGGCCCGGGGGAA CAGGACCCAGAGAAGGAGCCGGAAGGGGAAAGGGGGAAGAGG AC G GAACCAGGGAACCAAAAGGGGGGGGGGAAGGAGAGAGCC C C G GAGAGGAGAAGCCGGCGAAAAGACAAGAGAAAAGGAAAA C CAGAAGGGGAAAAGGAAAGGGCCAGACGGAGGGAAGGAAAG G G G G GAGAGAGGGGGAGGCCGGCCGGCCGGAAAAGGAACCAA G GAAAA $\mathrm{G} A \mathrm{~A}$ GAAAGGAAGGGGGAAGCAGAACCAGGGGGAGCC CAAACCGGAACCAAGGAAGGAACCGGGGGGACAAGGGGCCGG G GAAGGAAGGCCCCCCGGAAGGGGGGAAAAAAAAAAAAAAGG GGGGAAAAAAAACCAACCAAGGAAGGGGAAGGGGAAAAGGAA A A A A A A A A G G G G A A A A G G A A G GAAGGGGGGAAGGAAAAAAAA G GAA A G G GAAGGGGAAAAGGAAAAGGAAAAAAGGAAGGAAGG AAAAAAGGAAAAGGAAGGAAGGCCTTAAGGGGACCCAGGGGA AAAAGGAACCACGGGGGGAAGGGAGGGGAAGGAAAAAAAAGG A GAACCAAAAGGGGAAAAAAAACCGGAACCAAAGAAGGAGAA A G GAA $\operatorname{GA} A \mathrm{~A}$ G G G G G G G G GAAAAGGCAGGGGCACCCAAAGAAA C C A A G G A ACC G G G G A A A A G G G G G GCCAGGGGGGGGGAACC G A A G G A GAAAAAGGGGGGAAAAGACCGGAACCAAGGAAGGAAGG GGGGAAGGGGAAGGAGGGGGGAAAGGCCGGCCGGGGGGGGAG GAGGAAGGCCAAAGCCAAGGTTGGAAGGGGGAGACAGAGGGG G GAACCAAGGCCAAGACCGGGGCCGGAACCCCGAGAAGGGGA A A G G A A A A G G G G G G G G G G C C A A G G G G A G G G G GA GAAA G G G A A AAAAAGAAGACCGGGGGGAAAAAAGGAAAAGGGGAAGAAGAA AA A GCCAAGGCCGGAGAAAAAAAAGGGAGGGGGGAGGGAAGA GGAAAAAGAGGAAAGGGGGACCGGGGAAGGAAAAGGGGGGGG AA G GAAGGAACCCCAAGGAAGAAGGAGGGGAAGGAAGGAGAA A A A A A G GAGGAGAAAACCGGTTGGCCCCAGGGGAAGGAAAAA ACGAAAAAGGGAGAAACCAAAAAGCAAGGGGGAAAACAGGGG G G A A A A G G G GAGAGGGAAGGAAAAGGAAAGGGGGAAAGACGG AAAACCGGGGAAAAAAAGAAAAAGAAAAGGGGACAACCCCCC G GAAGGAAGGAAGACCCCAGGGAAGGAAAAGGATAAGAGCAT AAGGAAGGGAAACCACAGAAAAAGAAGGATAAAAAAACGGAA A A A A A A G GACGGAAAACCAAAAAAAAAAGGGGCAGGGGGGAA GAGAGGAGGGAAGGAAAAAAGGAGAAGGGAAAAAGGGGAAGG C C G G GAA C G G G G G A A A G G G GAAAAGGCCGGGGAAAAGGGGGG C C G GAGCCGAAACCAACCGGGGAAGGAAAACCGAAGAGAACC
 C CAACCAGGGGGCCTTGGGGAACCCCCCAAAAGGAAAAAAGG AAAAAAAAAAAAGGAAGGAACCGGAAGGGGTTGGGGAAGGGG G GAACCAAAAAAGGAAAGCCCCAAGGAAAAGGAGAAGAGGAG GGAAGGAAAAGGAAGGGGGGTAAAAAGGAACCCCGGCCAAAA AAACAAAAAAGGGGCCAAAGGGAAGGCCGGCCCCGAAAAACC G G C C C CAA G G G GAACCAAGGAAAAAGAAGGAAAAGGGGGGGG GAAAGGAAGGCCGGCCGGAAGGACGCCAGGGAAAGAAAGGAA C CACAAAAAAAACCCGGGAAGGCCGGCCCCGGGAAGAAAAAA C C GAGGGGGGGGGGGGCCGGGGGAAAAGAAGAGGGGAAAACC

A A G G A A A A G GCCGGGGGGGGAAGGGGAGGGGGCAGGAGAGAA G GAGAGAAAAAAAGGAGGAAAAGGAAGAGGGGGGGGAAABAA
 G GAAAA A $A$ A A A G G G G G G G G G G G A A A C A G G T T G G G G C C G G G G A A A A A A A A G GAAGGTTAAAAAAGGGAAAGGAGACAAGGGGAACA A A G G GA $A \operatorname{GAAAAAAACAGAAGAAGGGGGGAAAGAAAAGGGGAA}$ GAGAGGAGCCGAAGCCGGAAGGAAAAAAGGGGCCGGGGGGAC CAGGGAAGAAGGAAAGCAAACCGAAAAAAAACAAGGGGGGGG G G A A G G G G G G G GAA A G C C G A C C G G G G A A G G G G G A C C A A G G G G $C \subset G G G G A A A A G G G G A A A A C C A A G G A A G G G G C C G G C C G G G G C C$ GACCGGAACCAAGGAAGACCAAGCAGAAAAGGAAAACCCCAA
 $G G A G C C A A G G G G G G A A A G G A G G G G A G A G A A G G G A A G G G A A A A$
 G GCCGGGGGGAAGGACAAGGAAGGCCAAGGGGGGCCGGGGGG AAGGGGGGAACCAAAAGGAAAAGGGGCCGGAAAAGAAACCGG
 G G G G G G G G G G A A A A G G G G A G G G G G G G G G A A C C G G C A C C A A G G $A C C G C C A A A A G A G A A A G G A G G G C A A A A G C C A A A G A A A A G A A A$ A A G G A A A A A A A A G G A A A A C C G G A A G G C C A G GAGGGAA GAA G A GACAAAAGGGAGGAGGCCGGGGGGGGGGAAAAGGGGAAAAAA
 G G G G A A G G G G G GACAGGGAAGGGGGGAGGGAGCCGGGAAACA G GAAAAGGAAAAAGGGAGAGAGAAAAAAACAGGGGAAACCAC $G G C C G G G G G G G G A C A G A A A A G G A A G G G G G A G G A A A G A G G G G G$ G G G GAGGAAACCAGCCAAGGAAAAGGAAAAGGAAAAGGGAAA A G GA $\operatorname{l}$ GAGGGGGAAAGGAAGGAAAGGAAAAAGAAAACAGAAG G G G G A A G G G A G G G G G G A GAAAGAAAGGAGGGAGACCAAAAA G G G GACCGGAAGGGCCAGAGGGGACAGACGGGGAAAAAAGGCC G G GAAAGGAACCGGGGGGAAAAAAAAGGCCAAAAGGGGAAAA A A G A A G G A G G A A G G A A A A C C G A A A G G G G G GAAAA A A A A G G A A A A GAGGGGGAGGAAAGAGCAAAGGGGGGGAAAAAGACCAAGG GAAACCAGAGGGCCAAGGAAAAGGAAAAAAAGGACCAAGGAA G GCCGGAGAAAAGGGGAAGGTTAGAAGGAAGAGGGGAAAAAA A A G G G GAA A G A G G GAAAAAGGCGGACAACGAAGGGAAGGAGAA G G G G G G A A A A $\mathcal{A} G G A A A A C A C G G G G G G G G G G G G G G A A A A A A A$ G GAGGGAGGGACCCGGGAGGGGAAGAGAGGGGGGCCAAAACAC $C \subset C A A A A A G G A A G G A A G G C C C C A A A A G A G A G G A A G G G G A A G A$
 GAGGGAGGGGGGTTAGCCGAAAAACCGGAACCAAGGGGCCAG AAAGCCCAGGAGTAAAAACCAAAAAGGAGGGGAAGGAACCCC G GTTTTAAAAAAAAGGAAAGCCGGAAGGGGAAAACCGGAAAA $C \subset G G A A G G C C A A G G G G A A G G A A A A A A A C G G A A C C C C A A A A A A$ GACCGGAAAAAAAAAAGGAGGGCAAAAGGGAACCGAAAGAGA A A G GAAAAGGCCAAGAAAAAAAGGGGGGGGAACCGGAAAAAA A A A A A A A ACCAAAGAGCCCCAAAAGGGGGGCCAAGAAAAAGG $G G A G A A G G G G T A G G G G G G G G A A A A A A G G G G G G A A G G A A G G A A$ G G G G G G G G A G G GC C A G G GAAAAAAAAAAAAAAAAACAGGGGA G GAAGGAAACACGGGAGGAAAAAGGGGGGGGGGGAAAAAAGA AACAGAAGGGAACCGGGGGGCAAAAAAAAAAAAGAACCAAGAG G G G G G G G G G G A G A A A A G G G G A A A A A A A A G GAA $A \operatorname{GCGAAAAAGG}$ $G A C C A A C C A A A A A A G G A G A A G G G G A A G G G G A G C C G G G G A A A A$
 GGCCGGAAAGAGAAAAGGTTAACCAAGGCCGGAACCGGAGCA GAGGAAAAGGGAGGAGAGAAAAGGGGGGAAACAGCCAAGGAA
 A A A A A G G G G G A A A A A A A A A GAAAAAAAGGGGGGGGAAGAAA G G G G G G G G G G A A C C G G G G A A G G G G G G G G A G G G G G A A A A C C C C A A AACCGGAAGGCCCCGGAAAACACCAAGGAAAAAAGGG

G G GAACAGGGGGGAGGAGGCCAAAAAAAACCGGAACAGGAC G G G G G G C A A A A C G G G GAA G GCC G GAA AA G GAAGGAAAAGGAA AAAGAAGGGGAAGGAAGGGGAAGGAAAGAAAAGGGGAAGGAA AAAAGGAAGGAAAAAGATGAAAAGGGCCGGAGGGGGAAGGAA GGAAGGGGGGAACCGAGAAGGGGAAACACGGGAAAAGGTTAG G G GAGGAGACGGCCAAAAAGAAGGAACACAAAGGGGGGGAGA G G G G G GCAAAAAAAAGGGAAGAAAGGGAGGAAACAGGAAAGG A A G G G G G A A A G A G G G G A A G G A A G G G G G G A G G G A A A A A A A A A A A GAAGGAAGGGGAAAAGGAAGGGGCCGGGGGGAAAAAAAAAG AGAAAAAGCAGGGGGGGGAAGGAAAAAAGGAACCAAGGAGAA AAAAGCGGAAGGAGAAAAGGAAGGGGCCAAGGGGGGGGAAAA GACAAGAAAAGGAAGGAAGGCCGGAAGAAAAAGGGGAAAGAA G GAAGGGGAGGAAGAGCACCGGGGGAAGACGACCAAACGGGG AAAAGGAACCAAGGGGGGGGTTAACCAAAGAAGAAAACAAGG AA G G G GAAAAAGGGAAAAGGAGAAAAAAAGAAAAAACCAAAA A GAA $A$ GAAAAGGGGGGCCGGGGGGGGAAGGCCGGCCGGGGGG C C C CAA $\operatorname{G}$ G G G G GCCGGGGAAGGAAAAAAGGGGAACCGGCCGG AAAAAACCAAGGGGCCAAGGGGAAGGAAAAGGAAAAAATTAA GAGGGGCCAAGGGGCCGGGGGGCCGGAAAAAAGAGGAACCGG A A A A A G G G G G GAAA $\operatorname{A}$ G G G G G G G A A G G G G A A GAGGGGAGGGAA GGGGAAAAAAAAAGAAGCAAGGCACACAAGAAGGGAAAGAAG G GAAAAGGGGCCGGAATTAAAAAAAAAAGGAACCAACCGGGG CAAAAAGGAAGGCAGAGGGAAAGGACAAAGAAGAGGACGGGG G A A ACCAGGGCCAAAAGGAACCCCAAAACCGGCCCCGGGGGG G GAAA GCCAAGGGAGGGGCCAAGGAAGGAGGGAGGAAAGGCC G G G G G GACCAGACCGGGGAAGGGAGAAGCCGGAAGGCCAAGG CCGGGAAAGGGGAAGGGGCCGGGAGACCAAAGGGGGGGGGAA C C CAA G GACCCCAAAAGGGGAAAAGGGGGGGAGGGGAAGGGG GAAACAGAGGAAGGGAGGCCAAGAGAGGGGAAAAGGGGAAGG AAAAGGGAGAGACCGAAAGAGCGGGGAAAAGGGGGGGGAAAC G G G GAGCCGGGGGGAAGGGGAAATAGAAGGGGAGGGCACAGG GGAAGGAAGGAGAAACGGGGGGGGGGAAAAACAAGGGAAAAA G GAAGGGGGGGGAAGGGGAAGGGGAAGGAAAGAGGGGGGGTT A A G GAC G GAA G G G G G GAA $\operatorname{A} A A A G G C A G G G G C C G A A A A A G G A A$ AA $A \operatorname{GGG} \operatorname{GGGAAAAAAGGAGGGGGAAGGAAGGAAGGGGAAGAAA}$ A A C C C C GAA G G G G GAAAACCCCAAGGCCGAGGTTGAAAGGGG G GCCGGAAGGAAAAAAAAAGAAAAAGGGGGGGAAAGGGAAGG GGCCGGGGCCAAAAAAAAAGAGAGACAGGGGGAAGGAAGGAG G G G G G G G G G G C C GCGGAAAAAGAAGGGGAAGAAAGGGGAAAA G G GAA G G GAGAGGAAAAGCAGGAAGGAACACCGGCCGGAGGA G G A A G G A ACA $\operatorname{G} A \mathrm{~A}$ GCCGGCCAAAAGGGAGAGGGAGGGGGGAC A G C A A A A A G G G G G G A A A A G GAAC C G G G G G G G G G G A A G G G G A GGAGACGGGGGGAAGGAGGGCAGGGGAAAAAAGGAAAGGGGA G GAGAGAACCAAAAAAAAAAGGGGGGCCAAGGGGGGGGGGGG A A A GAACAAAGAGGAAGGCCAAAAGGGGGAGGAAGGAAAAAA G G G G A A G GCCCCAAAAAAGGGGAACCAACCGGAAGGGGGGGA AAAGAAGGGGCAAAGACCAAAAGGAAAAAAAGAGGGAGAAAA GAGGAAAAAGCAAGAGGGGGGGGGAAGGAATTGGGAGAAAAG G G G GAA $\operatorname{l}$ GAAGAGGGGACAAGAGGAAGGGGGGGGGGCCGGCC
 G GCCAAGGAGGGAAGGAGGAGGGGACAGGGACGGGAAAAGGA A G G G G A C C GAGGGGAAAAAAGGAGAAAAGAAA
$11002000-9$ G A G G G G C C G G G G A G A G A A G G A G G A A A A A G G G G A A AAGGAAGCCCCCAAGGAGAGAAGGAAGGGAAGCCAAAAGGAA C C GAGAAGGGGAGAGGAACCAGAGGAGGCCAGAGCCGGGGAA A GCCAAGGAAAGAGAAAAGGAGAGAGACGGGGAAAGAAGGAA AAAAGAAAGGAAAGCCGGGGCCGGAGGAGAAAAAGGAAAAAA ACGAACGGACAAGGGAAAGGAGGAGAAGAGAGACGGCCAGAA G G G G GAGGGGAGGGGGGGGGAAGAAGAGGCAATTGGAAGGAA

A G GAGAGGAACCGGGAAAGAGGAACCAGAGGGCCGGCCAAGA GA $A$ A $\operatorname{A} G A A A G G G G A A G A G G A G G A A G G A A G G C C A A G G G A A A A G$ CAGAGGAACCAAAAAAGAGAAGGAGGGGCCGAGCAGAAAAGA A A G G GAACAGAACCCCGGGGAAGGAGAAAGCAAAAGTTGAAG AA G G G G GAAGAACCAAGGAAAAAACCTTCCAGGGCCGGGGAA AAAGAAGGGGAGAAAAAAAAAAGAAAAGAGAAGAACGGAAAA A G A A A GAA A G A A A A G GCCAAGGGGCCGGAAGGAAAACCAGAA AAAAACAACCGGACGGCAGGAAAAAAGGAAAAGAAGGGAGGG A G G A A A G A G A A A C C A A A A G G G G G G G G C C G G G G G G A A A A A A G G GGGGGGCCAAAAGGGGAAAAGGCCCCGGAAAAGGAAAAAAAA AAAAGGGGAACCCCGGAAGGGGGGAAGGAAGGCCGGAAAAAA
 G G A A A A C C A A A A A A A A A A G GAA G GAATTAACCAAAA G G G G G G C C A A A A G G A A A ACCCCAAGGAAGGAACCGGGGAAGGGGCCGG AAAAGGCCGGAAAAAAGGAAAAGGAACCGGGGAAAAAAAAAA G GAA $A \operatorname{GAA} A A G G G G C C A A A A G G G G A A G G A A A A G G A G A A A A G C$ GAGGAAAAGAGGGGCCAAGAGGCACCAAAAAACCAGGACGGA GCAAAAAAGGGGGAGGGGAGACGGGGAAGGAAGGAAAAGACC GAAGAAGGATAAGAAGGGAGCAAAACAAAAAAAAACGAAAGG A A G G G A A G GAAACCGGGAAAAGGGCCAGAAAACCAAAGAAGG G GAAAGGGAACCGAGAAAAACCGGCCAGGGAAGGAAGGGGAA G G G G G G G GAAA A A GAACCAGAAACCCGGGGGAGAAGGAAGAA A A C C C C A A A A A A A A G GAA $A \operatorname{AGGGGGAACCAAAAAAA} \operatorname{A} A A G G G G G$ A A G A A A G G A A G A C C GAG GAGGGAGGGAAGGAAGGGGGGAGAA A G G G G A A A A G C C A A A A A A G GAAAGGGGGAAAAGGAC GAA A A G A A GAAACAGAAAGGGGAAAACCGGAGGGCCAAAGGAAAGAAA G G GAAAAGAGTAAGGGCAAGGGGGCAATGGAAAAAGAAGACAA AAAGGGAAAAAAAAAAGGGGAAAGAAGAAGAAGGGGA GAAAAA A A GAGAAGACAAAAAGGGAAGAGACCAGGGAAAAACAAAGGG GACGAGACAGCCGAGGGGCCAGGGAAGGAAGGACAACCAAAA GAACACGGAAGAAAGGAGAAAGAACAGGAAAGAGGGBACAAG A GAAGGATAAGGAGGGAAAAGGAAGGGGGGGGAAGAACAAAG
 A G G G G G G A G G A A G A A A G G A A A A A A G G A A A C G G G G A G A A G G G G G G G A G G A G G G G G G G GAC C G G G G G G A A G G G A GACA A A G A C C C C G G A A G G G G G G C C G G G G C C G A A A A A A $\mathcal{A} G G A G G G G G T T G G G G C C$ GGCCAAAAAAGGAACCCAGGAGAGAGCCAAGGGGAGGGAAAA AACCAGAGAGAAGAAAAGAAGACCAAAGGGACCCGAGAAAGA A A G A A A A A A A G G A A G GCCGGGGAAACGAAAGGGGCCAAAAAA G G G A G G G G G G A G G A G A G G A G T A C A C C G G G G A A G A A A C C A G G G AAGGGGGGAGGGGAAGAGAAAAAAGGAAGGACAAACCACAAA A A G A A A A A G G C C G A G A G A A G A G G A G G A A C C G A A A A A G A G G G A A G GAGAAGGGGGAGACAAGGAGAGAGGAAGAAAAAAGAAAGG G G GAGAAAAACCAGGAAGAAACGGGGGGAAAAACBGAGGGGG A GAAAGACGAAGAAGGGGAAAAAAAAAAAAGGAAAACCBGAA G G G G G A A A C A A A A A A A C CAA A G G GCCACAAGGAGCCAA GGGG A A G G G G G G G G A C G GCCAA G GAACCAACAGAAGGACCGACA G G GAGGGGGGAAAAGGAAAAACGAAGGGAAGGGAGAAAGGACAG G GAAAAAAAACCAAAGGAAAGGGACCACAGCCGAGGGGAGGG A A A A G ACAAAAAAGCAGGGGAAAGAAGGGAAAAAAGGAGGGG AAAGGGCCAACCCCGGCCGGAAGGAAGGAAAAAAAAGGAGAA G G G G A A G G G G G GAAAAACCGGGGAAAAGGGGAAAAGGCCAGAA G G A A C C G G A A A A C C G G A A G G A A G G A A G G A A G GCC G G G G A A A A AAGGAAGGAAAAAAAAAAAAAAAAGGGGGGGGGGGGAAGGGG AA G GAA $A \operatorname{GAAAAAAACCGGAAAAAAGGAAGGAAGGGGGGGGGG}$ A A A A A A G G A A A A G G A A G GTTGGAAGGAAAAAAAAAAAACCGG G G G G G G A A A A A A A A A A A A G G G G G G A A C CAA A GAAAAAA A G G G G G G G A A G G A A G G A A A A G G C C A A A A A A G G G G C C G G G G G G A A G G AAAAGGGGTTAAAAGGAAAAGGAAAAGGGGGGAAAAAAAAAA

G G G GAAGGCCAACCGGGGAAAAAAGGCCGGCCAAAAGGAACC G G A A T T G G G G G GAA $A \operatorname{GCC} C G G A A G G G G G G G G A A A A A A G G C A A A$ G G A A G G G G G G G G A A G G A A G G G G G G A A A A C C G G G G G G G G G G G G AAAAAAGGAAGGGGAAAAAACCAAAAGGAGGAAGCCGGGGGA G G G GAA A A GAGAAAAAAAAAAACCGGAAAGGGAGGAGAAGCA G G GAA $A$ A A A A A A A A G GAGGACAGGGGCAAGGAGGCCCCGGGG C G G A A A A A A A G G G G G G G G T A G A G G C C G A A A A A GA G G G G A A G G AACAAGGAGGAAGGAGAGCCAGAGGGAAGGCCGACCCAGGGG A A T T G G G G A A G G G G C C A A A A G A G A A GA G G A A G A G A A G G G G G G G GAAAAAGAAGGAAGGAAGGAAGGAAAACAGAGGGAGGA GAT A G G G A GAA $A \operatorname{Gg} \operatorname{G} \operatorname{GAA} A A A A G G G G A A A A A A C C G G G G A A G A A A A A$ G G G G G G A A G G G GC C G G G G G A G G A A A A G G A A C C A A C C A A G G G G G G A A G G G G G G A G A A A A $A G G G G A A G G G G G G G G A A A A A A G G G G C C$
 G GAGAGCGGAAAAAAACCAACCAGGGAAAAAAAGAGAGACAA GAAAAAGGGGAAGAAGAAGAAGGAAAAAAGAAA GAAGGAAAA
 A GAGCAGGGGGGAGGAAACAAGAAGGAAAAAAGGAAAAGGAT AAAGACGAAGATAAAAACCGTAGAGGAAGGGAAAAAAGAGAG G G G A G GA $\operatorname{G} A \mathrm{~A} G \mathrm{G}$ GAAAAAAGGCCCAAAGAAGGAAAAGAAAAAG T TAAAAACGGGGCAATAGAAAGCCAGGGGACGGGGCAGCCAA G GAGAAAAGGAAGGAACCAGAAAAGGGAGAGAGAGGGAAACAC A ACCAAAAAAGAGGGAAAGGAAAAAAGAACGGTTGGGGAGAA
 A A C C G GCCAAGGGGGGGACAGAAAGGCCAGCCAGAAAAAAGG A A G GAGGAAGAGGAGGTTCCAAGGTAAAGAAAGGAAAAAAAA G GAAAAAAAAAAGGAGACACAAAGAGAAGGAAAACAABAGAG A A A C G G G G A G G GAGGGAGGGCACAAGAGGGGGGGCCAAAGAA
 CAAAGAGGGGGGCCCCGGAGGGCACACAGAAGGGAAGGAAGAG A ACCCAAGAGGGAAGGTTCCGAGAAGACACCAAGCAAGACGG A G G GACCCAACCGGAAAAAAAGGGAACCCCAAGGAAAAG GAA A A A A A GAAA A GACCGGAAGGAAGGAAGAAAGAGGGGGAAAAA G GAA $A \operatorname{GA} \mathrm{~A} C A C A A A G A G G G A A C A A A G G G G G G G G G G G A A A A C A$ G GCCGAAGAAAGGGGGGGACGGGCAAAAAGGGCCGGAAAAAA A G G A A G G A C A G A G A G A A GAGAAAGAGAGGAAAAAAACAAAAA $C \subset C A G A A G G G G G C C G G G G G G A A C C G G G A A G G G G G G G G G G G C A$ G G G GAAAGACAGAACAAGAAAAGGCCGGCCGAAAAGAAAACAC
 GAACAAGGAAGGGGAAGGAGGGGAGGCCGGGGAAGGACAAGG AAGGGGAGAGCCAAAGAAGGCCGGACAGCCGGAGAAGGAGAA A A G G G A G G A GCCGGACAGCCGAAAGAGACCAAAAAAGGGGGC $C \subset G G A A A G C A G G A A G G G G G G C C A G A G A G A A C C G G G G G G G G G G$ G GAA A GAA $A \operatorname{G} G \mathrm{G}$ GAGCAACAGAGAAAAGGAAGAGAGGGCAA GA
 G GACGAAAAGAACAGAGGAGCACACCCCCCGGGAGAACAGAG A A A A A A G G G G A A A A A A G G G GAGGGGGGGC CAGGGGGA GAACC C C G GAA A A GACCGAGAGGAAAAAAAAGGAAACAAAAAAGGGG T T G G G GAA A A G G G GAAAGAGAGAAGGAACCGGCCAAAAGGGG A A A A G G G G A A A A A A G G G G A A C C G G G G G A G G A A A G G G G G G A G G $G G A A C C G G A G C A G G G G A G G G A G A A G G G A G G A G G G G G G G A A G A$ GGCCCAGAGAGAGAAAAAAGGACCGGGGAACCCAAGG
ATTGGAAAAAAAGAAAAAAAAGAAAAAGGCGGAAGAAAAGG
 $A G A C A G G G A A G G A A G G A A G G G G A C A A A A G G G G A G A A G G A G A G$ G GAGGAAAGGCCGGAAAAAAAAGGCCAAAAAGCAGAACAGAG G G G G G G G G G G A GA $A$ A A A G G G A C G GACGGAAACGGGGGGACAA
 $A C G G G A G G A A A G A G G A A G G G G A C A A G A G A G C G G G G G G A A G G G$

G GCCAAAAGGAACCTAAGATTAGGAATAAAAGGGAAAAAAG A A G GCGAGAAAGGGGAGGAGAAAGAACAGGGGAGCCGAAAGG
 AA $A \operatorname{GGGAA} C \subset A A G G A A A G C C G G G G A A G A G G A A C C A A G G C C G G$ AA $A G A A A A G A A G A G G G G G A A G G C A A A A A A A A G A A A A G G C C A G$ A GCC G A A G G G A G G A GAGAGGAGAGAAAAGAGGAGGGGAAAA G A A A A G A G G G G GAGGCCAGCCAGAGACAGGGCCGGGGAAGAAA $G G A A G G A A G G G G A G C C G A G G G G A G G G A A A G A A A G G A A A A G G A$ GAGGCCATCCCCGAGAGGAAGGGGAAACAAAGGGATAAGGGG AAAGAGGAGAAAGGGAGAAAGGAAGGAAAAGGGGGACAAGAA GAGAGAGGCCGGGAAGGGCCGGGACCAAGGAAAAAAAACAAA A ACCCCAAAAAAGGCCGAAGGGGAGGAGGGGGAGGGGAAAAA G G A G A G G G G GCCGGGGGGGAAGAGGGACAGGAGAGAGGAAAA A A G G A A A A GAGGGGAAAAGAAGGGCCAGAAAAGGAGGAGGGG AA $A G A A G G A A G A A A A A G G C G C C A A A G A A G A G G G A A A G A G G A G$ AA $A \operatorname{GGGA} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C A A A A A G G G G A A G G A A A A G G G G G A G A C C G G$
 A GAGAAAGCGAAGACCAAGGGAACAAAAAAAACCCCGAAAAG GAAGGGGGAAGGGGAGGGAAAGCAAAGAAAGGAGGAAGAAGG A A G G A A C C G G A GAA A G G G G G G G A A G G G GAA A G C C A G A G G A G A G G GACAGGGAAAAATTAGAGAAGAAGAGAAGGAGGGAAAGAC A A GAACAAAAGGAAAAAACCAAGGGAGGAGGGAGAGAGAGAG ACAAGGAACCAAAAAGGGAGGGAAGAGAAGAAAGAAAGAAAA A GAA $A \operatorname{GCC} C A A G G C C C C G G A G A G G G A A A A A G G A A A G A G G C A C C$ A A A A A A G G G G A A A A GAA $A \operatorname{AGGAGGGGGAAAGGAAAAAAAGGCC}$
 AAGGGGAACCTTGGCCCCGGAACCAAAAAAAAAGGAAATTGG G G A A G G G A A G A G G A A A A G G G G G A G A A A A $\mathcal{A} G G G C C G G G G G G G G$ AAAACCGGAGGGAGGGAAGGAAAAAAAAGGGAAA GAAAAGAG A G G G G G G G A G A G G G G G T T G A A G A A G G G GAAGGAAAACAAAAA A A GAA A A A A A A A A A GAGGGGACGCCCGGAAGGAAAAGABAAG $C C G G G G G A A T A G G G A A C C G G A A G G C C A C G G G A G G A C G A A A G A$ G G GAAACCAAAAAAGGCGGAAAAAAGGTTAAAAAAGGCAAA C C G GAACCAAACAAAAGGCCAAGGGGCCAAGGAGGGAAGAAA A A A G A A A A A A G GCCAA GAGAAGAACCCCCCAGACCCACAGAA $G G A A A A A A G G T T G G G G G G C C G G C C A A A G G A G A G A C A G G A G A A$ A A GAAA A A A G GAAGGGTTGGAAGAAACCAAGGAGAAAAGAAA GAA A GA $A \operatorname{G} G A G A A A A G G A G G A G A A C C G G A G G A A A G G G G A G A A$ C C A A A A G G G G G GA G A A GAACCCAGAAAGCGAAGAAA GAGGGG AAA $A$ A A A A A A A A A A G G GAAAAAAAGGGAGAAAAAAA AAAAA A $A$ A A G G A A $\mathcal{A} A A A G G G G G G G G G G G A A G A A G G A A G G G G A G G A A A A G$ $A C G G A A G G G A A A C C G G A G A A A G G A A A A A A A G G A G C C G A G G G G$ A GAAATGGACGGAGAAGGGAGGGGGAAACGAGAAAAGAAAAA A A G GCCCCGGAAGGGGCCGGAAGGACGGGAGAGGGGCAAAAA
 GAACGGGGGGGGAAAAAGGGAAAAAGCCGAAGCCAAGAGAGA G G A A C C T A G G A G C C A G G G G G G G G A A G A G A G A A G G A A A A G G G G AC G GAA $A \operatorname{GAA} \mathrm{~A}$ G G A GAGGTAAGGGAAAAGGGGAAAAGGGGAG AAAA A A GAA A A A A GAGGGGGAAAAAAGGAAAGGAGGAAGAAG G GAGGGAGGAGGGAGGACAGGGCAAGAAGAGAGGGGCCAACA G GCCGGAAGGGAGAGGAAAAAAAATTAAAACCAAAAAAAAAA A A C C A A A G A A C C A A A G CAA A A G G G GGCCAAGGCCTTCCAG GA A G G G A A A A GAC G C C G G G G CA $\operatorname{CA} A G G A A A G G A A A A A A A A G A G A T$ G G G G A A A G A GCA $\operatorname{A} G A A C C G G A A G A C X A A G A A G G A A G G A G G G G$ G GCCTTGGGAAGGAACGGGGAAGGGGGGAAAAGGGGGAAAAA AAAGGGGGAGAAAAAAGAGGAACAACGAAGGAGGGGAAAGAC CACCAAGGGGGGAAGGGGAAGGGGGGGAAGGAAGAGGGAGAA A A C C A A A A A A G A A C G G A A A G A A A A A A GAAACCGGAAAAAGAA $C \subset G G A A G A A G A C G G A G G A G G A G A A A A A A A A G G A A C C A A G G A A$

A ACGAGTAGGAGGAAGGAAGAAAAGGCCAAAAAGAGAAAAAC G G G G G A G A A A C A C C T A C C G G G G A A G GTTXAACCCCAAA GAAAC A A GA $\operatorname{A} G A G G G G G G A G A A A T A C A G A A G A A G G G G A G G A A A G G A A$ G GAAGAGACCAGCACAGGGAAGAAAGAAGGAGGGAAAAGGGG G G G G G GAA $A \operatorname{GA} A A G G A A G C A A A A A A A A G G G A G A A G A G A A A A G$
 A A A A A A G A A GAA $A \operatorname{GAA} A G G G G A A A A A A A G G A G G G G G G G G A G A A$ $G G A A T T G G A A G G A A G G A A G A A A G A G A A G C C A A A A G G G G C C A A$ A A G G A A C C A A C C G G T TAAAAAAAAAACCGGAAAAGGGGAAG G AAAAGAAGGGAACGGGAAAAAGAGACAGTACCGGGACAGGAA G GAAAAAAGAGGAACCAAAAAACCAAGAAAACGAAGGGAGGG A GAACCAGAAAACAAGGGCAAAAAAAAAGGGGGGGGAGCCGG G G G GCGGAGAAGGACCAAGGGGAGGGGGAAAAGAGGAAAAGB GAAAGGGGGAAGAAGGAAGGAACCGAAGAGCAAAGGTTACGG $C C G A C C G A A A A G A A A A G G G A A A G G G G A A A A C A A A C C G G G G A G$ A GAAA A A G G G G GAAAAGGAAAAGAGGCAAGGGAAAAAATTAA C CAACCGAGGAAAAAAGGAAGGGAAAAGAAAAGGAAAA G GAAA A GAC $\mathrm{C} A \mathrm{~A}$ G A A G G G GAGGCAAGGAAGACCAGGGGGCAACGGGG $A G A A C C G G G A G G G A A A A G G G G G G A A A G G G G G G G G G A G G G G G G$ G G G G G G G G A A G G A A A A $A \operatorname{GAAAGGGGAAAACXAAGGGGCCGGTT}$ AGGGGGACGGGGGACCGAACAAAAAGAAAACCCCAAAGAATT GAGAAAAGAAAAAAAAAAGGAGGGCACAAAAAGAAGAGGGGG A GAAAAGGAAGGAAAAAACCGAAAGGAAAGAAGGACGAAAAA $G G A A G A A A C A G G A A A A C C A A G G G G G G A A G G A A G G G G G G A G A A$ G G G G C C A A G G T T G GAAAAAAAACCAAAAAAGGAAG GAAAACC A A A A A A G G G G G GAGAAAAAGGAAACCAACCGGTTAAAAAGCA G GAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAAAAAGAGAA G G G A G G G A C C G G G G GAGGGAGACCACACGACATTGGAAAGAA GAGGAAAAAGCAAGAAAACCGGGGGGAGAGAGCAAGAAAAAG A GCACAGGAAGGAAAGAAAACCCCGGGGGGGGAAGGAACAAA GAGGAGACAAGAGGCACCAACACCGGGGCCAGCCCAAACAGBG $A G C C A G A G G G A A A G A C G A A G C C A G G G A G A G G G G G G A G G A A G G$ $C G G A A G G G A A G G G G C C G G A A A A C C A G T A G A A C G G C C G G G A G G$ G G A A G G A A G G G G G G G G G G A A A A A G CAGAAAGAAAAAAA A A A A G CAAAGAAGACAGAGGAGGGAAGGGGGAAGGCCGGGGGGAAAA A A G GCCAACAAAGGCCAAGGCCAAGGCCAAAGAGGGAAAAGG A GAGAGAAGCAGAGAGAAAGAAAAGACCAAAAGGGGCCAGAG AA G GAAAAATGAAAAACCGGAAGATAGAAAAGAAAAGA GAAA A A G A A A A A A A A A A A A A A A A A G G A A A A G GAACCCCAAG GAACA A GACAAGGGAAAACAGAAAGCCGGAAAAAAGGCCAAGAAGCC $G G C A G A A A G G A C A G C C A A A A G G C C G G A A G G G G G A G A G G A G A A$ G G G G A A G G C A A A G G A G G A G A A A A A A A GAAC GAA G CAA A A C G G $A G C C A G A G G G A G A G A A G G A C A G G G A A A G G A G C G A A C A A A C G A$ A A A A G A A A A G A GA G GCAGAAGACAAGGAAGGGGAATGAAAAA C C C C G GCCAGGAGGGAACAAGAGGAAAAAGGAAAAAAAAAGG G G G G A T G A A A A A G G G A A A G G G G A A A A G G G G A A G G C C A A G G G A G G G G G G G G GACCGGAACCAGACGGAAGGAAGGCCGGAAGAAA C C G GAAAAGGAGAGGGGGAAAAAGCCGGAGAAGGAAAAAAAA AAAAGGGATTCAAAAAAAGAAGGGAGAAAAACATAAAACCGG A A A A A A G A A A G A A GAGACCCGGTTAGAAAAAAAA GGGGGCAG A G G A G A G G A GCGC CAGAAAGGGGGGGGGAAGGAACCAA GATT

A A A G G A A G A C C G G A G G A GAGGAGGGGGAACCGGGGGAGCGA A GACGAGGCCGACCGAAGGGCAGGGGAACACAGAGGGGGAGG G G G GAGGGAAAAAGGGAAAAGGAAGGAAAAAAGGAAGAAAAG G GCCCAAGGGAAAAGGCCGAGGCCAAAAGGCCGGAAAATTGG A GCGAAGGCAAAAAAAAACCCCAAGGGGAACGGGAACAAAT T A A A A A CA G A A A GAA A A G GAACA GA GAGAAGGGGGGGAGACGC GGGAAAGGAAGAGGCAGGAAAAAAGGGGAGGAGAAAGAAGAA

AGCCAAGGAGAAAACCCCGGGGCCGGGAAGAGGAGGGGAGAA A A A A G GAAAAGGAAGGCAAGAAAGCCGGGGAGTTAAGAAAGG G G G GC G A A G G G A A GAAAA A GAA CAAGGGGGGGGAAGA GAAAAA G G G G GCGGCCAAAGGGAGAGCCAAAGGGGGAAAAGGGGGGGG GAGGAACAGGGGCAGAAGGGAAAAAACCAAAAAAGGAGAAGG A A G G A GACAGGGCCGGGGCAGGAAAGGAAGGAAAAGAAAGAG G G A A G G A A C A A G G G G G A A G GAA $A \operatorname{AGGGGAGGGGAGGAGACCC}$ AAAGAGAAGGGGCCAAAGAAGAGGAGGGAAAGTTCCGGCCGG G G G G A A G G A A G G A A G G G G G G G G A G A A GAA A A GAAAA A GAAA A G GAAGGGGAAGAGAGGGAGAGAAGGGACCAGAAATTGGGGGA
 G G G G A G A A G G G A G A C C G GAGGGCCGGAACCAAAAGAAAAA GA A A A A G GCCGAGAACGAGAAAAAGGAAATCCCAGGAAGAAACC $G G G G A A G A C C G G G A G G G G C C G A G G G A G G G G A A G A A A G G A A C A$
 AAAACCGGCCGGAGGAGAAGAGCAAAAAAACAGGAAAAGAAA $A C C C G G G G A A A G A G G A C C G G A G G G A A G G G G G G A A A A A G A G A A$
 GAGGAGCCGGCCGGAAGGAAGAAGACGGGGGGAGAACCAAAG C CAA AGGCGAAACGGAGAGGACAAAAAGAAAACCGGGGAGAA
 GAGGAAGGCCAACCAGGGAGGGGGAAACGAAGAGAAGAGGCC G GAGCAAGGGAACCGGAAAAAAGGGGAGAAGAACCCCCBGGA C A A A A A A G A G G A GA $A \operatorname{GGGGAAGGAAGGGGGGAAGGGACAAAAA}$ A CAG G GAGGAGAAGAGAAAAAGAAGAGGGGAAAAAAGGGGGG G GCCAAGGAAGGGGGGGAGAGGAGAGAAAGAAGAGGAAAAAA AAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGCCAAAGCC GAGGGGGAAGGGCCGAAAAGGGGGAAGGAGAGAA GAGAGA GA C C G G G A A A GAGGGGACAGGAGAAGGGACGGAAAAAAAAAAAG G G G G A A G G G G G G GAGAGAAGAACCAAAAAGCCAAAAAGGGGG G G G A G A A G C C G G A A G G G A A G G G A G G G A G A A A A G A A G A G A A G G G G G GAGGGGGGAAGGGGGAAGGGGAAAAGAAAAAGAGACAAA A A A GAAAGAAGGGGGGCCACAGGGGAGGAAGGCCAAAAACAAA A GAGGACCAACCGGGGGGGGGGCCAAGGGGCCAAAAGGAAGA C C G G G G G G A A G A A A A A G G T T G G A A GAA G GAAA G GAAAA G G A A GAAGGGCCCCAGGAGAGGAAGGAGGGCAGGAAACGAAAAAAG AA $A G G G G G G A G A G G G A G G A G A A G G A G A G A A G A A G A G A G C A G G$
 G G A G G G A G A G G G A C A G G G A G G G A G A A G G C C G G T T G GAA C C A A A A A A A A G G A A A A G GAA $A \operatorname{G} G A A A G A A G A G G G A G A A A C C A A A A G G$ A A G G G G G G A A C C G A A G G A G G G G G A A G G G G G A GA A C C A G C C G C GA G A A A A A A G A A A G C A G G A G G G G A G A A A G A G G G G A G G A C C G G AAAAAGGGGAGAAGACAAGAAGGAGAGAAACAAAAAAACAGG A A G G G A A G A G G G G G G G G G G G G G G G A G G G A A A G C G A G G G C C A A A A ACAA A GAAAGCAGAGGAAAAGGGACCGAAGACAAGAAABA C C G A A G A A A A A A A A G G A A A A G G G G A A A A GAGGGAAA GAA G G G A A A A C CA $\operatorname{CAAAAAGGCCGGCCGGGAAGAAGGAGGAAAAAGGAA}$ G G G G G G A A G G G G G G A A GAGACCCAAAGAGGGGAAAAAGAGCC GAGAAAGAGGGAAAAAAGAGGGCCCCGGGAAAGGGGGGAACA G GAGACAGGAAAAAAGAAGGGAAGAACAGGAAGGAAGGAAAA G G G GCAAAAAGGGGGGAAGAGAAAGGCCGGAAAAGGGGAGAC G GAGGGACGGAAAGAACCAAAAGGGACCAAGAAAAGAAAACA G G G G A A C A GACCCCAGGAAGGGGGGAGAAACCAAAAAGACAA G G G G G GACAAGGAAAAGAAGGAGGAAAGGGGAGGAAAAAAGG A A A A A GAGAA $\operatorname{A}$ G $A A A A A G A A A A A A G A G A G A G G G G G G A G G G G G G$ GATTAGAGAGGGAAACGAAGGGAACCAAAAAACCGGGGAAAA A A A A A A A A A G A A A A A A G GAAAAAAGGGGAAGGCAAGAA GAAA A G G G A A A A G G A A G GAAAAAAAAAAGGGAAGGAGGAGGGGAA G G $A A G G T T G G A A A A A A A G A A C A A G G G G G A A T T A A C C A A C C G C C C$

A A A A G G A G G G G G G G G G G GC C A A G G G G G G A G GAGGGGACAAAA A A G G G A A G A G G A G G A A GAGGAGAAGGGGGGAAGGAACACA G G GAAAGAAAGCAGGAACAGAAAACCGAAAAGACCCGCGACCAG G GAAGGGGCCAAGGGGACAAACGGGGCAAAAAAAGGAAGAAA $A G C C G G A A A G G G G A G C A G G G G A G A G G A A A A G A A G A A G A G G A A$
 A GCGGAGGGGAGACGGGGAAGGGGGGAAAAGGAACCGAAGGG G G G GAAAAAGAGACGGGAGAGAAAGACAAAAGCAAAAGAAAA GA $A$ A A A A $A G G A G G G G G A G G A G G G G A G G A G A A A G G C C A A A G A A$ $A G G A G G G G A A G A G G G A G G G G A G A A A G G G A A G A A A G G A G A A G G$ G GAGGAGGGCGGAGGGAAAAAAAAAGGAAAAAGGAAAAGGGG
 A ACCAAGAAGCAGCAGGGCCGGCCAAGGGGAGGGGGAAGAAA A GAGCCAACAACAGAAGGCGCCGGGAAAAACCCCAAGGGGGG
 GGCAAGGGAGAGGAGGAGAGAGAGAGGAAAGGACGAGGAACAA $A G C A A G A G G G G A A G G A A G G A G G A G G G A G G G A A A C G E A A A G A A$
 AAAGGGAAAGAAAACCAAAAGGAAAAGGAAAGAAGAAACCTT GATTGGCAAGAAAACAAGGAAAAAAAGGGGGGGGAGAAAAAA A A G GAGAGAGGGGACAGAGAGGAAGGGGCCAGAAACAGGGTT CAGGGGAAAACCAAAACCAGGGGGAAAAAAGGAAAGGAGACAA A GAAA A A A A GAGAAGGCCCCAACCGAAAAGAAGGAAAGAGAA A A A A G GAA A GAAGGAACCGGGGAATTGACCGAACGGGACCAG GAAAAGGGAGCAGGAGCAAAGGAACCGGGGGGGGAAAAAGBC G G G G G G G G A A A GAAAAGGGGGGGGAAGGAAAATTAGGGAGAA G GAAAGAGAGAGAAGAGGAAAAAGGAAAGGAGGCCCAACAAA AAAGGGAAAGAGGGAAGGAAGAAAAATAAGGAACGGGAAAGC ACAACCAGGGAAAAAAAAAAGGAAAACCGGGGAGAAAAAGCC $G G A C G G C A A A A C G G G G G G A A A A G G A A A A G A G G A G A A A A G G A G$ GAGGGAGAGGGAAGAGGGGAACAGGGGAAAAAGGAAGGCCGG AAGGAAGGGAAGGCGGAAAAAAAGATGAAAAGAGCAAGAGGG A A G G G GAA A A GAAAGGCCGGGAAGGAGGAAAGCGAGAAAACC CCCAGCGGGAAGAGCGAGAAGGGGGGGGCCAAAAGAGAAAAG A GAGAAAGAAAAGAAAGGCAAGGAAGCCAGGGGGAAGAAAAG $G G C C G G A A G G G G A A G A G G A A C A A G A A A A A G G G G G G A A A A G A G$ A A A G GA $\operatorname{A} A A A G A G A G G G G G G G G G G A A G G A A A C A A G G C A G G G G$ $C \subset G G C A A G C C G G G A A G A A A A A A C C A A G G G G A A A A G A A A G G G G$
 C C G G G GA GAA $A \operatorname{A}$ GAAAATTACACGAGGAGGGAGAAGGAGAGAA CAGAAAAAACAACCGGAGAACCAAGGGAAGAAGGGGGGGGGA C C A C A A A A A A G G A A A A A T G G G G A GAGAGGA GAG GAA G GA G A A AACAGAGACCAAGGAAGGGGGGGAAACCGGGGGGAAAAAGAA GAAACCAAAGCCGAAAAAGGGGCCAGGGACAAGGACAAGGAAA C CAAA $A$ A $A$ A A $\mathcal{A} G A A G A G A T A G A C A G G A A G A G G G A G G A G A C B A$ GACCGGGGAGAGGAGGGGCCGGAGGGAGAAAAATGAAAAAAG
 G GAAAAGGGGGGGAAAAAAGAGACTTAAGAAAAAGGAAGGGG AAAAAAAAAAGGAACCCCGAGGAACCAAAGAAGGAGGGGGGG A A A A A A G G GAGAGAGAAGGAGAGACCAGCAAGCGAAGGGGGG G GAACCAAAAGGGGCCGGGGCCAAGGACAGCCCCGAAAGAAG GAGGGGTAACGGTTACGGACAAGGGGGGAAGAAGGGA
AGAAGAGAAGATACCGGGGGGAGGAGGAGAAAGGGAGCAAG GGAAGGAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAAAAGG GAGAGGAAAGGGAACAGAGAGAAGAGGGGACCGAAGGAAGGG A GCCGAAAAAGGCAGGGGGGAGCCCAGGAAGAGGAAACAAAA

 AAATAGGAGGAGAAAAAAAGAGAAGGAGAGGGACGAAGACGA

G GAGCCAAGGAACAGGGGGAAAAGAAAGACCCAAGGGGAAAA A A C C A A A A G G A A A A G G G G G G G A A GAGGGGAGGGGGGCCAGAA GGCAAGGAAGAAGGGGAAGGGGCAAGAAAACCCCGGAAAAAA

 A A GAAAACAGGAGGAAGGAAAGCAGGAGGGAGGGACGGGGGG C CAGAAGGGACAAAAAAGAGAAGAAGGGAAAAAAAAGAAAAA $A A C C C C A A G G G G A T A G A A G G A G C A G G G G A A G G A G G G G G G G C C$ A G A A G G A A G G A G A G A G C A G G C C A G A A G G A C A A G G A G A G G G G A AAAAGGAAGGAAAACCGGAAAAAGGGGGGGAGAAGGGAGAAA G GCCACAGGACAGGAAGGAAAAGGCCAAGGAGCCGGAAGGGG A GAGGGAAGAAAAGAGAGGAAGACAGGGGGACGBAGGGAAGAG C C G G G G G G G G A A G G A A T T A A A A $\mathcal{A} G G G G G C C G G A A G E A A G G G G$ G G G G A A A A C C C C G G G G G G G G G G G G A G A G G G G A A G C C A A G G G G $C \subset C C G G A A G A C C G G G A A G G G A C G G A G A A G A G G A G G A G A G C A C$ A G G GAAAAAAAACCAGAAGAGGGGAAACGGAGGGGGGGAGGG
 GAAGGAAGCCCCAGGGAGCAGGGGGGAGGAAGCAAGAGAGGG G G G GAAAGCCGGGGAGAGAAACGAACGGACAAGAAGAAACGB A G G G G G A A A C G G G G G G A C G G G G G G G G G A A C A G G G C C G G A G G G G GAG G A A A G G A GCCAAAAGGAAACAAGGGGGGGGGGAAAGAG GAA $A$ A $G A A A A G A A G A A A A A A A A G A A G A G A A A G A C G G G G G G G G$ A GAA A A A C G G GAGACC GAAAGAGAAAAAAAGGGAAAAGAGGG C CAAAA $A \operatorname{A} A G A A C C A A A A G G A G G G G A G A G G G G G G G G G G A G A G$ A G G G G GA $A \operatorname{T} T \mathrm{~T} G \mathrm{GA} \mathrm{A} A C G G G G A A A A C C A A G G A A A G C A G A A A G G$ G GAAA $A$ A $A \operatorname{G} G A A G G C A C A A A A A A G G G A A G G G G T A A A G G A G A G$ G GAA $A \operatorname{A} A A G G G G A A G G A C G G A A G G A G A A A A A G A A C C C C G G A G$ A G G GAACCGGCAGGGAAGGGGAGGAGAGGAAGAAGGAGAGAA G G G A A A A G A A A A A A GAGGGGAAGGAAAGAAGAAA GAAA G GAT G GAAGAGGAGAAGGGGCCAAGGAAAAGGGGAGAAAAACGAGC A GAGAGGAGAAAGGAAAGCCAAGGACAAAAAAAGAAAACAAA AACCAGGGAGGGCAAGAGAAAACAAAAAAGGGAAAGACAAAT $C \subset A G A G A A A G G G A A A A G A G A A A G G G G G A C G A A A A C C G G G G A G$ A G G G A A A C A A G A A C A A A A G GAA A G G C G G C A G GA A GAA G TAAC A GAGAAAGCAGGAAAACCAGGGAAAAGGCCCCAAGCAAGGAC GAGAGGACAAAGAGGGGGAGAGAGAAACGCAAAAAAGGGGAG C CAGCACAGAGGAAAAAAGGAGGGCCAAGGGGAAGAGAGGGA TAAAAAAAAAAACGGGGGGGCAAGGAGGCCGGAAAAGGGGGG AAAGAAGACCAAAACCAAGAACAACAGAGGGAGGGGGAAAAB G G G G G G A A A C A A GA $A \operatorname{GAAAAAGAGAGACAAGGGGGGGGAAAAA}$ $G G C C A G A A A A A G A A A A A A A A G G C C A G G G A A A A A A A A G A A A C A$ A A A G A A A G GA $A \operatorname{GGG} \operatorname{GA} A A C G G A A G G A G G G A G G A G G G G C A A G B G$ ACGAAGAAAACCACGAACCGGAAAGGAGGAAACCAAAGAAAA GAGAAAAAGGGAGGGGACCCCAGAAAGGGGGGGGAAAAAAGG
 GAAGAAAAGGGGGAAAAAAAAAGGAAAACCGGAGCCACAAAA A A A G G A A G A A A A G G G G A A G G G G G G G G A G A A A A GACA A A C C G G A A C A A A G G G G G A G G G G G A G G G G A G G G G G C C A G G A A A G A A G G A G GAGGGGGAGAGAAGGGGGGAAAACCGGGGCCGGAACAAAAAA C CAA $A \operatorname{GCCC} C G G A A A A C C A A G G G G G G A A G G C C A G G G A A G G A A$ A A A G A A G G A G G GCCGGAGGGAAGAGGGGCCAAGGAACCGGGG G GAAGGCAAAAGAGACGAAGGGAAAAAACCGGAAAAGGCCGG GAAAAGCCCAGGGGAAAAACGAAAAAAAGGAGAAGAGACCCC C C G GAAAAGGAAAAGGGAAGGGAAAAGGGGAAGAAACAAACC AAAGCCGGAAGGCCGGGGCCAAGGAAGGCCGGAAGAGAAAAG AAGGCCGGAACCAGGGAAAACCGGGGAGCCAGAAGACAAAAA
 G G G G A A A ACCAAAAGGAAAAGAGGAAAAGAAGGGAAGAAGAC AAGGGAGGGAAAGAAACACCGGACGGGGGAATAAGAAAAACC

AAGAGGAGCCCCAGAGCCGGTAGGAAAACCAAAAGGCCAGAG GAAAAACCAGAAAAAGGGAAAAAAGGGGACGGGGAGGBACBG A A A A G A G A G G G G G G G G G G G A G A A A CAGGAAGGGGGGGAAAAA G G G GAA AGCCAAAACCAAACAAACCCGGCCAAGGAAAAAAGA G GAA A A G G GACCACAAAGAAGGGGGAAAAAAGAAAAAAGGGG G GAATXGGGACCGGGGGGGGAAGGGGAAAGAGCCACGAAACA GAGAAACCGGAGAGGAAAAGAGCCGGGGAAAAGGAAACAAGA AA $A G G G G A A G G G G G G G A A A A G A G G C A A A G G G G A G A A G G A G A A$ AACCAGAGGACAAAAAAGCCAGAAAACACCAGGAGAAGACBA CAAGCCAAACAGGAGGAGAGGGAGAACCAAAAAAAAGAATAG G GAA A A G GAGAGAAAAGAGGGAGGAAAAAGAAAAGAGGACAG A A G GCCAAAAAGGGGGGGAAGAAAAAAAAGACAACCGGTAGG A G A A A A A G A G GCGGGGAGAAGAGAGGGGGAAAGGAGAAAGAA G G G G G G A A A A A G GAAAAAAAGGGGCCAAGAAAAAAAGGAGAA AAAAGGAAAATAGGAACAAAGAGACCGAAGAGGAGAACAAAG GAAAGGGGAAGGGGCCAAAGGGAAAAGGAAGGGGAACCGGGG A A G G A A A A G G A A C C G G A G G A G G G GAGAAACAGAAA G TATAAA G G G A A A A G G G G G G G G A A A GAGAACCAACCGGAAGGGGACCC G G G G G GAGGAAACCGGGGAGAGGAGGAGACGGAAAAAGAGAAGA GAGAGAGAGGAAGGAGGGAGGGCAGGGGAAAACAGAAACAGG A GAAGGGGAAGGAAAAGGAGAGGGAAAAAAGAAAGGGACAAA G G A A A A T T A A A G G G G G G G G G G G C C A G G A C A A G G G G G T T G G A A
 G G G G G G G G G A A A G G A A G G G A A A C GAACC GAAA A A GAAAC C C C ACAGCAAGAGAAGGGGTTGAAAAAAAAGGGCCAGGGCAGGAG

 G G A G G C G G G A G A G G A A G G G G A A A A A G GAC C G G A G A A A G G A A G
 GACCGGAACCGGACCCGGGGGGAAAGGGCCACCAAGGGACAG A GAGAAACCAAAAGGAGAGGAAGGAGAAAAAAGGGAAAGGGG AAAAAATTGGGGCGAAGAAGAAGGAAAAGGGGAAAAAGAAGG A A GA $A \operatorname{GCA} A A G G A G G G G A G G G G A G G G A A G G A A G A A G A G A A G G$ A A G G G A G A A A C C G A G A GA $\mathcal{A} G G G G G A C A G A A G G G G A A G A A G G G$ A G G G G A A G G A G A G A C C A GAGGAGAGAGAGGGGGGGAAA G G CA A G G A G G A C A A G G G G C A C A G A G G A GAGAAAAGGGGGGGGAACA A GAAA AACAGCAAGAAGGAAGGAAGGGGGGAAAAAAAACCBG G G G G G GAAAACCGGGGAAAAGGTTGGGGGGGGAAGGCAAAGA A A A A A GACGGAAAACCACAGAACCGGGGAAAAAGAGAAAGAA A A A A A A $\mathcal{A} G G G C \subset A A G G G G G G G G G G C C G A G A G A G A G A A A G A A A$ A A A A A A G G A A G GAGCAAAGGGGAGGGTAGAAAAGCCAAAACC T T G G G G A A A A A A A A G GCCGGCCAAAAGGCCAAAACCAAGGCC
 G G G GCCGGGGGGGGGGAAGGAACCAAAAAAGGGGGGAAGGAA A A A A G G A A A A G GAAAAAAAACCAAGGGGAAAAAAAAAAGGAA
 A A G G G GAA A G G G A A A A CA GAAAGGAAAAGAAGAAGACAAG GA GAGGAAGAAAAAAGGGAGGAAGCCAAAAAAAAAAAAAAAAGG $C \subset G G C A A A A C A A G G A A G A A A G A A A A G A G A A A T A G G G A A A A C A$ GACCGAGAAAGAAAAATAAAAAAACCGGAAAGGGAGAAAA GA GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAGA AAACGAACCACAAAAGAGACCCAAAGAAGGAACCGGA
$G G A A G A G G G C C A A A A G A G A G G A G G A A G G G A G G A C A G G A A A A$ G GAA A G G G A GAAGGAGACAGCCGGAGGGGAAGGAAGAAAAGG $A C C A C A A A G G A G A G G G A C C A A G A A C C G G G G A G G G A A G G C A G G$ A A A A A G G A GAGCGGCAAGGGGGCCAAAAGGAAAGGACACCCC
 C C G G G GCCGGAGAAGAAAGGAGCCGGAAGGGGGGAAGAAAGA GAGGGGAAGGAAGAAAGGGGCCAGGACCAAGGCCGGAACACC

AACCAAGGAAAAAAAAGAAGGGGGGGGGGGAGGACAAACACC C C GA GAG G C C G GCC G GAGAAAGGACAGAAACCAAAGGAGGGG GAGGAAAAAACGAAAGGAGAGAGGAAAGCGAAAAGGGGAATA TAGGGAGGAAAAATCATAAAGAGGAAGGGGGGAGAAAACAGG AAACGGGGAGAAAAGGAAGGAAGAGGAGCCATAACCCAGACC
 G G G G G GCC G G A A A C G A G GA GAA A A A G G G G GAAA A G G G GAAAA GAGGGCGGGAGAAAAAAAAAGGAAAACCGGCCAAGAAAAAAA C C G GCCGGGGAAGGAGAGAAACAGAAGACCAAAAGGGGGGGA G GAAAGAGAAGGAAGGCCGGCAGGGGAGGGGGAGAGAGAAGG
 A GATGGGGAAGGAGCACAAAAAAAGGGGGAAAGAAGAGGGGG GAAGGAAAGGGGAAAGAAGACCGGCAGAGGAAAAGGGGAGAG
 AAGGAGACAGGAGAAGAACCAAGGAGGAAGCCGGCCAAGAAA G GAGGAAGGGAACCAAAGGGGGGGGGAAGACAGAGGAAAGAA $A G A G G G A A G G A G G G G G G A A A C C A G G G A A A A G G G G A A A A A G A A$ G G G G A A A A A A G A A A G GAAGGGAAGAAGGAAAAAGGGGAAAAA $G G A G G G A G A A A A A G A G A G G G A A A G A G G A G G C C G A A G A G A A G A$ G G G G G G G A G G A A G G A G A A A A G G G G A A A G G G C C G A G G C C G A G G G G GAAGTTGAAGCCAGAAGAGAGGAGAGCCAAGGAAGAAAAA G GAGCACAAGGGGAAAAAAAAAAAGAGAAGAAAAGAAAAACA GCGGCCGGGGAAAGGGGGAGACAGAAGGGAGGCCCCAAAACC
 G GAACCGGGGACACCGAGGGTTAACGAGGGCAGGGGGGACAA A G G GAA A GAGGGGGCAGAGGGGGGGAGGGAAGACCAGGAGAG GAGGCCAAGGGGGGCCGGGAAGAGACGGAAAAACGAGGAAAA C C G GCCGACCAAACAAAATAAAGGACAAGAAAAAGEAGCGGG
 GAAGAGGAAAAGAGGGGGAAAAAAGGCCAAAAGGGGAAAACAC A A G G G A G A A A G A G G A C A G C A G A GAGAGAAGGAA G GA GA GAC C AAAGGAGGGGCCAAGGGGGGAGCAAAAAAGACAGGAAGGGGG A A GAGGGGAAGGGAAGTAGAAAGGAAAAAAAAAAAAGGTTGA
 CACAAAAAGAGAGGAGAAGGAAAAGAGGAGAAAAAAAAAAAA G G G G A A G G G G G GC C A A A A G G A A A A G G G G G G G G A A A A A A C C A A AA $\operatorname{A} G \mathrm{G}$ GAAAACCGGAAGGGGCCGGAAGGGGAAAAGGGGGGTT AA $A G G G A A A A G G A A G G C C A A A A C C C C A A G G A A A A G G G G A A G A$ A A C C A GCAA $\mathcal{A} A G C C A A G G A A C C G G G G G G A G A A G G C C G G A G G G$ G GAA A A G G A GCCGGGGGGACAAAGGGAAGGAAA GAAGAAACC C CAAC $\mathcal{C} G A G G G A A C G G G G G G G G G G A A G G G G A A A G A A G G G G G A$ GAGAAGGAAGAACCAACCGGAAAAAGAAGAGGCACACAAAAC ACGGGAGAGGGAAGCGAGAAAAAAAGCAAGGAGAGAAGGACA A A GAAAGGGACCCCGGAAGGAAGAAGAGAGAGAAAACCGAGG G G A G G G A A G G G G A G G G A G G G G G C C G G G G G G A G C C G G C C A A $C A$ G G A A A A G G A A A A G G A A G G G G G G G G C C G G A A A A G G C C G G A A G G A A G G A A A A G G A A A A GGACAAGGGACCGGAGCCGGGAGGAA G G G G GAGAAAGAGGGGGAACGAAAGAGAAACCGAAGCCGGACAA A A G G G G G G GA $A$ A A A $\operatorname{A} G A A G G G G G A G G G G A G G G G G A G G A A C A A$ CAAAAAAGGAAAGGGGCCAAAAGAGGGGGAGAAAGGAAAACA A G G GAAGGAAAAAACAAACCGAGAGAGGAACGAAGAAACAAC C C G A A G G G G G G GAAA A CAGAAGGCAAGGGGACCCCGGGGAGAA A A G A G G G G G G G G G A G A A A G G C G A A G G A A C G A C A A G G G G G G G G AAAAAGAGGAAGGAAAGAATGGGGAGAAAAAAAAGGGGAAGG G GAGGAACGAAGACGAGAAAAAAGACCCGGCCCAAGAAAAGG A A A G C A A A G G A A G G G G G G A G G A A A A A C C G G GA G G G G A G A G A A AAAAGAAAGAAAAGAAAAAAGGACAACCGGCGGGGGAACCGG G G G G A A A A A A G G G G A A A A A A A A A A A A T T C CAAAAA G C C G A A G GGAGAACCAGAAGAGAAAAAAGGAGGGGGGAAGGAGGACCTT

A A G G A A G G A A GAGAGGAAGGAAAAGGGGAAGACCGAAGGAGG A G G GCCGGAAAAAGGGGGCCGGGAGGGAAGGGAAAGAAGGAA A A A G GAGGGGCAGGAAGGGGAAGGCAGGGGAAGAGGGAAAAG G G GAAAAAAAGGGGGGAAGGGAGGAAGAGAAAGGAGCAAACAC G GAAAACCAAGGGGAAGGGGGGGGAAGAAAAAAAGGAAAAAA G G G A A G G G G GCCAAAGCCGGGAAGGACAGGAGAAAAAA GA GA $C \subset G G C A A A A A A G G A A A G A A G G A A G A G A G G G G A A A G G G G G G G G$ G G A A A A A A A A G G G G A A A A G GCCAAGGCCGGCAAAGCCCACA G
 G G G G T TAAGGAAGAGGGGCAAACCAAAAAGGGAACAACGGAG G G G GAAAAAAACAGAAGGAGGAAGAAAAGGAGGAGGGGCA GA G GAGAAAAAGAAAACCGGGGAAAAAAAAGGGGGCAGAAAAAA G GAAAGCCAAGAGAGGAAGAAAAGGGCCAAGAAAGAGAACAA $G G A A A A G G G G G G G G G G A G A G G A A A C C G C G G G G A A G G A G A A G A$ GAGGGGGACCGGGAAACGAAGGGGAGGAGGGGAAAAAAAAGA AA $A$ A A GAACCGGGAAAGGGGGAGGAGGAGAGAGAGGAGAGAA ACGAGAAAAAGAGGCCGAAGGGAAGAGATAAGAAAAAAGGAA G G A A G G G G G A G G C C G G A A G G G A G A G G G G A A A A G A G A G G G G G G G G CAG G G G A A G GAA $A \operatorname{G} G A A A A A A C A A A G G G G A A A A G G A A T X C C$ ACGGGGAAAAACACAGACGGGGGGAAACGGAAGAGAABAGAA C GAA $A \operatorname{GA} \operatorname{A} A A C C C C G G A A C A G G A A A A A G A A G G A G A G G A G G G G$
 G G G GCCGAGGGAAGAAGAAAGGGGGGAGAGGCATCCGAAAGG AAGGCAGACCCCGGAAAGAAGGGGCCAACCAAGGAGAGGGGA $G G T A A G C A G G G G A A A A A A G A G A G A A G G G A A A A A A A G G A A A A G$ T T GACACAGAAAGGAAAAGGAAGAGAGGCCAGGAAGGGACAA GGAAGAGGCCCAAAGGAAGGAACCGGCCAAAAGGCCAACCBG G G GA A G G GCC $C$ G $\operatorname{CA} A A A G G G G G G G A C C G G G G G G A A G G A G A A A A$ A GAGAAGAAAGACCGGAGCAAGGGGGGAAAGGAAAGAAGGAA $G G A C G G G G A A G A G A G G G A A G G G G G G G A G A G G A A G A G G G G G G G$ A G G A T T A A G G A A C C G G A A G G C C G G G G C C G G G A G G G A A G A G A G GAGAGGAAGGGAAAGGCCGGAAAGAAGAGAACCAAGAAACAA A A A GAA A GAGAAGGGGGAAGCCGGAAAGAAGGGGGGAAAAAG CAGGAACACAAACCAGAGAGGGGGCCAAAGAGAGGAGGAGAG
 G G G G A A G G G G A A G G G G G G G A A A A G C G G A C A A A G G GAA G G G G G A GAA $A \operatorname{AGGGGAA} C \subset G A A A G G G G G G A A G G G G A A G G A A A A G G G G$ AGGAGAGGAGCCCAGACCGGGGAAAAGAGCCAAAAAAGAGAA A A G G G A A G A A A G G G CACAAACAAGAAGAGGAAAAGGAGAGAA GAAAAGACAAGGGGAATTAAAGGCAACAAAGGAGAACAGGAA A G GACCGAAAGGAGAGAAAAAAGGGACCGAGGGAAGAAGGAA G G G G A A A G GAA $A$ A A GAGAAAAAAAAAAGGAAGGGGGAGA GACAC G G G GAGAGGAAAAAAGCCGAGGGGGAAAAAAGAAAAAAGGAC A GAGAAGGAAAAGGGGGGAAGGAGAGCAAGGGCCAAAGGGGG
 $G G A A A G A G A A G G G G A A A A A A A A G G G G A A A A A G A G G G A A A G G G$ G G G G G GAA A G G G A A A A A G A A G G G G C C C C G GA $\mathcal{A} A A A G G G G G G G$ G G GAGGCAGACCGGAAAACCGGGGCCGGAGAAGAGGAGEGAA AAGGGGGAGAGGACACACAAAAAAAAAACCGAAGGGAACCAG GAGGAAAGGAGAGGAAAAGGCCGAAAAGAGCCAAAAGGAGAA G G G GAAACAGAAAGGGAGGGCGCCGACAGAAGGAAGACAGAA A A CAG $A G G \operatorname{GA} A G G G G C C A G A A G A A G G G G G A G A G A G G G G$
 GGGGAAAGAAGGAAGAAGATAAGAGGGGAGAGAAAAAAAGGG $A G A G A A G G A C G A C C A A G G G A G G G G A A G G A C G G G G A G G A G A G G$ A GAACCAGGGAAAGAAAAGGGGGGGGGGGACCGGAACAAGAA GAAAGGGGGAAGGACCGGACAAAAGGCAAAAAGAGAABAAAG A A G G G A A A G GAA $A \operatorname{GGG} G A A A C A A A A G G A C A A A A G G G G A G G G G G$ $C A C C G A G A A A C A A G A G A G A G G A G G T T A A A A A A G G G G A G T A G G$

G GAAAAGGCAAGGGAAGGGGAAAAAAAGAAAAACAGAAAAAG A G GA $\operatorname{G} A A C G G A A G G A A A A A A G G G G G G C C G G G G A G A G A A A A G G$ A A G G C A A A G G A A A A A A GAA A A C G G G G G G G G G G G GACAA G G C C AC GAAAAGGGAAAGGGAAGGAAAAGAGGGGAAGGGGAA G GAAA G G G G G A A A C A T T GA A GAGAAAGTTAAGGGGACA GGGGGGCA G
 G G G GAA A G G G G G G A A A G GAAAAAAAAAAGGCAAAGGGAACAA ACGGGACCGAAGAAAGAGAACCAAAAGAAAAAGGGGCCGGGG G G A A A A G A A G A A G A A G G G A G C A A G G G A GA GAGCAG G T TAA A G G G G GAGAAAAGGCACAAACAAGGGGGGAAGGGGGAAAGAAGG A A G GCCGAAAGAAGGAGGGAAGAGAAAAGGGGTTAAAAGGGG G G G G G G A A A A A A A A G G A A A GAAAAAAAGGGGGGAAAAAAAA G G GAAAGGAAAAGGAACAAGGAGGGACACCAGGGAACACAGAGA A GAACCGGGAAAAAGAAAGGGGGGGGGAAAAAGGCCGGAGAA A G G GAA $\operatorname{A} G \mathrm{G}$ GAAGGAAAGCCCCGAATGGAAAGAAGGAGAAAAA AAAAAAGGAACCGGGAGAAGAAAAGGACGAGGAAAAGACCAC
 A G G G A A C C G G G G G G A G G G G G G A A A G G G A CAGAGGAGCAAAAA $G G G A G G G G A A A G A A A A G G A G G A A A G G G G C C G G A A G G A G A A G A$ A A G G G A G G C A A A G G G A G G C C A A G G C G C C G G A G G G C C G G G G A A A GAGAGAGGGGAAAGGAGAGCGAGCCAGGGAGGAGGAGAGAA G GAGAAAGAGAGAGGAGGAAAAGGGGAGCAAGGGGGAAGAAA $A G C C A A G G G G A A G G A A A A A A A A G G A A G G A A G A A G A G A A A A G A$ GAGAGGAAGAACATCCGGGGAGCAGAGAGAGAGAAAGAAA GA
 CAGAGGGGGGAAAACCGGGAGGCCCAAAGGGGGAAGAAAAGG A A A A A A A A GACC G G G GAAAAGAAAAAGGAGGAAACCGGGAAA C C A A A A A A G GAAAAGGGGCCGGAAAAAAGGAAAAAAAAGGAA G G G G A A A A G GAAAAAAAAGGGGCCGGAAAAGGAAGAAAAACAC
 T T C C A A A A A A C C A A A A A A A A A A C C G G C C G G G G G G G G G G C C A A G G G G G G G G A A A A G G G G G GAA A G G GC C G G G G G G G G G G A A G G G G A A A A C C G A GAAA $A \operatorname{A} A A G G A A C C C C A A A C A A G G G G G A G A G A A A$ A G G G A A G G A G G G G G GAA A A A GAGGAGAAAGCAGACAA GAAAA G GAGGACCCGGAAAGGAAAAAGAGACGGGGCCAAAAAAACAG A A A A A A A G A G A A A A A A A GCCGGGGAAGAAGAACCCACACAAA A A A GAGAAAACCAAACAAGGAACCGGCCGGAACAGGGGGGGG1 AAGGAGCCACAAGGCAAAGGAAGGGAGGGGAGAAAAAGGGGG G G A A G G A A A A G A A C G A A A A A G G G G G G C C G G G G A G G G C C A A G G GAA A A A G G A A G G G G A G G A A A G G A GA G C C A A A G G A G G G G G G A G
 A A G A A A A A GAGAATGGAGCCAAACAAAGGAGAGA GAGAGGAA AAAGGGGAGAAGGGGGACAGAAAAAGGAAAAACCAAAAAAGG G G A A A A A A A A G G G G G G A A A A A A G G G G A A GAAAATCAA GAAAA A A A G G A A G G G G GAAAAAAGAGAGGGGGACAAAGACAAAAAAAA GAAGGGCCGGAGACAGGACAGAGAGGGGAAGATTCACCAC GA A ACCAAAAGGAGAAAAGAAACCCCAAGGAAGGGAACTXGGGG G GAA $A \operatorname{GAAAAAAAAAAGGACCAAGGAAAGGGGAAAAAAAAACA}$ G G GACAAGGGGAGGAGGAAGCCAGGGAAACGAGGAGAAACAC A A A A A A G G G G A A A A A A A A G G G G G A A A G GAAAAAA AAAAC CA A CAAGCAGGAAAGGGGGCCAAGGGAGGCCGGAAAGGGAGAGAG GAGAGGGAGGGACCAAGAACGGGGGACCAGCACACCAAACAA G GCCAGAAAAAAGGGAAAACAGAGAGGACCGAAAAAAAAAAG GAAGAGAAAAGGGGCCAAAACAGGAAGGAGAACCGGAAGGCC $A A G G G G A G A T A G A G A A G G G A A A A G G G A A G G G A G G A A A G A G A A$ G G G GCCGGGAGGCAAGGGAGAAGAAAAAGAAAAACAAAAAAA
 GAAGCCAGAGGACCCAGGGAGAAAAGGGAGAAAAGAAAAGA G GAGAGAGGAGCCAAAAAAAAAAGGAGGAGAAGGGAGGAAAGA

A G G A A A GAGGGAAAAAAAAGCAAAGGCCCAGAGGGGGGCCGG C CAA $A$ A $C A G G G G A C C C A A G A C A G A G G G G G G T A G G A A C C G G G G$
 A GAGGAGAAGAGAGATGAGAACGGAAGGGGGGAAGAGAAAGA A A G GAGAAGGACAAACGGGAGGGGGGCCAAAAGGAGAATTAA G G G G G G A A A A A A A A A A A A A A G G G G A A A A G GCCAA $\mathcal{A} G G G G G A A$ G GAA A G G GCCAAAACCGGAAAAAGGATAGGGGAAGGGAAAAA GAGGGGAAAAAATTAAAAAGAGAAGGAGGAGGAAGGGGAAAG AAACGGGGGAACACAAAAAAAAAAAAAACCGGGGAAAAGGAG AAGAGGAAAGGACAAGGAAAAGAGACGGAAAAGGGGGGAAAA GAGGGGAGCAAAAGGGGGAAAAGGAAAGAGGGAAAGGAAAAA $G G C C A A A A G A G G G G A A A A T T G G G G G A G G A G A A G G A A A A G A G G$ GAAA $A \operatorname{AGGGAA} G \mathrm{G} G \mathrm{G}$ GAACCGGAAGAGAGGCCGGAGGGGAAAAC
 A GACCGAGAAAGAAGACCGGGAGAGACAACAGGGAGACGGGG GAAAGAACAAAGGGAAGGCCGACCGGCCGGAGGAAGGAGAGG
 G GAGGGGAGGAACCAGGAAAGGAGGGCCAAAAGGGAGAAAAG AAGGAACAGGCAAGGAGGGGGAGAGGACCCAGAAGAAAAACC
 GACCAAGAAAGAAAAACCCCAGAAAAGGAAGAAAAAAGGGAA ACAAGGGGGGAGGGGGAAAAGGAAAAGGAAAGGGAACCGGAG G GAAGGAGCGAAGAAGGAAAAGCAGGAGGGAAACGAAAAAGBG G GAGGGAAAAAGAAGAAAGGGGAAAAGAGAACCAAGACAAGG G G G G A A G G G A G GAA A G A A A A A A A G GAAACAGAAA AA G GAACA A G GACAAAAGGAAAAAGCCGGAACCGAAAGGAGGAGGCCAAAA A A GACCAGGAGGGGGGGGGGGGAAAAAAGGGAGGGGGGACAA A A G G A A A A A A G G G G G G A A G G A A A A A G GAA A A GA GAA G G GAA $A$ G G A A A A A A ACAACCGGAAGGAAGGCCAAAAAAAAGGAAGAGA AAAAGGGGAAAACACGCAGGCCCCGGAAAAAAGGGAGGAGGG GAGAAGGGGAAACCCCAGCCGGAGAAGGAAGGGGGGCCGGGG GGAACCCACAAAGGAAGAAAAAAAGGAACCCCAGAGAGAAGA


 C C G GAAAAAGAACCAGGAGGAACCCCAAGGGAAGCCCCAACA
 G GAGGGAGAGGGAAAAAAAAAAGGAGAAGGGAA GGGAAAAGA
 A A G G A A A A A A A A A GACGGGAGGAAAGGAGAGAGGAGAAAA GA $G G A A G G A A A A A A G G G G G G G G G G A G G G A G A A G A G A G A G G A G A A$ G G G G G G G G G G A A C A G A A A A A G G G A A G GAGGAAAGGACAACA $A$ $A G C C A A A G A A G G G G C G A G A G G G C A G G A A A C A G A A A G G G G G G G$ $C \subset G G A A A A A A A A G G G G A G A A G A A C A G C A A A A A G A A G G G C A G G$ A G G G A A A A A A C C C C C C G GAC C C C C G G G GAACAA G GAA G T T G G G G G G G G A G A A A G G G A A A A A A A A A G G G A G G T T G A G G G A G G G G G G A G A G A G A A G G C A G G A CAA $\mathcal{A} G G G G A C A G G A G G G G A A A C C A A A G$ A G G G G A G G A C A GAGGAGGGAGGACAGGGCCAAGAGGGAAGAA CAAAGACCCCCCCACAAACACCAGGAGGAAAAGAAAGGAGAA A A G G G GCC G G G GAA A C A G G GAA A A G G A GA G G G G G G G C C G G G A C C GAGAAGGACCACAGAAAGAAAGAAGCAACCCAGGAAAAGG A A G G G G A A G G A A G GCCGGCAAAGGGGAAAAAACAAGA
GCCGGCCGGAAGGGGCGGAAGGGCCAACCAGGGAGAAAAGG GAAAAACCGGGAGACAGGGGAGGGAAAAAGAAAAAACAGGGG G GCCGGAAAAGACAGGAAAAAAGGGAGGAGGAAGACAAGGBA A GAGAGGAGAGGCCGGAAAGGAAAAGGAGGGGAAGGAAGAGA G GAGAGGGGGAGAACAAGAGAAGGACGAGGCAAGGGCCAGAA $A C A A G A A C G G A G A T G G A A A G A A G A G G A G G A G G G G A A G G A C G G$ G G G G GAAGGAGGAAAGAGGAAGAGAGAAAAGAGGCCAAAAGA

G G G A G A G A G G A G G G A G G G G G A G G G G G A G G G G A G G G G G G A $G A G$
 A GAGAGAAGAAGAAAAAGGAAGACAGGGCCAGCAGGGGAAAA ACAGAAGGCCAAAAAAAAGGGGGGCCGGCCCCAAGGAAAAGG G GAA $A \operatorname{GAA} C A C C G G G G G G G G A A C C C C G G G G A A G G G G G A A A A A$ A A A A G G G G G G G G A A G GCCAAAAGGGGCCAAGGAAAAAA GAAA
 $G G C C A A A A G G A A G G A A G G G G A A A A A A C C A A G G A A A A G G A G A A$ A ACCAAGGGGGGGGAAAAAAAAAACCAAGGGGGGAAAAGGGG G GAAAAAAAAAAGGAACCAAAAGGCCAAAAAAAACCAAGGCC
 A A A A G G G G A A G G G G A A G G G GCCGGCCAAGGAAAAGGCC G GAA C CAAAAAA $A \operatorname{A} G \mathrm{G} G A A A A A A A G G G G A A G G G G A A G G A A A A G G G G G G$ $C \subset G G G G G G A A C C A A G G G G A A A A G G G G A A A A A A G G G G G B A A C A$ AA $A G A A G G G G G G G G G G A A A A G G G G A A A A G G G G A A G G G A A A A A$ G G G G G G G G A A A A G G G G G GAA $A \operatorname{AGAAAAAAAAAGAGAAGGAAGAA}$
 G G A A G A T T GACAAATTAGCAGGGGAACCGGAAAAAAAAAAGG A A G G G G A A G GCCGGGGGGAAGGGGGGCCAAAAAACCAACAAA C C G G A A G G A A G G G G G G A A A A A A A A G G G G G G C C C C C C A A G G A A $C C G A A A A G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A A$ A A G GAAAAGAAGAGGAGGGAAGAGGGCCAAGGTTAACCAAAG
 A G A A G G A C A G A A A $\mathcal{A} G G G G G G A A A A G G C G C C A G G A G G A A A A G G$
 AAAA $A \operatorname{A} G A A C G A G G A A A A G G A G A C G A A A A G G G G A G G G G A A G G$ A A G GAGAGGGCAGGGGCACCGAAAGGGGAACGTTAAGAGGGG A A A A G A A G GAGGAAGGGGGAACAGAGAGAAAGAGCCAGAAAA G GCA G GAGGACCAAAGAGGAAGAAAGGGAAGAGACCTTGAGA A GACAAAAGGGACCAGAAAGAAGGAAGGAACCAAAAGGAABG A A C C G G G G G G A A A G A A G G C C A A GAAAA G GAAAAACAGG G G A A GGCCAAGGGACAGAGGAGGGAAAGGAAGCCGGGGGGAAAGAG G G G G G GAAAAGAGGAAAGGAGAAGGGAAGAGGAGGGGAAAGA A G A A A A G G G G G G G A A A G G C C A A A GAA A GAA A G GACC CAA A G G CAGGGAAAACAAGGGGGGAGAGGGAAGAGAGGGAAGAGAGAA A A A A G A C C G G A G G G A G G G G G A G A G G G G A G G G A G G G G C C A A A A G G G G A C G G G G A A G G G G A A A A G G A A A A GAGGGGGGAAA GACAC G GAAAGAAGGCCGAAGGACCAAACAGAGGAGAAGAACACCCA $A C C A C C A A G G G G A A A A C A G A C A G G G G G A C C A A A A A A G G A G G A$ A G G G A A G G A A A GACA $A$ A A GCCGGGAAAGGGGAAAAGGCCAGAA G G G G G G A A A G A GAAAC GAAA A G G GAGAAGGAC GAA GAGAAG G G G G G G G A A G G G A C C G G A A A A G G C C A G G G A A A A A G G A A G G G G G G GAGAGGGGAAAGGAAGGAAGGAAAAGAAAGGGGGAAAAAAA G G G G G A A A G G A C A GAAAACCGAAGTTGGAAGAAGGGGAAGAT CACCCAGAGGAAGGAGAAGGAAAAGGCAGGCCAACCCCBAGG G G A G A A G G G G G A G G G G C C G G G G G G A A A A G G G A G G A A G G G G A A A A A A A A G G A G A G A A A A A A A G G G A A G G C C G G C C A G G G G G G G G G A A G G G G G G A G G A T T A C A A A G G G A G A G G G G G G G G G G G G G G A C C GAAGGGAGAGGGAAAAAAAGGGGGGGGGCACCAAGGGACCAA A G GAGGCAAACCGAAGAAGGGGGAAAAAGGAACCAAGAAA G G $A$ $A C C A C C A A G G A A A A G G A A G G C C A G G G A G G G C C A A G G G G G G G G$ A A GA $A$ A $A G C C G G G G G G G A A G A C G G A A G G G G C C B A G G G G A G A A$ G G G G G G A G G A G A G A A G G G A A A A A A A C A G G A G G A A G G A A G G G G AAAAGGGGAAAAGGGGGGAAGGGGAAGGCCAAAAGGGGAAGA A A G G G G G G A A G G G G A A A A G GCCGGAAGGAAAAGGAAAA G GAA AA $\operatorname{A} G A A A A G G G G A A A A A A A A A A C C A A G G G G A A A A G G G G B G A A$ A A G G A A G G A A G G A A A A T T G G G G A A G G G G G G G G A A A A A A G G G G
 C CAAAAGGGGAAGGGGGGGGGGAAGGGGAAGGGGAAAAGGGG

G GAAGGAAAAAAAATTCCGGAAAAGGCCGGAAAAAAAAAAGB G G G G A A G G G G G G G G G G C C G G G G A A A A G G A A A A G GAACAAAAA G G G GAAAAAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAGAG AACCGAACAGGGAAACAAAGGGGGAGCCGAGAAGGGGGGGAG G G G GCCAAGGGGAAGGGAGGCCGACAAGAGGAGAAAAAGAGA GAAAAGCCAGGGGGCCGGGAAACAGGAGGATTAAAAAAGGAA GAGGAAGGAGAGGGAGGGGGGAGGGGAAAGGGAAAAAAGGGG GAAGAAAAGAAGAAGGGGGGAATTAAGGGGAAAAAAGGAGAA A A G G G G A A A G A A A A G G G G A A G G A G G A G A A GCCAAAA G G G G C A GGAGCCGGACAAAAAAGAAACCCCGAAGAGAAAAGGAGAGAA A A A A A A A A A C G G G GAAA A A A G GAA $A \operatorname{AGGA} G A G A G G A A G G A C G B$ A G G G G G A A G G G G A A G G A A A A A C A GAGGGGGAGGGCC GAAAAC
 A A G G A A A A G G G G G G G GCC $C$ G G G A A G G GAA A G CAA A G G C G G A A A A A GAGGCCGGAAAAGAAAGGGGCACCCCCCAGACAGGGAAAA
 G G G G G GAA $A$ G A A GAAAGGAAAAAAGGAACACAAACAAGACAA C C A A A A A A A A A G G G G G G GAAAAGAAAAAAAGGCCCCGAAAAA G G G GAGACAAAGCAAGGGAAAGAAAAAACAAGAAAGCAGGAG G GAA A A G G A C A A GAGGGGGGAAAAAAGGAAAAAAGGGGAGAA G G G G G G G G G G G G T T G G G G G G G G G G A A C C G G G G G G G G A A G G G G A A G GAA $A \operatorname{GA} A G G A A G G A A G G C C T T A A G G G G A A A A A A G G A A G G$ A ATTAAAACCAAGGAAGGGGAAAAGGAAGGAAAAAAAAAAGG
 A A G G A A A A A A A A A A A A A A A A G GAAAACCGGGGAAAA G G G GAAA $C \subset G G C C G G C C A A G G G G A A A A A A G G A A G G A A G G G G A A G G C A A A$ AAAAAAGGGGAAAAAAGGCCGGCCGGGGGGAAAAAAGGAAGG G G G GAA A GAA $A \operatorname{AGC} C A A G G A A A A A A A A A A G G A A G G A A C C B G A A$ $A A C C A A A A G G A A G G G G A A C C G G A A G G A A G G G G G G A A G G A G A A$ G G G G G G G G A A G GAA $A \operatorname{GGAAAAAAAAAAGGCCAAAACCCCBGAA}$ G G A A G G G G A A G G G G G G A A C C A A G G G G A A G GCC G G G G A A G G A A A A A A A A A A A A G GAACAAAGAAAGGAGGGAGAGGAGGGAAAAG G G G GCCAGGGCAAAAGGAGAGGCCACAACCGAAAAGGGGGGG AACGAACCGGGGGGGGAAAACCGAAAAAAACCGBAAGGGGCC GA $A$ A $\operatorname{A} G A A G A G G A G C A G G A T A G G G G G G G A A A A G G A A G C B G G A$ $A A G G G G A A G G A A G G A A A A G G G G G A A G G G C C G G A G A C G A G G G G$ G G G GAAAAGGGCACAGGGAGGAAGAAGGAAGAAGCAAGAAGG A A GAAAAGAGAGAGGGAGGGAAAACCGGGGCAGGGAGGGGCC A A A C G G G A A GCCGGTTAGAAAAGGGGAAAGGGAAAACCCCAG A A A A A A G G A A G GCCA $\mathcal{A} A A A A A G G G G A G G G G G G G G G A G C C G G G A$ A G GAA A A A A A A GACGAAGGAGAGGCCGAAAAAAAGGGGCCAA A A C C G GAA $A \operatorname{GGGGGAGAAACCAAGGAAGGAAGGGGAAAAAAAA}$ A A A A G A G GAGAAAAAAAAGGAGAGCCGGCCGGGGAGAAACAA
 CAAGAAGAGGAAGGGGAAGGGGGGAAAAGAGAAGGAGGXAAC A A G G G A A A A G G A A G A A G G GAGGCCAAACCAAACCAA GGGGGG
 ACAAAAGGCCAGCAGAAGAAAAACAAAAGGCCAAGGGGGGAG AAAGAAATGGAGAAAAAACCGGAAGGAAACGGGGGGACAAGAA C CAAAAGGAGGAAAAAAGAGGGAAGCGGAGCCAACAAAAAAG G GAAAGGGAAAAGGGAAAAAAACCGAAGAACCGAAAACAGAC A GAACAAGGAAAAGGAGGAAGGAAAAGGAGGAGAGGC
A A A G G A A A A A A GAAGAAGGAAAACGGGAAGGAGAGAAAAAA AAAAAAGGCCCCAAAACAAAGGAGGGAGAAGGGGTTAAAAAA $C \subset G G G G G G A A C C A G G G G A C C G G G G A G G A C C A G A G A A A A C C A G$ AAAAAGACGAAGAGAGAAAGAAAGGACAGAACAAAAGAGGAG AACCGGAGAAGGAAAAAAGGAAAAGGAAAGAAGGAAGAAAAA A A A A A A A GCA G GAAAA $A \operatorname{A} G A A A G G G A G A A G A A A A A A G G A G G G G$ CAGGGGAAAACCGGCAAATAAAGGAAAGGGGGAACCGGGAGG

GAGGGAGAGAACACGAGAAAGGGGAAAAAGAAAACCCCAGAA GAAAAGGGAGGAGACCAAGGAAGGAAAAAAGGGAGGACGGCC A A G G G GA GAA A A G G GACCAAGAGAAAGGAAGGGGCCAAAAAA G GCCGGAAAGGAGGGGGGGGGGGGAAGGAACCGAGGAAGACG G G GAAAAGGGAAGGCAAACCGGAAGGCCGACCAAGGGAGAGG AGCCGAAGGAGAGGAAAAGGGGAAGGACAAAAAAGGGAGAAA G G A A A A A G A A A A A A G GCCAACCGGAAGGAAAAGAAAGGAGAA
 GGCCCCAATTGACCCGAACCGGAAGGCCGAGACAGAAAGGGG AAAACCAAGGGGCAGGGGAAGGCACCAGCCGGTTCCGGAAGA G GCCCAAAAACCGGGGAGGAGGAGCCGAGAGGGGCCGAAAAG G G G G A A G G CA G GAA $A \operatorname{GGGGAGCCAGAAGGAAGGCCAAAAGAAG}$ A GCCCCAAGGAAAGAGGGAACCGAAGCCTAAGGGGGCAAAAG $A G G A G A G A A G G G G G A A G G G G G G A A A A G G G G A A G A B A G G G G G G$ $C C G G G G C C G G A G A G A A A A A G A A A A A G A A G G A A A G A G G A A A A G$ G GAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} C A G G C C A G G G G A C C C C A G G A G G A A G G G G C C$ G G G GAAAGGAGGAGGACCAACCGGGGAAGAGAAAGACCAAGA A A G GCAAGGGCAGGGGCATTAAAAAAGGCACCAAAAGGBGAA GAGGGACCGAAAAAGGCCGGAGGGAAGAAAGGGACAGGAAAC AACCAAAAAAAAAACCGGAAAAAGGAGAGGAAGGAAGGGGGG AA $\operatorname{A} G \mathrm{G} G \mathrm{GA} A \mathrm{~A}$ GAAGAAAGGGGGGAAGGGGGAGAAAAGGGAAGA ACAGGGAAGAGGGGGAACGGAAGAAAAAAAGACCAAAAAAGG G GAGGAACGACAAGAGGAGAGAAGCAGAGGGGTTAGACAA G G C C G A A G G A A G A A G G A A T T G G G G C A G A A G G A CAA $A$ G A A A G G G G GAAGGACCGAAAGGAAAGCCCCAAAAGAGGAAAGGGGGAAGA A G GAAA A A A A GAGGCAAGCCAAGACAAAAGGGCAAAAAAGGG G G GAGAAGACGGGGGGGGAAAAAAAAAAAACCGGAAAGAGAG
 A GACATAGAGAGGAACGAGGAGAAAGGAGAGAGGGGCCGGAA A GAGAAAAGGGGAAAAGGGGGGAAAAGGCACGCCAAGGACCC CA $\operatorname{G} G A A A A A A G A A G C C A A G G A A G G C C G G A A A A G G G G A A G G C C$ G GAGGGGGAAAGAAGGAGAGAACCAAACGGCCGGGGGGGAAA G G G GAAAAAAGGAAGGAAGGGGAAGGGGAAGGAAA GAGGGAA
 A A G G G G A A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G G A A C C
 A A G GAAAAGGAAAAGGAAACAGACAGAGAGAGCCGGGGACAG G G GAGACCGGGGAAAAGGAAGAGGAAAAGGGGAAAGCCGGGG
 A A A A A C C C G GA A G GAGACCCGGAACCAACCAAGGGGGGAGAA G G A A A C A A A A A A G G A A G G G GAGCCAGCCGGGGGGCCAGAAG G G G G G G G G G G G A GAAAAACCATGGGAGGCAAAAGAGGGAAAAGAG G G G G G G A A G G A A A C A A G G G A A G G G G G C C G G A A G G A G G G G A G A G G G G A G A A A G G G G G G G A A A A A G G A A A A A A A A A G A A A A A GAA A GAAAAAGGGGGGAAAACCGGGGAAAAAAAGAAGAAAGGAGAA
 $G G A A G G C C A C G G A G A A A G C A A A A G C G A A G A A G G A A G A G A G A G$ G GAA A G GAGGAAAAAAGGACCCGACCACGGGGAGGGGGAAGG A GAAAAGGGGCCAGGGAAGGACCCGGGAAACACCAACAGGAA GAA $A \operatorname{AA} A G G G G A G A A G A G G A G G A A C A G C A A G G G A A G G G G G G G G$ G GAACCGGGAAAAAAAGGGGAAGAGGAAGAAGAAAAGGAGGG AA $A \operatorname{GGGGA} \mathrm{G} C \mathrm{C} A A \mathrm{~A} G A C A G G G A A A A C A A A G G A A G G A G G A G G A G$ G G G A A G G G A A A GA G C C A A A A G GAA $A$ G GAAAAAAAA A GAA G G G A GAA A G GAGGGGGGAGGAAGGCAAGCCAGAAGGGAGGGGAAGG G GAGAAGAAGCCAAAAAGAGAGGAGGAGAAGGGGGGGACAAA $G G A A A A A A G G G A G A A A G A A G A G C C G A C A A A G G G G G G G G G G C C$ C CAACCAAAACCGGCAAGTXAGGGAGGGAGGAGAAGAAGAAA G G G A G G G G A A A G G G G A G A A A G G C C G G G GAAAA A G G G G A G G G A AAGGAAAAGAAGAAAGGGGGACACACGAGGAAGGAAGAAAAG

GAA A A A A GAGAAAA GAAAAAAGGGGGGAGAGGCAACGGGAAA G G G G A GCCAGGGGGGGGGGAAGAAGGAAAAAAAGAATAAGCC G G G G G GAA $A \operatorname{GA} A G G \operatorname{A} A A A A A G A T G A A G G A A G G A A A G A A A A C A G$ GAACAGAGGGGGGGAAAACCGAAGGGGGAACCAGCCGGAAGG AAGAAAGGGGAACCAAAAGGCCGAGAAAAACAAAAAGAGBAA A GAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAA GA GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGGAAAAC C G GAA A A GAAGGGGAGAAGAGGAAAAAAAAGGGGAAAAGGAA GACACAAACAAAAAAAAGGAAGAAAAAAGGAAGGAAGAAGAG G G GAGGAAAAAAAGGGGAACCCAAGAGAGAACGGGGAGAAAG GGCCGACAGGGGCCAAGGAAAAGGAAGGAAAAAAGGGAAAAA G G G G G G C A G G G GAAAAAGGAAGAAGGGAGAAAGGCCAGGGGG AGAAGGGGAACCAGCCAGAAAAGGAGGAAAGGCGAAAAAAAA A G G GAAAAAAGGAAAAAGGGAAGGAAAAGGAGAAGGCAAAAA G GAACAGGAGAAAGAAAGAAGGGAGGAAGGCAGGGGAAAAAA G GAA $A \operatorname{GAA} A A A G G G A A A G G G G A G A A C G G G A A G A G A G G A G G G G$
 G G A G A A A A G G G G G G GAAAGGGAAGGGAGAGCCGGACGGAGAA CAGAGGAAGGCAGGAAAAGAAGGAAAACAGACAAGGGGAGAG T T G G G GAAAAAAGGAAGGGGGGCCAAGGGAAGGAGAACCAGG $C C G G A A A G A A G A A A G A A G A A A C C A G A A G G A G A A G A A A A A G C C$ GATTGGAAAGAAAAGGGGAACGGGGAAGAGGGAAAACCGGGG GAGCCCGGCCAGAAAACCAACCGAAGAAAGAAAGGCCAAAAA G GAACGAAGGCCTAAGAGGGAGAGAGAAGGAAGAGAAAGGGG GAAGCAGGAGGAGGAGAGCAAAAGGGAAAGAACCGGAAAGGG G GAAGGGGAAAAGGCCAAGGAAGGCCAAGGCCGGGGGGGGGG G G G G G GCCGGCCGGAAAAGGGGGGAAAAAAAAAAAAAACCGG GGGGCCCCAAAAAAGGAATTGGAAAAAAAAAAGGTTAATTAA A A A A A A A A A A A A A A G GAA $\operatorname{A}$ G $\operatorname{AAAGGGGGGAAAAAAGGAAAAAA}$ AAAAAAGGGGAACCGGCCAAAAGGGGCCCCGGGGAAAAAAGG A A A A G G G G G G A A A A T T A A G G G G C C G G A A G GCC G GCC G G C C G G G GAAGGGGGGGGAAGGGGAATTCCCCCCAAAGCCCCAAGAAA GGCCAGACAGAGAAAGAAACAGAAGGAACCGGGGAAGGAAAC G G T TAA A G G G A A G G G A G A G G G A A A A A G G C A G G G G A A G G A A G A G G A A A G A A G G A A A G G G A G G G G G G G G G A G A A G G A A A G C C A G A A CAGGAAAAGCGGGAGAGGCCGGAGATAGCCGGAGCCGGAAGG ACAACCAAAAGGAAAGGGAAAAAGAGAGAAAAAAAAGGEGAA
 A A C A G G G G GAA A A GAGACGGGGGAGCAGAAGGGGAAAAAGGG A GAATAAAAAGGAAAAACAAGGAGAGAAGGAAAAGAAAAAAA $G G A T A G G A A G G A C C C G G G C C A A A A A G G G G G G G A A G G G A G G A A$ A A G G A $\operatorname{A} A \mathrm{~A} G \mathrm{G}$ GAAAAAGGGGGGGGAAAAAGGGGAAGGGGAAAA G G G GAA A G G GAAGGAAGGAAAAGAGAGAAAACGAAGACAGGG G GAAGGCCGAGGGAAGAACCGAGGGGAAACAAACGAAAAAAA A GAAATGGTTAACAGAAAAGAAAAGGAAGGGGGGGGCATTAA A A G A A A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G A G A A$ AAAACCAAGGGGAAAACCAAGGAGAGAGAACAGAAGGGGGCC GACCAAAACAAGACAAGGAAACGGAGAAAAGGAACCAACAGA CAAA A G G C GAA A GAAAGGGGAGAAGGGGAGAGGAGGAAGACA A A G G G G G GAAACGAGGAGAAAACCAGCACAGGAAAAGCBAAA G G G GCCAGAGGGAGGGCAGAGGAAAGGGAAGGAAAAGGAAGA A A G G G G A C A A G G GAGGGGCCCCCCAAAAAAAAAAGGG
GCCGGGGGGCCAAAGAGCCGGGAGGCAACGAACCCCCCCGG AAGGAAAAGAAGAAAACCGGGGGGAAAAAAGAGGCAAAGAAG A G G A A TAAAAAG AAAGGAGAAAGAAGAGGAAAAGACAAAAA
 CAGGGGAAAAGGGGGAGAATAGAGCCAGGGAAACAAGCACAG AACCACAAAAAAAACCAAGAAGGGAAGGGGGGCAAGAAAAGB G GAACAAAAAGAAGGGGAAGGGGAAGGACCGAAGATGGAGAG

A A GAA A GAGAGGGGGCGAAGGCGGGGAAAAAAGGGGAAAGGA A A G GAA A GCCAAAGAGGGGAGAAACCAGAAGAGGAAACCCGG $G G A G A A A A C C A G C G G G A G A A G A A A A A A A C C A A G G G G A G A C A G$ A G GA $\operatorname{GAA}$ A G A G GAAAAAAAAAGAAAAAGGGAGGGGGGGGAGAA AAAAAAGGCCCCGGGGGGAGGGAAAGAAGGGAAAGAAGAGGG A A G G G GAAAAAAACAAGAGGGGAAGGGGAAGGGGAAGAAA GA ACAAAGGGCCTTGGGGCCCCGAAGGCGAGGGGAAGGAGAAGA G GCGGGCCGGAGGGAGATAAGGAGGGGAGAGCCAAAGGAAAG $A G G G A G G A A C A G G G G G G G A A G A G G G G G G A A G G A A G G G G A A A G$ A G G GAAAACCGGGGAGAAGGAAGGGGGGAAGAAAAGAACABA GGCCTTCGAGAGAAAGAAGGGGAAAGAGAAGGAAGGAAAAAA A A A A G A G A GA $\operatorname{A}$ G A A A A A $C G G A G G G G G G A A G G A A A A G G G A A A G G$
 $G G A A G G C C A G G G G A G C G A A A A A G A G A A A A A G G A A G G G G A A A A$ T TAA A G G G GAACAAAGAGGGGGAGAAGAGGAGGGAACAAAAA G GAAAAGGAGCCAAGGAAAAAACCAACCGAGAAGGAAGCATT A GAAAAGGCCAACCGGGGGGAAAAGGGAAGGAAAAGAAAAAA A A G G G G G G G G A A A G A A A GAA $A \operatorname{A} G A G G G G G C A G G A A C A G G A C A A$ $G G A A A G C A A G A A G A A G A G G G A A G G A A A A A G A A A G A A G G A A A A$ A GAGAA $A \operatorname{AAACGGGAAATTGGAGAAGGGGAAGGAAAAGGGGGG}$ AAGGGGGGAAGGGGCCAAAAGGGGAAGGGGAAGGAACCGGGG G G A A A A A A G G G G G G G G G G C C G G G G A G G G G A C C C C C C A A G G G G GGAACCCAAAGGAAGGCCAAGAGACCCCAAAAAAAAAAGGAG G GAGTAAGAGAAAGAGCCAAGGAAAAAAAGGGGGGGAAAAAA GAGAAAAAAGAAGAGAAAAGAAAGAGGAGGGGAAAAAAAAAG G G G GAAAAGGAAACCAAGAAGGAAAAAACCACAAACGGAAGA
 A G G G G GCCAAAGCAACGGGAGGGAAAAACCCCGGCCGAAAGB G G A A C C G G A A C C G G G G G G G G A A G G A A G G G G G G G G A A A A A A A A AAAAGGAAAACCAAAAGGAACCGGGGGGTTGGAAGGGGGGCC A A G G A A A A G G G GAAAAGGAAGGGGAAGGAAAAGGGGAAAAAA AAGGGGAAGGAAAAAAAAAAGGAAAAAAAAAAAAAAGAAA GA A GAA $A \operatorname{GAA} A \operatorname{A} C A A G G G C A A A C A G A T A A A A A A A A G A A G G G G G C$ G G G G G GAACCGAAAAAAAGAGGGATTTAAAAGGGAGGACCAA $A G C C G G G G G A A G A G G G G A G G A G A G A G G G C A G G A A A A C C G G G G$ ACTTAAAAAAGGGAGGAAGGAAAACAGGCCAAGGGAAAAAAC CAA A A A A A A A G G G GAAGGCCCCGGGGGAGGGGAAGGGGAA GA G G GAAAAAGGCCAAGGGAGGGGGGAAGGCCACGGAAGGACGG
 A A A A G G G A GAA $A \operatorname{GCACGGGGAACCAAAAAACCCCGGAACCTA}$ $G G G G A A A G A A G A A G G A A G A G G G T T A A A A G G A G A G G G A A A G A G$ $G G C C A A A A G G A A A A G G G G G G A A G G C C G G G G G G A A G G A A G A A A$ A A G G G G G G A A G GAA A A A A C C G GACAAGGAAGGGGGGGATTAA C C G G A A A A C C G G G A G G G G A A G G G G A A G G C C A A A G A A G G A A A A

 G GAAGGGGACAGAAAGGAAAAGGGGGAAGGGAAAAAGGAAAA CCGAAGGAAAAGGAGAAGCAAGGAAAAAGGGAAAAAAAAA GA G G G GAAAACACCGAACGGAAGAAGGAAGAGGAAAAAAAGGAG G G A G A A C C G G G A G G A A G A A GAC G G G GAAC CA A A GA G G GAC G A A G G G G G G G G G A GAGGGAAAGAAGAGGAGGGAAAGAAGGACAA C CAGAAGAGGAGAGGGAAGAAAGGGGGGGAGAAAGAAGAGGAG A G G G A A G G A A G G C C G G A A A A G G A A G G G G C C G G G G A G A G G G A C GGCCGGGAGGAGACAAATGAGAACAAGGGAGGGAGGGGCCGG A GAAAGGGGGCCAAGGAAAGAGGGAAGGGAGGAAAAAAAGAC ACAGAGAAGGGAAGAGGAAAAAGGCCGGAAGAGAAACGAGAA G GAA ACGGAAACAAGGGGGGCCAACCGGGGGGGBA$G G G A G G G$ G G G G G G C C G G A A G G G A G G A G G G A A A G GA C C G G A A G G G G A G A $G$ $A G C C G G A A G G G G G A A A G G A T G G A A A A A C G G G G A G A G A G A A A A$

CCGGGGCCACAAACAAAAAAAGGGAACCGGGGGGAGGGAAAC TACAGAACACAAAGAACGAACAAACCGGAAGGAGAAGBAACC A A A A A A A GCACCAGGAAGAAGGGAAAGGGAAACCCCGAAAGG G GCCAAACAAGGACGAAAGGGAGAGAAGGAAACAAGCCAAAA $C C G G G G G G G G C A A A C A G A A C A G G G A A G G A A A G A A A G G G C G G G$ A A A C A A C A G A G GAA GAA G A A A A A A G G A A G GAA GA G G G G C C G G CACCAAGGAAGGAGGGGAGGGAGGAGAGAAACGACCAGAABA G GAAAGGAAAGGAACCAAAAGGGAAAGGAGAAAAGAGGAAGA A G A A G G G G G G A A G A A C G A G G G A G G A A A A G GAAAAA A A A C C A G GGCCAAAGAAGGGGGGGGCAAGGAAGAGGAAAAAAAAAAAAA AAACAGGACAGGGAGAGGGAGGAACCGGAAGGGGAGAAAAGG G GAA $A \operatorname{G} G A A C G A G A A A A A A A G G A A C X A A G G G G C A A A A A G G C C$ A A A A G GCCAC G G A G GAGAGAGACGGGGGGAAAA G G G G G A A G G G G A A A A G A A A A G G GAA $A \operatorname{G} G A A A A G G A G A G A A A A G A A G G C B A C A A G$ GAGGCAAGAGGGGAGGAAAGAAGGGAAGAAAAGGGGACBGGA AACACAGGGAGAAAGGGAAAAAGGGGGGGGAAGAAAGGCCGG TATTCCGGGACCAGGGGAGAGGAAGGAAATAGGGGGAGGGGG GAGGGGGGAAAGGGGGGGCCGGAAAAGAGAACAAGGGGAGGG $G G A A A G G G A G G G G G G A A G C G A G G A G A G G C C G G A G G A A G A A A G$ GAGAGGGAGGGACCGGAAAAAAAAAAGGAGAGAGGAAAGGGG A GACGGGGCAAAAAGGAAGGAAGGGGGGAGACGAGAAGAGAA G GAGAAGGAGAGAAAGAAGGGAAGGAGGGAGGCAAGAAAAGA A A A A A A $\mathcal{A} G G G G G G G C C C C G G A A G G G A G G G A A G A C A C A G A G A A$
 A A C C G G A G A C G G G A G G G G G G G G G G A A C C G G CA A A A A G G C C A A G GAGGGAGAGCCCCAGAAAAGAGGCAGAAAGGGACCAAGGCC $C \subset G G C A C C A A A A A A G G A A G G A A A A A A G G G A A G G G G A G G G G A A$ G GAACAAGAAGGCCGGAAAAGGAGGAAGGGGAAAGGGGAAAG $C \subset G G A G A G G G G A G C A C A A A A A G G G A G A A G G A A G A A C G G A C G G$ C C G GATAAAAGACACCGGAAGAGAAAGGAAAGGGCCATGGGG G G G G G A A G A G A G G G A A A G A C A A A G C CAG GAAAAAT TAAAAAA G GAAGGAAAGAGGAAAAAGAAAAGGAGAAAAAGGAACCCCCC AAGACCGAAAAAGGAAGAGGAAAAAAAAGGGACCAGGBAAAA G G G G G A C A A A G A A A A A A A A GAGACCCCAGGCGGGGGAAAAGA G G G G A A A G A G G A A C A G A A A A CAAGGAGGCCAAAGAAG GAAAA AC C A G A G G G G G G A A G G G G A A A A G G A A A A A A G GAA G GAAAA A A AAGGAAAAAGGAACAAAAAGAAAGCAAAGAGAAGGAGAACAG G GAAA AACAAAGGAGAAGCAGAAAGGGGGGGGCCAGACAGGA
 GATTGAGGGGCCAGAGAAAACAGGGGAAAAGGGGGGGGGGGG G GCCGGGGAAAAAAAAGAGGAACGGGAAAAGAAGGAGGAGAA G G G G A G A A G G G G G G G G A C G G A A A GACGACAAAAAATAACACC AAAACACCAAGGAAGGGAAAGAAAGGAGGGAAGGGGAGGGGG $A C A A G G A G A G G G G G A C A A A G G A C A G C G A G A A G A G G A G A G C G G$ G GAGCCCAGGAAGGGGAAAACCGGAAAAAAAAGAGBAAAACC $A G G G G G G G G A A G G A G G G G A G A A G A G G G A G G A G A A A A C A A A A A$ G G G G A G A G CAAA A A A G A A A A G G G G A G G G G G A G G A A G G A A G G A A G GAAAAGGAAAAGGAAGGGGAAGGGGACAGGGAAAAGAAAAA G G G GAA A A A A A C G G G G GAGAAGAGAACCAAAAGGGGGGTTGG G GAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGGAA G GAAGGGGCCAAGGGGAAAATTGGAAGGAAGAAGGACAGGAA A A A A G A G G A A A G G G GGCACCGACAAAGAAGACAAGGC
C G A A G G G A A A A A A C C G G G G G G G G G G A A A A A G G A A A A A A A A G GGAGGACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGGA G GAA A G G G A A G G A A A A T TAAAAAGAGAAAGAAGGAAAAA GAA A A A A A A A G G G G A G A T TACCCAGAGAGGACCCAGGAAGGAAAA G G G G GACACAGACCAAGGAACAAAGAAAGGAGGAGAAAAA GA $A G C C A G A A A A G G G A G G A A G G G G A A G G G G G G A G G A A A G B A G G G$ A GAGAGGAGGAAAAAACCGGAAGGGGAAGGAAAAGGAAAAAA

G G G G G G G G G G G G G GCCAAAAGGCCAAAAAAGGGGGGAAAAAA AACCAAGGGGAAGGACAAGAAAGGCCGGAAAAGAAGGAGAAC A GTAAAGGAAAAAAAACAGGAGAAAGGACACCAGGAGAAACA AACCCCCCAAAGGGAAAAAAGGAACCAAGGAAGGGGGGGGAA A GAAAAGGAACCAAGGGGCCGGTTGAGAGGGGCCAAGAGGGA G G G G A A A A G G G A A G A A G A A G G G A GAGCCGGAGGAA G G G C C A A AAAGAAGGGGAAAAAAAAAAAAGGAAAAGGGGAAGGAAAAAG AACCAGAAGAGAGGACCCAGGAAGAAGGAAAAAAGGGGAAAA
 AAGAAGAGGACCAAGAAGAGGAGGGGGGCCCAGGGGAAAAGA G G G G G G G G A A A G G G G G A A A A CAA $A C C$ C G GAACCAAATGGAGAA A A A A G GA G G G A GAAA A A A A A A GAGAAAGAGGCCAGA GAGAGGG
 $G G G A A A G G G G C C C A A A A A G A A A A A G G G G G G G G A G A G A G A G A G$ GCGGCGGGGGAAGGGAAAAAAAAAGGAGGGAGGAACAGAGAA GGCAGAACAAAAAAGGAACCGACAGGAAAGGGTTAAAAAGAA
 GAGAAGGAAGAGGGGAGGGGAAAAGGGGGGAGGAGAACAAAG $A C A G G G G A G G G G G G A A C G C C A C G G G G G G G G C C A A A A G G A A A A$ G G C C G A G G G A A A G G A A G G A TAA $A$ G G G G A A C C A A T A G G G G G G G G G G G GAAAAAAGGGGGGAAGGAGGGGGAAAAAAAAAGGGGGGG GAAGACAGAGAGAGAGGGCCAAAACCGGGAGAAAGGGGAGCC G GAA A GAAAAAAAACCACAGGGGAAGCAGAAAAGAAAAGAAA AAAGGGCCAGAAGAGGAAAGAAACGGAACGAAGAGAABAGAG A A G G G G G A A G A A G G A A A A $\mathcal{A} G G G G G A G A C G G A A C A A G A G G G G G$ GAGGGGGGAAGGCCAAAGAGCACAAAAACAAGAGAGAAGGGA AAAAGGCCGGGGAGAGGAAACCACGAGGGGAAGGGGACACAG G G A A A A A G A A A A G G A G A A A A A A G GA GAAA GAACC G G G G G G C C C CAAACGCCCAAGGAAAAGGAAGGAAAAAAAAAGGGAAGGGG $G G C C A A A A G G A A A G G G A A C C C C A G G G A A C C G G A G G G G G A A A A$
 $G G A G G A A G C C G A G G G G C C G G A G A G C C A G G G G G A A G G A A A A G G$

 AAAA $A \operatorname{A} \boldsymbol{A} A A A A A A G G G G A A G G A A A A A A C C G G G A G G G G A G G G A G$ GAGACCGGAGGGAAGGGAAGAGACGAGAAGAGGAAAAAGGAA $G G C C G G A A G G A A A C C G G G A A G G A A G G A G A G G C G A G C A A A A A G$ GAAGGGAAAAGAGGGACCAAGGAGGGGGCCAAGGAACAAACAC
 A A A A G G A A G G A A G G G G A A G G G G A A A A A A G GAA $A$ G A A G G G G A A
 AACCGGAAGGGGGGGGAAGGCCGGGGAAAAAAAAGGAAAAAA G GAAGGCCGGGGAAGGAACCGGGGAAAGAGGGGGAGAAGAAA G GAGGGCCTTAGACCCGGACGAAAGGGGGAAAGGGGGGAGAG G G G G G A A C A G G GA G A A A G G A A G A A A A G G G GAACCA A A GA A A A A A G G GCGGGGAAGGAAAAAAAGAAAAACCAAAGGGAAAAA G G $A$ A A G G GAGGCCAAGGGGGGAGGAAGGGGAAAGGAGGAAGAGAA GAAGAACCAAAAGGAGAGAAGAGGAGACACAAGAGAAGTTGG G G GACCAAGGGGGAGGCAGAAAGAGGAAGGAACCGGGAAAGA G G G C A G G G A G G A A A A A G G A A C C A A G GAGAGGAGGTTAGATGA G GAGGGAAGGGAAGGGAGAGGGGAAGAGAAAAAAAGAAGGAA CCGGGGAAACGGGGGAGGAGAAAGAGAAAAGGAAAAAAAAGG A A A A A A A G GAA $A \operatorname{GG}$ GAAAGAGGGAAAAAACCAAGGATAACACA ACGGGAGGGGGAAAGAAACCAGGGGAACGAGGAGAGAGAAGG A GCCCACCCCAAGAAGGGGGCCCCCCGAGGCGCACAAACAAA G GAG G A C C G G G G G G G G A G G GACACAGAACCGGAGGAA GACAC A A A A TAAGGACCGGGGAAAAAAAGGGGGGAGAACAGAGAACA A GA $A$ A A $\operatorname{A} G A G G A C C G G C C T T G G A A G A A A G G G G A A G G G G A A A G$ $G G C C G A G G G G G G A A A A G G A A A A G G G G A A A A A A A A A A C C G G G G$

CAGGAAAAAAGGCCCCAACCAAAAAAAAGGGGGGAAGGAAGA G G G G A A G G C C C C A A G G G G G G A A A A G G A A A A G G A A A A G G G G G G A A A A A A G G C C A A G G G G A A G G G G A A G GCCCCAAAACCAAGGCC GGCCGGAACCAAGGAAGGCCGGAAAAAACCAAAAGGGGCCAA AAGGGGCCGGCCCCCCGGAAAAAAAACCGGAAAACCAAGGCC A A A A A A A A T T G G G G G G G G A A G G G G G G G G G G A A G G A A C C A A A A G G G G A A A A C C A A G G G G G G G G G G C C A A A A C C A A G G A A A A G G G G G G A A A A G G G G A A G G G G G G A A A A A A G G A A A A A A A A C C G G A A A A A A G G G G G G G G G G A A G G A A A A C C A A G G A A A A C C A A A A G G G G G G $C \subset C C C C A A A A G G G G G G G G C C A A G G G G A A C C A A A A A A G G A A G G$ G G G G G G A A A A G G G G G G G G G G G G C C A A G G A A A A A A G G G G C C G G G G A A G G A A A A G G A A G G A A G G G G G G G GCCGGAAAA G G G G A A G G A A G G G G A A A A G G G G G G A A G G A A G GCCCC C G GAA G G A A A A G G A A G G A A G G G G A A G G C C G G A A G G A A A A G G A A A A A A $\mathcal{A} G G G G G G G G G$ AAGGAAGGCCGGGGAAGGCCGGAAAGAAAAAACCGGCAGAAG CAATAAAAAGCCGGGGAAAAAACCGGGGAGAGGAGAAACC GA A GAAAACCAAAACCAGGGGAAACCGAAAAGAAGGAAGGAGAA G G G G A A A A G G G G A A G A G G A G A G G G G A G A A A G G T T G G A G A A G A G GCCGGGGAAAAGGAAGGCAGCAAAAGGAACCAAGGAAGGCC ACAACCAGAGAAGAGAAGCAAAAAGGATCCGACCCCGAAGEG A GCCCCAGAAAGGACCAGCAAAGGGAGGGAGGGAGGGAGGAG G G A C G G G G G G G G G G G G G G A G G G G A G G A A C C A A A A G G A A A G G A A G G G G G C A A C G A G A A G G GAGGAAAGACCAAGGCCTTGAAA GA AC G G A A G G G G G G G G A G G G G A G G A A A G A A A A G G C C G G G G A G A A A A A A G GAA $A$ G $\operatorname{A} A A A A \operatorname{A} C C A G A G G G A G G G G A G A A C A C A A G G A A$ C C G GCAAGAAAGGAGGGACAGACAAAAAGGGGAAGAAAAAGA GAAGGGAAGGCCGGAAGGAAAAGGCCAAGAAGACAAAGGGAG GAGGAAGGGGGGGAAGGGAAGGAAGGAGCAGGAAAAAAAA GA $A G A A G G G G A A G G G G G G G G A G A G G G A G G A G G A A G G A G A A G G A G$ AACCGAGGAGAGGAGGAAGGAAAAAAAAAAGGAGGGGGGGGG G G G G A C C A A A C C G A C A A G A A A G A GAAAAAA AGGGGGAA G GAA GGGGCCGAAGGGCCGGACCCAAACAGACGGACGAAAGAGGAG GAA A A GAA $A \operatorname{GA} A \operatorname{A} G A C A A G A A C G G G G G G A G A C A A T T G G A A A C$ A G G G G G G A C C A G G A A G A GAA A GCC G GCCACCCCAGGGGCCCC C C A GCCAAAAGGGCGGGAGGGGGGAAAACAGGGGGAAGAGAA G G G A G G G G A A G A A G A G A A A A C C A A A A G G G G G G G A A A G G G G A A A A G G G G A A GAGAGGGGGGGGGAAGAAAGAGAAAAAGAAAGAG A GCAGCAGGGCCAACCAAGGGGTTAAGGAAAAAAGGAAGGGG A A G G G A G G A C A GACAAAGGGAGGGAGAGCAAAGGGGAAAAAA G G CACCGGAAAAAGAAAAGGAAGAGCGGAAGGAGGAGGAAGAG GAAAAAAAGGAAAAAAGAAGGAAAGGAGGGTTCGGGAACAAA GAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACCGGCC A A A A A A A A A A G G G GAAAAGGAACCAGAACCAGAAGGAAGGTT A A A G A A A A A A G GAAC CA $A \operatorname{AGGGGGGAACAGAAGGAGGGAGAAA}$ G G G G G GAGAGACTAAAATAAAAAAGGCCAGGAAGGACCAGAA C C A A G A A G T T C A G A A GAA G GAAAAAAGGAAGACCGGAGAGBA
 G GAGCCAAAAAGGAAAGGGGGGAAGGTTGGGGGGAAGGAGGG A G GAACCCAGACAGGAAGGAAGGAAAGGGGAGACAGGGAAGA GAAAGGACCAAGCCGAAAAAGGGGAAGAACAGGAGAGGAABA A A G G G A G G A A G A G G G G A A G A A G G G A G G G G A A A G G A G G GAA A A A G A A G G G G G G G G A G A G C C G G A G G G G G A A A GAA $\mathcal{A} G G A G$
G GACGCCGGAAAGGAGGGGAGGGGGAGAGAAAAGGAAAAGG CAAGCCAGGGGGAGCCGGGGCAAGGGAGCCAGGAGAGAAAGA A A C A C A G A T T G A A A A A A A G G G G G G A G G A G G A C A A A A G G G G A A G GACGAGAAAGGAGCCAAAAAGAACCGAAGAGAAGAAGAGGG A A G G A A G G G G A A A A C C C A GAAA A A A A G GAGGGGGAAGAAAAA A G G G G G G G A C A A A A G G A G G GA G G A A GA A A A G G G G G G G GAAA A $G G C C A A G G A G G G C C G G A A A A C C G A A A A G A A A A G G A A G A A A G G$

A G G G G GACGGAACCGAGAAACCAAAAGACACCGGAAGGAAAG G GCAAATTGGAGAGGAAGCCAGAAAAGACCAAGGAGAAAGAG AC GAGGCAAGGGAAGAAAAGGAGGAAGGAAAAGGAACCAGAA G G GAAAAACACCGACCAGAAGAAAAAAGAAGAGAGGAGAGAA AA $A G A A G G G C G G G A C C A A G G A A G G G G A C G A A A A G G A A A A A G A$
 G G A A G G G G A A G G G A G G G G G A A A A A G GAA $A \operatorname{ACA} A A G G G G G A G G G$ GAGGAAAAAGAAGGAAAGAGGGCAAAGGAAAGAAAAAAAAGBG $G G A A G G G A G G A A G G A G G G G G G A G A G G A G G C A A A G A G A G G G G A$ G G G G GACCGAAGGGAAGGGGGGCAGGACAGAAGGGGAAGGGG AACCGGAGAACCGGAAGACGAAAAAACAGAGGAGAAGGAAAA G G G G A A A A GC G GAA $A \operatorname{AGAAGGGGAAGGCCAGAGAGAGGGCXAG}$
 G GAAAAGGGAAAAGAGCCAGGAAAGAGAGAGGAAGGGGABAAA GAGGACAGGGGGGGGAGAAAGAGGGACCGAGGGACCAAGGAC AC G GAAAGAAAGAAGGAGAGAGAAAGGGAGGGAGAGAAGAAA G G G A C C G G A A A A G G GAGGTTAAGGGAAGAACCGGGAAAAA G G G GAGGGAAAGGAAAAAAAGGAGAGGGGGAAAGACBAAAGAAA $G G G A A A G G G G G C C A A A G G G A G G G A A G C A A A G A A G A G A G A G G G$ G G A A A G A G G G G G G A A A C A A G G G G GCCGGGGAAAAGACAACAA AAGAGGCCACGGAAAGATAACCGGCAAGAGAGAAAAGGCCAA A GCCGGAAAAGGGGCCAAAAGGAAGGGGAAGAAAGAGAAAAG A G G A G GCCAA GAGGAGAGGAAGGGAGAAACAGAAAAAAGAAG A G T A G A G A G G G G G G G A G G G G C C A A G G A A A A GAGGACAAACA T GCGGAACCACCCAGGGGGAAGGAAGGGGAAGAAGAGAGCCCC
 CAAAGGAAAGAGAGGGGAAGCAAAAAAGGAAGAAGGAGAAAA G G G GAACAAAGGGAAAAACCCGAAAAAAAGAAAAGGCCGGGG A A C C A G G G GAAAGGGGAGGGGGGGGGAAAGAGGAAACAGGAA AAGAGGAACCCCGGGCAGATGAGGAAAAGAACAGAAAAGCAA GAGGAA $A \operatorname{AA} A G C C G G G G T A G G A A G G G G A A A A A A A G A G A G G G G G$ AAAAGGAACCAAACGGACGAGGGAAGAAGGGGAAGGTTAGCC A A G G G A G GCCTTCCGGCCAAGGGGGGGGGAAGGAGGGGAGAA G G A A A A G G GCCAGGAAAAAAAGAGGGGGAAAAAA G GAGAAA G G CAGGGAAAAAGGCCAAGAAGGGGGAAAAAACCGAAACAAGCC AAAGAAGACCAAAAGGAAAAAACCCCAAGGAGAGGAGGAGAG G G G GACGGAAGGGGAAAAGGAAGGGGGAAACCGAGGAAAACA AAAGAGAAAAGGAGAACCAGGGAGCCAAGGAAGAGAAGCCCG C C A G G GA GCC G GAAA A GAACGGAAGGAAGACCACAAAGACAA
 G G G GAGGGGACCCCAAGGAACCAAAAAAAAAAGAACGGGGGG A A G G G G A A A A G GCCAA G G G GAAAACAGCCAAAACAGGGGAAAG AA G G GAAGAAGGGGGGCGGAAACAAATTGCGAGAACGGAGGA A GACAAAAAAGGAAGGAGGGGGGGCCGGGGAAGAAGACAAAA A GCCGGGGCAAGAAAACAAAGAAAGGAGAAGGAAATAGAGAA C C A A T T G G A A A C G A A A G G G G G A G A G G G G A A G G C A G G G G A G G G GAAGAAAGAAAACCGGGGAAAAGGAAGAGGAAGGGAACAGAC
 AAAAGGAGGGGGAGCCAACAGACACCGGGAGGAAAAGGAAAG GAAGAGGGAAGGGGAGGGAAGAAACCAAAGAAGGAAGACCAC GAGAGAGAAAGGGGGGAACCAGAAAAAAGGAAGGAACAACAA GAGAGAAGAAGGGGAAGAAACCAAAGCGGAGAGGACAAAGAG A GCGCCAGGCGCACGAACAGCCGGGGGGGGAACCCCAAGAAA $C \subset A A A A G G A A C C G G G G A A C A G A G A A G A G A G A G A G G A C A A A A A$ GACCAAGAAACAAAAAAAAAAAGAGGGGACGGGGCCCCACAA G G G G A A A A G G G G G G A G G A A A A G G G A A G G A T C C G G G G C C C G A A
 GAAA A $A \operatorname{AGGGA} G G G G C A A A G G G G A A A A A A A A G A G G G G G G G G G G$ G GAAAAAAGGAACCAAGGGAGGGGGGCCGAGACCGGGAGAGG

A A A A A A A A A A A A A A A A A G GAACCCCAAGGAAGAAG GACAAA G GAA $A \operatorname{G} G A G G G G G A A A A G G A G A C C C C C C G G A C G G C C G G A A G G$ A A G G G G A A GAGAGAAAAGAGAGGGGGAAAGAGGGAGAAGAGA G GAGGAGGGGAACCAAGGAAAACCAGGAGGAAGGAAAAAAGA A G G GA GACTTGGGAAGCAAGAAAAGACAGAACGGAAGAAAGAA AAAAAGGGAAAGGAAAGGAAGAAAAGCCAAAGGAAAGGAAAC A A G G A GACAAGGGGGGAAAACCGGCCAGGGAGAAAAAAAACC C CAGGGAGGGGAGGGGGAGGGAGACGACACAGGGGCAGAAAA AAGCCACCGGAAAAAAAGGGAAGAAAGGGGGGCCGAAAAAAG G GAAGGAAGGGGAAGGAAAAAAGGGGGGGGCCAAGACCAGAA AA $A G A A A A A G C A A A G G A A A G A A A A A A A A G G G G G G C C G G A G A G$ GAGGGATAGAAGAAGGAACCGGGGAAGGGGAAAAAAGAAAGG AGCCGAAAAGCCAGAGAAGAAGAGTAAAGGAAAACCAAAAAA A A A A A GAAAAGGAAAGAAGAAAAAAAAACACAA AAAAA G GAAA AAAGGAAGACGAAACCGGAATAAGCCAGGAAGACAAGGAAAA G G G GCCAGAAGGGAAGGGGGGGAAAAGGAGAGCCAAGGAGCC AAAACCAAAAAACCCAAGAGAAAACAAAGGAACCCCGGGGGG G G G A G G A A G G G GAA $A \operatorname{GAAACCGGAAAGATGAGGCCGGGAAACC}$ AAGAAAGGAAAAGGAAGGAGAAGAGACCAAAACCGGCACCAG A ACC G G G A A C G G T T T T G GTTCCAGAAGGAAACCCAAGGCACA GGCCAAAAAGAAAAGGCCGAAAGAGGAGACCAAAGGAAGGGG G GAGAAAGAACAGGGGGGAAGGAGAGAACCCGAGGGAAAAGG AA GAAAACCCAAAGGAGGAAGGGACCAAAAAGAAACGGGGGA A A G G G A G G G G A A A G GAAA A A CAAA A GAGAAGAGAG GAAA A A G A G G G A A A A G G G GAACACCACAGAAGAACAACCCCGBAAAGGG G G G G G G G G G G A A C A G G A A A CACA A A GAGACGGCAAACAA GAA A A A A A A A GAGGGGGGGAAGGGAAGCAAAGGAAGGAAAAAGAG C CAGCCGGAAACAAAAAAGGCAGGGGAGCCAAGGGGACAAAG $A G G G G A G A G G G G G G G G C C A A G G A G C A G A A G C C G A G G G A A G G G$ G G G G A A G G A G A A G G G GAAGAGGGGGGCCAGACAAAAAAAAAA C C G A A A A A A A A ACCAAACAGAAGAGAAAGGGGAAAAGAAAAG AA GAGGAAAGAAAAGACCAATTAGAAGGGGGGGGAGAGAGAG A G G G G A A G A G A A G G G G G A G G G A A A G GAAAAAGGGGGAA GAAA

 A A A A A A C C C C A G A A G G G G A A G A A G G G G G A G G A C C G G G G A A G G A A A A A G G G A G G G G A G G G G G G A G G G A G G G A A G G G A A C C G A A G G GGCCCCAGGGGAGAACAGACGGGAAGCCGGGAGGAAGGGGGG A A A A G G A A A A $\mathcal{A} G G G G G G G A A C C G G G G A A G A A A A G A G A A A G G G$ G GAA $A$ A A A A GAGGGAAAAAAAAAAAGGAGGGAAAAAAAAA AAGG G G G GACGAAAAGGGAAGAGAAAGGGGGACCGGAAAGCCAAGAG G G A A A A A A A A C C G GAAGGGGGGGGCCGAAACCGGAAAAAA GA G G G GA A A A G G G A A A G G G G G GAAAA A G A A G G G G GAAA A A G G C C T TA $A \operatorname{GAAA} A G A A G A A G A A A G G G A A G G G G G G G G G G G A C A A A A G$
 CAAAGAGGAAGGAGCAACAGAAGGGGAGGGGAGGAAAABAAG AAAAACGGAAAAGGAAGGAAAACACAAGAGAGCAAGGGGGGG G GAGCCAAAAGAAAAAAAGGAAAGGAAGAAAAGAACAGAGGA A A GAGAAAAAGAGGAAGGAAGGGAGGCCGGGGAAGACAAAGA G G GACCAAAGAGGGCCAGAAACAAAAGAGGAAGGAAGGAGAA A A G A A A GAAG $A \operatorname{AGA} \operatorname{A} G A G G C G A G G G A G G A A G G G A G A A A A A A C A$ A G G A A A A A CAG GA GAAGGAAAAAGAACCCCACAAGGG
GCCGGAGCACAAGGACAAAGAGAGGAAGGAGAAGGAAAACB AAAGCAAGACAGGGGGAAAAGGGGGGCCAAAAAGGGAAAGAA A GCA C GCCAGGGGGGGGGGGCGGAAAACAAAAGGAAAAAAGA G G GA GACCGGAGAAAGCCAACAGAAGGAACGGAAAAGGGGTT G G A A A A A A G G G G G G G G C C A A A A A G G G G A G G G G A A A A G G C C C C
 $A A T A A A A A A A G G A G G G C C T A A G G A G G G A A A G G A G A G A A G G G G$

AAGGGGGACAGGAACCCCGCAGAAGGCCGGGGAAAGGGGGGG A A A A GAGGGGAGAAGGAGAAACAAAAAAAAAAGGGGGAAAAA ACAAAAAAATAGCCAGAAAGAAGGAAAAAAGGGGGGAACCBG AAGGGGCCGGAAAGAGGAGGCAAGGAGAAAGGAAGGAACAAA AAAAGGGGGGAAGGAAAAGGAAAAGGGGGGGGAAAAAAAAGA G G A A C C C CAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAAA G G A A A A G G A A C C G G G G A A A A A A G G G GAAGGGGAACC G GAAAA $G G A A A A A A T T A A A A A G G G A A G G G A A G G G A A G G G G G G C C A A G A$
 GACCGAAGAAAGGAGGGAAGAGAGAAAAAAGAACGAAAAGAG A A G G G GAAAAGGGGAGGGACAAGGAGGGCACAAGAAGGGAGC G G G G A G A A G G A A G A G G G GA G G A A A A G C C G A G G G A A A G G A A A $C$ A A A A A A A A G G A A G GCCCAAGAAGGAGAAAAAAAA GGGCGGAC $G G A A C C C C A A C A A G G G G G A A A A G G G G A A G G T T G G A A G G A A G A$ G G G GAGAAAAAAGGAAAGACCCGGAGGGGGGGAGAAAAAACC A A A A GAGGGGAAGGAAAAGGGGGGGAAGGGAGAAGAAACAAG $A A G G A G G G C A G G G G G G A A G G G G A A A A G G A A G G A A G G G G G G G G$ G GCCAAGGAAAACCAAGGAAAAGGGGAAAAAAAAGGGGCAAA AACCGGAAAAAAAAAAAAAAGGAAGGGGGGCCCCGGGGAAAAA G G G G G G A A G G A A A A G G G G G G G G G G A A A A C C C C A A G G A A A A A A GGAAGGAAAACCCCGGAAAAAAGGAAGGGGCCGGAAGGGGGG AAGGAACCAAAAGGAAAAAAAAGGAAAAAAGGCCGGCCACAA G G A A C C G G A A G G G G A A A A A A G G G G C C C CAAAA A G G G G G T T C C A ACCGGCCGGAAAAGGAAAAGGCCAAAAAAGGCCAACCGGCC C C G G G G C C G G G G A A G G G G G G C C G G G G G G A A A A G G A A G G A A G G GAAGGGAGAGGGCCAAGGAGAGGGGGGGAAGAGAACGGTXAA A G G GAAAAAAGGGGCCGGAGACGGGGAGAAAGAAAACCAAGB G G A A A GCCAA G G A GAAGGGGAAGGCACCAGAAAAGGCAAAAG $A C G G A A G G G G A A G G G G G G G G G G G G A A G G A A G G G G G G A A C A C C$ A G G GAAGGGGGGCCCAAGAACCGGGGAAAAAGAAAGAGAGAA C C A G A A G G A G G G G A G G A G G G A A G G A G G G A A G G C C G G G G A G G G $C C A G A G G A A G G G G G G G A C A G A A A A G G G G C C A G A G A G G A A G G A$
 A G GA $A \operatorname{GCC} C \subset C C G G G G A C G A G G G G A A G G G G G A G G G G A A G G G G$ A A A C G A C C A C G A G G A A G G G G C A G G GA G G A G G G G G A A G G G A G G G GAAGGCCAAGAAAAAAAGGGGAAAAAAAGGGGGGACAAAGAG G G GAAA A $A$ A A A G $\operatorname{A} A A G G A A G G G G A A G G A A A G A G G G C A A A G A A A$ G GAA $A \operatorname{A} A A G A G G G G G G G G A G C C G G G G G G G G A A A G G G A G G G B A$ GAGGAGAAGAAAGGAGGAAGGGGAGGAAGAGGGGAAAA GAAAA A A G G G A G G A A $\mathcal{A} G G G G G G A G G G G G G G G A A G G A A A G A A A G G G C C$ C C G GAGGGAGAGACGGCCAGAAAGGAGATTGGGGGGAGGGGA GAGGGAGGCCGGGGCCGAGAAGGAGACCAAAAGGAGAACBAA AAAAGGCCAGAGAGACGGAAAAGGGGCAAGGAGGGGCAAAAA G GAGGGACGAGGCGGGAGGAGAGACCGGGGAAAGBAAAGGAA GAAGAGGAGGACAACAGGAGCCGGGGGAATGAGAACAAGGAA GAGGACAGCCGAGGAAAACCGGGGGGGAGGAAAAGGGGAAGG C C A A GACCAAAGAGAGGAGAGAAAAGAAAAAAAAGGCCCCCC GACCAAAGCAAGGAGAGAGGGGGGCCACCCGAAGAAAGAAAG GAGGGGAAAGCAAAGGGGGGACGAAGGAAGCCGGAACCGGGG $A G G A G G G G G G G G G G C C G G G G G G G A C C C A G G A A G G A G G G C C G G$ G G A A C A A G G G G GAG G G G G A A G G A G A A A G C C G G A A A G A C G G A G CCGAAAAA G GAGAAAACACCAGAGAGGAACAACAGGAAGGGG
 G G GAGGGAAGGGGAGGGAAGACTAGGGGCCAAGGAAGGAAGG A A A A A A A G A A A A A A A A A AACGGCCGGAGGAAAAAAAAAAGGG AA G G A A T A A A A A A A G G G GAAGGAGGAAAGGAAAGGGACAAAA A G G G G G G G A GAAAACCAAGGCCGGAAGGGAAGACAAGGAA GA
 AGAGACGGAGGGAAAAAAAAAAGGGGAAAAAGAAAAGGAGAA

A G G G A A A A G G CAA $A A \operatorname{A} A G G A G A G G G G G G G G G G A A G G G G G G G G$ A A A G G GAA A G G G G GAGGGGGACAAACAAGGGAGGGGAACCAA G GAAAAGAGAGAGGAAAGAAAGAGGAAAAGAAGAAAGAAGAA AAGGAAGGAGGGCCGGGGGGCAAAAAGACAAAAAAAGGAAAC AAAAGAGAGGAAAAAGAGGGAGGAAAGGGAAGAAAGAGAACC A GAAAACAGGAGAGGGGGGAGAAGAGAAGGAGAGAACAAACC A A GAGAAGAGCAAGAGAAGGGGAAAAGGGGAACAAGAACCAG $G G A A A G A G C A G G G G A A G A A G G A G A G G C C A A A A A A G G A G A G A G$ G G G G C A G G G A G A A G G G A A A A A G G A G G A G G GA G A GACAA G G G A AGAGGAGGACAGGGAAAAGGAAGAGAAGAAAGCCAAGGAAGG A GAA A GAAA A A GCCGGAAGGAGGAGAAAAAAAAAGGAACCAA G G GAACAGGAACAGACAGACAAAAAGCAGAGAAAAAAGGGGA C C G A A G G GCAAACAACAGAGACGGAAAAAAGGAAGAAAAAG G A A G G G G G G C C G G G G G G G G G G A A A C A G A A G G G G C C C C C G A G G G AAACGGAGAAAGAAAAAAGGAAGAAACCGGCAAGGGAGAAAG A A A A G GAGGGAAGGAAGGGGAAGGAAGGCCCAGGGGAGAACAC GAAGGAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAACAAAAA A A A A A A G G G G T T G G G G G A A G A A A A A A G GAAAAA A CA GACCC C CACAGGAGAGGACCGGGGGGGGAAAAAAAAAAAAAAAAGGAG A GA A A A A G G GAGGAAGAAAGAAACGGAGGGAGGAAGAGAAAG GAAAGGGGGGGGGGGGAAAAAAAAAAAAAAGGGAGAGGGAAA G G GAGGACAAAAAAGGCCGGAAAAAGGGGACAAAACGGAGAAA GAAAAAGGGAGGGGGGAAAGAAGGGGAGGGAGGA$G A G G G G G G G$ A A A A A A A A G G A A A A C C GAA $A$ GAGGGAAAGGAACAACCAAGGGG G G G GAACAGGAGCCAGAGGAGAGGGAGAAGGGGAAGCCAAGAG AACCGGGGGGGGACAGCAAAAAGGAAAACCGGAACCCCAAAA
 A GAGAGGGAAGGGGGAGAAGCCGGAAGGAAGAGAAGGGGGGG A G G A A A G G G G G G A A G G A A G A A G A G A A A G A A A G GAAAAA $A$ A G G GACCCCCCGAACAGGGGAAAGGAGCCAAATAGAGAAGGAAAA CA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A \mathrm{~A} A A C \subset A G G A A G A G A A G G G G G G G G G G A G G G C C$ AAAAGGCCAAGGGAAAGGAAGAAAGGAACCAAGGAAAAGGAA A A G GAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAAGG G G A A A A G G A A G G G G G G G G A A C C G G A A A A G GAAAA A G G G G G C C A A G G G G G GCCCC $C$ C G G G G GAAAAAGGGGAATXGGAACCGGGGAA G G G GCCCCGGGGAAGGAAAAAACCGGCCAAAAGAAAGGGGGG GGGGCCCCGGCCGGAAGGAAAAAAAAGGAAGGAAGGCCAAGG AA G GAAAAAAAAGGAAAAAAGGGGGGAAGGAAGGAAAAAAAA A A A A A A C C G G G G G G G G G G G G T T A A A A A A A A A G G A A G G G G G G A A
 AAAAGGGGGGCCGGGGCCAAAAGGAAGGCCCCGGGGAAAAAA G GCCGGAAAAGGAAAAGGGGAAGGAAAAAAAAAAGGGAAAGAG AAAAGGAAGGGGAAGGGGAAAAAAGGGGGGGGGGCAAAAAGG G G A A G G G G A A G GAA $A \operatorname{GGGGAAGGGGAAAACCAAGGAAAAAAAA}$ G G G G G G G G A A A A A A G G A A A A G G T TAAAAA G GAA G G C C G G G G G G AA $A G A A C C C C G G A A G G G G G G A A G G A A G G G G G G A A G A A A G G A A$ AAGGAAGGGGAAAACCGGGGCAAAAGGCCCAACCAAAAAA G GAA $A \operatorname{GAAAAAAAGGAAGGCCAACCAAGGAAGGAAAAGGGGAA}$ AACCCCGGCCGGAAAACCCCAAGGCCGGAAAAAAAAAAAAAA G G G GAACCGGGGGGAAGGAACCGGAAAACCAAGGAAGGCAAA G G G G G GAAAAGGAACCGGGGAACCAAAATTAAGGGGAAAAAA G G G GCCGGGGAAGGAAGGCCGGGGAAGGAAAAAAAAA
AAAAAGGAAGGCCAAAAGGCCGGGGAAGGAAAAGGGGGGGG $G G C C G G C C A A A A G G G G C C C C A A A A A A G G G G G G G G A A C A A A G A$ A A A A G G G G A A G G G G G G G GCC G G T T G G A A A A G G G G G G G G C C G G G G A A A A G G G G G G A A G G G GCCAAAACCGGCCGGGGG GAA G GAA
 A A G GCCGGAAGGAAAAGGTTGGAAGGCCGGCCGBAAGGGGGG AAAACCAAAAAAAAAAAAAAGGGGAAGGGGGGGGAAGGGGGG

A A A A G G G G A A G G G G G G A A A A G G G GAAAAAAAAA AAC AAGAAA
 G GAAAAACGGGAGAAGAGAAAAGGCAGAGAGAACAAAAAAGG
 GAAAATGGAGGAAAAATTAGGGGGGGAGGGGGAAAAGAAAAG T TCCAGGAGAGGAACCAGAACCGGGGGGAAAAGGAGGGCCAG C C G G G A A G A A G GAAA $A$ AAAAAGGCCGGAAGGAAAAAAGAACAG GACCCCGGAAAAAAAAAGGAAGGAGGAGGAGAAAGAAGATGG A A G G A C G A G G G GA G G G C C A G G A G A A A A A A A T TAA G GAA G GAA G GAA A G G G G G G GAAAAGGAAAAGGGGGGGGAGACAA GAAGAA C C G G A G A G A A C C G G G G G G G G A G G G G G A G C A G G A G G G G G A A T T
 $A \subset A A G G A A G G A A A A G G C C A G A A G G G G G A G G G G C C G A G G C C G G$ C C C C G G G G G GAAAAAGAAGACCGAGGAAGGAGGGGAAGACGG AAAACAGAGGAGCAAACCAACCTTCCGAAAGAGAAGCCAAGG AACGAGGGGGAAAAAACCGGGGAAAAAAACAAGAAGGAAAAC A G G G A A G G G G G GACGGCCCCAAAAACGGAAAGACAAAAGGGG A A G G G G G G A A A A A A TACCAAAATTAAGGGGAAAAAAGAACAA GGAAGAAAAGCCACAAGGCCCAAAGGAAGGAAGGAACACAAC G G A A G G G G A G G G A G G A G G G A A A A A A G G G G G G G G G G G G G G G G G G AAGGAAAAAAGGGGGGAAGGGGAAAAGGAAAAGGAACCGGTT A A A A A ACCGGGGGGAAGGAAGGCCAAAAAAAAAAAAAAAAAA A A A A A A A ATTAAAAGGAAAAAAGGGGAAGGGGAAAAAAGGGG G GAA A G G G A A A A G G G G G G A A A A A A C CAAGGAAAAAAAA A A GAA G G G G A A G GCCAAAAGGGGCCGGAAAAAACCGGGGGGGGCCCC AAAAGGGGGGCCAAGGAAGGAAAAAAAAGGCCGGAAGGEGAA AAAAGGCCAAGGAAAAAAAACCCCGGGGGGCCAAGGGGCCGG
 C C G G G GAACCGGGGAAAAGGAAAAGGAAAACCGGCCAAGGGG G G G G A A C C G G G G G G G GCCGGGGAAGGAAGGAAGAAAAACCGG A A T T C C G G A A G G G G A A A A A A G G C C G G G G G G G G A A A A C C G G A A AA G G A A A A G G G G G G G GAAAAAAAAAAAAACCCCAAG GAAAAAA G G G G G GAACCGGGGAAAAGGAAGGGGAAGGCCCCGGAAGGGG A A A A A A GAGGCAAGAAAACCGGGGAGAGAGAGGGAAAAAA G G G G G G A G C A A G G G A G A A G GAGGGAAGGGGAAAACCAAGAAGAA GAAAAACCGGAAGGAGGGACGGAGGAGAAGGAGGGGGGGGGA A A GA $\operatorname{A}$ GAGAAAGGGGGAAAAGGGAGACCAAGGGGGAAAAGAA A G G G GAGGGAGGGAAAGGAGGAGGAAGGACAAAAGAAAAGBA G G A A A C G G A GCCGGGAGAGAGAAAAAAAACAAAC GGCAAA G G G GAA A $\mathrm{A} G \mathrm{G}$ GAAGGGGGGCCGGACGACAGGAAGAAAAAGAAAGA
 G G A A A A A G A C G G A A G G G G G G A A C C G G C C G G G G A A A A A A A G A A AAAGAAAGAAAAAGCCGGGGGGCCAAGGAAGGCCAAGGAGGC A G G G A G G G A G G A A A G G A A G A A GAGCC GA GAGGGACCGGAGAA CAGGAGAGGGAAGGGCAGGGAACGGACCCCAAAACAGAGGGG $A C G G G A A G C A G G A G A C A G C C G G G G G G G A G A G A A G A G G A A A G G$ G GAA A GAA $A$ AAAGGGAGGGACACAGGGAAGGAACCAAAAAAAA CAGGCCGGATGAACAGAAGAACACAACCGGAAGGAACCAGAA G GAGGAGAGGGGCCGGGGGAGAGGGAAAAGGGACAGAAAGGG A G A A A A A G G G A A G G GAGGACA GAA $A \operatorname{AGAAAAAGGGGAAGGCCGG}$ AAAGCCAAGGAAAAGAAGAAAGGAAAGGGAGGAGGGGGAGAG
 GAGACCAGAAGGAAGGCCCCAAAAGAGGCCAAAAAAAACGCC AAAAGAAAAAGAGGACGAGGCCGGAAAAAAGGCCAAGGCCAC $A G A G A G A A G G A A G G G G G G A A G G C C C C G G G G G G G G G G G A G G A G$ G GAAGGAAAGCCGAAAAACAGAAAAGGGGGAGCAAACAAAAA

 AAAAAGGGGGGGGAAGGGAAGGGGGAAAAGGGAAAAAGAAAG

G GAAGGAACCAACCAGAAGAGAACGGAAAAAAGGGGGGACGG

 A GAAAAAAAACCAAGGAAGGAAAAGGGGAACCGAAGGGGGAA G GAA A GAC GACCACAGAGGGGGGGGGAAGGGGAGAGAAAGCC A GAGGGAGGAACAGGGGAAAAACAAAAAAAAAGAAGAAAAAA A A A A A ACAAACCGGCACAGGGGAAGGAAGGAAGAAGCAAAAC G G GAGGAAAAAACCAAAACAGAAAAAGGAAACBAAGAAGGGG G G G G A A A G A G A C G G A G A G A G G G G G A G G G G G G G G G C A G G A A G G G GAACCGGGGGGGAGGAAGAGGCCAGTTAAAAGAGGCAGAGG AAAGGGCCAACCGGCAAGAGCAAGAAAAAGGGGGGAAAAGCC GAAAACAGCCAAGGACAAGGAAGGGAAAAGAACCAGGGAAGG G G G G G GCA G GAAACCCGGGGCCAAGGGGGGGGCCGGAAGAAA G G GAAAGGACAAGGAGACGAAGGGGGAAACGGGGGAAAGAGA A AAAGAGGAAGGAACCAGAGGGGGCCCCAGGGAAAAGGGAAA GAGGAGGAAAGGAAAAGGAAAAAAAAGGAAGGGGCCAAAAAA A A G G G GCCAACCAGAACGAAGGGAGGGGGGAAGGGGGGAGAG A A G G G GCC G G A GAGAAAAAAAAGGGGGGAACC GAATGGGGCC AAAAGGAGGAAGACGGAAGGGAAACCAACCAGGAGGCCGGGG A A A A A A A ACCCAAAAAAAAGGGCCAGGAGGCCCCCACCGGGAA GAAAGGAACCAGAAAGGGGGAAAAGGAAGGAACCAGAGGGAA A A GAAA A G G G G GAAAAAAGACCCCAGGAGAGGACAGAAAACC G G A A T T A A A A A C G G G G G G A A G G A A G G A A G GCCGGG GAA TA C A
 G G G GA G G A A A GAG G C CA A A GC C C C G G GAGGAA G G G A A A G G A A $A T A A G G C C G G G G G A G G G G G G A G G G A A G G G G A A C C G G A A G G G G$ G GACAGGGAAGGAAGGAAGAGGAAGGAGAGAAGCGAAGAGAA G G G GCCGGGAAAAACCGGAAGGAGGAAAGGATGGGGGGAAAA A A C A G G G A A GAAGGGGAACCAAGGGGGGCCCCCCGGAAAAAA G G A A A ACCAAAACCAAAAGGGGGGAAGGCCGGGGGGAACCGG A A C C A C C C A G G A G A A A A C G G G A A A GAGGGAGGGGA GA G G A G G G GAAGGACAACCAGAAGGGGAGGAGAGAAGCAAAGACCAGAC G GAAA A A A G GAGGGCCAGGGAAAACAAGAAAGAGAGAAAGCC
 $A C G A A G A G T A A A G G A A A G C C G G A A G A A G A C A G A C A G G G A G A G$ A A G G G G A A A A C C G G G G G G G G A G A G A G G A G A G A G A T T A A C C G G AA $A G A A G G A A G G C C G G A A G G G G A G G A A A G A G G G A A A G G C A A A$ CAAAAGAGAGGGAGAAAGAGGGACAACCGAGGGGGGACAGAA A G A G A A G G A G A A A G A A A GCCGGGGGGGGCCGAGGAAAAAA GA G GACAGGAAGACGGAAAAAAAAAAGGGAAAGGAAGGGAAAAA $C \subset G G C A G A A G A A C A G G G G C A G G A G A A A A G G G G G A A A G G A G A A$ A G A A A A G G A G G G G G G G A A A A A G G G G GAAAA A GAA G G GA G GAA AAGGGGGGGAGGAGGGGAGGAAGAGAGGAGAGGGAGAGACAA A GAA A GAAACCCGAAGCCGGAGAAGGAAGGAAAAAAGETTAG A A G GAA A G G GCCA $\mathcal{A} G G G G C C A G G A A A G G C A A A G G A A G G A A G G$ A A A A A ACCCCGGGGGGAGAAAACCCAAAGGGAGGAAAAAGAG GAGGGGGAGAAGCCAGAAAAAAACACAAGGAAACAGCCAGCA A G GAA $A \operatorname{GA} \operatorname{A} A \mathrm{~A} G A A C A G A G G A G G G G G A C G A A G G A A G A A G G G G$ G GAGAGGACCGGAAAAGGAGAGACAGAACCAGAGAAAGGGAG AC G G G G G G G G G GAA A G GAGAGAGGAAAAAGAAGGGGGCACAAA A G G G G A T TAGAAAAAAGAAGAGCCAAAAAAAAAAGGAGAAGG $G A C A A A A G G G G G A G A A A A G G C A G G A A G A A A G G G G A A A$
GCCAAAGAGGAAGCCAAGAAAGGAAAGAAAACCCCAACCGA GCAAACAAGGGGAAAAAACCGGGGGGAAAAAAGAGAGGAGCA A G G A A G A A GACCGGGGAACCAAGGAACAGGAAAAGACCAAAG C C G A G GAA $A \operatorname{GCC} C A C C C A G G G A G G G A G A G A A A A A G G A A A A A A$ G G A A A A A A CAGAAGAGGAAGAAAAGGGGACCAAGAAGAAAAA AAAATACAGGGACCAGGAAAGGCCGGAAACAAAGGGAABAAA $G G A G G A G G A A G G G A G G G A G A A G G A A A A A G A C C G G A A A A G A G G$

GAAGACAAGAGAAGGAGAAAGGAAAAGAAGGGAGAAGAAAAA A A G G G G A A G G A A G G G G GAGAGGGAAAAAAAGGAGGAGGCACA G G G G G G G G A G GAG GAAAGGGAC GAGAAGGAAACAAACA G GA A AAGGAAGGGGGGGGAGCAAAAAAGGGCAGAAAGGAACAAAAG AA $A \operatorname{GGGA} \operatorname{G}$ GAAAAGGAGGGGGAAAAAAAAAACCGAGAACAGAC CAAAAAAAAAGGGGGGAAAAGGAAAAGGAGAGGGAA G GAAGAA G GAGAGAGAAGGAACCCCAGGGAAAAAGGGAAGGGGGGACAA AGGGGAAAAGAGAGCACCGGGGAGGGAGAAGGCCGGAAGAGA A A A A A A A G A G A A G CA $A \operatorname{GGGAAAGGAGAAAGGGGGAGGAGAGAA}$ G GAAAACCAACCCCAAGGGGGGAAAAGGGGAAAAGGGGAAGA A A G GAAAGGGAGGAGGAAAGGAAGGAGAACAACCGGGAAAAA C C G GAAAA $A \operatorname{A}$ GAAAAGGGGAAAAGGAAGGAAAACCAAAA GGGG G G A A G G G G G G G G G G A A C C A A G G G G G G G G G G G G G G A A A A G G G G G GAAAAAACCAAAAGGGGGGCCAAGGAAAAAAGGAAAAAACC $A C C C G G G G G G G G G G G G A A G G C A G G A G G G C C G G G G A G G G G A G A$ G GAGAGGGAGGGGAGAGAAGAGAACCGGAAGGAAAAAAGGGG G G GAA A A G G G G G G GAAAACCCCAAGGAGGGGACC GAACGGGG G G GACCCCAAAAAAGGAACCGGAAAAGGGGGGAAAAAGGGGG C CAA $A \operatorname{GGGGGAACCGGAAAACCAAGGCCAAAACCGGGGTGGG}$ G GAAAACCGGGGCCACGGAAAAAGCCAAGAAAAAACGGGGGG A GAAAAGAAAGGGGGGGGAAGAGAAAACGAAAGAAGGAGGGG A A GAA A A C GAA A G GAAAGAGAGGGGAACAGAACC GAA GAGAG

 GAGACAACAGCCCCGGAGAAGGGGGGCCGGCCAAAAGGGGAC AACCGAAAAGGAGACCGGGGACAAAAGAACAGGAAACCAGAA
 G G A A A A G G A A G G G G A A A TAGGGGGGAAAAAAGGAA GAA GA G G G GAA A A GAAGACAAAGACGAAGAACCAACCAGAGAGAAGAGA CAGGGGGAAAGGGGGGGGAAAAGGAGAAGGAAAAGAGGACAA GAAA $A$ A A G A GACAGAGAAAAGGATAGCCGGGACCGAAGAGAG A GAGGAGAGGGGGGAAAGAGGAGGGACAGGAAGAAGAGAC GA A GAAGGGGAAAGCACCAAAAAGCCAAGGGGACAGACAAGGCC GAGGACGGCCAAAAACGAGGCACAGGAGGAAGGGAAGAGGGG C C T T G GAA G GAAAAAAGGAAAAGGCCAAGGAAAACCAAAAGG GACCGGGGAAAAAAAAGGGAAAAAGAAGGAAGGGGGCAAGAAG AACAAAAGAAAAGGACGGGGAACCAAGGAAAGAAAAGGAAAA G G GAACGCGCAGAAACCCGGAGGGAAGGGGAGGGGGAAAAGA C C A G A G G G A A A A G G A CAGAACCGGGAGGAAGGGGGAAAAA G G G GAA $A \operatorname{G} \operatorname{A} A \mathrm{~A} G \mathrm{G}$ A A GAGACAGAAAAAGGAGAAAAAAAAAAGGGG $G G A A G G G G G A G A C C A A G G A A G G G G G A G G G G A G G G A C A A G G A C$ CAGGGAAGGGAACAAGAGAAGAAGGGGAGGAAAACCGAAABA AAAGCAAAAAGAGGCCGGGAGGAGGGGAAGAAAAAGTAAAGG A GAGAA $A \operatorname{A} G \mathrm{G}$ GAACCAAGGGGGGGGAAAAGGAGGGGGGGGGGG

 $G G A A A A A A G G A A A A G G G G G G A G C C A A G G A A G G A A C C G G A G A A$ C C A A G G A A C C G A G G G G G G G G C A A G G G G G G G G G G G A A A A A A A A A G G GAA A GCCGGAAAAGAGGGAGAAGGAGGGGGGAAACAAAA A GAGAAAAAAAAGGAAGGAGGAAAACGAGAAGAAGAGACACA G G G G G G G G A A C C C C G GC C A A A A A G GAGAAGCCGGACAGAGGG G G G G G GACAGAGAAGGAGAAGGAAAAAGAGGGAAAAAAAAAA
 AGGACAGACAAAAGAAGGGGAAGGAAAGGGCCAAGGGGAGGG G GAAAGCCAGGGAAGAGGGAAGCCGGGAGGGAGGGAGAAGAG GAAAGAAAAGAGAGGAGGGGGAAATACCCCGGGAAAGAAGAG A G GAGGGGGGGGAAGACCCCACAAAAAAGAAAGGACAACC GA
 AAAGCCCCGAAAATAGAAGGCAAAAAAAAGGGAAAAAAAAAA

AAAAGGGGCAGGGGCCCCGGAACCGGAACACAAGAAGGAAGG AAAAGGAGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGCC AAGGAAAAAGCCAGAAGAAGCCAAGGAGAGAAAAAAGGAGAA GAAGGGCCGGAAGGGGGGGGGGGGGAGGCCGAAGGGCCGGGG G GAAA AAAAGCAGGCCGGAAAAAAAAGGAAGGGGACCCCCCC GAAGCCCCCCAAAAAAGGAAAAAAAAAAGGGGAAAAGGGGGG C C G G A A A G A C A A A A G G A A G GAA A G GAGGAAAACCA GAA G GAC TAAGAAGGGAAAGGCCGACAGAGAAAAAGGAAAAAAGGGGGG CAAAAAAACCGGGGCCGGGAAAAAAAGGGGGGGGAGGGAAAA AAGGGAGGAGGACAGAAAAGCCGAGGAGGGAAAAAGAAAAAA A G G G GAGACAAGAGGGGGAAGAGGGGAGAAAAGAAACAAAAAA C C G G G G A A A A G G A A GAGAGGGGAAGGAAAAAAGGAAAAAGAG G G G G T TAA A GCAGGAAAAAAACCCGAAGGGGGGGAGCACACC G GAAGAACGAACCAAGGGAAGAAGTTACAAAGGAAGCCAAGG AAAAAACCGGGGAGCCGGAGGAAACCGGGGAGAGAGGGAGAA AAACAGACAGGAGGGGCCAAGGAAGGAAACGGAACAGAAAGG G GAAGCGGCAAGGGGAAGGCACGAGGGAAACAGAAGGAGGAA A A G G A GAA A GAGGAGGGAAAGGAAAGGGAACCAAAAGGAGAA G G A A A A GAAGGGGGTTGGCCGGGGGGAAAAAAGGGGGGACAA G GCA C G A A A A G A G GAGGACAAGCAAGGGAAAAAGAGGGAACC G G GA A A G GAA $A$ A $A \operatorname{G} \operatorname{A} A A A G G G G G G G G A A A A T A A G G G A A C A A A A$ G GAAAAAAAAGGTAACAAGAGAGGAAGGGGAAAACCGGGGAC A GAGGGATAAAAAAGGAGCCAAACAAAGCAAAAAGGACAAGA A T G A G G G G A A T T G A C C G G A C A A A A G G G G G G A G G G A GAAAA A A AAGGAGGGAGCAAAAAAAAAGGAAAACAAGAAGGGGAGAAAA G GCCGGGGCCGGGGAAAAGGGGAACCGGAAGGGGAAAGAACC G GAAAAAGGAGAAGGGGGAAAGACGGAGAGAGAGGAGGAAAA GAAA $A \operatorname{AGGGAACCGGGAGGGGCCGGAAACGGGGAAGAAAGGAA}$ G GAA $A \operatorname{G} G \mathrm{G} A A \mathrm{~A} G A A A A A A A G G G G G G G G G G G G G G A A A A G A A A G G$ AAAAGGCCAAAAAAAAGGGGAAGGCCAAAAAACCAAAAGGGG G G G G G G G G G G A A A A $\mathcal{A} G G G G G A A G G A A G G A A G G C C G G A A C A A A$ G G G GCCAAAACCGGGGAAGGGGGGCCAAAAAAGGGGGAAAAA G GAAAAGGGGGGGGAACCAAAACCAAGGGGAAGGAAAAAACC GAAAGAACAGAAGAAGGGCCGGGGAAAGGAGGGGAGAAAAGG $A G G G G A G C G G G A G G G G G G G G A A G G A A A G A C A A G A G G A C A A G G$ GAGGGAGACCGGAAAAAGAAAAAGAGAAGGAAGAAGAGAGGG G G G GCA $\operatorname{CA} A G \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A A C A C G A G G A A G A G A A A G A A A A G G G$ AACCGGAACCAAAAGGAAACCCGAGAAAGAGGAGAAAAAAGA A A G G A A A A A G GAGAGGGGGAGGGAGGAAGAAGAAAAACAAAA G GCCGAAAGGGGAAAAAAGAAGGGAAGAGAGGCCAAGACAAA
 G G GAACGGGGAGAGAAAGGAAGGAAGGGAAACAGCCGAAGAG
 A A G G A A G G G G A A A A A A A A G G G G G G G G G GAAC CAAA G GAAA A A C G G A A G GAAA A A A GAA $A$ A A A GAGACAAAGACCGGAAA GACGGGG $C \subset G G C C A A A G G G G G A G A G A A A G A G G A G G A A G G A C A G A A A A A G$ A GAA A GAGAAA A GAGAAAAACCAGCCAGCCAAAAGGCCGGAC
 GACAGAGGGGAACCAAAGTAAGGGGGAGGAGGAGAGGGAAGG A G G GAAAAAAGGGAGACCAAGGAAAAAAGGAAAGAAAAAAAG G $G G G G G A A G G G G G G A G G G A A A G A A A A G A G G A G G G G G G B A A A C$ A A G GAAAAGGAGGGGGACAAAAAAACGGACAGAGAGA
AA GAGGAAACAGAAAAAGAGGGAGGGGACGAAAAAGAGAAA $C A C C G A G G G G A A G G C C G A C A G G A A A A A A A A G G G A A A G G G G A A$ G GAA A GCCGGAAAGAAGGAGAGGGGGGGGACAGAAGAAAGAA $A A G G A G G G G G G G A G A A A G G A G G G G G G A A A A A G G G A A G A A G C A$ AAAAGGAGACCCACAAGGAAAGGGAAGGCCAGAAAGGAAAAG A A G A C C G G A G G A A C A A G G G G G GAGCAACGAGGGGGAAAAC G G G G G GA $A G A A G A A G G A A G G G G G G G G A G G G G G G A A G G G A G A G A A$
$C C G G G A G G A G C C A G G A A A G G G G C C G G A G G G A A G G T T G G G G A G$ A A G G GAGGGGAACCGGAAAAGGAGGAGAAGAAAAAGAAAA GA A G GACCAAGCAAAAGGGGAGGGACGGGGCCCCGGAAGAAAGG
 A A G G GACC $\mathcal{A} G G G A A G G G G A G A G G A A G A G A A G A G G G G G G A G A G$
 G GACAGGGGGGGGGCCAGACAGAGGAAAAAGGAAAAGGGGGA $A C G G A A C A A A G G A A G G A C A A C C G G G G A A A A G G G G A A A G A A G A$
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 A A G GAA A G G G GAGGAAGGGGAGGAGGGGAGGGGGAAAAAGGG $A G C A A G A G G G A G G G G A G A G A G G G G G G G G A C C C G G C C A A G G G G$ G GAA $A \operatorname{GCA} \mathrm{~A} G A A C C G G A A A A G G A A G G G G A C G G C A G A G G A G G G$ AAGGCCGGACGGAGAAGGGGGGAAGGAAAAAAAGGCGAATCC A G A A A G A A A A A A A A A A G G A A G G A A T TAAAA A G G G A GA G GAC C TTCCAGGAAGAGGAGGGGGGAAGACCAAAAAACAGGAGAAGG G GAACAGAGGCCGGAGGACCGGAAAGAGGGAAGAGGAAGGAG G GAAAGGAGGCACAGGAAAAGGAAAGAGAGAAGAAACCACAA $A C A C A A A G G G G G G G C A A G A A G C A G A A G A A G A A C A A G G A G G A G$
 AAAGGACCCCAGAAAGAAGGAGGGCAACAAGGGGACCACCAA ACAAAAGGAAGACACAGAAGGGGGAAAAAAGGGAAGAGACGG
 GAGGAGGGGGGGGGAAAAAAGGAAGGGGGGGACCAAAGAGAG AAAAGGCAAAAGGAGAGGAAAAGGGGGGCCGGGAGGAACCGG C CAAAAAAGAACCCAGGAAAACGAAAGGAAAAGAACGGAAGG G G G G G G G G G G G G G G A A A A G G G A G A G G C C A A A C C C A A G G G G G G G G G G A A A A A A GAGGGGAAAAAGAAAGAAGAGAAAGGGGGAGG G G G A G GCCAACCAAGGAAGGGGAAGGAAGAAAAAGGAAAAAA G G G A G G G A G G A A A A G G A A C CAAAACGGAAGGGCAA GAGAGAA
 A A GAGAGAAGACAAGGAAGGAAGGAGCCGGGGAAGGAAAGGG G GAA $A \operatorname{A} A A A G G G G A G G G G G G A A A A A G A G A A G G A A G G G A G G G G$ G G A A A A G A C A A G G G G G A A G GAA $A \operatorname{G} G A A G A A C A G A G A A A A G G G G$ G GCCAAAAAAAAGGAAAGAAGGGAGGCCGGAAGAAACBGGCA A G GAGGAAGGCCCACCACGAGAGGGGGGAAGAGGAGAAAGGG CACCGGCAAGGGGGAAAAAAGGAAAAGGAAGGCCGGAGAAGG A GAAGGAAAAGGGAGAGAGGAGAGGGGGGGAGATGAAGACAC
 $G G A G A G C G A A A G A G A A A G A G G G A G A G A G A A G G G G C C G G G C G G$ A GAGAGACGAGGACGGAACAGGAAAGGACAAAGGAAGAGGAA G GAA $A \operatorname{GA} \mathrm{~A} C \mathrm{C} G A A A A A G G G G G A A G G A G A A A G A C G G A C G C G G G G$
 G G G GAA $A \operatorname{GAA} \operatorname{A} A A G A A A G G A T T C A A A A A A G G G G G A G G G A G A G$ GAAGAAGGAAACGAGGAGGAGGAAAAGGAGCAAAATACAAGG G GAACCAAACAAAGGAAAAGGGCCGAGACCGGGGCCCCAGGG A A A GAAGGGGAAGGAGACGGGGGGGGAAAAAAAACCAGACAA
 G GAAGGAAGGGGGGTACCCCAAGGGGAAGGGGCCCCCCCCAA A GAACAGGAAGGACAAAAAAGGAGTTGGGGAAGGAGGACAAC $A G C C A G G A A C A G C A C G A G G G G G A G G G A A G G G A G G G G A G A G G B$ A A C C C CA GAACAA A A GAGGGAACCCAGGAAGGGAGGCCAA GA A GAGCCGGAAGAAACCGACCGACCAGGGAACCAAGGCCAAAG A GAGGGGGGGAAGAAGGAAAGGGGCAAGGGAAACAAGGCCGG

G GAAGGAAAACAGGGAGAGGGAGAGGTTACGGGGACCCAGAA $A G G G A A A A G G G G G G C C A A A A G G A A G A A A A G G G G A A G G G G G G G$ GAAAGGGGAGGGAGAAAAGAGAAAAAGGGGGGGGAAAAAACB $A C G G A A A G G G G G G G A A G G G G G G A G G G G A A G G A G A A A G A A G A A$ AAAAGGGGAACAAAGGAGGGCCACGAGGGGAAAAAAGAAAAA G GAGGGGAAACAGGAAAAAAAAGGCAGAAAGGGAGGABAAAA AAACGAGGAGCAGGAGCCGAAAAGGAAGCAAAAACCAAGGGG AAACAGGAGGGGGGGGAGGGGGGGAAAAGGCCAAGGGGAGAA
 AAGGAGGGACACGGCAAAAAAGAAAAGAGGAAGGGAAGAAGA GAAGAGAACAGACAAGAAGAAAACGAGAGGACGAAAGAGAGG C C C A C C G G G GAGGGCGAAGGAACCAGAGGGAAACAAGACC GA G G A A A A A A A A G G G A A CAAAAGGGAAAC GAAAAGGAA GACAAA G GACGGGGGGAGAAGAAGCAAGGGAGGGGAGGAAAAAAGGAC A A GAA A G A A A A A A A G GAAC C $\mathcal{A} G G G G G G G A G G A A G G C A A A G G C C$ $C \subset A G G A A A G G G A A A G G G A C A A A A A C C G G G G C C G G G A G G G G G A$
 A G G G G A G A A C G G G GCC G A G GAC GACCAAGGGGGGGGGAAAAA $G G A G A A G A G A A G G A C A G A A C G G G G A A A G G G A A A A A G G G G G G G$ G G A G A A C C G G A G A G A A A A G G A G A G G G G A A G G G G G A A G A A A A G GAGAGAAGGGGAGAAAAAGGAAAAGGGGGGGGAAAAGGAGAA G G A A A GAGGGAGAGGGGGGGAAGAGATAAGACGGAGAAAAAA A GAA A A G G G G G GAA A G G GCCGGGGAAGAACGGAGAAGAGGCC A A A A G G A A G G A A G G A A A A G G G G A A G G A A A A G A G A A GAAAA A G G GAA $A \operatorname{GAA} C \subset G G A G C A G A A G G A A A G G A G G G A A A G A A G G G G G G$ ACAAAAGGAGAAACGAGACCGGAAAGCAAGGAGAGGGGCAAA GAAGAGGAGAGGAACACCAGGAGGGAGGGGGGAGGGCAAAAG C C G A G G G G G G G GAA A G A A G G G A A A G G G G G G A A G A A A G G G G A C A GACAAAAAGGAAGAAGGGACACCAACGGAAGGGGCGACAAG AAAGAGAGTTAGAACCAACCACGGAGAAAAAGAGGAGGAGAG A G G A G A A C A G A G G A A G G G G A C C G A A GAA G GAA G G G G G G C A A G A GAAAGAGGGGGGAGATTAAAAGGAAAAAATAGGGGGGGGAA
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 G G G GAAAAAAGAGGCCGGGGACGAGAAAGAAGAGAAAAAAGA G GAGAGGGAAAGAGAGAGGAAAAACCGGGGAAAAGACCAGAA
 G G G A C A G G A G G GAAAAAAGGGGGAGGGAAAGCCAGGAGAGGAA G G G G G G A G A A A A T T A A G G A G G G G G T T G G C C A A A A A A A A A A A A GAAGGGGAAAGAAAGAGACCAAAAGGAAAAGGGGGGAAGGGA G GCAGAGGGAAGGGGGACAAAGGAGAAGGGAGGGAGAGAGAA G GAG G A A A A G A A G A C C G G G G G A G G G G A G C A G A A A G G G G A A G G G GAAAAGGAAGAGAGAAGACAGGGGAAGGAAACAAAGGCCAA G GAACCAAAAGGACGGGGGGCCCCAAAAGGCCAAGGA
$A C C A A G G G G A A G G A A A A G G C C G G G G A A G G C C A A G G G G G G C C$ G G G G G GCC G GAAGGGGAAGGAAGGGGGGGGGGAAGGCAAAAA A A A A G G G G A A A G G G G GAGGGAGAGGGAGAAAAAA G $A \operatorname{A} A A A G G A A$ GAAAACGAAAAGGGAGAAGGAAGGAAGGAAGGCCCAGACAGB A GAGAGACGAAGAAGAAAAACAAAGGGGAAAGCACACAAGAG A A G G A A A A GAGGCAAAGGGACAAGGAGGAAACAAGAGAAAAA GGAAGGAGACGAGGAAAGAGGGAAAAACAGAGCGAAAAAGAG

G GAGAAGGCAGGAGGACCGAAAGGAAGAGAAAAGAGGAGGGG G GAA A A G GAA $A \operatorname{AGGGAAAGAAGGGAGGAAAGGGAGGAAACATA}$ AACCGAACAAGGAAGGCCAAAAGGAAAAGGGGGGCAGGAGA G A A G G G G G GCC G A A A GAGGAAAACCAAGGAGGGAGGGCCAGAA AA G GAAGGGGAAAGAAAAGGGGCCAAGAAACCAGGGAAAGAG
 G GAAAGAACCAGGGAAGGAGGAGAAGACAAAACCACGAGABA A G G GAGAGAAGGGGAAAAAGAAAAAAGGGAGGAACAAAACAA G G A A A G G A A GAGGGACCCAAAAGAGGGGAAGAAAACAACAGBG G GAAACGGGAAAGGGGAGGACAGAGGAAGGGGAGAGGAAAGA A A C C G GAA A $A \operatorname{A} A A A G G G G G G A G G G A G G G G G A A G G G G A G C A G G$ A A G A G A A G A G G A G G C C G G G G G G G G A A G G A G A A A A A $\mathcal{A} G G G G G G$ GA $A \operatorname{GGG} \operatorname{GA} A G G G G A A G G A A A A G A A G G G G A G G G A A A A G G A A G G A$ CAAAGGGGGAGACCACGGGAAACACCAAAAAGAGAAAAAAGA GAGGGAAGAAGGGGAAAAGAAAGGAGTTATAGCGGGGGCCBA G GAAGGCCAAAAAACCGGACGGGAGGGACCGAAGAAAGAGCA GGAAAACCAAAACCGGAAGAAGGACCAGCCAAAAGGAAAAAG ACGGGAGGCAGGGAACGACCGAAGAAGAAGAGGGAAAAGGTT $G G A A C C A A A G A A A A A A A G A A A A A A G G A A A G G A A A C C A A G G A A$ G GAA A G G G G G GAGGGACAGAACAAAAAAGAAGAGGGAGAAAA AAGAGAAAGACAGAAGCCAAGAAGGAGAGAACGGAAGGGGGG C CAGGGAAAAAAATGGAGCCAAAGGGCAAAAACCGGCAGGAA A GCA $\operatorname{CA} A A A G A G A A G C A A A C A G A G A A G G G G G A G A C A G A G A T T T$ A A A A A A G GCC G GCAAAAGGGAATTGAACAGGAGGAGAGAGCA GA $\operatorname{G} A \mathrm{~A} G \mathrm{~T} A \mathrm{~A} G A A A C A A G G A A G A G G A C G G G G G A G A G G G G G G G G$ G G GAGGGAAA $A \operatorname{A} A \operatorname{A} G C G T A G G A A A A A G G A G G A G A A G G G A G G G G$ GAAAGACCAGGAGAGGGGCCGGGGGAGGAGAAAAGAAAAGAA G G G GCCCCGGAAGGAAAGAACCAGAAGAAAACGCBAAAAAGG A A GAAACAAAAAAAAAGAGAGAAAGAAGGGGGGGAAAAAGAG AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGGAAGAAAA A A G G A A G G A A A G G G A A G G A A C C G G A A A A C C GAGGGGGCAAAA G G G GAAAAGGAAGGGGAAGGGAGGAGAAAGGGGCGAGAAAGA A A GAGGGAAGAACCGGGGGGGGAAAAGAAGGAGGAAAAGGAA G GAGAAGGAGGAAAGGAGGAAAGGGGGGAACCGAACAAAGCC A A C C G G G G A C G G G G A A G A G G G G G G C C A A A A G G G A G A G G A G A A A C A C G A C A A G G A G G A C G G G G A A G G G G G G G G G G C C A A G G G A A AAGGCAGAAGGAGAGGAGACCCAAAAAGGGAGGGAAACAAAA AA $\operatorname{A} G A A A A G G G G A A G G A A G A G A G G C C G G A A A A A A A A G G G A A A$ CAGAAGGGAGAAAAGGACGGGGAAAGGGGGAAGGGGCCAGAA A A G G A A A A G GA G GAA $A$ A A GACCACAGGCCAAGGAAAAAAGGGG GAAGGGAAGGAAGAGGCAAAAACCAAAACCTAGGGGAAAAGA
 C C G GAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGAAACBG A A G G G A G G A A G G G G G G G G A GCC G G G G G GACAAAAAA GAGGGCG G A A A A A A G A A A A ATAAAGGGAAGGCAAATTAAAAAAAACCAA A A A A A A G A A ACCGACCAAAAAGGGGGAAAGAAAAGGAACCGG A G A G A A A T G G A A G A G G AC G CACAAAGGAAGTACAAAG GAATT AAACAACCAAAAAAGAAGAGAAGGGGAAAAGGAAAACCAGGG CAGAAGGGAGAAAGAGACAGGGAAGGGGAAGAAAAACCAGCA A A G G G G A A G G G GAGACGGAACCAGGAGAGACCGAAGGGAAAA $G G A A A A G G G G C C A A T T A A A A G G G G A A A A A A A A C C A A A A A A A A$ G GAACCAA GACACACCACCCGGCCGGGAAGGATTAAAAGGGG A A G A G G A G G A A A G G A A A A G G C C A C G G G G A G A A G G A C A A A A G G G G G GACGGCAGGGAAAAAGCAGGGGGACACGAGGGACCGGGG
 A A A A CAAACCAACCGGGGAAGGAAGGTTAAAACAAAGGAGAC
 G G GAGAAGACGGAAAAGGAAGGGAAAGGAAGAAGA GAAAGGG $C \subset A A G A G G A A G A A G G G A A G G A A G A G G C C C A G G A A A G A A G G G G$

GAAAAAGGGGAAGGGACCAAGGAAAAGGAAGGAAAGGAAAAA
 GAGGGGAAGGACGGGGCACAAAACGGGGAAAAAAAGAAAGCC AAGGAAGGGACCAAAGTTAAAGGGGAAAGGGAGGCCGGGGAG AAAAAAGAGGAACCGGGGCCGGGGGGAAGGAAAAAAGAAAAA G G A A A A A A G G A A A A A A A A A A A A G G A A G G G GAAAAAA A GAAAA G GAACCGGGGCCGGGGCCAAAAGGGGCCAAGGCCAAGGAGAA CCAAGGAAAAGGAAGGAAGGGGAAGGTTCCAAGGAAAACCAA A A A A A A G G G G A A A A A A C CAAGGGGAAAAGGCCGGGGGAAAAA G G G G G GCCAACCGGGGGGGGGGGGGGAAAACCCCAAGGAAGA A A G G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G G
 G GCCGGGAGAACACAGCAACCAGGGAGGAGCGGAGAGAAGAA GAAGAGAGCCGGAACAGGAAGGAAACAGGCAGGAGGGGAGAA G GAAAAAAGGGAGAGAGGGGAAAAAGCAAGAGGGCAAAAACA GAGAGAAAGGAAAAAAAAAAAAGACAGAGGAGAAGGGGGGGG A G GAAGCAAAAGAGCGCAGGCCAAAAGGAAAAGGAAAAAAAA G G A A G G G G A A C C G G A A G GCCGGGGGGCCGGGGGGAAGAAAGA AAGGAAGGAAAAGGAAAACCAAGGAACCAAGGGGCCCCABAA C CAA $A \operatorname{GCCA} A \mathrm{C} G \mathrm{C} C \mathrm{C} A A C \subset A A G G G G A A G G A A A A G G A A G G G G G G$ $C \subset A A A A G G G G A A A A A A G G A A G G G G G G A A A A G G C C G G A A A A A A$ AA $A \operatorname{GAAAACCGGGGAAGGGGAAAAGGGGAAAAGGAACCAGAA}$ C C C C C C T T C C C C C C G G G G G G A A G G A A G G A A G G G G G G A A A A G G G GCC G G A A A A G G G G G G C C A A G G G G G G A A G GCCAA G GAAAAC C A A G G A A G G G GCCAAAAAAAAGGAAAAAAGGAAGGTTAA GGGG G GAA A G G G G GAAAAGGAAAAGGAAAAAAGGGGCCAAAAGAAA $C \subset G G G G A A A A G G G G A A G G G G G G G G G G A A A A A A G G A A A A G G A A$
 G G G G A A G G A A A A G G A A G G G G A A A A C CAAGGGGCCAAAAAA G G G GAAGGAAGGCCGGAAGGAAAAAACCGGGGAAAAGAAACCAA A A G GCCAAAAGGAGGGGGAGAGAGCAAGTTGGAAAAGGAABA AGGAGAAGAGAACCGGAAGGGAAAGAGGAAAGCCAGAGGAAG G GACAGAGAAAAGGCCAAGGGGAGGAAGTAAAGAAGAAAAAA AAAACCAGGGAAAAAAGGGAAAAGGAAGGGGAAGAAAA G GAAA A CAA $A \operatorname{GGG} \operatorname{GAACCGGGACAAGAAGGAAGACGAAAGAGGGGGGA}$
 A G G G G G G G G G G G G G A A G G G G A G G G A A A A A A A A G GAACAAA G $\mathcal{A}$ G G G GCCGGGGGGGCAGGAGAGAAGGAGGAAAGACAAAGAAGA ATAAAACCACGGGGGGGGAAGGCCAAAAAAAACCAAGGTXAA A A A A A A G G GAA A A GAGAAGAGGAACCGGAGAAAAAAA GAGA G G G G G A T C A C G G G G G G G A A C A G G G G C C G G G G A G A A G G G G G A G G $G G C C A A A A G A A G C G A G G G A A G G G G G G A G G G G A A A A A A A A A G G$ A A A G G GAGAGAAGGGGGGGGAGGAGGAGATACAGGAAAGGGA
 A A A A A A A G ACAAAAGGAACCCCGAAATTCCGACCGGGGAAAA
 AACCGGAAGGGGAAGACCAAAAAGAAAAGAAAAGAGGGAGAA AAAACCAGACGAATGAAAGACAGCAAGAAGCGAGGAGGAAAA CAAACCGAACAAGGCCGAAAGAACGGAAAACCAAGAGGGGAG A A C A A A C C A A A A A A A A A A G GAGAAAAAAA GAAAGGAAA G GAA GAGGAGCCCCAAAAAAGGGGGGAAGGGGAAAGAAGGGAAGAG G GCCGGGAAAAAGGGGGGAGAAGGGGGGAACCAAAAG
 AAGAAAAGAAGAAGGGAAAAGGCCGGGGGAGAGACCGGAAGA AAAAAAAAGGGGGGAAAAACAAGGAAAGAATTGAAAGAAACC ACAGAAGAAGGAGAAGAAAGCAGGGGAAGGAAAAAAAAGGAG C CAA $A \operatorname{GGG} G C C G G G A A A A A A A G G A G A A G G C C A A A A G G A C A G G C$ G G A A A A G G CAAAAAACCAAGAAAAGAGAGGGACCGAGCGGCC CAACCCACGGCAAGACGAGGAGGGGGGAAAACCCAAAAGGGG

G GCCAAAAAAGGGGGAGGGGGGAACGAGATAGAGAGCACAGA
 G G G A G A G A A A A A A GA GAGAATTAGAAAAGGAAGGAGGGACAG G GAAAAGCAGGGGGAGGGGGAAACACGAGGAAGGAAGGCCGG $C C G G G G C C A G A A A A A G G G A A A A G G A A G A A C A A A G A A G G G G G G$ ACAGAGGGGGAGGGGGAGAAGGGAGGAACCGGGGCAAAAGAG C C G G A A A A G GCACAGGAAGAGAGGGCGGGGAAGGGAGAAAGA A A G A G G G G A G A A G G A A A G C C C C G G C C A A G GAG G G C C G G G G C C G G C C G A A C G A G A G A G G C G A A A G A A A G A A G G G A A G G G G A A A G G GGGACCGGAGACGGAAGGGGAAGGCCGGGGAAAACCAAAGAC ACAAAAAAGGAAAAGGCCGGGGAGAAAACCGGGAAGGGAAGA G GACGGAAAAAAGGGAGGAGACGGGAGAAGAACCGGAAAA GA GAGGGGAAGAGGGGGGAAAAGGAAAGGAGGAACCGGGAAAAA A A A A A G G G A G G A G G A A C C G G G G C C G G G G A A G G G G G A G A G G G G A GAAAAGGAGGGGGGGAAAAAACCGACCGGGGGGGGAGAGAG G G G G G A A A G G G GAAAGAAGAGAAAAGGGCAACAA GAGAGGGG G GAACCAAAAGGGGCCGGGGAAGGAAGGGGAAAAAGGGAGAA
 G G G G G GAAGGAAGGAAGGGGCCAACCAAAAAAGGGGAAGGAA G G G G A A G G A A A A A A G G A A A A G G T T A A G G A A A A A A A A A A G G C C $C C G G A A A A A A G G G G G G G G A A G G G G G G G G A A G G A A G G G G A G A A$ G GAAAAAAGGGGAAGGAAAAAAGGCCAAAAGGGGGGAAAACC A A A A A A G GCCGGAAAAGGAAAAGGAAAAAAAAGGGGGGAATT G G G G G G A A G G A A T T A A C C G G G G A A C CAAAAGGAA G GAAAAAA A A G G G G G G G G G G G G G G A A C C C C G G G G C C A A C C A A A A A A G G G G C C G GCCAACCAACCGGAACCGGCCTTGAAGCCAAGGACAGAG A GAAAAAGGGAGGGAAGGGGCCAGCAGGGGGAGAAAGAAAAA A A A A A G G ACCGGAAGGAAAGAGGGAGAAAACCGGGGGAGGAA G G GAA A G G G GAAGGGAGAGAGAGACAACGAAAGGAGGAAGAA GAAGAAAAAAGAGAGGGGAAAAGGGGGGGGAAGBAAAAGGGG G G T T G G A G G G G G A G G A G G A A G G A A A G A G G A G G A A A A G G A A A A AAGGAAAAGGCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAGG A A A A A A A A G G G GAA A GAAAAAAAAAGGGGGGGGAAAAAAAAAA G GAACCAAGGGGGGGGAAGGGGAAGGGGAAAAGGAAAAAAAA A A T T G GAACCAACCGGGGAAGGGGAAGGAAGGGGAAAAAAAA
 G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAGA G GAA A G G G A A A A G G G G G GAAAAGGGGCCGGGGAAAAAA G GAA A A G G A A A ACCAAAAGGAAGGAAGGAAGGAAAAGGAACCACAA
 G GAA $\operatorname{G} G A A G G C C A A A A C C G G A A G G A G G A G G G A G G G G G G A A G G$
 G GAAGGAAAAAAAATACAGGCAGAGAGAGACATTAGGGAAAA G G G G A A G GCCAAGAAACAGGCCGGACAGAGCCAACCCCAAAA A A G A G G A A A G G G G A A G G G G A A A G G A GAATTAGACAAAAAAA A C C G A A A A A G G G G T T G G C C G G A A A A A A A A A A G G G A T TA CAA $A$ A A A G G A A G G GAGGAAGGAAGGCCCCAAACAGGGAGCAAAGGAA A A A A G GAAAGGGGAAAAACCGGCCAGAAAAGAAAGGCAAAAA T TAAAGAGAAAACCAACAGAGGCCGAAGGGGGGGGAGCACAB A A G A A $\operatorname{A} G A G A G G A C G G G G G G G G G G G G G G G G C C G G A A G A G A A A$
 GACCAGCAAGGGGGGGGGGGACAAAGTAAAGGCCAAGGAAAG A A G A A A C C G G A A A A A A C A G G G G G G G G G G A G G G A G G G C C C C G A GGGAGGCCCCGAAGGGAAAAAAAAAAAGAAAGAAGGGGGGAG GAAAAAGGAAAAAGAAAAAGTTGGGGGAAAAGAGAAGGAGAA GAAGAAGGAGACAGCCGGAGAAGGAAGGAAGAGAAAAGGGGA G G G GAACCGGACAAAACCCCCCGGCCCCGGCCAAGGAAGGGA GACCAGGAGGAAAAAGAGGGAAAGAGAGAAAGAGAACCAGGA G G G GAAAAGGACAAGAAAGGAAGAAGCAAGAGGGGGAGAAAA

A G G G A A G A A G G GAGC CAA $A \operatorname{A} A A G G G G A A G G G G A A A A G A A G G G G$
 A G A A A GACCGAGGGGGGGAGCCGGAGGGCAAAAACCTTAAGG G GAACCAAGGAAAAGGGGGGAAAGGAAAGGCAGGAGAGAAAG G G GAGAGGAAAAGGAGATGAAGAAGAAGCAAGGGAGAGCCGG A A G G G A A A $\mathcal{A} G A G G G G A A G G G G A G G G G A G A A C C G G A G A A G A B A$
 G G G G GAGGAAAAGGAAGAAGAGGGGGGACGACAGGAAGAGAA G G A A G G A G A A G G G A A G A GAAGAGGGGGGAAATACAAAAGGAA AAAGAACGGGAAGGAAAAGGGGAAAAAAGGGAGGGAAGAGGA A GACGAGGAAGAAAGAGAGGAGCCAAAAGAGGAAAAAAAACC
 A G A A A G G G G G A G A G G G A A A G A A A A GAA A A G GAG GAGCA G G G A A GAA $A \operatorname{GA} A A G G A A G C A A A G G A A G G A A G G C C A G C C G A G G G G A A$ A A G GAA A G G GAAA A A A G G GAAAAGGAGCAGCAAGAGGGAAGA G GAAAAAAGGACAAAAGGAAGGGAGAGGGAGACACCATAAGA A A A A A ACCGGAAAGGAAAGGACACAGAGGGCAAGAAGCAGAC A A A A G G A A A A G G G G A G G G G G G G A A A A CAAA A A GAAA A GA GA A AAAGGAGAAAAGGAGGGGGGGGGAAGGACCCCGCACCCAAGA C CAA A ACC GAGAAGGGCCGGAGCCAAAGAAAGGGGGGGAAAA T T G G G G G G G G A A G G A G A G A G G G A C A A A A A A G G G A A C A G A G G A C C G GAGAAAACCGGAGGAACGGAAGAAGAACCAAAAAAAAAA A A A A A A C C A A A A A GAA $A \operatorname{AGGGGGGGGACCGGGAGGAAAGGGAC}$ A A G A G G A T A A G G G G G G A A A A A G A A A A A G GAA A GA G C G A GA G A GAAGCAAGAGAAAAGGAGCCAAGACCGAGGCCAAGGGGGAAA G G G G G GAGAGGAAAAGGAAAAGGAGGAAGACCAGGGGAAGAA
 AACCGGGGCAGGAGAAAAAAGGGGAGAGGGAGAAGGCCGGGG G G G G G A A A G G G A A G G G CAC C G G G G G GAGGGGGGGACA G C C G G A GAGAGAAAAAAAGGGGGGGGACCAGAAGGAAAAGGCAAAGAG A A C C A G A G A GAA GAAACAGACAGAGAAAAAAGGGCAGACABA G GAAAACAAAAGAACCGGGGAAGGGGAGGCGACCGGACGGAG A GAAA A A G G GAAAAGGAGGGAAAACCCCGGAAAAAAAGGGGG G G G G A A G A G G G GAA $A \operatorname{GGG} G A A A A G G C C A G G G A A A G G G A G A A A G$ G G G GAGGGAGAGAAAAGAAAGGCAAGAGCCGGGGAACCAAAA A A A G G A G G A A G G A A A GACAGCCAAAGGAGGCCAAACAAAAAA GACCGGCCCCGGGAGAGGGGGGAAAAGAAGGAGAAGAAAAAA G G GAACCCGGGGGAAAAAAAAAGGGGAAAAGGCAAAGGGGGA G G G A G G A G G A A A C A G G A G G A G A A A A A G G T T A G A A G G G G G G G G
 G G G GAGAAGGAAGAACAACCGGCCAGCCAAGAAAGGGGCCGG
 G GAGGAAGGGCCGGGGCCGGCCGAGGAGGGGGGGGAAGAGGG AAAGGAAACCGGGGAGGAAAAAAACCGGGGGGGGAAAAGGGG AA GAAAAAAAAAGGAAAAAAGGAAAAAGAAGAGAAAAAGGGG

 GAACAACCGGGAGAAGAGGGGGAGAAAGCAGACCAACCAACC G GCCGGGGGGGACCAGAAAGGAAGAAGGAACCAACCCCAGAG A A G A A C A G A G G A A G A A A G G G GAGGGGAGAAGAGAGGCAAAAA A A C C CAGATAAGGAGGGGCACCGAAAGGAGGAAAAGAACC GG G G A C A GCC G A A A G G A G G G G G G G G GCCCCCCAAGGGGA
 AAGGGGAGGAACAAGGGGAAAGGGAGGGCCAGAGCCAGAGAA

 AAAAAAGAAAGAGGGAGGAACAAAAAGGAGAAGAACGGAAAG G G A A A A A G A A C CAACCAGGGAAGGGGAAAAGGAAAAACAAAA G GAGAGGAGGAGGGGGGGAGAAGGGGGGGAAGGAGGAGAAGA

A GAGGAAGCAGAAACAAAGGGGAAAGGGAAAAGGAAAAACAG A A G GCCGGGGGAAGAAGAAGAGGGGGGGGGAAAA GAAACACC A G G G G G A A GACCGAAAGGACAAAAGGAAGAAGCAAGCAAA GA A A A A G G G A G G A G G G G G G A G G G A G GACAGAGGAAA G G CACA GAA A G G G G G G G G G GAGAAGAAACAGCCGGAAAAAAAAGGGGAACAC G G G A A G A G T T G G C C G G A G A G A G G G A A A G A A C C A A G A G A A G G G A GAG $A \operatorname{GAA} A G G G G A A G G G C G G C A A C G G A A A A A A G G C C A G C A A A$ AAAAAAGAGGGGAAGGAAAAGAAGGAAGAAGGAACAGGGGGG GAAGGAGGGAAAAGAGAGCAGGGGACGGAAAAAAGAGGAABA GGCCAAGGGGGAAAGAAAGGAAAAGGGAAAGGGGGGGAAAAA G GCCAGGGAAAACCGGGGAAAAGGGGAGCCAAAACAAAAGAA A A C A G G A G G A G A G A G A G G G G G G A A G G A G A C A C G G G G G A A A G A CA $A$ A $A$ A $A G A G G A G G G G G G G G A A A A A A G A A A A A C C G G A A A G A G$ A A G G G GCA G G CA A A CA $A \operatorname{A} G A C A A G G A A G G G G A A G G A A G G C C G A$ C C C C C C C C A G G A A A A A A A G GAAAAGAGGGGGGATAGCC GACC AACCAAAAAGGGGGAAAGAGGGAGGAGGGAAAGGGAGAAAGA G G A A A A A A A A A A A A G G G G G G G G A A G G G A G G A G A G G G G G T T A A C CAAAAAAAGCCGAAGAAGGGGAGAAGGAGAGCCAGACAAAG
 GAGGAAGAGGAACCGGAAGGACAGACAAAAAAGAAAGGAACA GGCCAAAGAGAAGAGGCCGAGGCCGGAGGAAGAAGGCCGGAG ACAAAAAAAAATAGAAGGGGGACCAAGGGGCCCCAACCAGGG A GCGAGGGGAGGAAGGGGAAGCAAGAAAAATTACAGAAAGCA
 C C A A A A GAACGGAGAGAAAGCAGAAAGAAAACAGAAGGBGAA
 GAGAGAGGGGAAGGGGAACAAAAGAAAAGACCAAAGAGAAGG A GAA A A G G A A G G G G A A A A A G G G A A G G G G A G A GAGGGAA G G A A G G A A A A A GCCAAAAGGGGTTGGCCAAGGGAAACCCCAGAAAA AGCCAGGACAAAAGACCCAGGGCACCGGCCACGGGGAAGGGA
 G GAGAAAGAAGGAGGAGGAAGAAGGGGGGAGGAAGBAAA GAA G GA GAAAAGGAGAGAGAGAAAAAAAAAGAAGGAAGAGGGGGA C CAGCCGGGAAACACCACGGGGGGAACCAGGGGGAACAAGAG A G G G A G G G G G A A A A A A A A A G G G G G G A G G A A G A G G A G G A A G G A A A A A GCCGGAAGGGGAAGGAAAGGGGGAACCGGAAA GAGAAGG AAAACCCGGGAATTGGAGGAAGGAGGGGGGAAGAAGAAGAAA A GAGACAGAAAGGGAAGGGGAAAGAAGGGGGGAGAGAA G GAAA A GAAAGAGGAGAAGAAAGGGAGCCAAGGGGAAGAAGGGGCGG G GCACCAAAAAAGGAAGGAAAAAAGAGGAAAAGAACAA GAA G GAAGGAAGAGAAGGACAGACGGCCAAAAGGAGAGAAGGAGGG A A GACAGAGGGGAGGGAGAGGAGGAGAGGGGGAGAAAAAGGG G G G G A G G A GACCAA $\mathcal{A} G A A A G G G A A A A G G A A G G A A C C G G G G G G$ G G G G A A G GCA G G G GCC G G A A ACGGGAGGCCAAGGGGAAGAAA GAAGGACCAGGACCGGGGAAAAGGAAGGGGAAGGGGGGAAAA GAGGCCGGAGAAACAAAAGGAAAAGGAAAGCAAAGGAGAGAA GAAAAAGGGGGGAAGGAAGGAACCGACAGGACAAAGGGAAAA GGCCAAACAAGGAACAGAAAAAAAAAAAAGAACCGGGGGGGA A A G G G GAAAGGGCCAGGGGAGGAGGACCCAGGGACCGAAAAG A A A TAGCCGGGGGGAAAAAAGGCCGGGGAAAGCCCAAAAAAA A GAGAGAAGAAAAGAACCGGGGCCAAGGGAAGAAAAAACACC
 GACAAACCAAGAGAAAAAAACAAAAAGGGGAAGGGGGGCAAA A GAGGGACAGAGAAGGAACCAGGGGGAGACGAGAAAGGGGAG A G G A A A G A G G G G G G CAAA $A \operatorname{A} A A A G G C C A A C C G G G G G G G G G G G G$ G GCCGGAAAAAAGGGGAAGGAAGGGGGGAATTAAGGAAAAAA A A G G A A G G A A A A A A A A G GAA $A \operatorname{AGGGAACCAAAAAAGGGGGGAA}$ $G G A A A A C C A A G G G G A A G G G G G G G A A A G G G G G G A A A G G G A A A B$ G G GAAAAAAGACACAAGGGACCGAGAGAGGAGAGGAGAAAAA

G GAGGGAAAAAAGGGGGGAAAGCCAACCAGGAGGCCGGAAAA G G G GCCCCAGAGAGAAACGGAAGAAGGGAAGGCCAAAAAAGB $G G C C A G G A A G G A A C A G A G A G A C G A G G G G A A G G G G A A G G A A A A$ G G G GAA $A \operatorname{GAA} G \mathrm{~A}$ G GAGAAAAACAAAGAGAAGAAGAAGAGAGA G GAGGGGAACAAGGAGGGAAGGAGGAAAGAAAGGGGAAAAAA A A A A A A A A A A C CAACCAAGGGGGGGGCCGGAGAGGGAAGGGG AACCGGAAAAAAGGGGAGACGGAGAAAAGGGGAGGAGAAAAA AA $A G A A G A G A G G A A G A G G G G G G C C G G A A A A G G G G G A A A A A G G$ G G G G G G A A G G A G G A G A A A A G G A G G A A G G G G A A A A A GAA G G A G AAAAGGAAAAAGGGACGAGGGAGGAAGGGGAAGAAAGAAAGA G GAGGAGAGAAAAAAACAAGGGGGACGGGGGGGGGGAAAAAA GACAAGGGCAGGCAGGAAAAAAGAGGGAAAGGGGGAAAAAAG $A G C C G G G G A A A A A G G G A G G G G A G G A A A A G G G G G G G G A A A A G G$ A A A A A A A G A A G A A A A GAACAAGGGCCGGAAGGAAAAAAGGAG G GAA A GAA $A \operatorname{A} A A A A G G A A G A A G G G G A A G G G A A A A A G A G G A A A G$ GACAGGAAGGGGAAGGAAAAGGCCGGAAGGAAAAAAGGACAA GAAGGGCCAAGAGGAAAAGACCAGGAGGCAGGGGAGAAAACC A A G GAACAGGAAGGAAAGAAGGAAGGAAAAAAGGGAAAGGGG G G G G G GA G G GAGAAGGGAACGGCCAAGAAAGGGGGGAGAAGAG AAAGGGAACCAAGGGAAGGGAGGGCAAAGGGAGAAAAAAACC AAGGGGAGACAGAAACGGGGACGACCAAAGAGGGAAGGGGGG GAA A A A GAGGGAGGCAAAAAGGCCGGGGGGGGAAAGAGAAGA G G A A A A G A G A A T G A G G A A G GAA A A A GAGAAGAGAGAAA GAA G $A C A A G G G A G G A A C C G G A A C C A A G A A A G G A A G G G G G G G G A A A A$ A GAGGAGGACGAACGGAAACGGACGAAGCCAGGAAAGGAAAAG G G G G A G T T G G G GCCAGGGAACCGGCCACAGAAACAGAGAGAA G GAGGAAAGGAAGGAACCGGGGAGCCAAGGAAGGAGACGGGG A A A A A A C CAA $A \operatorname{AGGGGGGGAACCAAAAAACCAAGAGGCAGAGA}$ A GAA A A G GCC G G A A G G G A G A G G G G G G A G G G G G A A A A A A G G G G GAGGAGGGAGGGGGAAGAGGGGAGGAAGCCAGGGCCCCBGGA A A A A A G A A G A G G A A A G A G A A C A G G A A A A G GA G G G G G G G G G A A G G G G GAAGGGCCGGGGAAAAGAGGGGGGGGAGCCAAGAGGCC A A A A C C G G G G G A G G C C G A G G C C C C G G G G G A A G G G G G G G G G A A
 G G A G G G G G G G G G G G G G G G G A G G A G G A C C C A A A A A C A A G G G C A C C A G A A G G G G G G A G C C A A A G C A GAGGAAAAAAAAA G G G G G C C A A A A A A A A G G GAGGGGAAAGAAAACAAGGGGGAGAAAAAAAA AAAAGGGGAAACGGAAGGGGAGGAACGGGGCAAGACAAAGAG A A GA $\operatorname{A} G C A A C G A G G G G A C A G G A A G G A C C G G A A G G G G G G G G A C$ A A G G A G A G G G G A A G A G A A $\mathcal{A} G G G A A G G G G G G A A A A G G A A G G C A$ CA $A G G G G G G G G G A A G G G G A G A G G A A G G G G G G G G G C A A C A A G G$
 A A G A A G G G G GAA $A \operatorname{AGGGGGAAGGGGAAGAGGCACAGACAAACA}$ C CAAAAGGAAACGGAAAAAGCCGGGGAAAAGGAAGGAAACAA A A A A A A G G A A G GCC GAGAAAGGGAAAGAAGGACCAACAAAAA
 $G G C A C A A C G A G G G G A G A G G A G G A A C C G G A G G G A A C A G A G G G A$
 G G G GAAAAAAGGCCGGGGAGAGAGAAGAGAAAGAGGAAGAAA GAAGGAAAAAAAAAAAACACGAAAAAGGGACAGGAAGGAA GA CAAAGGAAAGGAGGAACCGGGAAAGAGACAGGACAGAGAGAT G GCCGAGGGGAAAAGGAAAGGGAAGGGGGGAACAAGC
C G GAGGAAGAACACAAGGGGGAGAAAAAAGGAACCAAGGGG $A A C C C C A A G G A A A C G G G A A A G G G G A A G G A A G G G G A A A G A G G G$ $A G G G G G G G G G G G G A G G G A C A G G A G G G A G A G G G A A G G G G A A T T$ AAGGGGAAGACAAAGCAAAGAAAAGAAGGACCGGAAAAAAGB AAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGACGAGGACAA GAAAGGAAAGGGAGGAAAAAAAGGGGGGAACCAAAAGGCCAA AAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGGAAAAGA

ATAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCGAGAGAAC $A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A B A A G G G G G G$ G G G G G G A A A GACAAA A A A A A G A A G GAGGGCCGGA GAGAGCAGA AA $\operatorname{A} G A G G G A A A A A A A G C C A G G A G A A A A G C C G G A G G G A G A A A A$
 A G A G C A G G G G G G G A G G G A A C G A GAGGC G G G A G A A G G A A GAC C GAAGGAAGAAGAAGAAAAAGAAGATAAAGAAACCGGAAAGAA CAAGACGCAAAGAAAGGGACAGGAAGAGAAGGGGGGAAAAGA ACAGAAACGGAGGAAAAAAAGGGGGGGGGGACGGGGGGAGCC $C C G G A A G G A A A A A G C A G G C G A A A A A A A A G G G G A A A A A G C C A A$ ACGGAAAGGGGAAAAGGGGGAGCCGGACAGGGGGAAGGAAGG A G G G G A A A GAGGGGAAGGCCGGCCAAAAGGAAAAGGCAAACA A G A C G G G A G G A A A A A A G G G G G G G A C C G G A A C C G G A A G G A G C C A A A A A CAGCAACCCAGAAGGAAAAAAGGGGCCAAGBAAACAG GAAAGGCCAGGCACCCAAAAGGGGAGGAGAAAAAAAAAAAAA AAAACAGGGGCCAAAGCCAAGGAAAGGAAGAGGGGAGAGGGA
 $A G C A G G G A G A A G A G A A A G G G A A G A A G A A A A G G G G G G G A A A B A$ A A T T G G G G A A G GC G A A G G G G G G A CAAAAGGGGACCCAGAGAA AACAGGGAACACGGGGAGAAGAAAAGGGGAGGGBAAAGAGGG GGACCCAAGAAAGGAGCCGGAACCAGAACCAAAGGAGGGGAA G GAAAAAAGGGGGGAAGGAAAAGGCCGGGGAAAACCAAGGAA C CAA $A \operatorname{GAA} C \subset A A A A G G A A G G A A G G C C G G G G A A G G G G G A C A G A$ G G A A A A G A A A G G G G G G A GAGGACCGGAACCAAGGAAAAAAAG A G G G G A A G G G A T A A A G G G A G G A A A G G C C G G C C A A A G G G A G A G A A A A A A G GCCA $C$ G G GAAAAGGTTGGAAGGGGAAAAAAAAGGGG A A G GAA A G G GAAGGAAAAGGGGCCAAAACCAAAA GAAGGGGA GAGGAACAAGGGGGGAGACAAAGGAGAAGGGGGGAAGGAGAA A A A A A A A A GACCC GAGAGAGAAGAGGAAGAGGGGAAGAAAAG AAGGCCGGGGCCGGAGAATAAAAAGGAAAGGGAAAGAAAAAA G G A A A A A $\mathcal{A} G G G G A A G G G G A A C C A G G A G G G G G A A A G G A A A A A A$ GAGGGGAAAGCCCAGAGGAAAAGGAAAGGGAAGGGAAGGGGA A A A A A G GAA $A$ A GAATACCGGATGGACCCAGGGGAAGGGAA GA AC GAAAAAGGGAGAAGCCAAAAAACAAGGGGGAAGACA GAAG $G G A A G A G A G G A G G G G G A A G G A A A A A G A A G G A G G G G A G G C C G G$ A A A A C C G G G G A A A A A GAGCAAAGGAAAAGGAAACGAACACAC A GAGGGAAAGGAGACCCAAGGAAAGGAAAAGGATAAGAGCAT AAGGAAAGAAAACCACAGAAAAAGCAAGTTAAAACACC G GAAA A GAAAAGGCCGGAAAACCCAACAAACAAAGGGAAGAGGAGAA
 C CAGAAGGGAAGGAGAGGGGCCAAAGAAAAGAACCCGAAGAG C C A GAGCCAAGGCCGACCAGGGAACGAAAACCGGGGGGAGCC G G G GCAAGGAGGAAGGAAAAAAAAGGAAGAGGGAGGGGGGGG AAAACCGGGGGGACATGGAAAACACGCCGAAAAGAAAAAAAG GAAGAGCAGAAAAGGAGGCACCGGAAGGGGTTGGGAAGGGGG G G G A C A G G A A A A A G G G G GCCCCGAAACAGAAGAGCAAAGGAG G G G G A A A A A A G GAA $A \operatorname{GAA} A G T T A A G A G A A A C C C A A A A C A A A A$ AACCAAGGAAGGGAACAAAGAGGGGGACGGCCCAGAGACCGG AAAAAAGAAGGCGACCAAGGAGGAAGAAAGGAGAGGGGGGGG GAAAGGGGAACAGACAAGGGAGACGCCAAGAAGAGACAAGCA CCCCGGAAAAAAACGGCGAGGACCAGCCCCGGGAAGAAAGCA
 G GCCTA C C A G GCCGGAGGGGGGGAAAAAGAAGGAAAAAAGGAG G GAGGGGGAAAAGGAAGGGAAAGGGAAAGGGGGGAGAAAGGG $A C G A A A A G A A A G A G G A A A G A A G G G G G A A G G A A A G G A G G A B A A$ G G G A A A G G A A G G G G G G G GAGGAAGCCGGTTGGAGCCGGGAAA
 A A G G G A G G G A A A G G C A G A A G G G G G G G A A G A A G A A G A G G G G A A GAGAAGAGCCAAGGAAAAAAAAGAAAAAGGGGCCGGGGGGAC

CAGGGAGGCAGGGAGGAAAACAAAAAGAAACCAAGGGGAGGG G G A A G G G G G G G G G A G GCCAACC G G G GAA A GAGGACA A A G G A A CCCCGGAAGAAGGAAAAACCGGGGAAGGGGCAAGACAAAGAA GACCGGAACCAAGGAAGAACCACCGGAAAAAGGAGAGCACAC GAA A A A A ACAAAGGGGGGAAGGGAACGGGGGGCCAGAAAGAG A A G G A A A A $\mathcal{A} G A G G G G A A G A A G G G G A A A G G A G G G A G G G A A A A A$ G G G A G G G G A A G G A G G G A G G A G G G G C C G G G A G A G G G G A A A G G G $A A C C G G G G G A A A G G C C A A G G C A A G C A G A A G G G G G C C G G G G G G$ GAGGAGGAAACCGGACGGGAAAAGGGCAGGGGGAAGAAACBG G G G GAGGAAGGGAAGGAAGGAAAAGGGGAGGAAAGGAACCCC G GAGGAGGGGAAAAAGGGAGGAGGGGAGAACCGGCACAAGGG $A C C G C C A G A C G A G G A C G G A G G G C C G A G G C C G A G G A G G A A A A A$ A A G G GACCGGAGGGAAAACCGGAAGGCCGGAAGAGAAGAA GA GACAGAAGGGGGGAGGCAGGAAGGGGGAGGGAGGGGAA$G G G A A$ AGGAGGGGCCAAAACCGGAGAGAAAAAAACAAGGGGGGGGAA G G G GAAAACGAGCCGGGGAAGGGGAGAGAGGGACGGGGAGCA G G GACAAAAAAAAGGGAGGGGGAAGGGGCCAAAAAAAAACAA $A A C C G G A G G G G G A A G G G A G A A G A G A G G G A A A G G A G G G G G G G G$ $G G A G G G G A G A A A G G A A G A G G G A A G G G A A A A G A G A T A A A G G G G$ G GAAAGGGGGAGAGAGGAAGGAGGAGGAAAGGAAAACCAGAG G GAAAAAGGAGGAAAAGGAAGGGGGGAAGGAAGACCAGAAAA G GAACCGGAAGGCCAAAAGGGGACGGACGGGGAGCAAAGGCC G G G A A A G G A A C C G G G G G G G G A A A A A A GAAA A G G G GAA GAA C A GAGAAGGAGAAGGGAAAAACGGAAGGAGAACCCAGACCAABA G G G A G G G G GAA $A$ A A A A A G G C A A A A G G G G G A A A A A A A A A A G G G G A A A A ACAGAGGGACATGGAATTCCAAGAAAGGAACGCAAGCC G GAA $A \operatorname{GA} \operatorname{A} A A A A G G G A A A G G T T G G A A G G A A G A A G G G A A A A A A$ AAAGGGGAAAGGAAGGAAAAGGAACCCCGGAGAAAAGGGGGG G GAA A G GAGGGGGAAAAACCAGAAGAGGAAAAGGAGGACAAA A GAGAAGGGGACCCGGGAGGAAAAGGAAGGAAGGCCGAAGCC C C CAC CAA G GAAAGAAAGCCCCGGAAAAAAAAAAGGGGAAGG AAGGGGGGAACCAAGGCCAAGGGGAAGAGAGGAAAAAGGGGG GAGGGAAAGGAAAAGGACGAGGAGAAGGAAAAAAGGAGACAG AAAGCAAAGGAGAAAGACCCGAACGGGAGGAAGGAAAACCCC G G A T T TAGAAAAGGAGAAAAGCAGAAGGAGCAGAACAGAAGA C C G G G A A A AC G A A GAGAAGGGGGAAACCGGAACCAAAAAAAA AAGGGGAAAAAAAAAAGGGGAGCAAAAAGGAAACGAAAGGGG G G G GCAGACGCAAAAAAAAAGAGGGGGGAGAACCAGAAAAAA A GAGGAGACCAAAGAGCCCATTAAGGAGGACAAAAGAGAAAG
 AAAGAGGGAGGGACGGGGAAAAAAGGAAGGGAAAAAGGAGAA
 GACAGAAGGGGGCCGGAAAGCCAAGGGAAGAAGGAAAAGGGG G G G G G GAGGGGGAAAAGGAGGACCGAGAGGGGAACGAAAAGG GGCCAACCGAGAGAAGAGAAGGGGAGGAGAGGACGGAGAGAG A A G G G G A A A A A A A A A A $\mathcal{A} G G G G G A G G G G A A A A A G G G A G A A A A G$ $G G A C A G A A A G G G A G A A A G A T G A C C A A G G C C G G A A C C A G A G A A$ GAGAAAAAAGGAGGGGGGGAGAAGGGGGAACCGGCCGAGGGA A G G GAAAAAAGGAAGAAAGGGGCCAAAAGGAGGGAAAAAAGG G G A A G G G G G G A C G G A A A A A G A A A A G G G G G G A A G G G A G G G A G G G G G G G GAA $A$ A A A A GAGGAAAGAGGGAGAGAAGGAAAACCAC A A GAACAGAAAGCCACGGAAAAAACCAAGGAAGAGGAGG
GAGACAAAAGGGGAGAAGGCCCAGACAGGCCGGAACCAGCC G GAGGGCAGAACGGGGAAAGACAAGAGGGGAAAGAAAAGGAC CAGGGGGGAGGAGGAGAGGGAAAGAAAAGAGGGGAGAAAGAA A A G G G G A A A A G A A A A A T T G GAAA A A GCCGGGGAGGAAA G G G A GGCCAGAGAAGACCGAAAAGGGGAAACCCGGAGACAAGATAG GGGAGGAGACAGAAAAAAAGCCGGCCCCCAGAAAGGAGAAGAG $G G G G G G A A A A A A G A G G G G A A A A G G G G A A G G G G A A A A G A C A A G$

GAAAGGAAAAGGGGGGAAGGATGGGGGGGGAGAAGAAGCAAA G GCAGAAAGGGGAAGAGGAAGGAACAGGGGGACAAAAAGGGG AGAAGAAGCAAGAGGGGGGGAGAAAAAAGGAACCAAGGAGAA GAAACCGGAAGGGGAAAAAGAAGGGGCCAAGGAGAGAGAAAA GAAAAGAAAAGGAAGAAAAGCCGGGAGAGAGAAACGACAGGG G GAA $A \operatorname{GA} G G G A A A G A G A A A C A A A G G G A A C C G A C C G G C C G G G G$ GAAAGGGACCGAAAGGGGAGTTAACCAAGGCAAAAACCAAAG G GAGGGAAAAAGAGAAAAAGGGGAAGGAAGGGAAAAACAAAA G GAA $A \operatorname{G} A A A \operatorname{A} G G A G G G A A G A A A G G A A C C G G C A G A C C G G G G G G$ $C C C C A G A G G G G G C C G G G G A A G G A A G G G G G G G G A A A A A A C C G G$
 A A GAA ACCGAAGGGGCGGGGGGACGGCCGGGGGAGGAACCAG
 $G G A G A A A A G A G A G G A A C C G A G G C A A A A A G G A G G G A A A A A A G G$ G G G GAA A G G GCCGGGAATAAGAAAAAAAAGAAACAGAAAAAA
 GAAACCGGAGACCAAAAGAAGCGCAAGGAAGGACCCGAAAGG A G G G A GACAAAGGAAAGGCAAAGGAAGGGGAGGGAAAAGGCC GGAGGGACCAAACCGGAAAAGGAAGAAGCCGGAGGGCCAAAG C C G G G A A A A A A G GAAA $A \operatorname{A} A \mathrm{~A} C A G G A A A A A A A G G G G A G A G A G A A$ GCAAGGAACCACGACCGGAAGGAAGGGGAGAAGGGGAAGGGG AAAACAAAGGAGAAGAAACCGAGAGAGGGGAAAAGGGAAAAG CAAAGGAAAAGACCGAGAAACCGGAAAAAAGGGAGAGGGGCC G G G G G G C C G G G G A G A A A G G G G A A A G G G A A G G G G G G G C A A A G G G G GAA A A A A G G GAAAA A GAGAGGGAGCAAAACAAGGAAAAAA G GAAGGGGGGGGAAGGGGAAGGAGGAAAAAGGGGAGAAAGAT A A G GACAGGAGGAAGGGAAAAAAGAAGGGGCCAAAAGAAGAA G GAGAAAAGAGGAAGAGGAGAAGAGGAAGGAAAAGAGAAAAA GAACCCGAAGAGAGAAAACCCCAAAGCCGAGGTTAAAAAAAA AAAAAGGAAGGAAAAAAAGGAAAAAGGAGGGGAAAAAGAAGB A GAA $A \operatorname{GGG} \operatorname{G} A A C A G A A A A A A G A G G G A C A G G G A G G A G G A A G A G G$ G G G G G G G G G GCA GC GAAAAAGGAACGGGGAGGCAGGGGAGAA G G GAGGAGAAAGGGAAAAAAGGGAGGAACACCGGCCAAAAGG $G G A A G A G A A A G A G G C A G G C C C A A A G G G G G G A A A A G G A G A A A C$ $A G C A A A A C G G A G G G A A A A G G G G A C A G G G G A A G G G A A G G A G A G$ $G G A G A C G G G G A G A A G G A G G G C A A G A G G A A A A A G G G A A G A G A A$ G G G GAAAACCAAAAGAAAGAGGGGGGCCAAGGGGGGGAAAAG AAAGAGAAAAGAAAGGGGCCAAAGGAGGGAAGAAGACAAAAA G G G GAAGACCCCAAAAAAGGGGAACCGAAAAGAGGAAGAAAA A A G G G G G G A A C A A A GAAC GACCGGGGAAAGAGAGGGGGAGTA GAAGAAAAAGAAGGGGAGAGGGAGAAAGAATTGAAAGGAAAA G G G G G A G G A A G A A G G G C CAA A A A G GAA A G GAGAGGGACAGAA G GAGACGGAAAGAAGGGAAAGGGGGGAAAAAACAGGAAAAAG $G G C C G A G G G G G G A A G G A G G A G G G G A C A G G G C C A A G A A A A G G G$ $A G A G G A A C A A A G G G G A C A A G G G G G A A A A G A A G$
 A A G G A A GCCCCCAAGGGGGGCAGGAAGGGAGGCCAAAA G GAAA C C A A A A G G G GAAAA A GAACCGGGGAAAGACAAA GCCGGGGAA A GACAAGGAAAGAGAAGAAGAGAGAGACGGGGCAAGGAGAAA AAAAGAGAGGAAGGACAGAGCCGGGGAAAAGAAAGGAAAAAA C CAAACAGAAAAGGGGAAGGGGGAGAGGAGAGACAACCGGAA $G G A A A A G G G G G G G G G G G G G G G A A A G G G G G C G G A T A G A A A G G A$ G G A A A A A A A A C CA G GAAAAAGGAACCAGAGGGCCGGAA GAAA AAAAGAAAAGAGAAAAGGAAAGAAGGCCAGACAGGGGGGGAG CAGAAGAACCGAGAAAAAAAAAAAAAAAACGAGGAGAAAAGG AA $A G A A C C G G A A A A C C A G G G A A G G A G A A G G A A A A G G T X A A G G$ AAGGGGAAGGAACCGAGGAAAAAAAATTCCGGGGCCGGAACC A A G G A A G G GAA G GAAAAAGAAAGAAAAGAACAGAACGGAAAA $G G A A G G A A A A G A G G G G A A A A A G G G A C G G A G G G A A A A C C B G A A$

AAGAACGAACAGCCGGCAGGAAAACCGGGAAAAAGGAGGGGG A G A A A A A A G GAACCGAGAGGAAAAAGCCAGAAAGAAAAGAAG A GAGAAAAGGAAAAGGAGAGAACCAAAGCAGAGAAGAACAAA GAAGGGGGAACCGCGGAGGGGGGGAAGGAAGGCCGGAAAAAA A A A A G GCA $\operatorname{A} G A A G G G G C C A A G G G A A G G G C C G G A T G G G G A A G G$ G GAAAACCAAAAAACAGAGGAAGGAATAAGCCAAAAGGAGGG GCGAAAAGGAGACCCCAAGGAAGGAACCGGGGAAGGGGCCGG AAAAGGCCGGAAAAGAGGAAAAAGGAACGGGGAAAAAAAAAA G G A A G G A A A A G G G G C G A A A A G G G G A A G G A A G A A G G GAAAA C C AAGGAAAAAAGGGGCCAAAAGGAAACGAGATAACAGAAGAAA G GAA A A GAA $A$ A $A$ GAAGGGGGGACAGGGAAGGAAGGAAAAAAAC GAGGTAAGTTCAAAGGGGGGAAAACCAAAAAAAACCAAGGGG A A A G A A A G GA GACCGGAAAAGGAGACGGAAGAACGAGGAAGBG GAAAGGAGGAACGAAAGAAACCGGCCAAAGGAAGAAGGGGGA A G G G G G G G A A A G G GAACCGGAACCCAGGAGGAGAAGAAGGCA AACCGCCACAAAAAAGGAAGAAGGAAAAAAAACCGGGGGGAG A A A A A A A G A A GACCAA G GAAAAGGGAAAAGAAA GAGAGGGCA A G G G G A A A A A C C G GAAAAAAAAGGAGAGAAAAGGACGAAAA G CAGAGGAAAAAAGGGGAATAACGGGGGGCCAAGGAAAAAAAA G G G A A A A A A A T T G G A GCAG GAGAGCATTGGCAAAG GAA GACA AAGGGGAAGAAAGGGAGGGGAAAGAAAAGGTAGGGGAGGGGA A A A A A A G GCCAAGGGGGGAAAAAACCGGGGAAAAACAGAGGG GACCAGACGGCCAAAGCGCCAGAGCAAAAAGGCCGGACAAAA
 $A G A G G G T T A A G G G G G G G A A A G G A A G G G A A A G G A A G A A C A A A G$ GAAAAAGGGAAGAAGGGGAAGGGGAAGGCAAGGAAAGGGGGG G G G G G GAA $A \operatorname{GAA} \operatorname{A} A A A G G A A A A A A G G A A A A G G C A G G G G A A A A$ A A A A G G G G A A G G G G A A C C G GAGAGAAAGAAGGAAGAAACAAC G GAAAGAGAGCCGGAGCCGAAAAAAGGGAGGGGGAAGGAGAA AACCCCAGAAAGAACCAAAGGGGGAGACAAGGGGGGGGAAAA A A A C A GAGGGAGGAGAAGAAAACCAAAGAGCCCAAAGAAAAA AA GAGGATCAGAGGAACCGGGGAACCGAAAGAGGCCAGAAGAA
 G GAGGGGGAGGAAAGGGGAAAAAAGGCCAACCAAACCACAAA GAGAAAAAAGGCGAGAGAAGAGGAGGAAAAAACCAAAA GAAA G G A A A A G G G G A G G G A C G A G G G G G G A G G A A G A A G G C C C C A G G A G GAAAAAGAACCGGAAGGAAACGGAGGGAAGACCAGGGAGGG G GAAAGCCAAAGAAAAAAGAAAGAGAAAAAGGAAAACC G GAA G G G G A A A A A A A A A C GACCGGAGGGCCCCAAAAGGCCAAAA G G AAGGAAAAAACCAGCCGAGAAAAAAACAAAGGAACCAAAAAG AAGGGAGGAAAAGGAAAAACGAAGGGAAGGAAAAGAAACCGG G GAACAAAAACCAAGGAACAGAGACCACGGCAAAAGAGAGAA G GAAAAAAAAAAAGAAAGGGACGGAAAAGGAAGAGGAAGGGG AAGGAGCCAACCCCCGCAGGAGGAAAGGGAAGGAGAAGAAGG C G G A G A A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A C C G G C A G G A G G A G A G G C C A G A A$ G G A A C C G G A A A A C A G A A GA G G G G A G G G G G G G G C C A G G G A C G G GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAGGGG A A G GAAAA $A \operatorname{A} A A \operatorname{A} A C C G G C C G G G G A A C C A G G G A G G G G G G G G G$ GAGAGAGGGGAGAAGGGGTTGGTTAAAGAAAAAAAACACCAG A A G G G G A A A A A GCA $\mathrm{A} A \mathrm{~A}$ GAAGGGAGGAACGGAAGGCAGAAGAG G G G G A A A G GA G GAA A GAGACAAAGGGAGGGCCGGGGAGAAGG A A A A A G G A T T A A A A G G A A A A G G G G G G G GAA $A \operatorname{GGGGGGAA} G G G G$ G G G G A A G G A A A A A A A A A A G G G G G G A A C C A A G G A A A A G G G G A A G GAATTGGGGGGGGGGCCGGAAGGAAGGAAAAGGAAGGAAAA G G A A A A G G G G G GAA $A \operatorname{GAA} A G G G G A A G G A A C C A A A A A A G G G G G G$ C C A A A A G G A A G G G G A A A A G GCCAAAAAAGGAAGGCCGGAGAA G G G G G A A A A A A A A A A A A A A A A A C CAAAAGGGGAGGAGAAGAA G G A A A G A A CAAAAAAGAGAAACAGGGCAAGGAGBCCCCGGGG $G G G A G A G G G A A A A G G A A G A A G A G G C C G A G A A A G A G G G A A A G G$

A A A A A G GAGGAAAGGGAGCCGGGGGGAAAACCAACCAAGGGG G G T T G G G G A A G G G G C C A A A A $\mathcal{A} G A A G G G G A A G G G G G G G G G G G G$
 G G G G G G G G A A G G G G A A A A G G G GAAAAAAACCGGGGGGGAAAAA G G G G G GAA A G G GCCGGGGAAGGAAAAGGGAACAACAAA GGGG A G G A G G G G G G A A A A A A G GA $A$ A A A G G G G G G G G A A A A A A G G G G C C A G G GCCGGAGGAAAAAGGGGAAGGGAAGAAAAAGAAGGGGGG AAAGAGCGGAAAAAGACCAAACGGAGAAAAAAAGAGAGAAAA
 GAAGGGAGGAAGAGGAGAGAAAAAAGAAGGAGAGAGGAGAAA A GAAAAAGAGGAGGAAACCCGGAAGGAAGAAGGGAAAGAGAA G A G G A C G G G G T T G A G G A C C G T A G A G G A A G G A A G A A A A G A G A G G G G A G GA GAGAGAAGACAGGACAAAAGAGGGAGAAGAAAAAG ATGAAAACGGGGAAATAGAAAGACAGGGGACGGGGCGGAAGG G GAGAAAAGGAAGGGACCGGAAAAAGAAAAAAGAAGAAGACC AACCAGGAAAGAGGGAGAGGCAAGAAAACCGGATGGGGGGGA A A A A A A G G G G A A G G A A A A G G G G G G A A G G G GAAAA G GAAAAAC AACCGGAAAAGGAAGGAAAAAAAAGGAAGGCCGGAAAAAAGG AA $A G G G A A G G G G A A G G T T C C A A G G T T A A A A C C G G G G A A G G G G$ A A A A G G A A A A G GAA $A \operatorname{GCC} C \subset C A A A G A G A C G G A A A A C A G G G G G G$ AACCGGAGGGGGGGAGGGGGAACAGGGGGGGGGGACAAGAAA G G G G G A A A A A GAAAGGCCGAGGAAAAAGAGAGAAAAAAAGCC A A C C A A G G A G G GCCCCGGAGAAAAAACAGAGGAGAAAA G GAA A ACCAAGGGGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG G G G G A C C C A A C C G G A A G G A A A G A A G G A A A A G G A A G G G G G G G G AAAAGGAAGGAACCGGGAGGCAGGAAAAGAGAGGGGAGCAGA G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A A A A A A A G G A A C A G A G G G G G G G G A G G A A A A C A$ G GCCAAAGCAAGGGGGGGCCGGGCATAAGGGGCAGGAAAABA A G G A A G G A C A G A G A GAGGAAAAGGAAGGGAAGACAAACAAAA $A C C A G A A G G G G G C C G G G G G G A A C C G G G A A G G G G G A G A G G G C A$ G G G G G A A G A C A G A A C A A GAAAAGGACGGCCGGAA G GAAAACC G GAAGGAAGGGGAAAAGGAAAAACAGCAGAACAGGGGAGGGG GACCAAGGAAAGGGAAGGAGGGGAGGCCAGAGAAGGACAAGG
 A A G G G A G G G GCCGGACAGCCAAGAGAAACCGAGACAGGAACC ACGGAAGGCAGGCAGGGGAAACAGGGAGCAACGGGGAGGGGG

 GAACAAGAGGAAAAGAAGGGCAAACCCCCCAAAAGACCAGAG A A A C A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G G G C C G G G G G G A G A A C C$ ACGGAAGAAACCAAAAAGAAAAAAAAGGAAAAAAAAGAGGGA
 AA G G G G G GAAAGAAGGGGAACCGGGGGAGGAAGGAGGGGAGG $A G G A A C A G A A C A A G G G A G G G A G A A G G A A G G G G G G A G G G A A G G$ G GCCCAGGGGGGGGGAAAGGGAACGGGGAACCCCGGA
AAAAAGGGGGGGGGGAAAAAAAAAAAAAACCGGGGAAAAAG A ACAA A G ACGCCAGGGGGGAGGGGAGAAGGACAACCGBAGCA G GCC C G G G G GAGGAGGAAAAGGCCAGAAGGAAGGGGGAGGGG A GAGAAAAGGCCGGAAAAAAAAGGCCAAAAGGCCAAAAGGGG
 A A G G G GAAGAAGCAGAGAGGAAAGAGAAAAGACAGGACAAAG C CAGAAGGGAAGAGGGGGAGAACAAGAGAACGAGGGAAAGGG C C C C G G G G G G A A C C A T A A G A A T G G G A T T A A A A G G A A A A C A G G AAGGGGAGAAGGAGGAGGAGAAGGAACAGGAGGGCCGGAGGG AAAAGGGGGGCGGCCCAGGAGGAAAAGGAAGGAGGAACAAAG CAAGGGAAACGAGGGAAGCCGGAGAAGGGGAACAAGGCAAAG
 $G G C C A A A G G G A G A A A A G A G G G G A G A A A A G A G G A G G G A A B A A A G$ AAAAGAGGGGGAGGCCAGCCAGAGACAGGGCCGGGGAAGGAA

G GAA A GAAGGGGAGCCGAGGGGAGGGAAGGAAAGGAGAAGGA A A G GCCTTCCCCAAGAGGAAGGGGGAACAAAGGGATAAGGGG A A A A A GAA $A \operatorname{G} G A G G G A G A A A A G G A G G C C G G G G A G G A C A G A A A$ AAAAGAAGAAAAAAGGGGCCGGGGCCGAGGGAAAAAGACCAA G GACCCGAGAGAGACAGAAGGGGAGGGGAGAGGGGGGAAAAA G G G G G G A A G GCCGGAGGGGAAGAGCGACGGGAGAAAGGAAAA
 AAGGAAGGAAAAAAGGAGGGCCGAAAGGAAAAAACAGAAGGG A A A A A G G G A A A A A A A A GAGGAGAAAGAAAAAGGGAAAACCGG G GAAACAGAGATAAGGAAGGAAGAGGGGGGAAGGAAGAAAGG G G G GAAAAGGCCAACCAAAAAAAAAAAAGGAACCCCAACAAA
 GAAGGGCCGGAAGAAGGGAGAAAGAGCGGAAGCCAAGGAABA
 AAAACCGAAAGGGACAAAAAAAGGAAGGAAGGAGGGGGGGGG ACAAGGGAGCAAAAAGAAGGGGAAAAGAAATAGGGGGGAAAAA A GAA A GCCGAAGACCCGGGGAGGGAAAAGGAAAA GAGBCACC
 A A G G G G G G G G A G G G A A $\mathcal{A} G G G G G G G G G A A G G A A G A A G A G A G G G$ AA A G G GAACCTTGGCCCCGGGACCAACAGACAGGGGGAAAAA AA G GAAAAGGAAGGAAAGGGGGGGGAAAGGGGCCGGCCGGGG CAAACCAGGGGGGGGGGAAGGAGGGGACGGAAGAGACCGGGG A GCCGGAAAAGGGGGGTTGAAGGAGGAGAAAGGAGAACAAAA A A A A G GAAGGAACAAAAAGGCCGCGCAGAAAGGACCAAGAAG A A G G G G A A A A A A A GAACCGGAAAGCCCCAAGAAGAC GAAAAA
 C C A G G GCCGACCGGAAGGAAAAGGAACCGGGGGGAAAAGGCC A A G G G G G G A A G G A A G G A A A A G G G GAACCCCGGCCCCCC G GAA A A G G A A A A G G T T A A G G G GC C G G A A A A G G A A A A A A A A G G G G A A AAGGAAAAGGAAAAAAAAAAAAAAGGCCAAAAAAAAGAGGAA GAGGAAGGAAAAAAGGAAAAAGAGACAGGGAAAAGAAAGAAA AAGGAAAAAGAGAGAAGAACCCAGAAGGCGAAAAAAAAAGGG AAGGAAAAAAAACAAGGAAAAAAAAGAAAACAAAAAAAAAAA A A G GAAAAAAGGGGGGGGGGGAAGAAGGACGAGGGGGAAAGA ACAGAAGGAAACCCGGGGAAGGAAAACACAAGGGACAAGGAA G GAGATGGCCGGGGGAAGAAGGAAAAAAGGGGAAAAAAGACA AAAGCCACGGAAGGAGCCAGAAGGCCGGAAGAGGGGCCBAGG CAGGACAAGGAAAGAGCCGAAGGACAAACAGGCAGGGGAAAG A ACCAGGGGGGGAAAAGGGGAAAAGGCCAAGGAAGGAAAAAA
 $A C G G G G A G G G G G G A A A G G T T A A G G A A A A G G G G A A A A G G A G A G$ GAGAGAAAAGAAAGAGGGAGGACAGAAGAAAAAAGAAAAGAG
 G GACGGGAAGAAAAGGAAAAAGAGTTAAAGACGAGAGA GAAA A GCCAAAGAACCAAAACCGAGGGGGGCCGAGGACTTACAGGG A GAGAAAAAACGCCGGGGCAGAGGAAAGAAAAAGAAGGGGTT G GAGAAAGAACCGGCACCGGAAGGCCAAGAAGGAGGGAAGEG A GCCTTGGGGAAAACCGGAGAAGGGGGGAAGAAGGGAGAACA AAAGGGGGAGGAAAAAAAGGAACAACGAAGGAGGGGAAAGAC CAACGAGGAGGGAGGGGGAAGGGGGGAAGGAAAGGGGGAGAA GACCAAGAACGACCAGGAGGAAGAAGGAGACCGGAAGAAGAA CAGGAAGAAGACAGAGGAGGGGAAAAAAAAGGAACAAA GAAAA A ACGAGTAGGGGGAAGGGAAAGAAAGCCAAAGAGAGAAAAAC G G G G G A A A GACACCTACCGGGGAAGGTTCACCCCAAAGAAAC A A GAGGAGAGGGAAAAAGAACCAAGGAAGGGGAAAAAAGGAA G GAAGAGACCAGCACAGGGAAGAAAGAAGGAGAGAAAGGGGG G G G G G G GAGGGAGGAAGGAAAAAAGAAGGGAGAAGAGAAAA G
 A GAAAAAAAGGGGGGGGGGGGAAAAAAGGAGGGGGGGGAGAT

G G G A A T G G A G G GAAGGAAGAAAAAGAAGCCCAAAAGGGCCAA A A G GAACCGGAAAATTAAAAGAATAAAAAGAAAAGGGGAAGG A A A A G A G G A GAAGGGGTTCCAGGGCCAGTACCGGAAAAGAAA G GAA $\operatorname{G} G C A A A G G A A A C G A A A A A C C G A G A G A A C G A G G G G G G A G$ GGAACCAGCCAACCGGGGCAGAGGAAGAAGAGGGGGAGCCCC A G G GCGAAAAGGGGCCAAGGGGAGAGGGAACCAAGGGGAAGG G G A A G G G G A A G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G}$ GAACCGGAGAGCACAAGTTCCAG $A C A A C C G A G A A G G A A A A G A A A A A G A G A A A A C A G A A C G G G G A G$ A G A A G G G G G G A G A A A A G G A A T A A A G G C A A GAGCAAA A A A T G A ACGGCCGGGGAAAAGAAGAAGGAATAAGAAAAGGAAAAG GAA G GACAAAGGAGGAGGGCCCCAAAAAACCGGAGAGCCCCGGGG G G G A A C A G A A G G A A T T G G G G G G A A A A G G G A A $\mathcal{A} A \mathrm{~A} G A \operatorname{G} G \mathrm{G} G \mathrm{G} G$
 A G A A G G C C G G G G G G C C G G A A C C G G G G C C C C C C C C T A G G T A T T G GAAAA $A \operatorname{A} A A A A A A A A G A A G G G G G G C C C C A A A A A A G G G G G G G G$ G G G G GAA $\operatorname{G} A A G G A A G G A A C C G A A A G G G A A G A A G G A C A G A A A A$ G G A GAAAAAAGGCCGACCAAGGGGGGAAAAGGGGGGGGAAAA G G G GCCAAAAAAGGAAAACCGGCCGGGGGGGGAAAAGGAGAA A A A A C A A A A G G G A A A A A A A G GATACCAACCAGTTGGAAGGCA G G A A A A A A G G A A C CAAA A G G G G G GAAAAAAAGA GAA G GA GAA AGGAAGGACCGGAGGAAGGAAACCACACGAAATTGGAAAGAA G GAACCGGGGAAAGAGGAGCAAAAGGAAGGGGCAAAAAAAGG G GAACAGGAAGGGGAAGGGGGGAAAAAAAAAGAGGGAACCAA GAGGAGACAAGAAGAACCGACACCAGGGAAAACCAAAAAAAA $G G C C A A G G G G G A G G A C A A G G C C G G G G G G A G A G A G A A G G A A G A$ C GAAAGGGGGCGAGACAGAAAAGCAGTAGAACGGCCGGEAGA A G TAGGAAAAGGAGAAAAACAGGGCAAAAAAAAAAAAAAAAA A A A A A A G G A C G G G G A A $\mathcal{A} G G G G G G G G G A A A G A C A A A G C G A A A A$ AAAGCCAAAAAAGGCCAAGGCCAGGGCCGGAGAGAGAAAGAA
 A A G GAAAATTAAGAAACCGGGAAATAGAAAAGAAAAAAGAAA AAAAGACCCCAACAAAGGGAGGAAGAAGGAACCCGAGGGAAA GGCCAAAGGACCACAGAAGGCCGGCAAAGAGGCCAAAAGGAC A GAAAAAAGGCCGGCCAAAAGGACAGAAGGGGGGAAGGAGGA A GAA $A \operatorname{G}$ GAACATAAGAGGAGAGACAAAAACCAAGGAAAAACGG A GCCAGGGCGAGAGGAAGCCGGAGAAAGAACCAAACAACCBG GAAAGAAAAGGGAGCCGGCAAAAAAGGAAGGGAAATAAAAAA $C \subset C \subset G G C C G G A A A A A A C C A A G A G G G A A A A G A A A A A A A A G A A A$ A A A A T T GAGAAAAGAAGAAGAGGGAAGGAGCAGGCCGGAAAA G G G G G G G G A A C C G G A A A A G G C C G G T A A G G A G G C C G G A A G G G A A A G G G GAAAGAGAGAGGGGAAAGGAAGGAGAAGGGAGAAAAA GAAAGGGGATAAAAAAAAGAAGGGAGAAAAACTTGAAACCGG AAGAAAAAAAGAGGGGCCCCGGTTGGAACAAAAAGGGGCCAG G G A A A A G G A G G G G C A A G A G G A G G G G G G A GAAGGACCAAAA T T A A A A G G A A G A G G G A A A $\mathcal{A} A G G G G A A A A G G G A A T A G G A G$
A A A G G A A A A C C G G G G G G A A G G G G G G G G G A A C A GAGAACAA A G GCCAAAACCAAACAAGGGGCAAGAGAACAAAGAGGGGAAGG G GAAGGGAAACCGGAGGAGAAGAAAGAAAATAGGAAGAAAGG G GAAAAGGAGAAAAAGACGAAGACAAAAAGCCGGAAAATTGG A GCGAAGGCAAAGAACAACCACAAGGGGAAGGAGAACCAATT A A A A A A A A A A G GAAAAAGAACAAAAAGAGGAGAGGGAGAAAG G G GAGAGGGAGAAGCCGGAAAAGAAGGGGGAAGAAAGAAGGA $G G C C A A G G G G A G A A C A C C G G G G A C A G G A A G A G G A G G G G A A G A$ GACAGGAAAAGGAAAGCAAGGAGGACAGAGAGTTAAGGAAGG G G G GCCAAGGGAAGGAAAGGACAAAGAGAGGGAAGGAAGGAA G G A A C C G G A A G G G G G G A A A A C C A A A G G G G G GA G A A G G G G G G G AA $A \operatorname{GAA} A A G G G G C A A A G G G G A A A A A A C C A A A A A A G G A G A A G G$
 G G G G G GAAAAGGGGCCGGGGCCAGGGAAGGGGGGAAAACCCC

AAAGAGAAGGGGCCAAAGTAAAAAGGAATAAGTTCCAGCCGG
 A $G G G A A A G T A A A G A G G G G G G G A G G G C C A A G A A A A T G G A G A A$ A A G GAAAGAAGGAGAAAAAAAAAGGGGGGGGGACTTAAAAAG G GAAA AAAGGGAGAACAGGGCGCCGGAACCAGAAGAAAAAGA A A A A A A A A A A A ACCAAAAAAAAGGAATTCCAAGGAACCAACC G G G G A A G GCC G G G A A G G GC C A A G G G GAAAAAA AA GA GAAAAC
 GAACACGACAGGAGAAAAAGAGAAAAAAAAAAGGAAAAGAAA $C \subset A A G G A A G A A G G G A A G C G G A G G G A G A G A A A A G G G G A G A G A A$ A A A A GA $A \operatorname{GA} A A A G G G A A C G A G G A A A A G G A G A A A C G G A C G G G G$ G G G G A A C C G GCCGAACGGGAGAAGACAGGGAGAGAACAAA G G C CAA $A \operatorname{GGC} G A A A A G G G A G A G G A A A A G G G G G A A A A C G G A G G G G A$
 GAGGGAGGACGAGCGGGGGGGGGGGGCCAAAGGGGGGGGGCC A GAGCAAGAGGACAAGGAGAAAAAGGGGCCGAACCCCCGGGA A A A A A A G G G G A A G A A G G G GAGGCAAGAGAGGAGGGGCC G G GA
 $A G C C A A G G A A G G G G G G G G G A G G A G A G A A A G A A G A G G A A A A A A$ AAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGCAAAAGAC GAGGGGAAGGGGCAAAAAGGGGGGAAGGAGAGAAAAGGAAAA C C GAAAAAAAGAGGCCAGGAAAAGGGCCGGAGAAAAAGAAGG GAAACCAGGGAGGAGGAAGGAGCCGGAAGGCCAAGAAGAGAA A A GA $A G G G C C A G G G C G A A G G G G G G A G G G C C G G G G A A A A A A G G$ A G G GAGGGGGGAGGAGGGCCAAAAAAAAAAAAAGAAAAACAA AAAGAAGGAAGGGGGACCAAAGGAGAGGAAGGCCAAAACAAA A GAGGAACAGACGGGGGAGAGGACAGGAGGCCAGAAGAAAGA CCGGGGGGAAGAGAAAGGTTGGAAAAGGAAAAAACCAAAGAA AAAGGGCCCCGGAAAAAGAAAGAGGGCAGGGACCAAAAAAAG GAGGAGAGGGAAAGGAGGAAAAGGAGAGAAGAGGGGGGAAGAG $G G A A G A G A G G A A A A A G A G A A A G G A A G G A C A G G G C G G G G G G A G$ A GAGGGAGGGAGACGGAGAGGGGGAAGGCCAGATGGGACCAA A A A A A A G G A A A A G G GAAGAAAGAAGGAGGAAAAACAAAAA G $A$ A G G G G G G G A A C A A A A G A A G G G G A A G G G G G G A A A A C C A G C C G C A A A A A A A G G G A A G GAAA A A A GGGGAAAAAAAAGGGGGGACCAG GAAAGGGGGAGAGGCCAAAAGGAAGAGAAACAAAAAAACAGB A A G GAAAGAGGGGGGGGGAGGAAGAGGGAAAGCGAAAGACAAA
 C C GAGGTACAAAAAGGAAAAGGGGGGGAGACGAAAAGAAGGG A A A A A C G GCCGGGGACGGCCGGGAAGAAGGAGGAAAAAGGAA A GAGAAACAAAAGGAAAAGGCCAAGAGAAGGGGACAAGAGCC GAGAAAGAGAGAAGAAGGAGGGCCCCGGGAGAGGGGGBAACC GGGGCCAAGGAAAAGGAAGGGAAGAACAGGAAGGAAGGAAAA
 G GAGGGACGGAAAGAACCAAAAGGGACCAAGAAAGGAGAGAA G G G G G A C A GACCCCAGGGAAGGGGGAGAAACCAAAAGGCCAA G G G G G GCC GAGGAAGAAAGGGAGGAAGGGGAAGAA GAGAAGAG GAAA A G G G A A G GAAAAAAGGAAGGGGGGGGGGGGGAAGAGGG AAAAAGGGGGAAAACCGAGGAGTACCGAAAAAACAGGGAAGAA A A A A A A A A G GAAGAGAAGGGAACCGAGGAAAGCCAAAAAAGG G GAGGGGAGGAAGGAAAAGAAAGGCCAAAGAGGAGAGAAAGA A GAGATAGGGGGAAGGGACAAGGGGGAAATAACCAACCGCAC
 $A C A G G A A G G G A A G G G A G A G G A G G A G G G G G G A A G G G G A A A A G G$ GAAAGAAACCGGAAAAGGAAAACCAAAAAGACACGCGACAAA A A A A A A A A A A A A G G G GACGAACGAAGCAAGGAGAGGAAAGAA $A G C C G G A A G G A G G A C C G G G G A A A A A G A A G A A A G G G A A A G G G G$ $A G A A G G G A A G A A A A A A G A A G G A G A A G C C A C G A A G G G G G A G A A$ G G G GAA AGGGGGCCAGAAAAAAGGCCAACAGGAACCAAGGGG

A G G GAAAAAGGACGAAAGAAAAAGAAAAAAGCAAAAGAAAA A A A A A A A G G GAGGGGGAGGAGGGGAAAAAAAAAGCCAAGGAA A GAA A A A G GAAAGGGAGGGGGGAAAGGGAAGAAAAGGAAAAG GAGGGGGGGCGGAGGGGAGACAAAGGGAGAGAAGGACAAGGG
 AACCAAAAGGAAGCAGGGACGGCCAAGGGGAAGGGGAAGAAA A A G GAAAAAACCGGAAAAGGAAGGAAAAGGAACCGGAAGAAA $G G A A A A G G A A G G G G A A A A G G A A G G A A G G G G G G G G C C C C A A A A$ A A C C G G G G G G G G A A $\mathcal{A} G G G G G G G G G G G A A G G G G C C A A A G A A C A$ G GCAAGAGGGGAAGGAAGGGGGGGGGGGGGAAACGGAAGAAA GAA A A G G A G G G G G G G G G G G G T T A A G G A A A A C C A A G G A A G G G G G GAGGGAAAGAAGGAAGGCCAAGGAAGGAAAGAAGBAACCTT A A A TA $A$ AA $A \operatorname{G} \operatorname{A} A A A A A A G G A A G A A A A A A G G G G G G G G G A G A A G A$
 CAGGGGCAAACCCAGACCAGGGGGAAAAAAGGCAGGAAAAAA G GAAGGCAGGGGAAGGCCAAAAAAGGAAAATAAGAAAGGGGA G GCAAAAACGGGAGCACAAGAGGGTTAACCAAACBGAAACBG A A GAGGGGAGAAGGGGCAAGGAAGACGGGGGGGAAAACAGCC A GAGAAAACCGGAAAAGGGGGGGGAAGGGAGATTGGGGAGAA G G G A A A A A G G G GAA $A \operatorname{AAGGGAAAAGGAAAAGAGGCCCAAACAA}$ GAAGAGCAAGAGGGAAAAGAGAAAAATAGGAACCGGAAAACC C CAACCAGAGAAAAAAAACCGGGGGGGGAAAAA GAA GAAGGC A GCCGGAAAACCAGAGGGAAAAGGGAAAAAGGAGAAAAAGAG A A G G G A A A G G A A G G A G G G G G C C A A G G A A A A A A G G A A G G C C G G A A G G G A A G A A A GCCA G A A G A A A G G T T A A A A G G G GCC G G A G A G CAGGGGGAAAAAGAAACCGGAAGGAAAAAAAGGGAGAAAACC $C \subset C C C C G G G A A G A G G G G G A A G G A A A G A G C C A A A A A A G A G A G G$
 AACCCCAAAAGGAAAAGGAACCGGAAAAAGGGAGAGCAGGGG AAAGGAGAAAAAGAAGGGGGGGGGGGGGAACCAAGGCAGGGG AC GAAA A GCC G GAA A GAAAAGAACCAAGAGAAAAGAAAGGGG TTAGGAAAAAAAAAACAATAACGAGAGGAGGAGACAGGGGGA C CAAA $A$ A $\operatorname{A} A A G G A A A A T T A C A C G A G G G G G G G G A A A G G G A G A A$ CAGACACACCGACCGGGGGACCAAGGAAGGAAGGGGGGAGAA C C A A A A A A A A G GAAAAAAAGGGAGAGAGGAGAGGGAGGAGAA A A A A A A G A CC C A G G A A G G G G G G G A GACAGGGGGGAAAAAAAA AAAACCAAAGACGACAAAGGGGCCGGGGACAAGGACGAGAAA CCAAGGGGAAGGCAGAGATAGAAAAGAAGAGGGAGGAGACAAA
 A A GAA A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G A A C C G A A A G G G G A A G G C C A A G G$ G G G A A A G G G G G G GAAAAAA A $A \operatorname{AGGACATGGAAGAAAAGAAAAAG}$ GAGGAAGAAAAGAAACCCGAAACCAAGGAGGGAGAGGGAGGG CAGGGGGGGAGGGAAAGGGAGAGAACGGCAAGCGAAGGGGAG G GAACCGAAAGGGGAAGAGGCCAAAAACAACCCCGGAAGAAG GAAGAGTAACGGATACGGAAAAGGGGGGAAAAGGGGA
A A A A G A G A A G A A A C C G GAGGGGGGAGGAGAAAGGGGGAAA G A A G G A A G A A G A A C G G G A A GAGGAAGAAGGAAGGGAAA GAAA G G GAA A GAAAGGGGACAAAGAGAAGGGAGGGACAAAGAAGGAG G GCAGAAAAAGGCAGGGGGGAACCAAGGAAAAAGAACAAAAA A A G G A A T T A A A A G GAA $A \operatorname{GGGGAAAAAAGGCCGGGGAGCAAGAA}$ A A G A G A A G G G A G G G G G A G A G A G A C G A G G G G A G GA G GA G A C G G A A T T G G GAA A G GAA A A A A A GA G GAGGGGGGAACCAAAGCCGA A G G G C C G A G G G A C A G G A G G A C A G G G A A G A C C C G A A G G G G A A A GAAAGGGAGGGAAAGGGGAGAAGGGGGGAAGGGGGGCCBAAA G GCAA C G A A G A A G G G G A A G G G G C A A GAAAACCCC G GAA G GAA $A G G A G G A G G G A G A G G G A A A A A A G G A A G G G G G G G A A G A A A G C G$

 $C C G G A A G G A A A A A A G A G G G G G A A A G G G G G A A A G A G A A A G A G G$

C CAAAAGGAGAGTTGGGAGGAGCAAGAGGAGGAGGGGGGGAC G GAGGGCAGGAGAGAGCAAGCCGGAAAAACAAAAAAAGGGGA GAAAGGGGGGCAAGCCGGAAGAAGGGAGGGAAAAGGAAAAGA GGCCACAGGACAGGAAGGAAAAGGACCAGGAGACAGAAAAAA A GAGAGAAGAGAGGGGAGGAGGCCGGAAGGACGGGAAAAAGA ACGGAGGGAACCAGAATTAAGAGGGGGGCCGGTAAGAAGGAG A GAGGAAAACCCAAGGAAGGAAGGAGGGGGAAAGCCGAGGGG ACACGGGAAACCGGAAGGGGCCGGGGAAGGGGGGAAAACAAA G G G G G G G G C C A A C C G G C C A A G G A G A A C C G G G G G G A G G G G G G G CACACGAGAAAAAAGGAAGGGGGGAAGGCCGAGAGGACAC G G $A$ G GAGAA $A \operatorname{A} A C C C A A G G A G A A G G G A G G G G G G A G C X A A G G G G G G$ G G G GAAAGAAGGGGAGAGGACCAAACGGAAAAGGAGAACCAG A G A G G G G A A C G G A A G G C C G G G G G G G G A A A C G G G G C C G G A G G A G G G G A A A $\mathcal{A} G G G G A C A G G G G G A A C C A G G G G G G G G G G A G G G G G G$ GAAGGGGAGAAAGGGAAAAAAAAAAAAGAAAGCCAGAAGGGG G G GAGAACAGGAGACCAAAAAAGACCGGAAAAAAA GAGAGGG C C G A G A A A A GAACC GAGAA GAGAGAAAAGGGGGGA G G G G G G A G G G A G A GAATTGGGGACGGAAGGGGCCAAGAGGAGAAAACAGG $G G A A A A G G G G A A G G A A C A G A A G A A G G A A G G G G A A A A G G A G A G$ G G A G G G A A G G G G A G G G A C G GAA A G A A A GAA A G GAC CAC G G A G A G G G GACCGGCCGGAAGGGGAAGGAGAGGAGGAAAGGGGGTA A G GAAAAGAAAAAAGAGGGGAAAGGAAGGAAAGA GAAAA GAT
 A A A G G GAA A A GAGGGGGGCCAAGGCCAAGAGAGGAGAACAAA GAAAGGAAGGGGAAGGGGCCAAAAAAAAAAGGAAGGCAAAAT ACAGGGCAGGAGGAGAGAGGAAGGGGAACGAAAACCAGAGAG A G G GCAACAAGAAAAAAAGGGAGGGGGGCAAGAA GAGGTTCC A A A A A A G GCAA G GAAACCAGAGAAAAGGCCCCAACCAAGGCC A A A A G G A A A A A G A GA G G GAA G GAGAGACCCAAAA GAGGGGGG C CAGCACAAAGGAAGAAAGGGGGGAAAAAGAGGGGAGAAGGA TAAAAAAACAGAGGCGGAGGCAAGGAAACCAGCAAAAGAGAG GAGGAAGGCCGAAACCAAAAACAACCGAAGAAGGAGGGAAAG G GAGGGAAACAAAAGGAAAAAAAAGGAAGGGGAAAGAGCCCAA C GAAAGCAAAAGGAGAGACAGGACAGGGAAAAAAAAAAAACA GAAGAAGGGACCGGCCCCAGAAGGGGAGAGGAGGGAACAGAA C C G A G G G G G G C CAC GACCC G G GAAGAAGGAAACCAAAGAAAA AAAAAAAAAGGGAAGGACACCCAAGAGGAAGGGGAAAAAAGG A G GAGGGGAGAGGGGAGGATGGGGGGCAAAAAAAGAAAAACC GAGGAAAGAGGGAATTAAAAAAGGAAAACCAGGGCCAACAAA C C G G A A G G G A A A G G A G A A A GAGCGGGGGCATAAACAGACC G G GACAAAAGGGGAAGGGAAGGGGGGGGGGACAAGAAAGAAGGA G GAGAGAGGGAGGAAGCGGGAAAACCGGGGACGGAACAAAAA C C A A G GACCC G G G G A A A C G G G G G G A G G G A G G C G G G G G A A G G G GAGGAAGGAGAGGCGGGGGGAAGGGGAACCAAGGGGCCGGGG G GAAGACAAAGGGGCCAAGGGGAATAAAACAGCAAAAAAAGG G GAAGGGGCCAGGACACACCAAGAAAGGAAGGGGGAAACCAC
 AAGGAAGGGGAACCAGAGACCCGGGAAGACGGGAAAAAAAGG AAGGCCGGAACCGGGGAAAACCGGGGAGGCAGAAGAACTAGA
 G G G GCCAACCAGAAGGAAGGAAGGGGAAAAAGGGGAGAGGAC G G A A A A A G A A A A GAGGCAAAAAACGGAGGAATCCAAAAGGCC
 AAAAAACCGGGAAAAGGGGAAAAAGGAGACAGAAGGGAAAGG A A A A G A A A G G A G G G G G G G A A G A A A CAGGGGGGGGA GAAAA GA G G G G A A A GCCAAAACCAAAAAAACCCGGCCGAAGAAGAAAGBG G GAA A A G G GACCACAAAGGAAGAGAACAAAGGGAGGGGAGGG
 G GAAGGAAAAGGAGGGAAAGGGACGGGGGACCAGGACCAAGA
 A A A C A G G G A A A A A A A A G GAA $A \operatorname{GAAAGGAACCGGAAAAGGCCGG}$ AAGGCCAACCGGAAAAGGGGAAGGAACCAAAAAAAAAATTGG G GAAAAGGAAAAAAAAAAGGAAGGAAGGGGAAAAGAAACCBG G G G GAA T TAGAAGGGGAAAAAACCCCGGAGCCAACAGGAAGG G GAA A A G G G GCCAAAGAAAAGGAAGGAAAAAAAAGAAAGGAA G G G G A A C C A A G G GA GAGAGAAGAGCGGAGACAGGAAAAGAAA AAGAGGAAGATAAGAACAAAAAAACCAAGGGGAAAACCAAGG AAAAGGGGAGGGGGACAGAAAAGGAAAGGAGGGGAACCGGGG A GAGAAAGGGAACAGAGGGGAAAAGGAACCAGAAAGTXAAGG G GAAAAGGGGGGGGAAAGAGAAACCAACAGGAGGAGACACGG G G G GAGGAAACCGGGGAAAAGAGGGGCCGGGAGAGGGGAAGA GAGAAAAAGGGAGGGGAAAAGGCAGGAACCAAAAAGGACAGB G GAAGGGGAAGGAAAAGGAGGGGAAAAAAAAAAAGGAAACAA G G GAAATTAAAGGAGGAAGGAAAAAGAAAAGGAAAAAAAGAA AAGGGGGGGGAACCAGAAAGCAGAGGAAAAAAGGGGAAACGG G G G GAGGGGAAAGGAAGGGAAACGAACCGAAAAAAAAAACAC $C \subset G G C C G G A A A A G G G G T T G A A A A A A A G G G G C C G G A G C C G G G G$ G G GACCAAGGGGGGGGAACAGAAAGAGGAGACGAAGAACGGA A A A A A A A A G G A A C C GAGGAAGGAAAAAGGAAAAAAGGAAA G G G G G GCCGGGAGAGCAAGGGGGGAAAGGACCGGGGAAGGAAAG G G G GCAAGCAGGAAGAGAAGAGACCCAAAACCAAGAGAAAAG AACCGGGACCGGACCCGGGGGGAAAGGGACCCCCAGGGACAG A GAGAAACAAAAAGGAGAAAAAGGAGAGAAAAGGGAAAGGGG
 A A GA $\operatorname{A} G C A G A A G A G G G A A C G A G G G G G G A G G A A A A G G G G A A A G$ GAGGGAAAAACCAAAAGAGGGGGGCCGGAAGGAAAAGAGGAG G G G G G A A G G A A A A A C C G G G G G A GAGAGAGGAGGGGAAAA A A A G GAA A GACAAGGGGCAAAAAGGAGGGAAAGGAAGAGGAAAAA G G G G G GCC G G A A G G A A G GAGGAAGGGGGGGCAGAAA A A CACA G G G A A A G A A A G A C A G A G A A GAGGTTAGGGGGGGAAGGCCA GA G GAAAAGCCGGAAAACCCCGGAACCGGGGAAAAGGGGAAGAAA GAAGACGGGACAAGGGGGGAGGAGCCAAAAGAGAAAAAGAGA AACAAAGGGGGGGGCAAAGGGGGGGGAAAAAAGGCCGAAACC T T G G G G C A G G G A A A G G G C G GACAAAAAGGCCAAAACCGGGGCC G G G G G G A A A C G G A A A G A A A GAAA A A A A A A C CAAAAC CAA G G G A G G G GCCGGAAAGGGGGAGAGAACAGGCCAAGGAGAGGGAAGG C C A A G GAAAAGGAGGAGGCAAAAAAAGGGGCAAAAAAAGAAA ACGGGGAAGGAAAACCGGGGGGAAAGCAGGAAAAAAAAGGAA A A G G G GAA A G G GAAAAAAGAAAGGGACAGAAGAA GAAAAGAA GAGGAAGAAAAAGGGGGGGGAGCCAAAACAAAAAGGGGAAGAG C C G GCAAACCAAAAGGGAAGGAAGGGGGAATTGGGGCAAACA GACCAAAACCAAAAAATACACAAACCAAGGGGAAGGAAAAGA GACCAAGGAAAGGGAGAAGGGGCCCCGGCCGGAAAAAACAAA GACCAACCAAAAAAGGGGCCCCGAGGCCGGGACCGGA
GAA A G A A A GACCA $\mathcal{A} A A A A A A G G G G G G G G A G G G A A A A G G A A G G$ G G G G G G G G A G G A G G G GCCA $\mathcal{A} A C A G G G A G G A G G A A G G A A A A G G$ $A C C A C A G A G A G G G G G G A C A A G G G G C C A G A G G G G G A A A G C C G G$ AAAAAAAAGAGCGGAAAGAGAGACAAGGAGAAAGGACACCCC
 $C \subset G G G G C C G G G G A A A A A A G G G G A C G G G A G G G G G G C A G G A A G G$ AA $A G G G A A G G C A A A G A A A G G C C G G G A C C A G G G A A A G G A A A A C$ GAAC $A \operatorname{A} A G G C A A A G A A A G G G G A G G G G G G G G G A G G A A A G A A A C C$ ACGGGAGGCCGGCCAGGGCCGGAACAGAGAACGAGGGAGAAG GAGGACAAAAGGAAGGAAAAGAGGAAGGGGGAAAAGAGAAAA A A G G A A G G A A A A T T A A A A A A GAGGAAGAAGGGGGAAAAAA G G A A A C G G G G A G A A A A G G A A G G A A A A G GAACCTTAACCAAAACC
 G G G G G GCCGGAACCAAGGGGAAGGAAGGGGAAAAGGGGAAAA

G G G GCCGGGGAAAAAAAAAAGGAAAACCGGCCAAAAAAAAAA CCGGCCGGGGAAGGAAAAAACCGGAAGGCCAAAAGGGGAGAA $G G A A A A A A A A G G A A G G C C G G A A G G G G A A G G G G A A G G G G A A G A$ A A G G G G G G A A G G G G G G A A A A G G G G G GAA A GAAGGGGAACAAA G G T T G G G GAA G GAAAAAAGAAAAAAGAGAAAAAA GAAGAAGG GAAGGAAAGGGGAAAGAAGACCGACAGGGGAAAAGGGGAAAA A A A G G G G G A A A G G A G G A A T T G G A A G G C G G G A A G G A A C C G G G G AAGGAGACGGGAGAGGGAACGACGAGGAAGCCGGCCAAGGAA G G G G A A A G G G A A C C A A A GA $A \operatorname{GGGGGGGAAGAAAAAGGAAAAAA}$ G G G G G GAGGGGGAAGGAAAACCGGGGAGAGGGAGGGAAAAGA A G G G GAAAAAAAACAGAAAAAAGGCCGGAAAAAGGGGGAAAA G G G G G G A G G A G G A G G G G G G G A A G G G G A A A G C C G A A G G G G A A $A G G G G G G G A G A G A G G G A A A A G G G G A A G G G A C A G A A A C A A A G G$ G G G A G G T T G GAGC CAAAAGAGAGGAGAGCCAAAGGAGAAAAA A G G GAACAGGAGAACACAGAAAAAAAAAGGAAAAGCGGAGAA $C \subset G G G C G G G G G G A A A G A G G G A A G G G A G G A A G G C C C C A A G A C C$ C C G G G G G G G G G G G G A G G A A A G A G A A A A A A G GA G G C C G G C C C C G G GACCGGGGCCCCGGGGGGAAAAGGGGGGAAGGAGGGCAAA $G G G G A A G G A G G G A A A A G A G G G G A G A A G G G A A G A C C A A G A G G G$ GAAGCCAAGGGAGGCCGGGGAAAAAAGGAAAACCAAAAAAAA $C \subset A G C C A A C C A A C C G G A A A A A A A G C C G A A A G A G G A A G G G G G G$
 AAAGGGAAGAAAGGGGGGAGGAAAGGAAAAAAAGGGGAAACC G G G G A A G G A A G G G G A A A A C C G G A A G G G G A G GA G G A A A A G G C A A A G G G A G G G G C C A A G G G G A GA G C A G G C C G GAC G GAA A G G G A A A A A A G G G G G G G G A A A G T T G G A A G G A A A A A A A GAAA A G G T T G G AAAAGGGGAATTAGCCGGCCGAAAGGAACCGGGGGGATACGG A A A A A A A A GAGAGGAGAAGGGGAAGAGGAAAAGAAAAA GAAA G GAGGAAAAGGGCCAGAGGGAAAGAGGGGGGGAAGAGACABA GACGGGGAAGGCGGAAAAGGCCGGGGGGGGGGAAAAAAAGAT GAGGAGAGAAGGAAGGACGAAGCCCCAGAGAAAAGGGGAAAG AACCAGCAAGGGACAAGGAACCGGGGGGAGAAAGCCGGAGGG G GAA A A G GAGACGCGGGGACAAAAGGGAGGGAAGAAGAAACC C C C A C G G A G G G A C C A A G GA G G G G G A A A G A G A A A G A A A G G G G A GAGAAGGAAGAACCGGCCGGGGGGGGAAAAGGCACACAAACC C C G G GAGAGAAAGGCGAGAAAAAAGGCAAGGAGAGAAGGGCA AAGAGAAGGGCCCCGGAGAGAAGGGGAAGGGGAAAACCAAGA A GAGAGGAGGGGAGGGAGAGGGGCGGAGGGGGCCAGCAAAAA G G A A A A G G A A A A G G A A G G G G A GAGCC GAA $A$ A A A G G C C A G A G G G A A G G A A GAGGAAGAGGCCAGGAGACCAGAGCCGGGAGAAAGG GGGAGAAAGAAGGGAACCGAAAAAGAAACCGAGGCCGGACGA A A G G G GAAAAAAAAAGACGGGGAAAAAAGGGGGGGGAACCAA A A A A A A A G G G GAGGAGAATAGAAAGGGGAAAAAGGAAAGAAA G G G G A A G G A A A A A A CAAACCGAGAAAGGAAGGAAAAGACACC

 CAAAAGAGGAAGGAGAGATTGGAGAAAAAAAAAAGAAAAAGG G GAAAACCAAGGCCGAGGAAAAAGCCCCGGCCCAGGAAGAGA G GAGCAAAGGGAGGAGAGGGGGAAAACCGGAAGGGAGAAGAA A A A A G ACAAAAAGGAAAAAAGGCCAACGGGGGAGGACCAAGB G G G G A A A A A A A GAGTAAAGAGAAAATAAACAACCGGCAAAGG A G G G TAC CA $\operatorname{C}$ G GAAAGAAAGGGGGGCGAGAGAAAGGAAAACTT GAAAGAGGAAGAGAGGTAAGAACAAGGGAAGACCAAAABAAG G GAGACGGAAGGGGAGAGCCGGGAGGAAAAGGAAAGAAAGAA GAGGAAGGGGCAAGGAGGAGAAAACAAGAGAAGAGGGGAAGG
 GAAGGGCCGAGGAGAAAGGGAGAGAAGAAAAAAAGAAAAA G G $A$ G G G A G G A G G GCCAAAGGCCGGAAGGAACAGGAAAAGGAAAAAA $C C G G A A T T A A G G A A A A A A G G G A G G G G G G A G A A A A A G G G A G G G$

G GAACAGAGAAAAGCCGGAGACAAGGCCAGAAAAGGCCACAG GA $A \operatorname{G} G A A G G G G G A G G A A G G A A G A A G G A C A G A G G G C G A G A G A G$ A A G G T T A A G G G G A G A G G G G A A GACCCAAAGGAAAAAACAGGA G G G G G GA A A A A A CAGAAGGAGAAGGGGGGGGAGGAGGAGAAAA A GAGGAAAAGAAAACCGGGGAAAAAAAAGGGGGCAGAAAAAA G G A A A GCCAAGAAAGAAAGAAAAGGGCCGAGAAAGAGAACAA G G A A A A G G G G A G G G G G G G A G G A G A C C G C G G G G A A G G G G A A A A GAAGGGAACCGGAAGACGAAAGGAAAGGGGGGAACACAAAAG
 ACGAGAAAAAAAAACCAAGGGGAAAAAAAAGGCCCCTTAAGG AACCAAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAAGAAAAA A A A A A A A A $\mathcal{A} G G G G G G G A A A A G A A A G A A A G G A A A A A G A A A T C C$ C C G GAGAACAACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA C GAA A G G G G GCCCC G G A A A A G G A A GAA GAA A GA G G G GAA G G G AA $\operatorname{A} G A G G A A A G A A G G G G G A A A A G G A G A G A A G G A G C C A G G G G G$ A GAGACAAAGGAGGAAGAAAGGGGAGGGAGGCATCCGGAAGA A A G GCAAACCACGGAGGGAAGGGGCCAACCAAGGGGGGAGAA A GAA $A \operatorname{GAAA} \operatorname{A} A \mathrm{~A} G A \mathrm{~A} A C A A A A A G A A G G G A A C A G G G G G A A A G G$ TTAACACAGAAAGGAAAAGGCAGAAAAGACGGGAAGAGACAG G G GAGGAGCCCAAAGGAAGGAACCGGCCAAAAGGCCAACCGG G GAAAGAGCCGAAGGAGGGGGGGACCGGGGAGAAGGGGAAAA G G G GAA A GAAGACCGGAGCAGGGGGGGAAAGGCAAGAGAGAA G GCCAGGGAAAAAAGGAAGGGGGGGGAGAGAAGAAGGGGGGG
 AAAAAGACGGAAAAGGCCAGAAGGAAAAGACCAAGGAACAAA
 C C G GAAAAAAAACCAAGGGGAGGGCCAAAGAGAAGAGGGGGG A A A A A A A $\mathcal{A} G G G A C G G G G A A G G G G G G G G G G G G G A A A G G A G G G A$ A G G GAA A GAGAAAGAAGGAACAAGGGGACAAAAAAAAGAAGG $G G A A C G A G G A A T C C G A A A G G G G G A G A G G A A G G A A G A G G A G A A$ G G G A G A G G A G C C C A G A C A G G G G A A G G G A G G C A A G A A G G A A A G GAAGGAAGAGAGGGCAAAGACAAGAAGAGGAAAAGGGGGAAA A ATAAACCAAAAAGCCTTCCAGCCAAAAAAAGGGAACAGGAA G G A A A C G A TAA $A \operatorname{GGGGGGGGAAAAAAACCGGGGGAGGAAGGGA}$ $A G G G A A A G G A G G G G A G G A A A A A G G G G G G G A A G G G G A A A G A C A$ G G G GAGGGAAAAAAAGCCAAAGGGAATAAAAGGAGAGAAGAC G GAGGACGAAGGAAAAGGAGGGAGAAAAGGGGGGGGGAAGAG G GAAAAAAGGAAGGAGACGGCCGGGGGAAGACGAGCAGAGAA A GAAA $A \operatorname{Ag} \operatorname{A} A A A G G G A A C A A A C A A G A G G A G A G G G G G G A A A G G G$ G G G G G G A C G G A G G A G A A G G G G G G G C C C C G G A G A G G G G A G G G A GAAAGGCAAACCGGAAAACCAGGGCCGGAGAAAAGGGGAAAG GAGGGGGAGGGGCCACCCAAAAAAAAAACCGAAGGGAACAAA A A G GAAGGAAAAGGAAAAGGCCGGAAAAAGCCAAAAGGGGAA G G G G A A A A G G A A A A G GAGGGCGCCAAAAAAGGAAGGCCAAAA A A C A G G G G G A G G G G A C A GAGGAAAAGGGGGAAGGGGA
G G G A G G G G G G G A A A $A$ A $A G G A A A G G G A G A G A G A G A G G A G A G G$ A GAG $A$ GA $A \operatorname{A} A A G G G A A A G G T T A A G A A G G G G G G G A A A A A A G G G G$ G G G G GA $\operatorname{l}$ GACAACCACGAAAGGGGAGGACCGGGGAGAAGAGG G GAACCAAGGAAAGAAAAGGGAGAAAGGGGCCGGAACAAGAA AAAAGGGGAAGGGACCAGACGGAAGGAAAAGAGAGAAGAAAG GAGGGGAAAAGGAGAGAAACGAAAAGACGAAAGGAAGGAGAG AACCAAAAAACAGGGGGGGGGAAAAAAAAAGGGGGGGGTAGAG G G G A A A G G CAA $A$ A $A \operatorname{A} A G G A G G A G A A A A A G A A A A A C A G A A A A G G$ G G GAGAACAGAAGAGAGAGAGGGGGGCCAGGGAGAGAGAAGA A A G G A A A A GAAAA A A A GAACACGGGGGGGGGGGGACAAA GAC A A A A G G G G A A G A A A A G A A G GAAAGGGAGAGAGGGGAAA G GAA GAAGAAAACATTGAAGAGAAGGATGGGGGGCCGGGGGGCCAA G G A A A A G G A A G G G G G G G G A A A A A A G GAAAAA A G A A A C CA A A G G G G GAAGGGGGGAAGAGGGAGGAAAGAAGGAAGGAAAACAAA

CCGGGACCGAAGAGAAAGAGCCAAAAAAAAAAGGGGCCGGGG A G G A G A G A A G A A G A A G G G A G A A A G A G A G G G A GCC G G T T A A G G G G G G A GA $\operatorname{l}$ A $A \operatorname{GAAAAAAAAAAAAAGGGGGGGGGGAGAAGAAAAG}$ $C \subset A A C C A A A G A A A G A A G G A A G G A G A A T A G G G G T T A A A A G A G G$ G G G G G GAAAAAAACGGAAGGGAGAGAGGGGGGAACCCAAAGG A A A A G G G A C A A GAACAAGGAGGAAAACCGGGGAAAAAAAAAA
 A G G GAAGGGGAAGGAAGGCCCCGAATAGGAGGAAAGGGAAAA A A G A C A G G G G C C G G A A A A G G A A A A G G C C A A G G A A A A A A A A A A AAAAAAGGGGGGGGAAGGGGAAGGGAGAAGAAAAAAGAAAGG G G G GAACCGGGGAGAGGGAGGAAAAGGAAAAAGGGGACAABA
 A A A G G A G G A A GAGGGAAGACAAGGGGACAGAGAACCGBCAAA $G G A G A G G G G G A A A A G G G G G G C G G G C C A G G G A G G A A G G G A G A A$ G GAGGAGGGGGGAGGAAAAGAAGGGGAACCAAGGGGAAGAAA G GACGAGAAGCAGGAAAAAAAAGGAAAGAAGAGGAGAAAAAA AAAAGGAAGACCAACCGGAGGGCCAAGAGAAAAAAAAAAAAA G GCCGGGGAACCAAAAGGGAAAGGGAAGGGAAAGAAGACGAG CAGAAGAGAGCAGGCCAAAAGGCCCAAAAGGGGAAGGAAAGG A A A A A A A A A A CCGGAGAAGAAAAAAAGGAAGAAACCGGAGGA C C A A A A A A G G G G G A G G A G C C G G G G G G G A A G A A C C G G G G G G A A G G G G G G G G G G A A A A A A A A A A G G C C A A G G G G G G G G G G A A A A A C G G G G A A G A GAGGAGAAAAGGAAAAAAGGAGAAGGGGAAAAAA

 AAAACCAAGGGAAGGAGGAAACCCAAAAAAGGGGGGGGGGCA AA $A G A A G G A A A G A G G A A G A A G A G G G G A A A G C A G A C A G G A A A A$ A GAGGACCCGGAGAAGAAGAAGAGCCGAGACCAGAGAGCCGG GAGAAAAGAGAAAAAAAGCCGGGGCAAAAGAGACCCAAAAAA GAAAAAAAAACCGAACAAAGAGACGACCAGAAAAAGGGGGGG A A G G A GCCACAAGGCAGAAGAAAGGAAGAGGGAAAAGGAGAG G G GAAGAAAAGAAAGAGAGAGGGGGGCCAGGGAGGGCCAAAG GAA A G A A G GAGGGGGGAAAAGGAGAGCCGAAGGAAGAAGGAG A A G GAGCAAACAAGAAAAGGGGAAAAAAGGAAAAGGGGAACA GAAAAAAAGGAAATAAGGAACCCCAAAGGAGAGAAAGAGGGA AAAGGGGAGAAGCGAGCCAGAAAAGGAAAACACCGAAGCAGG G GCCAGAACAAAAAAAGGAAAAGGGGAAGAAATTAAAAAAAA A A G G G A A GAGGGGAGAGGGGGGGGGGACAAAGACGAAAAAAA
 GACCAAAAGGAAAAAAAATTCCCCGGAGGAAGGAACTTGGGG $G G A A G G A A A A A A A A A G G A C C G A G G G A G G G G G A G A G A G A G A C A$ G G G A A A G G G G A A G G G G A A G G C C G G G G G A A C GAA A A GAAACAC AACAAAAGAAGGAAGGAAAAAAAACCAAGGAAAAAACCACAA AA $A G A A G G A A G G G A G A A C A A A G A A G G G C A G C A A G G G A A A A G G$ G G G G G G G G G G A A C C A A G G C C G G G G A A C C G GAAAACCCAAAAA $G G C C A A G G A A A A G G A A A A A A G G G G G G G G C C G G A A A A A A G G A A$ A A A A G G A A A A G G G G CC CGGAAAAAAAAAAGGAACCAAAAGGCC A A G G G G G G T T G G G G A A G G G G C C G G A A G G G G A A G G A A A A A A A A G G G GCCGGAAGGCAGGGGGGAAAAGAAAGAGAAAAACACAAA G G G G A A A $\mathcal{A} G G G G C A G G G G G A A A A A A A A A A G G G A A A A G A A G C C$ AAGGCCAGAGGACCCAGGGAGAAAAGGGAGAAAAGAAAGGAG GAGAGAGGAGACAAGAAGGAAAGGAGGAGAAGGGGGAAAAAA
 AAAAAACAAGGACCACAAAACAGAAGGGGGTAGGAACCGGGG AAAACCGGAAGGGAAGAAAGAAAAAGGGAGAGAGBAGAAAAG A GAGGGGGAAAAAGATGGGGACGGAAGGGGGGAAGGGGAAGA A A A G A G G A A GCCGACCGGAAGGAGGGCCAAAAGGAGGATTGA G G GAGGAGAACAAAAAAAAAGGGGAACAAGCCAAGGGGGGCA $A G A A G G G G C C A A A G C C G G G A A G A G A A T A G G G G A A G G G A A A A A$

GAGGGGAAGACATTAAGAAGAGGAAGAGGAGGAAAGAGAAGG AACCAGGGGAACACAAAAAAAAAAAAGAACGGGGGAAAGGGG A A GA $\operatorname{A}$ GAAAGGACAAGGAAAAGAGACGGAAAAGGGGGAAAAA GAGGGGAGCAAAAGGGGGAAAAGGAAAGAGGGAAAGGAAAAA GGCCAAAAGAAGGGAAAAATGGGGGAGGGGAAGGGAGAAAGA

 GGCCGGAGAAAGCAAACCGGAAGAGAAACCGGAGGGACAGAG GAGAGAACAAAGCGAAGGCCGGACGGCCGGGGAAGGGGAAAG AAACGAGAAAGGAAAAAGGGAAAAAAGGGGAAAAGGGAGAGG G GAA A GAA $A \operatorname{AGG} \operatorname{A} A C G G A A A A G G G G G G C C A G A A G G A A A G A A A G$ TA G GAACAGGCAAGGAAGGGGAAAAGCCACGGAAAGAACACC A A A A A A G G GAA A G G G G A A A A G GAGCCAAGGAAGACAGAAAAA AACCAAGAAAGAAAAAACACAGGGCCGGAAAAAAGGAAGGAA ACAAGGAGGGAAGGGGAAGAAGAAGAAGAAAGGGAAACAGAA G G GAGGAACCAAGAGGGAAAAACAAGGGAAGGCCAAGGGGAA G G G G G GA G A A G GAA $A \operatorname{A} G A A A A G G G G A A G G G G A A C C A G A C A A G G$ A G G G A A A G A A A GCCAGGAGAAAGGAACCGGAAAGAGGACAAG $G G A C A A A G G A A A C A G G A C G G A A C C G A A A G G G G G A G G C C A A A A$
 AAGGGAAAGAGGAGGGAAGGCAAAAGGAAGAGAGGGGGAAAG AGGAAACCCCAAACGGAAGGTAGGACAAAAAAAAGGAAAAAA AACCGGAGAAAAAAGGAAGGCCCCAGACAAAAGAAAGGGGGG G G A A A A G G GAAACCCCGGACAGAGAAAGAAAGGGGGCCAGGG A A G A C C C A CA G G G G A A A A C CAAAAGGGACCCCGGAGAGAAAA G G G GAC G G A A G GAAAAAGCCGGGAAGAAACGGAAGGAGAAGA
 G GAA A GACAAGGAAGGCCGGAGGGGGGAGGGGAAAAAAGAAA C C G G G GAA $A \operatorname{GAACCGGAAGGAACCCCGAAGGGGGCCCAAAAA}$ AAAAGGCAAAGAACGGGAAGGGAGAGGGGGAAGGGGAAGGGA G G G G G G G G G G G G A A A A GACACAAGGGGGAAGGGGAGAAAAAA G G GAA A A GAGGAGAAAGGAGAGAAAGGAAGAAGGGAGAAAGA A A G G G A GAGAGAGGCCAGAAGGGAAGAAGAAAGGGGGGAGGG A G G G G G G G A G G G G A G G A G G G A A A G A A G G A A A A $\mathcal{A} A G G G G G G A A$ G GAGAGAGGGGACAGAAAACAGAAGGAAGGACGGGGAACCAG G G C C A G A A G G A A G G C C A A G G G G A A G G A A C C G G G G A G A G A G A G C C A GAA A A A A GAGGGGGGGAGGACGGCCAAAAAAAGAGAAGG AGGGAAGAGACCACACAGCCCACCGAGGAACAAAGGAAAAGG G G A A G G G G A A G G A A A A A A GACAGGAAAAATGAGGAAA GAGAG A GAGAGGAGGAAAACCAAAAGGGACAGGGGGGAABAACAAGB G GAGAAAGACAGAGGGGGGGAGCCAGGGCCCAGGAGAAAAAA CAAAGACCACACCACAGAAACCAGGAAGAAAAAAGGGGAGAA A A G G G GCCGGGGAACCGGAGAGAAGGAAAAGGGGGGCCAAGA C CAAAAGGAACCCCAGAAGGAAGGGGCCGAAACAGGAAAAGG GAAGAGGGAGGAGGCCGGAACAAGGGGAAAAACAAGG
$G C C A G C C G G A A G G G G G G A A A A G G C C A A C C A G G G A G A A A A G G$ GACAAACCGGAAAAAAGGGGGGAAAAGAAGAGGA GACAGGGG G GAC C G A A A A A A A A G G G G G A A A G G G A G G G G A A G G C C A A A A $G A$ A GAGGGGAAAGGACGGAAAGGAGAGGGAGGAAGAAACAGAGA A GAGAGGGGGGGAAAAGGGGAAAACCAAAGAAAGGGCABACC C C G G A A C C G G G GA T G G G A G GAAAAGAAAGGGGGGACAAAC GA G G G G G A A G A A G GAA A GAGGAAGGGGGGAGAGAGGCCAAACAA
 G G G G G GAAAAGGAGAGAGAAAGGAGGGAAAGGGAAGGGGAAA AAGGGGAAGAAGAAGGAAAAAAAAAAGGCCGGAAGGGAAAAG ACAGAGGGAAGAAAGAAAGGAGAGCAGAACACAAAAAAAAGBG A G A A G G G G A A C C A GAGAGGGGACCCCGAGGGGGGAGGGAAAA $A G C A G G A G G G G G A A G G A C G A G A A G A G A C G G A G G A A A A A G A A A$ $G G G A A G A A A A A A A G G G G A G G A A A A G G A A C C G G G G A A G G G G C C$
$G G C C A A A A G G A G G G G A G G A G G A G G A A A A G G A A C C G A G G G G A A$ G GCCGGGGGGAAGAAAAAAAAAAAACAAGGAAAGCAAGAGAG G G A A A A G A A A A A A GAACCAGAAGGAAGGCCGGAACCAAAGAC A G GAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACABA GAA A A G G G A A G G G GAA $A \operatorname{AGGGCA} G G A C A A G G A A A A G G A C G G A G$ C C G A A A A A G G G G G A A A GAGAGCA $\mathcal{A} G A G A G A A G A A A A G G G G G G$ C C G G G G G G A A C C A A G G GAAA A G A A G G G GAA A G G GA G G G GAA A A A G G GAG $\operatorname{A} G \mathrm{G} C \mathrm{C} C \mathrm{G} G \mathrm{G} G A A A A A G G G G A G G A G G G C A A G G G A A G A$ G G G G G G G G A A G A A G G G A G G A A G G A G A G A G A G A G A A A G G G G A A
 G GAAAATTAAAAAATTGGAAGGAAAAGGAAAAAAGGAAAAGG AAGGAACCGGCCGGAGGGAAGGAAAACCAAAAAACCAACAAA CCGGAAGGAAAAGGAAAAAAAAAAGGGGGGAAAACAAAGAAA C CAAAAAAAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA AAGGAAAAAAGGGGAAGGAAGGGGCCCCAAGGTTGAAAAAGG G GAAAGGGAAGGAAGGGACCAGAAAGACGGGAAAAAGAAAAG A GAA $A \operatorname{GA} A A A A A G G A G G G A G A A A A A G C G C C A G A A G G A A A A G G$ A A A A C C G A A A A A A GA GAGTTAAAGAGAAATAGCCAAAAGGGG AAAAGGGACCAAGGGAAAAGGGACAAGAGGGGGAGAAGAAGG GAAAGGGGGGCAGAGGAAACGAAAGGAGAACGATCCGAAGAG GAGAGGGGAAGGAAGGGGGAAAAGAGAGAAAGAACCAGBACA G GCAAGGGAACCAAAGAGAAGGAAGGGGAAAAGGCCATAAAA $G G C C A A A A G G G A C C A G A A G G G A A G G G G G G A A C A A A A G A A A G G$ A A C C G G G G G G G A G G A A A G G C G A G G A A G G G A G A G A A A A G G G G A $G G C C C A A G G A A A A A G G G G G G A A G G A A G G C C G G A A A G C C A G A A$ A G G G G G C A G G G GA $A$ A A A A $A \operatorname{GAA} A G G A G G G G A A G A G G G G A A A G A$
 AAAAAAAACCCCAAAGGGAGAGAGAAAAGGAAGGAAAAAGAA G G G G A A C C G G A G G G A G G G G G A G A G A G G A A G A A G G G GAC G A G G A G G GACGGAGAAGGAAGGCCAAGAAAGGGGGGGGAAGGAAAA G GAAGGGAAGCCGAAGAAACAAACGGGGAAAAGGAAAAGACA $A C C A C C A G A G G G G A G A C A G A C A G G G G A A C C A A A A A A G G G G A A$ G G G GAA A A A A A GCC G GAACCGGGAAAGGGGACAAGGCC G GAA G G G G G G C A A G A A A A A C G A A A G G G GA G GAA A A A A A A A A G G G G G G G G G G G G A A G G A A A C G G G A GAGGAC G G A G CA A A A A G G G G A G A A
 AAGGAAAAGGCCAGAAGACAGAAGATAGAAAAGGAGGAAGAT $C \subset C \subset A A G A G G C C A A G G C A G G G G G G A A C C A A A A A A A A A A A A G G$ G G A A A A G G G G A A G A A G C C G G G G A G A A A A G G GA G G A A G A G G A A G G G G A A A G A G A G A A A A A A A A G G G A G G C C G G C C A G G G G G G G G G AAAGAGAAAGAATTCCGAAGGGAGAGGGGAGGGGAGGGAACC GAGGGGGGGGGGAAAAAAAGAGGAGGAGAAAAAAAGGACAAA AAGGAGAAGAACGAAGCAGGGAAAGAAACGGGACAGAGAAGG
 A A A A A A G G A A A A G G G G GAA A A CAAACGGGGCCAAGGGGAGAA $G G A A A A A G G A G A G A A G G G A G G G G G A C A G G A A G G A A G A A G G G G$ AAAAAGAGGAACAGAGGGGAGGGGGGAGAAGGAAGAAAAAGA C CAAA A A GAA $A \operatorname{A} \operatorname{A} A A G G A A G G C C A G A A G G G G G G A G G G G G A A A A$ AAAGAAAAGGGGAAAACAAGGGAAGGGAGGGAAGAGAAAGAA A A G G A A G G A A A G A A GAT T G G G G A A A G G G G G G A G G A A G G A G G G A A C C A A G G G G G G C C G G G GAGGAAAGGAGCCAGGGCCAGAAAC C CAAAAGGGGGGGGAAAAGGAAAAGAAGGAGAGGAAGAAGAA A G G A A G G G G G G A A A A T A CAAAAAAGGCCAGCCAAAAAAAA G G $A G G G A A G G A G G G A G G G G C G G G G G G T A G G A A A A G G A A C A A A G G$ $A G G G G A A A G A G G A A G G G A A A A G A G G G A A G G A A G G A A C A A A G G$ A ACCAAAAGGGGAAACAAAGGGAGGGCCGAGAAGAGAGAGAG A GAGCCGAGGGGAAAGGAGGACAAAAAGAGGAGAAAAAGA GA GAGAAGCCGGGGGGCCAGGAAACAGAGGGATTAAAACABGAA AAAGAAAGGGAAGGGGGGGGGAAGAGACAGGGAAAACAGGAG

AAAGGAAAGAAGGAGAGGGCAAATAAGGGGAAAAAAGGAGAA A A G G G GAAA A A A A A A G GAA $A \operatorname{A} G A A G G A A A G G A C A A C A G G G G C A$ GGGGACGGCCAAAAAAGAAGACACGAAAAAAAAAGGAGAAAA AAAAAAAACCGGGGAAAGGAAGAAGGGAGAGAGGAAGAACBG
 AC G GAGGGGAAAGGCCAGGGAGAAGGGAAAAACAGGAAAGAC GAGGTAAAGGGGAGAGACGGAAAAAGAAGGCCAGGGGGAAAA GAGAGGCCAGCAAAGAACGAGGCCACACACAAACAGGGAAAG A A G G G G G G G A G A C C G G G G A A A A A A A G A A G A A A G G C A G G G G G A AGGGAGAAGGGAGAAAGGGAGAAGGGAACACAAACAAGACAA AC GAAAAAAAAGGGGGGGAAAAGGAAAAAAGGCCACGAAAAA G G G G G GCCAA G GAA A G G G A A G G A A G G C CAAA A A A G G C A G A A G G G A A A A A G A C G G G A G G G G G G T T G G A A A A A A TA $A$ A $\mathcal{A} G G G G G G A$
 AAA A A A A G G G G GAAAAAAGGCGTTAAAAAAGGAAGGGGGGGG AATTCCAACCAAAGGGGGGGAGAAGGTAGGGGAACCAAAAAG AACCAAGGAAAACAGGAGAGGAAAGGGGAAGAGGCAGAAAAAA A A A A C C A A A A A A A A A A A A G G GAAAGACCGGGGAGAAGAAAAA C CAACCAGCCGAAAAGCCAAAAAAAAGGAAGGAGAAGGCACC A A A A A A $\mathcal{A} G G G A A G A G G G G C C G G C C A G G G G G G A G A A A G G A A A G$ A GAGAAGGGAGGCCAAGGCAAAAAGGAAGGAAGGGGCCGGGG CAACGAGAGGAAGGGGGACCGAGGAAAAGGGGGGAAGGAAGA A A G G G GAGAAGGAAGGAAAAAAAAGAGGCAAAAACCCCAAAA
 A A A A A A A A A GA GAAAA A A GAAAGGAGGGAGAGAAAGGAAAA G AGAGCCGGGGAAACGGAAGAAGCCACAACCGAGGAGGGAAGAG AACGAACCGGAGGGGGGGAACCAAGACAAACCGGAAGGGGCC G G G G A G A A G A G G A G C A G G T T A G G G A G A A G G A G G G G G G C G G G A GAAGGGCCGGAAGGGGAAGGAGGAGGAGCCGGAAAAAAGGGG G G G GAAAAGGGCACAGGGGGAAAGAAGGAAGGGGCAAGAGGA A A A A A A G G A A G G G G G G G G G C A A A A C C G G G G C C G G G A G G G G C C AAACGGGAAGCCGGATAGAAAAGGGGCAAAGGAGAACCCCGG A A GAAA A GAA $A \operatorname{A} C \subset G G G A A A G G A G A A G G G G A G G G A A C C A G A A$ AAAAGGAACAGGAAGGAAGGGGGGCCGAAAAAAAGGAGCCAA A ACC G GAA A G G G G G GACACCGAGGAAGGAAGGGGAAAAAAAA A A A A G A G G A G A A G A A A A A G G G G G G CCAGCAGGGGA GAAACAA GAGAAGGGAGCAAAGGAACCAAGGAGGGAGGACAGAGGAGGG $C C G G A A A A G G A A G G G G A A G G G G G G A A A A G G G G A A G G G G T A A A$ GAAGGGAAAAGAAAAAGGGGGGCCAAACCAAAACBAABAGAG C C A A A A G G A G G GAACAGAGGAGCCGGAAAAGGAAGAAAAAAA CCGAAAAGCCGGCAAAGGAAGAACAAAAGGCAAAGGGGGGGG A A G GAATTGGGGAACACAACGGAAGGAAACGGAGAGACAAGA $C \subset A A G A G G G G A A A A A A G G A G G G G A C C A G A G C C A A A A G A G A G G$ G GAAAGGGGGGAGGAAAAAAGACCGGGGAACCGACACCAGAC $G G T A C A G G G A A G G G G G A G G A G G A A G A G G A G G A A A G G C$
A A A A A G G A A G A A A G G G A G G G G A A G G G G A A A GAGAAAAA A A $\mathcal{A}$ A G G G G G G G A CACAAAACAGAAGGGGGAGGGGGGGATGATAAA C C G G A G G G A A A A A A G G G G C C G G G G G G G A G G G G A G G G A A A A A A G GCAGGACAAAGGGGGGAGGAAGGGACAGACCAGACGAGGGG A ACCGGAGAAAGGAAAGAAGGACCAGTAGGGAGGAAGGAAGA A A G G A A A G A A G G G A A A G GAAAGGGAAAAAAGAAA G GA AAA GAA CAGGGGAGAAACGAAAAGTAAAGGAAAAAAAGAGCCGGGAGG G A A G A A A A G A C C A C G A G A A A G G A G A A A A G GAAAACCC CA GAA GAAAAGAGAAGAAACCAAGGAAGAAATAAAGGGAGGCCAGAC AAAGGGGGAAAAGGAACACAGGGGAAAGGAAAGGAAAAAAAA G GCCGGAAAGGAAAGGAGGGGGAGAAGGAAGGAAGGGAAAAG A A A A A A A A G G G A A GAAAAAAAGCCGGCCGACCAAGGAAAAAA $G G C C G A A G G A G A A G G G A A G G G G G A A G C C G A T A G A G G G G A A G A$ $A G A C A A A A A A A A G G G G A A A A C C G G G G A A G G A A G G A A G G G G G G$

G G G G G G A A A A A A A A G GAAAAGGGGAAAAAAGGGGGGAAGAAA GGCCCCAATTAACCCCAACCGGGGAAAAAAAAAAGEAAGGAG CAAGCCAAAAGGAAAAGGAGGGAACCAGCAAGATCCGGAAAA A GCCCCAAAACCGGGGGGGAGGGGCCGAAAGGGGCCGAAAAG G G G GAA A GAAGGAAGGGGAGCCGGAAGGGAGGCCAAAAAAGG G GCCCCTAGGAAAGGGGAAACCGAGGCAAAGGGGGGAAAAAG A G G A A A A A G G G G G G A A G G G G A A G G G A A G G G A A G A A A G G G G G G CCGGGGGGAAAAGGAAAAGGAAAAAGAAGGAAAGGGAAAAAG G G A A G G G G G G G G C A G G C C G GA G G G A C C C A G G G G G A A G G G A C A AGGGAAAAGGGGAAGGCCAACCGGGGGAAAAAACGACAAAGA
 AAGGAACCGACAGAAGCCGGGGGGAAGAAAGGGACAGGGGAC GACCAAAAAAAAAGCAGAAAGAAGGAGAAGGAGAAAGGGGGG

 G GAGGAACGACAAGAGAAGAGAAGCAGGGAGATTAGACAGGG C C G A G G G A A A GAGGAAATGAGGCCGGAGAACAAGGAAAGGGA GAGGGACCAAAAGGAAAACCACGAGAGAAGAAAGGGGGAAGAA G G A A A A G A A A GAGGCAAGCCGAGACAAAAGGGCAGAGAAGAG G GAA A G G GCCGGAGGGGGAAAAAAAAAAAAACGGGAAGAGAG G GAGAGGGAAGGAAAAGAAGAGGAAAAAGAAGAGAGAGGAGA A GACATAGAGAGGAACGAGGAGAAAGGAGAAAGGGGCCGGGA A GAGAAAAAGGGAAAAGGAGGGAAAAGGAACGCCAAAGACCC A A G G A A A A G G A A A G C C G A G G CAA $A C C C G G A A A A G G A G A A G G C C$ G G G G G G G G A A A GAA A GAA $A \operatorname{A} G A A C C A A A A G G C C G G C G G A G A A$ G G G G A A A A A A G G G A G G GAGGAGCAGGAGGAGGGAA GA GA GAA ACGAGGGGGAAAGAGGCCCAGAAAGGAAGGAAAA GAAAAGAG GAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACC G G G G G G G A G G A A A G C A A GAAGGAAAGAGGGGGAAACAAAAA G GAAGGAAAGGAAAAGGAAACAGACAGAGGGGGACGAAGACAG G G GAGACCGGGGAAAAGGAAGAGGAAAAGGAGGAGACCAGAG GGAACAAGGACCGGGGGGCAAGGGGGCCGGAACCAAGGAAGA AAAAAACCGGAAGGAGACACAGAACCCAACAAGGGGAGAGAA A GAAACAAAAGAGGGAAGGGGGCCGGCCAGGGGGCCGGAAGG $A G G G G G A G G G A G G A G A C C A T A G A A G G C C A A G G G G G G G A A A G B$ C GAGGGGACGAACCAAGGGAGGGGGGCCGGAAGGGGGGAAAA G GAAGGAAAAGGGGGGAAAAAGGAAACACAAGAAAAAGEAGG AAAAAAGGAGAGGAGAACAGAGTAGAGAGGAAGAGAGGAGAA A A A A G GCCAAGGAGAAGGGGGGAGAGAGAAGACCAGAAGGAG G G GAA $A \subset C C C G G A G A A A G C A A A G G G G G G G A A G G A A G G A A A G G$ G GAAAGGAAGGAAAAAGGCCACGGAACCGGGGAAGGGGAAAG

 A G GAACAGAAGAGAGAAGGGCAGAGGAAGGAGCACAAGAGAA GAGGGGGAACGAGGACGGGGAAAAAAAAGGAAAAGGAAGGAG G G G A A A G G G GAAAGCCCAGAAGAAGGAAAAAAAAGGAAGGAA AAGGGGGGGAGGAAGGCAAACAGGCCGGGGGGAAGGGGAAGA A GAGAAAAAGGCGAAGAGAGGGAAGGAGAAGGGGGGAAAAAA G G GAAA A A G G G GAACCAAAAGGAAAAAAGAAGAGAAAA G GAAA $A C G A C C A A G G A C G G C C G G A T G G G G A G G G A G A A A A G G G G A G G G$ G GAA A G G G G GAA $A \operatorname{GAAAAAAAAAAAAAAAGGAAGGGGAAGAAA}$ G G G G A A A A A A G GAA A G G G G GACCCCCAAGGAAGGAAGGAA G G A A A GAA A G G G A A G A GAA A GAAAAAAGGGGAAGGAACCGGAGAA G G G GAGACGGGGGGAGGGGAAGAAGGGAGACAAGCAAAGAAC
 A A A A G G G G G G G GAGGAGACCAAGGGGGGAACCGGAAAAAAGG G G GAAAAAAGAAACAAGAAACCGAGAAAGACAAACAGBAGAA A G G A A C GAGAA G G GAGAAAAAAAACCGAAAGGGAAGGACA GA $A A G G G A A G C A A A G G G A T A G G A A G G G G A G G G G G G G G G G G G G A A$

G GAAGGGGAAGGGGGGAAAAAGAAAACCAAGGGGGAAAGGGA A A A A A A A A A A A A A A A A A A A A G G G G GAAAGGGAGGGAA GA GA A $G G A A A G A A G G G A A A G G A A C C C A A A A A A A A A C C G G A A G G A A A G$ A GCCAAAAGGGGCCAAGAGGCAGGAAAGAAAAGAGGAAAAAA G GAGGGAAAGGGAAAAGGGAAGGAAAGGGAGAAAACAGGGGG G GAAGAAGAACCGGCCAAAAAGGGGGAAGAAGCGCAGAAAAA A G G G A A A A A A G GAA A A G G G GAA $A$ G T T G G G G A A A A A A C C C C A A G GAAAAGGGGCCGGCCAAAAAAAAAAAAGGAAGGGAAAGGGG G GAA $A \operatorname{G} A A A A A G G A G A A A G G G A A G A C C G G A A G G G G G B A A G G A G$ G GAAGGGGGGGGAACACAGGAGGGAAAAAAGAGGGGAACCGG G GA A $A \operatorname{GA} A G G G G G G G A A A G G A A G G G G G G G G C C A G A C C A A A G G$ AAAAAGGAGGCAGGAAGAGAAGGAAACCGGACAAGGGGGGAG T T G G G G A A A A A A G G A A G G G G G GCCAAGGGAAGAAAACAAA G G C CAGAGAAAAGAGAGAAGAAACAAGAAGGAGAGGGGCAAACC A A A A A A A A G G G GAA $A \operatorname{AGGAAACGGGGGAGGGAAAAAACCGGGG}$ GGGCACAGCAAGAAAACCGACCGGAGAGGGAAAGGCCAAAGAA G GAA $A \operatorname{G} G A G G C C T A A A G G G G A G G G A G A A G G G A G G G G A A A G G G$ G GAGCAAGAGAAAAAGAACCAAGGGGCCAAGGCCGGAAAGGG GAAAGGGGGAAAGGCAACAGAAGGCCAAGACCAAGGGGGGGG G G G G G GCAGACCCGCAAAAGGGGGAAGAGAGAAAGAAGAAAG G G G GCACCAAAAAAGGAATTGGAAAAACAAGAGGTTAATTAA GAGAGAAAAAAAAAGGGAAGAGGAGAGGAGAAAAGGAAAAAA AAAAAAGGGGAACCGGCCAAAAGAGGCCCCGGGGAGAAAAGG AAAAGGGGGGAAAGTTAAGGGGCCGGAAGGCCGCACGACAGB A GAA A G G G G G G GAA A A A G GATTCCAAAAAAAGCCGCGA GAAA GGAAGGCCAGGGGAGGAAACGGCAAGGGCCGGAAGAGGGGAA G G TAAA A $A \operatorname{G} G \mathrm{G}$ GAGGGAGAGGGAAAAAGGCAGGGGAAGAAAAA G GAA $A \operatorname{GA} A G G A A G G G G G G A A G G A A A A G G G A G G A A G G C C G G G A$ CA $A \operatorname{GAA} A A G C G G G A G A G G A C G G G G T T G G C C G G A G C C G G C A G A$ AATAAAAAGAGACAAGGGAAAAGGGGAAGGAAAAAAGGAGAA T T A A A A A $G G G A A G G A A G G C G G G A A G G G A G G G G G G A A G A A B A A$ $A G C A A G A G A A G G G G G G A C A G G G G A G C A G A A G G G G A A A A A G G G$ G GAGAAGAGAAGAAAAACAACGGGGGAAAGGAAAGGGAAAGG $G G T T A G G A G G A A A A C G G G C C C C G A G G G G G G G G A G G G G A G G A A$ GAGGGGGGGGGAGAAGGGAGGGGAAAAAAAGGGGGAGAAAAA G G G GAAGGAAAAAGGGGGAAAAAAGGGAAGACAAGAACAGGG AGGAGGCAGAAGAAGGGACCAAAGAGGGCCGAACAACAGAAA AAAAAAGGTTGGAAGGAAGGAAAAGGGACGCGGAGGCATTAA A A A A G A A A G G G G G G G G C C G G G G G G A A A A G GAAA A G GA GA GAA A A GACCAAGGAGAAAAACAAGGAGGGGGAAAAAAAGGGAGAC GACCAAGGCCAAAACAAGAACCGGGGAAAAAAAACCAGAAGG AAAAGGCCGAAGGAGAAAAAAGGAAGAGAGAGAAAGAAGAAA CAGGAGAGAAACGAAGAAAGAACCGGAAAAGGAAAAGCBAAA A G G G A C G G G G G G G G G G A A G A G G A A G G G G C A A G A A G A G G A A G A A A G G G GCCAAGGGGGGGGCCCCACAAAAAAAAAAGGG
GAAAAGGAGCCCAGGGGACAGGAGGAACCAACCCCCAGCAG
 G GAATTGGAAAAGAGGAAAAAGGAGGGGGGAAAAGAACBAAA
 AAGGGGAACAGGAGGAGAATAAAAACGGAAAGCCAAGCACBG AACCACAAAAGAAACCGGGGAAGAAGGGAAGGAAAGAACABAA
 AA GAA A G GAAA A A A C CAAAAGGAGGGAAGAGGAAGGAAAGAA AAGGAAGGCCAAGGGGGGAAAAAGCCAGAAAAGGGACCCCGG G GAGAAAACCAAGGAGGGTAGAAAAAGAACGAGGAGAGACAG A GAAAAAGGAAACCCCGGGGAAGGAAAGGAGGGGGGGGGGCA AAAAAAGACCCCAGGGGGGGGGAAAGGAAGAAAAAAGAAA GA A A G G G G A A A A A A C C G A G GAGGGGGAAGGGAAGAGCAAGAAAA $A C A G A G A A C C T T G G A A A A A A A A A G G C G A G G G G A A A G G G A A G G$

G G G G GAACAGAGGAAGATAAGGGGGGGAGAGCGGAAAAAGAG A A G G A A G G A A A A G G G G G G A A A A G G A A G G G A G G G A G G G G A A A
 G GACTXGGGGGGGGGGAAGGGGAAAGAGAAGGAAAGAACAAA $A G C C A A A A G A G G A A G A C G A A G G G G G G A A G G G G A A G G A G G A G G$ A A G G A A A A $\mathcal{A} G G G G G A A G G C C G G A A G G G G C C G G G G A A G G G G G G$ A G GAAGCCAAGGGGCCGAAAAAAAGGAAAAGGAAGGGAAAAA T TAA $A \operatorname{GGG} G A A A C A A A G G G G G G G A G A A G A G G G G G G A A C A A A A A$ G G A A A A G G A A C C A A G G A A A A A A C CAACCGAGGGGAAGGCCTT G GAAAAAGCCAACCGGGGGGAAAAGGAAGGGAGAAGAAAAAA A A G G G G G G G G A A G G A A G GAA $A \operatorname{AGGGGGGGCAGGAACCGGCAAA}$ G GAAAGCAAGAAGAAGAGGGAAGGGAAAAGGGAGAAGGAGAA G G G G A A A A C C G GAAAA T T G GA GAA $A$ A A G GA G G G A A A A G G A G G G
 A A A A A A G A G G G G G G G G G GC C G G G A A A G G G GCC G GC C G A A G A A A GAACCAAAAGGAAGGCCGAAAGAACAAGAAAAAAAAAGGGG G G G G A A G G G G A A G G G G C C G A A G G A GAGAGGAAA A G G G A G A A T G G G G G A A A A G A A G A G A A A A GAAGGGGGGAAAGAATTAA GA G G G G G G GAAAAAGAACAAAAAAGGAAGAAACCACGAACAGAAGA
 G GAGAGACGAAGCACCGGAAAAGAAAAACCAAAACCGGGGGG GAGAACGAAAACGGGGGGGGGAAGAGGAAAAGCGAAAACAAA GAGAGGGAAACAAAGAGGGAACAGAGAGATCGGGAAGAGGCC A A G G A A A A A A A GAACCAAAAGGAGGAGGAAGGAAAGCAAAAA A G G G G G G A G G A C A A A G G A G A A G A A G G G G GA A A G G G GAAAAAA A
 G G G G G GAACCAACAGAAAGAGGGGATTAAAAGGGAGAAAAGA $A G C C G G G G G A A G A G G G A A G G G G A G G G A G C A A G G A C A C C G G G G$ C CAAAAGAAAGAAAAGAAAGGAAACAGGCAGGAAAAGAAACC CAGGGAGAACAGGGAAGGCCCCAGGGGAGGGGGAAGAGAAAA G G A A G A A A A A A C G A G G A A A G G G G G A A G G C C C C A G GAA G C C G G TAAAAAGAGGGAGGGGCACCGGAAAGAGCCAGAGCAAAAGAG A G GAGGAAAAAGCCACGGGGGAGCAACCCAAACCGGAACCTT A G A G A A G G A A G A G G A A $\mathcal{A} G G G G A T T A A A A G G G G G G A A A A A G G G$ $G G C C G G G A G G A A A A G G A G A G G A G G A C G G G G G G A A G G A A G A G A$ GAAGGGAGAAAGGAGAAACCGGCCGAGAAGGGAAAAAATTGA C C G GAAAACCGGAAGGGGCAGGGGAAGGCCAAGGAAGGAAGA A A GAAAAAATAGGGAGAAAGCCGGAAAGGAGGAGAACCAGAA GAAA A $A \operatorname{AGGACGGGAAGGGGGGGACCAGAAGAAAAAGGGAAAG}$ G GAA A GAGAAAGCAAGGAGAGGGGGGAAGGAAAAGAGAAAAA CCGAGGGAAAGGGGGAAACAAGGAACGAGAAAAAAAGACAAA A GAGAAAACAACAACCGGAAGAGGGGAGAGAAGGAAAAGGAG G G G G GAACGGGAGGGAAAGGCCGGGGAAACGGAAAAGAAAGG G GAGGGGAGGAGAGAGAAAGAAGAAGGGAGAAAGGAGGACAA $A C G G A A A A G G A A G G G G A A A A A A G G G A G G A A A A A A G G G G A G G G$ G G G G A A G G A G G G C C G G A A A A A G A G G G G G C C G G G G A G G G G G A C G GCCAGGAGGGGAAAAATGAGAACTAAGGAAGAAGGGGCCBG G GAGGGGGGGCCGAAGAAAAGGGGAAGGAAGGAAGACAAGAC $C \subset A A A G C C G G G A A G A G G A G A A A A G C C G G A A A A A A G A C G A G B A$ G G G G G C G A G A A C A A G G G G G G C C A A G C A A A G G G A G G G G G A G A G G G A G G G C C G G A A A G G A G G G G A G A A A G GAC C G A A A G G G G A A A G $G G C C A G A A G G G G A A A A G G A T G G A G G A C C A A G G A G A G G G A A C C$ G G G GA GACCCAACCGACAAAGGGGAACAGGGGGGGGGGAAAA TACAAACCCCAGAGGAGGAAAAGGCCGGAAAAGGGGAAGAAA AAGAAAGGAACCGGAAAAAAGGAAAAGGGAAACCCCAAGAAG G G G G G G A A GAGGACAAGAGGGAAAAAAAAAAAACAGCCAAGA
 A A A C A A A A A A G G A A A A G G G A A A A A G GAA A GAA GA G GA G C C G G $A A C C G A A G A G G G A G G G G A G G A A A G G G A G A A A C G A C C G G A A G G$

G G A A A A A A A A G GAAACGGTTGAAAGAGGAGGGGAAAGGAAAA G GAAAGGGGGAGGACCAAGGAAGGAAAAGGAAAAAGAACAAA GACCAAAGAAAGGGGGGGAAAAAAGGAAGGAAAAAAAAAAAA AAACAGGACAGGGAGAAGAAGGACCCGGAGGGAGAGAAAAGG A GAAA A GAACGAGAAGAAAAGGAACCAAGGGGCAAAAAGGAA AAAGGGCCACAGAAGGGGGAAACCAGAGGAAGAGGGAAGGAG
 GAAGCAAGAGGGAAGGAAGGAAGGGGAAAGAAGGGAACBGAA A A C A C A A G G A G G G A G G G G A A G A G A G G G G G G A A G A G A G G C C G G TATTGCAGAACCAAGGGAGGAGGAGGAAAAGGGGGGAGGGGG GAGGGGGGGAAGGGGGGGCCAGAAAAGAGACCGAGGGGAGGG $A G G A G G G G G G G G G G G A G G G G A G G A G A G G C C G G G G A A A A A A G G$ A A GA $\operatorname{A} G \mathrm{G}$ A GAGACCGGAAAAGAAAAAAGAGAGAGAAGAGGGG A ACC G G G G A A A A A A G G A A A G A A G G G G A GAGCC GAAAA G G G A A
 AAAAAAGGGGGGGGCCCCGGAAGGGAGGGAAAACACAGAGCA A GAAAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A C A A A A A A G G G G A A A G G A G A G A C A A A G G G G$ A A A A G A G G A C G G G A A G A G G G G G A G GACCGGAA GA GAA G C C G G A A G G G GAGGGCCCCGGGAGGGGAGAAGGGGGGGACCAAAGAA AC G G C A A A G A A A A A G G A A G G G A G G G A A G G G A G A A A A A G G G A A G GAAAAAGGAGGCCGGGAAAAGGGAAAGAGGAGAGGGGCCGG AA $A \operatorname{GGGA} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C \mathrm{C} C A A A A A A G G G A G A A G G A A G A C C G G A C A G$
 G G G G A A G G G G G G G G A A A G A C G A G G C C G G A A GA G A T T A A A A G A G GCAA G GAA A A G GAAAAAGACAAAGGGAGAGAAGAAACCCCC AAGGCCGAAAGAAAAAGGGGAAGACCAAGGGGCCAAAGAAAA A GAGGGCCCCGGCCGGGGAAGGAACCCCGGGGAGGGGAGAGA A GAGGAGGGGAAACAGGACAAAGGAAAGCCAAAGAAGBCCAA C C G A G G G G A G G GAA $A \operatorname{GGG} \operatorname{GA} A G A G G A A G G C A G G A A G G A A A A A A$ AA G GAAAAGGAACCAAAAGGAAAGCAGAAAGAAAGAAGACAG C G G A A GAC GAGGAAGAGGCAGACAAGAGGGGGCCAAACAGBA A G GAGAGACAGGGAGAAAAAAAGGAAGAAGAAACACGGAGAG
 A GCCAA G GCACAGAAAAAAGGAGGAAGGAAGGGGAAGGGGCA G G A G A A A A G G G G G G G G A C G G G A G GCC G G A A GAGAATGAC CAA C A A A A A C C G A A G G A G G G A A A G A TAA $A$ A A GA GAA G GAA G G G G A G ACGAGGAAAAGGAGCCCAAGGAAAGCGGGGGGGGGGGACCGG A G G GCCCCGGAAGGGGAAAAACGGAAAAAAAAGAGGGAAACC G G A G A G A G G A A G G A G G G GAGGAAAGGGGGGAAAAAACAAAAA
 $G G G A A A A G G G G A A G G G G G A G A A G G A G A A G G A A A A A A A A A A G A$ $A G A G G A G A G A C C G G G G G A G G G G A G A A C C A A G A A G G G B G A A G G$ AGCACCAAAAAAAAAGGGCCCCGGAAAAGGAAGGGGAAAGGA
 A A A A A A G G A A A GAGAAAACCAACAAAGAGGCCGAGC
CAAAGAGAAGACACCAGAAGGGGGGAAAAAGAAGAAAAAGG G GAAAACCGGAAAGAAAGAGGGAAGGAAGGAACCGBAAGGGA
 CAGAAAGGGGGAGATTACCCAGGGAAGGCCAAGGGGAAGAAA G G G GAACACCGACCAAAGGAAAAAAAAAGGAAAAAGGAAAAG $A G C C A G G A T A A G G A G G G A G G A G A A G G A G G G G G G A A A G G A G G G$ A GAGGGAAGCAAACAACCGGAAGGGGAAAGAAAGGAAGAAAG GA $A$ A $A G G G G G G G G G A C A A A A G G A C A A A A A G A G A G A G A G A A A A$ GAACGAGGGGAAGGCCAAGAGAGGCCGGAAAAGAAGGGGGAC G G TAAAGGGAAAAAAAAAAGAGGAAGGAAACCAGAAAAAACA AACCCAACAAGGAAAAGGAAGGAACCAAGGAAGGAAGGAGAA G G A A A A A G A A C C CAG GAGCCGGTTGGAAGGGGCCAAGAGGAA A A A A A A G A A G G A A G A A G A A G G G G G G GCC CGGAG GAA G G G CAA A AAAGAAGGGGAAAAAAAAAAAAGGAAAAGGGAAAGAAAAAAA

AAACGGGAAAAAGACCCCGGGAAAAAGGAAAAAAGGGGAAAC
 A A A A A GAGGACCAGGAAGAGGAGGGGGGCAAAGGAGAAAAAA G G G G G G G GCAA G G G G GAAAAAAAAGCCGGAACGAGATGGGGAA A A GAGGGGGGAGAAGGAAAGGGAAAAAAGGCCAAAGGGGGGG G G G G G G A G A G C A A C G G A A A A G G G A G G G G A A A A A A G G A A G A G G G G GAAA A G G G C C C A A A A A G A A A A A $\mathcal{A} G G G G G G G G G G G G G A G G G$ CCGGCGGGGGAAAGGAAACATAAAGGGGGGGGGAACAGGGGA G GCA G A A C G A G A GAGGAACCAACAAGAAAGAGATAAAAGAAA AAAGAAGGAAAAGGCCAAAAGAGGGGGAAGGACCGGAAAAAA
 C C A G G GAA $A \operatorname{GA} A G G G G A C G C C A C G G G G G G G A C C A A A A G G A A A A$ GACCAAAGGAAAGGAAAGTTACGGGGAACCAATTGGGGGGGG1
 G GAACCAGAGAGGGGGAGAAGGCACCGGAAGAGAAGAGGGAC AAAGAGGAAAAAGGACCCAGAGAAGGAAAAGGGGGAGAAGAA
 A A G G G GAAA $A$ A A A A G A A A A G G G G G A A G C C G GAAAA A G G G G G G G GAAGGGGGGAGGCCAAAGAGCACAAAAACAAGGGGGAAAGAA A G GAGGCCAAAGGGAGGAAAACCCGAGGAGAAGGGGACACAG G GAAAAGGAAGAGGAGAAAAAAGGAGAAAGAACCGGAGGGCC $A C A A A C G C C C A A G G A A A A G G A A G G A A A A A A G A G G G G A A G G G G$ G GCCAAAAGGAAAAGGAACCCCAAGGAACCGGAAGGGGAGAA C CAAAAAA $A \operatorname{A} G A A A A A A G G G G A A A A A A A A A A A A G G T T A A G G G G$ $G G A A G G A A C C G G G G G G C C G G A A G G C C G G G G G G A A G G A A A A G G$ A GAGGGAAGAGGGGGGAAGGACAGCCGAGGAGAGAAGGAAAA
 A A GAGAGAAAAGGGGGAAGGAAAAAACCGGGAGAGGAGGGGG A A A A GCAGGGGGAAGGAAAGAGCCAAAAAGAGGAAAAGAGAG GACCGGAAGAAAAACGAGAAGGAAGGAGAGCCGACCGAAGGG A A A G G G A A A A GAGGAACCAAGGAGGGGGACAAGGAACCAACC AAAAGACAACGAAAAGGGGGCCACGGAAGGGGGGACAAGGGG A G G A G G A G G G G A G G G G A A A G G G G A A A G A A G A A G G A A G G G G A G $A \subset A A G G A G C A A G G G G G A A G G A A G G A G G G A G G G G A G A C A G A G G$ A ACC G GAAA A G GAGGGAAAGACAGGGAAAAAAAAGGAAAAAA $G G A A G G C C G G G G A A G G A A C C G G G G A A G G A A G G G G G G A A A A A A$ G GAAGGCCTTGGCCCCGGCCGGAAGGGGAAGAGGGGGGABAA G G G GAACCGGGGAAAAGGAAGGAAAAGGGGAACCGGGGAGAA A A G GCCGGGGAAGGAAAAAAGGGGGGCCCCAAAGGGGAACAA A A G G A A G G C C A A G G GA $A \operatorname{A} A G G A A A G G G G A A G G G G G A A G G A G A A$ AAAGAACCAAAGGGGGGGAAGAGGGGCCCCAAAAAAAAATAG
 G G GCAGGGGGAAAAAAGGAACCAAGGGGAAAAGGTTGGTTAA G G A G G G A A G G A A G G G G A GAGGGAAAGGGAAAAGAGAAAGAAA C C G G G GAACCGGGGGAGGAGAAAGAGAAAAGGAAGAGAAGAG GA $A$ A A A $A \operatorname{G} A A G G G G G G A G G G G G G A C A G A C C G A G G T T A A A C A A$ $A C G G A A G G G G G G A A A A A A C C G G G G A A A C A A G G A G G G G G A A A G$ A GACAACCCCAAAAGGGGAGCCCCACAAGGCCCAAAGGGGGG G G G GAACCGGAAAAAAAAAGACCCGGAACAGAGGAAGGCCCC G G G G A A A G G A A A G G G G A A A A G G G G A A G G A A A A C C G G G G A A A A G G G G A A G G G G A A C C G GCCTXGGACAACAGGAGAAGGGGAAAG G GCCGGAGGGAGAAGAAGAAAAAGGGGAAGAAGAAACAAGAG A A G G G A A A G G A GCCCCAAACAAAAAAGAAGAGAACCGGAGGG G G G G G GAGACAAGGGGGGGGGGAAAAGGAAAAGGAAAAAAGA AAAGAAAGCCAAGGGAAAGGGGGAGGCCCCAAGGACGGAAAA G GCCAGGAAAGAGGGAAGAAGAGGAAAAAAGGGGBAABCCBG AAGGGGCCGAACCCCAGAAAAAAAGACCAGGAGAACGAAGAC G G G G A A G G T T A G G G A G G G G G A A G G A A G G GAGGAA A A C CA A A A AAAACCACCCAAAGAGGGGGGGCCAAGACCAAGGAAAAGGGG

G G A A A A G G G GATGGGGAGGAAAAAAAAACCAAGGAAAACAAA GAGGGGGGAGAGAAAGGACAACGGAGCCAACCGAGAGAGGGG ACCCCCGGAAAAAAAAAAAAAAAAGGAACCGGAAGAAGAAGA A GAGAAAACCAAAGAGGGGGGGACTAAGAGAGGAGGGGCCBA G G G GA $\operatorname{GAA} A A A G G G G A G A A A G A G G G G G A C G G A A A G G G G G G G G G$ A A G G G G A A G G G G G G A A A A A $A \operatorname{GGGAGCCCCAAGGGGAGAAGGAG}$ G GCA G GCGAAAAACAGAAGGAAGAGGGACCAAGAGAGAAAAG AAGGAAGACAAGGGAAGGCCGGAAGGGAGAAAACGAAAAAGG CATTAGGGAACCGGAGTAAAAACAGGGAAAGGAAAAGGCCGG G GAAAACCAAAACCGGGGAAAACCAAAAGGGGGGAAGGGAAA
 G G G G G GAGGAGAGGAAAGCCGCAAAAGGGAACGAGAAAAGGC ACAACCAGGGAAAAAAGGAAGAAAGGTTCCGGCCACGAGGGG G GACCCAGAAAGGACCAGCACAAGAAGGGGGGAAGAAAAAGA G GCCGGGGGGGGGGGGGGGGAGAAAGAACCAACAGGGGGGGA G G G G GACACCAAAAGGGGAGAAGAGACCGAGGCCTTGGAAAA
 GAGAAGGAGGGAGAAGACAGGGAGAGAAGAGAACCCGAGGGA $C C G G A A G G A A A G G A G G G A C A A A C A C C A A G G G G A A G G A A C C G G$ AAGGGGAAGGACGGGAAGAAGGAACCAAAAGGCCCAAGAGGG GAAACAAGGGGGAAAGGGACGGAAGAGGAAAAGGCAAGGAGG A GAA A G G G A A A A A A A A G G A A A GAGGGGGGGGGAGA GAA G GAA GAAAAAGGGGGGGAGGGAGGAAAAAAAAGGAAGGAAAAAAAG A GAGACCCGAACGACAGGAAGGAGAAGAGAGGGGGGGAGGAA A GAGACGAGGAGACAACCCCAACCAGCCGGACGAGAAAGGGG GAGGAGCAGGGAAGCCGAGACCGGAAAAAGACAAATGGGACC A G G GAGAAACGGAAGGGGGGGGAAGGCCCCCCCAAGGGACCC CCGGCCGAAAGGGCGGAAAGAGGGGAAAAAGGAGAAAGAGAA

 G GAACCGGGGCCAACCGGGGGGAAAAAAGGGGGGGGAAGAAG AAGGAAGGCCAAACCAGGGGAGGGAGAGCAAAGGGGAAAAAA A GCACCAGGAGAAGAATAAGAGAAGCAGGAAGGGGGGAAAGA GA GA G A A A A G A A A A A A G GAAGGAAGGGGGGTTCCGBAAAAAA AAAGACAAAAAAAAAAAAAGAAAAGAAAGGACAGAAACAGAC GAGACAAAAAGGGGAAGAGGAAACAGAAACGGAAGGGACGTT A GAGAAAGCAGGAAACGGAGGGGGAAAAGGAAAAGGAAGAAA G G G G G G G G A A A A A A A A A TAAAAAAGGCCAGGGAGGACAAGAA C C A A A A A GTTAAAAAGAAGGAAAAAAGGAAGACCGGGGGGGG G G G G G GAAAAAAGAAAAAGGAGAAGGAGGGGGGGGAAAAAAA G G G GCCAAAAAGGAAAGGGGGGAAGGATGGCCGBAAGGAGGA A G G G A A C C G GCCGGGAAGAAGGAAAAGGAGGGACAGGGAAA G GGAAGGCCAAAGCCGAAAAAGGAGAGGGAAAGGGGGCGAAGG A A G G G A G G A A G A G G G G GAGAGGAAGGGGAAAAAGAAGAAAAA G G A A G G G G G G G G G G A A C C G G A G G G G GAAA A A A G G G A G
G GAGGACAGCAAGAAAGGGAGGGGGGGAAAACAGGAAAAGG A A G GCCAGGGGGAGACGGAAAAAAGGAGCCGGAAAAGAAGGG AAAACAGATTAAGGGAGAGGGGGGAGAAAGCCAAAAAAGAAA A GCCGGAACAAAAGCCAATTGGGACCAAAGGGAAAGGGAGGG A A A G GACGAAAAGGAAAAAAAAGGAAAGGGGGGGGAAAAAAA G G G G G GA G C C G A A A A G G G G G G G GAGGAGGAGGAGGGGGACAA A G GCAAGGAGAAACGGAAAACCAAGAAGAGAAGGAAGGAAAG G G G G G GACGGAACCAAGAAAACAAGGGACACCGGGAAGAAAG GGCCAATTGGGGGGAAGGCCGGAAAGGAACAAGGAGAAAAAA ACGAGGCAAGGGAAAAAAAAGAGGAAGGAGAAGGAACCAGAA G G G GAAAGCACCGACCAGAAGAGAGAGGGAAAGGGAAGAGAA AA $A G A A A G C C G G G A C C A A G G A A G G G G C C G G A A G G G A A A A A G G$ A A G A G G A G G A A A G G G G G A G G G G G G G G G G A A A G A A G G A A A A G G G GAAAGGGGAAAGAAGGGGAAAGAGGGACCAAGGGGGGAGAG

GAAGGAGAAAAAGGAAGGAGGGCAAAGGAAGGAAGAAGAAGB

 AGCAGGGGGAAAGGTTGACGAAGGAACAGAAAGGAAGGAAAA G G G GAAAAGCGGAAGGAAAGGGAAGGCCAGAGGGGGGGACAA

 GAGGCCGGGGGGGGGAGGAAGGAGGGCCGGAGGACCCAAGAC C C A A G G G G A G G G A A $\mathcal{A} G G G G G G G A G A G A G G G A G G G G G A A G A G A$ G G GAACGGGGGAGGAAGGAAAAAGAAGGGGCCGGGGAAGAGA G GAA $A \operatorname{GAA} A G G A A A A A A A A G A G A G G G A A A A A G A C G A A A A A G A$ G GAAAACCGGGCAAAAAGGAAGGAGGCAGAAAAGAAGGAGGG
 AAAAGGCCAAGGAAAATTAACCGGCCGGGGGGAAAAGGCCAA $G G C C G G A A A A G G G G C C A A A G G A A G G G G G A A G A G A A A A G A G A G$ AAAAAGCCAAAAAGAGAGGGGGGGAAAACCAGAGAAAGAAGG A G TA A A GAGGGGGGGAAGCGCCAAGAAAAAGGGGCCAAAAAA C CAGGAACACCCGGAGAGCAAGAAGGGGAAGGGGAAGGCCCC AAGGGAAGGAGGGAGAAGGAAAGACAAAACAAGAGAAATAAG AACCAGAAGGGGGGAGAAAGAAAAAAGGAAAAAAGGAGAATA GGGGCACAAGAGGAAAAACCGGACAGAAAGAAAAGGCCGGGA A A A C A G G A G A A A G G G G G G A G G G G A G G A A G G G G G G A A C C G G G G A A G G G GAACCCCGGGGAAAAGGGGAAAAGAACGGAAGACAAA
 A A A A G G A GCCAACCGGAAAAGGGAGGGGGGGGAAGGAAGGCC GAGGGAGGACTTAAAAAAAAGGAGAGAGAAGGAACGAGAGGG A GCAGAGGCCAAAGAAGACCGGGGGGAGCAGGGAAGAGAAAG A A A G G A A A A A A GAC GAGAAGGGAGGAAAAACCAAAAAAAGCC AAAGAAAAACAACAAGGGAAAAACCCAAAGAGAGGAGAAGAG G G G GCCGGAAGGGGAAGAGGAAAGAGAAAACCGAGGAAGACA A A G G A A A A A A A G A G A A CA $A G G G G G G C C G A A G G A G A A A G G A C B G$ $C \subset G G G G G G C C A G A A A G A A A C G A A A G G A A G A C C A C A A A G G C A A$ CAAAAAGAGACGAAAAGAGGAACCGGAGAGGAAAGGAAAAAA G G G GAGGAGAACCCAAAGGAAAAAAAGAGAAAAACCGGGGGG A A G G G GAAAA $A \operatorname{A} C C G A G G G G T A C C G G A C A A G A C A G G G G G G A G$ A A A G G A A GAA $A \operatorname{AGGGGGGGGAAACAAATTCCAAGAACAAGGAA}$ G GAAAAAAGGGGGGGGGGGGGGGGCCGGGGAAGGAACAAAAA A A A A A A A A A A G G A A A A A A A A A A A A GGGGGGAGGATTGGAGAA C C A A T T G G A A A C G A A A G G G GAA $A$ A A G G A A G A G G A A G G G G G G A G
 AAAAAAGGAAAGGGAAGAAGGGGGAGGGCCAAGGAGCCAAAA GACAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGAAAGG AAAGAGGGAAGGGGAGGGAAGAAACCAAAGAAGGAAGACCAC GAGAGAGAAAGGGGGAAACCAGAAAAAAGGAAGGAACCAC GA
 A GCGCCGGGCGCACAAACAGCCGGCCGGAAAACCCCAAGGAA C C A A A A G G A A C C G G G G A A CAGAGAAGGGGGAAGGAAAA GAAA GACCGGAAAAAAAAAAAAAAAAGGGGGGCCGGGGAACCCAGA A GAA A A T TA $A \operatorname{A} G A A G G A A A A G G A G C C G G T T C C G G G G C C G G G A$ A G GAAAA $A$ A $A \operatorname{A} A A G A A A G G A G A A G G A A G A A A G G G A A G G G G G G G$ A A C A G G G G GAGGGGCAAAAGGGAAAAGAGAGAGGGGAAAGAG G GAAAAAAGGAACCGAGGAAGGGGGGCCAAGACCAGAAAAAG GAGAAAGAGAAAAAGAGAAGAAACACAAGGAAAAAGAAAAAA A GAAAAAAAGGAAAAAAGAAAAACCCGCGGACAGCCAGGAGG GAGGAGAAGAGAGAAAGGGGAAGAGGAAAGGGGGGAAAAAAA G G G G G A G G G G C A A C C A G G G A GACCAGGAGGGAAGGAAA G G G G A GAGGGCCTTGGAAAGCAAGAAGAAAAAAACCGGGGGAAAGG AAAAAGGGAAAGAAAAAGGAAAAAAGCCGAAAAAAAGGAACC GAGGAGACAAGGAGAGAAAACCAAAAAGAGGGGAAAAAAACC

ACGGGGAGAGGAAGGGAAAGAAAAGGACCCGGGGCCAGAAGA GACCAACCGGGAGAGAAGAGAAGACAAAGAAGCCGAAAAAGB G GAAGGGAGACGAGAGAGAAAAGGGGGGGGCCAAAAACAAGA A A G GAAAAA AAAAAGGAAAGGACAAAAAGGGGGGCCGGGGGG G G G GAA T T G G G GAGGGAACCAGGGAAGGGGAAAAAAGGAAGA AACCGGAAAACCAAAAAAAAGGAATTAAGGAAAACCAAAGAG AAACAGAGAGGAAAAGAGGAAAAAAAGACACAAGAAAAGGAA AAAGGAGGCCGAAACCGGAATAAGCCGGGAAAACGAAGAAAA GCAGACAGGAGGGGGGGGGGGGAAAAGGAGGGCCGAAGAGCC AAAACCAAAAAACCAAGGGGGAAGCAAGGAAGCCCCGAGAGG G G GAGGAA $A \operatorname{G} G \mathrm{G}$ GAAGGGACCAGAAGGATAAGGACGGGAGGCC A A A A A A G G A A A A A GCAGGAGGAAAAACAAGAGCAGGCACCCG AACCGGAACCGGTTTTAGTTACAAAAGGAAAACAAAGGCACA $G G C C A A A A G G A A A A G G C C G A G A G G A G A G C C C A A A G G A A G G G G$ G GAGCAAGAACAGGGGGGGAAGAGGGAAACGGAGAGCAAAAG AA GAAGCCCCAAGGAAGGAAGGAAGCAAAAGGAACAAGGGGA AAAGGAAGAGAAAGGAAAAAAAAAAGAGAAGAGAGGAAGGGG G G A A A A A A G G G GAAAACCCCGGAAGGAAGAACACGAAAAGAG A G G GCCAGGGGGAAGGAAACACGGAGGGACGGAAGACCGGGG GAAAAAGGGGGGAAGGAAGGAAGGAAAAGGAAGGAAAGAGAG $A C G G C C A A A A A C G G G G A A G G C A G G G G A A A C A G A A G G A C A A G G$ G GAAAAAAAGAAAAAAAAAAGGAGAAGAGGCAAA GAAAGGGG $G G A A T T A G A G C C G G A G A A G A A G G G G G C C G G C C A A A A A A G G A A$ A A A A A A A A A A G GACAGACGGGAGAAAAAGGGGAAGGGGCCAG A A A A A GAA A GCAAAAACCAGTAGGAAAAGGGGGGAGAGAGAG $A G G G G A G G A G A A G G G G A A G G G G A A G G G A G G A G G G G G A A G A G A$ A GAAGCAACCAAGGAAGGGAGGGGAAGGGAGGAGAGGAGGAG
 A A A A GACCCCGGACGGAGAAGAGGGGGGAGGACCGGAAAAAG GAAAAAGGGGGGGAGGAGGGGGAGAGGGAGGGGACCCGAAGA G GCCCCGGGGAAAACCGGCCAAAAGGCCGGAAGAAAGGGGGG AAAAGGAAAAGGGGGGGGAACCGGGGAAGGAAGGAAAAGGGG G GAAAAAA A $A \operatorname{A} G \mathrm{~A} G \mathrm{G} A A A A A A A A A A A G G G G G G A A A A A A A A G G G G$ G G G GCCAAAAGGGGAAAAAAAAGGGGAACCGGAAAACCAAGB G G A A A A A A A A C C G G A A G G G G G G G G C C A A A ACCGGAAAAAAAA G G G G G G A A $\mathcal{G} G A A A A G G G G G G A A A A G G A A G G G G A A A A A A G G C C$ $T \mathrm{~T} G \mathrm{G} A \mathrm{~A} A A A G A A G G G G A A A G G G A A G G G G G G G G G G G A A C A A A G$ G GAAGGACGCAACCAACGCCAGAGAGAAAGAAGGAGACAGAA CAAAGAGGAAGGAGCAACAGAAGGGGAGGGGAGGAAAABAAG A A A A A C G G A A A A G GAA $A \operatorname{GAAAAACACAAGAGAGCAAGGGGGGG}$ $G G A G C C A A A A G A A A A A A A G G A A A G G A A G G A A G A G C C A G A G G A$ GAGAAAAAAAGAGGGAGGAAAGGAGGCCAGGGAAAACCAAGAG G G GACCAAAGAGGGCCAAAACCAAAGGGGGAAGGAAGGAGAA GAGGAAGAGGGGAAGAGGCGGGAGAGGAAGGGGGAAAAAAAA G GAAGAGACAGGAAGAGGCAAAAGAACCCCCCGAAGG
$G C C G G G G A A A A G G G A C A A A G A G A G G C A G G A G A A G G A A A A C G$ A A A GCCGGCCGGAGAGAGAAGAGGGACAAAACGGAGCAAGGA A GCA C GCCAAAGAGGGGGGGGGGAAAACGAAAGGAAAAAAGG G G G G G GCCGGAAAAAACCAACCAAGGAAAAGGAAAAGGGGTT G G A A A A A A G G G G G G G GCCAAAAAGGGGAAGGGGAAAAGGCCCC G G A A G G G G G G C C A A G G G G G G G G G G C C A A G G C C A A C C G G G G G G A A T T A A A A A A G G G G G GCCAAG GAA A G G G A A G G G G G GAA G G G G A A G G G G G G C C G G A A C C C C C C G G A A G G C C G G G G A A A A G G G G G G A A A A A A GGGGAAAAGGGGAACCAAAAAAAAAAGGGGAAAAAA C C A A A A A ATTGGCCAAAAAAAAGGAAAAAAGGGGGGAACCBG A A G G G GCC G G A A G G A A $\mathcal{A} G G G A A G G G G G G G G G G A A G G G G C A A A$
 G G A A A A C C A A C C A A A A A A A A G GCC GGGGAAAACCG GAAAAAA $G G A A A A G G A A C C G G G G G G A A A A G G G G A A G G G G A A C C A A G A A A$

A A A A A A A ATTCCGGGGGGAAGGGGAAAAGGAAAAAACCAAAA $G G C C A A G G G G A A G G A A G G C C A A A A C C A A G G G G A A C C A A G G G G$ AACCGGGGAAAAGGGGAAGGAAGGAAAAGGAACCAAGGAGAA AAAAAAGGAAAAGGGGGGCCGGGGAAGGCCAAGGAAAAAACC G G G G G G G G G GCCAAAAGGGGAAAAAACCGGGGGGAAGBAACC A A A A A A A A G GAAGGCCAAGGAAGGAAAAAAAAAAGGCCAACC G G A A C C C C A A A A G G G G G G A A A A G G G G A A G G T T G G A A G G G G G G $G G A A G G A A A A A A G G A A G G C C C C A A G G G G A A A A G G A A A A A A C C$ A A A A $\mathcal{A} G A A G G A A G G A A G G G G G G G G G G G G G G A A A A G G A A A A A A$ $A A G G G G G G C C G G G G G G A A G G G G A A A A G G A A G G A A G G G G G G G G$ G GCCAAGGAAAAAACCAAAAAAAAGGAAGGGGGGGGGAAAAAA AACCGGAAAAAAAAGGAAAAGGAAAAAAAAAAAAAAAAGAAA A A G G A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G C C A A A A G G G G C C A G A A$ G GAA $\operatorname{G}$ GAAAACCAAAAAAGGAAAAAAAAAAAAGGGGGGGGGG AAGGAACCAAAAGGAAAAAACCGGAAAAAAGGAAAAAACAAA G GAACCGGGGGGGGAAAAAAAAAAAACCAAAAGGGGAAAACC A A A A A A A A G G A A G G G G A A A A GGCCGGAAAAGGAAAAGAAAAA $C \subset G G G G A A A A G G G G G G A A A A C C G G G G G G A A A A G G A A A A A A G G$ A A G G G G A A G G A A A A A A G G G G G G G G G G G GAAAAAAACC G G T TA A G G G G A A A A A A G G G G C C G G G G C C A A G G G G C C G GCC G G A A A A A A G GAAGGCCGGAAGGAAGGGGGAGACACAAGCAGAGGAAGAAG ACAGCCAGAAAAAGGGGGGGAGGGAAAAGGGGGGGGGGCACC A G G G A A G A A G A GACCA G GAACCCC GAGGAAGGGAGGGGGGCA C C G G A A A A G G A A G A G G G G A G C A A G A G GA A A G G A C G G G G G G G G C C A G A G G A A G G G G G G G A C G G G A A A G G G G C C A A G G A G G A A G A A A A A A A A A A A GAGAGGGGGGGGAGGAGAAGGGGAAAAGAAAAA A G GAGGCCCCCCGGGGACGAGGGGGAAGAGGAAGAGAAAGGG GAAA $A \operatorname{ACC} C A C G A G G G A G G A G A A A G G A G G G G G G G G A A G A G A G G$ G G GAAAACGAAAGAGGTTGGGGAAAAAAGGAGGGGAAAAAAG G G G A A A A G A A G G GAGGAAGGGGGGGGAAGGAAGGCCAAAGAA G G A A G G C A A A G G A G G G A G G G C C G G A G G G G G A G A G G G G G G G G A AA $A \operatorname{GGGA} A A A C A G G G G G A A G A G G A A G A A A A G G G G A A G A G G G G$
 C C G GAA $A \operatorname{GA} A A G A C G A C C A G A A A A G A G A T T G G G A G G G G G G A A$ GAGGAAAACCGGGGCCAAAAGGAAAAGCAAAAGGAGGACAAA A A G G A A C C G G A G A G A C G G GACAGGGACCGGAAAAAGCAAA GA C C A G G GACGAGGGGGGAGAAAAAACCGGGGAGAGGAAAGAAA G GAGAGGAGACCAACAGGAGCCGGGGAAAAGAGACAAA G GAAA A A G GCCGGCCAAAAAAAACCGGGGGGGGGGGGAAGGGGAAGA C CAAAACCAAGGGGGGGAAAAAAAAAAAAAAAAGGCCCCCC AACCAAAAAAGGGGGAAAAGAGGGCCACCCGGAAGAAGAAAG GAGGGGAAAGCAAAGGGGGGCCAAGGAAAGCCGGAACCAGAG G G GAGGGGGGAGGGCCGGGAAGAACCAAGGACGGAGGGCCGG G G A A C A A G G G G G A G G G G G A A G G A G A G G G C CA $A$ A A G G A C G G A A C C G A A A A C G A G G G A A A A A A A A A G GAGGAACAACC G G GA G GA G A G G A A G A A G G A A A G C C A A G GA G G G A G G A A A A A G G G C G A G G G G $G G A A A A G A A G G G A A G G A A A G A A T T G G G G C C A A G G G G G G A A G A$ GAAAAAGGAACAAAAAGAACAGCCAGGGGAGAGGAAGGGGGG AAAGAATAAGGAAAAAGGAAAGAGGGGAGGGAGGGGACAAAAA A GAGAAGGAAAACCAAGAGGAAGGGGAAAAAGCCAAGGAABAA CAAAAAAAAAAAAGGAGAAGAAAGAAAGGGGAGAGGGGAGAA $A G A A A A G G G G A G G A G A A A A A A A G G G G G A G A G G A A G A G G A G G A$
 GAAGAGAAAGGGGGGGGGGGACACACAAGGGAGGGGAACAAA A GAGAGAAGAAAAGAAGGAAAGAGGAAAAGAAGAAAAAAGAA AA $A \operatorname{GAA} A G A G G G C A G A G G A G C A A C A A A A A A A A G A A A G G A G C C$ A A A A GAGAGGAAAAAGAGGGAGGAAAGGGAAGAAAGAGAAAC $G G A A A A A A G G G G A G G G G A A A A A A G A G A G G G A G A G A A C A A A A A$ AAGAGAGGGGCCGGGGAAGGGGAAAAGGGGAACAGGAACCGG

G GAAAGGGCAGGGGAAGAGGAAAAGACCAAAAAAGAAGAGAG
 $A G A G G A G G A C G G A G G A A A G G G A G A G A A G A A G G A C G A G G A A G G$ A G GAGGAAAGAGCCAGGAGGGGAAAAGAAAAGAGGGAACABA GAGAACAGGACCGGCCGGCCAGGAAGCAGAGAGAAAGGAGBA ACAAAGAGAAGACAACGGAGCCAGAAAAAAGGACGBAAAGAG CAGGGGGAACAGGGGGGGGGAACCAGAGGGGACCCCCGGGAG AAACGGAGAAAAAAAAAAGGACGAGACAGGAAGGGGGGAAAAG GAAGAGAAAGAGGGAAAGAGAGGGAAAGCCCAGGGAGGAACC AAGGAAGGAAAGAGGAGGCAAAAAGGGGAAAAAAAACAAAAA A A A A A A G G G G T T G G G G A A G GAAAAAAGGAGAAAGCAGACCCC A A C A G G G G G G A A CA A A G GAGGGGACAGAGACAGA GACAAGAA A A A G G A A $\mathcal{A} G G G G A A A G G A A G A A A C G G G G G G A G A A G G A G A A G G$ A A A A G G G G G G G G G G G G A A A A A A A A A A A A A A A G GAAAA A G G G A A G GAA $A \operatorname{GACA} \operatorname{A} A A A A G G C C G G A G A A G G G G A A C C A A C C G G G G A A$ A A A A A A G A A A G G GA $\operatorname{A} G A A G G A A A G G G A G G G A G G A G G G G G G G G$ A A A A A A A A G G A A A A C C GAA $A$ A $A \operatorname{GGGAAAGAAACAACCAAGGGG}$ G G G G A A C A A G A GCCAAAGGGGAGGAAGGGGGGAAGGCAAA G G AACCGGGGGGGGCCGGAAAAAAAGAAAACCGGAACCCCAAAA
 G GAAAGGGAAGGGGGAGAAGCCAGAAGGAAAAGAAGAGGGGG
 GACCCCCCAACCGGGGAAAAAGAGCCAAATAGAGGAGABAAG C C G A A A G G G G G G G A C C A G A A G G A G A A G G G G A G A G G G G G A G A C GAAAGGCCAAGGAAAAGGAAAAAAGGAAACAAGGAAGAGAAA AAGGAAAAAAAAGGAAAAAAAACCCCACGCCAACBAAAAGAG A G GAAAGGAAAGGGGAGGAGACGGAAGAGGAAAAAGAAAGCC A A G G G GAACCCCGGAGAGCAAAGGGGAGTTGGAACAAGAAGA A GAGAAACAGGGAAGGAACAGGAAGGCCGAAGAGAAAGGGGG G GAGCCCCGGCCAAACGGAAAAAAGGAAGGAAGGGGCAAA G G A A A G G A G G A A A A G G A A A A A A G G G G G G C C G G A A A A A A A A A C A A AAGAAACCGGGGAAAAGGGGAAAACCAAAAGGGAAGAGAGGA
 GAAAGGGAGGCAAGGAAAAAGGGGAAAGCCCCGAAGCACAAG G GCCAA G GCAGAGAGAGGAGCAAGAACAACAGGGGGGGGGGG GAAA $A \operatorname{A} A A A G G G G A A A A G G G G A A A A G G A G A G G G A G A C A B A A G G$
 A GAGGGGGAAGAAGAGGAAAGATAAAAAAGAGGGCAAGGGGG
 C C G G A A G G G G A G G A A A G G G GCCAAAAAGCCCCAACCAACAAA G GAAAGAAAAGAAAAAGGCGGGAAAAGAAAGGAAAAGGAAAA GACCACGGACAAGACAAAAAAAAAAAAAGGGGGGGGTTGGGG1 AAAGGACAAAAGAGGGGGAAAAAGAAAACCAAGGGGAAACGG G G A A A A A A G G G GCAAAGGGGAAAAAAAAATCAAGGGAGCAAA G GAGCCAGGGGAGGGAGGCCAGGGCAGGAGAAGGAAC
A A A A A G G A A A GCCCAAGGGCCAAGGGGAAGGAAGGGGGAGG AGCCAAACAAACGGAGACACCCAGGAAGGAGGGGAACCAAAG GAGGGGGGGGAAGAAGGGCCGGTTAAGGAAAAAAGGGGCCGG A G G GATAGAAAAGAGGAAAAAAGAGCGGAAGGGGGGAAAAAA G G G G G G A G A T A G G G A A A A A A A A G G G G G G G G G A G A G A A A A A A G G G G A A C C G G A G G A A A GAA A A T G G G G G GCCGGGCAGCCAGGGGG AAAACCAAAAAAAAAAAAGGAGAAAAGGAGGGGAA GAGAAGA G A A G G G A A A A G G A G G G A G G G G G A A A G G A A A A A G G C C A A G G G G AAGAAAGAAGGGAGAGGAAGAAGGCCGGAGAAGACAAAGGGA A A GAGAAAGGGAGGGGAGAAAAGGAAGGGGAAACAAAAAAGG G G A A C C G G A G A A G G G G A GAA $\operatorname{CAAAGGAAAGGGACCAAAAGGGG}$ G G G G A T G G A A A A G G G G A A A A G GA $\mathcal{A} G G G G A G G A C A G A G G A A G G$ ATAAGGAAGGGGAACCGGAACCGGAGGACAAAGGGGAACCAG AAGGGAGGAAAGGAAGAAAAGGCCAGAAGGCAGAAAGAACAG

A A G G A A G G A A A A TA GAAGAAGGGGGGAGGAGGAAGAAGTTCC
 G G C C G G G G G C A G G A G G G G G A A A G G G G G GAGGGACAA A A A G C A $C C G G A G A G A A A C G G G G A A G G A A A G G G A G A A G A G G G G G G A A A T$ G G GACCGAAAACGAAAAAGGAAAAAAGGACACGGGGAGAAGAA

 AAGACAGGGGAGCAAAACAACCAAGGGGGAGAAAGGCCAAAG AACGAGGAGGAAACGACCAAAGTAGGCCCCCCGGGGGAAAAA G G G GAAGGAGGGCCAGCCCCAAAAACGGAAGGAAAAGAGAAG GAAGGGCGAGAACCAACCAAAGATAAAGAGAAGAAAAAACAA A GAA A A A GAGACACAGGGCCAAGAAGGAGGGGGGAAAAAACC G GCCGGAGGGAAGGAAAGAAAACCAGGGGGAGGGGGAAAGAA GAAAAAAAGAGGAGGGAAGAAAACAAGGGAGAAAAAAAGGTA AAAGAACCGGGAAGAAAAGGGGCAAAAGAAAAGAAAAAAACA GAAAAAAATTCAGGAAAAGAAAGAAGGAAGAAGAAATAGGGG A A A A A A G G GAAAAAGGAAAACAAACCGGCCAAACACGAAGGG A A GAA A G G A A T T A A A GAAAAAAGGGGACCAAGGGGGGGAAAC GAGAGAGAGACCAAAACAAGGGAAAAAGGACAGGAAGGGGGA GAGAAGCCAAGGAAACAAAACCACAAGGAAAAGGGGAAAAAA G G G GAAAGAAGAAAAAAACAGCAAAAAAACAAGGGGAGGAAA ACAGGGGGCAGGGGAAAAGGGAGAAGGAGAAAGACCAAAGGG G G G G A A C C G G G G G G G G C CAGGGAAGAGAGGAAGAAGAACCAG G A T A A C G G A C G A G G A G A G G A G G A C G G G G A A A A G G A A C C A G G A A G G G A C A A A G G G G G G G A A A A A A G A GAA A A C C CAAA A A G A A A A G G G GAGAACCAAAAAAAAAAGAGAGAACAGACAAGAAGGAGA A A A A A A A A G GAAGGAAAACCGGAAGGGGAGAGGGAAAAAAGA G G A A A A C A A G G G G G G A G G G G G G A A G G A G G A GAC C A A A G G G A A G G A A A A A C G GCCGGGGGGCCGGAGGAAAGGAAGAAGAGGGGG AAGAGGAACCGGAGAGGAGGGGGGGGCCGAGGGGGAAAAGAA G G A A G A G G GAGGGGGGGAAGAAAGAAAGACCCGAGAAAGGAA GGCCCCGGGGAAAAAAGAGAGAGGGAAACCAACCGACGCAGA G GAAAAGGGGGGGGAGCCAGAAAACAAGGGGAAAAAGAAAGA A A GACCAAGGATGGAGGAAAGCAGGGGGGGAAAAGAAAAAAG G G A A A A A G A C G GAA A G G G G GAACCGGCCGGGGAAAAAAAGAA A A A G G A A G A A A A G GACAGAGAGACGAGGAAGGCCAAAGAGCC G GAGAGGGAAGGGGAAGGAAGGGGACGAAAAGAACCAGAGAA $C \subset A G A G A G G G A A G A G C A G G G G A C G G A C C A C A A G A A A G A A G A G$ A C G G A A G G A A G G G G C C A GCC G G G G G G A A G A G A G G A G G G G G G G A A G G A A A A G G G G G G G G A GACCCGGGACAAGGAACAAGAAAAA AAGGACAAATGGCCAGAAAAAAACAAACGGGAAGGACCBGAG C G G G G A G A A G G G C C G G A A A A G A G G G A A A G GA G A C A G G A A G G G A GAACAGGAGGACCAAGGCCGGAAGGAAAAGGGGAAAACCAA G G G G A A A A G G A A A A GAA $A$ A A A A A GACAGGGAGGGGGAGA G GA G GAGGGGGAAAGGGGAAAAAAGGGGGAAAAGAAGGAGAAAA G G $A$ GAAACAAGAAGGAAGGCCCCGAAGAAGGCCAAGAAAGAGGGC A A G G A A G A GAGGAGCCGAAGACGGAAGGGAGGCCAAAACACC A GAGAGAAGGAAGGAGGGGAAGCCACGAAGGGAGAGAAGGAG G G GAGGAAGGACAAGAAACAAAAAGGAGAAGGCAGAACAAAC A A A A A GA G A A A A G A G G A A G G TA G A CAAGAGAGGACCAA GA G G

 A GAA $A \operatorname{GAAACCAAGCGGGAGAGACCGGAAAAGAAGAGAGACAA}$ CAAGGAAAAAGGGAAGAGGGAGAGCCAGAAAGGGGGCCAACC G G G A C C A A A A G G G G A G G G G GAGAAAACCGCAACAGAGGAC G G
 G GAA A GCCGACCACGGAGGGGGGGGGAAGGGGAAGGGGAACA A A A G A GA GAACCAAGGGAGAAACAAAGAGAGAAAAGGAAAAA GAGAGACAAACCGGCACAGGGGAAGGAGGGAAGAAGCAAAAC

G G GAA G GAAAAACAAAAACAAAAAGAAGAAACGAGAAAAGCG
 GACACCGGGCAGGAGGCAGGAGCCAGATAAAAAAGAAAAAAG GAGGAGCCAAGGGGCAGGGGAAGGGAAGGGGGGGAAAAAACC G GAAAAAACCAAGGCCGGGGAAAAAAAAGGAACCGGGGGAGG A GAGGGCAGGAACCCCGGAGCCGAAGGGAGGGCCGGAAAGGA
 AAAAAAGAAAAGCAAAGGGGAAGGCCCCGGAAGGAAAGAAAA GAGGAGGAGGGGAAGGAGAAAAAAAAGGGAAGAGACCAAAAA GAAGGGCCAACCAACACGAAAGGAGGGGGGAAGGGGGGGGAG A A GAA ACAGGAGGGAACAAAAAAGAGGGAACCGAATGAGACC C C G A A G G G GAA $A \subset C G G A A G G G G A A C G A A C C G G G G A G C C G G G G$ CAAACAAACCCCAAAAAAAGGGCCAGAAGGCCCCCACCBGAA AAAAGGAACCAAGAGGGGAAAAAAAGAAGGAACCAGAGAGAA AAGAAAGAGGGGGAAAAAGACCCCAGGAAAAACCAAAAGAAA AAAAATGAAACCGGGGGGAAGAGGAGAAGGCCGGGGAAAACA
 A GAGGGGGAAGAGGCCGGAGACCCAAGAAGCAAAAAAGAGCA $T \mathrm{~T} G \mathrm{G} A \mathrm{~A} A A A A A A G A G G A G A A G G A A A G A G A A A A A A G G A A A G G G$ $A G C C G G G G A A A G A A G G G A A A A G G A A G A G G G G A C C A A A G G G G A$ A GGGCAGGAAAAAACCGGAAGGAGAAGAAGATGGAGAGAGAA GAAAGGAAAGAAGGGGAGACAAGGGGGGCCCCAAGGAAGAGA A A A A T TCCGAAAACAGGAGGAGGGAAAGCCAAAGGGAACCBG AACCCCCCAGAAGAGAACAGAAGAAAGGAAGGGGAGAAAAAG $G G C A G G A C A A C C G G A A G G A A A G A A A A G A A G A A G A G A A C A G A C$ G G GAGGGAAAAGGGCCGGGGAAAACAGGAAAAGGAAAAGGCC AAAAGGAAAGAGGGAGGGAAGAGAAGGAAGAACCGGAAAAAA ACGAAGAGTAAAAGAGAGACGGAAAAAGCCGGACAGAGGGGG A A G G G G G G A A A C G G G G G G G G G G A G G G A A G A A A A A T TAAA A G G AAAGAAGGGAGGACGGAAGGGGGGGAAAAAGGAAAAGGACAA
 AGAGCAGGAGAAGGCCGGAAGGAAAGGAACGAAGAACAAAGA A GCCAGGAAGACAGAGAGAAAAGAGGGAAAAAGGGGAGAGAA C C A G A A G A A G A A C A G G C G A A G G G G A A C C A A G G A A A A A GA G C A G G A A $\mathcal{A} G G G G G G G A G A A G G G G A G G G A G A A C C G G G A A G A A A G A G$ A A A A G A G A GAA A A G G G A A G GAAAAAAGGAGAGGBAGAGAC CA A GAAGGAACCCCGAAGACGGAGGAGGGGAGAAAAAAGGTTAA A A G GAA $A \operatorname{GGGCCGGAAGGCCAGGAAAGGCAAAAGAGGGAGGG}$ AAAAAACCCCGGGGGGAGAAAACCCAAAGGAAGGAAAGAGGG AAAGAGGAAAGGCCGGAAGAGACCACGAGAGAACAGCCAGCA $G G A A A A G A G G G G A A A A A A A G A G A G G G A C G A G G G A A G A A G G A A$ G GAGAGAAACAAAGACGGAGAGACAGGACCAGAGGAAGAGAG ACAGGGGGGAAGCCGGAGGGGGAAAAAAGAAGAGGGCCAAAA
 G GAA A A A G G G G GA $A \operatorname{GGGAA} G A C A A G A A A A A A G G G G C C G$
$G C C A A A G G G A A A G A C A A A A A A G G A A G G G A G A A C C C A A C A A A$ $G C A A C C A A G G G G A A T A A A A A G G G G A A A A A A A A G A A A G G G G A A$ AGGAGGGGAACCGGGGAACCAAGGAACAGGAAAAGGCCAAGG ACGAAGAAGGCCGGCCAAGGGAAGGGAAAAAAGAGGAAAAAA A G GA A A GAAAAAAGGGAAGGAAAAGGGGCCCAGGAAAAAAAA AAAAAACAAGGGCCAGGAGAAGCCAGAAACGGGGGGAAGAAA G G G G G A G GAAGGAAGGAAAAGGGAGAGAGAACAAAAGAAAGG A A A GACAAGAAAGGAAAAGAAGAAAAAAGGAGGGGAGGAAAA A A G GAA A A A GAACGAGAAAAGGAAGAAAAAAAAAGAGACGCA G G G G G G G G G GAAGGAAGGGGCCGAGAAGAAAACCAAAAAGAA TAAGAAGGAGAGAGAGAACAGGAGAGAAAAGAGGGAAAAAGA AAAAAGGGGAGAGGGGAAAAGGGGGAGACACCGGAACCAAAA C C A A A A A A G A G G A G G GAGAC GAA A A A GGGGAGGGAAA G G GA A $G G A G G G A G A A G G G A C C C C A G G G A A G A A G A G A A G G G G G G C C A A$

A G G G A A A A A GAGAGCACCGGGGAGGGGGAAGGCCGGAAAAAA A A A A A A A G G G G A C C G G G G C A G G A A G G A A G G G G A A G G G G G G A A A G GAAACCAACACAAGGGGGGGAAAAGGGGAAAAGGGGAAAA
 AAAAGGGGAAGGGAGGGGAAAAAAGGAGCAGAGCAAGGAGAA A A G G G G A A G A G G G G G A C C A A G G G G G G A A G G G A A G G G G A A G G G A G A A A A A GCCAA $\mathcal{A} A \operatorname{A} G A G A G A C A G G G A G A G G A G G A A A A G A A C$ $A C A C A G G G G G A G A G A G G A G G C C A G G G G G C C G G G G A G G G A A G A$ G G G G G G A G G G G G G A A A A A $A G G G G A A C A G G G G G G A A A A G G A G A A$ G G G A G G G G G G A GAGCAGAACCCGAAGAGGGGAAAAACCAGGG G G G GCCACCAAAAAAGGACAGGACAAGAGGGGAAAAGGGGAG C C G G G G G G A G A A C C G G C A A A C C G G G G C C G A A A A A G G G G T T G G G G G A G GCC G G G GCCAC G GAAAAAAGCCAAAAGA GACCGGGGGG $G G C C A A G G G G A A A A A A G G A A A A G A A A A C G A A A G A A G G A G G G G$ A A GAA A A C G A A A G G G G G G G GAGAGAAACGGGACC GAA GAGGG G GAA $A \operatorname{A} A C G A G G A A G G G G A A G G G G G A C C A A G G G G G G A G A A G A$ G G GACCACAAGGGAGCAGGGGGAGAAGACCGGCCAGAAAAAA G GAACCCCAGCCCCGGAGAAGGGGGGCCGGCCAAAAGGGGAC AACCAAGAAGGGGACCGGGGAAGAAAGAACAGGAGACCAGCA AC G G G G A A A A G G G G A A G G G G C A A G A A G G G A A A A G G G G A G G G A AGGAAGGGGAGGAGAAAAGGGGGGAAAAAAGGGAGGAAAAGG G GAGAAAAAGACAAGGCCAAGGAACCAACCAGGGAGGAAAAA

 A G A G G A G A G G G G G G A A A $\mathcal{A} A G G A G G G A C A G G A A G A A G A G A C G A$ A GAA $A \operatorname{GGG} \operatorname{GA} A A G A A C C A A A A G G G C A A G G G G A C G G A C G A G G G C$ GAAGACGGCCCAAAACAAGGAAAAGGGGAAGGGGAAAAGGGG A A A A G GAAGGAAGGCCGGAAGGGGCCAAGGCCGGAAAAAAGG G GCCGGGGAAAAAAAAGGGGAAAAAAGGAAAAGGAAAAGGGG G GAAGGGGAAGGAACCGGGGAACCAAGGAAGGAAAAAAAAAA A A A ACCCCCCGGAACCAAAAGGAAAAGGGGGGGGGGAAAAAA C C G GAA $\operatorname{A} G A A A A G G A A A A A A C C G G A A G G A A A A C C A A G G A G A A$ A A G G G GAA A G A A G G G G A A A A A A G G G G G G G G G G A A A A A A A A A A A A A A G G G G A A A A C C A A $\mathcal{A} G A A G G G G G G G G G G A A G G C C A A G G C C$ C C G G A A A A G GAAAAAA $A$ A GAAAAGGGGAAGGAAAACCGAAAAA A A G G C C A A A A A A G G C C G G G G G G G G G G A A G G G A G G A G T A A A G G A GAGAAGGAGGGCCAAAAAGAGGGGAGAGGGGGGGGAAAGAG A GAAAGCAAGCAAAAAGAGGAAGAAGCAAAAGAGGAAAAAGAA
 G G A A A A A A G G A A A A G G G G G GAGCCAGAGAAGGGACCAGAGAA C CAGGGAACAGAGAGGGGGGAAGGAGGGGGGAGAAAAAAAAA A A G G G A A GCC G G A A A A A A G GAA A GAGGAGAGGGGAGACAAAA A GAGAAAAAAAAGGAAAGGGGAAAACAAGAGGAGGAGACACA G G G G G G G G A A A CAC G GCCAGCAGGGGAAGGCCAGAAAGAGGG G G G G G G C C G G G G A A G G G G G A A G A A $\mathcal{A} A G G G G G G A A A G A A G A A A$ G A G G G G G G G G G G G G C A A G G G A G A G A G G G G G A A G G G G A A G A G G GGGACAGAAAAAAGAAGGGGGAGGAAAGGGACAAA GGGAGGA G GAAGGCCAGAGCAAAGGAAGGCCGGAAGGAAGAAAAGAGAG GACAGAAAAGAGAGGGGGAGGAAATACCCCGGAAAAGAAGAG A GAA A G G G G G G GAA A ACCACACAAAAAAGAAAGGACAACABA GAAAAGAAGGAGGGCCGAGGGGACGGGGGGGGGGAAGAAGAG AAAGCCCCGAAAATAGAAGGCAAAAAAAAGGGAAAAAAAAAA AAAAGGAGCAGGAGACGCGGAACCGGAACACAAGAAGAAAGG AAAAGGAAACAGGAGGACAGCCAGAAAAGGAAGAAAAAGGCC AAAGAGAAAGCCAGAAAAAACCAAGGAGAGAAAGGAGGAGAA G G G G G G C C G G A A G G G G G G G G G G G G G A A G C C G A A G G G C C G G G G G GAGGGAGGGCAAGACAGAAAGAGACGGAGGGAGAACCCCCC A A A GCCACACGAAAAACGCAAAAAAAAAAGAGAGCAAGBGAG $C \subset G A A C A G A C A A A A G G A A G G A C G G G A G G A A A G C C A G A A G G A C$

T TAAAAGGAAAAGCCGAAAAAGAAAGAGGGAAGCAGGAGGG AAAAGACACCAGAACCAGGAGAAAAAGGAGGGGGGGGAAGAG A G G G G G G G A G A A A A A A A A A A A A G A G G G G G G T A A A G GAAAAAA G G G GAAAACAA AAGAAGGAAGAAGGGGGGACCGGAACCGGTT $C C A A G G T T G A G G A A A A G G G G G G G G G G A A A A A A G A C A G A A G G G$ G G A A T T C CAGCAG GAAGAGACCCCGAAGGGAGGGAGCACACC G G GAGAACGAACCAAGGGAAGAGGTTACGAGGAAGGCCAAGA A A A A A A A A $\mathcal{A} G G G G G A C G G A G G A A A C A A G A G G G G G G G G G G G C C$ A A C C G GACAGGAAGAGACGAGGGAGGAACCGGAACAGGGAGG G G GAGGGGAAGGGGGAAGGCACGAGGGGAACAGAAAGAGAGAA
 G G G A G A G A G G A G A G T T A GAC G G G G G G A A G G A A G G G G G G C C C A
 G G G G A A G G A A G G G G A A A G G G G G G G G A A A A T G G A G A A C C G G G A A G G GAAAAAAA $A$ A A A A TA $A \operatorname{A} A A A G G G A G G G G A A A A A C G G G G A C$
 T T G G G G G G G A A T A A C C G G C C A A A A $\mathcal{A} G G G G G G G G G G G A A A A A A$ AAAGAGGGGGAAAAAAAAAGAGAACAAAAGGAAGAGAGAAAA $G G C C G G C C A C A G A G G A C C A A A G C A C C A A G A A G A G A A A G A G A A$ G G T A A G A G G A G A A G G G G G A A A G A C G G A G A G G G G G A A G G G G A A GAAAGGGGAGCCAGAAGAAACCGGGAAAAAGGAAAAAGGGAG
 AAAAAGCACACAGAGAGGGGGAAGAAAAAAGAACGGAAAGAG G G G G G G G G A G G A C A A A G A A A G G G GAGAAAAAGCCAGAACAA $\mathcal{A}$ GAGGACCCCCCCCGGGGGAGGGGGCCAAGGCCGGGGAGAGAG A G G G G A G G A GAGGGGACCACAACAAGGGGGAAGGAACAGAAC AACCGAACGGCAAAGGGGCCGGGGAAAGAAGAAAGGAAAAGA G G G G G G G C G G G A G G A G G A A G G A G G G A A G A C G A A A G G C C A G G G GAAGGAGAACGGAAGGAAGAAAGGAGAAAGCCGAGGAAAAGG G G G G CAGAGGGAAAAGAAACCCGAGGAAAAGGGGGAGAAGAG AAACGGAACCAAAAGGAACCACGAAAAAGGGGGGAAGAAAAG GAAAAAAAGGGAAAGGGGGAGGGGGGAAGAGGAACACCAACA A GCCAAAAGGGGAAAGGAGGAGAGGGGGGAGGCCAAGACCAA AC G G C A C C A A G G A A G G G G G G G G A A A A C C A A A G GA G G G G G G C C G G G A A C A G A G A G A G A A A G G A A G G A A G G G A A C C G G C C G A A G A G A G G G G A A A G A G G G G G G A G A G C C G G G G A C G G G A A G G G A A G G G G
 G GAAAGAAAAAAAAGGAAGAGAAAGAGACAGAAAAGACCGGG CA $A$ A $\mathrm{C} A A A G G G G G G G G A A A A G G G G A A G G A A G G C C G G A A A A A A$ A A A A G GAAAAA A A A G GAAAACCGGCCAACCAAAAGGCCGGCC A G GAAAAAGGGGGGAAGGAAGGAGGGGGGGAGAAAAGGGGGG A A A A G A G G G A A G C C A A A G A A A A G G G G A G G A G G G G A G G G G A G G AA GAAAAGAAAGGAAAAAGAGGAAAAAAAAGGGGGAGGAAGA $A G G G G A A G G G G A G G G G G G A A G G G A G A G A G G A G A G A G G G A G A C$ A A G G A G A G G G A G G G G G A C A A A A A A C C G G C C G G A G G G A
A G G G G A A A A C A GAAAAAAAA A A A A G G G GCC GAACAGGGGAAA A ACCAAGGGGAAGGCCAAAAGGAAAAAAAAGGGAAAGGGGAAA G GAA A GCC G G A A A G A A G GAGAGGGGGGGGACAGAA GAA G G G A A A G GAA A G GAGGAGAAAGGAGGGGGGGAAAGGGGGAAAAAAA A GAAGGAGCCCCACAAGGCAAAGGGAGGCCAGGAAAAAAAAG A A G GCCAGGGGGACAAGGGGGGGGAAACAAAAGGAAAAACAG A G G G A G G A A GCC C G G G A GAGA GA GA A A G GAAA A G G G G GA A A A C C G A A A G G G G A C G G A A A G A G A G A C G G A G G A A A G G T T G G G G G G GAGGAAGGGGCACCCGAAGGAGAAAAGAGGAAGGAAAAAAGG G GAACCCAGGAAAAGGGGGGAGACGGGACCCCGGGAGGAAAA A A A A G G A A G G G G G A G G A T A A G G A G G G A A G G GA A A G G G G G G A T
 $A C A G A A G G A A G G G G A G A G G G A A A A G G G G C C G C G A G G A G A G A A$ $A G A C A A G G A G G G G G C C A A C C A G A G A A A G A A G G A A A A G G G G G A$

C CAGGACCAAAGACGGACAACCGGAAGAAAGGGGGAAGAAAA A GAGAGGACCGGGGAGAAGGAAAAGGGGAGGGGAAGAAACBG A A A A A A CAGGAAAGGGAGAGAGAAAAGGAGGAGGGGCATAAG A G G GAAAGCAGGCCGAGAGGGGGGAAGAACAGGGGAAGGGGG A GAGCAAGGAGAGAAAAAGGGGAAAACCGGAGAGGGAAAAAA G G G G G G G G A C A A A G GCGAAGAAGAGGAAACGAGGAGAABAAG G GCCCAGGGGAGAAGGGGAAGGGGAGAAAGGGGGGGGAAAAA AAAAAAAAGGGGGGAGGGAAGGGGAGAACCGGAAAAAACCAA A A G G A A G G A G G G A G G G G G G G A A G A GAA A A G G G A G A A A A A G A $G$ AGCAAGAGGGAGAGGGGAAAAAGAAAGGCCCCGGACAAAGGG A GAA A GCCAGAAGCGGCAGAGGGAGGGGCCGGAA $\operatorname{CA} A G G G G A G$ G G G GCCGGCCAGAGAAGGGGAAAGAGAAAAGAGGCCGAATCC G G G A G G A G A A A A A A A A G G CAGAAATTGAGAGGAGGGAGAACA T T C C G G G G G G A G G A A G A G A A G G G A A C G A G G G G C A G G A G A A G G G GAACAAAGGCCGGGGAAACGGGAGGGGGGACGGGGGGAAAA G GAAAAGGGGAACAGGAAAAGGAAAGAGAGAAGAAACCACAAA
 GAGAGAGAGGGGGGGGGGAGAGAAAGACAAGGGGGGAAAGAA AAAGAACCCCGGAAGGAAAGGGAGCAAAGAAAGGACAACCAA A A A A G A A GCAAACCCCAAGGGGAGAAGAGAAGAAGBAGACGG ACAGAAAGTTGAAAGGGAGGGGCCGCGGAGGAAGAGGAGGGG A A A A G GAA A GAGGGAAAAAAAGAAAGGGGGAACCAAGGGGGG G GAA $A \operatorname{GCA} A A A G G A G A A A A A A A G G G G G G A A G G A A G G G A A C A G$ C CAAAAGGGAACCCGGGACAACGGAAGGAAAAAACCGGAAGBG G G G G G G G G G G A A G G G G C C A A A A A A G G A A G G C C C C A A G G G G G G G G G G A A A A A A A A G G C C C C G G G G G G G G A A A A A A A A G G G G G G G G AAAAAACCAACCAAGGAAGGGGAAGGAAAAAAAAGGAAAAAA A A A A G GAA $A \operatorname{GGGGGGGGAACCGGAACCAAGGGGAAGGGAAAGG}$ C CAA G GAACCAAGGAAAACCGGAAAAAAAACCCCGGAAAAAA AAGGGGGGAAAAAAGGAAGGAAGGGGCCGGAAAAAAAAGGAA $G G A A A A A A G G G G A A G G G G A A G G A A G G G G G G G G A A G A A A G G G G$ G GAAGGAAAAAGGGGGAAGGAAAGCAAACCGGAGGGAAGGAG A A A CAAAGAAA A G GAAAAAAGAGGGGCCGGAAGAAACGGGCAA A G G A G G A A G GCCCACCACGAGAGGGGGGAAAAGAGGGGAGGG CACA $A \operatorname{A} \boldsymbol{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A A G G A A A A G G A A G G C C G G A G A A A G$ G G G A G G G G A A G G A A G A A A A G G G G G G G G G G G G G T T A A A G C C C C A GACAAAAGGCCAAGGAGGAGGGAAAGGGAAAGAGGAAGGGA A GAGGGCGAAAAAGAAAAAGGGAGAGGGGAAGGGACGGCCGG A G G G A GCCAAGGCCAGAACAAGAAGGAAAAAAAGAGAAGAGG A A A A G G G G A C A A A A A A G G G GAAAAAAGCAAGACAGACCCCC G G G G G G G G G G A G G G A A A A $\mathcal{A} G G G A A G G G G A G A G C G G A A G G G A G A A$ G G G G A C G G G A A A G G G A A A G G T T C A A A A A A A A G G GA G G G A G A G GAAGGAGGAACCAAGGGGAAAGAAAAAGAACAAAATAAGGGG G GAACCAAACAAAGGAAAAGGGCCGAGACCAAAAACACBGAG C C A GAA A G G G G A A A A GCCGGGGAGAGAAGAGAAACCAGACAA
 $G G A A G G A A A G A G A G A A G G A C C A A G G G A G G G A G A A C C C C A C G A$ G GAGCAGAAAGGCCAACAAAGGGGAAGGGGAAGGAGAAAACC AACCGGAACCGGAAGGGGAAGGAGGGAAGGGAAGAGGGGGGG G GCCACGGAAAAGGGGGGGGAACCAAAGGGAAAAGGCAAAAA A GAGGCGGGGGAGAACGACCGACCAGAGGAGGGAGGCAAAAG A GAGAGGGAAGAGAAGAAAAGGAGAAGGGGAAACGAAACAAG G G G G A G C A G A C A G G G A A A G G A A A A G G T T A CA $A$ A G C C C C G G G A AGGGAAGAGGGGGGAAAAAAGAGAGAAAGGCGGAGGAAGAAA A A G G G G G G A A G G G G G G A A G A A A A A A A G GAGAAA A GA GAAA C A $A C G G G A G G G G G G G G A G G A A G G G A G G G A A A G G A G A A A G G A G A A$ A A A A G G G G A A C A A G GAGGAGCCACAAGGAGCCCCAAAAGGCC A G G G G G G A A A A A G GA GAG CAAAA A A A GAAA A G GA G GA G A G G A $G A C C G G G G A A C A G G G G C C A A A A G G A A G G A A G G C A C A A A G G A G$

AACCAGAAAGAGAGAGGGGAGAGGGGGACCCCAAGGGGAACC G G G G G G A A A A G GAGGGGGAGAAACAGAACCGAGAGGAAAAAA AA $A G G G A G A C A C G G A A A A A A A G A A A A G A A G G A A G A A A A A A A A$ GAAGAGAACAAAAAAGAAAAGACCGAGAGGCCGAAAGAGAAG $C \subset A A C C G G G G G G G G C G G G A A A A A A G G G G G G A A A C G A G A C A A A$ G G A A A A G G G A G G A A C C G A G G G G A A G G G G G G A A G G G G A A A A G G G GAA A G G G A A G G A A A A G G A A G G G G G G G G G G G G A A A A A A G G C C AAGGAAGGAAAAAAGGAACCGGAAGGGAAGAAGGCAAAAGCC ACAGAAAAGGAAAAGGGGAAAAAACCGGAGCCAGAAAGGGGA G G GAAGGGGAAGAGGGAACAAAGGGGGGAAGAAGAGGAAGCC
 G GAGAAAAGAGGGACAGAAAGGAGAAAGAGAGAAGAAGAGBA G G G GAACCGAAGGGAGAAGGAGAGAGAAAGGGGGAAAAAAAG GAAAGAGGGGAAGACAGGAGGGAAAAGGGGAGGAGAAGAGAA G G GAAGGGGGAGAGAGAGAGGAAAAAAAGGCCGGAAAAAAGA G GAAAAGGGGGAGAGGGGCCGGGGAAGAACGGAAAGAAAGCC
 G GAAAGGACCAAGGCCGAGGAATAGGGGGGGAAAGGGGGGGG $A C C A A A A G G G G G C C A A A A A C A G A A G G C A A A G A A A A G A G A C G G$ GAGGAGAAAAGGGGCACCGGAAAGAAAGAGGGGGGGCAAAAG ACGAAGGGAAGGAAAAGAGGGAAAGGGGGGAAAAGAGGGGCC G GCCAAGGGGAAAGAAGGGACACCAACCAAAAAGGCGAAAAG AAAGAAGGTTAAAACCAACCAAGGGGAAAAGGAGGGGGAGGG G GAAAACCGGGGAAAAGGAACCAAGGAAGGAAGAAGGGACAA G G A A A A A A G G G G G A G A A T A GAA $A$ A A A A GA G A T T A GA G G G A G G A A A A A G GCCAGGGGGAGGGGGGAGGGGGAAAAAAAGGCCGGTT C CAAA A G G C CAAGGACAAGGGAGGGGAAGGAGAAAAGA GAGA A A G GAACAAGAAAGCCGAGGGACAGGGGAGATAAAACAAAGG A A G G G G G G G G A A A A G GAGGGAAAAGAAACCGGAGCCGGAGAA $G G C C G G G G A A A A A A A G A G G G G G G A C C G G A A G G C A C A G A A A A G$ GA $A A \operatorname{A} A \operatorname{A} A G A G G A G G A A G G G G G A A A A G A A G G G A G G G G G G G G G$ A A G G G G A A G GAAAATTCCGGGGGGGGCCGGAAAAAAAAGAGA G G G G G G G G G G G GAACCGAGAAACCAAGGAAAAGGAGAAAACC AAA A GAACGGAAGGGGAGAGAGAGGGGGAAGGGGAAAGGGGG AAAAGGAAAACCCCGGGAGAGGGAAGCAAAGGAACCAAATAG G GAGGACAGAAAGGCCGGGGACGAGAAAAAAGGGAAAAAAAA A G G GAA A GAAA A A G G G G GAAGGGGCCAGAGAAAA GACA G GAAA A A G GAA $A \operatorname{GA} A G A A A G A G G A G A A G G G A G G G G C A C C A C A A A G G G$ G G G A C A A G G G G GAAAAGGGGGGAGGGAAGGCCGGAAAAAGAA G GAGAGAAGAGAATGGGGGGAAGGAAAGCCGGGGAAGAGACA GAAGGGAAAAAAAAAAAACCAAAAGGGAAAGGGGGAAAAGAA G GAAAAGGGAGGAGAACCAAGGGAAAGGGGAGAGGGGAAAAA G G G GAAAAGGAAAAACGGGGAAGGAGGGAAAAGAAGGGGAGG GAGGCCAAGAAAAAAAGGCCAGAAAAGGGGAACCAAGGCCAA G GAACCAAAAAACCGGGGGGCCAAGGGGAAAAGGGGC
CAAAAGGGGAAGGGGGGGGCCAAGGAAGGCCGGAAGGGAAA G GAAAACCGGAAGGGGGGGGAAGGAAGGGGAGGAGAAAAAGA AACCAAGGGAGGGGGGAAGGGGGGGGAGGAAAAAGGAAGAAA GAGACCAAGAAGGGAGAGAGAAGGAAGGAAGGCCAAGAAAGG G GAGAGCCAAAAAAGAAAAACAAAGGAGAAAGCACACAAGAG AA G GAAAAAAGGAAAAGGGAAAAGGGGGAAACGAAAAAAGAG GAAAAGGGACAAGGAAAGGGAGAAAACCAGAGGGAAAAAGGG G GAGAAGGAAGGGGAAACAAAAGGAAAAGGCAAAGAAAGGAG G GAAGGGGAAGGGGAAGGAAAGGGGGGAAGGAGGAAAACAAA GACCAACCAAGGGAGGCCAAGGAGAGAGGGGGGGAAGAAGGG A A G GAGGGCCGAGAGAGGAAAACCGAAGGGGGGGAGCAAGGG $G G A G G A G G G G G G A G A A G A A G G G A C G A G A A A A A A G G A A A A G A G$ $C C G G A G G G C G A A G G A G A A G A G G A G G A G G G G G G G A G G A G A G A A$ A G G GAGGAAAAGAGAAGGAGGAGGAGAAGAAAACACGAGAAA

G GAGGGAAAAGGAGGGGAGGAAAAGGGGGGGGAAAAAAACAC
 $A G G G A C A G A A A A A G G G G G A A C A G A G A G G G G G G A G A A A G A A G G$ CACCGGCAAGAACCAGGGGGGGAGAGGGAGAAGGGGAGAAAG A A GAGAAGGGGAAGCCAGGGAAAAAAGGGGAAAAAGGGGGGG GAGGAGAAGGGGGGGGGAGAAAGGAAGAAAAAAAAAGGAGAA CATAAAGGGAAAAAACAGAAGAAACCAACAGGGGGAAGAAGA GAAGAAGGGGGGAGAACAAAAAGGGGAATXAGCGGGGGCCGG G G G A A GCCAAAAAACCGGACAGGAGGGACCAAGBAAGGGGCA AAGAAAAAGGAAAAAGGAAAGGGGCCAAACGGAAAGAAGAAA A A G GAA $A \operatorname{GAA} G G A A C C A A A A A A A G A A A A G G A G G G A A A A G G T T$ G GAACCGAAGAAAAGAAGCAACGAGGAAAAAAAACCGGGGGG G GAA A G G G G GAA A G A A A A A A A CAAAAAAAAAGGGGGGAGAA GA A A G G G G A A A A C A G A A GACAA A A A G GAGAAACCGGGAAGAGA G C C A G G GAGAAAATTGGGGCCAAGGGGAAAAAACCGGCAGAAA A GCAAAAAAAAAAGCAAAAAGAAAGGGGAGAGAAAGAGATTA
 GAGAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAGG $G G A A G G A A C C A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G G$ A A A A A A C C G G A A A A G G G GCCGGGGAAGGGGAAAAAAAAGGAA GGGGCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAGG A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G GAAAA G G G G AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGGAAGAAAA A A G G A A G G A A A G G G A A G G A A C C G GAAAACC GAGGGGGCAAAA G G G GAAAAGGAAGGGGAAGGGAGGAGAAAGGGGCGAGGAA GA A A GAGGGAAGAACCGGGGGGGGAAAAAAGGAAGGAAAAGGGA
 $A G C A G C G A C C G G G G A A G A G G G G G G A C G A A G G G A A A A G G A G A G$ C C C C A A A A G G A A GAACGGGAAAGAAGGGGGGGCCAAGABAAG A A G G A A A A G G G A GAGGAGACCCAAAAAGGGAGGGAAACAAAA
 CA $A \operatorname{GAA} A \mathrm{~A} G \mathrm{G} A A A C A G A C G G G G A A A G G G G G A G G G G G C C G G A A$ A A G GAAAAGGAGGGAAGGACCCCAGGCCCAGGAAGAAAGGGG
 A A G G A A G G G G G G G G A A $\mathcal{A} G G G C C A A G G G G G G C C A A A A C C A A G G$ C C G GAGGGAAAAGGAAACAAGGCCAAGGAAAGGGGAAAAAGA A A G GAA A GAAGGGGGGGGAGCCGGGGGGACAAAAAAAAGGCG G GAAGAAGAAAAAAAAAGGGGAAGAAGAATCAGAAAGAACAA A A G A A A G G A A C C G A C C T A A A A G A G G G CAAAAAAA A GAAC C G G A GAGCAATGGAAGAAGAAGCACAAGGGAGGAACAAAGG GATT AACCAACCAAAAAAGGAAAAAAGGGGGAAAGGAGAGCAAGAG CA $A$ A A A G G A A A A A A G G A A A A G G A A GGGGAAGAAAAACAAACC A A G G G GAAGGGGGGCCAGGACCGGGGGAGACCGAAGGGAAGA A G A A A A G A G A C A A A TAAAAAGAGGAAAAAAAACCAAA GAGAA A GAACAAAGACAAACAACCAGGCCGGGAAGGATTAAAAGGGA
 G G G G A A G GCA G G GAAAAACCAGGGAGACACGAAGAAACAGAG G GAACCGGGGCCGAGGAGAGAAGAAAGGAGAGAGAGAAAGAG AAGACAAACCAACCGGGGAAGGAAGGTTAAAACCAAGGAACC G G G G G GCCCCGGGGGGGGAAAAAAAAAAAAAAGGGGGGAAAA G G G G G G A A C C G GAA A A G GAAGGGGAAGGAAGGGGGAAAAA G G C CAAGGGGAAAAGGGGAAGGAAGGGGCCCCGGAAAAAAGGGG G G A A A A G G G G A A G G G G C C A A G G A A A A G G A A G G A A G G G G A A A A C C A A A A A A A A A A A A C C C C G G G GCCAAGGGGGGGGAACCAA G G G G G G G GAA $A \operatorname{GCC} C \mathrm{G} G \mathrm{G} C A C \subset A A C C A G G G A A A G G A G G A A G G A C$ GAGGAAAGGACCGAAGATGAAGGGGAAAGGAAGAACGGAGAG AAGAAAGGCGCACCGGAGCCGGGGAGGAGGGAGAAGGGACAG G G A A A A G A A G G A A A A A C A A A G A A G GAGGGGCAAAGAA GAAAA $G G A A A C G G G G C C G G G G A C G A A A G G G G A C A A A G C C G G G A G G A A$

C C CA $\operatorname{C} G A A C C G G A A A G G G G G A G A A A A A T A C G A G G G G G A A A A A$ GAGGTAGGAGCAAAAACCAAGGGGAACCAACCGGGGGGAAGA G G G GAACCGACCGGGGGAGGAGGGGAGAAACCCCGAGGAAGA AAGGAAGGAGAGAGAAGGAAAGGAGGAGCCCAGGGAGGGGGG GGCCAAGGGGAAAGACGACAGGGAAACCAAAACCGGGGAGAA A A C C A A G A G A A CACAGCAACCAGGGAGGAGCGGAGAGAAGAA GAGGGGGGCCGGAAAAGGAAGAGGCCGGCCGGGAGGGAAAAA G GAAAAAAGGAAAAAAGGGGAAAAGGAAGGGGGGAAAAAAAA A A A A A A G G A A A A A A A A A A A A A A A A C C G G G G GGGGAAAAAAAA G GAAGGAAGGGGGGGGAAGGCCGGAAAAAAGGAAGGCCCCGG AAAAGGGGAACCGGAAAACCAAGGAAACAGGGAAAGGGAA GA G G G G A G A A A A A A G G GAAAACAAGGGACCGGGGGGCCCCAGAA C C G A A GAAAAAAAAGGCCGAGGAAGGGGACGAAAGAGGAAGAG $A C A A G G A G A G A A A A C A A G G G A G G G G A G A C A G G C A A A A A G G A A$ A A G GAA A GAAAAAGGAGGAGACAAGGGGCCAAGGAAAAGGAA CACCACAACCCCCCAAGAGAAAAGCAGAGGAAGGAGACAAGA
 AAGGCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGGAGAA A GAAGAAAAGGGGAAAGGCAAGGAAAAAGGAAAAAAAAAGCA
 AGACGGGGGGAAGGGGACAGAGAAAGACGGAACCAACCAAAA A GAGAAAGGAAGAACAGAGGAAGGCCAGAGAGAAAAAGAAGG GA $A \operatorname{GGG} \operatorname{GA} A A G G C G G A A A A G G G G G A C A G A G G G G A A G A G A A C B A$ GAGGCCAGGGAGGGGGGGAAGGAGCAAGTTGGAAAAGGAABA A G A A G A A G A G G A A C G G A G G G G A A A A A G GAAA A C C G G G G G A A $G$ G GCCAGAGAAAAGGCCAAGGAGAAAAGGAAAAAAGGAAAAGA $C \subset C A C C G G G G G A G A G A A G A A A A G G A A G G G G A A A G A A G A A G A A$
 G G G GCCAAAAAAGGAAAAAAAAAAGGGGAAAAAAAAAGGGGG $G G A A A A G G G G G G G G G G G G G G G G G G A A A A A A A A G G A A C C A A G G$ G G G GCCGGGGGGCCGGAAAAAAGGAAGGAAGGAAAAGGAAAA AAGAAACCAAGGGGAGGGAAGGAACCGGGGCCCCCCAAATAG A A GAGAGGAAAAAGGGGGAAGGAACCAAGGGGGGAAAAAGGG G G G G T T A A C C G G G G A G A A C A A G G G A C A G G G G G G A G G G G A A G G A ACCAAGGGAAGCGAGGGGGAAGGGGGGGGGAAAGACAAAAG C C G G G G A A A A A A G G G G G G G G G G A A G G A GTTCCGGA GAAA A A A A A GAGGGGCAAGAGGGGGAGGAACGGCACCGGAAAAAAAGGG AAGGGAGGACCCGGGGGGAACCAAAATTACAACCGGAGAAAA A A C A G G G G A G A A G G G G G G A A A A G G G G G G G G C C G A A A A A G G G G AAACGAAAAGGGCAGAAAAAAAAGAAGAAAAAAGGGGGAGAA AAAACCAACCAAAAGGAAGGCCGGGAGAGGGGGGGAAGAAAA A A A A A CAAAC GAA GCCGAAAGAACGGAAAAACAAAAAGGGGG1 AACCCCAAGGAAAAAAGAAGAGAAGAAAGGAAAGGAGAAGCC A A G G G GACCCAAAAAAGGGGGGAAGGGGAAAGGGGGGAGGGG G GCCGGGGAAAAGGGGGGAAAAGGAAGGAGCCAAAAG
GAGAACCGAGGGGAAGGGGCCGAGGAAGGAAAAACGGAAGG A A A A G G G G A A G G G GAAAAAAAGGCCGGGGGGAAGACCGAAA GA G GAGAAAAGGGAAGATTCCGGAAGAAAAATTAAAAGAAACC ACAGAAGAAGGAGAAGGGGGAAGGAAGGAACAGAGAGGGGAG A A A A G GAACCAAGACCGAAAGGGGAAAGCCGGAAAGCCAGGC G G GACAAGCAAAGAACCAAGAAAAAAAAAGGACCAAGCGGCC CACCACACGGCAGGACGGGGAAGGGGAAAACCCCAAAAAAAA G GCCAAAAAAAAAAGAAGAACCGACGGGATGGGGGGAAAAGG A G G GAGGAGGCCGGAAGAAGAGAAGGAAGGGGAGGGCCGGCC G G A A G A A A A G G A G G G G A G G A T TA A A A A A G GAAA $A$ A G G G C C A G A G G A A GCCGGAAGGGGGGGGAAACACAAGGAAGAAAGGCCGG C CAGGGCCAGAACAAGAAGGAAAGGAGAACAAGBAABAAGGG ACAGAGAGGGGGGGGGGGGAAGAAGGAACCGGAGCAAAGGAG $C \subset G G A A A A G G C A C A A G A A G A G A G G G G G G G G A A G G A A G G A A G G$

A A G G G G G GAGCCAGGGAGCCACGGACACGGAGGGACGGAGCA A GAAAACCAAGAAAAGCGAAGGACAGAAAGGAAGGAAAAAGG GGGACCGGAGACAGAAAGGGAAGGCCGGGGAAAACCAAAGCC $C \subset A A C A A A G G A A A A G G C C G G G G A G A A G A C C A G A A A G G G G A G G$ A GCCGGAAGAAAGGGAAGAGCCGGGAGAGGAACAAGAGAAGA GAGGAGCCGGAGAAGAAAGAGGGGGGAAAGAAAAGGAAAAAA G G G G G G G G G G A A G G G A C C G G G G C C A A G G A A G G G G G G G G A A G G AAAAGGGGGGAAGGAGAAAGAGCCAACCGGGGAGAGGGAGAG A G G G G A G G G G G G A A G G G G G A G G A G A G G G A A C C A G G A G A C G G A GAAACCTAGAAAGGCCGGGGAAGGAAGGGGAAAAAGAAGGCC
 A A G G G G A A A A G GAA $A \operatorname{GAAAAACCGACCGAAACCGGGGAAGGGA}$ G GAGGGGGAAGAGAGGAAAAGGTTAAGGAAAGGAGAAGGGCC C C G G A G G G A A A G G G G G A G C A G G G G G G A A A GA A A G G G G G G G A A A G GAACAAGGGGAACGGGGGACGGCCAAAAGGGGGGAGAACC GAGGGAGGCCAGGAGAAGGGAAGGAAAGCAAAAGGGAGAGAA
 A A G G A G G G G G G G G G GAGGCCCCAGGGCAAACAAA GAGA GAAG CCGGAAGACCCCGCAAGGCAAGCCTTGGAGCCAAAAACAGAG A GAAAAAGGGAGGGAAGGGGCCGGAAGGGGAAAAAAGGAAAG $A C C A G G A A C C G G A A G G A A G G G G A G A A A A A A C C G G G G G A A G A A$ G GAAA A G G G GAAGGAAGAGAGAGGCAACGAAAGGGGAAAGAA GAGGAAGAGAGAAAGGGGAAAAGGGGGGGGAAGAAAAAGGGG $G G T T G G A G G G G G G G G A G G A A G G A A A G A G G A G G A A A A G A A A A A$ A A G G A A A A G GCCGGGGAAAAGAGGACACGGGAAAAAAAAAGG A A A A A A A A A A G GAAGGAGGAGAAAAAAAGGAAAAGGGACCAG A GAAAAGAAAGGAGGGAAGGGGAAAAGGGGAAGGCAGABAAA TAATGGGGACCCAAGGGGAAGGGGCAAGCCGGAGAACCAAGA GAGGGGGGCCGGAACCGACCGGGGGGAAAAGGAAAACACAAG $G G C A A C G A C C G A G G A A A G A A A G A C A A G A G G G G G G A A A A A A G G$ C G A A G G G G GAAA $A \operatorname{AGGGGAAACAGGGGACAGGGAAAAAAGGAG}$ AAGGAGAGCAAAAAAGAGGGGGGGAAAGAGGGGAAACCCC A A $A$ G GAGCAGAACAGCCCCGGAAAAGAAAAAAAAACAAGAAGGGG
 GACCGAAGGGGAGGAGGGGGGGGGGGAAGGCCGGA$G A G A G G A$
 G G G G GAGGCCAAGAGACAGGCCGGCCAGAGCCGACCAAAAAA A A G G G GAA $A \operatorname{GGGGA} A G G G G A A A G G G G A A T T G G A C A A C A A A G G$ C C G A A A A A G G G G T T G G C C G GAAAAGAGAAAGGGATTACAAAA A A G G A A G G G G G G A A G G G A G GCCCCAAACAGGGGGAAAA G G G A CAAAGGAAAGGGGAAAAACCAGCCAGAAAAAAAAGGCAAAAA T TAAAGAGAAAACCAACAGAGGCCGAAGGGGGGGGAGCACGG AAGAAGGAGAGGACGGGGGGGGGGGGGGGGCCGGAAGAGAAA
 GACCAGCAAGGGGGGGGGGGACAAAGTAAAGGCCAAGAAAAG A A GAAACCGGAAAAAACAGGGGGGGGGGAGGGAGGGCCCCAA G G GAGGCCCCGAAGGGAAAAAAAAAAAGAAAGAAGGGGGGAB GAAAAAGGAAAAAGAAAAAGTTGGGGGAAAAGAAAAGGEGAA GAAGAAGGAGACAGCCGGAGAAGGAAGGAAGAGAAAAGGGGA G G G GAACCGGACAAAACCCCCCGGCCCCGGCCAAGGAAGGGA GACCAGGAGGAAAAAGAGGGAAAGAGAGAAAGAGAACAAGAA G G G GAAAAGGACAAGAAAGGAAGAAGCAAGAGGGGGAGAAAA $A G G G A A G A A G G G A G C C A A G G A G G G G A A G G G G A A A A G A A G G G G$ AAGGAAAACGAGAGGGGGGGAAGGGGCAAGAAAAGAAAAAAG
 G G A A C C GAGGGAGAAGGGGGAAAGGAGAAGCAGGGGAACAA G G G G G G G G G A A A A G GAGATAA A $A$ A A CAAGGAAAGAGGGGGACAA A A G G G A A A $\mathcal{A} G G G A G A A G G G G A A G G G G G G A A C C A G G G A A G A A A$ G GAA A GAA A G GAAAAAGGGGGGGGGGGGGAAGGAGGAACAAG

A A G G G A A G GA GAGGAAGGAGAGGGGGGACGACAGGGAAGGGG GAAAAGGGACAAGAGGGGAAAAAAGGGGAATTCCAAGAGGAG GAAAAACGGGAGGGAAAAAGGGAAAGGAGGAAGGAAGAAAAA GGCCGAAGAAGGGAGGGGGAAGACAGAAAAGGGACAAAAACC G GAGGGGAGGGGCAAAGGAAGGGGCAAGAGGAAACCAAAGGG A GAAAGGGGGAGAGGGCAGGAAAAGAAAGGGGAGAAAAGGGA A GAA A GAAA $A \operatorname{A} \operatorname{A} A A G C A A A G G A A G G T A A G A A G G C C A A G G A G A A$ AAAAAAGGGGAAGGGGAAAACCAGGACCGGCAAGAGAGAAGA G G G A A A G A A GCC G A G A G G A A G G G A A A G G G A GACACCATAA G G AAAAAAACGGAGAGGGAAAACCAAAAGGAGAAGGAAGGGGAC A A A A G G G A G G A A A G A G G G G G A A G G A G A A G G G A GA G A G G G G C A GAAGAAGAAAAGGGAGGGGGAGGAAGGACCGCGGCCAAAAAA C CAAAACCAAAAGGGGCCAAAAAAAAGGAAGGAGAGAGAGGA
 $C \subset A A A A G A A G C C G A A G A A C C G G A A A A A G A A A C A A A A G G C C G G$ $G G T T A A C C G A G A G G A A G G A A G G A G G G A A G G A A G G A A G G C C C C$ A A G A G A A T A A G G G GAGGAGAGGAAAAAAAAGGGAGCGAGA GA GAGGCAGGAGAAGAAGGGCCAAGACCGAGAACAAAGCGAGGA $A G G G G A G G G G A A A G G G A A A A A G G A G G A A A A A C G G G G A A G G G G$
 AACCAGAGCCAGAGAAGAGAAGAGGGAGAGAGGAGGACGGAA A GAGAAAAAGGAGGAAAACAAAAGGGGGGGAGAGCCGGACAG A GAGAGAAAAAAGGAAGGGGAAAAGGAAGGCAGGAACAAAGG AACCAGGGAGGAGAGGAAAACCGAAAAAAAAGGGCAAAAAAA A A G G G A C A G G G G GAAC G GA A C C G G G GAGGC GAC G G G C C G A G G

 A A G G A A A G G G G GAAAAAAAAGGCAGGGGCCGGGGAACABAAA A A G GAA A GCAAGAAAGAAGGCCAAAAGGGGCCAACCGAAABA GAACGGCCCCGGAAGAAGAGGGAAGAGGAAGAGAAGAAAAAA
 GAAAGGAGGAAACCGGGGGAAAAAAAGGTTAGAAAGGAGAGG G GAAAGGGGGAAGGAAAGCAGGGGGGGGAGGGGGAAAAAAAA G G G G G G A A G G A A GACCAACAGGAAGGAAAAGAAAGGGCACAG A A GAAA A G G G G A A A A A A A A A A A A A GGCCAAGGGAAACAAGA G $A G A G A A G G G G C C G G G G C C G G C C A A G G G G G G A G G G A A G G G G G G$ $C C G G A A G G A C G G A A A G G A G A G G G A C C A G A A A A G G G G A A G G G G$ A A A A A A A A A A G GAAAAAAATGGAAGAA GAAAA GA GAAA GGGG A A A A G A GAA A A A G GAAAGGAGGGGGAAGAGAGGGAGAAAGAA G GAA $A \operatorname{GAAAAAAAGGAAAAGGAAAAGAGGAGAAGGAAAAAGAA}$ $G G C C A A C C G G G G G G G G G G G G G G G G C A A A A A G G C C G A C C A A C C$ G GACGGAAAGGACCGGGAGGAAAGAAGGAACCAAAACCAAAG AAAACCGGGGGAGGAAAGGGGAGGGGGGAAGAAAGGAAAACC AGGCAAGAAAAGGACGGGCACCAAAAGGAGAAAGAGAACCGG G G A C A A C C A A A A G G G G G G G G G G G G C C A C A C A C G G G G A
GAAGGGAAAACAAGGGGAAGGGAAAAAGGAGGGCAGGGGGG A A G G G G G G GAACGAGAGGGAAGGGGGGGACAGAGCCGGAAAA

 A A A A A A A A A A A A G G GAGGCCCCAGAGAGGGGAAACCAGAAAG A A G G G GAGAACCGGACGGAGTAAGAGAGACAAAAAACCAA GA G G G GA GAAAAGGAAAAGGAGAAAAGGGGAAAGGAGGGGAAGAG G G G G A A G G A A A A A A A A A A A GAGGAGGGGGAGAGGAAGAACAG A A GACCGGAGGAGGAAAAGGAGGGGGGGAGCAGGGAAGAACC G GAGGAAGGGACAAAAAGCCCACCAGAAGAGGAAGGCCAAAG

 $G G A A A A A A T T G G A C G G A G A G A G G A A A G G A A C C A A A A A A G G G G$ G G G G GAAAGGGGAAGGCCGGCAACAGGAAAGAGGACGGACGA

GAGACAAAGGGGAAGGAGAAAAAGGAGGGAGGACCAGGAAGG
 G GCCAAGGGGAAAAAAAAAGAAAAGGGACAAGAGGGAACCAA GGCCGGGGAAAGCCAAGGAAAAGAGAGGCCGAAGAACAAGAA CAAAAGGGAAAAAAGAGGGAGGATGGAAACCCAGGGAAGAAA
 A A G G A A A A G G A A A A CAGGCCAAGGAAAGGGAAGAAAGGCGGA $C \subset C C A C C C G G G G A A A A A A G G A A A A G A G G G G A G A T A G C C A A C C$ $G G C C A A A A G G G G G G A A A G G G G G A A A A G G A A A A G G A A A G A A B A$ G G G G G GAAAACAAGGGAGAGGAAAGAGAGGGGAGAGGGATGA ACAACAGAAGCCAAAAAAGGGGAGAAGGGGGGACGGCAAAAG ACAGGGGGGGAGGGAGAAAAAAGGAAAACAAAAGGAAAAGAG A A G G A A GAGGGAAAGGAAGGCCGGACAAGGAAAAAGGAAAAA $G G A C G G A A G G G G G A A A A A A A G G C C A G A G G A A G A G G A A C A B A G$ $C C G A A A A A A A A T A G C A G G G G G A C C C A G G G G C C C C A A C C A A G G$ A G G G G G G G GAGGAAGGGGAAGGAAGAGAAATTACAGAA G GAAA A A A A A G G G G GAGGGCAAAAAAGCCAGAGCAAAAAAAGAAACC C CAAAAAAACGGAGAGAAGGCAAAAAGAAACCGGAGGBAAAA AA $A G G G G G G G G A G A G G G G A A C A A A A A A A A G A G A G A G A A A A A A$ A A A A A A A G GAGGGGAGAAAAGGGGAAGAAACCAA GGGGCCGG A A A A A A A G GAGGGGGAGAGGAGAAGGGGGGGGGGGGAAGAAA G GAAGAAGCCAAAAGGGGTTGGACAAGGAAAACCCCAGAAAA AACCAAGACAAAAGACCCGGAGAACCAGCCACGGGGAAGAAA
 G G G G A A A G A A G G A G G A G G A A A A $\mathcal{A} G G G G G G G G G G G G G A A G G C C$ G G G G A A A A G G A GA $\operatorname{A}$ G G G GAAAAAAAGGAGGAGGAAAAAAAAAA $C \subset G G C C G G G A A A C A C C A C G G G G G G T A G C G G A G G G A A A A G G G G$
 AAAGCCGGAAGGGGAAGAAAGGGGGGAACCGGAAGGAAAAAA G G G GCCGGAAAATTAAAGGAAGGAGGGGGGAAAAGAAAGGGA G G G G C C G G A A A G G G A A G G G G A A G G A A G G G G G G A G A G A A G G G A $A G G A A G G G G A A A G G A A G G G A A G C C A A G G G A A A A G G G A A C C B G$ G GAAACAAAGAAGGAAGGAAAAAAGGGGAAGAGAACGAGGAA GAAGGAAGAGAAAGACAAACGGAAAAAGGGAGAAACGGAGGA A A G A C A $\mathcal{A} A G G G G G G G G G G G G A A G G G G A G G G G G G G C A G G G G G G$
 G G GAACGACAGGGGGCAGCAACGAGAGGCCAAGGGGAGAGAG AAGGAACCAGAACCGGGGTAGAAGCCGGGGGAGGGAGGCAAA G G G G C C G G A G A A A C C A GAGGGGGGAAAAAGCAGAAGGAAGAA GAGACAAAAAGGAAAGGAAGCACAAAAAAGACAAAAAAAAAA $G G C C G A C C A A G G G A A A A A A A G A G A A A A A A G G A A C G G A G G A A A$ A A G G G G A A A G G G C C A G G G G A G G A G G A C C C A G G G A C C G G G A A A AATTAGGCGGGGGGAAGAGAGGCCGGAGAAGGACCACACC GA A A A G A GAAAAA AA $A$ A A ACCGGGGAAAAGGGGGGAAAATAAACC
 A A A A A ACCAAAAAAAAAGGAAAGGAGGGGGAAAGAGAAACAA G GAGGGAAAGGGAAGGGAACGGAGGGGGACAAAACCAGAAGB G GAAAA A A C G G G G G CAGGGGAAGGCCAACCAAAAAGGGGGGG G GACGAAAAAAAAAAAGGAGAAGGAGGGCCATCAGAAAAAAA G G G G G GA G G A A A A A G G A G A A G G A GAACCAGGGAAGGGGAGAA G G G A A A A A A A G G G G G G G G G G G G A A A A G G G A A G A A G G G G A A A $G$ G G GAAAGAAGCCCCGAAAAACCAAAAAAGGAGAGGAGAAAAA G GAGAGCAGGGGAAGGAGGGGGACAACCAGGAGGACGGAAGG AGGGCCCCAGAGGGAACCAAGGAAGGGGGAAAAAGGGAAAGG G GCCGGAAGGGAACAGAGAGACAAAGGGCAAGGGGAGBAAAA $A G G A G G G G G A A G A A G G G G G G C C G G G G G G G G G A G G G A G A G A G A$ GAAGAGGAAAGAGGGGAGGAGGAGGGAAAAGGGAAGGAAAAA GA $\operatorname{G} A A A G G G G A C G G A A A G A G A G A G G G C A A G A A G G G G A A G A A G$ AAACAAAAGAAGGGGGAGACGGAAAAGAAGGGAGGAGGAAGA

GAGGAAAAGAGGAAAAGGAGGGCCGGAAAAAGGGAAGAAAAG A G A G A A C C G G G G G A G A G A G G G A G G A A G G G G A A A A A A $\mathcal{A} G G G G G$ GAAAGGAAGAGGGGCCGAGGAAGGGAGGGGGAAAAAAAAGAA A G G GAAAAGAAAGAGGCCGGGAAGCCGAGGGGAAAAGAAAAA GGCCAGGGAAGGCCGGAAAACAAAAGAAAAGGGGGAAAAAGA $A G C C G G A G A A G A A G A G G G G G A A G G G A A A G G G G G A G G A A G A A G$ A A G A A A A G A A G A A A G G A A CAGGGGCCGGAAGGAAAAAAGGGG $G G A A G G A A G G A A A G G A A G C A G G A G G A G G A A A A A A A A A G A A A A$ G G A A A GAAA A G G GAGGGGCAGGAAAAAAAGCCCACAAGAAAA AAGGAGCCAAAAAAGAAAGAACGGAAAGCAGGAGAAAAAACC A A G GAACAA $A \operatorname{AA} A G G G A G G G A A G G A G G A A G A G A G G A A A A G G G G$
 A A A G A GAACCCAGGGAGGGGGGAGCAAAGGGAGAAAGAGACC A A G G A G A A A A A A A A C C G G G G A A G G C CAAAAA A GAAA A G G G G G GAGGAAGGGGAAGGCCAAAAGGCAAGGGGGAGAAAGAGAAAA G GAA A A G G GATTGGAGAAGGAAAAAGAAAAGAGAAAAAAAAA
 A GAGGAGGACGAACGGAACCGGACGAAGCCGGAAAAGGGAGG G G G G A A T TAGGGCCAGGGGACCAACACCAGAACCAGGGGGCA G GAGAAGGGGAAGGAGACGAAAGGAAGAGGAAGGGAAAGGGG AAAAAACCAAGGGGAAGGAACCGAAAAACCCCAAGGAAAAGA G G G G G G A G A C A GAA A GAAAAGGAGAAGGGGGGGAGAAAAGAG GAGGGGGGGGAAGGAAAAGGGGGGGAAGCCAGAAAACCAGAA A A G A A A G A A A A G A A G G A GAAAAAGAAAAGGGGAGAGGAAGAA GAGGGAGGGGCCGGGAAGGAAAAAGGGGAGAGCCAAGAGGCC G GAGACAGAAGGGGCCAAGGCCAAAGGGGGGGGGGGAAAAAA A G G GAAAAACAAGAGGGGGGGGAAAGGAGAGAACACCAAAAAA A G A G G G G G A G G G A G G G G G A A G G A A G G C C C C A A G A A A G G G G C C $A C G G A A A G A G G G G G C C A A A G A A A A A G G G G G A A G A A G A A G G A C$ GAAAGACAGGAAGGGGGAAAAAGGAAAAGGAGGGGGGGGGGG GAGAAGAGCCAAGGAAGGGGGGGAACAGAAAAGGCCAAGGAG AA $A$ A A GCCAAGAGGGGAAAGGAGGAAACAGAAGGGGGGAGCC
 C C G G G G A A A G G G A A A G G G G G A A G A A G G G A G G G A G A A A A G A G G
 G G G A A GAGAAAAAAAGAGGGGGGGAAAAGGCCCCGGAAAACC C CAAAAGGAAAAGGAAAAAGCCGGAGAAGAAGAAGGGAAAAA GAAAAAGGAAGGACGGGGAAGGGAAAGGAGAACCAAGCAAAC A A G G G A G A $\mathcal{A} G G G A G A A G A G A G G A A G G G G G G G G G G A A A A G A C C$ GAAAAAACGAAGGGAGAGAAGGAACCAGGGGGGGAAAAAGAA GAGGGAAGAAAAGAGAGGAAAAAAGAGGGGCCGGGGCCAGGA G G G G A G A G G A G G C C A G G G A G A G A G A A G G G A G A A A G G A A G G G G AAGGAAAAAACCCCGGCCCCAAGGGGAAAAAAGGAAGGAAGG AAAAGGAAAAAAAAAACCGGAAAAAAGGAAGGCCGGGGAGAT G G A A G A G G A G G A G A G G A A G G G G G A C GA $\mathcal{A} G G G A A A G G C$

 A GA $A \operatorname{G} G A G G G G G G A G G A A C A G G G G A G A G A G A G A A G G G G A A T T$ CAGGAGAAGACAAAGGAAAAAAAAGGAAGACCGGGAGAGAGG GACCGAAAAAGGGGAAGAAAGAAAGGCCAAAAAAAAAGACAA A A A A G G G G G G A A G GAAAAAAAAGGGGGGAACCAAAAGGACAA AAAAGGAAAAAAGGAAAAGGGAAGAAAGAAGGGAGAAAAA GA ATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G GAA A G G G G GAAAAGGAAGGCC G $A \operatorname{A} A G G G G A A G G A A G G G G G G$ G G G G G G G G G GCC C A A G G GAGGAAGAGAGCCGGGGAAAAAAAA A A G G G G G G A A A A A A G GCCGGAAAAAAGGCCGGGGGGAAAGAA
 G G G G C A A G G G G G A A G G G G C C G G G A A A G G G GA A A A G G A A GA C C AAAGGAGGGAGAAGAAAAAGAAAAAAGAGGAAACCGAAAGAA

AAAGACCCAGAGAAAGAGCCAGGAAGGGAAAGGGGAAAAAGA C C G G A A C C A G G G G G A A A A A A A G G G A GAGGGAC G G G GA GA G C C ACGGGGGGAAAAAGCAGGCGAAAAGACAAGAGAAAAAGAAAA $C C G G A A A G G G A A A A G G G G G G A G A C A G C C G G A G G G A G G A A A A G$ A G G G GA A A GAGGGGAAGGACGGCCGACAGGAAAAGGAACAAA G G A C A A G A G G G A G G G G G G A G G G G A C C A G A A C C A G GA G GAAC C C CAACCAGCACCAAGGAAGGAACAGGGGGGACAAGGGGCCGG G GAAGGAAGGCCCCCCGGAAGGGGGGAAAAGAAAAAAAAAGA GAGAAAAGAGACCAAGCCAAGGAAAGGAAGAGGGAAAAGAAA ACAAAAAAGAGGAAAAGGAAGGAAGGGGGGAAGAAAAAAAAA G GAA $A \operatorname{G} G A A A G G A G G A A G G G A A G A G G A A A A A G G G A A A G A A G A$ CAATAGAGAAAGGGAAGGAGGGCCTAAAGGAGCCCCAGAGBA A A A A G GAACCCCGGGGAGAAAAAAGGGGAAAGAGAAAAAGGG $G G A C C C C A G A G A G G A G A A A A A A C C G G A A C C A A A G A A G G G G G A$ G GAAAGAGAGAGGAGGGGAAAAGGAAAGGGAACACAAAAAAA ACGAGGAAACGGGGAGAAGGGGAGACGGGGAGAGAGAACAAA A GAA A A $A$ A A A $\mathcal{A} G G G G G A G A G G A C C G G A A A C G A A G G A G A A A A G$ G G G G A A G G A G A T G A A G A GAGGAAAGGCCGGACAGAAGAAGAG AAAGGAAGACAGAGACAAGGTTAGGAGGAGAAAAAAAAGGGG GAGACAAGGGACGAAACAGGAGCCGGAACCCAGAAAGGGGAA AA $A G A A A A A G A G G G G A A A A A A A G G G G G G G G G G G G A A A G A G A A$ A A A A G GAA A A GCGGAGAGAGGAGGGGAAGGGGGGAAAAAGAG AAGGCCGGGGCCGGAGAATAAAAAGGAAGGGGGGGGAAAAAA G G G G A A G G G G A A G A G G G G A A C C A G A A G G A A A A $G \in G G G G G G G G$ AAGGGGGAAGCCCAGAGGAAAAGGGAAGGGAAGGGGAGGGGA GAAAAGAAGGAGAATACCGGTTAAACAAAGGGAAGGGAAAAA $C \subset A A A A G A G G A A A A G G C C G A A A A A C A G G A G G G G A G A C A A G A G$ G G G A G G G A G G A A A G G G A A G G A A A A A G A G A G A G G G G G G G C C G G A A GACCGGGGAAAAGGGGCCAAGGAAGAGGAACCAACCCCCC G G G G G G A A G GAAAACCCAAGGAGGGGAAAAGGTTAAAACCAA AAGGAAAGAAAAACCCGGAAAAAACAAGATAAAACACCBGAA AGGAAAGGCCGGGACACCCAACAACCAAAGGGCAAAGGAGAA AAAAGGGGAGAAGAAAAGAAGGAAAAGGAACCAAAGGGAAAG C C G GAA $A \operatorname{GAA} \mathrm{~A}$ G A A A A G GAACAAAAGAAGGGACCCCAAAGAG C C G G A GCCAA G GCC G GCCA G G G A A G G G G A A C C A A G G G G G G C C G G G G C A G G A A A A C C A G A G A A A A A A G G A A A A A GAA $\mathcal{A} G G G G G G G$ ACAAGCAGAGAGACATGGGGCCAAGGCCGACAGGAAGAAAGG A A A G A GCA $\mathcal{A} A A A G G G A G G C A A C G G G A G G G G T T G G G G A G G G G G$ G G G A C A A G A A A A G G G G G GCCCCAAAGAAGAGGAGAAGGGGAG A G A A A A C A GAGGCAAGAGGGTTCAAAGAGGCCGCGGCCAAAAA A A A A A A A A GAGGGAACAAGGGGAAGGCCGGACCAGAAACABC GACAACGAAGGCGACCAAGGAGAAAGGAGGGAGAGGGGGGCG AACAGGAGGACAGACAAGGAAGAACCCCAAGGAAAAAAGGAA $C \subset C \subset A A A A A A A A C C G G C G G A A A A G G C C C C G G G G A A A A A A A A$ C C A A A GA $\operatorname{C} G A A \operatorname{A} G A G G C C G G G G G G A A G G A A G G G G A G A A A C A C$ GACGTAGAGGACGGGGGGGGAGGGGGAGGAAGAAAGAAGAAA
 ACGACAGGCAGGAGGAGGAAGGAGGGAAGGAAGAAAGGAGAA G G GACAAGGAGGAGAGAGAGGAAGCAGGTTGGAGCCGAAAAA
 A A G GAA $A$ G AAAAAACAAAAGGAAGGGAAAAAAAAAAAGAGAA GAAAGGAGCCGAGGACAGAAAAGGGAAAAGGGCCGGAAGGCC CAGGAAGGCCAGAAAACCAAAAAAAAAAGACCGAGAAGGGGG A GAAGGGGAGGGGAAGACGACCGGAAAAGGGGGGAAAAAGAG AACGGGAAAAAGAAAAAACCGGGGAAGGGGAAGGACGAAGCC GACCGGAAACAAGGAAAACCCACCGGAAAAGGAAGACCACAA $G G A G G A A A C A G A G G A G G G A A G G G A C C G G G A G G A A A A A A A G G G$
 G GAA A GAGGAGGAAGGAGGGGGGGCCGGGGGGGGGGAAAGGG

AACCGGGGGAAAGAACAAGGAAGGAAGAAGGGGGACGGGGGG GAAGAGAAGACCAACCAGAAAAGGAGCAAAGGGAGGTAACAG A A A G G GAA A G A G GAGGAAGGAAAAGGGAAGGAAAGAAACCAC A G G GAA A G G G G GAAAGGGAGAAGGGGAGCACCGGCAACAGAG AAGGCCGGCCGAGACCAGAGGGAAGAGGCCAAGGGGAGAAGA A A A G G G A CAG G G G G A A A A A C G G A A G G C C G GAAAA A A A G CAA A

 G G G G G A G A C G A A C C G G A G G A G G G G G G G G G G A A C C G G G G A G C A G GAAAAGAAAAAGGGGAAAAAGAAGAAGCCGGGAAAGGGGCC
 G G G G A G A A A A C C A G C C G G G G G A A G G G A C A A GAGGT T G A A G A G
 GA $\operatorname{G} G A A A \operatorname{A} A A A G G G G G G G A A G G G A A G G A A G G G G A A C A A A A G G$ A GAACCGGAAGGCCAAGAGGAGCCGGACGGGGAAAAAAAAAA AAAAAAGGAACCAAGGGGAACCGGAAAAAAAGGAAAGGAACC AAAAGGAAAAGGAGAAAACCGAAAGGAAAAAAAA GACAGA GA GAGAGGGGGAGGAAAGGGAAAAAGGGAAAAAAGAAAACAGGG GAAACCAAGGGGACAAAGAAATGCAAAAAAGGAACGAAGGAC A G C A G G A G G A G A G G G A A A A G T T A G A A G G G A GA G G G G G G G A C A CAAAGGGGGGGGGGAGAAGGGGAAAACCAAGGGGGAAAAGGG G G G GAGGAGAGGAAAAACACGGAAAAGGAGAGAGAGAAAAAA G G A A A GAGAGCCCCGGGAAGAAAAAAAAGGAAGGCCGAGGCC
 A G G G G A G G A A C CAACCCCGAGGAGGAGAGAGGGAGAAGAGAG GAGGAAAAGGGATTAGAAAAGAAGCCGGAAAAAAGGAGCCGG AAAGCACAAGGGTAAGACCCAACCGGAAGGAAGGAAAACCCC A G A T T T A G A A G A G G A A A A G G G C G G A A G G G G C A A A C C G G A A G G C C G G G A GACCGAGGAGAAGGGGAAAACCGGGACCCAAAAAAA AA $A G G G A A G G G G G G A A G G G G A G A A G A A G G G A A C C A A G A A A A A$ GAAGCAAAGGCAAAAAGGGGAAGGGGGGGGAACCAGAAGAAG A G G G GAGACCAAGGGGCCAAAAAAGGAGGACAAAAGAGAAGG

 G GAA $A \operatorname{GAA} A C A A A G A A A G G A A A G G G G G G G G A A A G A A A A G G G G$ GACAAAAGGGGACCGGAGAGCACAGGAAAGGAGGGACAAAGAG G G G G G G G G G G A G A A A A G G A G G G A A GAGGGGGGAGCCAA GAGG AAAAGAACGAGAGAAAAAGAGGAGAGAAGAAGCCAGGAAAAA G G G G A GA G A G A A G A A A A A A A A A G GAAAAAAACCAGAAAAAG G G A GAC A G A A G G G G G G A A A GATGACCAGGGACGAAGCCAGAGCA GAGAAAAAAGGAGGGGGGAAAAAGGGGGAACCAAACAAGGAA G G G GCCCCGAAGAAAAAAGGGGCCAAAAAGGGGGGAAAAAGBG G GAAGGGGGGCCGAGAAAAGAAAAAGAGGGAAAGGAGAAAAG A G G G A G G G A A CA $\operatorname{A}$ G A G G A A A A G G G A GAGGAGGAAAACCACAA GGACAGAAGGCCACAGAAAAAACCAAGGGAGAGAGGG
GAGCCAAAAAGGGAGGGGGACCAAACAGACCGGAAAAAGCC A GAGGGCCAACCGGGGAAAGACAAAAGAGGAAAGAAAAAGAA A A A G G G A G G G G G G G G G G GA $A \operatorname{CA} A G A A A A G A A A G A G A G G G G G A A$
 A GCAGGAGGAAACCAAAAAAAGAAGGCACGGAGACAGGATAG G GAAGGGGAAGGCACAAAAGCCGGCCCAAAGAAAAGAGAAGA A G G G G GAAAAAAAAGGGGAAAAAAAGAAGGGGACGAAAAA GAG A A G G A G A A C A G A A G G G A A A G T T G G A G G G A G A G A A A A A GAAA A G GAAAACAAGGGCAGAGGGAGGGGAAGGGGGACAAAGAAAGG G GAAAAAGAAAGGGGGGGAAGGAAAAAAGAAACCAAGGAGAA GAAACCGGAAGGGGAAAAAGAAGGGGACAAGGGGGGAAAAAA

 AAAAGGGACCAAAGGGGGGGTTAACCAAGGAAAAAACAGAAG

G GAGGGAAAAAGAGAAAAGGGGAAAAGAGGGGAAAACCAAAA

 C C G G GACCAGGGGGAAGAAGGGAAAAGGAAAAAAGGAATXAA AAAAGGCCGGGGGGCCAAAAGGCCGGCAGGAAGAAAGAACAG
 G G G G A A A A A A A A G GAACCGGGGAAAAAAGGGGGGAAAAAAAG G G G GAAAGGGCCAGGAATAAGAAAAAAAGGGACCGGCAAAAA CAAAAAAGAGGGCAAAGGGAAAAGCCAAGGGAGAGGAAGCBG G GAAACGGAGCCCAAAAAGGGGCCAAGGAAAGCCACGGAGAG A G GAGGCCAAAAAAAAGGCCAAGGGGAGGGAGAGGAAAGGCC A A G G A GCCCAGACCGGGAAAGGGGGAGGCCGGGGAGBCAAGA

 G G GAAAAAGGGGAGAAAACCAAAAAACGAGAATAGGGGAAGG A A A A A GAAAA $A$ A A A CAAAA $A A G C G G G A A A A A G G G G G G A G A G A C$ G G G G G G C C G G G G G G A A A G G G G A A A G G GA $\mathcal{A} G G G G G A G C A C A G A$ G G A A G G A A A GAAGAACGGGGAGGGAAAAAACCAAGGAAAA GA $G G C A A G G G G G G G C A G G G A A A G A G G G G G G A A A G A A A G A A A A A T$ A A A G A C A G GAGGAAGGGAAAAAGGCAGGGGCCGAAAGAGGBA A G G G GAGAAAAAAAAAGGGGAAAAAGAAGGAAAGAAGAAAAA GGCCCCAAAGAGAGAAAACCCCGGAACCGAGGTTAAAAGAGAA GAACAGGAGGAACAAACAAGAACAAGGAGGGGAAGGGGAAGAG G GCCGGGGACCAGAAAAAGGAGGGACAGGAAGAAAGAAAAGB A G G G G GA G G G C C G C G A A A A A A G C A G G G G A A A A A A G GA G G G A A G G GAGGGGAGGGAAAAGGCAAGGAGGAACCCCGGACAGAGAA GAGGAAAAAAGAGGCAGGACCAAAGGGAGAGGGAGGGGGGCC G G A A A A A A $\mathcal{A} G G G G G A A A A G G G G C C G G G G A A G G G G A A G G G G G G$
 G G G GAAAACCAAAAAAAAAAGGGGGGCCAACCGGGGGGGGGG G G G G G G A A A A A A G G A A G G C C A A G G A A G GAA $A$ G A A G G C CAA A A G G G GAA $A \operatorname{GCC} C \subset A A A A A A G G G G A A C C A A C C G G G G A A G G G G G G$ AAGGGAGGGACAAAGACCGAACGGGAAAAAAGAGGGAAGGAA A A G G G A A A A A A A A A G G G G G GAGAGAAAGAATTAAAAGAACAA
 GAAACCAAAAGGGAGGAAAAGGGGGGCAGAGGCAGGAAAAGA G GCCAAGGAGGGAAGGGGAAGGAAACAAGGCCGAGAAAGGAA G G G G GAAAAAGGAGAAAAGGGGGGAAGAAAAG
 A A G GAA A GCCCCAAGGGGGGCAGGGAAGGGGGCCBAAAGGAA C CAAAAGGGGAAGAGGGACCGGGGAAGGCCAGAACCGGAGAA A A A C A A G G A A A GA G A A A A G G A A A GAGACGGGGAAA GAA G G G A CA GAAAAAGGAAGGCCAGAGCCGGAGGAGAAACAAGAAAAAA $C \subset A A A C G G A C A A G G G A A A G G G G G A A A G G A G A G C C A G C C G G B A$
 G G G A G A A G GACCGGGAAAAAGGAACCAGAGGGCAGAAAGGAA AAAAGAAAGGGGGAAGAGGAGGAAGGCAGGAAAGAGAGGGGG C C G GAGAACCGAAAAAAAAAAGAAAGAGCCGAGCAGAAAAGA GAGGAACCAGAAACCCAGGGAAGGAGAAGGAAAAGGTTAAAG A A G GA G G A A GAACCAAGGAAAAAACATTCCAGAGACGGAGCA AAAGCAAGAAAGGAAACAGAAAGAAAAAAACAGACCAGAAAA G GAAGGAAAAGAGGGGAAAAAGGGACGGAGGGAAAACCAGAA A A GAACGAACAGCCGGCAGGAAAACCGGGAAAAAGAAGGGGG A GAAAAAAGGAACCGAGAGGAAAAAGCCAGAAAGAAAAGAAG A GAGAAAAGGAAAAGGAGAGAACCAAAGCAGAGAAGGACAAA GAAGGGGGAACCGCGGAGGGGGGGAAGGAAGGCCGGAAAAAA A A A A GACAGGAAGGGGCCAAGGGAAGGGCCGGATGGGAAAGG $G G A A A A C C G A G A A A C C G A G A A G G A A A A A G G C C B A A A G G A G G G$ $G C G A G A A A G G G A A C C C A A A G A A G G A A C C G G G G A A G G G G C C A G$

ACAAGGCCGGAAAAGAGGAAAAAGGAAAGGAGAACAGAGAAA G G A A G G A A A A G G A G G G G A G A G G G G A A G G A A G G A GA G G A A A G C A A G G G A A A GA G G G G A CA A GAGGAAACGGGGTTAAAAAA G GAA G G A A G G G G G G G GAA A G G G G G A A G G G GAA G GAA G GAAAA G G C C G G G GAA $A \operatorname{GT} T \mathrm{~T} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A A C C A A A A A A A A C C A A G G G G$ A A G GAAAAGGAACCGGGAAAAGGGCCAGAAAACCAAAGGAGG GAGAAGGGAACCAAAAAAAACCGGCCAGAGGAGGAAGGAGAA G G G G G G G G GAGGGGGAACGGCACCCAAGAGAAAAGAAAGGAA AACCGCCACAAAAAAGAAAGAAGGAAACAAGACCGGGGGGAG CAAAAAGGAAGAACAAGGAGAAGGGAAAAGAAGGAGGGGGCA A G G G G GAAAGCCGAGAAAAGAAAGGGAGAAAAGGCCAAAGGG A A G A G G A A A A G A G G G G A A T A A C G G G G G G C C G A A G G A A A A A A A G G G A G A A G A G T A A G A G A A G G G G G G A A T T G GCCAA G G G A GA C A A A G G A GAAAAAAGAAAGGGGAAGGAAAAGGTA G GAGGAGGGGG A A GAAA A GCCAAGGGGGGAAAAAACCGGGGAAGAACAGGGGG AACGAGACGGCCAAGGGGCCAGAGCAAGAAGGCCGGACAAAAA GAACCCAGCAGAGAAGAAAAAAAACCAAAAGGGGGGAAAAAG G G G G G G A T A A G G G G G G G G A A G G A A G G G A GAGGAAAAACAAAA GAAAAAAGGAAGAGGGGGAAGGGGAGGGCAAGGGGAGGGGGG G G G G G G A A G GAAAAAAAGGAAAAAAAGAAACGGGCAAGAAAA G G G G G G GAGAGGGGGAACCGGGGAAAAAAGAGGCAAAAACAAA G GAAAGAGGGCCGGGGCCGAAAAAAGGGAGGGGGTAAGABAA $A G C C C A A G A A G G A A C C A A G G G G A G G G A C A A G G G G G G G A A A A A$ A A ACAGAGAGAGAAGAGGAAAACCAAGGGGCCCCGAGAAAAA AAAAGGATCAGAAGAGACAGGGAAACGAAAAAGGCCAGAAAA A G G A G G A G G G G G A A A A G G G G A A A A A C G G G GAA A A A A C C G G G G G GAGAGCGAAAAAAGGGGAAAAAAGGCCGAACAACCAACAAA A A A A A A A A A G GC GAGAGAGGGGAAGGAAAAAACCAAAAGAAA G G A A A A G G G G A G G G A C G A G GAGGGAGAAGGAAGGCCCCAGAA $G G A A A A A G A A C C G G A A A G A A A C G G A G G G A A G G C C A G G G A G G G$ G G A A A GCCAAA GAAGAAGAAAAAAGAGACAAGGAGAACBGAA G G G G A A A A A A A A A C A A C CAGGGGGCCCCAAGAGGCCAA GA G G A A G G GAGAGAACGGCCGAGAAAACAACAGAGGGACCAAAAGG AA $A G G A G G A A A A G G A A A A C A A A G G G G A A G G G A G A A G G A C C G G$ G G A A C A A A A ACCAA G GAACAGAGACCCCGGCCGAGGGGGGAG GAAAAAAAAAAAAGAAAGGGACAGAAAGGGAABAA GAAGGGG AAAGGGCCAACCCCGGCAGGAAGGAAGGGAAGGAAAGGAAAG G G GAAAGAAAGGAAAGCAGAGCAGAAGGAGAAAAGGCCAGAAA A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCGG A A G G A A G G G G A A A A A G A A G G G G C C A A G GAAAAAACC A A A A A G $A C G A A G A A G G A A G A C A G A C C G G G G A A C C A G G G A G G G G G G G G G$ A A A A A A G G G G G G A A G G G GATGGTTAAGGAAAAAAAACACCAG AAGGGGAAAAAGCAGAGAAGAGAGGAACGAAGGACAGAAGAG GAGGAAAGGAGGAAAGGGCCAAGGAGAGGGCCAGGGGAAAGG A A A A A A A ATTAAAAAGCAAAAGGGGGGGAAGGAGAGAGAAGG GAGGGAGGACGAACAAGAGAGAAGAGCCAGGGAAAAGGAACA $G G A A T A G A A G G A G G G G C C G G C A G A G A G G G A A A G G A A G G A A A A$ G GAAAAGGGGGGGAAGCAGGGGAAGGCACCAAAAAAGGGGGG $C \subset A A A A G G A A G G G G A A G A G A C C A A A A A A G G A A G G A C A G G G A A$ G G G G A A G A GAGAAAAAAAAAAACCAAGAGGGGGGAAAAGGAA G GAA A GAAAAAAAAGGAAAACCGGGGCCGGAAGGCCCCGGGG C G GAGAAGGAGAGGGAGGAAGAGGCCAAAAAAAAGGAAAAGAG A A C A A G G A G G A A G G G G A G C C G G A G G G A A A GCC GAC CAA G G G G GATTGGGGAAGGGGCCAAAAGAGAGGGGAAGGGGAGGGGGGG G G A A A A A G GA G GAA $A \operatorname{GAA} A G G A A G G C A G A A A A A A G G A G G G G T T$ G G G G G GAGGAGGGAAAAAGGGGAAAAAACCGGGGGAGGAAAA G G G G G G A A G G G GCC $C$ G G G G G A G G A A A A G G A A C C A A C C A A G G G G G G A A G G G G G G A G A A A A $\mathcal{A} G A G A A G G G G G G G G A A A A A A A G G G C C$ $G G G G C C G G G G G A A A A A G G G G A A G G A A G G A G A A A G A A G G G G G G$

AGAGAGCGGAAAAAAACCAACCGGAGAAAAAAGGGGAAAAAA A A A A A A G G G GAAAAAGAAGAAGGAAAAAGGAAAGAAGAAAAA AAAGGGAAGGAGGGGAGAGAAAAAAGAAGGAGAGAGAAGAAA A GAAAAAGAGGAGGAACCCAAGAAGGAAGAGGAGAAAAGAAT AAAGCCGAGGATAAGGACCGTAGGGGAAGGGAGAAAAGAGAG G G G A G G G G G G A GAA $A \operatorname{G} G A A G G A A A A A A A A G G G A G A G G A A A A G G$ A T GAAAACGGGGCATXGGAAGGCCAGGGAAGGGGGGGGCCGG GGGGAAAAGGAAGGAACCGGAAAAAAAAAAAAGAAGAAGACC AAACAGAAAAGGGGAAAAGGAAAAGAAACCAGATGGGGAGAA AAGAAAGGGGAGGGAAGAGGGAGAAAGGGGAAAAGAGAAACC AACCGGAAAAGGAAGGAAAAGAAAGGACGGACGGCAAAAAGG GAGGGGAAAGGGGAGGTTCCAAGGTAAAGACAGGGAAAAGAG A GAA $A$ AAAAAAGGAAGGCCCCAAAGAGACGGAAAAAAGGGGAG
 G G G GAAAAAAGAAAGGCCGAGGAAAAAGAGAGAAAAAAAACC CAACGAGGGGGGCCCCGGAAGACACACCGGAGGGAAGAAGAA A ACCAAGGAGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG G G G G A A A C G A A C G G G A G G A A A A G A A G CACAGGAAA GAG G GA G AAAAAGAAAGGACCAGAAAGAAAGGAGAAAAAGGGAAACCGG G GAA $A \operatorname{GA} A \operatorname{A} A C A A A A A A G G A A C A G G G G G G G G G G G G G A A A A C C$ GGCCGAAGAAGGAGGGGGCCGGCCAAAAAGGGCCAGGAGAGA A G GAAGGACAGAGAGAAGAGGAGGAGAGGGAAAAAACACAAA C C A A G A A G G G G GCC $C$ G G G G G GAACCAGAAAGAGGGAGGGGGCA G G G G G A A ACCAGAACAAGAAGAAGCCGGCCGAAAAGAAAACC
 GACCAAGGAAGGGGAAGGAGGGGAGGCCGGGGGAAGACAAGG A A G G G G G G G G A A GAGGAAAGACAGCCGGACAGGGGAGGAGAA AA $A G G A G G G G C C G G A A A A C C A A G G G A A A C C G A G A C A G G G A C C$ $A C G G A A G G C A G G A A G G G G A A A C G G G G A G C A A C A G C G A G G G A G$ A GAAAGAGAGAGGGCACCAGGGGAAAGGAAGAAAGGGCAAAA A A A A G G A A G G A A A A $\mathcal{A} G G G G G G G C C T T G G G G A A G A G G G A A G A G$ AAACAAAAAGAACAAAGGGGCAAACCCCCCAAAAAACCGGGG AAACAAGGGGAAAAAAGGGGAACCAAAACCGGGGGGGBAACAC
 A A A A A A G G A A G G A A G G A A G G A A G G G G A A C C G GAACCGG G GAA G G A A A A G G G G G G A A G G G GC C C C G G G GAA A GAAG GAACAAAAA G G GACCGGAGAAAGGGGGAGGGAAGGAAGGGGGGGGGAAAGA $G G C C A A G A G A A A G A A A A A A G A A C C G G A G A A A C A A A G G$
 ACCAAGAAGGACGGGGGGAAGGCGGGAAGGAAAACCCBAGCA $A G A C A G G G A G G G G A G G A A A G G G C C G G A A G G A G A G G A G G A G G G$ G GAGAAAAAGCCAGGACAGAGAAGACGAGAGGCAAAACGGGG G G G G C G A G G G G G G G A A G G G G A C G G A C G G C A A C G G G G G G C C A A G GAGGGAAAAAGCAAAGAGGAAGGAGAAAAGACAAGCAGAGG $A \subset A G A A G G A A A G A G G A A A G G G G A A G G G G A G G G G G G G G G G G G G$ G GCCAAAAGGAAACATCAGATTAGGAATAAGAGGGAAACAAG GAGGGGGGGAAGGGAAGGGGAAAAAAAAGGGGAGCCGGAGGG GAAAGGGGGGCCCCCCAGGAGGAAAAGGAAGGGGGAACAAAG AAGGGGAAACGAGGAAAGCCGGGGCAAAAAAACAGGCCAAAG GAAAAAAAAAGGAGGGGACAAGAAAAAAAGGGGAGAGACCAG G GCCGAAGAGAAGAGAGAGGAGAGAAAAGAGGAGGGGAGAAG A A A A GAGGGGGAGGACGGCCAGGGACGGAGCCAGGGAAGGAA A G G A G G G A G G G G A G C C G A G G A G A G G G A A G G A A A G G A G A A G G A AAGGCCATCCCCAAAAAGGAAGGGAAAAGAAGGGATAAGGGG AAAAGGGAGGAAAGGAGAAAAGAAAGCAGAGGAGGACAGGAA A A A A G A A GCAA $\operatorname{A} A A A A G G G C C G G G A C C G A A G G G A A A A G G A C B A$ G GACCCGAGAAAGACAGAAGGGGAGGGGAAAGGGGGGGAGAA G G G G A GA GAGCCGGGGGGGAAGAGCGACAGAAAAGAGGAAAA AAAGAAGAGAAGGGCAAAAAGGAAAAAAGGAAAGGGGGGGAG

GAGGAAAGAAAAAAGAAGCGCCAAAGGAAAAGGACAAAAGGG A A A G G G A G G A A A C A G A A A G G G G A A G G A A A A A G G G A A A A C C G G G G A A C C A G G G T T A A G G G A G G G A G A G G G G G G A A G G A A G G A A G G A GAGAAAGCGCCGACCAAAAAAAAAAAAAGAACCCCAACAAA GAAGGGGGGAGGGGAAGGAAGGAAGGAAAAGGAGAAAGGGGG A A A G G GCCGGAGGAAGGGAGAAGGAGCGGGAACCAGGGAAGA G G GACAGGAAAGGAAAGGAGCAGGAGAGAAGGGGAGAAAGCC AAAACCAAAAGGGACAAAAAAAGGAAGGAGGGAAGGGGGGGG C CAA $A \operatorname{GAA} \mathrm{~A} C A A A A A G A A G G G G A A A A G A A G A A G G G G G G A A A A$ AGAAGGCCGAAGACCCGGGGAAGGAAAAGGAAAAAAGGAACC GAAAAAAGAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGGCC CA $A \operatorname{GGG} G \operatorname{GA} A A G G A G A A G G G G A A G G G G C C A G A A G A A G A G G G G G$ A A G G G GAACCTTGGCCCCGGGACCAACAGGCAGGGAAAAAAG A A G G A A G A A G A G G A G A G G G G A G G G G A A A G G G G C C G G C G A G A G $C \subset G A C C G G G G G G A G G G G A A G G G G G G G A C G G A A A A G A C C G G G G$ A GCCGGAGAGGGGGAGTTAAAAAAGGGGAAGGAAAACCAAAA AAAAGGAAGGAACAAAAAAGACGCGCAGGAAAGACAAAAAGB
 G G G GAACAAAGGGAGAAAGGAAAGGAGATAAAAAAAAGACAA C C A GAGCCAACCGAAAAGACAAGGAACCGGGGGGGAAAAGCA A A G G GAGGAAAGACGAAAAAGGGGAACCCCAGACCCCCGAAA A G GAAA A A G G T TAA A GAGACGGAAGAAGGAGAAACAGGAGAA A A G A A A G A A G G A A G A G A TAGAAAAAGCCAAAGAGAAAAGGAA A A A G G A G G G A A A A A A G A A A GAGAACCGGAGGAAA G GA G G GAAA CA GAAAGAGGAGAGAAGGACCCGGAAGGCCAAAAAAGAAGGG A A A GAAAAAAAACAGGAAAAAAAAAGGAGACAAAAAGAAA GA A A G GAA A A A A G G G G G G G G G G A A G G A A G G C C GA G G G G G G A A G G C C A GAA A G GACCCCGGGGAAGGAAAACACAAGGGACAAGGAA G G G G A T G GCCGGGGAAAAAAAGAAAAAACGGGAAAAGAGGAA AAGGCCCCGGAAGGGGCCGGAAGGCCGGGAAAGGGGCAAAAG CA $\operatorname{G} G A A A A G G A A A G A G C A G A A G G A A A A A C A G G C C G G G G A A A A$ GACCGGGGGGGGAAAAGGGGGAAAAGCCGAAGACGAAAAAAA A GAACCAAGGGGCCGGAAGGAAAAAGAGGGGAGGAAGAAGGG $A C G G G G A G G G G G A A A A G G T A A G G A A A A A A G A G A A A A G G G G A G$

 AGACGGGAAGAAAAGGAAAAAGAGATAAGGAAGGGGGGAAAA A GCCAAGGAAACGAGGCAGAAGGGGGCCGAGGACTTCCAGAAA G GAGAACAGACGCCAGGGAAAAGGGAAAAAAAGBAAGGAGAT G GAGAAGGAGCAGGCACCAGAAGACCGAAAGGGAGAAAAGEG $A G C C A T A G G A A G A A C C G G A A A A G G G G G G A A G G A A A G A G A A C A$ A A G G G G G G A G G A A A A A GAGGGAAACCGGAAAAGGGGAAAAAA C C A C G A G G A G G G G G G G A G C A G G G G G G A A A G A A G G G G G G G G A A G GCCAAGACCAACCAGGAGGAAGAGGAAGGCCGGAAGAAGCA A A G G A A G A G G C C G G A G A A G GA G TAGGAAGAAGGACC GAA A A A A A G G G G A A G G A G A A A G A A G G G G A A A GCCAAGGGGAGAAAACC A GAGAAGAGACAAATACCGGGGAAGGATCAACACAAGGGGCC A A GAA A G GAGGGAAAAGGTAAAGAAGAAAGGGAGGACAAGAA G GAAAAAACCGGCACAAGGAAAAAGGAAGGAGAACAGGAGAG
 A A A A G G G G G G A G G G G G G G G A A G A G A GAGAAGGAAAAAA A A A $A$ A GAAAAAAAGAGGGAGAGGGGAAAAAGGGAAGGGAGGGAAAT G G A A A T G G A G G G A A G G A A A A A A A A GAA $A$ C C A A A A G G G G C C A A AAGGAACCGGAAAATTAAAAGAATTAACGGAAAAGGGGAAGAG G G G A G A A G G G A A C G A G TACCAGAGACGGAACCGGAAAAAGGG A G A A G A A A G G G G GAAC G GAA A A C CAAAA A A A C GAA G G G G G G G G GAACCAGCAAAAAAGGGAAAAAAGAAAAGAGGGGBAACCGG G GAGC GAAAAAGAACCAAGGGGGGGGGGAAAAGGGGAAAAGB AAAAGGGGGGGGAAGGAAGGAACCAAGGGGAAAAGGTXAAGG

C CAACCAAAAAAAAAAGGAAAAGGGGAAAAAAAACCGGGGGG G G A A A A A A G G G GAA A A G GAAAAGGGGCCAAGGAAAAAATTAA C CAACCGGGGAAAAAAGGAAGGGAAAGGAAAAGGAAGA GAAA AGCCAAGGAAGGGGGGGCCAAGAAGACCAGGGGGAACCGGAG G GAACCGGAAGGAAAAAAAGGGGAAAGGAAGGGGAAGGGGGG G G G G G G A G G A G G T A A A A G A A G G A G C A A G A C A A G G G G C C G G T T G GAGGGACGGGGAACCAACCAAAAAAAAAACCCCTAAGTATT AAAAAAGGCCGGCCGGGGAAGGAAAAAAGGGAAAGGGGAGAG A GAGAAAGGGAAGGAAAACCGGCAGGAAGGAAAAAAGGAAAA G GAGAAAACAGGCAGACCAAGGAGAGGAAAGGAGGGAGAGAA G G G GCCAAGGATGGGAGAAAGGCCGGGGGGGGCCGGAAGACA A A C A C A G G G G G G G G A A GAA A GAAACCAACCGGTTGGAA G GAA G G GAAAAA $A \operatorname{A} A A A C C A A A A A A G G G G A A A A A A G G G G A A G G G A A A$ G GAAGGGACCGGAGGAAGAAAACCCCACGAAATTGGGAGAAA GAAGCAGAAGCAGGGGGAGCAGAGGGAAGGGGCCGGGGAAAG A GCACA $C$ G G $\mathcal{A} A G G G G G G A A G G C C A A G G A A A A A G G G A G A A A C A A$ GAAGGGCCAAAAAAAACCGAAACCGGGGCCGGACAAGACAAG $A G C C G G G G G G G A A G A C G A A G C C A G G G A G G G G G G G A A G A A A G G$ G GAAGGGGGACGAGCCAGGAAACCAGAAAACCAGCCGGGAGA G G A A G A A A A G G GA G A G A G A A A A A G C CAA A A A A G A A A A A A G A G AAAAAAGGCCGGAGGAGGGAAGGGGGAAGGCCAGGGGAAAAA AAGGCCAAAAGAGGACAAAGCCAGGACGGGGGGGAAAAGAAA
 GAGGAAAATTAAGAAACCGGGAAATAGGGAAGCAAAAAGGAA AAAAAACCCCAACAAAGGGAGGAAGAAGGGAACCGGAGAGAA G GACAAGGGACACCGGAAAGACGGCAGAGGAGCCCAAAGGAA AAAAAAAAGGACAGCCAAAAGGCCGGAAGGAGGAAAGGGGAA G GAGGAAGCATAAGAGGAAAGACAAAAACCAAGGAAAAACGG $A G C C A G A G G G A G A G A A G G C C G G G G A A A G A A C C A A A A A A A C A A$ AAAAGAAAAGGGGGCCGGAAAACAGGAAGGGGAATTGAAAAA C C C C G GCC G GAAAAAACCAAAAGGAAAAGGAAAAAAAA GAAA AGAGTTGAAAAAGGGAAAAGGGGAAAGGAGCAGGCCAGGAGA G G G G G G G G A A C C G G A A A C G G C C G G TAA A GAGGCC G GAA G G G A AC G G G A A A A G G GAA A G G G A A A A G GACGGGGAAGGGA GAAA GA GAAAGGGGATAAAAAAAAGAAGGGAGAAAAACTTAAAACCBG A A A A A A A A A A GAGGAGACCCGGTTAGAACAAAAAGGGGCCAG A G GAGAGGAGGGCCAGAAGGGGGGGGGAGAGGAACCAAAATT A A A A A GAA $A$ A $A G A A A G G A G A G G A G A A G G G A T T G G G A A$
A A A G G A A A A C C G G A G G A A A A G G G G G G G GACCGGGGAAC C G A G GCCAAAACCAACCAAGGGGCAGGAAAACACAGAGGGGAAGG $G G G A G G G A G A C C G G A A G G A A G G A A A G A A A A A A G G A A G A A A G G$ A GACCAGGAGAAAAAGAAGAGGCCAAAAGGACGGAAAATTGG1 AGGGAAGGAAAAAACCGGAACCAAGGGGGGCCAGGACCAAT T AAAACCGGAAAGAAAAGGAACCAAAAGAGGAGAGGGAGCCGG G G G A G A G G G A A A A G C A G G G G A A A A $\mathcal{A} G G G G G G A A A G G G G G G G A$ G GCCCAAGAGAAAACCCCGGGGACGGGGAGAGGAGGGGAGAA GACAGGAAGAAGGAAGCAAGGAGGACGGGGGGTTAAGGAAAG A G G GCGAAGGGAAAAAGAGGACAAGGGGGGGGAAGAAAGGAA G GAGCCAGCAAGGGGGAAAGACAAGGGGAGAAGAGGGGAGAG GACGAACAAGGGCAAAGGAAAAGAGGACGGAAAAGGGGAAAG GAGGGGAAAGGGCCGGGGCAGAAGAGAAAAAAAAAAAAAGAG A G GAGGAACAAGGGGCAGGGAAGGGGAAGGGGAGAAAACCAC A A G G A G G A G G G G C C A A A G T T G A A A G GAATAA $A$ T T T C C G G A A G G A G G GAA G GCCAGAACGAGAAAGGGAAGAAAAAGAGAGGGGCC
 A A G G A A A G A A G G A A G A A A G GAA $A \operatorname{AGGGGGGGGGACTTGAGGAG}$ G G G G G GAA $A \operatorname{GGGAAACCGGAGGGCCGGAACCAGGAGAGAAAGA}$ A A A A G GCCAAAACCGAGAGAAAGGAAATCCAAGBAAGGAACC G G G G A G G A C C G G GAGGGGCCAAGGGAGGGGAAAAGAAAGGAC

T TAAAGGAAGGGGGGGGGGGAAGGAAGGGAACAAGAAGAAGA GAACCCGGCAGGGGGAGAGGGGCAAAGAAACAAGAAAAAAAA
 GAGAGAAGGGGAAGAACCAAGGGAAAGGGGAAACGGCCGGGG AA $A \operatorname{GGGA} A A A A C A A C C G A G A G G G G A C G G G G G G G G C C C C A A G A$ C CAAA $A \subset C A A A A G G A A A A A G A C A A A A G G A A A A C C G G G G G G G G$ A A A A G G G G G G A A G G G G A A A G A A A G G G G A G A A G G G A G G G A G G G GAGGGAGGACGAGCGGGGGGGGGGGGCCAAAGGGGGGGGGGC A A A G A A A A A A G A A A A G G A A A A A A G G G A G CA GAACCCCC G GAA CAAAAAGGGGAAAAAGGGGAGGCAAGAGAGGAGGGACCAGGA C C A GAGGGGAGAAGAGAAAAGGAAAAGGGGAAAAAA GAGGGGG G GCCAAGGAAGGGGGGGAGAGGAGAGAAAGAAGAGGAAAAAA AAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGCAAAAGCC GA $A \operatorname{GGG} \operatorname{GA} A G G G G C A A A A A G G G G G G A A G G A G A G A A A A G G A A A A$ $C C G A A A A A A A G A G G C C A G G A A A A G G G C C G G A A A A A A G G A A G G$ G GAACCAAGGAAGGGGAAGGAACCGGAAGGCCAAGGGGAGAA A A G G G G G GCC $C$ G G G GCCA A G G G G G G G G G G C C G G G G A A A A A A G G G G G G G G G G G G G G G G G G G G A C G A G A A A A A GAAAAA A A GAAC A A AAAAAAGGGAAGGGGGACACAGGAGAGGAAAGACGAGACCAA A G G G A A C C A G C C A G G G GAGAGGCCAGGAGGACAA GAGAAA GA $C C G G A G G G A G G A G A A A A G T T G G A A G A A G G A A A A G A C A A G G A A$ AAAGGGCCCCGGAAAAGGAAGGAGGGAAGGAACCAAAAAAAG GAGGAGAAGAGAGGGGGGAGAAAGAGAGAAGGAGAGGBAABG

 AAAA A A G G GAAAGGGAAGAAGGAAGAAGAAAAAAAAAAAAGG G G G G G G G G A A A A A A A A A A G G G GAA $A \operatorname{GGGGGAAAAACCGGCCC}$ A A A A A A G G G G A A G G A A A A G G G G A A A A A A A A A GGGGGAAC CAA AAAAGGGGAAGGGGCCAAAAGGAAAAAAAAAAAAAAAACCBG A A G G A A G G G G G G G G G G G G G G A A G G A G G G CAA A C G A G G G C CA A A A C C A A G G A A G G A A A A G G G A A A A G A A C C A A G GCCAAAAAAAA ACAAAGAAAAAAGAGGAAGGAGGGGGGAGAGGGAAAGAAGGG G GAACCAGACGAAGCCGGCCAGGAAGAAGGAGAAGAAAAGAA A G G G GACCAAAGAGAAGAAACCAAAAGGGGAGGAAAAGAGAC A A A A A A G A A A A A G GAA $A \operatorname{GAAGGGACCCGGGAAAGGGGAGAAGB}$

 G GAGGGACAGCAAGAAACAAAAGGAACCAAGAAAGGAGGGAA G G G G G A C A GACCACGGAAAGGGGGAAAAAAACATAAABCCAA
 GAGAGGGGAAGGAAAAAAGGAAGGGGGGGGGGGGGGAAAAGA A A A A A G G G G G G A A A C CA A A GAGTACCGAAAAAACAGGGAA GA A A A A A A A A G GAAGAAAAGAGAACCGAGAAAGGCAAGAAAAGA G G G G A GAA $A \operatorname{GAA} A G A A A A A A G A A G C G C A A G A G G A G A G A G A A A$ A GAGATAGGAGAAAAGAACAGGGGGGGAATGACCAACCGCCC
 C C A A A A G G G G A A G G A A G A A G G G A A A G A G A A G G A A G G A A A A G G AAAAAAAACCGGGAACGGAAAACCAAAAAGACACGCGACCAG A GAAAAAAAAGAGGGGCCGAACAAAGAAGGGAGAGGAAAGAA $A G C C G G A A G G G G G A G C G G G G G A A A A G C A G A A A G G A A A A A G A A$ A G GAGGGAAGAAAAAAAAAGAAAAGGACCCAAGGAGGGAGAA $A G C G A A G G G G G G C C A G G A A A A G G G C G A A A A G G A A C C G G A G G G$
 GAGAAAAGGGAGGGGGGGAAGGGGGGGGGAAAGGCAAAAGAA G GAA $A$ A A $A \operatorname{GAA} A A G G A G G G G A G G A G G G G A A A A A A A A A G A A G G$ GAAGGAGGGCGGAGGGGAGACCAAGGAAGAGAAGGACCAAGAG

 $A G G G A C A A C A C C G G A A A G G G A A G G A A A A G G A A C C G G A A G G A A$

G GAAAAGGAAGGGGAAAAGGAAGGAGGAGGGGGGCCCAAAAG $A G C A G G G G G G G G A A G G A G A G G G G G G G A A G G A G C C G A A A G G C C$ $G G A A G G A A G G A A A G G A A G G A G G G G G G G G A G A A A C G A A A G G A A$ G GAA $A \operatorname{GA} A G G G G G G G G A G A G A T A A G G G A A A C C A A G G C A G G G G$ GAGGGGAAAGAAAGCAGACAAGGAAAGGAAAAAAG GAAACTT GAATGGAAGGAAAAAAAGAAGGAAAAGGGGGGGGAGGGAAGA A A G G G G G G G G G G A A C A A A G A A GAA A G G G C CA $A$ A A A C C G G G G T T CAGGGGAAAACCAAAACCAGGGGGAAAAAAGGCAGGAAAAAA
 GGCAAAAAGGGAAACCCAAGGGGAATAACCAAACGGAAACBG A A GAA A A GAGCAGGGGCCAAGGAACCGGGGGGGGAAAAGGCC G G G G A A A A C C G G G A GAGGGGGGAGGAGGGAGATTGGGAAA GA G G GAAAAGGGAGGAAAAGGGAAAGAAAAAGGGGCCCAAACAA GAAGAGCAAGAGGGAAAGGAAAAAAATAAGGAACGGGAAAAC ACAACCAAGGAAAAGAAACCGGGGGGGGAGAAGGAAGGGGGC A GCCGGCAAACCAGAAGGAAAAGGGGAAGAGGAGAAAA G GAAA GAGGGGGAGGGAAGAGAGGAACAAGGAAAAAAGGAAGGCCBG A A G G G A A G G A A GCCAGAAGGAAGGTTAAAAGGGGCCGAAGAG CAGGAGGGAAAAGAAACCGGAAGGAAAGAAAGGGAGAAAACC
 AAGGAAGGGGAAGGGAAGAAGGAAGGACAGAGAGCCGGAGGG AACCCCCAAAGGAAGAGGAACCGGAAAAAGGGAGGGAAGGGG A A G G A A A A A A A A A A G G G G G G G G G G G G G G A A C C A A G G C A G G G G ACGAAAGGCCGGAAGGAAAAAAACCAAGGGAAAA GAAAGGGG T TAA $A \operatorname{GAA} C A A A A A A A A A A A A A G G A A G G G G G G G G A A G G G G G A$ C CAA $A \operatorname{GAA} C A G G G A G A T T A C A C G A G G G G G G G G A A G G G G A G G A$ $C C G G A A C C C C A A A C G G A G A A C C A A G G A A G G A A G G G G G G G A A A$ C CAAAAAAAAGGAAAAAAGGGGAAAAAAGGGGGGAAGGAGAA
 AAAACCCAAGACGAAAAAGGAGCCAGAGACAAGGCCGGAGAA C C A A G G G G A A G G C A G A GATAGAAAGGAAGGGGAAA GAGACAA AACCGGAGGGGGAAGGGGAAGGGGGGGGAAAATTAGAAGAGG AAAAGGAAGGGGGGAAGAAGAACCAAAAGGGAGAGGACAAGG $A G G G A A G G G G A G A A A A G A A G G G C C A A G G G A G A A A A G G A A A A G$ GAGAAAAAAAGGAACCCCGAAACCAAGGAGGAAGAGGAAAAG A A A G A GA $\operatorname{A} G A \operatorname{A} A A A A A A G G G G G G A A C C G G C A A G C G A A G G G G G G$ G GAACCGGGAGGGGAAGAGGCCAAAAACAGCCCCGAAAGAAG GAAGGGTAACGGATACGGACAAGGGGAGAAAAGGGGA
A A A A G A G A A G A A A C C G GAAGGGGAAGGGGAAAAGGGGAAAA AA G G A A A A A A A A C C G G A A G G A GAAAAGGGAAGGGAAA GAAA G G GAAGGAAAGAGGGAAGAGAGAAGGGAGGGACAAAAGAAGAG A GCAAAAAAAGGAAGGGGGAGCCCAGGAAGAAGAAACAAAA AAGGGATTGAAAGGAAGGGGAAAAGAGGCCAGAGAAAAAAGA $A A G G G G A A G G G G G G G G A G A G A G A C G A G G G G A G G A G G A G A C G G$
 A GAGCCAAGGGACCGGAGAACAAGGAAAACCCBAAGGAGAAA A A A C G A G A G G A A A A G G G G G G A A G G G G G G A A G G G G G G C C G G A A G GCCAAGGAAAAGGGGAAGGGGCCAAAAAACCCCGGAAAGAA
 G G A A G G A A A A GAGAGGAAGGGAGAGGAAAGGAAA GAAACGA G GAGAGAACAGAAAGCAAGAAGGAAAGGGGGAGAGCCGGGGGG CCAGAAGGAACAAAAAGGGGGAAAGGGGAAAAGAAAGAAA GA $A C A C A C G G G G G G T T G G A A G G G G A A G G G G A A G G A G G G G G G G C C$ G GAGGGCCGGGGGGGGAAAACCGGAAAACCAAAAAGGGAAAA GAAAGGGAGGCAAACCGGAAAAAGGGAGGGAGAAGGGAAAGA G GCCACAGGAAAGGGAAGGAGAGGACCAGGAGACAGAAAGAG
 C CAGAGAGAACCGGAATTAAAAGGGGGGCCGGAAGAAAGGAG GGGGAAAACCCCAAGGAAGGAAGGGGGGGGAAAACAAAGGGG

AACCGGGGAACCGGAAGGGGCCGGGGAAGGGGGGAAAACAAA G G G G G G G GCCAACC G GCCAAGGAAAACC G G G G G G G G G G G G G G CCCCCCAAAAAAAAGGAAGGGGGGAAGGCCAAAAGAAAAAGAG G GAAAAGGAACCAAGGAAAAGGAAGGGGGGGGCAAAGGGGGG G G G GAAAAACGGGGGGAAAACCAAAAGGAAAAGGAAAACCBG
 G G G G A A G G A G G G A A G G A A A A A A C C G G G G G G G G A G A A G G G G G G GAGGGGGAAAGAAGAAGAAAGAGAGGGGCAGGACAGGGGGGG GGAAGACCAGAAAAACGAGAGGGAACAGAAGAGAGAABAGGG $C \subset A A G G A G G G A A C C G A A A G G A A G G G A G A G A G G G G A A G G G G A G$ G G G GAGAGATAGAGCCAAGAGGGACCAAAAAGGGCAGACCAG G G A A A G G G G GAA $A$ A A A $C \subset G G G G A A G G C A G G G G T A A A G G G A A A$ A GAG $A \subset G A G G G G A G G G A C A G A A G G A A G G C A G G A A A C A C A G A G$ A GAGGACCGGCCGGGAGGGGAAGGAGAGGGGGAAAGGGGGTA A G GAGAAGAAAAAAGAGGGGGAAGAAGGAAAAAAG GAAAAT T GGCCAAAAGGAAGGAAAAGGAAGGAAAAGGGGAAAACCGGGG AAAAGGAAGAAAAGGGGGCCAAGGCCAAGAGAAGGGAAAAGG GAACGGAGGGGGAAGGGGCCAAAAAAAAAAGGAAGGCCAAAA $C \subset A A G G C C G G A A A A G G A A G A A A G G G G G A G G A A A A C C G G G G G G$ G GGGAAACAAGACCGAAAAGAAAGCCGGCAGGGAAAAAAAAA G G G GAAAGAAGGAAAAACGGAGAAAAGGCCCCAAGCAAGGAC GAGAGGAAAAGGAGGGAGAGAGAGAAACGCAAAAAAGGGGAG C CAGAAAAGAGGTAAAAAGGGGGGACAAGGGGAAGGGAAGAA TA $A$ A $G A A A C A A A C G G G G G G G C A G G G A G A C C A G A A A A G G G G G G$ A A GGCAGGCCAAAACCAAGAACAACAAAAGGAGGGGGGAA G G G GAGGGAAACAAGAGGAAAAGAAAGACAAGGGGGAGAGAACA GGCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAAAAAA AAGGAAAAGGCGGGCACCAGAAGGAGGGAAGGGGGGCCAAAG ACGAGGGAGACCACGACCCCAAAAGAAGAAAACCAAGGAAAA GAAAAAAAGGGGAGGGACCCCAAAGAAGGGGGGGAAAAAAAG A G A A G G G G G G G G G G A A G A T T G G G G A A C C A A A A GA G G CA GAC C AAGGGAAGGGGGAATTAAAAAAGGAAAACCAGGGCCCCAAAA ACGGAAGGAAAAAGGGGAAGAGCCAGAGCATTAAAAAACCGG A A C A A A A G G G A A G G A G A A $\mathcal{A} G G G A G G G G G C C G G A A G A G A A A G G$
 C C GAGGCCCCGGAAAACCAAGGGGGGAAGGGGAGGGGGAAGA A A G GAA $A \operatorname{A} A G G G G C A G G G G G A A G G G G G A C C A A G G A G C C G G G G$ G GAAGACAAAGGGGCCAAGGGGGATAAACCAGCAAAAGAAGA GAAAAGGGCAAGGGCACACCAAAAAAGGAGAGGGAAAAACAC C C A A C A A A G G A A GA $\operatorname{A} G A A G G G G A A A A G G G G G G G A A A C A A A A C$ CAGGACGGGAGACCAGAGACCAGGGAAGACGGAAAAGAAAGAG A A G GCCGGAACCGGGGAAAACCGGGGGGGCAGAAGACCXAAA AAAAAAGGGGAGAGAAAGAAGAGGAAGGAAAAGGAACAAAAA G G G GACAACCAGAAGGAAAGGAGGAGAAAAGGGGAAGAGGAC G G A A G A A G A A A A G A G GCAACAGCCGGAGGAATCAAACAAGCC A G GA $\operatorname{G} G A \operatorname{ACC} C A G G G G A C G A T A A G G A G A C C A A A A G G C C G G G G$ A A A A A ACCAGAAAAAGGGAAAAAAGGGGACAGAGGGGGACBG AAAA A A A A G GAAGGGGGGAAAAAAAAGGGAGGGGGGAAAAAA GGGGAAAGCCAAAACCAAAAAAACGCGGCCGAAGAAAAAAAG G GAAAAGGGACCACAAGGGAAGAAAACCAAGGGAGAGAAAGG A G A A A T G G GAACGGGGGGAACCGGGGGAAGAGCCACAGAACA GAAAGAACAGGGAGGGAAGGGGACGGGGGACCAGGACCAAGA AAAA A GAA $A \operatorname{AGGGA} G C G A A A A G A G G A A A A G G G G A G A A G G A G A A$ AACCAAAGAAAAGAAAAGCAAGAAGAAACCGGGAAAGGCCGA AAAGCCAAACAGGAAGAGAGAGAGAACCAAAAAAAAGAATAG G GAAGAGGAAAAAAAAAAGGGAGGAAGAAGAAAAGGBACCAG A G G G C A A T A G A G G G G G A GAA A A A CACAGGGACAACCGGTA G G $G G A A G A A G G G G C A G G G A G A A G A G A G G A G G A A A A G A G A A G A A A$ GGGGGAACAAAGGGGAAAAAGGGGCCAAAACAGGAAAGGGGA

AAGGAGAAAATTGGAAAAAAAAAACCAAGGGGAAAACCAAGG A A A A G G G G G G G G G G C C G G A G G A G G G A A G A A G G G G A A C C A G G G A G G G A A A G A G GACAGAGGGGAGAAGGAAACAGAAAGTXAAAG G GAAAAGGGGGGGGAAAGAGAACCAACCAGAAAGGGCCCCGG G G G GAGGAAACCGGGGAGAGAAGGGGCCGGGAGAGGAGAAAA A A G GAAAAGGGAGGGGAGAGGGCAGGAACCAACAGGGACAGG A GAA A G G G A A G GAAAAAGAGGGGGAAAAAAGAAAGAAAAA GA $G G A A A A T T A A G G A A G G A A G G A A A A A G A A A A G G A G A G A T G G A A$
 G G A GAGGGGAAAGGCAAGAAAACGGACCGAAAAAAAAAACCC $C \subset G G C A G G A G A A G G G G T T G G A A A A A A G G G G C C G G A A C C G G G G$ G GAACGAAGGAGGGAGAAACAAAAGGGGGGCCGAGGGGCCGG A A A A A A GAGGGACCGGGGAAGGAAAGGGGAAAGAAGGAAA G G $G G G G C C G G A A G A G C G A G G C G G G G A A G G A C C G G G G G A G G A A G G$ G G G GCAAGAAGGAAGGGAGGAGACACGAAACCAAGAGAAAAG GACCGGGACCGGACCCGGGGGGAAAGGGCCCCCCAGGGACAG A GAGAAACAAAAAGGAGAAGAAGGAGGGAAAAGGAGAAGAAG GAGAGATTGGAGCGGAGAAGGACGGACAAGAGCCGGGAAAGA AAAAGGCAGAAGAGGGAACGAGGGGGGAGGAAAAGGGGAAAG GA $A \operatorname{GG} \operatorname{GA} A A A A C C A A A A G A G G G G G G C C G G A A G G A A A A G A G G A G$ G G G G GAAGGAAAAACCGGGGGAGAGAGAGGAGGGGAAAAAAA G GAA A GACAAGGGGCAAAAAGGAGGGAAAGGAAGAGGAAAAAA G G G G G GCC G G A A G G A A G GAGGAAGGGGGGGCAGAAA GACAAC G GAAAGAAAGCCAGAGAAGAGGTTAGGGGGGGAAGGCAAGAG GAAAAGCCGGAAAACCCCGGAACCGGGGAAAAGGGGAAAGAA GAAGACGGGACAAGGGGGGAGGAGCCAAAAGAGAAAAAGAGA AACAAAGGGGGGGGCAAAGGGGGGGGAAAAAAGGCCGAAACAC T T G G G GCA C G G A A A G G GCGGACAAAAGGCCAAAACCGGGGCC
 G G G GCCGGAAAGGGGGAGAGAACAGGCCAAGGAGAGGGAAGB C C A A G G A A A A G GAGGAGGCAAAAAAAGGGGCAAAAAAA GAAA ACGGGGAAGGAAAACCGGGGGGAAAGCAGGAAAAAAAAGGAA A A G G G GAA A G G GAAAAAAGAAAGGGACAGAAGAA GAAAAGAA GAGGAAGAAAAAGGGGGGGGAGCCAAAACAAAAAGGGGAAGAG C C GGCAAACCAAAAGGGAAGGAAGGGGGAATTGGGGCAGACA GACCAAAACCAAAAAATACACAAACCAAGGGGAAGGAAAAAA GACCAAGGAAAGGGAGAAGGGGCCCCGGCCGGAAAAAACAAA GACCAACCAAAAAAGGGGCCCCGAGGCCGGGACCGGA
GAA A G A A A GACCA $\mathcal{A} A A A A A A G G G G G G G G A G G G A A A A G G A A G G$ G G G G G G G G A G G A G G G G C C A G A C A G G GAGGAGGAA G GAAAA A G $A C C A C A G A G A G G G G G G A C A A G G G G C C A G A G G G G G A A A G C C G G$ A A A A A A A A GAGCGGAAAGAGAGACAAGGAGAAAGBACACCCC A A GAGAGGGAAGAGGGGGGGGGGGGGCCGGAGGGAAAAACAA C C G G G GCCGGGGAAAAAAGGGGACGGGAGGGGGGCAGAGAGG A A G G G G A A G GCAAAGAAAGGCCGGGACCAGGGAAAGAAAAAA G G A A G G G G C A A A A A A A $\mathcal{A} A G G G G G G G G G G G G A G G A C A G A A A C A$ AAGAAAGGCCGGCCAGGGCCGGAACAGAAAACGAAGGGAGAA AAGGCCAAAAGGAAAGGAAAAAAGAAGGGGAAAAAAAAAAAA AAGGGAAGGAAATTAAAACAAAAGCAAAAAGGAGAAAAAAAG AACCGGGGAAAACAAGAAGGGAGAAGAGCCATGACCCAGACC A A G G G GAAAAAAAAAGGGAGAGGACAGGAAGAGAAGGAGGAA
 A A G G GCGGGAAAAAAAGGGGAAGAGACAGGCCAAAAAAAAAA C C G GACGGGGAAGGGGGGAAAAAAGGGGCCAAAAAAAAGGAA $G G A A A A A A A A G G A A G G C C G G A A G G G G G G G G A A G G A A G G G G G G$
 AAAAGGAAAAAAGGAAAAGGAAAAAAAAAAAAAAGGGAAA G G $A$ A A A A G G A A G G G GAA A GAA G GCCAAAAAGGGGAAAAGGGGAAAA A A A G G G G G A A G G G G A GAATTGGAAGAGGGGAAGAAACAGAGA

GAGGAGACGGGAGAGGGAACGACGAGGAAGCCGGCCAAAGAA $G G A G A A A G G G A A C C A A G G A G G G G G G G A A A A A A A A G G G G A G A A$ G G G G G G G G G G G G A A $\operatorname{G} G \mathrm{G}$ GAAAAACGGGAGAGGGGGGGAAAAAA G G G G GA A A GAGACCAAAAGAAAGGCCGGAACAAAGGGGAAAA G GAGAGGGAAGGAGGGGGGGAAAGGGAAAGCCAAGGGGGAGG G G G G A G G A G G A G G G A G A A A A G G G G G G G G A A A A G A GACAAA $\mathcal{A} G$ G G G G G G T T GAGGC CAGGAAAGAGGGGGGCCGGAGGAGAAAAA G G G GAACAAGGGAACACAGAAAAAAAGGAACAAAGCGGAGAA $C \subset G G C C G G A G A A G G A G G G G G C C A G G A G G A A G G C C C C A A A A C C$ AAAAGGGGAAGGAAGGAAGGAAAAAAAAGGAAGGCCGGACCC G G GA $A \subset A G G G A A A C C G G G G G T A A A C G G G G G A A G G G G G G C A A A$ G G G G G A G G G G G G A A A A A A G G G G A G G G A A A A A GAC CA G GA GA A GAAGCCAAGGGAGGCCGGAAAGAAACGGAAAACCAAAGAAAA C C G G C C A A C C A A C C G G A A A A A A A GACAA GA GAAAA G G G C C G G G G G G G G G G T T A A C C A A G GA $A \operatorname{GGGGGGGGGGGGGGAAAAAAT}$ GAAGAGAAAAAAAGGGAGAGAAAAGGCAAAAAGGGGAAAACC A A A GAAAAAAAAGGCCGGAAAAAAAAAAGGGGGGGGGAAACAC G G A A G A A G G GCC $C$ G G G G G G G G G A A G G C C A G A C G G G A A G G G G A A A GAG $\mathrm{A} G \mathrm{G}$ GAGGGAAGGAAGAGGAAAAGGGGGGAAAAAATXAA
 CACAAAAAGAGGGGGGAAGGAAAAAAGGAAAAAAAAAAAAAA G G G GAA A G G G G GCCAAAAGGAAAAGGGGGGGGAAAAAACAAA A A G G G GAAAACCGGAAGGGGCCGGAAGGGGAAAA GGGGGGTT A A G G G GAAAA A GAA A GCCAAAACCCCAAGGAAAA GGGAAA G G GACCGGAAGGAGCCGAAGAACCGGGGAGAGAAGGCCGGAGGG G GA A GAGGAGCCGCGGGGACAAGGGGAAAGAAGAAAGGGACC $C \subset A A C G G A G G G A A C A G G G A G G G G G A A A G A G A A A G A A A G G A A A$ G G G A A G G A A GAACCGACCGGAGAGGGAAGAGGCACACAAAAC CCGGGGGAGAAAGGCCAAAAAAAAAGCAAGGAGAGAAGAACA CAGAAAGGGACCCCGGAGGGAAGAAGAGGGGGAGAGCCAAAG A G A G G G A A G G G G G G G G A A G G A G G C G G G G A G G G C C G G C C A A A A GGAAAAAGGAAAGGAAGGAGAGAGCCGGAAAGGGCCGAAAGG A A G GAA A A G GAAGAGGCCAAGGAACCGGAACCGGGAGAAAGA A G GAGAAAGAAGGGGAACGAAAAAGAAACCAAAGCCGGCCAA AA $A G A G G A A A G A A A A G C C G G A G A A A A A A G G G G C G G G A A C C A A$ A A A A A A G G G A GAG GAGACAAAAGAGGGGAAAAAGGACAAAAA G G G GAA $A$ GAAAAAACAAACCGAGAAAGGAAGGGAAAGAAACAC $C \subset A A G G G G A G G G A A A C G G A A G G A A G G G G G A A C C C G G G G A G G A$ A A G A G G A G G G G G A A G A A A $\mathcal{A} G G G G A G G A A G G C C A A G G A G G G A G$
 G GAAAACCAAGGCCGGGGAAAAGGCCCCGGCCCGGAAAAGG G G A A C C A A G G A A G G G G G G G G G G A A A A C C G G A A G G G G G G A A A A A A A A A A A A A A A A G GAAAAAAGGCCAAGGGGGGGGAACAAAAG G GAGAAAAAAAGAGTAAAGAGAAAATAAAAAACCGGCAAAAG A GAGTAACAGGAGAGAAAGGAGGACGGGGGGAAGGAAAACAT GAAAGGGGAAAAGGAGTAGGAACCAAGGAAGACCAAGAAAGB G G G G A A G G A A G G G G A A G G C C G G G G G G A A A A G G A A A A A A G G A A A A G GAA A G G GAAAA $A \operatorname{A} G \mathrm{G} G A A A A A A A A A G G G G A A G G G G G G G G G G$ G GAA A G G GAAAAGGGGGGGGAAAAGGAAAAGGGGGGCAAACAC G GAA A GCCAAGGGGAAAAGGGGAAAAGGAAAAAAGAAAAA G G $A$ G G G G G G G G G GCCAAGGCCGGAAGGAAAAGGAAAAGAAAAAAA
 G G A A C A G A GAAAAGCCGGAGACAAGGCCAGAAAAGGCCACAG GAGGGAAGGGGGAGGAAGGAAGAAGGACAGAGGGCGAGAGAG A A G G T TA $\mathrm{T} G \mathrm{G} G \mathrm{G}$ GAGGGGAAGACCAAAAGGAAAAAACCGGGG G G G G A A A A A A C C G GAA $A \operatorname{G} G A A A A G G G G G G G G G G G G G G G B A A G G$ A A A A G G G A A G GAAACCAGGGAAAAAAAAGGAAGCAGAGAAAA G GAAGGCCAAAAAAAAAAAAAAGGGGCCGAAAAAAAGGACAA G GAACAGGAGAGGGGGGGAGGGGACCCCGGGGAAGGAGAAGA

G GAGGGGACCAGGAGAGGAAAAAAAGGAAGGGCACCCC GAAA
 AC GAGAAAAAGAGACCGAAGGGAAGAGAAAGGCCCCTTAAGA A ACCGAGGAAGGCAGAAGGAAAAAGGGGAAAAAAGAGGAGGA GACAAAAAGGGGGGGGAAAAGGAAAAGAGGAAAAAGAAATCC AC G G A GAACAACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA
 A G G GAGGAAAGAAGGGGGAAAAGGAAAAAAGGAACCGGAGAG A A A A A A A A A A G G G G A A A A G A G G G G A G G GA G G C A T C C G G A A G G AAAGCAGACCCCAGGGGGGAGGGGCCAACCAAGGGGGGAGGA A GAA $A \operatorname{GAA} \operatorname{A} G \mathrm{G} G A A A A A A A G A G A G A A G G G C A A A G G G G G G A A G G$ T T A A A A C A G A A A A GAAAAGGCCGAGAAGACAGAA G GAACC G G G G G A A A G GCCAA $\mathcal{A} G G G A A G G G A C C A G A C G G A A G G C C A A C C G G$ G G G A A G G G C C G A G G G G G G G G G G G A C C G G G G G G G A G G A G C C A A
 G GACAGGGAAGGGAGGGAAGAGAGGGGGGGGAAAA$G G G G G G G G$ G G G G A T C A G G A A C C G G A A G G C C G G G G C C G G G G G G G G A A G G G G AAAAGGAAGGAAAAGGCCAGAAGGAAGAGAACCAGGAAACAA AAAGAAGGAAAAGGGGAAAACCGGAAAGGAGGGGAGAAAAAG CA G GAAAAAAAACCAAGGAGGGAGCCAAAGAGAGGAGGGGGG A A A A A A A G G G GAGGGGAAAGAGAGAGAGAAGGAAGGGAGAAA A G G GAAAGGGAAAGAGGGAAAAAGCGGACAGAAGGAAGAAGA G G C A C G A G A A T T C C A A GAGGAGAAAAAGAGGGAGGGAA G GA G G G G A A A G G A GCCCAGACAGGGGGAAAGGCCAAAAAA GGGGGG GAA $A$ A A G G A GAGGGAACCAAAAAGAAGAGGAAAAGGGGGGAA A A A A A GCCGGAAAGAATTACAGCCGAAAAAAGGGAACAGGGA A GAACCGGTAGGGGGGGAGGGGAAGACCGAGGAAGGAAGGAA
 G G G G G GAGGAGAAAGGCCGAGGAGGAAAAAAAAAGAGAAGCC AAAGAAGGAAAGGAGAGGAAGGGGGGCAAGAGCGAAAGGGGG G GAA A A G G A A A A G G G GCCGGAC GAGGGAGGCC GAGCAGGGGG G G GAA A G G GAA A G GAACAAACAAGAGGAGAAGAGGGAAGGGG G G G G G GACGGAAGGAAGGAAAGGGCAACAGAGGGGGAAGAAA GAAAGGAAGACCGGAAAAACGGAGGCAGGGCAGAAGAGAAGB GAGGGGGAGAGGACAAACAAAAAAAAAACCGAAGAGBAACAG A ACGAAAGGAGAGGAAAAAGACGACAAGGGCAAAAAGGGGGA G GAGGAACAGGAAGGGGGGGGGCCAAAAAAGGAAGGCCAAAA AACAGGGGGAGGGGACAGGGAAAGAGGGGGAGGGGGA
 G G G G G A A G G A G G A A G A A GA T T A G G G G G G G GA G G A A A GA G G A G G GAGGAGGACAACCACAAGAGGGGAGGAACGGGGAGAAAAAG
 AAAAGAAGGAGGGACCAGAAAAGAGGCAAAAAGAGAAGAAAG A A G G G A A A G G A A G G G G A A A CAAAAGGAC GAAAGGGAA GAGA G C A C C G A A A A A A A G G G G G G G G A A G G T T A G G A A G G G G G A G T T G G A G G A T A A G CAA $A \operatorname{G} G \mathrm{G} A \mathrm{G} G A G G A G G A A A A G A A A A C C G G C A A A G G$ $G G A A A A C C G G A A G A G A A A G A G G G A G G C C G G G G A A A A A A G A G G$ GAGGAAAAGGAAAAAAAAAACCGGGGAGGAGAGAACAAGGCC A A A A A GAGGAAAAAAGCAGGCAAGGAGGGGAGAGGGAAGGCA GAAGAAAACCTTGGAGAGAAAGTTAAGGGGCCAAGGGGCCAG GAAAAGGGAAGGGGGGGGGAGAGAAGGAAAAGGAAAACAGAG G GAGGAAGAGGGGAAAGGAAAGAAAGAAGGAAAGGAAAACAA
 A G G A G A A A G GAAAA A GAGGGAAGGAGAGGGGGCAGGTTACGG G G G G A GA $A$ A $A G A A A A A A A A A A A G G G G G G G G G G G A G A A G A A A A G$ C CAGCCAAAGGAAAAAGGAAGGAACAAAGGGGATAAAAGAAG G G G G A G A A A A A A A C G G A A G G G A G G G G G G G G A G A A CAAAAA $A$ A AAAAGGGACAAGAAAAGGGAGGAAAACCGGGGAAAACAAAAA G GAAGCAGGAAAGAGAAAAGAGAGAGAAAAAAGGCCAGAGAA

A G G G A A A A A A GAGGAAGGCCCCGAATAGGAGGAAAGGGAAAA GAAACAGGAACCGGGAGAGGAAAAGGCCAAGGAAAAGAACCC AAAAAAGGGGGGGGAAAGGGAAGGAAGGAGAAAAGAAA GAAA A GAGAACCGGAGGGAGGGGGGAAAAGAAAAAAGGGGCCAAAA
 GAAGGAAGAAGGGGGAAGCCAAAGGGCCAGAGAACCGGGCAA $A G A G G G G G A G G A A A G G G G G G G G G G C C G G G G G G G G A G G G A G A A$ G GAGGAGGGGGGAGAAGAAGAAAGGGAGCAAGGGGAAAAGAA $G G A A G A A A A G C A G G G A A A A A G A G G A A G G A A A A G G A A G A A A G G$ G GAAGGGGAACCTTACAGAGGGCAGAGAGAGAGAAAAAAAAA GACAGGAGCAACAAAAAGGACAAGAAAGCGGGAGGAGACGAG A A G G G GA G A GCAGGACGGAAGGCCAAAAAAGGAAAGAAAA G G A A A A G A A A A A C C A A A G GAGAAAAAAAGGGGGGAAACGGAGAA C C GAGAAAAGAGGGGGGGCCGGAGAAAAGGGACAAGAAGAAA G GAAAGAGAGGAGAAACAGAGGACAGAAGGGGGGGGAAAAAA G GAGGAGAAAGGGGAAGAGGAGAGGAGGGGAGGGAGAAAACA ATCCAGGAGAAAAAGGGGGAGGAAGACAAAAGGGAGGAGGAAA
 GATACCAAGAAAGGGAGGAACCCCAAACAAGGGGGGGAAGAA A G G G A A G G A A A G G G GAA A A A GAGGGGAAGGAAAAAAGAAAAA GGAAGGCCCCGGGAAGAAGAAGAGAAGGGGACAGAGAAACAA A A A A A A G G A G A A A A A A A GC C G G G GAAGAAGAACCAACCACAA GA $\operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \subset C A A C C A A G G A A C C G G C C G G A G C A G G G G G G G G$ A A G G G GCCAAAAGGCAGAAGCAAGGGGGGGGGABAAGGGGGG
 AAAAAAGGAAGGGGAAGGAAAGGGAACCGAAAGAGGAGGGGG AAAGAGCACCAAGGAAGAGGGGAAGGGAGGAAAAAAAAAACAA GAGAAAAAAAGAATAGAGAACCCCGAAGGAGAAAGAGAGGAA AAAAGGGAGAAGCGGGCCAGGAAAGGAAGACACCGAAGAAAG A GAAAGAAAAAAGGGGGGAAGAAGGGGAAAGAATCAGGAACA GAGGGAGGAGGGAAAAGGGGAGAGAGAAAAGGAAAAAAAAAA G GAGAGCCGGAGACAGGACAGAGAGGAGGAGAATCAACCC GA AACCAAAAAGAGGAGAAAATCCCCGAAGGAGGGAACTTGGGG A GAA A G A A A A G A A A G G A A C C G A A G G G G G A G G A GA G A A A G A C A $G G A A A A G G G G A A G G G G A A G G C C G G G G A A C C A A G G G G A A A C A C$ A A A A A A G G G A A G A A G G A A A A A A A A CCAAGGGAAA GACCACAA A A G GAAGGAAGGGAGAACAAGGAAAGGCAGAAAAGGAAAAAG G G G G G G G GAGAACCAAGACCGGGGGACCGGAAAACCCAACAAA G GCCAGGGGAGAGGAAAAAAGGGGGGGGCCGGAAAAAAAAAG GAAGGGGAAAGGAGCCGGGAAAAAGAAGAGAAGCAGAAGGCC GAGGGGAGTTGGGGAAAGGACCGGAAGGGGAAGGAAAAAAAA G G G GCCGAAAAGAAGGAGAGAAAAGAAAGAAAGAAACACAAA G G G GAAAGGGGGCAGGAGAAAAAAAAAAGGGGCACAGAGGCC A A G GCCGGGGAACCCAGGGGGAAAAGGGGGAAAGAAAAGGGG AA $A$ A $\operatorname{A} A G G A G A C A A G A A G G A A A G G A G G A G A A G G G A G G A G A A G$ A G G A A A GAGGGAAAAAAAAACCGAAGACCAGAGGGGAGACAA CAAA $A$ A A A A G G ACCCCAAAAAAAAGGGGGGTAA G GAACAGGG GAGACCGGGAAGAAGGGGAGCAGGGGAAGGAGAGGAAAAAGA A GAGAAAAGGGGGGTTAAAACCGGAAGGGGGGAAAAGGAAGA GAGGGGAAGGAAAAACGGGAGGGGGGACAAAAGGAGGAATAA G G G A A GAGAACAAAAAAAGAAGGGCAAAGGACAAAGCGAGAA

 AAACAGGGAACCCCAAAAAAAAAAAAGAACGGGGGAAAGGAG AAAAGGAAGGAAAAGGAAAAAAAAAAGGAAAAGGGGGBAAAA A A G G G G G G A A A A A A G G G GAAAAGGAAAAAAGGAAAAG GAAAA GGCCAAAAAAGGGGAAAATTGGGGGGGGGGAAGGAAAAAAGG AAAAGGGGAAGGGGAACCGGAAAAAAGGCCGGGGGGAAAACC $C C T T G G A A G G G G A A A A T T A A G G G G A A G G G G A A G G C C G G G G G G$

G GCCGGAAAAGGAAAACCGGAAGGGGAACCGGGGGGCCGGGG GAAAGAACAAAGCGAAGGCCGAACGGCCGGAGAAAGAAAAAG A GACAAGAAGGGAAAAAGGAAAAAAAGGGGCAAAGAAAAAGG G GAGGGAAGGGAACGGAAAAGGAGGGCCAAAAGGGAAGAAGA A A G GAACAGGCAAGGAGGGGGAGAGGCCCCGGAAAGAACACC A A A A A C G G A A A G G G G G A A GAGGGGCCAAGGAAAAAAGAAA GA AACCAAAAAAAAAAAACCCCAGAGACGGAAGAAA GAAAGGAA $A C A A G G G G G G A G G G G G A A G A A G A A G A A G A A A G G G A A A C A G A A$ G G G A G G A A C C A A G A G G A A A A A GCC G G G GAGGACC GA GA GAA G G G G G G GAGAAGGAAGGAAAGGGGAAAGGGGAACCAAAAAAGG G G G GAA $A \operatorname{GGAA} G C A A G A A A A A A G G A A A C A G A A A G A G G A C C G G$ GGCCAAAGGAAACAAGACGGAACCGGAAGGAGAAGGCCAAAA
 AA $\operatorname{G} G A A A A A A G G A G G G A A G A C A A A A G G A A G A G A G G G G G A A A G$ AGGAAACCCCAAACGGAAGGAAGGACAAAAAACAGGAAAAAA AACCGGGGAAAAAAGGAAGGCCCCAGACAAAAGGGAGGAGGG GAAAAGGGGAGAACCCGGCCAGAGAAGGAAGGGGAGCCGGGG AAGGCCAACAGGAGGAGACCAAAAGGGACCCCGGAGAGAAAA $G G G A A C G G A A G A A G A G G G C C G G A A A G A A C C G G A A G G G G A A G A$ $A G A G G G G G G G G G G G A A G G C A A A A G A A G G G A G A A G A G G G A G A A$ GGAAGGACACGGACGGCCGGGGGGGGAAAGAGGAAAAAAGAG ACGGGGAAGGAACCGGAAAGAACCCCGAGGGAGGCCCCAAAAA A A A A G GCAAAGAACGGGAAGGGAGAGGAGGAGGA GAAAGGAA G GAGGGGGGGGGAAAAGAAACAGGGGGGAGGAGGAAGAAAAG
 AAGGGAGAAAAAGGCCAGAAGGAAAAAAGAAAGGGGGGAGGG A G G G G GA $\operatorname{l}$ A $A$ A $\operatorname{A} A A G G A A G G A G A G A A G G G A A A G A G A A G A G A A$ G G G G G G G G G G A A C C A A A A C CAA A A A G GAA GACAG GAAAC A A G G GCCAGAGGAAGGGCGAGGGGGAAAGAACCGGGAGGAGAGGG C CAGGAGGAAGAGGGGGGGAGAACAGCAAAAAAAGGGGAAGAG A G G G A A G A A ACCACCCAGCCAACCGAAGAACAAGBAAAAAAG A GAGGGGGAAGGAAAAAAGAAAGGAAAAATGAGGGAAGAGAG A GAGAGGAGGAAAGCCAAAAGGAAAAGGGGGGAAGGACAAAG
 CAAAAACCACACCAAAAAAAACGGGAAGAAAAAAGGGGGGGA TAGGGGCCGGGGGACCAGGGGGAAGGAAAAGGGGGGCCAAGA $C \subset G A G A A G A A C C C C A G A A G G A A G G G G C C A A A C C A G G A A A A G G$ A A A G G G GAA A G GAGCCGGAACCAGGGGAAAAAAAGGG
$G C C A G A C G G A A G G G G C G G A G G G G G C A A C C G G G G A G A A A A G G$ A A C A A GCCGGGAAAAAGGGGGGAAAAGAGGAGAAAACAGGGG $G G A C G G A A A A A A A A G G A G A A A G A G A A G G G G A A G G A C A A G A A A$ G GAA $A \operatorname{G} G A G G G G C C G G A A A G G A A A G G G A G G G G A A G G A A G A G A$ G GAGAGGGGGGGAACAGGGGAAGAACAAAGCAAAAAAAAACC $C \subset G G G A A A G G A G A A G G G A G G A A G A A A G G A A G G G G A C G G C A A A$ A GA $\operatorname{A} A A A G A A G G A A A G A G A A A G A G G G G A A A G G G G C C A A A A A A$ $G G A A G A A A G G A G G G G G G G G G G G G G G G G G G G A A G G A G A G A G G B$ GAGGCGGAAGAGGGAGAGAAGGAAGGGAAAGGAAGGGAAGAA A GAGAGGAGAGGAAGAAGAAAAAAAAGGCCGGAAGGGGAAAG ACAGAGGAAAAAAAGAAAGAAGAGAAAAACCCAGAAAGAGGG A G GA A G GACACCAGGGGGGGAACCCCGAGGGGAGAGAGAAAA
 A G GAGGGGAAAGAGGAAAGGGGGAGGGAACGGGGAAAGAAAA AGCCAAAAAGAAGGAAAGAGGAAAAACAAGGGAAAAAGAGAA AACCAAGGGGGGGGGAAGAAAAAACCAAGGAGAGCAAGAGAG G GAAAAAAAAAAGGAACCAAAAGGCAAGACAGAACCAAAGAC A G GAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACCAA GAAGAGGGAAGGGGCAGGGGAAGGACAAGGAAAAGAACGGAG
 $C C G G G A G G A A C A A A G G A A A A G G G A G G A G A A G G G G A G A G A A A A$

A A G G G A G G G GCCGGGGAAAAGGGGGAGGAGGGCAAGGGAAGA G G G G G G G G A A G A A G G GAGGAAGGAGAGAGAGAGAAAGGABAA A A G G G G G G G G A GAACCGGGGAAATGGGAGGAGAA GGCCCC G G G GAAAATTAAAAAATTGGCAAGGAAAGGAAAAAAAGAAAAGG A A G GAACAGGCCGGAGAGAAAGAGAGCCGAAAGACCAACCAG C C A GAA $A \operatorname{GGAA} A G G A A A A A A A A A A G G G G G G C A C A C C C A G G T A$ C C G A G A A GCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAACA AAAGGAAAGAAGAGGAGGAAAGAGCGCCGACGATAACCAAAG A GAAA $A$ A A $G A A G G G A G G G A C C G G C C G G A C A A G A A A A A G G G B A A$ G G GAAGACAAAAAGGGAGAGAAGAGGCCCCAGAAAGAAAAGG AACCCCAAGGAGAGAGAGAAAAAGAGAAATGGACGACAAGAA
 AAAGAAGGGGCAGGGGCAACAAGAAGAGAAGGATACGAGGAG
 G GAA $A \operatorname{G} G \mathrm{G} A A C C G A A G A G A A G G A A A G G G A A G A A A C C T T A A G G$ GGCCGACAAGAAACAGGAGGGAAGAAAGGAACAAAAGAAAAA GACCAGGGGGGAAAAAGGCCAAAAGAGGAAGAGACAAGGGGA G GCCCAAGAACAGAGGAGGGAAGGAAGGCCAGGGGAAAAGAG
 G G A G G A G G G G G G A A A A G G C C A A G G A A G G A A G G A A C C A A A A G G AAGGAAAACCCAGAAGGGAGAGGGAAGAGAGGGAAGAGGGGA AAAAGACCGGAGGGAGGGGGAGAGGGGAAGAAGGGGACAAAG A G G GCCGGAGAAGGAGAGACGGAAAAAAGGGGGGAAAACCCC G G G A G G G A A GCCAAGGAACCAACCGGGGAAAAGGAAAACAAA C C C A C C A A G G G GAAAACCGACAGGGGAAAC GAAAGAGGAGAA G G G GAA A A A A A GACAGAGACGGGAAAGGGGAAAAGGCCAGAA G GAGGGCAAGAGAAACAAAAAGGGAGGAGGACAAAAGGGAGG G GAGGGAAGGAACCGGAAAAGGCCGGGGAAAAAAGAGGGGGG G G A G A G G G G A A A G G A A G G G A G G A A A A A A A A G G G G A A A A A A A A G G G GAAAAGGCCGGAAAACAAAGGTTGGAAGGGGGGAAAGAT CACCCAAAGGACAGAGCAGGAAAAGGAAGGCCAAACCAAAGBG G G G GAAAGAGGAGAAGCCGGAGAGGAAAGGAAGGAAGAGAAA
 A A G G G G G G A G G A T T A C A A $\mathcal{A} G G G G G G G G G G A G G A G A G G B A A C C$ A A G G G G A A A A G G A A A A A A A G G G G A A G G G CAACAGGGAAC CAC $G G A A A G C A A A C C A A A A A A G G G G G G A A A A C G A G C C A G G G A A G A$ C CAAACAAGGAAAAAGAAGGCCAGGGAGAGCCAAAGGGAGGA A A GAGAAGCCGGGGGGGAAGACGAACAGGGCCAAGGGGAGAA G G A G G A A G G A G A G A A G G G A G A A A A C C G G G G G G A A A G A A G G G G
 AAGGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAAGGAA A A G G A A A A G G G G A A A A A A A A A A C CAA $\mathcal{A} G G G A A A A A G G G G G A A$ AAGGAAGGAAGGAAAATTGGGGAAGGAGAGGAAGAAAGAGGG
 C C A A A A G G G G A A G G G G G G G G A G A A G A G G G A GA G G A A A A G G A G G GAAAGGAAGGAAATTCCAGAAAAGGCCGGACAAAAAAAAGBG G G G G A A G G G G G G G G G G G C G G A G A A A A A G CAAA A GAAC A A A A A G G G G G A C A A A A A A A G GAAAAGGGGAAGGAAGGAAGGCAAA G G AACCGAACAGGGAAACAAAGGGGGAGCCGAGAAAGGGGGGAG G G G GCCAAGGGGAAGGGAGGCCGACAAGAGGAGAAAAAGA GA GAAAAGCCAGGGGGCCAGGAGACAGAAGGATTAAAAAAGGAA GAGGAAGGAGGGGGAGGGGGAAAGAGACGGGGAAAAAAGGAG GAAAAAAAAAGGGAGAGGGCAGTTAAGGGGAAAAAAGABAAAA AAGGAGGAGGGAGGAAAAAGGAAGAAGAAGCCAAAAGGAGCA A G G GACGGCCCAGAAAGGAACCCCAAAAAAGGAAGGGGGGGG $G G C C A A A A C C G G G A A A A A A G G G G G G A A A A A A G G A A G G C C G G$
 C C G G A A G G G G A A G G C C A A A A G G G G G G G G A A A A A A G GAA G G C C $G G A A T T A A G G G G A A G G C C G G A A G G G G A A A A A A G G A A G A A A A A$

AAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAGG A A A A G G G G A A A A A A G G G GAAAA A G G G GAAAAAA A GAA G G G GAA G G G G G GAA $A \operatorname{GAAAAAGGGGAAAAAAGGAAAAAAAAAAGGACAA}$ CCAAGGAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCGGAAAA AA $A G G G C C A A G G A A G G G G C C A A A A G G A A A A G G A A G G C A G A G G$ A GCAGAGGACAAGAAGAGGCATGGAAGAAAAAGAGGGGGGAA A G G A G A A G G G A G T T A A $\mathcal{A} G G G G G G G A A C C G A G G G G G G A A A A A G$ GAAG $A \operatorname{A} A G G G G G G A A A A A A G G G G T T A A A A A A G G G A G G G G G G G G$ A A T T C C A A C C A A G G G G G G G G G G A A G G A A G G A A C A A A A A G A G G AACAGGGGAAAAAAAAGGAGAAACGAAAAAGAGACAGAAAAG GAAAACCAAAAACACAAAGGAAGAAACCGAGGAGAAGBAAAA C C G A C CAGCCAAAGGGCCAAAAGAAAGGAAGGGGAAGGCAAA A A A A C A A G A G A A A A G G A A C C G GCCAGGGGGGA GAAA G G G G G G A A A A A A G G GAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGAA AAACAAAAGGAAGGGGAACCGAAAGGAAGGGGGGAAGGAAAA G G G GAA A GAAGGAAGGGGCCAAAAAAGGAAGGAACCCAAAAA
 CAAAAA AAGGAAGACAAAGAAAGGAGAGGGGGAAAGGAAAAG G GAGACGGGGAACCGGAAAAGGCCACAACCGAGAAGAGAGAG A A G G A A C G GAA $A \operatorname{GGGGGGGAACCGAAAAAAACCGGAAGGGGCC}$ GA $A$ A $\operatorname{A} G A A G A G G A G C A G G A T A G G G G G A G G A G G G G G G G C G G G A$ GAGGAGCCGGGAGGGGAAGGGGGAGGAACCAGAGACGAAGGG A G A G A A A A G G G G A C A G G G G G A A A G G A G G G A G G G G A A A G A G G G A A A A A A $\operatorname{A} G A G G G G G G G G G G C A A A A C C G G G G C A G G G A G G G G C C$ A A C C G G G A A G GCGGTTAGAAAAGGGGCAAGGGAGAACCCCGG
 AAAAGGAACAGGACGAAGGAGAGGCCGAAAAAAAGGGGCAAA AACCGGAAGGGGGAGAAACCAAGGAAGGAAGGGGAAAAAAAA A A A A A A GAGGAAAAAAAAGGGGGGCCGGCCGGGGGGAAAAAA G G G G G G G G G G A A A A A GAA C CAA A G G G G G GAG GAAAAAAGAAG G C C G G A A A A G G A A G G G G A A G G G G G G A A A A G A GAA $A$ G G G G TAA A AAGGGAAAAAGAAGAAGGGAAGACAAACAAAAAAAAGGGGGG GCAAAAGGAAGGAACCAAGGGGACGGGAAAGGAGGGAAAACAA C CAAAAGGCCGGCAAAGGAAGACCAAAAGGCAAAAGGGGGGG A A G G A A T T G G G GAACACAACGGAAAGAAAAGGAGGGACAAAA C CAAAAGGAGAAAAAAAGAGGGAACCGGAACCGACAAAAAGG G GAAAAAGGGGAGGGAAAAAAACCGAAGAAACAACCCCGGCC $G G T T A A G G A A G G G G G A A G G A G G A A G A G G A G G A A A G G C$

 C C G G G G G G A A A CAA A G GACCGGGGAGAACGGGAGGAAACAAA GAAAGGCCGAAAGGGGGAGGAAAGGACAGAACAGACAAAGAG AACCGGGGAAAGGAAAGAAGGAACGGAAGGGAGGAAGAAAAA AAAGAAAGAAGGGAAAGGAAAGGGAGAAAAGAAAAGGAGGAA A A G G G GA G A A A C G A A A A A TAAA A GAAA A A G G GA GCCGAAA G G GAGGGAGAGAACCCAAAAAAGGGGAAAAGGAAAACCCCAGAA GAAAAGAGAAGAAACCAAGGAAGGAATAAAGGAAGGCCGGCC AAGGGGAGGAGAAGAACCAAAAAACAAGGAGGAGAAAAAAAA
 G G G A A A A G G G G A G G C A A A A C G GAC G GCCAACCAA G G GAAA A A $A G C C G A G G A A A A G G G A A A G G G G G G A A C C G G T A A A A G G A G A A G$ G GACAAAGAAAAGGGGAAAACCGGGGAGGAAAGGAAGGGGGA A G G G G G A A A A A A A A G G A A GAA A A GAAGAAGGGGAGAAAA A A G GACACCAATTGACCCCAACCGGGGAGAAAAAACAAGAAGGAG CAAACCAAGAGGAAAAGGAGAGCACCAGCAAGATACGGAAGA G GCCCAAAAACCGGGGAGGAGGAGCCGAAAGGGGCCGGAAAG G G G G A A G G A A G G A A G G G GAGCCGGAAGGAAGGCCAAAA GAA $\mathcal{A} A$ A GCCCCAAGGAAAAGGGGGACCAAAGCATAAGGGGBAAAAAG $A G G A A A A A G G G G G G G A A G G G A G G G G A A G G G A A G A A A G G G G G G$

ACGGAGGGAAAGAGAAAAGGAGAAGGAGGGGAGGGGAAGAAG
 A G G GACAG GAGGAGGACCAACCGGGGGAAAAAACGACCAAGAG A G G GAA A G G GCCGGGGCATTAGAGGAGGCACCGAGAAGAGAA AAGGAACCGACAGAAGCCGGGGAGAAGAAAGAGACAAGAAAC
 A A G G A G A A G G A A G A G A A G G G G G A A G G G G A A A A A A A G A G A A G G C CAAGGAAAAAGGGGGACAGAAGAAAAAAAGGCCAAGAAAGG G GAA A GCCGGCCAAAAAAGGGGGGAAGGGAGAATGBACAGGG C C G A G G A A A G A A A G A A T T GAGGCAGAGGAAAAGGAAAA G G G A GAGGGACCAAAAGGAAAACCACGAGAGAGGAAGGGGGGAAGA
 A GAA A A G GCCGGGGGGGGAAAAAAAAAAAACCGGAAAGAGAG G G G G G GA GAA $A \operatorname{AGAAAA} \operatorname{A} A A A G A G G A A A A A G A A G A G A G A G A A G A$ A GACATAGAGAGGAACGAGGAGAAAGGAGAAAGGGGCCGGGA A GAGAA $A \operatorname{A} G G A G A A G A C G A G A G A A A A G G C A G G C C A A A G A A A C$
 G G G G G GA G A A A GAA A GAGAGGACCAAACGGCCGGGGGGAGAA G G G G A A A A A A G GAA $A \operatorname{G} G A A G G G G A A G G G G A A A G A A A A A A G G G A$
 AAGGAGAAAAGGCACCGGGGAGGGACGGGAAGAGGAAGAACC G G G G G G GAGGAAAGCAAGAAGGAAAGAGGGGGAACCGAAAGA GAAGAAAAAGGAAAAGGAACAGACAGAGAGAGACAGGGCCGG
 G GAAAAGGGGCCGGGGGGCAGGGGGGCCAGAACCGAGGAAGA GAAAACCCAGGAAGGGCCCCGGCAACCAACAAGGGGGGGGAA G GAAACAAGAGAGGGAAGGGAGCCGGACAGGGGGACAGGAGG A G G G G GAGGGAGAAGACCATAGAACGCAAAAGAGAGGGAAGA C C G G G GAA $A \operatorname{GA} A C C A A G G G A G G G G G G C C G G A A G G G G G B A A G A$ $G G A A G G G A A G G G G G G G A A A A A G A A A G C A C A G G G A A A A G A A G G$
 AAAAGGCCAAGGAGAAGGGGAGAAAAAGAAAACCGGAAGGGG G G GAAGCCCCGGGGAAGGAAAAGGCGGAGAAGGAAGAAAAAG G G A A A G G G A G G A A A A A G GACACGGACCCGGGGAA GGGGAAG G A GAAAAGGGGCCAAGGAAAGACCCAGGAAACACCAACAAGGA $G G A G A A G G G G A A C A G G A G G G A A C C A A C A G G G G A A G G G G A G A G$ G GAACCAGGAAAAAAAGGGGAAAAAGGAGGAAAAAAGAAGAG GAGGGGGAACGAGGACAGGGGAAACAAAAGAAA GAGAAAGGG
 A A G G G G G G GA $A \operatorname{GAA} A G C A A A C A G G C C G G G G G G A A G G G A A A G B$ G G G GAAAAAGGCGAAGAGAGGGAAGGAAAAGGAGGGAACAAA G G G A A A GAGGGAAACCAAAGGGAAAAAAGAAGAAGAAGAGAC $A C A A C C A A G G C C G G C C A G T T G G G G A A G G G G A A A A G G A G A G G A$ G G G A G GA G A GAGGGGAAAAAGACAGAGAAGAAGGAGAAGAAA G G G G A A A A A A G GAA $A \operatorname{GGGGGGAACCCCGAGGAAGGAAGAAAGG}$ A A G G A A A GAGGAAAAAGAGAAGAGAGGAAAGGAACCGGAGAA G G G GAGCCGGGGGGAGGGAAGGAAGGGAGACAAGAAAAGGAC G GAGGGGAGGAAGGAAAAAAATGAGGAAGGAAAAGAGACCGG GAACGGGGGGGGGGAAAACCGAAGGGGGAACCAGCAGAAAGG A G G GAAAGGGAAACAAAAAGCCGAGGAAAACAAAAAGAGGAA AA GAACGAGAAGGGGGAAAAACAACAAAACGAGGGGAAAAAA GAGGAAGGAAAGGGAAAAGGAAGGGGGGAGAGAGAGGGAAAA
 A ACACAAAAAAAAAAAAAGAGGGAGAAAGGAAGGGAAGAAAA G G GA $\operatorname{G}$ GAA $A$ AAAAGGGAAACCAAAGAGAGAACGGGAAGAAAA $A G C C A A A A G G G G C C A A G A G A C A G G A A G G A A A A A A G G A A A A A A$ G GAGGGAAGGGGAAAAGGAAGGGAAGGGGGAAGGCAAGGGGG G GAAGAAGAACCAGCCAGAAAGGGAGAAGAGGCCAAAGAAAA A G G GAAAAAAGGAAAAGGGGAAGGTAGAGGAAAAAGCCACAA

G GAACAGGGGCAGGACAAAAGAAAGAAAGGAAGGGGAAAAGG G G A A G G A A A A G G G G A A A G G G G A G A A C G G A A G G G G A G G A G G G G G G A A G G G G G G G GAACACAGGAGGGAAAAAAAAAGGGAACC G G
 CAAAAGGGGGAAGGAAAAAAGGAAAACCGGACCAGGAGGGGG
 C C G G G GAACAGGGAGGAAAAACCCAAAAAAGAGGAGACGGCC A A TAAA A A G GAAAAGGGAAACGGAAAGGAAGGAAAACCGGAG GAGCCCGGCAGGAAAACCAACCGAGGAGAGAAAGGCCAAAAA G GAAGGAAGGCCTAAGAGGGGGAGAGAAGGAAAAGGAAAAGG GAGGAAGGAGAAGGGGGGACGAAGGGAAAGGAACGGCAGGGG A A A A G G G G G G A A G G A A C C A GAA A GCCAA GACC GA G G G G G G G G G G G G A G A A A A C C C C C A A A A G G G G G GAGAGAGAAAGAG GAAAA G G G G A A C C A A G A G A A G A C A TAGAACACCAAGAGTTTAAATGA GAGAGAGAAAAAAAGGGGAAGGAAAAGGGGCAGAGAAAAGAA AAAAAGGGGAAACCGGCCAAAAAAGGCCACGGGGGGAAAAGA A A A A G G G G G G A A A G T T G A G GAGACAGAAGGCCCCACGACA G G A A A A G GAGAGCGCAGAAAGATTCCACAAAAAGCCGCAAAGAA $G G A A G G C C G G G G G G G G G A C C G G C A G G G A C C G G A A A A A G A A A C$ A G A A A A $\mathcal{A} G G G A A G G G G G A G G G A G A A A A G C C G G G G C A G G A A A A$ G GAAAGAAGGAAAGAGGGAAGGAAAGGGAAGGAAGGCCGAAA CAGGAAGACCGGAAGAGGCCGGGGTTGGCCGGAACCGGAAGG A A TAACAA $A$ A $A \operatorname{A} A C A A G G G A A A A G G G G A G G A A A A A G A G G A G A A$ T T A A G A A G A G G A A G A A $\mathcal{A} G G G G G A A G G A A G G G A A G A A G A G A A A$
 A GAAAA AAGAAAAAAACCAAGGAGGGAAGGAAAAGGAAAAGA A G T TA $A G A G G A A A C C C G G C C C A A A G G G G G G G G G G G G A A A G A A$ GAGGGGAGGGAAAAGGGGAGGGGAAAAAAGAGGGAAAAAAAA
 GGAAGGCCAAAGAAGGGACCAAAGGGGAACGACCGACAGAAA A G A A A T G G T T G A A A G A A A A G A A A A G G A A G G C G A A G G C A T T A A AAAAGAAGGGGGGGGGCCGGGGGGAAAAGGAAAGGGAGAGAA AA $\operatorname{A} A C C A A G G A G A A A A A C A A G G A G G G G G A A A A A A G G G G A G A C$ $G G C C A A G A C A A G A C A A G G A A A C G G G G A A A A G G A A C C A G A A G G$ A A A A G G G G GA $A \operatorname{GAAAAAGGGGAGAAGGGGAGAGGAGGAAGACA}$ A A G G G GAGAAACGAGGAAAGAACCAGCACAGGAAAAGCBGAA G G G GCCAGGGGGGGGGAAGAGGAAGGGGCAAAAAAAGGAAGA AAGGGGCCGAGGGAAGGGCCCCAACAAAAAAAAAGGG
GCAGAAGGGACAAGGGGACAGGAGGAACCAACCCCCAGAAA A A G G A A GAGAGGAAGACCAGGGGGCACACAGAAGAAGAGAGG A G A A A T G A A A A G G A G G A A A A A G G A GGGGGGAAAAGACAAAAA G G G G G G A G A G G G G G G G A A G G G G A A G A G A GAGGAGAAAAA A A A AAGGGGAAAAGGAGGGGGAAAGAAACGGAAGGCCGAGCCCAG A ACCACAAAAAAAACCGAGAAGAAGGGGAAGGCAAAAAAAAA $G G A A A A A A A G A A G G G G A A A G G G A A G G A A C C A A A G T T G G A G A G$ A A GAA A G A GAGGAGGCGAAGGCAGGGAAGAGAGAGAAAAGAA
 G GAGAAAACCAAGGGGGGAAAAAAAAGAACGAGGAGAGACAG A G GAGAAAAAAGCACAGAAGAAAGAAGGAAGGGGGGGGAGAA A A A A A A G GCCCCGGGGGGGGGGAAAGAAAGAAAA GAGAAA G G A A G G G GAAAAAACCGAGAAGGGGAAGGGGAAGAGCAAGAAAA AA $A G A A G A C C T T G G G A C A C A G A A A G G G G G G G G A A A G G G A A B G$ G G G G G G A A G G A A A A G G T T G A G G G G G G A A A A C C G G A A A A G G A A AAGGAAGGAAAAGGGGGGAAAAGGAAGGGGGGGGGGGAAAAA A A A A A ACCCCAAGGGGAAGGAAGGGGGGAAAAAAGAAACCBG G G A A T T G G G G G G G G G G A A G G G G A A G G G G A A G G A A A A A A C C A A $G G C C A A A A G G G G A A A A C X A A G G G G G G A A G G G G A A G G A G A A G A$ A A G G A A A A G G G G G G A A G G C C G G A A G G G G C C G G G G A A G G G G G G AAGGAACCAAGGGGCCAAAAAAAAGGAAAAGGAAGGGAAAAA

T TAA A G G GAAAAAAAAGGGGGGGGAAAAGGGGGGAACCAAAA G GAAAAGGAACCAAGGAAAAAACCAACCGAGGGGAAGGCCTT G G A A A A A GCCAACCGGGGGGAAAAGGAAGGGAGAAGAAAAAA A A G G G G G G G GAA $A$ G A A G GAA $A \operatorname{AGGGGGGGCAGGAACCGGACAA}$ G GAA $\operatorname{G}$ GAAAAAAAAGGAAGGAAGGAAAAAGAGAGAAGGAAAA G G G GAAAACCGGAAAATTGGAAAAAAGGGGGGAAAAGGGGGG A A G G A A G G G G A A G GAAAAGGGGAAGGAAGGCCAAGGCCACAA AAAAAAAAGGGGGGGGGGCCGGGGAAGGGGCCGGCCGAAGAA A GAACCCACAAGAGAGCCGAAAGAACCAAAGAGAAAAAGGAG G G G GAA A G G GAAGGGGCCAAGGAAAAAAGGGAAGGGGAGAAT
 G G G GAAAAGAAACCAAAAAAGGAAGAAACCACAAAAGGAA GA
 A GAGAGCCAAAACAACGGGAGGGAAAGAACCAGGACGGAGGG GAAACCGAGACCGGGGGGGGAAGGAGGAGGGGGGTAAAAAGA AA GAGGAAAACAAAAAGGAACCAGGGAGTTGGGAGAGAGGCC A A G GAAAAGAAGAAACGAAAGGGGGAGGAAAGGAGGCAAAAAA A G G G G GAA A GACAAAGAAGAGGAAGAAGAAAAAGGAGAAA GA AGAAGGAAAGCAAGGGCAAACAGATAAAAAAAGGAAAGAGCC G G G G G G A A C C G A C A GAAAAAGGGATTTAAAGGAGAGAACA GA G GCCGGGGGAGGGGAGAAGGGGAGGGAGCAAGGACACCGGGG ACTAAAGAAAAAAAGGAAGGAAAAAAGGAAGGAAAAGAAACC AAGGAAGACCAGGGAAGGCCCCAAGGAAAAAGGAAGAGAAGG G G G A A A A A G A A C G A A G A A A A G G G G A A G G C C C C A G GA G GC C G G TAAAAAGGGGGGGGGGCACCGGAAAGAGCCAGAGCAAAAGAG A G GAGGAAAAAGCCACGGGGAAGCAACCCAAACCGGAACCTA A GAGAAGGAAAAGGAAGGGGAATTAAAAGGGGGGAAAAAGGG
 G G G G G G G G A A G G G G G G A A C C G G C C A A G G G G G G G G A A A A T T A A CCGGAAAACCGGAAGGGGAAGGGGAAGGCCAAGGAAGGAAAA A A A A A A A A T T G G G G G G A A G G C C G G A A A A A A G GAAAAC C G GAA AAAAGGGGAAGGAAAAGGGGGGACCAGAAGAAGAGGGGAAGA
 CCGAGGAAAAGGGAGAAGCAAGGAACGAGAAAAAAAGACAAA G G G GAAAACACCAACCGGCAAAGGGAGGAAAAGGAAAAGGAG
 G GAGGGGGGGAAAAGGGAAGGAAAGGGGGGAAAAGAGGCCCA $C C G G A G A A A G A G A G A G G A G A A A G G G G A G G A G A A A G G G G A G G G$ G G G G A A G G A G A GCC G G G A A A G G A G G G G G C C G G A G A G G G A G A A G GCC G G GAGGGGACGAATGAGAACAAAGGAAGAA GGGGCCGG G GAAGGGGGGCCAAAGAAAGAGGGAAGGGAGGAAAAAAAGAC ACAAAAACGGAAGGGGAAAAAAGGCCGGAAGAGAAAGBAGAAA G GAGGGGAGAACAAGGGGGGCCAAGCGAAGGGAGGGGGAGGG G GAGGGCCGGAAAGAAGGGGAAAAAGGACCGAAAGGGAAAAG $G G C C A G A A G G G G A A A A G G A T G G A G G A C C A A G G A G A G G G A A C C$ G G G GA GACCCAACCGACAAAGGGGAACAGGGGGGGGGGAAAA TACAAACCCCAAAGGACGGAAAGGCCGGGAAAGGAGAGAACA AAAAAAGGAAAAGGAAGGGGGGGGGAGGGAGACCCAAAGAGG GGGCAGCCAAAGAAAAAAAGAAGAGAAGGAAACCAGCAAA GA C C G G G G G G G G C A C A C A GAC C G G G G A A A G G A G G A A G G G G G G G G AACCAACCGGAAAAAAGGGGAAAAGGAAGGAAAAGGAGCCGG CACCGAAGGGAGGGGGGAGGAAAGAGAGGAACAACCGGAAGA G GAAAAAAAAGGAAACGGTTGAAAGAGGAGGGGAAAGGAAAA G GAAAGGGGGAGGACCAAGGAAGGAAAAGGAAAAAGAGGCAG GACCAAAAAAGGAGAGAGAAAGGAGGAGGAAAAGAGAAAAAA $A G A C A A G G C C G G G A G A G G A A G G A C C C G G A G G G G G A G A A A A G G$ $G G A A G G G A A C G A G A A G A A A G G A A G C C A G G G G G A A G A A C A G C A$ A A A G G GC C C C A G G G A A A A A A G G G G G G G G A A A G G G G G G A G G G G AAAAAAAAGGGGAAGGAAAAAGAGAGAAGAGAAGGCGGCCAA

G G G GCAAAGGAGGAGGAAGGAAGGGGAGAGCAGGGGACGGGA
 T T T TCCGGAACCAAGGGAGAGGAAGGAAAAGGGGGGAGAGAG GAGGGGAGAAAGAGGGGGCCGGGAGAGAGAACAAGGGGAGAA G GAA A GAGAGGGGGGGAGGGAGGAGAGGCCGAGGAAAAAAAG A A GAA A GAGAGAACAGGAAGAAAAAAGGAGAGGGGAAAAAGG
 G GAGAAAGGGGGGAGGAAAGGGAAGAGGAAGGCAAGGAAAAAA A A A A A A G G G G G G G G C C C C G G A A G G G A G G G A A GACACA GA G A A AGGAGAAGGAGGACAAGAAGGAAGAAAGGAGAAACAGAAGGG
 GAGGGGGGGGCCCCAGGAGAGGAAAAGAGGGGAACCAAGGAC ACGGCAAAGAGAAAAGCAGGGGGGGGAGGAAAAGAAGGAGAA
 ACGGGGAGGGGGCCCCGAGAAGAGGGGAGGAAGGCCGGCCGG ACAGTTGGAAGAAAACGGGAGAAACAGGAAGGGGCCATAGAG
 G G C A A G G A G G G GAAAAAAGACAAGGAGGGGGGAAAAAACCCC AAGGCCAAAAGGAAAAGAGGAAGACAAAGGGACCAGAAAAAA A GAGGACACAGACAGAGGAGGGAACCCAGGCGAAGGAAAAGA G GAGAAAGGGAACCAGGACCAAGGGAAGACAAAGAAAGCCGA C C A A G G G G G G G GAA A G G GAAGAGGGAGGCCGGAAGAAA GAAA AA G GAAAAAGGAACAAAAAGAAGGAAGAAAGAAGAAAAACAA C C G A A GAC GAGGGAGAAGCAGACAAGAGGGAGACAGACAGBA
 GATTAAGGGGCCAAAAGAAAACGGAGGGAAGGGGGGAGAGAG AACCAGGGCACAGAAAAAAGGAGGAGGAGAGAGGAAGGGGCC G GAGAGAAGGGGGGGGCCGGAAGGACGGAAAAGAATGGCCAC A A A A A ACCGAA GAAAGGAAAAAAAAAGGGGAAGGAAGGAGAA $A C G G G G A A A G G G A G C C C A A G G A A A G C G G G G G G G G G G B A C C G G$
 G GAGAGAGGAAGGAGGAGGGGAAAGGGAAGAGAAAACAAAAA A GAGGGAGCAAAGAGGGAAGAGGAAGAGGAGGAAGGAAAGAA $G G A A A A A G G A A A G G G A G G G G A A G G G G A C G G A G A A A A A B A A A A$
 G GAACCGAAAAACAAGGGGGAAAAGGAAGGCAAGGAAAGGGA A GAA A GAGACGAGGGGAAAATTGGGAGGGAAAAGGACAGGCA A AAAGAGGAAAGGGAGCAACAAAAAAGAAGACAACGC
C GAGGGGAAGAAACCGGGGGGGGGGAAAAGGAAGAAAAAGG G GAGGACCGGAAAGAGAAGGGGAAGGAAGGAACCBGAAGGAA $G G A A G G A G A A G G G A G A T T A A A A G G A G G A A G G A A G G A A A A G A A$ CA $\operatorname{G} A A A A G G G G A G G T T A C C C A G A G A G G A C C C A G G G A A G A A A A$ G G G GAACACAAACCAAAGGAAAAAGGAAGGGGAAGGAAAAAA G GCC G G A A A A G G A A G G A A G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A A A C C C C C C G G A A G GAAAAGGAAGGAAGGAAGAAA G G A A A A $\mathcal{A} G G G G G G G A A C C G G A A G G C C G G G G G G G G G G G G G A A A A A$ AACCAAGGGGGGAACCAAAAAAGGCCGGAAAAAAGGAAAACC G GAAAAGGAAAAAAAACCGGAAAAGGAAAACCGGAAGGAAAA AACCAACCTTGGGGAAAAAAGGAACCAAGGAAGGGGGGAGAAA G G A A A A G G A A C CAA A G G GCCAAAAAAAAGGGGCCAAAA G GAA A A A A A A G G A A G GAAAAAAGGGGAAAACCGGGGAAGGGGAACAC
 A A A C G G G A A A A A G ACCCCAGAAAGAAAAAAGAAAGGGAAAAC G GACGAAAGGGGGGCAGGAGAAGGAAGAGAAAGGGAGGAGGG GAGAAGGGAACCGGGAAGAGAAGGGGGGAAAAGGAAAAGAAA G G G G G G G G CA G G G G G G A A A A A A G G C C G GAA $A$ G G G A A G G G G A A A A GAA A G G A GAGGAAGAAAGGAAAAAAAGGCCAGAGGGGGGG $G G A G G G A G G G A A A C A G G A C A G G A A G G A G G A A A C A G G A A B A G A$ GAGAAAGAGACCCAGAAAAAAAAAGGGGGGGGAGGGGGGGGG

GCGGGGGGGGCAAAAAAACCTTAAGGAGGGAGAAACAGGGGG G GCAAAACGAGGGGGGAACCAAAAAAAAGGAAATAAAA GAAA AAAGGAGAGAAAGACAGAAAGAAGGGGAAAAACAGGGACACA GAGAAGGAAGAGAGGAAGCGCAGAAGGGAGGGGAAACCAAAG $C C G G A G G A A G A G A G G G C C A C A C A G G G G G A A G C A A A A G G A A A A$ A A C C G A A G A A A A G G G A A G T T C C A G G G A A C C A A T T G G G G G G G G G G G G A A A A A G G G G G G G A A G G A G G G G G A A C A CA A A G G A G G G A G GAAGACGGGGGGGGGGGGAAGGAACCGGAAGAAAAAAGAGAA AAAGGGGAAAAAGAACACAGAAAAGGAAAAGAGGAAAAGGBA AAAGAAAAGGGAGGGGAAAGAAACGGCCGGGGGAAGAAAGGG A A A G G GAA $A \operatorname{G} G A A A \operatorname{A} A A A A G G G G A A G G C C G G A A A A A G G G G G G G$ GAA A G G G G GAGGCCAAGGGGAAAAAAAACAAGGGGGAAGGAA A GAA A GACGAGGGGAGAAAAACACGAGGAGAAGGGGCCACAA A G A A A A G G A A G A G G A G A A A A A A G G G G CAA G GAACA GA GA GAC $A C A A C C C C C C A A G G A A G A G G A A G G A A A A A A G A A G G G A A G G G G$ GGCCGAAAAGAAAGGGGACCCCAGGGAAACAGAGGGGGAAAA AC GAACAGGGAAAAAAAGGGGAAGAGAAAGAAGGATAAAAAG G GAGGAAACCGGGGGGACGGAGGGACGGGGGGGAAGAAAAGG A GAGGGAAAAGGGGGGAAGGCCAACCGAGGAAAAAAGGAAAA G G G GA G G G G A A G A A G G A A A A G A A A G A A G A A G G G A G G G G G A G A GAGAAAGGGAGGAGGGAAGGAGAAAAGCAGGAAAGGGGGGGG
 AACCGGAAAAAAACGGAGAAGGAAGGAGAGCCGGCCAAGGAG GAAGAGAAAAAAAGAACCAAAGAAGGGGACAAGGAAACAAAC A A G A G A C C C C G GAAAA G G G GCCCCGGAAAGGAGGCCAA GGGG
 A A GAGGGGAAAGAGAGAAGGAAAGAGGGGGAAAAAACAAAAA $G G A C A G A A A G A G A G G G C C G G A C A G G G C A A A G A A A G G A A G G B A$ A G G A G GAA A G G A G A A G G GC C A A A G G G G G G G G G A A A G A A G A A A G G G G G GAAATAGACCCGGAAAAGAGGGGGAGAGAAGAGGGGG A A G G A A A C A G G G G G A A G G A A G G G A A A G G A G GAAAA A A A A G A A CAGGCCGGGGGAGGGAGAAAGGGGGGCCAAAAGGGGGAACAA A A G G A A G G A C G A G G G G A A G G G G G G A G A A A G G G G G A A G G G G A A
 G GAACCAAAGAGAAAGCAGAAGGAGGAAGGCACCGGGGAAGAG A G G G G G G G A G G A A A A A G G A A A A G G G G A G G GAA $A$ G T T A A A T G G G G G G G G G A G G G A A G G G G G G G G G G A G G A G T A G A A A A G A A A G G A $C \subset G G G G G A A C A G A G A A G G A G G G A G A G A G A A A G G A A A A A A G G G$ A A A A A A G G A A G G G G A A A GAGGGGACAAAGCGAAGATGAACAA C CA GAAA $A \operatorname{AGGAAAAAAAACCAGAGGACCAAGGAGGGGAAAAG}$ G GACCAACACGAGAGGAAAGCCCCACGAAGGGAACCAAGCGA A G G G A A C C A G G G G A G A A G G G C C C C G G A A A A A A G GAA G G C C C C G G GAAAGGAAACAGAGAAGAGAGGAGGGAAAACCGGGGAAAA G G G G A A G G A G G A A C G GCCTAGGCCGAAAGGGGAAGGGAAAGA $G G A C G A G G G G G G A A G A A G A A A A A G G G G A A G G A A A A A C A G G G G$ AAAGGAAAGGAACCCCAAACAAAAAAGAAGAGGAACGBAGGG G G G G G G A G A C A A G G A G G G G G G G G A GAG GAAAA A GAAAAAA A A AAAGAAGGCCAAGGGGAAGGGAAAGGCCACAAGGACGGGGAA G GACAGGAAAGGGGAAGGAAAAGGAAAAAAGGGGAAGGCCAA AAGGGGCCGACCCCCAGAAAAAAAGAACAGGAGAACGAAGAC G G G G C A G G A T A G G G A A G G G GAAGGAAGGAAGGAAAACAAAAA A A A A C CACCCGAGGAAGGGGGGCCAAAACCAAGGAAAAGGGG G G A A A A G G G G T T G G G G A G G A A A A A A A A A C CAA A A A CA G CAA A GAAGGGGGAGAGAAGGAAAACCGAAGCAAACCGAGAGAGGGG $C \subset C \subset A C G G A A G A A A A A A A A A A A A A G A A A C C A G A A G A G G A G A A$ G G G G G A A A C C A G G G G G G G G G G G A A T T A A $\mathcal{A} G G G G G G G G G C C B A$ G G G G A G A A A A $\mathcal{A} G G G A G G A A G A G G G G G A C G G C A G G G G G G G G G G$ A A G G G G A A G G G G G G A A A A G G G A G G C C C C A G G A G G G G G A G G G G $G G C A G G C C A A A A A A G G C A G G G A A A G G A A C C A A A A A A A G A A G G$

AAGGAAGACAAGGGAAGGCCGGAAGGAAAAAAACGGAAAAGB CATTAGGGAACCGGAGTAAAAACAGGGAAAGGAAAAGGCCGG G G A A A A C CAAAACCGGGGAAAACCAAAAGGGGGGAAGGAGAA G G G GAAAAGGAGGAAAGGAGAAGGGAGAAAAGTTAAGGGGAA G G G G G GAGGAGAGGAAAGCCGCAAAAGGGAACGAGAAAAGGC ACAACCAGGGAAAAAAGGAAGAAAGGTTCCGGCCACGAGGGG G GACCCAGAAAGGACCAGCACAAGAAGGGGGGAAGAAAAAGA $G G C C G G G G G G G G G G G G G G G G A G A A A G A A C C A A C A G G G G G G G A$ G G G G G A C A C C A A A A G G G G A GAA A A GACC GAGGCCTTGGAA GA $A C G G A A A G G G A G A G A G A A G A C G A A G G A A A A G G C C G G G G A G G A$ G G G GA $\operatorname{A}$ GACGGGGGAGACGGGGAAGGAAAAAACCCCGAAGAA C CAGAAAGAAAGGAGGGACAGACACAAAGGGGAAGAAAACGG
 AAAGCAAGGGGGAAAAGGACAGAAAAGGAAGAGAAAAGAAGAG
 GAAAAAGGGGAGAAAGGAGGAAAAAAAAGGAGGGGAAGAAGG A GAGAACAGAACGGCAGGAAGGAGAAGAGAGGGGGGGAGAAA G G A A A C A A G GAGACAACCCCAAACAGCCGGACGAGAAAGGGG A A G GAGCCGGGGAGCCGGGACCGGGGAGAGACAAATAGAACC A G G G A G A A A C G G G A A G G G G A G G A A A GCCACACCAA GA GACCC ACAGACAAAAGGGCGGGAAGGGGGGAAAAAGGGGAAGGAGAA

 G GCA $\operatorname{G} C A G G G C C A A C C G A G G G G T A A A G A A G A G G A C G B A G G G G$ A A G G G A G G A C G GCCAA G G A G G G A A G G A GAAAAG GA G GAAAA A A GCAACAGGAAAGGAATAGGGGAACCGGAAGGAGGAGAAAGB GAAAGGGAGGAAAAAAGAGGGAAAAGGGGGTTCGGGAACAAAA A A A GCCAAAAGACCGAAAAGAAGAGAGAGGCCGGGACCBGAC A A GACAAAAAGGGGAAGAGGAACCAGGACCAGGAAGAAGGTT AAAGGAAGCAGGGAACAGAGGGAGGACAGAGGGAGGGAGGAA G G G G G G G G A GCCAAGATTGAAAAAGGCCAGGGAGGACAAGAA C CAA GAAGTTAAAAAAGAAGAAAATAGGAAAACCAGGGGGGA
 G GAGCCAAAAAGGAAAGGGGGGAAGGTTGGGGGBAAGGAGGG A G GAACCCAGACAGGAAGGAAGGAAAGGGGAGACAGAAGAGG G GAAGGCCAAGGCCAAGAAAGGAGAGGAACAGGAGGCGCCGG GAGGGGGGAAGAGGGGGAGAGGAAGGGGAAAAAGAAGAAAGA A GAA A G G G G G G G G GAGACGGAGGGGGAAAGCAA AAAG
 CAA ACCAGGGGGAGCCGGGACAAGGGGGCCAGGAGAGAAGAG AAAACAGATTGAAAAAAAGGGGGGAGAAGGACGAAAGAGGAA A GCCGAGAAAGAAACCAAATGGAACCGGAAAGAAGAAGAGGG AAGGGACGAGAAAGCCCAGGCAAAAAAGAGGGGGGAAAAAGA A G G G A G G G A C A A A A G G A A G G A GAAA A A GAAGGGGGGGAAAAA GGCCCAGGAGAGCCGGAAAACCGAAAGGAGAAGGAAGAAA G G AAGGGGACGGAACCAAGGAACCAAGAAAAAACGGAAGAAAAG G G A A A A T T G GAGAAGGAGCCAGAAAGAAACAAGGGGAAAGA G $C \subset A A G G A A G G G G A A G G A A A G A A G G A A C G A G A A G G A A C C B G A A$ G GAAGAAGCACCAACCAAAAGAGAGAAAAAGAAAGAAGGBAA A A A G A A G G GCGGGACCGAGGAAGGGGAAAAAAAA GAAAAAAGG A A G A G A A G G A A A G G G G A A G G G G G G A G G A A A A G GA G G G A A A G G $G G T A G G G G G A A G G A G G G G G A A A A A A G A A C G A A G G G G G G G G G G$ GAGGAAAAAGAAGGGAAGAGGGCAAAGGAAAGAAGAGGAAGAG C C A A G G G A G G C A A G G G A G A A A A G G G G G G G G A A G G G G G G A G A A G GAGAAAAGAAGGGGAGGGGGGAAGGCCGGAAGGGGAAAAGA G GAAGGGGAACAGGTTAAGGCAGGGAAAAAAAGGAAGGAAAA
 G G G G G G G G G G G G A G G G A A A G G G A A GAAAAAAC A A A G G G A A G G G $G G T A A A G G A A A A G G A A C C G G A A G G A A G A G A G A A A G G G G E G A A$

A A G GCCGGGGGGGGGAGAAAGGAGGGACGAAGAACCCCAGAA C C A G G A A G A G G G A A G G G G G G G G A G G G G G A G G G G G G G G A A $\mathcal{A} A A$ G G G A C C G G G G G G G G A A G G T A A A G GAA G GAACCGGGGAAAAAA A G G GAGGAGGAAGAGAAAAGAGGGGGGGAAGGCCAAGAAAGA G G GAGAGCGGCCAAAAGGAAGGAAGGCAGAGAAAAAAAAGGG G GAA A G G G G G G G G A GAAAAGAGGGCCAGGGAAAAGACAACAA A A A A G GACAC G G A A A GTTAACCGGCAGGGGGGAAAAGGCAAA $G G C C G G A A A A G G G G C C A A A G G A A G G G A G A A G A G A A A A G A G A A$ AAAAGGCCAAAAGGAAAGGAGGGGAGAACCAGAGAAAGAAGG A G TAGAGAGGGGGGAAGGGGCCAAGAAAAAGAGGACAAAAAT $C \subset A G G A C C C C C C G G G G G G A A G G C A G G G G A A G A G G A G A G C C C C$ A G G G G A A G GAGGGAAAAGGAGAGAAAGAACAAGGAAAATAAG A A A C A GAA A G G G G GAGAAAGCAAAAAAGGAAGAAGGAGAATA G G G GCAAAAGAGAAAAAAGCCGCCGGAAGGACAAAGCCAGBA AAAA $A \operatorname{A} G A G A A A G G G G G G A G G G G A G G A A G G G G G A A A C A G G B A$ AA $A$ A G G GAACCCAGGCAGATGAGGAAAAGAACAGAAAACAAA
 A A A A G G G G A C A A A C G G A C G A G G A A G G GA G G G G A A G G A T G G C C AAGGGAGGCCTTCCGGCCAAGGAGAGAGGAAGAAGAAGAGAG G G A A A A G G GCCAA GAAGAACAGAGGGAGCCGAAAGAAAGAAG AAAGGAAAAAAGACGAGAAGAGAGGAAAGACCAAGACAAGCC AAAGGAGACCAACAAGAGAAAACCACAAGGAAAGGAGAAGAG G G G G C C A G A A G G A GAA $A \operatorname{GGGGAAAGAAAAAACCGAGGAAGAAA}$ GAGGGGCAAAAAGGAACAGGGGGGCCGAAAGGAAAAGAACBG GC G G G G G GCC G GAA A G G GCCGGCCGGAAAAAACCAAGGACAA A A A A A A A A GAC GAAAAAAAGGACCAGGGGGGAAAGGAGAACA AA G GAGAAAACCGCAAGGAACCAAAAGAAAAAAACCGGGGGG A A G G G GAAAAGGCCGAGGGGTAACAGCCAAAAAAGGGGAAAG AAAGGAAGAAGGGGAGCGGGAACCCCATGGGAGGCCAAGGAA AACCGAAAAAGGGAGGAAGGGGGGCCGGGGAAGAAGCCAAAA $G G C C G G G G C C G G G G A A C A A A G A A A G G G G G A A G G A T T G G A G G A$ $A C G A T T G G A A A C G A A A G G G G A A G A G G G G G A G G A A G G G G A G G G$ GAAGGAAGAAAACCGGAGAAAAGGGAGAAGAAAGGAACAGAC A A GA $\operatorname{A} A \mathrm{~A} G \subset A A G G G G G G A A G G A G A A G G G C C A A G G A G C C A A A A$ A A A A G G G G G G G G A G A C A A CAGACACCGGAAGGAAAAGAAA G G AAAGGGGGAAAGAGAAGGAAGGAACCAAAGCAGGGAGAACAC G G GAGGGAGAAGAGGAGGACGGGAGAAAGGAAAGGACCACAA GAGAGAAGCAGGGGGAGAAACCAAAAGGGAGAAGCAAAAGAG G GCGCCAGGCGCACAAACAGCCGGGGGGGGAAAACCAAGGAA $A C G A G G G G A A A C G G G G A A A A A A G G G G A G G G G G A G G A C A A A G A$ GACCAGGAAAAAAAAAGAAAGAAAGGGGCCAGGGCCACACAA G G G G A A T A G G A G A G G G G G G A G G G G A A G G A T A C G G A A A C G G A A AAAAGGGGAGAAAAAAAGGGAAGGAAGGAAGGGAAGGGAGGG
 G G A A A A A A G G A A C CAA A GAAGGGGGGCCAAGACCAGGAAA G G A A A A A A A A G A A A A A A A A A G GAAACACAAGGAAAAAGGAAAAA A G A A A G G A G G G A A A A A A G GAGACCCCCCGGACAGCCGAAAG G GAGGGGAAGAGAGAAAGGAGGGAAAAAAGGAAGGAAAAAAAA AA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} G C A C C C A G G G A G A C C A G G A G G G G G G G G C A G G G G$ A G G G G GCCTTAGAAAGCAAGAAAAAAAAAACCGGGGAAAA G G AAAAGGGGAAGGAAGAGGAAGAAAGGCCGAAGGACAAGAAAC GAGGGGCCAAGGAGAGAAAACCAGACGGGGGGGAAAAAAACC ACGGGGAGAAAAAGAGAAGGGAGACGACACGGAGCCABCAGB $G G C C A A C C G G A A A A G G G G A A A A A A C C A A G A A G C C G A A A A A G G$ A G GAA A A A GAGGAGGGAGAAAAGGAGGGGGCCAAAAACAAGA AA G G A A A A A GCAAAGGAAAGAAAAAAAAGGGGGGCCGGAGAG GA $A G G A T A G A G G A G G G A A C C G G G G A A G G G G C A A A A A G G A A G G$ AGCCGAGAAACCAGAGGAAAGGAATAGAGGAAAACCAAAGAG AAACAGAGAGGAAAAGAAGGGAAAAAAACACAAGAACAAGAA

AAGGGGGGCCGGGACCGGAATTAGCCGGGAAAAAAAGGGBAA GC $C$ G A C A G G A G G G G G G G G G G G G A A G A G G A G G G C C A A G G A G C C AAAACCAAAAAACCAAGGGGGAAGCAAGGAAGCCCCGAGAAG A GAA $A$ GAA $A G G G A A G G A A C C G G A A G G T T A A G G C C G G G A G G C C$ GAGAAAGGAAAAGGAAGGAGGAAAAACAAGAGCAGGCACCCC A A C C G G A A C C G G T T T T G G A TACAAAAA G TAACCCAA G G CA CA A GCCGAAAAGAAAAGGCCAAGAGAAGAGCCAAAAGAAAGGGG $G G A A A A A A A A A A G G G G G G G A A G A A A G A A A C C G A A G G C A A A G G$ A A G GA GACCCAAAGGAGGAAGGGAGCAAGAAGAAACAGGGGG1 AAAGGGGGAAGAAGGAGAAAAAAAAGAGAAGAGAGGAAGGGG G GAAAAAAGGGGAAAACCCCGGAAGGAAGAACACGGAAAGAG A G G G C C A G G G G G A A G G A A A CAC G GAGGGAC G GAA A A C C C G G G G GAAAAAGGGGGGAAGGAAGGAAGGAAAAGGAAGGAAAGAGAG $A C G G C C A A A A A C G G G G A A G G C A G G G G A A A C A G A A G G A C A A G G$ G GAAAAAAAGAAAAAAAAAAGGGGAAGGGGAAAAAGAAGGGG G GAA $\operatorname{T} T \mathrm{~T} G \mathrm{GA} A \subset C G G G G A A A A G G G G G G C C G G C C A A A A G G G G G G$ A A A A A A A ATTGGCCGGCCGGAAAAGGAAAAAAAAGGGGCCGG A A A A G G G G G GCCAAAACCGGAAGGAAAAGGGGGGGGGAAAGA $G G G G A A A A G G A A G G A A A A G G A A G G G G A A A A G G A A G G G G A A A A$
 AAAAGGAAGGAAGGAAAAGGAAAAAAAAGGGGAACCGGAGAA A A A A A A C C C C G GCCGGGGAAAAGGGGGGGGAACC G GAAAA G G G GAA A G G G G G G GAA $A \operatorname{GGA} A A A G G G G A A G G A A G G A A C C G G A A G G$ G GCCACAGGGGAAAACGGCCGAGAGGACGGAAGAAAGGGGGG A A G A A G G A GAGGGGAGGGAACCGGGGAAGAAGGAAGCAGGGG
 G GAGCCAAAAGGGGAAAAAAAAGGGGAAACGGGAAGACAAGA G G G A G A A A A A C C G G A A G G G G G G G GCCAAAAACCGGAAAAAAAA
 $T \mathrm{~T} G \mathrm{G} A \mathrm{~A} A A A G A A A A G G A A A G G G A A A G G G A G A G G G G A A C A A G A$ G GAAGGCCGCGACCAACGCCAGAGAGCAGGAAGGAGCCAGAA AA $A$ A $G A G A A A G G A G A A A C G G G G A G G G G G G G G A G G A A A G A A G A$ AA GAACAGGAACAGAAGGAAAAAAAAAAAGAGCAAGGGGGGA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAAGGGACGGGGGA GAGAGAAAAAAAAGAAGGAAAGAAGGCCAGGGAAGACCAAGAG G G G GCCAAGGGGGGCCAGAAACAAAGGAGGAAGGAAGGAGAA GAGAAAAAAGGGGGAAGGGGAGGGAGAAAGGGAGAAAAAACA A G GA GAAAAAAGGGAAGGAAAAAGAAACCCACGAAGA
GACAGAGCACAAGAAAAAAAAAAGGCAGGAGAAGGAAAACG AAAGAAAAAAAAGGAGAGAAAAGGGAAAAACCGGAGCAAGAA A GCAGGCCAGAGAAGGGGGGGGAAAAACGAAAAGTAGACA G G A A A A G GA GACCGGAGAAAGCCAACAGAGGGAACGGAAAAAGACAT G G GAAAAAGAGGGGGGCCAAAAGGGGAAGGGGAAAAGGCCCC G G A A G G G G G GCC G A G G G G G G G G A G A C G A A G C A GAC C G G A G G G
 A GAGGAGACCGGAACCACCCGGGAAGACGGGAAAAGGGGGGG AAAAAAGGAGAGTAGAGGAACCAAAAAAAAAAGGGGAAAAAG C C A A A A CATTGGCCAGAAAAAAGGGAAAAAGGCGAGAACAGA A A G G G GCC C G A G G GAGGGGGCAAGGAGAGGGGGAAGAAACAA A A G A G G G G G G A A G G C A A A A A GAAA A A GAGGGGGGAACA G G G G G GAAAACCGACCAAAAAAGAAGCCGAGGAGAGCCGGAAGAAG $G G A A A A G G A A C C G G G G G G A A A A G G G G A A G G G G A A C A A A G G A A$ A A A A A A A A T T C C G G G G G G A A A G G A A GAAGGAAAGAACCAAAA GGCCAAGGGGAAGGCAGGACAAAACAAAGGGGAAGCGAGGAG $A A C C G G G G A A A G G A G G A A G G A G G G A A A A G A A A C C A A G A A G A G$ A A A G A A G A A A G A G GAGGGACGAGGAGGGCACAGGAAAGAACC GAAGGGGGGGCAAAGAGGAGGAAAAGCCGAGGGGAAGAAACC A A A A A A A A A GAAGGCCAAGGACGGAGAAAAAAAAGGCAAAAC $G G C A C C G C A A A A A G G G G G A A A A G G G G A A G G T A G G A A G G A A G G$

G GAGAGGAGAGAGGAAGGCCCCAGAGGGAGAGGGAAAAAACC A A A A G G A A G G A A $\mathcal{A} G A A G G G G G G G A G A G G G G A A A A G A A A A A A G$
 G GACGAGGAGGAAACAAAAGCAAAGGGAAGGGGGGGGGAAGA A GACA GAA A A GAAAGGAAAAGGAAAAAAAAAAAAAAAA G GAAA A A G G A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G C C A A A A G G G G C C A G A A$ G GAA $A \operatorname{GAAAAACCAAAAAAGGAAAAAAAAAAAAGGGGGGGGGG}$ AAGGAACCAAAAGGAAAAAACCGGAAAAAAGGAAAGAACCAA A GAA A C G G GAGGGGAAAAAAAGAGACCCAAAAGGGGAATACC GAAAAGACGGAAAGGGAAAAAGCCGAAAAAGGACGACAGAAC $C \subset G G G G A C G A G G A G G G A G A G C C G G G G G G A G G A A G A G A A A A G G$ GAAGAGAAGGAAAAAAGGGGAGGGGGGGAAGAGAACGGTXAA G G G G A A A A A A G G G G C C G G G G C C A G G G A G CAA A CA G GACAAA $A$ G GAAGGCCGGAAAGAAGGGGAAGACACAAGCAGAGGCAAAAAG ACGGCCAAAAAAGGAGAGAGAAAGGAAGGGGGGGGGAGAACC G G G GAAAA $A \operatorname{A} G \mathrm{G} A C A A G G A A C C C C G A G G A A G G G A G G G G G G C A$ C C G GAAAA $A \operatorname{A} A A A G A G G G G A G C A A G A G A A C A A G A C G G A G G G G G$ C C A G A GAAAGAGAGAGACGGGAGAGGGGCCAGGGGGAAGAAA AA $A$ A $\operatorname{A} A G A A G A G A G G A A G G G G G A G A A A G A G G G A A G A G A A A A A$ A GAA $A \operatorname{GCC} C \subset C \subset G G G G C C G A A G G G G A A G A G G A A G G G G A G G G G$ G GACGACAACAAAGAAAGAGCAAGGAGGAGGGGGAAGAAAGG G GAAA A A C GAGAGAGATAGGGGAAAAAAGGGGAGAGAAAAAG G G G G A A G G G A G G A A A G A A G A A G G G G G G A G G A G G G C A A A GAA A G G A A G G A A G A G G G G G G G G G G C C G G A G G G G G A A G G G G A G G G A A A A G G G G A A G A A A G G G G G A A G A G G A G G A A A A G G G G C A A A A G G A G G G G G A G G GACC $C$ G GAGGAGGAAAGAGAAAGAAGAAAAGAGCC CCCGAGAGAGAGCCAACCGGGAAGGAAAATGGAAGGGGGGAA A A G G G A G A C C G G G G C C A A GAG GAAAAACCAAAAGGGGGGGGAA
 G GAAGGCCAAAAGGGGGGAAAAAACCGGAAGGAAGGGGAGAA A A G G A A A A G GCCAAAAGGGGCCGGGGAATTAAAACCAAGGGG G G G GAA AGCCAAGGAACCAAGGGGAAAAGGAAAAGGAAAAGG A A A A A ACCAAGGGGGGAAAAAACCGGGGAAAAAAGGCCCCCC A A C C A A G G A A G G G G A A A A G G G G G GCCCCCCGGAAAAAA G GAA A A G G G G A A A A C C A A G G G G G G C C A A G G A A G GCC G GAAC C G G G G G G A A G G G G G G G G G G C C G G G G G G A A C C A A G G A A G G G G G G C C G G G GAAAAAAGGGGAAGGGGAAGGAAAAGGCCGGAAGGCCBAAA $C \subset A A A A C C A A G G G A A A A A A C A G A G G G G G A C A A C A G G G A G G G G$ G G G G G G A A G G A A G G C C G A A G G G G G G G A A A A A A $\mathcal{A} G G C G G G G A A$
 G G GAAAGGAAAAGGAAAACCAAACAGAAAAAAAAGAGGGGGG A A G G G G A A A G G A G A A G G G A A A G G G A A A A G GAA $A \operatorname{AGGGACAAAA}$ G GAGGGGGGGGAACCAGAGGCAGGAAGGGGGGAAAAGGAAAA A A A A G G G G G G A A G G A A G GAAAAAAAAAAAGGGGGGGGGAAA G G A A A A A A G G G G G GAAAAAAAAAAAGGGGAAAAGGAAAA $A A G G G G G$ G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A GGGGAAAA G G G G G G G GAAAAAAGGGGGGGGGGCCCCCCAAGGGGGGGGAACAAA AA $\operatorname{Ag} \operatorname{Gg} \operatorname{GAA} A A A A A A A A G G A A A A A A A A A A A A A A G G A A A A G G A A$ AA G GAA $A \operatorname{GAA} G G A A A A G G A A A A C C A A A A A A A A G G A A G G G G C C$ A A A A A A A A G G A A A A A A G G G G G G A A A A G G A A A A A A G GAA G GAA G G A A A A A A G G G G G G G G A A A A A A G G G G G G G GAAAAAAACAAAAA
 G G A A A A G G A A G G G G A A G G G G A A A A A A C C A A A A A A A A G G G G G G AAGGCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAGAAA G GAA A G G G A A G G G GAAAAGGAAAAGGGGAAGGAA G GAGAAA G G A A A A G G A A G G G GC C A A G G G G G G A A A A G GAAGGGGGGAACAAA A A A A C C G G A A C C G GCCGGCCGGGGAACCGGGGGGAAGAAA G G C C A A G G G G A A A A C C A CA A A GAC G G GAAAAAAGACG GAAA A G G AA $A G A G G A A C G G G G G G G G G G A A C C A G A G G G G A C C C C G G G G G G$

AACCGGAAAAAAAAAAAAGGCCAAAACCGGAAGGGGGGAAAA
 AA G GAAGGAAGGAAAAAGCACAGAAGGGAAAAAAAACAAAAA AAAAAAGGGGTTGGGGAAGGAAAAAAGGAGAAAGCAGACCAC AACAGGGGGGAACAGAGGAGGGGACAGAGACAGAAAAAAGAG
 A A A A G G G G A G G GA GAGAAAAAAAAAAAAGAGGAAAAGGAGAA G GAAGGACAGAAAAGGCCGGAGAAAGGGAACCAAACGGGGGA
 GAAAAAAAGGAAAACCGAAGAGGGAAAGGAACAACCAAGGGG G G G GAGCAAGAGCCAAAGGGGAGGAAGAGGGGGAGGACAAGG A A A C G G G G G G G GCC G GCAAAAAGGAAAACCGGAACCCCAGBA $A C \subset A A G G G A G G G A A A G A T A G A A G G A G A G G A G A A G A A G A G G G G$ G GAGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGAAAAGAGGG AGGAGAGGGGGGAAGGAAAAGGGGAAGGGAAGAAGAGAAGGG GACCACACGAACAGAGAAAAAGAGCCCATTAAAGAAAGAAAG CA $A$ A $\operatorname{G} A A G G G G G A A A C A G A A A G G G G A G G G G A G A G G G G G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAACGAGGAAAAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAGGG G G A A A A A G A A G G G G GAGGAAACGGAAGAGGAAAC GAAAAACC AAGGGGAACCCCGGGGGGAAAAGGGGAATTGGAAAAAAAAGG A A G G A A A A G G G G A A G G A A A A G G A A G GC C G G G G G G A A A A G G G G G G G GCCCCGGCCAACCGGAAAAGAAGGAGGAAGAAGACAA G G A A A A GAAGAAAAGGCAAAAAGGGGAGCAAGGAAAAAAAACAA A A GAAACCGGGGAGAGGGGGAAAGCCAGAAGGGAAGAGAGAA
 GAAAGGGAGGCAGGGAAAAAGAGGAAAACCCCGGAACACAGB
 GAAA A GAA $A \operatorname{A} G \mathrm{G}$ GAAAAAAGGGAAAAGGGGAGGGA$A A A A G G G G G$ $G G A A G G G G A A G G C A G G A G A A G G G G A G A G A C C C G A G A G G A A G G$ A G A G G G G G G A G A A G A G A A A A G G A A A A A A A A G G G G G C C G G G G G G A G G GAACCACAGAGGGAGAAGAAGAAGGGAGGGGGGGGGAGG ACGGAAGGAGAGGAAAGGAGCCCAGAAGCCCCAACCAAACAA G GAAAAGAAAGAAAAAGGCCGGAAAAAAAAGGAAAAGBAACA AACCCCGGACAAGACAAAAAAAAAAAAAGGGGGGGGTTGGGG AAAGAACCGAGGAGAGGGAACAGGGAGAACGAAGAGAAACGG G GAAAAAAAGGGAACAAGAGAAACAAGAATCAAGAGAGCAAA GGAGCCAAAGAAGGGAAGCCAGGGAAGGGGAAAGGAA
A GAGAAGGAAGCCCAAGGACCGAGGAGAGGAAAGGGGGAGG A GCCAGCCAACCGGGGCCCCCCGGAAAGAAAGAGAACAAAAA G G G G G G G G G A G A G A A G G G C C G G T T A A G G G A A GA A A G G G A C G G A G G G T T A G A A A A G A A G A A A A A A GAGCGGAAGGGGA G GAA A A A
 A GAGCCGGGGAAAAAAAGTTGGGGGGCCAGCCGGCCAAGGGG A A A A C C A A A A A A A A A A A A G G G G A A A A G GAA G GAA G GAAAAAA
 AAGAAAGAAGGGAAAAAAGGAGGGCCGGGGGAGAAAAAGGAA A A GAGAAAGGAAGAGGAGAAAAGGAAGGGAAAACAAAAAAAG G GAA ACGGAGCAGGGGAGAAGAAGGGAAGGAACAA GAGGGGG
 T TACGGAAGAGGAACCGGCAACGGAGGACAGAAGGGAACCAG AAGGGAGGAAAGGAAGAAAAGGCCAGAAGGCAGAAAGGACAG A A G G A A G G A A A A T A G A A GAA $A \operatorname{AGGGGGAGGAGGAAGAAATTCG}$ AAGGACGAGGGGAGGGCCAGAAGAAAAAGATTAGGGAGAGAA
 C C G G G G G G A A A A G G G G A A G GAAAA A G G G CA A A G G G G G G A A T T G GAACCAAAAACGAGAAAGGAAAAGAAGACACAGAGGGAAGA $A C A A A G G A A G G G A A G G C C G G A A G G A G A A C G G G C C A A G G A C A B$ $C \subset C C G G G G A G G G G G G G A A A A C C A A A A A A G G G G G G A A G G C C A G$

AAGACAGAAGGGCAGACCAACCTAGCGAGAGGAAGGCCAAGB AAGGGGAAGGAACCAACCAAAAAAGGCCCCCCGAGGGAAAAC G G G G A A G G G G G GCCAGCCCCAAAAACGGAAGGAAAAGAAAAA GAAGGGCGAGAACCAACCAAAGTTGAAGAGAAGAAAAAACAA A GAAGAAGAGACACAGGGCCAAAAAGGAGGGGGGCACACAAC A A C A G G G G A G A GAGGAGGGAAACCGGGGGGAGGGAGAAAGAA
 AAGGAACCGGGAAGAAAGGACGAAGAGGGAGAAAAAAAAACA
 AAAAGGGGAAAAGGAGGAAACATACCAGGCAAACACAAAGAA A A GAA A A GAAATAAAGAAAAAAGGGGACAAAGAAAAGGAACC A A A A A A A A A A C CAAAACAGGAGAAGAGGGAAACBAAGGAGGG GAGAAGCCAAGGAAACAAAAACCCAAAGGAAAGGGGAACABA A G G G G A G G A A G A A A A A G G CA A C A A A A A A C C G G G G G G G G G G A A C C G G G GAACAGGGGAAAAGGGAGAGGAAAACCAACCAAGGGG G GAGGGCCGGAGAGGGCCGGGGAAAAGGAAGGAAGGAACCAG GATAACGGCCAAGGGGGGAAGGACGGGGAAGAGGAACABGAA A GAGACAAAGGGGGGGAAGAGAGGAAAGCCCCAAGGAGAAAA G G G GAGAACCAAAAAAAAAAGGGGAACCGGCCAAAAGGAAAA A A A A A A G A A G A A G G GACACCGGAGGGGGAGAGGGAAAAAAGG G GAGAGCAAGGGAAAAGGAGGGAAGGAGGAAACCAAAGAGAA G GAAAACCGGAAGGAGGGACGGGGGAGAAGAAGGGGAGGGAA A A GAGGGGACGGGGGGAAAAGGAAAACCAAAGGGGAAAAGGA
 GGCACCGGAGACGGAAAAGAGAGGGAAAACGACCAAGGAAGAA A GAAAAAAGAGGGGGGCCGGACGGAAGGAAAAAAAAGAAAAA AAAAACAGGGTTGGGGAAAGCCAGAGGAGGCAAAGAAAAAAG G G A A A A G GCC G A A A G G A GAGAAACGGACGGGGCAAAAA G GAA A A A G A A A G A A A A A GCCGGGGGGCCAAGGAAGGCCAAGGAGGC AAGGGGGGAGGAAAGAAAGAAGAGCCGGAAGGGACCGGAGAA
 $C C G G A A G G A A G G G G C C A A C C G G G G G G G A G A G A A G A G G G A G G G$ A G GAA A A A G GAGGGAGGGAACCGGGGAAAGAACCAAAAAAAA A A G GCCAGATGGACGGAAGAAAACAAACGGGAAGGACCAGAG C G G G G A A A A G A GACA $\mathcal{A} G G A A A A A A G A A A A G G G G C C G G A A G G G G$
 A G G GCAAA $A \operatorname{A} G A A A A A A G G A A A G A A A A G G G A A G G G A A A A G G G G$ AAAGGGGAAAGGAGGAAAGAAGAGAAAAGGAAGGGGGAGGGG GAGACAGGAAGGAAGGCCCCGAAGGAGGCCAAAAAAAAGGCC G G G G A A A A A A G A G G A C G A A GCCAGGAGAGAAGCCAAGGCAAA $G G A G A A A A G G A A G G A G G G G A A G C C A C G A A G G G G G G G A A G A A G$ A GAA $A \operatorname{GAAAAGCCGAAAGACAAAGAAGGGGGGGAAAACAAACC}$ GAAAAGAAGGTAAAGGGGAGAAAAAAAGAGGGAACCAAAAGG A A G G G A A A G A G A CACAGGGGGGCCGCCCGGGAAAGGGAAGAG
 $G G A A G G A A C C G A G C A A G A A A G A A C G G G A G A A A G G A G A G C C G G$ AA $\operatorname{A} G A A A A A A G G A A A G A G G G G G G G C C A G A A A A G G G G A C A A C C$
 G GAGAAGGAACCAAGGGACGCAGAGGGGAACCAAAAGGAGAA G GAA A GAAAACCCCAAGGGGGGGGGGAAGGGGGGAAAAGGCC G G A A G G G G G G A A G G G G G A A A A A A A $\mathcal{A} G G G G A G G G A A A G A A A G G$ G G G GAACCAAACAGCACAAGGGCAAGGGAGAAGGGGCCAACC G G A A A G G A A A A A A A A A A A A A A A GAAAGGAACCAAAAAA G G C G GAGGAAAGAGACGAAGGGGGAGGGAGGGGGGGGGCCGGGAGA GACCCCGGCCAGGGGGCAAAGGCCAGTTGAAAGAGGCAGAGG GAAGAGCCAACGAGAAAGAGAAGGGAGGGGAGGGGAAAAGCC GAAACCGGCCAAGGCCGAGGAAGGAAAAAGAAAAGGAGAAGG G G G G A GCAA A A A C C C C G G G G G C A A G G G GA G G G C C G G A A G G A A $G G A A A A A G A C A G A A G G C C G A A G G G A G G G C C G G G G G A G A A A A A$

CAAAGAAAAAGGAACCAGAGGGAGCCCCGGGAAAAAAAAAAA A A G G G GAAA A G GAA A GAGGAGAAGAAAGGAGGGGCCAAAA GA GAGGGGGCCAACAGAACGAAAGAAGGGGAAAAGGAGAAGAAA AAAAAGCAGGGGAGGAAAAAAAAGGGAGAACCGAATGGAAAC AC GAGGGGGAAGCCGGAAGGGAGACGGAACAGGAAGCCAGGG A A GAAAAACCCAGAAAAAGGGGCCAGGAGGCCCCCACCGGGA GAAAGGAACCAGAAAAGGGAAAAAAGAAGGAACCAGAGAGAA AAGAAAGAAGAGGGAAAAGACCCCAGGAGAAGACAGAAAAAC GAAAATAAAACCGGGGGGAAGAGAAGAAGGCCGGGGAATAAA AAAGGGGGCAGGGGGACCGGTTCCAAGGAGAAGAGGAGGGGG A GAGGGGGAAGAGGCCAGAGAACCAGGGGGCAGAGAAGAGAA A A A G A G A A A A A G G A G G G G G A A G G G G G A G A A A A C C A G A A G G G G $G G C C A G A G C A G G A A G G A A G G G G A A G G G G A A A A G C G A G G A G A A$ G G G G C A G G G A A A A A C C A G A A G G G G G A A A G G A T G G G G G G A G A A AACAGGGAAGAAGGAGAACCGAGGGGAGACCCCAGGAAGAAA GAAATACCAAAAACAGAAGGGGAGGAGGCCGGAGGGAACCBG AACCACCCAGGAGAAAACGGAAAAAAGGGAGGGGAGAGAAGA C GCAGGCCCACCAGAAGGGAGGAAAAGAGGCAAAAACCGGCC $G G A A G G A A A A G G A G C C G G A A A A A A A A G G A A A G A G A G G A G G C C$ GAAAA AAAGGGGGGAGAGGAGAGAAGGAAGAACCGGAAAGAA $A C G A A G A G T A C A G G G G G G A C G G A A G A A G C C A G A C A G A G G G G G$ A A G G G GA $\operatorname{A} A A A C A G G G A G A G G G A G G G A A G A A A G A T T G A A C G G$ A A A G A A G G G G G GACGGAAGGAGGGGAGAGAGGAAAAGGACAA CA $A$ A A $A G G A G G G G G A A A G A A G G A C A A A A A A C G G G G G A A A A G A$ A GAGAA $A \operatorname{G} G \mathrm{G}$ GAAAGAAAGCCGGGAGGGACCGAGGGAAACAGB G GCCAGAAAGCCGGGGGGAAAAAAGGGAAAAAGGGGAGAAAA ACAAAAGGAAAACCGGCGAAGGGGAAACGAAGAAGAAGAGCAA
 A A A A G A G A GAA $A \operatorname{A} A G G \operatorname{A} A A G A A G A G A G G A G G G G G A G A A C A A A$ A GAAGGAAACCCGAAGCCGGAGAAGGGAAGAAAAAAGGTTAG A A G G A A G G G GCC G G A G G GCCGGGGAAGGCCAAGGAAGAAAGG AAAAAACCCCGGGGGGGGAAAACCAAAAGGAAGGAAGGAAGG A A G G G G G G A A A GCCGGGAGAGACCACGAGAGAACAGCCAGCC $G G A A A A G G G G G G A A A A A A A G G G G G G G C C A A A G A A A G A A G G A G$ $G G A G A G G A A C G A A G A C G G G G G G A A G G A A A C G G G G G A A G G G G G$ AC G G G G G G G A A GC C G G G G G G G G A A A A A A A A G G A G G G C A C A A A A G G GAA T T G G GAAAAGGAAGAGCCAAAAAAGAAAGGGGAGGG GAAAGAGGGGAGAGGGAAGACAAGAAAAAAGGGGACG
$G C \subset A A A G G G A A A G C C G A A A A A G G T A G G A A G G C C A C A A C A A A$ CCAACCAAGGGGAATAAAAAGGGGAAAAAAAAGAAAGGGGAA A G GAGGGGAACCGGGGAACCAAGGAACAGGAAAAGGCCAA G G C CAAAGAAGGCCGACCAAGGGAAGGGAAAAAAGAGGAAAAGA AGGAGAGACAAAGGAGGAGGAAAAGGGGCCCCGGAAAAAAAA A A A A A ACAGGGACCAGGAAAAGCCGGAACCGGGGGGAAGGAA G G G G G A G G GAGGGAGGAAAAAGAAAAGAAAACAAAAGAAAGG GAAGACAAGAAAGGAAAAGAAGAAAAAAGGAGGGGAGACAAA A A G G A A GAA $A$ A A $A G G G G A A A A G G G A A A A A A A A G A G A A A A G G C A$
 TAGGAAGGAGAGAGAGCAAAGAAGAGCAGAAAGGGACAAAAG A A A G G G G G A A A A G G G G GAGAAGGAAAAAAACCGAGAACAGAC CAAAAAAAAAGGGGGGAAAAGGAAAAGGAGAGGGAAGGAGAA G G G G G G G GAA $\operatorname{G}$ GAAACCCAGGGAAGAAGAGAAGGGGGGACAA A G G G G A A A A A A A A A C C C C G G G G A G G G A G A A G G C C G G A A G A G A AAAAAAAAGGAACCGGGGAAGGGAGAAAGGGGAAAGAGAGAA
 A A G G T A G G G GA $A \operatorname{GA} A G G A A G G A A G G A G A A C G A C C G G G A A A A G$
 A A G G G G A A G G G G G G G G C C A A G G G G G G A A G G A A G G G G G G A A G G AAAAAAAGACAAGGGGAAGGACAGGGAGAGAAGGAAAAGGAA

C C C C G GAGGGAGGGAGGAGGCCAAGGGGCCAGAAAAGAAAAA G G G G G G G G G G G G A A A A A A A G G G G A A C A G G A G G G G A G A G G A G A A G G G G G G G G G G A GA G CA A A A C C C A A A GAGGGGGACAACC G G G G GGGACCACCAAAAAAGAACCGGAAAAGGGGGGGAAAGGAGGG $C C G A G G G G A G A A C C G G C A A A C C G G A G C C G A A A A A G G G G T T G G$ G G GAA $\operatorname{G} A C G G G G C C C C G G A A A A A A C C A A G A G A G A A C G G G G G G$ G GCCAA GAGGAAAGAAAGAAGAAAAACCAAAAGGAGAAGGGG AAGAAGACGAGAGGGGGGGGAGAGAAACGGGACCGAAAAAGG G G A A G G A A G G G G A A G G G G A A G G G G A A C C G A G G G G G G A G A A G G GGAACCACAGGGGAGCAGGGGGAGAAAAACGAACGGGGAAAA GAAACACCAGACACGGAGAAGGGGGGCCGGCCAAAAGGGGAC AACCAAAAAGGAGACCGGGGACAAGAGAACAGGAAAACAGCA $A C G G G G A A G A G G A G G A A G G G C A G G A A A G A A A A G G G G G G A G A A$ $G G A A A A G G A A G G G G A A A T G G G G G G A A G A A A A G G G G G C A A A G A$ G GAGAAGAAGACAAGGCCAAGGAACCAACCGGGGGGAAAAAA AA $A \operatorname{GA} A A A A A G G G G G G G G A A A A G G A G A A G G A A A A G A G B C A A G$ A A A A A A G G G G A A G G G G A A A GAGAAGGCCGGGAAC GAA G G GAAG G G G G A A G A G G G G G G A A A G G G G A A G G A CAGGGAGAA GAACAAA A GAGGGGGAAAGAACCAAAAGGGCAAGGGGACGGACGAGGGC GAAGACGGCCCAAAACAAGGAAAAGGGGAAGGGGAAAAGGGG AAAAGGAAGGAAGGCCGGAAGGGGCCAAGGCCGGAAAAAAGG G GCCGGGGAAAAAAAAGGGGAAAAAAGGAAAAGGAAAAGGGG G GAAGGGGAAGGAACCGGGGAACCAAGGAAGGAAAAAAAAAA A A A A C C C C C C G G A A C CAAAAGGAAAAGGGGGGGGGGAAAAAA C C G GAA $A \operatorname{GAAAAAGGAAAAAACCGGAAGGAAAACCAAGGGGAA}$ A A G G G G A A G GAA $A \operatorname{G} G \mathrm{G}$ GAAAAAAGGGGGGGGGGAAAAAAAAAA AAAAGGGGAAAACCAAGGAAGGGGGGGGGGAAGGCCAAGGCC C C G G A A A A G G A A A A A A G GAAAA $A$ A GGGAAGGAAAACCGAAAAA
 G G A A A A G G A A G GCCAAAAGGGGGGGGGGGGGGGGGGAAAAAA A A A A A ACCAACCAAAAAAGGAAAAGGCCAAGGAAAAAAGAAA G GAA A G G G G G G G G G G G A A A A G GAA $A \operatorname{AGGGGGC} C A A B G G G G G C C$ G GAAAAAAGGAAAAGGGGGGGGCCGGAAAAGGGGCCAAGAAA C C G G G G A A A A A A A A G G G G G GAA $A \operatorname{GGAAGGGGAAGAAAAACAAA}$ A A G G G GAACCGGAAAAAAGGAAGGGGGGGGGGGGAAAAAAAA A A A A A A A A A A A A G GAAGGGGAAAACCAAAAGGAAGGAACCCC G G G G G G G GAACCCCGGCCAAAAGGGGAAGGCCGGAAAAAAGG G G G G G GCC C G G G A A G G G GAA $A \operatorname{GAAAAAGGGGGGAAAAAAAAAA}$
 G G A A C C A A A A A A G GAA $A \operatorname{GGGGAAGGAAAAGGCCAAGGGAAAGG}$ $G G A A G G C C G G G G A A A A G G A A G G C C G G A A G G A A G G A A G G A A A A$ A A A A A A A A $\mathcal{A} G G G G G G G G G G G A A A A A A C C C C G G A A A A A A G G A A$ AAAAGGGGGGGGAAGGCCCCAAAAAAAAAAAAGGCCAACCGA A A A A G G A A G G A G G G C C G A G G G G A A G G A G G G G G G G A A A A G G G G A A A GAC GCAA GAATAGAAGGCAAAAAGAAGAGGAGAGAGAAA
 AAAAGGAAAAAAGGGGAAAACCAAAAAAGGAAGGAAAAGGCC AAAA A GAA A GCCGGAAAAAGCCGAGGAGGGAAAGGAGGAGAA G G G G G GAC G G G A G G G G G G G G G G G G G G A G C C A A G G G G C C G G G G G G G G G G G G G G A A A A A A A A A A A GAGAC G G G G G GAGAACACCCC AAGGCCAAACGAAAAACGCCCAAAAAAAAGAGGGCCAAGGAG $C C G A C C G G A C A A A A G G A A G G A C G G A A G G A A G G C C G G A A G G A C$ TAA A A A G G A A A C G G C C A A A A A A A A A A G G G G GAGGCA GAA A A G A A A A A A A A A CAGAGCCGGGAGAAAAAGGGGAGGGGGGGGGGG G G G G GAGGAGAACAAAGAAGACGGGGGGGGAAAAAGAAAAAA G G G G A A G A C C A A A G A G G G A A A A A G G G A G G A A C G GAACC GA TA $A C A G A G T A A A G G G A A A G G G G G G G G G G A A A A A A G A C C G G A A G G$ G G G A T T A C A G A A A G A A A A GACCCCAAAAGGAGGGAGAAAAAC G G GAAAACAACCAAAGAGAAGGGGTTCCGGAGAAGGCAAAAG

CAAAAAACAGAGGGCCGGAGGAAACAAGAGGGGGAGAGGGCA GAACGGACAGGAAGAGACGGGGGAGGCAACGGAACAGGAAGG G G G G G G G G A A G G G G G A A G G C A C G A G G G G A A A A A A A G A A G G A A AAGGAGAGGGAAGAGGGACAGGAAAAGAAACCAAAAGGGGAA G G GAGAGAGGAGAGTTGGCCAGGGGGAAGGGAGGGGAGCCCC AACCAGCAAAAAGGGGAAAAGGCCAGAAAAGAGGGGAGAGAC G G G A A A G G A A G A G G A A A A G G G G G G G A A A T T G G G GAAC C GAA A A G G GAAAAAAAATTAATTGGGAGGAAGGGGAAAAACGGAGAA A G A G A G A A A A G GAA A GAGACGACCAAGGCAAAAAGEACAAAA TTGGAGGGAATTGACCGGCCAAAAGGGGGGAGGGGGAAAAAA A A G G G G G G G GAAAAAAAAAAGGAACACAGGGAGGAGAGAAAA GGCCGGCGCCAGAGGACAGAAGAACCAGGAAGAGAAAGAAAC G GAAAAGGAAAAGGGGGGAAAAAAGGAAAAGGGGAAGGAGAA GAAAGGGGAGCCAGAAGGAGCCAGAAAAAGGGAAGAAGAGAG A A A A G G G GAA $\operatorname{A}$ G GAAAAAAGGGGGAGGGGGAGGAAACGGAGGG GAAAGGCCAACAAAGAGGGGAAGGCCAGAAGAACAGAAGGGG G G G G A G G G G G A A A A G G G A G GAGGGAGGGACGGCCAGAACAAA GAGGCCAAAACCGGGGAAGGAGGGCCAAGACAGGGGGAAGAG $G G A A A A G G G G A G G G A A A C A C C A C C A G G G A G A G G G A A C A G A C C$ GAAAGAACAGAAAAGGGGCCGGAGGAAGGAGAGGAGAAAA GA AGGGGACCGGGAGGAGGAAGAAGGAAGGCCAAGAGGCCAGGG AAAGGGGGACGGAAAAAGAAAAGGAGAAGGACGAAGAAAGGG G G G GCAGAGGGAAAAAAACCCCAAGGAAGGAAAAGAAAAAGG AACCGGAACCAAAAGGAAAACCAAGGGAGAGGAGAAGAAAAG GAAGAAAAGGGAAACGGGGAGGAAGGGAGAAGAAAAACAAAA G GCCAAAAGGGGAAAAAAGAAGGGAAAAGAGGCCAAGACAAA $C \subset G G C A A C A A A A G G G A G G G A G G G G G G C C G G G G A A A G G G A G C C$ G G G A A C A G A G A GA G A A A G G A A G G A A G G G A A A C G G C C G A A G G G $A G G G G A G A G A G G G G G G G G G G C C G G G G A C G G A A G G G A A A G G G G$ CAGGAGGGGGAAAAAAAAGGGGGGGGGGAACCAGAGAAGGAC G G A A A GAAA A A A A A G G GAGGAAAAAAGACAGAAAA AAACGAG CAGGCCGAAGGGGGGGAAAAAGGGAAGGCAGGACGGAGAAAG A AAAGGAGGAAAAAGAGAAACCAGCCAGCCAAAAGGCCGGAC G G A A A A A A G G G G G GAA $A \operatorname{G} G A A G G A G G G G G A G G G A A A A A G G G G G$ A A A A A A G G A A G GCCAAAGTAAGGGGGAGAAGGAGAGGAGAA G A GAAAAGGAAAGAAGACAGAGGAAAAACAAGGGGAAAAAAGG AA $A G A A G G G G A A G G A G G G A A G G A A G A A A G G A A A A A G A G A A C C$ A A G G A GAA $A \operatorname{AGGGGGGGACAAAAAACCAGCCGGGGGGC}$
A G G G G A A A A A A GAAAAA A A A A A A A GGGGCCAACCAGAAGAAA CACCGAAGGGAAAGGCAACAAGGAGGGGCCGGAAAAGGAGAA $G G A A G G C C G G A A A A A A G G G G G G A G G G G G A A C A A A A G G A G G A A$ A A G G A A G G GAAAA A CAA $A \operatorname{A} G A A A A G G G A A A A A G G G G A A A G G C C$ A GAAGGGGACCCAAAAGGCAGGGGAAAGCCAGAAGGGAGAGG GAAAACGGAAAACCGGGGGGAGAAAACCGGGGGGGAAAACAG
 C C G G G A G G A G A A A G A A A G A GA G A C G G A G G A A A G G T T G G G G A G G G G G G A G G A G A A C C C G A A A G G G G G GAGAAGAAAAA A CAAAAA A G G GACCAACCAAAAGGGGGGAGCCGGGACCCCAGGGGGAAGA CAGGAGAAGGAGAAAGTTAAGGGGGGAAAGAAGAAGGGGGTT G G G G A A A C G G G GAA $A \operatorname{GGA} \operatorname{GA} A G A G A A A G G G A A G A A G G A G G A G A A$ $C \subset G G A A G G A A A G G A G G A G G G A A A A A G G A C C G G G A G G G G A G G G$ A G C C G G A G G G G G G G C C G G C C A G A G G A G G G A A G G A A A G G A G A A C CAGGACAAAGGCCAGCCAACCGGGGGAAAGGAGAAGGAGAA G GAAAAAACCGGGGAGAAGGAAAAGGGGAGGAGAAGAAACGG A G A A A A C A A G G A G G G G G G G G G G G A G A G G G G G A G G G G A A A A $G$ G A G G G A A G G A A G GAC $\mathcal{A} G G A G G A G G G C A A A A C G G G G A A G G A G A G$ G G G G A A G G A A A A GAGAAAGGGGAAAAACAAGGAGGGAAAAAA G G G G G G G G C C G A A G GCAA G GAA A A G GAAA A GA G G G GA G GAA A $G G A C C A A G A G A G A G A G G G A A G G G G A A A A G G G G A G G G G G G A G A$

A A A A A A A A A GAGAGAGAGAAGGGGAGGAACGGAGGAGAACAA
 A A A A G G G G G GAGAAGAAAGAGGGAAAGGACCCGGCCAAAGAG G GCAGGCAGGAACCAACAAAAAGAAGGGCCAGCAGAGGGGAG G G G GCCGGACGGAGCAGGAAAAGGGGGGCAAAAAGCGATCCC G G G A G G G G G A A A A A A A G G C A A A A A T T GA GAGGAGGGAGAAC C
 AAAAAAGGGGAAAAGGGAACAGGAAGAGGGCCAAGGGGGGGG A GAA A GAAAGCAAAAAGGAAGGAAAGAGGGAAAAAACCACAA $C \subset C C G G G G G G G G G G A A A G G A C C G G G G G A G G A A C A A G G A G G A G$
 AAAGGACCCAAGCAAGAAAAGGAAAAACGAGGGGCCAACCAA C CAA $\operatorname{CA} A \mathrm{G}$ GAAAAAAAAAGGGGGAGAAAAAAGGGAAGGGCCGG ACGGGGAGATAAAAGGGAGGGGCCGCGGAGGAAGAGAAGGGG AAAGGGAAGGGGAGGAAAAAGGAAAAGGGGAACCAAAGGGGG G GAA $A \operatorname{GCA} A A A G G A G A A A A A A A G G G G G G A A A G G A G G A A A C G G$ $C \subset A A A A G G A A C C C C A G G G C A A C G A A A G G A A A A A A C C G G G A G G$ G G G G A G G A G G A A G G G G CAAAAA A A G GAA $A$ A A C C C C A A G G G G G G GGGGAAAAAAAAGGCCCAGAAGGAGGAAAAAAAAGGGGAAGA A A A A A ACCAACCAAGGAAGGGGAAGGAGAAAAAAAGAAAA GA A GAAGGAAGGGGGGGGAACCGGAACGGAGGGGCAGGAGAAGG C CAA $A \operatorname{GGACCAAGGAAAACCGGAAAAAAAACCCCGGGAAAAG}$ A A GA G A G A A GACAA A GAAGGGAAGGGCCGGAAAAAAAAGGAA $G G A A A G A A G G A G G A G G G G A G G A A A G G G G G A G G G A G A A A G G G G$ A G GA $\operatorname{l}$ AAAAA A $A \operatorname{AGGGGAAGGAAAACAAACCAGAGAGAAGGAG}$ A ACCAAAGAAAAGGGAAGAAGAGGGGCCGGAAAAAACCGGCC AA GAAGGAAGCCCCACAAGAGAGGAGAGAAAAGAGGGAAGAG CACA $A \operatorname{A} G A A G G G G G G A A A G A G G G A A G A A G A A G G C C G G A G A A A G$ G G A A G G G G A A A G A A A A A A G G G G G G G G G G G G G G T T G A A G C C C C $G G C C A A A A G G C C G A G A A G G A G G G G G A A G G A A A G A G A A A G G G G$ AAA A A GCGAAAGGGGAAGAGGGAGAAGGGAAGGGACAGCCGG G GAGAGCCAAGGCCAGAACAAGGAGGGACAAAAGAGGAGGAG A G GA $\operatorname{A} G \mathrm{G}$ GACAAGAAGGGGGCAAGAGCAAGACAGACCCCGAG G GAGAGAGGGGGAAAAGGGGAAGGGGAGAGCGAAGGGGAGAA
 GAGGGAGGAACCGAGGGGAAAGAAGAAAAGCAAAAAACAAGG G GAACCAAACAAAGGAAAAGGGCCAAAACCAAAAACCCGGAG $C \subset A G A A G G G G G A A A G G C C A G G G A G A G A A G A A A A A C C A A C A A A$
 G GAAAGAAAGAAAGAAGGACCAAGGGAGGGAGAACCCCAC GA A GAGCAGAAAAGCCAAAAAAGGAGATGGGGAAGGAGAAAACC $A G C C A G A A A C A G C A C G G G G A G G G G G G A A A G G A A G G G G B A G G G$ AGCCCCAGAAAAGGAGGGGGAACCCAAGGGGAGAAGCCAAGA G G G G GCGGGGGAAAACGACCAACCGGGGAAGCAAGEACAGAG A GAGAGGGAGAAGGAGGAAAGGGGCAAGGGAAACAAGACAAG G GAGAGCAAACAGGAAGAGGAAAAGGTTCCGGGGCCCCAGAA
 A A G G G G G G A G G GAGGAAAGAAAAACAAGGGAAAGAAAAAAC G AC G GAAAGGGGGGGAGAAGGAGGGGGGAGGAAAAAAGAAGAA A A GAGGGGAAAAAGGAAGGGCCACAAGGGGCCCAAAAAGACC A A G G G G G A A A A A G G G G G G C A A A A A A A G G A A G G GA G G G G G G G A $G A C C G A G G A G A A G G A G C C G A A A G G G A G G A A G G C A A C G A G A A A$ A A C C G G A A G G G G G G A G A G G A A A G G G A GAGGACAAA G G G A G C A GAGGGGAAAAGGAGGGGGGGAACCGGAACAGAAAGGTTAAGA GAAGAGGGACACGGCAAAGAGGAAAAGAAGGAGGAAAGAAGA G G A A A A A A A A A A A A A A A A A A GACCAAAAGGCCGAAAGAAAG G C C C A A C G G G G G G G G C G A G G A A A A C G GAGGGAAACAAAAACAA G G A A A A A G G A G G G A C C G G G G G G G A G G G G A G A A G G G G G A A C G G $G G A C G G G G G A A G A A A A G G A A G G G G G G A G G A G G C A G A A A G G A C$

A A GAAGGAGAGAAAGGGACCGGGAAGAAGGAAGGCAAAAGCC $C C G G A A A A G G A A A A A G G A A A A A G A A C G G G G C C A G A A A A A G G A$ G G G A A GA $\operatorname{A} A A G G G G G G A A C C G A G G G G G A G A A A A G A G A A A G C C$ AGGGAAGACCGGGGCCGAAGACGACCAAAAAGAGGGAGCAGA G GAGGAAAGAGGGAAAAAACGGGGAAGGAAGGAAGAAAAAAA G G G G A A C C A A G G G G G G A A G G G G G G G G A A G G G G G G A A A A A A G G A A A A A A G G G G A A A A A A G GAA $A \operatorname{AGAAAAGGGGAAAAAAGGAGAA}$ G G GAGGAGGGAGAGAGGGGGAAGAGATAAGACGGAAAAAAGA A G A A G A G G G G G G A A A G G GC C G G G G A A G A A C G G A G A GAA G G C C AAAAGGAAGGAAGGAAAAGGGGAAGGAAGAGAGAA GAGAGGG G GAA $A \operatorname{GAA} C C G G A G C C G A G G G A A A A G G G G G A A G G A A G G G G G G$ A A CAAA A GAGAACCGAGAACAGAAGGAAGGAAAAAGGGCCAA A A A G A A G A GAGGAGAAACAAGGGGGGGGGGGGAAGGCAAAAG C C A A A G G G G G G GAA $A \operatorname{AAAAGGGAAAGGAGGGAAAAAAGGGGCC}$ G GACGAAGAGAAAAAAGGGAAACCGAGGGAGGGGCCAACAGG AAAAAGAGTTGGAGCCAACACCGGAAAAAAAGAGGAGGAGAG A G GA $\operatorname{G} A A C A G A G G A A G G G G A C C G A A G A A G G A A G A A G G A A A G B$ A A A A G G G G G GAGGAAAATAGAAGAAAGAAAAAAGGGGGAGAA G G G G G GCCGGGGGGAGGGGGAAGGGGAACAAAAGAAAAGGTT
 G GAAGACAGGAAGGGCAAAGGAAAGGAGGGTTGAAACAAAGA A A G G G G G G G G G G G A G G G G G G G A G A A A A A C C G G G GC C G G G G A A AACCAGAAGAGAAAGGAAAACGAAACGGCCAGCACAGGAGAG GA $\operatorname{G} A A A A A A A A G G G G G A G G A G A G G A A A A A A G G G A G G G G G A G G G$ AA $A G G G A A G G A A A A A T C A A G A G G G A A C C C C G G G G G G A A A A A A$ G G G G G G G G G G G G G G A A A A G G GAC CAAG GAA A A A G G GAA G GAC AAAGGAACGGCAGGGGGGAGAGGGAGAGAAGAAGAGGGAGAA G GAA A GAA A A C C C C G G G G G A G G G G G G A A A A G GAACCAAAAAA G GAAGGCCGGAAGGCCAGAGACGAGAGAGAGGGGCCAAAAAA $G G A A G G G G A A G G A G G G G G A A G G A G G G G G G G A A A A A A C A A A A A$ A A G G G G G G A A G G G G A A A A G G G G A A A A G G G GCCCCCCAA G G A A AAGGCCGGGGGGGGAAGGAAAAAAAACCGGAAGGGGGGGGAA G G G G G G G G G G G G A A G G G G A A G G G G T T G G A A A A A A G G G G G G C C A A G G G G A A A A A A A A A A A A C C A A A A G GAAAA $A$ A G G G GAA G GAA
 $G G A G A A A A G G G A A A A C A G A G A A G G G G A G C A G A G G A G G G A A G A$ AAGGCCAAGAAAAAAAGGACGGAAAAAGGAAACAGAGGCCAA GGAACCAAAAAACCGGGGGGCCAAGGGAAAAAGGGGC
CACGAAGGAAAAGGGGGAGACAGGGGAAGACGAAAGGGAAC G G A A A A C C A GA A G G GAGGGGGAGGAAGGAGGGAAGGCAAAA G AACCAAGGAAGGAGGGAGAGAGGGAGAGGAGGAAGGAAAGAA A A GAACGAGAAGAGGGGGAAAAGGAAGGAAGGCCAAGAAAGG G G G G G GCCAAGGAAGGCCAACCAAAAGGGGGGAAAACCGGGG A A G G A A A A A A G GAAAAAAGGCCGGAAGGAACCAA GAAAGGGG G G A A A A G GCCAA $\mathcal{A} G A A G G G G A A A A A A C C G G G G G G A A A A G G G G$ G G G G A A G G A A G G G G A A A A A A A A G GAAAAAAAAAAA AAGGAGGGG G G A A G A G G A A G G G G A A G G A A A G GAGGGAAGGAA G GAAAACA A GACCGACCAAGGAAGGCCAAAGAGAGAGGGGGGGAAGGGGGG AAGGAGGGCCGAGAGAGGAAAACCGAAGAGGGAGGGCCAGAG A GAGGAGGGGAGAAAAAAGGGGACGAGGAACAGGGGAAAGAA C C G G A G G G C C A G G A G G A A G G G G A A G G G G G G G A A A A G A A A A A A A G GAAAGAACGGAGAAGGAAGAGGAGAAAAAACCCCGAAAAAA G G A G A G A G A A G G G G G A G A G G A A A A A G G G G G G G A A A A A A A C A C
 A GAGCCGGAAAAGGGGGGAACAGAAAGGGGAGGGAGGAAAGG CACCGGCAGGGAACAGGGAGAGAGGGGAAGAGGGGGGGAAAA A A A A G A A $\operatorname{A} G \mathrm{G}$ GAAGGCCGGGGAAAAGAGGAGAAAAAGGGGGGG A A G G G G A A G G G G G G G G G A G A A A G GA A A A A GAAAAA A A A G G G A CATTAAGGGAAAACCCGGAAGAAACCAACAGGGGAAGGAAAA

GAA A A A G G GAGGGGGACAAAAAGGGGAATTGGGGGGAGGCGA G GAAAACCAAAAGACCGGACGGAAGGAACCAAGGAAGGGGCA A A G A A A A A G GAAACAGGAGAGGGGCCAAACGGAAGGGAAAAG ACGGAAGGAAAGAACCAAAAAAAGAAAAGGGGGGAAAAGGTT G GAACCAAAGAAAAAAAAAAACGAGGGAGGAAAAACGAGGGA G G G A G G G G G G A A A G G G A A A A A C G A GAGAGGGGGGGGGGAAAA A A G A A A A A GAAAGAGGCCAAGAGGGAGAAACCGGAAGAAAAG ACGGGGGGAAAAATGGAGACAAGGGGCAAAAACCGGAAAGAA A A C A G A A A A A A A A G C A G A A A G A G A A G A G G G A G A A A G G G A T T A AAAAAGGGACGGAAGGGGGGAAATAACCGGAAAGAGAGAGCA AAAAGGAAGGAACCGAAGCCAAAGACGAAGAAGAGGCCAAGA A G A A A G G A A C A A A G G G A A G GAA $A$ A A A G A A G G A G A A G G A A G G G G A A A A G A C C G G G A A A A G G GCCAGAGAAGGAGAACAGAGA GAAA

 A A ACAGGAAGAATAAAGGGAAACCAAGGAGGAGGGAGAAAAA CAAGAAGGAAAGGGAAGGAAACAGAAAAGCAAGGAGGCAAAA G G G G A A A A G GCAAGGGAAAGGAGGAGAAAGGGGCGAGAAA GA
 G G G G A A G G G G A A A A G G G G A A A A G G G G G GAAC A A A C C G G G G A A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG $C \subset C \subset A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G G A A G G$ A A G G A A A A G G A A A A G G G G C C C C A A A A G G G G G G G GAAC CAAC C

 AACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG G GAAGGAAGGAAAAGGCCAAAACCAAAACCTTGGGGAAAAAA C C G G A A A A G G G G G G A A G G A A C C A A G G G G G GCCAAAAC CAA G G $C \subset G G G G G G A A A A G G A A C C A A G G A A G G G G A A G G G G A A G G C C G G$ A A G G G G G G A A G G G G G G G G G G C C G G G G G G C C A A A A G G G G G G G G A A A A A A A A A A A ATTAA G G G GAAGGCCAATTAAAAAAAACAAA A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAAGGAACCGG G G G GAATTGGAAAAGGCCCCCCAAAAAAAATTAAAAGEAATT A A A A A ACCAAAAAAAAGGGGAAGGGGAAAAGGAAAACCGGGG A A A A G G G G G G A A G G A A C C G G G G A A G G G GAA A GAAAAAC CAGAA A A G G G GAA $A \operatorname{GGG} \operatorname{G} A A A A G G A A C C A A A A A A A A C C A A G G G G A A A A$ G GAAAAGGGGCCAATTAAAAGGGGAAAAAAAACCAAAAAAAA GGAACCAAAAAACCCCCCCCGGCCGGAAGGAATTAAAAGGGG A A A A G G G G A A A A G G A A A A G G C C C C G G G G G G A A G G A A A A A A G G G G G G C C G G A A G G A A A A A A G G G G G G G G C C C C A A G G G G C C G G G G G GAACCCCGGCCAAGGGGGGGGAAGGGGGGGGGGGBAAGGGG A A A A A A A A C C A A C C G G G G A A G G A A G G T T A A A A A A A A G G G G A A AAGGGGCCAAGGGGGGGGAAAAAAAAAAAAGGAAAAGGGGAA
 C C A A A A G G A A G A A G G G A A G GAAAAGGCCAAGGAAGAAA GGGG A A A A A A A G GAA $A$ A A G GACCAAAGAGGAGGAAGGGAAGGAGAAA A A G A G A G G G G A A C A C C G G G G G G C C A G A G G G A G A A G A A A A G G G A A G G G GAA $A \operatorname{GA} A \operatorname{A} G \mathrm{G} G \mathrm{C} A A C A A A C A G G G A A A G A A A G G A A G C C$ AA G GAA A G GACCAAAATTAAGGGGGAAAGAGAAGCCGGGGAA A A G A G A A A G G A A C C G G G G C C G G G G G G A A A G A A A A G G A A C C G G G GAAAAAAGGAAAAAAAAAAAAGGAAGGGGAAAAAAGAAACC A A A A CCGGGGAAAGGGCCAAAAGGGGAAAAAACCGGAAGGAA C C A A G G A A C C G GAAAA $A \operatorname{AGGGGGAAAAAACCAAGGGGGGAAAA}$ G G G GAA AGGGAAAAAACCAAGGGGAACCAACCGGGGGGAAGA G G G G A A C C G GCC $C$ G G G G G G G G G G G G G A A A A C C C C A A G G A A G G A A G G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G G G GCCAAGGGGAAAACCAAAAGGAAAACCAAAACCGGGGAGAA $A A C C A A G G G G A A A A A A C C A A C C G G G G G G A A G G G G G G G G A A B G$ $G G A G A G A G C C G G A A C A G G A A G G A G C C G G C C G G G G G G G G A G A A$

G GAAAAAAGGAAAAAAGGGGAAAAAGAAGGGGGGAAAAAACA
 A G GAA A A A GAGGGGCGCAGGCCAGAAAGAAAGAGAGACACAG GAAAGGGGAACCGGAAAGCCGAGGGAACAAAGGAAGGGAAGA G G G GA GAGAAGAGGGAAAACGAAGGACCAGGAGGCCCCAGAAA $A C G A A A A A A A A G A C A G C C G A G G G A A G G G A C G A A A G A G G A A G G$ AC GA A GAGAGAAAAAAAAGGGGGGAAGGCCAGCAAAAAGGAA AAGGCAGGAAAAAGGAGGAGACGAAGGGACAAGGAAAAGGAA AACCACATACCCCCAAAAAAAAAGCAGAGGAAGGGGACAAGG G GCAGGGAAAGGAGGAGCGAAGAGAGAAGGAAAAAGAAAGCA AAGGCAGGAACCAACAGAGAAGAAAAGAGGGGGATTGAAGAG $G G A A G A A A G G A G G A A G G G A A G G A A A A A A G G A A A A A A A A G G A A$ C C G G G GAAAA $A \operatorname{A}$ GAAAAAGGGAGAAGAGAAAAAAAAAAAAGGAG G GCCGGGGGGAAGGGGACAGAGAAAGCCAGAACCAACCAAAG G G G GCAAAGGGGGAAAAAGGAAGGCCGGGGGGAAAAAAAAGG GAGGAGCAAGGGAGAAAAGGGGGACAGAAGGGAAGAGAAC GA GAA A A C G G G G G G G G G G G G A G A G A A A A G G T T G G A A A A A G A A G A G G G G A A G G G G G A A C G G A G G G G A A A G G G G G A A GC C A A A A A A G G G GAAAGGGAAAAGACAAAGGGGGGGAAGTTAAGGAAAAAAAA A A A A C CAAA A A A A A A A G G G A A A A G GAA G G G GA G GAAAAA G G A $A C G A G G G G A G C A G G G A C A A G G A G G C A A A C G A A G G G G G G G B A A$ GGAACCGGCCAAAGAAAAAAAAGAGGAGGGCCCCAAAGAGAA A GAGGGCGAGGGGGAGGGGGAGGGCAGGCCAAGGAACCAAGA G G A A G G A A A G A G G C G G A A A A A A A G GAGGAAGGCCGGGGAAG G ATGAAACCACGGGGGGGGAAGGACACGAGACACCCAAAATAG GAAAAA $A \operatorname{A} G \mathrm{G} A A A A G G G A G A A G G A A C C G A A G A G A G A G G G G G G G$ GAGGTTCACGGGGGGGAAAAGGGGCCGGAGAAAAGGGGGAGG $G G C C A A A A G A G G C G G G A G G A A G A G G G A G G G A A A A A A A A G A A A$ CAAGGGAGAGGAGGGGGGGGAGGAGGAGTTCCGGAGAAGAAA AGAAGAAGCAAGAGGGGGAAAAACAGCACCGGCAAAAAGGGA
 AACCGGGGGGAAGGGGGGAAAAGGGGGGGGCCAAAAAAGGGG AACCGGAAGGGGCCAAAAAAAAAAAAAAAAAAGGGGGGAGAA AAAACCAACCAAAAGGAAGGCCGGGAGAGGGGGGAAGAAAAA A A A A A C A A A A A A G GCCGGAAAACCGGAAAAACAAAAAGGGGG A ACACACAGAAAAAAAAAAAGGAAGAAAGGAAGGAAAA G GAC GAGGGGACCCAAAAAAGGAGGGAAGGGGAAAGGGGAAAAGGG G GCCGGGGAAAAGGGGGGAGGAGGGAGGAGCCAAGAG
GAGAAACGAGGGGAAGGGGCCGAGGAAGGAAAAAAAGAGGG
 G GAGAAGAGGGGAGAATTCCGAAGAAAGGAATGAAAGGAACC $A \subset A G A A A A G G G G A A G G G G G G A A G G A G G A A G C A A A G A G A A G G G$ AAAAGGAGCCAAAACCAAAAGGGGGAAACCAGAAAGACAACC G GAACCGGCAGAAACCCAAGAAAAGAGAAAGAACGAGCAGCC CACCCCCCGGAAGGCCGGGGAAAGAGAAGAACCCGACAAAAA A G A C A A A A A A A A A A GAA $\operatorname{A} A A C C G A C G G G T T G G G G G G C A A A G G$ A G G G A A A A G G A C G G A A A A A A G G G A G G CA $\operatorname{A}$ G A G G G G G C C A G C C G GAA $A \operatorname{G} G A A G G A A G G G A G G A T T G G A A A A G G A A A A G G G G C C G G$ A GAAAGGCAGAGGGGGGGGGAAACACAAGGAAGAAAGGCCGG C C G G G GCCAAAAAAGGAAGGAAGGGAGAACAAGGAAAAAGGG $A C A G A G G G G G G G G G G G A G A A G G G A G G A A C C G G G G C A A A A G A G$ CCGGAAAAGGCACAGGAAGAGAGGGCGGGGAAGBAAGGAAGA A A G G G G G G A G A C G G G A A G C C A C G G C C C C G GAA G GAC G G G G A A G GAAAACCAAGAAAGGGGAAGGACAGAAGGGGGGGGAAAAGA G G GACCGGAGACGGAAAGGGAAGGACGGGGAAAACCAAGGCC C C A A A A A A G GAAAAGGCCAGGGAGGAGACCGGAAAGGGAAGA $A G C C G G A A G G A A G G A A A A A A C C G G G G A A G G A A A A A A G G A A G G$ A A G G G G A A A A G G G G A A A A G GAA A G G G A A A A A A A A A G G A A A A A A AAAAGGAAGGAAGGAAAAGGAAAAAAGGAAGGGGAAAAGGGG
 A A A A G G G G G G G GAA A G A A A A A A G G G G G GAACCGGAAAAC C G A GAAACCTAGAAAGGCCAGAGAAGGAACGGGAAGAGEAGAGAC G G G A G G G G GAAA A A G G G G C A G G G G A A G G G G G G G G G A A G A A G G AAGGGGGAGAAGGAAGGAAACCGACCAAAACCGGAGAAGGAA

 AAGGCCAAGGGAAACGGGGGCCGGACAAAAGGGGGGAGAACC AA A GAAGGCCAAAAAAGGGGAAAGAAGGCCAAAGGGAGAGAT A G G G G GAA A G GAA TAAACAGGGAAACGAAAGGGAAGGAGGAG A A G G G G G G G A G G G G G GAGCCCCGGGGCCAAAACAGGAA G GAA C C G GAAAACCCCGGAAGAAAGGCATTGAAACCAAAAAAGGAA A A A A A A A G A G A G G G A A G G G G C C G G A A G G G G A A A A G A G G A A A $G$ $C \subset C A A G A A C C G G A A G G A A A G A G G G A G A A A A C C A G G G G G A G A G$ G GAA A G G G A GAAGGAAGAGAGAGGCAACGAAAGGGGAAAGCA GAGGAA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A A A A A G G G G G G G G A A G G A A A A G G G G$ $G G T T G G A G G G G G G G G A G G A A G G A A A G A G G A G G A A A A G A A A A A$ AAGGAAAAGGCCGGGGAAAAGAGGACACGGGAAAAAAAAAGG A A A A A A A A GAGGAAGGAAGAGAAAAGAGGGAGAAAGAAACAA G G A A C A G A A G G G G G G G A A G G G G A A G A G G G A A A G G C A A G A A A A AATTGGAGACACCAGGGGAAGGGGCAGGACGGGGAAACAAAA GAAGGGGGACGGGAGCGGCCAGGAAGAAGAGAAAAACACAAG G GCAACGACCGAGGAAAGAAAGACAAGAGGGGGGAAAAAAGG C G A A G G G G GAAA $A \operatorname{AGGGGAAACAGGGGACAGGGAAAAAAGGAG}$ A A G GAGAGCAAAAAAGAGGGGGGGAAAGAGGGGAAACCCCAA G GAGCAGAACAGCCCCGGAAAAGAAAAAAAAAAAGGAAGGGG G GAA $A \operatorname{G} G A A G C G A A A A C C G G A A G G A A A A G G A A G G G G G A A A G A$ A A C C A A G G G G A A G G G G G G G G G G G G G G A A G G C C G G A A G G G G A A G G A A G G A A A A A A A A A A A A G GCCGGGGAAGGAATTGGGAAAAA G G G G GAGGACAAGAAAAAGGCCGGCCAAAGCCAACCCAAAAA A A G A G G A A G G G G G A G G G G A A A G A G G G A A T T G G A C A A A A A A G G C C GA $\operatorname{l}$ A A A G G G GATGGACAGGAAAGAAAAAGGAATTACAA GA A A G GAAGGGAGGAGGCAAGGCCCCAAACGGGGGGAAAAGGAA AAAAAGAAAGGGGAAAAACCGGCCAGAAGAAAAAGGCAAAAA T T A A A A A G A A A A C C GACCGAGGCCGAGGGGGGAGGACCAAGAG AAAAGGGAAAGGAAAGGGAGCGGGGAGGAGACGGCAAAAGAA A A G G G G G G GAAAAAAAAAAAAGAGGGAGAGGGGACAGGGGGAA GACCAGAAGGAGAGGGGGGGACAAAGTAAAGGACAAGAAAGA A A A A A A A C G G A A A A A A C C G G G G G G G G G G A G G G G G G G C C C C G A A G G G G GCCCCAAGGAGCAAAAAAAGAAGGAGGGAGGGGAAAG GAAAGAGGGAAAAGGAGAAGATAGGGGAAAGGAAAAGGAGAA GAA $A \operatorname{AA} A G G G A A A G C C G G G G C A A G A A G G A A G A G A A A G G E G A A$ AGGAGAACGGCCAAAACCCCACGGCCCCAGCCAAGGAAGGGA AACCGGAAAGGACAGGAGAGAAAGAGAGAAAGAGAACCGGGA G GAGGACAGGACAAGAAAGGAAAAGGAAAAGGGGGGGAAAAAA G G G G A A G G G G G G A A C C A A G G G G G G A A G G G G A A G A G G A A A G G G AAGGAAAACGAGAGGGAGAGGAAGAGAAAGAAAAGAAAAAAG G G G A A GACCGGGGGAGGGGGCCAGAGGGAAAAAACCTXAAGG G GAACCGAGGGAGAAGGGGGAAAGGAGAAGCAGGGGAGAAAG G G G G G G G G A A A A G G A G A T A A G G A C A A G GAAA A A G G G G G C C A A $A A G G G A A A G G G G A G G A G G G G A A G G G G A G A A C C A G A G G G G G A A$ $G G A A G G G A G A A A A G A A G G G G A G G G G G G G G A A G A A G A A G C C G G$ GA $A \operatorname{G} G A G G G A G A G G A A G A A G G G A G G G A A G G C C G G G G G G G G G G$

 A A A A A A G G A A A A A A GAGGGAGGCCAGAAAAAGGGCAGAAAAA G G G GAGGAGGGGCAGAGAAAGGAGAAGGGGGACACCAAAGAA A G G A A G G G A G G G A G G G CAA A A A A A A GAA A A G GA G G A G C A G G G A $A G A A G G A A G G A A G G A A G A A G A A G G T A A G A C G G C C A A G G A G A A$

A A A G A A G G G G GAGGGGAAAACCGGGAGCGGCAAGAAAGAAGG
 A A A A A A A C G GAGAGGGAAGAACACAGGGAGAAGBAACCAGAC A A A A G GAA $A$ A A $A \operatorname{G} G A G G G G G G A A G G G C A A G G A G A G A G G G A A A$ AAAGGAGAAAAGGAAGAGGGGGGAGGGACCCCGCCCCCCAGA AC G A A A G G A A A A A A A A C C G GAGCCAAGGAAAGGGGGGGA GAA T T G G G G G A G G A A A G G G A G G G A G A A A A A GAAA A A A C C G G G G G A ACAAGGGGGGCCAAGGGAACAGGAAAAGAAAAGAAAGGACAG A G T T A A C C G A G A G G A A G G A A G G G G G G C C A G G A G G A A G G C G C C AAAAGAATCAGGAGGGGAAAGGAAAAAGGAAGGAGCGAGAGA GAAGAAGGGGAAGAAGGGCCGAGACCGAGGCCAAAGCGGGGA A G G G A A G G G G A A G G G G A A A A A G G A G G A A A A A C G G G G G A G G G A
 A A C C G G G GCC G G G G A A A A G A G G A A G G G GA GA A A A G G C C G G G A G G G G A A A A A G G A G G GACACCAGGGGGGGGGAGAGACAGCCGG A GAGAGAAAAAAAGGAGGGGAAACAGAAGGCAGAAGCAAAGA AACCAAAGAGAAGGAGAAAACCGGAAAAAAGGGGCCGACAAAA A G GAGACCGAGGGACCGGAGACGGGGGGCCAACGGGACAAGG $G G A A G G G G A G A A G A G G G G G G A A A A A C C C G G C A A A A A G G G G G G$ G G G G A A G A G G G GAA A G G G GAAAAGGCCAGGAAAAGGGAGAAAA GAGGAAGGGGGGAAAAAAAAGGCAGGGGCCGGGGAACCAAAA A A G GAAGGAAGGAAGGAAGGCCAAAAGGGGCCAACCAAAAAA GAACGGCCCCGGAAGAGGAGGGCAAAGAAGGAGAGGAAAAAA G G A A C C A C G G A G A A A A A A A GAA $A \operatorname{GGGGAAAAGGACAAGGGGGA}$

 G G G GA GAA A GAAGAACAAACGGCCGGACGAGAAAAGCCACAAA CA $\operatorname{A} A A A A \operatorname{A} A G G A A A A A A G G A A A A A G G C C A A G G A A C A C C A G A G$ G G G G A A G G G GCC G G G GCC G G C C G A G G A G G G G G G G G A A G A G G G CAAGAAGACCGGAGAGGAAAGGGACCAGAAAAGGGAAAGGGG A G A A A A A A A A G GA G A A A A A TA GAAAAA GAAAAAAAAAA G G G G AAAAGAGGAGAGGAAAAGAAGGGAAAGGGGAGAGAAAAAGGA G GAA $A \operatorname{GAA} A \operatorname{A} C A G G A A A A G G A A A A A A G G A G A A A G A A A A G G A A$ GAACAACCGGGAGAGGGGGGGGGGAAAGCAGACCAACCAACC G GCCGGGAAGGACCAGAAGGAAAAAAGGAACCAAACCCAGAG A A A A C C G G G G G A A G A A A A $\mathcal{A} G G G G G G G A G A A A A A A G G A A A G A A$ G G GCAAAAAAGGAACGGGCACCAAAAGGGGAAGGGGAACCGG GAACAGACAAAGGGGGGGAGGGGGCCAAACACGGGGG
G G A G G G A A G C C A A G G G G G A G G G G A G A A G G A A G G A A G G G G G G A A G G G G G G G A A C G G G A A G G G G G G G G G G G C C G G G G C C G G A A A A AA $A \operatorname{GAA} A G G G G G A A A A G G G G A A A A C C G G G G A A G G A A G B A A G G$ A A A A G G G G A A A A $\mathcal{A} G G G C C G G G G G G G G G G A A G G A A A A G G G G G G$ A A A A A A A A A A A A GGGGGGCCCCAAAAGGGGGGAACCAAAAAA A A G G G G G G A A C C G G C C G G A G T A A GAGAGACAAAAAACCAA GA G G G G A G A A A A G G A A A A G G A G A A A A G G G G A A A G G A G G G G A A G G G G G G A A G G A A A A A A A A A A A GA G GAA $A \operatorname{GGGAAAAGGGAAACCGG}$ A A G G C C G G G G A A A G A A G A A G G G G G G G G G G G A A A A G GAAAC C C AAGGGAAGGACCGAGAGGCCAAACAGAAAAAGCAAGCCAAGB A GAGGGGAGGGGGGGGGAAGAAGGACAGGGAAAAGGCCAGAA G GAGGAGGGAGAAAAGAACCAGACGGAAAAAAAAGGGAAACC A G A A A GAGTTGGCCGGAAAAAGGAAAGGAACCAAAAAAGGAG G G G G G A A A G G G GAA A G C C G G C A A C A GAAAA A A G GACA A C C G A A A G A A A G A G G A G A A G G A G A A A A A G A A A G A A G GAC CA G G G A A G GAAGGAGGAAAAAAAAAACCGAGGACGAGAGAAAGGAGAAAA G GCCAAGGGGGAAAGGAAAAGAGAAGGAAAAGGGAGGACABA G GCCAGGGGAAGACGGAGAAAAAAAAGGAAAAGGCCCAAGGA
 C A G A G A G G A G G A G G G A A GA GAA A A A A GAAAAAGCA G GAA A A A AAGGGACAGGCAGGAAAGACAAGGAGGGGGAAGGAAGGCGGG
$C \subset C \subset A C C C G G G A A A G A A A A G A A A A A A G G G G G G A T A G C C G A C C$ $A G C C A A A A A G G G G G A A A G A G G G A G A A G G G A A A G G G A A G A G B A$ $G G A G A G A A A A A A A G G G G G A G G G A A A A A A G G G G G G G G G G T T A A$ $C \subset G G A A A A A G A A A A A A A A A G A G G G A A G G A G G G C C G G C C A A G A$ $C \subset A G A G A G G G A G A G A G G A G A G A G G C A A A C A T A G G A A A A A G G G$ GAGGGAGGGGAACCGGAAGGACAGACAAAGAAGGAAAGAAAA A A A C A A A G A G A G A A A A A A A A GGCCAAAAGGAGAG GAACA GAA CCGGAAAAAAAAAACCGGGGAAGCCCGGGGCCCAACCAAGB A A G G G G G G A A G GAA A G G G A A G G A A A A A A A A T T C C G G A A G G A A AAAAAAGGAGAGGGCCCAAAGGACGGAACAAAAAAAGACACC C CAAAAAACCGGAAAAAAGGAAAAAAGGAACCGGGGGAAAAA A A G G G G G G G G A A A A G G G GAACAAAAAAAGGAGGGGGAAAAAA A A A A A A A A A A G G G GAAAAAA A A A G GCA GAAACCAA GGGGCC G G A A A A A A G G A A G G G GAAAA A G G G GAA A GGGAGGGAGGGAA GAAA G GAA A A A GACCAAAAGGGTTGGACAAGGAAAACCCCAAGAAA $A G C C A G G A C A A A A G A C C C G G A G A A C C A G C C A C G G G G A A G A A A$ A A GAGGGGGGGAGGGGGGAGAGATAAAGAGAAGGCAGAAGAA G G G G A A A G A A G G A G G A G G A A A A G G G G G G G G G G G G G G A A G G C C G G G G A A A A G G A GAGGGGGAAAAAAGGAGGAGGAAAAAGAAAA $C \subset G G C C G G G A A A C A C C A C G G G G G G T A G C G G A G G G A A A A G G G G$ G G G GAGGGGGAAAAAACAAAGGAGGGAAAGAGAAGGAAGAAA AAGGCCGGAAGGGGAAAAGAAGGGGGAAACGGCAGGAAAAAG G G G GCCGGAAAAATAAAGGAGGGAGGGGGGAAGAAGAAGGAA A G A G A C A G A A A G G G A A G G G G A A A G A A G G G G G G A G A G G A G G G A A G GA $\operatorname{G} G A \operatorname{A} A A A A A G G A A G G G G A A C C A A G G G A A A A G G G A A C C B G$ AGCAACAGGGAAGGAAAGAAACAAGAAGAAGGGAACGAGAAG AAGGAAGGGGAAAGCCAACCGGACAAAGAGGGAGAAGGAGGG
 A GAGGGAAAACCAAAGGAGGAGAAAAGGCAAGGAACGAAGAG G G G G A A G G C A G G G GCC G GCCC C G G G G G GC C GA G GA G A G G G A A A A G G A A C C A G A A C C A G A G T A G A A GCC G G G G G A G G G A A G C C A A G G G GACAGGGAACCCAGAGGGAGGAAGAAGAAAAGGGGGAAA AAGACAAAAAGGAAGGAAAGCACAAAAAAGCCGAAAAGAAAG GGCCGACCAAGGGGCAAAAAGAAAAAAAAAAACCGGAAGBAA AA $A G G G A A A G G G C C A A G G G A G G A G G A C C C A G G G A C C G B A A A A$
 AAAGAGAAGAAAAAAACCGGGGAATAGGGGAGAAAATACACC A A G G G G G G G GAAGGAAGGGGAAGGCCAAGGGGAAGGAAAAAA A A A A A ACCAAA A A A A A A GAAAAGGGGGGGGCAAAAGAAACAA G GAGGGAAAGGGAAGGAAACGGAGGGGGACGAGACCAGAAGG G GAAAAGAGGAGGGCCAGGGAAGGCCAACCAAGGGGGGAGGG A GAC GAAAAAGAAAAAGAAGAAGGGGGGACATCCGBAAAAAA A G G G G GAGGAAAAAGGAAGAAGAGGAACAGGGAAAGCGGGGA G G G A C A A A A A G G G G G G G G G G G G A A A A G A A A A GAA $A$ G G G G A A $G$ G G G G GAGGAACCCCAAAAAACCAAAAAAGGAGAGGAGAAAAA G G A G A G C A G G G G A A G G A G G G G G A C A A C C A G G A G G A C G G G A G G A G G GCCCCGGAGGGAAACAGGGGAGGGGGGAAAAGGAGAAGG G GCCAGGAGGAACCGGGGGGCCAAAGGGCAAGGGGAGACAAA A G GA $\operatorname{A} G A G G A G G A A G G G G G G C C G G G G G G A G G G G G A A G G G A A A$ G G A A A A A A A A GAGGAGGGAAGGAGGAAAAAGGAAA GAA GAAAA GAGAAAGGAGACGAAAAAGGGGGGGACAAAAAGGGGAAAGAG AACCAGAAGGGGGGAGAGACGGAAGAGAAGGGGGAAGGAAAA A A G G A A A A G G G G A A A A $\mathcal{A} G G G G G C C G G A A A A G G G G A A G A A A A G$ G GAGAGCAAGAGGAAAAAAGGAGGAAGGGGAAAAAA GGGGGG GAGAGGGAGGGGAGCCGAGGGAGGAAGGGGAAGAAAAGAGAA $A G A G G A A A G A A A G A G G A C G G A A A G A C G A G G G G A A A A G G A A G A$ GACAGGGGAAGGCCGGCAAACAGAGGGAGAAGAGGAAAAAGAG AACCGGAGAAGAAGAGAGGGAAGGGAAAGGGGGAGGAAAGAA CAGAAAAAAAGAGAGGAACAAGGGCCGGAAGGAAAAAAAGAG

G GAA A GAA $A \operatorname{A} A A A A G A A G A A G G G G A A G G A A A A G A G A G G A A A G$ GAAAGGAAGGAGAAGGGACAGGCAGAAAAGACAACAAGAAAA AAAGGGCCAAGAAGGAAAGAACAGAAGGCCGGAGAAAAAACC AA $\operatorname{A} G A A A A G G A A G G G A A G A A G G A A G G A A G A A A G G G A A A G G G G$ G G G G G G G G G GAAAA A GAAAAGGCCAAAAGAGAGGGAAGAAGA AAAGGGAAACAAAGGAGGGGGGGGCCGAAGAAGAAAGAGACC A A G G G GAGACAGAACCGGGGACGACCGAAGAGGGAAAGGGGG GAAGAAGAGGGAGGCAAAGAGGCAAGGGGGGGAAAGAGAAAA $G G A A A A G A G G T T G G G G A A G G A A A A A G A A G A G A G G A A A C A A A G$ $C \subset A A G G A A G G G A C C G G A G C C A A G A G A G G A A G G G G A G G G A A A A$ A GAGGAAGCCAACCAGAGACGGACGAGGCCGGAAAAGAAAGG G G G G A G T TAGGGCCAAGGAACCGGCCACAGAAACAAGGGGCA G G G G A A GAGGAAGGAGACGAAGAGACGAGGAAGGGAAAGGGG A A A A A A C C A A GGGGGAGGAACCAAAAAACCCAGAG GAAAAAA G G G A G A G G C C G G A A G G G G G G G G G G G G G G G G G G A A A A A A G G G G A A G G G G G G A A G G G G A A G G G G G G G G A A G G C C A A G G C C C C G G G A A A A A A A A A A G G A A A A A A A A A A G GAAAA A G G G G G G G G G G G A A G G G G G G A A G G C C G G G G A A A A G G G G G G G G G G G G C C G G A A G G C C AAAACCGGGGGGGGCCAAGGCCCCGGGGGGAAGGGGGGAGAA
 G G G G G G G G G G G G G G G G G G G G G G A G GAC C A A A A A A C C A G G G C A C C G G G A G G A G G G G G A C G A G G C A GAGGAAAAAAAAA AAGGGCC A A A A A A C A G G G G G G G G A A A GAAAACAAGGGAGAGAA GA GA GA

 A A G G G G G G A G G A A G A G G A A GAGAAAGGAGGAA GAA GAA G GAA A
 A A G A T T G G A A A A G G G G A A A A A A A A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{G}$ A G GAA A G G A G A A A G G G A G G A G G G G A A GAGGCACC GACA GAC C ACGAGAGGGAACAGAAAAAGCCGGAGAAGAAGAAGGGGAAAA GAAAAAGACAGGACGAGAAAAGAAAAGAAGAACCAAGCAAAC GAGGAAGAGGGGAAAAGAAAGGCAGGGGAGAGGGCAAAGGCC A A A A A A A A G G A A G G G G A A A A G GAACC G GAGGGGGAAAAAA GA GAGGGAGGAAGAGGGAGGAAAAAAGAGGGGCCGGGGCCAGGB
 A A A G A A A A A A C A CAGAACACGAGAGAAGGAAAGBAAG GAA A A
 A GAAAAGGGGGGGGGGAAGGGGAAGGGGGGAAAAGGA
C G GA $\operatorname{G}$ GAAGAACACAAAGGAGGGGAGAGAAGGAAACCGAAA A A A C A C GAGGCAAC G G G A A CAA G G G GAA A A A A A G G G G G G G G G G G GAG $\operatorname{G} G A G G G G G G A G G A A A A A G G G A G A A G G G G G A A G G G A A T T$ CAAGAGAAGACAAAGGGAAGGACAGAAGGACCGGAAAAAAGB GACAAAAGAGGGGAAAGAAAAAAAAGCCAAAGAAAAAGACCA A A A A G G G A A G A G A G GAAAGAGAGGAGGGAACCAAAAGGACAA A A A A G G A A A A G A G G GAGAGGGAAGAAAGAAGGGAGAAAAA GA ATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G GAA A G G G G GAAAAAGGAAGGCCGGGGGGAAGAAAGGGGGG G G G G G G GAGGCCAAAAGGAAGGGGAAGGCCGGGGAAAAAAAA


 AA $A \operatorname{GGGGGGAGGAAAAAAAAGAAAAAAGAGAAAACCGGAAGAA}$ A A G GCCCCAGAGAAGGGGCCAGGAAGAGAAGGGGGAAAAAGG ACAGAAACGGAGGAAAAAAAGGGGGGGGGGACGGGGAGAGCC C C G GAGGGAAAAAACCGGCGAAAAAAAAGGGGAAAAAGACAA $A C G G A A A G G G G A A A A G G G G G G G A C G G C C G G G G G G A A G G A A A G$ G G G GAA A A A A G G G GAA $A \operatorname{AGACGGCCAAAAGGAAAAGGAAACAA}$
 CAAACCGGAAACCAGGAAGGAAAAAGGGGGCCAAGGGACCGG

GAAAGGACGGCCCCCCAGAAGGGGGGAAGAAAAAAAAAAAGA GAGAAAAGAGACCAAGCCAAGGAAAGGAAGAGGGAAAAGAAA ACAAAAAAGAGGAAAAGGAAGGAAGGGGGGAAGAAAAAAAAA
 CAATAGAGAAAGGGAAGGAGGGCCTAAAGGAGACCCGAAAGA AACA A GAAACACGGGGGGAAGAGAGGGGAAAGAAAAAGGGGG AGACCCCAGAAAGGGGCAGAAACCGGAACCAAGGAAGGAGAA AGGAGGGGAAAGGAGGGGAAAAGGCAAGGGCACAAAAAGAAA AC G A G G A A A C G G G G A G A A G G G G A G A C A G G G A G A G A G A A C C G A A A GAAA A A A A G G G G G G G G G GAACCGGAAACGAAG GAAAAAA G G G G GAA $A \operatorname{GA} A A T G G G G A A A A G A A A G G C C G G A C A G A G G A A G A G$ A A A GAA $A \operatorname{GCCA} \mathrm{C}$ G G GACAAGGTTGGAAGGGGGAGACAGAGGGG GAGAAAGGAGAAGGGAAAGGGGCCGGAACCCAAAAAGGAGAA AA $A \operatorname{GAAAAAAGAGGGGAAAAAAAGGGGGGGGGGGGAAA} G A G A A$ AAAAGGAAAACCGGAGAGAGGAGAGGAAGAGGGGAAAAGGGG AAGGCCGGGGCCGGGGAATAAAAAGGAAAGGGAGAGAAAAAA G G GAAAAGGGGAAAGGGGAACCAAGAGGAGGAAGGGAAAGAG GAGGGGGAAGCCCAGAGGAAAAGGGAAGGGAAGGGAGGGGGA A A A A A A A A G GAGAAAACCGGTTAGAACCGGGGAAGGGAAAAA C C G A A A A A A G A A GAAGGCAAAAGGAAGGGGGGGAAACAAAAG G GAAAAAAAGAGAGGGAAGGAAAAAGAGAGAAGGAAAGACGG AAAACCGGGGAAAAGGGGCCGGAAAAAAGGAACCAACAAACC G G G G G G A A G G A A A A C C A A G G A A A A G G G G A A G G T T A A A A C C T T A A G G A A G G A A A A C C C C G G G G A A G G A A G G T T A A A A A A C C G GA A G G A A A A G GCC G GAAAAAACCCCAACCGGGGAAAAAAGGAGAA AAAAGGGGGGGGAAGGGGAAGGGGAAGGGGAAAAGGAAAAGG C C G GAA A GAAGGAAAAGGGGAAAAGGAAAAGGCCAAAAAAAA
 G G A G A A G G G G G GAA $A \operatorname{G} \operatorname{A} A G G A G A G A G G A A A A A G A A G G A G A G A G$ ACAAGCGGAGAGACATGGAGAACACGCCAAAAGGAAAAAA G G A A A G A GAA $A$ A A A $A \operatorname{G} G A G G C A A C A G G A G G G G A T G G B A A G G G G G$ GGAAAAGGAAAAGGAGGGACACAAGGCAGAGGAGCAAAGGAA A G GAAAAAAAGGAAGGGGGGAAAAGAAAGGCCCCGAACAAAAA GAAC GAAGAAGGAACCGAAGAGGGGGCCGGACCAGAAACABC GACAACGAAGGCGAGCAAGGAGAAAGGAGGAAGAAGAGAGCG A A C C G G G G A A A A A A A A A A G G A A A C G C CAA G GAGAGACAAGAA $C \subset C C G A A A A A A A C C G G C A G G A C A A G C C C C G G A A G A A A G C A$ $C \subset A A A G A G G A A G G A G G C C G G G G G A A A G G A A G A G G A G G A C A A A$ GACGTAAAGGACGGAGGAGGAGGGGGGGAAAAAAAGAGAGAA
 $A C G A A A A G C A A G G G G A G A G A G G G G G G A A G G A A A G G A G G A G A A$ G G A A C A G G A A G G A G A G A GAGGGAACAGGTTGGAGCCGBAGAA AAGAGGGGAAGGAAAAGGAAGGGAAGGGGGCCAAAGGGAACAA A A A G A A G A A A A A G A A A GAGGGAAGGGAGAAAAGAAAA GA GAA GAGAAGAGCCGAGGACGGAAAGGAAAAAGGGGCCGGABAGAC
 A A A A G G G G G G G GAAA $A \operatorname{AACGACCGGAAAAGGGGGGCAAAGGAG}$ ACGGGGAAAAGGGAAAAACCGGGGAAGGGGAAGGACGAGGCC AACCGGGAACAAGGAAGAACCAGCAGAAAAGGAAGACCACAC GAGGGAAAAAGAGGAGGGGAAGGACCGAGAAGACAGAAAGAG A A G G A A A A G G A G G G G A A GAA $A \operatorname{AGGGGGAGGAGGGGAGGAAAAA}$
 A A C C G G G G G G A A A A A C A A G GAA A GAA $A \operatorname{A} G A G G G A G A C A G A G G G$ AAAGGGGAGACCGACCGGAAAAGGGGCAAGGGAAAGTAAAGG A G G G G G GAGGAGAAGGAAGGCAGAGGGAAGGAAAGGAACCAC A A G G A A G G A G G G A A A G A GAGAAGGAGAACACCGGCACCAG G G ACGGCCGGCCGGGGCCAGAAGGAAGAGGCCAAGGGGAGAAGA A A G G G A A C A G G GAGAAAAACGGGAGGACAGAAAAGAAAAAAA GACCGGGGGGGGGGGGCAGGAAGGAGAAGGGAGGGAAAGGGG

AAAAAGGGCCAAGAACAGGGGGGGGGAACCAAGGGGGGAGAA G G G G A A G G G G A A C C G G G G A A G G G G G G G G G G A A C C G G G G G G A A G G A A A A A A A A A A G G G G A A A A G G A A G G G G C C G G G G A A G G G G C C G GAA A G G G G G G GC C G G A A A A G G G G A A G G A A G G G G G G G G G G G G G G G GAAAAAACCAACCGGGGGGGGGGCCAAAAGGTTAAGGGG $G G A A A A G G G G A A A A A A G G G G G G G G G G A A A A G G A A A A A A G G G G$ G G G G A A A A A A A A G G G G G G A A G G A A A A G GAA $A \operatorname{GGG} G A A A A A A G G$ GGAACCGGAAGGCCAAAAGGGGCCGGCCGGGGAAAAAAAAAA A A A A A A G G A A C C A A G G G GAACCGGAAAAAAAAAAAAGAAACC AAAAGGAAAAGGAAAAAACCAAAAGGAAAAAAAAGGCCAAAA G $G \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G G A A A A G G G G A A A A A A G G A A C C G G G G$ AAAACCAAGGGGCCAAGGAAAAGGAAAAAAGGAAGGAAGGCC A ACC G GAAAAAAGGGGAAAATTGGAACGGAGAGGGGGGAACA
 A G G GAAAAGAAGAAAAAACCAGGAGAGGAGGGGGAGAAAAAA A GAAAAGGAACCGCAGAAAGAGAAGAAAGGAAGGCCGAGGAC C C C C C CA A G GAAA GAAAGCCCCGGAAAAAAGAAACGAAAAA G A G G G G A A G A A C C A A C C C C A A G G G GAAAAAAAGGGA GAA G G G G G GAGGAAGAGGGGTTAAACGAGAAGCAGGAAAAAAGGGGCCGG A A A A C C C A A G G G T TAAAACCAAACAGGAGGAGAGGAAACCCC A GTTTTAGAAGAAGAGAAAGCCGGAAGGGGCAAACCGGAAGA C C G G G A GACCGAGGAGAAGGGAGAAACCGGGACCCCAAAAAA GACGGGAAAGAGAGAAGGGGAAAAGAAGGGAACCAAAA GA GAA A A G G C A A A G G C A A A GAA A A GAA A G G G G G G GAAA A C G GAA A A A G A G G G G A G A C C A A G G G GCCAAAAAGAGGAAGAAAAAA GAGAA G G G G G G A A A A A A T T A G A G G GAGAA GAAAGGGAGGAAA GAAA G GA A GAGGGGGAGAGCCAGGGAAAGAGAGAAGAGAAAAAGGAGAA G GAA $A \operatorname{GAA} \mathrm{~A} C A C A A A A G G G A A A G G G G G G G G A G G G A A A A G A G G$ GACCAAAAGGGACCGGAGGGCAAAAGAAAAAAAGAACAAAAG G G G G G G G G G G A GAAAA A $A \operatorname{A} A G G A A A A A G A G G G A G G C G A A A A G A$ A A A A G A A C G G G A G A A G A A G A G G A G G G A A G A A A C C G G G G A A A A G G G G G G G G G GAAGAAAGAAGGAGGAAGAAAACGGGAGAGAAA A GCCGGAAGGAGGGAAAGATGGCCAAGGCCGGAACCGBAACAC A A G G A A A A $\mathcal{A} G G G G G G G G G A A A A G G G G G G A A C C A A C C A A G G A A$
 A G A A A G G G G GAC G A A A A A A GAAAA A G G G G G G A G G A A G G A A G G A G G GAGAGAACAGGGGAAAGAGGGGGAGGAGGAAAACCACAA GACCGGAAGGCCACGGAAAAAACCAAGGGAGAGAGGG
G GGCCCAAAAGAGAGGAGGACCCAACAGACCGGAAAAGGCC G G G G G G C C A A C C G G G G A A G G C C A A A A G G G G C A A G A A GAA A A C CAGGGGAGGGGAGGGGGGAGCCGGAAAAAAAGGGGGAAGAAA
 AGCAGGAGAAAACCAAGAAGAGAAGGCAGGGGAACAGGATAG G GAA A G G G A A G GAACCAAGGCCGGCCAAAAGGAAAAGAAAAA
 A A G G G G G A A A A A A G G G A A A GATGGAGGGGGGGAAAAGACACA $G G A A G A A A G G G G C A A A G G G A G G A G A A G G G G G A A A A A A A A A A G$ G GAAGAAGCAAGGGGGGGAAGGAAAACAAAAACCAAGGEGAA GAAAGCGGAAGGGGAAAAAGAAGGGGCCAAGGGGGGAGAAAA
 G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A A A A G G C A A C G A G G G G A A C C G G C X A G C C G G G G$ AAAAGGGACCAAAGGGGGGGTTAACGAAAGAAGAAAACAAAG A G G G G G A A A A G G G G A A A A G G G G A A A A A A A G GAAAAAACAAA A G GAAGGAAGGGGGGGGCAAAAAGGAACAGGAAGAGCGGGGGG $C \subset C \subset A G A G G G G G A C A G G G A A G G G A G G G G A A G G A A C A G A A C A G$ ACAGGACCAAGGGGCAGAAGGGAAAAGGAAAAAAGGAAATGA A A GAA A CC C GAAGGGCCAGAGGGCCGGCAGGAAAAAAAAAAGG A A G G A A G G A G A A G A A G A G A GA G A A C C G G G G G G G G G G A G A G G A G GAGGAAAAAAAGGAACCGAGGCAAAAAGGGGGGAAAAAAGG

G G GAAAGGGGCCGGAATTGAAAAAAAAAGGGAACAGCAGAAA CAAAAAAGAGGGCAAAGGAAAAAGCCAAAGAAAAGAAAGGGG GAAAACGGAGCCCCAAAAGGGGGCAAGGAAAGCCACGGAGAA AAAAGGCCAAAAAAAAGGCACAGGGAGGAGGGGGAAGAGGCC AA $A \operatorname{GGGC} C \subset A G A C C G G G A A A G G G G G A G G A C G G G G G G C A A A G A$ C C G G G A A A G G G GAA A A G GC C G G GAGACCAAAGGGAGAGAGAA C CAA $A \operatorname{GGG} \mathrm{G} C \mathrm{C} C A A C C G G A A A A G A A G G G G G G A G G G G A A A G G G$ G GAACAGAGGGGAGAAAGCCGAAAAACGGGAAAAGGGGAAGAG A A A A A G G A G A A A A C A A A A G G G G G G GAAA A A A G G G G A G G A GAC G G G G G GCC G GAGGGGAGGGGAAATAGGGGGGGGGAGAACCAG A G GAA A GAGGAGGACCGGGGGGAGAGAAAACCAAGGAAAAAA G G A A G G G G G G G G C A G G G G A A G G A G G G G G A A A A A A G G GAA A A T A A G G A C A G A A G GA $A \operatorname{GGGGAAAAAGGAAGGAGCCAAAAGAGGGG}$ G G G G G A G G A A A GAA A A G G G GAAAAAAAAAGGAAGGAA AAAAAA GACCCCAAGGGGGGAAAACCCCGAAGCCGGGGTTGAAAGAGA GAACAGGAGGAACAAACAAGAACAAGGAGGGGAAGGGGAAGA G GACGGGGAACAGAGAAAGGAGAGCCGGGAAGAAAGAAAAAG G G G G A G A G G G C A G G G G G A A A G G A A G G G G A A GACA $A$ G A G G G G A G G GAGGAGAGGGGAAAAGCAGGGAGGAACCCCGGACAGAGAA GAGAGAGAAAAAGGCAAGACAAAAGGGAGAAGGAGGGGGGCC G GAAAAAAGGGGGGAAAAGGGGCCGGGGAAGGGGAAGGGGGG G G A A A A G G G G G G A A G G G G G G A A G G G G A A A A A A G G A A G G G G G A G GAGAGAAACAAGAGAAAAAGGGGGGCCAACCAGAGGGGGGG A G G G G GCAAAAAGGAAGGCCAAGGGAAGAAGGAAGACAAAAA
 A A G GAA A G GAAAAAGAACGAACGGGAAAAAAGAGGGAAGAAA AA $A G G A A A A G C A A G A G G G G G A G A G C A A G A A T T A A A A A A C C A G$ A G G G A A A G A A G A G G G A A C G A A A A G GAA $A \operatorname{AGGGGGGGGCCGGCC}$
 $A G A C G A G G A G G G A A G G G G A A G G A G C C A G G G A C A A G A A A G G G A$ G GAGGAAAGAGGAGGACAGGAGAGAAAAAAGG $11005000-9$ A A A G G G A A G GAAGGGGAAGGGGAAAAAAGGGGCA AAAGAACCACACGAAGGGGGCCGGAAGGAAGGCCAAAAGGAA C C A A A A G G G G A A A A G G A A C C G G G G G G A A A A G G G G C C G G G G G G G GCCAAGGAAGGGGAAGAAGAGAGAGACGGAGAAAGGAGGGA C C GA GAAAGGAAGGCCAAAACCGGAGGAGAAACAAGGGAAAA C CAACCGGCCAAAGGAAAGGGGGAAAGGGGGGCCAGCCGGGA G GA A G A G G G G G G G G G G G G G G G A A A G G G G G C G A T T G GAA G G A A G G GA GAA $A \operatorname{AGACCGGGAAAAAGGAACXAGAGGGCAGAAAGGAA}$
 CCGGAGAACCGAAAAAAAAAAAAAAAAACCAAGGGGGGAAAG AAGGAACCGGAAAACCAAGGAAGGGGAAGGAAAAGGTXAAGG1 AAGGGGAAGGAACCAAGGAAAAAAAATTCCGGGGCCGGAACC AAGGAAGGAAAAGGAAAAGGAAAAAAAAAACCAACCGAAAAA G GAA A G A A A A $\mathcal{A} G G G G G A A A A G G G G C C G G G G G G A A A A C C B G A A$ A A A A C CAACCGGCCGGCCGGAAAACCGGGGAAAAGGGGGGGG G G A A A A A A G GAACCAAAAGGAAAAAACCGGAAGGAAAAAA G G AAGGAAAAGGAAAAGGGGGGAACCAAGGAAAAAAGGGGCCAA G G G G G G G G A A C C G G G G G G G G G G G G A A G GAA A GCC G GAAAAAA AAAAGGAAGGAAGGGGCCAAGGAAAAGGCCGGAAGGGAAAGG G GAAAACCAAAAAACCGGGGAAGGAAAAGGCCAAAAGAAAGG G G G G A A A A G G G GCCCCAAGGAAGGAACCGGGGAAGGGGCCGG AAAAGGCCGGAAAAGGGGAAAAAAGGAAGGGGAAAAAAAAAA G GAAGGAAAAGGGGGGAAAAGGGGAAGGAAGGAAGGAAAACC AAGGAAAAAAGGGGCCAAAAGGAAACGAGGTTACAAAACGAA GCGAGGGAGGGGAAGGGGAGACAGGGAAGGGAGGAAAAGAAC GAGGTAAGTTCAAAGGGGGGCAAAACGAAAAAAACAAAGGGG A A G G G A A G GAAAC C G G GAAAAGAGCCAGAAAACCAAAG G GA G AAGAAAAGGAACGAAAAAAACCGGCCAGAGGAGGAAGGGGAA

G G G G A GAGGAGGGGGGAAGGCCCCAAAAAAAAAAGGAAGGAA A ACCCCAACAAACAAGAAAAAAGGAAACGAGAACAAAGAGGG CAGGAAGGAAGGCCAAGGAGGAAGGAAAGGAAAGGGAGAGAA G G G G GAAAGGCCAAAAAAGGAAGGGGAGAAAAGGACGAAGAG A A A A GACAGAAAGGGGGAAAACGGAGGGCCAAAGGAAAAAAA G G G A A A A G A G T A A G G G CAA $A \operatorname{GGGGGCAATGGAAAAAGAAGACA}$ AAAGGGAAAAAAAAAAGGGGAAGGAAGAAGAAGGGGAAAAAA AAGAAAGGCCGAAGAGAGCAGAAACCAGAGAAAAACAGAGAG GACGAGACGGCCAAGGGGCCGGGGAAGGAAGGCCGGAAAAAA GAACCCAGCAGAAAAGAGAAAGAACAAGAAAGAGGGGACAAA G G G G G G T T A A G G G G G G A A A A G G GAGGGAAAGGGAAAAAAAAA A A TAAA A G GAA $A \operatorname{AAGGGGGAAGGAGAGAGCAAGGGGAGGGGGG}$ A A G G G GAA A GAAAAAAGGAAAAAAGGAAACGGGCGGGAAAAG A GAAGGGGAGGGGGAACCGGAGAGAAAGAAGAAAGAGACCAC G GAAAAAGAACCGGAGCCGAAAAAAGGGAGGGAGAAGGAGCC GGCCCAAGGAGGAAACAAGGAGAGAGACGAGGGGAGGGAGAA AACCGGAAGGGGAAAAAAAAAACCAAGGGGCCCCGGGGAAAA
 A G GAGGAGGGGGAAAAGGGGAAAAACAGGGGAAAGACCGGGG G GAGAGGGAGAAAAGGGGAAAAAAGGCCGAACAAACAAAAAA AAAAAAAAGGGCGAGAGAAGAGGAGGGACAAACCAAAAGGAA G GAAAAGGGGAGGGACGAGGAGGGGGAAGGGAAGCCCCAGAA G GAAAAAGAACCGGAAAGAAACGGAGGGAAGGCCAGGGAGGG G GAAAACCAAAAAAGAAGGAAAAAGAAAAAGGAAAACCBGAA A G G G A A A A A A G ACC CACCGGGGGGCCCCAAAAGGCCAAGAGG AAGGGAAAAACCGGCCGAAAGAAAAACAAAGGAACCAAAAGG AAGGAAGGAAAAGGGAGACCAAGGGGAAGGGAGAGGAACCBG G GAACAGAAACCAAGGAACCAAGACCCCGGCCAAAGAGAGAA G G A A A A A A A A A A A GAAA $A \operatorname{AGGCCGGAAAGGAAAGAGGGAGGGG}$ AAAGGGCCAACCACGGAAGGAGGAAAGGGAGGGGGAAAAA GG G GAA A A A A A A A GAA $A$ G GAAGAGCGGAAGGAGAAAAGGCCBAAA G GAACCGGAAAACAGAGGAGGGGAAGGGAGGGCCGGGGCCGG
 AC GAA A G G G G G A A A A A A A A C A GAG GAAAA G G GA A G G G G G G G G GAAAGAGGAAGGGAGGCGTTGGTTAAGGGAAAAAAACCACAA AAGGGGAAGAAGAAAAAAAGGGAGGACCGAAGGAAAAAGGGG G G G GAA A GAAGGAAAAGGCCAAAGGGAAAACCGGGGAGAAAG A A A A A GAATTAAAAAGCAAAAGGGGGGGAGAGGGGGGGGGGG A A G G GAGGCCGAACAAGAGAGAAGAGACGGGGAAAAGAAACA G GCAAAAAAGAAGAGGCCGCAAAGAGGGGAAGGAAGAACAA $G G A A G A G G G G G G G A A G C A G G A G G A G G C A C C A A G A A A G G G G G G$ C C A A A A G G A A G G G G A A GAGACCAAAAAAGGAAA AACAGAGAA A G G GAA A A GAGAAAAAAAAAAACCGGAAGGGGAGGAGAAGAA G G G A G G G A A A A A A A G G G G G G C C G G G G CA $\mathcal{A} G G A G G C C C C A G G G$
 A ACA $\mathcal{A} G \operatorname{G} A A G G A G G A G A G C C G G A G G G A A G G C C G A C C A A G G G G$
 G GCAGAAGAAAGAAGGAAGGAAGGAAAAAAAAGGGAGGAGAT A G G GAGGGAAAGAAGAGAGGGGAAAAAAAAGGGGGAAAGAAA G G G G G G A A G G G G C C G G G G A A G G G A CA $\mathcal{A} G A A A C A A C C A A A G G G$ A G G A G GA $\operatorname{A} G \mathrm{G}$ G A GAAAAAGGGCAAGGGAGAGAAAAAAAGGGGCC G GAGCCAGAGAAAAAAGGAGGAGGGGAGAGGGAAAAGGGGGG A G G GAGCGGACAAAGACCAACCAAGGAAGAAAAGAGGGCAAA G G GAAA A $A$ A $A$ A A $G A G G G A A A G G G A A A G G G G G A G G A A G G G A A A$ GAAGAGGGAAGGGGAAGAAAAAAAAAAAGGGGGGGGAAAGAA
 A A A A A C G G G GATGAGGCCGGAAAAGGAAGGGAGGAAGGGGGG A G GA $\operatorname{A} G A G A G G G A A A A C A G G C C A A A A A A A A G G A A G G A A A A A G$ ATGAAAAAGGGGAATTGGAAAGACAGGGAAGGGGCCAACCBA

G GAGAGAAGAAAGGAACCAAAAAAGGAAAAAAAAGGAAAACC A A ACGGAAAAGAGGAAAAAGAAAGAAGAACAGTTGGGGGGAA A A A A G A A A G G G G A A GAAAA GAAAAAAAGAAGGCAAAGAGACC GACCAGCCAAGGGAGGGACAAAAAGGACGGACGGCAAATAAG A A G GAGGGGGAAGGGGTTCCAAGGAAAAGAAAGGAAAAAAAA G G G A A A G A A A A G G A G G ACC CAAAGGGACAGGATACCGGAGAA GAAA A $A \operatorname{G} G A \operatorname{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A A A A A A G G G G G A G G G C C A A G G A A$ AAAAAAGGGGAACCGGCCGAGGGGGAGGAGAGAAAAAAAGCC AAACGAGGAGGGACCCGGGGGAAAAAAAAAGGGGAAGAAGAA AACCCAAGAAGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG G G G GACACGAACGGGAAGAAGGGAAGCACAAGGAAGAGCGAG A A A A A A A A A G G A C C G G A A G GAA A G GAGGAAGAGGGGGAAAAA G GAA $A \operatorname{GAAAAACCAAAAAGGAACAGAGAGAGAGGGGGAAAACA}$ $G G C C A A A G A A G G A G A G A G A C A G G C A T G A G G G G C A G G A A G A A A$ A A GAAAGGCCGGGAGAAGAGAAAGAGAGGGAAAAAACACAAA $C \subset C A G A A G G G G G A C A G A G G G G A C C G G A A A G G G A G G G A G G G C A$ G G G GAAAGACAGAACAAGAAGAAGCCGGCCGAGAGGAAAACC G G A A G GAA $A \operatorname{G} G \mathrm{G} A A A A A G G A A A A A A A A C C G G A A G G G G G G G G G G$ $G G C C A A G G A A G G G G A A G G A A G G G G G G C C G G G G A A G A A A G G G G$
 AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G C \subset \mathrm{C} G A C A G C C G A G A A A G A C C A A A A A A G G G G G C$ C C G GAAA $A \subset A G G A A G G G G G A A C G G A G G G C A A C G G G G G G G G G G$ A GAAAGAGAGGGGGCACCAGAGAAAAGGAAGAGAGGCCAAAA
 GAACGAAAAGAACAAAGGGGCAAACCCCCCGAAAAAACAGAG A A C C A A G G G G A A A A A A G G G G G G G G G G G G C C A G A GA GA G GAC C C CAGAAAAAACCAAAAGGAAGAGAGAAGGAACGAAAGAGGAA A A A A G G A A A A $\mathcal{A} G G G A A G G G G G G G G G G A A C C G G A A C C A A A G G G$ A A G G G G G G A A G G A A G G G GCACAGGGGAAGGAAA $\mathcal{A} A A G C C G G G G$
 $G G C C C A A A A A A A G A A A A A A G A A A C G G A G A A A C A A A G G$
A A TAGGAAAAAGGAAGAAACAAACAAAGGGGAAGGAAAAGG $C \subset A A G G G G C G C C G G G G G G A A A A G G G G A A G G A A A A C C C G G G A A$ $A G C C G G G G A G G G A A A G C A G G G G A C A G A A G G A G A A A A A A G G G G$ AAGGAAGAGGCCGGAAAAAAAAGGCCAAAAGGCAAAACGGGG G G G G G GAAAGAAAGAAGGAGACAGAAAGAAACAGAGGGACAA AAGGGGAAGAAGCCGAAAGGAAAGAGAAAAGACAGGCCGAGG ACAGAAGGGAAGGGGAGGAAAAAAAGAGAGCGAGGGAAGGGG C GCC G A G G G G A A C C A T A A A A A A G G GATTXAA GAGGGAAACA G G
 GAAAGGGGAGCGGGCCAAGGAGGAGAGGAAGGAAGAAAAAAA CAAGGGAAACGGAGGAAGACAGAGAAGGGGAAAAGGCCAAAG GAAAAA AA $A$ A A A GAGGGAACAGGAAAAGGGGAAAAAAGGACBG G GCCAAAGGGGGGAGAAAGGGGAGAAAAAAGGGGGGGGAGAA A A A A G G G G G G A A G GCCAGACGGAGACAGAGCCGGGGAA G GAA G GAA A G A A G G G G G G C C G G G G A G A A G G A A G G A A A G G A G A A G G A AAAGACTTACACGAGAGGGAGGAGGAAAGAAGGGTTAAAGGG GAAGGGAAGGAAGGGAGAAAAGAAGGCAGAGGAGAACAAGAA A A A A A A G G A A A A A A A G G GCCGGGACCGAAGGAAAAAGACAAA GAACCCAAGAAAAAAAAAAGGGAAGGAGAGGGGGGGGGAAAA A GAGAGAGGGCCGGAGGGGAAGAGCCACGGGAGAAAGAAAAA AA $A G A A A A G A G G G G C A A A A A G G A A A A A A G G A A A G G G G A G G G G$ GAGGAAAGAAAAGAGGAGGGCCGAAAGGAAAAAACAAAAGEG AAAGGGAGAAGACAAAAAGGGGAAGGAACAAGGGAAAACCGG G G GACCAGGGTTAAGGAAGGAAAAGGGGGGAAAGAGGGAAGG A G G GAAAGCGCCAACCAAAGGAACCACAGGAACCCCAAACAG A A A A A G A G A A A $\mathcal{A} G G G G G G A A G G A A G G A A A A G G A G G A A G G G G G$ $G G A G G G C C G G A G G G G G A G A A A A A G G G G G G A G G C C A G G G A A A A$ G G GAAA A GAAAGGAATAGAGCAGGAGGGGGGGGGGGAAAGCC

AAAAACGGAAGGGACAAAACAAGGAAGGAGGGGGGGAGGGGG
 G GAAGGCCAAGGCCCCGGGGGGGGAAAAGGAAAAGAGGCACC GAAAAAGGGGAAAAGAAGGGAGAGGGAAGGAAAAAAAAGGCC A A G G G G G G G GAA A GAAA A A G G G G G G G A A A GAAAAAAAA A A A A AAGGGGCAACATGGCCCCGGGGCCAACCGGCCGGGGAAAAAA A A G G A A A A G G A A G G A A G G G G G G G G A A A A G G G G C C G G C C G G G G C CAACCGGAGGGGGGGGAAAGGGGGGAAAGAAAAGACCAGAG A GCC C G A G A G G G G G A G T T G A A G A A A GAGGAAGGAAACAAAAA AAAAGGAAGGAACAAAGAGGACGCGCAGAAAGGACAAGGAAG AAGGAGAAATAGAGGACCGGAAGGACCCAAGAAGCCGGAAAAA G G G A G A C C A A A GAA $A \operatorname{GCC} G G A A A A A A G T T A A A A A A G G C A A A$ C C G G A A C CAAACAAAAGGCCAAGGGGCCAAGGAGGGAAGAAA A A A G A A A A A A G G C C A A G A G A A G A ACCCCCCAGACCCAC G GAA G G A A A A A A G G T T G G G G G GCCGGCCAAGGAAAAGAAAAGAGGA CAGAAAAAGGAAAGGGTTGGGAGAAACCAAGGAGAAGAGAAA GAGGAAGGAAGGAAAGGAAGAAAGACAGGGAAAAAGGAAAAA C CAAAAGAGGGGAAAAAACCCCAGAAAGGGAAGACAAAAGAG GAAGAAAAAAAAAAGGGAAAAAAAGGGAGAAAAAGAAAAAAA
 ACGGAAGGAAACCCGGAAAAGGAAGAAACAGGAGACGAAGAG G GAGATGGACGGAGAAGGGGGGGGGAAAGGAGAAAAAAGACA A A A GCCCCGGAAGGGGCCAGGAAGACGGAAAAGGGGCCAAAG CAGGACAAGGAAGGAACCGAGGAAAAGACAGGCCGGGAAAAA A A C C G G G G G G G G A A A A G G G G A A A A G G C C A A G GAC GAGA A A A A A GAACCTAGGGGCCAGAGGGAGAAAGAGGGAAGAAAGAAGGG ACGGGAGGAGGGGAAAGGTTAAGGAAAAGGGGAAAAGGGGAG GAGAGAAAAGAAAGAGGGGGAAAAAAGGAAAGGAGAAAGGAG G G A G G GA G GAGGGAGGACAGGGCAAGAAGAGAGGGGCCAACA GGCCGGAAGGGAGAGGAAAAAAAATTAAAACCAAAAAAAAAA A A C C A A A A A A C C A A A G C A A A A G G G G G C C G A G G C C T T A C A G G A A G G GAAAAAACGCCGGGGCAGAGGAAAGAAAAAGAAGGGGTT G GAGAAAGAACCGGCACCGGAAGGCCAAGAAGGAGGGAAGGG $A G C C T T G G G G A A A A C C G G G G A A G G A G A G A A A A G G G G G G A A A A$
 $A A C C A A G G G G G G A G G G G G C A A G G G G G G A A A G A G G A G G G A G A A$ AAACGAGGACAAACAGGAGGAAGAGGAAGACCGGAAGAAGAA CAGGAAAAAGCCGGAAGAGGGGTAGGAAGAAGGACCGGAGAAA
 G G G G A A G G A A C CAATACCGGGGAAAGTTAAACACAAAGAACC AAAAGGGGGGGGAAAAAGTACAGAAAAAAAGGGGGACCAGAA $G G A A A A G A C C G G C A A A A G G A A G A A A G A A A G A G A G A A A G A G A A$ G GAGGGAAAAGAGGAAGGCAAGAAGGAGGGGGAAGAGAAAAG GAAAAGGGGGGGAGGAAGAAGGGGAGAGAAGGGAAAGAGGAG
 G G G A A T G G G G G GAA $A \operatorname{G} G X A G G A A A A A A G G C C C A T A A G A G C A A A$ A A A A C C A C A G A A A A A T GAGAGAATTAACAAAA GAA G G GAAA G G
 G GAAAAAAGAGGGACCAAAAGACCAAGAGGACGAGGGGAGAG A G GACCAGAAGGAAAAGGCCGAGGAAAAAGAGGGGGGGCCCC A GAGCGGAGAAAGGCCAAGGGGAAGGGGAACAGAGGGAAAGG GAAAGGGGAAAGAAAGGAGGAACCGAAGAGCAAAGAATCCGG $A C G A C C G G A A A G A A A A A G G G A A G G A G A A A A C C A A A C G G G G A G$ A GAAAGGGGGGGCAAAGGAAAAAAGGAAGGGGAACAGAATAA $A \subset A G C C A A G G A A A A A A G G A A G G G G A A A A A A A A G G A A A A G G A A$
 G G GAACAGGAGGGAAAAAAGAGGGAAGGGAAGAGAAGGAGAG G G G G G G G G A A A GAAAAAAGAAGGGGAAAGCCAAAGAGCCGGTT AGAGGGCCGGGGAACCAACCAAAAAGAAAACCCCTAGGAATT

AAAAAAGGCAGACAAGGAAGGGAGAAAAGAAAAAGGGGAGAG A GAGAAAGGAAGGAAAAACCGAAAGGGAAGAAGGACGBAAAA A GAGGAAACAGGAAAACCAAGGAGAGGAAGGAAGAGGGAGAAA GGGGCCAAGGATGGAAAAAAGACCAGAGAGGGAAAGGAGACA AACAAAAGGGGGAGCAGAAGAAAACCAACCGGTTGGAAGAAA G GAAAAAAGGAACCAAAAGGGGGGAAAAAAAAAAAAGAAGAA A G G G A A A A C C G G A A A A A A GAGGAAACCCGGCCTTAGGAAGAA GAAGCAGAAGCAGGGGAACCAGAAGGAGAGGGAAAAAGAAGAG G GAACAGGGAAGGGAGGAAGGCCAAGGAGAGGAGGGAACAAA GAAGAACCAAAAAGAACCGAAAACGGGGCCAGCCAAAAAAAG $A G C C G G G G G G A A A G C C G A A G C C G G G G G G G G G G A G A A G A A A G G$
 G GAA $A \operatorname{GA} A A G G G A G A G A G C C G G G G C A G A A A A A G A A A A A G G G G$ C CAA $A G A A A C A G A G G A A G G A A A G G G G A A G G C C A G A G C G A A A A$ GAAACCAAAAAAGGACGAGGCCAGGGCCGGAGAGAGGAGGGA G G G G G GAGGGAAAGAGAAAGCAAAAACCAAAAGGGGCCGGAG A A G GAACAATGAAAAAACGGGAAAAAGAGAAGCAAAAAAAAA A A GAAAACCAAACAAAAGAAGGGAAAGGGACCCCGAGGAACA AGCCAAAGGACAACAGAAAGCCGGAAAAAAGGCCAAAAGGAC A G A A A A A A A G A CA G C CAAAAGGCCGGAAAGGGGAGAGGAGGA AGAGGAAGCATAAGAGGAAAAAAAAAGACCAAGGCAAGACGG A GACAGGGCGGGGGAAGGAAAAGGAAAGGAGCGACCCACCAA A A A A A A GAGGAGAAGCAGAAGAAAGGAAGGGGGAATAAAAAA C CACGGCCGGAAGAAACCCAGAGGAAAAGGAAAAAAAAGAGA G G G G A T G A GAAAA $A \operatorname{A} A A A A G G G G G A G A G G A G C A G G C C A G A A G G$ G G G G G G G G G A C C G G G A C C A G A C G G T A A G GAGGC CA G G A G G A A ACGGGAAAAGAGAGAGGGGAAAGGACGGGGAAGGAAAAAAAA A A A A G G G A A T C A A A GAAA $A \operatorname{AGGGGGAAAAAAACATAAAACCGG}$ A A A A A A A A A A GAGGAGACCCGGTTAGAAAACAAA GGGGACAG A G GA $\operatorname{G} A C G G G G G C C G G G A A G G G G G G G G G A A A G G A A C A A A A A T$ GAGAAAGAAAGGAAAGGAAAGGGGAAGGAATTGGGAA
AAAGGGAAACCGGGGAAGAAGAGGGGGGAACAGAGGAGCGA A GCCGAGGCCGACCGAAAGGCCGGAGAACAAAGAGGGGGAGG
 G G A A A A A G A G A A A A G GCCAAAGACAAAAAGCCGGAAAATTGG G G G GAA $A \operatorname{GAAAAAGGCCGGAACCAAGGAGAAGGGGAACCAAT} T$ AAAAACGGAAAGAAGAGGAACAGAAAGGGGGGGGGGAGAAGA A G GAGAGGGAAAAACCGGAAGAGAAGGGGGAAAAGGGAGGAA GGCCCAAGAGAGAACACCGGGGACAGGAAGAGGAGGGGGGAA A A A A G G A A A A $\mathcal{A} G A A G G A A G G G G G G A A G G G G G G T T C A A G A A G G$ A G G G C GAA A G GAA A GAAACGACAAGGGGAGGGAAGAAAAGAA G G A GCCGGCAA GAGGGAGAGACAAGGGGAGAA GAGGGGGGGG GAGGAACAAGGGCAGAAGAGAAAAGAACAGAAAAGGAGAAGG A A G G A GACGGGGCCAGGGCAGAAGGGAAAGGAAAAAAAAAAA G G G G G G A A A A $\mathcal{A} G G G C C G G G G A A G G G G G A G G G G G G G A A A C C X C$ CAA GAAGGAGAGACAAAATAAAAGAGAAAAAGTTCCAACCGG

 A A G GAA $A \operatorname{A} A A G G A G G A A A G G A A G G G G G G G G G G C C T T G A G G A G$ G G G G G G A A G G G G A A C C G G G G G G A A G G A A C CAG GAAA A A A A G A A A GAAGCCGAGAACGAGAAAAAGGAATTCCAAGGAACAAAAC G GAAAGGAACAGGAGGGGCCAAGGAAGGGGCAGAAAGAAACAC T T A A A G G A G G A G G G G G G G G G G G G G A A G G A A C C A A A A G G A A A A AAACCCGACAGGGGGAGAAGAGCACAAAAAAAAGGACAAAGA $A \subset A A G G A A G A G G G G A A G C A A G G A A G G A G A G A G A A A A G G G G G G$ A A A A A A G G A G G A G G A A C C A A A G GACC G GAA G GCCA GACAG G G AAGGAGCCGGCCAACCGAGAGAGGCCAGGGGGGGCACAAAGG
 CAGAA $A$ A $A G G A A G G A A A A G G A A G G G G A A G A G G A G G G G G G G G G$

AAAGGAGGCCAAGCGGAGGGGGAGAACCAAGGGGGAAAGGGC A A A G A A A A A A A A A A G G A A G A A A A G G GA GAA GAACCCCC G G G A CAGAAAGGGGAAGAGGGGAAGGAAGGAGAGGAGGGACCABAA ACGGGGGGAAGAGGAGAAAAAGAAAAAGGGCAGAGAGAAGAG $G G C C A A G G A A G G G G G G G A A A G G G G G G A A G G A A A A G G A A A A A A$ GAGGGGAAGAAAAAGAACACAAGGGGGAGGGGGGCAAAGGCC A A G G G G G A G G G G C A G A A A G G G G A G G A G G A G G G A A G A A G A A G A CCGAAAGAGAGAGGCCAGGAAAAGAGCCGGAGAAAAAAAAGG GAGACCGGGGGGGAAAAAAGAAACGAGAGGAAAAGGGGAGAA GAGGGGGGCCGGAGCGGAGGGGAGGGGGCCGGAAGGGGGAGG A GAGAGGGGGAAAGGGGGACAAAAGAGAAAAAAGGGGBACAA A A G GAA A GAAGGCGAAAAACGGAAAAGGAAAGACGAGAACAA G G G G A A A C G GACGGGGGGGGGGACAAAAAAACGGGGAGAAGA AC G G G GA G G GAAGAAAGGTTGGAAGAAGGAAAAACAAA G A A A A A A AAAGAGCCCCGGAAGAGGAAGGGGGGAAGGAAACGAAAGAAA GAGGAAAAGAAAGGGAGGAGAAAGAGAGCAGAGGGGAGAAGA G GAA $A$ A A A $\operatorname{A} G A A A A G G G G G G A G A A G G A A C A A G G G G G G G G G A G$ A G G G A G A G G G A G A C G G A G G G G G G G A A G G C C G G T T G G A A C C G A GAGAAAGGAAAAGGGGAGGAAGAAGAGGGAGACAAAGAAAAG A GAAA A A GAAAAAAAGAAAGGGGAGGGGGGGGGGCCGGCCCC AAAAAAGGAAAAGGAAGGGGAAAAAAAAAAGGGGGGGGCCGG
 $A A G G A A G G G G G G G G A A G G G G G G G G G G G G A A A A C C G G G G C A A A$ AACCAAGGAAGGAAAAGGGGAAAAAACCAAGGACAAAAAAGA A A GAA $A$ AAACAAAAAGGAAAAAGGGGGAAGAGGAAAAAAAGGG GAAACCAGACGAGGACAGACGGGAAGAAGGAGAAGAGAAGGA A G G G GACCAAGGAGAAGAAACCAAGAGAGGGGAACAAAGGCC GAGAAAGGGAAAAATAAGAGGGCCCCGGGAGAGGAGGAAAGA G G G GCCGGGGAAAAAGAGGGAAAGAACAGGAAGGGGGGAAAA AGGGAAGAAAAAGGGAGAGAGAAAGGCCGGAAAAAGGGAGAC G GAGGGACGGCAGGAAACAAGAGGGACCGAGAAAAGAAAACA G G G GAACAGACCCCAGGGAGGGAGGAGAAACCAAAAGGCCAA G GAGGGCCGAAGAAAAAAAGGAGGGAGGAGAAGAAGAAAAGG A A A A G G G G A A G GAAAAAA $A A \operatorname{AAAAAGGGGGAGGGGGAAGGGGGG}$ A A TAA A A G G G GAAACCGGAGGGAACCAAAAAACCGGAGAAGA A A A A A A A A G G A A A A A A GGAAAAACGGGGAAAGCAAGAAGAAA A G G GAA A A G G GAGGAAAAAAAAAGCGAAGGAAGGGGGGAAAA A G G G T T G G A A A A A A A GAACAGGGGGGAATTGACCGACCCCCC A A GAGGAGGGGGAGAGAAAAAAGGGGAAAGAAGGCCCCAAAAA
 GAAAAAAAGCAGGAACGGAAAACCAAAAGGACCCGGGGACAG G GAAAGGAAAGGGGGGCCGGCCAAAAAAGGGGGGAGAAGAAA AAAAAAAAGGGGAACCGGAAAAAAAGAAAAAAGGAAGAGGGA A G A A A G G A G G A G G G G G G G G G A A A A A GACAC GAA A A GA G G GAA G G G G GAGGGGAAAAAAAAAAGGAAGGAACAGGAACCAAAGAG A G G G A A A A A G G GACAAAAGAAAGAGAAAAAGGAAAAGGAAAA GAGAAAAGGGAGGGGGGGAAGGAAGGAAAAGAGGCCAAAGAG G G G GAAAGAAGAGGGGGGGGGGAAGGGGGAAAGAAGGAAAAG AA $A G G A G G G G G G A A G G A A G A A A A A A G G A A A A A G G A A A A G G G G$
 GACCAAAAGGAACCGGGGCCAGCCGAAGAGAAGGGGGAGAGA A G GGCCAACAACAGAAGGCGCCGGGAAAAACCCCAAGGGGGG A A A A T T G G A A G GAA $A \operatorname{GGGGAAGGAAAGGAGGGGGGACAAAAGG}$ A GCAA $\operatorname{CA} A G G G A G G A G G G G G G A G A G A G G A A A A G A C G G G G G A C A$ $A G C A A G G G G G G A A G G A G G A A G G A A G G G G A G G A C C A G C A G G A A$ A A G G A G G A G G A G G G G G G G G G T T G A A G A A G A A C A A G A A A C G G G GAAGGGGAGGGAAGCAGACAAGGAAAGGAAAGAAGGAAACAT A A T T A GAA G G A A A A A A G G A A A A A A A A G G G G G G G GA G G G G A G A $A A G G G G G G G G G G G A C A A A G A G G A A G G G G C C A G A A C C G G G G T T$

CAGGGGAAAACCAAGACCGGGGAGAAAAAAGGCAAGGAGACA A G G A A GAAAGAGAAGGCCCCAACCGAAAAGTAGGAAAAGGAA AAAAGGAAGGAAAGCACCAGGGGATTGACCGAACCBAACCGG A A A A G G G GAGCAAGAGAAAGGAAGCCAGAGGGGAAAACGGGG G G G G G G G G A A A A A A A A G G G G G G G GAA G GAAAA T T A A G G GA GAA G GAA A G G G A GAGAAGAGGGAAAAGGGAAGGAAGGCCAAACAA
 $A C A A A C G G G G C A A A G A A A C A G G A A A A C C G G G G G G A A G A G G C C$ A G A A G G C C A A A A G G A G G G A A A A G G A A A A G G G G A G A A A A G G A A GAGGGAGGGGGAAGAGAGAAAAGGGGGGGACAGGAAAGACGG A A G GAA A G GAGGCCAGAAGAAAAGATGAAAAGAGCCGGAGAG
 C C C A GCGGAAGGGGCGAGAAGGAGAGAGCCAAAAGAGAGAAG A GAGGAGGAAAAGAAAGGCAAGGAAGCCAGGGGAAAGGAGGG GACCGCCAGGGGAAAAGGAAAAAAAAGAAGAGGGGGAAAGGG A A A A G G G G A A G A G A A G G G G G G G G G GAGGAAACAA $A \operatorname{A} A C C G G G G$ AC GAAAGGCCGGAAGGAAAAGACCAAGGAGAAAAGAAAGGGG T TA G G A G A A A A A A A A CAATAAC GAGAGGAGAAGACAGGGGAA C C G A A G A G A A G GAAAATTACAC GAGGAGGGGGAAAGGGAGAA AAAACAAACCGACCGGAGGACCAAGGAAGGAAGGGGGGAGAA C CAAAAAAAAGGAAAAAAAGGGAGAGAGGAGAGGGAGGAGAA A A A A A A GACCGAGGAAGGGGGGGAGACAGGGGGGAAAAAAAA AAAACCAAAGACGACAAAGGGGCCAGGGACAAGGAAAAGAAA ACAAGGGGAAAGCAAAAAAAAAAAAGGAGAGGGAAGAAAC GA A A A C C G A G G G G G A A G G G G A C G G G G G G G G A A A A T T A A G G G G G G AAAA $A \operatorname{A} G A G G A G A G A A A A G G A A C C A A A A G G G A G A G G A C G G G G$ A G GA $\operatorname{A} A A G G G G G A A A A A A A G G G A C T T A A A A A A A A A G G A G A G G$ GAAAAAGAGAAGAACCCCGAAACCAAAGGGGAGGGGGGGGAG AAAGAGGGAAAAAAAAAGAAGAAAACGGAAGGGGGAGGAGAA G GAACCAAAAGGGGAAAAGCCAAAACCGCCCAAAAAAAG GAAGGGAACCGGTTACGGACAAGGGGGGGAGAAGAGG
A G GAAAGAAGAAACCGGAGGGAGAAGGGGAAAGGGGGAAGG
 GA $\operatorname{G} A A \operatorname{A} A A A G G G A A A A G G A A A A G G G G G G G A A C A A A G G A A G G G$ A GCAGAAAAAGGCAGGAGGGGGCCCCGGAAGGGGAAACAAAC A A G G G A T T $\operatorname{T} G \mathrm{G} A \mathrm{~A} G A A G A G G G G A G A G A G G A C A G A G A G A A A G G A$ A A GAGAAGGGGGAGGGGGGGGGACGAAGGGAGAAGGAGACAG AAATAGAAGGAGAAAAAAAGAGAAGGAGAGGGAAGAAAACBG AGAGCCGAGGAACAGGGGAAAAAAAAAAAACCAAGGGGAAAA A A A C A A A A G G A A G A G G A G G GAA $A \operatorname{GGGGGGAAAGAGGGGCAGAA}$ $G G C C A G G A A G G A G G G G G A G G G G C A A G A A A A A C A C A G A A A G G A$ G G G A A G G G A G A G G G G G A A A A $\mathcal{A} A A \operatorname{A} G \mathrm{G}$ GAGGGGGGAGGGGAGGG G GAAGGAAAAGAAAGGAAGGAAAAGGAAAGGAAAGGACGGAG GAGAGACCAGAAAGCAAGAAGGAAGGAGGGAGAAACGGGGGG C C A GAA $A \operatorname{GAAACAGAGAGGGGAAAAGGGGAAAAAAAAGAAAAA}$ A A C C C C G G G G G G A T G G A A A G G G C A A G G G A A G G A A G G G G G G C C G G G G G GC C G G G G G G G G A A A A C C G G GAAAC A A A A GAA A A G GA G A AAAA A GAAGGAAAGCCGGAAAAAGGGAGGGAGAAGAAAAAAG GGCCCCGGGGCAGGGAAGGAGAGGAACCGGGGAAGAAAAGAG G GAGAGAAAAGGGGGGAGGAAGCCAGAGGGCCGGAGAAGAAG C CAGAGAGAACCGGAATTAAAAGGGGGGCCGGAAGAAAGGAG G G G GAAAACCCCAAGGAAGGAAGGGGGGGGGAAGCAAAGGGG $A C C C G G G G A A C C G G A A G G G G A C A G G G C A G A G G G G G A G A G C A C$ G GAGGGGGCCAAACGGCCAAGGAGAACCGGGGGGGGGGGGGG C C C C C C A A A A A A A A G GAAGGGGGGGAGGACAAAAGAAAAAGG GAAGGAAGACCCAGGGAGAAGGGAGGAGGAGGCAAGAGAGGG G G G GAAAACCGGGGAGAGAACCGAACGGACAAGGAAAAACGG A A A A G G A A C C G G A G G G C C G G G G A G G G G A A C A G G G C C G G G G G A G G G GAA $A \operatorname{GA} A G G A C A G G A A G A A C C G G G G G G G G A A A A G G G G G G$

AAGGGGAAGAGAGGAAAAAAAAAAAGAGAAAGCCAGAAAGGG G G GA GAACAGGGAACCAAAAGAAAACAGAAGAGGAGGGAGAA C C GAAAAGAGAACCAAAAGGAGGGAAAAGAGGAGGGAGAGAG G GAGAGAGTTAGAGACAGGAGGGACCAAGGGGGGCAGAAAAG G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} C \mathrm{C} C A A A A A G G G G G A A A G G G T A A A G G G G A G$ G GAGGGAAAGGGAAGGACAGCAGGGGAGCAGGAAACCCGGGG A G G G A A C C G G C A A $\mathcal{C} G G G G G G A A G G A G A A A A A G G A G G A A A G T A$ G G G A G A A G A A A A GAGAGGGGAAGGGAGGGAAAGAGAAA G GA T G G A A G A A G G G G A G G GAACAGGGAGAAAGAGAGAAAACAAACC G G G GAAGGGGAAGGGGAACCAAGGCCAAGAGAGGAGAACAAA GACCGGAGGGGGAAAGGGCAGAAAAAAAAAAGAAGGCCAAAA $C \subset A G G G C C G G A G A A G A G A G G A A G G G G G A G G A A A A C C G B A G A G$ G G G GCACCAAGACCAAGAGGAAGGCCGGCCGGGAAAAGXAAC A G G GAAAAAAAGGAAACCGGGGAAAACGCCCCAAGCAAAGAC GAGAGGCCAAGGAGGGGGGGAAGGGGCCCCAAAAAAGGGGGG $C \subset A A A A A A A A G G A A A A A A A A G G G G C C A A G G A A G G A A G G G G A A$
 A A A A A A A ACCAAAACCAAAACCAACCAAAAAAGGGGGGAAAA G G G G G GCCAAAAAAGGAAAAGGGGAACCAAGGAAAAAACCAA C C A A G G A A A A G G G G A A A A A A G GCCGGGGAAAAAAAAAAAAAA A A G GAA A G G G G G G GAACCAAAAGGGGGGGGAAGGAACC GAAA C CAAAAAAAACCCCAACCGGAAAAAAAAGGAACCAAAAGGAA A A A A A A A A G G G G G GAACCCCAAAAAAGGAAGGAAAAAAAA G G G G A A G G G G G G G G A A A A A A T T G G G G G G A A A A A A A A A A A A A A C C G G G GAA A G A A G GAATTAAAAAAAGGAAAACCGGGGCCAAACAA $C \subset G G A A G G A A A A G G G G A A A A A A C C G G G G A A A A A A C C G G C C G G$ G G A A A A A A G GAAAA A GAAGGGGGGGGGGCCAAAAAAAAGGAA G G G G G G G G G G A G G A A A G G G G A A A A C C G G G GCCA $\mathcal{C} A A A A C A A G A$ C CAA $A \operatorname{GAAA} A G G G G A A A A G A G G A G A G G A A G C C A G G A A A G G A G$ GAGGAAGGAAGGCCGGGGGGAAGGGGAACCAAGGGGCCGGGG G GCCAACAAAAGAGACGAAGGGAATTAAACAACAAAAGAAGB GAAAAGGGCAAGGACACACCAAGAAAGGAAGGGGGAAACCAC C CAAAAAAGGAAAAGGAAAGGGAAAAGGGGGGAAGAACAAAC AAAGCCAGAAAAACAAAGACAAGGGAAGACGGAAAAAAAAAG GAGGCCGGAACCGGGGAAAACCGGGGGGGCGGAAAACAAAAA A A A A A A $\mathcal{A} G G G G G G G G A G G A A A A G G A A G G A A A A A G A T C A A A A A$ G G G GACAACCAGAAGGAAAGAAGGAGAAGAAGGGAAGAAGAC A G GAAAAGAAAAGGAGCAACAGCCGGGGGAATAAGAAAAGCC A G G A A GAGCCCAGGGGCCGAAAGGAAAAACAAAAGGACAGAG GAAAAACCGGAAAAGGGGGAAAAAGGGGAAGGGGAAGAACBG A A A A GAGAGGAGGGGGGGGAGAAACAGGAAGGGGAGGGAAAA G G G G A A A G ACAAAACCAAACAAACCCGGCCAAGGAAAAAAGG G GAA A A G G GACCACAAAGAAGGGGGAAAAAAGAAAAGAGGGG G G A A T T G G GACCGGGGGGGGAAGGGGAAAGAGCCACGAAACA GAGAAACCGGAGAGGAAAAGAGCCGGGGAAAAGGAAACAAGAG A A G G G G G A A G G G G G G G A A A A GA A G CAAA A G G G A GAA A G G G A A
 CAAGCCAAACAGGAGGAGAGGGAGAACCAAAAAAAAGAATAG G GAA A A G GAGAGAAAAGAGGGAGGAAAAAGAAAAGAGGACAG A A G GCCAAAAAGGGGGGGAAGAAAAAAAAGACAACCGGTAGG A GAAAAGGAGCCAGGGAAAAGGAAGGAGAAAAAGGGAAAGAA G G G G G A A C A A G G G GAAAAAAAGGGGCGAAGGAAAGAAAGGGGA A A A A A GAA $A$ ATTGGAACAAAAAAACCAAGGGGAAAACAAA G G AAAAGGGGAGGGGGCCAAGGGGAAAAGGGAGGGGAACAAGGG A G G G A A A G A G G A CAGAGGGAGGGGAGAACCGGAAAGATAAAG G G A A A A G G G G G G G G A A A G A GAACCCAACAGAAAGGGACCCGG G G G G G G A A A A C C G G G G A GAGGAGGAGACGGAAAAA GAAAA GA GAGAGAGAGGAAGGAAAGAGGGAAGGGGAAAACAAGAAAAGAG $A G C A A G G G A A G G A A A A G G G G A A G A G A A A A A G A C A A G G A C A A A$

G G A A A A T TAAAGGGGGAGGGACAAGAAAAAGGGGGTTAGAA TA $A G G G G G G G A A C C A G A A A G C A G A G G A A A A A A G G G B A A A C G G$ G G G G G G G G GAAA A G A A G GAAAAGGAACCAAAAGAAAAAACAC ACAGCAAGAGAAGGGGTTAAAAAAAAAGAGCCAGGGCAGGAG G GAACGAAGGAGGGAGCAACAAAAGAAGGGACGAAGGGCCGG A A G A A A GAA $A \operatorname{GA} C \subset A A G G A A G G A A A G G G G A A A G G G G G A A A A G$ G G A A G G A G G G A A G G G A G G G G A G A A G G A A C C G G A G G A A G G A A G $G G A G C A G G A A G G A A A A A A G G G G C C A C G A A A A A A A A A G G A A G G$ GACCGGGACCGGACCCGGGGGGAAAAAGCCAAAAAAGGCXAA GGAAAACCCACAGGAAAAGGAAGGGGAACCAAGGGGAAGGGG A A A A A A T T G G G G G GAAAA $A \operatorname{A} A A A G G A A A A G G G G C A G A A G G A G G$ A A G A $\operatorname{A} G A A A A A G G G G G G G A G G G G G G A G A A G G A A A A G G G A A A G G$ A A G G A A G G GACCGAAAAAGGGGGGCCAGAAGGGGAAGAAGAG G G G G A A G G GAAAAACCGGGGAAGAGAGAGGAGAGGAAAGGAA AGAAGGCCAAGGGGAAAAAAAGAAGGAAGGAAGGGGAGCACA A GAGAGACGGAAAGGAGGAGAAGGGGGGGGCAGAAAGACCBG GAAAAGCAGGCCGGGGAAAAGGTTAGGGGGGGAAGGCAAAGB A A A A A GACGGGAGACCACAGAACCGGGGAAAAAGAGAAAGAA GAAGACGGGACAAGGGGGGAGGGGCCGAAAAAAAAAAAGAAA A A C A A A G G GA G G G G C A A A G G G G G G G G A A A A A A A G C CAAAAC C T T G G G GAAGAGAAAGGCCGGCCAAAAAGCCCAAAACAAGGCC G G G G G GAACCGGAAGGAAGGGAAGAATACCAAGGCCCAAGAA G G G GCCGGGGGGAGGGAGGGGACAGAACAAGGGGGGAGAAAG ACAAGGAAAACGAAGAAGCACAAAGAAGAAAAAAAAAAGGAA C C G G G GAAA A GAGACCGGAAAGGAAGCACCGGGGGGAA GAAA A A A G G G GAGGGGAAAACCGAGGAGGACAGAGGCAAACAGAAA AA G GAAAAAAAAAGAGAGAAGGCCAAAAAAAAAAAGAGAAGG C C G GCCGACCGAGGGAAAAGAAGGAGAGAAATAGGGAAAACA GACCGAAACAAAAAAATAAAAAGACCGAAGAGGAGAAAAA GA GACCAAGGAAGGGGGGAGGGGGCCACGGCCGGAAAAGAAAGA

GAAGGGGAGACCAGGGGGAGGAAGAGGGGAGGACAAGAAAA
 AAAACCGGAAGGGGGGCCAAGGGGCCAAAAAGGGAAGGCAGG GAGAAGAAGGGGAGAAGGAGAAAAAAGGAAAAGGAAAACCAC A A A A G A A G A A A G G G G G G G G A G G G G G G A C G G A G G G C A G A A G A A C C G G G GC C G G G G A A A A A A G G G G C C G G G G G G G G G G C C G G A A G G AAGGGGAAGGCAAAAAGAGGGCAGAACAAGGGAAGGAACACC A ACCAAAGCAAAGAAAAAGGGGGGGGAGAGGGAACAGACAAC ACGAAAAGGCGGCCGGGGCCAGGACAAAAAAAGGGGGGGGAA AAGGACAAAAGGAAAGGAAAGAGGGAGGGGAAGAAGGGAATA A A G G G A A G G G A A A T A A A A CAAAAGCCGAAGAGAACCGAAA G G AACCAGAAAAGACAAGAACGGAGAAGAGCCAAAACAAAAACC AA $A \operatorname{GA} A G A A G A G A G A G G G A G A G G A A A G G A G G A G A A G A A A G G A$ $A G G G A G A C G G A A A C G A A A G G G G A A G G A G A A A A G G A G A A G A A A$ GAGGCCGGGAGAAAAAAGAGAGGAAACAAGCCCAGAGAAAAA ACGCACGGAAAAGGAGAGAAACAGAGGACCGAAAAAAAAAGA A GAA A GAGGAAGAAGGCCGGCAAGGGAGAGAGGGGGGAAAGG AAAAAAAGGAGGAAGGGAGGAGGGAGGAGGGAAAAGCAGCAA
 AAAAGGAAAGGGCAGGAAGAACGAAAAAGGAAAA GGGGGGGG GAAGGGGGAAGGGAGGGATTAGCAGAGGGGAAGAAACAAAAA A A G G G GCCGGAAGAGGAACCAAGGGGAAAGCCGGCCAAGGAA G G G GAA A G G GAACCAAGGAAGGGGGGAAAAAAAAGGGAAAAA G G G G G G G G G G G GAA A GAAAAACCGGGGAAAAGGGGGGAAAAAA G G G G G GAAAAAACCAAAAAAAAGGCCGGAAAAAAGGGGAAAA

 G G GAGGTXAAAGCCGGAAAAAAGGGGGGCCGAAGGAGAAAAA

AAGGCACAGGAAAAAACAGACAGAAAGAAGCCAAGCGGGGAA $C C G G C C G G G G G A G G A A G G A G C C G G A A G G A A G G C C C C A A A A C C$ C C G G G G G G G G G GAA A G A A G GAA A GAAAAAAAAAACC G G CA A A G GAACCAAGGCCCCCCGGGGTTAACCGGGGAAGGAGAGACAA G GAAAAGGAGGGGACAAAGGGGAAGAGGGAAGACCAAGAGGG A A G GACAAAGAAGGCCAGAAGGGGACGGAAAACCAAGAAAAA C C GGCCAACCAACCAGGATAAAGGACGAAAGGGAGGGGCCGG G GAGAGGGATAAACAAGGAGAGGGGGGGGGGGAGAAAAAGTT GAGGGGGAAAAGAGGGAGGGAAGAGGAACAAAAGGGAAAACC GAAGGAGAAAGAGGCCGGCAAAAAAAGAGGGAAGGAGAGACA A GAGAAAGGGCCGAGGGGGGAGCAAGACAGACGGAAGGAGAA A A A A G G G G A G G G A A A G TAGAGGAAAAGGGGGGAAAAGATTAA C C GAA A G GAAATGGCCAGCAAAAAAGAAACGGGGGGAACAAA C C C CAAAA A $A \operatorname{AGAGGGGAAGGAAAAAAGGAGAAAAAAAAGAAA}$ G G G GAA A G G G G GCCAGAAAGAAAGAGGGGGGGGAGAGACC A A GAGGGGAAAGGCGGAAGGGGCCGGAAGGGGAGAAGAGAGAAT GAGGGGAGAAGGAAGGCCAAAGCCCCAGGGAAAAAGGGAAGG $A A C C G G A A A G A G C C A A G G A A A C G G G G G G A G A A G G C C G G G G G G$ $G G A A G A G G A A C C G C G G G G C C A A A G G G A A G G A A G G A A G G A A C A$ C C A A C G G A G G G A A C A G G G G G G G G G G A G G G G C A G G A A G G G G G A GAGAAGGAGGAACCAACCGGAGAGGGAAGGGGCAAACAAAAC C C G G GAGAGAAAGGCGAGAAAAGAAAAAGGAAAAAAGAAAAA C C A A A A G G A A A C CA A GAGGGAAAAAAGGGGGGGGGGCCAAAA A A G G G G A A G G G G A G G G A G G G A G G C G G G G A G G G C C A G C C A A C A $G G A A A A A G G A A A G G A A G G A G A A A G C C G G A A A G G G C C G G A A A G$ $A C G G A A G G G G A A G G G G C C A G G A A A C C A G A G C C G G A A G G A A G G$ A GAAAAAAAAAAGGGAACAAAAAAGAAACCGAAGCCGGACAAA A A G GAGGGAAGAAAGGACGGAGGAGAGAGGGGCGGGAAACAA A A A A A A G G GAAAGGGGCCAAAAGGGGGGAAAAAGGGAAAACA A G G GAAGGAAAAAACAAACCGAGAAAGGAACCAAGAAAAACC C C A A G G G G G G A GAAACAGAAGGCAAGGGGACCCCAGAGAGGA AA $A G G G A G A G G G G A G A A A G G G G G A G G A A G G A C A A G G A G G G A A$ C C A A G G G G A A G GAA $A \operatorname{GAA} A T \mathrm{~T}$ G GAGGGAAAAGAAAGGGGAAGA G G G GAACCAAAACCAAGAAAAAAAACCCGGCCCAGAAAGAGA
 AAAGAACAGAGAAGAAAAGAAGACAACGGGCGGGGAAACCGG G GAAAAAAAAGGGGAAAAGAAAAAATAAACAACCGGCAAAGAG G G G GAACCGGAAGAGAAAAGAGAACGAGGGAAGGAGGACCTT G A A A G A G G A A G A G A A G A A G G A A A A GGAGCAGACC GAA G GA G G A G G GCCGGAAAAAGGGGGCCGGGAGGGAAGGGAAAGGAAGAA AAAGAAAGGGCAGGAAGGGGAAAGCAGGGGAAGGGGGAAAAA
 G GAAAGACGAGGAGAAGGGGGGGGAAAAAAGAAAGGGGAAAG G G G GAGGGGGCCAAAGACGGAAAGGGAAGGAGAAAAAAAAAA $C \subset G G A A T A A A G G G A G A A A G G G A G G G G G G G G A A A A A A A G G G G G G$ A GCACAGAGAAAGGCCGGGGAAAAGGCCAGAAAAGGCCCCGG $G G G G A A G G A A G G G G A A G G A A G G A A A A A A A A A A G G G G G G G G G G$ A A G GAA $A \operatorname{GGGGGGGAAAACCGGCCAAAAGGAAAACCCCGGGG}$ G G G GAAAAAACCGGGGAAGGGGGGAAAAGGGGGGGGGAAAGA G G G G A A G G G G A A A A C C G G G GAACC G G G G G G G GCCGGG GAAA A G GAAGGCCAAAAGGAAAAAAGGGGAAAAAAAACCAAAACCCC A A G G A A A A G G G G G GAA A GGGGAAAAAACCGGAAAAGGGGAAAA AAGGGGAACCAAAAAACCCCGGAAGGAAAAAAAAAAAAGGAG AA GAAAAACAGGAAAAGGGGGGGGAGGAGAAAAAGGGGGGAA C CAAAAAAAAGAAACCAAGGGGAAAAAAAAGGCCCCAAGGGG A A C C A A G G A A G GCC G G A A G G G G G G A A G GAA T T G G G G G G G G A A A A A A A A G G A A A A A A G G A A A A A A A A A A A A A A G G G G G G G G T T C C C C A A G GCCCCCCCC G GCC C G G G G G GAACC G GAAAAAA G G G GAA G G G G G GAAAACCAAGGAAAAGGAAGGGGAAGGGGGGAAGGGG

G G G GAA $A \operatorname{GGGA} A G G G G G G A A A A G G A A A A A A G G G G C C G G G G G G$ G G G G C C G G G G G G A A A A A A A A G G G G G G A G G G C C T T C C G G A A G G A A G GCAGACCCCAGGGGGGAGGGGCCAACCAAGGAAAGAGGG G GAAGGCCGGGGAAAAAAAAAAAAGGGGAAAAGGAAGAAAAA T T G GAAAAGGAAGGAAAAGGCCAAAAGGACAGGAGGGGACAA G G G A A A A GCCCAGAAAAAAAAACCGGACGAAAGGCCAACCBG G G G A A G G G C C G A A G G A G G G G G G A A C C G G G G G G G A G G A G C A A A $G G A G G A G A C A G A C C G G A G A A G G G G G G G A A A C G A A G G G G A G A A$ G GACAGGGAAGAGAGGGAAGAGAGGGGGGGGAGGGGGGGGGG A GAATTAAGGAACCGGAAGGCCGGGGACAGGAGGAAAGAGAG GAGAAGACGGGAAAGGCCGGAAAGAAAAGACCAAAGAACCAA A A G G A G A G G G A A G G G G G G G G C C G G C A G G A A G G G G G G A A A A A $G$ CA G G A A C A C A A A C C A GAGAGGGGGCCAAA GAGAGGAGGAGAG GA $\operatorname{G} A A A \operatorname{A} A G G G A G G G G A A A G G G A G G G G G A G G G A A G G A A G G A A$ G G G GAAAGAGAAGGGGAGAACAAGCGGACAAAGGGAAGAAAA GGCACGAGAAATCCGAGAGGAAAAAAAGGGAGGGGAGAAAAA G G G A A A G G G GACAAAAAAGGGGAAAGAACCAAA AAAAAGGGGG GAGGAAGGGGAGGGCAAAGAAAAGGGAAGGGAAAGGAGAGAA $G G A A G G A A A A G G G G A A T T A C A G G C G A A A A A G G G G A A A A G G A A$ A G G A C C A A A A A GAGAGAAAAAAGAAACCAAGGGAAGCABAAA G G G G GAAGGAGGGGAGGAAAGAAAAGGGAAAGGGGAGAAAAA A G G G G GAGGAAAAAAGCCGAAGGGGATAAAGGAAAAAAGGAC $A G G G G A C G C A A G G A G A A G G G A G G G G G C A A G G G C G G A G G G G G G$
 G G A A A G G G A A G G G G A A A A A A A A A G G G G A A G A A G A GA G G A G G G G G G G G G G A C A G G G A A G A A G A G G G G G C C C C G G G G A G G G G A G G $G A$ GAGAGGCCGACCGGAAAACCAGGGCCGGGGAAGGGGAGAAAG GAGGGGAAAAGGACACACGAGAGAAAAAACGAAGGGAACCAG GACGAAAGGAGAGGAAAAGGCCAAAAGGGGCAAAAAGGAGAA G G G GAACCAAAAGGGGAGGGGGCCGGCCGGAAGGAAACAAAA

G G G A A G G G G G G A G A C G G G G A A G G G GA $\mathcal{A} A G A G A G A G G A G A G G$ A GAGGAGGAAGGGAGAAGATAAAAAGGGAGAGAAAAAAAGEG
 A G A A C C G G G G A A A G A A GAGAGGGAGGGGGACCGGAACAAGAA GAAGGAGGAAGGAACCGGACAGGAGGCAAAAAGAGAAGAAAA GAGGGGAAAGGAGGGGAAACAAAAGGACAAAAAGGGAAGGAG CACCAAAAAAAAGGAGGGGGAAAAAAAGAAAGAAGGGGTAGAG G G A A A A G G CAA $A$ A $A \operatorname{GAGGAGGAGAAAAGGAAAACCGGCAAAGB}$ G GAAAACCAAAAAAGAGAGAGGAAAGCCAGGGAGAGGAAAAA AAGGAAAAGGAAAAAAGGCCAAGGGGGGGAGAGAACAAAGAC
 AAGGGAAAAATTAAGGAGAAAGAAGGGGGGACGGAGGGACAG A A A A A GA $\operatorname{A} G A G G A G G G A G G A G A G A A G G A A A G G G A A A C C A G A G$ G GAGGAAGAGGGGAGAAGAAAGGAAAAAGGAAGGAAAACAAA $A C G G A A A C A A G G A G A G A A A G C C A A A A G A A A G A G G G G C C G G G G$ A G G A A A A A G G A A A A A A G GAAAAGGGGAAAAAACCAGTTAA G G A G G GAGAAAGGGAACAAACAAAGGGGGAAAGGAGAAAGAAGG ACAGCCAAAGGAAGGAAGGAAGAGAAAAGGAGATAAAAAAGG G G G G G G A A A A A A A C G G A A A GAA A A GAGGGGAGAAAAAAAA A $A$ A AAAAGGAAAAGGAACAAGGAGGGACACCAGGGAACAAAGGAA G GAA ACGGGGAAAAGGAAGGGGGGAGGAAATAGGCCGGAAAAA A A A G A A G G G G A A G G A A A G C C A C G A A TA G G A A G A A G G G G A A A A A AAAAAGGGACCGGGAAAGGAAAAGGACGGGGAAAAGACAAC GAGAGAAAAGAAGGCAGGGGAAAGGAAAGGAAAAAAGGAGAA A G A G A A A C G G G GA $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G G G A A A A A G G A G C C A A G A$
 A A A G G A A GCAAAGGGAGGACAAAGGGACGGAGGACAAGAGAA $G G A G G G G G G G A A A A G G A G A G C G A G C C A A G G A G A A A G A G G G A A$

G GAGAAAGAGAGAGGAGAAGAAGGGGAGCAAGGGGAAAGAAA GGCCGAGAAGCAGGAAGAGAAAGGAAAGAAGAGGAGAAAAAA AAAAGGAAAAACATCCGGAGGGCAGAGAGAAAAAAAAAAAAA GACAGGAGCAACCAGAAGGAAAGGGAGGGGGAGGGAAAGGGG CAGAAGAAAACAGACCAGGAGGCCCCAAAGGGAAAGGGAAGA CA GAAAAAAACCAAAAGAAAGAAAGAGGGGGGAAACGBAGAA C C GAAAAAAAAGGGGGGCCGGAAAAAAGGGACAAGGAGGAA $A G A A G G G G A G G G G A G A C A G G G G A A A G G A G G G G A G G G A A G A A C$ G G G G G A G A G A G G A G G A A A G G A G A G G G A G G G G G A G G G G A GA C A ATCCAGGAGACAAAAGAGAAAACCGACAGGGGGGGGGACAAA
 AAAACCGGAAAAGGAAGGAAACCCAAACAAGGGGAAAA G GAAA A G G G A A G G G G G G G G A A G G A A A A G G A A A A A G C A GACAA G G A G A G G G G A A C C G G A A A A G G A A A A A GAGACGAGAACAGA GA GACA A A A A A A A A GAGGAAAAAAACCGGAGAAGAGGAGCCAACACAAA AAAGAGAAAACCGACCAAAGAGACGACCAGAGCAGGAGAGGG GAGGGGCCACAAGGCCAAGGAAGGGAAGGGGGGGAAGAAGAG
 $G G G G A A G G A A G G G G G G A A A A G G A A G G C C A A G G A A A A A A G G G G$ G G G GAGAACACAGGAAAAGGGGAAGGGAGGGAAAAGAGAACA GAGAAAAAAAGATTGGAGCACCACGAAGGAGAGAAAAAGGAA A A G GAGGAGAAGGGGGCCAAGAGAAGAAGACCCCGGGGCAGG G GCC G G A A CAA $A \operatorname{GGGGGGGAAAAAGGGAAGAAAAACCGGAACA}$ G G A G G A A A A $\mathcal{A} G G G A G A G G G G G G G G G G C C A A A G C C G A A A A A A A$ GAAGGGCCGGAGACGGGACAGAAAAGGGAAAATTAACAACAA AACCAAAAAGGGAAAAAAATCCCCGAGGAAGGGACCTTGGGG1 A GAAGGAAAAGAAAAGGACCGAGGAAAAGGAAAAAAAA GAAA G G G A A A G G G G A A G G G G A A G G C C G G G G A A A C G A A GA GAAACAC
 C CAGCCGGGAAGGAGACCAAGGGGGGGCGGCAGAAGGGGGGG A A A A G G A A G G G A A C G A A A A CAGGGGACCAGCACAACAACC GA AGCCGGAAAAAAGGAAAAACGGGGAAAACCAAAAAAAAAAAG GAGGAGAAAAGGGGCCAGGAAAGAGAGGGGAACCAAAAGGCC GAGGGGGGTTAGAGGAAGGACCGGAGAGAGAAGGAAAAAAAA G G G GCCGGGAGGCAAGAGAGAAAAAAAAAAGAAAAACACAAA $G G G G A A G G G G G G A A G G G G G A A A G A A A A A G G G G C A A A A A A G C C$ AAGGCCGGGGAACCCAGGGAGAAAAGGGAGAAAGGAAAGGAG GAGAGAGGGGCCAAAAAGAACAAGGGGAGAAAGGAGGAAAGA A G G A A A G A G G A A C A GAGAAGCAAAGGCCCAGAGGGGAGACAA CAAAAAAAAGGACCACAAAAAAAAGGGGGGTAAGBACCAGAG GAAAACGGGAAGAAGGAGAGAAGAGGGAAGAGAGGAGAAAAG A GAGGAGAAGAGAGATGAGAACGGAAAGGGGGAAAAGGAAGA GAGGGGAAGGAAAAACGGGAGGGGGGACGAAAGGAGAAATAA A G GAA A A G A A A A G A GAAAAAGGGGAACAAGACAA GGC GAGAAA

 AAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGBAAAGGAG AAAAGGAAGGGACAAGGAAAAAAAACGGAAAAGGGGCAAAAAA
 $A G C C A A A A A A G G G G A A G A A T G G G G G A G G G G A A G G G A G A G A B G$ A A GAA A A G GAGGGGAACCGGAAAAGAGGCCGGAGGGGAGAAC $A C A T A G A A A G G G A A A A T T A A G G A G C A G G G G A A G G A C G G G G G G$ G GCCGGAGAAAGCAAACCGGAAGAGAAACCGGAGGGACAGAG AAGAAACCAAGGGGAAGGCCAACCAGCCAGAGAAAGGAAAGG A GAA A A A A G G G GAAAAAGGAGAAAGAGGGGCAGAAGAAAAGG G GAGAAAAGGGGCCAAAAAAGGAAGGCCGGAAAGAAAAAAGG A A G G G A A A G G A A A G GAA A G G GAAA A G GAACCAAAAAGAAAACC A A C A C C G G GAGGGGGGAAAAGGAACCAAGGAAGAAACGAAAA AACCAAAAAAGAGGAACCCCAGAGAAAGAAAAAAAAAGEGAA

CCCAGGGGGGGGGGGGAAAAGGAAGAAGAAAGGGAAAAAGAG G G G A G GA G C G G A A A G G A A A A G G C A G GAGAGGACC GA GA GAA $\mathcal{A}$
 G G G GAAAGAAAGCCAGGAGACAGGAACCAGAAAGAGAACCBG G GAAAAGGAAAACCAGACGGAACCGGGAGGGGAAGGCCAAAA A A A A A C A G A A G G G G G G G G G G A G A A A A A A G G A A G G G G A A C C A A A A G G G A A A GAA $A \operatorname{GGGGGAAAACAGGAGGAAGAGAGAAAAGGGG}$ A A A A A A A ACCAAAAGGAAAAAAGGAAAAAAAAAAGGAAAAAA A A A A G G G G A A A A A A G G A A G GCCCC CAACCAAAAGAAAGGGGGG AAGGGGGGAAAACCAAGGCCAGAGAAGGAAGGGGAGCCGGGG AGGACCCAAAGGAAGAGACAAAAAGGAACCCCGGAAGAAAAA G G A A C C G G A A A A G G G G G G C C G G A A G GAACC G GAGGGGGAAAA A G G G G G G G G G G G G G C A G A C A A A A G A A G G G G GAA A G G G G G G A A G G G A A GCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGAG ACGGGGAAGGAACCGGAAAAAACCCCGAGGGAGGCCCAAAAA AAAAGGCAAAGAACGGAAAAGGGGGGAAGGGGAAAAAC GAAA
 A G G A G G A G G G G A A A A A G G G G G G G G G G A A G G A A G G A A A A G G A A
 $A G G G G G G G G G G G A A A G G G A G G G G G G A A G A A G A A A A A G G G G G A$ G G G G G G G G G GAAAAGAAAACGGAAAGAAGGACGGGGAACCGG G GCCAGGGAAGGGGCGAGGGGGAAAGAACCGGGAAGGGGGAG AC G G G A A A A A A A G G G G A G G A G G A A A GAA GAGAAA G G G GAAAA G G G G A A G A GACCAACCAACCCAACAAAGAAAAGGAAAGATAG $G G A G G G G G A A G G G A A A A A A A A A G G G A G G T T A A G G A A G G G G G G$ G G G G G G A A G G A A G G C C A A GAGGAAAAGGGGGGGGAACC G GAA A A G G G G G GCCGGGGAAGGAAGGAAGGGGCCAAAAGGAAGAAA A A A A A ACCCCCCCCAAAACCCCGGGGGGAAAAAAAAGGAGAA A A A G G GCCAGGGAACCGGAGGGAAGGGGGGAGGGGGCCAAGA C C GAAAGGAACCCCAGAAAAAAAAGAGCAAACAAGAAAAAAG A A A G G G A A G G A A G G C C G G C A A A G G G G G A G A A A C A A G G
GCCGGAAGGAAGGAACCGAGGGGCCAAAAGGGGGGCCAAGG AACCGGCCGGAAAACCAAGGAAGGAAGGGGGGAAAACAGGGG
 G G A G A G G A G G G GCCGGAAGGGAGAGGAAGGGAAAAGCAAA GA G G G G A G G G G G A G GACAAGGGAAGAACAAAAAAGGGGCCAGAC ACGGAACCGGGGTTGGAAGGAAGGGAAGAAGGGGAAGAAAGA G GAGGAAAGAGGAAGGGGGAAGGGGGAAAAGGAGCCAACAAA $A G A A G A G A G G G G G G A G A G G G G G G G G G G G G G G A G G G G A G A G G B$ G G G G G G GAGGAGGGAAGGAAAAGGGGGGAAGGAA GAAAAAAA G G A A A A G G G G G G A A A A A A G G G G C C G G G G C C G G C C G G G G G G G G A A A G A G G A CAA A G G GAAAGGAGAGCAGAACCCAAA GA GAGGG G GAA A G GAAAACAGGGGGGGAACCCCGAGGGGAGGGGGAAAG

 $A G C C A A A A A G A A G G A A A G A G G A G A A A A A G G G A A A G G G G A G G G$ GACCGGGGGGAAGAGAAGCAGAAAACGAGGAGAGCAAGGGGG G G G GAA A G G G GAAGAACCGGAAAGAAGGAAAAAACCAAAGAA G G GA $\operatorname{A} G C C G A G A G A A G G G G A G G G G G G G A G G A G G G G A G A A C A G$
 ACGAAAAAGGGGGGCAAAAACCGGAAAAGAAGCAGGAGGGGG C CAGGAGGAACAAAGGAAAAGGAAGGGGAAGGGGGGGGAAAA A A G G A A C G G G G C G G G G A A A A G G G G A A A G G G A G C A A G G G A A G A A GAAAGAGAAGAAGGGAGAAGGAAAAAAGAAAAAGGAAGAAA A A G G A A A G A G G G A A C G G G G G G A T T G G A A G GAAAA $A$ A C C C C G G
 A A G G G G A A G GCC $C$ G $\mathcal{A} A G G G G G G G G G A A C C A A A A G G C C A A C C G G$
 $A C G A A A G G A A G G G G G G A C A A C C G G G G C A G G G G G A C A G A A A A A$

A A G G G A G A A A A GAGAAGGGGGGGGGGACAACGAAGAACGGAG A G G A G G G G GAGGGAGGAACCAAAAGGCCAAAAGAAAA GAAAG G G GAG G C C G G G A G G A G G G A G C A A A G G G G C C G G A A G G A A A A A G AAAACCAAGGGGGGGGAGTTAAGGGGGGAAAGACAACCAGAA AAGACCAACCAAGGAAAAGGAACCAAGAGGGGGAAGGAAAAA GAGGGGAGAGAAAAGGAAAAGAGAAGAAAACGAACCGAAAGG A A A A A A G G A A G GAA $A \operatorname{GA} A G G A A C A G G G G G A A G G G G C C G A A A C A$ G GAAAGGGAACCAAAGAGGAAGGAAGGGAAGAGACCTTAAGA A GACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAGAAGG AACCGGGGGGAAAGAAGGGCGAGAAAGGGAGAGACAAGGGGA G GCCCAAGAACAGAGGAGGGAAGGAAGGCCGGAGGGCAGGGG A GAGGGCAAAGAGGAAAGGAAAGGGGAAGAGGAGGGGAAAAG $G G A G A A A G A G A G G A G A A G C C G A A G A A G G A A G G G A A C G A C A A G$ CA $\operatorname{ClG} G A A A A C A A G A A G G G A G A G G G A A G A A A G G G A A G A G A G A A$ A GAGAACCAGGGAGAGAGAGGGAGGGGAGGGAAGAGCCAAA G A G G GAC $C$ G G G A A G G G GAGACGGAAAAAAGGGGGGAAAAACCC G GAAGGAAGGCCAAGGAACCAAACAGAGGAGAAGAACACCAA C CAACCAGGGGGAAGACAGACAGGGGAACCAAAAAAGGAGAA G G G GAAGAAAAGACAGAGACGGGAAAGGGGACAAGGCCAGAA
 G GAGGGAAGGGACCGGAAAAGGCCAGGGAAAAAGAAAGGGGG G GAGAGGGGAAAGGAAGGAAGGAAAAGAAAGGGGGAAAAAAA G GAGAAAAGGCCGGAAGACCGAAGATAGGAGAGGGGAAGGTT $A A C C C A G A G G A C A G A G A A G G A A A A G G C A A G A C A A A C C A A A B G$ $G G A G A A G G G G G A G A G G C C G G A G G G A A A A G G G A G G A A G A G A A A$ AAA A A A G G G GAAAAAAAAAGGGAAGGCCGGCCA GGGGGGGGG A A G G G G G G A G G A T T A C A A G G G G G G G G G G GA G G G G G G G GAAA $A$ A A G G G GAGAGGGAAAAAAAGGGGAAGGGCAACAGGGAACAAA A GAAGGCAAACCAAAGAAGGGAGAAAAAGGAGCCAGGAAAGG $C \subset C A C C A A G G A A A A G G A A A G A C G G G G A G A G C C A A A G A G A G G A$ A A GAGAGGCCGGGGGGGGAGACGAACAGGGCCAAAGAGAGAA A GAGGAAGGAGAGAAGGGAGAGAACCGGGAAGGAAGAAGGGG GACAAGGGGAACGGGGGGGAGGGGAGGGCAAGAAGGGAAAGG

 $A C G G A A G G A A G G A A A A T T G G G G A A A G G G G G G A A G A A A G A G G G$ A A A CAA A A G G G GACGGAGGGGAAAGGGGCCAGAGCCAGAACAC C CAAAAGGGGGAGGAGAGGGGGAAGAGGAAGAGGGAAAAGGG A GAAAGAAAGAACATTCCGGGAAAGGCCGGACAAAAAAAAGG G G G G A A G G G G A G G G G G C C G G G G A G T A G G A A A A G GAAC CAA $A$ A G G G GAAAA A A A GAA $A \operatorname{A} G A A G A G G A G A G G G A A A G A G G A C C A A G G$ A A C C G A A C G G A G A A A C A GAGGGGGAGCCAAAA G G G G G G G G G G G G G G GCCGAGGGGAAAGAAGGACAACAGGAAGGAAGAGAGAGA GAAAAGCCGGGGGGCCAGAAGAAAGAGGAATTAAAAAAGGAA A A $\mathcal{A} G A A G G G G A G G G G G G G G G G A A G A G A C A G G G A A A A A A G G G G$
 GAGGGGAAAGAAAAGGGAAGGAGGGAAAAGCCAAAAGGGAAA G G G GAA $A \operatorname{GCCA} A G G A A A A G G C C A A A A G G G G A A A A G G A A G G G G$ $G G C C A A G G C C G G G G A A G G G G A A A A G G A A A A A A G G A A A A C C G G$ G G G G G G G G A A A A A A G G A A A A C C G G G G G G G G A A G G C C A A A A C C C CAA $A G G G G G A A A A C C G G G G G A A G G A A G G G G A A G G A A A A C A$ G GAAT TAA A T G G GAAGGCCGGAAGGGGAAAAAAGGAAGGAAAA AAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGAAAAAGG AAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGGAAGGGAAA G G G G G G A A G GAAAAGGGGAAAAAAGGAAAAAAAAAAGGACAA CCAAGGAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCGGAAAA A A G G G GCCAAGGAAGGGGCCAAAAGGAAAAGGAAGGAAAAGG $G G A A A A G G C C A A A A A A A A C C T T G G A A A A A A A A A A G G G G G G G G$ $G G G G G G G G G G G G T T A A G G G G G G G G A A C C G G G G G G G G A A A A G G$

A A G G G G G G G G G G A A A A A A G G G G T T A A A A A A $\mathcal{A} G A A G G G G G G G G$ A ATTCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAGG AAAAGGGGAAAAAAAAGGGGAACCAAAAAAAAAAAAGAAAGG G GAACCAAAAAAAAAAAAGGAAGGAACCAAGGGGAAGAAAAA $C \subset A A C C A G C C A A A G A G A A G A G A A A G A G G G A G G G G G A A G A A C A$ GAAACAAGAGAAGAGGGGCCGGCCGGGGGGAAAACAGGAAAG A GAGAAAGAAGGCCAAGGAAAAAAAAGAGGAAGGGGCCAGAA AAACGAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAAAAAAA G G G G A A G G A A G GAA $A \operatorname{GGGGCCAAAAAAGGAAGGAACCCAAAAA}$
 CAAAAA AAGGAAGACAAAGAAAGGAGAGGGGGAAGGGGAAGA G G G GACAGGGCAACGGAAGAGGCCACAACCAAAAGGAGGGAG A ACGAACGGAGGGGGGGAAACCGGAAAAAACCGGAAGGGGCC
 GAGGAGACGGGAGGAGAAGGGGAAAGAGCCAGGGCCGAAGGG A GAGAAAAGGCCCCGGGGGGAAGGGGGGGGAAGGCCGAAAAA

 AA $A G A A G G A A G G A C G G A A G A G G G G G G G G G G A G G G G G C C A G A A$ AAAAGGAACCGGACGAAGGAGAGGCCAAAAGAAAGGGGCCAA CACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAAA A A GAGAAAGGAAGGCAGAGGGGAACCGGCAGGGGGGCCACAA AAAAAGGGGGCAAAAGAAGCAAGGGGAGAGAAAAAAAGAGGG CAAAAAGAGGAAGGGGAAAGAGGGAAAAAAAAGGAAGGAAAC A A G G G A A A A G A A G GAAA A A A A GACAAACCAAACCAAGGGGGG C CAAAAAAGGGGGGAAAAAAGGCCGGGAGGGGAGAGAAAACA C CAA $A$ A $G G C C G G C C G A A A A A A A C C A A C A G G C A C A G G G G G G G G$ A A A G G A T T G G A G CACACAACGGGAGGAACCGGGGGGACAA GA C CAAAAGGGGGAAAAAAGAGGGAACCGGAACCGACAAAAAGG G G A A A A A G A G G A G A A A A A A A GACCAAAGAAACAACACC G GAC A G A A C C G G G A A G A G A A G GAAGGAAAAGGGGAAGAA GA
AAAGAAGAAGGAAGGAAGGGGAAGGCGAAAGAGAGAAGGGG A GAAAAGGACAAGAAACAGAAGGGGGGGGGGGGGAAAAAAAA C C G G A G G G A A A A G G G G A A C C A G A G A G GA G G G G G G A A A A A A G G A ACC G GCCGGAGGGGGAAGGAAAAGAAAGACCAGACGAGGGG A A C C G GA G G A A G G A G A A A G GAACCAGTAGGGAGGAAGGAA GA AA $A \operatorname{GGAAA} A A G G G A A A G G A A A G G G A G A A A A G A G A G G A A A G A A$ CAGGGGGGGAAAAAAAAGAAAAGGAAAGAGGGAGACAGAAGG GAGGAAAAAACCACGAGAAAAGAGAAAAAAAAAACCCCAGAA GAAAAGGGAGGGAACCGAAGAAAAAAAAAAAGAAGGCCGGCC AAGGGGGGAAAAGGAAAAAAAAAACCAAGGGGGGAAAAAAAA G GACCGAAAAGGAAGGAGGGGGGGGAAGGACCGAGGAAGAGB AAGAGAAGGGAAGGAAAAACAGCCGGCCAACCAAGGAAGAAA G GCCAAAAGGGGAAGGAAGGGGGGGGCCGAAAGAAGGAGAAG A GACAAAGAAAAAAGGCCGACCGGAAGGAAAAGGAAAGAGGA A A G G G G A A A A A A $\mathcal{A} G G G G G G G A G A G A A G A G G A G G A B A A A A G G G$
 AAAGCCAAGAGGAAAAGGGGGGAAGGGGCAGGATACAGAAAAA A GCCCAAAAACCGGGGGGAAGGGGCCGAGAGGGGACGGAAGG A A A A G GAAAAAAAAAAAAGGCCGGGAAGAAAGACBAAAAAAG A G A A C C TA $A \operatorname{GA} A \mathrm{~A} G \mathrm{G} G A A A A G C G A A G C A T T A G G G A G C A G A G G$
 ACGGGGCCGGAGAGAAAAAGAGCAAAAGGGAAAGAGGAAAGG A GAAGGAGGGAACAGGCCAGGGAAACACGGAAGGAAAAAACAA A G G GACGGAAGGGGAACCGAACAGGGAAGAGAAAGACAAAGB A A G GCAG G A G CAG G G G A A T TAAAAAAAGGCACCAAGAGG G GAA GAGGGACCGAAAAAGGCCGGAGGGAAGGAAGAGACCGGAAAC A A C C A A A A A A A A A A C C G G A A A A A A A A G G G G G A A G T A C G G G A G $A A G G G G A A G G A A G A G A A G G G G G G A G G G G G A G A A A A G G G A A G A$
$C \subset A A G G A A A A A G G G G A A C G G G A G A A A A A A A A A C C A A A A A A G G$ G G G G A A A C A A A A G G A G A A G A G A G G A A G A A A A A T T A G C C G G G G ACAAGGAAAAAAGGGAATGAAGCAGAGGAACCGGGGAAAGAA GAAGGACCAAAAAGAAGGCCACGGGGAAAGAAAGGGGGGGAA AA G GAAAAAAAAAGAAGGACGAGAAAGAAGAGCAAA GAGAAG $A G A A A A G G C C G G G G G G G G A A G G G A G A G A G A A C A G A A G G G G G G$ A A G G G G A G G A G G G A G A G G G G G G A A A A G A G A A G A G G G A G G A G A A GACATAGAGAGGAACGAGGAGAAAGGAGAAAGGGGCCABAA A G A G A A A A G G G G A A A A G G A GAGGAGAGGCAGGCCAAGGCCAC $C C G G A A A A A A C A A G C C G A G G C A G G C C G G G A T A G G A A A A G G C C$ G G G GAGGGAAAGAAAGGGAGGACCAACCGGCCGGGGGGGGAA A G G G A A A A G A A GAA $A \operatorname{AGGAGGAGCAGGAGGAGGAAA} G G G G G G G$ $A \subset A A G G A A G G G G A A G G C C C C G G G A G G G A G G A A G A A A G G A A A G$ GAAGAGAAAAAGCAACGGGGGGGGCCGGAAGGAGGAAGAACAC G G G G G G G G G GAAAACCAGCAGGAAAGAGAGGGGACCGAAAAG GAAGGAGAGGAAAAAGGGCCGGCCGGAAGGGGAAAAGGCCGG G G GA GACCAGAGAAAAAGAAGAGGAAAAAGGGAAGACCGGGG G G A A A A A G G GACAGGGGGAAAAGGGGCCAAAACCGGGAAAAA AAAACCCCGGAAGGAGAACCGGAACCAACCAAGGGGGGAGAA G G A A C C G A G A A A G G A A G G G G A G C C A G A C G G G G G G C C G G A A G G G GAGGGAAGGAAGGGAACTTGGGACGCAAAAGAGGGAAGAAG C GAGGGGGCCCCACAAGGAAAGGGGGCCAGAAGGGGGGAAGG G G A A G G A A A G G G G G G G A A A A G G G A G G A A C C G G A A A A G G A A G G G GAA A A A GAGAGGAGAACAGAGAAAAAAAGAAAAAAGGAGAA A A A A G G C C A A G G G G A A G G G G G G A GAGGGGAGACCAAAA G G A G A G GA $\operatorname{A} G A C C C A G A G C A G G A A A A A G C G G G A A A G G A G G A G A G G G$ A GAAAA A A A G GAGACAGGCCACGGCCCCGGGGGGGGGGAAAG G G G A A A G G G G A C G G C G G A G GCCCCAAGAAACAACAACAAGAA GAAAAAGGGGAGAAAAGGGGAACCGGAAGGAGGAAAGAAAAA GGGACCAGAAAAGAGAGGGGCAGAAGGAAAGGCAAAAGAGAG G G A G G G A A C C A A G G C C G G G G G A A A A A A A A G A A G G A G A A G G A G G G GAGGGGAAGGAGCCAAGAAGAAGGAAAAAAAAGGAAGGGA GAA A A G G G GAGGGAGGCAGAAAGGCCGGGAGGAAGGAGGGGG G G A G G G A A G G C C G A G G A G G G G G G A G G G G A A G G G G G G A A C C $\mathcal{A} A$


 A G G G GA A A GAAGAAGGAGAGCCCCACAAGGAAGGAAGAAAGA A A G G A A G G G G A A A A A A A A A A A G A G G G GA GAGGCAAC G G G G A A
 G G G G G G G A A A C CA $A$ A A $A G G G G A T A A G G A A G G A A A A A A G A C C A G$ A A A C A GAGGGAGGGAAAACCAAGGAGGGCCCCAGAAAAAAGA G GAAGAAGAGAACCAAGAAGCCAAGGAAGAAAAAAAAAGGAA A A GACCAAAAGGAGGGAAGAACGACAGACCAAGGGGAAAABA GAGGAAGGAAAGAGAAAAGGCAGGGGAGAGAGAGAGAGAAAC C G G A A G A G A A G G G G G G G A A A G G A A A A C CAA $A$ G A G GACA G G G A A A A A A A A A A A A A A A A A A A A A G G G G G G CA G G A A GGGGAAAAAA A GAAAGAAGGGAAGAGGACCAAAAGAAAAACCGGAAGGAAAG AGCCAAAAGGGGCCAAGAGGCCGGAAGGAAAAAAAGAAAAAA G GAGGGCAGGGGAAAAAAGGAAAAGGGAAAGGAAAAAGGGGG G GAA A A A GAACCGGCCAGGAGGAGAGGAAAAGCGAAAGAAAA G G G GAAAAAAGGAAAAGGGGAAAGTAAAAGGGAGGGCCACAA A G A A A A G G A G C A G G A A G G A A G G G G G G A A G GCC G G G G A A G A A A G GAAAAAAAAAGGGAAAGGGAAGACCGGAAGGAGGGAAAGAG G G G A G G A G G G G GAACAAAGGGGGGAACAAAGAAGGAAACCGG G G G G A G G A G G G G G G G A A A G G G A A A G G A G G G C C G G C C C G G A A G CAGAGGAAGGCAAGGAAAGGAAGGAACCAAAACAGAAGAGAG A TAGAGGAAAAAGGAAGGGGGGCCAAGGGAAGGAGAACAAGG $C C G G A G A G A A G A A A A A G G A A C C C A G A A G A A G A A G A G A C A G C C$

A A TAGGAAAAAACAAGGAAAGGGAGAAGAGGGAAAACCABAA AACCCCAGCAAGAAAACCAACCGGAGAGAGGAAGCCCAAAGAA $G G A A G G G A G G C C T A A G G G G G G G A G G G A A G G A A A A G G A A A A G B$ GAAGCAGGAGAAAGGGAGCCAAAGGGCAAGGAACGGAAAGGG AAAAAGGGAAAACGCACCGGAAGGCCAAAACCAAGGGGGGGG G G G GA $\operatorname{l}$ AAAACCGGCAAAGGGGGGGGAAAAAAAAAAGAAAAA G G G GAACCAAGAGAAGACATAGAACACCAAGAGGTTAAAAGA GAGAAAGAAAAAAAGGGGAGGGAAAAGGGGCAGGGAAAAGAA AAAAAGGGGAAACCGGCCAAAAAAGGGCAAAGGGGBAAAAGG AAAAGGGGGGAAAGTTGAGGAAAAAAAAGGCCCCACGACAAG A GAAGGAGAACGCCGAAGGGTTCCCCAAGAAGACCCAAAGAA G GACGGACAGAGGGGGGACCAGCAGGAACCGGAAAAAGAAAC A G TAAA A $A \operatorname{GGGA} A G G G G A A G G G A G G A A A A C A G G G G C A G A A A A A$ $G G A A A G A A G G A A A G A G G G G A G G G A A G G G G A G G A A G G C C G G G A$ AAGGAAAAGCGGGAAAGGACGGGGTTGGCCGGAGCCGGCAGA AAAAACAAAAAAAAGGGGAAAAGGGGAGGAAAAAGAGGGGAA T TAA A A A A A G G A A GAA $A \operatorname{AGCGGGAAGGGAGGGAAGAAAAAGAA}$
 A GAGAAGGGGAGAAAAACAACGAGGGAAAGGAAAGAAAAAGG A G T T G G A A G G A A A C C G G G C C C A GA $\mathcal{A} G G G G G G G A G G G A A A G G A$ G G G G G G A G G G G A G A A G G G G G G G G GAAAAA A A G G G GA GAAAAA
 A G GAGGCAGAGGAAGGAACCAAGGAGGAACAAACGAAAAAAA A GAAATGGTTGAAAGAAAAGAAAAGGGACGCCGAGGAATTAA A A A A A A A $\mathcal{A} G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G A G A A$ A A A A C CAA A G G GAAAACCAAGGGGGGGGAAAAAAA GGGGGCC GACCAAGACAAGACCAAGAACCGGGGAAAAAGAACCAGAAGG AAAAGGGCGAGGAAGAAGAGAAAAGGGGGGGGAAGGAAGAAA CAGGAGAGAAACGAGGAAAGAACCAGCACAGGAAAAGCAGAA G G G GCCAGAGGGAGGGAAAAGGAAGGGGAAAGAAAAGGAAGAG A A G G G GCCGAGGAAAAGGCCCCACCCAAAAAAAAGGG
GCAGAAGGGACAAGGGGCCGGAAGGAACCAACCCCCAGCAG AAGGAAGAGGAGAAGACCAGGGGGCAAACAGAAGAAGAAAAG AAAAAAAAAAAGAAGGAAAAGGGAGGGGGGAAAAGACAAAAA
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 GAAGGAAGCCAAAGAGGGGAAAAGCCGGAAAAGGAACCCCGG G G G G A A A A A CAGC G G GAGAAAAAAAAAAACCAA GGGGGGCCGG G G GA G A A G A A G G A A A A A A A A GAA A A A A GAAA A G G G G G G A G C A AAAAAAGGCCACGGGGGGGGGGAAGGAAAGAAAAGAGAAAGA AA $A \operatorname{GGG} \operatorname{G} A \mathrm{~A} A A A A C A A G A G G G G A A G G G G A A G G G G A A G A A A G A$ ACAGAGGGCCTTGGGGCCCCGAAGGCGAGGGGAAAGAAAAGG $G G C C G A C C G G A A G A G G T T G A A G A A G G A A A A C C C G A A G A A A A G$ $A G G G A G G A A C A G G G G G G G A A G A G G G G G G A A G G A A G G G G A A A G$ AGGGAAAACCGAGGAGAAAGGAGGGGGGGAGAAAAGAAACGG G GACTTCGGGAGAGAGAAGGAGAAAGAGAAGGAAGGAACAAA $A G A C G A A A G A G G A A A A C G A A G G G G G G A A G G A G G A A G G G A A G G$ AAGGAAAAGGAGAGAAAGAAAGCAGGAGGCGGGGAAAAAAGA G GAAGGCCGGGGAAGGAAAAAAGGAAAAAAGGAAGGGGAAAA
 GGAAAAGGAGCCAAGGAAAAGACCAACCAAAAAAAAGGCATT A GCATTGGCCAACCGGGGGGGAGAGGAAAGGAGAAGAACAAA GAGGAAGGGGAAGGAAAAGGGGGGGGAGCAGGAAAAAGACAA G GAAAACCAGAAAAAGAGGGAAGGGAAAAGAGAGGAAAAAAA G GAGAAGACCGGGAGATTGGGGAAAAGGGGGGGGAAGGAGAA CAAGGGAGAGGGGGCCGAAGGGGGAGAAAAAAAAAGCCCGGG

AACAGAGAGGGGGGGGGGCCGGAAGGGGAACCCCCCGGAAAA AA A GAAAAAAAAGGGGAAGGAAGGAAAAAAAAAAAAAAAGAA AA G G T TAAAAGAAAAAAAAAGGAAAAAAGGAAAAAAAAAAAA A A A A A A A A A A A A A A A A A A G GAA AGGGGGAAGGAATTAAGGGG G G G G G GAAAAGGAAAAAAAAGGAAAAAACCCCGACCAGAAAA G GAAGGGAAAGGAGAGCAAGCCAGCCGAGAAAAAAAAAAAGG G GAGAAACGAAGCCCCAGAAAGAAAAAACCCAAACCGGGGGG AAGAAAGGGAACGGGGGGGGGGAAAGGAAAAGCGAAAACAAA A A A A G GAAAACAAAGGGGGAACGGAAGGAACCGAAAGAGGCC AAGGAAAAGAGGAAACAAGGAAAGGAAAAAAAGAGGAAGGGG G GAAAAGGAACCGGGGAAGGGGAAAAAAAAAAAAAAGAAAGA A G G A A GAAAGCAGGGGCAGAAAAATTAAAAAAAGGAGGAGGC A GAG A G A A C C G A C A G G GAGAGGAATTAAAAGGGGGGGACA GA GGCCAGGGAAAGGGAAAAGGAAGGGGGGCAGGAAAAACAGGG ACTAAAGAAAGAGAAGAAGGAAAAAAGGAAGGGAAAAAAACC CAAGAAGAACAGGGAAGGCCAAGGGGAAAAGGAAGGGGAAGA G G GAGAAAAAACGAGGAAAGAGAAGGGGCCCCAGAAGGACAG TAAAAAAAGGAAGGAGAAACGGGAAGAGCCAGAGCAAAAGAG G G G A A G G A GAAGGCAAAGGGGAGCAAACCAACACG GAACCTT G G G G G A G G A A A A A GAAA $A \operatorname{AGGAATTAAAAGGGGAGAGAAAGGG}$ AAAAAGGAGGAACAGGAGAAGAAGACGGGGGGAAAGGAGGGA GAAGGGGGAAGGAAAAGAACAGCCAAGGAGGGGGGGAATTGA C C A G A A A A C C G G GA G G G GAAGGGGAAAGCCAAAAAAGAAA GA A A A A G A G A T T G G A G G G G A A G C C G G A A G G A A A A G G G GAA G G A A
 G GAA A GAGACGGAAGGGAAAAGAGGGAAGGGAAAGGGGAAAA C CAA $A \operatorname{GGA} A A A G G A G A A G C A A G A A C C G G A A G A G A A A A A A A A A$ G G G G A A G A A A A A A A A C G G CAGAGGAAAAGGGGAAAA GA G GAAA A GAGAACCAGAAGGAAAAAAACAGGGGGCCAAGGGGGGCAAA A G G GAGGAAGGGGGAGAAGGAAGAAAGGAGAAGGGAGGCCAA $A C G G A G G G G G A G A G G G A A A A A A G G G A A G G G G G A A G G G G A G B G$ G G G G A A G G A G G G G G G G G A A A G G G G G G G G C C G G A G G G A G A A A A
 A G G G A A G G A G C C A A A G GAGGAGGGGAAGAAAGAAAAAAAACC C C A G A GAC G GAA $A \operatorname{GGGGAAAAAAGGCCGGAAAAAAGACGGGGA}$ G G G G C C G A G A C C A A G G G G G G C C A A C C G A G GAA A G A G G G G G A G A GAGGGCCGGAAGGGGGGAGAGAAAGGACCGACAAGGGGGGG GGCCAGAAGGAGAAAAAAAAGGAGAACCGAGGAGAGAAAAAC C GAGGGCCAAAAAAGAAAAAAGGGAAAAAAAAAAGGGGAACC TACAAAACCCAGGGGGCCGGCAAGCCGGGAAAGGGGAAGGAA AAAAGAGGAACCAGGAAGGAGGGAAAAGGAAACCCCGAAAAG G GCCAAACAAAGACGGAAGGGGAAGGGGGAAAACGBAAAAAA $A C G G G G G G A G A A C A C A A A A C A G A G A A A G A A A G G G G G G G A G A G$ AACCGAAAAAGGAAGAGGAAAAGAAGAAGGAAGAGGABCCGG
 G G A A G G G G G A G G G A A C G G T T G G A A A A G G A G G G A A A A G G A A G G G G A A A G G G G G G GAAACAAG GAA A $A \operatorname{A} A A A A A G G A A A A G G G G G G G G$ AACCAAGGGAGGGGGGGGAAAGAAGGAAGAAAAGAGCAGACA AACCGGAAAAGGAAAAAGAAAGCCCCAGGGGGGGAGGGAAAA A A A A A G G G A A G G G A G G GAGGAAGGCCAGAGGGAA GACAAGAA CAAGGGGCCCGGAGGAAAAAAACCAGAGGGAGAGGGGAAGGG
 A A A G C C A G G G G G G A G G A A G G A A G G G A A G A GAA $A$ G G G C C G G A A GAAACAAGAAAAAAGGAAAAAAGAGGAGGGCAAAAAGGACAG
 A A G G G GAAAAGGAGAGGGACGGGAGAGAGAACAAGGGGGGGA
 A A A A A G A A A A A A A C A G GAA G GAAAAAA G G G G GA GAA A A GA G G AGACGGAGCAAAAAGGAGAGAAGGGGAAGGCCAAGAGGAGCA

A G A A A A A A A GAGGAAGAAAAGAAGAAAAGGAGAAAAGAAAAA A A A A A A G G A G G G GACCACGGAGGAGAGGGAAGACACAGAGAA
 ACACGAGGACGGAAAGAGGGGGAGAACCGGAAGAGAAGCAAA
 C C G G C A A C A A G A A A G GAA $A \operatorname{AGGAGGGAAGGAAAAAGAGGAGAA}$
 CCGGGGAAAGGAGCACGAGAGGGGAGGAGGAAGACCGGACAG ACAGATAAAAAAAACCGGAAGAGAAAGGAAGGGGCCTTGGGG1 AGGGGAGGGGAGGGAAAGCCAAAGCCAGGAAAAATTAAAAAA G GAA $A \operatorname{GAAA} \operatorname{A} A \mathrm{~A} G A A A A A G A A A A G G A G A A A G A A G A A A C C C C C$ A A GACCGGAAGAAGAAGAAGAAAAAAAAGGAACCGGGGAABA A A A A A ACAAAGACAGAGGAAAGACACCAGGCGAGGGAAAAAA G GAAAAGGGGGAACGGAACAAAGGGAAGACAAAAGAGACAAA ACGAAAGGAGAAAAGGGGAAGGGGAAGACAAAAAGGAAGGGA AAGGAAAAAAGGCCAAAAGGGGGGCAAAAAGAAGAAAACCGG C GAAAACCAAAAGAGAGGCAGACAAGAGAGAGACAGCCBGAA A G G A G A G A C A A G GA GAAAGAAAGGAAAAGGGACCAAGGGGAG GAATAAAGCGACGGAGAAGACCGGAGGAAAGGGGGGGGAGAA A A C C A G A G C A C A A A G A A A G G A A G G A G G A G A GA G G A A G G A G A A A G G GAGAAGGAGGGGGACAGAAGGACAACAGAGATTGGCCAC AAAAAACCGAAGGAGGGGAAGATAAGGGAGAAGAAAGGGGAG AC GAGGAAAAAGAACCCAAGGAAACCGGGGGGGGGGAACCGG AAGGCCCAGGAAGGAGAAAAACAGAAAAAAAAGAGGGAAACC G G A A A G A A A A G GAA A G G G G G G G A A G G G G G G A G A A A A C C A A A A A A A A A G A A A A A A A A G G GAGGGGAAGGGGAAGGAAG GAAA GAA G GAAAA A $A \operatorname{A} \operatorname{A} A A A G G G G G G G G A A G G G G A C G G A G G A G G G G C A A A$ A GAGGAAAGAACGGGGGGAAGGAAAACCGAGGAAAGAGAAGB G GAACCAAAAAAAAAGGGCCCCGGAAAAGGAAGGAGAAAAAA G G G GAGGGCCAAGGAGCAAATTAGGAGGAAGAGGAAAAGGAA A A A A G A G G A A A GAGAAAACCAAAAAAGAGGCCAACGC
CAAAGAGAAGACAACAGAGAGAGGGGAAAAGAAGAAAAAAG A GAAAACCGGAAAAAAAGAGGGAAGGGAGGAACCGAAAGGGG G G A A G G A A A A A G G A G A T T G A A A A G G G GAGGGAA G GAAAA A A A CA $A$ A A A G G G G G A GATTCCCCAGAGAGGACCAAGGGAAGAACA A G G G G A A A CAAAACAAAAGGCAAAAAGAGGAGAAGGAAAA GA $A G C C A G G A T A A G G A G G G A G G A G G A A G A G G G G G A A G A G G G G G G$ AAAAGGAAGCAAAAAACAGGGAGGGGAAAGGAAGGAAGAAAA G G G G G G G G G G G G G G A C A A A A G G C C A A A A A GAGAGA GA GAA A A AAACAAGGGGAAGGCCAAAAGAAGCCGGAAAAGAAAGGGGAC A GTTAAAGGAAAAAAAAAAGGGGAAGGAAAACAGGAAAAACC A ACCAAAAAAAGAAAAGGAAGGAACCAAGGAAGGAAGGAGAA AGGACAAGGACCCAGGAGCCGATAGAAAGGGGCCAAAAGGAA A A A A A A A A G GAA $A \operatorname{GAAAAAAAGGGGGGCCGGGGGAAGGACAAC}$ A A A GAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{~A} A \mathrm{G} A \mathrm{~A} A A A A A G G A A A A G G G A C A A G A A A A G G$ GACCGGGAGAGAGAAAACGGGAGGAAGGAAAAAAGGGGAACC G G A C A A A A G G A G G G C A G G G G G A A G GAAA A A A A A G G A A G A G A G GAGAAGAGGACCGGGAAGAAAAAGAGAGCACAGGAGAAAAGA

 G G G G A G A A G G A A A A G G A A A A G G A A G G G GAAAAAAA G GAA G G G G G G G GAA A G G GCCC CAAAAAAAAAAAGGGGGGGGAAA GAGAGA G GCGGGGGGGGAAGGGAAACATAAAGGAGGGAGGAACGGGAAA G GCCAACCAAGAGAGGGAAAGACCGGAAAGGGTTCAGAGGGA CAGGAA GAAAAAGACAGGAAGGGGGGAAGGGACAGGGACAAA A A A A A G G A G G A G G G A A G G G GAAAAAGGGAAGGAAAACCAAGAG C C G GAGAAGGAGAGAAGGCCACAGGGGGGAGCAAAAGGAAAA A A A C G A G G A A A A G G G G G G A TCCCAA G GAACCAATAG GAGAGA G G G G G G A C A A G A GAGGGAAGGAAGGGGAACACAGAAGAGAGAG

A A G G A C G G G G G G G G G G G G A A G G A A C C G G GAGGAAGGGAAAAC GAAGGGGAAAGAGAACACAGGGAAGGCAAAGAGGGAGAGGAA A A G G GAAAGGGGAAGGAAAGAAACAGAAGGAAGAA GA GAAGA G A A A GAGAAA A A A G GAAAAGGGGGGAGCCGGAAAAGGGGGGGG
 G G G A G GCCAAAGGGAGGGAACCAC GAGGGGAAGGGGACCCBG G GCA G A G G A A A A G G A G A A A A A A G GAGCAAAGAACAGGGAGAC ACAAACGCCCAAGGAAAAGGAAGGAAAAAAGAAAGGAAAAAA $G G C C A A G G A A C A G G G G G A C C A C G G A G A A A C A G G G G G G G A A G A$ $C \subset G A C C G G G G A A G G C C G G G G A A A G A G G A A A A A A A T T C C A A G G$ A GAGGAGGACAAAAGGCCGGGGAGCCAAAGGGGGAGAAAAGG G G G G A G A A G A G G G G G G A A G G C C A GCC G A G G G G G G A A G G A A G G
 GA $A$ A $A$ A $\operatorname{G} A A A G G G G G G G A A A G G G A G A G G A G G A A A A A A G G G G G$ GAAACCGGGGGGAAGGAAGGAGACGAGAGGGGGAGAAGGGGG AACCAGCAGAAAACCGGGAAGGAAAGAGAACCGACCGAAGGG AAAGGGAAAAGAGGAAACGAGGGGGGGGCCAAGGAACAAAAC A A GAGACAACGAAAGGAGGGCCACGGCAGGGGGGCCAAGGGG $A G G A G G A G G G G A A G G A A A A A G G G G A A G A A G A A G G A A G G A G A G$ ACGAGGGGAAGGAAAAAAGGAAAAGGGGGGAGAAAAAAAAAG GAAAAGAAAGGGAAGGAAAAACAGAGCCAAGAAAGGAAGGAA G GAAAAACGGAAGGAGAGACAAAGGGAGGGGGAGAGAAGAAA A GAA A GAATTGGACCCCGCCAAAAGGGGGAAAGGGGGGGGAG A A G G A A C C A G G G G G A A A GAA $A \operatorname{AGAAAAGGGGAACAAGAGAGAA}$ AAAGGCAGAGAAAGAAGAAAAAGGGGCCAAAAAGGBAAACBG GAGGGAGGCCAAAGAAGAAGGAGGAGAAGGGGGGGAAGAGAA G G G GCAACGGGGGGGGAGAAAAGGGGCCACAAAAAAAGATAG AAAACCAAAGAGAAGGAAGAGGGAGGAAAGAACCAGAAAAAG G GCCAGGGGGAAAAAAGGAACCAAGGGGAGAAAGATGGTTAA $G G A G G G A A G G A A G G G G G G A G G G G A G G A G A A A A G G G G A A G G G A$ G C A G G G G A A C G G G G A A G G A G A G A G G G A G A A G G G A G G G G G G G G GGGAAAGGAAGGGGGAAAAGGGAAAAGAGCGAGGATAACCCA A A G GAAAGGGGAAAAAAACCGGGGAAACAAGGAGAGAGAAAG A GACAACCCCAAAAGGGGGGCCCCCCGAGGCGCAAAGAGCBA G GAGGACCGGAGGAGAAGAGAACCGGAACAGAAGGAGGCCCC GAGAAAAAGGACGGGGAAAAGAAGAGGGGAGAACAGABAACA A GAGAAGGAGGACCGGCCTAGGACAAAAAGGGAAAGAGAAAG $G G C C G A G G G G A G A A A A G G A A A A G G G G A A A A A A A A A A C C G G G G$ AAAGGAAAGGGGCCCCAAACAACAAAGAGGGGGGACGGAGGG A G G G G G G GCCCAAGAGGGAGAGGAGGAGGAGAAAAAGAAAAA G G G G A A A GCC GAA G GAAAAGGAGAAGACCCAAGGCCGGAACC GGCCAAAACAGGGGAAGGAAAAAGAAAACCAGAGGAGGACAA CAGGGGACAAACCCCAAAAAAAAAAAAAAGGGAAACGAAGAC A GAGCAAGATAGGGAGGGGGAAGGAAAGAAGGAAAACAAAGA GAAAACACCCGGGGAGGGGGGGCCGAGACCAAGGBAAAGGGG G G G A G A G G G G T T G G G G A G A A A A A A GAAAACAA A A A CA G CA G A GAAGGGGGAAAGAAAGGACAACGGGGAAAAACAAAAAAGGGG $C \subset C \subset A A G G A A G A A A A A A A A C A A A A A A A A C C A A A A G G G G A G A A$ G G G GAAAACCAAAAAGGGAGGGACTAAGAGAGGAGGGGCCBA G GAGGGAAAAGGAGGGGAGGAGGGGGCCGGCAGGAGAGAGGG CAA $A \operatorname{G} G A A G G G G G G A A A A G G A A G G C C C C G G A A G G G G G A G G G G$ G GAAGGCGAAAAACGGCAGGGGAAGGAAACCAAAGAAGAAGG A A G G A A A A C C G G G G GAAGCXAAAAAGAAAATTCCGAAAAAGG $C A T T G G G A A G C C G G G G T A A A G G C A G G A A A G G G A A A A G A C A A A$ G GAAAACCAAAACCGGGGAAAACCAAAAGGAAGGGAGGAGAAA $A G G G A A A A A G G G G A G A G G G G G G G G A A A A A A G G T T A G G G A G A A$ G GCCGGGGGAAAGGAAGGCACCGGGGAAGAACGAGAAAAGCC ACAACCGGAGAAAAAAGGCAGGAAGGATCCAACCACGAAGCG $A G C C A C G G G G G G G A C C G G A A A A G G A A G G G A A G G G A G G A G G A G$
 A G G G G A C A A A $\mathcal{A} G G A A G G G G G G G A A A A C C A A G G C C T T G G A A A A$ AC G G G A G GAGGGAGAGGAAACGAAGGGAAAGGCCAGAGAAAA AAAAGGAAGGAAGAGGCCGGAGGGGGAGGAGAACACAAAGAA $C \subset G G C A A A A A A G G A G G A A A A G A C C C A G A A G G G A A G G A A A A G G$ GAAGAGGAGGCCGGAAGGAAAAGGCCAAAAGGACAAAGAGAG GAAGAAGGGGGGGAAGAGACGGAAGGGGCCGGAAAAABAAGG $G G A A A G A G G A G A A G A G G G A A A A G G A G G G G G A A G G A G A A G G G G$ $A A C C G A G G G G A G G A G G A A G G A A A A A A A A G G A G G G G G G G A A A G$ GGAGCCAAAACCGACAAGAAAGAGAAGAGAGGGGGGGAGAAA A GAGCCAAGGAGCCGAACACAAACAGACGGACGAAAAAGGAG GAAGGGAAGGAAGGACAAGAACGGAGAGAGACAATTGGAACC A G G G G G G A C C G G G A A G G G G A G G C A G G C C C C C C A A G G G G C C C C C C G GACAAAAGGCCGGAAAGGGGGAAAAAAGGGGAAGGGGGA A GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A A \mathrm{~A}$ GAGAAAAACGAAAGGGAGGGAAAGGAGAA A A G GA GAA A A GAA $A$ A A GAGAGGAAGAAAGAGAAAAA GAAAAAG G GCAGCAGGGCCCAACAAAGGGTAAAGAAGAGGAGGAAGGGG A A G G G G G G C C A GAC CAGGGGAGGGGGGGAAAAGGAGAAAAAA A GAACCGGAAAAAGAATAGGAGGGGCGGAAGGAGAAAGAAAG GAAAGAGAGGAAAAAAGAGGAAGAGGAGAAATCGGGGGAAGA GAAGCCAAAAAACCGAAAAGTAGAAAGAGGACAAGAACAGAA GAGACAAAGAAGGGAAGGGGAAACAGGAAAGGAAGGGAC T T $A$ A $A$ G G G G A A G G CA $\operatorname{Cig} G A A C A G A G G G G G G A A A G A A G A A G G A A G G A A$ G G G G G G G G A G A CAA A A A T G A A A GAGGACGGGAAAGACCAGBA C C A A A A A GTTAAAAGGAAGGAAAAAAGGAAGACCA GAGA GAA
 G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGCGAGAAGGAGAA A GAACCAAGGCCGGAAGGAAGGAAGGGGAAGGCCAGGGAAGA GAAAAGCCAAGGCCAAAAAAGGAGGGGACCGGAAGACGCCBA GAAGGGGGCAGAAGGGGAGAAGGGAGAGGAAAGGGGAGAAAA G GAA A G G G G G G G G G A A C C G GAGAGGGGAAGCCGGAAA
GAAGGAAAGAAGGAAAGGGAAGGGGGGAGAAAAGGGAAAGG CAGGACGGGGAGAGACGGAAAAAGGGAGCCGGAAGAGAAGAG A A A A A A G A T TAAGAGAGAGGGGGGGGGGAGCCGAAAAAGGAA A GACGGGACAGAGGACAATTAGGAACAAGGAAAAAGAGAAGG AAGGAACGAAAAGGACAAGACAAAAAGGAGGGAGGAAAAAGA AA G GAAGGCCAAGAAGAGGGAGGGGGAGAAGGAAGGGGCCCA A GGCAAGGAGAGACGGAAGAACAAAAAAAAAAGGAAGGGAGG G G G G G GCC GAAACCGAGAAACCAAGAAACAACAGGAGGAAAA G G A A G A T T G G G GAGGAGGCCGGAAGGAAACAAGGAGAAAGAG C C A A C G A A A G G G GAGGAAAGAAGGAACGAGAAGGAACCGGAA G G GAGAGGCACCAACCAGAAGGGAGAAGAAGAGAAAGGGGAA AAAGAAGGGCGGGACCGAAGCAGGGGAAAAAAAGGAAAAAAG AA $\mathrm{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{G}$ GAAGGGGAAGGGGGGAGGAAAGGGAAGAAGAGG G G T T G G G G G GAAGGGGGGAAAAAAAAAACCAAGGGGGGGGAG GAAGGAGAAAAAGGGAAGAAGGCCAAGGAAGGAAAAAGAAGG
 G G G G GACAGGAAAGAAGGGGGGCAAGCCAGAAGGGGAAAGGG A GCAGGGGGAAAGGTtGACGAAGGAACAGAAAGGAAGGGAAA G G G GAAAAGCGGAAGGAAGGGGGAAGACGGAAGGGGGGCCGG A G G GAAAGGGAGAAGGGAAGAGAAAACACCCCGAGGGAAAGG GGAAGAGGGGGAAGAGCCGGAAAAGAAAGGGGAAGGAGAGAA GAGGACAGGGGGGGGAGAAAAAAGAACCGAGGAACCCAGGCC AC C G GAGGAGAGAAGGAGAGAGAGAAAGGGGGAAAAAAGGAA G G GACC G GAAAAGGAAGGTTAAGGGAAAGACCGGGGAAAAGG G G G GA A A A G G A A G A GAAAGGGGAGGGGGAAAAAAAAAAGAGA G G G A A A GCGGCCCAAAGGGAAGGAAGAAAAGAAGGGAGAGGG AGGAAGAGGGGGGAGACAGGAGGGACGGGGAAAAGACAACAA GAGAGGACCCGGAAGGATAACCAGAAAGAGAGAAAAGGCCAA

AACCGGAAAAGGGGCCAAAGGAAGAGGGAAAAGAGAAGAGGG A G GAA ACCAAGAAGGGAGAAAAGGAAAACCGGGGAAAAAAGG $G G A A G A A A G G G G G G G A G G C G C C A A A A A A G A A A A A A C A A C C T T$ GCAGGAACAACCGGGGGGAAGGCAGGGGAAGAGGAGAGCCCC G G G GAA A G GAAGGGGAGGAAAAAACAAACCAAAAGGAATAA G CAACGGCAGGGGGGGGAAGGCAAAAAGGAAGGAAGGAGAAAA G GAACAAAGGAGGAAAAACCCGCCGGAAAGACAAGGCCGGGA AACCGGAAGAAAGGAAAGGGGGGAGGAAAAAGGAAAAAGGAA
 AAGGCAGGGGCCGGAGTAAGGAGGGGAAGAGAAGAGAGGGAA GAAAGGGGACGACCGGACAAGGGGGGAAAGAGAAAGTTGGAC GAAGAAGGACTTAAAAAAAAGGAAAAGGAAAAAAGGGGGGGG $G G C C G G G G G C C A G G A A A A A A A G A G G G G G C A G A G A A G A G A A A G$ CAAGGAAAAAGGCCGAGAAGGGGGAAAAAACCAAGACAAACC A A A A A A GAACAACA GGAGAAAACCCCAAGGAGAAGAGGGGGG G G G GCCGGAAGGGGAAAAGGAAGGGGAAAACCAAGGAAGACA GAGGAGCAAAGGAGAACAGGGGGGCCAAGGAAGGAAAGCCGG C C G GAGAGCCGGAAGGGACCGACAAGGAGAACACAAAGAGAA A A A A A A G A A A G GAAAAAAAGGACCGGGGGGAAGAAGGGAAAA G G G GAA $A \operatorname{G} G A A C C C A A G G A A C A A A A A A A A A A A G A A C G G G G G G$ AAGGGGAAAAGGCCGAAGGGTAACGGCCAAGAAAGGGGGAGG AA $A \operatorname{GGGA} A A A G G G G G G G G G A A A C A C A T T G C G A G A A C G A G G G A$
 A GACAAAAAAGGAGAAAAAAGAAAGGGGGGAGGATTGGAGAA C CAATTGGAAACGAAAGGGGAAGAGGAAGAGGAAGGGGAGAG GAAGAAAGGAAACCGGGGAAAAGGAAAAGGAAAGAAACAGAC A A GAAAGGAAAGGGAAGAGGGAGAGGAGCCGAGGGGACAAAAA AAAAGGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGGAAAG GAAGAGGGAAAGAGAAGGAAGGAACCAAAGCAGGGAGAACAC G G GAGGGAGAGGGGGAAACAAAGAAAAAGGAAAGAACCACAA G G G GAA $A \operatorname{GAA} G G G G A A A A A A C C A A A G C G A A G A A G C C A A G G G G$ AGCGCCGGGCGCACAAACAGCCGGCGGGAGAACCCCAAGGAA C CAAAA A GAACCGGGGAACAGAGAGGAGGGAGGGAAAA GAAA GACCGGGAAAAAAAAAAAAAAAGGGGGGACAGGGACCCCABA A G A G G A T A G G G G A G G G G A A A G G A G C A G G T T A C G G A G C C G G G A G G GAA $A \operatorname{GGGG} G A A G A A A G G A G A A G G A A G A A A G G A A G G A G A G A G$ AACAGGGGAAGGAGAAAAAAGGAAAAGGGAAAGGGGAGGGAG G GAAAAAAGGAACCGAGGGAGGGGAGCCAAGACCGGAAAAAG GAGACAAAAAAAAAGAAAGGAAACCCAAAGAAGAGGGAAAAA A G A A A A A A G G G A A A GAA GAAAAACACGCAGACAACCGAAAA G GAGGGGAAAAGAAAAAAGGGAGAAAGAAGGAGGGAAAAAAGA A G G GAA A G G GCACCCAGGAAGACCAGGAGGGAGGGACAGGGG AAAGGGACATAGAAGGAAGGAAAAGACAGACCAGAGAAGGAA A A A A A G G G A A A G G A GAAAGGAAAAAGCCAAAGAAAAAAAACC G G G G G GCCGGGGAGGGAAAACCGGCCGGGGAGAAAAAAAACC
 AAGCAACCGGAAAAGAAGAGAAGACAGAGAAGCCGAAAAAAG A G G A A G A A G A G G A G G G A G A A GAGGGGGGGGCCAAGACCGGGA AA $A G A A A A G G C C G A A G G A G G A A A A T A A A G G G G G G A C A G A G A A$ A A G G G G A A A A A GA $\mathrm{A} G \mathrm{G}$ GAACCGGGGAAAGGGAAGAAAGGAAGG G GCCGAAAAGCCGGAGAAGAAGGGAAAAAGAAAACCAAAGAG AAACGGAGAGGAAAGGAAGAAAAAAAAACACAGGAAAA GAAA A A A A A A A A A A A A A A C C G GAAAAGGCCAAAAGGCCAAGGAAAA G G G GCCGGAAGGGAAGGGGGGGAAGAGGAGAACCAAGGAGCC AAAACCAAGAGAACAAGGGGGAAGCAAGGAAGACCCGAGAAG G GAAGGAAAGGGAAGGAACCGGAAAAAAGGGGACAGGAAGCC GAGATAGGAAAAGGAAGGAGAAAAAACCAGAGCAGGCACCCG GACCGGAACCGGTTTTGGATACAGAAGGAAAACAAAAGCCCC $G G C C G A A A A A A A A A A G A C A A A A A A A G A G C C A A A A G G A A G G A G$

A GAGAAAGAACAGGGGGGAAGGAGAGAACCCGAGGGAAAAGG A A GAA $\operatorname{A} A C A C C A A G G A A G A A G G G G C C C A A A A G A A A C G G G G G A$ AAAGGGAGGGAAAAGAAAAAAAGAGGGGGAAAGAGAAAAGAG AAGGAAAAGGGGAACACCACAGGAGAACAACCCCAGAAGGGG G G G G GCGGGGAGCAGGAACCCCAGGGAGCCAGCAGACCAGAAA
 C C G GCCGGAACCAAAAAAGGAAGGGGAGCCAGGAGGCCAAGA G G G A A A G A A G G A GAGACAAAGGGGCAGAGGAAAAGGAAAGGG G G G A A T G G A G C A G G G G A A A A G G G G G G C C A GACAAAA A A A G G A CAGAAAAAATAGCCAGCCGGAAAAGGAAAGAGAAAGGGACGG A A A A G G GAA $A \subset A A A G A C C A G T A A G A A G A G G G G G G G G G G A G A G$
 G G G A GCAACCGAGGAAAGGAAGGGGAGGGGAGAGGGAACGAG A T G A A GCAGGAAGGAAAGGGAAAAGAAAGGGGGAGAGGAGAG AAAAAACCCCGGACGGGGAAGAAGGGGGGGAACCGGAGAAGG GAAAGGGGAGGGGAGGAGAGGGGGAGGGAAGGAACAGAAAGA A GACACAGAGGAGAACGGCCGAAAAGACGGAAGAAAGGGGGG GAGAAGGAGAGGGGAGGGAACCGGGGAAGGAAAGAACAAGGG $G G A G A A G A G A G G G A A A A A A A A A A A G G G G A G A A A A A A G A A G G G$ A GAGCCGAGAGGGGGAGAGAAAGGGGAAACGGGAAACAAAGB AGGAGAAAGAACGGAAGGGGGGGGCCGAAAACGGAAAAAAAA G GAGGGGAAGGAAAGGAGGGTACAAGAAAGGGGAAAGAAGAC T T G G G A A A G G G A A A A G G A A G G G A A A G G G A A A G G G G A A C A A G G G G A A G GCCCCGAACAAGGCCGGAGAGCAGGAAGGAGACAGAA CA $A$ A $\operatorname{GAAAAAAGGGGCAACGGGGAGGGAGGGAAGGAAGGAAAG}$ GAGGCCAAGACCAGAAGGAAAACACAAGAGAGCAAGGGGAAA G G G GCCAACAAAAAAAAAGGAAGGAAGGAAAGGGACAGAGAA A A GAGAAAAAAAGGAAGGGAGGAAGGCCGGGGAAGACAAA GA G G GACCAAGGGGGGCCAGGAACGAAGGAGGAAGGGAGGAGAA A A A A A A $\mathcal{A} A A G G G G G G A G G G G A G G G G G A A A G G G A A A A A A A A C C$ A G G G G A A A A A G G G G A A G G A A A A G G A A C C C CAC GAA A A
$G C C G G A A C A C A G G A A A A C A G A G A G G C A A G A A G A G G G A C A G G$ AAGGAAGGACAGGGAGGGAAAAGGAAAAGAACGGAACAAGGG G G A A G GCCAAAAAAGGAGGGGGAAAACCGAAAGGAAGAAAAA G G A A A A C C G G A G A A G GCCAACA $\mathcal{C} A A G G A A A A G G A A C A G G G G T T$ G G GAAA A A GAGGGGGGACAAGAAGAGGACGGGAAGACBACCC G GAAA A G G G GCCAAGGGGAGGAAGACAAGGCAGAACGGAGAG GATAGAAAGAAGAGGGCCAAGGAAGGGAAAGGAGGGAAGGGG A G G G G G GACCGGAACCCCGCGGGAAGACAGGAAAAGAGGGAG A A A A A A G G G G A GAA A GAGAACCGAAAAAAAAAGGGGAAAAAA ACAAAAAATTGGACAGAAAGGAGGAAAAGAGGCGAGGACCBG A A G G G G C C G G A G G G A G G A G G A A G G G G G G G A G G G A G G G A C C A A AAAAGGAGGGAAGGCAAAAGAAAAGAGAGGGGGGAACAGGGG A GCAAACCGACCGAAAAAAAGGCCAAGGGGAGCCAGGAGAAA
 GGCAAAAATTACAGGGGGAAGGAAGGGAAGGAAGGAACAAAG AAAA A $A \operatorname{AGGGGGGGAAGCCCAAAACAAAAGGGAACCAAGAGG}$ AACCGGGGAAAAGGGGAAGGGGGGAAAAAAGAACAAAAAGGG AA $A G G A G G G A A A A G G G A G C C A A G G A G G G C A C A G G A A G G G G G G$ AAAGGGGGAGCAAAAAGGGGAAAAAGGCAAGGGAAAGGCCCC CAGAAAAAAGAAGGAACCAAACAGGGAAAAGGGAGGGGGGCC GGCACCCCAAAAAGGGAGAAGAGGGGAAAGAAGGAAGGAAGG G G G G A A G G G G G G A G G G A G A A C C G G G G G G G G G G A G A A G G G G A A T T G G G A GAAGCAGGAAGAGGAGAAAAGGAGAGGAGAAACAGG A A A G A G G G A A G G A G G G A A G G G G A G CA $\mathcal{A} G A A G G A A G G G G G G G G$ GGCCAAGGAGAACCAAGGAAAAGAAGAAAGAGAGAGAGACAA
 G G G G A G G A G G A A A A A A G GA GAGGGGAACACAC GAGGCCAGAA AGAAAGAAAACCCAAGGAGGCAAGAAAAAAAAGGAGGGGGAG

AAGGCACCAGCAGGAGAAAAACGGAAAAGAGGACGGCACCGG A GAAGGGGAAGGGGAAAAAAGGAGCCCCGAAAGGGGAAAACC GAACGGCCAGAGGGGGAAAAGGCCGAAGAAGGACGACGAACC $C C G G G G C C G A G G A G G G G G G G C C G G A G G G A G G A A G G G A A A A G A$ G GAAGGGGAAGGCCAAGGAAAAGGGGGGAAGGGGAAG TATAA AAGGAAAACCAAGGCCGGGGCCGGGGGGAAGGAAGGCCAAGG G GAA A GCCAGGAGGAAGGGGAAAACACAGGCAGAGGCAGGAG $A C G G A C A G G A A A G G A A G G A A A A G G A A G G A A A A G G G G A A C C C C$ G G G G A A A A G G G G C C A A G GAAC C G G G GAAAA A G A A A A A G G G G A A $C C G G A A G G G G G G A A G G G G G G A A G G G G A A A A G G A A G G G G G G G G$ $C C G G G G A A A A G G G G G G C C G G G G A A G G G G C C A A G G G G A A G G G A$ AA $A$ A A A GAA $A \operatorname{AGGGAAAAGGGAAGGGGAGGGAGAAGAGAAAAA}$ AAAAGGCCCCCCGGGGAAAAGGGGGAAGAGAAGGGGGAGGGG
 GGAAGGCCAAGGAAAATAGGAGCACACAAAGGAGAGCAAAGAG G GAAAAGGAAGGAAGGAAGGGGAAGGAAGGGGGGCAAAAAAC
 G G G G G G A A A A A A G G A G A A A G G G G A G G A A A A G G G G A A G A G G G A AAAGGGGGAAGGGGGGAAAGGGGGGGAAGGAAAGGAAAGGCC
 G G G GAAAACCGGGGCCGGGAAGAAAACCAACAGGAGGACCCA AAAAGGACAGGGAAAAGGAAAAGGGGCAAGGAGGGGCAAAAA
 GAGGAGAAGGCCAAAAGGAGCCGGGGAAATGAGACCAAGGAA GAGGACAGCCAAGGAACAACGGGGAAAAGGAAAAGGAAAAAG ACGAGACCAAAGAGAGAAGAGAAAGGGAAAGAGAGGCCCCCC GGACAAAGCAAGAAAAGAAGGGAACCACCCGAAGGAGGAAGG $A A C C A G A A G G C A G A A A G G A G C C A A G G A A A G A C A G A A A C A G G G$ A G G A G G A A G G G G G GCCAGAAAGGACCAAGGACGGGGGGCCGG A G GACAGGAGGGGGGGGGAAAGAGGGAGCCGGGAGGCCAGAG C C G A A A A A G GA G GAAACCCCAGGGAAAACCAACA GGGAGGGG A G GAA A A A G GAAGGCCGGAGAGAGGGGAAAAAGGGCGGAGAA G G GAGGAAAGGGGAGGAAGGACTAGGAACCAAAGGGAACCGG GAGACAGGCACAGAAAAACCAGACAAAGGAGAGAGAGGGGGG A A G G G G T A A G G A GAG $A \operatorname{GGGGAGGAGGAAAGGAAGGAGACAAAA}$ G GAGGGGGAGAAAACCAAGGCCGGAAGGAAAGACAAGGAAAA AAAAAAAAAAAAGGGAGAAGCAGGAAGGAGAAAAAGGGAGGA A G G GACGGAGAGGAGAAAAAGAGGGGGAGAAGCAAAGGAGAA $A G G G A A A A G G C A A G A G G G G A G A G G G G G G G G G G A A G G G G G G G G$ A A A G G GAA A G G G G GAGGGGGACAAACAAGGGAGGGGAACC A A GGAAAAGAGAGAGGAAAGAAAGAGGAAAAGAAGAAAGAAGAA AAGGGAGGAGAGCCGGAGGGCAACAAGAAAAAGAAAGGAGAC GAAAGAGAGGAACAAGAGGGAGGAAAGGGAGGGGGGAGAACC A A GACACAAGAGGGAAGAGGGAGGGGAGGGAGAGGGAAGACC GAAAAAGGAGAAAAAGGGAAAAAAAAAGAGAACAAGAAACBG G GAA $A \operatorname{GA} A \subset A G G G G A A A A A A G G G G G A C C G G A A G A G G A G A G G G$ G G G G C A A G GAA A G GAGAAAAAA A A A G G G G GAGA A A C C C A G G A AGGGGAGGCCAAAGAAAAGGAAGAGAGGGAAACCGAGGAAAG G G GAAAAAGGGGCCGGAAGGAGAAGAAAAAAGGGGGAACAAA AAAACCGGAAAAAAAAAAAAGGAAAGAAAAAAAAAAAGAGGA ACGAAGAGCAGACACCAGGGACAGGAAAAAAGCCGAAAGGGG CAAGAGAAACGGGGGGGGGGAACCGGGGGGAACCACCGGGGG AAACGGAAAAAGAAAAAAGGACGAAACCGGCAAGGGABAAAG AAAAGGAGGGAGGGAAGGGGAGGGAAGGCCAAGGGAAGAACC GAAGGAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAACAAAAA A A A A A A G G G G T T G G G G GAA A A A A A A A G GAGAA G GAAAACCCC CACAGGAGAGGACAGAGGAGGGGAAAAAGAAAAAGAAAAGAG A G G G A A G G G G A G A A G G GAAAAAACC G G G G G G G G A A G GAA G G G G AAAAGGGGGGGGAGGGAAAAAAAAAAAAAAAGAAAAAGGGAA

A G GAGGACAGAAAAGGCCGGAGAAGGGGAACAAAACGGAGGA
 A A A A A A A A G G A A GACCAAGGGGGGAAAGAACCAAAC AA GGGG A GAGAGCAGGAGCCAGAGGAGAAGAAGAGGGGAAGGACAAAG GACCGGGGGGGGCCGGAAGAAAAGAAAACCGGAACCACAGBA C C A A G G A A A A G GAA $A \operatorname{G} \operatorname{GT} T A G A A G G A G A G A A G A G G A A A A G G A A$ G GAGAGGGCAGGGGAAAAGGCCGGAAGGAAAAAAGGGGGGAG $G G A A A A G G G G A G G A G G A A G A A G A G G A A G G A A G G A A A G A A G G G$ AACCCCCCGAACAGGGGAAAAGGGCCCAATGGGGGAGAAAAG AAGAGAAGGGAAGACCGGGGAGAGAAGGGGGGAGGGGGGGCC AACAAGACGAAGAAGAGGGAGAAAGGAAACAAGGAAGAGAAA GAAGGAGAAAAAGGGAGACAAACCCCCCCCAACCAAAAGGGG $G G A A A A A G C A G G G G G A G G G G A C G G A A G A G G T A A C A G A A G G C C$ A A G G G GAACCCCGGAGAGCAGAAGAGGGTTAGGGAAAGAAAA G G G GCCCCAGGGAAGGAAAAGAAAGGCCAAGGAGAAAGGGGG G GAGCCGCGGACAGACAGAAAAAAGGAAGGAAGAAGACGGGG
 A A A A G A A C G G A G G G G G G G A GAA $A \operatorname{GCC} C G G A A G G A A G G G G G G A A$ AAGGCAAGGGAGAAAAGGGGGGAAAAAAGGAAACAAGGAGAG GAAAGGGAGGAAGGAAAAGAAAGGGAAGCCGCAAGBAACAGG G GAAAAGGAAGAAAAAGGAGAAAGAAAAACAGGGGGGGGGAG G GAAAGAAGGGGGAAAGGGGAAGAGGGGAAGGGGACAGGAGG G G A A A G G G A A G GCCAA G GAAAGGGAAGGACCCAAAA GAGGGG
 A G G GAACCACAGAGAGGGGAGAGGAAAAGAGGGAGGGGAAAG ACGGCAGGGGAGGAAAGGGGCCAAAAAGCCACAAACAACAAA AAAAGGGGAAGAAAAAAGCGGGAAGAGAGAAGAAAAGAAAAA A A A C C C A GCC GAGACACAAAAAAAAAAAGGGGGGGGTTGGGG1 A A G G G A C A G A G G G G A G G GAACAGGGAGAACGAAGAGGAACGG G GAAAGAAAGGGCAAAGGGGGACCAAGAATCAAGAGAGAACA A GAGACAAGGAAAAGGGGAAGGAAAAGGGGAAGAAAC
$C G A A A G G G A A G C C C A A G G A A C G A G G G G A G G A G A G G G G A A A G$ A GCCAGCCCAACGGAAAAAAACGGGAGGAAAGGGAACAAAGB A A A A G G A G G A G A G A G G G G C C G G T T A G G G G A G G G G A G G G C C G G G G G G A T G G G A G A G A A G A G A A A A GAGCGGCAGGGGA GAA G G A A A GAG A G G G G A T A A A A A A A A G G G G A A C G A G G G G G A G A A A A A A A $G$ A A G GCCGGAGGAGAGAGGATGGAGGGCCAGCCAGAAGGAGAG AA $A$ ACCGACAAACAAAGAAGGGGGGGAAGGGGAAAGGGAA AA A A G G G G G A A A $\mathcal{A} G G G A G A G G G A G G G G G A A C C G A A G A C A A G G G G$
 AAGAGACCAAGAAAGGAGAAAAAGAAGGGAAACCAAAGAAGG G GAACCGGGGCCGGGGAGAAGAAGAAAAGGGGAAGAAGAGAG A A A A T TAA A G GAGAAATTAGGGAAAGAGGGGACAGAAG GAGG ATACAGGAGAGGGACCAGAACCGGAGGAAAGAGGAGGACCGG
 GACGCAGGAAAAAAAAAGGGGGGAGGGGAAAAAAAAAATTCG AAAGCCAAAGAGAGGGCCAGAAGAAAAAAAAAAGAAAGGGGG G GCCGGGGGGGGAAGGAAAAGAGGGGGGGGAGACAAAAGAAA AC G G G G G G A A C C G G G G G GA G G G G G G GAGCAGAGGGGGGAAAA G G G A C C A A A A A A G A GAA A G G G G G G G A A G C C C C G GA GA G GAA A ACAAAGGAGGGGAAGGCCAGCAAGGGAACCGGCCAAGGCCGG
 AAAACCGAGGAGAAAACCAAGCTACCAAAAGAGGGGCCAAGG GACGAGGAGGGACCAACCAAAATAAGCCACCAGGGGGGAAAC A G G G G A G G A A G GCCAGCCACAAGACCGGAAGGAAAAAAAAAA A A G G G G G G A A G GCCAACCAAAGTTAAGGGGAAGAAAGAACAA
 A G C A G G G G G G A G G G A A G G A A A A A C A GAGGGAAA G G G GAA A A A GAGAAAAAGAGGAGGGAAAAAACCAAGGGGGGAAAAAAGGAA

AAGGAACCGGGGAAAAAAGGGGAAAAGGAAAAAAAAAAAACC A A A A A A A ATTCCAGGAAAGACAGAAGGAGGGGAAAATAGGAG GAAAGGGGAAAAAAGGAAAACAAACCAGGCAAACACAAGGGG A A GAA A G GCATTGAAGGACAGAAGAGACCAAGAGAGGGCAAC A A GAAAAAAACCAAAAAAAGAGAAGAGGAAAACGAAGGGGAA AAAAGGCCAAGGAAACAAAACCCCAAGGAAAAGGGGBAAA GA G G G G A A A G A A G A G A A A A GCACAAAAAAAAC $\mathcal{A} A A G G G G A G G G G G$ ACGGGGAACAGGGGAAAAAGAAAAGGAAAACCAAACAAGGGG A G A G G GCC G G A GAGGGCCGGAAGGGAAAGGAAGAAGAACCGG A A TAACGGACGAAGAGAGGAGGACGGGGAAAAGGAACCAG GA A G G GAA A A G GAGAGAGAAAAGAGAAAGGCCCCCAAGAGAAAA G G G GAGTACCAAGAAATAAGAAAAGAACGGCCAAAAAGAAAA GAGACAGAAGAAAGGACACCGGAGGGAGAGAGGGAAAAAAAG G GAAG $A \operatorname{ACA} A G G G A A A A A G G G G G G A G G G G G A G A C C A A G G A G G A$ A A A A A A A A G GAAGGAGGGCCAGAGGAAAAGGAAAAAAAGGAA GAGAGGGGACGGGGAGAAAAGGGAGACCAAGGGGAAAAGGGA G G G G G A G G A A G G A A A A GAA $A \operatorname{AGAGGAAGGACAAAAGAAAAGGA}$ G GAAACGGAGCCGGGAGAGAGAAAAAAAACAAACGGCAAAGG $G G A A G G G G A A G G G G G G C C G G A C G A C A G G A A G A A A A A G G A A G A$ A A A A C C A G G G A T G G A G G A A G GCGGGGGAGGCAAAGAGAAAAG G G GAAAAGACGAGAGGAGAGCACCGGCCGGAGAAAGAAAGAA AAAGAAAGAAAAAGCCAGAGAGACGAGGCAAGCCAAGGGGCC G G G GAGAGGGAAAAGAAAGAAGAGCCGAGAGGGGACAGAGAA A A G G A G G G A G A A G G GCAGGGAAGGAACCACGAAACAGAAGAG $A C G G G G A A C A G G A G A C A G C C G G G G G G A A G A G A G G G G G A A A G G$ G GAAGGAAGAAGAGAGAGCCACAGGACAGGAACCAAAAAAAA CAGGCCAGATAAACAGAAGACCACAAACGGGAGGGACCAGAG G GAGGAGAGGAGACAGGGGGGAAGGAAAAGGGAAA GAAAGGG A G A A A A A G A GAAC G GAGGACAGAAGGAAAAGGGGAAGACCAA A GAGCAAAGGAAAAGAAGAAAAAAAAGGAAGGAGGGGGAGAG
 GAGACAGGAAGGAAGGCCCCAAAAGAGGCCGAAAAAAACGCC GA $A$ A A A A A A A G A G GACGGGGACGGAAAAGAAGACAAGECCAC A G A G A G A A G G A A G G G G G G A A G G C C C C G A A G G G A G A G A A G G G G G G G G G GAAAGCCGAAAAACAGAAAGGAGGGGGAAGAACAAAC GAAAAGGGAAAAAAGGGAAGTAGACAGGAAAGGAACGAAAGG A A A GAAAAAAAAAAAAGGAGAAAAGCCCGGAAGAAGGAAGAG A A A A G GAGGGGGGAAGGGAAGGAAAAGGGGGGCCAAAGAAAG G G A A A GAACCAAGCGGGAGAGACCGGAAAAAAGGGGGGCAAA C C G GAAAAAAGGAAAAAAGGAAGGCCGGAAAAGGGAAAGGCC G G A A C C A A A A G G G G G G G G G G G G G G A A A C C C C A C A GA G G C C G G G G G G A A G G A A C A A A G G GAC G CAGAGGGGAACCAAAAGGAGAA G GAAGGACAACCCCAGGGGGGGGGGGAAGGGGAGAGAAAGCC A GAAAGGGGAACAGGGAAGAAAAAGAGGGAGGGAAGAAGAAA G G G G G A C A A A C C G GCCCCGGGGAAAGGGGGAAGAGGCCAACC G GAAAGGAAAAAAAAAAAAAAAAAGAAGAACCAAAGAAAGCC A A G G A A A G A G A C G A A G G G G G A G G G A G G G G G G G G G C A G G A A A A AACCCCGGCCAGGGGGCAGAAGCCAGATAAAAGAGGCAAAAG GAAGGGCCAACGGGCAGGGGAAAGAAAAGGGGGGAAAAAACC GAAAAAAACCAAGGACGAGGAAAGAAAAGGAACCAGGGGGGG G G G G G G A A G G A A A C C C G G G G C C A A G G G G G G G G C C G G A A A G G A G GAAAAAGACAGGAAGACGAGGGGGGAAAAGGGGAAAAAAAA A A A A A A G G A A A G CAACGGAGAGGGCCCCAGGAGAAAGGAAAA GAGGGGAAAGGGAAAGGGAAAAAAAAGGGAAGAGACAAAAAA GAAGGGCCAACCAACACGAAAGGAGGGGGGAAGGGGGGAGAG A A G A A GCA G GAGGGAACAAAAAAGAGGGAACCAATTGAGACC
 CAAACAAACCCCAAAAAAAGGGCCAGAAGGCCCCCACC G GAA AAAAGGAACCAAGAGGGGAAAAAAAAAAGGAACCGGAGAGAA

A A A A A A A A G G G G GAAAAAGACCCCAGGAGAAGCCAGGAAAAC GAAAAAGAGACCGGAGGAAAGAGGAGAAAGCCAGAGAAAACC A A G G G G G G CA $A \operatorname{GA} A G A A C A G A A A C A A G A A G A A G A G A G G G G A G$ G G G G G G GAAAAAGGCCGGAGACCCAAGAAGCAAAAAAGEGCA A T G GAGAAAAAGGAGGGGAAAGAGAGGGAAAACAA GAAAGGG
 A G G GAA $A \operatorname{GAAAAAAACCGGAAGGAGGAGAAGATGGGGGAAGAA}$ GAAAAGAAGGAAGGGGGGAAGAAGAGGGCCCCCAGAAAGAGA A A A A T A C C G A A A C C G G G G G GAGGGAAAGACAGGGGEAACC G G GACCACCCAGAAGAAAACGGGAAAGAGGGAGGGGGGGGGAGG C GCA C GACAACCGGAAGGGAAGGAGAGAGGCAGAGAACGGCC G GAAAGAAGAAGGGCCGGGAAAAACAGGGAAGAGAGAAAGCC A A A A A G A A G G A A G G G G A G G A G G G G A A G G A G G A C C G GAAAAAA A A G G G G G G A A A A G GAA $A \operatorname{AGCCGGAAGAGGACAAACAGGGGGGG}$
 A A A GAA A G GAGGAC G GAA A G GAGGGGGAAGAGGGAGAGGCC GA C C A A A G A G A A G G G G A A G GAGGGACAACAGACGGGGGACA GAA A GAGCAGGAAAAGGACGGCAGGGAGGGGCCGAGGAACACABA $G G C C G G G G G G C C G G A G A G C A C A A A G G G A A A G G A G G G G G A G A A$ C C G G A A G A A G A A C C A G G G C A G G A G A A A C G A G G G A A A G G G G A A A GAAAAGGAGGGGGGGAAAAAAGGGGAAAAGGAAGGGAGAAG A A GAGAGAGAGGGGGGGAAGAAGAGAGGAGGGGGAGAACAAA
 A A G G A A A G A GCCGGAGAGCCAAAAAAGGAAAAAGAGGGAGGG A A A A A ACCCCAGGGGGAGCAAACCCCAAGGGGGGAAAAGAAA G G G G G GAA $A$ GAACCAAAAAAAAAACAAAGGAACCGGCCAGAA A A G G G GAAAA A $A$ A A A C C G G G G G G G G G GC C G G G G G G A A A A G G G G G G G G G G G A A A A A A G A C A G G GA G C C A G GAC C G G A A G A G G G G G G $C \subset G G G G G G A A A G A C A G A G G G A A G A A A A A G G A A G G G G C A C A B A$ A G G G G G A T G G G GAAA A G GAA A A G C CAAAAAA AAAA A G G G G G G G GAAAAAAGAGGGGGGGAAGAAAGGGAGACAAGGGCCA
$A C C A A A G A G G A A G C C A A G A G A G G T A G G A A A A C C A A A A G C G A$ C CAACCAAAGGGGAAAAACCGGGGGGTAAAAAGAAAGEAGCC
 ACGAAGAAGGCCGACCAAGGGGGGGGAAAAAAAAGGAAAAAA
 G G G GAAAAGGAACCGGGAGAAGCCGGAACCAAGGAGAAGAAA G GAGAA $A \operatorname{G} G A G G G A G G G A A A A G G A G A A A G A A C A G A A A A A A G G$ A A A G A C A A A A G A A G GAAA GAA GAAAAAAAAAGGAGGAGGCAAA A A G G A A A A G GAACCAAAAAAGGAAGAAAAAGGGGAAAA GAAA G G G G G G G G G G A A G G A A G G G GCC G G G G G GAAAACCAACA G G C A TAAGAAAGAGAGAGAGAACAAAAGAGAAAAAAGGGACAAAGBG AAAGAAGGGAGAGGAGGGGAAGAAAAAAAACCGAAACCAGAC CAAAAAAAAAGGGGGGAAAAGGAAAAGGGGAGGGAAGGGGAA G GAGGGGGAAGGGACCCCGGGGAAAAGGGGAAGGGGGGCAAA A G G G G G A A A A A A G G CAC C G G G G G G A GAGAAGGCCGGAA GA GA AAAAAAGGAAAAGGAAGGAAGGGAAACAGGGGAAGGGGAGAA
 GAA ATAGGGGGGGAGGAAGGAAGGAAAACCAACCGGGGGAGG C C G G A A A A G G A A A A G G G G A A A A GAA AGGCAAACCAA G G G GA A $A A G G G G A A G A G G G G G G C C A A G G G G G G A A G G G A G G A G A A A A G G$ A A A A A A A G ACAA $A \operatorname{A} A G G A G G G A C G G G G G G G G G A G G A A A A G G C C$

 G G G G G G G G A G A G A G C A G A C C C C A A G G G G G G G G C C A A C C G G G G GGAACCCCCAAAGAAGAACCGGAAAAGGGGGGGAAAGGAGAG C C G A G G G G A A A A C C G G CA GAAC GAGGCCAAAAAAA G G GTTGG G G G G G G A C G G G GC C A A G G G A G A G G C C A A A A A A A A A C A G G G G G G GAAAAGAAAGGGGGGGGAAAAGAAAACGAGAAAA GAA GGGG

GAGAGGCCGAAAGGAAGGGGAAAAGAAAGGGGACGAAGAGGG
 G G A A C C C C A G G GAA $A \subset A G G G G G A A G A A A A A A A C C A A A A A A A A$ A A GACAACAGACCCGGAGAAGGGGGGCCGGCCGAAAGGAGCC GAACGGGGGGGGAACCGGGGACGGGAGACCGGAAAACCAGAA C C G G G G A A G A A GAGGAAGAACAAGCAAAGGGAGGAGAAGAAA G G A A A A G G A A G G G G A A T T A G G G G G G A A A A A A G A A G G A A A A G G G G G G GAGAGGACAAAGAAGAAGAACCAACCAGAAGGGGGGGG C C G G G G GACA $A \operatorname{AGGGAGGGAAGAGGGGAAGGAAAAGGAGAAAG}$ GACAGGAGGGACGGGGAAGGGGTTAACCGGAACCGGGGGGGG G G G G G A G G G G G G G G A A G G G GAA $A \operatorname{GAAACCGGAAAAGGGAAAAA}$ G G G G G G G G A A G GAACCAAAAGGGCCAAAAGACGGACAAAACA A A G G A C G GCCAAAACCGGGGCAAAGGGGGAGGAAAAGGGGGG
 AACCGGGGAAAAAAGGAGAACAGAAAAAGGAGGGAGCAGGAG GACAAGAGAAAAGGACGGAGGGACGAGGGAGGAAAAGGGAGA GGAACCCCCCAGGACCAAAAGGAAAAGGAGAGGGGGAAGAAA AAAGGGAAAAAAAACCGGAAACGGAAGGGAAACGAGGAGAAG A A G G G G G G G G G A A G G G C C A GAA A G G G A A A A $\mathcal{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A \mathrm{G} G$ G G G G G G G G A A G G C C A A G GAA A G G GAA $A \operatorname{AGGGGGGGACCAAGXC}$
 GAGGCCGAGAAAGGCCGGGGGGGGAGAAAGAAAAAAAAGAGG A A G G G A G G G G A A C C G A A G G GA $\mathcal{A} G G A A A A A G G A A G G G G G G A G G G$ G GCCGGAAGGAAGAGGAAGGGGGGAACAAAAGGGAAGAAAAA
 G GCA $\operatorname{CA} A A A A G G A A A G G A G G G A G C C A G G G A A G G A A C C G G A G A A$ C C A G G G GAAAAAAAGGGGGGAAAGGGGGAGGAAAGAAAAAAA G G G G G G G G C C G G G A G A G A G G G A G A G G G A GAGGGGGGCAAAAA G G G G A A A A A A GAGGGAGGGGAAAAACAAGAGGGGGAAAAAAA G G G G G G G G A A A CACAGCCGGCAAGGAGAAGCCAGACAGAGAG A GCGAGCCGGAAGAGGAGAAGGAAAAGGGGGGAAGGGAAAAA AAGGGGGGGGAGAGAAAGAAGGGGGGAAAGGAAAAGAAAAGG
 $A G A A A G C C A G G G C A G A G G A A G G A C G G G A A G G A A G G A G G A G A G$ GAAAGAAAAGAGGGAAAGAGAAAAAACCAAAAAAAA GAAAGGG G GAAGGGGAGGGAAAAACCCCCAAAAAAGAAAGGCCAACCGA GAAAAGAAGGAGGGCCGAAGGGACGGGGGGAGAGAAGAAGAG AAAGCCGCGAGAAAAGCAAGAACAGAAAGGAGGAGAGAGAGA A A G G A A A G A A G G G G A A G G G G A A A C G G A A A A A A A GAAA A A A A G
 AAAGGGAAGGCCGGAAAAGGCCGAGAGGGGGAGGGAGGGGGA
 G G G G G G A G G G A A A G C C G GAAA G G G C CA G G G G G G GAC C C C C C GAGGGCACCCGAAAGAGGCAAAAAAAGAGGGGGGCAAGAGAG
 TAAG $A \operatorname{A} A G \operatorname{A} A C C G G C C G A A A A A G A C A G A G G A A G G A A G A A G G G$ A A G A GACAACGGAGCCGGGAAAAAAAGGAGGGGGAGGGAGAB G G G G G G G G A GAAAAGAGAGGCCGAAGAGGGAAGAAAAA GAAA A G G GAA A ACAAGGGGGGAAGAAAGGGAGGGCCGAAACC G GTT $A \subset A G G G T A G A G G A A G A G G G G G G A G G G A A A A A A G A C C G G G G G G$ G G G G T TACGGAAGGAAGAAAACCCAAGGAGGGGGAGCACCCC G G GAAAACAACCCAGGAGAAGAAGATACGAAGAAG GAAAAG G A A A A A A A C G G G G A G C C G G G G A A A A C C G G G G G G G G G G G G G G A A GACCGGACAGGAGGGGCCAAGGAAGGCAACGGAACAGGAAGA G G GAGGGGCAAGGGGAGGCCCCAAAGAAAAAAGGGGGAGAGG GAGGAAAAGGAAGAGGGGAAGGAAAAAAAAAAAAAAGGAGAA G G G A A A G A G G G G G G A A A G C C A GAGGGAAAAGGGGGGA G C C C C A GCC C G A A GA GAG G G G A A A A G G C A A G GAAAAAAA A A G G GA GA C $G G A A G A G G A A G G G G G A A G A G C G G G G G A A T T A G G G G A C C A A A A$

G G A A A A A A A A G GAACCAAGGGAGGAAGGGGAAAACCGGAGAA AA $\mathrm{A} G \mathrm{G} G \mathrm{GAACCGAAAGGGGACAACCAAGGAACAAAGGCCAAAA}$ T T G A A G G G G A A TAAACGGCCAAAAGGGGAGAGAGAGAAAAGA GAAGGGGGGGAAGAGAAAGGAAGACAAAAAGAGGAAGGAAAA A GCCGGGGCCGGGGGAAAGAGGAACCGGGAAGAGAAGAAACC G GAAAA $A \operatorname{A} A A A A A G G G G G G G A A G A C G G A G A G G G G G A A G G A A A A$ GAAA A G G G A A C C G G GAGGGGCCAAAAACGGGGAA GAAGGGGG
 G GAA A GCCAACAAAGAGGGGAAGGCCAGAAGAACGAAAGGAG G G G GAGGGGGGACAAGAAGGAGGGAGGGACGGCCGGAACAAG GAGGCCAAAACCGGGGAGGGGGGGCCAAAAAAGGGGGAAGAG G G A A A A G G G G G GCGAACCAAAACAAGGGGGAGGGGAAAAACC GAAAGAACAGAAGAAGGGCCGGGGAAAGGAGAGGAGGGAAAA A GAG G A C C G G G A G G A G G A A G G A G G G A A G A C A A G A G G C C A G G G AAAGGGGGACGGAAAAAGAAAAGGAGAAGGACGAAGAGAGGG G G G GCA $\operatorname{CA} A G G G A A A A A A A C \subset C C A A G G A A G G A A A A G G A A A A G B$ AACCGGAACCAAAAGGAAAACCAAGGAAGGGGAAAAAAAAGG A A G G A A A A G G A A A A G G G GAAGGAAGGAAGGGGAAAACAAAAA $G G C C A A A A G G G G A A A A A A A A G G G G A A A A A A G G C C A A A A C C A A$ C C G G A A C C A A A A G G A A G G A A G G G G G G C C G G G G A A G G G G G G C C G GAAAAGGGGGGGGAAAAGGAAGGAAGGAACCGGCCGGAAGA G G G G A A A A A A G G G G G G G G G G C C G G G G C C G G A A G G G G A A G G G G A A G G A A G G G G A A A A A A A A G G G G G G G G G G A A C C A A G GAA G G A A $G G A A G G A A A A A A A A G G A A G G A A A A A A G G C C G G A A A A A A G G G G$
 A A A A G GAAAAA AAAGGAAAACCGGCCAGCCAAAAGGACAGCC
 A A A A GA $A \operatorname{GA} A G G C C A A A G A A A G G G A G G G G A G G G G A G G G A A G G$ A G GAGAGGGAAAGAGACAGAGGGAAACCAGGGGGAAGGAAGG A G G G GAGGGGGAGGGGAGAAGGAAAAGAAGAGAAAAAAAACC A A A G A G A G A G G G G GAGACAAAAAAACGGCCGGGGAAA
A G G G G A A A A A A GAGAAAGAAGGGAGGGAAAAACAGGAGAAA CACCGAGGGGAAGGCCGACAGGAAAAAAAAAGAAAAAGAGAA G G A A G G C C G G A A A G A A G G G G G G A G G G G G A A A A A A A A A A A G G A A A A G G GA $\operatorname{A} G A A G G G C A G G A A A G G G A G G A A A A G G G G A G A G G C C$ AAAAGGAGACACACGAGGAAGGGGGAGGCCAAAAGGGAAAGG AAAACCAGAGAAACGAGGGGGGAACAACGAGGAGGAGAAAGG AA $A G G G A A A G C C A G G G A G A G A G G G A G A G A A A A G G G G G G A G A A$ C C G A A A G G G G A C G G A A A GA GA GAC G GAGGAAA G G T T G G G G A A
 A G GACCAACCAAAAGGGGAGAGACGGGACCCCGGAAGAAAAG A A A G G G A A G G G G G A A G A T A A G G A G G G A A G G G A A A G G G G G G T T $A G G G G A C C G G G G A A G G A G G G A G A A G G A G G A G A A G G A G G G G G G$ ACAGAAAACAGGAAGGGGGGAAAAGGGACCCCGAGGAGAGAG G GCCGGAGGGAGAGACAGCCAGAGGAAAGGGGGAAAGGAGAA C C G G A A A A A A G GCCGGCCGAGCAGGGGAAAAGAGGGAGAA GA A G G GAGGAACGGAAGGGAAAAAAAGGGGAGGAAAAGGACCBG A GAAAAAAAGGAAGGGAAAGAGGGGAGGGGAAGGGGAATAAG A G G GAA $A \operatorname{GA} A G G A C G G G A A G G G G G A A G A A C A G G G G A G G G G G G$ A GAAAAGGAAAAAAAAAAGGGGAAAAACAAGGAGGGAAAACC $A G G G G G G G A C A A A G G C G A A G G A G A A G A A A C G A G G A A G A A A G G$ $G G A C C A A G A G A G G G G G A A G A G G G G G G G A A A G G G G G G A G A A A A$ A A A A A A A A $\mathcal{A} G G G G G A G G G A A A G A G G G G G A C G G G G G G G G C A A A$ AA $A G A A G G G G A A A A G A G G A G A G G A A A A G A G A G A G A A G A A G G G$ A GAA A G G G G G A GA GAAAAGGGGAAAAAGAAACAGCCAAAGEG AAAAAGCAAGAAGCGGCAGAAGAAGGGGCCGGCAGAGGGGGG A GAGACAGCCAGGGCAGGGGGAAGGGAAAAGGGGCCAATTCC G G G G G G A G A A A A A A A A A G A A G G G A T T A A GA G G G G G G G GAAAC TTCCAGGAAGGGAAGGGGGGAAAAACGAGAGACAGGAAAAAA

AAAACCAAGGCCGGAGGACCAGAAAGGGGGCCGAGGGGAGAA G GAAAA A $A \operatorname{AGGAAAAGGAGAAGGGAAAGGAAGAGAGAACACAA}$ $C \subset A C A G A G G G G G G G C A A G A A G C A G A A G A A G A A A A A G G A G G G G$ G GAAAAGAGGGGGGAAAGAGAGTAAGCCAGGAGGGGGAGAAA CAGGAACCAAGGCAGGAAAAGGAGAACCGAAGCGACCACCAAA C C A A A A A G CAA A CACA $A \operatorname{AGGGGGAGAAAAAAGGGAAGABACBG}$ A CAG G A G G T T A A A A G G GAGGGGACCCGGAGGAAGGGGA G GAA G G G GAGGAGGGGGGGAAAAAAGAAGGGGGGGGCCAAAGAGAA A G G A A GCCAAAAGGGGGAAAAAAGGGGGACAGAAAGAAACBG $C \subset A A A A A G G A A C C C A G A A A A C C G A A A G G A A A A A A C C G G A A G G$
 G G G G A A A A A A G A G G G G A A A A G G A A A A GAGGGGAA G G G G GA G A GAAAGACCAACCAAGGAAGGGGAAGGAGGGAAGAGGAAAAAA A GAA A G G G G GAAAGGGGAC CAAAAGGGAAGGAAAGGAA GAAA $C C G A G G A A C C G G A A C C G G C C G G A A A A A A A A G G G G G G G G A A G G$ A A A A A A A A G GCCAAGGAAGGGAAGGGCCGGGAAAAGAAAGAA G G A A G G A A A A A G G A G G G G G G A A A A $\mathcal{A} G A G A A G G G A G G G G G G G G$ G G A A A A GACAA $\mathcal{A} G \mathrm{G} G \mathrm{G}$ GAAGGCAGGAAGGAAAGAGAGAAGGGG GACCAAAGAGAAGGAAAGAAGAGAGGCCGGAAGAAACGAGAA G GAA $A \operatorname{GAA} A G C C A A C C C C G A G A G G G G G G A A G A G A A G A A G G G G$ AACAGGCAAGGGGGAAAGAGGGAAGAAGAAGGCCGGAGGGGG A G A A G G A G A A A G G A G A G A G G G G G G G G G G G G G G T T A A A G C C C C A GCCGAGAAACCGAAAGGGGGGAAGAAGGAAAAAGGAAGGAA G G G G A A G G A A A G G G A A G G G G C G G G G G A A A A G G G G C C G G C C G G G G G G G GAA $A \operatorname{GGG} \operatorname{GA} A \mathrm{~A} G A A C A G G A A A G A A A A A A G G G G A A A A G G$ AAAAGGGGCCAAAAAGAGGGCAAGAGAAAGCCGGAAGCAGAG A G G G G G G GAAA A A A A A A A G GAA A GAA G G G GCGGAA GA G C CA A G GAACCAGGAAAGGGAAAGGTTAAAAAAAGAGGGAGGGAGAG GAGGGAGGAACCGAGGGGAAAAAGAAAGAAAAAAATACGAGG A GAACCAAAAAAGGGAAAAAGGCCGAAACCGAAGCCACGGAG CA $\operatorname{A} G A A G G G G G A A G A G C C A A G G A G A G A A G A G A A A C C G G A C G A$ GAAGGGGGGAAAGGGGGGGGAAAAAAAAAGCCCAGGAAAAGG C G G A A G A A G G G G G GAACGCCAAGGGGGGGGAGCCCCCCACAA A G G GCAGAAAGGCCAAAAAAGGAGATGGGGAAGGAGGACAAC $G G C C A G A A A C A G C A C G G G G A G G G G G G G A A A A A A A A G G G A G G G$ AACCCCAGGAAAAAAGGGGGAACCAAAGGGGGAAAACCAABAA G GAGCCAGAGAAAACCGGCCAACCAGGGGAGCGAAGCCAGAG A GAGAGGGGGAAGAAGGAAAGGGGCAGGGGAACCAAAAAAAG A G G GAGCAGAAAAGAAGAAGAAAAGGTTACAGAGCCCCGGAA A GAGAAAAGGGGAGCCAAGAAAAAGGAAAGGGAAGGGAGGAA A A G G G G G G G G G GA A A A A A A A GAAAAAAGGGGGAGGAAAA GAAG C C G G A A G G A G G G A G G G G A G G G G G G G G G G G G A A A A A A A A A G G A AAGAAGAGAAAAAGAAAAGGCCACGAGGGGACCAAAAAGAAC G GAG A G G A A A A A G G G G G G C A A A G G C A A A G A A G GA G G G G G G A A A ACC GAA $\mathcal{A} A A C C G G A G C C G A A A G G G A G G C A G G A A C C G G G G G G$ $A A C C A A G A A G G G A G G G A G G G G A G G G A A A C G C C B A A G G G A G A A$ AAAAAGAAGAGGGGGGAGAAAACCGGAACAAAAAGGTTAAGA GAAGAGGGACACGGAAAAAAGGAAAAGAAGGAAGAAAGAAAA GAAGAGAAAAAACAAAAAAAGGCCGAAAGGCCGAAAGAAAGG C C C A A C G GAGAGGGCGGGAAAAACAAAGAGAACCAAAACAAA A G A A A A A G G G A G G A C C G A GAGGGAGAGGAAGGGGGGAAACAA A GCCAAAAAAGGGAGAGGCAAAGGGGAAAAGGCAGAAAGGAC GAAAGGAAAAGGAAGGAACCGGGAGGAAAGGAGGAAAAGGCC ACAAAAAAGGGAGAGGAAAAAAGACCGGGGCCAGAAAGGGAA G G GAA A G GAAGGGGAGCAACAAAGGGAAGAGAAGAGAAGGAC A A G G A A A A C C A G A GCCAAGGCCGGCCAAGGGGGGGGAAAAAA
 $G G G G A A C C G A G G G G G G A A G G G G A G A G G A A A G G A G C A B A A A G A$ $A A G G A A G G G G G A G G C A A G A G A A A A G G G G G G G G G A G A G G G G G A$

G GAAAGGGGGAGAGGGAGGGGAGAGATAAGACGGAGAAGAAA G G G A A A A G G G A A G G G G G GCCGGGGGGGACCGGGGA GAA G G C C
 G GAA A GAACCGGGGAAAAGGAATAAGAGAGAAA GGGGGGGGG ACCAGAGGGGGGCCAAAAACAGAAGGAAGGAAGAAGAGAC GA A A A G G G G G G G G G G G A A C C G G A A A A A A A A A A G G G GAAAA $A \operatorname{A} G G$ C C A A G G A A G G G GC C A A G G G G G G A A G G G G G G G G A A A A A A G G C C $G G C C A A G G G G A A A G A A G G A A A A C C A A C G G A G G A G C C A A A A G G$
 AAGGGGCCGGGGGGAAGGAACCAAGGGAGGAAGAAGGGAAAG A GAAA A A G G GA GAA A ATTAAAAGGAAAAAATAA GAGGGAGAA G G G G G GC C A G G G G G A G G G G G A A G G G G A A C C G G G G G G A A G G A T A CAA $A \operatorname{AGG} \operatorname{G} A \subset G A G G C \subset A G G G A A G G G G G A A G G G A A A A A A A A A A$ GAAGGAAAGGAAGGGCAAAGGACAGGAGGGATGAAACAAAGAG
 GACCAGGGAAAAAAGGAGAACGGAAAGGACGGCACAGAGGGG GAAAAAAAAAGGGGAAGGAGAGAAAAGAGGAGAGAGGGGGGG A A G G G G A A G G A A A A T T C A G G G G G G G G C C G G A A A A A A CA GA G A G G G G G G G G G G G G GAAC GAGGGACCAAGGAAGAGGAACA G GAA A A A A GACCGGCCAGGAGGGGAAGGAGAAAAAAAGAGAGAGGA A GAAGGAAAACCCCGGGAGGGGGAGGCAAAGGAACCAAATAA
 G GAGGGGGCAAGAAGGGGAAAGAGGCGGGGAAAAAACCAGAA A A G G A G G G A A G A G A A A A A G G G G A A A A G G G G CAC CACAAA A A A A G G A C A G G G G G G G A A A A G G G G G A G G G A A G GCC G G A A A A G G C A G G G G G G A G A A A A T T A A G G G G A G G G T T G G A C A A A A G G G G G G C C AAGGAGGGAAGGAAGAGACCGGCAAGAAAAGGAGGGGAGAAA
 G G G G G A G A G G G A G A A A G G G GAA $A \operatorname{GAA} A A A C C A A A A G G C G G A G G$ GGGGCCAAGGGAAAAAGGACAGAAAAGGGAAACAAAAGACCA G G A A C C C C A A A A A A G G G G G G G C C A A G G A G GC C A A G G C
A A C G G A G A A A A A G G G G G G G C C G G G G G G A A A A A A G G G G G G C C

 A A GACCGAGAAAGGAGAGGGGAAGGAAAAAGGAACAGACCBG A G G G G G C C A A G G A A G G A A A A A A G A G G A G A A A GAACAA A A A G G A A G GAAAAGAGGAAAAAGGAAAAGGGGGGGCCGGAAAAAGAA GAAAGGAACCGGAGGAAGAGGGGAAAACGGGGCGAAAAAGAA

 $G G C C A A C C A A G G A A G G C C A A G G A G G G G G G G A G G B A A G G G G G G$ GAAGAAAGGCGGGAAAGGAAAACCGAAGGGGGGGGGCCAGGG A GAGGAGGGGAGAAAAAAGGGGACGAGAAAAAGGGGAAAGAG
 A G G A A GAACCGGAGCAGGGGGGAAGGACAAAACCCCGAGGAA G G G G G GA G A A A GAA A A GAGGAAAAGGAGAAAACACACCAACAC G G A A G G A A A A G G G G A C C A G A A A GAGGGGAA GAAACCCACA G G


 A A G G G G A A G G G GA G G G A A G A G A A GAGAAAGAAAAAAGG G GAA C C TAA A G G G G GAACACGGGAAAAACCAAAAAGAGAAAGAAAA G A A G A A A G G A G G G G A A A A G A A A G G G G A T T T A G C G G G G G C C G G G GAAAGCCAAAAAACCGGACGGAAGGAACCAAGGAAGGGGCC GAGAAACAAGAAACAGAAAAAGGACCAGACGAAAGAAAGAAG ACGGAAGGAAGGGACCGAACAAGGAAAAAGAGGGAAAAGGTT G GAACCAAAGAAAAAAAGAAAAAAGGAAGGGAAAACAA GAAA G G G A G G G G G G G A G G GA C A G A A C A A A A GA GAGGGGGGGG GAAA AA GAAAAAAACAAAGGCCAAAAGGAAAAAAACGGAAGGAGGG
$C \subset G G G G A G A A A A A T G G A G A C A A G G G G A A A A C A C C G G A A A G A A$ A GCAAAAAAAAAGGAAAAAAGAGAGGGGGGAGACAGAGATXA A A A A A GA $A \subset C G G A A G G G G G G A A T T G A A C G G G A G G G G G G A G A A$ GAGAGGAAGGAAACGAAGCCGAGGCCGAAGAAGAGGGCGAGG G G GAGGAAAAGAGGCGTAGGAAAAGGAAAGAGAAGAAAGGGG AAAAGAACAGGGAAAGGGCCAGAGAAGGAGAACAGAGAAGAA A GAGCCACGGAAGGGAAAAACCAGAAGGAAACGCGGGAAAGG A A A A A A A A A A A A A A A A GAGAGAAAGGGGGGGGGGAAAAGGGG $T T C C G G A A G G A A T T A A C C G G G G A C G A G G A G G A A G G G A A A A G A$ CAAGAAAGGAGGAGAAGGAACCGGAAAACCGAGGGGGCAAAA G G G GAAAAGGCAAGAGGAAGAAGGGGGAAGGGGCAAGAAAAAA
 A G G G A A G G A G G A A A G G G G A A A A G G G G G GAAC CAAACCA GAGAC $A G C A G C G A C C A G A G A A G A G G C G G G C C A A A G G G G A G A A G A G A G$ $A C A C G A C C A G G A G A A C G G G A A A G G G G G G G G G G C C A A G G G G A A$ GAGGCAGGAAAAAAAGGGACACGAGAGGGGAAAGGGCCAAAA A A GAGAAAAAGGGAGACAGAGAGGCCGGAAAGAAAAGGAAAA CA $A$ A A A G G G G A A A C A G A C G G G G G A G G A G G G A G G G G G C C G G A A G G GCAGGGAGAAGAAGGGACCACCGGCCAAGGAAGGAAAGAG A A G G G G A A G G A A GAAGAATACCCCGAAAACAAGGAGAAAAAA AAAGAAAAGGGGGGAAAAAAACCCGGGGGGCCAAAAGCAAGG C CAGAGGGAAAAGGAACCAAGGCCAAGGAAGGGGGGAAACAG A A G G A A A G GAGGGGAGAGAACCGGAGGGAAGAGAAAAAGGCG G A A A A A G G A A A A A TAAA $A \operatorname{AGGGAAGAAGATTAAAAAAGACCCA}$ AA GAAAGGAACCGACCAAAAAGGGGGAAAGAAAAAGGAACBG A GAGCAATGGAAGGGGAAGGAAAAGGGAGGAACAAAGG GATT AACCAACCAAAAAAGGAGAGAAGGGGAAAAAGAAAACCAGGG CAGAAGGGAGAAAGAGACAGGGAAGGGGAAGAAAAGCCAGCA A A G G G GAA A G G GAAACAGAAACAAAAGAGAGCAAAGGBAAAA GGTAAAGAGACACATAAAAAGAGGAAGAAACACCCAAGAGAA G G A A C A A A GAAACACACCCAGGCCGGGAAGGATTAAAAGGGA AAAAGGAGAAGAGGAAAAGGCCCCGGGGAGAGGGAAAAAAGG G G G GCCAAAAGGAAAACAGCGGAGGGACACAAGGGGCCGGGG G G A A A A G G G GCCGGGGGGAAAAAAGGGGGGAAAAAAAAAAAA A A G G A A A A C CAACCGGGGCCAAGGGGTTAAAACC GAGBAGCC G G G G G GACCCAGAGAAGGAAAAAAGGAACAAGGAGAAAGGAA A G GAGAAGACGGAAAAGGAAAGGGAAGGGGGAGGGAAAAGGG $C \subset G G G G G G A A A A A G A A G G A A A A G A G G C C C A G G A A A G A A G G G G$ G GAAAAAGGAAGAGAACCGGGGGGGAAGGGGGAAGGAGAAAA CAAAAAAGGGAACACCGGAAGGAAAGAGGGAGAAGACAAGBG AAGGCCGAGGACAGGGCACCCACCGGGGGAGGGAAGAAAGAC G G G GCAA $\mathrm{C} A \mathrm{~A} A \subset \mathrm{~A} A \mathrm{~A} G \mathrm{~A} A A A A G G G G A A G A A A A A G G C C G G G G G G$ AAGAGAGACGCACCGGAGCCGGGGAGGAGGAAAAAGAAACAG G GAAAAAAAGAAAAAAAACAGAAGGAGGGGAACA GAA GAAAA $G G A A A C G G G G A C A G G G A C G A A A G G G G A C A A G G C C A G G A G G G A$ ACAAGGAAACAGAAGGAGGGGGAAGGTTCCAAGGAAAACAAA GAGAAAGGAGAAAAGACCAAGGGGAAAAGACCGGGGGGAAAA G G G G G A A CAAACGGGGGAGGGGGGGGAAAACCCCAAGAAAGA GAAGAAGGAGAGAGAAGGCAGGAAAGGGGCAAGGGAGGAGAG G GCCAAGGGGAAGGCCAAAACGAAAAACGAGACCAGAGGGGA GACCGAGAGAACACGGAACCAAGGGGAAGGGGGAGAGAAGAA GAAGAGAGCCGGAAAAGGAAGAAGACAGCCAGGAGGAGAACA G GAAAAAAGGGAAAGAGGGGAAAAAGAAGGGGGGAAAAAAAA GAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGGGGAAAAGAG A G GAA A A A G G G G G GCGCAAGCCAGCAAGGAGGAGGGCCCCGG AAAAGGGGAACCGGAAAGCCAAGGAAACAGAGGAGGGAAAAA A G G G A GAAAAAAGGAAGACAAAGGGGCCGGGAGGCCCCGGGA $A C A A A G A A A A A G A C G G C C A A G G G A A G G G A C G A G A A A G G A A A G$ $C \subset A A G G A G A A A A A A A A A G A G G G G G A A G A C A A G C A G A A A G G A A$

A A G G A A G G A A A A G G G G G G G GCCAAGGGGCCAAAAAACCAAAA C C C C C CTTAA C C C CAAAAAAAAAACCAAGGAGGGGCAAAA G GAA $A \operatorname{GA} A A A G G A G G A G C G A A G A G A G A A G G A C G A G G A A A G A A$ AAGGCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAAGAG
 C CAGGGAAAAGGGAAAAGGGAAAAAAAAGAAAAGAAAAGGAG
 A GAGAAGGGAAGAAAAAAAGGAGGCCGGGGGGCCCCGGGGGG A A G G G G A A G GCC C G G G G G G G G G G G A A A A A A G G A A A A A A C C A A A A G GCCGGAAGGAAGGAGAGGGGGCAAGTTAGAAAAAAAAGA A G GAGAAAAAAACCAGAGGGGACAAAGGGAAGCCAGAAAAAG G GACAGGGGAAAAAAACCGGGGAGGAAGTAGAAAGAAAAA GA CAAACCAGAGGAGAGAAGAAAAGGAAGGGGGAAGGAGAAGAA C CAA $A \operatorname{GA} G G G A A G G G A A A A G A A G G A A G A C G A A G G G G A G G G G A$ G GAGCCGAACAAGGAAAAAAAAAAGGGGGGCCCCAAGGAAAA G G G G G GCC G G G G G G G G G G G G G G G G A A A A CA A A G GAACAAA G G G G G GCCGGGGGGCCGGAAAAAAGGAAGGAAGGACGAGAAAGA T TAAAACCCCGGGGAGGGAAGGACACAAAAAACCAAGAATAA AAAAAAGGGAAAAAGGAAAAGGGAGCGAGGGGAAAGAGAGAG G G G G T T C A C G G G G G G G A A C A A G G G C C G G A GA $\mathcal{A} A A G G G G A A A G$
 CAA A A G G G G G G A A G G G G GAGAGGAGGAGATACAGGAAAGAAA G G G A G A A G A A G G G G G G G GAGAAACAGCACCGGCAAAAAGGAA A A G G A A G GCCCCGGGGGGAACCGACATTACGGCCGGAGAAAA AACAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A A A A A G G G G G G G A C A A A A G A A G G A$ AACCGGAAGGGGAAAACCAAAAGGAAGAGAAAGGGGGGGGAA GAAAACAGCCAAATGAAAAAAACCGAGAAAGGAAGGAGGAGA A A A A ACAAAAAAGGCCGAGAAACCAGGAAAACAAAAAGAGAG GAAACACAAAAACAAAAAAGAGGAGAAAGGAAGGAAAAGGCC GAGGAGCCAAGGGAAAGGGGGCAAGGGGAAAGGGGAAAAGGG $C G C C G G A A A A A A G G G G G G A G A A G G G A G G G G A C C A G A G$
G G GAAACAAGGGGAAGGGGCCGAGGAAGGGATAACGGGGGG AA GAAAAGAAAAGGAGAAAAAGACAAAGGAAAGACCGAAAGG A GAAAAAAGGAGGGAAATCCGAAGGAAGAATTAAAAGBAACC A A A A A A A A $\mathcal{A} G G G A A G G A G G G C A G G G G A A G G C A A A A A A A G G G G$ C CAA $A \operatorname{GGG} \mathrm{G} C \mathrm{G} A \mathrm{~A} A C A A A A A G G A G A A G G C C A G A A A G A C A G G C$ G G GAAAAGAAAAAACCAAAGAAAAGAGGAGAACCGGGCGGCC $C A C C C C C C G G A A G G A C G A G G A G A G A G A A A A A C C C A A A A G G G G$ G GCC $C$ GAAAAAGGGGAAGGAGGCAAGGGGATAGGGGGAACAAG
 G G GAGAAAAGGAAGGGGGAATTGGAAAAGGAAGGGGGGACAA G G GAA A GCAAAGAGGGAGGGAGCCCCAAGGAAGGAAGGCCGG CCGGGGACGGAACAAGGAAAAAGGGAGAAAGAAAAAGAGGGG $A C A G A A G G G G G G G G G G A G G A G G G G G G G A G C G G G G C A A A A G G G$ ACGGCAGAGGAAAAAGAAAAAAGGGCGGAGGGAAGAGAAGAA G GAA A GA GAGCCGGAAAGACACGGACACGGGGAGACGGGGCA G GCAAACCGAGGGGGGCGCAGGCCAGAAAGAAAGGGAAAAAG AAAAACGGGGCCAAAAGGGGGAGGACGGGGAAAACCAAAGAC ACAAAAAAGGAAAAAGCCAGGGGGAAAACCGGGAAGGGAAGA $A G C C G G A A A A A A A G G A A G G G C C G G G A G A G G A A A A A G A G A A G G$ AAAGAGCCGAAGAAAAAAGAAGAGGGGGGGAACCGGGGAAAA A A A A A G G G A A A A G G GAAC G G G G C C GAG GAA A G G G G G G G A G G G A A A A G G G G G G A GAAA A A G A A A GAC GAAACAGAGAGAGAGAAGG G G G G A A A G G G G G GAA A A A GAGAAAAAGGCACCAGAAGACGGG G GAACCAAAAGGGGCCGGGGAAGGAAGGGGAAAAGGGGAGAA
 AAGGGGAAGGGGGGAAGGAACCGGCCAAAACCAAGGAAGGAA A A G G A A A A A A A A A A A A A A A A G GTTAAGGAAGGAAAAG GAAAA $C \subset G G G G G G A A A A G G G G G G A A G G A A G G G G A A G G A A G G G G G G A A$

AAGGCCAAGGGGAAGGAAAAAAGGCCAAAAAAAAGGAAGGCC A A A A G G G GCCAAAAAAGGAAAAGGAAAAAAAAAAAAGGGGTT G G G G G GAA A GAATTAACCGGGGAAAAAAAAGGGGAAAA G GAAA $C \subset G G G G G G G A G G G G G A G G C C C C G G A A C A G A A A C C G G A A A A G G$ AAGGCCAACCAACCAGAACAGGCATTGAAGACGAGGACAGGG G G A A G A A G A G A G G G G G A G G GACAGCAGGGGAAAAAAG GAAAA AACAGGAACCGGAAGGAAGGAGAGGGAAAACCAAGGGAGGAG G G GAAAGGGGGAAGGAGAAAAAAAAACCAAAAGGGGAAAGAA A A G G A A G A G A G A A A G G A G A A A A A G A G G G G A A A G G G A A A G G A G $G G T T G A A G A G A G G G G A G G A A G G A A A G A G G A A G A A G A G G A G A A$ AAGGAAGACGCCAGAGAAAAGAGGCCCCGGAAGAAAAAAAGG A A A A A A A A G G G G A A G G A A G A G A A A $\mathcal{A} G G G G G G G A A A G G A A C A G$ G GAACAGAGGGGAGAGGAAGAGAAGAGGGAAAGGCAAGAACA TAATGGAGCCACCAGGGGAAGGGGAAAACCGGAAAACCAAGBG AAGGGGGGCCGGAACCAACCGGGGGGAAAAGGAAAAAAAAGG GGAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAGA G G A A G G G G A A A A G G G G G G A A A A G G G GACAGGGAAAAAA A $A$ A A $G$ A A G G G G G G A A A A A A A A G G G G G G G G A A A A G G G G A A A A C C C C A A GGGGAAAACCGGCCCCGGAAAAGAAAAAAAAACAABAAGGGG
 GACCGGAAGGGAGGGGAGAGAAGGAGAAAACCGGGGAGAGGG G G GAGGGGAACAAATACCAGAAAAGAGAGACATTGGGGAAGA G G G G G A G G A A A A A A A ACAGGCCGGCCAGAGCCAACCAACAAA A A G A G G A A G G G G A A A G G G G A A GAGAGAATTAGACCAAAAAA A C C G A A A A A A G G GA T G G A CA $A \operatorname{GAAAAGGGGAAGGGGTTCCAGAA}$ A A G GAA A G GAA A A G G CAAGGCCCCAACCGGGGGGAAAAGGGA CAAAAGAAGGGGAAAAAACCAGCCGGAAGAAAAAGGAAGAAA T TAAA A G GCAGGACAAAAAAAGACAAAGAAAGGGAAGCCCGG A T GAA A A A GAA $A \subset C G G G G G G G G A G G A G G G G A C A A C A G A G G A A$ AAGAAAGGAAGAAAAAAAAAGAAAAAGAGGAGACGAAAGGAA GACCAGCAGGGGGGAAAAGGACGAAGTACAGGCCAAGAAAAA AAAAAACCGGAAAAAAAAAGAGAGGGAAGGCCAAGGCCCCGA G GAAAAAACCAAAGGGAAAAGAAAAAGGGAGGGAAGGAAAAA
 GAGGAAGGAGACGGCCGGGGCAAGAAGGGAAAAAAAAGAGAA G GAAAAACGGCCAAAACCCCCCGGACACAGCCGGGGAAGAAA G GCCAGGAGGAAAAAGAGGGGAGGGGGGAAGGAGGACCGGGA A G G G GAAAAACCGAAAAAGGAAGAAGCAGGAGGGGGAGAAGAA A G G G A A A A A $\mathcal{A} G G G G C \subset A A G G A A G G G G A G G G G G G A A G A A G G G G$ A A G G G A A A C G A GAGGGGGGGGAAGAGCAGGAAAGAAAAAA G $A$ AAAAGGACCGAGAGGGAGAGACGGGGGGCAAAAACCTTAAGG G G A A C C A A G G A A G A G G A GAGTAGGAAAAGGAAAGAGGAAA G G A G GAGAGGAAAAGGAAAAGAAGACGAAGCAAAAGGGAGCCGG GAAGGAAAGGGGGGGAAGAGAAGGAGAAAACCGGAGGAGABA $G G A A G A G A G A A A G G G G A A A A A A G G A A G G G A A G A A A A G G A C A G$ A A A G A A G G A A G A A G GAGAGGGGAAAGGAC GCCGGGGAGAGAA GAGAGGGGACAAGAGGGGGAGAGAGGGGAAATCCGAGAGGAG GAAAAACCGGGGGGAAAGAGAGAAGGAAGGAAGAAAGGAGAA G GCCGAAGAAGAGAGAGAGAAGCCAGAAAAGGGACAGAAAAC G GAG $A \operatorname{G}$ GAAGGGGAAAAGAAAGGGGCAAGAGAAAACCAAGGAA $A G G A A G G G G G A G A G G G A A G G A G A A G A A G A G G A G G A G C A G G G G$ A G GAGGAAAGGAAGCCGAAAAAAGTTAACCAGACGAAGAGAA A A A G A A G G G G G A A G G A A G G A C C G G G A C C A A C A A G A G A G A A G A G G GATAAAGGACAAGAGGAAGGGGGAGGAAAAAACCTTGAGG AAAAGACCAGAAGGAAAAGGCCACAGAGAGCAAGAAGCGGAC

 AC G A A A G G A A A A A G A G C C G G G G A C A A G G A A G G A G A G A G G G G A $A T A G A G G A G G A A A G G G A G G G A G C C C C A G A A A A G A A C A A G G A A$
$C \subset G G G G A A A G C C G A A G A A C C G G G A G A G G A A A C A A A A A A A C A A$
 GAAAAATXAAGGGGGGGAAAAGAAAAAAGAAGGABCGAGAGG G GAGCAGGAGAAGGAAAGCCAAGACCAAAACCAAAGCGGGGA G G G GAA $A \operatorname{GGGGAA} G G G A A A A A A A A A G G G G G C C G G G G A A G A A A$
 GAACGGAGAAAGGGGAAAGAAGGGAGGGAGGGGAAGACAGAA G G G G A A G A A G G A G G G G CACAGGGGGGGGGGGGGGAAGGACA G A GAGAGAAAAGGGGGAAGGGGAACAGAAGGAAGAAGAAAAAG AACCAGAGAGAAAAAACAGGAAAAGAGAAAGGGGCAGAAAGA G GAAAACAGAGGAACCAGGGAAGGGGAGGCGACGGGACAAGG
 $A G A G A A G A G G G G A A A G G G G G G A G G C C G G A A G A A A G G A G A A G G$ AAAGAGAGGGGGAAAAAAAAGGAAAGAACCAGAGAAACGAGA GAAGGAGGCAGGAAGGCCAGAAAAGGAAAACCCAAAAAAAGA GGAAGGCCCCGGAAAAAGAAGGCAGAAAAGGAGAGGAAAAAA G GAAACACAGAGGAAAAAAGAAGGGGAAAAAGACAAGGAGAA A A A A G G G G A A C A A A G G G GAAAAAAGAGGTTGGAA G GAAA GA G G $A G G G G G A G A G A A G G C A G G A A A G A G G G G G A A A A A G A A G A G G A A$ G G G G G G GAGGAAGACCCACCGGAAGGAAAAGAGAGGCCCCGG $C \subset G A A A G G A G A A A A A G A G G A A A A A G G C C A A A A G A A A C C A G A G$ G G G G G A G G G G G G G G G G C C G G A C G G A G G G G G G G G G A A G G G G A G AAAGAAAACCGGGGAGAAAAAGAACCGGGAGGAGAAAAGGGG A G G A A A A A A A A G G G A A A A A TAGAAGAGGAAAAGAAAAAAGA G A A A A A A GAA $A$ A $A$ GAA $A A A G A A G G G A A A G G G G G G A G A G A A G G A A$ G GAA $A \operatorname{G} G A G G C A G G G A A A G G G A A A A A G G A A A A A A C A A A A G G A$ A A A C G A A C A G G A GAGGGGGGGGGGAAGGCAAACC GACABACAC G GACGGGAGGGACCAAAAGGAAAGGAGGAACCAAACCCGGAG A A A A C C G G G G G A A GAAAGGGGAGGGGAGAAGAAAGGCAAGAA G G GCAAAATAAGAACGGGCACCAAAAGGGGAAGGGGAACCGG A A A C G G A A A A G G A G G G G G A G A GAGACACCCACAGGGA
AAAGGAAAGACAAGGGGAAGGAAAAAAGGAGGGCAGGGGGG
 A A A G A A G G G G G GAAAA A $A \operatorname{AGGGGAACCGGGAAAGAGAAAGGAA}$
 AAGAAAGAAAAAGGAAGGACCCAGAGAGGGAAGACCGAAAGAG A GAGAGAAAACCGAACAGGGTAAGAGAGACGAAAAACCAAGAA G G G GA $\operatorname{G} A A \operatorname{A} A A G G A G A G G G G A A A G G G G G A A A A A A G G G G A A G A$ G G G GAA $A \operatorname{A} A A A A A A C A A A A A A A G G G G G G A A G A A G G G A A C C G G$ G G A A C C G G G G A A A G A A GAGGAGGGGGGGAGCCAAGAA GAACC AGGGGAAAGACCAAAAAGCCAAAAAGAAGGGGAAAGCCAAGBG A A A A G GAA A G A G G G G G A A A GAA A GAAAAAAGGAAA G G G CA A A A AGGGGGGGGAAAAAAAAACCGGCCGGAAAAAAGAGGGGGACC A G GAGGGGTTAGCCGGAAAAGGGAAAGGAACCAAAAGAAGAG G G G G A A A A G G A G A A G G G CAGCAACAAAAAAGGGGAAGGCCGG GAGAAAAAGGAAGAGGGGAAAAGGGAAGGAAGCCCAGAAAAG G G G GAAGGAAAAAGAGAGCAAAAGCCGGAAAAGAGAGGAAAA GGCCAAAGGGAAAAAAAAGGGAAAAGAAAAAGGGGGGGAAGAA GGCCGGGGGAAGACAGAGAAAAAAAAGGCCAAGGAAAAAGAA CACAAGGGAAGAAAAAAAAAGGTTGGGGAACCGGGGGAGAGA AAAAGAGGGGAAAAAAGGAGAAGAAAAAAAAGCCBGAAGGGG AA $A G G A A A G G A A A A A A G G C A A A G G G G G G G G A A A G A A G G A C A A$ $A C C C A C G C G G G A A A A A C A G G A A A A A A G G A G A G A T A A C C B A A A$ $G G C C A A A A G G G G G G A A A G G G G G G G G G A A A A A A G G G G G G A G A A$ G G G G G G A A A A A A G G A G G G G G A A G A GAAA A G G G G G G G G G T TA A CCAACAAAAACCGGGGAAGGGGAGAAGGAGAGCCAGACAAAG ACAGGGGGAGAGAGAGAAAAAAAGCAAACAAAAGGAAAAGGG GAGGGGGAAGAACCGGAAGGACAGAAAAGGAAGAAGAGAAAA $A G C C A A G G G G A A A A A A A A A A G G C C A G A G G A A A A A G G C C G G A A$

C C G A A A A A A A A TAGCAGGGGGACCCAGGGGCCCCAACCAAGG A A G G G G G A A A G GAA A G G GAAGCAAGAAAGATTCCGGAAGAAA A A A A A A G GAGAGGGCCCAGAGGACGGAAAAAAGAAGGACACC C C GAGAGAACAGAGAGAAAGCCAAAAAAGAACGGAAGGGGTA AAAGAGAGAGGAGGAGGGAACAAAAACAGGAGAAGGCAAAGA G G G G G GA $\operatorname{G}$ GAGAGGAGAACCAAGGCAAAAAAACAGGGBCAC G A GAA A G G G A A G G G GAA A A A GAGAAGGGGAGAGAGGGAA GA GA GGAAAAAGCCAAAAGGGGATAGCCAAAGGAAACCCCGGAAAA A G C C A G G A C A A A G G C C C C A G G G C A C C A G C C C C G G G G A A G G G A GAGAGGGGGGGAGGGGGGGGGGTTGAGGGGAAGGCAGAAAAA G GAGCAAGAAGGAGGAGGAAAAAGGGGGAAGGAAGGGAGACA G G G G A A A A G G A GAA $A \operatorname{G} G A G A A A A G A A G G G G A G G C A G A G G G G G A$ C C G GCCGGAAAAAACCCCGGGGGGAAGCAGAGGGAACAAGGG G G G G A G G G G G A A A A A A A A G G G G A GAGAAA $A$ A A G G A G G A A G G A A AAAGCCAGAAGGGGAAGGAAGGGGGGAACCGGAAAGAGGAGG AAAACCCGGGAATTGGAGGAAGAAGGGGGGAAAAGAAA G GAAA A GAGACAGAAAGGGAAGGGGAAAGAAGAGGGGGGGGAAGGAA A G G A A G G G G G A A G G A A G G G A G G C C A A G G G A A A G G A G GAC CA $G G C A C C G G G G A A A G A C A G A A C C A A G A A G A A A A G A A C A A A A G B$ A A G G A A G G G G A A G G C C G G C C G G C C A A A G A GAAA A A C G G A G G A AAGACAGAGGGGGGGGAGGGAAGGAGGGGGAGAACAAGGGGG G G G G G G G A G A A A G G G G A A G G G G A A A A G G A A A G G A C C G G G G G G G G G A A C G A C A G G G G G C A G A A A C A A A A G GACAA G GA G G G G G A G GAAGGACCAGAACCGGGGTAAAAACCGGGGAAGGAAGGCCAA G GGGCCGGAAAAAAAAAAGGGAGAAGAAAGCAGAAGGGABAA GAAACCAAAAGGAAAGGAGGAAAAAAAAGGACGGGGGGAGAG GGCCAACCAACCGGAAAAAAGGGGGGGGAAAACCGGAGAGAAA A A G G G G A A A GAGCCAGGGGGGGGGGGCCCAGGAACCAAGAAG AAATAGCCGGGGGGAAAAAAAGACAGAGAAAGACCAAAAAAA G G G G G GAA A A A A A GAACCAGGGACAAGGAAAGAAAAAAAACC G G G G G G A G A G A A G G G A G G G G A A G G C C G A A G A G A A G G G A A A G A GAAAGACCAAGAGAAAAAAAAAAGGGGGGGAAAGAGAACCAA
 G G A A A A G A C C G G G G A A G G G G G A C GACAAC CAAA A A G C GA GA G A ACC GACAGAGAGGGAAAGGGAAGAGAGACTTAAAAGAGAAA A G A G G GA G A A G A A A A A A G G A A GA G GAAA A A G G G GA G G C G G G G A A G GAAACCAAGGGGGGAAAAGGGAAAGAGAAGAAAGGGGAGG G G GAGAGAAGCCACAAGGGGCCAAAAGAGGGGGGAAAAAAAC GAAGGGAAAAGAAGGGGGAGAGACGAACGGAAGGCCAGAABA A GAGACACAGAGAGAAACGGAAGAAGGGAAGGCCAAAAAAGB A GACGGAAGGGAACAGAGAGACAAGGAGAAGGGGGAGAAAAA
 GAGGGGAACCAAGGGGGGAAAGAGGAGAGAAGGAAGAAAAAA GAAAAAAAAGACAACAAGGGGGGGGACAGGGGGGGGAAAGAG
 A A G G A A GAAA $A \operatorname{A}$ GAAAAGGAGGGCCGGAAAAAGGGAAAAAAAG
 A A A A A GAA $A \operatorname{A} A G G G C C G A G G G G A G G A G G G G G A A A A A G G G G G A$ G G G GAAAAAAGAGAGACCAGGAGGACGAGGGGGGGGAGAAAAA AAAAAAGGCAGGAAGGCAAAAAAAAAAAAAGGAGAAGAAAAG G GCCGGAGAAGAAGAGGGAGAAGGGAAAGGGGGAGAAAAAGG A A A A A A G G GAAAAAGGAAAAAGGGCCGGAAGGAAAAAAGGAG $G G A A G G A A G G A A G G A A G G C A G G A G G A G G G A A A A A G A A G A A A G$ GACAAGAAAGGGGAGGGAAAAGAAAAAAAGCCCACCGGACAAA AAGGGGCCAAAAAAGGAAAAAAGGAAGGCCGGAAAAAAAACC A A G G A A CAA A A A G G GAGGGAAGGAGGAAGGAAGGAAAAAAAA G $G G G A A G G G G G G A A G G G G A A A A C C A A A A G G A A G G A A A A C C A A$ G GAAAGCCACCAAAGAAGGGGGAAAAAAGGAAGAGAAAAACC AAGGGGAGCCGGAACCGGAGCCAACCGAGGAGAAAAAGGGGG

GAAGAAAAGGGAGGAAAAGAAGCCAAGGGGAAAAAGAGAAGA A G A A A A A A G G T T G A G G G G G G A A A A G GAGGAGGAAAACAAAAA
 A GAGGAAGCCAACCAGAGACGGCCGGGGACAGAAAAAGAAAG G G G GAGTTGGAGCCGGAGAACCGGCACCAGAACCAGAGGAAA G GAA $A$ A A A G GAA $A \operatorname{A} A A C C G G G G A G C C A A G G A A G G A G A C G G G G$ AAAAAACCAAGGGGGGGGAACCAAAAAACCAAAAGGCCAGAA G G G GAAGGACGGGAAGGAGAGGAGGAAGAGGGAAGAAAABAG G G G G A G G G G G A A G G C A G A G G A G G G G A A G A C G G A A CAC CA G A A A A A A G GAA $A G G G A A G G A G A A A A A G G G G A G G A G G G A G A G A G A A$
 A A G GCCGGAAGAGGCCAAGGCCACGGGGGGAGGGGGGGGGGA G G G A C C G G A C A A G G G G A G G G G G G G A G A A GAGACCACAAAAA A G G A G A G A G G G G G A G G G A G G A A G G G GACCAAAA $A$ A A A A G G G G A A ACGGAAAGAAGGGGCCGAGGCAGAGGAAAAAAGGGGGAAAAC
 GAGAGGAGCAACGGGAAGGGGGGGCCGGGAAAGGCCAAGGGG A A GAGGAAAAGAAGGGACAGGAAGGAACAGGAGGAGAAGGAA AA $A G G G G G G G G A A G A G A A G G G G A A A G G A G G A A G A A A A A G G A A$
 AAGGTTGGAGTAAGGGAAAGAAAAGAGGGGGGAGAGGGAGAG A G G GAA $A \operatorname{GGGA} A G G G G G G A A G G G G A A A A A G A A A A A A C A G A C C$ ACAAAAGGAAACGGAAAAAGCCGGGGAAAAGGAAGGGAACAA A A G A A A A A A A A GCCAA GAGAAGGAAAGAAGAACCAACCAAAC A A G G A A G G G G G G A A A A G A A A A GAA A G A A G G G G G G CAAAAAA A GACACAACGAAGGGAGAGGAGGAACCGGGGGGGGAAAAAAAA
 A A G G G G G G A A A GCC C G G G A $\mathcal{C} G G G G G G A G A A A A A A A A G C A G A A A$ GAAGAAGACAAAAAAAACACGAGAGAAGGAAAGGAAAGAAGAG AAAAGGCAGGAAAGGACAGGGAGAAAAACAGGCCAGGGAGAT

$C G G G G A A G G A A A A A A G G G G G G G G A A A A A A G G G A A A C C A G G G$ AAACACAAGGCAACGGGACAAGGGGAAGGAAGGGGGGGGGGG
 AAAGAGAAGACAAACCAAGGAAAAAAGGAAACAGAAAAGAGG GAAAAAGGGGGGGAAAAAAAGAAAGGCCAAAGCCGGGGAACAC A A A A G GAA A G G G G GAAAAAAAA A A G G G G GAACCAAAAGGACAA

 $A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A G A A G G G G G G$ G G G G G G GAGGCCGGGGGGAGGAAGGGAACCGBAGAGAGCAGA A A G G A G G G A A A A A A A GCCAGGAGAAAAGCCGGAGGGA GAAAA AAGGAGGGGGGGGGGGAAACGACCAGGAAAAGACGGAGAATA A G G GCCAGGGGGGAAGGACCGAGAAGGGAGAGGAGGGAGACC A A G G G A G G G A G A A G A A G G A A A A A A A A GAAA A A C C C G A A G G G A CAGGACCCAGAGAAAGAGACGGAAGGGGAAGGAGGAAAAAAG AC G G A A C C G G G G G A C A A A A A A G G G A G A GA G C C G G G G G G G G C C ACGGGGGGAAAAAGCAGGCGAAAAGACAAGAGGAAAAGAA GA $C C G G A A A G G G G A A A G G A G G G A G C C A A A C A G G G G G G G G G A A G A$ A G G G A A G A G A G G G G G A A GACGGCCAAAAGGCAGAGGAACCCC G GACGAGAGGGAAGGAGGAGGGGGCCAAAACCGGGAAGAGCC AAAAACGGAAAACCAGAAGGAAAAAGGGGGACAAGAAAACAG A A C A G GCC G GCCCCCCAGCAGGGGGGAAGAGAAAAAAAAAAA AAAAAAGGGGCCAAGGCCAAGGAAAAAAGGAAGGAAAAGGAA C CAAAAAAAAGGAAAAGGAAGGAAGGGGGGAAAAAAAAAAAA G G A A G G A A A A G GAA A G G G G G A A G G G G A A A A G G G G A A A A A A A A C C T T G G A A A A G G G G A A G G G G G G C C A A A A G GAACCC C G G A A G G AAAAGGAACCCCGGGGGGAAAAAAGGGGAAAAGAAAGGGGGG $G G C C C C C C G G A A G G G G A A A A A A C C G G A A C C A A G G A A G G E G A A$

G GAAGGGGAAAAAAGGGGAAAAGGAAAAGGAAAAAAAAGAAA $A C G A G G A A A C G G G G G G A A G G G A A G A C G G A G A G A G A G A A A C B A$ A G A A G A G A A A G G G G A G G G G GAAACGGAAACGAAGGAAAAAAG G G G GAAAGAAATGAGGAAAGGAAAAGACGGCCAAAGGGAGGG GAAGAAGGCCAAGGACAAGGTTGGGAGGGGAAAACAAAGGAG A A G A A A G G G G A C G A GAA A G G G GCCGGAAACAAAAAAGGAGAA A A G G A A A A G G A G A G G A G A C A A A G G G G G G G G G G G G G A A G G G A A AAAAGGAAGACCGGAGAGGGGAGAGGAAGAGGGGGAAAGGGG A A G GCCGGGGCCAGGGAAAAAAAAGGAAGGAGGGAGAGAAGAG G G G GCCGGGGAAGGGGGGAAACGGGAAAAGGGAAGGAAAAAA GAGGGGAAGGACAAGAGGAAAAGGAAAAGGAAGAAAGGGGGG A A A A A G A A A G A GAATTCCGGTTGGCCCCAGCGGGAAGGAA GA AC G A A A A A G G G G G GAGCCAAAAAGCAAGAGAGGAAACCAGGG
 AAAACCGGGGAAAAAAAGAAAAGGAAAAGGGAACAACCCCCC G GAA $\operatorname{G}$ GAA $A$ GAA $\operatorname{A} A C C C A A G G A A A G G G A A A G G A T A A G A G C T T$ A A G GAA $A \operatorname{GAAAACCACAGAGAAGGAAGGTTAAAAAACCGGAA}$ A GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAAGAGAA GAAAGGGGGGGAGAGAAGAAGGAGAAGGGACAAAGGAGAAGAG $C \subset G G G A G G G A G G A A A A G G A G C A A A G G C A A G G A A C A C G G G G A G$ ACGGAAACGAGACCAACCGGGGAACGAAAACCAAAGAGAGCC G G G GCA C G G A A GCAAGAGGAGAGAGGAAGAAGAAGGAGAGAG AC GACCGGGGGGACATGGAGAACACGCCAACAGGAAGAAAAG
 $G G A A A A G G A A A A G G A G G G A C C C A A G G C A G A A G A G C C A A G G A G$ A G GAAACAAAGGCAAGGGAGTAAAGGGAGAGCCCGGCCAAAAA AAACGAAGAAGGAACCAAAAGGAGGGCCGGAAAAGAAACAGC
 AACAGGGGAACAAAAAAAGGAACCGGAAAGGGAAAAAAGGCA C C C C G A A A A A A ACCCGGGAGGAAAGGCCCAAGGGAAAAAAAA A A G G G G G G A A A G A A G G A A G G A G A A G A G GAA A A G G G G G A A C C C AA $A G A A A A G G A C G G G G G A G G A G G G G G G G A A A G C C A G A G G G A G$

 G G G A A A G G G A G G G G A A A A A GAA A G CAG GTTGGAGCCGGAGAA
 A A G G A A A A A A A A A A A A A A A GAAAAA GA GAA G GAAAAAG G GAA GAAAGGGGCCAAGGCCAGAAAGGGGAAAAGAGACGGGGGGAC
 A GAA A G A $A \operatorname{AGGGGA} A A G C C G G C C G G A G A A G G G G A A A A G A A G A G$ AACCGGAAAAAGGAGAAAACAGGGAAGGAGCAGGACGAGGCA AACCGGGAACAAGGAAGAACAAGGAAAAAAAGGAGAGCACAC GAGGAAAAAAAAGGAGAGGAGGGGAAAAGAGGCAAGAAAAAG GAAGCCAAGGAGGGGAGGGAAGGGGGGGGAAGGAAAAAAAAA A GAA A GAGGAAGAGGGAGGAAGGGAAGGGAAAGGGAAAAAGA A ACCAGGGGAGAGAACAAGGCAAGAAGGAGGGGGACAAAGGG AAAGGGGAAACCGAACAGAAAAGGAGAAGGGGAAAGAAACBG
 G G G G G G G G G G A GCA G G A GAGGAGGAAAACCCC G GAACCGGGG C C G GCCAGACGAGACCGGAGGGAAGAAGCCGGAGAGAGAAGA AAAAAACCGGGGGGCCGGCCAAGGGGCCAGGAAAGGAGAAAA AACAGAGGAGAGGGGGCAGGAAGGGGAAGGAAGGGAAAAGGA A G G A G G G G C C A A A A A C G G G G G G A A A A A A C C A A G G G G G G G G A A G G G GAAAACCGGCCGGGGAAGGGGAGAGAGAGACGGGGAACA G GAACAGAAAAAGGGGGGGGGGAAAAAGACAGGAAAAAGCAC G G C C G G G G G G G GC C A G A A A A G G G G G G G G G A G G G A A G A G G G A G G G G G G G G G G G A A G G A A A A G G G A A G G G A CAA A A A A A A G GA G A A
 $G G G G G A A G G A G G G G G G A G A A A G G A A G G A G G A A G A A C A G A A A G$

G G GACCGGAAAGCCAAAAGGAGCCGGCCAGGGGGAACAGGCC A G G A A A G G A A C C G G G G A GAGAAGACAGGCAGGAAAAA GAAAA
 GAGAGGAGGAAGAAAGAGCAAAGGGGGGAAAAAAGAACAGAG GAAACCAAAGGGCCTTGGAAATGCAAAAGGAGGACCAAGAAA G GCAA $\mathrm{C} A \mathrm{~A}$ GAGAAGAAAAGGTTGGAAGGAAGAGGGGGGAACA A A A G G G G A G G G GAA A G G G A ACGGACACCGAAGAGAAA GAA G G A G G G G G GAAAGGAAAACCACAAGAAAGGGGGGAGGGAAAAAA G G G G G GAGGGCCCCAGAAAGAGAAGGGGGGAAGGCCAAGGAC $C \subset C C A C A A G G A A A G A A A G C C A C A G A A A A G A G A A A G G A G A A A G$ A A G G GAA $A$ AACCAGCCCCAAGGGGGAAAAAGGAAAAGGGGGG GAGGAAAAGGGAATAGACGAGAGGCCGGAAAAAAGGGGCCGG AAAGCCCCAGGGTAAGACCCGACCGGAAGGAGGGAAAAACCC $G G T T T T G G A A G A G G A G G A G G G C G G A A G G G G C A A A C C G G A A G A$ C C G G G A GACCGAGGAAAAGGGAGAAACCGGAACCAAAAAAAA GAGGGGAAGGGGGGCAGGGGGGAAAAAGGGAACCGAAAGAGA GAAGCAGAGGCAAAGAGGGGAAGGAGGGGGAACCAGAAGAAA A GAGGGGGCCAAAGAGCCAATAGAAGAGGACAAAAAGGAGAA $A A G G A A A A G G T T G G G G A A A G G G G A G A G G A A G G G G A A G A G G G G$
 G GAA $A \operatorname{GA} A A C A C A G A A G G G A A A G G G G G G G G G G G G A A A A G G G G$ AACAAAGGGGGACCGGAGAGAAAAAAGAAGGAAGAACAAAGG
 $G G A C A A C C A A A A G G A A A G G A G G G G A G A A A A A G C C A G A G G G A G$ A A G G G G A G A G A A A A G G G G G G G GAA A G A A A A A A A A GA GAAAA A GGCCAGAAGGAGAAAAGGTTAACCAGGGAAGAGGACGGGGCA A A GAAA A A A GAAGGGGGGGAGAGGGGGGGACCAGCCGGAGGG A G G GAAAAAAGGAAGAAAAGGGGCAAAAGGGGAGAAAAAAAG G G A A G G G G G G A A G A A A A A A GAACAA A A G G GAA G GAA G G G G G G G G G GAGAGAAAAGAGGAAGGGGGGAGAGAAGGAAAACCACAA AACCGGAAGGCCCCGGAAAAAACCAAGGAAGAGAGGG
GAACCAAAAGGGGAAGAGGCCAAGACAGACCGGAACAAACC A GAGGGCAAAACGGGGAAAGACAAAAGAGGAAAGAAAAGGAA A A A G G G G G A G G A G G A G G G G G A A A G A A A G G G A GA A A A G A G G A A A A G G G G A A A G A A A A A G T T G A A A G G G GCCGGGGGGGAGA G G G A A GCAGGGGGAAACCGAAAAAGGAAGACCCGAAGGCCABAAAA GGAAGGAGCCAGCACCAAAACCGGACAAAAGGGGAGGGAAGA G G G GAGCCGAAAGGGGGGAAGAGGAGGAGGGGACAGGGAAAG G G A G A A A A A A A A G G G G A A A GATGGAGGGAGAAAAAAAAAAAA A A C A G A A A G GA GAAAAAGAAGGAACAGGGGAACCBAAAAAGB G GAAAAAACCAAAAGGGGGGGGAAAAAAGGAACCAAGGAGAA A A C A GCGGGAGGAGAAAAGGAAGGAGCCGAGGAAAAGGBGAA G GAAAAAAGAGGAAAAAAGGCCGGGAGAAAGAAGCGACAGAA
 GAGAGGGACCGAAGGGGGGGTTGACGAAGGCAAAAACCAAGB A A G G A A GAGGGGGGAAAAAGAGAAAGGAAGGAGAAACAAAAA $G G C A G G A A A G G G A G G G C A G A G G G G G G A A G G C A G A C C G G G G G G$ $C C C C A A G G G G G G A C A G G G A A G G A A A G A G G A A G G A C C G A A C A G$ ACAGAAACAGGGGGCCAAGGGGCAGAAGAAGGAAAGGATTAA A A G G G GCCGAAGGGCCGGAGGGCCGGAAAGAAAAAGGACCAG A A A A A G A G G G A A A A G G G G G G G G A A G G G G G A G A G G G G A G G G G A GGAGAAAAGAGAAGAACCAAGGCCCACAAGAGGGAAAAAAAG G G G A A A G G G G C C G G A A T T A A A A A A A A A A A GAACCA GAAAAAA AAAAAAGGAGGGCAGAGGGAAAGGCCAAAGAAAAAGCCGCGG AAAAACGGAGACCAAAAGGAGCCCAAAGCCGGCCACAGGGAG A GAA A G C C A A G G GAGAGGCAAAGGAAGGGGAAAAAAAAGGCC AAAGGGAAAAAACCGGAAAAGGAAAAAGCCGGGGGGCACAA G AC G G G G A A A G A G G A A A G G A A A A GAAAAAAA A A G G GA GA GA G A A $G C A A G G G A C C A C G A C C G G A A G A A A A G G G A G G A G G G G A A G G G G$

GAAACAAAGGGGAGAAAACCAAGAGACGGGAAAAGGGGAAAG CAAAAGAAAAGAACGAAAGAGCGGGGAAGAAGGGGAGAAAAC A G G G G GCCGGGGAGAAGGGGAAAAAGGAAGAGGGGAAACAC G A G GAGGAAAGAAGACCGGGGGGGGAGCAAACCAAGGAAAAAA
 A A G G A A G GAAAGGGGGAAGGAAGGAAAGGGCCAAAAAAAGAA A G G G G A G A A A A GAA A GAGGGGGAAAGAAGGAAGGGAGAAAAA AACCCCGGAGAAAGGAAAACCCAAGGCCAAGGTTAAAAGAAA GAACGGGAGGAACAAAAAAGAACAAGGAGGGGAAGGGAAAGB G GACGGGGACAAAAAAAAAGAGGGACAGGGGGAAGGAAGAGG
 G G GA $\operatorname{l}$ GAGAGGGGAAAAGCAGGGAGGAACCCCGGACAGAGGA GAGAGAGAAAGAGGCAGGCCCAAAGGGAGAAGGAGGGGAGCC $G G C A A A A A G G G G G G A A A A G G G G C C G G G G A A G G G B A A G G G G G G$ GGAAACGGGGGGAAAGAGGGCAAGAGAAAAAAAGAAAGGGGA G GA $\operatorname{GA} A \operatorname{AA} C C G A A A A A A A A A G G G G G G C \subset A A C G G G G G G G G G G G$ A G G GAGCAAAGAGGAAGGCCAAAGGAGGGGAGAAAAAAAAAA G G G GAA $A \operatorname{GCCA} A A A A A A A G G G G A A C C A A C C G G A G G A G G G A G A$ AAGGGGGGAACCAAAACCGAACGGGAGAAGAAAAAGAGAGAA GAGGAAAAAAAAAAGGGGGGAGGGAAAGAATTGAGAGAACAG G GAGAA $A \operatorname{A} A A A A A G A A C C A A G G A G A A G G G G A G A G G G C C G G A C$ GAAGCCAAAAGGAAGGAAAAAGGGGGAAGAGAAAGAAAAAAG $A G A C G G G G A G A G A A G G G G A A G G A G A C A G G G A C G A G A A A G G A A$ G GAGGGACGAGGGGGACAGGAAAGAAGAGAGG
$11006000-9 G G A G G G C C A G G G G G G G G A C G A G G A A A A A G G G G C A$ AAGGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGGAA $C C G A G A A G G G G A G A G G A A C C A G A G G A A G A C A G G G C C G G G G A A$ G GACAAGGAAGGGGAAGAAGGGAAAAAAGGGGCAAAGAGAAA A A A A G A A A G G A A A A C C G G G G GCGGAGGAGAGAAA G G G A A A A CA $A C G A C C G G C C A A G G G A A A G G A G G A A A A A G G G G A C G G A C G G A A$ G G A G G A G G A G G G G G G G G G G G G G A A G G G G C C G A A T A G G A A G G A G G GA A A A G GACCAGGAAAGAAGAACCGGGGGGCCGGAAAGAA
 C C G G G G GACCGAAAAAGGAAGGAAGGGGCCGGCCAAAAAAGG GAGGAACCGGAAACCCGGAAAAGGAGAAGGCCAAAGTXAAGG A A A G G G GA A GAAACGAGGAAGAGAAATTCCGGGGCCGGAGCA GAGGAAGGAAAGGAGAAAAAGAGGAAAAAACAGGCCAGAAAA G GAA $A \operatorname{GAA} A A G G A G G G A A A A A G A G A A G G G G G G G A C A C C A G A A$
 A G G A A A A A A A A A C C G G G G G GAAAAAAACAAAAAGGAAAAAA G G A G G G G A A A G G G GAA A G A GAGAACCAAGGAAAAAAGGGACC GA GAGGAGGGCCACGGCCGGAGAAGGAAGGGGGGCAAGAAGAAA A A A A A A CAGGAAGGGGACGAAGGAAGGGACGGATAGAGAAAA G GAAAAACGAGAAACAAAAAGGAAAAAAGGCCGAAAGGAGAG G G GAAAAGAAAAAAAAAAGGAAGGGACCGGGGAAGGGGCAAA $A C A A G G C C A G C A C A A A G G A A A A A G A A A C G G G G G A A A G A A A A A$
 A A G G G A A A GAGGGGACAAAAGGAAAAGGGATAACAGGAGGAA GC G A GAGAGGGGAAGGGGGGACGGGGAAGGAAGGAAAAAACC GAGGAAAGATAAAAAGGGGGCAAAACGAGAAAGAACAA GAA G $A$ A A G G G A A G GAAACCGGGAAAGGGGCCGGAAAACCAAAGAAAG GAAAAGGGAACCGAGAAAAACCAGCCAAGGAAGGAAGGAGAA A G G G G G G G A A G G G G A A C C G G A A C C C C G G G G GA GAA A A A A G C A AACCGCCACCAAAAAGAAGGAAGGAACCAAAAACGGGGGGGG CAAAAAGGAAAACCGGGGGGGAGGAAAAGGAAAAAGAGAGAA A G G G G A A A A GCCAAGAAAGGGAAGGGAGAAAAGGACGAAAAA CAGAGACAGAAAGGGGAAAAACGGAAGGCCGAGGAAAAAAAAA G G G A A A A G A G T A A A G G A A G G G G G G C A T T G G C A A A G G A A A A A A $A A G G G G A A A A A A G A A A G G G G A A G G A A A A G G T A G G G G A G G G G A$

A A A A A A A A ACAAAGAGGGCAGAAACCGGAGAAAAACGGGGGG A A C CAGCCAGCCAAGGGGCCAAAGCAAAAAGGACAGACAAAA GACCCCAACCAAGAAAGGAAAGAAAAGGAAAGAGGGGACAAA G G G G G GATAAGGAGGGGGAAGGAAGGGGGGGGAAGACAAAAG AATAGAAGAAAGGGAGAGAAGGAGGGGGCCAGGGGGGGAGAG AA $A \operatorname{GGG} \operatorname{GA} A \mathrm{G}$ GAAAAAAGGCAAAAAGGAAAAGGGCAGGAAAAG A G G A G GAGAGGGGGAAACAGAGGGGAAGAAGAAAAAAACCCC $G G A A G G A G A G C C A G G G A C A A G A A A G G A G G G G G G G T T G G G G C C$ G GCCAAAAGAGGAAACCAAGAGGGAAACAAGGGGGGAGAAAA GACCAGGGAGAAAAGAGGAAAACCAAGGGGCCCCAAAAAAGG A A G G G G T T A A G GAGAGCCGGGGGGCCAAAAGAGGCCAGAAAA G G G A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A G A G A A C A A C G G G G A A A A G G C C A G A G$ G GAGGGGGGGGAAAGGAGAAAAAAGGACGAACGACCCACAAA A A G A A A A A G G GCGAGAGAAGAGGAGGGACCGAACAAGAGGGA A G GA A A A G G G G GAGACAAGGAGAGGGGAAGAAAAACGCAGBA G GAAAAAGAACCGGAAAGAAAAGGGGGGAAGGACGGGGAGAG G GCCGGCCAAGGGAAAAGAAAAAAAAAAAAGGAAAACCGGGG AAAGAAGACAGGACGACCAGAGAAGGCCAAGAAGCCAAGAGG AAGGAAGAGACCGGCCAAAAGAACCACAGAGGGACCAAAAGG GAGGGAGGAAAAGGGGGGCCAAAGGGGAGGAAAAAGGGCCGG G GAACAGGGACCCAGGGACAGGAACCCCGGCCAAAGAGAGGG A A G GAAAAAAAAGGCCGGGGCCGGAAAAGAAAAAAGGAGGAG AAAAGGCCCACCACCGCAAGGGGAAAAGAAAGAAGAAGAAAG
 G G A A C C G G A A A A C C G G G G G G G G G G G G G G A G A G C C A G A G C C G G A A G G A A G G G GAAAA A $A \operatorname{A} \operatorname{A} A A G G G A C G A G G G A A A A A G C A A A G A G$ $C \subset A A G G A G G G A A G A C C G A A A A A A A G G A A G G G G A A G G G G G G G G$ GAGAGGGGGGGGGGAGGGTTGGAAGGGGAAAAAAAAAACCAG AAAGAGGAGAGGCAGAAAAAGGAAAAACGGAAGGAAAAGGGG AAAACCAGGAGGAAGGAGACAAAGGGGGGGCCGGGGAGAAGB A A A A A G G A T T A A A A G G A A A A G G G G G G G G A G G G G G G G A G G A G G GAAGAAGGACAAACAAAAGAGAGGAGCCAGGGAAAAGGGACA G GAATAGAGGGAGAAGACAGAAGAAAGGAAAAGGAAGBACAA G G A A A A G G G G G G A A G G A A A G G G G A G G A A C C A A A G G A A G A G A G CCAAAAGGAAGGGGAAAAGACCAAAAAAGGAAAGCCGGGGGA A G G G A A G A GAGAAAAAAAAAAACCAAAAGGGGAGGAGA G GAAA
 G GAA A G G G GAAAGGAAGGAAGAGGCCAAAAAAGAGAAAAAGG A A A A A G G G A G G A A G G G G GCCA G G G G G A A A GCC GAC CAA G G A G G A T T G G G G A A G G G G A C A A A A $\mathcal{A} G A A G G G G G A A G G G G G G G G G G G$ $G G A A A A A G G A G G A A G G A A G G A A G G C A G A A A A A A G G A G G G G T T$ G G G G G G A G G A G G G G G A A A A $\mathcal{A} G G A A A A A A A A C G G G G G G A G A A G A$ G G G GAGGAGGGGCCGGGGAAGGAAAAGGAACCAACCAAGGGG A G A A G G G G G G A A A A A A G GA $A$ A A A G G G G G G G G A A A A A A G G G G C C $A G G G C C G G G G G A G A G A A G A G G A G G G A A G A G G A A A A A G G G G G G$ AAGGAGCGAAAAAAGACCAAACGGAGAAAAAAGGAGAGACAA GAGAAAGGAGAAGAGGGAAAGGGAAAAAAGAAGGAAGGAAAA AAA A G G A G GAA A G G GAGGAAAAAAAAAAGGAGAGAGAAGAAA G GAGCAAGAGGAGGAACCCAGGGAGGAAGAGGAGAAAAGGAT AAAGCCGAGGATAAGGACCGTAGGGGAAGGGAGAAAAGAGAG

 G G G G A G A A G G A A G G A A C C G G A A A A A A A A G A A A G A A GAA GAC C AACCAAGAAAGGGGAAAAGGCAAGGAGAACAGATGGGGGGAA A A GAGAGAGGAGGGAAGAGGGAGAAAGGGGAAAAGGAAGACC AACCGGACAAGGAAGGGACAAAAAGGACGGCCAGCAAATAGG

 $A A C C G G G G G G G G G G G G A G G G A A A A A G G G G G A G A G C C A A G G A A$

G G G G G A A A A A GAAAGGCCGAGGAAAAAGAGAGAAAAAAAGAC AACCAAGGGGGGCCCCGGAAGAAAAACAGAGGGGAAAAGGAA AACCAAGGGGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG GGGGACCCAACCGGAAAGAAAAGAAGAAAAGGAAGGGGGGGG AAAAAGAAGGAACCAGAAAGAAAGAAAAGAGAGGGGAGAAGA G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A A A A A A A G G A A C A G A G A G A G A G G G G G A A A A C A$ G GCC G A A G A A A G G G G G G GACGGCCAAAAAGGGCAGGGAGA GA AGGAAGGACAGAGAGAAGAGGAGGAGAGGAAGACAAACAAAA A C A A A A $\mathcal{A} G A G G G C C G G G G G G A A C C G G A A A G G G G G G G G G G B C A$ G G G G GAAGACAGGACAAGAAGAGGACGGCCAAGAGGAAAACC
 GAACAAAGAAGGGGAAGGAGGGGAGGCCAGAGAAAGACAAGG A A G G G G G G A GCAGAAGAAGGCCAGACGGACAGAGAAGGAGAA A A G G G A G G G GCCGGAAAGCCGAGAAAGACCAAGAAAAGAACC ACGGAAGGAAGGCAGGGGAAACGGGGAGCAACGGGGAGGGGG A G GAA A A GAGAGGGAACCGGGGGAAAGGAAAAAAGGGCAAAA A A A A A G A A A G G A A A G G A G G G G G C C T T G G G G A A GA G G G G A G G G A A C C A A A A A GTACAAAGGGGCACACCCCCCAAAA GACCGGGG AACCAAGGGGGAAAAAGGAGAGCCAAAACCGGGGGGGGAACAC C C G GAA A A GACCAAAAGGGAGAAAAAGGAACCGAAAGAAGAA AAGAAGGAGAAGAGGAAGGGAGGGAGGAACAGAACCGAGGAG GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGCAAAG $A G A A C C G G G G C A A G G G G G A G A G A A G G A A G G G G G G A G G G A A G A$ $G G C C C A A A A A A A A A A A A A A G A A C C G G A G A A A C A C A G G$
AATAGGAGAGAGGGAAAAAAAAAAAGAGGCCGGAAAAAAGG ACCAAGGAGGACGGGGGGAAAGGGGGAAGGAAAACCCCGGAA AACCGGGGAGGGGAGGAAAGGGCCAGAAGGGGAGAAGGAGAG G G A A A A A A G GCCGGAAAAAAAAGGCCAAAAAGAAGACCGGGG G G G GC G G G G GA GAGAAGGGGCCGGCCGGCACCGGGGGGCCAA A GAGGGAAGAGGAAAAGGGGAAGGAGAAGAAAAAAGACGAAG AC G G G A G G A A A A A G GAA $\operatorname{G}$ G G GACAGGGGAGGGGGGGGGGGGG GGCCAAAAGGAACCATAAAATTAGGAATAAAAGGAAAAAAGG GAGGGGAGGAGGGGGAGGAGAAAGAACAGGGGGGCCGGAGGG AAAAGGGGGGCCCCCCGGAAGGAAAAGGAAGGGGGACCAAAG AA A GGGAAACGAGGAAGGCCGGGGAAGAAGAACAAGGCCAGG GAGAAAAAAAGGGGGGGGAAGGAAAAAAAGGGGAGAGGCCAG G GCCGAGGGGAAAAAAGGGGGGAAAAAAGGGGAAGGAAAAGG AAAAAAGGGGGGGGCCGGCCAAGGCCGGGGCCGGGGAAGGAA G GAA G GAAGGGGAACCAAGGGGGGGGAAGGAAGGAAAAGGGG A A G GCCTTCCCCAAAAGGAAGGGGAAAAAAAGGGATAAGGGG AAAAAGAAGGAAGGGGGGAAAGAAGGCAGAGGAGAACAGGAA A A A A A A G GCAAGGAAGGGCCGGGACCGAGGGAAAAAGACCAA GACCCCAAGAAAGACAAAAAGGGAGGGGAGGGAGGGGGAAAA G G G G G GAGGGCCGGGGGGGGAAAACGACAGAAAAGAGGCAAA A A G GAAAAGGGGGGCAAAAAGGGACAAAGAAAAGGGGAGGGG AAGGAAGGAAGAAAGAAGCGCCAAAGGAAAAGGAAAAAGGGG AAAAAGGGAAAAAAAAGAGGAGAAAGAAAAAGGGAAAACCGG G GAAACAGAGATAAGGAAGGAAGAGGGGGGCAAGAGGGAAGG AGAGAAAGCGCCAACCAAAGAAACAAAAGGAACCCCGACCAG AAA A G G G G G G G G G GAGAGAAAGAAGAAAAAGGAAAAGGGAGG AAAGGACCGGAGAAAGGGGGAGAGAGCGGAAGCCAGAGGAGG GGAACAGGGAGGGAAAGGGGAAGAGGAAAAGGGGAGAAAGCC A A A ACCAAAAGGGACAAAAAAAGGGAGGAGAGAGGGGGGGGG ACAAGGAAGCAAGAAGAAGGGGGAGAGAAAAAAGGGGGGAAA AAAAGGCCGAAGACCCGGGGAAGGGAGAGGGAAAGAGGCACC GAAAAAGGGGAAAAAAAAGGAAGGGGAAAAAAAAAAAAGGCC A A G G G G G G G A G G A G A A G G G G A G G G G G A C G G A A A A A G A G G G A A A G G A G A ACCTTGGACCCGGGGCCAACAGGCCAGGAAATAAG GAAGGAGAAGAAGGAAAGGGGGGGAAAAGGGGCCGGCGGGGG

CAAACCGGGGGGGGGGGGAAGGGGGGACAGAAAAGACCGGAG A A C C G GA G A G G GAGGGTTGAAGAAGGGGAAGGAAAACAAAAA A A A A G GAA $A \operatorname{GA} A \subset A A A G A G G C C G C G C A G G A A A G A C A A G A A G G$ A A G G G GAAAAAAAGAACCGGGAAGCCCCAAGGGGCCGAAAAA G G GAAACCAAAGGGGAAAGGAAAGGGAAAAAAAAAAAAGGBAA ACAGGGCCAACCGAAAAGACAAGGAGACAGGGGGAAAAGGCC A A G G G G G G A A G G A C G G A A A A G G G G A A C CACAGCCCCCC G GAA A G GAAAAAGGTTAAGGAGACGGAAGGAGGAGAGACAGGAGAAA
 AAAGGAGGGGAAAAAGAAGGGGAGACAGAGGAAAGGGGAGAA C CAAAA A A A G G G G G GAGGACCCGGAAAGCGAAGAAAGAGGGG A A A GAAAA $A$ A A A A CAGGAAAAAAGAAGGAGAAAAAAA GAAA GA A A G G G G G A G A A A A $\mathcal{A} A G G G G G A A G G A A G G C C A A G G G G G G A A G G$ ACAAAAGGAAACCCGGGGAAGGAAAACAAAGGAGCCGAGGGG A GAGATGGACGGAGGAGGAAAGAAAAAAGGGGAAAAAAAACA AAAACCCCGGAAGGGGCCAGAAGGACGGAAGGGGGGAAAAAG A A G GACAAAGAAAGAAAAGAAGGAAAGACAGGAAGGGGAAGG GACCGGAGAGGGCCCAGGAGGAGAAGACGAAGCCAAGGAGAA $G G A A C C A A G G G G C C G G G G G G A A A A A A A A G G A A G G A A A A A G G G$ $A C G G G A A G G G G G A A A A G G A A G G A A A A G G G G A A C C G A A G G G A A$ A A A A GAGAGGAAGGGGGGAAGGCCGGAAAAAGAAGGAAGAAA G G G G G G A A G G G G A A G GACAGGGCAAGGGGAGAGGAGAC GACA A GAA $A \operatorname{GGA} A G A A A A G G A A A A A G A G T T A A A G A A G A G G G G A A A A$ G GCCAA G G G A C C A A A G C A G A A G G G G G C C G G G G A C T T A C G G G A G GAGAACAGACCCCAGGGAAAAGGAAAGAAAAGGAAGGGGTT G GAGAAAGAACAGGCACCAGAAGACCGAAAGGAAAGAAAGGG AACCATGGGGAGGAACGGAGAAGGAGGGAAGAAGAGAGGGCA
 CAAAGGGGAGGGAGGGAGCAGGGGGGAAGGAAAGGGGBAGAA GGCCAAGGACAACCAAGAGGAAGGAGAAGACCGGAAGAAGAA A A G G A A G A G G A A A A A G G G G G G G A A A A A A A A G GAACC A A A GAA AA $A G A G T A G G A G A A A G G A A G G G A A A G C C A A G G A G A G A A A A C C$ A GAGAAAAGGAACCTACCGGGGAAGGTTCACCCCAAGEGAAC
 $G G A A G A G A C C A G C A C A G G G A G G A A G G A A G G A G A A A A G G G G G G$ G G G G G G G G G G G G G G A A G G A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G G G$
 G GAAAAAAGGGGGGGGAAGGGGAAAAGGGGAAGGAAGGAGAA G G A A A A G G G G G G A A G G A A A A A A GAAA G GACAAAA G G G G C CA A A A G GAACCAGCAGATTAAAAAATTTTCCAGAAAAGGGGAAGG G G GAGAAGGGAACGAGTACCAGAGACGGAACCGBAAAAAGGG A G A A G A A A G G G G G G C C G A A A G G C C A A A A G G A C G A G G G G A G G G G GAACCAGCAGAAAAAGGCAAAAAGGAAAAAGGGGGAGACCG A GAGCCAAAAAGGAACAAGGGGGGGGGGAACAGAGAAAAAGG A A A A G G G G G G G G A A G G A A G G A A C C A A G G G G A A A A G G T T A A G G C CAACCAAAAAAAAAAGGAAAAGGGGAAAAAAAACCGGGGGG G G A A A A A A G G G GAAAA A GAAAAGGGGCCAAGGAAAAAAT TAA C CAACCGGGGAAAAAAGGAAGGGGAAGGAAAAGAAAGGAGAA AACCAAGGAAGGGGGGGGAAGGAAAACCGGGGGGAACCGGGG G GAACCGGAAGGAAAAAAAAGGGGAAGGAAGGGGAAAGGGGG G G G G G G A A A A G G T TAA A G GAA $A \operatorname{AGGGAAAACAAAGGGGCCGGTT}$ G GAAGGCCGGGGAACCAACCAAAAAAAAAACCCCTTGGAATT A A A A A A G G C C G G C C G G G G A A G G A A A A A A G GAAAA A G G G G G A A G G G GAAAAGGAAGGAAAACCGGAAGGAAGGAAAAAAGGAAAA G GAAAAAAAAGGAAAACAAAGGGGGGAAAGGAAGGGGGAGAA G G G GCCAAGGATGGAAAAAAGACCAGAGAGGGCAGGAAGACA A A C A A A A GAGGGAAAAAAAGGAAACCAACCGGTTAGAAGGCA $G G A A A A A A G G A A C C A A A A G G G G G G A A A A A A A G A G A A A G A G A A$ $G G A A G G G A C C G G G G G G G G G A G A A C C C C C G G C C T T G A A A A A A A$

GAAGCAGAGGAAAGGGAACCGGGGGGAGAGAGAAAGGAAGAG
 AAAGAGCCAAGAAAAAACAACACCAGGGACAGCCCAGACAAA A GCC $C$ G G G G G GAA $A \subset C G A A G C C G G A G G G A G G G G G G G G G G G G G$ $C C G G A A G G G A G G G G C C G G A A A A C C G G T T G G A C G G C C G G G G G G$ G GAA A GAAAGGGAGAGAGCCGGGGAAAAAAGAAAAAAA GAAG CAAAGAAGCCGGGGAAAGAAAGGGGGAAGGCCAGAGCGAAAA GAAGACGAAAGAGGCCGAGGGCAGGACGAGGGGGAGAAAGGA G GAGAGAGCCGGGGAGAAAGAAAAGAACAAAAAGGGCCGGGG AAGGAACAATGAAAAACCGGGAGAAAGAAAAGCAAAGAGAAA A A GAAAACCAAACAAAAGAAGGAAAAGGGAACCCGAAGAACAA A GACAAGGAAAAACAGAAAAACGGAAGAGAAGCCCAGAAGAC
 G G G G A A G G A A TAA G G GAAAAAAAAAAAACCAAGAAAGGCCGG G GCCGGAAGGGGGGAAGGCCGGGGAAGGAACCAAAAAAAAAA AAAAGGAAAAGGGGCCGGAAAACCGGAAGGGGAATTGGAAAA C C C C G GCCAGGAGAGAACAAAAGGAAAAAGGAAAAAAA GA GA G G G G T T A A A A A A G G G G A A G G G G A A A A G G G G A A G G C C A A G G G A G G G G G G G G GACCGGAACCAGACGGAAGGAAGGCCGGAAAGAA
 AAAAGGGATTCAAAAAAAGAAGGGAGAAAAACATAAAACCGG A A A A A A G A A A GAA $A$ A $A$ A $A C C G G T T A G A A A A A A A A G G G G A C A G$ A G G A G A G G A G C G C C A G A A A G G G G G G G G G A A G G A A C C A A A A T T A A G A A A A A A A G G A A G G A A A A G G G G A A G G G A T T G G G A A
AAAAGGAAACCGGAGAAAAAGAGGGGGGACCGGGGAACCGG GGCCAAAACCAACCAAGGGGCAGGAAAACCCCGGGGGGGGGG G G G GAGGAGAACGGAAGGAAGGAAAGAAAAAAGGAAAAAAGG A GCCCCGGAGAAAAAGACGAGGCCAAAAGGCCGGAAAATTGG A AC G A A G G CAA A A A A C GACACCAAGGGGGACGGGGACCAAT T AAAAACAGAAAGAAAAGGAACCAAAAGGGGGGGGGGAGCCGG
 GGCCCAAGAGAGAACACCGGGGCCAGGAGGGGAAGGGGAAGA G GCCGGAAGAAGGAAACCAAAAGGCCAGAGAGTTAAGAAAAG G G G G C C A A G G G G A A A A GA G GACAAGGGGAGGGAAGAAA G GAA G GAGCCAGAAGGGGGGAAAGCCAAAGGGGGAAAAGGGAAGAG GACGAACAGGGGCAAAGGAGAAGAGACCAGAAAAGGGAAAAG GAGGGGAAAAGGCCGGGGCAGAAGAGGAAAAAAAAGAAGGGG
 A A G G A G G A G G G G C C A A A G TAAAA A GAGGAAAAGTTCCGAAC G G G G G G A A G G A C A G A A C G A G G A G G G G A A G A A GA GAA A A G G A G A C $G G A A G G A G T A A A G A A G A A A A A A G G G G A C C A G A A A A T G G A G A A$
 G GAAGGAAGGGAAAACAGAGCGCCGGAACCAGAAGAAAAAGG A A A A A GACAAAACCGAGAAAAAGGAAAACCCAGGAAGBAACC G GAGAGGACCGGGGGGGGCCAAGGGGAGAGCAAAAAAAGACC T T A A A A G G A A G G A G G G A G G G A G G G A A G G A A C C A A G A A G A A G A
 C C C A G G GAGGAGGGAAGGAAGGAAGGAGAGAGGGGAAAGGGA G G GAAA A G G G G GAGAACCAAGGGAAAGGGGAACCGGACAGGG A A G G G GACAAACGAACGAGAGAGGACGGGGGGGGCACAAAAG C C CAA $A \operatorname{GCG} A A A G G G A A A A G C C G A A A A G G A A A A A A G G G A G A A$ A A GAA A G G G G G CAG GAAAA $A \operatorname{A} A A A A G G G A A G A G G A G G G G G A G A G$ G G G G A A G G C C G A C C G G G G A G G G A G A A A C G A A G A G A A G A G G G C A GAGAAGGGGAACAAGGAGAAAAGAGGGAAAACCCCCCGGGA A A GAAAAGGGGAGGAGAGGAGGCAAGAAAAGGGGGACCGGGG $A \subset A G A G G G G G G A A A A G A A A A A G A A A A G G G G C A G A G A G G A G A G$ $A G C C G A A G G G G G G G G G G G A A G G G G G G A A G G G A G A G G G A A A A A$ A A G G G GAAAAAAGAGAACAAAAGGGGGGAGAGAGCCCCAAAA AAAGAGGGGGAGCCGACAGGAGGGGAGGAGAGCAAAAGAAGA

C CAA GAAAAAAAGGACAGGAGAAAGGACGGAGAAAAAAAAGG GA $\operatorname{G} A \subset C G G G G G G G G A A A A G G A A A A A A G G G G A A A A G G G G A A A A$ A A G G G G G GCC G G A A C C G G G G G G A A G G G G C C G G A A G G G G G G G G G GAAGGGGGGAAGGAGGGACGAGAAAAAGAAAAGGAGACCAA AAAGAAGGAAGGGGGACCAAAGGAGAGGAAGGCCAAAACAAA A GAGGAACAGACGGGGGAGAGGACAGGAGGCCAGAAGGAAGA C C G G G G G G A A G A G A A A G G T T G G A A A A G G A A A A A A C C A A A G A A AAAGGGCCCCGGAAAAAGAAAGAGGGCAGGGACCAAAAAAAG
 A GAAAAGAGGAAAAGGGGGGAAAAAGAAAAAGGCGGGGAGAA A A G G A GAGGGAGACGGAGAGGGGGAAGGCCGGTTGGAAACAA A A A A G A A G GAAA $A \operatorname{A} G \mathrm{G} G A A G A A G A A A A G G G A A A A A C A A A A A G G$
 G G G G A A A G A G G A A A C CAGAGGGGAAAAAAAGGAAAAAACCAA A A A A A A A A G GAAAAAAAAAAGGAAAAAACCAAAAAAGGAAAA G GAAAAGGAGGGGGAGGGAGGAGGGGGGCAGGCGAGGGACAA CACCGAGGGAAGCCGAGGAAAAGGAACCAAAGCCAAAACAGG AC GAGGAAAAAAAAGGAAAAAGGGGGGAGGCGAABAGAAAGG GAAACCGGCCGGGGACGGAAGGGAGGAAGGAGGAAAGAAGAA A GAGAACCAAGGGGAAAAGACCAAGAGAAGGGGGCAAAAGAC AAAAGAGAAAAAGGAAAGAAGGCCACGGAAGAGGGGGGAACA AAA A A CAGGGAAAAAGGGGGGAAGAAAAGGAAGGAGGGAAGA
 G G G G A GCCGGAAGGCACCGGGAGGGAACGAAAAAAGAGAGAA G GAA A ACAAACCCCGGAAAGGGGGAAAAAACCTTAAGGCCGA
 GAAAGGGGGAAGGACCAGAGAAGGGGGGAGGGAGAAGGAGGG A A TAGGGGAGAAAACCAAAGGGAAACGAGAAAACAGGGAAGA A A A A A A A A G GA A A A GAAGAGGAACGAGAAAAGAA GAAA GA GA A GAGGGGAAAAAGGGAAAGAAAAAGGAAGGGGAAAAAAGAAA G G G G T T G G A A A A G G G G G A A A A A A G A G G A T T A A C C A A C C C CAC AAGAGGAGGGAGGGAAGACAAAGGGGAAAGAAGGCCCCAAAA C CA $A \operatorname{GAA} \mathrm{~A}$ G GAAGGAAAAAGGGAAAAAAAAGGAAGGAAAAGG GAAAAAAAGCAGGAACGGAAAACCAAAAGGCCCCGCGACAAG G GAAAGGAAAGGGGGGCCGAACAAAGAAGGGAGAGAAAGGAA A G A C A GAAGGGGGAGCGGAGGAAAGGCAAAAAGGAAGAAGAA
 G G G GAA A G G GAAAAAAAAAAGGAAGGAAAAGGAACAAAGGGG G G G G A A A A A G G GAC GAAAAAAGAAAGAAAAAGGAAAAGGAGAA A A A A A A A A G G A A G G G G A A G G G G G G A A A A A A A A G GC C A A G G A A A A A A G G G G A A A A $\mathcal{A} G G G G G G G G G A A A A G G A A G G A A G G G B A A G G$ G G G G G G G G G G G G A A G G A A A A A A A A A G G G G A A A A G G A A A A G G G G G G GAAA $A \operatorname{GGGGGAAA} \operatorname{GA} A G A A G A T T G G A G C C A A A G A G G G G G G G$ AACCAAGAAGCAGGAAGGACGGCCAAGGGGAGGGGGAAGAAA A GAGACAAAAACGGAAAGGGCAGGAAAAGACACCGAAGAGAG G A A A A T G G A A G G G A A G A G G A A GAGAAGGGGGGGGCCCAAAA G
 G GAAAGAGAGAAAGGAAGGAGGGGGGAGGGAAACGAAAAGAA
 GAAAGGAAAGAAAGCAGACAAGGAAAGGAAGGAAGGAACCTT GATTAGCAAGAAAACAAGGAGAAAAAGGGGGGGGGGAGAAGA
 C C G G G GAAAACCAAAACCAGGGGGAAAAAAGGAAGGAAAAAA G GAAGGAAGGGGAAGGCCACAAACGGAAAAAAGGAAAGGAAA GAAAAGAAGGGAAGCACCAGGGGATTGACCGAACBGAACCGG

 G G G A A G A G A G A G A A GAGGGAAAAGGAAAAGAGGGCCAAAAAA GAAAGGAAGGAAGGAAAGGAGAGACATAGGAACCGGGAGAGC

CCGAACGGGGCAAAGAAACAGGAAAACCGGGGAGAAGAAGCC A GAC $\mathrm{C} G \mathrm{G}$ CAAAACGGAGGGAAAAGGAAAAGAGGGGAAAAGGAG A A G G A A G G G G A A G G G G A A A A A A G G G G G G G G C C G G A A A A A A G G A A G GAA A G G G G GCCAAAAGGAAGGTTAAAAGGGGCCGGGGAA CCGGAAAAAAAAAAGGCCAGGAAGGAGGAAAGGGGGAAAACC
 G GAG G A G G GAAA $A$ A $A \operatorname{A} A A G C A G G G A A G A C A G A G A G C A G G G G G G$ GAGCCCCAAGAGCAGAGGAACAAGAAGAGGAGGGGAAAAGEG A A A G G A G A A A A A G A A G A GAGGGGGGAGGAACCAAGGCAGGGG ACGAAAGGACGGGAAGAAAAGGACAAGGAGGACAGAAAGGGG T TA G GAAACAGAAACCAATAACGAGAGGAGAAAACAGGGGAA
 A A A A C CAACCGGACCGAGGACCAACGAAGGAAGGGGAGAAAA C C A C A A A A A A G G A A A A A TA G G G A G A GAGGAGAGGGA G GA G G A
 AAAACCAAGGAAAACAAAGGGGCCAGGGACAAGGACGAGAAA
 GAACCCAAGGGGAAGGGGACGGGGGGGGAAAATTAGGAGAGG AAAAGGAAGGGGGGAAAAGGAACCGAAAGGGGAAGGCCAAAG G G G A A A G G G G G GAAAA A A A G G G A CATAAAAAAAAA A A A A GA G G GAAAAAGGGAAAAACCCCGAAACCCAAGGGGGGGGGGGAGAG CAA A A G G GAAGAGAAAAGAAGAGAACGGCAAGCGGAGGGGAG G GAACCAAGAGGGGCAAAGGCCAAAAACGGCCCCAAAAAAGG A A A A G G A A C C G G T T C C G G C C A A G G G GA G A A A A G G G G G
G G GAAAAAAGGAACCGGGGGAGAAGGGGAAGGGGGGCAGG GAA $A \operatorname{GA} A A A G G A G G A G G A G A A G A A G A A G A A A A G G A A A G A A G G$
 A GCAAAAAAAGGCAGGGGGGAGCCCCGGAAGGGGAAAAAAAA
 AAAAAAGGGGAGAGGGGGAGGGCCAAAGGGAGGAGAAGACAG A A A T A G A A G G A G A A A A A A A G A G A A G G A G A GA G A C G A A G A C G A G GAGCCAAGGGACAGGAGGACAGGGAGGCCCCAAGGGGAAGA GAACAAAAGGAAGAGGAGGGGAAGAGGGGAGGGGGGCCAGAA G G C A A G A A A G A A G G G G A A G G G G A A G G A A A A A CACA G GA G G A A $A G G A G G A G A G A G G G G G G A G A G A A G G A G G G G G G A A A A A A G G G G$ G GAA $A \operatorname{GAAAAAAAAAGGAAGGAAAAAGAAGGAAAAGGAAAGAG}$ AAAAAAACAGGAGGAAGGAAAGCAGGAGAGGGAACCGGGGGG C CAGAAGGGACAAAAAGGGGAAAAGGGGAAAAAAGAGAAAAA A ACCCCAGGGGGATAGAAGGAGAAGGAGGAAGGGGGABAGAC
 AAAAAGGAGGCAAGCCGGAAAAAAGGAAGGAAAAAGGGAAGG A GCCAAAAAAAAGGAAGGGAAAGGCCAAGGAACCAGAAAGAG AAGGGGAAGAGAGGGGAAAAGGCCGGAAGGAAGGGGAAAAGG ACGGAGGGAACCAGAATTAAAAGGGGGGCCGGAAGAAAGGAG A G G G G A A A C C C C A A G G A A G G A A G G A G G G G G G G G G C C A A G G G G C C C C G G G A A A C C G G A A A G G GACA A A G CAAA $A$ A G G G A G A G C C C A GAGAGAGACAAACGGCAGAAGGGAACCAGAGAGAAGGAGAG A A A A G G G G A A A A A A G G A A G G A G G G A A G GAC G G G GA G C C C C G G GAAGAAGGACCCAAGGAGAAGGGAGGGGGGAGCAAGGGGGAG G GAGCAGGACGGGGGGAAGACCAAACGGACGAAGAAAACCGG
 G G G G A A G G A G G GAA A G A A A A A A A C C G G G G G G G G A G G A G G G G G G A A G G G G A A A A A A A G A A A A A A A A A A A GA G CAA A A C G GAG G G G G G GAAGGCCAGGAAACCAAAAGGGAACGGAAAAAAAGGGAGAG $C \subset G A G G A G G G A A C C G A A A A G A G G G A A A A G A G G G G A A A G G G G G$
 $G G A A A G A G G G A A A A C A A A G A G G A G G G C A G G A G T A A A G G G G G G$ A G G G C C G A G G G G G G G G C C G G A A G G A A G G C C G G A A A A C C A G G G G GAGAAACAGCAGGGAAGGGAAGGAGAGGAGGAAAGGGAGAA

G GAAGAGGAAAAAAGAGGGGGAAGGAAGGAAAGAGAAAAGAT G GCAAAAGAGAAGGGAACGGAGGGAAAAGGGGAAGACCAAGC A GAGAGAAAAAAAAGGGGCCAAGGCCGAAAAAAGAGAACAGA GACCGGGGGGGGCAGGAGCAAAAAAAAAAAGGAAGGCCAAAA $C \subset A A A G C A G G A G A A G A G A A A A A G G G G G A G G A A A A C C G G G G G G$ G G G G A A A C A A G ACC G A A A A GAAAGCCGGCAGGGAAAAAAAAA G G G G A A A G A A G GAAAAACGGAGAAAAGGCCCCAAGCAAGGAC GAGAGGAAAAGGAGGGAGAGAGAGAAACGCAAAAAAGGAGAG C C A GCACA GAGGAAAAAAGGAGGGCCAAGGGGAAGAAAGGGA TAAAGAAACCAAGGGGGGGGCAGGGAGACCAGAAAAGGGGGG AAGGCAGGCCAAAACCAAAACCAACAAAAGGAGGGGGGGAGG G GAGGGCAACAAAAGGAAAAGGAAGGCAGGGGGGAGAGAACA GGCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAAAAAA A A G G A A A A G GCGGGCACCAGAAGGAGGGAAGGGGGGCCAAA G ACGAGGGAGACCACGACCCCAAAAGAAGAAAACCAAGGAAAA GAAAAAAAGGGGAGGGACCCCCGAGAGGGGGGGGAAAAGAAG A GAA A G G G G G G G G G A A A A A T G G G G GACAAAAAAA A GAAAAAC A A G G G A A G G G G G A A T TAAAAAA A GAAAAACAGAGCCCAAAAA $A C G G A A G G A A A A G G G G A A A G A G C G G G A G C A T A G A A A A A A C G G$ A A C A A A A $\mathcal{A} G G G A G G A G A A G G G G A G G G G G A C G G G A G A G G A G G G$ G GAAAGGGAAGGGAGGCGAGGAGAGCAGAGACAGAAACGAGA C C GA $\operatorname{A} G C C C C G G A A A A C C G A G G G G G G A A G G G C A G G G G A A G G G$

 A A A A A A G GAA $A \operatorname{GG} \operatorname{GAAAAACCAAGAAAGGAGAGGGGAAAACCC}$ C CAACAAAGGAAGAGGAAGGGGAAAAGGAGGGGAGACCAAAA CAGGACGGGAGACCGGAAAACAGGGAAGACGGAAAAGGAAGA A A G GCCGGAACCGGGGAAAACCGGGGAGCCAGAAGACCAAAA A A A A A A G G G G A A A G GAAGGAGAGGGAGGGAAAGGTTCAAAAA GGGGCCAACCAGGGGGAAAGGAGGAGAAAAGGGGGAGAGGAC A G A A A A A A A A G A G A A G C A A C A A A C G G G G G A T T A A GAAA G G C C G G GAAGAGCCAAGGGGCCAAAAGGGAGAACAAAAGGACAGAG GAAAAACCGGAAAAGGGGGGAAAAGGGGACAGAGAGGGACBG A A A A A A G A G G A G G G G G G G A A A A A A A A G GAA A G G GA G G G G A A A G G G G A A A G ACAAAACCAACCAACCCCGGCCAAGGAAAAAAGG G G A A A A G G A A C CCCAAAAAAAGGGGGAAAAAGGGAGAAAAGGG G GAATTAGAAACAGGGAGGAACGGGGAAAGAGCCCCGGAAAA AAAAAACCGGGGGGGAAAAGAGCCGGGGAACAAGGACAAAGA
 AACCAGAGGACAAAAAGGCAGGAAAACACCGGGAAAGECCAA CAGGCCAACCGGAAGGGGAGGGAGGACCGAAACAGAAATTGG G GCAAAGGGGAGAAAAGAGAGAAGCAAAAGAAAAAAGACCAG AGGGAATTAGAAGAAGGGACAAACACAGGGCCAGAAAGTTAG A G A A A A A G G G G C A GA G A A A A GAGAGGAGGAAAA GA GAA G GAA G G G GAAACAAGGGAAAAAAAGGAGCGGAAAAAAGGAGGGGGA AAAAGGAAGAAAAAAAAAAAAAAACCGAAGAGGAGAACGAGG GAAAGGGGAAGGGGCCAAGGGGGGAAAGAAGGAGAACAAAAA G GAGAAGGAGGAAAAAAGAAGGGGAAAACCGGAAGGTTAAGG G GAAAAGGGGGGGGAAAGAGAAACCCACAAAAGGAGAACCGG G G G G A G G A A A C C G G G G A A A G GAGGGGACGGAAAAAGAGAAAA GAGAAAAAAGAAGGGGAGAGGGAAGGGGAAGACAGAAAAAGA A G C A G G G G GA G GAAAAAGGAGGGGAAAAAAAGGAAA GAACCGA
 TAGGGGGGGGAACCAGAAAGCAGAGGAACAGAGGGGGACCAG G G G G A G G G A A G A G G C A G GAAAAGGGACCGAAAAAAAGACAAC C C A GCAA G A GCAA G G GAAGGCAAACCGGAGCCAGGGCAGGGG
 A A GAAA A A A A A A C C G A A G C A G GAA A G G G G GAA G G G G G G A A G G $G G A G G C G G A A G A C C G G A G G G A A A A A A G G C C G G G G A A G A G A A G$

G G G GCAGGCACCAAGGGGAGGGCCACGAAACCCAAAGGGGGG GACC G GAACC G GACCCGGAGGGGAAGAGCCACCAGGAGACGG AAGGGACCCAAAGGAAAAGGGAGGAGAACAGAGGAGGAGGGG AAAAAATTGGGGGGAAAAAGAAGGAAAAGGGGAAAAAAGGGG AA $A$ A $\operatorname{A} G \subset A G A A G A G A G A A G G A G G G A G G A G G A A A A G G G G A A G A$ A A G G A A G A A A C C G A A A GAGGGGGGCCGGAAGGAGAAGAAGAG G G G G G A A G G G A A A A C C G G G G G A G A GAGAGGGGAGGAAA G G A A GGAAGGCCAAGGGGCACAGAGGAAAGAAAGGAGGGGGGAAAA A A A A A A A C A G C A A A G A G G A G A A G G A G G G G G C C G A A A G A C C A G G GAAAGAAAGCCAGAGAAGAGGTTAGGGGGGGAAGGCCAAGG AAAAAACCGGGAGACCCCGGAACCGGGGAAAAGGGGAAGAAA G G G GCCGGAAAAGGAGGGGAGGGGCCAAAAAAAAAAAAGGAA A ACCAAGGGGGGGGAAAAGGGGGGGGAAAAAAGGCCAAAACC ATAGAGAAGAGAGAGGCCGGCCAAAAAGCCCAAAACAAGGCC G G G G G GAAACGGAAAGAAAGAAAGAAAACCAAAGCCCAGGAA A GAGCCGGAGGGAGGGAGAGAACAGGCCAAGGAGAAAGGAGG C C A A A GCACAGGGGGAGGAAAAGAAAAGGGCAAAAAAAAAAA C C G G G G A A A G GAGACCGGGAGGGAGGAAGGAAAAAAGAAGAA AAAGGGGAGGGGAAAAAAGAAAGGGACAGGAGAAAACAAGGA GAGGAAGAAAAAAGGGGGGGAGCCAAAACAAAAAGGGGAAAG $C \subset C G C C A A C C A A A G G G A A G G A A G G G G G G A A A T A G G G C A A A C A$ AACCAAGACAGAAAAATAAAAAAACCGAAGAGGAAGAAAAAA A ACCAAGGAAAAGGAGAGGGGGACCCGGCCGGAAAAAACAAA GACCAACCAAAAAAGGGGCCCCAAGGCAGGAACCGGA
$G G A A G A G G G C C A A A A A A A A G G G G G A G G A G G G A A A A G G A A A G$ G G GAGGGGAGAAGGGGCCGGCCAGAGGGGAAGGAAGAAAAGA $A C C A C A G A G A G G G G G G A C C A G G A G C C A G A G A G G G A A G G C A G G$ A A A A A GAA A A GCGGAAAGAGAGACAAAGAGAAGGAAAACCCC A A A A A A G G A A G G G G G G G G G A G G G G G G C C A G A G G G A A A A G G A A C C G GCGCCGGGGAAAAAAGGGGACGGAAGGGGAGAAGGAAGG AAAGGGAAGGAAAAGGAAGGCCAGGACCAGGGAAAGGAAACC AACCAAGGCAAAGGAAGAGGAGGGGGGGAGGGAAAAAAAACC C C GA A A G GCCGGCCAGGGCCGGGAAAAAGAACAAGAAAAGGG G G G G A C G A GAGGAAAGGAGAGAGGAAGGGGGAAAAGAGAAAA A A G GAA $A \operatorname{G}$ AAAATTAAAAAAGAAGCCAAAAGGGGAAAACCAG GAACGGGGAGAACAGGGGGGGGGAAGAGCCTTAACCCAGACC A A G G G G GAAAGGGGGGGGAAAGGACAAGGGAAAAGGAAAGAA G GAGGGCCAGAAACAAGGAAAAGGGGAGAGAAAGAGGAAAAA G G G G GCAGGAGAAAAAAGAGGGAAAAAAAACCCAAAAAAAAA C C GCACGGGGAAGGAAAGAACCGGAAGGCCAAAAGAGGAGAA G G G A A A A A GAAGCAGGCCGGCAGGAGAGGGGGAGAGAGAAGAG
 G GATGGGGCAGAAAAAAAAAAAAAAGAGAAAAAAGGAGGGGG G G G G A A C A A GA GAAA GAAAAACGACAGAGGAAAAGGGGAGAG GAAGGGAGAAAAAAGGGATTAGCAGACGAGGAGAAACA GAGBG A A G G A GACAGGAGAGGAACCAAGGGGAAAGCCGGCCAAAGAA G GAGGAAGGGAACCAAAGGGGGGGGGAAGGAAGAGGAAAGBG G G G G G A A G G G G G G A G G A A A A C C G G G GA GAGGGA A A G G A A A G G A G G GAAAAAAGAAAGGAAGAGAAGACGGAAAAGGGGGGAAAA
 $A G G G G G G G A G A G A G G G A A A A G G G G A G G G A A A A G G G A C A A A G G$ G G GAA ATTGAGGCCAGAAGGAAAGGGAGCCGAAGGAAAAAAA
 $C C G G C C G G G G G A A A A G G G G G A A G G A A G G A A G G C C C C A A G A C C$
 G G G GCCAGGGACACGGGGGGTAAAGGAGAGCAAGAAGGACAA G G G G A A G G G G G G A A C A $\mathcal{A} G G G G G A A G A G G A A A G A C C A A G A G G G$ A A G GCCAA G G GAG G C C G G G GAAGAGAAGGAAAACCAA GAAAAA $C \subset A G C C A A C C A A C C G G A A A A A A G G C C G A A A G G G G A A G G C G G G$

G GAGGGAGTTAAACGAAGGGGGGGGGGGGGGGGGAAAAGGTT

 A G G GAA A GAGCCAAGGGGAAAACCAGACGGACGGGAGGGGAA GAGAGGAGGGGGAAAATTGGAAGGAAAGAGAGAAAAGATTGG1 A A G A A G G G A A T TA GACGGCAGAAGGGAACCGGGGGGATAC G G A A A A A A A A A A A A G GAGAAGGGAAAAAGGAAAAAAAAAA GAAA G G G G A A A G G G G GCCAGAGGGAAAGAGGGGGGGAAGAGAAC GA GAGGGGAAAGGCAGAAAAGGCAGGGGAGGGGGAAAAAAGGTT AAAGAGAGAAGGAAGGCCAAAGCCCCAGGGGAGAAGAGGAGG AACCGGCAGGGGCCAAGGAACCGGGGAGAGAAAGCCGGAGAG G G GA G A A G A G C C G C G G A G C C A A A G G G G G G G G G G G C A A G G A C C C C CAC $\mathrm{C} G \mathrm{G} G \mathrm{G} G A A C \subset A G G G A G A G G G A A A G A G C A A G A A A G G G G A$ GAGAAGGAAGAACCGGCCGGGGGGGGAAAAGGCACACAAACC C C G G G A GAGAAAGGCGAGAAAAAAGGCAAGGAGAGAAGGGCA A A GAAAGGGAACCAGGAGGGAAGAGGAGGGGGAGAGCCAAGA
 G G A A A A G G A A A A G G A A G G G G G G G G A C G A A G A G G G C C G G A G G G $A C A G G A A A G G A A A A G G C C A G G A G A C C G G A G C C G G G A G G A A G A$ G G G G G A A A GAGGGGAACCGAAAAAGAAACCAAGGCCGGCAAA AAGGGGAAAAAAAAAACCGGGGAAAAAAAGGGGGGGAACCAA A A A A GAGGGAGAGGAAACTAAAAAAGGGGAGAAGGAAAAAAA G G G GAA $A \operatorname{GAAAAAAACAGACCGAAAGAGGAAGGAAAAGGAACC}$ C CAA $A G G G A G G G A A A C G G A A A G A A G G G G A A A A C C G G G G A A G G$ AAAAGGAGGGAGAAGAAAGGCGGAGGAAGGACAAGGAGAGAA $C \subset A A G G G G A A G G A A G G A A A T G G G G A G A A A A A A A A G G A G A A G G$ G GAGAACCAAAGCCGAGGAAAAAGACCCGGCCCAGGAAGAGA G GAGCAAAGGAAGGGGGGGGGAAAGAACAGAAAGGAGGAGAA A A A G A A A A GAA A A GAAAAAAGGACAAGGGGGGGGAACAAAGA G G G GAAAAAAAAAATTAAGGGGAATTAAAAAACCGGCCAAGAG A A A G T T C C G G G G A A G G G A G G G G G G C C G G G G A A A A G G A A C C T T G GAAGGGGAAAAGGGGTTGGAACCAAGGAAAACCAAGGAAGG G G G G A A G G A A G G G G A A G GCCGGGGGGAAAAGGAAAAAA G GAA A A G G A A G G G G A A A A $\mathcal{A} G G G A A A A A A A A A G G G G A A G G G G G G G G G G$ G GAA A G G A A A A GA $A \operatorname{GGGGAGGAAAAGGAAAAAGGGGGCAAACA}$ GAAGGGCCGAGGAGAAAGGGAGAGAAGAAAAAAAGGAAAAGAG G G GAGGAGGGCCAAGGCCGGAAGGAAAAGGAGGAGGAAAAAA $C C G G A A T A A A G G A A A A A A A G G A G G A G G G G G A A A A A A G G G G G G$ G G A A C A G A G A A G G G C C G G G GACAAGGCCAGCAAAGCCCACAA
 AAGGTTAGGGAAAAGGGGAAGACCCAAAGGAAAAAACCBGAG G G G G G A G A A A A C A G A A G G A G A A G G G G G G G G A G G G G G A G A A G G A GAGGAGAAGAAAACCAGGGAACAAAAAGGGGGGAAAGAAGA G G GAGGAC GAAAAAAAAAAAAGGGGGCCGAGAAAGAGAAAAA G G G A C A G G G G A G G G G G A G A A G G G G C C C C G G G G A A G G A G G A G A G GAGGGGACCGGGAGAGGAAAGGAAAGGGGGGAACCCCAAAA A A A A A GCCAA G G G A A A A G G G G A A G G G G G G G G A A A A G G G G G G A A C CAAAAAAAAAAAACCGAGGGGAAAAAAAAAGCCCCTTAAAG AACCGAGGGAAGCAAAAGGAAAGAGGGGAAAAAAGAGGAGGA G A A A A A G A A GAGAGGGAAGAGGAAAAGAGGAAAAAGAAATCC C CAGAGCACCACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA C G GAGGAGGACCACGGAACAGGAAGGGGAAGGAAGGAAAAAG A G G G A G G A A A G A A G G G G G A A A A G G A A A A A A G GA GAC G GA GA G A GAAACAAAAGAGGAAAAAAGGGGAGAGGGCCTTCCGGAAGAG A A G GCAGACCCCAGGGGGGAGGGGCCAACCAAGGAGGAAAGA
 TTAAAACAGAAAGGAAAAGGCAGAGAGGACGGAAAGAAACGG $G G A A A A G G C C C A G A G G A A G G G A C C A G C C G A A A G G C C A A C C G B$ $G G A A G G G G C C G G A G G A G G G G G G A A C C G G G G G G G G G G A A C A A A$

G G G GAAAACCGACCGGGGAAGGAAAGAAAACGCAGGGGAGAA G GCCA $C$ G G G A A G G A A $\mathcal{A} G A A G G G G G G G G A G G G G A A A A A G G G G G G$ A G G A T T A A G GAACC G GAA $A \operatorname{ACCC} G G G G A C G G G A G G G A A G G G G G$ A A A A G GAC G GAAAAGGACGGAAGGAAGGAAAACAGGAAACAA AAAAAGGGAGAAGGGGAAAGCCGGAAAAGAAGGGAGAAAAAA
 A A A A A A G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A G G A A G G G G A A G G A A G G A A G G A A$ G G G GAA A G G GAA A G G G G GAAAAAGCCAAAAAAGGGGGGAAAA G G C C G G A A A A T T C C A A G G G G A A A A A A A A G G G G G G G A A A A G G G G G A A A A G GAGCCCAGACAGGGGGAAGGACCAAA GAAAGGGGG GAGGAAGGGGGGGGAACAAAAAAGGAGAGGAAAAGGGGGGAA GAAAGGACGAGAAGAATTAAGGGCGAAAAAGGGGAAAAGAAA A G G GCCAAAAGGAAAAAAAAAAGAAACCGAGGAAGGCAGGAA $G G A G A A G G A A G G G G A G A A A A G A A A A G G G A A G G G G A A A A G A C A$ G G G GAGGGAAAAAAAGCCAAGGAGGATACAGGAAGAAAAGCC A GAGAAGGAAAAGGGGGGGGAAAGAGAAAGAGCGAAGGGGGG G G A A A A A G G G A A A G G GACGGCC GAGGGAGGCC GACCAGGGGG G G A A A A G G A A G G G G A A A A A A A A G G G GAAAAAAAA A G GAAAGGG G G G G G GCCGGAAGGAAGGGGAAGGAACCGGGGGGGGAAGGGG G GAA $A \operatorname{GCA} A A C C G G G A A A C C G G A G G C G G A G A A G A G G G G A A G G$ GAGGAGGAAAGGCCACACAAAAAAAAAACCGGAAAGAACCAG
 A GAA A A C CAA $A A G G G G G G G G G G C C A A A A A A G G A A G G C C G A G A$ A A CA A G G G G A G G A A C C G G A G G A A G G G G G A GAGGGAA A
 G G G G G A A A A A G G A A GAGGTTTAGAGGGGAGAGAAAAAAAAAG G GAGGAGGACGGACACGAGGAGGGAGGACCGGGGAGAAAAAG A G GAACGGGGGAAAAAGGAAAAAAGGGGGACCGGAAAAGGAA G G G G G A G G G G G GAACCAAAAAGGAGGCAGAGAGAGAAGAAAG GAGGAAAAGGAAGGGGAAAAAAAAAGAAAAAAAGAAGGAGAG CACCGAGAAACCAGAGAGAGGGGATAAGGAGGGGAGGGAAAG G G GATAGGCCAAAAGGAAGGGGGAAAAGAAAAACAGCAGAAG A G GAAACCAAAAAAGAGAGAGGGAGGGGGGAGAGAGGGAAGA GAGGCAAAAAAAGGAAAAACCCGGGGGGGAGAGAACAAAGAC A CAAA $A \operatorname{GGGAAAAAGAGCAGGCAAGAAAGAGGGAGAAGGGGCA}$ GAGGAAAACATTGAAGGGAAGGATGAGGGGACGGGGGGACAG
 G GAGGAAGAGGGGAAAAGAAGGAAAGAAGGAAAGGAAACAAA ACGGAACCAAGGGGAGAGGGCCAAAAGAAAAAGGGGCAAGEG
 $G G G G A A G G G G A A A A A A A A A A A G G G G G G A G G G G A G A A A G A A A G$ C C G GCCAAAAGAAGGAGGGAAGAGCAAAGGGGATAAAAAAAG G G G GAGAAAAAAACAGAAGGAAGAGAGGGGAGAACACAAAAG AAAAAGGAAAGGAACAAGAAGGAAAACCGGGGAACACAGAAAA $A G A A G C G G G A A A A A G A A A G G G G A G G G A A A A A A G G C C A G A G A A$ G G G G G A G G A G G A G G A A A G C C C C A A T TAGGAGGAAGGAGAAAA AAAACAGGAACCGGAAGGAGAAAAGGCCAAGGAAAAAACCAC A A A A A A G G G G G G G GAAA A G GAA A G G A A A A GAAAAAA A GA GAA AA $A \operatorname{GAA} C \subset G G G G G G G G G G G G G A A A A G A A A A A A G G A G C A A A A A$ G GAA A G G GAAAGAAAAGGAGGAAAAGAGCCGGAAGGAGAAAA A A G GAAGGCAGAGGAAAGCCAAGGGGCCAGGGGACCGGCAAA G GAGGGGGGGGAAAGGGGGGGGGGCCGGAGAGGAAGGGAAAA G G G G G A A G G G G G A G A A A A G G A A G G G G G G A A G G G G A A A A G G A A G GACGAAAGGAAGGAAAAGAAAGGAAGGAAAAGGAGAAAAGA GAAAGGGAAACCATACGGAGGGCAAAGAGAAAAAAAGAGAAA AAAAGGGGAACCAAAAAGGAAAGGAAAGGGGAAGGAGGAGAA AAGAAGAGAGAAAACCAGGAGGCCCAAAGGGGGAAGAAAAAG C A A A A A A A G A C C A G G G A A A A G A A A A A G GA GAAAAC C G G G G G A $C \subset G A A A G A G G A G G A G G G G C C G G A G A A A A G G G A A A A A A A G G A A$

G GAGAGAGGGAAAAAAAAGAGGCCGGAAAGGGAAGGGGAACC G GAA A A G G A A A GAGAAAAAGAGAGGGAGGGGGA GA GAAAGCC AACCGGGGGGAAAAGGGGGAAGAAAAAAAGGGGGGGAAAGAA A GAAAGCGAGAAAGAGAGGAGAGGACGAGGGAAGAGAAGGGG AAAAACGAAAAAGGAAGGAAACCCAAACAAGGGGGAAAGAAA
 G G G G A A C C G G A A A A G G A A G A G G G GC C A A A A A A G G G G G G C C G G GAGAAAAGGGGAAAAAAGCCGGAGAAAAGGGGACCAAAAAAA GAAGAGAAAACCGACCAAAGAGACGACCAGGGAAGAAAAGAG GGGGAGCCCCAAGGCCAAGGAAGGGAAGGGGGGGAAGGAGAG A GAAAGGAAAAAACGAGGGGAAAAGGCCGGGGAGGGCAAAAA G G G G A A G G A A G G G G A A G A A A G G G G A G C C A A A G A A A A G G G G A G A A A G A GCAAACAAGGAGAGGGGAAAGGGAGGGGGGGGBAACAC GAGAAAAAAAAAATAGAGCAACACGAGGAAGAGAAAGGAGAA A A G GAAAAAAAGCGGGACAGGAAAAGAAGAAACCAAAGAAAG G GCAA $\operatorname{CA} A A A A G G G G G G A G G A A A G G G G A A G G A A T T A A A G A A C A$ GAAGGAGGGGAGAAAAAGAGAGAGGGCCAAGGAAAAAAAAAA A A A G G GACGGAACCGGAACCAAGAGGAGGAGAATCACCCCGG $G G C C G G G A G G G G G G G A G A A T C C C C G A A G G A G G G A C C T T G G G G$ G GAA $A \operatorname{GA} A A A A A A A A G G A A C G A G G A A A G G A A A A G A A A A A C A$ G G GAAAGGGGAAGGAGAAAGACAGGGGGAAGGAAAAAAACAC GACAAAGGGAAGAAAGAAAGAGGACAAGGAAAAAGAACCCCA
 GAGAGGGGGGAACCAAGGCCGGGGAACCAGCACACCCAACBA A G A C A A G A A A A A A G A A G A A C G G G G G G G G C C G G A A A A A A G G A A A A A A G GAAAAGGGGCCGGGAAAAAGAAGAGAACCAGAAGGCC GAGGGGAGATAGAGAAGGGGCCGGAGGGGGAAGGAAAGAGAA G G G G A C G A GAGGAAGGGGAGAAAAAAAAAAGAAAAAAAAAAA G G G G A A A G G G G GCA A G G G GAAAAAAAAAGAGGGGCAAAAAGGCC GAAGCCAGAGGACCCAGGGGGAAAAGGGGGAAAGAAAAGGGG A A GA $\operatorname{A} A A G G G C C G A G A A G G A A A G G G G G A G A A A G G A G A A A A A G$ A GAAGAAAGGAAAAAAAAAGCAAAGGCCCAGAGGGGGGCCGG C CAA $A$ AAA A $A G G C C C C A A A A A A G A G G A G G G A A G G A A C C G G G G$ A A A A C C G G GAA $A \operatorname{GAA} A G G A G A A G A G G A A A G A G G G G G A A A A G G$ A GAGAAAAGGGGGGTTAAAACCGGAAGGGGGGAAAAGGAAGA A A A G G G G A A G A C A A A C G G G A G G G G A GACGAAAG GA GAATTAA G G G G A GAGAAAAGAAAAAGAGGAGCACAAGACAAGGGGGGAA G G GAGGGGACGAAACCGGGAAGGGGATAGGGGGAGGGGAAGA
 AAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGGAG AA GAGGAAAGGACAGGGACAAGAGACGGAAAAGGAGCGAAAA
 $G G C C A A A A A A G G G G A A A A T T G G G G G G G G G G A A G G A A A A A A G G$ A A A A G G G G A A G G G GAACCGGAAAAAAGGCCGGGGGGAAAACC C C T T G G A A G G G G A A A A T T A A G G G G A A G G G G A A G G C C G G G G G G G GCCGGAAAAGGAAAACCGGAAGGGGAACCGGGGGGCCGGGG AAAAAACCAAGGGGAAGGCCAACCGGCCGGAAAAAAAAAAGG G GAAAAAAGGGGAAAAGGAAAAAAAAGGGGCCAAGGAAAAGA G G G G G GAA $A \operatorname{GAA} C \subset G G A A A A G G A A G G C C A A A A G G G G G G A A G G$ A A G G A A A A G G A A G G G G G G G G A A G G G G C C C C G G A A G G A A A A C C A A A A C C G G A A A A G G G G A A G G G G G GCCAA A G GAAAAAA A GAA G G A A C C A A A A A A A A A A A A CCCCGGGGCCGGCAAAAAAAGGGGAA
 G GAAGGGGGGAAGAAGGGAAAAAAAGAAGGAAACGAGGGGGG G G G G G G G G A A A A A A A A A A G G G G G A A A GAGAACCAA G CACAA G A GAGCAGGGGAGCAAGGAAAAAGGAACCAGAAAGAGBACCAG A GACAAAGGAAAAAAGACAGGAACGAAAGGAGAAGGCCAA GA AAAACCAAAAGGGGGGAGGGGGAAAAAAGGAAGGAGBACCAA $A A G G G G A A G A A G A A A A A A A A C A G G G G A A A A G G G G A G G A A A A G$

G G GAAACCCCAACCGGAAGGAAGGACAAGATAAAGGGAGAGA AACCGGGGAAAAAAGGAAGACACCGGCCAAAAAGGAGGAAGB AAAAGGGGAAAACCCCGGCCAGAGAAGGAAGGGGGGCCGGGG G GAAACCACCAGGGAAGACAAAAAGGAAACCCGGGGAAAAGG
 G G A G A GAGAGGGGGCCAACATAAGGGGGAAAAGAAGGGGGCA
 CCGGAAAAAGAACCAGGAGGAACCCCAAGGGAAGCCCCAACA GAAAGGAAGAGAACAGGGGGGGAGAGGAAGGGAAAAACBGGA G GAA A GAGAGGGAAAAAAAACAGGGGGAGGAAGGGGAAAAAG
 A A G GAA A A A A A A G GCCAGGAGGAAAGAAGGAAAGAGAAAGGG G G G G G G G G A GAGGAGGAGGGAGGGAAGGGAAAAAAAGGAGAA G G A GA GAGGGGACAGAAAACAGGAAGGAAGCCAGGAAACCGB GGCCGGAGGAAGGGCGAGGGGGAAAGAACCGGGAAGGGGGAG $C C G G A A A A A A A A G G G G G G A A G A C C A G C A A A A A A A A G A G A A G G$ AGGGAAAAAACCCCCCGGCCCAACGAGGAACAAGGAAAATGG G GAGGGGGAAGGGAAAAAAAAAGGAAAGATGAGGGAAGAGAG $A G A G A G G A G G A A G G C C A A G A G G A A A A G G G G A G G A G A A C A A A G$
 CAGAGAACCCCCCACAAACCACGGGAAGAAAAAAAAGGGGAA A A G G G GCCGGGGAACCAGGGAGAAGGAGAGGGGGGGCCAAGA C C GAAAGGAACCCCGGAAAAAAAAAAGCAACCAAGGGAAAAG A A G G G G G A G G G A G G C C G G A A C A G G G G G A G A A A C A A G G
GCCGGCCGGAAGGGGCGAAAGGGCCAAACAGGGAGAACAGG GAAAAGCCGGAAGAAAAGGGGGAACAAAGGAGAAAACAGGGG G GACGGAAGAGACAGGAGAAAGGGAAGGAGGAGGCCAAAAAA G GAGAGAAGAGGACGGAAGGGAGAGGAAGGGAAAAGAAAAAA G G G GAGGGAGAGAACAGGGGAAAACCAAAGCAAGAGCAGACC
 A G G G A A A G A A G GAA A G G GAAAGAGAGAAAAGAGGCCAAAAAA

 A GAGAGAAAAGGAAAAGGGAAGACAGAGCCGGAAGGGAAAAB A CAGAGGAAAAAAAAAAAAAGGGGAAAACCCCGGGGGGGGGG $G G A A G G A A A A C C G G G G G G G G A A C C C C G G G G G G A A G G G G C C G G$ G GAA A G G G G G G GAAGGCCAAAAGGGGCCAAGGAAAAAAGAAA G GAA A GAA A G G GAAGGAAGGAAAAGGAACCGGGGAAAGAGAA A GCCAAAAAAAGGGAAAGAGGAAAAACAGGAAAAGGGGAA GA A ACC G G G G G G A A G A A A A GCAGAAACC GAGGAGAACCGGGGAG GGGAAAGAGAGAAAAACCGGAAGGAAGGACAGAACCCAAGAA G G G A G G A C G A G A G A G G G G G A A G A G G G A A A A G G G G G A G A A C G A GAAGAGGGAAGGGGAAGGGGAAGGAAAAGGAAAAGAAAGGGG $C \subset G G A A A A G G G G G G A A G A A A C C G G A A A A G A A G C A A G A G G G G G$ C C G G G A G G A A C A A A G G A A A A G GAA $A \operatorname{AGGGAA} G G G G A G G G A A A A$ A A G G G A C G G G C C G G G G A A A A G G G G G A A G G G G G C A A G G G A A G G G GAGAGAGAAGAAGGGAGAAGGAAAAAAGAGAGAAGGAAGAA A A G G G A A G A GAGAACGGGGGAATTGGGAGGAAAAGGCCCCAG A GAAAATTAACAGAATGGCAAAGGAAGCAAAAAAAGAAAAAG A A G G A GCCGGCCGGAGGGGAGGGGAGCCGGAAGACCAAACAG A A A G A A A G G G A A G G G G A A A A A A C A A G G G G G C A A A A CAA G G TA CCGAAAAGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAACA GAAGAAAAAAGGGGAAGGAAAGAGGGCCAAGGATGACCAAAA AAAAAGGGGAAGGGGGGACCGGAAAGACGAGAAAAAGGGAGG G GAAAGACAAGAAGAGAGAGAAAAGGCCCCAGGAGGAAAAAG GACAACAAGGAGAGGGGGATAAGGGGGGATGGCCGACAAGGA AAAAGGGACCAAGGGAGAAGGGCCGAGAAGGGGAGGGAAAAB GAAGGGAGGGAAAAGGAAAAGGGAGGAAAACGATACBAAGAAG AAGAAAGGGAGGAAGGAAAACCAAGGGGAAGGGGCCGGAACA

G GCAAGGGAACCAAAGAGGAAGGAAAGGAAGAGACCTTAAGA A GACAAAAGGGACCGGGAAGGAAGGAGGGAAAAACAAGEGAG GACCAGGGGGAAGGAAGGGGGGGGAAGGGAGGGAAAAGGGGA G GCCCAAGGAAAGAAGGGGGCAAGGAAGCCAGAGGGCAGGGG A GAGGGCAAGAAGGAAGGAAAAGGGGGAAAAGAGGGGAAAGA G G G G G A A GAGGGGAAAGGCCAAGGAAAGAAAGGAACGACAAG CAGGGAAAACCAAAAGGGGGGGAATTAAGAGGAAAGAAAGAA G G G GAACCAGAGAGGGAGAGAGGGGGAAAGGAGGGGACAAAG G G G G A C G G A G A A G G A G G G C C A G G A A A G G G G G G G G A A G G A C A C G GAAGGAAGGCCAAGGAAACAAACGGGGAAGAAGAAAACAAA $C \subset A A C C G G A A G G A A G G A A A A A A G G G G A A C C A A A A A A G G G B A A$ G G G G A A A A A A G GCC G GAGCCGGAAAAGGGGCCAAGGCCAGAA G GAGGGCAGGGGGAACAACAAAGGGGAAAGCCGAAGAGAAGB G GAGGGAA G G G A C C G G A A A A G G C CA A A G CA A A G G A A A A G G G G G GAGAGGGAAGAAGGAGGAAGGAAAAGAGAGGGGGAGAGAAG GAAGGACAAGCCGGAAGACAGAAGATAGGAAAAGGGGAAGAT CACCAAGAGGCCAAGGAAGGAAAAGGCAAGACAAACAAAAGG A GAGAA $A \operatorname{G} G \mathrm{G} G A A A A G G C C G G A G G G A A A A G G G A G G A A A A G G A A$ AAGGAAGGGGAGCAGAAAAGAGGAGGCCAGACAGAGGGGGGG
 AAGGGGAGGGGGAAGAAAAAGGAAAGAGAAACAGGGGACAAA A A GAAGCAAAACGAGGCAAGAAAAAAGAGGGGCCGGGGAAGG C C C C C CAA G GAAAAGGAAAAACAGGGGGAACCAAAAAGAAAA A A A A A A G GCCGGGGGGGAGGACAAACAGAGCCAAAGAAAGAA A GAGAAAGGAGAGAAGGGAGAGAGCCGGAAAGGAAAAAGGGG GACAAGGGGGCCGGGGGGGAGGAGAGAGCAAGAAGGGGAAGG C CAA $A \operatorname{GAA} A A G G A G A G A A G G C C G G A A G G A A A A G G A A A A G G A A$ A A G G G A G G A A G A A A A A C A G G G A A A G G A A A GAAA A A G G G A G G A $A C G G A A G G A A G G A A A A T T G G G G A A A G G G G G A A G G A A A G A G A G$ A A C C A A G G G G G GCCGGAGGGGAAAGGGGCCAAAACCAAAACC C C A A A A G G G G G A G G A A A A $\mathcal{A} G G G G A G A G G G A A A G G G G A A A A G G$ A A A A A A A A A G A ACATTCCAGGAAAGGCCAGCCAAAAAAAAGG G G G G A A G G A G A G G G G G G C G G G GAGTAGGAAAAGGAACAAA GA A G G G G A C A G A A GAA $A \operatorname{A} G A A G A G G A A G G A G A A A A G G A A C C G G G G$ A A A C A A A C G G A G A A C C G G G G A G G G A G C C G A G A G G G G G G G G G G
 GAAAGGCCAGAAGGACGGGGAACCAAGGGATTAAAACAAGAA G GA $A$ A A A $G A G A G G G A G A G A A G G A G A G A C G G A G C A G A A A G G G G$ A A G G G A G A G A G GAA $A \operatorname{A} A G G G C A G T T A A A G A G A A G A C A G G A A A A$
 A G G GCCGGCCCAGGAAAAAGCCACAAGGGGAAAAGAAGAGAG G A C A A A G G C C G G G G A A A G G A A G A A G G G A G A G A G G C A G G A C G G A G G G G GAAGGGGGAGGCAGAACAGAGAGGGGGAGACAAGACC ACGAAGAGGAGAGGCCAAGGAGAAAGAAAAGACAGGAAGGAC
 GAAAGGCCGGAAGAGAACGAGGAACCACAAAAACAGGBAAGG AAAAGGGGAAAAACGGGGAAAAGAGGAAAAAAGGAAAGAGGA A G G G A G GAGGGAAAAAAGGAGAGGGGAACCCCGACAAGCAAA C C A A A G G G A A A GAA A G G G G GAAGAGAGAAAGGCAACGAAAAA GAGGAGACAAGGAAGGGGACGGCAGGCCCAAGAAGGAAAAGB G G A A A A G GCC G A A A G G G G G G T T G G A A A A A A A A G G G G G G G G G A
 A A A A A A G G G G A G G A A A A A G G C C T T G A A A G A A G GA G G G G G A G G AATTCCAACCAAGGGGGGGGGGAAGGAAGGAACAAAAAGAGG AACAGGGGAAAAAAGAAGAGAACCAAAAAAAAAAAAGAAAGG GAAACCAAAAGAAACAAAAGAAGGAACCAAGGGGAAGGAAAA C C GACCAGCCAAAGGGCAAAAAAAGAGGGAGGGGGAABAAAC GAAACAAGAGAAAAGGAGCCGGCCAGGGGGAAAACAGGGGGG AAAAAAGGGAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGAA

AAACAAAAGGAAGGGGAACCGAAAGGAAGGGGGGAAGGAAAA
 $G G A A G G A A G G G G G G G G A G A A A A A G A G A A G G C A G G G G A A G G A A$ CAAAAA AAGGAAGACAAAGAAAGGAGAGGGGGAAAGGAAAAG G GAGACGGGGAACCGGAAAAGGCCACAACCGAGAAGAGAGAG A A G G A A C G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G A A C C G A A A A A A A C C G G A A G G G G C C$
 AAGGGGACGGAAGGAGAAGGGGGAAGAGCCGGAGACAAGGGG G G G G A A A A G GCCAC G G A G G GAA A GAAG GAA A G G G C C G G G G A A AAAAAAGGAGGGGGAGAGCCAAAACCAGAGAAGGGAAGAGCC AACCGGAAGGCCGGAAAAAAGGGGAAAAAGGGAGAACAACAG A A G A G A G G CA $A \operatorname{GCC} \mathcal{C} G G A G A G G G G A G G G A G G G C G A G A C A G A A$ A G G A G GAACAGGACGAAGGAGAGGCCAAAAGAAAGGAGACAA AACCGGAAGGAGGAAACCCCGGGGAAGGAAGGGGAAAAAAAA A A A A G G G A A G A A GAAAAAGGGGGGCCAAAAGGAGAGAAACAA GAGAAA $A \operatorname{A} G \mathrm{G} G A A G A G G A A C C A A G G G G G G A G G A A A G G G G A G G G$ C A A G A A A A G G A A G G G G GAGGGGGGAAAAGGGGAGAAAAAACC AA G GAAAAGGAAAAAAAGGAAGCCAAAACAAACCAAAGAGAG $G C A A C A G G A G A G A G A A A A G A A G C C A G A A A G G G A A A G G G A A C A$ $C \subset A A A A A G C C A G A A G A G G C A G A C C A A A A G G A A A A G G G G G G A G$ AAAGAAATGGAGCACAAACCAGGAGGAAACGGAGAGCCAAGA C CA A GAAGGGAAAAAAGGAGAGGAGCGGGGGGAACAGAAAAG G GAAGGGGGGGAAAAAAAGAGACCGAAAAAAAAACACCAGAC A G T A C A G G G A G G G G A A G G A A G G A A A A G G G GAA $A$ A A A $\mathcal{A} C$
AAAAAGGAAGGAAGGAAGGAGAACGGGAAAGAGAGAAAGAG A GAAAAGGACACAAAACCGAGGGGGGGGGAGGGGATAAAAAA $C \subset G G G G A G A A C C G G G G G A C C A G A G G G G A C C A G A G A A A A C A G G$ A A A A A GACAA G GA GAGAAAGAAAGGAAAGACCAGACGAGGGG AACCGGAGGAAGGAGAAAGGAAACGGTAAAAAGGAAGGAAGA AAAGAAGGCCAGAAGAAGAAAGGGAGAAGGAAGAGGAAGGGA CA $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAACAAAAAGTAAAAGAAAGAGGGGGACAGAAAG AAGGAAAAAACCAAGGAAAAAGGGAAAAAGAAAACCCC G GAA AAAAGGGGGGGAGACCGAAGAAAAAAAAGAAGAAGGCCGGCC AA A G G G G GAAAAGGAAAACAGAGACAAGGAAGGGAAAAAAAA G GACGGAAAGGAAAGGGGGGGGGGAAGGGACCGAGGAAGAGB A GAAAAGGAGAAGGAAAAACGGACAGACGAACAAAGAAGAGA G G GCGAAGGAGAGGGAGAGGGGAAGGCCGATAAAAGAAAAGG GGCCAAGGAAAAGAGGAAAACCGGGGGGAACCAAGAAAAAAA G G G G G G A A A A A A $\mathcal{A} G G G G G A A G G G G G G A A A A G G G G G A A A A A G G$ A A A A C CAATTGGCCCCAACCAGGGGGACGAGACAGGAAGGAG CAAGACAAAAAGAAAAGGAGAGAACCAACCAATTACGGAAGG A GACAAGAAACCGGGGGGGAGGGGCCAAAAGGGGCCGAAAAG G G G GAAGGAAGGAAGGGGAGCCGGAAGGGAGGCCAAAAAAAG $A G C C C C T A G G A A G G G G A A G A G C G A A G C A T A G G A A G G A A G A G G$ G G A A A A A A $\mathcal{A} G G G A A G G G G G G G G A A A A G G G G A A A A A A G B A G A G$ $A C G G A G G G A A A G A G A A A A G G A G A A G G A G A G A A G G G G A A A A A G$ G GAAGGGGGGGGCAGGCCGGAGGACCCCAGGAGGAAGAGACA AGGGACAGGAGGAGGACCAACCGGGGAAGAAAACGGCAAAAG A G G GCCAA $C$ G $\operatorname{CA} A G G G G C A A T A G A G A A A A A A C C A A A A G G G G T A$ G G G G G GCCAACAGAAGCCGGAGGGAAGAAAAAGAAAAGAACC GAACCAGAGAGAGGAAAAAAAAAGAAGAAGGGAATTCGAGAA AA $A \operatorname{GGG} \operatorname{GA} A A G A A A A A A G G G G A G A A G G G G A A A A A A A G G G A A B A$ C C A G A A A A GAGGGGAACCGGAAAAAAGACCGGACGAGAAAGG G G G GAAACAAAAGGGGGAGAGAAGCAGAAAAAATGGACGGAG C C A A A G GAGGGAAGAATTGAGGCAGAAGAACAAGGAAAGAAA A A A GAACCAAAAAGAAAGACACGAGAGAAGAAAGGGGGAABAA $G G A A A A A A A A A A G G A A A G A C G A A A A A A A G G G G A A A A G A A G A G$
 $A A G G G G A G G G A G G A A A A A G G G G A A A A G A G A A G G G G G G G A A G A$

A GACATAGAGAAGGCCAAGGGGGAGGAAAAGAGGGGCCGGGG G G G G G A G A G G A G A A A A G G G G G G A A A A G G C C C GCCAA G G C C A C C C G G A A A A A A A A G GCCAAGGAAGGCCGGAAAAGGGGAAGGCC G GAGGGGGAAGGCAGGGGAAAACCAAACGGCCGGGGGGAGAA G G G G G A A A GAGGGAGGGAGGGGCAGGAGGAGGGAGGGGAGAA A CAA $A \operatorname{G} A A A A A G G A A G G C C A A A A A A G G A A G G A A G G A A G G G G G G$ A A G G G GAAAAG $A$ A A A C C G G G G G G G GCC G G A A G G G G A A G G A A C C G G G G G G A A G GAA A G A A G GAA A GAAAAAAAGGGGAACCGGAAGA A A G G A A A A G G A A A A G G A A C C G GCCAAGGAAAACCGGGGACAA G G G G G GCCGGGGAAAAGGAAAAGGAAAAGGAGGAGACCAGAG G GAAAAAAAACCGGAAGGCAGGGGGGCCAGAACCGAGGAAGA A A G A A C C C G G A A G G A A A A A C G GCCACCCAAAA G GAA G G G GA A G G A A C C A A G G A A G G A A G G G G G G C C A GACAGGGGGCCGAAA G G A A G G G G G G G G A G G G GACCTTGGGGCGAAAAAAAGAGGAAAA G C GAGGGGACGCAACAAGGAAGGGGGGCCAGCAGGAGGAAAAA A G G GAGAAAGGGGGGGAAAAGGAAAGCAAAAGGAAAAAAAAG
 A A A A G GCCAAGGGGAAGGGGGGAGAGAGAAAACC G GAGAAGAG $G G A A G G C C A C G G A G A A A G C A A A A G C G G A G G A G A A A G G G A A G A$
 AGAAAAGGGGCCAGGGAAGGACCCGGGACAAACCGACAGGGA A A G GAA A G G G G GAAAAGGAGGAACGGAAAGGGAAA GAGGGGG G GAACCGGAAAAAAAAGGGGAAAAAGGAAAGGCAAAAAAGAG GAAGGGGACCAAAGCCAGGGAAAAAAAAAGGAGGAGAAGGAA

 G GAGGGAAGGCCGGGGAGAGGGAAGGAGAAGGGGGGAACAAA G G G A C A A A G G G A A A A C A A G GAGCAGGCAGAGGAGGAGGAGAC ACGAACAAAGACAGCCGGATGGAGGGAAAGGAGAAAGAAAGA G GAAGGGGGGAAGGAAAAAAAAAAAAAAGGAAGGGGAAAGAA A A G G G A G G G A A G C A G G A GAGCCACACAAGGAAGGAAGAAA G G AA G GAAAGAGAAGAGAAAAAGGAGGGGAGAGGCAAAGGGGAA G G G G A A C C G G G G G G G G G GAA $A \operatorname{GAA} A G G A A A A A A G G A A A A G G C C$ G G G G G GAAAACCAAAAGGGGAAAAGGAAGGAAAAAAGACCGG A A C C G G G G G GAAGGAAAACCAAGGGGGGCCCCAAAAAAAAAA G G A A A A G G G G A A C C A A A A G G C C A A G G A A G G A A A A A A A A G G A A AAAACCAAAAGGAGAGAAGAACGACAGAACGAGAAGGACAGAA AA G G GAAGCAAAAGGATAGGCAGGGGAAGGGGGGGGAGAACC G G A A G G A G A A G G G G A G G A A A G G G A A A C CAA A GAGGGCAA A A A
 AA $\operatorname{G} A A G A A G G G G G G A G G G C C C C A A G A A A A A C C A G A A G G A A G G$ G GCCAAAAAGGGCCAAGGGGCAGGAAAGAAGGAAAGAAAAGA G GAGGGAAAGAGGAGAAGGAAGGAGGAAAAAAAGCAAAGGGG A GAA A A G G GAACAACCGGAAAGGGGGAAAAAGCGAAAGAAAA A GAGGAAACAGGGAAAAGGGAAAGTAGAAGGGGGGGCCACAA G GAAAAGGAGCAAGACAGAAGAGAAAGAAGCAGGGAAAGGGG
 G G G G A A A A G G G GAAAAAAGGGGGGAAAAAAGAGGGGAACC G $A$ G GAGAGAAGGGGCGGAGAAGAAAAGGAGAGCCGGCCCAAAGA A A G G G G A A G G A A A A G G A A G A A G G A A A C CA GACCC G GAA G G G G ATAGAGGAAAAAGGAAGGGGGGCCAAGGGAAGAAAACAAAGG CCGGAGAGCAGAAAGAAGAACCCAGAAGAAGAGGAGACAGCC A A A A G G A A A A A A C A A G A A A A G G A A A A G GAA G GAAAAC CAGAA GAGCACAGAAGGTAAAACAACCGAGGGGAAGGAACCAAAAGB A A G G G GAAAACCAAGGGGGGGGGGAAGAGGAAAA GAAAGGGG A A G G A A G G A A A A A A G G G GCCGGAAGGAAAAAACCGAAAAA G G A A A A G GA $\operatorname{A} A A \operatorname{A} G \mathrm{G} G \mathrm{G} A A C C G G G G A A A A G A A A C C A A A A G G G G A G$ G G G G G GCAGACCGGCAAAGGGGGGGAAAAAAAAAAAGGAAAA GGAGAACCAAAAAAGGACATAGAACACCAAAAAGATAAATGA

GAGAAAGAAAAAGGGGGAAAGGAAAAGGGGAAAAGAAAAGAA CAAAAGGGGAAAACGGCCAAGAAACGCCCCGGGGAACAAAGG A A G G G GAACCAAAGATGAAGGGACGGCAGGCCCCAAAAAAAA G GAAAAGGAGCGAAGGGGAATTCCACCAGAGGCCCCAAGGGA AGCCAGACAGAGAAAGGAACAGCAGGAACCGGGAAAAGGGCC G G T T A A G G G GA A G GAAAAGGAAGAAAAGCAGGGGCAGAAAGA $G G A A A A A A G G A A A G G G G G G G A A G G A A G G G A G G A A G G C C A G A A$ A A G G A A A A G G G G GAGGGGCCGGGGTTGGACGGAGGCGGAAGA ACTAACAAGAGACAAGGGAAAAGGGGAGGGAAAAAAGGAGAA TTCAAAAGAGGAGGGAGGCGAGAAGGGAAGGGGGAAGAGGAA A A CAA A G G GAA $A \operatorname{AGGA} G C C G G G G G A C C G G A A G G G G A A A A G G G G$ G G A A T A A A A A A GAAAACCAAGGGGGGAAGGAAAAA GAAAA G G $G G T T A G G A G G A A A A C G G G C C C C G A G G G G G G G G G G G G A A G A A A$ A A G G G G G G G G A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{G} G \mathrm{G} G A A A A G A A G G G G G A A A A A A A A$ G G G GAA A GAAAAAAGGGGAAAAAAGGGAGGACAAGGACAGGG G GAAGGCCAAAGAAGGGACCAAAAGGGGACGAACAACAGAAA A GAAATGGTTGGAAGAAAGGAAAAGGAAGGGGAAGGCATTAA CAAA A GAGGGGGGGGGACGGGGAGAAGAGGAAAGGGAGAGAA AAGAACAAAAGGGAGACCCCAGGGAGAGAACAGGAAGGAGAC A A C C A A A A A A G GCCAAGGCCCCGGGGAAAAGGCACCAGAA GA AAAAGGGGGGAGGAAAAGAGGGGGAAAAGGGGGAAAGAAACC AAGGGGAGAAACAAAGAGAGAAACAGAAAAGGAAAAGCGGAA G GAGACGGAAGGGGGGAAGGGGAAGGGGCCAAAAAAGAAAAA A A G G G GCCAAGGAAAAGGCCCCCCAAAAGAAAAAGGG
GAAAAGGGGCCCCAAAACCGGAAGGAACCAACCCCAACCGG AAGGAAAAAAAAAAGACCGGGGAGAAAACAGAAGAAGAAAAG G G G GATAAAAGGGAAGGAAAAGGAGGGGGGAAAAGACAAAAA G G A G A G A G A G G G A G G G G G G G G G A A G A A A G A G G A G A A G A G G A A CAAGGGAAAAGGAAAAAATTGGGGCCAAGAAGCCGACCCCAG AACCAAAAAAAAAACCGAGAAGGAAGGGGGGGAAA GAACAGAA G G A A A A G A A G A A A G G G A A G G G G G A G G A A C C G A A G A T G G G G G G AAAAGGGAAAAGGGCCAAAGGCAGGGAAAAGAAAGGAAAGAA A A G GAAGGCCAAAGAGGGGAAAAGCCAGAAGAGGAACCCCGG G G A G A A G A C C A G G G G G G G A A A A A A A A A A C C A A G G G G G G C C G G G G G A A A G G GAAACCCCGGGGAAGGAAAGGAAGGGGGAGGGCC C A A A A A G A C C C C G G G G A G G G G G A A G G G A A G GAA A G A A G G G G G C CAA G GAAGAAACCAAAAAGAGAAGGAGGAAAAAAAGGCAAA $C \subset G G G G A A C C A T G G G A C A A A G A A G G G G A G G A G G A A A A G A A G G$ G GCGAACCAGAGAAGGTTGAAAAGAGAAAACCCGAAGAAAAG $A G G G A G G A A C A G G G G G G G A A G G G G G G G G A A G G A A G G G A B A A G$ G G G G A A A A C C A A G G G G G A A G G A G G G G G G G GAAAA A G GAAAC A A G G A C T T C G G G A G A G A G A A G G A A A A A GAGAAGGAAA GAAC CA A GGCCAAAAGAGGGAAACGAAGGGGGGAAGGAGGAAGGGGAGG A A G G A A A A G G G G A A A A A A A A G G C A G GAGGCGGGGAAAAAA G G G GAAGGCCGGGGAAGGAAAAAAGGAAAAAAGGAAGGGGAAAA T T A A G G A G G A C C A A A G G G G G G G G G A A GAAAA A G GAAC CAAA A G G A A A A G G A GCC GA A GAAAAGACCCACCAAAAAAAAG GAAT T AACATTGGGCAACCGGGGGGGGGGGGAAAAAAGGGGAACAGA GAGGAAAGGGAAGGAAAGGAGGGGGGGGCAGGGAAAAGCAAA G G A A A G CA $\operatorname{A} G \mathrm{G}$ GAAAAGAGGGAAGGGAAAAGAGGGGGAGAAAA
 CAAGGGAGAGGGGGCCAAAGAGGGAGAAAGAAAAGGCCCGGG GACCGGGGGGGGGGGGGGGCGGAAGGAGAAACCCCCGAAGAA A G GAACAAAAAAGGGGACGAAAGGACCAAAGAGAGAAAGAAA A G G G T A A G A G G A A GAGAC GAGGAAGAGAGGAAAGAGAAAAAT A A A A G A A A A G A A A A A A A A G GAAAGAGGAAGGGAATTCAGGGG G GAGGAAAAAGAACCAAGAAAGAAAAAACCCCBACCAAAAAA $G G A A G G G A A A G G A G A G C A G G C C A G C C G G G A A A A A A A A G A G G G$ G GAGAGACGAAGCACCGGGAAGAAAAAAACAAAGACGGGGGG

A A GAACGAGAACGGGGGGGGGAAGAGGAAGGGGGTAAAAAGA A A GA $\operatorname{A}$ GAAAACAAAGAGGGAACAGAGAGATCGGGAAGAGGCC AAGGAAAAAAAGAACCAAAAGGAGGAGGAAGGAAAGCAAAAA A G G G G G GA G GACAAAGGAGAAGAAGGGGGAGAAGGAAAGAAA G GAAA $A$ AA A G A A A G G GAA GAAAAATAAAAAAAAAAA AAGGGGC G GAGGGAACCGAAAAAAAGAGGGGAAAAAAAGGGGGGAAAAA $A G C C G G G G G A A G A A A G A A G G A G G G G G G G A A G G A A A A C C G G G G$ A ATTAAAAAAAAAAGGAAGGAAAAAAGGAAGGAAAAGAAAAC CAAGGAAACCGGGGAAAGACACAGAGAAAAAGGAAGAAGGGA G GAAAAAAGAACAAAAAAAGAGAGGAGGCCACAGGGAGCCGG T TAA A A G G G G G A G G G G A A A C G G GAGGAACCAGAGCAAAAGAG A GAAAGGGAAAACCACGGGGGAGCAACCCCAAACGGAACCTA A GAG $A \operatorname{GAG} \operatorname{A} A A G A A G A A A G G G A A T T A A A A G G G G A G A G A A A G A G$ $G G C C G G G A G G A A A A G G G G G G A A G G C C G G G G G G A A A G A A B A G G$ GAAGGGGGAAGGAAAAAACCGGCCAAGAAGGGGGGGGAATAA ACGGAAAACCGGGAGGGGCAGGAGAAGGCCAAAAAAGAAAGAA A A GAAAGAATAGAGAGGAAAACGGAAGGGAAAAGGAACGGAA GAAAAGAGCCGGGAAGGGGGGGCCCAAAAGAAGAAGGAAAAG GGGAGGGGCCAGCCAAGAAAAGGGGGAAGGAACCAAGGAACA C CAAGGGAAAGGAAAAGGAAGGAACCGGAAAAGAAAAAAAAA G G G GAA A A A ACCAAACAGAAGGAGGAAAGGGAAGGAAAGAAG G G G G GACCGGAAAGGAAAGGACAAGGGAACAGGGGGGGACAA G G G G A A A A A G G G G G A A A A G GAA A GAGGGGGAAGGAAGAACAA C CAGAGGAGGAAGGAGGAAAGAGGGAGGGAGAAAGGGGAAGAG G G G G A A G G A G G G C C G G A A A A G G A A G G G G G CA G G G A GA G G G A C G GCCGGGGGGAGACGAATGAAACCAAAGGAGGGAAGGGACAG G GAGGGGGGGCCAAAGGAAGAGGGAAAGAAGGAAAACAGGAC AAAGGGCCAGGAGGAGGAAAGAAGACAGAAAAAAAACBAGAA
 $G G A G A G A C G G A A A G G A G G A G G G A A A G G A C C G G A A G G G G A G A G$ A GCC G G A A G G A G A A A A G G T T G G A A G G C C A A G G G G G G A G G A A C C G G G G GCCCCAAAC GACAAAGGGGGACCGGGGGGAGGGAAAC T TCAAACCCCGGGGAAGGAAAAGGCCGGGAGAGGAGAGAAAA A A GAAA $A \operatorname{GAA} C \subset A G G A A G A A G G G A A A G G G G A A C C C C A A A A G G$ G G G C A G A A GAGGACGAAAGGAAGAGAAGAAAACCAGACAAAA C C G G G G G G G GCACACAAACCGGAGGAAGGAGGGAAGAGCGGG CAACGACAGAGGAAGGAAAAAAAAGGAAGGAAAAGGGGCCGG $C A C C A A G G A A G G G G G G G G G G A A A A G G G G G A C C G A A C A A G A G A$ G G A A G G G A A A G G A A A A G G T T A A A A A A G G A A A A A A G A A G A A A A $A G A A G G G G G G A G G A A C G G G G G A A G G A G G A G A A A A A G A G A C A G$ $G G C C A A A G G A A G G G G G G G A A G G A A G G G G A A A A G G G G C A G A C C$ AACCGGAAAAGGGAAAGGGAAGACCCGGAAGGAGAAGAAAAA AAAAGGGAACGAGAAAGAAGGAAGACAGAGGGAA GAAA GAAA CAGGGGGCCCAAAAGGGGAAAACGAGAAGAGGAGGGGAAGAG $A G A G A A A A G G G G A A G G G A A A A G A G A G A A G A G A G G C C G A A A A G$ GAAGAAAGGGAAAAAGAAGGAAGGGAGGAGCAGGGGAAAGAA AACACAGGGAAAGAGGAAAAAAGAGGGGGGAAAAAAGGCCBG TTTTCCGGAACCAAAGGAGAGGGAGGAAATGGGGGGAGAGAG A A G G G G G G GAGGAGGGGGCCGGGAGAGAGAACAAA GAGGGAA
 A A GAGGAAGAGAACAGGGAGGAAAGGGGGGAGAGAAAAAAGG A GAA A GAGCAAAAAGGAAGGGAGGAGAGAGACGAGAGGAGAA A G A G A A G G G G G G A A A G G A A G A A G G A A A G G A G G A A A A G A A A A A AAAGAAGGGGGGGACCACAGAGGAAAAGGGAAAAACGGGGCAA A G GAGAAGGGGGCCCAAAAAAAGGCAAAGAAAAAAAGAAAGG $A \subset A C G G G G C C G G A A A G A G G G G G G G A A A C G G A A G A G A A G C C A G$ GAGGGAGGGGCACCGGAAAAGAGGAAAAGAGGGACCAAGGCC $C C G G A A C C A A G A A A G G A A G G G A G A G A A G G A A G A G G A G G A B A A$ GGGACAAGGAGGCCGGAAAAAGGGGAGGGGAAAAGGGAAAAA
$C C G G A A G G G G G A C C C C G A A A G G G G A G G A G G A A G A C C G G A C A G$ A C A G A A A A A A A A A A C C G G A A A A G G A A G G A A G G G G C C T T G G G G G G G G A A G G G G G G G GAAGGCCAAGGCCGGAAAAAATTAAAAAA G GAAGGAAAAAAGGAAAAAAAAGGAAGAAAGAA GAAACACCC AAGACCGAAAAAAGAAGAGGAAAAAAAAGGAACCGGGGAAGA A A A A A ACCAAAAAAAAAAAAGGCCCCCAGGCGAGGGGAGAAA G GAGAA G G G GAAAAAAAAAACAAGGAAGACAAGGGGGGCCBA $C C G A G A G G G G A A A A G G G G A A G A G G A A G A C A A G A A G G A A G G G A$ A A G G A A A A A A G GACAAAAAGGAGGCAAAAAAAGGGAAGACGG $C G G A A A C C G A A G G A G A G G C A A A C C A A A G G G G G A C A G C C G G A A$
 GAATGAAGCGCCAGAGAAAACCGGAGGAAAGGGGGGAGAGAG A GCCAGAGCACAAAGAAAGGGACGAGGAAAGAGGGAGGAGCA A G G G A G A A G G A A G G G G A C A G A A A GAC GACA A A A A T T G A A A C C AAAACACCAAGGAAGGAAAAAAAAGGGGAGAAGGAGGAAGAG AA $A G G G G G G G A G A A C C A A A G G A A A G G G G G G G G G G G G A A C C G G$ A A G GCCCCGGGAAGGGAAAACCAGGAAAGAGAGAGGGAGAAC A GAGAGAGAAGGAAGGGGGGAAAAGGAAGGAGAAAACABAAA $G G G G A G A G A A G A G A G G G A G G G G A A G G A G G G A G A A G G A A A G A A$ G G G G A A G G G G A A A A G G G G A A A A A A G G A A G GA A A A GA G GAAA A G G G GAA A A A A A C G G G G G G GAGGAGAACCAAGAAGGGGGAAG G G G A A A C A A A A A A A A A G G G G G CA A A A GAAGGAAG GA GAAA G G G A G G A G G A G A C G A G G G G A A C C T TAA A A G G G A A A G GAAAA $A$ A A A A A A A G A G G A A A GAGAACAACAAAAAAGGAGACAACGC
CAAAGAGAAGACACCAGAGGGGGGGAAAAGGAAGGAAAAAG

 C C G A A A G G G G G A GATTCCCCAGGGAAGGCCAAGGGGAAGAAA A G G GAAAACCGACCAAAGGACAAAGAAAGGAGGAAGAAAA GA $A G C C A G G A A A G G A A G G G A G G A G G A A G G G A G A G G G A A G G A G G G$ A GAGAGAACCCCACGGCAGGAAAGGGAAAGAAGGGAGAAA G G AAAAGGGGGGGGAGCCGAGAAGCCGGGAGGAGAGAGGGAAAA AACCGAGGGGGAAGCCAAAAAAAGCCGGAAAAAAGGAAAACC G G A A A A G G A A A A A A A A C A G GAGGAAGGAAACCAGGAGAAAAA AACCCACCATGGGGAAAGAAGGAACCAAGGAAGGGAGGAGAA G G A A A A G G A A C CAA A G G GCCAAAAAAAAGGGGCCAAAA G GAA A A GAAA A A A G GAA $A$ A A A A A A GGGAGAGCCGGGGGAAGGGAAAC AAAGAAGGGGAAAAAAAAAAAAGGAAGAAGGAAAAGAAAAAG GAAAGGGAAAAAAAACCCAGGAGGAAAAAAGAAAGGGAAAAC G G A A G A A A G G G G G G A A G G A G A A G G A A G G G A A A G G G A A G G G G G GAAAAAAGGACCGGAAGGAAGAAGAGAGAAAAGGAAGAAAAA
 A A G G G GAGGGGGAAGGGAGGGGAAAAAAGGCCAGAGGGAGGG G G G G A GAA $A \operatorname{GA} A A A A G \operatorname{A} A A A A G G G A G G G G A A A A A A G G A A G A G A$ GA $\operatorname{G} G A A \operatorname{A} G \mathrm{G} G \mathrm{G} C \subset \subset A A A A A A A A A A A G G G G G G G G G G G G G G G G G G$ C C G G G G G G G G A A A A A A A A C C T TAA A G G G G G G G A A A A G G G G G G G GCCAAAAGGGGGGGGAACCAAAAAAAAGGAAAAAAAAAAAA A A G GAA A G A A A A G GCCAAAAAAGGGGGGAAAACCGGAAAAAA AAAA A $A$ A A $A G G G G G A A G G G G A A A A A A G G A A G G A A A A C C A A G A$ C C G G G GAA $A \operatorname{GAA} A G G G G C C C C A A G G G G G G G A C C A A A A G G A A A A$ A ACCAAAAAAAAGGAAAATTCCGGGGAACCAATTMGGGGGGG G G G G A A A A G G G G G G G G A A G GAA A G G G A A A A A A A A A G GAA A G A A G G A A C C G G G G G G G G G G G G A A G G A A C C G G A A G G A A A A G G G G A A AAAAGGGGAAAAGGAACCAAAAAAGGAAAAGGGGAAAAGAAA AA $A G A A A A G G A A G G G G A A G G A A C C G G C C G G G G G G A A A A A A G G$ A A G G G GAA $A \operatorname{G} \operatorname{GA} A A A A A A A G G G G A A G G C C G G A A A A G G G G G G G G$
 A A A A G GC C A A G G G G G G A A A A A A C C A A G GAAAA G G G GC C C C A A $G G A A A A G G A A G G G G G G A A A A A A G G G G A A G G A A C C G G A G G G C C$

ACAACCCCCCAAGGAAAAGGAAGGAAAAAAGAAGGGAAGGGG $G G C C A A A A G G A A A G G G A A C C C C A G G G A A C C G G A G G G G G A A A A$
 A GAGGAAGACGAAGGGCCGGAGAGCCAGGGGGAAGGAAAAGA A A A A G GAAAAGGGGGGAAGGCCAACCGGGGAAAAAAGAAAAA G G G G A A G G A A A A A A G G A A A A A A A A G G G G A A G G A A G G G G G A G G
 GAAAGGAGGGGGAAGGAAGGAGCCAAAAGGAAAAAAGGGGGG AACCGGAAAAAAACGGAGAAGGAAGGAGAGCCGACCGAAGGG AAAGGGAAAAGAGGAACCGAAGGGGGGGACGACGGAACAACC A A GAAAAAACAAGAAGAGGGACACGGCAAGGAGGACAAAGAG A A A A G A A G A G A A G G GAAA $A \operatorname{AGGGAACAGAGGAAAGAAAGAGAG}$ C CAA A G G GAA $A \operatorname{A} G A A A A A A G G A A A A G G G G G G A G G A G A C A G A A G$ GAACAGAAAAAAAGGGCAAGACAGAGCAAAAAAAGGAAGAAA G GAA A ACCGGGAAAGGAGCCGAGGAGGGAAGGGGGGAAAAAA G GAAGGCCTTGGCCCCGGCCGGAAGGGGAAAAGGGGGGAGAA G G G GAACCGGGGAAAAGGAAGGAAAAGGGGAACCGGGGAGAA A A G G GCAGGGAAAGAAAAAAAGAGGGACCAGAAGGGGAACAA AA G GAAGGCCAAGGAAAAGGGAAAGGGAGGGGAGGAGGAGAA GAAGCAACAAAGGGAGAGAAAAGGGGCCACAAGAGAAGATAA A A A A AC GAAGGGGAAGAAGAAGGAGGAAAGAACCAGAAAAAG G GCCAA $C$ G G G A A A A A A G GAAAC GAGGGGAGAAA GTTGGTTAA G G G G A G A A G G A A G G G G G G G G G G G A G G G G A A A A G G G G A A G G G A GCAGGGGAACGGGGGAGGAGAGGGGGAGAAGGGAGGGGGGGG G G G A A A G G A A G G G G G A A G G G G G A A A A A A G C GAG G T TAAA A A A AC G G GA A G G G G A A A A A A A C C G G G GAAACAAGGA G G G G G G A A G AGACAACCCCAAAAGGGGGGCCCCCCAAGGCGAACAGAGGGG A G G GAACCAGAGAAAAAAAGACCCGGAACAGAAAGGAGCCCC GAAAAAAAGGCCAGAGAAGAAAAGAGAGGAGAACAGAGAACA A GAGAAGGAAGGCCGGCCTAGGACGAAAGGGGAAAGAGAAGAG $G G A C A A G G G G A G A A A A G G A A A A G G A G A A G G G A A A A A A A A A A G$ CAAAGGAAAGAGCCCCAAAAAAAAAAGAAAAAAAACGGGGGG G G G G G G A A A A A A G G G G G G G G G G A A A A G G G A A A G A A A G A A A G A A G G G A A A GCCAAGGAAAAGGGAAAAGCCCCAAGGACAGAACA G GCCAGAACAGGGGAAAGAAGAGGAAGGCCAGAGGAGGACAA A A G G G GCC G A A C A A C A A A A A A A A A GGCCAG GAGACCAA G G C C A GAGAAAGTTAGGGAGGGGGAAGGAAAGAAGGGAAACCAAGA AAAAAAACCCAAGGAAGGGGGGCCAAGAACAAGGGAAAAGAG A G A A G A A G G G T T G G G G A A G A G A GAGGAAAAAAAACCGGAA GA A A G G G G G G A G G GAAA $A \operatorname{A} G A C A C C G A G G C A A A C C A A A A A A G G G G$ C C C CACGGAAAAAAGAGGACAAGAGAAACCAGGAGAGGAGAA A G G G A A C A C C G G A A A A G G A A G G A C T T A A G G G G G G G G G G C C G G G G G GAA A G G GAAGGGGGGAAAGGGGGCCGGCAGGGGAGGGGG CAA $A \operatorname{G} G A A G G G G G G G A G A G G G A G G C C C C A G G A G G A G A A G G A G$ G GAA $A \operatorname{GGG} A A G A C C A G A A G G A A G A G G G A C C C A G A A A A G G A G G$ A A G G A A G GCC G GAGGAGGCCAAAAAGAAGATTCCGAAAAA G G A A T T G G A A G GCCGGGGTAAAGGCCGGAAAGGGAAAAAAAAAA A GAAAACCGAGACCAGAGGAAAACGGAAGGGAAGAAGGEGAA A G G GAA A A G GAAAA AAGGAGAAGGGAGAAAAGTTAAAGAGAA G GCGGGAGGAGAGGAAAGCAGGAAAAGGGGAAAAGAAAGGCC $A \subset A A C C A G G G A A A A A A G G C A G G A A G G T T C C G G C C A C A A A G C G$ AGCCCCGGAAAAAACCAACCCCAGAAGGGAGGGAGGAAAAGAG G G A C G G G G A G A G G G G G G G G G A A A A A G A A C C A A C A G G G A A G G A G G G G G G A A A C A A G A G G G G G G A A G A G G C C G A G G C C A T G G G G A A $C \subset G G A A A G G G A A A A G G G A A A C C A A G G A A A A G G C C G G G G A G A A$ GAGAAGGAGGGAGAAGACAGGGAGAGAGAAAACCCCAAGGAA C C G GAA A G A A G GAA $A \operatorname{GGGGCCAACACCAAGGGGGAGBAACCGG}$ A A G G G GAA $A \operatorname{GAA} A G \operatorname{A} A A A A A A G G A A C C G A G A A G C X A A G G G G G G$ AAAGCAAAGGGGGAAGGGACAGAAAAGGAAAAGGCAAGAABA

G GAAA A A G GAA A A GAGGGAGGGAGGGGGGGGAAGGGAAGGAG A A A C GAGGGGAGAAGGGAGGAAAAAAAAGGAAGGAAA GAAAA $A$ AGAGACCCGAACGACAGGAAGGAGAAGAGAGGGGGGAAGGGA A GAGAC GAGGAGACAACCCCAACCAGCCGGACGAGAAAGGGG GAGGAGCAGGGAAGCCGAGACCGGAAAAAGACAAATGGGACC A G G G A G A A A C G G A A G G G G G G G G A A G G C C C C C C C A A G G G A C A C C CAGCCAAAAGGGCAGAAAGAGGGGAAAAAGGAGAAAAGGAA GGGAAGGGAAAAGGAAAAAACCGGAAGGAAGGAAAAGGAGAG A A G G G G A A G A A A $\mathcal{A} G G G G G G G G A A G G A A G G G A A G A A G A A G G G G$ GGAACCGGGGCCCAACGAAGGGTAAAGAAGAGGAGGAAGGGG AAGGGAGGCCAGACCAGGGGAGGGAGAACAGAGGAGGAAAAA A GAACCAGGAGAGGAATAAGGGGAGGAAGGAAGGGAGAAAGG A A GAGAAAAGAAAAAAGAAGGAAAGGAGGGTTCGGGAAAA GA A A A G A A A A A A A A A C GAAAAAAAAAGAAAGGACAAAAAAAAAC GAGACAAAAAAGCGAAGGAGAAACAGGAAAGGAAGGGACGTT G G G GAA A GCAGGAAACAGAGGGGGGAAA GAAGGAGGAAAGAA A G G G G G G G A G A CAA A A T T A A GAGAGGCCGGGAGGGACC G GAA
 GAGGGGAAAAAAAAAAAAGGAAAAAGGGGAAGGGAGAAAAAA G G G G C C A A A A A G G A A A G G G G G G A A G G T T G G C G G G A A G G A G G A A G GAACACGGCCGGAAGGAAGGAAAAAGGGGGAAAGGGAAAG GAAAGGCCAAGGCCAAAAAAGGAGAGGAACAGGAGAGGCAGA A A G G GAA $A$ A A A A G GAGAAGAGGAGAGAGGAAAAGAGGGAAAA G G A A G G G G G G G G G G A A C C G G A GAGGGGAAGCAGAAAA
G G A G G A A G G C A A G A A G G G G A G G G G G G G A G A A A A G G GAAA A $\mathcal{A}$ CAGGACAGGGAGGGAAGGAAAAAGGGAACCGGAAGAAAAGGG A A A A A A G A T T A A G G G G GAGGGGGGGGGAAGCCAAAAAA G GAA A GCCGGGACAGAAGACAATTGGGAACAAGGAGAAAGAGAGGG AAAGAAGGAAAAGGACAAGACAGAAAGGAGGGGGGAAAAAAA A G G GAGAGCCGAGAAGAGGGGGGAGGAGAAAGAGGGGGCCAA A G G C C A G G A G A G A C G G A A A A C C G A A A A G G G G A G G A A G G G A G G AGGGGGCCGGAACCGAAAAAACAAGAAACAACGGAAGAAAAG $G G C A G A T T G G G G G G A A G G A C G G A A A G G G C C A A G G A G A A A G A A$ A A G G G GCAAGGGAAGAAAAAGGGGAACGAGGAAGGACCGAAA G G G A A A A GCACCGAACAGAAGAGAGAGGGAAAGGGAAGAGAA A A G G A A A G CC G G G A C C A A G G A A G G G G C C G GAA G G G A A A A A G G A A GAGAGGAAAAAGGGGGGGGGGGGGGAAAGGAAGAAAAAAG $A G T A G G G G A A A G G A A G G G G A A A G A G G G G C G C A A G G G G G A G G G$ A A G G A A A A A $\mathcal{A} G A G G G A G G G G G G A A A A G G A A A G A A B A G G A A G G$
 $A G G G A A A A G A A G G G G A G G G G G G A A G G C C G G C A G G G G G A A A A G$ G G A A G G G G A A A A G G T T A A G G C A G G G A A A A A GA G G G A G G G A A A
 A A G GAGAGGGGGAAGGAAAAAGAAAAAAACCCAAAGGAAGGG $G G T A A A G G G G A A A G A G C C G G A A G A G A G A A A A A A A G G A G G G G A$ GAGGCCAGGAAGGAGAGAGAGAAGGACCAAGGGGAAAAGGCC $A C G G A A A G G G A A C C G G A G A G G G A G A G G G G G G G G G G A A A G G A A$ A G G GACAGAGGAGGGAGGAAGAGGAAGGAACCGGGGAAAAGG A G G G G GAA $A \operatorname{GG} \operatorname{A} \operatorname{A} A \mathrm{~A} A A A A G A G A G G G G G C A A G A C A A A A A A G A$ G G GAGACCGGCCAAAAGGAAGGGAAGCCAAGAAAAAGAAAGG G G G A A G G G G G A G GAAACCGGGGGGCCAGGGAAAAAAAACCAA AAAAGGACCCAGAAGGTTAAACAGCAAGGGGGAAGAAGACAA AACCAGAAGAAGAGACCAAGGAAGGGAGAAGAGAGAAGAGAG AGGAAGCCAAGGGGGGAGAAAAGGAGAACCGGGGAAAAAAGG G G A A A A GAGGGGGGGAGGCGACAAAAAAAAAAGGCCAAACTT G G G GAACCACACGGAGAGCAGGAAGGGGAAGAAGAGAGCCCC AA $A G G A G G G A G G G A A A A G G A A A A A A A A A C C A A G G A A A A T A A G$ CACCAGCAGGGGGGAGAAAGAAAAAAGGAAAGAAGGAGAAAA G GAGAACAAGAGAAAAAACCGGCCGGAAGGACAAGGCCGAAA

AAACGGGAAAAAGGGGAGAGGGAAGGAAAGGGGGGACAGGAA A A GAGGGACCCCGGGGAAAAGGGGAAAAGAACAGAAAACAAA GAGGAAGAAACCGGGGTTGGAAGGGGAAGAGAAGAGAGGGGG AAAAGGAACCAAACGGACGAGGGAAGGGGGGGAAGGAAGGCC GAGGGAGGACTTACAGAAAAAGAGAGGGAAGGAACGGGGGGG $A G C C G G G G C C A A G G A A A A C C G G G G G G A G C A G G G G A A G G G A G G$ AA G G A A A A A A A A A C A A GAGGGGAGGAAAAACCAAAAAAGGCC AAGGAAGAACGAAAAGAGAAAAACACAAAGGGGGAAGGAAAA A GAGCCGGAAGGGGAAGAGGAAAAAGAAAAACGGAGGAAAAA AAGGAGAACAAGAGAACAGGGGGGCCGGAAGGAAAAGGACCG C C G GAGGGACAAAAGGAACCAAAAGGAAGACCAAGAAAGGGA CAAAAAGGAACGAAAAAAGGAACCGGAGAAGAAAGGAAAAAA G G G GAGGAGAACCCAAAGGAAAAAAAGAGAAAAACCGGGGGG
 AAAGGAAGAAGGGGGGGGGAAACAAATTCCAAGAACAAGAAA G GAAAAAAGGGGGGGGGGGGGGGGCCGGGGAAGGAACAAAAA A A A C G A G A A A G G A A A A A A A A A A A A GGGGGAAGGAATA GA G GA C CAATTGGAACCAAAAGGGGAAGGGGAGAAGGAAGGGGAGGG AAGGAAGGAAAACCGGGGAAGAGGGGGAGGAAGGGAACGGCC A A A A A A G G A A G G G G GAGAGGGAAAAGAGACAAGGAGACAAAA AAAAGGAGGGGGAACCAACAGACCCCAGAACGAAGAAGAAGG AAAGGGAGAAGGAGGGAGGAAACACCAAGGCAGGGAAAAACC GAAA A A A A GAAGAGGAGGCCGGGAAAAAGGAAGGAACCACAA G G G G A A G G A A G GA G A A G A A A A C A A G G C G G A A A G GACAA G G A G AACGCCAGCCCCCCGGCCAACCGGGGAGGGAACCCCAAGGAA AC GAGAGGAACCGGGGAAAAAAAAGGAAGGGGAAGGCCAA GA AACCAGGAAAAAAAAAAAGAGAGAGGGGCCGGGGCCCCACAAA A G G G A A A A G G G G G G A G A A G A G G G G A A G G T T C C G G G G C C C C A A G G G A A G G G G G C A A A A A G G G GAAA $A \operatorname{A} G A G A A A G G A A G G A G A A G G$ A A A A G GA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} \boldsymbol{\mathrm { G }} \mathrm{C}$ CAAGGGGAAAAAAAAAAAGGGGGGGGGG G G A A A A A A G G A A C C G A G G A A G GAGGGCCAAGACCGAAAAA G G A A A A A A A A A A A A A A AAAGGAACCCCAAGGAAAAG GAAAAAA G GAA A G GAGGGAAAGAGGGAGAACCCCCGGACGGCCGAAAGG A A G G G G A A G A A A G A A A A G A G G G G A G G A A G G G G G G G G A A A A $G A$ G G G G A A G G G G A A C C A A G G G A A A C C A A G G G G A A A G A A A A A G G G G G G G G GAATTGGGAGGCAGGGAAAGACAAAAAGGAAAAGGAA AAAAAGGGAAAGGAAAAGAAGAAAGGCCAAGGGGAAGGAACC GAGGGGACGAGGAGGGAAAACCGGCCGGGGAGGAAAAAAACC
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 GAGAGGCCACCAGGAAGGAAGGAAGCAAGAGGAACCAGGGGA A A A A GAA $A \operatorname{GGA} A A G A A G A C A C C A A G G G G G A G A A A G G A A G G G G$ G G A A A A A A A GAGGACCCCAAAGGGGAACGAACCCAGAAGGAG G G G G C C G G G G G G A A G G A A C C C C G G G G G GCCAGAA GAC CAAAA A A A G A A A G G G G G G A A G CAA $A \operatorname{G} G A G G C A G G G G A A A A C C G G G G G G$ $C \subset A A C C G A A A A C A G A A A A G G A A G G G G A G C C G G A A A G C C A A G G$

G GAAAAAAGGAGAGACAAAGGAAAAGAAGCCAAGGAAGGGG
 AAAAAAAAATGGCCGGCCGGAAAAGAAAAGAGAAAGAGCCGG AAAAAGGAAGCAGAAACCAGTAGGAAAAGGGGGGAGGGAAGA G G G G G A A G G GAA $A \operatorname{GA} A A A G G G A G A G G A A A A G G A G G G A A G A G G$ G G G A G C A A C C G A G G A A A G G G G G G G A A G G G G G G A G A G A A G G A G
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 T T G GAAAAGGAAGAGGAAAGGGAAAGGGAGAGGGGAACAAGA G GAAGGCCGCGACCAACGCCAGAGAGCAGGAAGGAGCCAGAA A A GAGAGAAAGGAGAAACGGGGAGGGGGGGAAAGAAGAAAGA GAGACCAGGACCAGAAGGAAAAAAAAAGAGAGCAAGAGAGAA G GAGCCAAAAAAAACAAAAGAAAGGAAGGAAGAGACGGAAAA GAAAGAAAAAAAGGGAGGAAAGGAGGCCGGAGAAGACCAAAG G G GAAAAAGGGGGGCCAGGAACGAAGAAGGGAGGGAGGAGAA GAGGAAGAGGGGAGAAGGGGAGAGGGAAGGGGAGAAAAAACA A G G A G A G A A A G G A G GAGGCAAAGGAACCCCACGAAGG
GCCGGAGCCCCAGAAAAAAAAAAGGCAGGAGGAGGGACACG AAAGAAAAAAAAGGGGAAAAGAGGGGCAAAACAAGGCAAGAA G GAA A GCCGGGGGGGGAGGGCGAAGAACGAAAGGAAAACAGA A GAAAACCGGAGAAGGCCAAAAAAAGGACCGGAACAAGACAT
 G GCAGGGGAACCGAGGGAGGAAGGAAAAGGAAGGAAGGAAAG
 A GAGGAAACAAAGGCCACCCGGAAGGACGGGAAAAGGGGGAG A A A A A A A GAGGGTTGAGGAAACGAAAAAAAAAGGGGGAAAA G ACAAAACATTGGCCGGCAAGAAGGAAAAAAGGCGAGAAACAA
 A A A A A G G G A G A A G G CACAGGAAAAGAGAGGGGAAAAAAAA G A A A G GAACCCCGAGCAAGAAAAAGGCCGAGGAGGGCCAGAAAAAG G G GAGAGGAACCAGGGAGAAAAGGGGAAAGAGAACAAGAAGAA
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 G GAA $\operatorname{G} G A A A A C C A A A A A A G G C A A G A A A A A A A A G G G G G G G G G G$ GAGGAACCAGCAGGAGGAAACCGGAAAAGAGGACAGCACCBA A GAAGCGGGAGGGGAAAAAAAGAGACCCAAAAGGGGAAAACC AAACAGACAGAGGGGGAAAAGGCCGAAGAAGGAAAAGAAAAC C C G G G G A A A A G G G G G GAGAACCGGAGGGAGGAAGA GAAAAG G
 G G G G A A A A A A G G G G C C G G G G C C A A G G G G C C G GCC C G A A A A A A GGAAGGCCGGAAGGAAGGGGGGGGCCCCAAAAAAGGAAAAGG

C C A A C C G G A A A A A A G G G G G G G G G G A A A A G G G G G G G G G GAAC $C$ A A G GAA A GAAAAAACCGGAACCCCAAGGAAGGGGGGGGAGCA
 $C C A G A G G A A G G G G G G G A C A G A A A A G G G G C C A G A G A G G A A G A A$
 A G GA $\operatorname{A} G C C C C C C G G G G A C G A G G G G A A G G G G G A G G G G A A G G G G$ AAACGACCACGAGGAAGGGGCAGGGAGGAGGGGGAAGAGAGG G GAAGGCCAAGAGAGATAGGAGAAAACAAGAGGGGGCAAAGAG A G G A G A G G A A G G A A G G A A G A A G A A G G GAGGGGGGCCAA G G A A G GAAGGAAAAGGGGGGAGGGCCGGGGAGGGAGGGGGAAGAAA GAGGGGAAAAAAGGAGAAGGGGAAAGGAAAGGGGCAAA G GAAA A A G G G A G G G A G C G G A G A A A $\mathcal{A} G G G G G G G A A G A A A A G A A G A G C C$ ACGGAGGGAGAGACGACCGGAAGGAAGGTTAGGAGAAGAGAA G G G GAAGACCGGAGACGAGAAGAAAAGCAACAAGGGAACGCA AAAAGGAAGGAGAGACGGAAAAGGGAAAAGAAAAAAAAAAGG GCGGGGACAAGGGGGGAGGAAAAACCAAGGAAGGAAAAAGAA GAGGAGGAGACCAACAGGGGCCGGGGAAAAGGGAACAAGGBA GAGGAAAGCCGAAGGACACCGGGGGGGGGGGAAAAGGGAAGG C C GAGGCCGAAGAGAGGAGAGAAAAGAAAAAAAAAGGCACCC GAACCCGGCAAGGAGAAAGGGGGGCCACCCGGAAGAAGAAAG AA G G G GAAAACCAAGGGGGGCCAAGGAAGGCCGGGACCGGGG A G G A G G G G G G A G G G A C G G G A G G G A A C A A G GAC G G A G G G C C G G A GAACAAGGGAGAGGGGGAAGGAGAGGGCCGGAAGGCCAGAG C CAAAACCAAGGGAAAAAACAGAGGGGGACAACAGGAABGAG
 G G GA $\operatorname{G} A A A G G G G A A G G A A G G A C T A G G G G A C A A G G G G A G A A A G$ G GAAAA $A \operatorname{A} A A A A G A A A A A A C A A C C G G A G G A G A G A A A G G G G G G$ A A A G G A A A A G G A G A A A G GAAA $A \operatorname{AGGGAAAGGGAGGGGAAAAAA}$ A GAGAGGGAGGACCAAGAGGAAGGGAAGAAAGACAAGGAAGA CAGAGAAAGAGAAGGAGAAGCCGGAAGGAAAAAAA GAGGGGA A G G G C C G G A G A G A A GAGAAAGAGGGGAAAAAAAAAAGAAGAA G GAGGAAAAGAAAGGGGGGAGAAGAGAGAGGGAGGAGAAGGG GAAGGGAAGGGGGGGGGGGGACACACGAGGGAAGAGAAACAA A GAGAGAAGAAAAGAAAGAAGGGGGAAAAGGAAAAAGAAGAA A A G G A A A GAGGGCAGAGGGGCCACGAAACAAAAAAAGAAGAC GACAGGGAGGAAAAAGAAGGAAGGAAGGGGGGAAAAGGAACC G GAAAAAAGGGGAAGGGGAAAAAAAAAAGGGGGGAAAAAAAA


 A GAGGAGGACGGAGAAGAAGAAAAGAAGGAGGAAGAGGAAGB A GAAA A A A $\mathcal{A} G G G A C A G G A G G A G A A G A G A A A A G G G G G A A A C G A$ GAAACCGGAACCGGCCGGCCAGGAAGCAGAGAGAAAGGAGGA ACAAA $\mathrm{A} A \mathrm{~A} A \mathrm{~A}$ A ACAACGGAGCCAGGAAAAAAGACAGAAAGGG CAAGGGGACCGGGGGGGGGGAACCAGAGGGGGCCACGAAAGG GAACGGAGAAAGAAGAGAGGACAAGACAGGAAAGAGGGAAAG GAGGGGGGGGGGAAGAAGGGAGGGGAGGCCAAGGAAAAAACAC G G A A G G A G G A A G G G G G G GCACAAAGGGGGAAAAAAACAAAAA GAAAGAGGGGATAGCGGAAGAAAAAAAGAGAAGGAAAAGCCC AAAAGGAGAGAACCGAGGAGGGGAAAAAAAAAAAAAAAAGAG $A G G G A A A G G G G G A A G G G A A G A A A C G G G G G G G G A A G G A G A A G G$ AAAAGGGGAGGGAGAGGAAAAAAAAAAAAAAAAAAAAA GAGAA A A G G G G A C A G A A A A G GCC G GAGAAGGGGAACAAAACGGAGGA AAAAAAGAAAGGGAGGAAGGAAAGGGAGGGAGGAGGGGGGGG A A A A A A A A G G A A A A C CAA $A \operatorname{AGGGGGAAGGAACCAAAAGGGGGG}$
 AAACGGGGGGGGACAGCCAAAAGGAAAACCGGAACCCCAGAA $A C \subset A A G G G G G G G G A A G A T A G G A A G G G A G G G A A G G A A A A G G G G$ $A G G G A G G G A A G G G G G A G A A G C C G G A A G G A A G A G A A G A G A G A G$

G GAA A A G G G GAGGAGGAAGAGGGGAAGGGGAGAA GAGAAGGG GACCAAACGGAAAAAGGAAAAGGGCCCAATAGGGAAAGAAAG
 GAAAGGCCAAGGGAAAGGAAGAAAGGAAACGAGGAAAAGAAA AAGGAAAAAAAAGGAAAAAAAACCCCACCCAAACAAAAAGGG G GAAAAAGAAGGAGAAGGAAACGGAAGGGGTACCGGAAAGCC A A G G G G G A C C C C G G G G G G A A G A A GAGAGTTAG GAAAA G GA GA A GAGAAACGGGGAAGGGACAGGAAGGCCGAGGAAAAAAGGGG G G G GCCCCGGCCAAACGGAAAAAAGGAAGGAAGAGBCCAGGG AAAAGGGGAAAAGGAAAAAAGGGGGGCAGGAAAGAAAAAAAA A A GAAACCGGGGAGAGGGGGTAAGACAGAAAGGAAAAAAGBA A A G G A A G G G G G G A A A A $\mathcal{A} G A G G G A A G A A A G G G A C X A A G G G G G G$ A A A A G G G A G GCAGGGGAAAAGGGGAAGGCCGCGAGGAACAAG $G G C C G A G G A A G G A A A A A A A G C A A G G A C A A C A G G G G G G G A G G G$
 G G GAGGGGAAGGCAGGGGAAGGAGGGAGAACCGAAAAAAAGA
 A GAGAACCACAGAAGGGGGGAAGGAAGGGAAGAAAGAGAGAG AAGGCAGGGGGGGACAGGAGCCAAAAGGCCCCAACCAAACAA A GAA $A$ G A A A A A A A A A A A A C GAGAAAAGAAAGGGAAAA GAAAA GACCCCAACCGGAAAACAAAAAAGACAGGAGAAGAGATAGAG GAAGGACAAAAGAGGGGGAAAAAGAAAACCAAGGGGAAACBG
 A G A A A C A A G G A A G G G G G G C C G G G G A A G G G G A A G G A A A
AAAAAGGAAGGACCAAGGAACAAAGAGAGGAAAGGGGAAAG AGCCAGACAACCGGGGCCCCCCGGAAAGAAAGAGAACAAAAA G G G G G G G G G A G A G A A G G GC C G G T T A G G GAAA A A G G G G GACA $\mathcal{A}$ A G G G A T A G A A A A GAGGAGCAAAAACCGGAAGGGGGGAAAAAA G G G G G G A G A T G G G G G A A A A A A G G A G G G G G G G G A G A A A A A A A $G$ AGAGCCGGGGAAAAGAAGATGGGGGGCCAGCCGGCAAAGGAG A A G A C C G A C A A A A A A A A A G G A G A A A A G G A G G G A A G G A G A A A A AAAGGGGACAAGAGGGGGGGGGAAGGGGAAGAGGACGAGGGA A GAA A A GAAGGGAAAAAAGGAGGGCCGGGGAAGAAAAAGGGA A A G G A A A C A G G A G A G G A GAAAAGGCAGAGAAAACAAA GAA G G $A$ G GAACCGGAAAAGGGGAAAAGAAGGGAAGGAACAAGAGAGAG GA $A$ A $T$ T $G A A G A A G A G A A T A G G G G G G G G G G G A A A A G A G G A A G G$ T TACGGAAGAGGAACCGGAACCGGAAAAAAGAAAGGAACCGG A A G G GAA $A$ A A $\operatorname{A} G A A G G A A A A G G A C G G A A G G C A G A A A G G C C G G$ GACGCAGGAAAATAGGGGAAGGGAGGAGGAGAGAGAAGTTCC
 $G G C C G G G G C C A G G A G G A G G A G A G G G G G G A G G G A C A A G A A G A A$ C C G G G G G G A A A C A G G G A G G G A A A A G G G G A A GA G G G G G G A A T T G G GACCAAGACCAAAAAAGGAGAGAAGGACACAGGGGGBAAA $A C G A A G G A A G G G A A G G C C G G A A G G G G A A C G A G C X A A G G C C G G$ $A C C C G G G G G G G A G G G G A A A A C C G G G G G A A G G G G G G A A G A C B G$ GAGACAGAAGAGAAAAACAAGCTAGCGAAAGAGGGGCCAAGBG A A C G A G G A A G G A A C A A A CAGGGAAGGCCACAAAAA GAAAAAC G G G G GAGGAGGGCCAAACACAAGACCGGAAGGCCAAAAGAGG AAGGAGGGGGGACCAACCAAGGAAAAAAAAAAAAAAAACAAA G GAA A G G G G GCCCCGGGGCCAAAAGGAAGGGGGGAAAAAACC
 GAGAAAAAGAGGAGGGAAGAAACCAAGGGGGAAAAAAAGGAA CAGGAACCGGGAAGAAAGGACGAAGAGGGAGGAAAAAAAACA A A GAGGCAATCAGGGAAAGAAAGAAGGAAGAGGAAATAGGGG G GAA A G G G A A A A G G G G A A GACAAACCAAGGAAACCCAAAAAG A A A A G G G GCATTGAGGAAAAAAGGGGCCCAAGAGAGGGAAAC GAGAGAGAGACCAAGACAGGAGAAAAAAGGCCCGAAGGAGGG GAGAAGCCAAGGAAACGAAAACCCGAAGGAAAAGGGAACAGA G G G GAA $\operatorname{A} G A A G A A A A A G G A A C C A A A A A A C C G A G G G G G G G G G A$

ACAGGGGGCAGGGGAAAAGGAAAAGGGAGAACGACAAAAGGG
 A A T T C C G G A A G G G G A G A G G G G G A C G G G G A A A A G G A A C C A A G G G G G GACAAGGGGGGGGAAGAGAAAGGGGACCCAAAAGGAAAA G G G G G GAACCAAAAAATAAGGAGAAAACGGCCCAAAGGAAAA GAGAAAGAGGCAAAGGCACCGGGGAAAAAAAAAGAAAAGAAA G G G G G GCCAGAGGGAAAGAGGGAAGGGGAAAAACAAAGAGGA GAGAGAACGGCCAGGGAGCCGGAGAAGAAGGAGGGGGGAGAA GAGAGGGGACAGGGAGAAGAAGGAGACCAAGGGGGAAAAGAA G G G G G G G G GAGGGGGAGAAAAAGGAAGGCCCCAAGAAAGGGG GGCCCCAGGGCCGGAAGAAAAAGAGGAAACAACCGACACAGG A G A A A A G G G G G G G G G G C C G G C C A A A A G G G A A A A A A A A G A A G A A A G A A C G G G G A T A G A G A A G G C C G G A G A A G G CAA A G A A A C A G G G G G G G A G G C C G A G A G G A G A G C A C C G GAC G G G G A A G G A A A G G A A A A G G A A G A A G A G G A C G G G G G G C C G A G G C A A GC C A A G G A G G G AA G GAGAGAGGAAAGAAAGAAGAGACAAGAAGGACCGGGGAA A A G GAA A G G G G A A A C CA $A \operatorname{GGGAAGGAACCACAAGAAAAAAGGG}$
 $G G A A G G A A G A A A A G A A G G A C C C G G G A A A G G G A C C A A G G A G A A$ A A G GCCGGTTAACCGGAAAACCCCAACCGGAAGAAACCGGGG G G G G G G GAAGGGCCGGAGGAAAAGAAAAGGAGCCGGAAGAAG A A A A A A G G G G A A G G A A G GC CA $\mathcal{A} G G G G C C A A G G G G G G G G C C G G$ A A G GCCAA $C$ C GAAAAAAGGAAGGAAAAGGAAGGGGAAAA GGGG A A G G G G A A A A G G G G A A A A A A A G G G GAAAA A GAA $A \operatorname{AGGGG} G A A A A$ G G G GCCGGAAAAGGAAAAGGGGGGAAGGCCAAAAAAAAGGGG

 G G GAGGAAGGCCGAAAAAAAAAGGGGAGGGAGAAGGAAGGCC A A A A G GAGAATAGAAGGAAGAAAACAAGAGGGGACCAAGGGG CCGGGAGAGAAACACAGGAGAGCCCCCCGGAAAAGGAAGGAA
 G G GAAGAAACAACCGGAAGAGACCGGAAAAAAGGAGGGACGG A A G GAAAAAAGGGAAGAGGGAGAACCAGAAAAAGGGCCAACC A G A A C C A A A A G G G G A $\mathcal{A} G G G G G G G A A A C C C C A A C A G A G G A C G G$ A GAGAAAGAACAAAGGGAGGAAGAGGGGAACCGGGGAGAGAA A G A A A GCCGACCACGGAGAGGGGGGGAAGGGGAAGGGGAACC AAGGGGAAAACCAAGGGGAAAACCAAAAAAAAAAAGGAGAAA A A A A A ACAAACCGGAAAAGGGGCAAGAGAGAAGAAGCCAAAC G G GAA $A$ GAAAAAACCAAAACCAAGAAAGGAAACAAAGGAGGGG
 GACACCGGGCGGGAGGAAGAGGCCAGTTAAAAAAGGCCAAGG GAAGGGCCAACGAGCAAGAGAAAGAAAGGGAGGGAAAAAGCC A A A A ACAGCCAAGGAAGAGGAAGGAAAAGGAAAAAGAGGAGG A GAGAGCAAGAACCCCGGGGCCAAGGGGAGAGACGGAAAGAA G GAAAAAGACGGAAAGACGAAGGGAGAGCCAGGGAAAAAAAA A A A A A A G G A A G GAACCAGGGAGAGCCCCAGGAAATAAGAAGA GAGGGGGAGGGGAAGGAGGAGAGGAAGGGAGGGGCCAAAAAA GAGGGGCCAACCAGCCCGAAGGGAGGGGGGAAAGGGGGAGAA GAAAAAAAGGGGGGGAAAAAAAGGAAAGAACCAATTAAAACC ACAAAGGGGAGGCCGGAAAAAAAACGAACCGGGAACCCGGGG CAAACCAAAAAAGAAAAAGGGGCCAGGAGGCCCCCACCAGGG GAGAGGAACCGGAAAGAGGAAAGAAGAAGGAACCGGGGAGGA A A A A A A A A A G A G G A C CAAAACCCCAAGGGGGGAAGGAAAACC AAGAATAAAACCAGAAAAAAGAAAGGAAGGCCGGGGAAAACA A A G G G G G G A A A GAGAACCGGTTCCAAGGAGAAGAGAGGAGAG G G G G G G G G A A G A G G A CAGAGCCACGGAAGGAAGAAAGGA GA A ATAGAGAAAAAAAAGGGGGGGGGGGGAAAAAACAGGAAGGGG $G G C C G G A G C C G G G A A G G A G A G G A A A A G G G G A A C C A A A G G G G A$ $G G A G C A A G G A A A G A C C G G A A G G A G G A G A G G T T A G A G G G A G A A$

GAAAAGAAGGAAAGGGAGAAGAGGAGGGCCACCAGAAAGGGG GAAATAGCGAAAACAGGAGGAGGGAAAGCCAGAGGGAACCAG A A C C C C C C A G A A GAAACCGGAAGGGAGGGAAGAAGGGGGGGG C GAA $A \operatorname{GACA} A A C G G A A A G G A G G A A G A G G A G A A G G G G C C G G C C$ G G GAGGGGGGGGAGCCGGAAAAAACCGGGAAGAAAGAAAGCC A A A A A A A A G G A A G G G G A G G G G G G G A G G A G G GACC $\mathcal{A} G G A G G B A$ AC GA A G G G A A A A G G A G A GCCGGAAGAGGCCAAACGGAGAAAA GAAGGGGGAACCAGGGGGAGGGGGGGAAAAAAGATXGACCGG A A G G A A G G G A A GCC G G A A A G G G G G G A GA A A G GAAAA A G C C A A CAGAGGAGGGGGGGGAGGGGAGCCAAAAAACCGGGGAAAAAA G G G GCA C G A GAAAGACAGCAGGGAGGGAACGGGGAACACAAA $G G C C A A A A G G C C G G G G G G A A A A A A G G A A A A A A G G G G G G A G A A$ A A A A C A G A A GAACAGGCCAAGGGGAAAAGGGGGGAAGGAGAA A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G A G G G G A A A G G G G A A A A A A A A$ A A G G G A G G G GAAA $A \operatorname{AGGAAGGAAAAAAGGGGAGGGGGAGACCA}$ A GAAAGGGAACCGAGGCCAGAGGAGGGAAGAAAAAAGGTTGG A A A GAA A GAGACA $A \operatorname{A} A G G G A C G G G G A A A G A A A A G G G G G G A G A G$ GAAAGACCACAGGGGGGGCAAACCAAAAAGAAAAAAGGGGGG AAGGGGGAAAAGACAGAAGGGACCCCGAGAAAACGGCCBGAA G G G A A A G A A A G G G A A A A A A G G G G G G G C C G A A GAA $A$ G A A G G A A G GAGAGGAACGAAGACGGGGAGCCAAAACCGGGGAAAGGGGG C C G G G G G G A A A GCC $C$ G G G G G GAGAAAAAAAAAGAGAAAAAAAA G G G G A A T T G G G G G G G G A A G GA G C C A A A A A A A A A A G G G G G G G G A A A A G A G G G G A A G G G G A A A A A A $\mathcal{A} G G A G A C A G G G G A C G$
GCCAAAGGGAAAGCCGAAAAAGGTAGGAAGACCACAACAAA C CAAACAAGGGGAAAAAAACGGGGAGTAAAAAAAAAGGAGAA G G GAGGGGAACCGGGGAACCAAGGAACAGGAAGAGGCCAAAG C C G A A GAA $A \operatorname{GCCA} A C C C A G G A A A G G A G A G A A A A A G G A A A A G A$ A G GAGAGACAAAGGAGGAAGAAAAGGGGCCCCAGAAGAAAAA AAAATACAGGGACCAGGAAAAGCCGGAACCGAGGGGAAGGAA G G A A G G G G A A G G A A G G G G A A A A G A A A A A A A C C G G A A A A G G G G AAGGCCAAGGAAAAGGGGAAGGAAAAAAGGGGGGAAGAAAAA A A G G G A A A G G A A G G G G G A GAGGGAAAAAAAAGGGAAAA G A A A A G G G G G G G G G G A A G G A A A G G G C C G G G G G G A A A A C C A A A A G G A A AAAGAAGGGGGGGGGGCACAGAGGGGCAGAGAGGAACAAAAG A A A G A G G G G A G A G G G G A A A A G G G A GAGACAAC GA GACAA A A C CAAAAAAAGAGGAGAGGGCCAAGGCAGGGGGGGGAAAGAGAA G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGGCAAA A G G G G A A A G G G G G G A A C C G G G G G G A GAGAAC GACA A GA GA G A
 AA $A G A A C C A A A A A A G G G G G G G A A A A G G G G A A A A G G G G A A A A$ A A G G A A G G G G G G A A A G A A G G A A G G A A A A C C A A C C G G G G G A G G ACAGGAGAAGGAAAGGGGAAAAGAGGGGCAGACCTAAGGGGA GAA A G G G A A A G G G G A A A C G A G G G G A G G G G G G A G G G G A A G G A G A GAAAAGGCCAAGAGGGGGGACAGGGAGAGAAGGAAAAAAAC C C A C A G A G A G G G G G G G A A G GAA A G G G G G C CA A A GA G G GAAA A G G G G G G G G G G G G A A A A A A A G G G G A A A A A G A G G G G A G A A G A G G A A G GAA A A G G G G G G GAAAACCCCAAGGGGGGGACC GAACGGGG GGAACCCCCAGAGAGGGAAAGGCCGAAAAGGGAAAAGGGGGG C CAA $\operatorname{C}$ GAA $A \operatorname{GAA} C C G G C A G A A C A A G G A C A A A A C A A G G G T T G G$ G GAA $A \operatorname{GCC} G G A G C C C C G G A A G A A G A C A A G A G A G A A C G G G G G G$ GGCCAAGAGGAAAGAAAGAAGAGAAAACAAAAGGAAGA GGGG A A G G A A A A $\mathcal{A} G G A G G G G G G G G G G G G A A C C G G A A C C A A A B A G G G$ G GAAGGACGAGGAAGGGGAAGGGGGACCGAGGGGGGGAAAGG G G GACCCCAGGGAACCGGGGGGGGAAGAACGAACAGAAAAAA GAAACACCGGACACGGGGAAGGGGGGCCGGCCAAAAGGGGCC AACCAAGAGGGAAACCGGGGACGAGAAACCGGAAGAACGGCC A A G G G G A A G A G G A G GAA $A \operatorname{GGGC} C A G A A A G G A A A A G G G A A G A A A$ G GAAAGAGAAGGGGGATTGGGGGGAAGGAAAGGGGGCAAAGA

G G G GAA A A G GACAAGGCCGAGGAACCAACCGGGGGGAAAAGA CAA $A \operatorname{A} \boldsymbol{A} A A A A G G G G A G G G A A A A A G G G G A G G A A C A G A A G A A G G$ A A A A A A A G G GACA $A \operatorname{AGGAAGGAGATAGACAGAAACAAGGGGAG}$ A GA $A G A A A G G G G G G A A A A A G G G A G G G A A G G G A A A G G A G A C G A$ AAAGGGGGAAGGCACCAAAAAGGCAAGGGGCCAGCCGAGGGC AAAGCCGGCCCAAACCGAGGCACAGGAGAAGGGGAAGAGGGG ACATGGAAGGAAGACCAGAAGGGGACAAGGCAGGACAAAAGG GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGCAGGAG GACAGGGGAAGGAGCCAGAGGAACAAGGAAGGAAAAAAAAAA AGAACCCCCCGGGACCACAAGGAAAAGGGGGGGGGGAAAAGA C CA $A$ A G G G A A A A G GACAGAACCGGGAGGAAAGCCAAGGAGAG A A G G G G G A G G A A G G G G A C A A A A G G G G G A G A G G G A G A G A A A A $G$
 C C G G GAA $\operatorname{GA} A \mathrm{~A} A \mathrm{~A} C A A G A G A A G A G G A G G A G G A A A A C C G G A A A A$
 G GAGAAGGAAGAGCAAAAAGGGGGGAGAGGGGGGGGAGAGAG A GCAAACAAGCAGAAAAAGGAGAAGGCAAAAGAGBAAAGAAA
 $G G A A A A A A G G A A A A G G G G A G G G C C G G A G A A G G G A A C A G A G A A$ C C G G A G A A C A G A G A A G G G G G C A A G A GAGAGGAGGAAAAAAAA A G G G G GAGCCAGGAAAGAGGGAGAAGGAAAGGGGGGCCAAAA G G G GAAAAAAGAGGGAGGGGAAAACCAAAAGGGGAAGAAACAA G G G G G G G G A A A A A A G GCCAGCAAGGGAAGGCCGGACAA G GAG A GCGAGCCGGAGAAGGGGAAGGAAGAAGGGGGGAGAAAAAAA GAAGGGGGGGGGGGAAGGGGGGGGGGGAGGGAAGA$G A A A G A G G$
 A GAAAACCGGGGCAGAGGGGAGACGGGAAGGGAA$G G G G G G G G$
 A GAA A G G GAGGGAAGACCCCACAAAAAAGAGAAGCCGAACAA AAAAGGAAAGGGAACCAAGGGGACGGGGGGGGGGAAAAGGGG GAAACCGCAAGAATAGAAGGCAAAAAGAGGAGGAGAGAAAAA GAGGAGGGAAGGAGACGGGGAACCGGAACCCCAGAAAGAAAG AA $A G A A G G A C A G G A G G A C A G C C A G C A A A G G G A G A A A A A G G C C$ AAAGAGAAGGCCGGAAAAAGCCAAGGGGAGAAAAAAGGAGAA
 G GAGAGAGAGAAAGAAAAGAAGAGACGGGGGGGGACCCCCCC G GAGCCAACCAAAAGACGCACAAAGAAAGGAGAGCAAGGGGG $C \subset A A A A G G C C G A A A G G A A G G A A G G G A G G G A A G C C A G G A G G A C$ T TAA $A$ A $A G G A A A G G C C G A A A A A G A A A A A G G A A A A A A G G A G G G$
 G G G GAAGGAGAACAGAAAAAACGGGGGGGGAAAAGGAAAAAA
 $A C A G G G T A G A G G A A A A A A G G G G A A G G A A A A A A A A A A A A A A G G$ G G A A T T C C G G A A A A A A A A A A C C C C G G G G G G G G G GAACAAAAC G G GAAAACGAACCAAGGGAAGAGGTTCCGAAGGAGAAAAAGG A A GAGACCGGAGGGCCAGAAAAAACAAGAGGGGGGGGAAGAA G GCCGGCCAGGGAGGGACGAGGGAGGCCCCAAAACCGGAAGG
 A A G G G G G G G G A A A A G G GAAA $A \operatorname{AGGAA} G G A A A C C A A G A A G G G G A$ G G G G G G G G G G A G A G A T A G A C A G G G G G A A G A GA G G G G G G C C C A
 G G G A A A G G A A A A G GAA $A \operatorname{AGGGGGGGAAAATTAAGGAACAAAAA}$ G G A A A A A A A A G G A A C CAAAAGGGGAAGGGGAAAACCGGGGCC G G G G G G T T A A A A A A G G G GACAACCAAGGCACAAAGCCCAAAA T T GAGGGGAATTAACCGGCCAAAAAGGGAAAGAGAGGAGAAA A A G G G G G G G G A A A A A A A A A GAGAACAAAAAGAGGAAGGAAAA A GCC G GC G A C G G G GAACCAAGGCACCAAGAAGAGGAGGAACC $G G A A G G A G G A G G A A G G G G A A A A A A G G A G G G G G G G A A G G A A A A$ GAAAGGAGAACCGGAAAAAACCGGGAACAGGGAAAAGGGGGG

GAAAGGGGAAGGAAAGAAAAGGAAGGGGAAGGAACAAAAGAG A A A A A GAAAAAAAAAAGGGGAAGGACAGAAGAACGGGAAGAG G G G G G G G G A A A A A A A G GAAAGGGGAAAAAAGGCCGGAAAAAG G G G GCCCCCCCCCCGGGGGGGGGGCCAAGACAGGGGGGAAAG G G G G G G G G G GAAGGGACCACAACAAGGGGGAAGGAAAAAAAC
 G G G G A A G G G G G G G G G G G A G G A A G G A A G G A C G A G A G G C C A A G G A A G G GAGACCGGAAGAAGAAGAGGAAAAGGCCAAAGAGAGGG G G G GCCAAAGAAGAGGTACCACGAGGAAAAGGGGAAGAGGGG AACCGGAACCAAAAGGAAACACAAGAAAGAGGAGCAGGAAAG GAAAAAAAGGGGAACGAGGAAGAAGGGAAAAAGGAACAAAAA G G A C G G A A G G G GAAAAAAGGGGGGGGGAGAAGCCGAAACAAA ACGGCCAAAAAAGGAAGGAAAGGGAGACGGGGAAGGGGGGCC G G G G C C A G A G A A A A GAA $A \operatorname{A} A A \operatorname{A} G A A G G G A A A C A G C C A A G G G G$ A G G A G A G A A A G G G G G GAGGGAAGGGGCCAGAAGGGGAAAGAG AAAGAGGGGGAAAACAAAGGGGGAGGAGGAACAGGGAAAGAC A GAA A G G G G GAAAA A GAAAGGGAAAGAAAAAAA AAAAACCCGGG A A GACAAAAAGGGGGGGGAAAAGGAAAGCAGGAAAGGAAAGG A GAAGGGGAAAAGGAAGAAAACGGCCAGCCCACAGGACBGAA G G A A A A A A $\mathcal{A} G G G G G G A A G A A G G A G G G A G A G A G G A A A G G G G G G$ AAAAGAGGGGAGACAAAGAAAGAGAGAGGAGGGGAGGGAAGG A G GAAAAGAAAGAAGACAGAGGGGAAAAAAGGGGAAAAAAGG G G G G G A A G A A G A G G G G G G A A G G A A A A A A A GAGAGA A A G GAA A A A G G A G A G G G A A G G G G A C A A A A A A A C G G C C G G A G A G A
A G G G G A A A ACCGAAACAGAAGAAGGGGCCGAACAGGAGAAA CACCAAGGGGAAAGGCAACAAGAAAAGACAGGGAAAGGAGAA G GAAAGCCGGAAGGGAAGAGAGAGGGGGGACAGAGGGAGAAA GAGGAGGGGAGGAAAAAAGGGGGGGGGAAAGGGGGAAAAGAA A GAA A GAGCCCCACGAGGCCAGGGGAAACCGGAAGAAAGGGG GAAAACGGAAGAACGAGGGGGGAAAACCGGGGAGGAAACCGG A G G G G G A A A A A C A G G G A A A A A A G G A A A G G A GA G G G G A G G G A A $C C G A G A G G A A A C A A A A A G A G A G A C G G A G G A A A G G T T A G A G G G$ GAGGAAGGGGCACCGGAAAGAGAGAAAAAGAAGAAAAACAAG G G G A C C A A G C A A A A G G G G G G G G A A G G A A C C C C A G G G G G G A A G A A A G G G A A G G G G A A G G A T A A $\mathcal{A} G A G G G A A G G G A A A G G G G G G A T$ A A A G G A C C G G G G A A G G A A A G G G A A G G G G A A G G A A A A G G A G G G ACAGAAAGAAAGAAGGGGGGAAAAGGGACCCCGAGGGGAGAG A GCCAGAGGGAAAACCGGACAGAGAAAAGAGGGAAAGGAGAA AC G GAAAAAAGGCCGGCCAAGCAGGGGAAAAGAGGGAGAAGA
 A GAAAAAAAGGAAGAGAAAGGGAAAAAAAGGAGGGGAATTAA A G A G C A A A C C G G C C A A G A A G G G G G A A G A A A G G G G A A A A G G G G G GAGAAGGAAAAAAAAGAGGGGAAGACCGAGGGGGGAAAACC A A G G G G G GCC G A A G GCGAAGAAGAAGAAACGAGGAAGGAAGG A GACCAAGAGAAGGGGAGGAAGGGGGAAAAAGGGGGGGAAAA A A A A A A A A G G G G G G A A G G A A A GAA $A \operatorname{GGGAACGGAGGAGACAAA}$ A A G G A A G G G G G A A G A A A $\mathcal{A} A G G G G G G A A G A G A G A G A A A A G G G G$ A GAA A G G GAGAGAGAAAAGAGGAAGAGGCCACGGCCAAGGGG G GAA $A \operatorname{GCA} G G G A G C G G C A A A G G A A A G G G A C G G A A G G G G G G G G$ G G G GCCGGACGGAAAAGGAAGAAGGGAAAAGAGGGCGAATCC G G G A G G G G A A A A A A A A A G A A G A G A T T A A G A G G G G G G G G G G C C T TAC A G G G G G G G A A A GAGGAAAGAACAAAAAAAAGGGGAGAA A A A A A A $\mathcal{A} G G G A A A A G G G G C C G G A A A G A G G G A C A A A G G G G G G G$ A A G GAGGAAAAAAAAGAGGGAGAAAAGGGGAAGAAACCACAA $A C C C A A A A G G G G G G C A A G A A G C A G A A G A A G A A A A A A G G A G A A$ A A A A G A A A G G A G G G G GAGAAAAAAGGCCGGAAGGGGGGAGAA A A G G G ACCAAAAAAAAAAGGGGGGCCCCGAAGCGAACACCAA ACAAAAAGAAAACACAGAGGGGGGAAGAAAAGAAGAAAAAAG $A C A G A A A G T T G A A A G G G A G G G G C C G G G G G G A A G G G G A A A G A A$

G G G G G G G A G GA G G G GAAAAAGGAAGGGGGGGACCAAGGAGAG G G GAA $A \subset C A A A G G A G A A A A A A A A G G G G G A C A G A A G G G A A C G G$ C CAAAAAGAACCCCAGGACAAAGATAAGGACAGBAAAGAAGAG G GAGGGGGGGGGGGGGCAAGAAGGGGCCAACCCCAAGGGGGG G G G GAAAAAAAAGGGCAAAAAGGAGGGAGAGGGGAAAAAAAA A A A A A A C C A A C C A A G G G A G G G G C A A GGGGAGAGAGGAA GAAA
 C CAAGGGGCCGAAGCAGACCGGAAGAGAAAGGGGGGAAAAAG GAGAGAGAAGACAAAAAAAGAAGGAACCGGGGGAGGGGAAGG G GAAGGAAGGAGGAGGGGAAAAGGGGAGAAAGGAGAAAGGGG A GAAAAGACAAGGGGGAAAGAAGGAAAAACAGAGAGAAAGAG A A A C A A A A A A G A G G A A G G G A GAGAGGCCGGAA GAAACGGGCA A G GAA A GAAGCCCCACACAAGAGGAAGGGAAAGAGGGAAGAG CACAGGAAGGGGGGAAAGAGGGAAGAAGAAGGCCGGAAAGAA G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A A A G A G G G G G G G G A G G G A A A T G A G G C C A C$ G GAC $\mathrm{C} A \mathrm{~A} A \mathrm{~A} G C \subset A A A A G G G G G G A A G A A G A A A A A A G A A A G G G G$
 G G G G G G A A G G G GAAAGAACAAAAAAGGACAAAGGAGAAGAGG $G G A A G G G G C C A A A A A G G G A A A A G G G G C A A G A C A G C C G C A G A G$ G G A G A G A G G G G G A A A A $\mathcal{A} G G G A A G G G G A G A G C G G A A G A G B G C A$ G G GAAAGGAAGGAGAAGGAATTAACAGAGGGGGGGGGGAGAG A A G G G A G G A A A C G A G G A G GAGGAAAAGGGGAAAAATCCAA G A A G G GAACGAACAAGGAAAAAAGGCCGAAACCGAAGCCCCGGAG CAAGGAAGGGGAAAGGCCGGGGAGAGAAGAGAAACCABACAA GAAGGGGGGAGGGGGGGGGGAAAAAAAAGGCCCAGAAAAAGA C G G A A G A A G GAGGGAAGGACAAAGGGGGGGAGACCCCCCAAA A G G GCAAAAAGGACAAAAAAGGAAATGGAGGAAGGGAAAAAA G GCC G G GACC G GAA A G A A G G G G A G G G A A A G A A G G G G G G A G G G A GCCCCAGAAAAAGAAGGGGCAACCAAGGGGAGGAACAAAGG A GAGGGGGGGAAAAACGAACAACCGGGGGACCAAGAACGGAG
 G GAGAGCAAAAAGGGAAAGGGAGAGGTTACGGGGACCCAGAA A G G GAAAA A $A \operatorname{Ag} \operatorname{Ag} \operatorname{GA} \mathrm{~A} A A A A A G A A A A A A A A G C G G A G G G A G G A A$ A A G G G G G G A G A G G G G A A A G A A A A A A A G G G GAAG GAAAAAAC C C C G G A A G G G G G G G G G G A A G G G G G G G G A A A G GA $\mathcal{A} A A A A G A A A A$ A A A A G G G G A A C A A A G G G G G GCCCCCAAGGGGACCAAAAA GAAC A G G G G G GAAAAAGGAGAGCAAAAGAAGAAAGGAAGGAAAGAA AACCGAGGAGCAGGGGCCAAAAAGGAAGCAAGCAACAAAGGG CAAAA $A$ A A A $\mathcal{A} G G G A G G G A G G A G A G G G A G A C G A C A A G G A G A G A A$ A A A G G G G A A A G G G G G G G GAGAACCGGGAAAGAAAAGATAAAA AA $A G G G G G A A A A G G A A A A A A G G A A A A G G G G A A G G A A A A G A A A$ GAAGAGAAAAGAAAAGAAAAGACCAAAAGGCCGAAAGAAAGG C C C A A C G G A GAGGGCGGGAAAAACAAGGAGAAACGAGAACGG G G G A A A G G GAA $A \operatorname{GAC} C G A A A G G A A A A G G G G A A G G G G A A A C B A$ G GACGAGGAAAGAAGGAGCAAGGGGGAAAAAAAAGAAAGGCC G GAA $A \operatorname{GAAAAAGAGAAGGACCGGAAGGAAGGAAGGCAAAGGCC}$ ACAGAACAGGGAAAGGGACAAAAACCGGGGCCAAGAAAAGAA
 G G G GAAAACCAGAGCCGAAGCCGACCAAGGGGGGGGAAAAAA G G A G A A A A A A G G G A A A A A A C G G G G GAGGAGAGAAA GAGA A A A G G G GAACCGAAGGGAGAAGGAGAGAGAAAAGGGGAAGAAAGA A A GAGAGGAGGGGGAAAGGGAAAAGGAGAGGGGAGAAGAGAA
 G GAAAAAGGGGAAAAGAGACAGGGAAAACCAGAAAAGAGGCC A A A A G GAA A GAAGGAAAGGGGGAAGAAAAAGAAAAGAGAGAG $G G A A G G A A C C G G G G A A A A A A G G A A G G A A G G A A A A A A G G G G G G$ C CAAAAGGAAAGACGGGGCXAGAAAGCCAAGAGAGGGGCCBA G A G G G G A A A A G G A G C A C C G GAA A GAA G G G G G G G G A G A A G G G G $C \subset G A A G G G G G G G A A G A G A G G A A A A G G G G G G A A G A A A G G G G A C$

A GCCAAAGAGGAAGAAGGGGAACCGGCGGAAGGGGCGAAAAG GAGGAAGGTTAAAACCAACCAAGGGGAAAAGGGGAAGGGGGG G GAAAACCGGGGAAGGGGAACCGGGGAAAAAAGGGAAAAAGA G GAAAAAAAAAAAAAAAAGGAAAAGGAAGGTTGGGGGGAGAA A A A A G GCC $C$ G G G G G G G A A G G G G G G G G G G C C G G G G G G C C G G T T
 G G A A G GAA $A \operatorname{GA} A \operatorname{A} G C C A A G G A A A A G G G G G G A T A A A A A A A A A G$ A A G G G GA $\operatorname{A} G \mathrm{G}$ GAAGAAAAGGGGGAAGGAACCGGGGCCGGAGAA G GCCAGAGAAAAAAAGAGGGGGGAACAGAAGGCCCAAAAGGG GAGAGAGAGAGGAGAAGGAGAGAAAAGGGGGGAGGGGGGGGG A A G G G GAA $A \operatorname{GA} A A A A T C A A G A G G G G A C C G C A G G A G A A A A A A A$ G G G G G G G G G G G GAACC GAGAAACCCAGGAAGAAGAGCAGAAA A A A A G ACCGGCAGGGAGGGGAGGGAGAGAAAAAAGGGGAGAA A GAA $A \operatorname{G} A A A A A C C C A G G A G G G G G A G G C A A A A G C A A C A A A T A G$ G GAGGACAGAAAGGCCGGGGACGAGAGAGAGGGGCAAAAAAAA
 A A G G A G G G A A G A GA A A A A G G G G A A A A G G G G CAC C A C G A G G A G A G GACAGGAGGGGAAAGGAGAGAAAGCAAGACAGGGGGAGAA G G G G G G A GAAAATTAAGGAGGGGGTTGGCCAAAAAAAAAAAA GAAGGGGAAAGAAAGAGACAAAAAGGAAAAGGGGGGAAAGGA G GAAGAGGAAAGGGGACCAAGGGGAAGGGGGGGGAGAGAGAA
 GAGGCCAAGGGAAAAAGGACAGAAAAGGGAAACAAAAGACCA G G GAGCACAAAAACGGGGGGCCCAGGGAAGAAGGCGC
A A A G A A G G A A A GGGGGGGGCCAGGGAAAGCCGAGAGGA GAC G GAAAAACGGAAGGGAGGAGGAGGAAGGAGAGGAGGCAAAAA AACAAAAGAAAGAAAGGGAGAGGGAGAGGAGGAAGGAAAGAA A A A A A A G G A A A A A A G G G G G GAA A G A A G G A A A A C C A A A A A A A G G GAGGGACGAGGGAGAAACCAAAAAGAAAAGGAACAACAGGG AA $\operatorname{A} G A A A A A A G G A A A A G G A A A A G G G G G G A A C C G G A A A A G G G G$
 G G G GAA A GAAGGGGAAAAAAAAGGAAAAAAAAAAGGAAGGAG G GAA A G G G A A G G G GAA $A \operatorname{A} \operatorname{A} A A A G G G G G G A A G G A G G A A A A C A A A$ GACCAACCAAGGGAGGCCAAGGAGAGAGGGGGGGAAGGAGGG A A G GAGGGCC GAGAGAGGAAAACCGAAGGGGGGGAGCCAGGG G GAGGAGGGGGGAGAAGAAGGGACGAGAAAAAAGGAAAAGAG $C C G G A G G G C G A A G G A G A A G A G G A G G A G G G G G G G A G G A G A G A A$ A G G GAGGAAAAGAGAAGGAGGAGGAGAAGAAAACACGAGAAA G GAGGGAGAAGGAGGAGAGGAAAAGGAGGAAGCACAAAAACC G G G A G G G A G G A G G G A C C C G A A A GAGGGGAAGGAACCACAA G G AAGGACGGAAAAGGGGAGAACCGAGAGGGGGGGGAAGAAAAG C C C C G G C A A G A A C C A G G G G GA G A G G G G A A G A G G G G G G G A A A $G$ AAAAGGAGGGAAAGCCAGGGAGAAAAGGGGGAAAAGAGGGGG
 C C TAA A G G G G G A A CAC G G GAAAAACCAAAAAGAGAAAGAAAA G A A G A A A G G A G G G G A A A A G A A A G G G G A T T T A G C G G G G G C C G G GGAAAGCCAAAAAACCGGACGGAAGGAACCAAGBAAGGGGCC GAGAAACAAGAAACAGAAAAAGGACCAGACGAAAGGAAGAAG ACGGAAGGAAGGGACCGAACAAGGAAAAAGAGGGAAAAGGTT G GAACCAAAGAAAAAAAGAAAAAAGGAAGGGAAAACAA GAAA
 AA GAAAAAAACAAAGGCCAAAAGGAAAAAAACGBAAGGAGGG C C G G G G A G A A A A A T G G A GACAA G G G GAAAAAACCGGAAG G $\mathrm{C} A$ AGCAAAAAAAAAGGAAAAAAGAGAGGGGGGAGACAGAGATTA A A A A A GAGCCGGAAAGAGAGCATTGACCAGAAGGAGAGAGCA A A A A G G A A G G G A C C G A A GACAA G GAC GAA A A A A GA G G G C G A G G G G G A G G G A A C A A A G G G A A G G G A G A A G A A G G A G A A G G A A G G G G GAAAGACCAGGAAAGGGGCCGGGGAAGGAGAACAAAAAAGAA G G G GACCCGGGAAGAAAGAACCAGAAAAAAACGCGAAAAAGG

AAGAAACAAAAAAAAAGAGAGAAAGAAGGGGGGGAAAAAGGG TACCGGAAGGAATAAAGGAAAAACGAGGGGAAGGAAGGAAAA CAGGGAGGAAAGGGAAAGAACCGGAAAACCAAGGGGGGAAAA G G G GAAAAGGCAGGGGGAAGGAGGAGAAGGGGGCGAAGAAGA A A GAA A GAGGAACCGGGGGGGGAAGAGAAGAAGGAAAAAAAA G G G G C A G G G G G A A A G G G G A A A A A GAGGGAACC GACCAGAGAC
 CCACGACAAGGAGACCGGGAAAGAAGGGGGAGACAAAGAAGAG AAGGCAGAAGAAAAAGAGACACAAAAGGGGAGAGGACAAACA GAAAGAGAAAGGAAAAAAAAAAAGCAAGAGGGAGGAAGAACA CAAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A C G G C \subset A A G G A A G G G G G G G G A A G C A C G C A G$ AAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAAAAAGGGG GAAGGGAAGGAAAAAGCAAACACCAAAAACTAGGGGAAAAAA C C G G A A A A G G G G G G A A G GAAC CAA A GGGGGCCAAAACCAA G G C C G G G G G G A A A A G GAAC CAA $A \operatorname{A} G A A G G G G A A G G G G A A G G C C G G$
 A A A A A A A G A A A ATTAAGGGGGAAGCAGATTAAAAAAGACCCA A A GAAAGAAACCAACCAAAAGGGGGGAAGGAAAAAGGAACBG G G G GCATTGGAAGAGGACGCACAAAGAAAGTAAAAAGG GATT A A A C A ACCAAAAAAAAGGGGAAGGGGAAAAAGAGAGCAGGGG AAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCGAAA AAGGAGCAAGAGAGACGGAACCAGAAAAAACCGAGGGAAAAA G G A A A A G G G G C CAATTAAAAGAGGAAGAAAAACCAAAAAAAA GGAACAAAGAAACACACCCAGGCCGGGAAGGATTAAAAGGGG A A GAGGAGGAAAAGAAAAGGCCCCGGGGAGAGGGACAACAGG G G G GCCGGAAGGAAAAAAGGGGAGGGCCCCAAGGGGCCGGGG G GAAACCGGGGCAAGGGGAGGAAAGGAGAGGGGGGGGAGGGG A A A A A A A ACCAACCGGGGCAGAAGGATTGAAAAAAAAGGGAC A GAGGGCCACAGGGGGGGAAAAAAAGAAAAAGAAAAGGAGAA $G G G A G A A G A A G G A A A A G G A A G G G A A A G G G A G A A G A G A A G G G G$ $C \subset A G G A A G G A G A A G G G A A G G A A A A G G C C C A G G A A A G G A G G G G$ AA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A G G A G G G C C A A A A G G G A G G G A G G G G G G G G G G A A$

 GAGGCAGGGACCAAAGTTAAGGAGAAAAAAAAAGCCGGGGAG A A GAGAAAGGAACCGGGGACAGGGGGGAAAAAAAGAAACCBG G GAAAAGAGGAAAAAACAAAAAGGGAGGGGAACAAAGGAACC A G TAACGGGGACAGGGCCGAAAGGGGAAAAAACCGGAAAGAA C CAA $A \operatorname{GAAACCGGAAAGGGGGAGAAGAATCCAAGGGGGAAAAA}$ GAGAAAGGGGAAAAGAGCAAGGGGAACAGACCGGAGGGAAGG G G G G A A C C G GACGGGGGAGGGGGGGAGAAACCCCAAGGAAA G
 A GCCGAGGGGAAAACCAAAAGGAAAACCAAAACCGGGGGGGA GACCAAGAGAACACAGCAACCAGGGAGGAGCGGAGAGAAGAA GAAGAGAGCCGGAACCGGAAGAAGCCGGCCGGGAGGGGAGAA G GAAAAAAGGAAAAAAGGGGAAAAAGAAGGGGGGAAAAAAAA GAGAGAAGGAAAAAAAAAAAAAGACCGGGGAGAGGAGAAGAG A G GAA A A A GAGGGGCGCAGGCCAGAAAGAAAGGGAAAAAAAA G GAAGGGGAACCAGAAGGCCGAGGGAACAAAGGAAGGGAAAA G G G GAGAGAAGAGGGAAAACGAAGGACCAGGAGGCCCCAGAAA $A C G A A A A A A A A G A C A G C C G A G G G A A G G G A C G A A A G A G A A A G G$ AC GAGGAGAGAAAAAAAAGGGGGGAAGGCCAGCAAAAAGAAA A A G G CAG G A A A A A G GAGGAGACGAAGGGACAAGGAAAAGGAA AACCACATACCCCCAAAAAAAAAGCAGAGGAAGGGGACAAGAG G GCAGGGAAAGGAGGAGCAAGGGGGGAAGGACAAAGAAAACC A A G G A A G G A GCCAACAGAGAAGAAAAGAGGGAGGTTAAAGAG $G G A A G A G A G G A A G A G G G A A A G G A A A A A A G G A G A C A A A A G G A A$ $C \subset G G G G C A A A G G G A A A G G A G G G G A G A G A G A C A G G G A A A G G A G$ A GACGGGGGGGAGGGGCCAGAGAAAGACGGCACCGACAAAAG

A GAGAAGGAAAGGGAAGAGGAAAGCCAGAGGGCCAAAGGAGG G GAGAGCAGGCCAGAAGGAAAGAACAGAAGAGAAGAGACCAA GAGGCCAGAGGGAGGGGGGGAGGGCAAGATGGAAAAGGAAGA A GAA A A A GAGGAACGGAGGGGAAAAAGGAAAGCCGGGGAAAG GGCCGGAAGAAAGACACAGGGGAGAAGGTAAAGAGGAAAAAA CAAACCGGAGGAGAGAAGAAAAGGAAGGGGGAGAAAGAGGGG ACAA A G G G G GCAGGAACAGGGAGGCCGACCAAGGGGAGAGAA $G G A G C C A A A C C A G G C A A A A A A A A A G G G G G A C A A A A A A G A G G A$ G G G G G G G G G G G G G G A G G G G G G G G G A A A A A A A A G G A A C C A A G G GGGAGCAGAGAGGCGGAAAAAAGGAAGGAAAGACAAGGGAGA A TAAAACCCCGGGGGGGGAAGGACACGGGAAACCAAGETTAG GAGAGAGGAAAAGGGGGGAAGGGACCAAGGGGAGGGGGGGGG A A G GATCCGGGGGGAAAACAAAGGACAGAGGGGAGAAGAAGG A GCCAA $C$ C A GAAGCGAGGGGAAGAGGGAGGGAAAAAAAAGAAA C A A G G G A G A G G A G G G G G G G G A G G A G G A G T T C C G G A G A A G G A A A GAAGAAGCAAGAGGGGGAAAAACAGCACCGGCAAAAAGGAA A A G G GAGGCCCCGGGGGAACCCAACATTACAACCGGGGAAGA GACAAGGGGGGAAGAGAGAAAAGGGGGGGGCCAAAAAAGGGG AACCGAAAGGGGCAAAAAAAAAAGAAAAAAAAAGGGGGAGAA A A A A A C A G A C A A A T GAA A GACAGCGAGAGGGGGGGAAGAAAA A A A A ACAAACGAAGCCGAAAGAACGGAAAACCAAAAGGGGAG AACACAAAGGAAAAAAAAAGGGAAAAGAGGAAGGAAAA G GAC A A G G G GACACAGAAGAAGGGGCAAAGGGAAAGGGGGAAAGGG G G C C G G G A A A G A G G G G G G A G G A G G A A A GAGACAAAA A
GAGAACCGAGGGGAAGGGGCCGAGGAAGGAAAAAAGGAAGG AAAAGGGGAAGAGGAGAAAAGGCCGGGGGGAAGACCGGAAGA A GAAAAAAGGGGAAAATTCCGGAAGAAAAATTAAAAGGAACC $C C G G A A A A G G G G A A G G A G A G C A G G A G G A A G C A A A G A G A G G G G$ ACAAGGAGCCAAAACCGAAAGGAGAAAACCAGAAGGACAGCC GGAACAGGCAGAAACCCAAGAAAAGAAAAAGGCCAAGCGGCC CACCCCCCGGAAGGACGGGGAGGGAGAAAAACCCAAAAAGAG GGCCGAAAAAAGAGAAGGAACCGACCGGATAGGGGGCAAAGA G G G G A G GAGGCCGGAAAAAAGGAAGGCAGGGGGGGGACAGCC G G G A G A A A A GAA $A \operatorname{GA} A A G G G T T A G A A A A G G A A A G G G A G C C G G$ A G A A G G GCGGAGGGGGAGGGAGACACAAGGAAGGGAAAACAG C CAG G GACAGAAAAGGAAGGAAGGGGAAAAAAGAAAGGGGGG $C \subset A A A G G G A G G G G G G G A G G A A G G A G G A A C C G G G G C A A A A A A G$ $A C A G A A A A G G C A A A G G C A G G A A G G G G G G G G A G G A A A G G A G G G$ A A GAGGGGAGCCAGGGAGCCACGGCCCCGGAAGGACGGGGCA
 G G GAACGGAAACGGAAGGAGGAGGCCAGGGAAAAACAAGGCC C C G A C A A A G GAA A A G GCCGGGGAGAAAACCAGGAA G G G G GA G A $G G C C A G A A G A A A G G G A A G A G C C G G G G A A A G A A A A A G G G A A G G$ A A G G A GACGAGGAGGAAAGAAGGGGGAAAGAAAAGAAAAAAA
 A G A A G G A G G G A G G G A A A $\mathcal{A} G G G G C C A A A C G G G G A G A G G G A G A G$ G G G G G G G G G G G GAA $A \operatorname{GGGAGGGAGGGGGGAAACAAGAAAGGGA}$ GAAACCTAAAGAGGCCGGGGAAGGAACGGGAAGAAGAGAGAC
 A A G G G GAAAAGGAAGGAAAACCGACCGAAACCGGGGAAGGAA GAGGAAAGAAGAGAGGAAAAGGAAGGAAAGAGGGAAAGGGCC
 A G G A A C A A G G A A A A C G G G GACCAGAAAAGAGGGGGGAGAACC AAAGAAGGCCAGAAAAAGGGAAAGAAAGCAAAAGGGGGAGTT G G G G G GCAGGAAAAAAACAGGGAAACGAAAGGGAAAGAGAGG CAGGGGGGAAGGGGAAAGCCCCAGGGCAAACCAAAAGAAAAG C C G G A A G A A CAAGCAGGACAAGCATTAAGGCCAAGCCCAA G G $G G A A A A G G A A G G G G A A G G G G C C G G A A G G G G A A A A A A G G A A G A$ $C \subset A A G G G G C C G G A A G G G G G G G G G G A A A A A A C C G G G G A A G G G G$

A A A A G G G G G GAAGGGAGAGAGAGACAACGAAAGGAGGAAGCA

 CAGGGAGACGACAGAGCAAAGAAAACCCGGGAGGAACAAAA G CAAA $A \operatorname{A} A A A A A G A A G G G G A A A A G A A G A G G G A G A A G G G A C C A G$
 TATTAGGGCCACAAAAGGCCGGGGCAAGCCAGGGGGCCAAGA GAGGGGGGACGGAACCGACCGGGAAGAAAAAAAAAACACAAA G GCCCCAAACGGGGGGAGAAAGACAAGAGGAGAGGGTTAAGAG G GAAGGGGAAGGAAGGAAAACAAGGGCCGGAAAAAAAAAGGG A A G GAAAACCCAGAGGAAGGAGGGAAGGAGAGGAGAACCCGG G GAGCAGACCGGACCAAGAAGAGAAAAAAAAAAAGAAAGGGG G GAA $A \operatorname{GAAAAGGGAAAAACCCAAGGGGAAGGGAAGAGAGAAGG}$ GACCGGAAAGGAGGGGAGGGGGGGAAAAAGAAAGAGGGGGGA G G GAAGAACCCAAAAACAGGCAGAAAGAAACAATGGGGAAAA G G G GAAGGACAAGAGACAGGCCGGACGGGGAAAAAAAACAAA
 ACGGAAAAAGGGATGGCCAGGAAAAAAAAAGGAATTCCGAGG AAAGGAAGGAGGAAGCGAGGGCCCAACCGGGGGGAAGAGGAA CAAAGGAAGGAGGAAAAACCAGCCAGAAAAGGAAGBAAAAGA TTAAAGAGCAGGCCGAAAAAGGCCAAGGAAAGGGAAGCCCGG T TAAAGGAAAAGACGGGGAGGGAGAAGGAGAAGAAAAAGAAA A A GAAAGGAAAAAAAAAAAAGAGAAAGAAGAGACGBAAGGAA G GCCAGCAAGAGAGAGAGGGAAGGGGTTCCGGACAAGGAAAA A A G A A A A C A A A A A A A A CA $\mathcal{A} G G G G G G G A G G G G G A G A G A C A C A A$ A GAAGGCCCCAAAGAACCAAAAAAGGGGAAAGAAAGAGAAAG AACAAA $A \operatorname{A} G A A A A A G A A A A G G T T G G G G G A G A G G A G A A G G G G G A$ GAAGGAGGGGACAGCCGGAACAGGCAGGAAGGGGAAGGAGAA G G GAAACCGGACAAAACCCCACGGCCACGGCCAAGGGAAGAA GAACGGAAAGGACAGGAGAGGAGGGGGGAAGGAGGACCAAGA G G G G A A A A A G A C A A A A A A G G A A A A A G A A A G G G G G G G G G A A G G G G G G A A G A G G G G G G C C C A G G A G G G G A G G G G A A G G G G A A A A G G GAGGGAAAGGGGGGGGGGGGGAAGGGCAAGGGGGAACAAAGG A G G A G GCC $C$ G $\operatorname{CAGGGAGGGAGCCAGGGGGCCGAAACCATGAGG}$ A G G A C C A A G G A A A A G G G G G G A A A G GAAAAAGAAGGAGGAAAA G G GAAAAGGAAAAGGAGATGAGGCCAAGGAAGGGGGGGGCAAA
 GGCAAAGAAAAAGGAAGAGAAGGGGGGGAAAGGAAAAGCCBG

 $G G A A A A C G G G G G G G G A A G A G G G C A G G A A G G G G G B A A G G G G G A$ A GCC G A G G A A G A A A GAGAGAGGCCAGAAGAGGGACAAAAACC G G G GAGGAGGGGCAAAGAAAAGGGAAGGGGGAAACCAAAAAA G G G A G G G G G G A A G G G G A A A G A G A A G G A GAGGAA GAGAA G G G A A G G A G G A A A G A A G G A A GAA A A A G G TAA A A C G G C C A A G G G G A A
 G G G A A A G A A G A C G A GAGGAAGGAAGAGGGGAAAACCTXAA G G A A A A A A A C G G G GAGGAAAGACCACAGGGAGAAGGAACAAGAC AAAAGGAAAAAGGGAAGGGGAAAGGGCAAGGAGAGAGGAGAA
 $A C G A A A G G A A A A A A A A C C G G A G C C A A G G A A A G G G G G G G A G A A$
 ACAGAGGAAGCCGAGGGAACGGGAAAGGAAACAAAAGAACAG $A G T T A A C C G A A A G G A A G G A A G G G G G A C A A G G A A G A A G G G G C C$ AAAAGAATAAGGAGGGAAAAAGAAAAGGAAGGAACCAAAAAA A A G G A A G G A G A A A A G G G GCCAAAACCGAGAACAAGGGGGGGA
 TACAGACAAAAGAGGGGGGGAAGGAAGAGGAGAGGAABAGCC GAACGGGGCAGGGGAAAAGGAGAGGGGGAGAGAAA GACGGGA

G GAGAAGAAGAAGGGAAAACAAAGGGGGAGAGAGACGGCCGG G G G G A A A A A A A A G G GAGGGGGAACGGAAGGCAGAAGAAAA G G A A C C A A A G A G G A G A A GCAGACAGAGAGAAAGGAGCAAAAAAA A G GA $\operatorname{A} A C C G G A G G A C C G G A G C C G G G G A G G C G A G G G G A C A A G G$ A GAA $\operatorname{A}$ GAGAGAAGAGGGGAGAAAAAACCGGCCAAAAGGGAGG G G G G A A A A $\mathcal{A} G G G A A G G G G A A A A G G C C G G A A A A G G G G A G A A A G$ A A G G A A G G G G G GAAAAAAAAAGGCAGGGGCCGGGGAACAAAAA AA $A G A A G G A A G G A A G G A A G G C C A A A A G G G G C A A C C A A A A A A$ A A C C G GCCCC G G A A G G G G G G G G A A A A G GAA A G G GA G G G A A A A GGAACCCCAGGGAAAAAAAGAAGGGGAAGAAGCCAAGGAGGA GAAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A C A G G A G G A A A G A A A G G A T A G A A G G G A G G G G$ G GAGGGAGGGAAGGAAAGCAGGAGGGGGGGGAGGAAAAAAGA
 A A G A A A G G G G G A A A A A A A A A A A A A G G C CAA A G GAAAACA A A G
 $C \subset G G A A G G C C G G A A G G A A A A G G A A C C A A A A A A G G G G A A G G G G$ A A A A A A A A A A G GAAAAAAAAGGAAAAAAAAAAAAAAAA G AAGG A A A A G G G G A A A A G GAA A GAAGGGAGAAGGGAGGGAGAAAGGG $G G A A G G G A A G A A G G G A A A G G G A A A A A G G A G A A A G C A A A A G A A$ GACCGAACAGGGGGGGGGGGGGGGAAAGAAGACCGACCAACC G GACGGAAAGGGCCAGAAGGAAAGGAGGAACCAAAACCAGGG AAAACCGGGGAAGGAAAGGGGAGGGGGGAAGAAAGGCAAACA G G G GAAAATAAGAACCGGAACCAAAAGGGGAAGGGBAACCGG GAACAGACAAAGGGGGGGAGGGGGCCAAACACGGGGG
G GAGGGAAGCCAAGGGGGAGGGGAGAAGGAAGGAAGGGGGG A A G G G G G G G A A C G G G A A G G G G G G G G G G G C C A G G G C C A G A G A A A A G GAA A G G G G GAA A A G G G GAGAACCGGGAGAGAAAGGAA GA A A A A A GAGAAAAGGGGCCGGAGGAGAGGAGGAAAAGAGGGGG GAAAAAGAAAGAGGGAAGACCCAGAAGGGGGAAACCAGAAAA A GAGGGGGAAACGAACGGGGTAAGAGGGCCGAAAAACCAAGA G G G G A G G A A A G G A A G A $\mathcal{A} G G G G A A G G G G G G A A G G A G G G G A A G G$ A GAGGAGGAAGAGAAAAAGGGGAAAAGGAAAAGGAAAACCGG A A G GCCGGGGAAAGAAGAAGGGGGGGGGGGAAAAGGAACCCC AAGGGAAGGACCGAGAGGCCAAACAGAAAAAGCAAGCAAAGG
 A G G G G G G G GAGGGAAAAAAAAGCCGGAAAAAAAAGGABAACC G GAAAGAATTGGCCGGAGAGAGGGAAGGAACCAAAAGAAGGG G GAGGAAAGGGGGAGGCCGGCAACGGGAAAAAGGCCAACAAAA A A A A A A GAGGGGGAGGAGAAAAAGAAAAGAGGAACAGGAAGG A A A G G A G G GAAAA A A GAGCAGGGGACGAAAAAAA GAGAAAAA $G G C C A A A G G G G A A A G A A A A G G A G A A G G A A A A A G G A A G G A A G B$ G GCCGGGGGAGGACAGAAAAAAAAAAAGACAAGGCACAAGGA AACAGGAGGGGGGAGAGGGGGGAAGGAGCCCCGGGGAAAAAA A A G A G A A G G G G A A G G G G G A G G A A A A A GAAAAACC G GAAA A A G A A G G G G A A A G C A G G A A G G A C A A G G A G G G G G A A G G A A G G C G G A C C C C C C C CAG G A CAAAAAGGAAAAAAGGGGGGATAGCCAACC A GCCAAAAAAGGGGAAAGAGGGGGAAGGGAAAAGGAAGA G GAA G G G G G G A A A A C C G G A G G G G G G A G A A A A A G G A G A G G G G G T T A A ACGAAAAAGGCCAAAGAAAGAGAGAAGGAGGGCCGGCCAAAG ACAGAGGGGGGGGGGGAAAAAAGGAAAACATAAGAAGA GAAG GAGGAAAAGGGAAAGGAAGGCCGGCCGAAGAAGAGGGAAAAA $G G A C G A A G G G G G G A A A A A A A G G C C G G G G G A G G G G A A C C G G G G$ AC G A A A C C G G T T G G A A G G G GAA $A$ C $C$ A A G G G GCC C C A A C C G G G G A GCGAGGAGAGGAAAGAGAAGCAAAAGAAATTCCGGGGGAAA C C G G G G A A A GAA $A \operatorname{GCA} C A G A G G A C A G G G C A A A G A G G G A A A C A$ CCAAAAAAACAGGGGGAAAGCAAAAAAAAAACGGAGGGAAAA A A G G G G G G G G A A G A G G A G G A A A A A A A C C G G G G A GA G C A G A G A GAGAGAAGGAAAGGGGAACAAAGGCAAAAAAACAGGGGAACAC $G G A A G A G G A A G G G G A A A A A G G G A A G G G G G G G G G G G G A A G A A A$

G GAAGAAGACCAAAAGGGTTGGACAAGGAAAACCCCAAGAAA GGCCGGAAAAAAGGCCCCAGAGCACCAGCCCCGGGGAAGGAA GAAAGGGGGGAAGGGGGGGGAGATAAAGAGCAAGAAGGAGAA G GAGAAAGAAGGAGGAGGGAAAAGGGGGAAGGGAGAAAGAAA G G G GAAAAAGGGAGGGAAAAAAAAAAAGGAGGCAGAGGGGGA C C G GCCGGAAAACACCCCGGGGGGAAGCGGGGGGAACAAGGG
 AAAGCCAGAAGGGGAAGGAAGGGGGGAACCGGAAAGAGAAGG A A A A C C C G G G A A T T G G A G G A A G A A G G G G G G A A A A G G A A G G A A A GAGACAGAAAGGGAAGGGGAAAGAAGAGGGGGGGGAAGGAA A G G A A G G G G GAA $A \operatorname{GAA} A G G A G G C C A A G G G A A A G G A G G A C C A G$ G GCACCAGGGAAGGAAAGAAACAAGGGGAAGAGAACGAAAAG A A G GAA A G G GAAAGCCAGCCGGACAAAGAGAGAGACGGAGBA
 G G G G G G A A A A A C G G G G A A G G G G A A A A G G A A G G A A C C G G G G G G A GAACCAAAAGGGGGCAGAAACAAGAGGCCAAGGGGAGAGAG A A A G G A C C G G A A C C G G G G T T A A A A C C G G G GAA G GAA G G C C A A GAGGCCGGAGAAACAAAAGGGAGAAGAAAGCAGAAGGGAGBA $G G A A C A G A G A G G A A A G G G G G A A A A A A A A G G A C G A A G A G A A A A$ GGCCGACCGAGGGAAAAAAAAAGAAAGAAGGACCGGAGAAAA GAGGAGGAAGAGCCAGGGGAGGAGAACCAAGGGAACAAAAAG A A T T G G G CAGGGAAGGAAAAGGAAGGGGAAGGCCCACAAAAA A G G G A G A A GAGGAGAACCGGAGCCAAAGGGGGAAAATACACC G G G G G G G G A G G A G G A A G G G G C A A GACGAAGAGGAAGAAAAAA A A A A A A A CAAAAAAAAAAAAAAGGAGGGGGCAAGAGGACCAA
 G G G GAAAAGGGGGGAAAGAGAACGCAAAACGAGGGGGGGGGG G GACGACAGAGAAGGAGAAGAAAGAGGGACTTAAGAAAGAAA A GAGAGGGAAAAAAAAAGGAAGAGGAACAGAGGAGGGGAGAA G G G A A A A C A A G G G GAGGGGGGGAAAAAAAAAAGGGGAAAAAA AAAAAAAAGGCCCCAAAAAAAAAAAAAAAAGGGGAAAAGGCC

 G G C C A A A A G G G GC C A A G G G GCC G G G G G G C C A A A A G G G GAAC C G G A A G G A A $\mathcal{A} G G G A A G G G G G G C C G G G G G G G G A A G G G G A A A A A A$
 G GAAAAAAGGAAAAAAGGGGGGGGAAAAGGGGGGGGGAAAGA AACCGGAAAAAAGGGGGGCCGGGGAAGGAAGGGGAAGAAAAA A A G G A A A A GAGGAAGAGGAGGGCCGGAAAAAGGGAAAAAAAG G GAGGGAAGGAGGAGAAAGGAAGGAAGGGGGAAAA GAA GAAG GAAAAGAAGAAGGGACAAGGAAAGAAGGGGAAGAAAGGAGAA G GAGGAAAAAGAAAAAACGGGAAGACGAAGAGGAGAAGAAGAG GACAAGAGCAGGAAAGCAAAAAGAGGGAGGGGAGGAAAGAAA G GCCGGAGAAAAAAGGAGAGGAAGGAAAGGGGGAGAAAAAAG A A A A G A A G A A GAGAGGCACAGGGGACGGAAAGAAGAGAGGGG $G G G A A G A A A G G A A A G A G G C A G G A G G G A A A A A A A A A A G G A A G G$ A A C C G G G G G G G G G A G G A A A A A G C A GAAA A GAAAACAA A A CAA A G G G G G GCCAAAAAGGAAAAAACGGGGGGCAAGAGGGGAAACC AAAGAACAGGAAAGAAGGGAAGGAGGAAAAGAGGAAAAGGGG G G G G A A G G A A G GAA $A \operatorname{G} G A A C C G G C C C A G A A A G A G G G A G G C A G G$ AAAGAGCAACAAGGGAGGAGGGGGAAGGAGGAGAAAGAAACC AA $A \operatorname{GGG} G \mathrm{G}$ GACAGAACCGGGGACGACCGAAGAGGAAAAGGGGG GAGGAAAAGGAAGGAAAAGGAGCAAAGGGGAGAAAGAGAAGA A GAAAAGAGATTAAGGGGGGGAAAAGGGGGAAGGGGCAAAAG A A GAGGGAGGGACCGGGGCCGAGGAAGGAAAGGGAAGGAAAA G G G G G A A GCC G ACCAGAGACGGCCGAGGACGGAAAAAAAAGA G G G G A G A T A G A A C C G G G G GAC CAAAA A C CA G G G C C G G G G G G C A G G G G A A A A A GCAG G G G A A A A A GAGACGGAACCAAA GACAGA G GAAGAACCAAAGAGAAAAGGAAGAAACCAACAAAAGCCAAAA

G GAA A A G G A CAGAAGGGAGAGGGGAAGGAGGGAAGAGAAGAG
 AAAAAGAAAAAGAAAGGGAAAAAGAAAAGGAGAGGGGGAGAAA AAAGGAGGGGCCGGGAAGGAAAAAGGGGGGAGCCAAGGAGAC G G G GCCGGAAGGGGCCAAGGCCACGGGGGGGGGGGGGBAAAA G G G G A A A A C C A A A A $\mathcal{A} G G G G G G G A A G G G G G G A A C C A A A A A A A A$ G G A A G G G G G G G GAA $A \operatorname{GGG} G A A G G A A G G C C C C A A A A A A G G G G C C$ CCGGAAAGAGGGGGCCGAAAAAAAAGGGGAAAGAAGAAAGAC
 GAGAGGGGCAACGGGAAGGGGGGGCCGGGAAAGGCCAAGGAG
 A A G G G G G G G G G A A G A G G A A G A G A A A G A A G GAA $A$ G A G GA G G A A C C G G G G A G A G G G A A $\mathcal{A} G G G G G A G A A G G G G G G G G G G C C A A G G A G$
 A A G G A A G G G G A A G G G G G G A A G G G G A A A A G GAAAAAACAAAC C CCAAAAGGAACCGGAAAAGGCCAGGGAAAAAGAAGGGACCAA A A A A A A G A A A A GCC GAGGAAGGAAAAGGGGGGACAAGCAAAC A A A G A A GAGGGGAGGAAAAAGGAAGGAAGGGGGGAAAAAAAC AACACAACAAAGAGAGAGAAGGAACCGGGGAGAGCAAAGGGA G G G G G A G G A A A A A A $A \operatorname{GGGGGGGA} G A G A G G A G G C G G A G C C G G G A$ A G G G G G G GAAAGCCGGAGAGAGGGGAAAAAGAGAAGAAGAAA
 A A A A A GCCGGGAAGAAAAGGAAGAGAGGCCAGACAGAGAGAT $G G C A G A G G G G G A G A G G A A A G G G G A C G G G G G A A C A G G A$
 AACCCCAA AGCACCAAGACAAGGGAAGGGGGGGGGGAGAGGG A G G GAGGGGGGGGAAAAACCAGAGAGAAGGGGAAGGGGAATT CAGGAGAAGGCCAACCAAGGAAAAAAGGAACCAGAAAAAAAG A A A A G A A G A G G G A A A A GAAAAAAAAGCCAAGGACAAGGACAA AAAAGGGAAGAGAGGAAAGAAAGGGGGGGAACGAGAAGACAA A A G A A G A A A A G A G G A A A A G G G A G G G A A G A A G G A A G G C A G A A A T T G GAA AGAAAAGGAAAAGGAAAAGAAGAGGAACAAAAAACC G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G G G G G G G G GAGGCCGAAGGGAGGAAGAGAGCCGGAAGGGGAAAA A A G GAGGGAAAAGGAGCCGGAAGACCAGACGGGGGGGAAAAAA A A G G A G G G G G G G G G G G A A A C G A C C G G A A A A G GC C G G G G C A T A G GAGCAAGGGGGAAGGGGCCAAAAGGGGGGAGGAGGAAAAAC AAA A A A A A A A A A G G GAAAAGGAAAAAGGGAAACCGGGAGAAA AA $A G A A C C G G G G A A G G A G C C G G A A G G A G A A A A G G A A A A A A G G$ A A A A A A A A G G A A A A A A A A A A A G G GAGAGAGACGGGGA GAGAC C CAGAAAGAAAAAGCAGGCGAAAAAAAAGGGGAACAGGAAAA C C G G A A A G G G G A A A A G G G G G A G A C A G C C G G A G G G A A G G G A A $G$ G G G GAA A A A A G G G GAAGGACGGCCAAAAGGAAAAGGAAACAA
 CAAACCAGCAACCAGGAAGGAACAAGGGGGACAAGGGACCBG GAAAGGACGGCCCCCCAGAAGGGGGGAAGAAAAAAAAAAAGA GAGAAAAGAGACCAAGCCAAGGAAAGGAAGAGGGAAAAGAAA ACAAAAAAGAGGAAAAGGAAGGAAGGGGGGAAGAAAAAAAAA G GAA A G GAAA A GAGGAAGGGAAGAGGAAAAAGGGAAAGAAGA CAATAGAGAAAGGGAAGGAGGGCCTAAAGGAGCCCCAGAGGA AAAAGGAACCCCGGGGAGAAAAAAGGGGAAAGAGAAAGAGGG GGACCCCAGAGAGGAGAAAAAACCGGAACCAAAGAAGGGGGA G G A A A G A G A G A G G A G G G G A A A A G G A A A G G G A A C A C A A A A A A A ACGAGGAAACGGGGAGAAGGGGAGACGGGGAGAGAGAACCAA A G A A G A GAAAGGGGGGAGAGGACCGGAAACGAAGGAGAAAAG G G G G A A A G A A A T G G G G A G A G A A A A G GAC G G C C A G A G G G A G G G G G G G G G A A A A A GA G C C C A G G T T A G G G G G G G GA G A C A G A G G A G GAAACAAGAGCCAAAACAGGAGCCGGAACCCCGAGAGGGAAA GAGGAAAAAAGGGGGAAAAAAAGGGGGGGGGGGGAAAGAGAA

AAAAGGAAGACCCGGGGGAGGAAAGGAAAAGGGGGAAAGGGG A A G GCCGGGGCCAGGGAAAAAAAAGGAAAGAGAGAAGAAA GA $G G G A C A A G G G G A G A G G G G A A A C A G G A G A A G G A A G G G A G A G A G$ GAGGAGAAGGCCAAGAGGGAGAGGAAAGGGAAGGGAAGGGGG GAAAAGAAAGGGAATACCGGATGGACCAGGGGAAGGGAAAAA C CAAAAAAGGAAAAAGCCAAAAAGAAGGGGGGAAGAAAGGAG G G A A G A G A A G A G G G A G G A G G A A G A A GAGGGAGGGGGGGCC G AAAACCGGAGGAAAAGAGCAGAGGAAAAGGAAACGAACACAC A G G G G GAAA A GAAACCAAGGAAAAGGAAAAGGATAAGAGCTT GAGGAAAGAAAAACACAGAAAAGGCAGGATAAAAAACC G GAA A GAAAAGGCCGGAAAACCAAAAAAACAGAGGGCAGAGGAGAAA G G G G G GAGGGAAGGAAAGAAGGAGAAAGAACCAAAGGGAAAG C CAGGAGGGAAGGAAAGGAGAAAAAGAAAGGACCAAAAAGAA
 G GAACAAAGAGGAAAGGGGAGAGAGGAAGAAGAAAGAGAGAA ACAACCAGGGGGACATGGAGAACACGCCAACAGGAAGAAAGA A A G G G GCA $\operatorname{CA} A A A G G G A A G C A A C A A G G G G G G A T G G G A A G G G G G$ G G G A A A G G A A A A G GAGAGACCCAAGGAAGAAGAGCCAAGAAA A G GAAAAAGAGGAAGGAGGGTAAAGGGAGACCCCGACAAAAA A A A C G A A A GAGGAACCAAAGGGAGGGCCGGACAAAAGACAGG AAAAACGAAACCGACCAAGGGGAAGGGGGGAAGAAGAGAGGG AACAGGAGGACAGACAAGGAAGACGCCAAAGAAAAAAAGGAA ACACAAAAAAAACCGGCGGGAAAAGGACCAAGGGAAAAAAAA
 GACGAAGAGGACGGGGGAGGGGGGGGAGGAAGCAAGAAGGAG G GAA A G GAAAAAAAGGGGGAAAGGAAAAGGGGGGGGAAABAA $C \subset G A C A A G C A A G G G A A G A A A G G A G G G A A G G A A A G G A G G G A A A$ G G A A C A G G A A A G G G G G G G G G G G A A A A G G T T G G G G C C G G A G G A A A GAGGGGAAGGATAAAGAAGGAAAAGGGGCCAAAGGAAAAA AAGGGAGGAAAAGACAAAAGGAAGGGAAAAAAGAAAAGAGAA GAGAAGAACCGGAGACGGAAAGGGGAAAGGGGCCBGAGGGCC AAGGGAGGCCAGAAAGCCAACAGAAAAAAAACGAGGAAAGGG A GAA A G G G G G G GAAAACCGGCCGGAGAAAGGGGACAGAAGAA ACCGGGCAAAGGAAGAAAACAGGGAAAGGGAAAGACAAAGCC AAACGGAAACAAGGAAGAACCAGCAGAAAAAGGAGGGCAAAA G G G G G A A A A A G A G G A A A G GAGGGGCCGAGGGGACA GAAAG G G GAAGACAAGGGGGGAAAGAAAGGGGGAGGGAGGGAAGAAAAA
 AACCAGGGGAAAGAACAAGGAAGGCAGAAGGGGGAAAGAGGG A A A A G GAA A ACCAAACAGGAAAGGGGCAAGGGGAGGTAAA G G AAAGGGGAGGAAGAGGAAGGAAAAGGGGAGGAAAGAAACCAC A G G GAA A G G G G GAAAGGGAGAAGGGGAGCACCGGCAACAGAG AAGGCCGGCCGAGACCAGAGGGAAGAGGCCAAGGGGAGAAGA AAAGGGACAGGGGGAAAAACGGAAGGCCGGAAAAGAAGAAAA GACAGGGGGGAGGAGGCCGGGAGGGGGAAGAAGGGAAAAGAA A G GAA A G G CCAAAGAACGGGGGGAAGAAACAAAGGGGGGAGAA $G G A G A A A A C G G G C C G G G G G A G G G G G G A G G G A G C C G G G G A A C A$ G G G A A A G A GAGAGGGGGGGGGGAAAAAAAAAAGAAAAGACAC
 G G G G G G G A GAA A $A \operatorname{A}$ GACAAGGAAAGGGAAAAGAGATAGAGGAA
 A A A G GAA $A$ A A A G $\operatorname{A} A \mathrm{~A} A A G G A A G G G G G G A A G G A A G G A C A A A A A G$ G G G A C C G G A A G G G C C A GAGGGGACAGACGGGGAGAAAA G G C C AGGAGAAGGAACAAGGGGAGAAAAAAAACCAGGAGGGGGACA

 GAAAACGGAGAGCCATGGAATTCCAAAAAGGGAACGAAGGAC $G G A A G G A G A A A A G G G A A A G G T T A G A A C G G A G A G G G G A A A A C A$ AAAGGGAAAAGGGGAAGAGGGGAACAACGAAGAAAAGGGGAG

G G G GAGAAAAAGGAAACCAAGGGGGAGGAAAGGGGGAAAAAA
 C CAAACAAGGAAGGAAGGCCCCAAAAGAGAGAAAGGGGAAGB AGGGGAAAAACCAGGCCCAAGGGGAAAAAAGGGAGAGGAGGG GAGGGGGAGGAAAAGGACGAGAAACAGGAACAAAGGGGCCGG AAGGCACAAGGGTAAGACCCGACCGGAAGGAGGGAAAAACCC A G T T T T G G A A G G G G A G G A A G G C A G A A G G G G C A A A C C G G A A G A CCGGGGAACCGGGGGGAAGGGAGAAAACGGGACCCAAAAACA A A G G G G A A A G G G G G A A G G A GAGAAGAAGGGAACCGAAAAAAA AA $A G A A A A G G A A A A G A A G A G A A G G G G G G A G A A C C G G A A G A G G$ G G G G GAGACCAAAGAGACAAAAAAGGAAAAAAAAAGAAAAGG G G A G A A A A A A T T G GAA G GAGAAGAAAGGGAGGGAAAAAAGGG A G A A A G G G A A A GCCGGGGAAAGAGAGAAGAGAAAACGAAGAA G GAA $A \operatorname{GAA} A C A C A G G A G G G G A A G G G G G G G G A G G G A A A A G A A G$ GACAAAGGGGGACCGGGGAGCACAAGGAGGAAGGGACAAAAG
 GAAAGAACGAGAGGGGAGAAAGGGAAGGGGAGCCAGAGAAAA A A G G G GAGGGAAAAAAGGGGGGAGGGGAAAAAAGAAAAAAAG $A G C C G G A A G G A G G G G A A G A T A A C C A G G G A C G A A G C C A G A G A A$ A A G A A A A A $\mathcal{A} G G G G G G G G G G G G G A G G G G G G A A A A G C C A A A G A A$ A GAGAACAAAGGAAGAAAAAAGCCAAAAGGAGGGGAAAAAGG

 GACCGGAAGGCCCCGGGAAAAACCAAAGGAGGGGAGG
G G GCCAAGAGGGGGGGAGGCCAAAACAGACCGGAACAGAAC G GAGGACAGACCGGGGAAAGACAGAAAAGGAAGGAAAAGGAC AAA A A G G G G G G G G G A A A G G G C A A GAAA A A A G G G GA G GA G GAA A A A G G G G A G G G A G A A G A T G A A A G G G GAC G GAGGGGAAA G G G A G GCAGGAGGAAACCAAAAAGAGGAGAAACGGAAACAGAATAG GGAAGGGGACAGAACCAAAGCCGGACAAAAGGGAAAGGAAAA A G G G G G C A G A A A G A G G G G A A G A G A A G G A G G G G C C G G G A A A G G GAAGAGAAAAAAAGGGAAAGATGGAAGGGGAGAAAAAGAAAA A GAAAAAAGGGGCAAAGGGAGGAGCAGGGGGACAAAAAAAGG G GAAAAAGCAAGAGGGGGGAGGAAAACAAAAACCAAGGAGAA GAAAGCGGAAGGGGAAAAAGAAGGGGCCAAGGGGGGAAAA GA
 G GAAAGAGAGAAAGAGAAACAAGGGGAAACGGCCGGCCGGGG AAAAGGGACCAAAGGGAGGGTTAACGAAAGAAGAAAACGBAA G GAGGGAAAAAGAGAAAAAGGGGAAGAAGGGGAAAAACAAAA G GAA $A \operatorname{GAA} A G G G G G G G A A A A G A G G A A C C A G A A A A C C G G G G G G$ $C \subset C C A G A A G G G G A C A G G G G A A G A A G G G G G A G G A A C A G A C C A G$ C C G G G A A C A G G G A G A A G A G G G G A A G A A G A A G G G G G G A A A T A A A A G GAGCCAAGGGGGGGGGGGGACGGCCGGGAGAAGAACAAG A A A A G GAGGGGAAAGGGGAGAGGAGCGGGAGAGGGGAGAGAA G GAGAAAAGAAAGGAAGCGAAGAAAAAAGGAGGGGAAAAAGAG G G G A A A G G G GCCGGGAATAAGAAAAAGAAGAAACAGCA GA GA CAAAAAAGGGGGCCGAGGGAAAAGACGAAGAAAAAACCCCGG GAAACCGGAGACCAAAAGAAGCGCAAGGAAGGACCCGGAAGG A G G GAGACAAAGGAAAGGCAAAGGAAGGGGAGGGAAAAGGCC G GAGGGACCAAACCGGAAAAGGAAGAAGCCGGAGGGCCAAAG C C G G G A A A A A A G GAAA A GACAGGAAAAAAAGGGGAGAAAGAA $G C A A G G A A C C A C G A C C G G A A G G A A G G G G A G A A G G G G A A G G G G$ A A A A C A A A G G A G A A G A A A C C G A G A GAGGGGAAAA GGGAAAA G CAAAGGAAAAGACCGAGAAACCGGAAAAAAGGGAGAGGGGCC
 G G G A A G A A A G G GAAAAGGAGAGGGAGCAAAACAAGGAAAAAA
 A A G G A CAGGAGGAAGGGAAAAAAGAAGGGGCCAAAAGAAGAA G GAGAAAAGAGGAAGAGGAGAAGAGGAAGGAAAAGAGAAAAA

GAACCCGAAGAGAGAAAACCCCAAAGCCGAGGTAAAAAAAA A A A C A A A A G G G A A A A A A A G G G A A A A G GAGGGGAAAA G GAAA A AAACAGAGACCCGGGAGAGGAGGGAAAAGGAAGGGAAAAAGAG A GAGGGGGAGAACCAAAAAAGGCACGGGGAGAAAGGAGAAAA G GAA $A \operatorname{GGGA} G A G G A A A A G C A G G A A G G A A A A C C G G A C A G A G G A$ GAGAAAAAAAAAGGCAGGCCCAAAGGGGGGAAAAGGAGAGCC AACCGGCCGGGGGGAAAAGGAACCGGGGAAGGAAAACCAAAA
 G G A A G G A A A A A A G G G G A A A A G G G G G G C C G G G G G G G G G G G G G G AAAAGGCCAAGGGGGGAACCGGGGAAGGAAGGAAGGCCAAAA G G G G G GAACCAAAAAAAAGGGGAACCAACCGGGGGGAAAAAG A A G G G G G G A A A A A A A A C C A A A A G GAA $A \operatorname{AGGGGGGGAAGGAGAA}$ A A G G G G G G G G C C G G A A G G G G G G A A A A A A A A T T A A A A G G A A G G
 A A A A C CAA A A G GAAGGAAAAAAGGGGAAGGGGAAGGAAAAAA G GCCGGGGGGAAAAGGGGAAGGAAAAAAGGCCGGAAAAGAAA G G G G G GCCAA $\mathcal{C} G \mathrm{G} G \mathrm{~A} A A A A G G A A G G A A G G G G G G$
 A A A A A ACCCCCCGGGGGGAAAAAAGGAAGGGGCCGAAAGGAA C C A A A A G G G G A A G G G G G G C C G G G G A A G G C C G G G G C C G G G G A A AACCAAAAGGGGAAGGAAGGGGAAGGCCGGGGAAGGAAGAAA $C \subset G G A A A A A A G G G G C C G G G G C C G G G G G G G G A A A A G G G A A A A A$ C C A A A A G G C C A A G G G G A A G G G G G G A A G G G G G G A A G G A A A A $G$ G
 G G G G G G G G A A C C A A A A A A A A A A A A C C G G G G G GCCG GAAAAAA A A A A A A G G G G G G G G G G G G A A G G A A G G A A G G C C G G G G A A G G G G C C G G G G G GCC G G G GAA A GAAAAAA A GAAACAAAGGGGGAAAG G A A G GAACCGGCCAACCAAGGAAGGGGTTGGAAGGAGTTAAGG A A G G G GAA $A \operatorname{GAA} C \subset A A G G A A A A A A A A T T C C G G G G C C A A G G A A$ AAGGAAGGAAGGAAGGAAAAGGAAAAGGGGAAAACCGBAAAA A A A A A A A A A A G G A A G G C C A A G G G G C C G G G G G G A A A A A A G G A A AAAACCAAAAAAAAGGCCGGGGGGAAGGAAAAAAGGGGGGGG G G G G A A A A G GAACCAAAAGGGGGGGGCCGGAAGGAAAAAAAA G G A A A A A A G G A A A A G G G G G GAACCAAGGAAAAAAGGGGCCAA G G G G G G G G C C C C C C G G G G G G G G G G G G G G G G A A A A A A A A G G A A A A G G G G A A G G A A G G G G C C A A G G G G G G G G C C G G T T G G G G A A G G G GAAAACCGGGGAACCAAAAGGAAAAAAGGCCGGAAGGAGAA G GAAAAGGAAAACCCCGGGGAAAAAACCGGGGAAGGGGCCAA
 A A A A G G A A A A G G G G G G A A A A G G G G A A G GAAAA A G A A A A A A G G G G G G A A A A G G G G G GCCAAGGGGCCCCAAAAAACCAAGGCCGG C C A A A A A A $\mathcal{A} G G G A A G G G G G G A A G G G G A A G G A A G G A A A A G G C C$ G G G GAAGGTTAAAAGGGGGGAAAACCAAAAAAAACCAAGGGG A A G G A A A A G GAACC G GAAAAAGGAGACGGAAGAAC GAGAAAGA GAAAGGAGGAACGAAAGAAAACGGACAGGGAAGGAAGGAGAA A G G G G G G G A A A GAGAACCAGAAACCAGGGGGAGAA G GA G G CA A A A C C C C A A A A A A CAA G GAA G GAA G GACCAAAAACGGGGAGGG CAGATAGGTAGACCGAGGAGGAGGGGAAAGAAAGGGAGAGAA A G G GAAAAAGCCAAAAGAGGGAAGAGAGAAAAGGCCAAGGGG A A GAGACAGAGAGGGGAAAACCGGAGGGCCGAAGGAAAGAAA A G G A A A A G A G TAGGGGAAGGAGAGCCATGGAAAAAAAAGACA
 A A A A G A A G A C A A A A $\mathcal{A} G G G A A G G G G C C A G G G A A G A A C A G G G G G$ AAGGAGCCAGCCGAAGCGCCAGGGAAGGAAGGACAGCAAAAA AAACACGGAAGAAAAGGGGAGGGAAAGGAAGGGGAGAAAAAG
 A A TA $A$ A $A G G A A G A G G G G G A A G G A G A G A G A A A G A G A A G G G G G G$ $G G G G A G A A G G A A A A A A G G A A A A A A G G G A A A A G G C A G A A A A G G$ GGGAAGAGGGAGGGGACCGGGGAGAAAGAAGAAAGAGACCAC

G G GAAGGGAGCCGGGGACGAAAGAAGAGAGGGGGTAAGAGAA AAACCAGGAAGGAACCCAGGAGAGAGCCGAGGGGAGGGAAAA GACCGGAGAGAGAAAAAGAAAACCAAGGGGCCCCGAGAAAGA A A GAA A A T CA G GAGAGCCGGGGGACCAAAAGAGGCCGGGGGA G GAA A GAGGGAGGAGAAGAAAACACCGGGGAAAAGGACAAAG G GAGGGGGGGGAAAAGAGAAAAGAGGCCGAACGGAACCAAAA A A G A A A A A G GCCGAGAGAGGGGAAGGAACAGAAAAAGAAGAA A G GAGAAGAGAGGGAAAAGGAAGGAGGAAGAAAAAAGGAA GAG A G A A A A A A A A C C G G A A G G A A A C G GAGGGAA GAAC G G G G G G A G GGCCGGCCAAGGGGAAGGAAGGAAAAGACAAGAAAACCGGAA G G G GAAAAAAGAACAACCAGAGGGCCAAGAAAGGCCGAGGAG GAAGGGGGGGCCAGCCGGGAGACCCCCAGGAGAACCAAAAAG GAGGGAGGAAAAGGGGGACCAAAAAGAAGGAAAAAGGACCAG G GAACCGGGGCCCAAGGGAAGAAACCCCGGCCGAAGAGGGGG AAGAAAAAAAAAGGCAAGAGACAGGAAGGACAGAAGGAGAAA AAAGGGCCCACCACCCAAAGGGGAAAGGAAAGAAGAAGAGAA G GAA A GAAAAAAAAAACCGGGGAACCAAAGAAAAGGCCAGAA A GCAACGGAAAACAGAGGGGGGGAGGGGGGAGACAGGGCCGG AAGGAAGGGGAAAAAGGAAGGGACGAGGGAAAAACCAAAAAA C CAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A A A A C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ AAAAGAGGGAAGGAGGGGTTGGAAGGAGAAAAAAAAAACCGG GAAGAGGAGAAGAAAAAAAGGGAGAAACGAAGGAAAAAGGGG AAAGCAGGAAGGAAGGGGCCAAGGAGGGGGCCGGGGGGAAGA
 AAAGGAGGCCGACCGAGAAAAAAGGGCCGGCGAAAAGBAACC G GAATA $A$ A $A \operatorname{G} G A A A A G A C A G A A G A G A G G G A A A A G A A G G C A A A$ G GAA A A G G G G G GAAGGAAAGGGGAGGAACCAAAGGAAGAGAG C CAAAAGGAAAAAACCAAGACCAAAAAAGGAAGGACAGAGAA G G A A A A G A GA G A A A A A A A A A A A C CAAG GAGGGAGGAGAA GAA G G GAGGGGAAAAGAGGGGGAACAGGGAAGGGGGGCCCCGGGG G G A A G G G G A A A A G GAA $A \operatorname{G} \operatorname{A} A A G A G G C C G G G A G A G A A G A A A A G G$ AAAAAAGGAGAAGGAGGGCCGGGGGGAAAGCCAACAAAGGGG G $G T T G G G G A A G G G G A C G A A A G A A A G G G G G A A G G G G G A G A G A G$ $G G C A G A A G G G A G G A A G A A A G G A G G C A G A A A A A A G A A G G G G T T$
 A G G G G G A A G G G G C C G G G G A A G G A A A A G G A A C C A A C C A A G G G G G GAA A G G G G GAGAAAAAGGGAAGGGGGGGGAAAAAAAGGGCC G GAGCCGGGGAAAAGAGGGGAAGGGAGGGGAAGGAAGAAAAA G GAGGGGGGAAAAAGACCAACCAGGGAAAAGGAGAGGGACAA
 GAGGAGGGAAAGAGAAGAAAAAAAAGAAGGGGGGGGAAAGAA G G G G A A A G A A A A G G GAC C A A G G GAGGAAAAAGGGAA G G G G T T AAAGACGAGGATGAGGCCGGAAAAGGAAGGGAGAAAAGAGAG A G GAGGAGAGAGGAGAAAGGACCAAAAAAGGAAAGGGAAAAG ATGACACCGGGGCATTGGAAGGCCAGGGAAGGGGGCAGAAGG G G G G G G A A A A A A G G A A C C G GAAAA A G GAGAGAGAGGAAAAAC A A A C G G G A G A A A A G G A A A A G A A G GAA GAACAGTTGGAGAGAA
 AACCGGCCAAGGGGGGAAAAGGAAGGCCAACCAAAAAAAAGG A A G G G GAAAAGGAAAGTTCCAAGGTAAAAACAGGGAAAAGAG
 A A A C G G G G G G G G G G A G G G G G A A A A $\mathcal{A} G G G G G A G A G A C A A G G A A$ G G G G A A G A G A G A C C G G C C A A G G A A GAGGGGGGAAAAAA G G C C AACCAAGGAGAGACCCGGGGGAAAAAAAAAGGAAGGAAGGAA GAACCAAGAGAGGAGGATACGAGAGGACCCCAAGCAGGCCGG AGGGCCCCAACCGGAAAAAAAGGGAACCCCGGGAAGAGCCAG A A GAA A A A A G GACCGGAAGGAAGGGAGAGAGAGGGGGAAAAA G GAAGGGGAAAAAAAAAAAACCGGAAGGGGGGAAGAAAAACC $G G C C A A G G C C A G G G A G A G A C A G G G T T G A G G G G C A G G A A A A G G$

G GAAGGAAAAAAGAGAGGAGAAAGAGGGAAGGCCAAACAAGA
 A GAGGAGGACAGAAAAGGAAGGAAAAAAAAGAAAGGAAAACC G G TAGGCAAGGGAAAAAGGAAAACGGCCAACCAGAGAAAGAG GAAAGGAAGAAGGGGAGGAGAGGAGGCCAGAGAAGAAAAGAG A A G G G G G G G GAAAA $A \operatorname{A} G A A A A A A G G C C G G A A G G A G G A G G G G A A$ AAGGAAGGAGCCGGCCGGCCGAAAGAGACCGAAACAAGAACC AAGGAAGGCAGGAAGGGGAAACGGGGGGCAACAGGAAGAGAG A GAAAAAGAGAGGGCAACGGGGAAAAGGAAAAAAGGCAAAAAA A A A A G GAA A GAAAAGGGGGGGGCCTTGGGGAAAAGGGGGGGG AACCAAAAGGAACCAAGGGGCAAACCCCCCAAAAAACCGGGG A A A C A A G G G G A A A A A A G G G GAGCGAGAGCCAGAGAGGGAACC C CAGAAGAGACCAAGAGGGGGGAAAAGGAAACAAAAAAAGAA A A A A A G G A GA G GAGGAAGGGAGAGGGAACCGGCAACGA G GA G GAAGAGGGGAAGAAGGGGCACCAGGGAAGGAAAGAGGCAAAG A G GACCGGAGAAGGGGAGAAGGAAGGGAGGAGGGGGGGAAGG $A G C C C A G G G A G A G A A A A A A G G A C C G G G G A A C C C C A G G$
ATTGGAAAAAAAGAAAAAAAAAACAAAGGGGAAGGAAGAGG A A C A A G G A C G ACGGAGAGGAGGCGGGGAAGACCAACGGAGCA G GACGGGGAGGGGAAGCAGGGGCCAGAAGGGGGGAAGAAGAG G GAGAAAAGGCCGGAAAAAAAAGGCCAAAAAGCAGAACGGAG A G G G G GAGAGAAAAAAAGGGCCAGACGGAACCGGGGAGACAA $A G G G G G A A G A A G C A A A G G A G G A G G G G A A G A G A C A G G A C A A A G$ A C G G G A G G A A A G A G G A A G G G G A C A G G G G G G G G G G G G G G G G G G G GCCAAAGGGGAACTTCAGATTAAAAAAAAAAGGAAAAAAGAG
 AAAAGGGGGGCGGCCCGGAAGGAAAAGGAAGGGGAACAAAGB A A G GAGAACCAAGGAAGGCCGGGGAAGAGGAAAAGGCCAAGG G G A A A A G G G G A A G G G G A A A A G G A A A A A A A A A GAAAA A GAC G G G GACGGAGGGAGGAGAAAGGAGGGAAAAAAGGAGGAAAAAAG A A A A A A G G G G G GAGCC G G C CAAGGCCGGAGCCGGGAAAGAAA G GAAGGGAGGGGAGCCAAGGGGAGAGAAGGAAGGAAAAAGAA GAGGCCATAAAAGGAAGGGGAGGGGACCAAGGGGATAAGGGG G G G G G G G A GAAAAGAAAAAAAAAAGGCAGAGGAAGACAGGAA A A A A A A G G CAA A A A G G G GACGGGGCCGAAGGAAAAAGAACAA $G G A C C C G A G A G A G A C A G A G G G G G A G G A G G G A G G G G G G G A G A A$ G G G G G G A G G G C C G G A G G G A A G G G G G G C C A G G A G A G A G G A A $\mathcal{A} A$ GAAGGAAAAAGGGGAAAAGAAGGACAAGGAAAAGAGGGGGGG A A G G A A G G A A A A A A GAGGGGCCGAAAGAGAAGAACCGAAA G G A A A A A A G G A A A A A A GAGAGGAGAAAGAAAAAGGGAAAACC G $\mathrm{A} A$ $G G A A A A A A A A A A A A G G A A A G A A G G G G G G G G C C A G A G G G A A A G$ A G A G A A A G C G C C A A C C G A G G GACCCACAGGAACCCCGACC G G AAGGGGAGGAAGGGGGAAAAAGAAAAGAAAGGAGAAGAAAGG A A A G A A GCGGAGAAGGGGGGGGAAGGGGAAGGCCAGGAAAAA G G G GCCGGGGAGAATTAAAGAAGAAGGGAAGGAGGGAAAACC A A GAACGAAAGGGACAAACAAAGGAAGGAGGGAGAGGGAGGG C C A A A GAACCCAAAAAGAAGGGGAAAGGAAAAGGAAGGAA GA G GAA A GCCAAGGCCCCGGAGGGGGAAAAGGAAAAGAGGCACC GAAAGAAGGGCAAAGAAGGGAGAGAGCAAGGAAAAACAAGCC CAAGGGGAGAGGAGAAGGGGAGGGGGCCAGAAGAGGAGAGGG
 GAAGGAGAAGAGGAAAAAGGGGGGGAAAGGGGCCGGCGGGGG A A A A C C A G G G A G G G G G G A A G G A G G G G A C G G A A G A G A C A G G G G G GCGGGAGAAGGGGAGTTGAAGGAGGAGAAAGGAGAACAAAA AAAAGGAAAGAAAAAAGAGGAACCCCGGAAGGAAAAGGAGAA C C G G G G A A A T A GAGAACCGGAAGGCCCCGAGAGGAC GAAA G G G G G G A A C A A A A G G A G G CA $A$ G A A A A GAAGGTTAAAAAAGGACAA C C G GAACCAACCAAAAAGCCAAGGAGCCAGGGGGGGAAAAAA AAGGAAAGAAAGCCAAAAAAGGAGCACCCCAGACCCCCAGAA
 CAGAAAGAAGGAGGGGATGGAAAAGGCCAAGGAAAAAAGGAA A A G GAA A G A A GAAAAGAAAGAGGGCCGGAGGAAAGGAGGGAA CAGAAAGAGGAGAGAAGAACCCAACAAGCGAAAACAAAAGAA G GAAAA AAAAGAAAGGGGAAAAGAAGGAGACAAAGAAAAAAA G A A G A A A A G A A A $\mathcal{A} G G G G G G G G A G G A A G G A C A A G G G G G G A A G B$ C C A GAA A GAACCCCGGGGAAAGGAAACAAAGGAGCCGAGGAG AGAGTTGGCCGGAGGAAGAAGGGAGAAAGGAGAAAAGAAAAA AA $A G C C C C G G A A G G G G C C A G G G A A A C G G A A A A G G G G A A A A A G$ AAGGACAAGGAAAAGGAAAAAGGAAAAAAAGGAAGGGGAAGG GAACAGAGGGAACCAAGGAGGAGAAAAAGGAGACAAGAAAAA G GAACCAAGGGGCCGGGGGGGGAAAGGGAGGAAGAAAAGGGG C C G G G A A G G G G GAAAAAGGAAGGAAAAAAAGAGAAGAAGGGGG
 G G G G G G G G A A G GAA A GAAGGAGCAGGAAGAAAGGGGCAAACA G GACGGGAAGGAGAGGAAAAGGGGATAAGGACGAGAGAAAAA G GACAAGGGAACGAGGCAGAAGGGGGCCGAGGACTTCCAGBA A G G GAACAGAGGCCAAAGAAAAGGAAGGAAAAAGAAAGAGAT G G G GCCAGAGCAGGCAACGGAAAACCGAGGAGGAGGAAAAGAG A G A A A TA G A A G G G A C CA GA GAAGGAGAGCAAAGGAGGGAACC AAAGCGGGAGAAAAAAAAAGGACCAAAAGGGAGGGGAAGGCC A A A C G A G G G G A G G G G G G G C A A G G G G G G A A G GA G G A G G G A G A A GAACGAGGCCAAACAGGAGGAAGAGGAAGACCGGAAGAAGAA A A G G A A A A A GCC G G A G GAA $A \operatorname{GGGAAAGAAGAAGGACCGAAGAA}$ A A C G A GAA A G G G A A A G A A G G G GAA A GCCAAAGAG G GAAAAAC G GAGAAGAGACAAATACCGGGGAAGGATCACCACAAGGAAAC GAGAAGAGAAGGAAAAAGAAAAAAGGAAGGGGAAAAAA GAAA G GAA A A GACCAGCACCAGGGAGAAGGAAGGGGAGCAAGGGGG G GAGGGAAAGAAGGAAAGCAGGGGAAAAGGGGAAGAGAAAGA $A A G A G G G G G G G G G G G A G G G A A G A G A G A G A A G G A A A A G A G G G G$ G G A A A A G A A G A G G G A G G G G G A A A A A A G G G A A G G GA G G G A G A T G GAAATGGAAGGAAGGAAAAAAGAGAAGCCAAAAGGGGCCAA AAAGCAACGGAAAAATGAAAGAATAAAAGGAAGAGGGGAAGB G G GAGAAGGGAACGGGTACCAGAGACGGAACCGGGAAAAGAG G GAA $\operatorname{G} A A A \operatorname{AA} G G A A A C G A A A A A C C A A A A G A A C B A A G G G G G G G$ G G GACCGGCAAAAAGGGGAAAAAAAAAAGGGGGGGGAGCCCG G GAGCGGAGAGGGACCAAGGGGAGGGGGAACAGAGGAAAAGG GAAAGGGGGAAGAAAGAAGGAACCAAGGGGAAAAGGTTAAGA C CAACCGAAAAAAAAAGGGAAAGGGGAAAACAAAACGGGGGG G GAAA A A G G G G GAAAAGGAATAGAGGCAAGGGAACAAATTAA CCAGCCGAGGAAAAAAGGAAGGAAAAGGAAAAGGAAAAGAAA G GCCAAAGGAGGAGAACCAAGGAAAACCAAGGGGAAACAGAG A GAACCGGGAGGAAAAAGGGGGAAAAGGGGGGGGGAAGGGGG G G G G G G G G A A G G T A A A G G A A G G G G A A A A C CAA G G G G C C G G A T G G G G A G A C G G G GAACCAACCAAGAAGAAAAACCCAAAGAATT GAGAAAAGAAAAAAAAAAGGAGGGCACAAAAAGAAGAGAGGG G G A G A A G G GAGGAAAAAAACAAAAGGGAAGAAGGCCGGAAGAA G GAA A A A ACA G GAAAACCGACGGGAGAAAGAAGGGGAGAGAA G GAACCAAGGTTGGGAGAAAAACCAGGGAGGGCAAGGAGAAA A A C A A A A A A A G GA G A A A A G GAATACCAACCGGTTGGAAGGCA G G G A G A A A G G A A C C A A GAGGGGGGAAAAAAAAAAAAA GA GAA A G G G A A A A ACAGAAAAAAGAGACCCCCCAACATTGGAAAGAA A A G G A A A A A G C A A G A A A A C C A G A G G G A G G G A G A A A A A A A G G G G GAACCGGAAGGAGAGGAAGGCCAAGGAGAGGAGGGAACCAA GAAGGGCCAAGGGGAAACAACACCGGGGACAAACAAGACAAG G G C C A A G G G G A A G G A A A A G G C C A G G G A G G G G G A G A A G G A A G G G G A A G G G G GAGGA GACAGGAAACCAGTAGACCGGACGGAA GA G G A A G A A A G G G G G G G G G G A A A A A G CA GAAA A A GAAACA A A A G CAAAAAAGACAGGGAAGGAAGGGGGGAAGGCCAGAGCGCAGA

GAGGACGACAAAAGCCGAGGGCAGGACGAGAAAAAGAAAGGA $A G G G A G A G G G A A A G G G A A G G C A A A G A C C A A A A G G G G C C G G A A$ GAGGAAAATTAAAAAACCGGAAAATAGGGAAGCAAAAAGAAA GAAAAAACCAAACAAAAGAAGGAAAAGGAACCCCAAGGAAAA G GACAAAGGACAACAGAAGGCCGGAAAAAAGGCCAAAAGGCC G GAAAAAAGGCCGGCCAAAAGGACAGAAGGGGGAGAGGAGGA A GAGGAAGCATAAGAGGAGGAAAAAAGAACGAAGCAAGACGG $A G C C A G G G C G A G A G G A A G A C A G A G A A A G G A G C G A C C A A C C G G$ A A A A G A GAGGAGAGGCAGAAGAAAAGGAAGGGGAATAAAAAA $C C C C G G C C G G A A G G A A C C C C G G G G A A A A A G G A A A A A A A A A G A$ A GAGATGGAAAAGGAAAAGGGGGGAAAAGGCAGGCCGAAAAA G G G G G G G G GACCGGAAACAGCCGGTAGGGAGGCCAGAAGAAA A A G G G G G G A G A GAGGGGGAAAAAGCCAGAGGAGGAAAAAA AA GAGAAGAAAACAAAGAAAGAAGGGAGGAAAACTTGAAACCGG AAGGAAAAAAAAGGGGCCCCGGATGGAACCCCAAGGGGGCAG G GAA A A C G G GCGCC GGAAGGAGGGGGAAAAGGAAAAAAGAAA G G GAGGGAGAAGGGAGAAAAAGGGAAAGGAATGGGAG
 AGCCAAAACCGACCAAAGGGCAAGAGAAAAAAAAGGGGAAGG G G G A A G G A A A C CAGAGGAGAAGAAGGAAAAAAGGAAGAAAGA GGCCCAGGGGAAAAAACCGAAGACAAAAAGCCGGGAAATTGG A GCGAAGGCAAAGAACGAAACCAAGGGGAACGAAAACCAATT A A A A A CAA GAA GAA GAA GAAAAGAAAAAGGAAAA GGGAAA G G $G G A A G A G G G A A A A G C A G G G A A A A A A G A G G G A A G A G A A A A A G G$ G GCCAAGGGGAAAACACCGGGGACGGGGAGAGGAGAAGAGGA G GCA C G A A A A G G A A G G C A A G G A G G A A G G G G G G T T C A A G A A G G A G G G G GAA $A \operatorname{G} G A G G G A A A G G C C A A G G A G G G G G A A G G G A G A A A$ G G G G G G G G C C A A A A $A \operatorname{GGGGGGC} C A A G G G G G G G A G G A G G B A G G G$ A A G G A A A A G G G GAAAAAGGGGAAAAAACGGGAAAAGAACAGG A A G G A GACAGGGCCGGGGCAGAAGAGGGAGGAAAGGGAAGAG G G A A A G A A A A G G G G G G A G G G A A G G A G G A G G G G A G A A GACCC C AAGGGGAAGGGGCCAAAGAAGAGGAAGAAAGGTTCCGGCCGG G $G \operatorname{G} G A A G G A A G G A A G G G G G G G G G G A A A A G G G G G A A A A G A G A C$ A G G A A G G GAA $A$ A A $\operatorname{A} A \mathrm{G} G A A A A A A A G A G A C A A A A A A T T A G G G A A$ A A G G A A A G A A G G A G A A A A $\mathcal{A} G A A G G G G G G G G G G C C T T G G G G G G$ G GAG $A \operatorname{G} A A G G G G G A A C A G G G C G A C G G A A C C G G G A A A G A A A G G$ A A A A A GACAAAAAC GAGAAAAAGGAATTACAAA GAAC GAACC G G G GAA A GCCGGGAGGGGCCAAGGGAAGAGAAGAAAGAAACC T T G G A G G A A $\mathcal{A} G G G G G G G G G G A G G G A A G G A A C C A A A A A G A A A A$
 $A C A A G G A A G A G G G G A A G C A A G G A A G G A G G G G G G A A A A G G G G A$ GAGAAAGGAGGAAGAACCAAGGGAACGGAGAGCCAGCCAGGG AAGGGGACAGCCAACCAAAAGAGGCCGGGGGGGGCACAAAGA C CAA G GCCAAAAGGAAAAAGCCAAAAGGAAAACC GGGGGGGA
 GAGGAAGGCCGACCGGGGAGGGAGAACCAAGGAGAAAAGGGC A G G G A A A G A G A A A A A G GAAAAAGGGGAGAAGAACCCCC G GAA CAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGGAACCAGGA C C A GAGGGGAGAAGAGAAAAGGAAAAGGGGAAAAAAGGGGGG G GCCAAGGAAGGGGGGGAAAGGAGAGGAAGAAGAGGAAAAAA AA $A \operatorname{GGGAA} A A A A A A A A A C C C A A G G G G G A G G A G A G A A A A G G C C$ A A G G G G GAGGGGAAGAAAGGGGGGAAGGAGGGAAAAAAAA AAA CCGAAAGAAAAAAGCCAGGAAAAGGGACGGAGGAAAAGAAGG AAGACCAGGGGGGAAAGAGGAGAAAAGGGGAAAAGGGGAGAA A A GAGAGGCCAGAACGGGGGGGAGGGGGCCGGAAAGGGAAGG A GAGAGGGGGAAAGGGGGACGAGAAAAAAAAAAAAAAAACAA AAAGAAAGAAGGGGGAACAAAAGGGGGGAAGGCCGAAACCAA AAGGAACCAACCGGGGGGGAAGCCAGGAGGCCAAGAGAAABA $C C G G A G G G A G G G A A G A G G T T G G A A G A A G G A G A G G A C A A A G A A$

AAGGGGCCACAGAAGAGGGAAGGGGGCAGGAAACBAAAGAAG A A A G G G G G A A G A G G A A G G G G A A A G G G G G C A G A A G A GA G A A G G
 G G G GAGGGAGAGACAGGGAGGGAGAAGGCCGGTTGGAAACAA AAAAGAAGGAAAGGGAAGAAGGAAAAGGAAGGCACAAAAAGA A A G G G GA $\operatorname{l}$ A A $C A G A A G G A G G G G G G A G G G G G A G A G C C A G C C G C$ GAGAAAAAAGAAAACAGGAGGGAAGGAAGAAGGGAGAACCAG GAGAAGGGGAGAAGCCAAAAGGAAGAGACAAAAAAAAACABG A A G G A A A G A A G G G G A G G G G G A A G G A G G G A A A G C G A A A G C C A A AAACAAAAAAGGAAGAAGAAAAGGAACCGAAACCAAAAAAGA A A A A A GAACAA AAAGGAAGAAGGGGGAAAAGGAAAAAAAAGG G G A A C C G GCC GAGGACAGACGGGAGGAAAGGGGA GAGAAGAA A GAGAACCAAAGGGAAAAAACCCAAAGAGGGGAACAABAGCC A A A A A A G A G A A A A GAAA A A G G GACACGGGAAAGGGGGGAA G G G GAGACAGGAAAAAAGAAGGGAGGAACAGGAAGGGGAGAAAA A G G GAA A A A GAAAGAAGAAAAAAAAGCAAGGAAAAGGGGGAC G GAGGGACAGCAGGCAACAAAAGGAACCAAAAAAGGGGGGAA G G G G G GAAAACCACGGGAGGGGGGGAAAAACCATAAGGCCAA G G G G G GA CAA $A \operatorname{A}$ GAAGAAAAAGAGGGAGGGGAAAAGGGGAAAG
 AAAAGGGGGGGGAACCAAAAGGAACCAAAAGAACAGAGAAGA A A A A A A A A G GA A A A GAAGAGAAACAAAAAAGGCAAGAAAAAA
 G G A A A A A A G A G A A A A G GAAA $A$ A GAGAGGGATGACCAACCGCCC A A G A A G G G A G G G G G A A A A A A A A G G G G GAGGAAGGCCCCAAAA C CA $A \operatorname{GAA} \mathrm{~A}$ G GAAGGAAAAAGGGAAAGAGAGAGAGAGAAAAAG AAAAAAAACCGGGGCCGGAAAACCAAAAGGCCCCCCAACCBG G G A A A A A A A A G GA G G GACAAAAAAGGAAGGAAAAGGAAGGAA G GCC G GAAAGGGGGGGGGAGAAAAGGAAGAGAAGAAAAAGAA GGGAGGAAGGAGAAAAAAAAAAGGAACCACGAAAGGAGAGAA G G G G G A G G G G A GACAGAAAAAGAGCGAAAAGGAACCGAGGGG A G G GAAAAGGGGCCAAAAGAAAGAAACAAAGGAAAAGGGGAA A A GAAAAA A $A$ A A A A GAGAGAAAGAGAGGGGAGGAGAC AA G GAAA G G A A G A G G G A A A $\mathcal{A} G G G G G G G G G A A G G G G G A G A A A A G A A A A A G$ GAAGGAAGGCAGAAGGAAAACAAAGGAAGAGAAGGACCAAGAG A A G G G G G G G G G G G G G G A G G A G G A T G A G G A C G G G G G G G G G G G G AACCAAAAGGAAGGAAGGAAGGCCGGAAAAGGGGGGAAAAAA A G G GACAACACCGGAAAGGGAAGGAAAAGAAACCGAAGGGAG GAAAATGGAAGGGAAGAAGGAAGGAGGAGGGGGGACCAAAAG
 $G G A A A G A G G G A A A A G G A G G A G G A G G G G G A G G A A C A G C A G G G A$ G A A G G G A A G G A G G G G G G G G G T T A A G G A A A A C C A A G A A A G G G G GAAGGGGAAGGAGGAAGACAAGGAAAAGAAAGAAAGAAAAAT GAATGGCAAGAAAAAAAAAAGGAAAAGGAGGGGGAGAAAAAA
 AAAGGGAAAACCAAGACCAAGGGGAAAAAAGGCCGGAAAAAA GGGAGGAAAGGGAAGGCCACAACCGAAAAGTAGGAAGGAGGA GACAAGAAGGAAAGCACAGGGGAAAAGACCGACCGGAAACGG A A GAAAAGAACAGGAGCAAAGGGGACGGGGGGAAAACCGGGG A G G G A G A G A A A G G G G A A GA $A \operatorname{GGGAGGAAGGAGAATAGAGAGAA}$
 GAAGAGCAAGAGAAAAAGGAAAAAAATAAGGAACGGGAAAAC C C A A C C G G G G C A A A A A A A C CA G A A A A C C G G G G G G A A G A G G C C AGCCAGCAAAACGGGGGGAAAAGGAAAAAAGGGGAAAAGGAG GAGGGAAAAGGAAGAGAGGGCCAAGGAAAAAAGAAAGGCCGG A A G G A A G G A A G GCCAGAAGAAAGGTTGAAAAAAAACGGAGAA C C G GAGAAAAAAAAGGCCAGGAAGGAGGAAAGGGGGAAAACAC G C A A G C G G A A G G G G G G G G A A G G G G G G G G A C G G A A G A A A A A G G $G G A G G A G G G A A A G G G A A G A A G G A A G G A A A G A G A G C A G G G G G G$

GAGCCCAAAAAGCAGAGGAACAAGAAAAGGAGGGAGCAAGGG A A A G G A G A A A G A A A G G A GA $A \operatorname{GGGGGAAGGAAACAAGGCAGGGG}$ AC GAAAGGACGGGGAAAAAAGGACAAGGGGGACAGAAAGGGG T TAGGAAACCGACACCAATAACGAGAGGAGAAAACAGGGGAA $C C G A A G A G A A G G G A G A T T A C C C A A A G G G G G G G G A G G G G G G G A$ CA GACACAACGAACCGAAAACCAACGGAAGCAGGGGAGAGBA C C C C A A G A GAA $A \subset A G A T T G G G G A A A A A A G G G G G G A A G G A G A A$ AACCAAGGCCGAAAGAAGGGAGAAAACAAGCGGGGGGGAGAA GAAACCAAAACCGACAAAGGGGCCGGGGCCGAAGCCGGGGAA $C \subset A A A G A G A A A G C A A A A A A A A A A A G G A A A A G G A A A A G G C C G A$ AAACCGAGAGGGAAAAAACCGGGGGGGGAAAATTAAGGAAAG GAAAGGGAAGAGAGGAAAAGAACCAAGAGGAAGAGGACAAAG G G GAGAGGAGAGGAAAAAAGAGCCTTAAGAGAGAAAGGAAAG AA GAAAGAGAAGAAACACGAGGACCAAAAGAAGGGGGGAGAG AAA A A G G G GAGAGAGAAGGAGAGAACAGCAAGCGAAGGGGGG G GAAACGGAAGGGGCAGGGGCCGAGAACGGCCCCAAGAAAAA GAGGGGTAACGGTTACGGCCAAGGGGGGGAGGAAAGA
A G GAAAGAAAAAACCGGGGGAGGAGGAGAAGGGGAGAAAG GAAGGAAAAGAACCGGGAGAAGAAGAAAAAAGGGAAAACAGG GAAA $A \operatorname{A} A A A G G A G G A C A G A G G G G A A A G G G G A A C G A A G G A A G A G$ GGCAGAGAGAAGCAAGGGGGAGCCCAGGAAGAGGAACCAAAC A A A G A A T T GAA A G GAA $A \operatorname{AGGGAAAAAAGGACGGGGGGCAGGAA}$
 A A A TAGGAAGGGAAAAAAAGAGAAGGAGAGAGCCAAGGAC GA AGGGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGGAAAA GAAAGAGAAGGAAAGGGGAGAAGGGGGGAAAGGGGGCCBAAA
 A G G G A G G G G G A A A G G G A A G A G A G G A A G G G G G G G A A G G A G G C $G$ G G GA G G C A A A G A GAGGAAAGGAGAAGAAGGAAAAGAACAGAG GAGGAACCAGAAAGCAAAAAGGAAAAGGGGAGAGCCGGGGGG C C G GAA A G G G A A A A A A G G A A A A G G G G G G G G A A G A G A A A G A G G $C C A A A A G G A G A G T T G G G A G G A G C A A G A A G G G G G G G G G G G G C C$ G GAGGGCAGGGGGGGGAAAGCCGGAAGAACAAGGGGAGAAAA $G G A A G G G A G G C A A G C C G G G A A A A G G G G G G G G G A A A A G A A A G G$ $G G C C C C A G A A C A G G A A A G G A A A G G C C A A G G A G C C G G A A G G G G$ A G G G G GAAAA A A $A \operatorname{AGA} \operatorname{A} A \mathrm{~A}$ GAAAGCCAGGGGGACGGAGAAAAAA
 AAAGGAAACCCCAAGGAAGGAAGGGGGGAAGGAGCAAAGGGG C CAC G GAA A ACCGGGAAGGGACGGAGAAGAGGAGGAGAGCCC A GAGAGAGACAACCAAAAAAGGGGAAACAAAGAGAAGGGGAG AAAACGGGAAAAGAGGGAAGAAGGAAGGACGAGAAGACCCGG
 G G G GAAAGCCGGAGAGAGGACCAACCGGCCGAAGAGGAACGG A GAGAGAACCGGAGGGACAGGGAGGGAAACAGGGCCGGGGGA G GAGAAA $A \operatorname{A} A G G G A A G G G A A G A A C C G G G G G G G G A G G A G G G G G G$ A A G G G G G A A A A A A A A A A A A A A A A A A GAGCAAGAC G GA G G G G G $G G A A G A A C A A A A A A A C G A A A G A G A A C G G A A A A A A G G A G A G G G$ $C \subset A A G G G G A G A A C C G A A A G G A A G G G A G A G A G G G G A A A G G G G G$ A G G G G G G G A T A A G GACAGGAAGGACCAAGAAGGGCAGACCAG
 $A G G G C C G A G G G G A G G G C C A G C C G G A A G G A A G G G A C C C C G G G G$ G G G G GAACAAAAGGAAAGGGAAGGAGAGAAAGAAGGAGAGAA G G G A A A A GCAAAAAGAGGGGAAAGGAAGGAAAGAGAAA GAAA G GAAAAGGAGAAGGGAACGGGGGGGAGGGGAGAAAAAAGGGG A GAA A GAA A A GAAGGGAGCCAAGGCCAAAAAAGGAAAACAAA G GCCGGAGAGGGAAAGAGCAGGAAGAAAAGAGAAGGCCAAAT C CAAAGAAGGGGGGGAGAAAGAAGAGAAGGAAAACCGGAAGAG G GAGCACCAAAAAAAAGAAGAAAAGCGGCAGGAAAAGGAACC A GAACAGGAAGGAAGAACGGGGAAAAGGACCCGAGCGAGGCC

AAAAGGACCAGGAGAAAGAGGGAGGGCCCCAAAAAAGGGGGG $C C G G A A A A A A G G A A G A A A G G G G G G C C A A G G A G A G G G G A G G G A$ TA GAAAAACAAAGGGGAAAAAAGGAAGACCGGAAAAGGGGGG AAAGAAGACCGAAACCAAAAACAAAAAAGGGGGGGGGGAAGA G GAGGGCACCAAGAGGAAAAAAAAAACAAGGGGGGGGGAAAA GGCCAACAAAAGGAAAAAAAGGCCAGGGAAAAAAGAAACAAA A A G G A A A G GA G G G G C A A C G G G A A G A G G GA G GA G G GAC CA G G G AAGAGGAAGACCACGACCCGAAAAGAGGGACACCAAAGAAAA GAGAAAAAAGGAGGGGAACCCCAAGAGGAAGGAGGAAAAAGG G GAAGGGGGGGGAGAAGATTGGGGGGAAAAAAAAAGAAAACC GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGAGACACAAAA ACGGAAGGAAAAGGGGAAAAAACCGGGGAAAAAACCGGACGG $G G A A C A A G G G A A A G G G A A G G G G A G G G G G A C A A G A A A A A G G A A$ G G G G G G G G G GAGGAAACGGGAAAAGCGGGGCCAGAACAAAAA $C \subset A A G G A C C C G G A G G A A C G G A G G G A G G A A G C C A G G G A A G G G G$ GAAGCAGGAGGGGCAGGGGGAAGAGGAACCAAGGGGCCGGGG GGCCAACAAAGGGGCCAAGGGGAATTAAACAACAAAAAAAGG G GAAGGCGCCAGGACACCACAAGAAAGGAAGGGGAAAACAAC C CAACAAAGGAAAAGGGAAGGGAAAAGGAGGGGAAACCAAAC AAAGCCAGAAGAACAAGGACAAGGAAGGCCGGAAGAAAAAAG GAGGACGGAACCAGGGAAGACCGGGGAGGCAGAAAACCTAAA A A A A A A G G G GAGAGAAAGAAGAGGAAGGAAAAGGAACAAAAA G G G GACAACCAGAAGGAAGGAAGGGGAAAAAGAGAAGAAGAC G G A A A A A G A A G A G G G G A A A A A A C C G G G G G G T T A A A A A A G G C C A GAA A G A GCCCCAAAACCGGAAGGGGGGAAAAAAAAAAGGGG AAAAAAAAGGGGAAGGAAGGAAAAGGAACCGGAAGGGAAAGG A A A A A A A A G G G G G G G G G G A A A A A A A A G GAA $A \operatorname{GGGGGGGAAAA}$ G G G GAAGGCCAAAACCAACCAACCCCGGCCAAGGAAAAAAGG G G A A A A G G A ACCCCAAAAAAGGGGAAAAAAAAAAAAAAGGGG AAAATTAAAACCGGGGAAAACCGGGGGGGGGGCCCCGGAAAA A A A A G G A A A A G G G G G G A A G G G G A A G G G G A A C C A A A A C CAAAA AAGGAAGGAAGGGGCCAAAAAAGGAAGGGGAAGGAAGGGGAA AACCAAAAAAAAGGAAGGAAGGAAGGAACCAAAAGAAAAAAA C C G G C C A A C C G G A A G G G G G G G G G G G G A A G G A A C C G G A A T T G G A A A A G G G G G G G G A A G G A A A A A A A G GAAAA A G G G G GAAAAAC $\mathcal{A} G$ $G G A A A A T T G G G G A A G G G G C X A A C C C C G G A A C C G B A A G G A A G B$ G G G G A A A A G G G G G G G G G G A A A A G G G G G G G G A A G G A A A A G G A A G G G G G GCCAAGGGGAAAAAAGGGGCCAAGGAAAAAAGGGGAA AAAAGGAAAATTGGAACCAAGGAACCAAGGGGAAAACCAAGB



 A A A A A A A A G G G G G GAA $A \operatorname{AGGGGGAAGGAACCAAAAAAAAAAGG}$
 $G G A A A A T T A A G G A A G G A A G G G G C C G G G G C C A A G G G G T T G G A A$ TA G GAGAGAGCAACAGGAGGAAGAAGAACAGAGGAGGACCAG G GAGAAGGAAGAGGCAAGGAAACCGACCAAAAAAAAAAACCC $C C G G A A G G G G A A G G G G T T G A A A A A A A G G G G C C G G A G C A G G A G$ G GAACGAAGGAGGGAGAAACGAAAGAGGAGACAAAGAACGBA AAAAAAGAGGGACCGAGGAAGGAAAGAGAAAAGAGGGAAAGA G G G GCCGGAAAACCGAGGCCGGGGGGAACCAGGGGAGGAAGA G G G GCAA $\operatorname{CA} A A G G G A G A G A G G A G A C A A G G A A A C C A G G G G A A A G$ GAACGGAACCGGCCCCAGAGGGGAGGAGCCACCAAGGGACAG A GAGAACCAAAAGGAAAAGGAAGGGGGGCAGAGGAGGAGGAG GAGAGATTGGAGCGGAGAAGGACGGACAAGAGCAGAAGAAGG AAAAGGCCAAGGAAGGAACGGGGGAGGAGGAAAAGGGGAAAG GAGGGGGAAACCAAAAAAGGGGAAAAAAAAGGGGGGAAAGAG G GAGAAGGGAAAAACCGGGGGAAAGGGGGGGGGGAAAAAGAA

A G G G G GACAAGGGGAACAAAAGGGGGAAGGGAAAAGGGCACA A G A A A A A A G G A A A A A A $\mathcal{A} G G G A A G G G G G G G G A A A A A A A A C C G G$ AAAAGGCCGGCCGGGGAAAAGGTTAGGGGGGGAAGGCCAGAG GAAAAGCCGGGAGACCCCAGGACCGGGGAAAAAGGGAAAAAA G G G GCCGGAAAAGGGGGGGAGGGGCCGAAAGAGAAAAAGAAA GACACAGGGAAGGGCAAAGGGGGGGGAAAAAAGGCCGAAACC ATAGAGAAGAGAGAGGCCGGAAAAGAAGCCCAGAACGGGGCC G G G GAGGACCGGGAAGGAAAAAAAAAAACCAAAACCAAGBGA
 $C \subset A A G G A A A A G G G G A A G G A A A A A A A A G G G G C A A A G A A A A A A A$ $C \subset G G G G A A A G G A G A C C G G G A G G G A A G C A C G G A G A G A G A A G A A$ A A G G G GAA $A \operatorname{GGG} G A A A A A A G A A A G G G A C A G A A G A A G A A A G G A A$ A A G G A A A A A A A A G G G G G G G A G GCCAAAACAAAAAGGGGAA G G CCGGCAGACCGAAGGAAAGGAAGGGGGGAATTGGGGCAAAAA A ACCAAGACAGAAAAATAAAAAAACCAAGGGGAAGGAAAAGA GACCAAGGAAAGGGAAAGGGGGCCCCGGCCGGAAAAGAAAGA GAACGAACCACAAAAGGGCCCCAAGGCCGGAAACAGA
GAAGGAGAGACCAGAGAAAGGAGGAGGAGGGGACAGGGAGG G G GAGGGGAAAAGGGGCCGGCCAGAGGGGAAGGAAGAAAAGG ACAACAGAAAGGGGAGACAAAGAGACAGAGGGGGAAGACAAG GAGAAGAAGAGCGGAAGGAGAAAAAAGGAAAAGGAAAACAAC A A A A G A A G A A A G G G G G G G G A G G G G G G A C G G A G G G C A G A A G A A
 GAGGGGAAGGAAAAGAAAGGGCAGAACCAGGGAAAGAAAACC A A C C A A G G C A A A G A A A G G G GAGGGAGGGGGAAGAAAGGAACC

 A A G G G A G G A A A A A A A A A A CAGGGGAAGGGGGGAGCAGAAAAG AACCAGGGAGGACAAGAACGGAAAGGGGACATAACCAAAACC GAAGAAGAAGAGAGAGGGAAAGGACAGGAAGGGAAGGGAGAA
 GAGGCCGGGAGAAAAAGGGGGGAAAACAGGCCCAAAAAAAAA $C \subset G C A C G G A A A A G G A G G G A A A C G G G G A A C C A A A A G A A A A G G G$ G G A A G G A G A A G GAA $A \operatorname{GCC} C A G C C G G G G A G A G A A G G G G A G G A G G$ A A A G A A G G G G A GA $A \operatorname{GGGA} A A G A A G G A G A A G G G G A A A A C A G C A A$ G GTTAGAAAAAAGGCACAAAAAAAAGAGGAGAGAGGAGAAGAG GAAGGAAAAGGGCAGGAAGAACAAAAGAGGAAAAAGGGGGAG G GAGGGGGAAAGAAAGGATTAGCCAACGGGAAGAAACAGAAA GAGGGGCCGGGAGAAGGACCGACGAGGAGGCCGCCAAGAAA G G G G A A A G G G G G A C C C G G G G G G A G G G G A A A C A A A G G G A G G G A G G G G A A G G G G A G GAGGGAGAACAGGGAGAGGGGGAGAA G GAA G G G G A A A A G G G A A C A GCC G GAA A GCCGGAAAAGGAGAGAAAA G GAAGGGGAAAGGGAGGGGGAAGGGGGGGGACAAGGGGGAGG $A G G G G G A A G G G G A G G G A A A A A G G G A G A G G A C A G A G A C A A A G G$ $G G A A A G T T G A A G C C G G G A G A A A G G G G G G C C G A A G G A G A A A A A$ G G G GAACAAGGGAAAACAAAAAAAGAGGAAAAGACCGGAGAA C C G GCC C G G G A A A A G G G G G G A A G G A A G G G A G G C C C C A A A A C C C C G G G G G G GAGGGAGGAAGGAAGAAAAAGGAAA GACGGCAAC A G G GCCGGGGCCACGGGGGGTAAACGAGGGAAGGAGGGACAA G G A G A A A G A G G G A A C A G A G GAGGGGGAGAAAAAACCGGA GAA GAGGCCGAGGGAGGCCGGAAAGAGACGGCAGAACGAAAAAAA CCGGCCAACCAACCAGGATAAAAGCCGAGAGAGAAAGGCCGG G G G G G G G G A T A A A C A A A $\mathcal{A} G G G G G G G G G G G G G G G G A A A A A G T$ T G G A A A A G A A A A A A G G G G G A A GAAAGGCAAAGAGGA GAAAACC GAAGGAAAAAAAGGCCGGAAAAGAAAAAGGGAGGGAGAAAAA $A G A A G G A G G G C C G G G G G G G G G G A A G G C C A G A C G G G A A G G G G A$
 A A G A A G G G A A T T A A C C G G C A G G A GAGAACCGGGGGGATAC G G CACAAAAAGAAAGGAGAAGGAAGAGAGGAGAAGGAAAAAAGA

A G G GAA $A \operatorname{GGGGGACGGAGAAAAAGAGGGAGGGAAGAGACCGG}$
 AAGGGGGGAAGGAAGGCCAAAACCCCAAGGAAAAGGGAAAGG AACCGGCAAGGGCCGAAGGACCGGGGAGGGAAGGCCGGGGAG G G GAGAAGGGACCCGGAGACAAGGGGGAGGGGGGCAAGAAAC ACAACGGGGGAAACGGGGGGAGGGAAGGGGCAGAAAGGGGGG A A A A G G A A G GAACCGGCCGGGGGGGGAAAAGGAAAAAAAACC CCGGAAAAAAAAGGGGGGAAAAAAGGAAGGAAAAAAGGAGAA A A A A A A G G A A A A A A G G G G G G A A A A $\mathcal{A} G G G G G G G G G G G C C G G G G$ G G G G G G A A G G G GAAAAGGGGGGCCGGGGAAGGCCGGCCAAAA G GAAAA $A \operatorname{A} A A A A A G G A A G G G G G G G G A A A A G G G G G G C C G G G G G G$ $C \subset A A G G A A G G A A A A G G C C G G A A G G C C G G G G C C G G A A G G A A G G$ G G G G A A A A A A G G G GAACCAAAAAAAAAACCAAGGCCGGACAA A A G G G GAAAAAAAAAACCGGGGAAAAAAAAGGGGGGAACCAA AAAAGGGGAAAAGGAACCTTAAAAAAGGGGGGGGAAAAAAAA G G G GAA AGAAAAAAAAGGCCAAAAGAGGAACGAAGAGAAAAC
 A A A A G G G G G G G G G A G A A A A G G G A A A G GACCC CAAA G GA G G G G G AAAAAGAGGAAGGAAAGATTGGAGAGAAAAGAAAGGAGAAGAG G GAGGAACAAAGCCGAAAAAGAAGACACAGACAAGGAAGAGA G GAGCAAAGGAAAGGGGGGGGAGAAACCGGAAAGGAGGAGAA A A G GAAAA AAAAAGAAAAAAGGACAAGGGGGGGGAACACAGG G G A G A A A A A A A GAGTAAAGGGAAAATAAACAACCGGCAAA G G A G G GAACCGGAAGAGAAAAGAGAACGAGGGAAGGGGAACCTT AAGAAAGGAAGGGAAGAAGGAAAAGGAGCAGACCGAAGAAGG A G G GCCGGAAAAAGGGGGCCGGGAGGGAAGGGAAAGAAAGAA AAAGAAAGGGCAGGAAGGGGAAAGCAGGGGAAGGGGAAAAAG G G G A A A G A A A G GAGGGAAGGGAAGAAGAGAAGAGAGCAAAAC GAAGAGCCAAGGGGAAGGGGGGGGAAAAAAAAAAGGGAAAAG G G GAAGGGGGCCAAGGCCGGGAAGGGAAGGAGAAAAAAGAAA C C G GCAAAAAAGGAGAAAGGAAGGAGAGAGAAAAGGGGAGGG G GAAAAGAGAAGAGACAGAGCCAAGGCCGGCAAAGGCCACGG GAA A G A A G A G G G G GAA $A \operatorname{AGGAA} G A A G G A C A G A G A G G G G G A G G G$ GAGGTTAGGGGAGAGGGGAAAACCCAAAGGAGAAAACCAGAA G G G G G A G A A A A A A A A A G G G GAA A GAGAGGGAGAAGGAGAAAA G G G GAAAAGGAAAACCGGGGAAAAAAAAGGGGCCGGGGAAAA G GAAAACCAAGGAAGGAAGGAAAAGGCCAAGGAAGGAACAAA
 AA $A \operatorname{GGGAA} C \subset G G A A A A C C A A G G G G A A G G G G G G A A A A A A A A G G$
 A A GGGGAAAAAAAACCAAGGGGAAAAAAAAGGCCCCTTAAGG AACCAAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAAGAAAAA A A A A A A A A G G G G G G G G A A A A A A A A G GAAGGAAAAG GAATTCC C C G G G G A A A A C C C C G GCC G G G G G G A A C C G GAAAAAA A G G G A A
 A A G G G G A A A A A A $\mathcal{A} G G G G G A A A A G G G G G G A A G G G G C C A A G G G G$
 A A G GAAAACCAAGGAAGGAAGGGGCCAACCAAGGGGGGAGAA G GAA $A \operatorname{GAAAAAAAGGGGCCAAAAAAGGGGAACCGGGGGGAAGA}$ T TAACCAAAAAAGGAAAAGGCAGAAAGGCCGGAAAGGGCCAG G G GAGAAGCCCCAAGGAAGGGACCGGACAAAAGGACAAACAG $G G A A A G A G C C G A A G G A G G G G G G G A C C G G G G G G A A G G G G A A A A$ G G G G G A G A A A G A C C G G A A C C G G G G G G G A G A G G C A G G A G A G A A $G G C C A A G G A A A A A A G G A A G G G G G G G G A G G G A A G G A G G G G G G G$ G G A A T TAA $A \operatorname{GAACCGGGAAGACAGAGACAGGGGGGAAAGGGG}$ A A A A A GCCGGAAAAGGACGGAAGGGAGAAACCAAGBAAACAA GAAGGGAGGGAAGGGGGAGGCCGGCCGGGAGGGGAGAAAAAG C A G GAACAAAAACCAGAGAGAAGGCCAAAGGGGGBAAGGGGG AAAAAAAGAGGGCCGGGAAGGGGGGGGGGGGGAAAGGAGGGA

A G G G GA $A G G G G A A A A A G G A A C A A G G G G G C C A A A G A A A G G A G A$ G GAACCGGGATTCCAAAAGGGGAAAAGGAGGGAGGAGAGAAG G G GAAAGGAACCCAGACAGGGGAAGGGAGCAAAGAAGGAGAAG GAAGAAGGAGAGGGCCAAGGAAGGAAGGGGAAAAGGGGGGAA A A A A A GACAAGAAGCATTCCAGGCGAAAAAGGGGAAAAGAAA A G G A C C A A A A G GA G A G GAGAGAGAAACCAAGGAAGAAAGGBA G G G G A A G G A A G G G G G G G A G A G A A A A G G GAAA A G G GA GAAAAA AGGGGGAGGAAAAAGGCCGAGGAGGGAAAAAGAAGAGAAGAC A G G G G A C G A A G G A A A A G G A G A G G G G G A A G G A G G G G A G G G G G G G GAAGGGGAAAAAGGGACGGACAAAGGAGGCCGAGCAGGGAG
 G G G G G GCCAGAGGAGAAGAGGGGGCCCCGGGGGGGAAAGAAA AAAAGGCAAACCGGAAAACCAGGGCCGGGGCAGGAGAAAAGG GAGGGGGAAAGGACACACGAGAGAAAAAACAAGGAGAAACAG AACCAAAGGAGAGGAAAAAGACAACAGGGGAAAAAAGGGGGA G GAGGACCAAGAGGGGAGGGGGCCGACAGAAGGAAGCCAAAA A A A A G G G G G A G G A A C C A G G G A A $\mathcal{A} G G G G G G G A A G G A G A$
G G G A A G G G G G G A G A C G G G G A A G G G G G G G G G G A G A G G A G A A $G$
 G G G G G G G G A A A A C C C C A A G A G G G G G G A A C C G G G G G G G G A A G G AGAACCAGGGAAAGAAGGAAGAAAGGAGAACCGGAACAGGGG G G G GAA A GAAGGAACCGGCCAGGGGGAAGAAAGGGGAGAAAG
 CACCAAAAAAAAGGGGGGGGAAGGTTAGGAAGGGGGAGTAAG G G A A A A G G CAA $A$ A $A \operatorname{GGGAAGGAGAAGAAAAAAAACAGAAGAGG}$ G GAAAAACGGGAGAGAAAGAAGGAAGCCAGGGGGGGGGAAGG G GAGCAAAGAAAAGAAAAACACGGAGGGGAGAGAAAAAAGAC AC G A A GA G GAAAAGAGCCGGCAAGAAGGGGAAGGGGAAGAAA G G G G A A A A A A A TAA A GAGAAGGATGAGGGGCCGGAGGGACAG A A GAAGGGAAGGGGGGGGGAGAGAGGAAAAAGAAGAACAGAG G G G G A A G G G G G G G A G A G G G G G G A A A GAA $A \operatorname{GAAAGGAAAACAAA}$ ACGGGAACGAAGAGAGAGGGCCAAAAGAAAGAAGAGACAGGG A G G A G A G A A G A A A A G G A G G G A A G G A G A G G G G G A A G G A T A C G G G G G G G G G G G G A A A A C A G A A A G G G G G GAAA $A$ A A GAG GAA A A A A G C C G G A A G A G G A A G G G A G G G A A G G G A A TA G G G G T T G A A A A A G G G GAGGGGAAAGACCGGAAGGGAAAAAGGGGAGAACACAGAGG AAAAGGAAAAGGAACCAAGAGGGACACCGGGGAAAACAAAGG A GAAGCGGGGAAGAGAAAGGAGAGAGGAGATAGGCCGGAAAAA A G A G G A G G A G G A A G A A G GCCCCGGAAAGGGGGAAA GA GAA GA G G GACAGGAACCGGGAGAGGAATAAGACAAGGGAAAGAAAAC GAGAGAAGGGGGGGAAAAGGGAAGAAAAGGAAAAAAGGAAAA G G A A A A C C G G G G G G G G G G G G A A A A $\mathcal{A} G G G A A A A A G G G G A A G G G G$ G G G G G G G G A A G G A A A A G G G GAAAAAA A G CA A A A A G G G GAAAA G GAA A G G GAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A A C C A A A A G G C C A A G G G A C C G G G G G A$
 G G G G A A A A A GAGAGGAGAAGAAGGGGAGCAAGGGGAAA GAAA G G A CAA A A G GAAGGAAAAGAAAGGAAGGAAGAGGGGGAAAAA A A A A G G A A A A A C A T C C G G G G G G A A GAGAGAAAAAAA AA GAAA AAAAGGAGCAACCAAAAGGAAAGGAAGGGGAAAGGAGAGGAG CAGAAGAGAGAAAACCAGGAGGCCCAAAGGGGGAAGAAGAAG CAAAAAAAGACCAGGGAAAAGAAAAAGGAGAAGACCGGAGGA C C A A G A G A G G G G A A A G G G A C G G G G G A G G G G A A C A A G G A G G A A G G G G G G G G G G G A A A A A A A A A A G G C C A G GAGGGGAGGGAAAAAC G GAGGAGAAAAGGGAAAAAGAGAGGAAGGGAGGGAGAAGACC AACCGGGGGGAAAAAGGGAAGGCCAAAAAGAGGGAGGACAAA $A G A G A G C G G G A A G G A G A A A A A A G G C C G A G G G A A G A G G G G G G G$ G G T T A C G A A A GAGGAAGGAAACCCAAACAAGGGGGAAAGAAA A G G G A A A G A G A A A A A A G G A A GAGGGGAAAGCAGACAAG GAAA GGAGGACCCGAAGAGGAAGAAGGGCCAAGACCAGAGAGCCGG

A A G A A A A G A G G A A A A A G GCCGGAGCAGAAGAGACAACCCAAA GAAGAGCAAACCGAACAAGGAGCCGACCGGGGAAGEAGAGGG GAAGGGCCCCAAGGCAGAAGAAGGGAGGGGAGAAAAAAGGAG G GAAAGAAGAAACCAAGAGAGGGGGGCCGGGGAGGGCCAAGG GAAGGAAGAAGGGGAGAAAAGGAGAGCCGAAGAAAGAGAGAG A A G G G GAACCAAGGAAGAGGGGAAAGAAGGAAAAAAAAGACA GAAAAAAAAAGAATAGAGAACCCCGAAGGGGGGGGGGGGGGA AAAAGGAAAAAGCGGGACAGGAGAAGAAGACAGCGAGGAAAG $G G C A A G A A C A A A A G A A G G G A A A G G G G A A G G A A T T A A A G A A C A$ AAGGGAAGAGGGAAAAAAAAGGGGGGACAAAGACGAAAGAAA A A G G G GAA A GAACCGGAACCAAGAGGAGGGAATTAAACACAA AACCAAAAGGAAGAGAGGAACCCCAAAGAAGGGAACTTGGGG A GAA $A \operatorname{G}$ GAAAAGAAAGGAACCAAAGGAAGAGAAAAGAAAAACC G G G A A A G G G G A A G G G G A A G G C C G G G G G GAAGGAAAAAAACCC AACCAAAAAAGGAAGGAAAAAAAACCAAGGAAAAAACCCCAA A A G GAA $A \operatorname{A} A A G G G G G G C C A A A A A A G G G G G G C C G G G G A G A G G G$ GAGAGGGAAGAACCAAGGCCAGAGGACCGGAAAACCCAACAA G GCCGGAAAAGAAGAAGAACGGGGAGAAACAAAAGATAAAGG G G G G G G G A A A G G G GCC G G G A A A A A GAG GAGAACCGAAA G G C C
 GGGGCCAAAAAGAAGGAGAGGAAAGAAAGAAAGGAACCCCAA G G G G A A A A G G G GCA A G $\mathrm{A} A \mathrm{G} A A A A A A A A A G A G G G G C A C C G A G G A C$ GAAGCCAGAGGACCCAGGGAGAGAAGGGGGAAGGAAAAGGGG A A GAGAGGAGACGAAAGGAACAAGAAAAAAGGGGAGAAAA GA
 CAAAGACCGGAACCCCCCAACCGGAAGGGGTTAAGGCCGGGG G GAAACGGGAGGAAGGAGGGCAGAGGGAAAGGAGAAGAGAAG A G G G A A A A G G G G G G T T A A A A C C G G A A A G G G A G A A G A G G GA G A A A A A A A GAAGACAACCGGAAGGGGGGACAAAAGGAGGATTGA G G GAGGAGAACAAAAAAAGAGGAGCACAAGCCAAGGGGGGCA
 AA G G G GAAGACAATCAGAAGAGGAGGAGGGGGAAAGAGAAGA AACCGGGGGAAAAAAAGAAAGAGAGAGGAAAGAGGAGAGGAG A A A A G GAA A G A A A A A A GAAAGGGGCCAAAACCAAAACAAAAA
 G GCCAAAAAAGGGGAAAAATGGGGAAGGAGAAGGAAAAGGGG
 $C C T T G G A A A A A A A A A A A A G G G G G G A A G G G G A A G G A A G G G G G G$ G GCCGGGGAAGGCCAACCGGAAAAAAAAAAGGGGGGCCGGGG A A G G A A C CA A G G G G C C G GCC G G C C G GCC G G G G G G G G G A G A A G $G G C C G A A A A G A G A A A A G G A A A A A A G A G G G G A A A A A A G A A A G B$ G G G G G G A A G G A A A C A G A A G G G G G G G G C C G G A A G G A A G G A A G G AAAGAACAGGAAAGGAAGGGGAGAGGAACCAAGAAGGAAACC A ACAACAAGAAGGGGGAAAAAGGGCCGGGGAAAACAGAAAAA G GCCAAGAAAGGGAAAACACGGGGCCGGCCAAGGAAAGAGAA C C C A $\mathrm{C} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAGGAAGGAAAAAAGGAAAAAGAG G GAAGGGGGGAAAAAAGGGAAGAAGGAGGGAAAAAAAAAAGAG
 G G G GAAAAGAGGCAAGAAGAAAAGGACCAGGAGGAGAACCAG GGCCAAGGAAAACAAGACAGGAAAAAAAGGAGAAGGCAAAAA A A GACCAGGAGGAGGGGGGGGGGAAAAAAGGAGGGGGGACAA
 G GAAAAACCCAACCGGAAGGAAGGCCGAAATAAAGGAAAAAA AAACGGGGAAGACACGCAGACACCGGACAAAAGGAAAGGGGG A A GAGGAGAAAACCCCAGCCAGGGAAGGAAGGGGGGCCGGGG GGAACCCCAAAGAGAAAAAAAAAAGGAACCCCAGAAGGAAAA G GAACCGGAAGAAGGGGGACGGAAGGAAACGGGGGGGGAAAA G G A G G G G G G G G G G G C A A A C A A A A G A A G G G A A A G G A G G G G G A A $G G G A A G C C C C G G C C G G C C G G A G G G G G A A A G A G G A A A A A A G A G$

ACGGGGAAGGAACCGGAAAAAACCCCGAGGGAGGCCCCAAAA A A A A G GCA $\mathrm{A} A \mathrm{~A} A \subset \subset A G G A A G G G G G G G A A G G G G A A A A C C A G B A$ G G G G G G G G G G G G A A G G G A A A A A G GAGGAGGGAA G G GAAAA A G G
 AA $\operatorname{A} G A A G A G A G A G G C C G G G A G G G A A G A A A A G A G G G G A A A A G A$
 G G G G G G G G G G A A A A G G A A A CAGGGAAGGAGACAAGAAACAAG $A G C C A G A G G A A G G G C C A A G G G G A A G G A A A C A G G A A G A G A G G G$
 AGGGAAAAGACCCCACGGCCCAACGGAGAACAAGGAAGATGG G GAGAGAGAAAGGAAAAAAAAAGGGAAGATGGGGGAGGGGAG A A A A A A A A G GCAG GACAAGAGGGGCAGGAAGGAAAACCAA G G A G G G A A A G A C A A A G GAGGGAGGACAGGGCCAAGAGGGAAGAA CAAAGACCACACAACCAACACCAGGAAGAAAAGAAAGGGAAA A A G G G GCCAGGGAACCAGAGAGGAGGAAAAGGGGGGCCAAAA $C \subset G G G G A G G A C C A C A G A A G G A A G G A A C C A A C C C A G G A A A A G G$ GAGGAGGAGGAAGGCCGGAAAAGGGGAAAAAACAAGG
GACGGCCAGAAGGAGCGGAGGGGCCAACCGGGGGGAAAAGG AACAGGACAGAAGACCGGGGGGGGAAAAGGAAAAAAAAGGGG G GCCGGAAAAGACAGGAAAAAGGGAAGGAAGGAGCCAA GA GA A GAGAGAAAAGGACGGAAAGGAGAAGAAGGGGAAGGAAAAAA G GAGAGGGGGAGAACAAGAGAAGACCAAAGAAGGGGCCAGAC ACAGGAACGGAGATGGGAAGAAAAGAAGGGGGGGACAGACAA G G G G G A A G A A G GAA A G G G G A G G A A A A A A A A A A G GCC G A C A G A $A G G A G A G G G G G G G G G G G G G G G G G G G G G G G G A A G G G G A G A G A A$ GAGGGGGGAGGGGGAGGGAAAAGAGGAAAAGGGAGGGGGGGA G GAGAGAAAAGGAAAAGGGGGGCCGGAACCGGCAAGAGAAAG AC G G G G A A A A A A A A A A A A A A G G G G A A A A C C C C G G G G G G G G G G G G A A G GAAAACCGGGGGGGGAACCCCGGGGGGAAGGGAAAGG $G G C C A A G G G G G G A A G G C C A A A A G G G G C C A A G G A A A A A A G G A A$ A A G G G G G G A A G G G G A A A A $\mathcal{A} G G G A A A G A A C C G G G A A A A A A A A$ AACCAAAAAAAAGGAAAAAAGGAAAAAAGGAAAAGGGGAAGA A A C C G G G G G GAA $A \operatorname{GAAAAAAAGGAACCGGGGGGAACCGGGGGG}$ G G G G A A G G G G G GAAAACCGGAAGGAAGGAAAAAACCCCAGAA G G A A G GCC $C$ G G G G G G G G G G A A G G G G G G A A A A $\mathcal{A} G G G G G A A C C G G$ G G A A A A G G A A G G G G C C G G G G A A G G C C C C A A G G C C G G C C G G G G C CAAAAAAGGGGAAAAGGAACCGGAAAAGGAAAAGGGGGGGG $C \subset A A A A G G A A A A G G G G A A G G G G A A A A G G G G A A A A A A G G G G C C$ G G A A G G G G G G C C G G G G A A A A G G G G A A G G G G G G C C A A G G A A A A G G G G A A A A A A A A G G G G G GAA A G G GAAAAAAAAAAA A GAA G GAA A A G G GAGGGGAACCGGGGAGAAAAAGGAGGAGAAGGCCACAG
 A A G GAGAAGGCCGGGGGGAAGGGGGGACGAAAAACCGACAAG CAGGAAGGAAGAGGGGAAAACAAAGGGGAGCACACCCAGAAA C C G A A A G GCA $\mathcal{C} G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A A$ A A G G G A G A G A A A A G G A G G G G G G G G G G C C A A C G A T G A A C G A G G G G GAGGAGAAGGAAGGAACCAGAAAGCCGAGAAAAAAGAAAG G GAAGGCCGGGAGGAGGGAGAAAAGGGGCCGGAAGGAAAAGG AACACCAAGGAGAGAGGGATAAAGAGGAATAGAAAACAAAAA AAAACGAAACGAGGAAAAGGAAACAAAAAGGGAAAGGGAAGG GAGGAGAGGGCAGAGGCAACGAAAGGAGAACGATACGAAGGG AAAAGAGGGAGGAAGGAGGAACAGAGAGAAAGAGCCAGAACA G G A A A G G G A A C C A A A G A G G A A G G A A G G G A A GA G A C C T TA A G A AGACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAGGAGG A A C C G G G G G G A A A GAA A G G C G A G A A A G G G A G A GACAA G G G G A GGCCCAAGAACAGAGGAGGGAAGGAAGGCCGGAGGGCAGGGG

 CAGGGAAAACAAGAAGGGAGAGGGAAGAAAGGGAAGAGAGAA

A GAGAACCAGGGAGAGAGAGGGAGGGGAGGGAAGAGCCAAAG A G G G A C G G G G A A G G G G A GACGGAAAAAAGGGGGGAAAACCCC $G G A A G G A A G G C C A A G G A A C C A A A C A G A G G A G A A G A A C A C C A A$ $C \subset A A C C A G G G G G A A G A C A G A C A G G G G A A C C A A A A A A G G G B A A$ G G G GAA A A A A A GACAGAGACGGGAAAGGGGACAAGGCC G GAA G G G G G G C A A G A A A A A C G A A A G G G G A G A A G G A C A A A G G G G G G G G GAGGGAAGGAACCGGAAGACGCCAGAGCAGAAGGGGAAGAG G GAGAGGGAAGGAAGGGGGAAGTAGAAAAAGGAGGGGAAAAG GAAGAAAAGGCCGGAAGACAGAAGTTAAGAAAAGGGAAGGTT AAACAAGAGGACAGAGCAGGGAGAAGCAAGAAAAAAAAAAGG A G G GAAAGAGAAAAAACCAGAAAAGGAAAGGAAAAAGAGGAA
 A A G G G G G G A A A A T T C C A A G G G G G G G G G G A A G G A G A G G G G A C C GAAGAGAAAGAGTAAAAAAGGGAAAGGGAAAAAGGGAACCAC G GAAAGAAAACCGAAGAAGGGAGAGAAACGGGCCGGGGAAGA $C \subset A A A A A A G G G A A A A G A A A G C C A A G G A G A G C C A A A G G G A G G A$
 G G A A A A G G G A G A G A G G G G G G A G A G A CAGGAGGGAA GAAAG G G GACAAGGGGGCCGGGGGGAAGGGGAAGGCAAGAAGGGGAAGA A A G G A G G G A A A G G G A G A A A G C C A GAAGGGAGAAGGA GAA A A A GAAGAAAAGGGGAAAACAAGGAACAGGAAGAAAGAGGGAGAA AA $A \operatorname{GAA} A G A A A G C A G A A T G G A G A A G G A G A G A A G G A A G A A A G G$ A ACCAAGAGGGGCCGGAGGGGGAAGGAGCCGGGGCCGGGGAC C C A A A A G G G G G A G G A G A G G G A G A A A A G G G A GAGGAAAAA A A G
 A GAGAAGGGGAGGGGGGCGGAGAGAAAGCAAAGGAACCAAGA A G G G GACAAAAGAA $A \operatorname{A} A \operatorname{A} A A A A A G G G A G G G A A G G A G G A A C G A G G$ GAACAAAAAGGGAAACAGAGGGGGAGCCAAAAGGGGGGAGAG G G G GCCAAGGAGAAAGAAGGCCGAAAGGAGGAGAAAAAAAAA AAAAAGCCGGGGGGACAAGAGACAAAGGGATTAAAAAAGGAA A A G G A A $\mathcal{A} G G G A G G G G G G G G G A A A A A G C C G G G G A A G A A A G G A A$ GAAAAAAAGAAGGAAAGGCCGGTTAAAAAAAAGGAAGGAAAA A A G GAGGAAAAAGAGGGAAAGGAGGAGAGGCCAACAGGGGCA A G G GCCGGCCAAGAAAGAGGCCAAGAAGAGAAAAGGAGGGGG GACAAAGGCCGGGGAAGGGGAAAAGGAAGAGAGGAAAGAAAG G G G G G G G A A A A A G A G G C A A A A C A GAGGGGGGGAGCCGAAAAC A A GAGGAGAAGAGGCCGGGGGGGAGGGGAAAACAGGAAAGAC AAAGAAGAAGGGAGAGACGGGAAGAGGAGGCAGGGACABAAA A A A A A G A C G G A A A A G G A A GGGGCCCCCCCCAAACAGGAAAA G A A G G G G G G G G A A A C G G G G A A GAAAAAAAA AAAA A G CA G G G GAA G G G G G G G A A G A A GAAGAGAAAAAGGGAACCCCGAAAGGACAA C C A A A G GAAAAAGAGGGGAAAAGAGAAAAAGGACCCGGAAAA GAGGGGCCAAAGCAAGGGAAAGAAAGAACCGGAAGGCAGGGG A G A A G G G G A C A A G A G G G G G C A T A G A A G G A A TAAA $A$ A G G G G A A G G G A G A G G G G G G T T G A G G G G G G A G A A A C G A A $\mathcal{A} A G G A G A G A G G$
 GAATCCAACCAAAGAAGGGGAAGAGGTTGGAAAACAAAGGGG AACCGGGGAACCCAGAGGAGGAACGGAAAAGGGGAAAAAAAA AAAACCAAAAAAAACCAAGGGAGAAACCGAGGGGAAGGAAAAA C C G A C CA GCCAAAGAGAAGAGAAAGAGGGAGGGGGAAGAACAC GAAACAAGAGAAGAGGGGCCGGCCGGGGGGAAAACAGGAAGG A GAGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGGACAAGAG A A A C G A G A G G A A G G G G A A C A A A A A GAAA A G G G G GAAA A A A A A G G G GAAGGAAGGAAGGGGCCAAAAAAGGAAGGAACCCCAAAA
 CAAAAAGAGGAAGACAAAGAAAGGAGAGGGGGAAGGGGAAGAG G G G GAAGGGGAACCGGAAAAGGCCCCAACCAAAAGGAAGAAA A A G G A A G G A A G G G G G G G GAAC C G GAAAAAAACC G GAA G G G G C C AAAAGGAAAAGGAACCGGAAAAGGGGGGAAGGGGGGCCAGAA
 A A A A A A A A G GCCCC C $C$ G $\mathcal{C} G G G A A G G G G G G G G A A G G C C G A A A A A$ G G G G G G A A G G G G G G G G G G C C A A A A C C A A G GAA G G G G G GA G C C AAACGGGAAACCGGATGGAAAAGGGGCCGGGGGGGACCACAG A A GAGAGGCAGGACGGGAGAGGGGAGGGAGAGCGGGACAGAA A G GAGGAACAAGACGGAGGGGGGGCCGAAAGAAAGGAGACAA CACCGGAAGGGGAAAAAACCAAGGAAGGAAGGGGAAAAAAAA AAAAAAAAGGAAGACAAAGGGGGGCCAGCAGGGGAGAAACAA GAGAAGGGGGAAAAAGAACCAAGGAGGGGGAAAAAAGBAGCG $C C G G A A A A G G A A G G A G G A G G G G G G A A A A G A G A G G G A G G A A A C$ AAGGGAAAAAGAAGAAAGAAAAACAAACAAAACCGGAGAGAG C C G A A A G G A G A G G G A A A A A A G GAC G G G GAGGGGGGGAAAAAA C CAAAAGGCCAACAAAAGCAAAACAACAGGAACAGGGAAGAG A A G G A A T T A GAGCACACAACGGGGGGAACCGGGGGGACAA GA $C \subset A A A A G G G G A A A A A A G G G G G G A A C C G G A A C C A A A A G A G A G G$ G GAAAGGGAGGAAAAAAAAAGACCGAGGAACCGAAACCAGCC $A G T T A A G G A A G G G G G A A G G A G G A A G A G G G G A A G A A G A$
$A G A G A G G A A A A A A G G G G G G G G A A G G G G A A A G G G A G A A G G G G$ G G G G G G G GCCCCAAAAAAGAAGAGGGAGGAGGGGATAAAAAA C C G G G G G G A A A A A G G G G A C C A G A G G G A A C G G G A G G G A A C A A G GACAGGCCAAAAGGGGGAGGAAGGGAAAGAACAGACGAGGGG AACCGGGGAAAAGGAAGGAAGGCCGGAAGGGGGGAAGAAAAA
 A A G G G G G G A A C C G G A A G GAAAAAG $A$ AAAGGAAAAGGCCGAAA G G G G G G G G G G G GAAC CAAAAAAAGGGGCCAAAATAGAACAC G GAA G G GAAAGGGGGAGACCGAAGAAAAAAAAGAGGAAGGCCAGAC AAAGGGGGGAGAAGAACAAAGAGAAAGGAAGGAGAAAAAAAA G GCCCGAAGGAAAAGGGGGGGGGGAAGGAACCGAGGAAAAGG G G G G G A A G G GAAGGCCAAACAGACGGCCAACCAAGGGAAAGG $A A C C G A G G A A A A G G G A A A G G G G A A G G C C G G A A A A G G G A A A A G$ GGCCAAAGAAAAGAGGACAACCAGGGAAGGAAGAAAAGAGGA G G G G G G GAAAAAGGGGGGGAAGGGGAAAAGGGGAGAAAGGGG A A A A C CAATTAACCGGATCCGGGGAAAAAAAACAGGAAGGGG A A A G A C A A A A A G A A GAGGGGAGCACCGGAAGGTTCCGBAAAA $A G C C A A G A G A A C A G A G A G G A G G A G C C G A A A G G A A C C G A A A G G$ G G G G A A G G A A G G A A A G G G G GCCGGAAAAGAAAGACAAAAAA G A A G GACCCTAGGAAAGGGGAAACCGAGGCATAGGGGGGAAGAGG G GAAAAAA A $A \operatorname{A} G \operatorname{A} A G G G A G G G G G G A G A A G A G A A G G A A G G A G A G$ ACGGGGCCGGGGAGGAAAGGGGCAAGAGAGAAGGGGAAAAAG G GAA A G G GAGAGCAGGCCAGAGAACCACGGGAGGAAAAAAAA A G G GCCGGAAGGGGGACCAACCAGGGGAAAAACCAACAAAGG G G G G A A G G A G C A G G G G C A A T G G G G G A G G C A A C G A G A A G A G A A AAGGAACCAACAGAAGCCGGGGAGAAAAGAGAGACAAGAACC GACCAAAAGAAAAGCAAAAAGAGGGGAAGGAAGGAAGGAGAG A A G G G G A A A G A A G A A A G G G G A G A A G G G G G A GAAA A G G G A A A A ACAGAAGAAAAGGGGAACGGAAGAAAAAAAGACCAAAAAAAG G GAGGACCGACAAGAGAAGAGAGGAAGAGAGATTGGACAAGG C C G A A G A A A G GAGGAAATGAGGCCGGAGAACAAGGAAAGGGA GAGGGACCGAAAGGAAAGCCCCAAAAGGGGAAGGGGAGAAGA G G A A A A G A A A G A G GCCGGCCAAGGCCAAAAGGCCAAAAGGGG G GAAGAGGCCGGAGAGGGAAGAGAGAGAGACCGGAAAGAGAG GAAGAGAGAAGGAAAAGAGGAGAAAAAAAAAGGGGGAGAAAA $A G C C A T G G G G G G A A A C G A A G A G A A A G G A G A A A G G A G C C A G B A$ A GAGAAAAGGGGAAAAGGGGGGGAAAGGAAGGCCAAGGAACC A A G G A A A A G G A A G GCCAAGGAAGGCCGGAAAAGGGGAAGGCC G G G G G G G G A A A A A A G G A GAGAACC GAACGGCCGGCGGGGGCA
 $A C G A G G G A G A A G G A G G C C A A A A A A G G G A G G A A A A G G G G A G G G$ AAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGGAACC

G G G G G GAA A GAAGGCAAGAAGGCAGGGGGGGGGACCGEAAAG GAAGGAGAGGAAAAAGGAACAGACGGAAGGGGACAGGGCCGG $G G A A A A C C G G A G G A A A A G A A G A G G A A A A G G A G G A G A C C A G G G$ G GAAAAAGGACCGGAGGGAAGGGGGGCCGGAACCAAGAAAAA AAAAAACCGGAAGGAGACCCGGCACCCAACAAGGAGGGAGAA G G A A A C A A G A A A G G A A G G G G G G C C G G C C A G G G G G C C G G G A G G A G G G G G G G G G G G A A GAC C A T A G A A G GCCAAGGGGGGGAAA G G C G G G G GAA $A \operatorname{A} A A C C A A G G G A G G G G G G C C G G A A G G A G G G A A A A$ G GAGAGAAAGGGGGGGAAAAAAGAAAAACAAGAAAAAGAAGB AAAAAAGGAGGGAAAAACGGAGAAAAGAGGAAGAAAGGAGAA GAAAGGACGAGGAGAAGGAGGGAGAGAAAAAACCGGAAAGGG
 G GAAAGGAAGGAAAAAGGCAACGAACACGGGGAGGGGGAAGAG G GAAAAGGGGCCAGGGAAAGCCCCAGAAAAAACCAAAAAGGA GAGGAAGGGGAGCAGAAGAGGAACAGAAAGGGAAGGGGAGAG G GAACCAGAAAAAAAAGGGGAAAAGGAAGAAGAAAAGAAGAG GAGGGGGAACGAGGACGGGGAAAACAAAGGAAAGGAAAGGAG G G GAAAGGGAAAGGCCAAAAAGAAGGAAAAAAAA GACAGGEG $G G A A G G A A G A G G G A G G C A G A A A A G C C G G G A G G A A G G G G A A G G$ G GAG G A GAAGCCAAAGGGAGGGGAGGAGAAAGAGGAAAAAAA G GAACCAAAGGAAACCAAGGGGAAAACAGAGGGGGAGGAGCC $C \subset A A C C A A G G A C G G C C G G A T G G G G A G G G G G A A A A G G A G A G A A$ G G GAGGAGAGAGGGGAGAGAAAAAAAGAAGAAGGGGAAGGAA G G G G G A G A G A A GAA A G G G G GACCCCCGGGGGAGGAAAA GAA G AA $A G A A G G G G A A A A G A A A A A A G A G G G A A A A A G A A C C G G G G A A$ G GAGGGCCAGGGGGAGGGGAAGAAAGAAGACAAGAATAAGAC G G G G G G GAAACCAGAAGGGGTTAAAGAAGGAAAAAAGACCAG GAACAGAGAGGGGGAAAACCAAGGAGAGAACCGGAAAAGAGA G GAA A A A GAGGACCAAAAAGCCAAAAAAAACAAAAAGAAGBA GGGACCAAAAGGGGGGAAAACCAACAAAACGAGAGGAAAAGAA GA $\operatorname{G} G A A \operatorname{A} G A A G G G G A A A A G G A A G G G G A G A G A G A G A G G G A A A C$ $C C G G A A A A A A G G G G A A A A A A G G A A A A A C A A G G G G G A A A G G A A$ GACACAAACAAAAAAAAGGAAGAAGAAAGGAAGAAAGGGGGG A G A A A A A A A A G GAGGGAAACCAAAGAGAGAACGGAAGGAAGG $G G C C A A A A G G A A C C A A A A A A C A A G A A A A A A A A A A A A G G C A G G$ G G A G G GAA $A \operatorname{GGG} \operatorname{G} A A A A A A G G A A A A A G G A A A G A A G A C A G G G G G$ G GAAGAGGAACCAACCGGAAAAGGGGAAAAAACGAAAGAAAA G GAGAAAACAGGAAAAAGGGAAAGTAAAAGGGGGAGCCACAAA A GAAAAGGGGCAGGACAGGAAAGAAAAAGGAAGGGGAAAGAG G G GA $\operatorname{G} A A A A A A A G A G A A G G G G G A G G A C G G A A G G A G A G G G G G G G$ $G G G A G G G G C G G G A A C A A A G G G G G G A A A A A A G A A G G B A A C C G G$ G G G G A GAA A G G G C G GAGAAGAAAGGGAGAGCCAGAAGGAGAA
 T T G G G G A A A A A A G G A A G G G G G G C C A A G G A A G G A A A A C CAA G G C C G GAAAGCAGAAAGAAAAAAAAAGGGGGGAAGGAGACAGCC GATAGGAAAGAAAAGGGAAAGGGAGGAAGGAAAAAACAAGAA GACCCCAGAAGGAAAACCAACCAAGGAGGGAAGGGCCAAAAA G GAA $A \operatorname{GAA} \operatorname{A} G C \subset T A A G G G G G A A G G G G G A G G G A G A G G A A G G G G$ GAGGAAGGAGAAAGGGGGAAGGAAGGCAAAGGCCGGAAAGGG GACAAGGGAAAACGCACCGGAAGGACAAGACCGAGGGGGGGG G G G G G GAAAACCGGCCAAGGGGGGGGAAAAAAGAAAGAAAAG A G GGCACCAAGAGAAGCCAAAACACCCCAAGAGGTTAAAA GG A A G A A A G A A A A A G A G G G A A A G G A A A A G G G G C C G G G GAA G G A A CAAAGGGGAAAACCGGGCAAGAGAGGGCAAAGGGAGAAAAGA A A A A G G G G G G A A A G T T G A G G A GACAGAAGGCCCCCCGGCCGG A G A A G A A G A GC GCA GAA G GATTACCCCAGAAGCCGCAAAGBA
 A G T A A A G G G G G A G G G A A A G GAA A A A A A G C C G G G G C C G G G A A A A GAAAAAAGGAAAGAAGGAAGGAAGGGGAAGGAAGGCCGGAAA
$C C G G A A G G C C G G A A G G G G C C G G G G T T G G C C G G A A C C G G A A G G$ A A A A A A A A A A A A A A G G G G A A A A A A A A A A A A A A A A A A G G G G A A T TAAAAAAG AAAGGAAGGCCAAAAGGGGAAGGAGAAAAAGAA G GAAAAAAGAAGAGAGCCAGGGGAGGAAAAGGGGGAGAAGGA G GAGAAAAAAAGAATACCAAGGGGAGGAAAGGGAGAAAAAGAA G G T T G G A A A G A A A A C G G G C C C C G G G G G G A G G G G G A G A A A G G A GAGGGGAGGGAAAAAGGGGGGGGAAAAAAGAGAGBAGAAAAA
 G GAAGGCCGAGGAAGGAACCAAAAGGAAAAAACCGGAAAAAA G GAATTGGTTAAAAAAAAAAAAAAGGAAGGCGGAGGCATTAA

 GACCAAAAAAGGCCAAGGCAACGGGGAAAAGGCACCAGCABAA A A A A G G G G GAA $A \operatorname{GAAAAGGGGGGGAAGAGAGAGGAAGAAAACC}$ AAGGGGAGAAACAAGGAAAAAAACAGAAAAGGAAAAGCGGAA G GAGACAGAAGGGGGGAAGAGGAAGGGGCAAGAAAAGAAAAA A A G G G GACAAGGAAAGGGCCCCCCAAAAGAAAAAGGG
GCAGAGGGGCCCAAAAACCGGAAGGCAACGAACCCCACCGG AAGGAAAAAAAGAAAACCGGGGGGAAAACAGAAGAAGAAAAG A G G A A T A A A A A G G G A A G G A A A G A A G G G G G G A A A A G A C C A A A A A GAGAGGGGGGGAGGGAGGGGGAAGAAAGAGGGGGAAAGAAA CAAGGGAAAAGGAGGAGAATAGAGCCAGGGAAACAAGCACAG A A C C A C A A A A A A A A C CA A GAAGGAAGGGGAGGCCA GAACAGG $G G A A A A A A A G G G A A G G G G G G G G A A A A G G C C G G G G A A G G A G A A$ A A G G G G G G A A G G G GCCAAAGGCAGAGGAGAAAGGGAAAAGAA A A G GAA A GCCAAGGGGGGAAGAAACCAGAAGGAGAAACCCGG G GAAAAAAACGGCCGGAAAAGAAAAAAACCGAGGAGAAAAAA
 A A A A A A GACCCCA $C$ C G G G GAGAGGAAGAAGGGAAAAAAAGGGG CAAGGGGAGAAAACAAGAGGGGAAGGGGAAGGGGAAGGAAGA C C A G G G G A C C T T G G GACACAAAGGCCAAGGGGAAG GAGAAG G GGCCGACCGGAAGAGGTTGAAGAGAGAAAACCCGAAGGAAGG
 A G G G A A A A C C G A G G A G G A A G GAGGGGGGAAGGAAAAAACC G G

 A A G G G A GAGGAGGGAAGGAAAACAAGAGGGGGGGGAAAAAAG G GAAGGCCAGAGAAGCGAAAAAGAGAGAAAAGAAGGAGAAAA T T TAA A G G A A A A A A A G A GAGAGGGAAGAAGAGGGAACAAA GA A GAAAAGGGGCCGAGGAAAAAACCCACCAAAAAA GAA GAATT A A C A A T G G GCAACCGGGGGGGAGAGGGAAAGAGAAGAAAA GA GAGGGAAGGGAAAGAAAGAAGGAGGGGGAAGGGAAAABACAA G GAAAGCAGGGAGAAGAGGGAAGGAAAAAGAAGGGAGAAAAA
 A A G G A G A G G G A G G G A C G A G G G G A G G G A A A G C A A A A G C C C G A G A A A A A A $\operatorname{A} A G G G G G G G G G G G C G G G A A G G G G A C C G C C C G A A G A A$ A GAACCCACAAGAGAGCCGAAAGAACCAAAGAGAAAAAGGGG G GAGTAAGAGAAAGAGCCAAGGAAGAGAGGAAAGGGGAGATT GAGAAAAAAGAAGAGAAAAAAAAGAGGAAGAGAATTCAAAAG G G G G A A A A A A G ACCAAAAAAGGAAGAAACCAAAAAAGGAA GA G G A A G G G A A A A G G G G G C A G GACAGCCGAAAAAAACAGGAGAG G G G GAGACGAAGAACCGGAAAAGGAAAACCCAAAACGGAGGG G G A A C C G A A A C C G G G G G G G G G A G G G G A A A GAGC GAAAA A A G A GAGAGGGAAACAAAGAGGGAACAGAGAGTTGGGAAAAAGGCC AA $A G A A A A G A A G A A C C A A G A G G G G G A G G A A G G A A A G C A G A A A$ A G G G G G G A G G C C A A A G A A G A G G A A GAGGGAGAGGG GAAAAAA G GAA $\operatorname{G} G A A G G C A A A G G C A A A A A A A A A G A A A A A A G G A A G G G G C$ G G G G G GAACCGAAAGAAAGAAGAAATAAGAGGAGAAGAAAAA $A G C C A G G G G A G G G G A G A A G G G G G G G G G G A A G G A A A A A C G G G G$

C CAAAAGGAAGAGAGGAAGGAAAACAGGCAAGGAAAAAAACC CAA $A$ A A GAACAGGGAAGGCCACAGAGGAAGGGAAGGGGGAGA G G A A A A A A A A AC G A A GAAAGGGAAGGAGCCCCAAAAGGCAAA A A A A A A A A G GAAAGGGAACCAGAAGGAGCCAAGGCAAAAGGG A GAAGGGAAAAGCCCCGGGGGACCAAACAAACACAGAACCTA
 A GACAAAAGGAACAGGGGAGGAAGACGGGGGGAAGGGAAAAA AAGGGGGGAAGGAAAAAACCGGCCAAAAAGGGAGGGGAATAA C C G G A A A A C C A G GAGGGGAAGGAGAAAGCCAAA GAAGGAAAA CAGAAAGATTGGAAGGGAAGACGGAAAGAAAGAGGAACGGGA GAAA A G G G A A G GAAAGAGAGGGACCAGAGGGAAAGGGGAAGA G GAACGAGACAGAAGGGAAAAAAGAGGAGGGAAAAAGGAAAA C C G A A G G G A A A GAAAA $A \operatorname{A} G A A G G A A A C G A G A G A G A A A A A A A G A$ G G G GAAGAAACCGAAAGGAAGAAGAAAAGGGGAAAAGAGAAA A GAAAACCAGAAGGAAGAAAAAGGGGGACCAAGGGGGGCAAA A A G G G G G G G G G G G G G G A A G GAA A GA GAGGGAA G G GA G G C C C C $A \subset A G G G G G G G A A A G A A G G G G A A G G G A G G G A G A A A G G G G A G A A$ G G G G A A G G A A G G G CA $A$ A A A A A G G G G G G G G C C G G G G G G A G A G A C G G C C A G G A G G A GAC GATTAAGAAATTGGGAGGGAAGAGACA G A G A G A A G G G G C C G A G G A A A GA $\mathcal{A} G G \operatorname{GAA} G G A A G G A A A A A A A G A C$ $C \subset A G A G A C G G A A G G G G A A G A A A G G C C G G A A A A A A A A G G A G G A$ G G G G GCGAGAACAAGGGGGGCCAAGCAAAGAGAGAGAGAGAG
 A ACCAGAAGGGGGAAAAAATAGGGAACCAAAGGGGGAAAAAC C G G G G GCCAAAAACAAAAAAGGGGAACAAGAAAAGGGGAAAC TACAGAACCCGGGGAACCGGAAGGCCAGGAGGGGAGGGAACA A A A A A A A GCAACAGGGGGGAGGAAGAGGGAGAAAACGAAAAG G G GCAGACGAAAACGGGAAGGAAAAAAGGAAACCAGCCAAAA C C G G G GA G A GAACCAAAACCAGGGAAAGGAAGGAGGGGGGGG AACCGACAAAGGGAAAGGGAAAGGAAAAAGCCAAGGAACCGG CACCAAAGAGGGGGGGAAAGGAAGGGAGGACCGACCGGAAAA

 GACCAAGGAAGGGGGGGGAAAGGAGGAGGAAAGGAACCAAAA G GCCGGAAAAGGAAAAAAGAGGACCCGGAGGGAGAAGAAAAG
 $C \subset G G G G C C A C G G G G G A G A A A A A C G A G A G G G A A G G G G A A G G G G$ A G G G G A G A G GA $\operatorname{A} G A G G G A A A A G A G G G G A A A G A G G C A G A A A G A$ GAAGCAAGAGAGAAAGAAAGAAGGGAGGAGAAGGGGACAGAA GAAACCAGAAAAAAGGAAAAAAGAGGGGAGAAGGBAGGCCBG TAATCCGGGACCGGGGAAAAGGAAGGAAATAGGGGGAGAGAG A A A G G G G G A A A G G G G G G GCCGGAAAAAAGACC GAA GA G G G A A A G GAAGGGGGGAGAGAAAGCGGGAAAAGGCCGAAGGAGGAAAG AAAAGGAAAAAACCGGAAAGGAAAGGAGGGAGAGAAAAAAAG $A G C C G G G G A A G A G A A G G G A G A A A G A G A G G G A C G A A A G G A G A A$
 A A A G A A G G A G G G A A C CAC $\mathcal{A} G G G G A A A A G G A A G G C C A C G G G G A A$ A G GA $\operatorname{G} A \mathrm{~A}$ A A A G GCCAAAAAGGAGGAAAGGAAAGAAAAAGGGG $A C C C G A A G A C A G G A G G A G G G G G G G A A C C G G C A G A G A G G C C A G$ A A G G A A A G G G C A A C A G A A A A GAGGAAAAAAGGAACCAAGGCC C C G GAACCAAAAAAGGAAGGGAAAAAGGAAGGGGGAGGAGAA A G GACAAGAAGGCCGGAAAAGGAGGAGGAGAAGAGGGGAAAAG ACAGAGGGGGGAGCACAAAAAGGGAGAAGGAAGAACGGACGG $C C G G A T A A A A G A C A C C G G A A G A G A A A G G A A A G G G C C A T G G G G$ G G G G G A A GAGAGGGAAAGACAAAGCCAGGAAAAATTAAAAAA G GAAGGAAAGAGGAAAAAGAAAAGGAGAAAAAGGAACCCCCC A A GACCGAAAAAGGAAGAGGAAAAAAAAGGGACCAGGGAAAA G G G G GACAAAGAAAAAAAAGAGACCCCAGGCGGGGGAAAA GA G G G G A A A GAGGAACAGAAAACAAGGAGGCCAAAGAAGAAAAA

ACGAGAGGGGGGAAGGGGAAAAGGAAAAAAGGAAGGAAAAGA A A G GAAAAAGGAACAAAAAGAAAGCAAAGAGAAGGAGGACAB $G G A A A G A C A A A G G A G A A G C A G A A A G G G G G G G G C C A G A C A G G A$ A G GA $\operatorname{GA} A \mathrm{~A} C A A \operatorname{A} A A A A A A G A A A G G A A G A G G A A A C C C G G G G G G$ GATTGAGGGGCCAGAGAAAACCGGGGAAAAGGGGGGGGGGGG G GCCGGGGAAAAAAAAGAGGAACGGGAAAAGAAGGAGGAGAA G G G G A G A A G G G G G G G G A A G G A A G G A A A A C CAAAAA TAACAAC CAAAAACCGAGGAAGGGGAAGGTAAGAGGGAAGGAGAGGAAAG ACGAGGAAAAAGAGCCAAAGGAAAGGGGGAAGGGGAGGCCGG AGGGCCCCGGGAAGGGAAAAACGGAAAAAAAAGAGGGAAACC G GAGGGAGGAAGGAGGGGAGAAAAGGGAGGAGAAAACAAAAA G G G GA $\operatorname{G} A \mathrm{~A} A A A A A A A G G A A G G A G G G A G A G G G G G A A G G G A B A A A$
 G G G G A A G G A A C C G G G G G G G G A A A A A A C C A A A A G G G G G G T T G G G GAACCAAAAAACCGGGGCCCCGGAAAAGGAAGGAAGAAGGA G G GAGGGGCCAAGGGGAAAATTGGAAGGGAGAAGAACAGAAA AAAAGGGGAAAAGGAGCACCGACAAAGAAGACAACGC
CAAAGGGAAGAAACCGGGGGGAGGGAAAAAAGAGAAABAAA G GAAGACCGGAAAAAAGGAGAGGAAGAAGGAAACAGAAGGGG G G G A G G A G G A G G A A A A T T A A A A A G A G GAGGAAG GAAAAAAAA CAGAAAGGGGGAGAATCCCCAGGGAAGGCCCAGGGAAGGGCA G G G G G A A A C C GACCAAGGAACAAAAAGAGGAGGAGAAACAGA $A G C C A G A A T A A G G G G G G G G G A A G A A G A G G G G G A A G G A G A G G G$ A GAGGGAAGCAAAAAACAGGGAGGGGAAAGGAGGAAGGAGAA G G G G G G G G A G G G G G A A A A A A G G C C A A A A G GA GA A A G G G C A G G AAACGAAGGGAAGGACAAGAGAAACCGGAAAAAAAAGGGGAC A ATTAAAGAAAAAAAAAAAGGGGAAGGGAAAAAAGGAAAACC A A C C A A A A A A A A A A A A G GAA A GAACCAAGGAAGGAAG GAAAA A A G GCCGGGGCCAAGGGGCCAAAAAAAAGGGGCCAAAAGGAA AAAAAAAAGGAAGGAAAAAAGGGGGGCCGGAGGAAGGGAAAC A A A G G A G G A A A A G A G G A A A A G A G G A A A A G GAAAAA A A A A A A G AAACAGGAGAGAGAACCCAGAAAGAAGGAAAAAAGGGGAAAC
 A A A A A A G G A A C C G G A A G G A A A A G G G G G G A A A A G G A A A A A A G G G G G G G G G G C C G G G G G G A A A A A A $A \operatorname{GCC} C G G A A G G G G A A G G A G A A$
 G GAGGGGGAGCACCAGGACAGGGAGGGGAAAAAAGGAAGAGG G GAAAA AA GACCAAAAAAGGAAAAAGAGGGAGAGGGGAAAAA GCGGC G G G G G A A G G G A A A CATAAAGGAGGGAGGAACAGAGAA G GCA GAACAAAAAAGGAACCGACAGGAAAGGGTTAAAAGAAA AAAAGAGAGAAAGACAGAAAGGGGGGAAAGGACAGGGACACA
 ACAGGGGAGGGGGGAACGCCCCAAGGGGAAGGAAAAGGAAAA

 GAAGACAGAGAGGGGGAACAAGCCCCGGAAAAGGGGAAGGCC A A G G A G A A A A A A G A C CAC G G G G G A A G A A A A G G G G G G G G G G A A A A G G A A A A G G G G G A A G G A G G G A A CA $A C A C G A A G A G G A G A G A G$ AAA A A GAAA A A A G GAAAAGGGGGGAGCCAGAAAA GGGGGGGG GAAGGGGGGAGGCCAAAGAGCACAAAAACAAGGGGGAAGGAA A G GA $\operatorname{A} G C \subset A A A G G G A G G A A A C C A C G A G G G G A A G G G G A C C C A G$ A GAAAAGGAAAAAGAGAAAAAAGGAGAAAAAACCGGGGAGCC C C A A A C GCCCAAGGGAGAGGAAAGAAGAAAAAAGGGAAGGGG GGCCAAAAAGAAAGGGAACCCCAGGGAAACAGAGGGGGGAAA $C \subset A A A C A G G G A A A A A A G G G G A A A G A G A A A G A A A G A T C A G A G G$ A GAGGAAGACGAGGGGCCAGAGGGCCAGGGGGAAGGAAAAGG G GAGAGGAGAGGGGGGAAGGACGGCCAAGGAGGGAAGGAAGA A GA $A \operatorname{A} G A \operatorname{A} A A G G G G A G G A A A G A A A A A A G A A G G A A G G G G G A A A$ GAAAGAGAGAAGGGGGAAGGAGGAGACCAGGAGAGGAGGGGG

GAGACCGGGGGGGAAGGAAGGGCCGAAAAGGGGAAAAGAGAG GACC G G A A GAAAACCCGGAAGGAAGGGGGGCCAACCAAGGAG A A G G G GAAAAGAGGGAACGAAGGGGGGGCCAAGGAAACAAAA AAGAAACAACGAAAAGGGGGCCCCGGCAAAAAGGACAAAAAG A G GA $\operatorname{A} A \mathrm{~A} G A \mathrm{~A} G \mathrm{~A} A \mathrm{~A} A A A A A G G G G A A A G A A G A A G G A A G G A G A G$ ACGAAGGGAAAGAGAGAAGGAAAGAGGGGGAAAAAAAAAAGG G GACGGGAAAAAAAGGAAAGACAGAGCCGAGAAAGBAAAAAA $G G A A A A A C G G A A G G A A A G A C A A A G A G G G A G G G A G A G A A A A A A$ G G G GAGAAAAAAACCCGGACGAGAGGGGGAAAGGGGAGAGAG GAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACCGGGGBAAA A A G GCCGGGGAAGGAAAAAAGGGGGGCCCCAAAGGGGGCAAA A A G G GAGGCCAAGGAAAAGGAAAAGGGGAGGGGGAAGGAGAA GAAGCACCAAAGGGGGGGAAAAGGGGCCCCAAGAGAAGATAG
 G G G C A G G G G G A A G A G A A GAAAA A A G GAAGGGAG GTTAGTTGG G GAGGGGAGGAAGGGGGGAGGGAAAGGGTTGAAAGGAAAGGG GC $C G G G G G A C A G A A A A G G A G G G A G G G G G A A G G G A A A A A A G G G$ GAAAAAGGAAGGGGAAAGAGGGGACAAAGGGAGGATGAACAA $A C A G A A A G G G A A C A A A A A C C G G A G G A A C A A G G A G G G G G A A A G$ A G A C A A A CAC G G GAGGAGAGCCCCACAAGGGGAACCAACAAA G G G G GAACAGGGGAGAAGGGCCACAGAACAGAGGAAGGCCCC GAAAAAGGAACCAGAGAAGGAAGGAGAGAAAACCGGGGAAAA G G G G A A G G A G G A A C G GCCTAGGACGGAAGGGGAAA GGGAAGG $G G A A G A G G G G A G A A A A G G A A A A G G G G G A G G G G A A A A A A G G G G$ AAAAGGGAGGAGCCCCAACCGAAAAAAAAGAGGAAAGGAGGG A G G G G G G GCCCAAGAGGGAGAGGAGGAGAAGAGAAAGAGAGA AAGGAAAGCCAAGGGAAAGGAAGAGGCCACAAGGCCGGAAAA $G G A C G G A A A A G A G G G A A G A A G A G G A A A A A A G G G G G A A G C C B A$ AAGGGGCCAAACCCAAAAAAAAAAAAACGGGGAAAAGAAAAA G G G GCCGGATAGGGAAGGGGAAGGAAAGAAAGGAAACCAAAA A A A A C C C C C C G A A G A G G G G G G GCCAAGACCAAGGGAAA G G G G G GAAAAGGGGTTGGGGAGAAAAAAAAAACCAAGAACAGAAAA GAAGGGGGAGGGAAGGAAAACCAAGGAAAACCAAAAGAGGGG C C C C A C A G A A G G GA GA GAACAA GAGAAACCAAAAGAGGAGGA G G G G G G A A A C G G G G G G G G G G G G A C T A A G A G A G G A G G G G C C $\mathcal{A} A$ G G A G G G A A A A G G A G G G G A G G G G G G G G C C G G C A A G G G G G A G G G A A G G G GAAA A G G G G GAAAGGAAGGCCCCGGAAGGAGGAGAAG G GAAGGCGAAGAACGGCAGGGAAAGGAAACAAGAGAAGAAGG A A G G A A G A C A G G G G A A A G C C G A A A G G GAGAAAACGGCA GAA G CAATAAAAAGCCGGGGAAAAGACAGGGAGGAGGAGAAACAAA A G A A A A A C A A A A C C G G G GAAAACC GAAAAGGAGGAAAGAGAA G G G G A A A A A G G G G A G A G G G G G G G G A A A A A A G G T T A G G G A G A A GGCCGGGGAAAAGGAAGGAAGCGAGAAGAACCGAGGAAAGCC ACAACCAGAGAAGAAAGGAAGAAAGGATCCGACCCCGAAGCG $A G C C C C A G G A G G A A C C A G C A A A G G A A G G A A A G G G A G G A G G A G$ G GACAGAGAGGGGGGGGGAAGGGAGGAACCAAAAGAAAAGAA
 $C C G G A A A G G G A G A G A G G A A A G G A A G G A A A A G G C C G G G G A G A A$ A A A A G GAA A GAAAAGGCCGGAAGGGGGGGGGGAAAAAAGAAA
 AAAGGGAAGGCCGGAAAGAAGAGGCCAAGAGGCCCAAGAGAG AA $A G C A G G G G G G A A A G G G C C A G A A G A G G A A G A G A C A A G A A B A$ A G A A $\mathcal{A} G \operatorname{G} G A A A A A A G A G G G A G A G G G G G G G G G G A G G A G A A G G A G$ GAACGAGGGGAGGAGGAAGGAAAAAAAAAGAGGGGAGGAAAG G G G GCCAAAAACGACAAGAAAAGGAAAAAAGGGGGGAAGAAA GGAGCCAAGGAGCCGAACCCAAACAGACGGACGAAAGAGGAA
 G G G G G G A A C C G G A A G G G G G G G G A A G GCCCCCC CAA G G G A C C C $A C G G A C A A A A A G G C G G A A A G G G G G G A A A A A G G G G G A A G G G G A$

A GAA $\operatorname{G}$ GAA $A$ AA A G GAAAAAAACAAAAGGGAGGGGAAGGAGAG G A G G G G A A G A G A A G A G A GAGGAAGAAAGAGAA GA G G G GA G G A G G GCAGGAAGGCCCACCGAGGGGAAAAAAGGGGGAGAAAGGGG AAGGAAAGAAGGAACCGGGGAGGGGGAGCAAAGGGGAAAAAA A GAACCAAGAGAGGGATAGGGGGAGCAGGAAGGGGAGAAAGA GAGAGAGGAGGAAAAAAAGGAAAAAGAGGGTTCGGGAAAAAA GAAGCCAAAAAAACGAGAAGTAGAGGAAGGCCAGAAACAGAC A A G A C A A A GAAAC G GAAAGGAAACAGAAACGGAAGGGACGTT
 G GAGGGGGGGCCTAGATTGAGAGAAGCCGGAAGGAACCGGAA C C A A A A G G T T A A A A A G GA G G A A A A A A G GAA GAC CA G G G G G G A GAGGGGAAGAAAGAGAAAGGAAAAGGAGAAGGGGGGAAAAAA G G G GCCAAAAAAGGAAAAGGGGAAAATTAACCGGAAGGAGAA G G G A C C A C G G C C G G A A G G A A G G A A G G G G G GAA C C G G G G G A A A G G GA $\operatorname{l}$ GACAAGGCCAAGGGAGGAGAGAAACAGGGAAGAAAAA A A G G GA $\operatorname{A} G A A A A A G G G G G A A G G A G G G G G A A A A G G A G G A A A A A$ G G A A G G G G G G G G G G A GCC $\mathcal{C} G A G G G G G A A A G C A G G G A G$
GAACGACGGAAAGAAAGGGAGGGAGGGAAAAAAAGGGAAAG A A A G A C G G G G G G G GACGGGAAAAGGGAGCCGGAAAAAAAGAG A A A A A A G G T T A A G A G A G A A GA G A G A A GAA G C C G A A A A A G G A A GGCCGAGAAAGAGGACAAATGGGAACAAGGAGAAAGAGAGGG AAAGAAGGAAAAGGACAAGACAGAAAAGAGGGAGGGAAAAAA A A G G A G G GCCAA $\mathcal{C} A A A G A G G G A A A A A G G G A A G G G G G G G A A A C A$ G GCCAAGGGGGGCCGGAAAACCGAAAAGAAAAGGAAGGAAGG A G G G G G A C G A A A C C G A GAAACCAAAAAAAACCGGGAA GAAA G G GCAAATTGGAGAGGAAACCAGAAAGGACCAAGGGGAAGGGG $C \subset A A C G A A G G A G G A G A A A G G G A G G G A C G A G A A A G G A C C G G A A$ A G G A A A A G A A C CAACCAGAAAAAAAAAGGAGAAAGAAGAGAA AA G GAAAGGCGGAACCAAGGAAGGGGAAAAAAAGBAAAAAGG AA $A$ A A A $\mathcal{A} G A A A A A G G G G A G G G G G G G G A A A A A G G A G G A A A A A G$ $A G T A G G G G A A G G A A G G G G G A A A A A G G G A G G C A A G G G G G A G G G$ GAGGAAAAGGGAGGGAGGGGGGAAAAGGAAAAAAGAGGGAGG C GAA $A \operatorname{G} G A G G C A A G A G A G G A G G A A G G A G C C A A G G G G G G G G G A$ A G G G A A C A A A G G G G G G G G A G G G A A G G C C A G C C G G G G G A A G G G
 G G G G A A A A C C A GAA $A \operatorname{GAA} A G A G A A G G A C G G A G A G G G G G C C A G$ A G G G G GAGGGAGAGGGAAAGAGAAAAAAACCCAAGGGAAGGG G G TAAA A GAAAAAGAGCCGGAAGAGAGAAAAAAAGGGGGGAA A A G G A C G G A A A G A A A A A A A A A A G GAACC GAGGGACCCCAGCC C C G G A A A A A A G G A A G G G G G G A G G G A G G G A G G G A G A G G A A G G A A G G A A CAGAGGAGGGAGGAAGAGGAAGGGACCGGGGAAAAAA A A G G A A G G G G G A A A G A A A G G A G A G G G G G A A A G A C G A A A A A $\mathcal{A} A$ G G GAAACCGGCCAAAAGGGAAGGGGGAAGAAAAGGGAGGGAG
 G G A A A GACCCGGAAGGTTAACCAGAAAAAGAGGAGAGGCAAA $A G C C A G A A G A A G A G A A C A A G A A G G G G A G A A G A G A A A A G A G A G$ G G G G A A C C C A G A A G G G A A A A G G G G A GAACCGGGGAA G G G A A G A G TA A A GAGGGGGGAAGGC GAAGAGAAAGAGAAGACAACCTT GCAGGACCCCCCGGGGGGAAGGAAGGGGAAAAGGGGAGCCCC A G G G A A G G A A G GAA $A \operatorname{GGGGAAAAGAAAGAACAAGAAAAATAGG}$ CACCAGAAGGAGAGGGGAGGAAAAAAGGGAAACAGGAGAAAA G G G GCACAAGAGGAAAGAGCCGCCGGGAGGACAAGGCCABAA AAACGGAAAAAAGGAGAGAGGGGAGGAAAGAGGAAACAGGBA AAGAGGAACCCCGGGCAGATGAGGAAAAGAACGGGAAACC GA
 GAAAGGGGACGACCGGACAAGGGAGGGAAGAGAAAGATAGAC GAAGGAGGACTTCCGGCCAAGGAGAGAGAAGGGAGBAGAGGG G GCA GAGGCCAAAGAAGACCGGGGGGAGCAGAAAGAAAGAAG AAAGGAAAAAAGACGAGAAGAGAGGAAAAACCAAAAAAAGCC

GAAGAAAACCAACAAGGGAAAACCCCAAGGAGAGGAGGGGAG G G G GCCGGAAGGAGAAGAGGAAGGAGGAAAACGGAGAAGAAA GAGGGGAAAAAAGGAAAAAGGGGGCCGAAGGGAAGAGGACGG GCAGAGGGACGGAAGGGAACGACAGGAAAAACCCAAGGCCAA A A A A A A A A GAGGAAAAAAGGAACCGGAGAGAAAAGGAGAACAA A G G G G G GAAACCGCAAGGAACCAAAAGAAAAAGAACGGGGGG A A G G G GAAAAGGCCGAGGGGTACCGGCCAAAACAGGGGGGAG AAAGGAAGAAGGGGGGGGGAAACACATTGCGGGGCCGAGGAA A GACAAAAGAGGGAGGAGGGGGGGCCGGGGAAGAAGCAAAAA A GACGAGACAGGAGAACAAAGAAAGGGGGAGGAATTGGAGAA C CAATTGGAAAAGGAAGGGGAAGAGGAGGAGGAAGGGGAGAG GAAGAAAGGAAACCGGGGAAAAGGAAGAGGAAAGAACCAGAC A A GA $A$ A $\operatorname{AGCAAAAGGGAAAGGGAGAGGGGCCAAGGGGCAAAAA}$ GACAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGGAAGBG AAAGAGGGAAGGGGAGGGAAGAAACCAAAGAAGGAAGACCAC GAGAGAGAAAGGGGAAGAACGGGAGAAAGGAAAGGACCACAAA A A A A G A A GCA $\mathcal{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G A A C C A A A A C G A A A A A G A C A A G G A G$ A GCGCCAGGCGCACGAACAGCCGGCGGGAGAACCCCAAGGAA C CAAAAGGAACCGGGGAAAAAAAAAGAGGGAGGGAAAAGAGA GACCGGGAAAAAAAAAAAGAGAGAGGGGCCGGGGACCCCAGA A GAGAATAAGGGAGGGAAGAGGGGCAGGTTCCGGGGCCAGAA A GAAAAAGAGCAAAAAGGGGAAGGAAGGAAGGGAAGAGAGGG
 G G A A A A A A G G A A C C GAGGAAGGGGAGCCAAGGCCAGGAAA G G A A A A C A A A G A A A A A A A A A G G CAAAACGAGGGAGAAGGAAAAA A GAAAA AAAGGAAAAAAGAAAAACCCCCGGACAGCCGGAAGG G G G G G GAA A A GAGAAAAGGGAAGAGGAAAGGGAGAGGAAAGA G G G G A A G G G GCAACCAAGAAGACCAGGAGGAAAGAAAAAGAG AAAGAGCCTTGGGAAGCCGGAAGAGACAAACCGGGGGAAAGG AAAAAGGGAAAAGAAAAGGAAAAAAACCGAAGAAAAAGAACC GAGGAAACAAGGAGGGAAAACCAGACAGAGAGAAAAAAGAAC AC G G G G G G G G G G G G G GAAA A A A A A G GC C C C GGGGCCGGAAAA GACCAACCGGGGGGAAAAGGAAGACAAAAAAACCAAAAAAGG


 G GCCAAAAAGCCGGAGAAGAAGAGAAAAGGAAAAACAAAGAG GAACAGAGAGGAAAGGGGAAAAAAAAAAAAAAGGAAAA G GAAA A A A G G A A G A C G A GACCAGAATAGGCCAGGAGGACAAGGAAAA G G G GCCGGAAGGAAAAGGGGGGAAAAGGAGAACCAAGGAGCC AACAACAAGAAAACAAGGGGAAAGCCAGGAAGCCCCGAAABG
 GAGAAAGGAAAAGGAAGGGGAAGAGGCAAGGGAAAGAACCGG A ACCGGGAACGGTTTTAGTTACAGAAAGAAACCAAAAGCCCC G GCCAAAAGGAAAAAGACAAGGGGAAAGCCCAAA G GAAAGGGG
 A A G G A GACCCAAAGGAGGAAGGAAGGAAAAAGAACCAGAG GA AAAGGAGGAAGAAGGAGAAACAAAAGAGAAAAGAGAAAAGGG A GAAAAAAAGGGAACACCACGGGAGAACGAACCCAGAAAGGG G G G GCCGGGGAGCAGGAAACACGGAGAGACGGAAGEACGGGG GAAGAAGGGGGGAAGGAAGGAAGGAAAAGGAAGGAAAAAAAG $A C G G C C A A A A A A G G G G A A A G A A G G G G A G C C G G A A G G A C A A G G$ G G A A A A G A A G A A G A G A A A A A G G G G A A G A G G A A A A G G A A G G G G GGAATTGGAGCAGGGGAAGAGGAGGGCCGGCCAAAAGAGGGA A A A A A A A A ATA GCCAGACAGAAGAGGAAAGAGAAAGGGCCGG
 G G G G G A A G G G A A A G A G G A A GAA A A G GAAAA A GAA $A$ A G A A A A A G G G A G C A A C C A A G G A A G G A A A G G G A A C G G A G G A G G G A A G G A A AAAAAGCAGGAAGGAAAGGGGGAAGACAGGGGAACCGGAGGG

GAAAAAACCCAGACGGAGGGGGAGGGAGAGGACCAGGGAAAG
 G GCCCCGGGGAAAACCGGCCAAAAGGCCGGAAGGAAGGGGGG A A A A G G A A A A G G G G G G G G A A A A G G G G A A A A G G A A G G A A G G G G G GA GAAAAGAGGGAAAAAAAAAAAGGAGGGAAAAAAAAAGGG G G G GACGAAAAGGGAAGAGAAAGGGGGACCGGAAAGCCAAGA G G A A A A A A A A C C G GAAGGGGGGGGCCGAAACCGGAAAAAAAA G G G G A G A A G G G A A A G G G G G GAAAAAGGAAGGGGGAAA A A G G C C T TA $A \operatorname{GA} A A G G A A G A G G A A G G G G G A A G G G A G A G G G A A C C A A G G$ G GAAGGACCCGACCAAGGCCGGGGGGCCGGAAGGAGACAGAA A A GAAA A A A A G G G G CAACAGGAAGGGGGGGAAGAAAGAAAGA GAGGCCAAGGCCAAAAGGGAAAAACAAGGGAGCAGGAGAGGA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGAGACGGGGGA
 G G GACCAAGGGGGGCCAGGAACGAAGGAGGAAGGGAGGGGAA A A A A A A GAAGGGGGGAGGGGAGGGGGAAAGGGAAAAAAAACC A G G G G A A A A A G G G G A A G GAAAA $A$ A $\operatorname{A} A A C C C C A C G A A G A$
GCCGGAACACAAGAAAACAGAGAGGAAAGAGGAGGGACACB AAAGAAAGACAGGGGGAGAAGAGGGAAAGAACGGAACCAGGG G GAA $A \operatorname{GCCA} A A A A A G G A G G G G G A A A A C C G A A A G G A A G A A A A A$ G GAAAACCGGGGAAAGCCAAAAGAAGAACCGGGAAAAGCCAT GCGAGAAAGAGGGGGGCCAAGAAAAAGACGGGCAAAGGACCC G G A A G GA G GACCAAAGGAAGGAAGCCGAAGCAGAACGGAGAB A A TA $A$ A $A$ A A A $\mathcal{A} G G G G G C \subset A A G G G A G G G A G A G G G G G G G A A G G G$ G GAGGAAACAAGGACCACCCAGGAAGAAGGAAAAAGGGAGAG AAAAAAAGGGGGTAGAGGAACCAAAAGGGGCCAAGGAAAAGG AAGGAACCAAAAAAGGAAGGAAGGAAAAAAGGCGGGGACAAA AAAGGGCCGGAGGGAAAAGGAAAGAAAAGAGGGAGGAAACAA GAGGGGAGGGGAGGCACAAGGGAAAAAAAGGGGGAAAAAGGG GGAACCCCAACCAAAAAAGAGGCCGAGGAGAACCGBAAAAGG G G G A G A A G G A A CAA $A \operatorname{GGGGAAAAGGGGAAGGAGAACCAGAAGA}$ G GCAAAAATTACGGAGGGAAAGAAGGAAGGGAAAAGCCAAGG GAAAGGGGGGAAGGCACCCCAAAACAAAGGGGAAGCAAAAGG AACCAAAGAAGGAAGGAAGGGGGGAAAAAAAAACBAAAAAGG GAAGAAAAAAGAGGAGGGACAAAGGGAGAAAAGGGAAGAAGC AA $A G A G A G A G C A A A A A G G A G G A G A A G G C G G A G A A G A A G C C C C$ AAGGCAGAAGGAGGCCAAGGCCGGAGAAAAAGAAGGGCGGAC GGCACCCCAAAAGGAAGGAAAAGGGGAAGGAAAGAAGGAAGG G G G G A G G A G A G A A G G A A A A C C C G G A G G G G G G G G G A A G G G G A A
 CAAGAAGGAAGGGGGGCAGGGGGGCCAGAAGGGAGGGGGGGG GGCCAAGGAGAACCAAGGAAAAGAAGAAAGAGAGAGAGACAA AGCCGGAAAAAAGAAAGAGAAGGAGGGAGACCCCGAGGAAGA G G G G G G A A G G A A A A GAGGAGAGGGAAAACCCCAAGEACAGAA A GAAA A A A A A C C CA $A \operatorname{AGGAAGCAGGAAGAGACAGGAAGGGGAG}$ A A G GCACCAGCAGGAGAAAAACGGAAAAAAGGACGGCACCAA G G A A G C G G A A G G G G A A A A A A G G A GCCCC GAAAGGGGGATACC GAACGGCCGGAAAAGGAAGAGGCCAAAGAAAGCCAACCGGCC $C \subset G G G G C C G A G G A A G G G G G G C C A G G G G G A A A A A G A G A A A A G G$ GAAGGGAGAGAGACAAGGGGGGGGGGGGAAAAAACCGGTXAA G G G G A A A A A A G G G GCC $C$ G G G GCCAAGGGGCCGGCCGGAAAAAA G GAAGGCCGGAAGGAAGGGGAAAAAAAAGGCCGGGGAAAGAA A A G G C C A A A A A A G G G G A A G G G G A A A A G GAA A GAAAA A GAAC C G G G GAAAAGGGGAAAAGGAACCCCAAGGAAGGGGGGGGGGCC $C \subset G G A A A G A G A G G A G G G G A G C A A G A G A A A A A G C C G G A G G G G G$ C C A A A A G A A G A GAGAGACAGAAGAGGGGCCAGGGGGAA G GAA
 A G G A A GCCCCCCGGGGCCGAAGGGGAAGAGGAA GGGAAGGGG $G G A C G A C A A C A A A G A A A G A A C A G G A A G G A G G G G G A A G G G G G G$

A G GAAGCCAAAAGGGATAAGGGCCCCCCAAGGAAAGCCAAAG
 A A G G A A C C A A G G G G A G G G G G G C A G G G G G A GA $\mathcal{A} G G G G A G A G A A$ GAGGGGAAGACCGGAGAAAGGGGAGGAAAAGGGGAAAAGGGG GAAGGAGGAAGGGGGGGAAAGAGGGGAAGGAAA GAAAAAAAC C C C C G GA G G G A A A C G G C C G G G A G G G A A A A T G G G A G G G G G G A A G G G G A A G A C C G G G G C C G A G A A G A A A A C C A A CAA G G G G G C C C A AAGAAGCCGGAGGGCCGGAAAAGGGACAGGGAGGGGAAAAAA
 AAGGAGGAGAACGGCAGGAGCCGGGGGGTTAAGGAAGAAGAA AA $A G C C A G C C G G G G A A C A C C G G G G A G G A G G G A A A A G G G A A G G$ C C G A A A C C G A A G A GAGAAAAAAAAGGGGAAGAGAGGCCCCCC GAACCAAGAAAGAAAAGAGGGGAACCACCCGAAGAAAGAAAG GAGCGGAAAGCAGAAGAGAGCCGAGGGAAGAAAAAAAAGGGG A G GAGGAGGGAGGGCCAGAAAAAAACAAAGCCGGGGGGCCGG G GAACAGGAGGGGGAGGGGAAGAGAGAGCCAGGAGGACAGGG C C G A A A A C GAA $A \operatorname{GAAAACACCGGGGAGGACCGACAAAGAGGAG}$
 $G G A A A A G G A A G G G A G G G A A A A C T T G G A G C C A A G G G G G G A A G A$ GAAAAAGGAACAAACAGACCGGCCAGAGAAAAGAAAGGGGGG A A G GAA T T G G GAAAAGGGAAAGAGGAGAGGAAGGGGCCAAAA G GAAAAGGAGGACCAAGAGGAAGGGGAGAAAGACAAGAAAAA A A A A A A A A A A G A A G A A GAA $A$ G CAGGAAAGAGGAAAA GGGAGAA A GAGACGGAGGGAAGAAAGAGAAGGGGAGAAGCABAGAAGAA $A G G G A A G A G G C A A G A G G G G A G A G G G G G G G G G G A G G A G A G G G G$
 A GAGAGAAGAAAAGAAGGAAAGAGGAAAAGAAGAAAAAAGAA A A G G A A G G A G G G CA $A \operatorname{GAGGAGCAACAAAAAAAAGAAAGGAGCC}$ A A A A G A G A G G A A A A A GAGGGAGGAAAGGGAAGGAGAAA GAAC A GAACACAAGGGGGAGGAGAAAGGGGAGGGAGAGGACAAAAC A A G A A A G G A G C A A G G G G A A G A G A A A A A G A G A A C A A GAAAC G G G GAAAGAGCAGGGGAAGAAGGAGAAACCGAAAAAGAAGAGGG
 G GAGGGGGACAGAGAAAAGGAAGAGAGGGAAGACGAGAAAGA A G G A A GAAA A A G C C G G A A G G G G A A A A A A A A A A A G G GAAC C G A GAGAACAGGAACAGACAGACAGAAGGAAAAAAAAAAGGAGAA A A A A A A A A A A G GAACCGGGGCCAAAAAAAAGGCCGGAAGGAG $C \subset A G G G A A A C A G G G G G G G G G A A C C G G G G G G A A C C A C C C A G A G$ A A A A G G G G A A A G A A A A A A G GACGGGACAGGCAAGG GA GAA G G GAAGAGAGAGGGGGAAAGAGGGGGAAAGCCCAGGAAAGAACC GAAGGAGGAAAGAGGAGGCAAAAAGGGGAAAAAAAACCAAAA A A A A A A $\operatorname{A} G \mathrm{G} G \mathrm{~T} T \mathrm{~T} G \mathrm{G} G \mathrm{G} G \mathrm{~A} A \mathrm{~A} A A A A A A A G G G G A A A G C A G A C C X C$ $C A C C G G A G A G G A A A A A G G A A G G G G C A G A G G C A G A G A C A A G A G$ A GAG $A \operatorname{AA} A G G A G A A A G G G G G A A A A G G G G G G A G G A G G G A A A G B$ A A A A G G G G A G G GA $A \operatorname{GAGAAAAAAAAAAAAAAAGGAAAAGGGGAA}$ G G A A G GCCGGAAAAGGCCGGAGAAAGGGGACAAACCGGAGAA GAGAGAGAGAGGAAGGAAAGTAAGGGAGGGAGGAGGGGAGAA GAAAAAAAGGAAAACCGAAGAGGGAAGGGAACAAACGAGGGG A GAGGGAAAGGGCCAGGGGAAAAGAAAAGGGGGAGGAAAAAG GAACGGGGGGGGCCGGCAGAAAGGAAAACCGGAACCCCAGAA $A C C A A G G A A G G G A A A G A T A G A A G G G G A A G A A A G G A A A A G G A A$ G GAGAGGGCAGGGGAAAAGGCCGGAAGGAAAAGAAGAGAAGAG G G A A G G G G G G G G A A G G A A G A A G A G A A A G G A G G G A G A G A A G G G AACCAAAAGGACAAAGGAAAAGGGCCCATTAGGGGAAGAAGG A A GA $\operatorname{A} A A G G G A G G A A A G G A A A A A G G A G G G G A G A G G G A G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAACGGGGAAAAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAGGGG $G G A A A A A A A A G G G G A A G G A G A A G G A A G G G G T A C C G G A A A G C C$ A A G G G GAACCCCGGAGAGCAGAGGAGAGTTGGGAAAAGAAGA

A G G GACACAGGGAAGGAAAAGAAAGGCCGAGGGGAAAGAGGG G GAGCCGCGGACAGCCAGAAAAAAGGAAGGAAGGGGCAAGEG AAAGGAGGAAGAGGAAAAGAAGAGGGCAGGAAAGAAAAACAA

 G G A A G G A A A G A A G GAACAAAGGGGAAAGCCGCBAAGCACAA G
 A A A A A GAA $A \operatorname{GGGGGAAA} G G G G A A A A G G G G A G G G A G A C A G A A G G$ G GAA A G G G A A G GCA $\mathcal{A} G A G G A G G A G A G G G C C C C A A G G G A G A G G$ AGAGGGGGAAGGGGAAAAAAGAAAAAAAAGAGAGACAGGGGG G G G GAACCACAAAGGGAGGGGAAGCAAGGAAGAAAGAAAAAG AC G GAAGGAGAGAACCGGGGCCAAAAGGCCCCAAACAAACAA A GAA A G G A A A A A GAGAGGCCAGCAAAGAAAGGAAAAGGAAAA AACCCCGGCCGAGACACACAGAGGCCGGAAAAAGAGATAGAG GAAGAACCGAAGGGAGGGAACAAGAAAACCAAGGAAGGCCAG G G GAGGAAAGGGAACAGGGGAAACAAAAATCAAGGGAGAACA A GAGACAGGGAAAGGAGGACGGAGAAGGAGAAA GAAA
A A A A A G G G A A GCCAAAGGGCCGAGGAGGGAAAAAGGGGGGG1 GGCCAGACAAACGGGGCCCCACAGAAGGGAGGGGAACAAAGA A A A A G G A G G A G A G A A G G G C C G G T T G G A G A A G G G G G G G G A C A G A GAGATGGGAGGAAAGAGCAAAGAGCGGCAGGGGGGAAGGBA G G G G G G A G A T G G A G A A A A G G G G G A G G G G G G G G G G G A A A A A A $G$ A GAGCCGGAGGAAAAAGGTTGGAGGGCCAGCCABAAGGGGGG A A A ACCAAAAAACAAAAAAGGGGGGAAGGGGGGAAGGGAAGA A A G G G G A A A A G G G G A A $\mathcal{A} G G G G G A A G G G G A A A A G G A A A A G G G G$ G G G G A A G G A A G G G G G G G G A A A A A A A A G G G G A A A A A A A A G G A A AAAAGGCCGGAAAAGGAAAAAAGGCCAAGGGGAAAAGGGGGG G G G GCCAAAAAAGGGGGGAAAAGGGGAAGGAAAAGGGGAAGAG A A A A T T G G A A A A A A A A T TA A G G G G G G G G A A G GCC G G A A G G G G A A A A A A G G A A G GAACC G GAACCGGGGGGAAAAGGGBAACCGG C C G G G G G G A A A G G A G G A A A A G G C C G G A A A G CA G G G G A G C C G G GACGCAGGAAAAAAAAGGGAAGAAGGGGGAGAAAGAAGTTGG GAAACCAAAGAGAGGGCCAGAAAAAAAAAAAAAGAGAGAGGA $G G C C G G C G G C G G G A G G A G A A A A G G G G G G G G A A C C A A A A A G A A$ C C G G A GA $\operatorname{CA} A A C C G G G G G G A G G G G G G G A A A A G A A G G G G G A A A T$ G G G A C C A A GACCAA C A A GAG GAGAGAAAGACACAGGGGGAAAA AC GAA $A \operatorname{GA} A G G G G A G G C C A G A A A G G G G A G G G G C C G A G G C C A A$ $C \subset G C G G G G G G A A A A A G A A A A C C G A G G G A A G A G G G A A G G C C G G$ GAGAAAGAGGGGCAAACCAACCTACCGAAAAAGAAGCCAAGBG GACGAGGGAGAAAAAACCAGGGTAAAAACCCAAAAGBACAAC A G G GAAGGGGGGAAGGCCCCAAAAACGGAAAGCCAAAAGAAG A A G G G G G G A A A A A A A A C C A A A G A A A A A A A A A A A A A A A A C C A A G G GAGAAGGGCCACAGGGCCCAAAGGAAGGGGGGAACAAACC G GCA C G G G G G A G G G A A G G G A A A C C A G G G G G A G G G A A G A A G A A A A G A A A A A A A A GAGGGAAGAAACCGAAGGAGAAAAACAGGTA
 A A G G G A A A T T C C A A A A A A G GAA A A A G GAGGAGGAAAAA G GA G AAAAAGGGGAAAAAGGAAAAAAAACCAGGCAACCAAAAGGAG A A G GAA A GAATTGAAGAAAAAAGGGGACAAGGAGAGGGAAAC A A G A A A A A A A C CAAAACAAGGGAAAAAGGACAGGAAGGAGAA AAAAGGCCAAGGAAAAAAGACCACAAGGAAAAGGGGGAAAGAA A G G G GAGGAAGAAAAAAGCAGCGAAAAACCAAAGAGGGAGAA A CAG $A \operatorname{GGG} G \subset A G G G G A A A A G G G A G A A G G A G A A A G G C C A A G G G G$ G GAGAGCCGGAGAGGGCCAGGGAAGAGAGGAAGAAGAACCGG A A TACCGGACGAAGAGAGAAGGACGGGGGAGAAGAACCAGAA A G G GACGAAGAGAGAGAAGAGAGGAAAGCCCAAAAGAGAAAA G G G GAGTACCAAGAAAAAAGGAGAGACCAGACAAAAGGAAAA A A GACA A A A GCAA GAACACCGGAGAGAAAGAGGGCACAAA GA G G G G A A C C G G G GAGAAGGGGGGGAGGAGAAGACCAAAGAGGA

GAAAAACCAGAAGGAGGGCCGGAGAAGAGGGAGGAGAGGGGA A A A A G G A A A C A G G G A G A A G A G G G G G G C C A A G G G G G A A A G G G G G G G G A A G G A A G G GAGAGGAAGAGGAAGGACACAAAAAA G A A A G A GGCAACGGGGCCGGGAGAGAGAGAAAAACCAAACGAGGCAGA A GAAGAGGAAAGAGAGCCGGACAACCAGGAGAAAAAGGAAAA A A A A A C A G G G A T G G A G G A A G G C G G G G G A G G A A A A G A A A C A G G G G G A A A A G A C G A GAGGAGAGCACCGGACGGGGAAAGAAAA GA AAAGGAAGAAGAAGACGGGGGGCCAAGGAAGGCCAAGGAGCC G G G G A A A G A G G A A A G G A A A A G G G G C C A A G G G G G G C C G G G G A A AAGGAAGGGGGAGAGCGGGGAAGGAACCCCAAAAAAAAGGGG
 G GAAGGAAAAGGAGAGGGCCACAGGGCAAGGACCAAAAAAAA A A A GCCAGATGGACGGAAGGCCACAACCGGGGGGAACCGGGG C G G G G A A A A G A A A A A A G G G A A A A A A A A A G G G G A C G G A A G G G G G G A A A A G GAGAACCAAAGCCGGAAGGAAAAGGGGAAAACAAA G G G GAAAAGGAAAAGAGGAAAAGACAGGAAGGGGGAGAGGGG A A G GAGGGAAAGGGGGAAGAAGGGGAGGGGAAGGGAAAAAGG GAAAAAGGAAGGAAGGCCCCAAAAGAGGCCAAAAAAAACGGC GAAAGGAAAAGAGGACGAGGACGGAAGAAAGGCCAAAGAACC G G G G G GCC G G A A G G A G G G A A G G C C C C G GAGGGAGG GAA G G A A G GAAAGAAAGCCGAGAAAAAGAAAGGAGGGGGAAGAACGAAC GAAAAGAAAAAAGAGGAAGGAAAAAAAGAAGGAACCAAGAGG A A G G A A A A G G A A C C C C G G G G G GCCCCCCGGAA GAA G G GAA G G G A A A A GA $A \operatorname{GGGGGGGAAGGAAAGGAGGGAAGAAAAAAAAGGAG}$ G G G GAGAACCGAGGAAGAAAAACCGGAAAAAAGGAGGGCCGA CAA $A \operatorname{GA} A \mathrm{~A} A A A G G A A G A G G G G G A G C C A G A A A G A G G G C C A A C C$ A G G GCCAA $C$ G G G G G A G G G G GAGGAAAACCCCACAAAGGCCGG G G A G A A A G A A C A A A G G GAGGAAGAGGAGAACC GAA GA GAGAA A GAAA ACCAACCCCAGGGGGGGGGGGAAGGAGGGAGAAGGCC G GAGAGGGAACCAGGGGAAAGAAAAAGAGAGAGAAGAAAAGG GAGAAACCAACCGGCCCCGGGGCAAGGGGGAAAAGGCAAACC A GAAGGAAAAAACAGACACCGGGAGAAGAAACAAAGAAAGCG GAA A A A G G G GCC $C$ CAGGAGAGAGAGGGGGGGGGGGCCGAAAAA
 A A A G G GCCAAC $C$ C $\mathcal{C} G \subset A G G G G A A G G G G G G G G G G G G G G G A A A C C$ A A A A C C G G A C A A G GACAAA A A A G GAAAAGGAACCAAGGAAA G A GAGGGAAGGAAACCCGGAGCCAAGGGGGGGGCCGGAAGGGA G G GAAAAGACAGAAGGCCGAAAAAGGAGACGGGGAAGAAAGAA A A A A G A A A A A A GCAACAGGGAGGGCCCCGGGAGATAGGAAGA GA $A \operatorname{GGG} \operatorname{GAA} A G G G A A A G A G A A G A G G A A A G G A A G A G C C A A A A A A$ GAGGGGGCCAACAGCAGGAAAGAAGGGGGGAAGGGGGGAGAA GA $\operatorname{G} A A \operatorname{A} C A G G G G A G G A A A A A A A G G A G A G A A C C B A A T G G G G C C$ AAAAGGAGGAAGACGGAAGGGAAACCAACCAGGAGGCCGGGG A A A A A A A ACCCAAAAAAAAGGGCCAGGAGGCCCCCACCGGGAA GAAAGGAACCAGAAGGAGAAAAGAAAAAGGAACCGGGGAA GA A A A A A A A A G G G G A A CAAAAACCCCAAGGGGGGACGGGAAACC GA $\operatorname{G} A A A A A A A A A C G G G G G G A A G G G A A G A A G G C C G G G G A A A A C C$ A A G G G G G GAA $A \operatorname{AGGGGACCAGAACCAAAAAGGAAAGAGAAGAG}$ G G G GAGGAAAAAGGCCAGGGCCCCAGAAAGAAGAAAAAGGCA
 G GCCAGGGAAAGAAGGGAGAGGGAGGAGAGGAGCGAGGAGAA A G G G C A G G A A A A A A C C G GAA $\operatorname{A}$ A GAGGAAAAGATGGGGGGAGAA GACAGGGAAGAAGGGGAGACAAGGGGGGCCCCCAGGAAGAGA GAAATACCGAAACCAGGAGGAGGGAAAGCCAGGGGGAACCGG $A A C C C C C C G G G A A A A A A A G G A A A A A A G G A A G G G G A G A G A A G G$ G GCAGGCCAACCAGAAGGGAGGAAAAAAGGCAGAAAACGGCC G GAA $A \operatorname{G}$ GAAAAAGGGCCGGGAAAAAAAGGAAAGAGAGAAGGCC A A A A G GAA A G A G G GAGGGAAGAGAAGGAAGAACCAGAAGGAA AAGGGGGGAAAAAGAAGGACGGAAAAAGAAGGACGGAGAAAA

GAGGGGGGCAACAAGGAGAGGGGGGGAAGAGAGATTAACCGG
 AAAAAAGGAGGGGGAAGGAGGGCCAAAAAACGGGGGACAGAA G G G GCA $\operatorname{C}$ G G GAAAAAAAACCGGGGGGGGCCGGAGAAAACAAA G GACAAAAAGCCGGAGAGAAAAAAGGAAAAGAGGAGAGAGAA ACGGCAAAGGAACAAGGGAAGGGGAAACAAGGAAAAGGAGAA G G A A G A G G A G G G A G A G G A G A G G G G G G G A A A G G G A A A G A G G A A AAAAGGGGAAAGGGGGAAAGAAGAGAGGGGGGGGGGAGACAA G GAA $A \operatorname{GAAA} C A C G A G G A C G G A G G A G G G A A G G A A A A A G G T T G G$ AAAGGAAAGGCCAAAGAGCCAGAAGGGGAAGAGGAGAGAGGG GAAAAAACCCGGAAGGAGAAAACCAAAAGGAAGGGAAGGGGG AAAAAGAAGAAGCCAGGAGAAAAACCGGAAGAACAGCC G GAA $G G A A G G A A A A G G A A A A A A A G G G G G G G A C A A G G A A A G A A G G A A$ $G G A G A G A A A C A A A G A C G G G G G G A A G G A A C C A G G G A A A G A G A G$ ACAGGGGGGAAGACGGGGGGGGAAAAAAAAGGGGGGCCAAAA A G G GAA T T G G GAAA $A \operatorname{A} G A A G G A G C C A A A A A A A A A A G G G G A G G G$ GAAAGAGGGGAAGGGGAAAAAAGGAAAAAAGGGGAAG
$G C C A A A G G G A A G G C C G A A A A A G G T A G G A A G A C C A C A A C C G A$ GCAACCAAGGGGAAAAAAACGGGGAGAAAAAAAAGAGGAGAA A G GAA A GAGACCGGGGAACCAAGGAAAAGGAAAAGGCAAAGG $C \subset A A A G A A G G C C G A C C A A G G G A A G G G A A A A A A A A G G A A A A G A$ A G GAGAGACAAAGGAGGAAGAAAAGGGGCCCCGGGAAAGAGA GAGAAAAAGGAACCGGGAAAAGCCGGAACCGAGGAGAAGGAA G G G G A A G G G A G G G A G G A A A A A G GAGAAAGAAAAAAAAAAA A A A GAAAAAAAAAAAGGAAAAGGAAAAAAAAGGGGGGAAGGAAAA A A G GAA A G G GAACGAGAAAAGGGAGAAAAAAGAGGAGACAAA G G G G G G G G G G A A G G A A G G G GCCGAGAAGAAAACCAAAAAGAA TAA A A A G G G G G G G G G G A A C C G G G G G G A A G A GAGG G A A A A A G G A A A A A A G G G A G A G G G G A A A A G G G G G G G G C C C C G G A A C CAAAA C CAAAAAAGGGGAAGGGGCCAAGGAAGGGGGGGGAAAAGAAA G GAA A GAAAA $A \operatorname{AGGGCC} C \subset A A G G A A A A A A G G A A G G G G G G C A A A$ G G G GAAAAGGGGGGAACCGGGGGGGGGGAAGGCCGGAAAAAA AAAAAAGGGGGGCCGGGGCCGGAAGGAAGGGGAAGGGGAGAA A A G G A A C C A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G A A A A G G G A A A A A$ A A G G A A G G G G G G A A A G A A G G A A G GAAAAAC CAACC G G G G GA G G
 GAAGGGGAGAGGGGAACCAAGGGGGGAGGGGGA $\operatorname{A} A \operatorname{A} A \operatorname{A} G A A A G G G$ G GAAAAAGCCAAAAGGGGAGCCAGGGAGAGGAGGAAAAAACC $A C A C A G G G G G A G A G A G G A G G C A G G G G G G C C G G G G G G G A A A A A$ G G G G G G A G G G G G G A A A A A $\mathcal{A} G G G A A C A G G A G G G G A A A G A A G A A$ G G GAGGGGGGGGGGAAAACCCCGAGGGGGGGAACAACCAGGG GGGACCCCCAAAGAAGGACAGGACAAGAGGGGGAAAGGAGAG $C \subset G A G G G G A A A A C C G G C A A A C C G G G G C C A A A A C A G G G G T T G G$ G G GAGGCCGGAGCCACGGAAGAAGCCAAGAAAAACCAAGGGG $G G C C A A A A A A G G G G G G G G A A G G A A A A C C G A A A G A G G A A G G G G$ AAAAGGCCAAAAGGAAAGGGAGAAAAACGGAAAAAAGGGGGG A G G G A GCCAAAGGAGGGGAAGGGGGACCAAGGGGGAAAAAGG GGAACCCCAGGGAAGCAGGGGGAGAAAAACGAACAGGAAAAA GAAACAACGGAAACGGGGAAGGGGGGCCGGCCAAAAGGAGCC AACCGAAAAGGAAACCGGGGACGAGAGACCGGAAGAAAAGCA $A \subset A G A G G A G A G G A G G A G G G G C A G G A A A G G A A A A G G G G A G G A A$
 G GAGAAAAAGACAAGGCCAAGGAACCAACCAGGGAGAAGAGA CAAGGGGGAAAGAAAAGGAAGAGGGGAAGGAAAAGAAGAAAG AACAGAAAAGCCAGGGAAGGGGATAGACAGAAACAAGGAGAG $A G A G G A A A G G G G A G G A A G A G G A G G G A C A A G A A G A A G G G A A G A$ A GAG $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} C A A C A A A A A G C C A A G G G G C C A A C C G A G G G C$ AAAGCCGGCCCAAACCGAGGCACAGGAGAAGGGGAAGAGGGG ACATGGAAGGAAGACCAGAAGGGGACAAGGCAGGACAAAAGG

GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGCAGAAG GAAA A $A \operatorname{G} G \mathrm{G}$ GAGGAGACGGGGAACCGAGGGAAGAAAAGGAGAA GGAACCCCCCGGAAACCCGGAGGGAAGGGGAGGGGGAAAAGA ACAAGGAGAAAAAGCCGGAAACGGGAGGAAAGGGGGAAAAAA A G G G A G G G G G A A G G G G C C G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G G G G A A A G A$ G GAA A G G G A A A A A A G G A A G G G G G G A A G G G G G G G G C C A A G G C C A A G G A A G G G G A A C C G G A A A A G G G G A A G G G G A A A A C C G G A A A A AAAAAAGAGAAAGGCCGGAAAGAGGGAAGGGAGGAGAAAAAG A G G G G A A G A G G A G C G A A G A A A G G G A A G A A G G G G G G G A G G G G G GGCAGGAAGGAAGAAAAAAGGGGAAGAAAAGGGGGAGAAAAA A G GAGGAGAAGGCCAAAAAAGGGAGGAGAAAAAAAAGGGGCG $G G A A A A A A G G A A G A G G A G A G G G A C G G A G A A A G G A A C A G A G A A$ C C A A G G G A C A G A GAGGGGGGAAGGGGGGAGGGAAAAAAAAAA G G G G A A G G C C A G G A A A G A A G G G A A A G GAAA A G G G G G A CAA A A A GAGAAAAAAGAGGGAGGGGAAAAAAGAGGGGAGGAGAAAAA G GAGGGGGAACCCCAGCCAGAAAGGGAAGGCCAGAAAAAAGG
 G G G G G G G G G G G G G G A A G G G G A A A A A A G G G G A A G G G G A A G G G G G GAACCAAAAAAGGAAGGGGAAGGAAAAGGCCAAGGGAAAAG G GAA A GCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGGAAAA A A A A A A A A G G G G G G G G G G G GAAAAAACCCCGGAAAAAA GAAA AAAAGGGGGGGGAAGGCCCCAAAAAAAAAAAAGGCCAACCBG A A A A G G A A G G G G G G C C G G G G A G A C G G A G G G G G G G A A A A G G G G AAAGACGCAAGATTAGAAGGCCCAAAAAAGGGAAAAAAAAAA GAAAAGAGAAGGGGCCGCGGAACCGGAACACAAGAAAGAAAG GAGAGGGGCCGGAAGGCCGGCCGGCAAAGAGAAAAAAAGGCC A A G GAAAA $A \operatorname{ACC} G G A A G A G G C C A A G A G G G G G A G G G A G G G G G A$ GAA $A \operatorname{G} G A X G G G A G G G G A G A G A G G G A A G G G G A A G G A G C C G G G G$ G G G G G G A G G G A A A G A C A G G A G G G G C C G G G G G G G G A C C C C C C GAGGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAAGAGAG C C A A A C G GC C G A G A G G G A G GACGGAAAGGAGGCCAG GAGGAC AAGGAAGGAACCGGCCAAAAAAAAAAGGGGAAGGAAAAGGAA
 G G G G A A G G G G A A C C A A G G G GAA A A G G A G G G TAAAAA $A$ A A G G G A A A G G A A A A A A G G G G G G A A A GAAGGGGAGAACCAACACAAAAA C CAG G G TAGAGGGAAAAAAGAGAGGGAAAAAAAACAAAGGAG A GAATTCCAGCAAGAAGAAACCCCGAGGGGGGAGAGAACACC G G GAAAACAACCAAGGGGAAGGGGTTCCGGGGGAAGAAAAAG CAAAAACCGGGGAGACGGGGAAGACAAGAGGGGGAAGGAGAA AAACGGACAGGAAGAGACAAGGAAGGCAACGGAACAGGAAGG G G GAGCGGAAGGAGGAAAGGACGAGGGAAAAAAAAAAAGAGA A A G G G G G G A G A G A A G G G A C A G G G A A G A A A A C C A A G A A G G G A A G GAAAAGAGGGGGGATAGCCGGGGGGAAGAAAGGGGAGCCCC AACCAACCGAAAAGGGAAAAGGCAGGGAGAGGGGGGAAAGCC G G G G A A G G A A G A G G A A A A G G C G G G G A G A T T A G G G G A A C G G G A
 A GAGGGATCAAAAAGGGGACAAACAAAGAAAAAAGGCCAAAA T T GAA A G G GAATGAACGGCCAAAAGGGGGGAAGGAAAAAAAA
 A GCCGGCGCCGGAGGGCAAAAGAAGCGGAAGGGGAAGGAAAC
 A A A A G G G G G GCCA $C$ CAA $A G G G C C A G A A C C G G G G A A A A A G G G A G$ GAAA $A \operatorname{AGG} \operatorname{G} A A G G G A A G A A A G G G G A G G A G A A G G A A C C A G G G G G$ GAAAAGCAAAAAAAAAGGGGAAGGCCAGAAGAACGGGAAGAG G GAGAGGGAAAAAAAAAAGGAGGGAGAGACGGACGAAAAAGG GA $\operatorname{G} G A C C C C C C C G G G G G G A A G G G G A C A A G G C C G G G G A G G G G G$ G G A A A A G G G G A GGGGACCACAACAAAGGAGAGAGGAAAAACAC GAAAAACCGGCAAAAGAGACAGGGAAAGAAAAGGAGAAAAAA $A G G G G G C C G G A A G G A G G A A G A A A G G A A G A C A A A A G G C C A G G G$

GAGGAAGAACGGAAAAAGAAAAGGAGGAGGAAGGAGGGAGGG G G G G A A A A G G A A A A G G A A A C A C G G G G A A A A G A G G A A G A G G G G AAACGGGACCAACAGGGACCCCAAAAGAAAAGAGAAGAAAAG GAAAAAGAGGGAAACGGGGAAGGAGGGAAAAGGAAACAAAAA G GACAAGAGGGGGAGGAAGAAGGGGGGAGGAGACAAGGCC A A ACGGCACCAAGGAAGGGGGGGGAGAGCCAGAGGAAGGGAGCC G G G A A C G G G G A A A G G A A G G A A G G A A G G G G A A A A G A A GAA $A$ G $G$ $G G A A G G G A G A G G G G G G A A G G A C G G G G C C A G G A A G A G A A A G A G$ A A G G A G G G A G A C A G A A A A G G G G A A G GAGGAACAGAGGA G GAC GGCAGGGGGGAAGAGGAAGAGACAGGAAAAGAGAAGCCCCGG CAAAAAGAAGAAGGGGGGAAGGAAAAAGCAAGACAAGAAAGB A GAA A G G G GAA A GAAA A A A A A CAACC G G C CAAAAA G GAA G GAC G G A A A A A A G G G G C G A A G G G A A G A G A G G G G G A A A A A A G G G G G G A A C A A A G G G G A A C C A A $\mathcal{A} G A A G G A G G G G G G G G G G G A G G G A A G G$ A G GAAAAGAAGGGAGAAAAAAGAAAAACGGAGGGGAGAAAGA G G G G G GAGGGGAAGAGGGAAAGAAAAAAAGGGAGAGAGAAAC A A A A G G G G A A G GAGGGACAAAAAAAAGGACAGGGAGC
AA GAGGAAAAAGAGAAAAAAGGAAGAGACAACCGGAAGAAA C CAC G GAGAGGAAGGCAACAGGAAAAGACAGGGAAAAGGGGA G GAA A GCC G G A A G G A A G G G G G G G G G G G G A A A A A A A G G A G G G A A A G GAGAGGGAGAGCAAGGAAGAGGGGAAAGGGGAAAAAAAA AAAAGGAACCCCCCAAGGAAAAGGAAGGCCGGAAAAAAAAAA A A G GCCGGAGGACCAAGGAGAGGGAAACGAAGGGAAAACCBG G G G G A G G A G G C C G G A G G G G G G G A G G G G G G G G A A $\mathcal{A} A G G G G G G A$ C C G A G A A G G GCCA G A A A A G G G G C C G G G G A A A A G G T T G G G G A G GAGGAAGGGGCCACCGAAAGGGGGGAGAAGAAGAAGAAAAGA A GAACCAAGCGAGAGGGGAGAGCCGGGACCCCGGAAAGAAAG C A A A G G G A A G A G G A G G A T A A G G G G G G A A A G A A G A A G G G G G T T G G G G G A A C G G G G G A C G A A G G G G A A A G A G G A G A A G G A G G G G G G CCAGAAAAAAGGAAGGGGAGAAAAGGGACCCCAAGGAGAGAA G G C C G G A G G G A G A A C C G G A C G G G G G A G G G A A G A A A A G G A G A A $C C G G A A C A A A G G A C G G A C G A C C G G A G G G A A G G A G A A A G G A G A$ A GAGAGAACCGGAGAGAAGGAAGAGGAGAAGAGAGGGAACBG G G A A A A C A A G G A A G A G G G G G G G G G A A A G G G G A G G G G C A T A A A
 G G G G C C A A G G A A A A A A A A G G G G A A A A C C A A G G G GAACC G G C C G GAGAGGGCCGAGGGCAAGGGGAAGGAAACGAGGGGAGAAAG G GACCAGGAGGGAAGGGGAAAGGGAGAAGGGGGGGGGAAAAA A A A A A A A A $\mathcal{A} G G G A G G G A G A A G G G G G G A A C C G G A A A A A A C A A A$ A A G G A A G G A $\mathcal{A} G G G G G A G G G G A A A A A A A A G G G G A A A A A A A A A A$ $G G C C A A A A G G A G A G G G A A G A A G G A A A A G A C A C A G A A A A A A G G$ A A A A G GCCGGGACCGGAAAAGGAAAGGGACAGAAGAGGAGAG GGGGCCGGCCAGAGAAGGGAAAAGAGAAAAGAGGCCGAATCC G GAA $A \operatorname{GA} \mathrm{~A} A A A A A A A A G G A A G A A A T T A A A A G G G G G G G G G A C C$ T T C C G G G G G G A A G G G G G G G A G A G A A C A A G A GAA A A G A G G A G A GAAAAAGAGGACAGGGAAACAGGAGGGGGGCCGAGGGGAGAG G GAAAGGAAGAAAAAGAGAAGGAAAGAGAGAAAAAACCACAA $C \subset A C A G G G G G G G G G C A G G G A G C G G G A G A A G A A A A A G G A G G G G$ GAGGGGGGGGGGGGGAGGGGGGAAGGAAAAGGGGGGAAAGAA A A G G A A C C C A G GAA A GAA $A \operatorname{AGGGAGCAAAGGAGCGAACACCBA}$ A C A A A A A A C C A A C C C A A A G G A G G G A A GA G A G G A A A G G G C C G G AC G G GAA $A$ A $\operatorname{T} A A A A A G G G A G G A G C C G C G G A G G A A G A G G A G G G G$ A A A A G G A A A G G G G G A A A A A A A $\mathcal{A} G A A A G G G G A A C C A A G G G G G G$ G GAAGGAAAAGGAAAAAAAAAAGGGGGGAAGGAAGGGGAAGG C CAAAAGGAACCCCGGGGCCAAGGAAGGAAAAAACCGAAAGAG G G G G G G G G G G A A G G G G C C A A A A A A G G A A G G C C C C A A G G G G G G G G G G A A A A A A A A G GCCCC G G G G G G G G A A A A A A A A A G G G G G G G G A A A A A A C C A A C C A A G G A A G G G G A A G GAAAAAAAAA AAAAA A A A GAA A GAA A G G G G G G GAACCGGGACCAAGGGAAAAGAAAAGG
$C \subset G A G G A A C C G A G G A A A A C C G G A A A A G A A A C G C G G G G A A A A G$ A A GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A}$ GACAAGGGAGGAAGGAGCCGGGAAAAGGAGGAA $G G A A A G A A A G A G G A G G G G A G G A A A G G G G G G G G A A G G A A G G G G$ G GGAGAAAAAAAAGGGAAGGAAGGCAGAACAGGGGGAAAGGG GACCAAGGGGAAAGAAGGGAAAGAGGCCGGAAAAAACBAGAA G G GA G GAA A GCCAACCCCAAAAGGGGGGGAAAAA GGGAGGAG A A A A G GAAA $A \operatorname{AGGGGAAGGGGGGAAGAAGAAGGCCGGAGAGAG}$ A G GAGGAGAAGGAAGAGAAGGGGGGGAGGGGGTTAAAGACAC A G A C G G G G A G A C G A A A A G G G G G A A G A A G A A A A A A G G G A G G A A G G G G A G G G A A G G G G A A A G A G G G G G G G A A A A G G A GAC G G C C G G A GAGAGACGAGGACGGAACAGGAAAGGACAAAGGAGAAAAAG A GAA A GAGCCGAAAGGGGGGAAAGGGAAAAACGGACGGGGAG A G G G G G G G A G A G A A A A A G G G A A G G A A G GAGCCAA G GAA G G C A G G G G A A G G A A G A A GAAA A GATXCAAAAAAGGGGGAGGGAGA G GAAGAAGGAAACAAGGGGAAGGAGAAGGAGCAAAATACGAGG G GAAACAAACAAAGGAAAGGGGCCGAGACCGGGGCCCCAGAG A A G G A A G G G G G A A GAGACGGGGGGGGAAAAAAAACCAGACAA GAAGAGAGGAGGGGGGGGGGAAAAAAAAGGCCAAGGCAAAGA $G G A A G G A A G G A G G G A A C G C C A A G G G G A G G G G G C C C C C C A C G A$ G GAGAAGAGAGGCCAACAAAAGGGTTGGGGAAGGAGGACACC AACCAGAAACAGCACGGGGAGGAGGGAAGGGAAGAGAGGGGG A GCCACGGAACAAGAGGGGGAACCAAAGAGGAGAGGCCAAGAA A GAGCCGGAAGAGAACGACCGACCAGGGAACCGAGGCCAGGG A A A G G GCGAGGAGGGGAAAAGGGGCAAGGGAAACAAGGCCGG G GAA $A \operatorname{GAAAAACAGGGAGAGGAAAAGGTTCCAGGGCCCCGGAA}$ AGGGCAAAGGGGAGCCGAGAGAAAGAAAGGCGGAGGAAGGGG
 $A C G G A A A G G G G G G G A G A A G G A G G G G G G G G G A A A A A A A A G G G G$ A A GAA A G G A A A A G G GAAAGGCCAAAAGGGGACAA GAGA GAAC AAAGGGAAAAAAGGAGAGAAAAAAAAGGAAGGGAGGGGGGAA GACCAAAGAGCAGGAACCGGAAGGGAAGAAAGCCAAGAAGAG $C A C C G G A A A G G G G G A G G G G A G A G G A A A A G G C C G A G G A G A G C A$ GAGGGGAAAAGGGGGGGGGGAACCGGAAAAAAAAGGTTAAGAA GAAGAGGGCCCCGGAAAAAAGGAAAAAAAGGAGGGGGGAAAA AAGGGGAAAAGAAAAGAAAAGACCGAGAGGCCAAAAAAGAAG $C \subset C A A C G G A G A G A G C C A G G A A A A A A A G G A G A A A C G A G A A C B G$ G GAAAAGGAAGGAACCAAAAGGAAAAGGGGGGGGAGAACAAA A GAAAAAAAAAGGGGAAGAAGGGGGGAGGAGGCAAAAAAGAAA A A A A G GAAAAGAAAGGAACCGGGAGGGAAGAAGGCAAAGGCC C CA $\operatorname{CAAAAAGGAAAAGGGGCACAAACCGGGGCCAGAAGGGGGG}$ G G G G A A A G A A G G G G G GAACAGAGGGGAAGGGAAAAAAAGGAC A A A G A A A ACCAGGGCCAAGGCCGGCCAAAGAAAGAGAGAAAA G G G GAA A A GAAGGGCAGACCCCGGGAAGAGAGAAGGAGAGAA G G G G A A C C G A G G G G G G A A G G G G G G G G A A A G G G G G A A GAAA $A$ A A A GAAA A $A \operatorname{AGGGA} G A A A A G A G G A A A A G G G G G A G A A G A G G G G A A$ G G G A G G G G A G G G G G G G A A A G G G G A G G T A A G A A G G G G A A G A A A G G G A A A G G G G A A G A A G G GCCGGGGGAAACCGGAGGGAAGGCC AAAAGGAAGGAAGGAAGGGGAAAGAAAAAAAAAAGGGGGGGG G GAA $A \operatorname{GAA} A C G G G G A A G A G G G A T A G G A A G G A A A G G A G G G G G G$ ACAAAAGGAGAAACGAGACCGGAAAGCAAAGAGAGGGGCCBA G G G G A GAAAAGGAACCCCGGAAGGAAGGGGGGGGGAAAGGGG C C G G G G G G G G G GAA A A A A A G G GAAA A G G G G GAA A A A A G G G G A C A GCCAAAGAGGAGGAAGGGGCACCAACCGAAGGGGCGAAAAA GAGGGGAATTGGAACCAACACCGGAAAAAAAGGGGAGGAGAG A G GAGAACAGGGAAGGGGAACCAAAAAAGGAAGAAGAGAAAG G G A A A GA GAGAGGAGAATAGAAAAGAGAAATTAGAAAGAGAA A GAA A $A \subset C G G A G G G G G G G G G A A G G G G A A C A G A A G G G C C G G A T$ ACAAG $C$ G G GAAAAGGCCGGAAGGGGGGGGGGGGAAAAAAAAAA AAGGAAAAAAAAGGCCAAGGAAAAGGGGGGAAAAAAAAAAGG

A A G G G G G G G G A A G G A A G G G G G G A A A A A A A A G G G GC C G G G G A A A A A A A A G G G G A A A A G G G G A A G G G GCC G G C C A A C C C C A A G G G G G GAAAAAAAAGGGGGGAAGGGGAAAAAAGGGGAAGGGGGGGG AACCGGAAGGCCAATTAAAAAAGGGGCCGGAAAAAACAAAAA G G G G G G G G A G G G GAACAAGAGAGCAAGGGAGAA G G A GAAAA A A C GAGGGAACGGAAGGGAGGAGAGGGGGAGAAGAGAAAGGAGAA A GAA A GAAGAACCCAGGAGAGGGAAGAAAAGGAACCAAATAG AGAGGACAGAAAGGCCAAAGACGAAAAAAAGGGGCCAAAAAA G G A A G G G G A A G G G G G G G G A A G G A G G CA A A GAAAA A A CA A G A A AAGGGGGGGAAAAAAAAAAGAAGGGAGGGGAAACACGGGGGG G GAAAAGGAGGGAACAAGGGGGAGGGAAGGCCAGGAGAGAAA G GAGGGGGGGGGAAGGGGGGAAGGAAAACCGAGAGAGAAACA GAGGAGGGGAGGAAGAGACCGACAAGAAAAGGGGGGAAGGAA G GAA A A A G G G G GAGAAACCAGGAAAAAGGGAGAGGGAGAGAA G G G GAAAAGGAAAACCGGGGAAGGGGAGCAAAGGAGCAAAGA AAAGACGAAAGAGAGAGGCCAGGAAAGGGAAACAAAAGACCAA G G GAGCACAAAGACGGGGGGCCCAAGGAAGACGGGGC
A ACAAAGGAAAGGGGGGAGACAGAGAAGGACGAAAGGGGAC A GAGAGACGGAAAGGAGGAGGAAGGAAGAGGGGAAGCAAGAG A A C A A A A $\mathcal{A} G A G G G G G G A A G G G G A G G G A A G A A G A A G B A A G B A A$ G G GACCAAGAAGGGAAAGGGGAAGGAAGAAGGACAAGACAGG G GAAAACCAAAAAAGAAACACCGAGGGGAAAGCACACCAGAG A A G G A A A A GA G G CA A A G G G A A A A G G G G G G A A CA A GA GAAAA $A$ GAAA A GA GACAAAGGAAAGGGGGAGAACAAAGCBAAAA GGGG $A G A G G A G G C A G G A G G A C C G A A A G G G A G A G A A A G G A G G G A G A G$ G GAGAAAGAAGGGGGAAGGAGGAAGGGAAGGAAGGAAACAAA GACCGACCAAGGAAGGCCAAAGAGAGAGGGGGGGAAGGGGGG
 G GAGGAGGGGGGAAAAAAGGAGAAGAGGAAAAGGGGAAGGAG C C G GAGGGGGAGAAAGCAGAGGGGAAAAGAGAAAAGGGAGAA G G A A G G A A C C G G G G A A G G G G G G A A G G C C A A A A C C C C G A G G A A G G G G G GAGAAAAAAGAAAGGAAGAAGAGGAAACCCCCCACCC G GAAAGGAAGGGAGCCAAAAAAAAGGGGCAGAAACCCCAAGB
 C C C C G GAA $A \operatorname{GAAACCGGGGGGGGGGAGGAAGAAGGG} G A A A A A G$
 GA $A \operatorname{GA} A A A G G G G A G G G G A G A A A G G A G G G A G G G A A G G A A A G G A$ CATAAGGGGAAACCCCAGGAGACCCCAACAGGGGGAAGAAGA G G G G G A G G G A G G G G G A A A A A A A G G A G A T A A G G G G G G G G C C A A G GAA A GCCAAAAAAACAGAAGGGGGGGGCCGGAGAAAGAGAA GAAAAACCAAAACCGGAAGAAGGACCAGCCGAAAGGGAAAAG A CAG G GA GCCAGGAAAAACCGAAGAAGAGGGGGGAAAAGGTT G GAACCAAAGAAGAAAAACAACAAGGGAAAAAAACCGAGGGA G GAA A G G G G GAAGGGAAAAAAAAAAAAAGAAAAAGAAAGAAA A A G G G G A A G G A A G A A GACAA A A A G GAGAGACC G GAA G G G G G G ACAGGGAGAAAAATGGAGCCAAAGGGCAAAAACCGGCCGGGA GGCAAAAAAAAAAGAAAACAAAGGAGGGGGAGACAGGGTTAA GAAA $A \operatorname{GAAA} A C G G A A G G G G G G A A A T A A C C G G A A A G G G G G G G C A$ AAAAGGAAGGAACCAAGGACGGAGAAGAAGAAGGGGGCAAGG G G GAGGGACCAAAGCGAAGGAAAAAAAAAGAGCAGGGAAGGG A A A A GACCAAGAGAAGAGACGGAGAAGGAAAACCAAAAAGAA A G G G A A C C G G G GA A A A G GAACCAAAAGAGGACGCAAAAAA G G A A A A A A A A A A A A A A GAGAGAAAAAGAAGAGAGGGAAAA G G G G G G TACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAAA A A G GAAGGGAAGAGAAGGAACCGGAAAACCGAGGGGGCAAAA G G G G A A A A G G C A A G A G G A A GAA A G G G GAA G G G G C A A G GAAA A A A A A G GAA A G A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G G A A G G G A A G G A G G A A A G G G G A A A A G G G G G G A A C C A A C C A G A G A C $G G C A G C G A C C G G A G A A G A G G C G G G A C G A G G G G A A A A A G G G G G$
$C \subset C \subset A A C A A G A A A A C C G G A A A A G A A G G G G G G G C C A A G G A A A G$ GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACCAACA GAAA A A GAAAGGGAAAAAGAGAAGCCAGAGGGAGAAGGAACA AAGAAGAGGGGACCAGACGAGGGAGGGGGGAGGAGCACGCAG GAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAGAAAAGAG GAAGGGAAGGAAAAGGCATACACCAAAACCTAGGAGAAAAAA
 C CAGAGGGAAAAGGAACCAAGGACGAGGAAGGGGAGAAACGG A A G G G A G G A A G G G G G G G G A G C C G G G G G G A C A A A A A G A G G G C G GAAAAAAGAAAAATAAAGGGAAGGCAAATTAAAAAAAACCAA A A A A A A GAAACCGACCAAAAAGGGGGAAAGAAAAGGAACCBG A GAGAAATGGAAGAGGACGCACAAAGGAAGTACAAAGGAATT AAACAACCAAAAAAGAAGAGAAGGGGAAAAGGAAAACAAGGG CAGAAGGGAGAAAGAGACAGGGAAGGGGAAGAAAAACCAGCA A A G G G GAAGGGGAGACGGAACCAGGAGAGACCGAAGGGAAAA G GAAAAGGGGCCAATTAAAAGGGGAAAAAAAACCAAAAAAAA GGAACCAAGACACACCACCCGGCCGGGAAGGATTAAAAGGGG A A GAGGAGGAAAGGAAAAGGCCACGGGGAGAAGGACAAAAGG G G G GACGGCAGGGAAAAAGCAGGGGGACACAAGGGACCGGGG G G A A C C C G G GCC G A G G A G A G G A G A A G G GA G G G G G G G G A G G G G AAAACAAACCAACCGGGGAAGGAAGGTTAAAACAAAGGAGAC


 GAAAAAGGGGAAGGGACCAAGGAAAAGGAAGGAAAGGGAAAA CAGAGAAGAGAACACCCGGGGGCCAGAGGGAGGAGACAAAGA GAGGGGAAGGACGGGGCACCAAACGGGGAAAAAAAGGAAGCC A A G GAA $A \operatorname{GGAC} C A A A G T T A A A G G G G A A A G G G A G G C C G G G G A G$ A A A A A A G G G GAACCGGAGCCGGGGAGAAGGAAAAAGGAACAG A G A A A A A A A G G A A A A A A A A A GAGGGAGGGGAAAAAAG GAAAC G G TACCAGGGCCGGAGCCGAAAGGGGACAAGGCCAGAAGAAA $C \subset A A G G A A A C G G A A A G A G G G G G A A G A A T C C G A G G A A A A C A A A$ A A A A A A G G G G A A A A GACCAAGGGGAAAAGACCGGGGGAAAAA G G G G G A C C G A A C G G G G G A G G G G G G G A G A A A C C A C G A A G A A G G
 GGCCGAGGAGAAGGACGAAACGAAAAACGGGACCAGAGGGGA G GACGGGAGAACACGGAACCAAGGGAAAGGGGGAAAAAAAAA AA $\operatorname{A} G A G A G G G G G A A A A A G A A A A A G C C G G C C G G G G A G A G A A A A$ G G A A G G G A A G G A G A G G G G G GAAAAAGAAAAAGGGCAAA G GAA GAGAGAGGAAGAAAAAGAGAGAGAAAGAAGAGAGAAGGAGAG G GAAGGCAAAAGAGGGAAGGCCAAAAGGAAAAGGAAAAAAAA GAAAAGGGAACCAGAAGGACAAAGGGCCGGGGAAAAGGAAGG G G G GAAGGAAAAAGAAGACCAAGGAACCGGAAGGCCCCGGGG $A C A A G G C A A A G G C C A A C C G A G G A A G G G G A C A A G A A A G G A A A G$ C CAA $A \operatorname{AGGGGGA} A A A A A A G G G G G G G A A G A C A A G A A A A A A G G A A$ A A G G A A G G A A A A G G GAGGAGACAAGGGGCCGAAGAACAAGAA C C C C C C T TACCCCCGAGAGAAAAGCAGAAGGAGGGGACAAAA G GCA C GAA $A \mathrm{~A}$ G GAGGGCCAAAGGGAGAAGGCCGAGGAAAGCA GAAGAAGGGGCCAAAAAAAAGGAAAAAAGGAAAATTAAAAGG G GAAAAAAAGGGAAGGAACAAGGAAAGAAGAAAAAAGAGGCA $C \subset G G G G C A G A G G A A A A G G G G G G G A G G G G G A C A A G A A A A G G A G$ G G C C G G G G G G G A G G G G C C A A A G GAGGACAGAACCAAC A A A A A G G G G C A A A G G G G A A A A A A A G G A G G C C G G G G G G A C C A A G G A A G

 G G G A A A G G G G G A A C G G A G G G G A A A GAGGGAAGCCAGAAAA G G A G A CA GAGGAAAGACAAAGGAGAGGAAGTTAAGGAAAAAAAA
 $A C A A G G G G A G C A A G A A C C G G A A G G C A A A G G A A A G A G G G G G A A$

G GAGCCGAACAAGGAAAAAAAAGAGGGGGACACAAAGGAGGA $A G A G A G C G A G G G G G G G G G A G G G G G A A G A C A A A G G A A C C B A G G$ G GAAGCAGAGAGGCGGAAAAAAAGGAGGAAAGACGAGGGAGA ATAAAAACACAGAGGGAGGAAGCCACAAAAAACCAAGGTTGG1 G GAAAA $A \operatorname{A} G \operatorname{AAA} A A G G G A G A A G G A A C C A A A G G G G G G G G G G G G G$ A A G G A T C A C G G G G G G G A A A A A G G G C C G G A G A G A A G G G G A A G G $G G C C A A A A A A G G G G A G G G A A G G G G G G A G G G G A G A G A A A A A G G$ A A A G G GA $A$ A $A G A G G G G G G G G A G G A G G A G A T A C A G G A A A G G A A$ G G A A A A A G A A G G G G G G G GAGGACCGGAACCAACAAAAAAGGA GAAGAAGGACAAAAGGAAACCCGACATTACGACCGGGGAAGA GAAAAGGGAGGAAGAGAAAAAAGGGGGGGGACAAAAGAGAAA A A ACAACAAGGGCAAACAAAAAGGAAAAGAAAAGA GAGAGAA A A A A C C G G A C G A T TAAAA A A AACCAAGAGGCGGGGAAAAAAA A A A A C CAAACGAAGCCAAGAAACCGGAACAACAAAAGGGGAG AACCAACAAAAAAAAAAAAAGGAAAAAAGGAAGGAAGAAGAC G G G G G GCCACAGGAAAGGGGCCAAAGGGAAAGAAGGAAGGGG G GCCGGGAAAAAGGGGAGGGGAGGAAAGAGACCAAAG
G G G G A A C G A G G G G A A G G G G C C G A G GAAGGAATACCAGGGAG AAGAGGGGAAAAAGAGAAAAAAACAAAGGAGAAACCGGACAA
 $C C G G A A G A G G G A A A G G G G G G C A G G G G A A G G A A A A A A A A A G G G$
 G G G GAA $A \operatorname{GCAAAAAAACAAAAAAAAGAGAGGGACAAAGCGGCC}$ A A A C A C A A G GCCA GACAAGGGGAGGGGAGACCCCAACAGGGG G GCCAAAACAGGGGGAAGGGGGAAGGAATTGGAAAACCAAGB A A G G G G G G G GCC G G A A GAG GAGGAAGAAAGGGAGAGCCAGAC A GAAAA A A G G G A G GAAA $A \operatorname{A} G A T T G G A A A A G G A A G G A G G G C C G G$
 C CAGGGCCGGAAAAAGGGAAAAGGGAGAACAAAAAAGAGGGG A A G G G G A G A G A G G G G G A A A A G G A A G G G G G C G GAGCAAA G G A A ACAGAAAAGGCACAGGAAGAAAAGGCGGAGAGGAGAAGAGAG A G GAGGGGGGACGGAAAGCCCCAGCCACGGGGGGCCGGGGCA G GCAGAACAAGAGAGGGGAAGGACGGAAAGGGGGGGAAAAAG A GAACCGGAGACGGAAGGAGGAGGACAGAGAAAACCAAGGCC C C A A A A A A G GAAAA $A \operatorname{AGCCAGGGAGGAGACCGGAAAGGGAAGA}$ A GCC G G A A G A A A A GAAA A A GCCGGGGAAGGAACAA GGGAAG G A A G G G G A C A A A G G G GAA A GAAGGGGGAAAGAAACGAAGAAAA A A A A G GA G G GAAGGAAACGGAAAAGAGGAAGGGGAAAAAGGG G G A A $\mathcal{A} G A G G G G G G G A G G G G G G G C C G A A C A G G G G G G B A G A G A G$ A A A A G A A G G G G G G A A G G A A A A A G G G G G GAAC CA A A A GAC G G A GAAACCTAAAGAGGCCGGGGAAGGAACGGGAAGAGGAGAGAC G G A A G G G G G A A G A A G G G G A A G G A G A A G G G G G G G G G A A A G G G A A A G G G GAAGAGGGAAGGAAACCGGCCAAAACCAGGGAAGAAA GAGGAAAGAAAAGAAGAAAAGGTTAAGGAAAGAAAAGGA GAA $A C G G G G G G A A A A A G G G A G C A A G A A G G G G A G G G A G G G G G A G A A$
 GAAGGAGGCCAGAAAAGGAAAAGGCAAGAAAAAGAGGGGGAT G G G G G G A A G G G A T T A A C CAGGGAAACAAAAGGGAA GAA GAA G CAAGGGGGAAGGGGAAGGCCCCAGAGAAAACACAGAGAAAGG
 G G A A A A G G A G A G G G G A G G G GAC G G A A A G G G A A A A A A G G A A G G $A C C A G G G A C C G G G A G G G A A G A G G G A G A A A A C C G G G G A A G G G G$ A G A A G G G G G G G A A G G A G A A A A A G A A A C C A A A A G G G G A A G G A A AAGGAAGAGAGAAAGGGGAAAAAGAGGGAAAAGAGAGAGGAG A GTTAAGGAAAAGGGAGGAAAGAAGGAGGAGGAAAAAAGGAA
 A A A A G A A A A A G G A A G G A GAAAA A A G G G G G GAGAA G G GAACA $\mathcal{A}$ G G G A C A G A A A G G G G A G A A G G G G G G A A G G G G CA G G C A G G G A C A $T \mathrm{~T} T \mathrm{~T} G \mathrm{GAGCCACCAAGAACCGGGGAAAGCCGGGGAACCAAAA}$

G G G G G G G G ACGGGAGCGACCAGAAAGGAGAAAAAAACACAAA $G G C A A C G A A C G G G G G A A A A A A A A A A A G G G G G G G G A A A A A A G G$
 A A G GAGAGCAAAAAAGAGGGGGGGAAAGAGAGGAAACCACAA G G G GAAAACCGGCCAAGGGAGAAAAAGAGAAAAAGGAAAGGG G GAA $A \operatorname{G} G A G G C G A A A A C C C G A A G G G G A A G G A A A G A G A G G A G G$
 GGGGAGGACACAAAAACAAGCAGAGAAAGAAATTGGGGAAAA G G G G A A G G A A A A G A GACAGGCCGGCCGGAGACAAACAACAAA GAAAGGAAAAGGAAAGAGGGAGGGGGAATTGGACCAAAAAAG ACGGAAGAAGGGTTGGCCGGAAAAGAGAAAGGGATTCCAAGA
 C CAAAGAAGGGGAAAAAACCGGAAAGAAAAAAAAAGAAAAAA T T A A A A A A A A A GCCAACAGGGGCCGGGGGAGGGGGGCCACAG ATAAAGAAAAGGACGGGGAGCCAAAAGGAGACGACAGAGGAA AAGGAGGGGAGAAAGAAAAAAAGAAAAAAGAGCCAGAAGAAA GACCAGAAAGAGAGGGGGGGCCAAAGTAAAGGACAAGAAAGB GAAAAAACGGAAAAAACAGGGGGGGGAGGGCGAGGGCCCAAA GGGGGGCCCCAAAGAGAAAAAAAAGAAGAAGGAAGGGGAAAG G A A A A A G G A A A A A G A A A A G G T T G G G G G A A A G G A A A A G G G G G A GAAAGAGGGGAAAGCCGGAGCAGGCAGGAAGAGAAAAGAGAA G G G GAACCGGCCAAAACCCCCCGGCCCCGGCCAAGGAAGGAA AACCGGAAAGAAAAGGAGGGAAAAAAAGAAGGGGAAACAGAA A GAGGAAAGGCCAAAAAAGGAAAAGGAAAAGGGGGGGAAAAA $A G G G A A G A A G G G A G C C A A G G G G G G A A G G G G G A G G G G A A A G G G$ AAAGGAAACGAGAGGGAGAGGAAGAGAAAGAAAAAAAAAAAG G G GAA A A C C G G G G GAGGGAGCCAAGGGGAAAAAACCTXAAGG G GAACCGAGGGAGGAGAGAGAAGGAAGAAGCAAGAGAGAAGG $A G G A G A G G A A A A G G G G T T G A G G A A G A A G C A A G G G G G G G A C B G$ AAGGGGAAAGAAGGAAGGGGAAGGAGGGAAACGGAGAAGAGA $G G C A G G G A A A A A G G G A A A A A A G G G G G G G G A G G A A G G A G C C G G$ GAGGAAGGGGGGGGAAGGAAGGGGGGAACCCCGGGGGGGGAA
 A A G GCCGGGGGGGGAAGGAGAGAAAGAAGGGAGGAAGEGGAA G GCCAAGGGAAAAAAAAAAAGGACGGAAGGGGAAAAGAAACC G G G G G G A A A G A GCA $\mathrm{A} A \mathrm{~A}$ GAAAGGGGAAAGAGGAAACAAAAGGA G G GAGGGGGGAAGGGGAAAAGGAAGAGGAGAAGGGGAAAGGA A GAA $A \operatorname{GA} A G G G A A G C A G A A G G A G G A A G G C C G G C C A A G G G G G A$ A A G G A A A G A G G A G G GAA A A A C C G G G G G CA G CAA A G GA G G A G A
 AAGAGACCGGAGGGAAGAAAACCCGGAGGGCAAGGAGGAGAC A A A A G G A A G A A G G G A G G G G G A A A G G G A A A G A A G A G A G G G G A A AAGGAAGACAGGAAAGAAGGGGAAGGGGACGCGCAACCAAAA
 T T G G G G G A G G A A G G G G G G A A A G C C A C A G G G G G G A C C G G G G G A C C G G A GAAAGCCGAGGAACCGGAAAAAGAAACGAGAGACCGG G G T TAACCGAAAGGAAGGGGAAAAGACAGGAAAAAAGGGGCC A A GA A A A TAAGGAAGGGAGAAGAAAAGGAAGGAACCAAAAAA AA G GAA A GAAAAAAGGGGCCGAGACCAAAAAAGAAGCAAGAA $A G G G G A G G G G A A G G G G A A G A G G G G G G G A G G C C A G G G G A G G G G$ TACA $\mathrm{C} A \mathrm{~A}$ CAAAAGAGGGAGGGAAGGGAGAAGGGGGAAAGAGAC AACCGGAGCAAGAGAAAAAAGGAGAGGGGGGGAAGAACAGAA G G G G A A A A G G G A G G G A C A A C G G G G G G A G G G G G A G C C G G C C G G G GAA A G G GCCGGGGGGAGAGGAACGGAAGGCAAAGGCAAAGG AACCAAAGAAGAAAAGAAAACCGAAAGAGAGGGGCAGBCAAA G G A A A A A A G G A G A A C C G G G GAC G G G G G G C C A A C G G G C C G G G G
 A G G G C A A A G G G G A A G G G G G A A A G G C CA A GA GAA A A G G G A A A $G$ GAGGAGGGGGGGAAAAGAAAGGAAAGAGACGGAGAAACAAGA

GAAGGAGGCCAAAAAACCAGACAAGGAAGGCCAAACAAGGGA GAACGGGCAAGGAAAAAAAGAGCAAAGAAGGAAAGGAAAAAA G GAACCACGGAAAAAAAAGGAAGGGGAAAAGGACAAGGAGAA AAAAGGGGAAAAAAAGGGGAAAAAGAGGTTGGAAAAAAAAGA A GAAAGAGGGGAAGAAGGAAGGAGGGGGAAAAAAAAAAAAGA G G G G G GAA $A \operatorname{GA} A G A C C A A C C G G C C A G C C A A G A G A G G G C A C G G$ A A A A A A G G A G G G A A G G A GAAAAAAGGGCGAAGGAAACAAGGG A GAG $A \operatorname{AA} A G G G C A G A G C C G G A A G A G G A A G G G G G G G A A G A G G G$
 G G G G GAAAAAAGGGGGAAAAGGAAAAAAAAGGAAAAAAGGAG A A A A G A A A A GA GAACAAGAAAGGAGGAAAGAGGGGGAAGGAA A A A A A G GAGGCCGGAAAAGGGAAAGGGGGGGGGGAAAAAAGA AACCAAACAGGAGAAGAGGGGGGGCAAGAAAACCAACCGACC G GACGGGAGGAAACGGGGGGAAAGAAAGAAACAACCCCGGAG AA $A$ ACCGGAGGAGGAAGGGGAAGGGGAAAAAAGAGGAAAGCC A G GCAAAATAAGAACGGGCACCGAAAAGAGAAAGGGGACCGG A A A C G GCCAAGGAGAGAGGGAGAGACAAACCCAAGGA
G G G G G A A A G C C A A G G G G G A A G G A G G T A G G G G A A A A G G G G G G A A A GAGAGAAAAGAGAGGGAGGGGGGAAACAAAGACGGAGAA A A G G C A G G G G G G A A $\mathcal{A} A G G G G G G A A C C G G A A G A A A A A G A A A A A$ A A A A A GAGGGGAGGGGCCGAGGAAAAGGAGGAAGAGAGAAGG A A A A A A G A GAGGAGGAGGACCCAGGGGGAGAAAAAAAGAAAA A G G G G G G G CAACGAAAGGGGTTGGGGAGCCAAGAAAACAAGA A $G G G A A G A G A A G G A A A G G G G G G G G A G G G A A A A A A G G A A A A A G$ A G A G G A G G A A G A G A A A A A G G G G A A A G G GAAAA A G G GAAAA A A G GAGACCGGGGGAGGAAAAGGAGAGGGAGGGAAGAAAGAAACC G G G G G GAAAAACGAAAAGACAAAAGGAAGAAGCAGGCCAAGA
 A A G G G G G G G G A A G A G G A A C C G GCC G GAAAAAA AA G G G GAAC C G G G A G G G G T T G GCC $C$ G G G G G G G G A A A A G GAAC A A A A A A A A G G G G G G G G A A A A G G A GAA $A \operatorname{AGCCGGCAAAGGGACAAAGGACGGACAA}$ GAGACAAAGGGGAAGGGGAAAAGGAAAGAAGGACCAGGAAAG GAAGAAGGGAGAGGGGGGAAGAGGCCAAGAGAAAGAGAAAAA $G G C C A A A G G G A A A A A A A A G G A A A A G G G A C A A G G G A G G G A A G G$ A GACAGGGAAAGCCAGAGAAAAGAGAAACCAAGGCACAGGAA CACAA C A G G GAGAAAAAGGGAGGATGGAGCCCCGGGGAAAAAA A A GAGAAGGGAAAGGGGGAGGAAAAAAAAAAGGCAGGAAGAG GAGGGGCAAAAAGGAAGGCCAAGGAGGGGGAAAGAAGGCGBA ACCCCCCCAAAACCAAAAAGGAAAAAGGGGGGATAGCCAAAC $G G C C A A A A A A G G G G A A A G G G G G G G A A G G G A A A A G G A A G G G G G$ $G G A G A G A A G A C A G G A G G G G G A A G A G A A A G G G G A G A G G G T T A A$ ACGACAAAAGACGAAGAAGGGGGGAAGGGGGGCCGGCAAAAG $A C G G G G A G G G A G A G A G G A G A G A G G C C A A A A A A G G G A A A G G G G$ GAGGAAGGGGAACCGGAAGGACGGACAAAGAAGAAAAGAACA $A G A C A A A G A G A G A A G A C A A A G G C C A G A G G A A G A G G A A C A G A G$ A C G A G A C C G G T T G G A A G G G G G G G C C A G G G G C C C C A A C C A A G G A GCCAAGAGAGGAAGGAGAAGCAAGAGAAATTCCGGAAGGAA AAAAAGAGAGAGGGCACCAAGGACAGAGAAAAAAAGAACACA CCGAGAGGACAGAGAGAAAACCAAAAAAGAACGGAAGGGGTA A A A G A A A A A A G G G G A G G G A A C A A A A A A A G GAAAA A G G C C G G G G G G G G G G G G G G A A G G G G A A C CAA A GCCAAAAAAAAGGGAAACC G GAAAAGGAAGGGGAAAAGGGGAAGGGGGGGGAGGAAAAAAA G GAA A A A GCCAAAAGGGGTTGGACAAGGAAAACCCCGGAAAA AAACAAGGCCAAGGCCCCAGAGCACCAGCCAAAGAGAAGGGA A A A A G G A G A G G A G G G G G G G G A A A TAAAAAACAA AAA A G G GAA A A A G C A A A A A G G G GAA $A \operatorname{GGGAAAGGGGGGGAGGGAGGGA} G G A A$ G G G G G A C A A G A G A G G G G G A A G G G G A G A A G A G G A A G A A G G G G G $C \subset A G A C A A G G A A C A C C A C G G A G A G A A G C A G A A G G C A A A G G G G$ G G G G G G G G G G GAAA A A CAAA A GAGAGGAGGGGGAGGAA G GAA

A A G GCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGAAGG
 A GAGACAGAAGGGGAAGGGGAAGGAAAAGGGGGGGGGAAGAA A G GA $\operatorname{A}$ GAGGAAAGGAAGGGGAGCCAAGGGGAAGGAGGAGCGG AGCAACGGGGAAAGACAGAACCAAGAAGAAGAGAACAAAAGA A A G GAA $A \operatorname{GGG} \operatorname{GA} A G G C C A G C C G G C C A A G G A A G G G G A C A G G G G A$
 G G G G G G GAGGACAAGGGAGGAAAACAGGCAAGAACCGGAGAG A G G A A C G A A A G G G G C C G G C C C C A A G G G G C C G A A G G G A G G G A A GAAGGGCCAGGAACAGAGAAGAAGCCGGGGGAGGGAAGCAAA GAGGCCGGGGAACCCAGAGGGAGAAGAAAAAAAAGGGGGGAA A A G A A A A A A A G G G A A G A A A ACCCAAAAAGGCCAAAAAGAAAG $G G C C G A C C A A G G G G A A A A A A A A A A A A A A A A A A C C C G A A G G A A$ A A G G G G A A A A G GC C A A G G G A G G A GAACCCAGGGACC A A GAA A A A T T G G GCGGGGGGGAGAAAAGCCAGGGAAGGACCACACAGA A GAGAGAAAAAAAGAACCAGGGAAAAGGGAGGAAGATTAACC A A G G G G G G G G A A G G GAGGGGAAGGCCAAGGGGAAGGAAAAAA
 G G G G G GAC G G G GAA A G GAACGGAAGGGGCCGAGACCAGAAGAG G G A A A A G A C G G G G G C A G G G GAA $A \operatorname{GCC} C A A C C A A A B A G C G G G G G$ AGACGAAAAAAAAGAAGAAGGAGGGGAGACATCAGAGAAAAA
 $A G G G A A A C A A G G G G G G A G A G G G A A G A G A G A A G G A G G A G A A A G$ A G G A G A G A A GCCCCAAAGAAACAAGAAAAAGGGGAAAAGGCC A A G G G G A A A A G A A G G G G G G GA GAC GAACGGAAA AACAGAAAA G GAGACCCAGGGGGAAACAGAGGAGGGGGAAGACGAGAAAGA G GCCAGAAGGGACCAGGGGGCCGAGGGGCAAAAGGAGAAACA G G A A G G A $\mathcal{A} G G G G A A G G G G G G C C G G G G G G A G G A G G G A G A A A A A$ A A G G G G G A A C G A G G G G A G G A A A G G A A G GAA A GAAA A GA GAAA GGGAGAAAGGACAAAAAGAGAGAGAACAAGAGGGGGGGAAGAG A A C C G G A A A A A A G G G G G G C C G G G G A A G G A A G G G G A A G G A A A A AA G GAAAAAAGGAAAAGGAAGGCCGGAAAAAAGGAAAAAAGG G G G G G GAA A G A A A A G G A A G GAA $A \operatorname{GAAAGGGGAAAAAAAAGGGG}$ $G G A A A A A A G G G G G G C C A A G G A A A A A A G G G G G A A A A A A G A G G A$ A G G G G A G A GAGGAAAACCAAGAGGACGAGGGGGAAAGGAA GA GACAAGAGCAGGCAAGCCAAAAGAGGGAGAAGAGGAGAAAAB A GCCGGAGAAGGGGAGAAAGGAAGGAAAGGGGAAGGAAGAAG CAAAAAAAAAGAGAGGAACAAGGGCCGGAAGGGAGAAAAAAG $G G A A A G A A G G G A G G A A G G C A G G G G G A A G A A A A G A G A G G A A G B$
 AAAAGGCCAAGGGGGAAAGACCAGGAAGCAGGGGAGGAAAAC A A A G A A A A A G A A G G A A A G G A A G A A A G A A A A A A G G G G A A A G G G $A G G G G A A G G G A A G G A A A A A A G G C C A A A A G G A A G G A A A G A A G G$ AAAGGGAAAAAAAGAAAGGGGGAGCAGAAGAAGGBAGAGACC A A G G G G G G C C G G A A C C G G G G C C A A C C G A G G G G G A A A A A G G G G A A A A A A A A G G G G G G A A A A GAGGCAAAGGGGAGAA G G G G G G A A A A G A A A A A A G G T T G G G G A A G G A A A A A G A G G G G A G G G A C C G A G G C CAA A G GAGGGACCGGAGCCAAGAGAGGAAGGGGAAGAAAAA G G G GAAAACCAACCAAGGACGGACGAGGACAGAAAAAGAAGG G G G G A G T T A G G GC C A A G G A A C C G G C A A C G GAAACA G G G G G A A G GAGAAAAAGCAGGAGCCGAGGAGCCAAGGAAGGAGACAGAG GAAGGACCAAAGGGGAGGAACCGAGAAACCAAGAGGAABAAA G G A A G A G G A C G G A A G G G A G A G G G G G A G G A G A G A A G A G A A G G G AAGGAGGGAGGGGGAAGAGGGGAGAAGGCCAGGGCCCCGGGA
 GAGGGAAAGGCCGGGAAGGAGAGAAGGGGGGGCCGGAAAAAA A A G G C C G G G G A A G G A A G G G G C C A A G G G G A A G G G G A A A A G G G G G G A A C C G G C C A A A A A A G G G G G G A A G G GAGGAACCAAAAAAAA G GAAGGGGGGGGAAGGGGAAGGAAAACCAAAAGACCAGGGCA
$C \subset G G A A G G A G G G G G C C A A A G C C G G G G A A G A A A G A A G G G G G C C$
 GAGAGGGGAAACGGAAGGGGAAAACCGGGGAAAGACAAGGAG AAGAGGCAACGAGGGGACAGGAAGAAACGGAAGGGGAGAGCC A A G GAGGGGGAAAAGGGAGGGGAAAGGAGGAAAAA GAAAGAA
 A A A A A A G G G G A A G G G G C C G G G G A A A A A A G G G G A G G G G G A G A G A GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G A A G G A G G G G A A G G G A A G A G G C A C A G A A A G G C C$ ACAAAAGGAAACAGAAAAGGCCAAAAGAAAGGAAGGAACAAA AAAAGGAACCGGCCAAAAAAGGAAAAAAAAAACCAAGCAACC GAGGGAAAGGGGAGGAAAAAGGAAGGAGGGGGGGCCAAGACC GACACAACGAAGGGAGAGGAGGAACCGGGGGGGGCCAAGGGA GA $\operatorname{G} G A A A G A A A A A A G A G G G A A A G A A A G G G G C C G G G G A C B G G A$ G G G GA GAGAAAGCCGGAGAAAAAGGAGAGAAAGAGGAA GA GA GAAGGAAAAAAAAAGACCCCAAGAGAAGGAAAGGAAAAAAGA A A A A G GAAA A A A A GAAAAGGAAGAGAAACAGGCCGGGGGGTT G GAAAAA A $A \operatorname{A} G A A A A A A A A A G G G G G A G G G G G G A A C A A G C$
C G G G G A A G G A A A A A A G G G G G G G G A A A A A A G G GAAA A C A G G G GACCCCAAGGCAACAGGACAAAGGGGAAAAAAGGGGGGGGGG G G A A G G A G A G G G A A G G A A A A G G A G A A G GA GAAA A G G G G A A T T A A A GAAAAAAAAAAGCAAAGAAAAGAAGGAACAGAAAAGAGG GACAGAAGGGGGGGAAAAAAAAAAGGCCAAAGCCGAGGACCA
 A A G A A G A A A A G G G G G A G A G G G G A G G A G G A A G G G A G G C A G A G A ATAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCGAGAGAAC A G G GAA A G G G A GAAAAAGCAGGCCGGAGGGAAAGAAAGAGGG
 GAGGAAGGAAGAGAAGCCAGGAGAAAAGCCGGAAGGGGAAAA GAGGAGGGAGAGGGGGAAACGACCAGGGAAAACCGGGGCCTA AGGGCCAGGGGGGAGGAAACAAGGGGGGGGAAGAGGAAAAAC A A A G G A A G A A A A G G G A A A A G A A A A A A GAAAAACCC GAA G GAA CAGGACCCGGGGAAGGGGACAGGAAGGGAAAGGGGAAAAAGA ACAGAAACGGAGAACAAAAAGGGGGGGGAGCCGGAGGGGGCC C CAGAAAGGAGAAGCAGGGGAAAAGACAAGAGAACAGGAAAA C C G G A A G G G G G A A A A G G G A A G G C C G G A C A G G G G G A G G G A A A $G$ G G G G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A}$ GACGGCCGACAGGAAAAGGAACAAA G GACAAGGGGGAAGGAGGGGGGGAGCAAAACCGGGAGGAGCC CAAACCAGCAACCAGGAAAGGACAGGGGGGAAAAGGBAACAA G G A A G GACGGCCCCCCGGAAGGGGGGAAAAAAAAAAAAAAGG G G G A A A A A A GACCAAGCCAAGGAAAGGGAGGGGGAAAA GAAA AAAAGAGAGAAGAAAAGGAAGGAAGGGGGGAAGGAAGAAAAA
 AAAAAGGGAAAGGGAAGGAGGGCCTAAAGGAGACCCAAGAAA AACAGGGACCACGGGGAGAAGAAAGGGGGAGGAGGAAGAAGG G GAACCAAAAGAGGAGCAGAAACCGGAACCAAAGAAAGGGGA
 AC GAG GAACCAGAGAACAGGGAGGCCAGAGGGGGGGAACAAA A GAA A A GAAAGGGGGGAGAGGACCGGAACCAAGGAAGAAAAG A G G GAAAGGGTTAAAGGGGGGGAAAGCCGGACGGAAGAAGAA A A G G G A A GAC A G GAACCAAGGTTAGGGGGAAGAAAAAAAGGGG GAAACAAGAGACGAGACAGGAGCCGGAACCCAGAGAAGAGAA AA $A G A A A A A A G A G G G A A A A A A A G G A G A G G G G G G G A A G G A G A A$ A A A A G G A A $\mathcal{A} G G C G G G G G G A A G A G G G G A A G A G G G G A A G A A G A A$ AAGGCCGGGGCCGGAGAATAAAAAGGGAGGGGGGGGGGAAGA $A G G G C A A G G G A A G G G G G G A A C C G G A A G A A G A A A G A G G G G G G G$ A A G G G GAAAGCCCAGAGGAAAAGGAAAAGGAAGGGAGGGGGA AACAAGGAAGAGAATACCAGTTAGCCCAAGGGGAAGAAAAAA AC GAGAAAAGAAAAAGCCGAAAAGAAGGGGGGGAGACAAAAA $G G G A G A A A A G A G A G A G G A G G A A A A G G G G A A G G A G G G G G C C G G$

AAGGCCGGAGAAGGAGAGAAAAAGGAGAGGAACCAAACACCC G G G G G G A A G G A A A A C C A A G G G G A A G G A A A A G G A TAA A A G C T A A A G A A A G A A GAACACGGAGAAAGAAGGATAAAAAACC G GAAA A G GAAA A GCCGGAAAACCAAACGACCGGGGAGCAAAGGGGGA GAGAGGGGAGAAGGAAGGAAGGAAAAGGGACAAAAGAAAAAA GCAGGAAGGGAAGGAAGGAGCCTAGGCAAGGGACACGAGGAG AAAGGGCCAAAACCGACCGGGGAAGGAGAACCGAGGGGGGCC G G G GCCGGGGAGCAGGAGAAAAAAGGAAAAAAGAGGGGAGAG ACAACCGGGGGGACATGGAGCACACGCCGGCAGGAAAAAAGG AAGGAACAGAAAGGAAGGAAACAGGAGGGGTTGGGGAGGGGG
 A A G A A A CAGAGGCCAAGGGGAAAAGAGAAAGCCCGAACAAAA A A A C G A A G G G G G G A A C A A A G G G G G A GCCGGACCAAAGACA G C GACAACGAAGGCAACCAAGGGGAAAAGAGGGAGAAGABAGGG G GCCGGGGAAAAGACAGGAAGGACGCCAAGGAAAAAAAGGCA $C \subset C C G A A A A A G A C C C G C G A A G G C C G G C C C A G G G A A G A A A G A A$ C C A A A G G G A A G GAA $A \operatorname{G} G A G G G G A A A A G G A A G A G G G G A A A C C C$
 $G G A A G G G A A A A A G G A A G G G G G A G G G A G A G G G G A G A G A A G G G G$ C C G G C A G G C A G G A A G A G A G G G G G G G G G A G G A A G G A A G G G G A A G GAAAAAGAAGGGGAGAGAGGAAGAAGGTTGGGGCCGGAGAA GAGAGGGGAAGGATAAGGAAGGAAGGAGAGACAAAGGGAAAA A A G G A A A A A A A A A A A A A A G GAAAA G GAAAAA AAAAAAA G GAA $G G A A G G A G C C G A G G A A A G A A A G G G G A A A A G G G C C G G A A G G C C$ A A G GAA $A \operatorname{GCCA} \mathrm{C}$ GAAAACCAAAAAAAAGAAACCGGGGAAGGGG A A A A A GAGGGGGAAAGCCGACCAGAGAAGGAGGGAAAAGAAA A A G G G GAAAAAGGAAAGACCGGGGAAGGGGAAAGACAAGAAA AACCGGAACCAAGGAAAACCCACCGGAAAAGGAAGACCCCAC GAGGAAAAAAGAAGGGGGGAGGAACCAAGGGGCCGGAAGAAA A A G G A A A A $\mathcal{A} G A A G G G G G G A A G G G G A A G G A A G G G G G G G G A A A A$
 AACCGGGGAAAAGGCCAAGGAAGGCCAAGGGGGGACAGAGAG G G G G A A A A A A C C G GACAGGAAAAGGGCAGGGGGAGETAAC G G G G G G A G G A A G G GAA $A \operatorname{G} \operatorname{A} A A G G A A A A G G G A A G A A A A G G A A C C C C$
 ACCGCCAAAAGAGAACGGAGGGCAGAAGCCGGGGAGAGAAGA
 AACAGAGGAGAGGAGGAAGGAAGGAGAAGGGAGGGGAAAGAA
 G G G G A A A A C C G GC C G G G G A A G G G G G G G G G G A A C C G G G G A A C $C$ G G A A A A G G A A A A G G G G G G G G G G A A A A A A A A A A G GAAAAACAA G G C C G G G G G G G G C C A A A A A A A G G G G G G G G G G G G A A A A A A $\mathcal{A} G G G$ G G G G G G G G G G A A G GAAAAGGAAAAGGAAAAGGAAAAGG G GAA A A A A G G G G G G G G G G G G A A A A A A A A G GAAAAAAAAAAAAA A $A$ A $G G$ G G G G A A G G G G G G G G G G A A A A A A A A A A A G G G G A A A A C C G G A A G G G G A A C C G G A A G GCCAAA A G G G GCC G G C C G G G G G G A A A A G G C C G G G GAA $A \operatorname{GAAACGGGGAAGGAAAAAAGGCCGGAAAAGAAAAA}$ AAAAGGAAAAGGAAAAAACCAAAAGGGGGACACAGAACAAAA GAGGGGAGAAAAAAGGAGCAAAGGGGGGAAAAAAGAACAGGG A A A A A CAAA A G GACTTGGAATTCCAAAAGGGGAACGCAAGAC $A G C A A G G G G G G G G G A A A A G G A T G G G A G G A A G A G G G G G G A A A A$ A A G G G GAA A A G GA A G GAA $A \operatorname{AGGGAAAACCAAGGAGAAGGAGAG}$ A G G G A G A A A A A G G A A A C CAA $A \operatorname{AGAAAAGGGGAAGGGGAAAAAA}$ G GAGGGAAGGACCCGGAAAGGGCAGAGAGGGAGGCCGAGAAC $C \subset C A C C A A G G C A G G G A A A C C C C G G A A A A A A A A G A G G G G A A G G$ A G G G G A G G A A C C A G G C C C A A G G G G A A A A A A G G G A GA G G A G G G G GAGAAAAGGGATTAGACGAGAGGCAAGAACAAAGBAGCCGG A A A GCAAAAGAGAAGGCCCCGGACGGGAGGAGGGAAAAACCC G G A T T T G G A A GAAGGGGAGGCCGGGAGGGGAAAAACAGAAAA

C C G GAA A A ACAAGGAGAAGGAAAAAAACGGAACCAAGAAAAA AACCGGAAAAAAAAAAGGAAGGCAAAGGGGAACCAAGAGAGA GAGGAAAAGGCCGAAAAGAGAAGGGGGGAGAACCGGAAAAAG AAAAAAAACCGAAGAGACCCAAAAGGGGGGCCAAAGAGAAGG G GAGGAGGGGAAGGAGAGGGAAAAAAGGGAGGAAA GAA GAAA G G G G G GA G A G G G C C A G A G A A A GAGAGTAGAAAAACCGAAGAA G G A A A GAAACAAGGGAGGGAAAAGAGGGGGAAGGAAAAAAAG G GAAGAAGGGAACCGGAGGGAACAAGAAGGAAAGGACAAAAG $A G G G G G G G G G A A A A G A G G A G A A A C G A G A A G A A G G G G G A A A A G$ GAACAACCGAGAAAGGGGGAAGAGAAAAGAAGACGGGGAAAG G GAGGGGGGGGAAAAAGAAGGAGGGAAAAAACAGGAGAAGGG G GCCGGAAGGGGAGGAGGTXAACCAGGGACGAAGACGGAGAA A A G A A A A A A G A A G G G G G G G A G A G G G G G G G A C C G GCC C A A G G A G G G GAACAGAGGCAAAAAGGAGGCAAGAAGAGAGAAGAAAAG A GAA $\operatorname{A} G A G A G A C G G G A G A A G G A A A G G A G G G A A G G A A G G A A G G$ A G G GAA A GAAAAGAGGAAAGAGGGAGAGAAGGAAGAACAAGA GAACAGAAAGCCACGGAAAAAACCAAAGGAGGGGAGG
G G GCCAAGAGGGGAGGAGGCCCAGAAAGAACGGAAAAGGCC G GAGAAAAGACCGGGGAAGGCCGGAAGAGGCAAGAAGAAGAA A A A $\operatorname{A} A A G G G G A A G G G G G G A A C C G G A A G G G G G G G G G G G G B A A A$ AAAAGGGGGGAAAAGGTTAAAAAAAACCGGGGGGAAAAGAAA A A A A G G G G A A A A C C A A G G G G G G A A G GCC G G G GAACC G GAAAA G GAAGGAGCCAGAACAAAAGACGGCCCACAAAGGGGGGAAGA
 GAAGAGGGAAGAGGGGAAAGAAGGAGGGAGGGGAAAGGCCCC
 A GAAGAAGCAAAAGGGAGGAGGAAAAAAGGCAACAAGGGGCC AACACCGGGAGGAGAAAAGGAAGGGGCCAAGGAGAGGGAAAA GACAA $A$ A A A GAGGAAAAAAGGCCGGGAAAGAGAAGCGACAGAG G GAAAGGGGGGAGGAGAACCGAGGAAGGACGACCAGACAGAG G A A A G G G A C C G A A G G G G G G G T T A A C G A A A G A A G A A A A C G A A G A GAGAGAAGAAGAGAAAAAAAGGAAGGAAGAAGAAACCAAAA
 C C C C A G G G A G G G C C G G G G G A A G G A A A A G G A A G G A C A G A A C G G ACAGGACCAGGGGGCAAAGGGGCAGAAGAAGGAGAGAATXGA A A GA $\operatorname{A} G C \subset A A A G G G G C G G G G G G C C G G C A G G A A G A A A G A C C A G$ A A A A G G A G G G G A G A A G A G G G G G A A C C G G G A G G G G G G G G A G A A G GAGAAAAGAAAGGAAGCGAAGAAAAAAGGAGGGGAAAAAGA G G G A A A A G G GCCA G GAATAAGAAAAAGAAGGACCGGCA GA GA C CAAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A A A A A G G G A A A A G A C A A G G G A G G G G A A G C G G$ G G A A A C G G A G C CAAAAAGGAGCCCAAAGCAGGCCCCGGGGGG G GAA $A \operatorname{GCCA} A A G A A G A G G C C A A G G A A G G A A A G A G G G A A G G C C$ G G G GAGACAAGACCAGGAAAGGGAAAAGACGGAGGGCAAAAG $A C G G A A A A G G A G A A G A G G C C G G A A A A A C A A A A G G G G G B A G A A$ $G C \subset A A G A A C C C C A A A A G G G G A A A A G G G G G G A A G G G G A A G G G G$ A A A A C C G G G G A A G G G G G GCCAAAAAAAGGGGAAAA GGGAAA G G A A A A G GAAAA $A \operatorname{ACC} G \mathrm{G}$ GAAAACCGGAAAAAAGGAAAAGGGGCC G G A A A A G G G G G G A A G G G G G G G G T T G G A A G G G G A A G G C C A A G G G GAA A GAAAGAGAACCAGGGGGGGAGAAAACCCAGGGAAAGG
 AA $A G A C G G A A G G G G G G A A G A A A A G C A G G G G C C G A A A A A G G A A$ AA $A G G G G A A A A A G A A G G G A G G A G A G G A A G A A G G A A A A A A A$ A A C C C C G A G G G G G G A A A A C C C CAAAGCC GAGGTTAAAAAAAA AACCAGAAGGAACAAACAGGAAAAAGGAGGGGAAAGAGCAGG G GACGGGGACCAGAAAAAAGGGAGCCAAGAAGAAAAAAGAGG A GAGAGAGAGAACCAAGGAAGGAAGGAAGAAAAAGGGGAAAA

 $G G A A A A A C A G A G A G A A G A G G G G C C A G G G A A G G A G A A G G A G A G$

G GAGACGGGGAGAAGGAGGGCAAGAGAAAAAAGGAAGGGGGA G GAGAGAAACAAGAGAAAAAGGGGGGCCAACGAGAGGGAGAG A A G G G GCAAAAAAGGAGGCCAAGGGAAGAAGGAAGACAAAAA G G G GAA A ACCCCAAGAAAAGAGAACCGGACGGAGGAGAAAGA AA $A G G A G G A A A A A A A A A A G G C C G G G G A A A G A G A G G G A G A G A A$ GAGGAAAAGGCAGGAGAGAGGGGGCAGGAATTGAAAGAACAG A G G G A A G G A A A A G G G G A C G A G A A G GAA $A \operatorname{AGGAGAGGGCCAGAC}$ GAAGACGGAAAGAAGGGAAAGGGGGGCAAAAAAAGAAAAAAG A G A C G G A G A A G G A A G G A G G A G G G G C C A G G G A C G A G A A A G G G G G GAGGGACGAGGGGGGCCGGAGAGAAGAAAAG
$11008000-9$ A A G G G G A A G G A A G G G G A A G G G G A A A A A A G G G G C C A A A A A A C C C C C CAA A G G G G GCCGGAAGGAAGGCCAAAA G GA A C C A A A A G G G G A A A A G G A A C C G G G G G G A A A A G G G G C C G G G G G G G G C C A A G G A A G G G G A A G G A A G G G G G G C C G G A A A A G G G G G G A A
 $C \subset A A C C G G C C A A G G A A A A G G G G A A A A G G G G G G C C G G C C B G A A$ G G G G G G G G G G G G G G G G G G G G G G G A A G G G C C G A A T A G G A A G G A G G GA GAAGGACCAGAAAAAAGGAACCGGAGGGAAGAAAAGAA GAAAGAAAGGGGGAGGAGGAGGAAGGAAAGACAGAGAGAGAG CA $\operatorname{G} A \mathrm{~A} G \mathrm{G}$ A A C G A G A A A A A A A A G G A G G A G A C A A G C A G G A A A G G A A G GAACCGGAAACACGGAGAAGGGGAAGGCAAAAGTTGAAA A A A A G G G A A GAACCGAGGAAAAAAAAATCCGGGGCCGGGGCAA GAAGCAAGAAAGGAGACAAAGAGAAAAGGGCAAAACAAAAGB G GAA A GAAAGAAAGGGAAGAAGGGACGGAGGGAAAACCAGAA GA $\operatorname{G} G A A G G A A A A A C G G A A G G A A A A C A G G A A A A A A G G A G G G G G$ A GAA A G G A GAAACCAAAAGGGGGAAGCCGGAAGGAAAAAAAG G GAGGAAAGGAAAAGGGGGGAACCAAAGCAGAGAAGAAAAAA GAAGAAGGCCCCGCCGAGGGAGGGGAGGGGAGCAAGAAGAAA A A A A A ACCGGAAGGGGACGAAGAAAAGGACGGATAGAGAAAG G G A A A ACCAAAAAACAAAGAAGGAAATAAGCCAAAAGGAGGG GC G A A A A G A A A A A C C C G A A GAA $A \operatorname{GAAACCGGGGAAGGGGCCGG}$ ACGAAGCCGGAACAAAGGAAAAGGAACCGGAGAACAGAGAAA G GAA $A \operatorname{GA} A A A G G A G C G G A G A G G G G A A G G A A G A G G A G G A A A G C$ A A G G G A A A A A G G G GCCCAAAGGAACCAAAAAACCGBAAC GAA $G C A A A A A A G G G G G G G G G G A A C C G G G G A A G G A A A G A A A A G A A A$ GAGGTAAGTTCAAAAGGGGGCAAAACGGGAAAAAAAAAAAGBG GAAAAAGGAAGACCGGGAAAGGAAACAGAAAACCAAGGAAAA AAAAAGAGGAACGGGAAAAACCGGCCGGAAAAAGGGGGGGGA A G A G A GA $\operatorname{A}$ GAGGGGGAACGGCACCCAAGAGGAGAAGGGAGCA AACCGCCACCAAAAAGGAAAAAGGAACCAAGAACAAAGAGGG AAGGAAGGAAGGCCAAGGAGGAAGGAAAGGAAGGAGGGAGAA A G A G G A A A G G C C G A G A A A A G G A G G G G G G A A A A G G A C G A A A A AAAAGACAGAGAGGGGGATAACGGAGGGCCAAGGAAAAGAAA G G A A A A A G A G TAAA A G CAA G G G G GAATTGGAAAA G GAAAAAAA
 A A A A G A A A A C A A A GAGGGCAGAAACCGGAGAAAAACAGGGGG AACCGGCCGGCCGAGGCCACGGAACCAAAAGGCCGGACAAAA AAACCCAGCAGAGAGGAGGAAGGACAAGAAAGGGGGGACAAG A G G G G GA TAA A GAGGGGAGAGGGAGGAAAAAGAAAACAAAAG G A T A A A G G A A A G A G A G A G A A G G A G G G G G A A A G G G A A G G G G G G G G G G G G A A G G A A GA $A \operatorname{A} A G C A A A A A G G A A A A G G G G A A A A G A G G$ G G G G G G A A G G G G G G G G C C G G G G G G A A G G GAAAAA A GA GACAC C G G G A G G G G A G C C G G G G C C G A A A A A A G A G A G G G G G T A G G G G C A G GCCCAAGAAGGAACCAAAGGGAGAGCCGAAGGGGGAGAAAA GAACAGAGGGAGAAGGAGAAAACCAAGGGGCCCCAAAAAAGA A A A A A GATCC G C A A G G GCCGGGGAAACGAAAGAGGCCGAAAAA
 A GAAGGGGAGGAAAGGAGAAAAAAGGCCGAACAAACCCAAAA GAGAAAAAGGCCGAGAGAGGGGAAGGAACAGAAAAAGAAGBA

A G GA $A$ A A G G G G G G GAAAAGGAAGGAGGGAGAAAAACGCAGGA $G G A A A A A G A A C C G G A A G G A A A C G G A G G G C A G A C C A G G G A G G G$ GGAAAGCCAAAGAAAAAAGGAAGAAAAAAAGGGAGAACGAAA G GAGAAAAAAAAACAACCAGGGGGCCAAAAAAGGCCAAGGGG AAGGAAGAGACCGGCCGAGAGACCAAAAAAGGGACAAAAAGA
 G GAACCAAAACCAAGGGGAAGAGGCCAAAACCGGGGAGGGGG A A A A A A A A A A A A A A CCGGAGACGGAAAAAAAAAAAAAAGGGG A A G G G GCCAACCCCGGCAAAGGGGAAGGAAAAGAGAAGAAAG G GAAAAGAGAGGAAGGAAAACCGGCAGGAGGAGAGGCCAGAA A GCAACGGAAAACAGAAGGGAGGAAGGGAGAGCCAGGGACAG
 C CAA $A \operatorname{GAA} G G A A G G C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ A A A A GAGGGAGGAAGGCCAAAAATGAAGGAGAGAGAAACCAG
 AAAACCAGGAGGGAGGGGCCCAGGGGAAAACCGGGGAGAAGB GAAAAGGATTAAAAGGAAAAGGGGGGGGAGGGAGAGAGAAAG G G G GAA $A \operatorname{GACA} A A C A A G A G A G A G G A G C C A G G G A A A A G G A A A A$ $G G C A T A G G G G G G G A A G C C G G C A G G A A G G G A A A G G A A G G A C A A$ G G A A G A G G G G G G A A G G A A G G A G G A A G A A C C G A A G G A G G G G G G $C \subset A A C A G G A A G G G G A A A A G A C C A A G A A A A G G A G G C C G G G G G A$ G G G GAAAAAAAAAAAAGAAAAACCGAAAGGGGAGGAGAAGAA G G G A A G A A A A A A A A G G A G GACCAGGGCCGGAAGGCCCCGGGG C G G A G A A G G A G A G G G A G G T A A A G G C C A A A A A A G G G G G A G A G G A A C A G G G A A G G A A A A G G GCCA G G GAGAAGGCCAACCAA G GA G

 A G G G A G G G A A A GAA A A GAGGGGAAAAAAACGGGGGGAA G GAA G G G G A G G A G G G GCC G G G G A A G G G A A A G GAACCAACCAA G G G G $G G A A G G G G G G A A A A A A G G G G A A G G G G G G G G A A G A A A G G A G C C$ $A G G G C C G G G G A A G A G G A G A G G A G G A A G G G G A A A G A A G G G G G G$ A GAGGGGGAAAAAAAAACAACCAAGGAAAAGAAAAGGGCAAA GAAAAAGGGGAAGAGGGAGAGGGAAAGGGGAAGGAAGAAAAA A A G G G G A A G G G G A G A A A A G G A A A A G G A A G G G G G G G G A A G G A A A GAGAAGGAGGAGGAAAACAAGAAGGAAAAAAGGAAA GAGAA A A G GCCGGGGAAAAGGAACCTTGGGGAAGGAAAAAAGGAGAA G G G G G G G G G G G GAAAAAAGGCAAAAAAAAAGGAAGGGGAAGA AA G GAAAAGGGGAATTAAAAAAAAAAGGAAGGGGGGGGAAAA G G G GAAAAGGTTGGAACCAAAAAAAAAAAAAAAAGGAAAACC A A A C G G G A A A A A G G G G A A G GAAAAAAGGAAAATTGGGAAAAA AA $A G G G A A G G G G G G G G A A A A A A A A G G G G A A G G A A A A A A A A A A$ A A C C G GCCAAGGGGGGAAAAAAAAGGAAGGCCGGCCAAAAGG A A G G G GAAGGGGAAGGTTCCAAGGAAGGAACCAAAAAAGAAA G G G A G A G A A A G G G A G G A A A C A A G G G G C C A G G G T T A A G G G G A A
 G G G G A A A A A A G GCCGGCCGAAGAAGAAGGGAGAAAAAAGGCC AACCAAGGAAGGAACCGGGGAAAAAAAAAAGGAAGAAAGGAA G GAACCAAAAAAGGGGAAAAGGGGGGAACCCCAACCGGCCGG AAGGCCCCAACCGGAAAAAAAAGGAACCCCGGAAGGGGCAAA
 G GAA A G G G A A A A A A A A A A A A C C G GAAGGGGGGAAGAAAAACC $G G C C A A G G C C G G G G A A A A A A A A G G T T G G G G G G C C G G A A A A G A$ G G A A G G A A A A A A G G G G G G G G A A A A G G G G A A G G C C A A C C A A G G AAAAAAGGAAGGCCGGGGGGAACCGGAAAGGGGGAAGGAGAA A G G G G GAGACGGGAAAGGAAGGAGAAAGACGGAAAGAAAACC

 A A G G G G G G G G A A A A G G A A A A A A $A \operatorname{GCCCGGAAGGAGGGGGAGAA}$ AAGGAAGGGGCCGGACAGCCAAGAGAGACCGAGGCAGGGACC

ACGGAAGGCAAGAAGGGGAACCGGGGAAAACCAACGAGGGAG
 A A G A A G G A G G G A A A G G G G G G G G C C T T A G A G G A G G G G A G A G A GAAAGAAAAGAAAAAAGGAGCAAACCCCCCGAGAGACCAGAG A A A A A A G G G GAAAAAAGGAGAGCGAGAGCCAGGGGGGGAAAC C CAGAAGAGACCAAGAGGGAGAAAAAGGAACCGAAAGAAAAA TA $A$ A A G G A A A G G A G G A A G G G A G G G G G A A C C G G A A C C GAA A A G GAAGAGGGGAGGAAGGGGCACCGGGGAAGGAAAGAGCABAAG G G A A C C G G G G C A G G G G A GAGGGAA G G A A A G G G A G A G G G G A G G $A G C C C A G G G G G G G G A A A A G G A A C C G G G G A A C C C C A A G$
GTTGGAAAAAAGGAAAAAAAAAAAAAAGGGGAAGEAAAAGG ACAAAGGACGCCGGAGAGAAAGCGGGGAAGACCAACGGGGCAA
 G G G G A A A A G GCCGGGACAGAAAGGACAAAAGGCAAAACAGAG A G G G G GAAA A A GAGAAAGGGCCAGACGGAAACGGGGAGACAA G GAGGGGAAAAGCCAAGGAGGAGGAGAAAAGACAGGCCAGAG $A \subset A G G A G G A A G G A G G A A G A G G A A A G G G G G G G G G G G G A A G G G G$ G GCCAAGGGGGAACTTCAGGATAGAAATAAAAGGAAAACAGG GAGGGGGGGAGGGGAAGGGGGAAGAAAAGGAGGGCCAAAAGB AAAAGGGGAGGGCCCCGGGAAGGAAAGGAAGGAGGACAAAAG CAGGAGAAACGGGGAAGGCCGGGGAAAAGGAACAGGGGACAG A A GAAA A A A A G G G G G G GAAAGGAAAAAAAAGGAAAAGGCCGG G GCCGGAGAGAAGAGAAAGGAAGGAAAAAAGGGGGGGGAGAA AAAAGGGGGGAAGGACAGCCGGAGACAGGGCCAGAGAAAGCA G G GAGGAAGGAGGGCCGGGGAGAGGGCAGGAAAGAAAAAGGA AAGGCCTTCCCCAAAAGGGAGGAGAACCAAAAGGTTAAGGGG AA $A G A G A A G A A A A G G A G A G A G G A A G G A A A A G G G G G A A A G G A A$ A A A A A A G GCCGGGGAAGGCCGGAACCAAGGAAAAAAAACAAA A AACACAAAAAAGACAAAAAGGGAGGGGAGAGAGAGAGAGAAA $G G A G G G G G A G A C G G G G G G G A A G A G C G C C G G A A A A G A G G A A A A$ A A A G G A G A G A G G G G A A A A A A G G G A C A A G A A A A A G G GAAA A A G GAGGAAAGAAGAAAAAGGCGGCAAGGAAGAGGGGAAAAGGAG
 G G A A A A A A A A A A A A G G A A G G A A A A G G G G G G A A G G G G G G A A G G AAAAAAGGCCAAAACCAAGGAAAAAAAAAAAACCCCGAAAGG A A A A G G G G A A G G G G A A G G A A G G A A A A G G A A G G A A G G A A A A G G A A G GAACCGGAAAAAAGGGGGGAAGGGGAAGGCCAAGAAAAA G G G GCCGGGGAAAATXAAAAAAGGGGGGAAGGAAGGAAAACC
 C CAA $A \operatorname{GAAACCAAAAAAGGGGGGAAAAGGAAAAGGAAGAAAAA}$ G GAAGGCCAAGGCCCCGGAAGGGGAAAAGGAAAAAAGGAACC A A A A A A G G G G A A A A A A A A G GAA $A \operatorname{GGGGAAAAAAAAAAAAGGCC}$ AA $A G G G G G A A G G A A A A G G G G A A G G G G C C G G A A G A A G A G A G A A$ AAGGGGCACCTTAGACCCAGAAACAAAAGAAAAGGAAATTAG GAA $A \operatorname{GA} A A A G A G G A A A G G G G G G A A A A A A G G G G C C B G G G G G G G$ CAAACCAGGGGGAGGGAAGGAAAAAAAAGGGAAA GACAAGAG AACGGGGGAGGGAGGGTTAAAAAAGGGGAAGGAAAACCAAAA A A A A G GAAA A A A A A A A G G G GACCCCCGGGAAGAAAAGGAGAA $C \subset G G G G A A T T G G G G G A A C A G G A A G C C C C G G G G G G C C G G A A G G$ G G G G A A C C A A A A G A GACAGGAAAGAAGGTTAAAAAAGGACAA C C G GAACCAACCAAAAAGCCAAGGGGCCAGGGGGGGAAAGAA AA G GAAAGAAAGCCAAAAAAGGAGCACCCCAGACCCACAGAA $G G A A A A G A G G T T G A G G G G C C G G C A G A G G A A G A G A A A G G A G A A$ CAGAAAGAAGGAAGGGATGGGAGGAGCCAAGGAAAAAAGAAA GAAGGAAGAAGGAAAGGAAGAAAGACAGGGAAAAGGGGAGAAA CAAAAAGAAGGGAGAAAAACCCGGAAAGGGAAGACAAAAGAA G GAAGAGAAAGAAAAGAAAAAAAAGGGAGAAAAAGAAAAAAA A A G G G A G A GAAAA $A \operatorname{A} A G G G G G G A G G A A G G A C G A G G G G G G A A G A$ $A C G G A A G G A A A C C C G G A G A A G G A A G A A A C A G G G G A C A A A G A G$

A GAGAAGGACGGGGAAGGGAAGGAAAAAGGGGAAAAAAGAAA AAAGCCCCGGAAGGAGCCAAAAGGACGGAAGAAGGGAAAAAG CA $\operatorname{G} G A C A A A G A A A G A A A A G A G G G A A A G G A A G G A A G G G G G A G G$ G GCCGGGGAGAGCCCCGGAGGGGAAGACGAAGCCGAGAGAAA G GAACCAAGGGGCCGGGGGGAAGAAGAGGGGAGAAAAAGGGG

 G G G G G GAGGAGGAAGGAAGGAGAAGGGAGAAAGGAGACAACAC AGACGGAAAGAAAAGGAAAAAAAGTTAAAGCCAAAAAAAAAA AGACAAAGGAACAAAGAAAAGGGGGGCCAAGGCCTTACAGGG A G G GAACAGACGAAAGGGAAAAGGGAAGAAGAA GAAGGGGAT G G G GAA A G G GAAGGAACCAGAAAACCGAAAGGGAA GAA GGGG $A G A C A T A A A A G G G A A C G G A G A A G G G G G G A A G A A G A G G G A A A A$ AAAGCGGGAGGAGACAGGAGGAAACCGGAAAAGGGGAAAGAC CACCAAGGGGAGAGGGAGCAGGGGGGAAAGAAGGGGGGAGAA GGCCAAGACCAACCAGGAGGAAGAGGAAGACCGGAAAAGGCA A A G G C A G A A G A A G G G G G G G G G G T T G G A A A A G G A A C C A A G G A A A A G G G GAA A GAGGAAGGAAGAGAAGGCCAAAGGGGGAAAACC A A A A A A A A G GAACCTTCCGGGGAAAGATCCCCCCAAGGAAAC
 G GAAGAGACCGGAAAAAGAAGGAAAGAAAGAGAGCAAGGGGG G G G G G GAAAAGAGGAAAGAAAGGAGAAGGGGGAAGAGAAAGA

 G G A A A T G G A G G GAA $A \operatorname{G} \operatorname{A} A A G A G A G G A A G G A C A A A A G G G G C A A A$ AAAGCACCAGCCGATTAAGAAATTTTCCAAAAGAGGGEAAGG G G GAGAAGGGAACGGGTAACAGGGCCGGAACCGGGAAAGAAA G GAA A A A A GAGGAAACGAAAGACCGAAAAACCAAGGAGAGGG A GAACCGGAAAAAAAGGGCAAAGGAAGAAGAGGGGGGGCCCC G G G G G G G A GAA A GACCAAGGGGGGGGAGAAAAAAAAGGAAGAG
 $C C G A C C G A G A G G G G A A A A A A A A A G G G G A A A A A A A A A G G G G G G$ G GAA A G G G G GAGAAAAGGAATAAAGGCAAGGGAACAAATTAA C C G GCCGGGGAAAAAAAGAAGGAATAGGAAAAGGAAGGAGAA AACCAAGGGAGGAGGGCCCCAAAAGACCAGGGGGCACCGGAG G GAACCGGAAGGAATAAGGGGGAAAAGGAAAGAGGAGGGGGG AGAGGGAGGAGGTAAAAGAAGGAGCAAGACAAAGAGACGGTT G GAGGGACGGGGGACCGAACCAGAAGCACACCCCTAAGTTTT GAAAAAGGCAGACAGGGAAGGGAGCACAGAGAAAGGGGGGGG A GAGGAAGGAAGGAGAAACCGACAGGAAGGAAAGACGGAGAA $G G A G A A A A A A G G C A G A C C G A C G G G A G A A A A G A G G G G A G A G A A$ G G A G C C A A A G A T G G A A A A C A G A C C G G G G G G G G A A A A G G G G A A A ACAAAAGAGGGAAAAAAAGGATACCAAACAGATGGGAGGCA G G GAAAAAGGAACCAAGAGGGGGGAAAAAAAGAGAAGGAGAA A G G A A G G A A CAGAGGAAGAAGACCCCCCAAAATTGGAAGGAA A A G G A A A A G GCAA $\mathcal{A} A \operatorname{A} G A G C A G A G G G A A G G G G C A G G G G A G A A$ AACCCAGGAAGGAGAGAAAACCCAGGGAGAGGGGAGGACCAA GAGGGGCCAAGAAAAACCAACACCAAGGACAGCCAAAACAAG G GCCAGGGGGGGAGACGAAGCCGGAGGGGGGGAGAAGAAAAG C GAA A G G G GAGGAACCAAGAAACCAAAAAACCGGCCGGAAAA
 CAAAGAAGACAGAGGAGGAAGGGGGGAAAGCCAGGGGGAAAA A A A G A C G A A A $\mathcal{A} G G G C C G G G G G G G G A A G G A G A G A G A G A A G A A A$ G G G GAGGGCCGGGGAGAAAGAAGAGAACAAAAAGGGCCGGAG A A G GAACCTTGAAAAACCGGGGAATAAAAAAGCAAAAAAAAA A A G A A A ACCAAACAAAAGAAGGAAAAGGAACCCCAAGGAAAA G G A C A A G G A A C A A C A G A A A GACGGCAGAGGAGCCCAAA G GAA A A A A A A A A A G A CA G CC GACAAGCCGGAAAGAGAAGAGG G GAA G G G GAA $\mathrm{A} G \mathrm{~A} A \mathrm{~T} A \mathrm{~A} G \mathrm{G} G \mathrm{~A} A \mathrm{~A} A A A A A A A A A A C C A A G G A A G G C C G G$
$G G C C G G A G G G A G A G A A G G A C A G G G A A A G G A G C G A A A A A A C A A$ A A A A G GAAAAGGGGCCGGAAAACAGGAAGGGGAATTGAAAAA $C C C C G G C C G G A A A A A A C C A A G A G G A A A A A G G A A A A A A A G A A A$
 G G G G G G G G GACCGGAACCAGCCGGAAAGAAGGCCGGAAGAAA $C \subset G G A A G A G G A G A G G G G G A A A A A G C C G G G G A A G G A A A A A A G A$ GAGAAGGAATAAAAGAAAGAGGAGAGAAAAACTTAAGACCGG AAAAAAAAAAGGGGAGACCCGGTTAGAAAAAAAAGGGGCCAA A G G A G G C G G G G G G C A G A A A GAGGGGGGAAAAGGAAC GAAAT T A A A A A A A A GAGGAAAGAAAAGGAGAAGGAATTGGGAA
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 A GCCCAAGAGAAAACCCCGGGGCCGGGAAGAGGAGGGGAGAA GACAGGAAGAAGGAAGCCAAAAAGCCGGGGGGTTAAGGAAAG G G G GCGAAGGGAAGAAGAGGCCAAGGGGGGGGAAGAAAAGAA
 GACGAACAAGGGCAAAGGAAAAGAGGACAGAAAAGGAGAAGG A A G G A GACGGGGCCAGGGCAGAAGGGAAAGGAAAAAAAAAAA G G G G G G A A A A G G G G C C G G G G A A G G G G A A G G G G G G G A A A C C C C CAAGAGGAAGAGACAAAGTAGAAAGGAATAAGTTCCAGACGG G G G GAA $A \operatorname{GCCA} \mathrm{C}$ GAACGAGAAGGGGAAGAAAAAAAGAAAGGCC A G GAA A G GAAGAGAGGGAGAGAAGAGACCAAAAAATGGAGAA A A A G G A A G A A G GA $\operatorname{A} A A A A G G G A A G A G A G G G A G C C T T G G A G G G$ G GAGGGAAGGGAAACCGGGGGGACGGAACCAAAAGAAAAAAA AAAAAGACAAAAACGAGGAAAAGGAATTAACAAGAAGGAACC A G A A A G G A A C G G G A G G G GCCAAAGAAAGAGCAAA GAGAAAAC T T GAA A GAAAAGAGAGGGAGAGGGAAAGGAACAAGAGGAAGG GGCCACAAAAGGAGGAAAAGAGAAAAGAAAAAGGAAAAGGAA $A C C A G G G G A A G G A G G A G C G A G G A A A G A G A A A A G G G G A A G G A A$ A A A A G A A G G G G A G G G A A C G A G G G A A C G G G G G GCC G GA C A G G G GAGGGGACAGACGGACGAGAGAGGACAGGGGGAGAACAAAAG C C CAA G GCAAAAGGAAAAAGCCGAGAGGAAGACCAGGGAAAA
 GAGGAAAGACGACCGGAGAGGGGGAAACGAAGAGAAGAGGCC G G G GCA $\mathrm{G} G \mathrm{G} G A A C C G G A A G A A A A G A G A G A A G A A C C C C C G G B A$ CAAAAAGGGGAAGAGGGGAAGGAAGGGGGGAAGGGACCAGAA
 A GCCAAGGAAGGGGAGGAGAGGGGAGAAGGGAGAAGAAAAAA GAGGGGGAAAAAGAGAACACAAGGGGGGAGAGGGCACAAAAC A A A G A G G A G G A G C A G G C A G G G G G G G A G G G G A G C A G A A G G A G A $A C G A G G G A G G G A G G C C A G G A G A G G A A C C G G A G A A A A G G A A G G$ $G G A A C C A G G G A G A A G A A A G G A G C C G A A A G G C C G A A A A A A A G A$ GAAAGAGGCCAGGGGGGAAGAGGGAGGGCCGGGAAGAGAAGG A A G GAA A G G GAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A C G A G A A A A A G A A A A G G G G G C C G G$ AAAAAAGGGAAGCGGAAAACAGGAGAGGAAAGACGAGAACAA G GAGGACCGGACAGGGGAAAGGACAGAAAGACAGGAGGAAGA CCGGGGAGGGGAAAGAGGTTGGAAAAGGGAAAAACCGAGAAA AAAAGGCCCCAGAAAAGGAAGGGGGGAAGGAACCGAAAGAAA GAGGAAAAGAGAGGGGGGAAAAAGAGAGCAGAGGGGGACAAG A GAA $A$ A A A G GAAAAGGGGAGAGAAAGAACAAAGGGGAGAGAA

 A G G G G G A G A A A A A A A G A A G G G G G A G G G G G G A G A GCC G G C C C C GAGAAAGGAGAAAACAGGAAAAAAGAAAGAGGAAAGAACCAG

AAGAAGAGAAGGAACCAAGAAGGAGAGGAACAAAAAAAAAGG A A G G A A A G A A G G G G G G G G A G G G A A G G G G A A G G G G G G G G C C A A AAACGAAGGAAGCAAAGGAAAAGGAACCAAGGCCAAGAAABAA ACGAAGAACAAAGAGGAAGGAGGGAGAAGAGGGAAAGAAAGG G GAACCGGCCGAGGACGGACGGAAGGAAAGGGGAGAAAAAGA AAGGAACCAAAGAGAAGAGACCAAGAGAAGAAGGAAAGAGAC A A A A A A A A A A GAG GAA A GAGGGACACGGAAAAAGGGGBAAC G AAAGCCAAGAAAAAGGAGGGAAGGAACCGGAAAGGGGGAGAA
 AGGGAACCGGCAGGCAACGGGAGGAACCGGAAAAGGGGAGAAA G GAGGGAAAACCCCGGGAAGAGAGGAAAGACCTTAAAGCAAA G G G G G GACAA C A GAAAAAAGGGAGGAAGGGGAAAAA GAGAA G G GAAAA $A$ A $A \operatorname{G} \operatorname{A} A A G G A C A G G A A C A G G G G G G A G G G G G A A G G G G G G$
 A A A A A ACAGGTAGAAAAGAGAAAAAAAACAGGCAGGAAAA GA G GA A A G GAGGGAGGGAAAAAAAAGGGAAAGAGGAGAGAAAGAA A GAGATAGGAGAAAAGAAAAAAAAAAGGATAACCAACCGGCC GAAAGGAAGGGGAGGGGACAAAGGGGGAGGAAGGGCACAAAA $A C A G A A G G G G A A G G A A G A G G A G A A G G G G G G A A G G A A C A C A B G$ GAAAGAAAGCAGGAACAGAAAACCGAAAAGACCCGCAACAAG G GAAGGGGCCAAGGGGACAAACGGGGCAAAAAAAGGAAGAAA A GCC C G A A A G G G GAGCAGGGGAGAGGAAAA GAA AAAGAGGAA $A G G G A G G G A G A G G G G G G G G G G A G A G G A C A A G G A G A G G G A G A A$ G G G G G A G G G GAGACGGGAAAGGAGCGAAAAGGAACAAAGGGG G G G GCAGAAGGGACGAAAAAGAGAGACAAAAGCAAAAGAAAA GAGAAAAGGGAGGGGGAGGAGGGGAGGAGAAAGGCCAAAGGA A G GAGGGGAAGAGGGAGGGGAGAAAGGGAAGAAAGGAAAAGG G GAGGAGGGCGGAGGGAAAAAAAAAGGAAAAAGGAAAAGGGG A G G A G A G G G G G G A A A G A G G A G A T T G A A GACAAAAA A $A$ A G G G G G AACCAAGAAGCAGCAGGGCCGGCCAAGGGGAGGGGGAAGA$G A$ A GAGCCAACAACAGAAGGCGCCGGGAAAAACCCCAAGGGGGG AAAATTGGAAGGAAGGGGAAGGAAAGGAGGGGGGCCAAAAGG
 $A G C A A G A G G G G A A G G A A G G A G G A G G G A G G G A A A C G G A A A G A A$ GAAGAGGAGGAGGGGGGGGGTTGAGGAAGAACAAGACAGGGG A A A G G GAA A GAAAACCAAAAGGAAAAGGAAAGAAG GAACCTT GATTGGCAAGAAAACAAGGAAAAAAAGGGGGGGGAGAGAAAA A A G GA GAGAGGGGACAGAGAGGAAGGGGCCAGAAACAGGGTT CAGGGGAAAACCAAAACCAGGGGGAAAAAAGGAAAGGAGACA A GAAA A A A A GAGAAGGCCCCAACCGAAAAGAAGGAAAGAGAA AAAAGGAAGGAAGGAACCGGGGAATTGACCGAACGGGACCAG GAAAAGGGAGCAGGAGCAAAGGAACCGGGGGGGGAAAAAGBC G G G G G G G GAAAGAAAAGGGGGGGGAAGGAAAATTAGGGAGAA G G A A A GAGAGAGAAGAGGAAAAAGAAAAGGGGCCCAACAAAA A A G G G G A A A A G G G G A A G G A A A A A A A A A A G GAACC G GAAAA C C C CAACCAAGGAAAAAAAAAAGGAAAACCGGGGAAAAAAAACC $G G C C G G A A A A C C G G G G G G A A A A G G A A A A A A G G G G A A A A G G G G$ A A G G A A A A G G A A G G G G G G G G C C A A G GAAAAAA A GAA A G C C G G
 A A G G G G A A A A A A A A G GCC G G GAA A GAA A A A G GCGGGGAAAC C
 G GAGGAAGAAAAAAAAGGCCGGGGAACCGGGGGGAAGGAAGA GAGCGCAAAGAGAAGGGGAACAGGAAAAGGAGGGAGCAGAAA AAGGAAGAAAAAGAAGGGGGGGGGGAGGAACCAAGGAAGGGG ACGACAAGCCGGGAAGAAAAAAACAAGGGGAAAAAAAAGGGG T T A A A A A A A A A A C CAAAAAAAC GAAAGGGGGGGGAAGGAGGA C C GAGGAGAAGGAAAATTACACGAGGAGGGAGAAGGAGAGGA C C G G A A C A A A A A C C G G A GAACAAA G G GAA GAA G G G G G G G G G A $C \subset C C A A G A G A A G C A G A T T G G G G A G A G A G G A G A G G A A G G A G A A$

AACCGAGACCAAGAAAGGGGAGGAAACAAGCGGGGAGAGAAA G GAACCAAAGCCAACAAAGGGGCCGGGGCCGAAGCCGAGAAA
 AAACCGAGGGAGAAAGAGCCGGAGGGAGAAAATTAGAAAAAG GAAAGGGAAAAAAAAAGAGGGACCAAAAGGAAAAGGCCAAGAG G G GAAA $A \operatorname{GA} A \mathrm{~A}$ G G GAAAAAGAGACTTAAGGAAAAAGGAGAGG A A A A A A A A A A G GAACCCCGGGAACCCAGAAAAGGAGGGGGGG CAAGAGGGGAGAGAGAAGGAGAGAACAGCAAGCGGAGGGGGG G G A A C CAAA A G G G G CAGGGGCCAAGACCAGCCCCAAAAAAAG GAGGGGTAACGGATACGGACGAAGAGAGAAGGAAGGA
 G GAAGAAAAGAACCGGGAGAAGAAGAAGAAAGGGAAAACAGG A A GAA A GAA $A \operatorname{AGGGACAAAGGGGAAAAGGAACCGGGGGAAGAG}$ G GCAGAAAAAGGCAGGGGAGAGCCCAGGAAGAGGAACAAAAC AA $\operatorname{A} G A A T T G A A A G A A G A G G G G A G A A A G G A C G G G G G G A A G A A A$ AAAAGAGGAGGGAGAGGGAGAGCCGAAGGGAGAAGGAGACAG A A A A A A G A G G G GAAAAAAGGGGAAGGAAAAGGACAAA GACAA G GAGCCGAGGAAAAGGGGGGAAGGGAGGCCCCAAGGGAAAAA $A A C C A A A A G G A A A A G G G G G G G A A G A G G G G A A G A G G G G C A G A A$ G G A A G G A A G G G A A G A G G A G G G G C A G G A A A A A CACA GAA G G G A G GAAGGGGAAGGGGGGAAAAGGAAGGAGGGGGGAAGAAAGCG G GAA $A \operatorname{GAAAA} \operatorname{A} A A A A G G A A G G A A A A A A A A G G A A A A G G A C G G A G$ A A G A A A A C G G G A A G C A G G A A A G C A A G G G G G A G A G A C G G G G G G C CAGAAGGGACAAAGAAGAGAAGAAGGGAAAAAAGAGAAA GA $A C A C C C A G G G G G T T G G A A G G G G C C A G A G G A G G A G G G G G G G A C$ A GAGGGAAGGAGAGAGCAAGCCGGAAGAACAAGAAGGGAAAA AAAAGGAAGGAAAACCGGAAAAAGGGGGGGAGAAGGGAAAAA GGCCACAGGACAGGAAGGAAAAGGCCAAGGAGCCBGAAGGGG A GAGAGAAGAAAAGAGAGGAGGAAGGGGGGCCGGAGAAAAAG AC G GAGGGGAACAGGATTAAGAGGGGAGACGGTAGAAAGGGG G G G G A A A A C C C C G A G G G A G G G A G G G G G G G G G A G G C C A A G G G G $C C C C G G G A G A C C G G G A A G G G C C G G A G A A G A G G G G A A A A C C C C$ A G G GA $\operatorname{A} A \mathrm{~A} A A A A C C A G A A G A A G G G A A C C A G A G A G A G G G A G A G$ A A A A G G G G A A A A A A G G A A G GA $\mathcal{A} G G G A G G A A G A G A A G A C A C B G$
 $G G A G A A A G A C G G G G A G A G A A A C A A A C G G A C A A G G A G A A C C G G$ A GAGGGAAACGGAGGGACGGGGGGGGAAACGGGGCCGGAGGA G GAGGAAGGGAGACAGAAGGAACCAAGGGGGGGGGAAGAGAG G G A G A G A A G A G A G G A A A A A A A A G A GGGGAAGGACA GA GAG G G
 $A C G A G A A G G G A A C C G A A A G G A G G G A A A A G G G G G G A G A G G G G G$
 G GAAAGGGGGAAAACAAAGAGGAGGGAAAGGGAAAAGGAGAG $A G G G G C A A G G A G A G G G A C A G C A G G A A G G C A G G G A A C C C G G G G$ G G G G G A C C A A A A G G A A A A G GAA A GAGAGGGGGAAA G G GA GA A G G G A G A G G C A A A A A GAGGGGAAAGAAGGGAAAGAGAAA GAAT $G G A A G A A G G G G A G G A A A C G G G G G G A A G G G G A G G A G A A A G G G G$ A GAGGGAAAAAAAGAGAGCCAAGGACAAAAGAAGAGAAAAAA AAAAGGGGAGGGAAGGGGCCGACAGAAAGGAGAAGGCCAAAAA C CAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} G \mathrm{GA} A A A \operatorname{A} A A A G A A G A G A A G G G A A A C C G G A G G G$ G GAGCCCCAAAAACGAAAGGAAAGCCGGCAGGAAAAGGAACC G GAAAAGGAAGGAAAACCGGAGAAAAGGAACCGAGCGAGAAC GA $A$ A $\operatorname{G} G A C A A G G A G G G A A A G G G A G A G A C C C A A G A G A G G G G A G$ $C \subset A G C A C A G A G G A A G A A A G A A G G G A C G A G G G G A A A A A A A G A A$ TAAAAACACCGACGGGGAAAAAAAGAAACCAGAAAAGGGGGG GAAGAAAACCGGAACCAAGACCAACAGAGGGAGGAAGGAAAA G GAGGGCACCAAAAGGGAAAGAAAGGCAAGGGGGAGAGAAAAA C G A C A GCAAAAGGAAAGAAAGGACGGGGAAAAAAGAAAAACA AAAGAAAGAACGGGCAAAGGGGGGAGAGAGGAGGGGCCAGAA
$C \subset G A A G A A G A C C A A G A A A C G G A A A A A G G A A A A C C A A A G G A G A$ A A A A A A A A A GAAAGAGACACAAGAGAGGAGGGGGAAAAAAGB
 GAAGAAAAGGGGGAAAAAAAAAGGAAAACCGGAGCCACAAAA AAAGGAAGAAAAGGGGAAGGGGGGGGAGAAAAGACAGACC G $A \operatorname{A} A$ A A C A A A G G G G G A G G G G G A G G G G A G G G G G C C A G G A A A G A A G G A G GAGGGGGAGAGAAGGGGGGAAAACCGGGGCCGGAACAAAAA CCAAGGCCCCGGAAAACCAAGGGGGGAAGGCCAGGGAAGAAA A A A G A A G G A G G GCC G G A G G GAA A A G G G G C C A A G G A A C C G G G G G GAAGGCAAAAGAGACGAAGGGAAAAAACCGGAAAAGGCCGG GAAAAGCCCAGGGGAAAAACGAAAAAAAGGAGAAGAAACCCC C C G A C A A A G G A A GAGGGAAGGGAAAAGGAGAGAAAACCAACA A A A A C C G G A A G GCCGGGGCCAAGGAAGGCCGGAAGGAAAAAA A A GGCCGGAACCAAGGAAAACCGGGGGGCCGGAAAACCAAAA A A A A A A G G G G G G G G G G G G A A A A G G A A A GAAAAAATTCAAA $\mathrm{A} A \mathrm{~A}$ G G G GAAAACCAAAAAGAAAAGAGGAGAAGAAAGGAAGAAGAC A G G A A A A G GAA A GAAGCCACAGACGGGGGATTAA GACAAGCC A A A A G GAGCCAAGGGGCCGATAGGAAAACCAAAAGGCCGGGG AAAAAACCAGAAAAAGGGAAAAAAGGGGAAAAAAGGGGAA G G $A$
 G G G G GAAACCAAAAACAAAAAACCGCGGCCGAAGAAGGGGGG G G G GAA $A \operatorname{GGAC} C A C G A A G G A G G A A G A C A G A G G G A G A G G A G G G$ A G A A A T G G GAAAAAGGAGGAACAGGGGAGGGGCCCCGGAAAA A A A A A A C C G G G G G G A A GAA A A GCCGGGGAAAAGGAAAAAA G G A A G G G G G A A G G G G G C G A A A A G A G G C A A A G G G G A A A A A G G G A A CACCGGGGAAAAAAAAAGCAAGAAGAAACCGGAAAAGGCC GA CAGGACGACCGGAAGGAGGGGGAGAAACGACACAGAGAATAG A GCA $\operatorname{G} A \mathrm{~A} G \mathrm{G}$ G G GAAAAAAAAAAAAGAAGAAGAAAAGAAAACAG A A G G A A T TAAAGGAGGAGACAACCCCGGGGACAGCAAGTAGG $G G A A A A G G G G C C A G G G G G A A A A G G G G G G G A A A G G A A A A G G A A$ G G G G G A A C A A A G G A G A G A A A A G A G C G GAAAAAAA A A A G G G G G G CA GAA $A$ AA $A$ GATAGGAACAAAGAGACCGAAGAGGAGAACAAAG GAAAGGGGAGGGGGCCGGAGGAGGAAGGGAGGAGAAACAGAG G GAGAAGGAGGAAAAAAGGAGGAGAGAAACAAAAGAATAAGB G G A A A A G G G G G G G G A A A A A GAAACCAACAGGAAGGGACAC G G G G G G A G G A G A A C G G G G G G G G A A G G G G C CA G A A A A G G G GAAA A GAGAGAAAAGGAAGAGGGGGAGAAAGGGAAGACAGGAAAAGA AAAAGGGGAAGGAAAAAGGGAGGAAAAAAAGGAAAAAACCBG G G A A A A T T A A G GAA $A \operatorname{G} \operatorname{A} A A G G A A A A A G A A A A G G G G G G T T A G A A$ T T G GAGGGGGCAACAGGAGGCAGAAGAACAGAGGAGAAACAG G GAGAGGGGAAAGGCAAAAAAACCGACCAAAAAAAAAAACCC C C G G C A A G A GCAA G G G T T G A CAAACAAGGGCCGGAGAA G GA G
 A A GAAA A A A GAACCGGAAAAGGCCGGGGAAAAGAGGGAAAGG $G G A G G C A G G A A A C C G A G G G G G G A A G G A A C C G G A G A A A G A A A G$ G GAGAAGGCCCCAAGGGGGGAGACCCAAAACCCAGGGAAAGG A A A C G G G A C C G G A C C C G G G G G G A A A G G G C C C C C C A G G G A C A G A GAGAAACAAAAAGGAGGGGAAGGAGGGAAAAGGAAGGAGAA G G G G G G T T G GAA $A \operatorname{GGGA} A G G G G C C G G C C A A A A C C G G G A A A A A$ CAAAC GCAAAGGAGGGAACGAGGGGGGAGGAAGAGGGGAAGB A A G G G A G A A A C C G A GAGAGGGGGGCCGGAAGGAAAAGAGGGG G G G G GAA $\operatorname{G}$ G G A A A A C C G G G G GAGAGAGAGGGGAGGAAA A A A A A
 AAAAAAAAGGAAAAGGGGAAAAGGGGGGGGCCGGAAGGCCGG G GAAAAAAGGCCGGGGAAAAGGTTAAGGGGGGAAGGCAAAGG A A A A A A C C G G G G G G C C C C G GAACC G G G G A A A A G G G G A A G G A A G G G GCCGGAAAAGGGGGGAAGGGGCCAAAAAAAAAAAAGGAA A A C C A A G G G G G G G G A A A A G G G G G G G G A A A A A A G G C C A A A A C C T T G G G G A A G G G GAA $A \operatorname{GCC} C G G A A A A A A G G C C A A A A C C G G G G C C$

G G G G G GAACCGGAAAAAAAAAAAAAAAACCAAAACCAAGAAA G G G GCCGGAAGGGGGGAAGGAACCGGCCAAGGAAAAGGAAGG C CAAGGAAAAGGGGAAGGAAAAAAAAGGGGCCAAAAAAAAAA $C C G G G G A A G G A A A A C C G G G G G G A A G G A A G G A A A A A A A A G G A A$
 A A G G A A A A A A A A G G G G G G GAGGCCAAAACAAAAA G A A G GAAAG G C C G GCA $\operatorname{CA} A C \operatorname{CA} A \operatorname{A} G A A A G G A A G G G G G G A A T T G G G G C A A A A A$ AACCAAGACAGAAAAATAAAAAAACCAAGGGGAAGGAAAAAA GACCAAGGAAAGGGAAAGGGGGCCCCGGCCGGAAAAGAAAGA GAACGAACCACAAAAGGGCCCCAAAGCAGGGAACAGA
 A G A A G G G G A G A A G G G GCC G GCCGGAGGGGAAGGAA GAAAAGG A CAACAGAAAGGGGAGACAAAGAGACAGAGAGGGAAGAAAAG G G G G G GAA A A GCAGAAAGAGAGAACAGGAGAAAGGAAACCAA A A GAGGAGGAAAGGGGGGAAGGAGAGAAGGAAGGCCGBAGAA $A C G G G G A C G G G G A A A A A A G G G G C C G G A A G G G G A G A A G G A A G G$ G G G G G GAA $A \operatorname{GAAAAAGAAAGGGCAAGACCAGGGCAGGAACACC}$ A ACCAAGGCCAAAAGAGGGGGGGGAGGGAGAAGGAAGAAACC C CAAAAAAGGGGCCGGGGCCGGAACCGAAAACGAAGGGAGAA AA G GCCGAGAGGAAAGGAAAAAGGAAGGGGAAAAGGGGAATA AAAGGAGGGAAATTAAAACAAAAACAAAAGAGAGCAGACCAG AACCGGGGAGAAAAGGGGGGGAAAGGGGCCAAAACCCAGACC

 AAAGGCGGAAGAAAGAGGGGGGGAGACAAGCCAAAAAAAAAA C C C C C C A G A G GAGGGGGGAAACAGAGGACCGAAA GGGAGGAA G GAAAAAGAAAGCAGGCCGGAAGGAGAAGGGGAGGGAGAAGG A A G G G A G G A A A A $\mathcal{A} G G G G G G G A G G G G G G A G G A A G G G G C A G C B G$ AAAAA $A$ AAAAAAAGGAACAGAAAAAAGAGAAAAAA GGGAAA G G $A$ AAAAGGAAGGGGAAGGAAGACCAACAGGGGAAAAGGGGAGAG A A A G G G G G A A G G G A A G G A T T G G A A GAGGGGAA G G A A C C G G G G AAGGAGCCGGAAGGAGAACCAAGGAGAAAACCGGCCAAAGAA G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A A C C \subset A G G G G A G A G G G G A G A C A G A G G G G G G G A$ G G G G G A G G G G G G G A G G G A A A A C A G G G A GAGAGG GAAAAA A G A G G G G A A A A A A G ACCAGACAAAAGGCCGGAAAAAGGGGGAAAA G G G G G G G G A A G G A A G G G G G G A A G G G G A A A A C C A A G G G G A A G G
 G G GAGGTTGGGGCCAGGAAAAAGGGGGGACGGAGGAGAAAAA A GAGCACAAGAGGAAACAGACAAAAAGAAGAAAACCGGAGAA GCGGCCGGGGGAAGGGGGGGACAGGAGGAAGGCCCCAAAACC $C C G G A G G G G A G G A A G G A A G G G A A A G A A A A G A A A G C C G G C C C C$ G G G A C C A G G G A C A C C G A G G G T A A A C C A G G GAA G GA G G GACA A G GAGAAAGAGGGGGCAGAGGGGAGGAGGGAAGACCAAGAAGA A A A A C C G A G G G A G GCCGGGAGGGGCCGGCAGAAC GAGAAAAA C C G GCCAACCAACCAAGATAAAGGCCGAAAGAGAGEAGCGGG G G A G A G G G A A A A A A A A $\mathcal{A} G A G A G G G G G G G G G G G A G A A A A A G T T$ GAAGGGGAAAGGAGAGGGGGAAGAGGCACAAAAGAGAAGACC GAAGAAAAAAAAGGCCGGAAAAAAAAAAGGGAGGGGAAAACC A GAGGAAGGGCCGAGGGGGGAGCAAGACAGACAGAAGGAGAA
 CAAAAGGGGATTAGACGGAAGGGGAGAACCGGGGGGATCCGG A A C A A A A A GAAAG GAGAAGGAAAAGAGGGGCAGATAGAAAAA G G A G A A G G G G G G C C A G A G A G A A G G A G G G G G G G A A G G G G A C $\mathcal{A} A$ GACGGGGAAGCCGGAAGGGGAAGGGGAAGGAGAAAAAAGAAT GAAGAGAGAAGGGAGGACGAGGCCCCGGAGAAAAAGAGAAGG GACCGGAAAGAACCGAAGAACCAGGGAGGGAAGGCCGGAAGAG
 C C A A G G A A G G G A C C A GAGAGGGGGAAAGGGAAGGGAAGGGGA AAAAGGAAGGAACCAACCGGGGGGAAAAAAAAAAAAAAAACC

C CAAGGGAGAAAGGGGGGAAAAGAGGCAGGAAAAAAGGAAAA CAAAAA A $A$ A A A A A A A $\mathcal{A} G G G G G C A G A A G G G A G A G G G G G A C B A G G$ $G G A G G G G A G G G G A G A G A G G G G G C C G G G G A G A G A C A G C A A A C A$ A GAAAA A GAAAAGGAAGGGGGGGGACGAAGGGGGCCGAAGGG ACAGGAGAGGAAGAGGCCAGGAAACCAGAGCCGGAAGGAAGA A GAAAAAAAAAAGGGAACAAAAAAGAAACCGAAGCCGGCAAA A A G G A G G G A A G A A A G G A C G GAGGAGAGAGGGGCGGGAACAAA AAAAAAGGGAAAAGGGCCAAAAGGGGGGGAAAGGGACAAAAA G G G GAA $A \operatorname{GG} \operatorname{GAAAAACAAACCGAGAAAGGAAGGGAAAGAAACA}$ $C \subset A A G G G G A G G G A A A C G G A A G G A A G G G G G A A C C C G G G G A G A A$
 A A A A A A G G A A G G A A A A A A T T G G A GAGAAAAAAAA G GAAAA G G G GAAGGACAAGGCCGAAAAAGAGGACACAGACAAGAAAAAGG $G G A G C A A A G G A A A G A G G G A G G G G A A A C C G G A A A G G A G G A G A A$ AAGGAACAAAAAGGAAAAGAAGCCAACGGGGGAGGACACAGG G GAGAAAAAAAGAGTAAAGAGAGATTTAACAACCGGCABAAG A A G G T ACCGGGAAAGAAAAGAGGACGAGAGAAAGAGAAACTT GAGAGAGGAAGAGAGGTAGGAACAAGGGAAAAACGAGAAAGB $G G A G A C G G A A G G G G A A G G C C G G G A G G A A A A G G A A A G A A G G A A$ A A A G G A A G G G A A A G GAGGAAGAAAAAGGGGAAGAGGGAAAA G G GAAGGGAAAAGGGGGGGGGAAAGGAAAAAAGGGAGCCAACAC G GAAAGCCAAGGGGAAAGGGGGAGAAGAAAAAAAGGGAAAAG G G G GAGGGGGCCAAGGCCGGAAAGGAAAGGGGAAAAAAAAAA C C G GCAAAAAGGGGAAAAGGGAGGAGAGGGAAAAAAGGGGGG G GAACAAAAAAGGGACAGGGCCAAGGACAGCAAAAGCCACAG AAA A GAGGAGGGGGAAGGAAGGAAAAACAGAGAGGGGGGAAG AAGGATGGGGGAGGAGAGCAGACCCAAAAGAGAACACCGGAG G G G GAAAAAAACAGGAAGGGGAGGAAAAGGGGGAGGGAAAAA A GAGGAGGGGAACACCAGGGAACAGAGAGGAGCCGGGGAAAA G GAAGGCCAAAAGAAAAAAAGGGGAAAAGAAACAAAGAACAA
 A A G G G G GACCAGAAAACCCCGGGAGGGAAAAGCACACAGGAG AA $A$ A A GCACAGGAAAAAGAAAAGGGGAAAAGAGGGGAAAAAA A A G G G G A A A A G A G G C C G A A G G G A A GAGATAGGACCCTXAA G G A ACCGAGGAAGGCAGAAGGAAAAAAGGGGATAGAAAGGGGGG G GCCGAGGAGGGAGGGAAAAGACAAAGAGGAAAAAGAAATCC AAGGGGAAAAACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA C GAA $A G G G G A C C C C G G A A C A G G A A A A A A A A G G A G G G A A A G G G$ G G G G A G G A A A G A A G G G G G A A A A G G A G A G A A A G G G C C A G A G G G G G G G C C G A G G A A G G A A G A G A G G G G G G A G G G G C T T A C A G G A G G GAAAAAAACCACGGAGGGGAGGGGCCAACCAAGGAAAGAGGG
 T TAAAAAAGAAAAGAAAAGGAAGGGAGGAAGGAAGGGGACAG G GAAGAGGCCCAGAGGGAAGAACCGGCCGAAAGGCCAAACAG G G A A A G G G C C G A A G G A G G G G G G G A C C G G G G G G G A G G A G C A A A G G G G A A G G A A G A C C G G G G A A A G G G G G GA GACGCAA A A A G G G A $A G C C A G G G A A A A G A G G G A A G A G A G A G G G A G A A G G A G G G G G G G$ A G G A T T A A G GAACCGGAAGGCCGGGGCCGGGAGGGAAGAGAG GAGAGGAAGGGAAAGGCCGGAAAGAAGAGAACCAAGAAACAA AAAGAAGGAGAAGGGGGAAGCCGGAAAGAAGGGGGGAAAAAG C C G G A A A A A A A A C C A A G G G G G G G GCCAAAAAAAAAAA A G $A$ A G G G
 G G G G A A G G G GAA A G G G G G A A A A G G C C A A A A A A G G G G G G A A A A GGCCGGAAAATTCCAAGGGGAAAAAAAAGGGGGGAAAAAGGG G GAAAAGGGGCCAAAAAAGGGGAAGGAACCAAGGAAAAGGGG A A G GAA A G G G G G G G A A A A A A A A A A A G GAA $A \operatorname{GAAAAAGGGGGGAA}$ $G G A A G G A A A A G G G G A A T T A A G G G G A A A A A A G G G G A A A A G G A A$ A A G GCCAAAAGGAAAAAAAAAAGGAACCAAGGAAGGAA G GAA G G G GAA A GAA $A \operatorname{AGGGGGAAAAAAAAAAGGAAAAGGGGGGAAAA}$

A A G G G G A A G G A A A A G GCCGGGGGGGGAAAAGGAAAAAAGGAA
 G GAAGGGGAAAAAAGGAAGGCCAAAAAAGGCCAACCGGGGAG G GAAA $A \operatorname{Ag} \operatorname{A} A A A G G G A A C A A A C A A G A G G A G G G G G G A G G A G G G G$ G G G G G GACAGAGGAGAAGAGAGGGCAACAGAGGGGGAAGAAA GAAAGGCAGACCGGAAAAACAGAGGCAGGGAAGAGGGGAAGAG G G G G G G A A GAGGCCACCCGAGAGAAAAAACGAAGGGAACAAA AACGAAGGAAAAGGAAAAGGCCGAAAAGGGCAAAAAGGAGAA G G G G A A A C A G A A A G G G A G G G G G C C G A CAGAAGGAAGCAAAAA $A A C A G G G G G G G G A G A C A G G G A A A G A G G G G G A A G G A G A$
A G G A G G G G G G G A G C C A G G G A A G G G G G G G G G G G G A G G A G A G G A G A G G A A G A A G G G A G A G G T T A A G A A G G G G G G G A A A A A A G G G G G G G G G G G G A A A A C C C C A A A A G G G G G G A A C C G G G G G G G G A A G G G GAACCGGGGAAGGAAGGAAGAAAAGGGAACCGGAACCGGGG GAAGGAGGAAGGGACCGGCCGGGAGGCAAAAAGAGAAGCAAA GAGGGGAAAAGGAGGGAAACAAAAAGACAAGAA GGGAAGAAG CACCGAGAAACCAGAGAGAGGGGATAAGGAGGGGGGGAAAGG G G GAAAGGCAAGAGAGGAGGAGAAAAAGAAAAAAAAAAGAAG A G G G GAACAGAAGAAAAAAAGGGGGGGCAGAGAGAGGGAAGA A A G G A A A A GAAAA A A A A A A A C C G G G G G G G G G G G GAAAA G G C C ACAAAAGGAAAAAAGGAAGGAAAAAAGGGGGGAAAAGGGGCC
 A A A A G G A A G G A A G G G G G G A A A A A A $\mathcal{A} G A A A A G G G G A A C C G G G G$
 C C G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G G G G G G GAAAAAAAGGAAGGGGGGAAAAAAGGGGGGAAAB
 AAAAGGGGAAGGCCGGAAAAAAAAAAGGGGAAAAAAAAAAGG AAAAGGAAAAGGAAAAGGAAGGAAAACCGGGGAAAACCAGAA G GAA A G G GAAAAGGGAAAAGAGAGGGAAAAAAGGCCAA GAAA A GAGAAAGAGGAAGAAGGACACGAATAGAAGGAAAGGGAAAA GAGACCGGAACCGGGGGAGGAAAAGGCCAAGGAAAAAAACCC GA $A$ A $\operatorname{G} A A G G G A G G G A A G G G G A A A G A A G G G G A A A A G A A G A G B A$ G GAGAACCGGAGGGAGGGAGGAAAAGGACAAAGGGGCCAAAA A GAAA A G G A A A GAAGAGGAAGAAAAGGGACAAAAAGGGAAAA A A G G A A A G A A A A A A G G G GCCAAGGCGCCAGAGAACCGGCAAA A GAGGGGGAGGAAAAGAGGGCGGGCCAAGGAAAAGGGGGAAA G G G G G G G G G G G G A A A A A A A G GAA A G G G G G A A G G A G A A A A G G A A A GCCAAGAAACCGGAAAAGAGAGGAAGGAAAAGGAGAACAAA A A A A G G GAGAACATCCAGGGGGCAGAGAGAGAGAGGGGAAAA G GCCGGGGAACCAAAAAGAAAAGGGGAGGGAAAGAAGAGGAG AAAAAGAGAGCAGACCAAAAGGCCAAAAAGGGGAGGGAGAGG A A GAGAAAAACCAGAGAAAAGAAAGAGGGGGAAACCGGAGAA C C G A G A G A G G A G G A A G G GCCGGGGAAGAGGGGAAA GAAA A A A G GAA A G G G G G G A A A GAAAGAGGACAGGAAGCGAGGGAAAAAC $G G A G A A G A A A A G A G G G A A G G G G G G A A G G A A G G G G A G A A A A A A$ TTACAGAAAAAAAAGGGGGAGGCAGACAGGAGGGGGGACGGA G G G G G G G G A A A A A G G GAGAAGAAGCCGAAGAAA G G GAAAGGGG GATAACGAAAGAAGGAAGAAACCCAAACAAGGGGGAAAAGAA A G G G G A A G G G A G G G A A A GAA A A A G G G GAGGAAAAAAGAAA GA G G G GAACCGGAAAAGGAAGAGGGGACGAAAACGGGGAGCCGG A A G A A A A G A G A A A A A A G G C C G G G GAAGAGGAGACCACACAAA AAAGAGAAAAACAAACAAGGAGCCGACCGGAGCCGGAGGGGG A A G G G GCCACAAGGCAAAGGAAGGGAGGAGGGGGAAGGGGGG G G G A G G A A A A G GAC GA GAGAGGAGGGCCGGGGAGGGCCAAGAG
 A A G G G G A A A A C C A G G A A A G G G G A A G GAAAA A G G G G G G G G GAA A GAAAAAAAAAAATTGGAGCAACACGAAGGAGAAAGAGAGGGA

A A G GAGAAAAGGCCGGACGGAAAAGGGAAACACCGAAGAAAG G GAAA $A$ A A A C C A G G G G G G G G G A A A G G G G G A A A A A T C A G G G A C A GAAGAAAGAAGGGAGAGGGGGGGGGGCCAAAGCCGGCAGAAA A A A A G GACGGGGAAGGGACAGAAAGGAGAAAATTAACCACAA AACCAAAAAAGGGAGAGATTCCCCGAAGGAGGAAACTTAGGG A G GAA A A A A A G GAAGGAAACGAGGGAAGGGAAAAAAAAAAAA A G G A A A G G G G A A G G G G A A G GCCGGGGAAACGAAGA GAAACAC AACCGGAAAAGGAAGGAAAGAGAACAAGGAAAAAAAAACCAA CAA $A \subset A G G A A A G G G G A C C A A G G G A G G C C G G A A G G G G G G G G G G$ AAAAAGGAGGGACCAAAACCAAAGAAACGGAAAAACAAACGG A GACGGAAAAAAGGAAAAACGGGGAAAACCAAAAAAAAAAAG GAGGGGAAAAGGGGACGGGACAAAGAAGGGAACCAAGAGGCC G G G G G G G G T T A GA G GAA $A \operatorname{G} \operatorname{A} A A C A G A G A G A G A A G G A A G G A G A A$ G G G GCCAAAAAAAAGGGGGGGGGGGGAAAAGGAACAAAAAAA
 AAGGCCAAAAAAACAAGGGAAAAAGGAGGGAAGGAACAGGGG A A GAGAGGAGCCGAAAGGGACAAGAAAAAAGGAGAGAAGGAG AA G GAAGGGGGACAAAAAAGCAGAAGACCAGAGGGGAGACAA A A A A A A A A A A A ACCACAAAAAAGAGGGGGGAAAGGACCGGGG GAAACCGGAAGGGAAGAGGGAAAAGGGAAAGGGGGAAAAABG AGAGGAGAAGAGGGTTGAGACCGGAAGGGGGGAAGAGGGGAA

 A G G A G G G G C C A A G G A C A G G A A G G G GAAA A G G G A A G G G G A A A A A A G G G G A A GACAATCAGAAGAGGAGGAGGGGGAAAGAAAAGBG AAAAGGGGGACCCCAAAAAAAAAAAAGAACAGAGGAGAGGAG AAGAGGAAGGAAAAAAGAAAAGAGCCAGAACAAGAGCAAAAA GAGAGGGGCAGAAGAGGGGAAAGGAAGGGGGGAAGGGAAAAA G GCCAAAAAAGGGGAAGAATGGGGAAGGAGAAGGAAAAAAAG AAAAGGGGAAGGGGGAACAGAAGAGGGGCCGGAGGGGAAAAC ACATAAAAAAGGCAAATTAAGGAACCGGAGAAGGAAGGGGGG GGCCGGGGAAAACCAACCGGAAAAAAAACCGGAAGGAAAAAA AAGGAACCAAGGGGAAGGCCGACCGGCCGGAAAAAAGAAAGG $G G A C G A A A G G G G A A A A A G G G G A C A G A A G A G A A A A G G A A G A G G$ G G A A G G G A G G G GCC G G A A A A G G G G A G C C G G A A A $\mathcal{A} A A G G G G G G$ A A G G A A A A G G A A A G A A G GA $A$ A A A GGGGAACCAAAAGGGGAAC C A A C C A C G G G G G G G G G G A A A A G GAGCCGAGGAAAACCGAAAAA GACCAAGAAAGGGAAACCCCAGGGACAGAAAAAAAAAGAGAA $A \subset A A G G A G G G A A G G G G G A G G G G A A G G A A A A A G G G G A C C A G A G$ G G G G G G G G G G A A G G A G G A G A A G A A G G G G G G A A C C G A GA G A A G G G G G G G A A A A G GAA A GAAAGGGGAAAGGGGAACCAAAAAAGAG G G G G A A G G GAGGCAGGAAGAAAGGAAACAAAAAAAAAACCAG G GACAAGGAAGACAAACCGGAAAAAAAAAGGGAAGGCAAAGB A A A A C C G G GAA $A \operatorname{G} G A G A G G G G G A A A A A A A G A A G G G G A A C A A A$ A A G G G A A A A A G G G GA $\operatorname{A} A A A G A A A A A A G G A G G A G A G G G G A A A A G$ A G G A A A A ACCAACCGGAAGGAAGGAAAAAAAACCGGGAAAAA A A C C G G G G A A G A A A G G A A G G C C C CA A A CAAAA $A$ A G A G G A G G G
 A GGACCAAAAAGAGGAGACCAAAAGGAACCCCGGAAGAAAAA G G GACCGGAAGAAGAGAGCCGGGAGGAAACGGAAGGAGAAAA $A A G G G G G G G G G G G G A A G A A A A A A G A A G G G A G A A G A G G G A G A A$ G GAAGGCCCCGGCCGGCCGGGGGGGGAAAGAGGACAAAAGAG A A G G G G A A G G A A C C G G A A A A A A C C C C GAGGGAGGCCCAAAAA AAAAGGCCAAAAACGGAAAAGGGGGGGAGGAGGAGAAAGGGA G GAGGGGGGGGGAAAGAAAACCGGGGGAGGAAGGGGGAAAGA G G G A G G G G A G G A G A G A G G A GAGGGAGGGAGAAGGGAGGAAAA

 G G G G G G G G G GAACCAAAACCAAGGAAGGAACCAAAAAACCBG
 C C G G A A A A A A A A G G G G G GAAAACCAAAAAAAAAAA G GA GCCGG G G G GAAGAGACCCCAAAGCCCAAAGGGGAACAGGAAAAAAAG G G G G G GAGAAGGGAAAGAGACAGGAAGGTTGAGGGAAGAGAG A GAGAGAAGGAAGGCCAAAAAGGACAGGGGAGAAGAACAAGA G G G G A A G G A C A G A G G G G G G G G G C C A G G G C C A A G G A G G A A G A A CAAAGGCCCCCCCACAGACAACAGGAAAAAAAGA GAGGAGAA AAAGGGCCGGGGAACCAGGGGGGAGGAGGGAGGGAGACGGAA C C G G G A G G A A C C C C G G A A A GAAAGGACCAACCCCGGGAGAAG AAAGGGGAGGGAGGCCGGCCAAGGGGAAAAAACAAGG
GACGGCCGGAAGGGGGGGAGGAGGCAACCAGGGGGAAAAGG A A A A G G A C A GA A G GAA $A \operatorname{AGGGGGGACAAAAGGGAAAACAGGGG}$ A GACAGAAGAGAAAGGAGAAAGAGAAGGAGGAAGCCAAGAGA A G G GAAAAGAGGCCGGAAAGAAAAAGAAGGGAAAAGCAAAAA G GAGAAGGAGAAAACCAGAGAAGACCAAGGCAAGAGCAGAAC ACAGGGAAGGAGAAGGGAAGAAAAGAGGGAGGGGACAGAC GA A G G G G A G G A A G G A A A G A G G A A G G G G G G A G A G G G GC C A A A A $\mathcal{A} A$ G G G A G A G A G G A G G G G G A G G G G G G G G G G G G G A A G G G G G G A G A $G$ GAAGGGAAGGAGGGAGAGAAGGAAGGGAAAGGAAGGAAAGAA A GAGAGGAGAGGAAAAAGGAAGACAGGGCCAGCAGGGAAAAA ACGGAGGAAAAAAAGAAAGAGGGGCAGACCCCAGGGAGAGGG A G GAGGAACACCGGAGGGGGGAACCCGAGGGGAGGGAGAAAG G GAAGGGGAGAGAAGGCCGAGAAGGGCCGAGGAAAAAAGGAA $G G A A A G A A G G A G A G G G G A G G G A A A G G A A C C G G G G A A A G A G C A$ $A G C C A A A A A G A G G G A A A G A A G G G A A A A A G G A A C A G A G G A G G A$ GACCGGGGGGAAGAAAAAAAGAAACCGAGGAGAGCAAGGGGG G G GAAAGGGAGAAAAACCGGAAGGAAGGACAGAACCCAAGAA
 GAAGAGGGAAGGGGAAGGGGCAGGACAAGGAAAAGGACAGAG CC GAAAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A A G A G C A G G A G A A A G G C A A G A G G G G G$ C C G G G A G G A A C A A A G G G A A A G G A A G G G GAA $A \operatorname{GGGGGGGAAAAA}$ AAGGAACGGGCCGGGGAAAAGGGGAAAGAGGGCCAAGGAAGA G GAGAGAGAAGGAAGGAAGAAGGAGAGAGGAAAAAGGAGGAA
 G G A A G A T T A A CAGAATGGAAAGAAAAGCAAAAGAGGAAAAG G AAGGAGCAGGCCGGAAGGGAGGAGAACCAAAAGACCAACCAG CAGGGAAGAAGAGGAGAAAACAAAGGGGGGAAAAACAAGGTA AC GAAAAGAAGGGGGGACAACCGGGGCAGGGGGACAGAAAAA A A G G A A A A A A G G A G A A G G G A G G G G C G A C A A G G T T A A A A A A G G G G A A A G G G GAGGGAGGAACCAAAAGGCCGAAAGAAAGAAAGG G G GAGGACAGAAGGAGGGAGCAAAAGCGCCAGAAGGAAAAAG A A A A C C A A A GA G G G G G A A T T A A A G A G A A A T A GCCAAAA G G G A AAAAGGGGCCAAGGGAAAAGGGACAAAAGGGGAAAGAGAAGG GAAGGGGGGGAAAAGGAAACAAGAAGAGAAGGATCCAAAGGG GAAAGAGGGAGGAAGGGGAAACGGGGAGAAAGAACCAGAACA
 $G G C C A A C A A G A A A C A G G A A G A A G G A A A G G A A C A A A A G G A A A G$ GACCGGGGGGAAAGAAGGCCAAAAAAGGAAAAAACAGGAGAA G GCCAAAGAACAGAGGAGGGAAGGAAGGCCGGAGGGCAGGGG G G G G G G A A A G G G G G A A A A G GAA A GAGGAGAAGAGGGGGAA G G $G G A G A A A G A G A G G A G A A G C C G A A G G A A G A A G G A A C C G A C A A G$ CA $A G G A A A A A C A A G A G G G G G G G G G G A A A A G A G G G A G G G G G G G A$ A G A G A A C C G G G G G G A A G G A G G G A G G G G G G G A A G G G G C C G A A $G$ G G G GCCGGGGCAGGGGAAAAGGAAAAAAAGAGGGGAAGCCCC A G GAGGGAAGCCGAAGGAACGACCGGGGAAAAGGAAAACAAA $A C C A A C A G A G G G A A G A C A G A C A G G G G A A C C A A A A A A G G A G A A$ G G G GAA A A A A A GCCGGAGCCGGGAAAGGGGAAAAAGCCAGAA G G G G G G C A G G G GAAAC C G A A A A G G GAAAAA A C C G A A G G G G A G G G GAGGGAAGGGACCGGAAGACGCCAGAGCAGAGGGAAAGGGG

G GAGAGAGGAAAGGAAGGAAAGTAGAAAGAGGAGGGGAAAAG GAAGAAAAGGCCGGAAAACAAAGGAAAAGAAAGGAAGAAGAT CACCCAGAGGAAGGAACAGGGAGAAGCAAGACAAACCAGAGG A GAGAAGGGGGAAAAACCAGAAAAGAAAAGGAAGAAAAGAAA GAGGAAAGGGGGAAGAGAGGGGGAGGCCGGACGGGGAGGGGG A A G G A G A G A G A A T T C C A A A G G G A G A G G G G A G G G G A G G GAAA $A$ GAAGAGGGGGAGTAGAAAGGAGGAGGAAAAACGGGGAACAAC AGGAAGCAAACCGAAGAAAGAAAAAAAAGGAGCCAAGGAAGG $A C C A A C A A G G G A A A A G A A A G C C A G G G A G A G C C A A A G G G A G G A$ GAGAGAAGACAGAGAGGAAACCGAACGGGGCCGAGGAGAGGA A G G G G G G G A A A A G A A GAGAAA A A GACA A A A A G GA G GAAA A G G G A A A A $\mathcal{A} G G G A C C G G G G G G G G G G G G G G G G A A G G A A G G G A A A A G$ ACGAAGAGGAAAAGAGAAAGCCGGAAGGAAAAGGAAAAGGAA A A G GAA A G A A A A A A A A C A G G G A A A G GAAA GAA G GAA G GA G A A A A G G A A G G A A G GAA A A T T G G G G A A A G G G G G G G A G A A A G G G A G AAACAAGAGGGGACGGAGGGGAAAGGGGCCGGAGCAAGAAAC
 A G GAGGGAAGAAAATTCCAGAAAAGGCCGGAAAAAAAAAAGG $G G G G A A G G G G G G G G G G G C G G G G A A A A G G A A A A G G A A C A A A A A$ G G G G G A C A A A A GAA $A \operatorname{G} \operatorname{A} A A A A G G A G A G A G A A G G A G G A A C A A G G$ GAACGAACAAGGAACCAGGGGGGGAGCCGGGGAAGGGGGAAA G G G GCCAAAGAGAAAGGAAGACGGCCAAGGAAGGAAAAGAGA GAAAGGCCAAGGGGCCAGGGGACAGAAGGGTTAAAAAAGGAA GA $A \operatorname{G} A A G G A G G G G G A G G G G G A A G G A G A C G G G G A A G A A A G G G G$ GAAGAAAA $A \operatorname{A} A G G A A G A G G G C A G T T A A A G A G A A G A A A G G A A A A$
 G GAGACGGACAAGAAAGAAGCCACAAGGGGAAAAGGAAGGGG $G G C C A A G G C C G G G G A A G G G G A A A A G G A A A A A A G G A A A A C C G G$ G G G G G G G G A A A A A A G G A A A A C C G G G G G G G GAAGGCCAAAACC C CAAGGGGGGAAAACCGGGGGGAAGGAAGGGGAAGGAAAACC G G A A T T A A G G G GAA $A \operatorname{GCC} C G \operatorname{CAAGGGGAAAAAAGGAAGAAAAA}$ AAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCAGAGAAGG AAAAGGGGAAAAACGGGGAAAAGAGGAAAAAAGGAAAGAGAA G G G G G G G A G G A A A A A G A GAAAAA A G GAACACAAACAAGACAA C CAA $A \operatorname{GGA} A A A A G A A G G G G G G A A A A G A A A A A G G C C C C G G A A A A$ GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGBAAAAGG G GAAAAGGCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGGG G G G G G G G G G G G G T T A A G G G G G G G G A A C C G G G G G G G G A A A A G G
 A A T T C C A A C C A A G G G G G G G G G G A A G G A A G G A A A A A A A A A A G G AAAAGGGGAACACAGAGGGGGAACGAAAAAGAGAAAAGAAAG GAAACCAAAAAAAACAAAGGGAGAAACCAAGGGGAAGGAAAA $C \subset G A C C A G C C A A A G A G A A G A G A A A G A G G G A G G G G G A A G A A C C$ GAAACAAGAGAAGAGGGGCCGGCCGGGGGGAAAACAGGAAGG A GAGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGAG A A A C GAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAAAAAAA G G G GAAGGAAGGAAGGGGCCAAAAAAGGAAGGAACCCCAAAA
 CAAAAAGAGGAAGACAAAGAAAGGAGGGAGAGAAAGGGAAAG G GAGACAGGGCACCGGGAGAGGCCACAACCAAGAAGAGAGAG

 GAGGAGACGGGAAGAGGAGGGGGAGGAACCAGGGCCGAAGAG A GAGAAAAGGGCACGGAGGGAAGGGAGGGAGGGGAAGGGGGA GAAAAAGGGGGGGGAGGGCCAAAACCAGGGAAGGGAGGGGCC A A A C G G A A G G G C G G A T A G A A A A G G G G CA G G G G G G A A C C A C G G GAGAAAGGAAGGCCAGAAGAAGGGGGGGGGAGGGGGCCAGAA A A A A G GAACCGGCCGAGGGAGAGGCCGAAAAAAAGBAGACAA CACCGGAAGGAAAAAAAACCAAAGAAAGAAGGGGGAAAAAAA

AAGAGGAAAGAAGAAAAAGGGGAGCCAGAAGGGGAGCACAAA
 A A A G G A G A A G A A G G G G A A G G G G G G A A A A GAGAG GAAA GAAC C AAGGGAAAAGGAAGAAAGAAAGCCAACCCAAAACAAGGAGGG CC GAAAAGGGAGGGAAAAGAAGCCGGGAAGGGGGGGAAAAAA C CAA A A G GCCGGCCGGAGAAAAACAAAAGGCACAGGGGGGAG A A A G A A ATGGAGCACCAACCAAAAGGAAACGGAAAGCCAAGA C CAA A A A G G G G A A A A A A GAGAGAAGCGGAGGCGACCAAAAAG G G A A G GAGGGGAGAAAAAGAAACCGAAAAAACGAAACAAGAC $A G T A A A A G G A A G G G G A G G A A G G A A A A G G G G A A G G G G C$
AAAGAAGAAAAAAGGGAGGGGAACGCGAAGGGGAGAAAGAG A G G G GAAGCCCCAAAACAAAAAGGAGAGGAAGAGATAAAAAA
 GAAAGGCCGAAGAGAGGAAGAAGGAAAAAACCAGACGAGGGG AACCGGGGAAAGGAAAGAAGGACCGGTAGGGGGGAAGAAAAA AAAGAAAGAAGGGAAAGGGAGGGGAGAAAAAAAAGGGAGGAA
 GAGGGAGAGAACACGGGGAAGGGGAAAAAAAAAACCCCAGAA GAAAGGGGAGGAGACCGAGGAAGAAATAAAGGGAGGCCAGAC AAAGGGGGAAAAGGAACAAAGAGAAAAGGAAAGGCCAACAAA $G G C C C G A A A A G G G G G G G G G G G G G G G A A G G A G C A A G G A A G G G G$ G G G GAA $A \operatorname{GGGA} A G G A A A A A C G G C C G G C C A A C C A A G G G A G A G A$ A G GCGGAAGGGAAGGAAAGGAGGAAGCCGAAAAAAGAAGAAG $G G A C A A A G A A A A A A G G C C A A C C A G A G G G A A A A A A G A A G A G B A$ A G G G G G A A A A A A G G G G A G G A A G G G A A G A A G G G GA G A A A G G A A GGCCACAAATAACCCGAACCGGAGAGACGAGACAGGAAGGAG CAAAACAAAAAGAAGAGGGGAAAAGCAGCAGGATCCAGAAGA G GACCAGAGACCGGGGGGAAGGAACCAAAAGGGGCCGGAAGAG G G G G A A G G CA G GAA $A \operatorname{AGGGGGCCAGAAGGAAGGCCGAAAGAAG}$ AGCCCCAAGGAAAGAGGAGAGCAAAACATAAGAGGAAAAAAG $A G G A G A G A A G G G G G G A G G G G G G G A A A A G A G A A G A B A G G G G G G$ $A C G G G G C C G G A G G G G A A A G G A A A A G G A G G G A A G G G G A A G A A A$ G $G A A G G G G G G G G C A G G C C G G G G G A C C C C A G G A G G A A G A G A C A$ $A G G G A A A G G A G G A G G A C C G A A C G G A G A A A A A A A A G A A C G A G G$ A A G GCCAAGGAAGGGGCATTAGAGGAGGCCCCAAAAGGGGAA G G G G G GCCAAAAAAGGCCGGAAGGAAAAAAGGGGAAGAAACC AACCAAAAAAAAAACCGGAAAAGGGGAAGGAAGGAAGGGGGG
 A A G G G GAA A G G G G G A A C C G G A A G GAAAAAAAAACCAAAAAA G G G G G G A A A A A A A A G G G G G G A A A A A A C CAA A G G GTTAACAAA G G $C \subset A A A A G G G G A A G G A A T T G G G G A A A A A A G G C C A A G G A A G G G G$ A A A A A ACCGGAAGGAAGGCCCCAAAAAAGGAAAAGGGGAGAA AA G GAAAAAAAAGGAAAACCAAAAAAAAGGGGAAAAAAAAGG G G G G A A A A A A G G G G G G G G A A A A A A A A A A A A C C G GAA A A G G G G A A G G G GAA A G G G G G G A A A A A G G G G A A A A A G G G G G G G G G G G G G G G G G G A A T T A A A A A A G G C C A A G G G G A A G G A A A A G G G G G G C C G G G G G G G G A A A A G G G GAAAA A G G G G G GAAAAGGCCCCCCAAGGCCCC $C C G G A A A A A A A A G G C C A A G G C A G G C C G G G A T A G G A G A A G A A C$ G GAGGGAGAAGGAAGGGGAGGACCAACCGGCCGGCGGGGAAA G G G G A A A A G A G G G A G G G A G G A G C A G G A G G A G G A A G G G G G G G A $A \subset A A G G G A A A A G A A G G C C C A G A A A G G A A G G A A G A A A G G A G G G$ A A G G G GAAAA A $A$ A A A C C G G G G G G G G CC G G A A G G G G A A G G A A C C G G G G G GAA $A \operatorname{GAA} A G A A A G A A G G A A A G A G A G G G A A C C G A A A G B$ AAGGAAAAGGAAAAGGGACCGGCCAGAGAGAGACAGGGCCAG G G G G G GC CA $\mathcal{C} A \mathrm{~A} A A A A A \operatorname{A} A A A A A G G A A A A G G G G A A G G C C G G G G$ $G G A A A A A G G G A C A G G G G G A A A G G G G G C C A A A A C C G G G G A A A A$ AAAACCCCGGAAGGAGAACCGGAACCAACCAAGGGGGGAGAA G GAACCGAGAAAGGAAGGGGAACCAAACGGGGGGCCAAAAGG G GAGGGAGGGAAGAAAACTTGGGGGGAAAAAAAAGGGAAAAG

C GAGGGGACGCAACAAGGGAAGGGGGCCGGAAGGGGGGAAGG G GAGGGAAAAGGGGGGAAAAGGGAAGAACAAGGAAAA GAAAA G GAA A A A G G GAGGAGACCAGGGAAAAAAAAAAAAAAAGAGAA AAAAGGCCGAAGAGGAAGAGGGAGAGGGGAGACCGGGAGGGG GGAAGGCCCCGGAAAAAGCAAAGGCCGAAAAAGGGGAAAGAG A GAA A G G GAGGAAAAAGGACCCGACCACGGGGAGAGAGAAAG A G GAGAAGAGACAGCGGAGGAACCGGGGAACAACAACAGGAA GAAGCAGGGGAGAAGGGGGGAACCAGCAGGGGAAAGGGGGGG G GAACCGGGAAAGAAAGGGGAAAAGGAAAAGGAAAAAGGGGG AAAGAGGACCAAGGCCGGGGAAAACCAAAGAAAGGGAAGGAA
 GAAGGGAGGGGGGAGGAAGACAAGCCGGGAGGGAGGAGAAGA G G G G A A G A A GCCAAAAGGAAGGAAGGAAAAGGGGGGAAAAAA G G G A A A GAGGGAGAACAAAAAGCAAACAAAAGAGGAAGAGAC C C A A C CAA A GCC G GCC G GTTAGGGAGGGGGGAGAGGAGAGGA G GAA A G G GAGAGGGGAGAAAGGCCGGGGAAGAGGGGGAAGAA A GAGAAAAAAGGAAGGGGGGCCACACAAGGAAAGAAGAAABG A A G G C A G G A G A A G A A A G A G A A G G G A GAA G G G G C C A A G G G G A A G G G G G G C C A G G G G G A G G G G A A G A A G G GA A A CAAACATAA A C C G G G G A G A A G G A C G G A A G A A GATGAAGGAAGGAAAGAGAAAA G A AACAGAGGGGGGGAAAACCAAGGGGGGAACCGGCCGAGAGA A G GAAAGGGGGACCAAGAAGCCGAGAGAGACAAACAGAGGAA A G G A C C A A A A G G G G G G A A A A C CAACAAAAC GAGGG GAAAA GA GA $\operatorname{G} \operatorname{G} A A \operatorname{A} G A A A G G G G A T A A G C A A G G G A G A G G G G G G G G G A A C A$ C G G A A G A G A A G G G G A G A A G G G G G A A A A CAA $A$ G G G G A A C A A G G A GACACAGACAAAGACAAGGAAGAAAACAGGAAGAAAGGGGGG G G G G G GAAAAGAAGGGAAACAAAAGAGAGAACGGAAGGAAAG A A A A A A A A G G G GCCAAGAGACAGGAAAGAAGGAAGGAAAAAA G G G G A G A A A G G G GAAAA $A \operatorname{A} G A A G A A A G A A A A G A A G A C G G G G G G$ AGAAGAGGGAACAGCCGGAAGGAGAAAAAAAGCGAAAGAAAA G G G GAAAAAAAGAAAAAAGGAAGGTAAAGGAGAAGGCCCAGA GGAACAGGAAAAAGACAGAAGAGAAAAAGGCCGGAGGGGGAA A G G G GAGGCCAAAGAAGGAGAAGACCGGAAGGGGGGAAGGGG
 G G G G A A A A G G G G G G A A A A G G A A A A G G G G A GCC G GCC C G A A G G C A G G G G A A G G A A A A G G A A G GAA A A A A C C G G C C A A G G G G A A G G T T G G G GAAAAAAGGAAGGGGGGCCAAGGGAAGAAAACAAAGA $C \subset G G A G G G A A A A A A A A G G A A C C C A G A A G A A A A A G G G A C G G C C$ G A T A A G A A A G A A A A G G GAAA $A \operatorname{AGGAGGAAGGAAAAAACAAGAG}$ G G GCACAGAAAATAAAACAACCGAAGAAAGGAAGGCCAAAAA G G A A G GAA $A \operatorname{GCC} C A A G G G G G G G G G G A G A A A G A A A A G G A A G G G G$ G G G G A A G G A G A A A A A GAGCAAAAGGGCAAGGAACGGAAAGGG AAAAGGAGAAGAGGCACCGGGAAGACGAAACCAAAGGGGGAG G G G G A GAAAACCGGCCCAAGGGGGGAGAAAGGAAGGGAAAAG G G G GCAACAAGAGAAGACTTGGCACACCAAGAGGTTAATTAA G G G A G A G A A A A A A A G G G A A GAGGAGAGGAGAAAAA AAAA A A A A CAAAAGGGGAAACCGGGGAAGGGGGGGCACGGGGGAAACAAG A A GAGGGGGGGAAGTTAAGGGGCCGGCAGGCCCCAAAAAAAA G GAAAAGGAGCGCAGAAGGATTCCCCAAGAGGCCCCGAGGGG GGCCAGACAGAGGGAGAAACGGAAGGAACCGGAAAAAGAAAA
 A GAAA A A A A G G G A A $A$ A $A G G G G G A G G G G G G G G G G G G A G G C A A G A A$ A A G G A A A A G C A G G A G A G G C C G G G G T T G G C C G G A G G C A G A A A A ACAACCAAAAAAAAGGAGGGAAAAAAAGGAGAAAAAGGGGGA
 $G G A A A G A A A A G G G G G G A C A G G G G A G C A G A A G G G G A A A A A G G G$ G G G G A A G A G G G GAATACCAACGAGAGAAAGGAAAG GAAAA GA G G A T A G GAA $A \operatorname{GA} A X C G A G C C C C G A G G A G G G G G G G G G A A G A A A$ $A A G G G G G G G G A A A A G G A G A G G G A A A A A A A G G G G G G A A A A A A A$

A GAGGAGGGGAAAGAGGGGAAAGAGAAAAGACAAGGCCGGGG A A G G G GCAAAGGAAGGAACCAAAGGGAAACAACCGAAAAA GA G GAATTAGTTAAAAAAGAGGGAAAAGAAGGCGAAAGAATTAA
 AAGACCAAGGGGGAGACCCAAGGGGGGGAAAAGAAAGGGGAC A A C C A A A A A A G GACCAGGCCCCGGGGAAAAGGAACCGGAA GA AAAA A GCC CA G GAAAAAGGGGGGGAAAAAAAAAAAAAAAACC
 G G A G A C G G G G G G G G C G C A G A G G A A A GA G A A G G C A A A G G A A G A AAGGGGCCGAGGAAAGGGCCCCACCAAAAAAAAAGGG
GCAGAAGGGACAAGGGGCCGGAAGGAACCAACCCCAAGCAG GAGGGAGAGAGGAAAACCAGGGGGAACCCCAAAAAAGAAAGG A G G A A T G A A A A A GAGGAAAAGGGAGGGGGGAAAAGAACAAAA A G A G A G G G G G G G A A A G A G G G G G A A A A GAAA A G A A A A A A A G A A AAGGGGAACAGGAAGAGAATAGAAAAGGAAAGCCGACCAAGB AACCACGAAAGAAACCGAGGAAGAAGAGAAGGAAGGAACCGG G G A A A A A A G G G A G G G G G G G G A G A A G G A A A C G A G G A T C G G G A G A A GAA A GAAAAAAACCAAAAGGGGGGAAAAGGAAGGGAAGAA A A G G A A G GCCAAGGAGAGAAGAAGCCAGAAAAGGGACCCCGG G G A G A A A A C C A GC G A G A G TAGAAAAAGAACAAGGGGAGACA G AGAAAAAGGAAGCACAGAAGGAGGAAAGGGGGGGGGAGGAAA AAAAAAAACCCCAAGGGGAGGGAAAGGAGGAAAAAAGGAAGA
 AC G G G GAACCTTGGAAAAAAAAGGCCAAGGGGAAGGGGAAGAG G G G G A A C C A A G G G G A A A A A A A G G G G G G G G G G G G G G A A A A G G G G
 G G G G G GAACCAAGGGGGGGGGGAAAAAAAAAAAAGGAACCGG $G G C C T T G G G G G G G G G G A A G G G G A A A A A A A A G G A A G G A A A A A A$ $A A C C A A A A A A G G A A G G G G A A G G G G G G A A G G G G A A B G G G G G G G$ A A G G A A A A G G G G G G A A G G C C G G A A G G G G C C G G G G A A G G G G G G G GAA A GCCAAGGGGCCGGAAAAAAGGAAAAGGAAGGGGAAAA T TAAGGGGGGCCAAGGGGGGGGAAAAGGGGGGGGAACCAAAA G GAAAAGGAACCGAAGAAAAGACCAACCGAGAGGAAAGAAAT G GAAATAGCCAACCGGAGGGAAAAGGAAGGGAAAAGCAAA GA GAGGGAAGGGAAGGAAGGAAGGGGGGGGCAGGAACCGGACAA G G A A A GCAA $A \operatorname{AAA} A A A G A G G G A A G G G A A A G G A G A A A A G G A A A A$ A G G GAA A ACCGGAAAATTGGAGAAGGGGAAGGAAAA GAGAGGG A A G G G GA GAGAGGGACAAAGAGGGAGGAGGAAGAA GCCGGGG GAAAAAGAGGGGGGGGGGCCGGAAAAGGGGCCGGCCGGAAAA A A A ACCAAAAGGAAGGCCAAAAAACCAAGGAAAAAAAAGGGG $G G G G A A G G G G A A G G G G C C G G A A G G G G G G G G A A G G G G A A A A A A$ G G G G G G A A A A A A A A A A A A G G A A G G G G G G A G G G A A T T C A G A G G G GAGGAAAGAGAAACAAGAAGGAAAAAACCCCGACCAGAAAA G GAAGGGAAAGGAGAGCAAGCCAGCCGAGAAAAAAAAGAGGG G GAGAGACGAAGCACCGGAAAGGAAAGAACAAAAACGGGGGG A A G A A C G A A A A C G G G G G G G G G G A G A G G A A G G G G G A A A A A A A A A A G A G G A A A A C C A A G G G G G A A C G G A G G G A T C G G G A A G G G G C C A A G GAAAAAAAGAAACAAAAGGAGAAGGAAAGAAAAAAAAAA

 G G G G G G A A C C G A C A G G A A G A A G G A A T TA GAGGGGAA GAAA GA G GCCGGGGAAGGGGAGAAGGGGAAAGAGCCAAGACACCAGAG ACTAGAGAAAAAAAGGAAGGGAGAAAGGAAGGAAGAGAAACC CAAGGAGACCAGGGAAGGCCACAAGGGAGGGGGAAGAGAAAA G GAA A A GAAAAAGGGGAAGGGGGGAAGGCCCCAGGAAGCCGG TAAAAAGAGGGAGGGGCAACGGAAAGAGCCGGABAAGAGGGG
 $G G G G A A A G A A G A A G G A A G A G G A T T A A A A G G A G A G A G A A G G G G$ $A G A C A G A A G G A A A A G G A G A G A A G G A C G G A G G G A A G G A A G A A A$

A A G G G G G G A A G GAAAAGAACAGAAGAAAGGGGAAGAAAATAA ACAGAAGACCAGGAGGGGAAGGAGAAAGCCAAAGAAGGAAAA CAGAAAGATTGGAAGGGAAGACGGAAAAAAGGAAAACCGGAA GAAAGGGGAAGGAAAAGGAGGGCCAAAAGGGAGAGGGGAAGG G GAAGGAGACAGCAGGGAAAAGAGGGAAGGGACAAAGGAACAA $C \subset G G A G G A A A A G A A A A G G A A G G A A A C G A G A G A A A A A G A C A G A$ G G G GAAAAAACCGAACGGAAGGAAGAAAGGGAAGGAAAGGAG $G G A G A A C C G G G A G G G A G A A G A C G G G G G A C C A A G G G G G G C C A A$ A G G G G G G G G G A G A G G G A A G G G A G A A G A G A GAA $A$ G A A G G C C C A $A C A G A A G G G G G G A A G G A A G A A A G G G A G G G A G A A A G A A A A G G G$ A G G GAA $A \operatorname{GA} A G G C C A G A A G A G G A G G G G G G C G G G G G G A A G G C C$ G GCCAGAAGGGGCCGATTAAGAACAAAGGAAAAAGGAAAAAA A G A G A G G G G G C C A A G G GAGGAAGGAAAAAAGGAAAAAAAGAC C C G G G G A A G G A A G G G G A A A A A A G G C C G GAA A G G G G A C G G G G A G GAGGCGAGACCAAGGAGGGCCAAGGAAAAGGGGGGGGGGAG A GAGGGACGGAAGGGGGGAGGGAAAGGACCAAAAAGGGAGAG G GCCAAAAGGAGGAAAGGATGGGGAACCAAGGAGAGAGAACC G GAGAAACCCAAACGACCAAAGGGAAAAAGAGAGGGGAAAAC TACAAAACACAAAAGAGGAAAAAGCCGGAAGAAGAGAAAAAA A A G G A A G G A A C C G G A A A G G A G G A A A A G GAAAACCCCAA G GAA G G G G G GAA $A$ A $\operatorname{A} G A C A A G A G G G A A A A A A A A A A A A C A G C C A A G A$ CCGGGGGGAGAACACAAAACAGGGAAGGAAAAGAAGGGCGGG AAACGACAAAGGAAAAGGAAAAGAAGAAAGCAGAGGAGCCGG A ACCAAGGAGGGAGGGAAGGGAGGGGGGGACCGACCGAAAGG G G A A A A A A A A G GAAAC G G T T G A A A GAGGAGAGAAAAGGAA GA G GAA A G G G G G G GAACCAAGGAAGGAAAAGGAAAAGGAGACAG AACCAAAGAAAGAGAGAGAAAGGAGGAGGAAAAGAGAAAAAA $A G C C A G G A C A G G A A A A A G A A G G C C C C G G G G G G A G A G G A A A G G$
 AAGGGGCCCCAAAGGAGAAAGACGAGAGAAGGGGGGAAGGAA G G G G A A A A G G G G G A G G GAAA A G A GAGAAAA A A G G G C GAA A A $\mathcal{A}$ GAGGCAAGAGGGAAGGAAAGAAGGGAAGAGAAGGGGAAGAAA
 A A T T GCAGGACCAGGGAAGAAGGAGGAAATAGGGGGAAGGGG
 A G G A G G G G G G A G A G A A A G G G G G A A A A G G C C G A G G A A G G A A G G AAAAGGAAAAAACCGGAAAGGAAAAGAAGGGGAGAAGAAAAG $A G C C G G G G A A G A G A A G A G A G A A G G G G A G G G A C A A A A A G G A A A$ A G A G A A A G A G A G A A G G G A A G G A A G GAA $A \operatorname{G} G A G G C A G G G A G G A A$
 $G G A A A A A G G A G G C C A A A A A G G A G G A A A G G A G A G G A A A A G G G G$
 AAGGGAAGGGCACCGGAAGAGAGGAAGAGAGGGACCAAGAAC C C G GAAACAAAAAAGGAAGGAAGAAAGGGAGGAGAAAGAGAA $G G A A C A A G G A G G C C G G A A A A A G G G G A A G G G A A G A G G G G A A A G$ ACGGAGAGGGAACCCCAAAAGGGGAAAAGGAAAACCGGCCGG C CAGATGAAAGACACCGGGAAAGAAAGGTAGGGGCCATGGGG G G G G G A A GAGGGGGAAGGCCAAAGCCAGGAAAAATTAAAAAA G GAAGGAAAGAGGAAAAAGAAAGGAAAAAAAAGGAACCCCCC AAAACCAAAAGAAGAAGAGGAAGACAAAGGGACCAGGGAAAA G G G G A A A A A A G GAAAAAAAGAGCCACCAGGCGGGGGGAAAAA G G G GAA A G G GAAACAGAAAACAAGGAGGCCAAGGGAGGAAAAA AC G A A A G G G G A GAA $A \operatorname{GGGGA} A G A G G A A G A C A G G A A G G A A A A G A$ AAGGAAAAAGGAACAAAAAGAAAGCAAAGAGAAGGAGGACAG
 A G G A G A G A C A A GAAAAAAGAAAGGAAGAGGAAACCCGGGGGG GATTGAGGGGCCAGAGAAAACCGGGGAAAAAGGGGGGGGGGG G GCCGGGGAAAAAAAAGAGGAACGGGAAAAGAAGGAGGAGAA G G G GAGAAGGGGGGGGACGGAAAGACGACAAAAAATAACACC

AAAACACCAAGGAAGGGAAAGAAAGGAGGGAAGGGGAGGGGG $A \subset A A G G A G A G G G G G A C A A A G G A C A G C G A G A A G A G G A G A G C G G$ $G G A G C C C A G G A A G G G G A A A A C C G G A A A A A A A A G A G G A A A A C A C$ A G G G G G G G GAA A G A G G G GAGAAGAGGGAGGAGAAAACAAAAA G G G GAGAGCAAAGAGGAAAGGGGAGGGGGAGGAAGGAAGAAA G GAAAAGGAAAAGGAAGGGGAAGGGGACAGGGAAAAGAAAAA G G G G A A G A A A A C G G G G G A G A A G A G A A C C A A A A G G G G G G T T G G GGAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGGAA G GAA A G G GCCAAGGGGAAAATTGGAAGGAAGAAGGACAGGCA AAAAGAGGAAAGGGGGCACCGACAAAGAAGACAAGGC
C $G$ A A G G G A A A A A A C C G G G G G G G G G GAAAAA A G A A A A A A A A $G$ G GAGGACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGAA G GAA A G G G A A G GAAAATTAAAAAGAGAAAGAAGGAAAAAGAA AAAAAAAGGGGAGATTACCCAGAGAGGACCCAGGAAGGAAAA G G G G GACACAGACCAAGGAACAAAGAAAGGAGGAGAAAAAAA $A G C C A G A A A A G G G A G G A A G G G G A A G G G G G G A G G A A A G G A G G G$ A GAGAGGAGCCAACGACAGGAAAGGGAAGGAAAGGAAGAAAG GAGAGGGGGGGGAGCCGAAAGGCCAGGAAGGGGGGGAGAAAA AACCAAGGGGGAAGCCAAGAAAGGCCGGAAAAGAAGAAGAAC A G TAAAG GAAAAAAAACAGGAGAAGGAAAACCGGAAGAAACA AACCCACCATGGGGAAAAAAGGAACCAAGGAAGGGGGGGGAA G GAAAAGGAACCAAGGGGCCGATAGAAAGGGGCCAAAAGGAA GA $\operatorname{G} A A A A A A G G G A A G A A G A A G G G G G G G C C G G G G A A G G G G A A A C$ A A G GAA A G G G A A A A A A A A A A A A G GAAAA A G G G G CAA A A A A A A G GACCGGAAGAGAGAACCCAGGAGGAAAGAAAAAAGGGAAAAC G GAAAAAAGGGGGGCAGGGGGAGGAAGAGAAAAAGGAGGGGG GAGAAGGGAACCGGAAGGAGGAAGAGAGCAAAGGAGGAAAGA G G G G G G G G C A G G G G G G A A A A C A G GC CA $\mathcal{A} G A G G G G A T G G G G A A$ A A GAA A G G A G G G A A G G G A G G G A G A GAGAAGACAGAGGAAGAG G G G G G GAGGGAAACGGAAAAGGAAAGGGAAAACAGGCAAAGA GAGAAAGAGAACCAAAAAGAAAAAGGGGGGGGGGGGGGAGA$G$ $C C A G C G A G G G A A A G G A A A C A T A A A G G G G G G G G A A A C G G A G G A$ G GCAAAACGAGAGAGGAAACGACAAGAAGGAGATAAAAAAAA AAGGGAGAGACAGACAAATAAAGGGGGAAGAACAGGAAAAAA A A A A G GAA A $\mathcal{A} G G G G A A G G G G A A A A A A G G A A A G A A G A A C A A G G$ C CAGGGAAGGAAGGGACGACCCAGGGGGAAGCAAAAGGAAAA AACCGAAGGAAAGGGGGGAACCGGGGAACCAAAAAGGGGGAG A G G GAAAA A G G GAGGGAAAGAAGGAGAACCCCGGAAAAGGGG A A G GACGGGGGGGGAGAGCAAGCACCGGGAAAGAAGAGGGCC AA $A \operatorname{GGGA} A A A A A A A A C A C A G A G A A G G A A A A A A G G A A A A G G B A$ A A A A A A A A G G G G G GA $\operatorname{A} G A A A G G A A A G G C A G G G G G A G G A G G G G G$
 GAGGGGGGAAGGACAAGGGGAAAAAAAAAAAGGGGGAAGGGA A GAA A GACGAGGGGAAAAAAACACGAGGAGAAGGGGCCACAAA A GCAGAGGAAAAGGAGAAGAAAGGGGCAAGGAACAGAGAGAC A CAACCCCCCAAGGAAGAGGAAGGAAAAGAAAAGGGAAGGGG $G G C C G A G A A G A A A G G G A A C C C C A G G G A A C C A G A G G G G G A A A A$ ACGAACAGGGAAGAAAGGAGGAAGAGAAAAGAGGATCAGAGG A GAGGAAGCCGAGGGGCCAGAGGGCCAGGGGGAAGGAAAAGG G G A G A GAA A G G G G G G G A A G GACAGCCAAGGGGGGAAGAAAAA $A G G G G G A A A A G G G G A G A A A A G A A A G A G G A A G G A A A G G G A A G A$ AAAAGGGAAAAAAGGGGAGGAGAAAACCGGGAGGGGAGGGGG A A A A GCGGAGGGAAGGGAAGGGCCAAAAAGGGGAAAAAGGAA GACCAGCAGAAAACCGAGAAGGAAGGGGGGCCGGCCGAAGAG GAAGAGAAAAGAGGAACCAAGGAGGGGGACAAGGAACAAACC A A A A G ACAAC GAAAAGGGGGCCACGGAAGGGGGGCCAAGGGG AAAAGAAGAGGAAGGAAAGGGGAAAAAAGGAAGGAAGGAGAG $A C A A G G A G A A A A G G G G A A G G A A G G A G G G A G A G A A A A C A A A A G$ $G A C C G G A A A G A G G G G G C A G G C C G G G G A A A A A A A A G G A A G A G A$

A G GA $\operatorname{A} G A C G G G A G A A G A G C C G A A G A G G G A G G G A G G G A A G A A A$ G GAGGGCAATAGCCCCGGACGAGAGGGGGAAAGGGGAGEGAG GAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACAAGAGAGAA AAGGCCGGGGAAGGAAAAAAGGGGGGCCCAAAAGGGGAACAA AA $\operatorname{A} G A A G G A C G A G G G A A A G G G A A G A G G A A G G G G G A A G G G G A A$ A A G G A A C C A A G G G G G G G GAAAAGGGGCCCCAAAAAAAAATAG A GAACCAAGGGGAAGGCAAAAGGAGGAAAGAACCAAAAAAGG
 $G G A G G G A A G G G A A G G G G G A G G G A A A G G G T A A A G A G G A A G G B A$ GCGGGGGACCAGAGAAGGAGAGGGGGAAAAGGAAGGGGGGGG A A A A A A G G A A G G G GAAAGGGGGGACAGAGCGAAGTTGGACAA A A G G A A A A G GAAAAGGAACCAAGGAACCAAGGGGAAAAAAGG A ACCAACCCCAAAAGGGGAGCCCCACAAAGGGCACAAACAAA G G G G G GAAAAGGAAAAAGGGCCACAGGACAGAGGAAGGCCCC GAGAAAGGAACCAAAAAAGAGAGGAGAGAAAACCGGGGAAAA G G G GAA $A \operatorname{GA} A G A C C G G C C T A G G A C G A A A G G G G G A G G G G G A G G$ G GACGGAGGGGGGAGAGGCAAAGGAGGAGGGAGAAAAAAGGG AA G G A A A A G G G GCCACAACCAACAGAAAAGAGAAACGGAGGG A G G G G GA G A C A A G G G G G G G G G G A A A A G G G A A A G A A A G A A A G A A G G G A A A A C C G A G G A A A A A G G G GAGGCCCCAAGGACGGAAAA GGCCAGAAAAAAGGGAAAAAGGGGAAAACAAGAGGGAGCCGA AAGGGGCCGAACACAAAAGAGAGAAAACGGGGAAAAGAAAAA G GAGCAAGATAGGGAGGGAGGAGGAAAAAAAGGAGACCAA GA A A A A A A A A C CA A $\mathcal{A} G G G G G G G G G C C A A G A A C A A G G B A A A G G G G$ G GAAGGAGAGTTGGGGAAGGGAGAAAAACCAAGGAAAACCAA A A G G G G G G G GAAAAGGAAAACCGAGGAAAACCAAAAAAGGGG $C \subset C C A C G G C A G A G A A A G A A C A A A A A A A A C C A G G A G G G G G G A A$ G G G G G G A A C C A G G G G G G G G G G G A A T A A $\mathcal{A} G G G G G G G G G G C A A A$ G G G G A G A A A A G G G G A G G G A G G G G G G G A C G G C A G G G G A G A G G G CAGGGGAAAGGGGGAAAAAGGAGGCCCCAGGAGGAGAAAGAG G GAAGGCGAAGAACGGCAGGGGAAGGAACCCAAAAAAGAAGB GAGGGAGAAAGGGGAAAACCAAAAGGGGGGAAAAGAAAAAGG A ATTAAAAGGCCGGGGAAAAGGAAGGAAGGGGAAAAAAAAAA AAAAAACCGGGGCCAAAAGGAAAAGGAAGGAAGGAAAAGGGG A A G G A A A A G G G G A A A A $\mathrm{A} G \mathrm{G} G \mathrm{GA} A A A A A A A A A A G G T T G G G G G G A A$
 AAAACCGGGGAAAAAAAACCAAAAGGAACCAACCCAAAAACC AACCCCGGGGGGAACCGGAAAAGGAAGGAAGGAAGGAA G GAAA G GCCAAAAAAGGGGGGGGAGGGGAAGCACCAACAGGGAAAGA A G G G G A C C A A G G G A A G G G G G A A G G A A C C GAGGACTTGAAAAA $A C G G A A A G G G G G G G A G G A A A G G A A G G G A A A G G C C A G A G A G A A$ A A A A G GAA A G A A G A A GAC G GAGAGGGAGGAGAACACAA G GAA C C G G A A A G A A A G GAGGAAAAAACACAAAGGGGGGAAAACC G G A A G G A A A A G GC C A A G G G G A A A A G GCC G G G G G G C C A A G G G G G G G G G G A A G G G G G G G G G G G GCCGGAAAAGGAAAAGGAAAAAAAA

 G GAGACCAAACCAAAAGGAAGGAAAAAAAAGGGGGGAAGAAA G GAGCCGAAAGGCCGGACCCAAAAAGCCGGCCAAAAAAGGGG A A G G G G A A G G A A G G C C G A G A A C G G A GAGGGCCAATTGGAACC G G G G G GAACCAGAAGGAGGAGGCAGGCCACCCCAAGGGACCC $A C G G C C A A A A G G G C G G G A G G G G G G A A A A A A G G G G A A G G A G A A$ A G A A A G G G A A A A G G A G A A A A C C A A A A G G G G G G G A A A G G G G A G A A G G G GCAAAGAAGAGAGAGGAAGAAAGAGAAAAAGGAAGAG G GCAGCAGGGCCAACCAAGGGGTAAAGAAGAGGAGAAAGGGG A A G G GAGGACAGACCAGGGGAAGGGGGGAAAAGGGGAAAAAA A GCAACAGAAAAGGAATAGGAGGGGGGGAAGGAGAAABCAGB A A A A A A G A G G A A A A A A GAA A A A A A G GAGAGTTGGGGAACAAA G GAGCCAAAAAAACGAAAGGAAGAAAAAGGACAGAAACAGAC

GAGACAAAGAAGGGAAGGGGAAAAGGAAAAGGAAGGGGCCTT $A G A G G A G G C C G G A A A C G G A A G G G G G A A A G A A G A A G G A A G G G A$ G GAGGGGGAAAAAAAATTAAAAAAGGCCGGGAGGAACCAGAA C CAAAA $A \operatorname{GT} T A A G A A G G A G G A A G A A A A G G A G G C C G G A G G G G A$ GAGGGGAAGAAAGAGAAAAGAGAAAGGGGAGGGGGGAAAACAC G GAGCCAAAAAGGAAAGGGGGGAAGGTTGGCCGGAAGGAGGA
 G G GAGGCCAAGGCCAAGAAAGGAGAGGAACAGGAGAGGAAAA A A G G G A A G A A A A $\mathcal{A} G G G A A G G G G A G G G G G A A A A A G A G G B A A B A$ $A G A A G G G G G G G G G G A G C C G G G G G G G G A A A G A A G G A A G$
 A A A GCCAGGGGGGGACGGGACAAGGGAGCCAGGAGAAAAGGG A A A A C A G A T T G A G A GAGAGGGGGGGGAAAGACAAAAGA G GAAA A GCCGAAAAAGAAACCAAATGGAACCGAAGAGAABGGGGGGG AAAGAAGGAGAAAGACCAGAAAGAAAGGGGGGGGAAAAAAAA G G G G G GA GAC GAAAAGAGGGAGAAAGGGAAGGAGGGGGACAAA A G GCAAGGAGAGACGGAAAACCGAAAGGAGAAGGAAGAAAGG A G G G G GACGGAACCAAGAAAACAAGAAACACCGGAAGAAAAG $G G C A A A T T G G A G A G G A A G C C A G A A A A G A C C A A G G A G A A A G A G$ $A C G A G G C A A G G G A A G A A A A G G A G G G A C G A G A A A G G A C C B G A A$ AGGAAAAGAACCAACCAGAAAAAAAAAGGAGAAAGAAGGGAA AAGGAAAGGCGGAACCAAGGAAGGGGAAAAAAAGGAAAAAGG
 $A G T A G G G G A A G G A A G G G G G A A A A A G G G A G G C A A G G G G B A G G G$ GAGGAAAAGGGAGGGAGGGGGGAAAAGGAAAAAAAAGAGA G G $A$ G GAA A G GAGGCAAGAGAGGAGAAAGGAGCCAAGGGGGGGGGG A GAGGACAAAGGGGGAGGGGGGAAGGCCGGAAGGGGAAAGGG A GCAGGAGAAAAGGTTAAGGCAAGAAAAAAGAAGAAGAGAAA G G G G G A C A G G G G A A G G A A G G G G G G A A A A A G A G G G G G G G C C A $G$ G GAGGGGGAGAGAGGGGAAGAGAAAAAAAACCAAAGAAAGGG $G G T A A A G G A A G A G G A G C C G G G A G G A A A A A A G G G A G G G G G G G A$ GAGGACGGAAAAAAAAGAAAGAAGGGACAAGGGGAACAGAAA $C \subset A G G A G G G G G G A A G G G G G G G G A A G G G G G G G G A G A G A A G G G G$ G G GACCGGAAAAGGGGGGAAAAAAAAAAAACCGGGGGAAAAA A A G G G G GAGGGAGAGGAAAGAGAGGGGGAAGGCCAAGAAAAA G G GAGGCCGGCCCAAAGGGAGGGAGGAAAAGAAAAAGGAGGG A G G G G GAGGGGGAAGACAGGAGGGCCAGGGAAAAAAAACAAA GAAAGGACACGGAAAGTTAACCGGCAGGGGGGAAAAGGACAA G GCCGGAAAAGGGGACAAAGGAAGAGAGAAGGAAGAGAAAAG A A A A A GCCAA $C$ CAGGAGAGGGAGGGAGGACCAGAGAAA GAAAG $A G T A G A G A G G G G G G A A G G G G A C A A G A A A A A G A G G A C A A A C T T$ GCAGGACCACCCGGGGGGAAGGCAGGAGAAGAAGAGABCCCC G G G GAA A G GAGGGGGGGGAAAAGAAAAACCAAAAGGAAAAGG A A A C G GAA A G G G A G G G G A G G A A A A GAGGGAAGCA G GAA G GAA G G A A C CAAA A A G G GAAAACCCCCCAGAAAAAAAAGGCCGGAA A A C C G G G A G G A A G G G G G G A G G G G A G G A A G G G G G A G A C A G G G A
 GAGGAAGGAACCGGGGTTGGAAGGGGAAGAGAAAAAAAGGAG GAAAGGAGACGACCGGACAAAGGGGGGAAGAGAAAGATGGAC G G A G A A G G A A T T C C A G C C A A G G A A A A G G A A G G G G G G G G G G G G G GCCGGGGCCAAAGAAGACCAGGGGGGGCAAAGGAAAGAAGG CAGGGAAAAAAAACGAGAGGAGAGGAAAAACCGAAAAAGGCC GAAGAAGACCAAAAGGAGAAAACCACAAGGGGGGAAGGGGAA A GGGCCAGAAGGAGAAGAGGAAAGAGGAAACCGAGGGAGAAA GAGGGGCAAAAGAGAACAGGGGGGCCGAAGGGAAGAGGCCCG C CAG G G G G A C G G G A G G GAACGAAAAGGAGGACAAGAAA GA GA A A A A A A GAGAGGAAAAGAGGAACCGGAGAGGAGAGGAGAACA A G G GAGAAAACCCCAAGGAAAAAAGAGGGAAAGAACGGGGGG AAGGGGAAAAGGCCGGAAGGTAACGGACAAGGAAAGGGAAGG

A A G G G A A G A A G G G G G GCCGGAACCCATTGCGAGAACAAAGAA $G G C C A A A A A A G G A A G G A G A G A A G G A C G G G G G A A A G G C C A A A A$ GGCCGAGACAAGGGAACAAAGAAAAGAAAAGGAAATAGGGGA $A C G A T T G G A A A C G A A A G G G G G A G A G G G G A A G G C C A A A A G G G G$ G GAGGAAGAAAACCGGGGAAAAGGGAAAAGAAGGGAACAGAC A A GAAAGGAAAGGGAAGGGGGAAAAAAACCAAGGAGACAAAA AAAAGGAGAGGGAGCCGACAGACACCAGAACGCAAAAGAAGG AAGGGGAAAAGGAAAAAAAAAAAACCGGGGCAGGGGAACCCC GAGAGAAAGAAGGGAAGAACAGGGGAAAGGAAAAGACCCAAA AAAAAAGGCCGGGGGGGGAACCAAAAGGAAGGGGCCAAGGGG G G G GCCGGGGGGAAAAAAGGCCGGGGGGGGAAACCCAAGGAA C C A A A A G G A A C C G G G G A A CAGAGAAGAGAAAGGGAAAAAA GA G GCCAGGAAACAAAAAAAAAAAGAGGAGAAAGGGCCCCACBA A G G G A A A A G G G G G G G G G A A A A GAGCAG GATCCGGAGCCAGAA
 GACAGGAGGAGGGGCAGAAGGGAAAAAAAAAAGGGGGGAGAG A GAAAAGAGGAACCGAGGAAGGAGGGCCAAAACCGGAAAAGG A A A A C A A A A A GACAGAGAAGCAAAACGAGGGAAAAGAAAAAA $G G A A A G A A G G A A G A G A A G A A A A A C C C G C G G A A A G C C G G A A G A$ A A G G A G A A G A A A G A A A A G A GA $A \operatorname{GGGGGAAAGGGAGAGAAAAAA}$ G G G GAA A G G GAACCCAGGGAGAACGGAAGGGGGGGGAAAGGG A G G GAGCCTTGGGAAGAAAAGAAAAAAAGACCAGAGAAGAGAA AAAAAGGGAAAGAAGAAAGGAAAAAGCCGAAGAAAAGBAAAC
 ACGGAGAAGGGGAGGGAAAGAAAAGGACCCGGGGCCABAAAA AACCCACCGGAAAAGAGGAGAAGAAAGGGGGGCCBAAAAAGG A G GAA A A A GAC GAGGGAAAAGAGGGGGGGGCCAAAAACAAGAA A A G G A A A A A G A A G A G G A A A G A A A A TAAA A G G G G G GCC G G A G G G GAGGAATAGGGGAAGGAACCGGAGGAAGGGCAAAAAGGAAGG AACCGGAAAGCCAGAAAAAAGGAATAAAAGAAAAACAAAGAG A A A C A G A G A G G A A A G G G G A A A A A A A A G A A A A A G G A A A A G G A A AAAAAAAGACAAAACCGGAAAAGGCCAGAAAGCCGAAGAAAA GCAGACGGGAGGGAAGGGGGGGAAAAGGGGAGCCBAAGGGCC A A A A C C A A A A A A C CAA $A \operatorname{AGGGGAAGCAAGGAAGCCCCGAGAGG}$
 A A A A A A G G A A A A A G CAGGGGGAGAGACAAGGGAAGAAACCBG AACCGGGAACGGTTTTAGTTACAGAAGGAAACCAAAGGAAAA GGCCGAAAGGAAAAGGCCGAAAGAAGAAACCAAAGAAAAGAG A G G G A A G G A A C A G G G G G G A A G G A G G G G A C C G G G G G G A A A A $G$ G AAAAAGCCCCAAGGAAGGAAGGAACCAAAAGGAACCGGAGAA AAAGAAGGGGAAGGGAAACCCAAAGGAGGAGAGAAGAAGGGG G G GAAAAAGGGGAACAACACGGGGGGACGGACACGAAAGGAG G GAGGGGGGGAGAAGGAACCAAAGAAGGACGGAAGACAAAGB AAAGAAAGAGGGGAAGCCAGGGGGCAAAGGAAGAACAAAAGG A A G GCCGGAAAAAAGAGAAGCAGGGGGGCCAAGGAGACAAGG G G G A A A G A A G A A G A GACACAGGAGAAGGAGCAAA G GAAA A G G G
 A A GAAAAATTGGACAAAAAGGAGGAAAAGGGGAAGGGGCCGG AAAAGGAAAGAAAAAACCGGAAGGAAGAGGGGGGAGAGAGGG G G G G G A A G G G A A G G G G A A G G G A A A G G G A G G A G G G G G A A G A A A A A A A C CAACCAAGGAAGGAAGGGGAAGGAAGGGGAAGGGGGG T TAAA A CA $A \operatorname{A} G A A G G A A G G A G A G A A A A A A G G A G G A G C G G A G A G$ GAAAGGCCCCGGCCGGAGAAGAAGGGGGGGAACCGBABAAAG
 G GCCCCAGGGGAGAACGGCCGAAAAGCCGGGAGGAAGGGGGG A A A A G G A A A A $\mathcal{A} G G G G G G G A A A C G G G G A A A A A G A A G G A A A G G G$ G GAA $A$ AAAA $A A G G G A A A A A A A A A A A G G A G G G A A A A A A G A A G G G$ $G G G G A C G G G A A G G G A A G G G G C A G G G G G G C C G G G A G G C A A A A G$ $A G G A G A G A G A A C G G A A G G G G A G G G C C G A A A C C G G A A A A A A G A$

G G G GAGAAGGGAAAGGGGGGAAAAGGAAGGGGGAAAGAGGCC T TA $A \operatorname{GA} A A G G A A G A A G A A A A G G A A G G G G G G A G G G G A C A A A G B$ GGCAAGACGCGACCGACGCCAGAGGGAAAGGAGGAGACAGGA CAAAGAGAAAGGGGCCACAAAAGGGGAAGGAAGGAAGGAAGG G GAAAAGGAACCGGAAGGAAAACCCCGGAAGGAAGGGGGAAA G G G GCCAAAAAAGGAAAAGGAAGGAAGGAAAGAGAAGGAGAA GAGAGAAAGAGAGGAAGGAAGGGAGGACGGAAAABACAGAAG G G G A A C A A G G G G G G A CAG G G C C G GAGGGGGAAGAAAGGAGA A GAGAAAGAGGGGAAAAGGGGGGGGGGAAAGGGAAAAGAAACA A GGGAAAAAAAGGGGAGGCAAAGGAACCCCAAAAGGG
GACAGAGCACAAGAAAAAAAAAAGGCAGGGGGAGGGACAC G AAAGCAGGCCGGAGAGGGAAAAGGGAAAAACCGGAGCCAGGG G G A A G GCCAGAGAGGGGGGGGGAAAACCGAAAAGTAGECABA A G GA GACCAGGGAAGGAAAAAAAAGGAAAAGGAACAGGGCTT GCAAAAAAAAGGGGGGACAAAAGGAAGAGGGGAAGACGCCCC G GCAGGGGAACCGAGGGAGGGAGGACGAAGAAGGACGGAAAA GATAGAAAGAAAGGGGACTAAGGAGGAAGAGGGGGEAAAGBG
 AAAAGAGGAGGGTAAAGGCACCGAAAAAGACAAGGGAAAAAG A A A A A A A A A A A ACCAACCAAAAAGAAAAAAGGCGAGBAACAA GAGGGGCCGGAGGGAGAAGGAAAGGAGAGAAGGAGGGAACAA AA $A$ A $\operatorname{A} G A G G G A A G G C C C A G G A A G A A A G A A G A G A G A A A A A A G G$ G G A A C C C C GAGCAAGAAAAAGGCCAAGGAGAGCCAAAAGAAG G G A A A A G G A A C C G G G G A G A A A A G G G G A A G G G G A A C C A G GAA A A G A A A A A A T T A CA $\mathcal{A} A G G G A A A G G A A G G A A G G A G G A G C C A A A G$ GACAAGGGGGAAGGAAGCACAAGGCCAAGGGGAAGCAAGAAG GAACAAAGAAAAGAGGAAGGAGGGAAAAGAAACCGAGAAGGG GAAGGAGAAAGGGGAGGGACGAGGAGAGCACAAGAAGGAACC GAGGGGAGAGAAGAGAGGAGAAAAGGGCAAAGAAAAGGACCC CAGAAAAAGGGAGGACCAAGACGGGGGAAAGGAAGGGCGGCC $G G C C C C C C A A A A G G G G A A A A G G G G G G A A G G A A G G A A G G A A G G$ G G G G G GAAAAAAGGAAGGCCCCGGAGGGAGGGAAAAAAGACC A A A A GAGAGGAAGGAAAAGGAGAAGAGGGGAAAA GAAACA GA A A A A A G G G CA $A \operatorname{GAA} A G A A G G A G G G C A G G A A G G G A G G G G G G G G$ G GACGGGGAGAACACAGAAGAAGAAGGAAGGGGGGGAGACAA G GCCGGCAGGAAAAAAGGGGAAGGAGGAGACCCCGGGGAABA AAAGAGGAAGGAGAGAGGGGAGAGGACCACACGAAGACAGAA G GAA $\operatorname{G}$ GAAAACCCAAGAAGGCAAGAAGAGACAGAAGGGGGAG G GAGCAACGGCAGGGGGAGAACAGAAAAAAGGAAGGAACAAA G GCAGCGGAAGGGGGAGAGAGGAGACCCAAAAGGGGGATACC GGCCGGCCGGAAAGAGAAGAGGCCAAGGGAGGCCGACGAACC C CA $A \operatorname{GGA} C A A G G G G A G A G A G C C G G A G A G A A A A G G A G A A A A A G$ AAGGAGAGGGAAAAAAGGAGGGAGAGAGGAGGGGCCAGATAA A A G G A A A A A A G GAGCCGGAGCCAGGGGGCAGGCAGGACAAAG G G G A A G A C G G G A G G A A G G G G G A G A C C C C A G A A A A G G C A A A G G
 A G G G A A G G A GA GACCAAGAAACCCAAGGAAGGGGAGGGAGCA
 C C A A A A G G G G G G G G G GACA $A$ A A A A A G GGGCCAGGGAA GAA A A A GA $A$ A A A A A A $\mathcal{A} G G G G G G A G G G G G A G G G G A G G G G G A A G A G A C A A A$ A G G GAGCCCCCCGGGGCCGGGGGGAAGGGGGAAGGAAAGGGG GAACAACCACGAGGAAGGGGCAGGAAAGGGAGAGGAGGAAGG G GAA A GCCAAGAGAGATAGGAGAAAACAGGAGAGAGAAGAAG A G G G GAGGGAGGAAAGAAAAAAAGGGGAGGGGGGAAAAAAAC A G G A A G C A G A A G G G G G G G A G G C G G A G G G G G A G G G G G A G A G A A GAGGGGAAGAAAGGGGAAAGAGGAGGAAAAGGGGCAGAAGGA GAAGGAGGGAGCGGGGGAAGGAAGAGAAAGAAGGAAAAAGAC C C C G G GA G A GAGCCAACCAGGGAGGAAAATGGAAGGGGGGGA GAGGAAAACCGGGGACGGGAAGGAGAGCAAAAAGAGGACACAA

GAAAGGCCAGAGAGACGGGACAAGGACAAAAAAGAGCAAAGA
 GAGGGGGGGGACAACCGGGGCCGGGGGAATGAAAACAAGGAA GAGGAAGGCCGAAGGACACCGGGGGGGAGGGAAAAGGGAAGA $C \subset G A G G C C A A G G G G A G G A G A G A C A A G G A A A A A G A A G G C A C C C$ AACCCCGGCAAGGAAAGGGGGGAACCCCCCAAGGAAGGAAGG


 $C C G A A A A C G A G G A A A A A A A C G G G G G G G A C C G G A A A A A A G G A A$ G G GA $\operatorname{G}$ GAA $A \operatorname{GAA} \mathrm{~A}$ GCCAAAGAGAGAGGAAAGAAGCCAAGGGA G G A A A A G G A G G G G G G G G A A GAC TA $\mathcal{A} G A G C C A A G G A G A G A A G G$ A A A A CAGGCACAGAAAAACCAGACAAAGGAGAGA GAGGGGGG
 G G G GAGGGGGGAACCAAAGGCAGGAAGGAAAGACAAGGAAAA AAAAAAAAAAAAAGAAGAAGCAGGAAAGAAGAGAGGGGAGAA G G G GACGGAGAGGAGAAAGAGAAGGGGAGAAAAAAAGAAAAA G G A G A A G A G G C A A G A G G G G G G G G G G G G G G G G G A A G A G A G G G G AAAGAGAAAGGGGGGGGGGGACAAACAAGGAAGGGAAACCAA A GAGAAGAGAAAGGAAGGGAAGGGGAAAGGAAGAGAGAAGAAA GAAGGGGGAGAGCAGAGGAGCAACGAAACAAAGAAAAGAGAA A A A A A A A A A G G GC C G G G G G G G G A A G GAAAA A G G G G G G GAAC C A A A A CCCCAAAAGGAAAAGGAAGGGGGGAAGGGGGGAAAACC G G G G G G A A G G A A A A A A G G A A A A A A A A G G G G G G C C G G G G C C G G A A A A A A G G A A G G G GAA A G G GAAAA A A C C A A A A A A A GAA GA GA G
 A GAGGAGGACAGGGAAAAGGAAGAGAAGAAGGACGAGAAAGG A GAA A G G A G G G GCCGGAAGGAGAAAAAAAAAGAGGGAACC GA G G G G A A A A G GCCGGCCGGCCAAAAGGAAAAGAAAAAGGAGAA ACGAAGAGCAGAAACCAGGGACGGGAAAAAAACCAGAAGGGG A A G G G G G A C C G G G G G G G G G G A A A C A G A G G G G A C C C C C G A A G G AAAAGGAGAAGGGAGAGAGGAAGAGACAGGAAGGGGAGAAAG AAAGAGAAAGAGAGAAAGGGAAGGAAGGCCAAGGGGGGAACAC A A G G A A G G A A G GAAAA A GAAAAAAGGGGAAAAGAAACAAAAA GAAAAAGGAGATGGGGAAGGAAAAAAGGAGAAGGAAGACCCC CAAA $A \operatorname{AGGGGGAACC} \mathcal{G} A A G G G G G G A A A A A G A A A A A A A A A G G A G$ A G G GAA A G G G G GAA A G GAA A A A C C G G G G G G G G A A G G A A G G G G
 G GAA $A \operatorname{GACA} A A A A A G G C C G G A A A A A G G G G A C A A A C C G G A G A A$ A A A A A A G A A A G G G A G G A A G G A A A G G G A G G G A G GA G G G G G G G G A A A A A A A A G G A A A A C C GAGGGGGGAAAAAACCGACCAA GGGG
 A AACCGAGAGAGACAGCAGAGAGGGACAACAGGAACACAGAA
 G GAGGGGGAAGGGGGAAAGGCCGGAAGGGAAAGAAAAGGGGG A A G G A A G G G G A G G A A G G A G A G G G G A A G G A A A G A A A A A A G G G G GAACACCCAACCGGGGAAAAGGAGCCAATTAGAGGAGGAGAA CAGAAA $A \operatorname{A} G \mathrm{G}$ GAGAACCAGGAGGAGAAGGGGGGAGGGGGGGCC AACAAGACGAAGAAGAGGGAGAAAGGAACCAAGGAAAAGAAA GAAGGAGAAAAAGGGAGACAAACCCCCCCCAACCAAAAAGGG G G A A A A A G A A G G G G GAGGAGACGGAAGAGGTAACGGGAGGCC A A G G G G GACCCCGGGGGGAAAAGGGGAGTTAGGACAAGAAAA G G G G C C C C G G G G A A G G A A A A G A C A G G C C A A A G G G A A G G G G G G $G G A G C C G C G G A C G G A C A G A A A A A A A G G A A G G A G A G G C C A G G G$ AA G GAAAGAAGAGGAAAAGAAGAGGGAAGGAAGGAAGAAAAA A A A A G A A C G G G G G G G G G G G G T A A G A CAAAA A GAA $A$ A G G G G G A A A A G G CA $A G G G G G A A A A G G A G G G A A G A G A A G G A C C A A G G G G G G$ A A A A G G G A G GCAG G GACAAAGAGGGAAGGCGCGGAGAAAAAG G GCCGAAGAAGAAAAAGGGGAAGGAACAACAGAGAGGGAGGG

AAAA A GAA $A \operatorname{A} G \mathrm{G}$ GAAAAAGGGAAAAGGAGGGGGGGACGGGAGG
 A GAGGGGGGAAAAAGGAAAAGAAAAAAAAAGGGGACAGGGGG AGAGAAGCCCAAGGGGAGGAAAGGAAGGAAGGAAAGAGAAAA AAGGCCGGGGGGAACCGGGGCCAAAAAGCCCCAACCAAAAAAA AAAAGGAAAAAAAAAAAGCCAGCAGAAAAAGGGAAAAGAAAA AAACCCGGACAAAAAAAAAAGAAAAAAAGGGGGGGGTTGGGG AAGGGACAGAAGGGAGGGAACAAGGAGAACGAAGAGGAACBG G G A A A A GAGGGGCCAAGGGGAAAAGGAAAACCAAAGGAAACC A A A A A A A A G G A A A A G G G GAAAGAGAAGGAGGGGGAAC
AAAAAAGGGAAACCAAGAAACAAAGAAAGGAAAGGGGAAAG G GACGGACAACCGGAGACACCCGGGAGGAAAGGGAACAAAAG GAAA $A \operatorname{A} A A \operatorname{A} A G A G A G G G G C C G G T T G G G G A A G G G G G G A G A C B G$ G G G GATGGAAGAAAAAAGCAAAGAGCGGAAGGGGAGAAGAAA G G G G G G G G T T A A A G GAAAA A G GAAC GAGGGGGA GAA GAAA G G A G G GCCGGAGGGAAGAGGATAGAGAGCCGGGCAACAGGGGGG A A GACCGACAAAAAAAAAGGGGGGAAGGGGGGGAAGGGAABA A A G G G G G A C A G G G G G G G G G G G G G G A A A A A A GAGGC CAA G G G A $A G A A G G G A A G G G A G A G G G A A A G G G C C G G A G G A A A A A G A A G A A$ GAAAGGCCAAGAAAGGAGAAAAGGCAAAAAAACCAAGAAAAA G GAAGCGGGGCCGGGGAGAAGAAGAAAAGGGAAAGGGGAGGG
 T TCCAGAAAAGGGGACAAAACCGGAGGACAGAAGAGGACCGG AAGGAAGGAAAGGAAGAAAAGGACAGAAGGAAAAAAGAAAAA GACGCAGGAAAAAAGAAGAAGGGAGGAGAAAAAAAAAGAACC AAAGACGAGGGGGGAGACGGAAGGGAAAAAATGGGGAGAGAA
 $C \subset G G A G A G A A A C G G G G G G G G A G G G G G A G C A G A G G A G A G C A T T$ C G A A A C G A G GCCAAAAAAAGGGGGGGGGCCACGGGGAGGGGA AC G A A G G A G G G GAA $A \operatorname{G} G C C G G A A G G G G G A G G G G C C A A G G C C G G$
 GAGGAAAAAGAACAAAACAAGCTACCGAAAGAAAAGACAAAG AACGAGGAAGGACCAAACGGGGAAGGCCCCCAAAGGAAAACC G G G GAA $A \operatorname{GGGGGC} C A G A C A A A A G G C C G G A A G G C C C A A A G A G G$ AAGGAGGGAGGAACAACCAAGGTTAAGGGGAAGAAAGAACAA A GAA A A G G G GACCCGGGGCCAAAAAGGAGGGGGGAACACAAC AGCAGGAGGGAGGGAAAGAAAACCAGGGGGAGGGAGAAAGAA GAGAAAAAAAGGAGGGGAGGAAAAAAGGAAAAAAAAAAGGTA AAAGAAACGGGAGGAAGGAACGCAAAAGGAGAAAAAAAAAAA A A GAAACAATAAAGGGGAGGAAGAAAGGGGGGAAAAAA GAAA AAAAAGGGAAAAAGGGAAAACCTTCCGGGCGAACACGAGGAG
 GAGAGAGAGACCAAAACAAGGGAAAAAGGACACGAAGGAAGG AAAAGGCCAAGGAACCAAGAACACAAAGGAAAGGGGAACA GA G GAGAAGGAAGAAAAAGGCACCAAAAAACCAAGGGGGGGGGA $A \subset A G G G A G C A G G G G A A A A G G G A A A G G A A A A C C G G C C A A G G G G$ G GAGAGCCGGAGAGGGCCAGGGAAGAGAAGGAAAA GAAACGG AATACCGGAAGGGGGGGGGAGGACGGGGGAGAAGAACCAGGA A G G GACAAGGGGAGGGAAGAGGAAGGGGCCCCAAAGGGAAAA G G G G G G A A C C A A A A G A TAAAGAGGGACCGGCCCAAAGGAAAA GAGAAAGAGGCAAGAAAACCGGGGAGAGAGAGAGAAAAAAGA G G G GA $A \subset C A G G G G G A A G G G G G G A A G G G G A A G A C C A A G G G G G A$ GAGAGAACGGCAAGAGAGCCGGAGAAGAAGGAAGAGAGGGGA GAGAGGAGACGGGGAGAAAAAGAAAACCAAGGGGGAAAAGAA A G G G G G G G G A G G G A G A A A A GAA A G GAGGACACAA GAAAAG GA GGCCCCGGGGCCGGAAGAAAAAAAGGAAAAAACCAAGBCAGAA $G G A A A A A G G A G G G G G G C C G G A C A A C A G G A A A A A A A A G G A A G A$ A A G A C C A GAGATGGAGGAGGCCGGGGGAGGCCAAAAAACAAC G G GAAAGGCCAAGGGGAAAACCCCGGACGGAGAAGGAAGAAA

A A A A A A A A A A A A G GACAGAGAGACGAGGAAGGCCAAAGAAGC A GAG $A \operatorname{GGG} \operatorname{GA} A G G G A G A G A G A A G A G C C G A G A G G G A C C A G A G A A$ CCGGAGAGGGAAGGCCAAGGAAGGAACCAAGAAAAAGAAGGG ACGGAAGGAAGGGGACGGCCAGAGAGGAAAAAAGAGAGGGAG A G GAA A A A A A A A A A A A GGAACCGGGGCAGGAACCAAAAAAAA AAGGCCAGAAGAAAAGAAGGAAAAAACCGGAAGGAACCAGAA G G A G G A G A G G G G C C G G G G G A G A G G G A A A A G G G A C G G G A A G A $G$ $A G A A C A G G G G G A G G G A A G A C A A G A G G A A A A G G A G G A G A C C G A$ A G G G C A G A G G G A A A A A G G A A A G GACAG GAAGGGGAAAA G GA G AAAGGGGAAAGGAGGAAAGAAGAGAAAAGGAAGGGGAAAAGG GAGACAGGAAGGAAGGCCCCGAAGGAGGCCAAAAAAGAGGCC G G GAGAAAAAAAGGCCGAAGACAGAAAAGGAAACGAGGAAAC A G G G A G A A G G A A G G A A G GAA A GCCCCGGAAGGAGGGGA G GAA A GAA $A \operatorname{GAA} A G A C G A G A G A C A A A A A A G G G A G G G A A G A A C A A C C$ AAAAAGAGGATAAAGGGAAGAAGACAAGAAAGGAACAAAAGG AAAGGAAAAAGAAAAAGGGGAGACGGCCGGAAAAGGAA G GAAA A A A A G GAA $A \operatorname{GGG} \operatorname{GAA} A G A G A A G G A A A A G A G G A G C A A A A G G A G G$ G GAA $A \operatorname{GAA} C \subset A A G C A G G A G A G A A C G G A A A A A A G G G G G G C C B A$ CA $\operatorname{G} G A A A A A A G G A A A G A G G G A G G G C C G G A A A G G G G G A C A A C C$ A G G A C C A A A A G G G G A G G G G G G G G A A A A C G C CACA A A G G A C G G A G G GAA A G GACAAAGGGACGCAGAGGGGAACCGAAGGGGGAA G GAA A GACAACCCCAGGGGGGGGGGGGAAGGGGGAGGAGAAC G GAGGGGGGAAAGGGGGAAAAACAGAGAAAGAGGAAGAGAAA GAGAAACAAAACAGCACAGGGGCAAGGGGGAAGGAGCCAAAC A G A A G G G A A A A A C A A A A A A A G A A A A A G GAACCAAAAAA G G C G A A G G A A A G A G A C G A A G G G A G A A G G G G G G G G G G G G C A G G A A A A AACCCCGGGCAGGGGGCAAAGGCCAGTTGAAAAAGGCAAAGG GAGGAGCCAAGGAGCAAGAGAAGGGAGGGGAGGGAAAAGGCC AAAACCGGACAAGGAAGAAGAAGGAAAAGGAAAAAGAAAAAG A GAGAGCAGGAACCCCGGAGCCAAGGGGAGGGCCGGAAGGAA G G A A A A G G A A G G A A A G A CAAAGAGAAGGCAAAAGGAAAAAGA CAGAAAAAAAAACCACAAGGGGAACCCCAAAAGGAAAAAAAA
 A A G G G GCCAACC $C$ C $\mathcal{C} A A C \subset A A G G G G G G G G G G A A G G G G G G G G G G$ A A G G G GCCGGGGAAAAAAAAAA A $\mathcal{A} A G G G G A A C C G G A A G G G G C C$ A A A A G G G G A A G G A A G G A A G GAAAACCAACCAAAAGCCCGGGG AAAACAAAACCAAAAAAAGGGGCCAGAAGGCCCCCACC G GAA AAAAGGAAACAGGAAGGGGAAAAAGGAAGGAACCAGGGAGGG A A GAAA A A G G G G G G A A A A GACCCCAGGAGAAGACGGGAAACC GAAAATGAAACCGGGGAAAAAAGAGGGAGGCCGGGGAATACA AAAAGGGGCAAGAGGGAAAGTACCAAGGGGAAGAGAGGAGAG G G G G G G GAAA A A G GCCAAGGCCCCGGAAGGAAGAGAAGAGCA T TAGAGCCGGGGGAGGGGGGAGGGAGAGGAAACCGGGAGGGG G GACAGAGCAGGGAGGAAGAGGAAGGAGAGGAGCGAAGAGAA G G G GCCGGGAAAAACCAGAAGGGGGAAAGGATGGGGGGABAA A ACAGGGAAAAAGGGGAACCGAGGAGGGACACCCGGAAGAAA GAAATAGCAAAACCAAAAGGGGGGAAGGCCGGGGGBAACCBG GACCACCCAGGAAAAAAAGGAAGAAAGGGAGGGGAGAGAAGA C GCAGGCCAACCAGAAGGGGGGAAGAGAGGCAAAAACCAGAC G GAA A GAA $A \operatorname{AAGGAGACGGAAAAAAAAGGAAAGAGGGGAAGCC}$ GAAA A GAA $A \operatorname{AGGGGGAGGGAAAAAAGGAAGGGACCGGGAAGAA}$ C CAA A G G G A A CAA $A$ A A GAGACGGAAGAAGCCAGACA GGGAGA G A A A G G G G G A A A C G G G G G G G G A G A GAGGAGAAA A A T T A A A C C A G A A G GAA A G GAGGCCGGAAGGAGGGGGGAGAGGAAAAGGACAA
 G G G GCAGGGGAAAGACAGCAGGGAAGGAACGAGGAAAAAAAA $A G C C A G G A G G C C A G G G G G A A A A G A G G A A A A A A G G G G G G A G A A$ $A C A G A A G A A G A A C A G G G G A A G G G G A A A C G A A G A A G A G G G A A A$ A GAA A A G G G G G GAGAGGAGAAGGGAGAACAGGAAAGAAGGGG

A A A A A A A A A A G G G G G G A A A GAA A A GAGGGGAGGGGGAGCCCA G GAA A GAAACCCAAGGACGGGGGAGGGAGGAAAAAAGGTXAG A A G G A A G G G GCCGGAGGGC CAGGAAAGGCAAAA AAGGGA G G G A A A A A ACCCCGGGGGGAGAAAACCCAAAGGAAGGAAAAGGGG A A A A A A A A A A G GCC G GAAGGGGCCCCGGAAGGCCGGCCGAAA G G A A G G A A A A G G A A A A A A A G G G G G G G A C G A A G A A G G A A G G A G G G G G A G G A A C A A G GCC G G G G G G A C A G G A A C A G A G GAA G G G G G AC G G G G G G G G G GAC $\mathcal{A} G G G G G G G A A A A A A A A G G G G A G C A C A G A$ A G G G G A T T G G A A A A A GAAGGAGCCAAAAAAAAAAGGGAAAGA G GAAAAAGGGAGGGAGAAGAAAGGAAAAAAGGGGACG
$G C \subset A A A G G G A A A G C C A A A A A A G G A A G G G A A A C C C C A A C C G A$ GCAACCAAGGAGGAAAAAACGGGGAGAAAAAAAAGGGGAGAA A G GAA A A A A ACCGGGGAACCAAAGAACCGGAAAAAACAGAAG $A C G G A G A A G G A C G A G C C A A G A A G G A A G G G G G A A A A G A A A A G A$ A G GA A A GACCGAAGAGGAGGAAAAGGGGACAAGGGAAAGAGA GAGAAAAAGGGACCGGAAAAGGACGGAAACGAAGGGAAGAAA $A G A G G A G G A A G G G G G G G A G G G G G A A A A A G G A C A G A A A A A A A G$ G G A A A A A A A A G G G GAAAAGAGGAAAAGAAAGGAAGACAAAAA AAGGGAAAGGAACGAGAAAAGGGAAAAAAAGGGGAAGACGAA G G G G G G A G A A G G G G G A A G G G C C G A G A G G G A GAC CAACA G G C A AAAGAAAGAGAGGGAGAACAAAAGAGAAAAAAGGGACAAAAG
 A A A A A A A A A A G G G G G G A A A A G G A A A A G GA G G G G G A A A G G G G A G GAGGGGGAAAGGACCCCAAGGAAAAAAGGAAGGGGGGACAA A G G G G A G A A G A GAGCACCGGGGGGGGAGAAGGCCGGAAAAGA A A A A A A A G G GAA $A \subset G G G G A A G G G G A A C A G G G G A A G G G G G A A A$ G GAAGACCAACCCCAAGGGGGGAAAAGGGGAAAAGGGGAAGA A A G G A A G G G G G GAA $A \operatorname{G} G A A G G A A G G A A A A C C A A C C G G G G A A A G$ C C G G A A A A G GAAAA $A \operatorname{AGGGAAAAGAAGGGCAGAGCAAAGGGGA}$ GAAGGGGAGGGGGGGACCAAGGGGGGAGGGGAGGAGAAAGGG A G A A A A A G A C A A G A G GAGGGCCAGGGAGAGAAGGAAAAAACC AACCGGAGGGAGAGAGGAGGCAGGAGGGCCAGAGAAGGAAGA
 G G G G G G G G G G G G G G A A A A C C C C A A G G A A G G G G C C G G A A G G G G G G G GCCCCAAAAAAGGAACAGGACAAGGGGGGGAAAAGGGGG ACAAGGAGGGAACCGGAAAACCGAGGCCAAAACAGGGGTTGG1 G G GAA $\operatorname{A} A C G G G G C C C C G G A A A A A A C C A A G G A A A A A A A G G G G G$ G GACAAGAAAGGGGGGGGAAGGAAAACCGGAAAAAGAAAGGG A A A A G GCCAAAAGGGAAGGGGGGGAACCGGGACCGAAGAGGG G GAAAGACGAGGGGAGAGAAGGAAAACCGGAGAGGGABAAAG $G G A A C C A A A G G G A A G C A G G G G G A G A A A A A A A A C C G G A A A A G A$ GAGACAACAGCCCCGGAGAAGGGGGGCCGGCCAAAAGGAGCC GAACGGGGAGGAAACCGGGGCCGAGAGACCGGGAGACC G GCA $A C G G G G A A G A G G G G G G A G A A C A A G A A A A G A G A G G G G G G A G A A$ G G A A A G A G A A A G G G A A T T G GA G G G A A GAAAA A G G G G C C A A G G G G G GAA A A A GCCAAAGACGAGGAACCAACCAGGGAGAAGABA CA $\operatorname{G} G A A G A C A A G G G G G A G A A G A G G G G G A G G A A A A G A A G A A A G$ A ACCGGGGAGACGGGGAAAGGGTTAGCCGGGACCGAGGGGAA G G G GAAAAGGGGGGGAAGGGGAAGGACAAGAAGAAGGGCCBA G GAGGGGGAAAGAACCAAAAAGGGCAAGGGCCAGCCGGGGGC GAAGCCGGCCCAAAACAAGGCAAAGGGGAAGGGGAAAAGGGG CCTTGGAAGGAAAAAAGGAAAAGGCCAAGGAAAACCAAAAGAG AACCGGGGAAAAAAGAGGGAAAGAGAAGAAAAAGAGCAGAAG AACAAGGGAAAAGGACAGAGAACCGGAGAAGGGAAAGGAAAA G G GAACGCGCGGAAAACCAGAGAGAAGGAGAGGGGGAAAAAA C C A G A G G G A A A A G GCC G GAACCGGGGGGAAAGCGGGAA GAA G A GAGGGGAGGGAAGAGACGGAAAGGGGAAAGAAAGAGAAAAG A G G A G G G G A A G A A C G A G G A A G G G G G A G G G G A G G G A C A A A G C C CAGGAAAGGGAAAAAAGGAAAAAGGGGAGGGAAACCGBCABAA

A A A GCAGAGAAAGGCCGGGAGGAGGGGAAGAAAAAGTAAAAG G G A G A A G G G G A A C C G A G GA $\mathcal{A} G G G G A A A A G G A G G G G G G G G G G G$ GGCAAGCCAAAAGAGGAAGGAGGAAAAAAAGGAGGAGAAAAA AA $\operatorname{A} G \mathrm{G}$ GAAAAGGCCAAAAAAGGGAAGAGGACAGAAAGGGGCG G GAAAAAAGGAAAAGGGGAAGGCCGGAGAAGGAAACGGGAAA C C G GAGGACCGAGAAGAGGGAAGGAAGGGGGAGAAAAAAAAA A G A G A A G GCC G G A A A A GAGGGAGAAGGAAAGGGGGGCAAAAA G G G GAAAAAAAAGGAAAGGGGAAAAAAAGGGGGGGAAAAACA G G G G G G G G A A A CACAGCCGGCAGGGGAAGGCCGGAAAGAGGG G GCGAGCCGGAGGAGGGGAAGGAAAAGGGGGGAAAGAAAAAA GAGGGGGGGGAGAGAAGGAGAGAGAGGAGGGAAGGGAAAAGG G G G A C A G A A A A A G G A A G GA G A A G G A A A G G G C C G A G G G G A G G G G G GA $\operatorname{G} G C \subset A G G G C A A A G G A A G G C C A G G A G G G A G G G A G G A G A G$ GAAAAAAAAGGGGGGAAGGGGAAATACCCAGAAAAAGAAGAG AAGAGGGGGGAGGAGACCCCACAAAAAAGAAAGGCCAACC GA AAAA A $A$ A A $A G A G G G C C G A A G G G A C G G G G G G G G A G A A G A A G A G$ AAGGCCGCAAGAATGGAAAGCAAAGAAAAGGGAAAAAAAAAA AAAGAGGGAAGGGGACGCGGAAAAGGAAAAAAGGAAGAAAGG AAAAGGGGCCGGAAGGCCGGCCGGAAAAGGAAAAAAAAGGCC
 AA G G G GACAGGAGGGGAGAGAGGGAAGGGCAAGGGGCCGGGG G G G G G G A G G GCAG G C C G G A A A G G GCCAGGGGGGGACCCACCC GAGGGCCCCCAAAAAACGCAAAAAAAAAAGGGGGCAAGGGAG C C A A A C G G A C A A GAGGGAGGCCGGAAAGGGGGGCAA GA G GAC A A G G GAGGGAACGGCCAAAAAAGAAAGAGGAAAGAAGAAGAG AAAAAACAACGGGGGCAGGAAAAAAAGGGGAGGGGGGGGGAG G G G G G A G G G GAACCAAGAGGAAGAGGAGGGTAAAAGAA G GAAA A A G G A A G GCCAAAGAGGAAGAAGGGGAGGAACGACACCAAAA C C G G G GAAAAGGGAAAGAGGGGAAGGAAAAAAGACAGAAAGG G G G A T TACAGAAAAGAAAAACCACAAAGGGAAGGAGCACACC G GAAGACCGACCCAAGGGAAAAAGATAAGAGGAAGGCAAAAG CAAAAAACGGGGGGCCGGAAAAAAAAAGAGGGGGGGGGEGAA GACCAGCCAGGAGGGGCCAAGGAAGGCCACAGAAAAGGAAGG G G GACCAGAAGGAGAAAGGCCCGAGGAAGAAAGGAAGAAAAA GA $\operatorname{G} G A A A \operatorname{A} A G A G G A G G A A A A A G G G G G G A G A A C G A A A G G G G G A$
 G GAA $A \operatorname{A} A A G A A A G G G G G A C A G G A A G G G A G A G G G G G G A G G A A C$ G G G G G A G G A A GAGGGAAGAGGGGGAAAAATGGGGGAACAAAA A GAAAAAAAAGGAACCAAAAGGGGAAGGAGCCAACCGGGGAC A GAGGGATCAAAAAGGAGACGACCAAGGCAAAAAGGCCAA GA ATAAAGGGGAATAACCGGCCAAAAAGGGAGAGAGAGAAGAGA A A A GAGGGAGAAGAGAAAAGAGAACACAAGAAGGGGAGAAAA GGCCGGGGCCGGGGAAAAGGGGAACCGGGAAGAGAAGGAACC G G A A A A G G A A A A G G G G G G A A A GAC G G A GAGAGAA GAA GAAAA A A A A G G A A A GACA $\mathcal{A} G A G G G G C C G G A A A C G G G G A A A A A G G G A G$ A A A A G G G G A A G G A A A A $\mathcal{A} A A G G G G G G G A G A A G G A A C C A G G G A G$ A A GA $\operatorname{A}$ GAAAAA A A A A $A A A G G G A A G G C C G G A A G G A A G G G A G G A G$ G GAAGGGGGGGACCAGGGGGGGGGGGAGACAGCCAGAAAAGA GAGGACCACACCCGGGGGAAGGGGCCAAGACAAAGGAGGGGG A A G G GAGGAGGGGGAACCCCAAAAGGGGGGAAGGAAAAAACC GAAAGAACGGCAAAGGGGCCGGAGGAGGGAGAGGGAAAAAAA A G G G GAGCAGAAGGAGGAAGGAGGGAGGACAAAAGGCCAGGAG A A G G GAGACCGGAAAAAGGAAAAGAGAAGGACGGGAAAAA G G $A$ G G G GCCGAGGAAAAAGAAACCCAAGGAAGGAAAGGAAAAGGG AACCAGAACCGAAAGGAAAACCAAGGGAGAAGAGAAGAAAAG GAAGAAGAGGGAAACGGGGAGGGAGGGAGAAGGAAACCAAAA G GACAAGAGGGGGAAGAAGAGGGGAGGAGAGGCCAAGACACA AC GGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGCC $G G G A A C A G A G A G A G A A A G G A A G G A A G G G A A C C G G A C G A A G G G$

A G G A G A G A G A G G G G G G G G G G A C G G A G C C A G GAGGG GAAA A A G A A A GAGGGAGAAAAAAAAGGGGGAGGGGAACCAGGGAAGGAC $G G A A A G A A A A A A A A G G A A G A G A A A G A G A C A G A A A A G A C C G G G$ CAGACAAAGGGGGGGGAGAAGGGGAAGGCAAGACAGAGAAAG A GAAGGAGAAAAAAGAAAGACCAGCCAGCCAAAAGGCCGGCC
 A A A A A A G G GAA $A \subset C A A G G A A A G G G A G G G G A G G G G A G G G A A G G$ A G G A GAG G GAAA A A GACAGGGGGAAACCAGGGGAAAGGGGGG A A G G A A G G G G G G G G G G A A A A G G A A A A GAGGAAA GAAA GAAC C AAAGGGGGAGGGAGGGACAAAAAAACAGCCGGGGAGA
A G G G G GAAAAAGGGAAAAAAAGGAAAGACAACCGGGAGGAA CACCGAAGGGGAGGCCAAAAGGAAAAAAAAAGAAAAAGAAGA A GAA A GCCGGAAAGAAGGGGGGAAGGGGAAAAAAA GAAGGGA AAAGGGAGAAAGGGCAGGAAAAAGAGAAAAGGGGGAAAGGAC G GAAGGGGCCCCCCGGGGAAGGAAAAAGCCGGGAGGGAGAAG A A A A A A G G A G G GAAAAGGGGGGAGAAACGAAGGGGAGAAAGA
 C C G A A A G G G GACGGAAGGAGAGACGGAGGAGAA GTTGGAGAG
 G GAACCAACCAAAAGGGGAGAGCCGGAACCCCGGGAGGAAAG CAAGGGAAGGGGGAGGATAAGGGGGGAAGGAAAAGGGGGGT$T$ AAAGAACCGGGGAAGGAGAGAGGAGGGGAAGAAGGAGGAGAA $A C G G A A G G A A G G G G G G A G G G A A A A G G G G C C G G G G G G A G A G A G$
 ACGGAACAAAGGACGGACAACCGGGGAAAAGGAGAAAAGAGG
 A GAAAACAGGGAAGGGAGGGGGAAAAAGGGAAGGGGCAAAGA A A G GAA $A \operatorname{GA} A G G C C A A A A G G G G G G A A G G A A G G G G A A G G G G G G$ AAAACCAAGGGGGGAAAAGGGGAAAACCGGGGAAGGAAAAAA G G G G G G G G A C A A A G GCGAAGAAAAGGAACCAAGGGGAGAAA G $G G C C A A A G G G A G A G A G G G A A G G G G A G A A A G G G G G G G A G A A A A$ AAAAAAAAGGGGGGGGGGAAAGAGGGGAACGGAGAAAACAAA A A G G A A G G A G G G G G G A G G G GA $\operatorname{A} G A A A A A A G G G A A A A A A A G A G$ G G C A A G A G A G A G G G G A A A A A A G GAGAGGCCACGBACAAAGGG $A G C A G G C A A G A A G C G G A A A A A G A A G G G G A C A G A A G A G G G G A G$ G G GGCCGGCCAGAGAAGGGAAAAGAGAAAAGAGGCCGAATCC G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A A A A A A G G A A G A A A T T A A A A G G G G G G G G G A C A$ $T \mathrm{~T} C \subset G G G G G G A A G G G G G G G A G A G A A C A A G A G A A A A G A G G A G A$ GAAAAAGAGGACAGGGAAACAGGAGGGGGGCCGAGGGGAGAG G GAAAGGAAGAAAAAGAGAAGGAAAGAGAGAAAAAACCACAA C CACAGGGGGGGGGCAGGGAGCGGGAGAAGAAAAAGAAGGGG
 AAGGAACCCAGGAAGGAAGGGGAGCAAAGGAGCGAACACCGA ACAAAAAACCAACCCAAAGGAGGGAAGAGAGGAAAGGGCCBG
 GAAA $A \operatorname{AG} \operatorname{A} A \mathrm{~A} G A \mathrm{G} G \mathrm{G} G A A A A A A A G G A A G G G G G A A C C A A G G G G G G$ A GAA $A \operatorname{GAAAAAGGAAAAAAAAAAAGGGGGAAAGAAGGAACCGG}$ C CAAAAAAAAACCCAGAACAACGATAAGGACAAACCAGAAGG A GAGAGAAAAGGGGGGCAAGAAGAGGCCAAACACGAAGAGAG A G G GAA A A CAGAGGGCAAGAAGAAAGAAAAGAGAAGAGAAAA GAAAAACCAACCAAGGAAGGGGAAGGAGAAAAAAGAAAAAAA G G G A G G A A G G G A A G G G G G G C G G G G C G A A G G GA C A G G G G GA G A C C G A G G G G A C A A A G C A G A C C G G A A G A A A A A C GCGG G A A A A A G AAAAAAAAGGCCAAGGAAGGGAAGGGACGGAAAAAGAAAGGA G G A A G GAAA $A \operatorname{A} G \mathrm{G}$ GAGGGGAAAAGGGGAAGAGGGGAGAAGGGG A G A A A A A A C A A A A G G GAA G GCCGGAAGAACGGAGGAAAGGAG A A A C A A A G A G A A G G A A A A A A GAGGGGCCGGAAGAAACGGGCA A G G A G GAA $A \operatorname{GCC} C \subset A A C A A A A A A G G G G G G A A A A G G G G G G A A B G$ $C \subset C C G G A A G G G G G G A A A G A G G G A A A A G G A A G G C C G G G G A A G G$

G GAA A GAGAAGGGAGGGAAGGGGGAGGGGGAGATGAAGCCAC A GAC $\mathrm{C} A \mathrm{~A} A \mathrm{G} G \mathrm{C} C A A \operatorname{A} A \mathrm{~A} A A A A G G A G A A G G A A A G A A G A A A G G A$ A G G GAA A G A A A GA $A \operatorname{A} A A A G G G G G G G A G A G A A A G G G A C A A G G G G$ AGAAAACCAAGGCCAAAAAAAAAAGGAAAAAAAGGGGAGAAG A GAAAGGGCCAAGAAGGGAAAAAAAGCAAGACAGCCCCAGAG A G G G A GAGGGAGGGGGGGAAAAGGGAAGAACCAAGGAGCAAA G G A A A C G G A A G A A G A A A G G A T T C A A A A A A G G G G GA G G G G G G G GAAAAAGGAAACGAGGAGGAGGAAAAGGAGCAGATTAAGGGG G G G A A C G A C C T A A G GAAAAGGGCCAAAACCAAGAAACC G GA G AAGGGAAGGGAAGGGGCCAAGGAAGGGGGGGACAAAGAAAAA G G G G G G G G A A G G G G G G G GAA $A \operatorname{GAAAAAAAAAAAAAGGAAAAGG}$
 G G G G A A G G G G G G C C A A A A A A G G G G T T G G G G A A G G A A G G C C C C A A C C A A A A A A A A C C C C G G G G G G G G G G A A G G G G G G G G A A G G G G AACCCCGGAACCAAAAGGGGAACCAAGGAAGGGGGGCCGGGG G G G G GCGGAGAAAAACGACCGGCCAAGGGAGCGAGGCCAGGG A A A A G G G G A GAA $A$ A $A \operatorname{G} G A A A A G G A G C A G G G G A A C X A A G A C A G G$
 A GAGAAAAGGGGGGACAAAAGAAAAAAAAGGGGAGGGGAGAA
 C C G G A A G G A G G GAGAGAAAGGGGGAGAAAGAAAAAAGAAAAA AAAAGGGGAAAAAGGAGGAGCCAAAAGGAGACCAAAAAGGAC G G G G G G G A A A A A G G A G A G A A A A G G A A A A A A G G G A A G A G A G G A GACCGAGGAGCAGGGGCCAAGAGGGAGGAAGGCACCAAGGAG AACCAAGAAGAGAGAGAGGGGGAGGGGACGACAAGGGGAGCA GAAGAGGAAAGGGGGGGGAGAACCGGAACAGAGAGGATAAGA GAAGGGGGAAAAGGAAAAAAGGAAAAGGAGAAAGGAAGAAAA G G A A A A A A A A A ACAAGAAAAGGCCAAAAGGCCAAAAAAAAGG C C CACCAGGGGGGGCGAGGAAAACAGAGAGAAAAAAAACCAA G G A A A A A G A A G G GACCGAGAGGGAAACGAAGAGGAGAACCAA G G C C A A A G G A G G A A G A A G A A A A G G A G A A A A A G A A A A A A G G A A GAGAAGAAAAGAGAAGGAGCAGGAGGGAAGGAAGCCAAGAAC $C \subset A G G A A A G G G A A A G G A A C C C A G A A C G G G G C C A G G G G G A G G A$ G G G A A G A G GAGGGGAACAACAAGGGGGGAAAAGGGGAAAGAC AA G GAAAACCGGAGCCAAGGCCGACCAAGGAGGGGGAGAAAA

 AAAA $A$ A A G G GAAAAAAA AAGGAAAAGGGGGAGAAAA GG G GAA

 AAAAGGAAGGAAGGAAAAGGGGAAGGAAAAAAGGGAAAAAAG G GAA $A \operatorname{GAA} C \subset G G A G C C G G G G A A T A G G A G G G A A G G A A G G G G G G$ AAAAAAGGGAGCCAAAACCAGAAAGCAAGGAGAAGAGACGA AAAGAGGAGAGGAAAACCAGGAGGGAAGAGGGAGAGCAGAAG
 G GACAAAGAGAAAGAAGGAACACCAACGGGAGGGGCGACAGAG GAAGGGAGTTGGAGCCAACACCGGAGAAAAAGGGGAGGGAAA A A G G G GACAGAGGGAGGGGACCGAAAAAGGAAAAAAAGAAGG A GAA A G G G G GAGGAGATTAAAAGGAAAAAATAAGAAGGAGAA A $G \operatorname{G} A \mathrm{~A} G C \subset A G G G G G G G G G G G G A G G G G G A C A G A A G G G C A G G T T$
 AA G G A A A A A A A A G GCCAA G GAACAGGGGAGATAAAACAAA G G A A A G G G A G G G A A G A G G A G G G G A A A A A A A C C G GAACCGGAGAA GGCCGGGGAAAAAAAAGGGGGGGGACAGAAGGCAAAGAAGAG A A A A A A A A A A G G G G GAA $A$ A A GAGAAAAAAA $A A A G G G A G G G G G G G$

 A A A G G A A C G G A A G G G A A GAA $\operatorname{A} \boldsymbol{A} G G G G G G G A A G G A G A G A A G G G G$ A GAAAGGAGACCCCGGAAGAGGAAAAAAAAGGAACAAATTGG

G G G G G A CAAAGAGGCCAGGGCCAAAAAAGAAGGGAAGAAAAA
 CAAGAGGGAAGAAAGGGAAGAAGGGAAGGGAACCAAAAAGAG A GAACAGGAGGGAACAGGAGAGAGGGAAGGCCAGGAGAGAAA
 G GAA $\operatorname{G}$ GAAAAAAAAAAAACCGACAAGGAAAGGAGAGAAAGAA G GAA A A A G G G G GAGAACCAAGGAAAAGGGGAGAGGGAGAGAA G G G G GAAAGGGAAACCAGGGAAGGAGGGAAAAGAAGCCAAGAG
 AGGGCCCCGGGGCCGGGGGGGCCAAGGAGGACAGCGC
A ACGGGGAAGAAGGGGGAAAAGGGGGAGGCCGGAAAGAGCC A G G G G GC CA $\operatorname{CA} A A G G A A A A G G A A G G A A A G A G G G A A A G A A G A G G$ G A A A G A A A G G A G G G G G A G G G A G A G G G A A G G G G A A G GAA $A$ G A A GAGGCCAAGAAGAGAGGGGGGAAGGAAGAAGGAACAGACABG G GAGAGCCAAAAAAGACACACCGAGGGGAAGGAAAACCGGGG AA $A G A A A A G A G G C A A A A G G A C A G G G G G G G A C C G A G A G A A G G G$ GAAA $A \operatorname{A} \operatorname{AAACCGGGGAAGGAGGGAAAAAAGGGGCCBAAAAGAA}$ G G G G G A G GCAAGAAGGCCGGAAGGAAGAGACAGGGGAAGAAA $G G A A A A A A A A G G G G G A A G G A A G G G G G A A G G G G A A A A G G A C A A$ A A C C A A A C A A G G G A G GC C A A G G G G G G G G G G A G G G A A G G A G G G AAGGGGGGGCAAAAGAGGAAAACCGGAAAGAGAGAGGCAGGG A GAGAAGGGGAGGGGAAAGGGGCCAAAAAAAAAGAGGAAGGG ACAAGGAGCGGGAAGGAAGAGGGGAAAAGGAAAAAGAGAGAA A G GAA A G A A C G GAAAA A G A G GAGAGGACAAAACCCCGAAAAA G G G G A G A G A A A GAA A A G G G GAAAA A G G G G G G G G A A A A A A C C C C G GAA A G GAGGAGAGCCCAGAAAGGGGAACCGGAACCCCAAGA G GAACCGGAAAAAAGGGGAAAAAAAAGGGGAGGGGGGAAAGA CACC G GAAA A GAACGGGGAGAGGGGGAAGGGGGGGGAACAA G A A G A A A G G G G A A G G C C G G G G G G G A A A G G G G G A G A A G A G G G G G A A G G A GAAA A $A \operatorname{AGGGGGGAGAAAGGGGGGAAGGAAGAAAGGGG}$ A A TAA A A G GAAACCACGGGAGGCAACGACAAGGGGAGAAAGAA GAAGGAAGGAGGGGAAAAGAAAGGGGATTTAGCGGGGGCCGG G GAAGGCCAAAAGAACGGACAGAAGGAACCAAGGAAGGGGCA
 C C G G G A G GCA G G G A C C G A A CAAGGAAAAAGAAGGAACAA A A T G GAACCGAGGAAAAAAAGAAACAAGGGAAGGAAACCGAGGAA G GAA A G G G G G GAGGAACAGACCAAAAAAAAGGGGGGAGGAGA AAAAGAAAAACCGAGGCCAAAAAGGAGAGAACGGAAGGGGGG C C G G G GA G A A A A A T G G G GCCAAGGAGAAAACACC G G CAAG GA A GCAAAAAAAAAAGCAGACAAAAAAGAGGGAGAAAGGGATXA A A A A A G G GCC G G A A G G G G G G A A T T GAA A G G GA G G G G G G G G A A GAGAGGTAAGAAACGAAGACGAGGACGAAGGAAAGGGCBAGB A GAAGGAAACGAAGGGAAGGAAGAGGAAGGAGAAGGGAGGGG GAAAAACCGGGAAAGGGGCCGGGGAAGGAGAACAAAAAAGAA G G G GACCCGGGAGGAAAGAACCAGAAGAGAACGCGGAAAAGA A A A A A A A A A A G A A A A A A A A A G GAA $A \operatorname{GAAGGGAGGGAAGAAGGG}$ TAACAGGAAGAATTAACGGGGACCAAGGAAGAAGGAAGAAAA A A G GAA A G GAGGAGAAGGAACCGGAAAACCGGGGGGCAAAAA
 A A G A G G A A G G A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G G A A G G G A A G G A G G A A A G G G G A A A A G G G G G G A A C C A A C C A G A GAC $G G C A G C G A C C G G A G A A G A G G C G G G A C G A G G G G A A A A A G G G G G$ C C C C A A C A A G A A A A C C G GAAAA A A A GGGGGGGCCAAG G GAA G GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACCAACA GAAAGAGAAAGGGAAAAAGAGAAGCCAGAGGGAGAAGGAACA
 GAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAGAAAAGAG GAAGGGAAGGAAAAGGCATACACCAAAACCTAGGAGAAAAAA $C A G G A A A A G G G G G G A A A G A A A C C A G G G G G G C C A A A A C C A A G G$

CCGGGGGGAAAAGGAACCAAGGACGAGGAAGGGGAGGACCAG A A G G G A A G G A G G G G A G A G A G C C G G A G G G A C G A G A A G A G G G G G A A A A A A A G A A A ATTAAGGGGGAAGCAGATTAAAAAAAACAAA A A A A A A A A A ACCGACCAAAAGGGGGGAAGGAAAAGGAACCGG G G G GAA T TAGAAGAGGCCCCCCAAAAGAAGTAAAAAGGGATT A A A C A ACCAAAAAAGAAGAGAAGGGGGACAGGAAAGCCAGGG CAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A A \mathrm{~A} G A A C C G G G A A G G G G G A A G A A A A G A C G G C A$ AAAGAGCAAGAGAAAAGGAACCAGAAAAAACCAAGGGGAAAA G G TAAA A A GACAAATAAAAAGAGGAAAAAAAACCCAAGAGAA GGAACCCAGACACACCACCCGGCCGGGAAGGATTAAAAGGGG A A A A G G G G A A A A G G GAGAGGCCCCGGCGAGAGAGACAAAAGG G G G GCCAGAAGGAAAACAGGGGGGAGCCCCAAAGGAACAGAG $G G G A A C C G G G G C A A G G A G G G G A A A A G A G G G A G A G A G A A A G A G$ AA GAAAAACCGACCGGGGAAGGAAGATTAAGAAAGAAGAGAC AGGGAGCCACAGAGGGGGAAGAAAGGAAAAAGAAAGGAAGCA G G GAGAAGAAGGAAAAGGAAAAAAGAAGAAGAAAGGAAAGGG $C \subset G G G A G G G A A A G G G G G A A G G A A A A G A C A A A G A A A G A A G G G G$ A A G A A A A A A A G GAGGGCCAAAAGGGGGGGAGGGAGGGGAGAA AA $A$ A $\operatorname{GA} A G G G A A A C A C G G G G G G C C A G G G G G A G A A A A C A G G G G$ A A G G G G G A G GAC G G G G A A A CAACCAAGGAAGGGA G GAA G GAC AAGGAAGGGACCAAAGTTAAAGGGAAAAGAAAAGCCGGGGAG A A GAGAGAGGAACCGGAGCCGGGGAGAAAGAAAAGGAACCGG A G A A A A A A A G G A A A A A A A A A GAGGGAGGGGAAAAAAGAAACC A A A A C C G G G G A A A A G GCCAAAAGGGGAAAAAACCGGAAG GAA C CAA $\operatorname{C} G A A C C G G A A A A G G G G G G A A A A A A C C A A G G G G G G A A A A$ G G G GAA $A \operatorname{GGG} A A A A A A C C A A G G G G A A C C A A C C G G G G G G A A G G$ G G G GAACCGGCCGGGGGGGGGGGGGGAAAACCCCAAGGAAGA A A G G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G G GGCCAAGGGGAAAACCAAAAGGAAAACCAAAACCGGGGAGAA AACCAAGAGAACACAGCAACCAGGGGAGAGGGGAGAGAAGGA GAGGGGGGCCGGAAAAGGAAGGAGACAGCCAGGGGGAGAGAA
 GAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGGGGAAAAGAG

 G G G GAGAGAAAAGGAAGACCAAGGGACCGGGAGGCCCCAGAA ACAAAGAAAAAGACGGCCAAGGAAGGGGACGAGAAAAGAAAG C CAA $A \operatorname{GGGGGAAAAAAAGGAGGGGGGAAAAAGGAAAAAAGGAA}$ A A G G A A G G A A A A G G A A A GAGACAAGGGGCCGAGGAAAAGGAA CACCCCTTACACCCAAAAAAAAAACCAAGGAAGGGGCAAAGB $G G C A G G G A A A G G A A G A G C G A G G G G A G A A G G A C A A A G A A A G C A$ GAAGAAGGAGCCAACAGAGAAGAAAAGAGGGAGATTAAAA G G $A$ G GAAAAAAGGAGGAGGGAAAAGGAAAAAGGAGACAAGAGAAA C CAGGGAAAAGGAAAAGGGGAAAAAAAAAAAAAAAAAA G GAAG G GCCGGGGGGAAGGGGAAAGGGAAAGACAGAACCAACCAAGB
 GAGGAGCAAGGCAGAAAGAGAGAACCGGAGAGAAGGAACAAA A A A G A C A G A G G GAA A GAGGGGGGGCAAGTTAGAAAAAAAA GA G G GA $\operatorname{l}$ GAGAGAACCAGAGGGGACAGAAGGAGGCCGGGGAAGA G GACAGGGAAAAGGCCAAGGGGAGAAGGAAAAAAGGAAAAAA AAAACCAGAGGAGAGAAGGAAAAGGAAGAGGAAGAAAAGGAA $A C A A G G A G G G C A G G G A A A A G A A A G C A G A C G A A G G A G A A A G A A$ G G A G C C G A C C A A G G C A G A G A GA $A \operatorname{GGGGAGGACACAAAGGGGGA}$ G GAAAAGGGGGGGGGGGGGGAAAGCAGACAAAAGAACAAAGA G G GACCGGGGGGCCGGAAAAAAGGAAGGGAGGCCGGGGAAGG ATAAAAACCCGGGGGGGGAAGGAACCGAGACACCCAAGTTAG A A GAAA A G A A A A A $\mathcal{A} G G A G A A A G G G C C A A G G G G A G A G A G G G G G$ GA $\operatorname{G} G \mathrm{~T} T \mathrm{~T} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A A G G G A C A G G G G G G A G G G G A A G A$ $A G C C A A G A A A G G G G G G G G G G A A A G G G G G G G G A A A G A C A A A G G$

CAGGGGAGAGGAGGGGGGGGGGAAGGAGATCCGGGGAAAAAA
 A A A G A A G G A A C A G A G G G A A C C CAACATTCCAACCGGAGAAAA A A A A G G G GAGGAAGAGAGAAAAGGGGGGGGCCGAAAGAGGAA GAAAAAAAAAGGAAGAAAGAAAGGAAGAAAAAAAGGGGGGAA A A A ACCAGACGAATGAAAGACAGGAAGAGGCGGGGAAGAAAA AAAACCGAACGGAGCCAAAAGAACGGAAAAAAAAAAAAGGGG AACCCACAGAAAAAAAGAAGAAAAGAAAGGCAAAGGBAAGAC GAGGGGCCACAGGAAAGGGGGCAAGGGGAAGGAGGGAAGGGG $C G C C G G G A A A A A G G G G G G A A A A G G A A G G A G C C A A A A G$
GAAAACCGAGGGGAAGGGGCCGGGGAAGGAAAAAAGGAGGG A A GAGGGGAAGAAGAGAAGAGGCCGGGGGAGAAACCGGCAGG G GAGAAAAGGGGAAGATTCCGGAAGAAAAATTAAAAGGAACC C C G G A A G A G G G GAA $A \operatorname{GGGGGGAA} G G A G G A A G C A A A G G A A G G G G$ ACAAGGAGCCGAGACAAAAAGGGGAAAAACGGAAGGCCAGCC G GAACCGGCAAAGACCCAGGAAAAAAGAAAGACCAAGCGGCC CACCACACGGAAGGCCGGGGAAGGGGAAAACCCCAAAAAAAA G GCCAAAAAAAAAAAAGGAACCGGCCGGTTGGGGGAAAAAGG G G G GAGGAGGCCGGAAGAAGAGAAGGAAGGGGAGGGCCBCCC
 AGGAAGCCGGAAAGGGAGGGAGCCCCAAGGAAGGAAGGCCGG C CAGGGACGGAACCAGAAGAAAAGGAGGACAAAGAAGAAGGG A A G G A G G G A A G G G G G G A A A A $\mathcal{A} G G G G G A A C C G G G G C C A A A A A G$

 A GAAAACCAAAAGAAGCGAAGGCCAAAAAGAAAGGGAAAAGG G G G GAC C G A GCCAGAAGGAGGGGGCCAGGGAAAAACAAGGCC C C G A C C A A G GAA A A A GACGGGGGGGAGACCAGAAGGGGAAAA AACCGGAAGGAAAGGAAAAACCGGGGAAGGAAAAAAGAAAGA GAGGAGACAAGGGGGAAAGAAAGGGGGAAGAAACGGAAAAAA A A A A G G A G G G A A G G G A A C G G A A A C A A G G A A G G G G A A G A G G G G A GAAAGAGAGGGGGAGGGGGGGCCGAAAAGGGGGGGAGGGAG
 GAAACCAAGGAAAACCGGGGAAGGGACGAGGAGGAGGGAGAC $A G G A G G A G G A G G G A A G G G C A G G G G A A A G G G G G G G A A G G A A A A$ GAGGGGGAGGAAGGAAGGGACCAACCAAAAACGGAGAABGAA GAGGGAGGAAAAGAGGAACAGGTTAAGGAAAGAAAAAAGGCC $C C G G A G A A A A G G A G A G G G A A A G A G G G G G A G G G A G G G G G G G A A$
 A A A A A A G GCC G G A A A A A G G A A A G GAAAACAAA G G G G G GAAT T
 A A A G G G G G GAGGGGGGAGCCCCGGAGCCGACAAAGAGAAAAG C C G GCAAACCCACCAGAACAGGCATTGGAAACGAGEACAGAG A G G A G A A A G G A A G G G A G G G G A C G G A A G G G G A A G A A A G G A A A $G$ $A \subset A A G G G A C C G G A A G G A A G G G G A G A G G A A A C C G G G G G A G G A A$ G G G A A GA G G GAA $A \operatorname{GAAAGGAAAAGGAACCAAAAGGGGAAGGAA}$ AA $\operatorname{A} G A A A A A A G G A A G G G G A A A A G G G G G G G G A A G G A A A A G G G G$ G $G$ T T G G A A G G G G G G G G G G A A G G A A G G G G A A G G A A A A G G A A A A AAGGAAAAGGCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAGG A A A A A A A A GAGGAAGGAGAAAAAAAGAGGGAGAAAGGAACAG A GAACAAAAGGGAGGGAAGGGGAAGAGGGAAAGGAAAGAAAA TAATGGAGCCACCAGGGGAAGGGGAAAGACGGAGAAACAA GA A A A G G G G G A C G G G A G C G A C C A G G A A GAA A A G A A A A A A A A A G G G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAGG G GAA A G G G A A A A G G G G G GAAAAGGGGCCGGGGAAAAAA G $A \operatorname{A} A A A$ A A G G A G A GCAAAAAAGAGGGAGGGAAAGAGAGGAAACCACAA G G G GAAAAACAAAAAAGGAAGAGAAAAAAAAAAAAAAAAGGGG $G G A A G G G A G G C G A A A A C C G G A A G G G G G G G G G A G G A G A G A G A G$ GACCGAAGAGAAGGAGGGGGGGGGAGAAGGACAGGGGGGGAA

G GAAGGGAAACAGATACAGGAAAAAAGGAACAATAGGGAAGA G G G GAA A GCCAAAAAACCGGCCGGAAGGGGACAAACCAAAAA AA $A$ A $\operatorname{Ag} \operatorname{GAA} A G G G A A A A G G G G A G G G A A A A A T A G A C C A A A A A A G$ C C GAAAAAGGGGATGGCCAGGAAAAAAAAAGGGATTCCBAGG AAAGGAAGGAGGAAGCGAGGGCCCAAACAGGGAGCAGAGAAA A A A A G GAA A G G G GAAAAACCGGCCGGAAAAGGAAGGAAAAAA ATAAAGAGAAAACCGACCAAGGCCAAAGGGGGAGAAGCACBG ATAAAGGAAAGGAAAGGGAACGGGGAGGAGACGACCAAGAAA A A G G G G G G A A G A A A A A A A A A A A GAGGAAGGGGCCAAGGAGAA GGCCAACAAGAGAGGGGGGGAAAAGGTTAAGGACAAGGAAAG A A GAAAACGGAAAAAACAGGGGGGGGGGAAGGAGAGACCCAA A GAAGGCCCCGAAAAGCAAAAAAAAAGGAAAAAAGGGGAGAA GACAGAGGGAAAGGGAGAAAATAGGGGAAAAGAGAAGGAGAA G G G GAA $A \operatorname{GAA} C C G G C C G G A A A A G G A A G G A A A A A A A A A A G G G G$ G GGGAACCGGAAAAAACCCCCCGGCCCCGGCCAAGGAAGAAA $G G C \subset A A G G G G A A A A A A G G G G A A G G G G G G A A G G G G A A C C A G B A$ A GAGGAAAGGCCAAAAAAGGAAGAAACCGGAAGGGGAGAGAA A G G G A A A A A G G G G G GCCAGGAAGGGAAAGGGGAAAAAAAGGG GAGGAAAACGAGAGGGAGAGGAAGGGCAAGAAGGAACAAAGAG A G G A $\mathcal{A} G C C G G A G G G G G G G A A C C A G G G G G C A A A A A C C T T A A G G$ G GAACCAAGGAAAAGGGGGGAAGGAAAAGGCAGGAGGAAAAA G GAAAAGGAAAAGGAAAAGAGGACAAGGAAAAAGAGGGCCAG $G G A A A A A A G G A G G G A A A G G G G A G G A A A G A A C C G G G G A A A A A A$ G GCCAAAAGGGAGGAAGAGAGGAGAGGGGAAGGGAAAGACAG GAAGGAGGGAAAGGGAGAGGAGAGGGAACGACA GGGGGGGGA G GAA A G G G A C A A G G G G G G A A G A A A G G G G A A A T C C G A G G G G G G
 G GCCGAGGGAAAAAAAGAGGGGCCGGAAAAGGGGCAAAAAAC G G G G A A G A A A G GAAAAAAAAGGGGAAGGGGAACACCGGAGAA G GAAA A $A \operatorname{G} G \mathrm{G} G A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A G A G A A A A A G G G G G G G G G C C A G A A$ G G G A G G G A G G A A G G A A A A G GAA A GAAGGCCAACCGAAGAGAA A A G GAA A G G GAAAAAAGGAAAAAAAAGCAGAAGGGGAGAGAA G GAAAAGAAGCCGAGAGGGAGGGAGAGGGAGAAACCTXGAGG A A A A A A A C G G G GAGGAAAGAACACAGAGAGAAGGAACCAGCC A A A A G G A A G A A G A G A G G G G G A A A G G G C A A G G A A A A A G G G G A A A A A G G A G A A A A G G A A G A G G G G G G A G G G A A C G C C C A C C C C A G A AC GAAA $A \operatorname{A} A A A A A A G A G A C G G G A C A A G G A A G G A G A G G G G G G A$ A TA A G G G A G G GAA $A$ A $A \operatorname{GGGGGGGACACAGAAAGGACAAGGGGA}$ C C G G A GAAAGCCGAAAAACCGGGAGAGGAAACAAAAAAACAG A G A T A A C C A A G A A GAA $A \operatorname{GAAAGGAGGACAGGAAAGAAGGCGCC}$
 $G G A A C A A G A G A A G A A G A G C C A A G A C C A A G A C C A A G G G G A G G G$ A G G GAA $A \operatorname{GGG} G A A A G G A A A A A G A A G G G A G A A C A A G G G A G G G A$ TACAGGCAGAAGAGGGAGGGAAGGGAGAAGAGAGBAGGAGAC GAACGGAGAAAGAAAAAAAAGGGGAAGGAGGGGAGGCCBGGA $G G A G A A A A A G A A G G A A A A A A A G A G G G A G G G A G A G A C G G C C G G$ A G G GAGGACCAAGGAAGGGGAAACAGAAGGAAGAAGCAAAAA GACCAGGGAGAAAAAGCAGGAAAAGAGAAAGGGGAAAAAAAA G GAAAAAAGAAGAACCAGGGCCGGGGAGGCGAGGAGCCAAGG G GAA A G G G A GAA A A G GAGGGAAAAAACCGGCCAAAAGGAAGG G G G G A A A A G G G GAA $A \operatorname{GGGGAAAAGGCCGGAAAAGGAGGAAAAG}$ GAGGAGGGGGGGAAAAAAAAGGCAGGAGACGGAGAACCAAAA AAAGGAGGCCAAAAAAACAGCCAAAGGAGGCCAACCGAGAGG GAACGGGCACGGAAAAAAAGAGCAGAGAAGAAAAAGAAAAAA G G GAACACGGAGGAAAAAGGCAGGAGAAAAGGACAAGGGGGA GAAAGGGGAAAACAGGGGGAAAAAGAGGTTGGAAAGAAGAGG $G G A G A A A G G G A A G G C A G G A A A G A A G G G G A A A A A G A A G A B A A A$ G G G G A GAA $A$ G A A A A A C A A A C G GCC A A A C CAA A A GAA G G CAC G G CAAAAAGGAGGGAAAGAGAAAAAAGGCCAAAGGGAACCAGGG

A G G G GAA $A \operatorname{AGGGAAAGCCGGACAAGGAGGGGGAGGAAGAAGA}$ C C G G A A G A C C G GA G G G GAGAAGAACCAGAAGGAGAA GAAGGG A G GAGGAAAAGGAGAAAATTGGAAGAGGGAGAGABAAAGGGG A A A A GA GAA A A A A A CAA A A A G GAA G GAAAGAGGGA GAA G G G A AAAAGGAAAAAAAAGAGAGGGAAAAAAGGGGAGGCAAAGAAA GACCGAACAGAAAAAGAGGGGGGGCAAGAAGGCCGACCAGAA AACCGGAAAAAAAAGGAAAAGGGGAAGGAAAAAACCCCAGAA AAGGCCGGGGAAGGAAGGGGAAGGAAAAAAAAGGGGAAAACC GGCCAAAATTGGAAGGAAAACCGGCCAAGGAAGGGAAACCBG A A A A G GCCAAGGGGGGGGGGGGGGCCAAACCCAGGGA
 A A G G G G A G G A A CAAGGGGGAAGGGGGAGACAAAGCCAGAGAA A A A G A A G G G G A G A A GAGGGGGGAAACGGAAAAAAAAA GA A A A A AAAAGGGGAAAAAGGGACAAGGAAAAGGGGAAGGAGAGAAGG AAGAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCGGAAGG A A G G G GAAAACCGGAAGGGGTTAAAAGGCCAAAAAACCCCGG
 G G G G A A G G A A A A A A A A A A A A A A G G G G G GAA $A \operatorname{GAAA} G G A A C C G G$ $G G A A C C G G G G A A A A A A A A G G G G G G G G G G A G C C G A G A A G A A C C$ A G G G G A A G GACCGAGAGGCCAAACAGAAGGGGAAGGCCAAGA AAAAGGGAAGAGAGAGGAAGAAGGACAGAAGAAAGGCCGGAA G GAGGAGGAAAAAAAAAAACAGCCGGAAAAAAAAGGGGGACC A G A A A G A G T T G GCC G G A GAAGGGAAAGGAACCAAAAAAGGAG G G G G A A A A G G G GAA $A \operatorname{GCCCGGCACCAAAACAGAAGACGGCCBA}$ GAGAAAAAGGAGGAGGAGAAAAAGAAAAAAAGACCAGGAAAG GAAGGAGGAAAAAAAAAACCGAGGACGGAAAAGAGAGGAAAA GGCCAAAGGGGAAAGAAAAGGAGAAAGAAAAAGGAGGGAAGA G GCCGGGGGAAGACAGAGAAAAAAAAGGACAAGGCACAAA GA A A A A G G G G G A A A A A A A A G GAGGATGGGGACCCGGGGGAAAGG AAAAAAGGAGAAAAAAGGAGAAGGAAAAAAAGCCGGAAGGAG A A G G A A C A G G A A GAAA $A \operatorname{A} G C A A A G G G G G G G A A A G A A G G C A A A$ $C \subset C C A A G C G G G A A A A A C C G G A A A A A A C G G G G G A A A A C C G G A A$ G GCCAAAAAAGGGGAAAAGGGGAGAAGGGAAAGGGAAGGGGA G G A A A A A A GAAA A G G GAGGGAAAAAAAAGGGGAGAGGGTTAA ACGACAAAGGAAAAAAAAGGGGGGAAGGGGGGCCGGCAAAAG AC G G G G A G G G A G A G A A G G G A G A G G C A A A A A A A G G A A A A G G G G GAGGAAGGGGAAACGGCAGGCCAGCCAAAGAAGAAGGGAACA A GAAAAAAAAGGAAAAAAGAGGCCAGAAGGGGGGAAAAAAAG C C G A G A C C G G T T G G A A G GA G G A C C C A G G G G C C C C A A C C G G G G
 CAGAGGGGGGGGGGAACAAAAGCCAGAGCAAAAAAGAAAACA C C A A A A A A A A G G G G G G A A A A A A A A A A A A A ACC G G G G G GAAAA A A G G G GAGAGGAGAAGAAGGAAGAAACCGGGGGGAGAAAAAA GAGAGAGGGGAAGGAGGACAAAAGAAAAGAACCAGGAGCCGG
 G GAAGAAGACCAAAAGGGAAAACCAAGGAACCACCCAGAAAA AGCCAAGACAAAAGACCCGGGGCACCAGCCAAAGAGCAAGGA A A G G G G G G G G G A G G G G G G A GAGAAAAAGAGCCAGCCA GAGAA G GAGCAAGAAAAGGAAGGAAGGGGGGGGGAGGGAGGGAGACA G G G G A A A A G GAGAGGGAGAAAAAAAGAGAAGGAAGAAAAGAA $C \subset G G C C G G A A A A C A C C A C G G A G A G A A G C A G G G G G C A A A G G G G$ G GAGGGGGGGGAAAAACAAAGGGGAGGAGGGGGAGAAAAGAA A A G G C C A G A A G G G G A A A A G A A G G G G G A A C C G GCC G G G G G A A G G GAGCCCGGAAATTGAAGGAAGGAGGGGAGAAGGAAAAGAAA G G G GCCGGAAAGGGAAGGGGAAGGAAGAGGAGAGAGGAGGAA G G G A A G A G A A A A G G A A A A A A A G G GAAAAGAGAGGGGAA G CA G AACCCCGGAGGAGGACAACACCAAAAAAAAAAGGCCAAAA G G A A G G A A G G G G A A G G C C G G C C G G C C A A A G G GA A A G A C G G A G G A AA $A$ ACAGAAGAGGGAGAGGGAAGGAGGGGGAGAGAAAGGGGG

G G G GAGAAAACCAAGGAAGGGGAAAAGGCAAAGACCGGAGGG
 AA $A G A A C C G G G A C C A G A G T A A A G G A A G G G G A A G G G A G G A A A A$ AAGGCCGGGGAACCAAAAGGGAGAAGAAAGAAAAGGGGGGGA GAAACAAAGAGGAAAGGGGGAACAAACAGGACGAAGAAGAAG G GACAAAAAAGGAACAGAAAGAGAGAAAGGGACCGGGGAGAA GAGGAGGAGGAACCGGGGAAGGGGGACCCAGGGACCGAAAAG A A T TA $A \operatorname{GGGGGGGGAAGAAAAGACGGAGAAAGACCAAAAAAA}$ A A G G G G A A A A GAGGAACCGGGGCCAAGGGAAAAAAATACACC AAGGAAAGAAAAGGAAGGGGCAAGACGAAGAGGAAGGAAAAA AACAAAACGGGAAAAAAGAACCGGGGAGGGAAGGAGAAACAA
 G GAAAAGACCGGGGAAGGAGGACCACAACCAAGGAGGGAGAA A A A C G A C C G G G GA G G G G A A GAAA A A A G G C C T T A A A A A A A G G A A G GAGGGGGAAAAAAAAAGGAAAAGGGACGGAGGGGGGGGGGA G G GACAACAAGGGGGGAGAGGGAAAAAAAAAAGAGGAAAAAA A A A A A A A A G GCCACAAAAAAAAAAGAGAAGAGGGAAAAGAAC GAGGGGAAAAAAGGAGGGGGAGACGAACGGAAAGACAGAAAA $G G A G A A A C A G G G G G A A A C G G A G G A G G G G G A A G A C G A A A A A G A$ G G C C A A G G G G G A C C G G G G G G C C A A G G G G A A A GAG GAA GAAC C G GAAGGAAGAAGGAAGGAGACCGAGGGGAAAAGGAAGGGGAA G GAGGGGAACAAAGAAGGAAGGGGGAAAAAAGGAAGGAGAAA A A G A G A G A A A C C A A C A A A G G G G G G G A CA $\mathcal{A} G G G G G G G A A G G G G$ A A A C A A C C G G G G G G A G A G A A G G A G A A G A A G G G A G G A G G G A G A GAAGCAAAGAGGAAGGGGGGGGCCGGAAAAGGGGGAAAAAGB G GAGAGCAGGGGGAAAAAGGAAGGAAGGGGGAAAGAAAGAAG AAAAGGAAAAAGGGACGAGGGAAGGAAGAGAAGAAAAGAAGG G G G G A A G A GAAA A G G GCCAGGAAGCCGAGGGGAAAAGGAAGA GAAAAGAGCAGGAAAGAAAAAAGAGGAAGAGGGGGGAAAAAG $A G C C G G A A A A G A A G A G A G G G A A G G G G A A G G G G A A G G A A G A A G$ A A A A A A A G A A G A A A G G A A A A A G G G C C G G A A G G A A A A A A G G A G G GAAGGAAGGAAGGAAGGCAGGAGGAGGGAAAAAGAAGAAAG GACAAGAAAGGGGAGGGAAAAGAAAAAAAGCCCACAGBACAA A A G GAGCCAAAAAAGAAAGAACGGAAAGCAGGAGAAAAAACC
 G G G G A A G G A G G GAA $A \operatorname{GGGAACAGCCCAAAGAAAGGAAAGAAAG}$ GAAGAGCCCCCAAGAAGGAGGGAGAAGAGGGAGAAAAAAACC AA $A G G G A G C C A G A A C C G G A G A C G A C C G A A G A A A A A A G G G G G G$ GAGGAAGAGGAAGGCAAAAAAGAAAAGGGGAGAAGGGAAAAA G G A A G A G A G A T T G A G G G A G G G A G A A GAGGAAAGGGACAAAA $A$ ACGAGGGAGGAACCGGAGCCAAGAGAAGGAGGGGGGGGAAAA A G A G G A G G A C G A A C A GAGCCGGACAAAGCCAGGAAAAGAAGAG G G G G G G A T G GAACC G G G G G G C C A A A A C CA G GAC C G G G G G G A A G G G G A A A A G G A A G G G G A C G A G G A GAC GAG GAA G G G G A A G G G G A A A A A ACCAA G GAGGAAGGAACGAAACAACCAGAAGCAAAAA G G G A G A G G A C G G A A A G G A G A G G G G G A G G G G G G G A G A A A A G G G A A G G A G G G A G G A G G C A A A G G G G G G G A G G C C A G G A C A C C G G A A AAAA A G GAGAGGAAAGAGAAAAAAGGAAGGGGAGAGGGAGAA GAGGAAGGAGACGGGGAAAAGAGGAGGGGGAGACAAGGGGAC A A G G A C A G A A G A G G C C A A G G C C A C G G G G G A G G G G A G A G A G G A G G GACCGGACGAGAGGGGGAGGGGAAAAAAGAACACAAAACA
 A C A G G A A G A A G G G G A C G A G G C A G A G G A A A A A A G A G G G G A G A C AAAAAACAGGGAAGGGGGAGAAGGCAGGAGAGAGGAAAAAAA GAGAGGAACCACAGGAAGGGGGGACCAGAAAAGGCCAAGGAG AAAAGGCAAAGGGGAGAAGGAAGGGAACAGGAAGAGAGAGAC
 A A G G A G G G G G G G A A $\mathcal{A} G G G A G G G A A G G G G A G G G A G A A C C A A G A$ AAAATAGGAGTAAGGGAAAGAAGAGAGAGGGGAGGGGAAGAG

A GAA A G G G G G G A A G G G G G A A A G G G A A A A G G CACA A A A A GA G C CCGAAAGGAACCAGGAAAGGCCAGAGAAGGAAGAAAAAACAA A A A A GAGACCGGACAAGAGAAGAAAAGGAGAACCAACCAAAA A A G G G A G G G G G GAA A A GAGAAGCAGGAAGGGGAGCAAAAAAC GAAAAAAAGGAAGGAGAGAAGGAACAAGAGGGGGCAAAGGGG G G G G G G G G A A A A A A G G G G G A G A G A G A A GAGCCGGAGCC G G A A A G G G A A A A A A G GCC $C$ G G G G G G G G G G A A GAGAAAAAGGCAAAAA GGGGAAGACAAAAAGAACACGAGAGAAGGACAAGAAAGAAGG A A A A G GCCGGAAAAGACCAGAAGGGAGACAGGCCAGGGAGAT A GAAAAGGGGGAGAGGAAAGGGAACGAGGGGAAAGGA
A G G G G A A G GAAAAAAAGAGAGGGGAGAGAAGAAACCAGAAA AAACCCGAAGAAACGGAACCGGGGAAGGAAAAGGGGGGGGGG
 AAAGAGAAGACAAAGCGAGGGACAAAGGGACCAGAAAAAAAG AAAAGAAGAGGGAAAAGAAAAAAAAGCCAAGGAAAAGGACCA AAAAGGGAAGAGAGGAAAGAGAGGAGGGAACCAAAAGGACAAA AAAAGGAAAAAAGGAAAAGGAAGGAAAAAAGGAAGAAAAA GA ATAGAAGGAAAAGGAAAAGGAAAAAAAGGGGAACGAGAGAAC G G G G GAA $A \operatorname{GGA} G A A A A A A G C A G G C C G G A G G G A A G G G A A G A G A G$
 GAGGAAAGAAAAGGGGCCGGAAGACAGGCCGGAGGGGGAAGA A A G GAGGGAGAAAGGGGACCGACCGGAAAAGGCCGGGGAATAA G G G G A A A A G G G G GA G G GACCAAAAAGCGGGAGAAGAAAGAAC A A G G G G G G GAGAGGAAAAGGAAGATAAAGAAACCCGAAAGAA CAGGACCCAGAGAAAGAGACAGGAAGGGAAGGAGGAAAAAAG $C C G G A A C C G G G G G A C A A A A A A G G G A G A G A G C C G G G G A G A G C C$ ACAGGGGGAAAAGGAAGGGGAAAAGGCCAAAAAAAAGGAAAA
 A A G G G GAA A G G G G GAAGGCCGGCCAAAAAAAAGGGGCAAAAA G GCCGGGGGGGGAAAAAAGGGGAACCGGAACCAAGGAGGGCC A A A A ACAGCAACCAAGAAGGAACAAGGGGGACAAGGAACCAG AAAAGGCCGGCCACCCAGAAGGGGGGAAGGAAAACAAAAAGA GAAACAGGGGACCAAGCCCAGGAAAGGAAGAGGGGAAAGGAA $A C A A G A G A A A A G G A A A G G A A A G A A G G G G A G A A A A G A G A G A G A$ $A G C A G G G A G A A G A A G A A G G G A A G A G G A A A A G G A G G A A G A A A A$ C C A T G G A G A A A G G G A A G G G G G GCCTAAAGGAACCCCAGA G GA AAAAAGAAACACGGGGGGAAGAAAGGAGAAAGGGGAAGAGGG $G G C C C C C A G A A A G G G G C A G A G A C C G G A A C C A A G G A A G G A G A A$ A G GAGGGGAGAGGAGGGGGAAAGGAAAGGGCAAACAAAAAAA A A G G G GAAACAGAGAGCAGGGAAAAAGGAGAGAGAGGAACAA AAAAGAGAAAGGGGAGGGGGAACCGGAAACGAAGGAAAAAAG G G G G A A G G A G A T G G G G A A A A G A A A G G C C G G A C A G A G G G A G A G AAAGAAGGCCAGGGACAAGGTTGGAAGGGGGAGACAGAGGGG GAGAAAGGAGAAGGGAAAGGGGCCGGAACCCAAAAAGGAGAA A A G GAAAAA A A A G G G GAAAAAAAAGGGGGGGGGGGGAAA GAGAA A A A A G GAAAACCGGAGAGAGGAGAGGAAAAGGGGAAAAGGGG AAGGCCGGGGCCAGGGAAAAAAAAGGAAAGAGAGAAGAAAGA G G GACAAGGGGAGAGGGGAAACAGGAGAGGAAAAGGGGGGGG AAGGAAGGAACCCCAAGGAAAAGGAAGGGGAAGGGGAAAGAA AAAAGGGGGGAAAAAACCGGTTGGCCCCAAGGGGAAGAAAGG A A G G A A A A G G G G G GAACCAAAAAACCAAGGGGAAAACCGGGG G G A A A A G G G G G G G G G G A A G GAAAAA $A \operatorname{A} A A A G G G G G G A A G G C C G G$ AAAACCGGGGAAAAAAAAAAAAGGAAAAGGAACCAACCCCCC G GAAGGAAGGAAGGCCCCAAGGAAGGAAAAGGAAAAGGGGTT AAGGAAGGAAAACCACAGAGAAGGAAGGTTAAAAAACCGGAA A GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAGGGGAA
 C C A GAA A G GAA $A \operatorname{A} G A A A G G G G A A A A A G C A G G G A C C A C A A A A A G$ $A C A G G G C C A A A A C C G A C C G G G G A A G G A G A A C C A A G G G G G G C C$

AAGGAAGGAAAACCGGGGAAAAAAGGGAAAAGGAAGAGGGGG C C GAGCGGAGAGCCATGGAGCACACGCCAACAGGAAGAAAAG A A G G A GCAGAAAGGGAGGCAACGGGAGGGGATGGGAAGAGAG G G GAAAGGAAAAGGGGGGCCCCAAAGCAGAAGGGCAGAGGGG AAGAAACCGAGGCAAAGGAGTAAAGGGAAAGCCCGACAAAAA A ACCAAGGAAGGAACCAAAGAGAGGGCCGGACCAGGAAAACC GAAACCAAAGCCGAGCAAAGAGAAAGGAGGAAGAGGGGGGCG AAAAGGAGGACCAAAAAGGGAGCCGGAAGGGAAAAAAAGGAA C CAC GAGAAAGACCCCGGAAGGCAGGCCAAAAGAAGAAAGAA ACGAGGGGAAGGAAGGCAGGAGGAGAAGAAGAGGGGGGCCCC
 G G A G A G A A A A A A A G G A G G G A A A A G G A GAGGGGGGG GAA G G A A C C GACCAGCCGGAGGAGAAAGGGGGGAAGGCAAGGAGAAGAA G G A A C A A G A A A G G G G G G G G G A A G G C A G G T T A G G G C C G G G G A A A A G G G G G G GAGGATAAGGAAGGGAAAGGGGACAAGGGAAAAA GAAGGAGAAAAAAAAAAAGGAAAGGGAGGAAGAAGAAGAGAA GAAAA $A$ A $A \operatorname{A} A A A G G A C G G A A G G G A G A A A G G A G A C A G G G G G C C$ AACGGAGGAAGGAAAGCAAAAAAAAAGAAACCAA GGGGGGGG A GAAAGAGAGGGAAAGCCGGCCGGGGGAGGAGAACAGAAGAG AACGGGCAGAAGAAAAAACCAGGGAAGGGGCCAGACAAGGAA AACCAGAAAAAAGGAAAACCAAGCAGAAAAGGAAAACCCCCC AA $A \operatorname{GA} A A A C A A A G G G G A A G G A G G G A A G A G A G G C C G G A A A A G G$ A A G G A A A A G G A G G G G A A G A A G G G G A G G G G A G G G A G G G G A A A A
 A A A A A A G G A A A A A A C CA A G GAA A GCAAAGGGGGGCCGGAGAG GAGGAGGAAACCAAACAGGAGAGGGGCAGGGGGAGAAAACBG A G G G G GAA $A \operatorname{GA} A A A G G A A G G A A A A G G G A G G G A A A G G A A C C C C$ G G A G G A G G G G A G A A A A $\mathcal{A} G G G G A G G A G A G C A A C G G A A C C G G G G$ C C G GCCGGCCAAGACCGGGGGGCAGAGGCCAAGGGGAGAAGA AAGGGACCGGAGGGAAAACCAGGAGGCCGGAAGAGAAGAAAA
 A GAA A G G GCCAAAAACGGGGGGGGGGGACCGAAAAGGGGGGA
 G G A A C A G A G A G A G G G G A G A A G G C A G A G G C C G G G A A A G G G C A C
 G G A G A A A A A A C A A G C C GAGGGAGGGGACGAGAGATAAAGGGG G G G A A G G G G G A A A A A A G G G G G G G G G G A A A A G G A A A A C A A G G G GAGGAAAGGAAGAGGAAGAAAGGAAGGAGGAAAACCGAAAA G G G A A C C G G A A G GCCCAGAGGGGCCAGCCAGGGGGAAAAGGCC G G G G A A G G A A C C G G G G A A A GAAAAAAGGCCGGGAAAA GAAAA AAAAGGAAAAGGAGAAAACCAAAAAGGGGACACAGAACAAAA
 A A A A ACAAAGGGACTTGGAATTCCAAAAGGGGAACGCAAGAC
 A A A G G G A A G A G G A G G G G A A GCGGACACCGAAGGGAAA GA GAG G G G G G G G A A A G GAAAAACAACAGGAAAGGGGAGAGGGAAAAAA G G G G G GA G G GACCCAGAAAAGGCAGGGAGGAAGGCCGAGGAC $C \subset C C C C A A G G A A A G A A A G C C C C A G A A G A G A G A A A C G G G A A G G$ A G G G GAAGAACCAGGCCCAAGGGGGAAAAAGGAAGAGGAGGG GAAGAAGAGGGAATGGACGAAAAACCAGAAAAAAGGGGCCAG A A G GAAAAGGGGTAAGACCCAAACAGAAGGAGGGAAAAACCC $G G T T A T A G A A A A G G A A G A A A G G G G A A G G G G C A A A C C G G A A G A$ C C G G G A A A A C G A G G G G A A G G G G A A A A A C G GAACCAAAAAAC C AACGGGAAAGGGGGAAAGAGGGAAGAAGGGCACCGAAAAAAA A A G G A A A A C G A A A A GAGGGGAAGGAGGGGGAACCGAAAGAGG G G G G G A G A C C A A G G G G C C A A TAGGGGAGAAAAAAA G G G G G A A
 G G G G G G G G A G A GAC G G G G A A A GA A A G TA A A A A A A A C G G G G A A G GAAGGAACCACGGGAGGGAAAGGGGGGGGAGAAAAAAGGGG

A ACAAAAGGGGACCGGGGAGAAAAGGGAAGGAAGGACAAAGG G GAGGGGGGGAGAAGAGGGGAAACGGGGAAAAAGCGAAAAAA AAACAACCGAGAGGAAAGAAGGGGAGAAGAGGCCAAGAAAAG G GAGAAAAAAAAAAAAAAAAGAAGGGAAAAACAGAAAAAAAG GGCCAGAAGGAGAAAAAGATAACCAGGGACGAGGACAAGAAA GAGAGAAAAGAAGGAGAGAAGAAGGGGGGACCGGCCGGAGGG A G G G A A C A GAGGCAAAAAGGAGCCAAAAGGAAAGAAAAAAGG $G G A A G G G G A A A A A A G A G A A G A A C A A G A G G G G A G G A A G G A A G G$ G G G GAGAGAACAAAGGAAAGAGGGAGGGGAGGAAAACCACAA GAACAGAAAGACACAGAAAAAACCAAGGGAGAGGGGG
GGGCCAAAAGGAGAGAAAGCCAAAAAAAACCGGAACAGGAC G G G G GACCAAACGGGGAAAGAAAAAAAAGGCAAA GAGAGGCC CA $A G G G G G G G G A G G A G G G G G A A G G G A G G G A A G G G G G G A G A A A$ CAAAGGAAAGAAAAAGATGAAAAGAGCCGGAGGGGGAAA AAA G GAAGGGGGAAACCGGGGAGGGGAAAAAGGGAGACAGAATAG G G GAGGAACCGGAAAAAAGGCCGGCCCCCCAAGGGGGEAAGA
 AA A GAAAAAAAAGGGAAAAAATGGGGGGAGAAAAAAAACAAA $A A C C G A C A G G A G A A G A G G A A G G A G C A G G G G A A C A A A A A A A A G$ G G G A G A A A A A A GA G G GAGGAAGAAAAAAGAAACCAAGGGGCA AACCCCGGGAGGAGAAAAGGAAGGGGACAAGGAAAAGGGAAA GAAAAGAAAAGGAAGAAAAGCCGGAAGAAAAAGGGGAAAAAA G GAAAGAGGGGAAGAGCACCGAGGAAGGACAAACAGACGGGG A A A A A G GACCGAAGGGGGGGTTGACGAAGGCAAAAACAAAGG A GAGAGAAGAAGAGAAAAAAAGGAAGGAAGGAGAAACABAAA G GCAGGAAAGGGGGAGCAGAGGGGGAAAAGCAGGGCGGGGGG $C C C C A A G G G G G G C C G G G G A A G G A A A G A G G A G G A A C C G G C C A G$ ACAGGACCAAGGGGCAAAAGGGAAGAAGAAAGAAAGAATTAA A A GAGGCCGAGGGGCCAGAGGGCCGGCAAGAAAAAGAAACAG A A GAAAGGGGAAGAAGAGGGGGAAGCGGGAGAGGGAAAAGAA G G G G A A A A A A A A A GAA A CAAGGCCCACAAGAGGGAAAAAAA G G G GAGAGGGGACGGAAATAAGAAAAAAAGGGAACAACAGAGA A A A A A A G GAGGGCAGAGGGAAAAGCCAAAAAAAA GGCCCCGG AAAACCGGGGACAAGAAGGAGCCCAAAGCAGGACCCGGAGGG G G GAGGCCAAAGAAGAAGCACAGGGAAGGGAGAGGAGAGGCC
 $C \subset G G G A A A G G G G G A G A G G C C G G G A G A C C C A G G G G A G G G G G G A$ $C C C A G G G G C C C C A A C C G G A A A A A A A G G G G G G A G G G G A A A G G G$ GAGAAAAAGGAGGGAAAGCCAAAAAACCGGAAAAGGGAAAA G CAAAAAAAAAAAACAAGAGAGCGGGAAAAAGGGGGGGAAAAC G G G G G G C C G G G G G G GA $\operatorname{G} G A \operatorname{A} A A A A T A G G A G G G G A G G G A A C C G G$ G GAA $A \operatorname{GAA} A G G A G G A A C G G A G G G G G A G C A A A C C A A G G A A A A A A$ G GAAGGGGGGGGCAGGAAAAAAGGAAGAAAAAGGGGGGAGAT AAGGACAGAAGGGGGGAAGGAAAGAAGGAGCCAAAAGAGGAA A G G G G A GAGAA $A$ A A A $\operatorname{A} A G G A G G A A A G G G A A G G A G G G G A A A A A A$ AAACACGAAAAAAGAAAACCCCAAGGCCGAAGTTAAGAGGGG GGCCAGGAGGAACCAAAAAAAACAAGGAAGGGAAGGGGAAGAG G GACAGGGACAAAAAAAAAAGGAGCCGGGAAGAAGGCAGGGG G G G G G G G G G G C A G G G G A A A A G G C A G G G GAA $A \operatorname{ACA} G G G G A G G A$ G G GAGGAGAGGGGAAAAGCAGGGAGGAACACCGGACAGAGGA GAAAGGGGAAGAGGAAGGCCCCGAGGGAGGAGAAGGGGAACC $A G C A G A A C G G A G G G A A A A C G G G C C G G G G G A G G A G A A G G G G G G$ G GAGCCGGAGGGGAAAAAGGCAAGAGAAAAAAAGAAAGGGGG G GAA $A \operatorname{GAA} C \subset G A A A G A A A G A G G G G G G C C A A G G G G G G G G G G G G$ AAAGAACAAAGGAGGAGGCCAAAAGGGGGGAGAAAAAAAAAA G G G GAA A ACCACAAAAAAGGGGAACCAAACAGAGGAAGAAAA AAGGGGGGAACCAAGACCAAACGGGAGAAGAGAGAAGGAGAA GAGGAAGAAGCAAGAGGGGGGGGGCAGGAATTGAGAGAACAG A GAGAAGGAAGAAGGGACGAAAGGAAGGAGGGGGGGCCAGAC

GAAGAAGAAAGGAAGGGAAAGGGGAGCAGAGACAGGAAAAAG $A G A C G A A G A G G G A A A G G G G A G G G G C C G G G G C C G A A A A A A G B A$ G G G G G A A C G G G GA GAAAAAAGGGGGAAAA AAAG
$11009000-9$ A A G G G G A C G GAA G G G GAAC G G GAAAAAA A G G G C A AAAGAACCCCCCAAGGGGGGCCGGAAGGAAGGCCAAAAGAAA $C \subset A A A A G G G G A A G A G G G A C C G G G G G A A G A C G G G G C C G G A G G G$ G GCCAA C G A A G G G G A A G G A A G G G G G G C C G G A A A A G G G G G G A A CAAAGAAAGGAAGGCCAGAACCGGGGAAAAGAAAGGGAGAAA C CAACCGGCCAAGGAAGAAGAGAAAAGGGGGGCCGGCCBGGA A GAGGAGGAGGGGGGGGGGGAAAAGGGGCCGAAAAAGGAAGG G GAAAAGGGACCAAAAAAAAAGAACCGGGGGGCAAGAAAAGA A A A A G A A A G G A GAAA $A \operatorname{AGGAAAGAAGGAAAGACGGGGGAAGAG}$ AAAAGGAACCGGGGGAAAAAGGAAAGAAAAGACCAAAAAAGG GAGGGAACAGCCACCCGGAGAAGGGGTAGGAAAAGGTTAAAA AAGGGGAAGGAACCGAGGAAAAAACCTTCCAGAAACAGGGCA GAGGCAAGGAGGAAAACAAAAAGAAAGGGGAAAACCGGAAGAA
 A A A A A CAAACAGAAGGCCGGGAGAAAGGAAAAAA GGGGGGGG $G G G A A A A A G G A A C C A A A A G G G G G A G G A C A G A A G G A A A A A A A G$ G GAGGACAGGAAAAGGGGGGAAACAAGGAAAAAAGGGGCAAA GAAGGGGGCACCGCCGGGGGAGGGGGGGGGAAAAAAAAGAAA A A GAGACAAGAAAGGGCCAAGGGGGGGGCCGGTTGGGAAAGG A GAAAACCGGGAAACAAAGAGGAACAAAGGCCGGAAGGAGAA $G C A A G A G G G A A A A C A C G A G G A A A G G A C C A G G G G A A G G G C C A G$ CCAAGGCCGGAAAAAAGGGGAAAGGACCAGAAAACAGAGACA A GAAGGAAAAGGAGGGGAGAGGGGAAGGAAGAGGAAGAAAGA GAGGGAAAGGGGGGACAAGGGGCACCGAAAAACCAGGACGBA GCAAAAAAGGGGGAGGGGGGACGGGGAAGGAAGGAAAAAAAC GAGGAAAGATAAGAAGGGGGAAAACCGAGACAAAACGAGAGG AA $A G G A A G G A A A C C G G G A A A G G A G C C A G A A A A C C A A G G A A A G$ GAAAGGGGAACCGAGAAAGACCGGCCAGAGGAGGAAGGGGGA AGGGGGGGAAAGAGAAACGGCACCCAAGAGAAAAGGAAGGCA AACCCCAACAAAAAGGGAAGGAAGGAACAAAAACGGGGGGGG AAAAAAGGAAAACCGAGGAGGAGGGGAAAGAAGGAGGGGGCA A G G G G A A A A A C C A A GAAAA A A A A A GGGGAAAAGGCCAA GGGG A A G G A A C C G G A A G G G G A A A A C C G G G G G G C CAAAA A GAA G GA A G G G GAA A G G GAA $A \operatorname{A} G \mathrm{G} G A A G G G G G G C C A A G G A A A A A A A A G G C C$ AAAAGGAAAACAAAAAGGGGAAAAAAAAGGAAGGGGGGAGAA A A A A G GAAAAAAAAGGGGAAGGGGCCAAGGAAAAAAAAGGGG
 AACCAAGGAAAAAAGGGGAAGGAAAAGGAAGGGGGAAAAAAG A A A A G G T T A A $\mathcal{A} G G G G G A A A A G G A A G G G G A A G G A A G G C A A A G G$ AAAAAAGGGAAGAGAGAGAAAGGGAGGGAAAAGGAAGGGGAG $A G G G G G A A G G A A A A A A G G A A A A G A G G A A A A G G G G A A A A A A G G$ G G G G G GAA $A \operatorname{GGGGGGAACCGGGGAAAAAAGAGAAAAAAACCAA}$ G G A A A A G G G GCCGGGGCCGGAAAAAAGGAAGGGGAAGGAGAA A A C C C C G G A A G G A A C C A A G G G G A G G G C C G A G G G G A G G G G A A A AAACAGAGGGGGAAGAAGAAAACCAAGGGGCCCCGAGAAAGA AAAAAGATAAGAAGAGCCGGGGAACCAAAAGAGGCCAGAAAA G G G A G GA $\operatorname{G} G \mathrm{G} G \mathrm{G}$ GAAAAAGAGAACACCGGGGAAAAGACCAGAG G G G G G G G G A G A A A A A G G G A A A A A A GGCCGAACGAACCAAAAA A A A A A A A A G GCC C G G G G G G G G G GAA A G A A CA A A A CAA A A G G G A
 G GAAAAAGAACCGGAAGGAAAAGGGGGGAAGGCCAGGGAGGG GGCAAGCCAAAGGAAAAGAAGAAAGAAAAAGGAAAACCAGAA G G G G A A A A A A A ACCAACCGGGGGGCCACAAAAGGCCAAGAGG AAGGGAGAGACCGGCCGGGAGAACCAAAGAAGAACCAAAAAG AAGGAAGGAAAAGGGAAACCAAAGAGAAGGAAAAGAAACCAG GGAACCGAGACCAAAGGACAAAGACCCCGGCCGAGGGGGGAG

GAAAAAAAAAAAGGAAAAAGACAGGAAGGACAGGGGAAGGAG A A G G G GCCCACCCCCGAAGGAGGAAAGGGAAGGAGAAGAAAG G GAAGAAAAAAGAAAGCAGAGCAGCAAGAGAAAAGGCCA AAA A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCGG AA G GAA A G G GAAAAAGAAGGGGCCAAGGAAAAAACCCAAGAG ACGAGGAGGGAAAAAAAAACAGAGGAACAGGGAGGGGGGGGG A A A A A A G G A A A GAA $A \operatorname{GCGTTGGATGAAAAAAAAAAAAACCGG}$ G GAGAGGAGAAGAAAAAAGGGGGGAACCAAGGAAAAAAAGGG AAAGCAAGGAGGAAGGAGACCAGGAAGGGGCCGGAGAGAAAG AAAAGGGGTTAAAAAGCAAAAGGGGGGGAGAGAGAGGGAAGG AAAGGAGGCCGACCGAGAAAAAAGGGCCGGCGAAAAGBAACC G GAATAGAGGGAGAAGACAGAAGAGAGGGAAAAGAAGGACAA G GAA A A G G G G G GAA A G A A A G G G G G G G A A C CAA $A \operatorname{AGGGAAAAAA}$ C CAAAAGGAAAGAGCAAAGACCAAAAAAGGAAA GACGGGGGA A GAGAA $A$ A $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A A A A A A C C A A G A A G G G A G G A G A G A A A$

 A A A A A G G G A A G A A GAGGGCCGGGGGGAAAGCCAACCAAGGGG $G G T T G G G G A A G G G G A A G G A A A A A A G G G G G G A A G G G G G G G G G G$ A G A A A A A G GAA $A \operatorname{G} \operatorname{A} A A G A A A G G A G G A A A A C A G A G G A A G G A G A T$ AGGGAGAAGAAGGGGAGAAGAGAAAAAACCAGGGAAGGAAAA
 G G A A G G G G G G A G A A A A A $\mathcal{A} G G A A G G G G G G G G A A A A A A G G G G C C$ G GAGCCGGGGAAAAAAGGGGAAGGAAGGGGAAGGAAGGAAAA G G A A G G G G G G A A A A G GCCAAC CAA G GAAAA A G G G G G G G C C A A G GAA A G G G G GAAAA A G A A A A G GAAAA A A A GAAAA $A$ A G G G G A A
 G G G G A A A A A A A A G G G G C C A A G G G G G G A A A A G G G G A A G G G G T T
 G G G G G G G G G G G GAA $A \operatorname{G} G A A G G A A A A A A A A G G A A A A G G A A A A G G$ T T A A A A C C G G G GCCTTGGAAGGCCAAGGAAGGGGCCAAAAGBG G G G G G GAAAAAAGGAACCGGAAAAGGGGGGGGGGGGGGAACAC AAACGGGAGGAAAAGAAAGGAAGGAAAACCAATTGGAGAGAA AAAAGGGAGGGGAGGAAAAAAAAAGGGGAAGGAAAAGGGGCC AACCGGCCAAGGGGGGAAAAGGAAGGCCAACCAAAAAAAAGG A A G G G GAAAA $A \operatorname{A} A A A G G T T C C A A G G T T A A A A C A G G G A A A A G A G$ A GAAGAAAAAAGGGAGACAAAAGGAAACAGGATAAAAGAGAG A A A C G G G G G G G G G GAGGGGGCACAGGAGGGAGAGCAAAAAAA G G G G A A A A A A G G C A A GACAA A GAAAAAGGGGGGAAAAAA G G C C CAACAAGGAGGGACCCGGAGGACACACAGAAGAGGAGAAGAA GAACCAAGAGAGGAGGATACGGGGAGAAACCCAACCAGACGG AA G GACCCAACCGGAAAAAAAAGGAACCCCAGGAAGAGCGAA AAAAAGAAAGGACCGGAAGGAAGGGAGAAAAAGGGGGGAAAA G GAA A G G G CAA A A A GAAGAACAAGAAGGGGGGGAGAAAAACC G GCCGAGGCAAGGGAGAGAAAGGGATGAAGGGCCGGAAAAGA G GAA A G A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G A A G G C C A A A C A A B A$ $A C C A A A G G A A G G C C G G G G G G A A C C G G A A A A G G G G A G G G A G A A$ A G G G G A A GAC G GAAAAGGAAGAAGAAAGACAAAAGGCAGACC G G TAGGCAAGGGAAAAAGGGAAAAAGCAAACCAGAGAAAGAG
 A A G G G G G G A GCA $\mathcal{A} A \mathrm{~A} G \mathrm{G}$ GAAGACGGACGGACGGGGAAGGAGAA AA $A G A A G G A G C C G G C C G G C C G A A A G G A A C C G G G A C A A G A A C C$ A A G G A A G G C C G G C A G G G G A A A C A G G G A G C A A C G G G G A G G G G G AGGAAGAGAGAGGGAACCGGGGGAAAGGAAAAAAGGGCAAAA A A A A A GAAA A G A A A G GAGGGGGCCTTGGGGGAAA G GAAGGGG A A AC G A A A A G T A CAAAA GAGAAAACCCCCCGAGAGACCBGAG A A A C A A G G G G A A A A A A G G G G A GC G A GAGCCGGGGGGA GAAC C C C G G A A G A G GCC C A A A G G G A G A A A A A G GAACCAAAAAAA A G A TAGAAGGAGAGGAGGAAGGGAAAGGGAACCGGCAACGAGGAG

GAAAAGGGGAAGAAGGGGCACCGGGGAAGGAAAGAGGCAAAG
 G GCCCAGGGGGGGGAAAAAGGACCGGGGAACCCCAGG
ATTGGAAAAAAAGAAAAAAAAGAAAAAGGGGAAGGAAGAGG $A C \subset A G G G G C G A C G G G G G G G A A G G G G G A A G G A A A A C C G G A A C C$ G G A A A G G G A A G G G A A A C C G G G G C C A GAAA A A GA A A A GA G G A G A GAGAA $A \operatorname{A} A G \operatorname{A} C A G G A C A G A G A A G A C G A G A A G A A G G A C G G G G$ G G G GCGGGGGAAAAAAGGGGCCGGCCGGAACCGGGGGCAAA A G A G G G G A G A G G A A A A $\mathcal{A} G G G A A G G G G A A G A G A C A G G A C A A A G$ $C \subset A G G A G G G A A G A A G A A G G G G A C A G G G G G G G G G G G G G G G G G G$ G GCCAAAGGGGAACTTAAAAATAGGAATAAAAGGAAAACAGG A A A G G G A G A A A G G G G A G G A G A A A G A A $C$ A A G G G G G G C C G G A G G G A A A A G G G G A GCGCCCCGGGAAGGAAAGGGAGGGGGACAAAA G A A G G G G G A C C G A G G G A A G C C G G G G A A G G G G A A C C A A G G C A G G A A G A A A G A A A G G G G G G GAAA $A \operatorname{A} G A A A A A A A A G G A A A A G G C C G G$ G GCCGGAGGGAGAAAAGAGGGGAGAAAAGAGGAGGGGAGAAA A A A A GAGGGGGAGGCCAGCCAGAGACGGAGACAGAGGAGGAA
 AAGGCCTTACACGAAAAGAAGGGGGAACAAAAGGATAAGGGG GAGGAGAAAAAAAGGAGAGAGGAAAGCAGAGGAGGAAAAGAA GAAAGAGGAAAGAAAGAGCCGGGACCGAAGGAAAAAGAAC GA GACCCCAAGAAAGACAAAAGGGAAGGGGAGAGGGGGGGAGAA G GAGGGGGAGCCGGGGGGAAGGGGGGACGGGAGAAAAGAAGA GAGGAAAAAAGGGGAAAAAAGGAAAAAGGAAAAAGAAAAAAG GA $\operatorname{G} G A A A G A A A A A A G A A G G G G C A A A A A A G G G G A A C C A A A A G G$ A A G G G GAAAAGGCCAAAAGGGGAAGGAACCAAGGGGAACCGG G G G GCCGGGGTTAAGGAAAAAAGGAAGGGGAAGGGGAAAAGG AAAAAAGGCCAAGGCCAAGGAAAAAAAAGGAAAACCAAAAAA A A G G G GAAAAGGGGAAGGAAGGAAAAGGAAGGAAGAAAAAGG A A A A G GCCGGGGGGGGGGGGAAGGAACCGGGGCCGGGAAAGA G G A A A A G G A A G G G G T T G G G G A A A A A A G G A A G G G G G G C C G G C C $C \subset A A C C A A A A G G A A A A A A C C A A G G A A G G A A G G G G G G G G G G G G$ A A A A G GAA A G A A G GAAAAGGGGGGGGAAGGAAGGAAAAAAAA G GAAGGCCAAGGCCCCGGGGGGGGAAAAGGAAAAAAGGAACC A A A A A A G G G G A A A A A A A A G G A A G G G G A A A A A A A A A A A A G G C C A A G G G G G G A A G G A A A A G G G G A A G G G GCC G G A A GA G GA G A G A G AAGGGGAACCTTGGCCCCGGAACCAAAAGAAAAGGAAATTGG G GAA $A \operatorname{G} G \mathrm{G} A A \mathrm{~A} G A A \operatorname{A} A A G G G A G G G A A A A G G G G C C G G G G G G G G$ A A A A A C A G A GAGAGGGGAAGGAGGGGAAGGAAAAGAAAGGGG G G G G G G G G A G G G G G A G T T A A A G G A G G G G A A G G A A A A C C A A A A AAGAGGAAAAAAAAGAGGGGACGCGCGGAAAGGACAGGAAAG CA $\mathrm{A} G \mathrm{G}$ G A A A T A GAGAACCGGAAGGCCCCGAGAGGACAAAAGG G G G GAACAAAAGGAGACCGGAAAGGAGATAAAAAAAGGCAAA C C G GAAACGACCGAAAGGACAAGGAGCCAAGGGGGACAGAAA A A G GAAAAAAGGCCGAAAAAGGAGCACCCCGGCCCCCCGGAA A A G A A A G A G G T T A A G G G GCCGGCAAAGGGAAAG GAAA GAG G G C C A A A A G A A G G A G G A G T T G G G A GAGGCCAAGGA GAA GA G G A A GAGGGAGGAAGAAAGGGAAGGGAGCCGGGGAAAAAGAGAGAA AAGGAAAAGGAGAGAAAACCACAACAAGCGAAAAAAAAAGAA G G A A G A A A A A A A A A G G G G A A A A A A GGGAGACAAA GAAAAAAA GAA $A$ A A $\operatorname{A} A \mathrm{~A} A A A A G A G G G G G G A G G A A G G A C G A G G G G G A A A G A$ $A C G G A A G G G A C C C C G G G G A A A G G A A A A A A A G G G G C C A A G G A A$ A A A A T T G GCCGGGGAAAAGAAGGAGAAACGAGAAAAGAAACA AAAGCCACGGAAGGGGCCAGGAAGAAGGAAAAGGGGAAAAAG AA G GACAAGGAAAAGGCAAAAGGACAAAAAGGAAGGGAAAGG GAACAAAGGGAGACAAGGGGAAGAAGACGAAGACGAGAAAAA G G G A C C T A $\mathcal{A} G G G C C A G G G G G G G A A A G G G G G G A A G A A A A G G G G$
 AAAAGAGAAGAAGGAGGGAAGACAGAAGAAAGAAAGAAGGAG

G G G G G G A G G A G G G A G G A A G G G G C A G GAAGAAAGGGGCAAAAA G G A A A G G A A G G A GAGGAAAAGGAGTTAAGGACGAGAGA GAAA $A G A C A A G G G A C C A A G G A A A A A A G G G G C C G G G G C C T T C C A G G A$ A G G GAACAGAGGCCAGAGCAAAGGAAAGGAAAGGAAAAAAAA G G G GCAAGAGCAGGAACCGGAAAACCAAGAAGAAGGAAAGGG G GACAAGGAAGGGGACAGGGAAGGGGGGAAAAGGAGGGAACA A A G G G G G G A A A A GACAGAGGGACAACGAAGGAGGGGAAAGAC CAACGAGGGGAGAGGGAGCAGGGGGGAAGGAAGGGGGGAGAA GACCAAGAACAAACAAGAGGAAGGAGAAAACCGGAAAAAGAA AAGGAAAAAGACGGAGGGAGGGTAAGAAAAGGAACCGAGGAA AAC GAGAAGGAGAAGGGAAGGGAAGGCCAAAAAAAGAAAACC A G A A A A GAGACACAAACCGGGGAAGGTTAACCACAAAGAAAC GAAAGGAAAAGGAAAAAATAAAAAGGAAAGGGAAAAAAAGAA G GAA $A \operatorname{G} G \mathrm{G} C \subset A G C A C C G G G G G G A A A G G A G G G G A G A A A G G G G G$ A GAGGGGAGGAAGGAAGGCAAGGAAAAGGGGGAAAAGAAAGG A A GAGGGGGGGGGGAAGGGAAGAGAGAGAAGGGAAAGAAGAG
 G G A A A T G G A G G GAA $A \operatorname{GAA} A \mathrm{~A} A A A G A G A A G C C A A A A G G G G C C A A$ AAAGCAACGGAAAAATGAAAGAATAAAAGGAAGAGGGGAA G G $A$ A GAA A A G G A G A A G G G G T T C CA GAGACA GTACCGGGAAA G GA A G GAAGGCAAAGGAACCAAAAAACCAAGAGAACGAGGGGGGAG G G GACCAGCCAACAGGGGAAAAGAAAAAGGAGGGGGAGACCG $A G A G C G G A G A G G G G A C A A G G G G A G G G G G A A C C A A G G G G A A G G$ G G A A A G G G A A A GAAA A A A G GAACCAAGGGGAAAAA GATAC G G C C GACCGGAAAAAAAAGGGGGAGGGGGAAACAAAACGGGGGG G GAA A G G G G G G G C A A A G GAA TAAAGGAAGGGGAACC GAATAA ACGGCCGAGGAAAAGAAGAAGGAAAAGGAAAAGGAAAAGGAA G GCCAAAGGAGGAGGGGGAAGGAAGAACAAGGGGCACAGGAG G G G A A C A G GA G GAAAAAAAAAGGAAAAGGGGGGGGGAGAAGAG A G G G G GA G GAA A A A A A A G GAA A A GCCGGACAAGGGGCCAGAT A G A A G G C C A G G G G G C C G G A C C A G A A G C A C A C C C C A A A G T A T GAAAAAGGCAGACAAGGAAGGGAGCACAGAGAAAGGGGGGGG A GAGAA $A \operatorname{G} G A A G G A G A A A C C G G C A G G G A A G A A A G A A A G A A A A$ G G G G A A A A CAGGCCGACCAAGGGGGGAAAAGGAGGGGGAGAAA G G G GCCAAAGAAGGAAAACAGGCCGGGGGGGGAAAAGGAGAA A A A A C A A G A G G G A GCAAAAGAAAACCAACCGGTTGGAAGGCA G GAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAGAAGGAGAA AGGAAGGACCGGAGGAAGGAGAACCCACGGCATTGGGAGAAA GAAGCAGAAGCAAGAGAACCGGGGGGAGAGAGCCGGGGAGAA AACCAAGGAAGGAGAGAAAGCCCAGGGAGAAGAGAGGACAAA AAAGAGACAAAAAGCACCGAAACCGGGGCCGGCCCAGACAAG A A C C G G A G G G A A A A C C G G A A C C G G G G G G A G G G G G G A G G G A G G C G GAA $A \operatorname{GG} A A C G G G C C G G A A A A C C G G T A G A A C A G C C G G G A G A$ G G A A G A A A G G G G G G G G G G A A A A A G CAAA A A A A GAAAAA A G G G CAAAGAAGACAGAAGGGGGAAAGGGGAAGGCCGGGGGAAAAA A A G GCCAAAAGAGGACAAAGCCAGGACGAGGGGGAGAAAGAA G GAGAGAGCCGGGGAAAAAAAAGAGACCAAAAGGGGCCAGAG GAGGAAAAATGAAAAACCGGAAGAAAGAGAGGCAAAGAGAAA AA GAAAACCAGACAAAAGGAAGGAAAGGAACCCC GAAGAACAA A GCCAAAGAACAAAAAAAAGCCGGAAAAAAGGCCAAAAGGAC A G A A A A A A G GCCGGCCAAAAGGCCGGAAGGAGAA GAA GAGAA A GAGGAAGCATAAGAGGAAAGACAAAGACCAAGGCAGGCCAB $G G C C A G A G G G A G A G A A G G A C A G G G A A A G G A G C G A A A A A A C G A$ AAAAGAGAAGGGGGCCGGAAAACAGGAAGGGGAATTGGAAAA $C \subset C \subset G G C \subset A A G G G G G A A C C A G A G G A A A A A G G A A A A A A A A A G G$ G G A G A T A A A A A A A G G A A A G G G G G A G A A G G G A A G G C C A G G G G A G G G G G GAG GAACAGGAACAGACGGTAGGGAGGCCGGAAGGGA AC G G G A A A A G A G G G G GAGGAAAAGACAGAGAAAGGAAAAAAA AAAAGGGAATCAGAAAAAAAAGAGGGAAAACCATAAGAACBG

A A A A A A GAAAGAAGAGACCCAGATAGAAAAAAAAGGAGGCGG G G G A G A G G A G C G C C A G G A A A G G G G G G G A A A G GAAC CAA A A T T

GAAGGAAGACCGGAGGGAAGGGGGGGGGAACAGAGAACAAA A GCCAAAGCCGACCAAGGGGAAGGGGAACCCAGGGGGGGGGG G G GAA A GAAACCAGGGAAGGAAAAGGAAAATAGGAAGAAAGG G GACCAGGAGAAAAAACCGAAAAAAAAAAACCGGAAAATTGG G G G GAAGGCAAAGGACAACAACAAGGGGAAGGAAGACCAATT
 G G GAGAGGGAAAAGCAGGGAGAAAGGGGAGGGGGGAAAAAGA A GCCCAAGGGGGAAAACCGGGGCCAAAAGGGGAAGGGGAGAA AAAAGGAAAAGGAAGGCAAGGAAGACGGAGAGATCAAGAAAG G G G G C G A A G G G A G G GAAA $A \operatorname{AGC} C A A G G G G G G G G A A G A G A G G A A$ G G G G GCGGCAAGAAGGGGGGCAAAGGGGGGAAGAGGGAAGA$G$ G GCGGACAGGGGCAAAGGAGAAGAAACCAGGAAAAGAACCGG GAGGAGCCGGGGCCAGGGCAAAGGGGAAGGGGAAAGAAAAAA G G GAGGAACAAGGGCCGGGGCAAGGGAAGGGGGGAAAACCCC A A A G A GAA A G G GCCAAGGTAGAAGGGAATAAGATCCGAAAGG A G G GAAAGCCGGAAGGGGAAAAGGGAAAAGAGGAAAAGGGCC A A G G A A A G T A G A G G A G G G G G G G A A G G C C A A GAA A T TA G G G A A GAGGAAAGTAGGAGGGAAGGAAGGGGGGGGGGACTTGGGGGG G GAGAGAAGGAAGAACAGAGCGCCGGAACCGGGAAAGAAAAA AA GAA $A$ A C GAGAAAAAGAGAAAGGAATTCCAAGGAAC GAAAC A G A G A G G A A C A A GAGGGGCCAAGGGAGGAGAAGAAAGAAACC T T G A $\mathcal{T} G A A G G A G G G G G G G G G G G G G A A G G A A C C A A A A G G A A G A$ GACCCCAAAAGGGGAAAAAGAGAACAAACAAAGGGACAAAGAA ACAAGGAAAAGGAGGACCAAGGAAAGGGAGAGGA GAAGGGGA A A A A A A G G A G A A G G GAACGAGGGACCGGAGGGCCAGACAAGG AAGGGGCCAGACGACCAAGAAAAGACAGGGGGGGAACAAAGB C C CAA G G CAAAAGGAAGAGGACAAGAGGAAAACCGGGGAGAA A A GAA $A \operatorname{A} A G G A A G G G A A A G G A A G G G G G A A A G G G G A G G G A G G G$ GAGGAAGGCCAACCGGGGGGGGAAAAACGAAGGGGAGAGGGG AAAGAAAGAGAACAGGAAGAAAAGAGAGAAGAACCCCCGGAA
 $A C G G G G G G G A G A A G G G G A A A A G G A G A G G G G C A G A B A G G G G G G$ $G G C C A A G G A A G G G G A G A A G A G G G G A G A A G G G A A A G G A A A A A A$ A A G G G G G A A A A A GAGAACACAAGGGGGAGGGGGGAAAAAGCC A A G G G GAA A G G GAAGAAAGGAGGGGAGGAGAGCAAAAGAA AA C CAA $A$ A A A $A \operatorname{A} G A G G C C G G A A A A A G A G C C G G G G A A A A A G A A G G$ GAAACCAGGGGGGAAAAAGGAGACAAGAGGACBAGAA GAA GA GAGAGAGGCCGGAGCGGGAGAGAAGGGGCCGGAAGGGGGAGG A GAGAGGGGGAAGGAGGGCCAAAAGAAAAAAAGGAAAACCBA AAGGAAAGAAGGCGAACCACGGAAAAGGAAAGACGAGACCAA G GAGGAACGGACAGGGAAAAGGACGGAAGGACAGAAGAAABA C C G G G G A G A G G A G G A A G G T T G G A A A A G GAA A A A GCC GAA A A A AAGGGGCCCCAGGAAAAAAAAAAAGGCCAGGGCCBAAAAAGG

 A GAGGGAGGGAGACGGAGAGGGGGAAGGCCAGATGGGACCAA A A A A A A G G A A A A G G GAA A A A A GAAGGAGGAAAAACAAAAA GA A G G G G G G G A A C A A A A G A A G G G G A A G G G G G G A A A A C C A G C C G C A A A A A A A G G G G A A G C A G GAAGGGAAAAAAAGGAGGGGACC G G GAAAAGGGGAGAGGCCAAAAGGAAGAGAAACAGACAGAAAAG GAAGAAGGAGGGGGAGGGAGGAGGGGGGCCGGGGGGGGCCAA CACCAAGGAAGGAAAAGGGAAAGGAACCAAGGACAAGAAABA $A C G A A G A A A A G A G G G G A A A A A G G G G G G A G A C G A A A A A A A G C B$ A A A A C C A G A C G A G G C C G GCC G G G G G G A A G G G G G A A A G G G G G G A A G G A A C C A A A A G G A A A A GACCAA GAAAAGGGAAAAGGAGCC AA GAAAGAGAGAAGAAGGAGAGAAAAGGAAGAAGGGGAAACA

G G G GCCAGGAAAAAAAGGAGAAAGAACAGGAAGGAGGGAAGA G G G G A A A A A GAAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} A A G G A A A G C A A G G A A A G G A G G G A C$ GGAGGGACAGCAAGAAACAAAAGGAACCGAAAAAAGGGGGAA G GAGGGAAAACCACGGAAGGGGGGAAAAAACCTTAAGGCAAA G G G G G GACAA $A \operatorname{A} G A A G A A A A G G A G G G A G G G G A A G A A G A G A A G A$ GAGAGGGGAAGGAACAAGAGAAGGGGGGAGGGGGGAAAAAGG AAAAGGGGGGGAAACCAAAAGGAACCGAGAAACCGGGAAAGG AAAAAAAAGGAAAAGAAGAGGAACAAAAAAGGAAGAAAGAAA A GAGAGGAAGAAGGGAAAAAGAAAGGCAGGGGAAAAAAGAAA G GAGATAGAAAAGAAGGAAAAGGGGGGATTGACCAACCGCCC
 ACAAAAGGGGAAGGAAAAAGAGGAAGAGAGAGAGGAAAAA G G $A$ GAAAGAAACCGGGAACGGAAAACCAAAAAGACACGCGACCAG A GAAAAAAAAGAGGGGCCGAACAAAGAAGGGAGAAGGAGAAA A GACAGAAAGGGGAGCGGAGAAAAAGAAAAGAAGAAAAAGAA
 G G G G G A G G G G A A A A A A A A A A G GAA A G GAAA A GAAC A A A G G G G A G G G A A A A G G G GACAAAAAAAAAAAAAAAAGGAAAAG GAAAA A A A A A A A A G G A A A GAGGGAAAGAAAGGAAAGGAGACGA GAAA G G A A G A G G G A G A G G G A A G G G G G A A G G G G G G G A A A A G G G A A A A AAGGGAAGGCAGAGGGAAGAAAAAGGAAGGGGAAGGCCAAGA A A G G G G G G G G G G G G A G A G G A G A A A G G G G A C G G A G G G G G G G G G GACCAAGAAGCAGCAGGGACGGCCGAAGAAGGGGGGAAAAAA G G G GCCAACCCCAGAAGGGGAAGGAAAAAACACCAAGGGGGG A A A A T T G G A A G GAA A GAGGAAGAGGGAAGGGGGGACCAAA G G

 G A A G G G A A G G A G G G G G G G G G T T A A G G A A A A C C A A G A A A G G G G GAAGGGGAAGGAGGAAGACAAGGAAAAGAAAGAAAGAAACAT AATTGGCAAGAAAAAAAGAAGAAAAAGGAGGGGGAGAGAAAA A A G G G G G G G G A G A A C C A A G A A G C A G G G G C C A G A A C C G G G G T T AAAGGGAAAACCAAGACCAGGGGGAAAAAAAGAAAGGAGACA A GAAA AAAAGAAAAGGCCCCAACCAAAAGGAAGGAAAAGGAA
 GAAAAGGGAGAAGGGGCAAGGAAGACGGGGGGGAAAACAACC A G A G A G A G C A G G A A A A G G G G G G G G A A G G G A G A T T G G G G G G G A G GAAAAAAGGGGAAGAGGAAAAAGAAAAAGGGCCCCAACAAA AA $A G A G A A A G G G A G G A A G A A A A G A A A A A G G A A C C G G G A G A G C$ C CAACCAAGGAAAAAAAAAAGGAAAACCGGGGAGAAGAAGAC G GAC $\mathrm{C} G \mathrm{G}$ CAAAACGGGGGGAAAAGGGAAAGAGGGGAAAAGGAG GAGGGGAAAGAAAGAGAGAAACGGGGGGGACAAGAAGGCCGG A A A GAAGGAAGGCCGGAAAAAAAGATGAAAAAAACCGGAGAA C C G G G GAAAAAAAAGGCCGGAAGGAAGGAAGGGGGGAAAACC G GAACCGGGAGGGGCGAGAAAGAAAGGGCCAAAAGGAAAAGG G G G G G A G G GAAA $A \operatorname{AGGAA} \operatorname{A} A A A G G A A G G A A A G A G G G A A G G A G G G$ GACCGGAAGGGGAAGAGGAAAAAGAAAAGGAGGGAGCAAGAG A A A G G A G G A A A A G A A A G G A G G G G G GAGGAAAC CAA A A A A G G G G
 T T G GAAAACAGACAACAATACCAAGAGGAGGAGACAGGGGGA C C A A A G G G A A G G G A G A T T A C C C A A A A G G G G G G G A G G G G A G G A C C G GAACCACAAACGGAGGACCAAGGGAAGCAGGGGGGAGGA
 AACAAAGGCCAAAAAAGGAGAGAAAAAAAGCGGGGAGAAGAA GAAACCAAAGCCGACAAAGGAGCCAGGGACGAAGCCGGAGAA $A \subset A A G G G G A A G G C A G A A A A A A A A A G G G A G A G G A A A A G G A C G G$ GAAACGAGGGGGAAAAAACCGGGGGGGGAAAATTAGGAAAGG AAAAGGAAAAAAAAAAAAGGAACCAAAAGGAAAAGGCAAAGG $G G G G A A G G A A A A G G A A G A A G G G C C T T A A G A A A A A A G G A G A G G$ AAAAAAAAAAGGAACCCCGAGGAACCAAAGAAGGAGGGGGGG

A A A A A A G G GA GAGAGAAGGAGAGACCAGCAAGCGGAGGGGGG G GAAACGAAAGGGGCCGGGGCCGAGGAAGGCCCCGAGAAAAG GAGGGGTAACGGTTCCGGCCAAGGGGGGAAGAAGGGA
A GAAGAGAAGATACCGGGGGGAGGAGGAGAAAGGGAGCAAG G GAAGGAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAACAGA GAGAGGAAGGAGGACAAAGAGAAGAGGGGACCGAAGGAAGAG
 AAAGAATTAAAAGAAGGGGGAAGAAAAGCCGGGGGGCCAGAA A A A A A A G G G G A A G G G G G G G G G G A C G A G G G G G G A A G G G G C C G G AATTGGGAAGAGAAAAAAAAAAAAGGGGGGAGACAAAGCCGA A G G GCCGGGGAACAGGGGGAAAGGAAGGACACAAGGGAAAAA

 $A G G G A G G G G G A G A G G G G A A A A A G G A A G G A G A G A A A G A A G G G G$ G GAA $A \operatorname{GAA} A A G G A A G G A A A G G A G A G G A A G G G A A A G G A C A G A G$ AAGGGACCGGGAAGCCAAAAGGAAAAAGGGAGAGCAAGGGGG C C G G A A G G G G A A A A A A G GAGAA A A G G G G G A A A A A G A GA GA G A ACACAAGGAGAATTGGGGGGAACCAAAGGAGGGGGGGGAGAC
 G G A A G G G A G G C A A A C C G G G A A A G G G G G G G G G G A A A G G A A A A G GGCCCCAGAACAGGAAGGGAAAGGCCAAGGAACCGGAAGGGG A GAGGGAAGAGAGGGGAAAAAACCAAGGGGAAGGAGAAAAAG A A G G A A G G GACCA $\mathcal{A} A A T T A A A A G G G G G G C C G G A A G G A A G G G G$ A A A G G A A A C C C C A A G G A A G G A A G G G G G G A A G G A G C C A A G G G G ACACGGGAGACCGGAAAAGGCCGGAAAAAAGGGGAAAACCCC AA G GAAAAAAAACCAGAAGAAGGGAAACAAAAGGAGGGGGGG CACACCAGAAAAGAGGGAAGAGGGAAGGCCAAAAGGAAACGG GAAGAAGGACCCAGAGAGAAAGGAGGAGGAGGCAAGAAAGAG G G G G A A A G A C G GA GAGGGAACCAACCGGCCAAGGGGGGAC G G A G G G A A A A C C G G A A G G A C G G G G G G G G A A A A G G G G C C G G A GA A G G A G A A A G G G G G A C A G G A G G A A A C A G G G G G G G A G G A G G G G G G AAGGGGAAGGAAGGAAAAAAAAGAAAAAAAAACCGGAAGGGG G G G GAAACAAAAGAACGAAAGAAACCGGAAAAAAAGGAAAGG C C A A G A A A A G A A C C A A G GA GA G G G A A A A G G G G G GA GA G G G A G

 G G G G GCGAAGGGAAGGCCAGCCGGAGGGCAGGAAACCCGGGG A G G G G GACAGAAGGAAAGGGAAGGAAAAGAAGAAA GAA GAAA
 G GCAAAAGGGAAGGAAAAGGGGGGAAAGGGAGAA GAAC GA GAC G GAGGGAAAAGGGGAGAACCAAGGCCAAAAGAGGAGAACAAA GAACGGGGAGGGAAAGAGCAGAAAGAAAAGAGAAGGCC GAT T $A C A G A G A A G G G G G A G A G G G A A A A G A G A A G G G A A A C C G G A G G G$ G G G GCACCAAAAAAAAAAGGGAAGCCGGCCAGAAAAGGTACC A GAAAAGGAAAGGAAACCGGAGAAAAGGACCCBAGCGAGGCC A A A A G GCCCA G G A G A G A GAGAGGGGGCCGCAAAAAAGGGGGG CCGGAAAAAAGGAAGAAAGAAGGGCCAAGGGGAAGAAAAGGA
 AAAGCAGACCGAAACCAAAAACAAAAAAGGGGGGAGGGAAGA G GAGGGCACCAAAAGGAAAAGAGAAACAAGGGAGAGAGAACA G GCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAAAAAA A A G GAAAAGGCGGGCACCAGAAGGAGGGAAGGGGGGCAAAAA AC G A G G G A G A C C A C G A C C C C A A A A G A A G A A A A C C A A G G G A A A GAAAAAAAGGGGAGGGACCCCCAAGAGGAGGGAGAAAAAAAG A GAA A G G G A GAGAGGAGAATGGGGGGCAAAAAGAAGAAAACC GA G G A A G G A A G G A A T T A A A A A A G G A A A A C CA G G GCCACAAA A
 $G G A A A A A A G G A A A G A G A A G G G G G G G G G G C C A G A A G A A A G A A A$ $G G G G G G G G G G A G A A A G G G G G A A A A C C G G G G A C A G A A A C A A A A$
$C \subset A A G G A C C C G G G G A A A C G A G G G G A G G A A G G C G G G G A A G G A G$ GAGGAAGGAGGGGCAGGGGGAAGGGGGACCAAGGAGCCGGGG G GCAAACAAAGGGGCCAAGGGGAATAAAACAGCACAABAAGG GAAAAGGGCAAGGACACACCAAAAAAGGAAGGGGAAAACAAA C CAAAAAAGGAAAAGGAAGGGGAAAAGGAGAGAAAACCAAAA A A G G A C A G A A A A A CAGGGCCAAAGGAAGACGGAAAAAAAAAG GAGGCCGGAACCGGGGAAAACCGGGGGGGCGGAAAACCAAGA CA $\operatorname{G} A A A G G G G G G G G A A G G A A G A G G A A G G A A A A A G A T C C A A A A$ G G G GCCCACCAGAAGGAAGGAAGGAGAAAAGGGGAAGGGAAC G G GAAAAGAAAAGAGGCAACAGCCAGGGGGATCAAAAAAGCC A G GAGGGGCCCCAAAACCGGTAGGGAGAACAAAAAGACAGAG G A A A A A A C A G G A A A A G A G G A A A A A G GAGCCGGAGGGGGAC G G A A A A A A A A $\mathcal{A} G G G G G G G G G A A A A A A A A G G G A A G G G A G G G A A A A$ G G G G A A G GCCAAAAACCAAACAACCGCGGCCAAGGAAAAGAAG G GAAAAGGGACCACAAAGAAGGGGAAAAAAAGAAAAAAGGGG AAAATTAAAACCGGGGAAAACCGGGGGAAGAGCCCCGGAAAA A A A A G G A A A A G G G G GAAAA A G GACGGGGAACCAGAAACAAAG GAAGAGGAAGGGAGCGAAAAGAAGCAGAGGAGGGAAGGAGAA AACCAAAAGACAGAAAGGCAGGAAGAAACCAGAAGAAGAAAA CA G G C C A A C C G GAA A G G G G GAGGGGAAC GAAACA GA GAATA G A GAAGAGGAGGGAAGAAAAAGAGGAAAAGGGAGAGAGACCAG G GAGAATTGGGGAAAGGGACGACCCCGGAGCCGGAAGGTAGG A G G A A A A A G G G G G G G G A G A A A A G G G G G G G G A A G G A A A A G G A A G G G G G A C C A A G G G A A A A A A A G GAGCGGAGAAAA AAAGGAGAA AAAAGGAAGATAAGAACCAAGAAACCAAGGGGAAAACCAAAG
 G GAGAAGGAGGAAAAAAGGGAGAAGGAACCAGAAGGATAAGG G G A A A A A G G G G G G G A A A GAGAACCCAACAGAAGGAGACCC G G G G G G G G A A G A A C G G A G G G G G A A G G G G C C A G G G G A A G G G G A A A A A A A A A A A G G G A G GAGGGGGGGAAGGAGCAAAAAAAGACA G $A \operatorname{A} A$ G GCAG G G G A A G G A A A A A GAGGGAAGGGACAGAAAG GAAAC A A G G GAGAT TAAGGGAGGAAGGGACAGGGGCAAGGGGGTTGAAA TAAGGGAGAGAACCAAAAGGCAGAGGGAAAAAGGGGAAACBG G G G G A G G G G A G A G G A A G G G A A A C C A A C C A A A A A A A A A A C C C C C C A G A A G G G G A A G G G G T T A A A A A A A A G G G GCC G GA G A A G G A A G GAACGAAGGGGGGGGAACCGGAAAAGGAGACGAAGAAGGAA A A GAAAAAAGAACCAAGGAAGGCAAGAGAAAAGAGGGGAAAG G GAGGCAGGAAACCAAGGCGAGGAGGAACCAGGGGAGGGAGG
 AAAAGGGACCGGACCCAGAGGGGAAGAACCACCAAGGAACAG A GAGAACCAAAAGGAAAAAGAAGGGGAGCAGAGGGAAAGGGG
 AAGAGGCAGAAGAGGGAACGAGGGGGGAGGAAAAAGAGAAGG A A G G A A A A A A C C A A A A GAG G G G G G C C G G A A G G A G G A G G G G G G G G G G G G A A GAAAAACCGGGGGAGAGAGAGGGGGGAAAAAGAA G GAA A GACAAGGGGAACAAAGGAGGGAAAGGAAAAAGAAAAA G G G G G GCCGGAAGGAAGGAGGAAGGGGGGGCAGA GAGAACAG GAAAAGAAAACCAAAGAAGAGGTTAGGGGGGGAAGGCCAGAG GAAAAGCCGGAAAACCCCGGAACCGGGGAAGAGGGGCAAGAA A A A G A C A G GACCAGAGGGGAGGAAACAAAAGGGAGAAAAAGA A A A A CA A G GAGGGGCCAAGGGGGGGGAAAAAAGGCCGAAACC ATAGGGCCGAAAAAAGGCGGACAAAAGGCCAAAACCGAGGCC G G G G A G G A C C G GAA $A \operatorname{G} \operatorname{GA} A G G A A A G A A A A C C G A G G A C A A G G G A$ AGAGACAGGGGGGGGGGGAGAACAAAACAAGGGGAGAAGGAA ACGAAGAACAGGAGAAGGAAAAGGAAAGGGCAAAAAGAGAAAA CCGGGGAAGGAAAACCGGAAGGGAAGAAGGAAGAGAAAAGAA A A A G A A G G G G G G G A A A A A A A A A G GAAAA A A A G A A A A C C G GAA A A G G A A A A A A A A A G G GAAAAGGCCAAAACAAAAAA GA G A A A G G $C C G G A A G A A C A A G G A A G A A G G A A A A G A G G A T T G G G G A A A A C A$

GACCGAGAAAGGAAAAAAAAAAGACCGAAGAGGAAGAAAAGA GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAGA AAACGAACCACAAAGGAGACCCAAAGAAAGAACCGGA
G GAA A A G G GCCAAAAAAAAGGGGAAAGAGGGGACAGGGAAG G G GAGGGGAGAAGGGGCCGGCCGGAAGGAAAAGGAAAAAAGA $C \subset C A A A A A G G G G G G G G A A C A G G A G C C G G G G A A G G A A A G A A G G$ GAGAGGAAGAGCAGCAAAAGGGACCAAGGGAAAGGAAACAAC
 C C A GCGCC G G G G A A A A A A G G G G C C G G G G G G G G G G C C G G A A G G GAGGGGAAAGCAAAAAGAGGGCAGGACCGGGGAAGGAACACC GACCGAGGCCGAAAAAGAGGGGGGAAGGAGAAGGAAGACAAC ACAAGAAAGCGGCCAGGGCCGGGAAAGAAACCAAAGGAGGAG AAGGCCGAGACGAAGGAAGAAAGGAAGGGGGAGAGGAGAAAA
 GACCAGGGAGGACAAGGAGGGAGAAGAGACATAACCAAAACC GAA A A A G GAGGGAAAAGGAAAAGAAAGGAAGGAAGGAAAGAA G GAGGGACGGAAAAGAAAGGGAGAAGGGGGGGGGAGAAAAAA
 C C C CAA A GAAAAGGGGGGAAACGGAGAACCAAAAAAGAAGAA
 G GAGGAAGGAGGAAGGGAAGGGAAGGGAGGGGAAAGAAGAAA G G T T A A GAAAAAGGCAAAAAAAAAAGAGGAGAAA GGGAAAGG AAAGGGAAAGAGAAGGGAGACCGGAAGAAGGAGAAGGGAGAG A A G G A G G G A A G G G G A A A A T T G G A A A A C C G GAA A A A A CA GA G A GAGGAGACAGAAAAAGGGACGACGAAAAAGCCGGACGAAGAAA G GA $A$ A A A G G G G A C C A A G G G G G G G G G G G A A A C C G A G G G G A G A A G G G G G A G G G G G G G A G G G G A A A C G G G G G G G G G G G G G G G A G G G A G G G G A A G G G G G GACAGACGGGAAGCCGGAACAAGGGAGCC GA G G A G A G G G A A G G A G A G G G A G G A A G G G A A A G C C A A G G G G G G G G A G G GAGAAGGGGGGAAAAGAGGGGAGAGGACAGAGACAAAAG G G A A A G T T A A A A A C A G GAGAAAGGGGGGCCGAAGBAAAAAAA G G G GAACAAGGGAACACAGAAAAAAAGGAACAAAGCGGAGCAA C C G GCCGGGGAAAAGGGGGGAAGGAAGGGGGGCCCCAAAACC $A C A G A G A G G G A G G A G G A A G G G A A A A A A A G G A A A G A C G G C C A C$ A G G A C C G G G G A C A A C G A G G G T T A A C CAGGGCAG GAGGGACAA G G A G A A A G A G G G G A C A G G G G A G G G G G G G A A A A A A C C G G G G A G A A G GCCGAGGGAGGCCGGGAAGAGACGGCAGAAAGGAGAAAA $C C G G C C G A C C A A C C A A G A T A A A G G C C G A A A G A G A A G G G C C G G$
 GAAGAGGAAAAGAGGGGGAGGAAAGGAAAAGAGGAGAAAACC $G G A A G A G A A A G A G G A C A G C A G A G A G A G A G G A A G G G A A A A A A A$ $A G A G G G G G G G C C G G G G G G G G A G C A G G C C G G A C G G A A A G A G A A$ AAAAGGGGGGGGAAGGAAAAGGAAAAGGGGGGAAAAAATXAA A A GAA A G G G A T T A A C C G G CA G GAGAGAACCGGGGGGATAC G G CACAAAAAAAAAGGAGAAGGAAAAGGGGAGCAGGTAGAAAAA G GAGAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G A C A G A A A G A A G G A G G G A G G G A A G G G G C B A A$ GACGGGGAGGGCAGAAAGGGAAGGGGAAGGAGAAAAAAGGTT AAAGAGGGAAGGGAGGACGAAGCCCCAGAGAAAAAGAGAAGG GACCGGAAGGAGCCGAAGAACCGGGGAAGGAAGGCCGGAGAG G G G A A A A G G GCCCC G G A GACAA G G G G G A A G GA G G CAA G G G C C C CAA $A \operatorname{G} G A G G G A C C A G G G G G A G G G A A A G G G C A G G G A A G G G G A$ AAAAGGAAGGAACCGACCGGAGAGGGAAAAAGAAAAAACAAC AC G G A A G A GAAA A G G G G G A A A A A A G GAA G GAAAAAAA G G G G A A CAAAAAGGAAACAAGGAGAGAAGAGGAGGGGGAGAGCCGAGG G G G G G G A A A G G G A G A G G G G G G G C C G G G G A G G GCC G G C C A A A A $G G A A A A G G A A A A G G A A G G G G A G G G A A A A G G A G G G C C G G A G G A$ $A \subset A G G A G A G G A A G A G G C C G G A A G A C C A G G G C C G G A A G G A A G G$ G G G A A A G A G A G G G GAACCAAAA GAAAAACCAAGBCCGGCAAA AAGGGGAAAAAAAAAGCCGGGGAAAAAAAGGGGGGGAACAAA

A A A A GAGGGAGAGGAAACTAAAAAAGGGGAGAAGGAAAAACA A G G GAA $A \operatorname{G}$ AAAAAAACAGGCCAAAAGAGGAAGGAAAAGAAACC C C A A G GAGGGGGAAACGGAAAGAAGGGGAAAACCGGGGAAGAG AAAAGGAGGGGGAAGAAAGGGGGAGGAACGCCAAGGAGGGAG
 G GAGAACCAAAGCCGAGAAAAAAGCCCCGGCCAGEAAGABA G G A G C A A A G G A A G G G G G G G G A A G A A A C C G G GA G G G A G G A G A A AAAGAAAAGGAAAGAAAAGAAGACAACGAGCGGGGAAACABG G GAGAAAAAAGGGGAAAAGAAAAAAAAAACAACCGGCCAAGAG AGGGTACCGGGAAAGAAAAGAGAAGGGGGGGAGGGGAAACAT
 G GAGCCGGAAAAAGGGAGCCGGAAGGGGGGGGGAAGAAAGAA GAGGAAGGGGCCGGAAGGGGAAAGCAGGGGAAGAGGAAAAAG G G G A A A A A GAGGA GAGAAGGGAGGAAGAAAAGGGAGCAAACC GAAGAGCCGAGGAGAAGGGGAGGGAAAAAAAAAAGGAAAAAG G G GAA A A G G GCCAAGGCCGGAAAGGACAGGAGAAGAAAAAAA

 GAAGGAAGAGGGGGAAGGGAAGAAGGACAGAGAGGGGGAGGA GAGGTTAGGGGAGAGGGGAAAACCCAAAGGAGAAAACCAGAA G G G G GA $\operatorname{l}$ AAAAAAAAAGGGGAAGGAGAGGGAGAAGGAGCAGA G GAGAAAAGGAAAACCGGGGAAAAAAAAGGAGCCAGGGAAGAA A GAAAGACGAGAAAGGAAGAAGAAGGCCGAGAAAGAAAACAA G G G A A A $\mathcal{A} G G G G G G G G G A G G G G A G A C C G C G G G G A A G G A G A A G A$ GAGGGGAACCGGAAGACGAAAGGAAGGAGGGGAACACAAAAG A A GAA ACAAAGGAAAAGGGGGGGGAGAAAAGAAAGGAGAGCA ACGAGAAAGAGAAACCGAGGGGAAAAAAAAGGACACATGAGG AACCGAGGAAGGCAGAAGGAGAAAGGGGAAAAAAAAGGAGGA GACAAAGAAGGGAGGGAAAAAACAGAAAAGGAGAGGGATXCC CCGGGGAAAAACCCAGCCGGGGGGAAACGGAAGAGAAGAGAA C GAA A G G G GACCACGGAAAAGGAAAAAAAAGGAGAGAAAGGG $A G G G G G A A A G G A A G G G G G A A A A A G G G G G A A G G G G C A A A G G G G$
 AAGGCAAACCACGGAGGGAAGGAGCCAACCAAGGAGAGAGAA $G G A A G G A A A G A G G A G A C A A A A A G A A G G G A A C A G G G G G G A A G A$ T TAACACAGAAAGGAAAAGGCCAAAAGGACAGAAGGAGCCAG G GAAGAGGCCAAAAGGAAGGAACCAGACAAAAGGCCAAAAGA G G GAAAGGCCGAAGAAGGGGGGGACCGGGGGGGAGGAGAAAA G G G GAA $A$ ACAGACCAGGGAAGGAAAGGAAACCCAGGGGGGAA $A G C C A G A G A A G G A A G G A A G G G G G G G G A G G G G A A A A G G G G G G G$
 A A A A A ACCAGAAGAGGACGGCAGGAAGAAACCAAGAAAAAAA GAAGAGGGAGAAGGGGGAAGCCGGAAAAGGAGGGAAAAAAGA AA G GAACACAAACCAGAGAAGGAGACCAGGGGGGBAGGGGGG
 G G G G A A A G A G G A A GAGGGAAAAGGCCAAAAAAGGGAGAAAAA
 A GAAAAGGAGCCAAAAAAGGGGAAGGGACCAAGGAAAAAGAG GAGGGAAGAGGGGGCAAAAAAAAGGAAAGGAAAAGGGGAGAA GAAAGGACGAGAAGAATTACGGGCAAAAAAAGAGAAAAGAAA A G G A A C A A TAA A A GAGAAAAGAGAGACCGAGGGAAGCAGAAA G G G G A A G G A A G G G G G G G A A A A A GAA A G GAA A G G GAAAA A A C A G G G G A G G G A A A A A A A G C C A A A G G GAA TAAAAAGGAGAGAAGAC A GAAAAGGCAAAGGGGGGAGAGAGAGCAAGAGCGAAAGGGGG A G GAAA A G A A GAGGGGCCGGCCGGGGGAGGCCAACCAGGGGG G G A A A G G G A A A G G G A A CAAACAAGAGGAGAAGAGGGAAGGGG G G G G G G A A G G A G G A A A G G A GAA A G A A A CA GAGGGGGAA G G A A GAAAGGAAGACCGGAAAAACAGAGGCAGGGAAAAGGGGAAAG GAGGAGAAGGGGCCAACCAAAAGAAAAAACGAAGGGAACCAG

A A G G A A A G GAGAAGGAAAGGCCGACAAGGGCCAAAAGGGGAA G G G G A A A C A G A A A G G G G G G G G GCC G A CA G A A G GAA A A C G A G A A A C A G G G G G A G G G G C C G G A G G A A G A G G G G G A G A G G G A
 G G G G G A G G A A A GAA A A A GA TAAAAAGGGAGGGGAAAAAAGGB A GAGAAGGCCGAACCCAAGAAGGGGGAAACAGAGGAAAAAAG G G G G A C A G G G A A A G A A A A GAGAGAAAGGGGCCGGAAAAGAAA G G G G G G G G G G G G GACCAGAAAGAAGGAAGAGAGAAAGGAAA G A A G G A A A A G GAA $A \operatorname{GGG} \operatorname{GA} A A C A A A A G G A C G A A A G G G A G G G G A G$ $C A C C G A G A A A C A A G A G A G A G G A G G T T A G G A A G G G G G A G T A G G$ G GAAAAGGCCAAAAGGAAGGGGAAGAAGAAAAAAAAAAGGAG A G GAAAACAGGAAAGAAAGAAGGAAGGCAGAGAGAGGGGAGG GAAGAAAAGAAAAGAAAAAACCGGAGGGGAGAGAAAAAGGCC $A C G A A A A G G A A A A A G G C A G G A A A A A A G G G G A G A G A G G A G G C A$ GAGGAAAAAATTAAAAGGAAGGTTAAGGGGCCGGGGGGGGGG A A A A A GAGGAA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A A A A A A G G A A A A C A G G G$ G GAGGAAGAGGGAAAAGGGAGGAAGGAAGGAAGGAAAACAAA
 $A G G A G A G A A G A A A A G G A G G G A A G G A G A G G G G G A A G G A T A C G G$ G G G G A G G G G G A A A A CAAAAAAGGGGGGGAGGGGAAAAAAAAAG $C \subset G G A C A A A G G A A G G A G G G A A G A G C A A A G G G G A T G A A A A A A G$ G GAGAGGAAAGACCAGAAGGGAAAAAGGGGAAAAAAAAGAAG AAAAAGGAAAGGAACAAGGAGGGACACCGGGGAACACAAAAA A GAACCGGGAAAGAGAAAGGAGAGAGGAGATAGGCCGGAAAA A GAGGAGGAGGAAGAAGGCCCCGGAAAGGGGGAAAGAGAAAAA GAGAAAGGGACCGGGAAAGGAATAGGACAAGGGAAAGAAAAA
 G GAGAACCGGGGGGAGGGAGAAAAGGGGAAAAGGGGAAGGGG G G G G G G G G A A G G A A A A G G G GAAAAAGGGCCAGAAGGAGAA GA GAAAGGGGAAGAGGGGAGACAAAGGGACAGAGAACCGGACAA
 G GA $A$ AA A $A \operatorname{Ag} \operatorname{G} G A A A A A A A G G A A G G G G A G C A A G G G G A A A G G A A$ G GAAGAAAAGCAGGAAAAGAAAGGAAGGAAGAGGGGGAAAAAA AAAAGGAAAACCAACCGGAGGGCAAAAAAAAAAAAAGAGAAA GACAGGGGAACCAAAAAGGGAAGGGAGGGGAAAGAAGAGGAG AAAAAGAGAGAAAACCAAAAGGCCAAAAAGGGGAGGGAAAAG CAGAAAAAAACCAAAGAAAAAAAAAAGGGGAAGACCGGAGGG $C \subset A A G A A A G G A G A A G G G G C C G G G G G A G A G G G A C A G G G A G A A A$ G G G G G G G G G G G A A A G A A A GAGGCCAAGGGGCGGGGGAA GAAA G G G G A A G A A A A G G G A A GAA A A G A GAAGGAGAAGGA GAA GAC C AACCGGGGGGAAGAAAAGAAAGCCGACAAGAGGGAGGACGAA
 GATAACAAAAGAGGAAGGGACCACAAACAAGGGGGAGAGGCA G GAGAAAGAGAAAAAAGGAAAAGGAGAAAACCGGCCAAGAAA G G G GAACCGGAAGAGGAAAAAGAGACAAAAACGGGGGGCCGG GAGGAAAGAGGAAAAAAGCCGGAGAAAAAAAGACCACACAAA G G G G G GCAAACCGACCAAAGAGACGACCAGAGAAAGGGGGGG AAAGGGCCCCAAGGCCAAGGAAGGGAGGAGAGAGAAAGGGGG G GAA $A \operatorname{GAA} A A G A A C G A A A A A G G A G G G C C G G G G A G G G C C A A A G$ G G G G A A G G A A G G G G G G A A A A G G A G G G C C G A A G A A A GA G G G A G A A G GAGCACAAAGGAAAAGGGGAAAAAAGGAAAAAGAGAACA GAAAAAAA $A$ A A $A$ A A TAGAGAACCCCAAGGGGGGGGGGGGGGGG A A A G G GAAAAAGCGGGACAGGAGAGGAAGGCAGCGAAAAAGG GGCAAGAACAAAAGAAGGGAAAGGGGAAGGAATTAAAGAACA A A G G G A A G A G G GAAAAAAAAGGGGGGACAAAGAC GAAA GAAA A A G G G GAA A GAACCGGAACCAAGAGGAGGGAATTAAACACAA AACCAAAAGGAAGAGAGGAACCCCAAAGAAGGGAACTXGGGG A GAAGGAAAAGAAAGGAACCAAAGGAAGAGAAAAGAAAAACC $G G G A A A G G G G A A G G G G A A G G C C G G G G G G A A G G A A A A A A C C C C$

AACCAAAAAAGGAAGGAAAAAAAACCAAGGAAAAAACCACAA A A G G A A G G A A G G G G G G C C A A A A A A G G G G G G C C G G G G A G A G G G GAGAGGGAAGAACCAAGGCCAGAGGACCGGAAAACCCAACBA GGCCGGAAAAGAAGAAGAACGGGGAGAAACAAAAGATAAAGG G G G G G G GAAAGGGGCCGGGAAAAAGAGGAGAACCGGAAGGCC
 G G G GCCAAAAAGAAGGAGAGGAAAGAAAGAAAGGAACCACAA G G G G A A A A G G G G C A G G A GAAAAAAAAGAGGGGCACCGA G GAC GAAGCCAGAGGACCCAGGGAGAGAAGGGGGAAGGAAAAGGGG AAGAGAGGAGACGAAAGGAACAAGAAAAAAGGGGAGAAAAGA A G GAAA A A G G GACCGAGAAGCAGAAGACCCGGGGGGAAAAGA CAAA GACCGGAACCCCCCAACCGGAAGGGGTTAAGCCCGGGG G G A A A C G G G A G GAA $A \operatorname{G} G A G G G C A G A G G G A A A G G A G A A G A G A A G$ A G G G A A A A G G G G G G T T A A A A C C G G A A A G G GA GAA A A G G GA G A A A A A A A GAAGACAACCGGAAGGGGGGACAAAAGGAGGATTGA G G GAGGAGAACAAAAAAAGAGGAGCACAAGCCAAGGGGGGCAA
 A A G G G GAA A ACAATCAGAAGAGGAGGAGGGGGAAAGAAAAGG $A A C C G G G G G A A A A A A A G A A A G A G A G A G G A A A G A G G A G A G G A G$ A A A A G GAA $A$ G A A A A A A GAA A G G G GCCAAAACCAAAACAAAAA AAAAGGGGAAAAGGAGAGGAAAAGAAGGGGGGAAGGAGAAAA G GCCAAAAAAGGGGAAAAATGGGGAAGGAGAAGGAAAAGGGG

 A GACCGGGAAAGCAGACCGGGAAAAACAAAAGGGAGACGGGG GAGAGAACAAAGGGCAGGCCGGCCGGCCGGGGGGGGGGGGGG A GCCGAAAGGAGAAAAAGGAAAAAGGAGAGAAAAAGAAAAGG G GAG $A \operatorname{GG} \operatorname{GAGGAACCAGGAGAGGGGGGCCAGAAGGAAGAAAAG}$ AA G GAACCGGCAAGGAAGGGGAGAGGAACCAAGAAGGAAACC AACAACAAGAAGGGGGAAAAGGAGCCGAGGAAGACCGGAAAAA $G G C C A A G G A A G G G A A A C C C C G G A G A C G G C A A A G A A A A G A G A A$ C C C A G G G G G G A G G G G G A A A A G G A A G A A GAAA A G GAAAC G G G G G GAA A G G G G GAAAAAAGGGAAGAAGGAGGGAAAAAAAAAAAG G GAGGGAGAAAAAAGAAAGGGGGAGAGAAACCAAAGACAAGG G G G GAAAGGAGGCAAGAAGAAAAGGACCAGGAGGAGAACCAA G G A C A A A G GAAAAAGGACAGGAACAAAAGGAGGAGGCCAAAA AA $A$ ACCAGGAGGGGGGGGGGGGAAAAAAGGGAGGGGGGCAAA A A G GAAAAAAGGGGGGAAGGAAAAAGGAAGAGAGAAGABAAG G G A A A A A C A C A A A C G G A A A GAAGGACGAAATAAA G G G G GAAAA AACCGGGGAAGACACCAAGACACCGGCCAAAAGGAAAGGGGG A A A A A GAA GAAACCCCAGCCAGAGAAAGAAAGGGGGCCAGGG G GAACCCAAAGGAGAAGAAAAAAAGGAACCCCGGAGAGAAAA G G GACCGGGAAAGGAGGGCCGGAAGGAACCGGAGGGGAAAAA $A G G G G G G G G G G G G G C A G A C A A A A G A A G G G G G A A G G G G G A G A A$ G G G A A GCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGAG AC G G G GAAGGAACCGGAAAAAACCCCGAGGGAGGCCCAAAAA AAAAGGCAAAGAACGGAAAAGGGGGGAAGGGGAAAAACAGAA
 A GAA A GAA A G G A A A A A G G G GAGGGAGGAGGGAGGAAGAAAAA A A G G G A G A A A A A A GACAGGAGGAAAGAAGGAAAGA GAAAG G G G $G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G G A A G G G G G G A A G G G G A A A A A A A G A G A A$ G G G G G G G G G GAACCAAAACAAAGGAAGGAACCAAAAAACCGG G G C C G G G G A A G G G G G G G G G G G G A A A A A A A C C G G A A G G G G G G G G $C \subset G G G A G A A A A A G G G G G G A A A A C C A A A A A A A A A A G G G G A A A G$ G G G GAA GAGACCACCCAGCCCACCAAAAAAAAGGAAAGAAAA $A G A G G G G G A A G G A A A A A A G A A A G G G A A G T T A A G G A A G G G G G G$ G G G G G G A A G G A A G G C C A A A A G G A A A A G G G G G G G A GAC C G G A A A A G G G G G G C C G G G G GAGGAAGGACGGGGCCAAAAG GAA G GA A CAAAAACCCCCCCAAAAACAACGGGAAGAAAAAAGAGGGGGA

TAAGGGCCAGGGGACCAGGGGGAAGGAGAGGGGGGGCCAAAA C C G G G A A A A A C C C C A GAAAGAAAGGGCCAAACCAGAAAAAG G A A G G G G A A G G G A A G C C G G A A C A G G G G G A GAAAAA A G G
GCCGGACGGAAGGAGGGAAAAAGGCAACCAGGGGGAAAAGG GAAAAGCCGGAAGAAAGGGGGGGACAAAAGGGAAAACAGGGG A GAAA A A A G G G G CA $A \operatorname{Ag} \operatorname{A} G A A A G G G A A G G A G G A G G C C A A A A G A$ A GAGAGAAAAGGACGGAAGGGAGAAGAAGGGAAAGAAAAAAA G G G G G G G G G G G GAAAAAGGGGAAGACCGAAAAAAGAGCAGACC C C G G G A C C G G G GA T G G G A A GAAAAAAAAAGAGGGGACAGACAA G G G G GAAGAAGGAAGGAGGAGGAGAAAAAAAAGGCCAACAAA
 GAGGGGGAAGGGGGAGAGAAAGGAGGGAGAGGAAGGGAAGAA G GAAAAGAAAAGAAAAGGGAGGCCGGAACCGGAAGGGGAAAA A A A G G G GAAAAAAAGAAAAAAGAGAAAAACCCAGA GA GA AAAG G GAA $A \operatorname{GAAAAACCAGGGGGGGAACCCCGAGGGGAGGGGGCAGG}$ GGCCAAGGAGAGGAGGCCAAAAAGAGACGAAGGAGAGAAGAA
 A GCCAAAAAGAGGGGAAGAAGGGAAAAAAGAACA GAGGAGAA GAACGGGGAGAAGAGAAGAAGAAAACGAGGGGAGCAGGGGGG G G GAAA A A GAGAAGGAACGGAAGGCAGGACAAGACCCAGGAC $A G G A G G A C G A G A G A G G G G G A A G A G G G A A A A G G G G G A G A A C A A$ GAAGAGGGAAGGGGCAGGGGAAGGACCAAGGACAGGACGGGG
 C CAGAAGGAAAAGAGGAAGAGGAAAGGGGAAGAAAGGGAACA GAAGGACGGGCCGGGGAAAAGGGGAAAGGGAGCAAGGGAA$A A$ A GAAAGAGAAGAAGGGAGAAGGAAAAAAGAAAAAGGAAGAAA A A G GAAAGAGGGAACGGGGGGATTGGGAAGAGAAGGCCACAG A GAAGATTGACAGAATAACCGGGGAACCAAGGAAAAAAAAGG A A G G G GAAGGCCGGAGGGAAGGAGAGACGGAAAAACGACCAG AAGGAAGGGAAAGGGGAAAACACAAGGGAGAAAACCCAGGAA C CAAAAGGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA AAGGGAGAAAAGGGAAGGGAGGGGGGCCAACGATGAAAGGGG G G GAA A A GAAGGAAGGGACCAGCAGGACAAAAAAAAAGAAAA
 A A A A C C A A $\mathcal{A} G G G G G G G A G T T A A G G G G G A A T A G A C A A C A A G A A$ AAAACGGACCAAGGAAAAGGAGCCGAAAGGGGGAAGGAAAGG GAGGGGAAGGAAGAGGAAACGGAAGGAGAACCATACGGAGGG AAAAAAAGAAGGAAGGAGAACCAAGGGGAAGGGGCCGGAACA

 $A A C C G G G G G G A A G G A A G G G C G A G G A A A G G G G A G A A A A G G G G A$ G GCCCAAGGAAAAAGGGGGGAAAGGAAGCCGGAGGGCAAGAG A GAGGGCAAGAAGGAAGGAAAAGGGGAAAAGGGGGGGAAAGA G G G G A A A A A A G GAAAAGGCCAAGGAAGGAAGGAACCAAAAGG A A G G A A A A C C C C A A G G G G G G G G A G T A A A A A G GAA G G G G A A A A G G G G A A C C G G A A G G G G G G G G A A G G G G A A A A A A G G G G A A A A $G G$ G G G GCCGGAAAAGGAAGGCCAAGGAAGAAGAGGGGAGGCCAC G GAAGGAAGGCCAAGGAACCAACCGGGGAAAAGGAAAACAAA $C \subset A A C C G G A G A G A A G A A A A A A A G G G G A A A C A A G A G A A G A G G A$ A G G G A A A A A A G GACAGAGCCGGAAAAGGGGCCAAGGACAGAA
 G GAGGGAAGGGACCGGAAAAGGCCAGAGCAGAGGAAAAAGGG G GAGAGGGAAGAAGGAGGAAGGAAAAGAGAGGGGGAGAAAAG GAAGGACAAGCCGGAAGACAGAAGATAGGAAAAGGGGAAGAT CACCAAGAGGCCAAGGAAGGAAAAGGCAAGACAAACAAAAGG A GAGAAGGGGAAAAGGCCGGAGGGAAAAGGGAGGAAAAGGAA A A G G A A G G G GAGCAGAAAAGAGGAGGCCAGACGGAGGGGGGG A A G G G G G G A G G A T T A $A$ CA A $\mathcal{A} G G G G G G G G G A A G G G G G G G G A A A A$ AA $A G G G G G G G G G A A A A A A A G A G G A A G G G A A A A A G G G A A C C A C$

A GAAGGAAAACCGAGGAAGGAAAAGAAACGGGCCGGGGAAAG C C CAC CAA G GAAAAGGAAAAACAGGGGGAGCCAAAGAGAGAA A A A A A A G GCCGGGGGGGAGGACAACCAGGGCCAAAAAGAGAA
 GACAAGGGGAACGGGGGGGAGGGGAGGGCAAGAAGGAGAAGA C C A A A GA GAA $A \operatorname{A}$ GAAGGAAAGCCGGAAGGGAGAGGGAGAAGAA A A G GAA $A \operatorname{G} A A A A A A A A A C C G G G G A A G G A A A A A A A A G G G G G G G G$ C C G GAA $A \operatorname{GAAAGGAAAATTGGGGAAAAAGAGAAGAAAGGAGGG}$ A A C C G A G A G G G G A C G G A G G G G A A A G G G G C C A G A GC CA GAAC C $C \subset A A A A G G G G G A G G A G A G A G G G G A G A A G G A G A G G G A A A A G A G$ G G G G G G GAGGGACATTCCGGGAAAGGCCAGCCAAGAGAAAAG $A G A G A A G G G G A G A G G G G G G G G G A G T A G G A A A A G G A A C A A A B A$ $A G C G G A A A G A G G A A G G G A A A A G G G G G A A G A G G A G G A A C A A G G$ A A C C A A C C A A G GAACCAGAGGGGGAACCAAAAGGA GAGAGAG G G G GCCGAGGGGAAGGGAAGACAAAAGGAAGGAAGAGAGAGA GAGAAGACGGGGGGACAGGAGACAGAGGAATTAAAAAAGAAA A A G G A A G G G G A G G G G G G G G G A A A A A A A C A GAGCA $\mathcal{A} A A A A G G G G$ GAGGGAGGAAGGGGAAGGCCGGTTAAGGGGAAAACAGAAAAA GAGGAGGAGGAAGAGGGAAGGAAGAAAAAGCCAAAAGGGGCA G G G GACGGCCAAGGAAAAAGCCAAGAAGAGAAAAGAAGGGGG GACAAAAGCCGGGGAAAGGGAAAAGGGAGAGAAGCAAGCCGG A GAGGGGGAAAAAAGGAAGACCAGGGGGGGAGGGCCAAAACC C CAA $A \operatorname{GAAAAAGAGGACAAGGGGGAAGGAAAGACAGGCAAGAA}$ A A G G A A GAGGGGAGGGACGGAAAGAAGAGGAAGGGACAAAAA GAAAGGCCGGAAGAGAACAAGGAACCACAAAAACAGGGAAAG AAAAAGGGGAAACCGGGGAAAAAAGGAAAAAAGGAAAAAAAA G G G G G G GAGGAAAAAAAAAAAAGGGGAACACAAACAAGACAA C C A A A G G A A A G GAA $A \operatorname{GGGGGGAAGAGAAAAAGGACACGGAAGA}$ GAAGAGACAAGGAAGGGGAAGGAAGGCCCAAGAAAGCAGGGG A GAAAAAGAAGAGAAGAGGCTTGGAAGGAATTAAAGGGAGAA A G A A A A $\mathcal{A} G G G G G T T G A A G G G G G A G A A A C A A A G A A A A G G A A A G$ GAAGAAGGAAGGAAGAAAGGCGATAAGAGGAGGAAGGGAAGG A A A TACAACCAAGGAAGGGGAAAAGGAAGGAAAAAACAAAGG AACAGGAGAACACAAAGGGGGAACAAAAAAGAAAAAAGAAAG GAGAACAAAAAACCCAAAGGAAGAAACCAAGGGGGAGGAAAA C C A A A A G G A A A A G G G G C A A A G A A A GAGGGAGGGGGAAGAAC C GAAAAAGGAGGGAAGGAAAAGGCCGGGGGGGGGGAAGGAAAA G GAGAAAGAAGGCCAAGGCAAAAAAAGAGGCAGGGGCCAGAA CAACGGGGGGGAGGGGAAAAAAGAAAAAAGAGGGGAAGAGAA A A G G G GA GAAA A A A G GAAAAAAAAA AAGAAAA AAACCCCGGBA G GAAAGGGAAAGGGAGAGAAAAGGAGCAGGCCGGGGAAAAAA
 AGGGACAGAGAACCGGAAAAGGCCACAACCAAAAGGAGGGAG A AC G A A C G GAGGGGGGGAAACCGAAAAAAACCGGAAGGGGCC GA $A$ A A $\operatorname{A} A A G A G G A G C A G G A T A G G G G G A G G A G G G G G G C C A G A A$ GA $A \operatorname{GA} A C C G G G A G G G G A A G G G G A A G G A G C C A G G G A C B A A G G G$
 GAGAGAAGAGGGGGGGGGGCAAAACCAGGGCAGGGGGGGGCC AAACGGGAAACCGGATGGAAAAGGGGCAAGGGAGAACCCCGG A A A A G A G GCA $\mathcal{A} G C C G G G A G A G G G G A A G G A G G G C G A G A C A G G A$ A G G A G G A A A A A G A C G GAGGGGGGGCCGGAAAAAA G GAA G CAAA AACCGGAAGGGGAAAAAACCAAGGAAGGAAGGGGGAAAAAAA GAAAAAGAGGGAAACAGGGGGGGGCCAGAAGGGGAGCAACAA GA $A$ A A $\mathcal{A} G G G G C A G G G G A A C C A A G G A G G G A G A A C A G G G G A G G G$ $C \subset G G G A A A G G A A G G G G A A G G G G G G G A G A G A G A A G G A G A A A A C$ G G A G A A C A G G A A A A G G G G G G G GCCAAACAAAACCGAAGAGA G CCGACAGGAGAGAGAAAAAAGGCCGGAAAGGGAAAGAAAACA C C A A A A G GCCGGCCAAAGAAGACCAACAGGCCAAGGGGGGGG AAAGGATTGGAGCACACAACGGAAGGAAACGGGGGGCCGGGG
$C \subset A A A A G G A G G G A A A A A A A A G G A A G C G G A G C C G A C C A A A A A G$ G G A A A G A G A GAA G GAAAAAAAACCGAAGAAACAACAACGGCC G G TACAGGGGAGAGAAAGAAAGAAAAGGGGAAGAGGA
AAAGGAAAAGAGGAAAAAGAGAACGCGAAGGGGGGAAAAAA A A A A A A G GCCCCAAAACCAAGGGGGGGGGAGGGGATAAAAAA ACAGGGAGAACCAGGGGGCCGGGGGGGGCCAAAAGAAACAGG AACAAGACAAAGAGAGAAAGAAGGGAAAGACCAAAAGAGGGG AACCGGAGAAGGAAAAAAGGAAACGGAAAGGAGGAAGGAAAA
 CAGGGGGGGACCGAAAAGAAAAGGGAAGGGGGAGACAGAAAG AAGGGAAAAACCCCGAAACAGGGGAAAAAGAAGAACCCAGAAA
 A A G G G G G G A A A A G G A A A A CAGAGACAAGGAAGGGCAAAAAAA $G G C C C G A A A G G A A A G G A G G G G G A G A A G G G A G C A A G G A A G A G G$ A GAAAAAGGGAAGGAAAAACAGCCGGCCGACCAAGGGAGAAA A G GCAAAGGAGAAGGAAAGGGGGGGGCCAAAAGAAGAAAAGA AACCAAAGGAAAAAGGCCGAACGGAGAGGAAAGAGAGGGGGA
 AAAACCAATTGACCGGTTACAGGGGGCCGAGAAAGGAAGGGG A A A G A C A A G A G G A A G A G G G G G G C A G C G G C A G G T T C C G G G A G A $G G C C A A G A A A C C G G G G A G G A G G A G C C G A G A G G G G C C G G G A G G$ A GAGGGAGAAAGAAAAAGGGACGGGAAGAAAGACGAAAGAAG A GACCCAAGGAAGGAGAAAAGGGAAGCATAAGGGAGAAGGGG A G A A A A $\operatorname{A} A A \operatorname{A} G \mathrm{G} G \mathrm{G} G A A A G G G G G G A G A G G G G A A G A A A G G G G G G$ ACGGAGGCGGAGGGAAAAAGAAAAAGAAGGAAGGGGGAAAAG A G A A A GAGGGAGAAGGCCGGGGGACCCCAGGAGGAAGGGGCC G G G GACAGGAGGAGGGCCAACCGGGGAAAAAAACGGACGAGG
 G G G G G GCCAAAAAAGGCCGGAAGGAAAAGAGAGAAAGAAACC GACCAAAAGAAAAGCAGAAAGAGGGAGAAGAAGGAAGGAAAG $A A G G A G A A G G A A G G G A A G A G G G G A G G G G G G G A A A A G G A A A G A$ AAGGAGAAGAAGGGGAACGGAAGGAAAAAAGACCAAAAAAGG G G G GAAAAAAAAGGGGGGAAAAAACCAAGAGATTAACAAGAG ACAAAGGAAGAAGGAATTGGGGCAGAAGGACCAGGGAAGGGG AAAGAACCGAAAAGAAGGCCACGAGAAAGGAAAAGGGGAABAA A G G A A A G A A A G A G G A A A GACGAAAAAAAGGGGAAAAGAAGA G A G GAAAAGACGGGGGGGGCAGAGAAAAAAACCAGAAGGGGGG A A G G G GA $\operatorname{G} G A A \operatorname{A} G A G A G A G G G G A A A A G G G A A G G G G G G G G G G G$ G G A A T TAAAAAAGGCCAAGGGGAAGGAAAAGGGGGGCCGGGG G G G G A A A A G G G G A A A A G GAGGGAAAAGGCCCGCCAAAGCCCC $C C G G A A A A A G A A G G C C G A G G C A G G C C G G G A T A G G A G A A G G A C$ G G A G G G G G A A G G A A A G G G A G A A C C A A C C G GCC G G G G G G G G A A
 A A A A G GAA A A G GAAGGCCCAGAGAGGGAGGAAGGAAGAAGAG
 G G G G G G G A G G A A A G C A A G CAGGAAAGAGGGGGAAACAGAA G G A A G G A A A A G G A A A A A G GAACGGCCAGGGAGAGCCGGGGACA G G G GA $\operatorname{G} A C C G G G G A A G A A G A A G A G G A A A A G G G G A A G G C C G A A G$ G GAACAAGGGCCGGAGGGCAAGGGGGCCAAAACCGGGGAAAA AAAACCCCGGAAGGAAAACCGGAACCAACCAAGGGGGGAGAA A GAACCAAGAAAGGAAGGGGAGCCAGCCAGGGGGCCAGAAGG A G G G G G G G G G A GAA A A C C T TA A G A G G CAAAAA A A G G G GAA G G C G G G G G A A G G A A A C A A G G G GA G G G G G C C G G A A G G G G G G G A G G G GAGGGAAAAGGGGGGAAAAGGGAAGAAAAAGGGAAAGAAAG GAAAAAGGGGGGGAGACCAGGGTAGAAAAAAAGAGAAGAGAA GAAAGGCCAAGGGGAAGGGGGGAGAGAGGAGACCGGAAGGGG AGGAGGCCCCGGAAAAAACCAAGGCCAAGAAGGAGGGGAGAG G G A A A G A A G G A A GACA G GCCCC GACCCCGGAGGGGGGGAAA G G G GAGAAGAGACAGCGGAAGACCCGGGGCAAAACAACCAGGG

GAAGAAGGGGGGAAGAGGAGAAACGGAAGGGGAAAAAAAGAG
 AAGGGGGGCCAAGGCCAAGGGAAACCAAAGAAGGAGAAAGAG A GAAAGGGGAAGGGACAAGAAGAAGGAAAAAAGAGGCAGAAA AAGGGGGGAAGGAAGGCCAAAAAACCGGAAGGGAGGAGAAGA G G G G A A G A A A G C G A A G A A G G G G A A G G A GAAGGAGGGAAAAAA G G G A A A GAGGGAAACCAAAAGGAAAAAAAAAAAAAAAA GAAA C CAACCAAGGCCGGCCGGTTGGGGAAGGGGAAAAGGGGAAGA G GAA A G G G G GAA $A \operatorname{G}$ GAAAAAAAAAAAAAAGGAAGGGGAA GAAA AAGGGGGGAAGGAAGGAAAACCCCAAAAGGAAGGAAGGAAGG A A G GAA A G G G A A A A A A A A A A G G G G G GAA $A \operatorname{AGGGC} C A A G G A G A A$ G G G G G G A C A G G G G G A G G G G A A G A A G G GAGACAA A A A TAA A A C G G G G G G G A A G A C A G A A GAGGTTAAAGAAGGAAAAAAGACCAG GAACAGAGGGGGGGAAAACCAAGGAAGGAACCGGAAAAAAAA G G GAAAGGGGAACCAAAAGGCCGAGAAAAACAAAAAGAGGAA AGAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAGA GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGGAAAAC C G GAA A A GAAGGGGAGAAGAGGAAAAAAAAGGGGAAAAGGAA AACACCAAAAAAAAAAAAGAGGGAAACAGGAAGGGAAGAGAG
 GGCCGACAGGAGCCAAGAAAAAGGAAAGAAAAAAAGGGCAGA G GAGGGAAAGGGAAAAAGGAAGGAAGAAAAGAAAACAGGGGG $G G A A A A G G G A A C A G C C G G G A A G A G A G A A A A A G C G A A G G A A G A$ A GAGAAAACAGGAAAAGGGGAAAAAAAAAAGGGGAGCCACAA G G A A A A A G G G A A G GAC $\mathcal{A} G G A G A G A G A G A A G C A G G G G A A A A G B$

 G G G G G G A A G G G G G G G A A A G G A A G G G G G G G GCC G G C C C C A A G G A A GAGGGGGGAAGGAAAAAAGGAAAACCGGACCAGGAGAGGG ATAGAGGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGB C C G G G GAGAAGAGAGAAGAACCCAGAAGAAGAAGA GAA G GACC GAAAAGGAAGAAAAGGGAAAGGAAGAAGGGAAAAAACAAGAG GAGCACAGAAAATTGAACGACCGAAGAGAGGAAGGCAAAAGG AAAA A GAA $A \operatorname{A} C \subset A A G G A G G G A G G G G G A A G G A A G A G G G A A G G G$ G GAGCAGGGGGAGGAGAGACGAAAGGAAAAGACCGAAAAGGG A A A A G GA $\operatorname{A} G A \operatorname{A} A \mathrm{G} G A A C C G G G A A G A C G A G A C C G A A G G G G G G G$ G G G GAGAAAACCCGAACAAGGGAGGAAAAAAAAAAAAGCCGG AGGGCACCAAAAAAGGCCAAAGCACAACAAAAAGATAATTGA

 A A A A G G G G G G A A A GTTGAAGGGACGGCCGGCCCCCCAAAAAA G GAA A A A GAGGGAAGAGGAATTACCCCAGAAGCCGCAAGGGA G GCCGGAAAAAAGAAGGAAAGGAAAGGACCGGGAGAGGAAAA $G G T T A A G G G G G A G G A A A A G G G G A A A A G G A A G G G G A A G A A A A A$ G G A A G G A A G G A A A $\mathcal{A} G G G G G G G G G G G G A G A A G G A A A G C C B G G A$ C A G G A A G A C C G G G A G G G G C C G G G G A T A G C C G G G G G C G G A A G G C C TAACAAAAGAAAGGGGAAAAAGAGAGAAAAAAAAGGGAAA T TAAAAAGGGAAGGAAGGCGAGAAGGGGAGGAAGAAGAAGAA A GAAA A A G GAA A A GAGACAGGGGGGGAAAAGGGGAAAAAGGG A GAGAAAAAAGGAAAAACAACGGGGGGAAAGGGAGGAA GAAA
 GAGGGGGGGGGAGAAGAGGGGGGAAAAAAGAGGGGAGAAAAA G G G G G A G G A G A A A GAGGGAAAAAAGAGAAACCAAAGACAGGG AGGAGGCAGGGGGAAGAACCAAGGAAGGCCAAACAAAAAAGA A G A A A TA GTTGAAAGAAAGGAAAAGGGACGCCGAGGAATTAA A A A A G A A $\mathcal{A} G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G B G A A$ A A A A C CAA A G G G GAGACCCAAGGGGGGGAAAAAAAAGGGGAC A A C C A A G A CAA A A C CAAGCACCGGGGAAAAGGAACCAGAA GA AAAAGGGCGAAGGGAAGGGGAGAAGGGGGGGGGAAGAAGACA
$C \subset G G A A G G A A A C G A A G A G G G A A C C G G A A A A A G C A G A C C G G A A$ A G G GACAGAGAGAGCGAAGAGGAAGGAGCAAGCAAAGGAAGA GAGGGGCCGGGGAAAGGGCCCCCCAAAAGGAAAAGGG
GCAGAGGGGACCCAAAGACAGGAGGAACCGAACCCCACCGG AAGGAAGAGAAGAAAACCGGGGGGAAAACAAAAGCAGAAAGB G G G A A TAAAAGGGGAGGGAAGGAAGGGGGGAAAAAACAAAAAA A G A G A G G G G G G G A G G G A G G G G G G A G G A A G A G G A G A A A A G G A A CAAGGGAAAAGGAGAAAATTGGGGCCAGGAGGCCGGCCACAG A ACCAAAAAAAAAACCAAAAGGAAAGGGGAGGCAAGAACABA G GAAAAGAGGAAAGGGAAGGGGGAGGAACCAAGGATGGAGGG AAAAGGAAAAGGAGCCGAGGCCAGGGAAAAGAAAGGAAGGAA
 G G G G A A GACCGGCGGGAGAAAAAAAAAAACAA $\mathcal{A} A G G G G G C C G G$ G G GAGAAGGAAGCACAGAAGAAAGAAGGAAAAGGGGAGGGCA CAAAAAAACCCCAGGGAGAGGGAAGGGAAGGAGAAAAAGGGG CAAGGGAAGAAACCAAAAAGAGAAGGAGGAAGAGAAGAAAAA C CAA $A \operatorname{GAA} A C T T G G A A A A A A A A A G G C G A G G G G A A A G G A A A G G$ G GCGGAACAGAGAAGGTTGAAGAGAGAAAACCCGGAAAGAAG $A G G G G G G G A A A A G G G G G G C A A A G G G G G G G A G G G A G G G A A A G B$ A G G G G A A A C C A A A G G G G A A G G G A G A G A G G A A A A A G G A A C C G A GGCCTTGGGGGGGGAGAAGGGGAAAGAGAAGGAAGGAAAAAA $A A C C A A A A A A G G A A G G G G A A G G G G G G A A G G G G A A G G G G G G G G$ AA $A \operatorname{GA} A A A G G G G G G A A G G C C G G A A G G G G C C G G G G A A G G G G G G$ G GAA A GCCAAGGGGCCGGAAAAGAGAAAAAGGAAGGGAAAAA T TA A T GAGGACCAAGGGGGGGGAGAAGGGGAGGGAACAAAAA A GAAAAGGAGCCAAGGAAAAAACCAACCGAGAGGAAGGCCTT GGAAATAGCCAAGCAGAGGGAAAAGGAAGGAAAAGGAAAAAA A A G G G G G G G G A A G G A A G G A A G G G G G G G G C C G G A A C A A GACAA G GAA A GAAAAAAAAGGAGGGGAGGAAAAAGAGAGGAGAAAAA G GAGAAGACCGGGAAATTAGAGAAGAGGAGGGAGAAGGAGAAG C A G G G G A G A G G G G G C C G A A G G G G G G G A A A G A A A A A A C C C G G G AAAAAAAAGGGGGGGGGGCCGGGAAGGGGACCGCCCGAAGAA A G GAACAAAAAGAGAGCCGAAAGAAAAAAAAAAAAAAAGGAG A G G G T A A GAGGAAGAGACAAGGAAAAAAGGGAAGAGAAAAAA A A A A A A A A A G A A A A A A A A G G A A G G G G G G A A G G A A T TAA $A$ G G G G G G G G GAAAAGGAAAAAAAAGGAAAAAACCCCGGCCAAAAAA G GAAGGGGAAGGGGAACCGGCCGGCCGGAAAAAAAAAAAAGG G GAAAAAAGGAACCCCGGAAAAAAAAAACCAAAACCGGGGGG A A G G A A G G A A A A G G G G G G G G G G A A A A G GAA A G G GAAAAAAAA A A A A G GAAAACCAAGGGGGGAAGGAAGGAACCGGAAGGGGCC AAGGAAAAAAGGAACCAAAAGGAAAAGGAAGGAAAAAAAAAA A A G G G G G G G G A A A A A A G G A A A A A A G G G G G G G G A G G A A A G A A A G GAAAGAAGGCAGGGGAAGGAAAATAAAAAAAAGAAAGGGCC G GAGGGAACCGACAGAAAAAGGGGATTAAAGGGGAGAAAA GA $G G C C G G G G A A G G A G A G A A G G A G A G G G A G C A A G G A C A C C G G G G$ ACTAAAGAAAAAAAGGAAGGAAAAAAGGAAGGAAAAGAAAAC CAAGGAGACCAGGGAAAGACACAGAGAAAGGGGAAGAAGAAA G GAAGAAAAAAAGAAGAAGGAGAGGAGGCCACAGGGAACCGG T TAA A A GAGGAAGGGGAAACGGGAAGAGCCAGAGCAAAAGGG G G A A G G G A A A G GCCCCAGGGGGGCAACCCAAAACAGAACAAA G G G G A A G G G A G A A G A A A G G G G A A TAAAA A G A G G GA G GA G G G G A GACAGAAGGAAAAGGGGAGAAAGAAGGGGGGAAGGGAAAAA A A G G G G G G A A G G A A A A G A A C A G C C A A A A G G G G G G G A G A T T G A ACGGAAAACCAAGAGGGGCAGGGGAAGGCCAAAAGGGGAAAA AA G G A A G A A A A A G GAAAAAGACAGAAGGGAAGGGGGACGGAA G GAAA A G GAC $\mathcal{A} G A A G G A A G G G G A C C A G A G G A A A A G G G A A A G G$ G GAA A G G G A CAGAAAGGAGAGGGGGGAAGGAAAAGAGAAAAA C CAA $A \operatorname{GAAAAAGGGAGAAGCAAGGAACGAGAGAGAAAAAAAGA}$ GGGGAAGACACCAACCGGAAGAAGGAGGAGAAGGAAGAGGAG

G G G G G A C C A G GAGGGAAAGGCCAGGGGACCAGAGAGGGACBA G G G GAGGAAGAGAGAGAAAGAAGAGGGGGGAAAGAAGGACAA C CAGAGGAGGAAGGAGGAAAGAGGGAGGGAGAAAGGGGAA G G $A \operatorname{A} A$ G G G GAA A GAGGGCCGGAAAAGGAAGGGGGCAGGGAGAGAGAC G GCCGGGGGGAGACGAATGAAACCAAAGGAGGGAAGGGACAG G GAGGGGGGGCCAAAGAAAAGGGGAAGGAAGGAAAAAAA GAA ACAGAGCCGGAAGGGGAAAAAAGGCCGGAAAAAAAAGAAAAA G G G G G G A A G G A A A A G G G G G G C C A A G G GAA $A \operatorname{AGGA} G G G G G A G G G$ G G A G G GCC G G A A A G A A G G G G G G A A G G GA C C A A A A A G G G G G G G GGCCAGAAGGAGGGCAAAAAAGGGAACCGAAAGGGGAAAACC G G G G G GCCAAAAACGAAAAAGGGGAACCGGAGAGAGGAAAAC AAAAGACCCCGGGGAACCGGAAGGCCAAGGGGGGGGAGAACA A A GAAA A G A A A CA A G G G G GAGGAAAAGGGGGAACCCGAAA G G GGCCAAACGAAGAAGAAAGGGAAAAAAAAAAACCAACCAAAA $C C G G G G G G A G C A C A C A G A C C A G G G A A G G A A A G G G G G A G G G G G$ AACCGGCAAAGGAAAAGGAAAAGAAGAAAGCAAAGAAACCGG A ACCAAGGGGGGGGGGGAGGGAGGGGGGGACCGACCGAAAGA G GAA A G G G A A G GAAACAGATGGGAAAGGAGAAAAAAAGAAAA $A G A A G G G G G G A G G A A A G A G G G A G G A A A A G G A A A A A G A G A C A G$ GACCAAAGAAGGGGGGGGAAAAAAGGAAGGAAAGAACAAAAA AGACAGGACAGGGAGAAGAAGGACCCGGAAGGGGAGAAAAGG G GAA A G GAACGAGAAGGAAGGAAGCCAGGGGGCAAAACGGCA CAAGGGCCAAGGAGGGGGGAAACGGGGGGGAAAGGAAAGGGG A GAG G A A A A $\mathcal{A} G G A A G G A A A A A G A A G G G A A A A A G G C C G A A A G G$ GAAACAAGAGAGAAAAAAGGAAGGGGGGGGCAGGGGACABAA GACACAAGGAAAGAGGAAAAAAAAGGAGAGCAGAGAGGCCBG TAATCCGGGACCAGGGAAGAAGGAGGAAATAGAGGGGGGGAG GAAGGGGGAAAAGGGGGGCCGGAAAAAAGGCCAAGGGGAGAA G G A A G G G G G G G G G G G A G GC G A G G A G A G G C C G G A G G A A G A A A AAGAGGAAGAGACCGGAAAAGAAAAGGGAGAAAGGAAAAGGG AACCGGGGAAAAAAGGAGAGAAAGAGAGAGCCGGAAGGAGAA G G G GAA A GAGAGAAGGAAAGGGAAGAAGGAAGAAAGAAAAGA A A A A A A G GAGGGGACCACGGAGGAAAGGAAGGCCACGGAGAA A G G G G GAA A A G GCCAAGAAGGAAGAAAAGGGAGAAAAAGGGG
 AA G G GAAGAGCCACAAAAAAGAAGAAGAAAGGGACCAAGGCC C C G GCAACAAAAAAGGAAGGGAGAGAAGGAAGAGGGGGGGCA A G GAAAAGAAGGCCGGGACAAGAAAAAGAGAAGGGGGGAAGA A CAG G GA GAGGAGCACAAAAAGGGAGAAGGAAGAACGAAAAG A CAGATAAAAGACACCGGAAGAGAAAGGAAAGGGCCATGGGG G G G G G A A GAGAGGGAAAGACAAAGCCAGGAAAAATTAAAAAA G G A A G GAAA $A$ A A G GAAAAAGAAAAAGGGAAAAAGGAACCCCCC AAGGCCGGAAAAGGAAGAGGAAAAAAAAGGGACCAGGGAAAA A GAGGACAAAGACAGAGAAAGGAACCCAGGCCGGGGAAAAAAA G GAGAAAGAGGGAAAGAAAAAAAGAAAGACAAAAGAGBCAAA C C G G G A G G A GAGAA $A \operatorname{GGGGAA} A A G G A A A A A A A G A A G G A A G A A A$ AAGGAAAAAAGGACAAAAAGGAGGCAAAGAGGAAGAAGACAG C GAAAACCAAAAGGGGGGCCGGAAGGAGAGAGACAGCCBAAA A G GAGAGACAAAAAAAAAGGAAGGAAAAGGGAACACGGGGGG G A A T A A A GCGCCA GAGGAGACCGGGGGAAAGGGGAGGAAGAG G GCCAGGGAACAGAGAAAGGAAGGAGGAAAGGGGAAGGAGAA G G G GA GAA A GAGGGGGACGGAAGGAAAACCAAGAATGACACC A A A A A ACCAA G GAAAGGAAAGGTAAGAAGGAAGGGAAGGGGG ACAAGGAGAGGGGGACAAAGGACAGCGAGAAGAGGAGAGCGG G GAGCCCAGGAAGGGGAAAACCGGAAAAAAAAGAGGAAAACC $A G G G G G G G G A A G G A G G G G A G A A G A G G G A G G A G A A A A C A A A A A$ G G G G A GAGCAAAGAGGAAAGGGGAGGGGGAGGAAGGAAAGAA $G G A A A A G G A A A A G G A A G G G G A A G G G G A C A G G G A A A A G G A A A A$ G G G GAA A A A A A C G G G G GAGAAGAGAACCAAAAGGGGGGTTGG

G GAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGAAA G GAA A G G GCCAAGGGGAAAATTGGGAGGAAGAGGAACA GAAA AAAAGGGGAAAAGGAGCCCCGGCCAAGGAAACGAGGC
CAAAGGGAAGAAACCGGGGGGGGGGAAAAAGGAGAAAAAAA G GAGAACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGAA G GAA A G G GAAGGAAGATTAAAAAAGGGAGGAAGGAAAAAGAA A A A A A A G G G G G GAATTACCCAGGGAAGACCAAGGAAGGAACA GGGGGAAACCGAACAAGGAACAAAAAAAGGAAGAA GAAAAGAG $A G C C A A G A A A G G G A G G G A G G A G G A G G G G G G A G G G A A G E A G G G$ A GAGAGAAGCCAACGACAGGAAAGGGAAGGAAGGAAGAAAAG GAGAGGAGGGGGAGCCGAGAAGCCGGGAGGAGAGAGGAAAGA GAACAAGGGGGAAGCCAAAAGAGGACGGAAAAAAGGGAGACC
 A ACCAAACTTAGAGAAAGAAGGAACCAAGGAAGGGAGGBGAA G GAAAAGGAACCAAGGGGCCGATAAAAAGGGGCCAAGAGGAA A A GAAA A A A G GAA $A$ A A A A A A GGGAGAGCCGGGGAAGGGGAACAC
 AACCGGGAAAAAGAACCCGGAAAGAAAGAAGAAAGGGGAACC $A G C C G A A A A G G G G G C A A G A A A A G G A A A A A A A A G G A A G G A A G G$ GA $A$ A A $A G G A A C C A G G G A A G G G A G G G G G G C A A A G G A G A A G A A A$ G G G G G G G GAAGGGGGGTAAACAGGCCGGAAGGGGAAGGAGAA TAAAAGGGAGAGGAAGAAAGGAGAAAAAGGCCAAGGAAGGGG G GAGGGGGAGCACCAGGACAGGGAGGAGGAAACAGGCAAAGA GA $\operatorname{G} A A A \operatorname{A} A A A C C C A G A A A G A A A A A G G G G G G G G A A A G A G G G G G$ GCGGGGGGGGCAAGAAAACCTTAAGGAGGGGGAAACAGAAAA G GCCAAACAAGAGAGGAAACGACAGGAAGGAGATAAAAAAAA AAGGAAGAAAAAAAAAGAAAAAGGGGAAAAAACAGGAAAAAA A A A A G GAA A G G GAGGAGGGGAAAAAGGGGGAAAA G A A A A A A A G G ACGGGGAAGGGGGGAAGGAAACAGGGGGAAGCAAAAGAAAAA GACCAAAGGGGGAAGAGGTTACAGGGAACCCATAACAGGGGG $A G G G A A C A A G G G A A G G G A G G A G G G G G A A A A A A A A A G G G G G A G$ AAGGAAGGGGGGGGAGGGCAAGAACCGGGAAAAAAGAGAGAA GAAGGGGAAAAAGACCACGGAGAAGGAAAAGAAGGAGAGGAA A A A G A A C A G G G G G G A G G A A G G A A C G G CAC GA GA A G GA G A G G G A A A G G G G A A G G A A G A A A A $\mathcal{A} G G G G A G G C C A G A A A A A A A G G G G G$
 G GAA A GAA A G G GAGAGGAAACCACGAGGAGAAGGGGCCACAAA A A A A A A G GAAA A G GAAAAAAAAGGGGCAAGGAACA GAGAGAC A CAACCCCCCAAGGAAGAGGAAGGAAGAAAAAAGGAAAGGGG
 AAGGCCAGGGAAGAAAAAAGGGGGGGGAGGAAAGAACAAAAG A $G G G A A A G C C G A G G G G A C G G A G G G A C A G G G G G G G A A A A A A G G$
 G G G G G G A G G G G GAGGGAAAAGAGAAAAAAAGGGGAGGAAAAA
 GAAAGCGGGGGGAAGGAAAGGGCCAAAAAGAGGAAAAGAGAG GACC G G A A GAAAACCGGGAAGGAAGGGGGGCCAAGCAA G GAA GAGGAGAAAAGAAGGACCAAAAGGAGAGCCGACGGAACAAAA AAGAAACCCCGGGAAAAGGGACCCGGCAAAGAGGAAAAAGAG A A A A A A A GA $\operatorname{A} G A G G A A A A G G G G A A C A G A G G A A A G A A G G A G G G$ C CAAA $A \operatorname{G} G A A A A G G G G A A G G A A G G A G G G A G A G A A A A A A A A G G$ GAACGGGAAGAGAGGGAAAGACAGGGCAGAAAAAGGAAAAAA $G G A A A A C C G G A A G A A G A G A C A A A G G G G G A G G G G G G G A A A A A A$ G GAGGGCAATAGCCCCGGACGAGAGGGGGAAAGGGGAGAGAG GAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACCGGGGAGAA A A G GCCGGGGAAGGAAAAAAGGGGGGCCCAAAGGGGAAACBA A A G G G A G G A C G A G G G A A A G G G A A GAGGAAAGGGAAA G G G G A A A GAAGCACCAAAGGGGGGGGAGAGGGGACACGAAAAAGGATGG GGAAACGAAGAGAAAGAAAAGGAAGGAAGGCCCCGGGGAAGA

G G G G G G G G G G A A G A G A A G A A A A G G G GAGGGAAA A A TA G T T G A G G A G A G G G G G A A G G A G G G G G G G A A G G G G T A G A A A G G A A A G G A C C G G G G G A C C A G A G A A G G G G G G A G G G G G A A G G A A A A G A A G G G AAGAGAGGAAGGGGGAAGAGGGAAAAAAGCGAGGATAACCAA $C \subset A A A A G G G G G A A A G A A A C C A G A G A A A C A A G G G G A G A G A A A G$ A GACAAACACGAGAGGAGAGCCCCACAAGGGGAACCAACAAA G G G G G A A C A G G G G A G A G G G G C C C C G G G A A A A A G GAA G G C C C C GAAAAAAGGAACAGAGAAGAGAGGAGGGAAAACCGGGGAAAA G G G G A A G G A G G A A C G GCCTAGGAC GACAGGAGAAGGGGAAAG G GACGAAGGGAGAAAAGGAAAAGGGGGGGGGAGAAAAAAGAG AAAGGGAAGGAGCCCCAACCAAAAAAAAGGGGGAACGAAAGB G G G G G G G G C C A A G G A G G G G G G G G A GAGGAAAAGGAAAAAAAA A A G G A A A GCCAAGGGAAAGGAAGAGGCCACAAGGCCGBAAAA $G G A C G G A A A A G A G G G A A G A A G A G G A A A A A A G G G G G A A G A C G A$ AAGGGGCCAAACCCAAAAAAAAAAAAACGGGGAAAAGGAAAA G G G GCCGGATAGGGAAGGGGAAGGAAAGAAGGAAAACAAAAA AAAACCCCCCGAAGAGGGGGGGCCAAAACCAAGGAAAAGGGG G G A A A A G G G G T T G G A G A GAAAAAAAAAACCAAAACCGAAAAA GAAGGGGGAGGGAAGGAAAACCAAGGAAGAACGAGAGAGGGG C C C C A C G G A A G A A A A A A A A A A A A A A A A A C CA GAA GA G G G G G A A G G G G A A A C C G G G G G G G GAGGGACTAAGAGAGGAGGGGCAAA G G A G G G A A A A G G G G G G G G G G A G G G G G A C G G C A G G G G A G G G G G CAAGGGAAGGGGGGGAGAAGAAGGCCCCGGAAGGGGAAGGGG G GCAGGCCAAAAACGGCAGGGGAAGGAAACAAGAAAAGAAGB A A G G A A G A CAGGGGAAAGCCGAAAAGGAGAAAACGBAAAAGG A A T TAAAAGGCCGGGGAAAAGAAAGGGAAGGGAAAAAACAAA AAAAAAACGAGACCAGAGGAGACCGAAAGGGGGGAAAGAGAAA
 A GCGGGAGGAAAGGAAGGAAGCGAGAAGGAACGAGBAAAGCC ACAACCGGAGAAAAAAAGCAGAAAGGAACCAACCCCAAAACC A A C C C C G G G G G G A A C C G G A A A A G G A A G G A A A G G A A G G A G G A G G GACAAAAAAGGGGGGGGAGGGGAAGCACCAACAGGAAAGGA A G G G G A C A A A G G G A A G G G G G G G A A A A C CAA A GCCTTGAAAAA ACGGGAGGAGGGAGAGGAAACGAAGGGAAAGGCCAGAGAGAA A A A A G G A A G G A A G A G G C C G G A G G G G G A G G A G A A CACAAA A A A C C G GCAAAAAAGGAGGAAAAGACCCAGAAGGGAAGAAAAAGG GAAGAGGAGGCCGGAAGGAAAAGGCCAAAAGGACAAAGGGAG GAAGAAGGGGGGGAGGAGCCGGAAGGGGCAGAGACAAAAAGG A GAAA A A G G A A A A A A A G G A A A A G GAGGGGGGAGGAAAA G GA G GAACAAGGGGGGGGGGAAGGAAAAAAAAGGAAGGGAGAAAAA $G G A G C C A A A A A C A A A A G G A A A G A G A A G A G A G G G G G G G A G A A A$ A GAACCAAGGAACCAAACCCAAACAGAAAGAAGABAGGBGAA G GAAGGAAGGAAGGACAAGAACGGAGAGAGACAATTGGAACC G G G G G G A A C C G G A A G G G G G G G G A A G G C C C C C C C A A G G G A C C C $A C G G A C A A A A A G G C G G A A A G G G G G G A A A A A G G G G G A A G G G G A$ A GAA $A \operatorname{GAA} A A A A G G A A A A A A A C A A A A G G G A G G G G A A G G G G A G$ GAGGGGAAGAGAAGAGAGAGGAAGAAAGAGAAGAGGAAAGAG G GCAGGAAGGCCCACCGAGGGGAAAAAAGGGGGAGGAAGGGG AAGGAAAGACAGACCAGGGGAAGGGGAGCAAAGGGGGAAAAA
 GAAAGAGAAGGAAAGAAAGGGAAAAGAGAGTTCGGGGAAAAA G GAACCAAAAAACCGGAAGGAAGGGAAAGGACAGAAACAGAC GAGACAAAGAAGGGGAGAGGAAACAGAAACGGAAGGGACGTT G G G GAAAGCAGGAAACGGAAGGGGAACAGAAGAAGGAAGGGA G G A G G G G G G GCCTAAATTGGGAGAAGCCGGAAGGGACC G GAA C CAAAAGGTTAAAAGGAAGGAAAAAAGGAAAACCAAGGAGGA GAGGGGAAAAAAAAAAAAGGAAAAAGAGAAAGGGAGAAAAAA G G G GCCAAAAAGGAAAAGGGGGAAA GTTAGCGGGAAGGAGAA $G G G A C C A C G G C C G G A A G G A A G G A A G G G G G G A A C C G G A G G G A G$

G GAAGGACAAGGCCAAGGAAGGAAGGAACCAGGAGACGCAGA GA $A \operatorname{G} G A G G A A G A A G G G G G A A G G A G G G G G A A A A G G A G G G A A A A$ G $G A A G G G G G G G G G G A A A C G G A G G G G G A A A A C C A G A A G$
G GAGGACGGAAGGAAGGGGAGGGGGGGAAAAAAGGGGAAGG
 A A A A A A G G T T A A A A A A GAA A A GAGAAAAGGCCGAAAAA G GAA A GCCGGGAAAGAAGCCAAATGGAACCGAAGGGAAGGAGAGGG AAAGGACGAAAAGGACAAGACAGAAAAAAGGGAGGGAAAAGA A A G G A G G G C C A A A A A G A G G G A G A A G GAGAAGGGGGGGAAAAA GGCCCAGGAGAGCCGGAAAACCAAAAAGAGAAGGAAGGGAGG A G G G G GCCGAAACCGAGAAACCAAGAAAAAACGGGAAGAAAA
 C CAAC GAA $A \operatorname{A} G A G G A G A A A A G G G G G G A C G A G A A A G G A C C A G A A$ A G G G A A G G A A C C A A C C G G A A A A A A A A G G G G GA GAAA G G G G A A AAGGAAAGCCGGGACCAAGGCAGGGGAAAAAAAGGAAAAAGG
 $A G T A G G G G A A G G A A G G G G G A A A A A G G G A G G C A A G G G G G A G G G$ GAGGAAAAGGGAGGGAGGGGGGAAAAGGAAAAAAGAGGAAGG C G A A G G GAGGCAAGAGAGGAGGAAGGAGCCAAGGGGGGGGGA A G G G A A C A A A G G G G G G G GAGGGCAAGCCAGCAAG G G GAAAAG G G GAAGGGGAACAGGTTAAGGCAGGGAAAAAGAGGGAGGGAGA G G G G GACACCAGAAGGAAAGAAAAGGACAGGGGGGGAGCCGG
 $G G T A A A G G G A G A G G A G C C G G A A G G A A G G A A G A A A G G G G G G G A$ AAGGCCGGAAAGAAAAAAAAAAGGGAACGGGGAAACCAAGAC AC G G A A A A A A G G A A G G G G G G A A G G A A G G G G G G A A A A A A G G G G A A G GAA A G G G G G G G A A G GAAGGGGAAGGGGCCGGGGAAAAAA A A G G A A $G G G G A A A A A A A A G G G G G G G G G G A A A G A C A A A A A A G A$ G G GAAACCGGCCAAAAGGGGAAGGGGAAAAAAGGGGGGGGGG A A G G G G G G G G G G A A GACAG GAGGGCCAGGGAAAAGAAACAAA GAAAGGACACGGAAAGTTAACCAGCAAGAGAGGAAAGGCCAA GGCCAGAAGAAGAGACCAAGGAAGGGAGAAGAGAAAAGAGAG AAAAGGCCAAAAGGAAAGGAGGGGAGAACCAGAGAAAGAAGG A G TA A A G A G G G G G G A A G G G G C C A A GAAAAAGAGGACAAAAA T GCGGAACCCCACGGGGGGAAGGAAGGGGAAGAGGAGGGCCCC
 CACCAGAAAGGGGGAAAAAGAAAAGAAGGAAGAAGGGGAAAA G G G GAACAGGAGAAAAAACCGGACAGAAAGACAAGGCCAGAAA A A A C G G A A A A A A A $\mathcal{A} G G G G A G G G A A G G A A A G G G G A G A C A G G A A$ A A GA $\operatorname{A} G A A C C C C G G G C A G A T G A G G G A G A G A A C A G A A A A G C A A$ AAGGCAAAAGCCGGGGTAGGAAGGGGAAGAGAAGAAAGAGAG GAAAGGGGACGACCGGACAAGGGAGGGAAGAGAAAGATAGAC GAAGGAGGACTTCCGGCCAAGGAAAAAGAAGGGAGGAGAGGG G GCA G A G GCCAAAGAAGACCGGGGGGAGCAGAGAAGAAGAAG CAAGGGAAAAAGACGAGAAGAGAGGAAAAACCGAAAAAAGCC GAAAAAGACCAACAGGGGAAAACCACAAGGAGAGGAGGGGAG A G G GCCGGAAGGGGAAAAGGAAGGGGGAAACCAAGGAAAACA GAGGAGAAAAAGAGAACAGGGGGGCCGAGGGAGAGAGGCCGG C C G G G G G GCCAGAAAAAAAAGGAAGGAAAACCCCAAGGCCAA A A A A A A A A G G G GAAAA A $A$ A A $A \operatorname{AGACCAGGGGGGAAAGGAGAACA}$ A G G GAA A A GAACCCAAGGAACAAAAAAAAAAAAACCGGGGGG
 A A G G G A A G A A G G G G A G C G G A A A C A C A A T G CAA G G C C A A G G A A AGACGAAAGAGGGGGGAGGGGGGGCCGGGGAAGGAACAAAAA
 $A C G A T T G G A A A C G A A A G G G G A A A A G G A G G G G G A A B G G G G G A G$ G GAAGAAAGAAACCGGAGAAAAGGGAAAAGAAAAAAACBGCC A A A A A A G G A A A G G G GAGAAGGGGGAGGGCCAAGGGGCCAAAA AAAAGGGGGGGGGGCCAAAAAAAACCGGAACGCAAAAGAAGG

AAAGGGAGAAGGAGAAAGAAGAAACCGAAGCAGGGAGACCAC GAGAGAGAAAGGGGGAAACCAAGAAAAAGGAAAGAACCACAA GAGAAAGGCAGGGGGAGAAACCAAAGGGAAGAGGCCAAGGGG AGCGCCGGGCGCACAAACAGCCGGCGGGAGAAACCCAAGGAA $C \subset A A A A G G A A C C G G G G A A C A G A G A G G A G A G A G G G A A A A A A G A$ GACCGGAAAAAAAAAAAAAAAAGAGGAGACGGGGACCCCCGG A A A G G A T A G G G GAGGGGAAAAGAACAGGATCCGGAGCCCGBA AGGAAGGGAGAAGGAAGGAAAAAGGAAAAAGGAAGAAGGGGG
 A GAAAAAAGGAACCGGGGAAGGAGGGCCAAGACCAGGAAAGG A A A A A A A A GAGACAAAAAGGAAAAAAAAGGAAAAAAGAAAAA A A A A A A A A G G A A A A A A A A A A A ACCCCCCGGAAAACCGGGAGG G G G G G G A A G A G A G A A A G G A GA $\operatorname{A} A A A G G A A G G G G A G A A G A G A G G$ G G G G A A G G G G A A C C A A A G G A G G C C G GAAGGGAGGGAAAAG G G A G G GAGCCTTGGGAAAAAAAAAAAGAAAAACCGGAGAAAAGA AAAAAGGGAAAGGAAAAGAAAACAGGCCGGAGAAAAGGAAAC GAGGGGCCGAGGAGAGAAAACCAGACGGGGGGGAAAAAAACC $A C G G G G A G A A A A A A G G A A G G A A A A G G A A C C G G G G C C A A C C B G$ $G G C C A A C C G G A A A A G G G G A A A A A A C C A A G A A G C C G A A A A A A G$ A G G A A G A A G A G G A G G G A G A A A A G G A A G G G G A C A A G A A C G A G A AAGGAAAAGGCAGAGGAAGGAAAATAGAGGAGGGCCGGAGAG A A G G G A A A A A G G G G G G A A C C G G G GAAA A G G CAAAAA A GAAA $A$ A ACC GAAAGGCCGGAGGGGAAGGGAAAAAGAAAACCAAGGGG AACCGGGGGGAAAAGGGGAAAAAAAAAAAAAAAAAAAAAGBA GAGGGGGGACGAGGCCAAAATTGGACAGAAGGACGAAAGAAA C C A G A C A G G A G G G A G G G G G G G G A A A A G G G G G G C C G G A G G G C C AAAAACAAGAAAACCAAGGGAAAGCAAGGAAGACCCGAAAAA A GAA $A \operatorname{GAA} A G G G A A A G A A C C A G C A A G A T G A G G C C G G G A G G C C$ A A GAAAAGAAAAAGAAGGGGGAAAAAAAGGGGAAAGAACCCG A A C C G G A A AC G GATTTGGTTCCGGAAGGTACCCAAAAGCACC G GCCAAAAAGAAAAAACCGAAAGAGGGGCCCACACBAAGGAG A GAGAAGGAACAGGGGGGAAGGGGGGAACCGGAGAGCAAAAG A A GAAAACCCAAAGGAGGAAGGGGCCAAGAAAAACCGGGGAA A A G G G A A G G G A A A G GAGAAAAAGAGGGGAAAAAA GAAAAAA $A$
 G G G G GCGGGGAGCAAGAACCCCAGGGAACCGGCAGACCAGAA A A A G A A A GAGGGGGGGAAGGAAGGAAGAGGAAGAACAGAGGG $C \subset G G C C G G C A A C A A A A A A G G C A G G G G G G C C A G G A G G A C A A G G$ G G G A G A G A G G G G G A G A C A A A A G G G CAAAA A $A$ A A A A G G G A A G G G G G G G A T G G A GCA A G G G A A A A G G G G G GCCAAACAAAA A A A A A A CCGAAAAAATAGACAAACGGGAGAGAAAGGGGAAAGGGACGB AAAA $A \operatorname{GAAAAGAAAAGACCAGTAAGAAGAGGGGGGAGAGAGAG}$ A G G G GAAGAGAAGGGGGGAGAAAAGGGAAAAGGGGGAAAAAA A GAACCAACCGAAGAAAGGAGGGGGAGGGAAGGGAGAACGGG T T G GAACA $A \operatorname{A} \operatorname{A} A A G G A A A G G G A G A A G G C A G G G G G A G C G G A G G G$ A A A A A ACCCCAGAAGGGGGAGGAGGGAGGGAACCAGGAAABG
 G GCCCCGGGGAAAACCGGCCAAAAAGCCGGAAGGGAGEAGCG AAAAAGGAAAGGGGAGGGAAAAGGAGGAGAAGAAAGAAAGGG
 A GAGACGAAAAGGGAAGAGGCAGGGGGACCGGAAGGCAAAGG G G GAGAAAGACCAGAAGGGGAGGGCCGGAAACGGAAAAAAGAG
 T TAA A G GAAGAAAAAAGAAGGGAAGGGGAGGGGGGACCAAGA G GCAAGACCCAACCAAGGCCGGGGGGAAAAGAGGAGACAGGG C CAA $A \operatorname{GAAAAAGGGGCCCCAGAAGGGGAAGGAAAGAAAGAAAG}$ G GAAACGGAACCGGGAGGGAGACCCAGGAGAGCAA GAGAGAA G G G GCCAAAAAAGAAAAAGGAAGGAAGGAAAGGGAAGGGGAA GAGAAAAAAAGAAAAAAGAAAAGAGGCCAAAGAAAACCAAGAG

G G GACCGAGGAGGGACGGGAACAAAGAAAGGAGGGAGGAGAA A A G A A A GA $A \operatorname{GGG} \operatorname{GA} A G A G G C G A G G G A G G G A G A G G G A A G A A A A A$ G G G A A A A A CAG GA GAA $A \operatorname{AGAAGAAAAACCCCACAAGGG}$
GCCGGGGCACAGGAAAAAAGAAAGGCAGGAGGGGGGGCCGG AAAGAAAGAAAAGGGGAAGAAAGGGAAAAAACAGGGCAABAA A A A A A GACGGAAAAGGGGGGCCAAAACCAAAAGGAAAACAGG A G G G G GCCAA G GAAAACCAAAAAAGGAACCGGAAAAGGGGTT GCGAAAAAAAGGGGGGCCAAGGAAAAGACGGGAAGACGACCC G G A A G G G G G G C C G A G G G A G G G G A G A C G A A G A A A A C C G G G G G G GATAGAGAGAAGGGGGACTAAGAAAGAAAAGGAAAGGAAGGG G GAGAAAAAAAGAACCACGGGGAAAGCCGGGAAAAGGGAGAA A A A A G A G G G G A GAA $A \operatorname{AAGGAAACAAAAAAAAAAGGGGGAGAGG}$ A A A A A A A A A TA G C C G G CAA $A$ A A A A G G G A A A A G G G G G G G A A C G A GAAGAGACAGGGGGGGAAGGCAAGAAAAGAGGAAAGAAACAA A A G G G GAGGGAAGGCAAAAAGAAAAAAAGGGGAGAACAGGGG GGAAACCCGACCGAAAAAAAGGCCGAGGAAAGACGGAAAAAG G G GA $\operatorname{G} A \mathrm{~A}$ A GACCAGGGAGAAAAGGGGAAGGAGAACCAGAAGA G GCAAAAATTACAGAGGGAAAGGAAGGAAGGAGGAGCCAAGG GAAAGGGGGGAAGGCACCCCAAAAAAAAGGAGAAGGGAAAAG AACCGAAGAAGGGAGGGAAGGGAGAAAAAAGAACAAAAAGAG AAGGGAAAAAGGGGAGGGACAAGGAGGGCACAAGAAAGGAGC GAGGAGAGAGCAAAGAGGAGGAAAAGCCGAAGAAAAGGACAC AA GACAGAAGGAGGCCCAAGACGGAGAAAAAAAAGGCCBGAA $G G A A C C C C A A A A G G A G G G A A A A G G G G A A G G T A A G A A G G A A G G$ G G G G G GAAAAAAGGAAAGCCCCGGAAGGGGGGAGAAGAAAAC TA $A$ A A A $\operatorname{A} A G G C A G G A A A A G G G G G A G A G G G G A G G A G A A A A A A G$ CAA A A G G GCAGGGGGGCAGGGGAGCAAGAAGGGAGGGGGGGG G GCCAAGGAAAACCAAGGAAAAGGGGAAAAAAAAGGGGCCAA AACCGGAAAAAAAAAAAAAAGGAAGGGGGGCCCCGGGBAAAAA G G G G G G A A G G A A A A G G G G G G G G G GAAAACCCCAAG GAAAAAA G G A A G G A A A A C C C C G G A A A A A A G G A A G G G G C C G G A A G G G G G G AAGGAACCAAAAGGAAAAAAAAGGAAAAAAGGCCGGCCACAA G GAACCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGGGTTCC A A C C G GCCGGAAAAGGAAAAGGCCAAAAAAGGCCAACCGGCC C C G G G G C C G G G G A A G G G G G G C C G G G G G G A A A A A G A A G A A A G G A A G G G G A A G G A G A C A A $\mathcal{A} G G G G G G G G G G G A A A A A A C C G G T X A A$ G G G G A A A A A A G G G GCC $C$ G G G GACAGGGAGCAAGCAAGACAAA G G GAAGGCCAGGAGGAAGGGGAAGACACAAGCAGAGAAAAAAG A CAGCCAGGAGAGGGGAGGGGGAGGAGGAAGGAGAGAGAACC A GA $A$ A A GAA $A \operatorname{G} G A C A A A G A A A C C C A A G G A A G G G A A G G G G G C A$ $C \subset G G A A A G A G A G G G G G A G G G A A G G A G A A C A G G C C G G G G A G G G$ C C A A A A G A A GA GA GAGACAGAAGAGGGGCCAGGGGGAA G GAA A A A A A A A A A GAGAGAAGGGGGAAGAGGGGGGGAAGAGACAAA A G GAA ACCCCCCGGGGCCGAGGAGAAGGGGGAAAGGGAGGGG GAACGGCAACAAAGGAGGAACAGGGAGGAGGGGGAAGAGAGB A A A A A GACGAAAGAGATAAGGGCACACCAGGGAGAGCAAAAG A G G A A A G G GA G G A A A G A A A A A GAGGGGAGGAGGGCCAAAAAC
 GAGGGGAAAACAGGAGAAAGGGAAAGGAAAGGGGCAGAGGAA
 $A C C G G G G G A G A G A C G A C C G G A A G G A A G A A T A G A A G G G G A G A A$ G G G GAA A ACCGGAGACGAGAAGAAAAGCAACAGGGGAACGAA A A G A A $\operatorname{A} A C G G G G A G A C G G A A A A G G G G A A G G G G G G A G A A A A A A$ C C G G G GCC G G A GCGAGGGGAGAAACCAAGGAAGGAAAA GAAA GAGGGGGGGAACGAAAGGGGCCGGAGGAAAGAGAACGAAGAA A A G GCCAGCCAAAGGACACCAGGGAGGAGGGAAAGGGGAAGG C CAA A ACCAAGGGGGGGGAAAACAAAGAAAAAGGAGGCACCC GAAACAAGAAAGAAAAGAGGGGAGCCACCCGAAGGAGGAAGAG GAGCGGAAGGAAGAAGGGAACCAAGGGAAGACAGAAAAGGGG

A G GAGGGGGGAGGGCCGGGAAGAAACAAAAACGGGGAGACAG A GAACCGGGGGGGGAGAGGAAGAAAAAACCAAAAGAAAGGGG C C GAAAACGAGGAAAAAAACGGGGGGGACCGGAAAAAAGGAA G G GAGGAAGGAAGGCCAAAGAGAGAGGAAAGAAGCCAAGGGA
 GAAACAGGCACAAACAAACCGGCCAGAGGAGAGGAAGGGGGG A A G G G A T T G G G A G A G G G G G A G G A G G A A A G G A A G G A GACAAAA $G G A G A A G G G G G G C C A A A A G G A A G G G A G G G A G G A C A A G G A A G A$
 A GAGACGGGGAGGAGAAAAAAAGGGGGAGAGGCAAAAGGGGA A G G GAA A A A GCAGGAGAGAAAAAGAGAGAGGGGGAAAAAGGG GAGGAGAAAGGGGGGGGGGGCCCCCCAAGGGGGGGGAACAAA
 AAGGAAGGAAGGAAAAGGAAAACCAAAAAAAAGGAAGGGGCC A A A A A A A A G GAAAAAAGGGGGGAAAAGGAAAAAAGGAAGAAA G GAAAAAAGGGGGGGGAAAAAAGGGGGGGGAAAAAACAAAAA A A G GAA A G G GCCGGGGAAGGGGAAAAGGGGAACCGBAACC G G G G A A A A G G A A G G G GAA $A \operatorname{GGGGAAAAAACCAAAAAAAAGGGGGG}$ AAGGCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAGGAA G G A A G G G G A A G G G G A A A A G GAAAA $A \operatorname{AGGGAAGGAAGGGAAAGA}$ AAAAGGAAGGGGCCAAGGGGGGAAAAGGAAGGGGGGAACAAA AAAACCGGAACCGGCCGGCCGGGGAACCGGGGGGAAGAAAGG C CAA $A \operatorname{GGGAAAAACCAAGGAACCGGAAAAAAGGAAGGAAAAGG}$
 GACCGGAGAAAGAAGAGAGGCCAAAACAGGAAAGAGGGAAAG GAA A G G A G G G A GAGGAGGGGAGGGGAGGCCAAGGGAAGAACC GAAGGAGGAAAGAGGAGGAAAAGAGGGGGAAAGAAACAAA GA A A A A A A G GAGATAGGGAAGGAAAAAAAGAGAAGGAAAAGCCC AAAAGGAGAGGACAGAGGGGAGAAAAAAAAAAAAAAAAGGAG

 A G GAGGACAGAAAAGGCCGGAGAAGGGGAACAAAACGGAGGA
 A A A A A A A A G GAAAACCAAGGGGGGAAAGAACCAAACGAGGGG A GAGAGCAGGAGCCAGAGGAGAAGAAGAGGGGAAGGACAAAG GACCGGGGGGGGCCGGAAGAAAGGAAAACCGGAACCCCAAAA C CAA $A \operatorname{GGA} A A G G A A G G T T G G A A G G A G A G A A G A A G G A G A G G G A$ G GAAAGGGCAGGGGAAAAGGCCGGAAGGAAAAGAAGGGGGAG A G G A A A $\mathcal{A} G G G A G G A G G A A A A G G G G G A G G G A A A A A A A G A A G G G$ GACCCCCCAACCGGGGAAAAAGAGCCCATTAGAGGAGGAAAG CAAAAAGGGGAGGACCAGGAGGGGAAGGGGGGGGGGGGGGCC AAAAGGCCAAGGAAAAGGAAAAAAGGAAACAAGGAAGAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAGGG G G A A A A A G A A G G G G GAGGAAACGGAAGAGGAAAC G GAAA GAC A A G G G G G A C C C C G G G G G GAAAA A G G G A A T T G GAACAA G GA G A A G G G A C A C G G G G A A G G A A A A GACA $A \operatorname{AGCCGAAGGGAAAGGGGG}$ GGGGCCCCGGCCAGACGGAAAAAAAGGAAGGAGAGGCCAAGAG AAAGGAAGAAAAGGAAAAAAGGGGGGCAGGAAAGAAAAAAAA A A GAAACCGGGGAGAGGGGGTAAAACAAAAGGAAGGGGAGAA
 GAAAGGGAGGCAGGGACAAAGAGGAAAGCCCCGGAGCAAAAG GGCCGAAGCAGAAAGAGGGGCAAGAACAACAGAGGGGGAGGG A A A A G GAA A G G G GAA A A G GAGAAAAGGGGAGGGAGACA GAA G G
 G GAGGGGGAAGAAGAGAAAAGGTAAAAAAGAGAGACGGGGGG $A G G G A A C C C C A G A G G G A G G G G A A G C A A G G A A G A A A G A A G A A G$ ACGGAAGGAGAGAACCGGGGCCAAAAGGCCCCAAACAAACAA A G A A G G G A A A A A G A GAGGCCAGCAAAGAAAGGAAAAGGAAAA $A A C C C G G C C G A G A C A C A C A G A G G C C G G A A A A A G A G A T A G A G$

GAAGAACCGAAGGGAGGGAACAAGAAAACCAAGGAAGGCCAG G G GAGGAAAGGGAACAGGGGAAACAAAAATCAAGGGAGAACA A GAGACAGGGAAAGGAGGACGGAGAAGGAGAAA GAAA
AAAAAGGGAAGCCAAAGGGCCGAGGAGGGAAAAAGGGGGGG GGCCAGACAAACGGGGCCCCACAGAAGGGAGGGGAACAAAGA
 A GAGATGGGAGGAAAGAGCAAAGAGCGGCAGGGGGBAAGGAA
 A GAGCCGGAGGAAAAAGGTTGGAGGGCCAGCCAGAAGGGGGG AAAACCAAAAAACAAAAAAGGGGGGAAGGGGGGAAGGGGAGA A A A G G G GAAAGGGGAGAGAGGGAGAGGAAAAAAGACGAGGAA G G G A A A G A A G G G G G G G G A A GA $\operatorname{A} A A A A A G G G G A A G A A A A A G G A A$ GAAAGAACGGGAGAGGAAAAAAGGCCAAGAGAACAAGGAAGG G G G GCCAGAGCAGGGGGGAAAAGGGAAAGGAAAAGGGGAAGAG AAAATTGAAGAAAAAATTAGGGAGGGGGAGGACAGGAGGGGG ATAAAGGAGAGGAACCGGAACCGGAGGAAAAAGGGBAACCGG CAGGGGGGAAGGAAGGAAAAGGCCGGAAGGCAGGGAAGCCGG A A G G A A G G A A A A TAGAGGGAGGGAGGAGGAGAAAAAAATTCG AAAGCCAAAGAGAGGGCCAAAAAAAAAAGAATAGAGAGGGGA G GCC $C$ G G G G C G G G A G GAGAAAAGGGGGGAGGGACAAGAAAAA $C C G G A G A G A A A C G G G G A G G G A G A G G G A G A A A A G G G G G G A A T X$ G GAAACAAGACCAAAAAAGGAGAGGAGGACACGGGGAGAAGA $A C G A A G G A A G G G A A G G C C A G A A G G G G A A C G G G C C G A G G C C G G$ $C \subset C C G G G G G G G A A G A G A A A A C C G A G G G A A G A G G G A A G G C C G G$ GAGAAAGAGGGGCAAACCAAGCTACCGAAAAAGAAGCAAAGG GACGAGGAGGGAACAACCAGAGAAAGACACAAGAGGGAAAAC A G G G GAGGAGGGACGGCCACAAGACCGGAAAGCCCAAAAAGG AAGGAGGGAAGAAAAACCAAAGAAAAAAAAAAAAAAAACCAA A G GAAAAAGGCCACAGGGCCCAAAGGAAGGGGGGAACACAAC
 A A A A A A A A A A A GAGGGGAAAAACCGAAGGAGAAAAACAGATA AAAGAACCGGAAGGAAAGGGGGCCAAAGAAAAAAAAAAAAAA A A GAAAAAATCAAGAAAAGAAAAAAGGAGGAGGGAATAGGGG GAAAAGGGGAAAAGGGAAAAAAAACCAGGCAAACACAAAGAG A A GAA $A \operatorname{GG} G A T T G A A G G A C A G A A G A G A C A A A G A G G G G G C C A C$ A A G A A A A A A ACCAAAACAAGAGAAGAGGAAAAGGAAGGGGGA GAGAAGCCAAGGAAACAAAACCCCGAGGGACAAGGGGACAGB G G G GAA $\operatorname{G}$ GAAAAAAAAAGCCGCAAAAAAACAAGGGGAGAGAA ACAGGGAGAAGGGGAAAAAGGAGAAGGAGAAAGACCAAGGGG G G G G A GCCGGGGGGGGCCAGGGAAAAGGAGGAAA G GAAACC G G A A TACCGGCCAAAGGGGGAAGGCCGGGGGAGGAGAACCABAA A G A G A C G A G G G G A G G G A A G G G G G G A A G G C C C C A A A G G G G A A A G G G G G G TACCAAGAGATAAGAAGAGACCAGACCAAAGGAAAA GAAAAAAAGGAAAGAAAACCGGGGAAAAAGAGAGAAAAAA GA G G G G A GCCAGGGGGAAGGGGGGAAGGGGAAAACCAAGGAGGA GAGAAACCGGCAAGAGAGCCGGAAAAGAAGGAGGGGGGAGAA GAGAGGAGAAAGGGGGAAAAAGGAGACCAAGGGGAAAAGGGG G G G G G A G G A A G G G A GAGAAAGAGGAAGGACACAAAAAAGGGG G GCAACGGGGCCGGGAGAAAAAAAGAAAACAAACGAGGAAGG G GAAGAGGGAGGGGGGCCGGACAACAGGAAGAAAAAAGAAAA A A A A C CA $\operatorname{C} G \mathrm{G}$ GAAAGAAGAAGGCGGGGGAGGCAAAGAAAAAGG G G G A A A A G A C G GAA A G G G G GAACCGGCCGGGGAAA GAAA A A A A A G G A A G G A A A A A G C C G G G G G GCC A A G G A A A GC C A A G G A G G C A G G GA A A G G GAAAAGGAAGAAGAGACAAGAAGGACCGGAGAA A A G G A A G G G G A A G A GCA G G GAAGGAACCCCAAAAAAAAAGAG $A C G G G A A G C A G G A G A C G G G C A G A G A G A A G A G A G G G B A G A G A G$ G GAAGGAAAAAGAAAAGGACCCGGGGCAAGGGACGAGAAAAA A A G GCCGGTTGAACGGAAGGCCAAAACCGGGAGGAACCAGAG $C G G G A A A A A A A G A C A G A G A A A A A A G A A A G G G G C C G G A A G G G G$

G GAAAAGGGAACGAAAGCCGGAAGGAAAAGGGGAAAACAAA
 GA $A \operatorname{GAA} A G A A G G A G G G G A A A G G G G G A G G A G A A G G A G A A G A G G$ AAAAAAGGAAGGAAGGCCCCAAAAGAGGCCAAAAAAAACGGC GAGAGGAAAAAAGGCCGAGGACGGAAGAGAAGACGAGGAACC $A G G G G G C A G G A A G G G G G G A A G G C C C C G G G G G G G G A G A A G G A G$ G G GA G G A A A GCCGAAAAACAGAAAGGAAAGGGCAGAACAAAC AAAAGGAGAAAAGGGGAAGGTAGACAGGAGGGAACCAAAAGG A A G G A A A A G GAACCCCGGGGGGCCCCCCGGAAGAAGGAAAGA AAAAAGGGGGGGGGAAGGAAGGGAGGGGGGAGCAGAAAGAGG A G GAGGAACCGAGGAAGAAAAACCGGAAAAAAGGAGGGCCAA CA G G A A A A A A G GAAAAAAGGAGAACCAGAAAGGGGGACAACC
 G G A G A A A G A A C A A A G G GAG GAA A A G GA GAACC GAA GAGAGG G A ACAAGCCAACCCCAGGGGGGGGGGGGAGGAGGGAAAAGGCC G G G G G G G G GACCAGGGGAAAGACAGAGAGAGAGAGGGAGAGA G G G G GACCAACCGGCACCGGGGCAAGAGGGAAAAGGCCAACC A G A A A G A A GAGACAGACACAGAGAGAAGAACCAAAAAAGGCC AAAAAAGGGGCCAAGGAAAAGGAAGGGGGGGGGGCCGGAAGA GAAACCGGCCAAAAGGCAGAGGCCAAAAAAAAGGGGCCAAGBG AAAGGGCCAACGGGCAGGGGAAGGGGGGGGGGGGGGGAAACC AAAAACAGACAAGGACAAGGAAGGGAAAAGAACCAAGAGAAG A GAGGGAAGGAAACCCGGAGCCAAGGGGGGGGCCGGAAGAAA G G A A A A G G A A A G G A A GCCGAAAAGGGAGCCAGAGGAAAAAAA A A A A G A A A A A A GCAACAAGGGGAGCCCCGGAAGGAAAGAAGA GAGGAGGAAGGGAAAGAGAAAAGGAAAAGGAGAGCCAAAAAA AA $\operatorname{A} G A G G C C A A C A G A A G G A A A A G A G G G G G G A A A G G G G G A G A A$ G A A A A GAA A G G G G G A A A A G GAA A GAGGGAAACAAATGA GACC ACAA $\mathcal{A} G A G G A A G C C G G A A A G G A G A C G A A C C G G G A G G C C G G G G$ A A G A A A A A ACCAAAAAAAAGGGCGGGAGCCCCCCCAGAA A A G A G G A A C C A G G A A G G G G A A A A A A GAA G GAAC CA G G G A G A A A A A A A A A A G G G GAAAAAAAACCCCAAGGGGGGCCGGGGAACC G GAAATGAGAACGGAGGAAAGAGAGGAAGGCCGGGGAAAACAA AAAGGGGGAAGGGGGAACGGAACCAAAAGGGAAAAAGGAGAG G G G G A G G A A A A A G G A CAAGGCCCCGGGAGGCAGGGAAAAGAA T T A A G G C A G A A G G A A G G G G G A G G G A G A G G A A A C A G G A A G G G G A GACAGGGAAGGAAGGAAGAGGAAGGGGAGAAGCGAGGGGAA G G G GCCGGGAAAAACCGGAAGGGGGGAAGGATAGAGGGAGAA A A C C G G G G A A A A G G A G A A A C GAGGGGGGACCCCCGGAA GAAA G G A A A A C C A A A A C C A A A A G G G G G G A A G G C C G G G G G GAA C C G G $A A C C C C C G G G A A A A A A A G G A A A A A A G G A A G G G G A A A G A A A G$ G GCAGGCCAACCAGGAGGGAGGAAGAAAAACAGAGACCAGAC G GAAGGGAGAAGGGCCGGGAAAAACAGGGAGGAGGGGAGGCC
 AC GAGGGGAACAAGAGGGCCGGAAGAAGACGGACGGAGAGAG
 A A G G A A G G A A G G A C G G A A G G G G G G G A A A A A G G A A A A G G C C A A AAAAAAGGAGGGGGAAGGAAGGCCAAAAAAGGGGGGACAGAA A GAGCAGGGGAAAGAAAGCCGGGAGGGACCGAAGGAAACCBA G GACAGAAAACCGGGGGGAAAAAAGGGAAAGAGGGGAAAAAA $A C A G C A G A A G A A C A G G C G A A G G G G A A C C A A G G A A A A A G A G C A$ $G G A A G A G G A G G G G G A G G A G A G G G G G G A A C A G G G A A A G A A G A A$ A A A A G G G G G A A GA $A \operatorname{GGGA} A A G A A A A A A G G A G G G G G A G A G A C A A$ A GAAGGAACCACGAAGACGGAGGAGGGGAAAAAAAAGGTXAG A A G GAAAGGGCCAGAGAGCCAGAAGAGGAAAAAGAGAGGGGG GAAAAACCCCGGAGGGAGAAAACCCAAAGGAAGGGAAGGGGG A A A A A A A A A A G GCCAGAAGAGAACCCGGAAGAACACCCBGAA A G G A A G G A G A G G A A A A A A G G G G G G G GAAAA A G GAA G GAA G G A A G G G G A A A A C CA A G GCCGGGGGGAAGGAACCAGGGGAGAGGAG

ACAGGGGGGAGGACGGGGAGGGAAAAAAAAGGAGGGCCAAAA
 GACAAAGGGGAGAGAGAAGACAGGAAGAAAGGGGAAA
$G C \subset A A A G A G G A A G C C A A G A A A G G A A A G A A A A C C C C A A C C G A$ GCAACCAAGGGGAATAAACCGGAGAGAAAAAAAAGGGGAGAA A G G A A GAA $A$ A ACCGGGGAACCAAGGAACAAGAAAAGACCAAAG $C \subset G A G G A A G G C C G A C C C A G G G A G G G A G A G A A A A A G G A A A A G A$ AGGAGAGACAAAGGGGAAAGGAAAGGGGCCCAAGGAAAGGGG G G G G A A A A G G A A C C G G G A A A G GCC G GAACC GAGGA G GAA A A A G G G GAAAGAAGGAAGGGAAAAGGAGGAAGGACAGAAAAGAGG AAAGACAAGAAAAGGAAAGGAAAAAAGAGGGGAGAAGECAGA GAGGGAGGGGAACCAAAAAAGGAAGGAAAAAGAGGAGACGCA G G G G A G G G G G A A G G A A G G G G C C G A GAA A A A A A C C A A A A A G A A A A A A A A A $\mathcal{A} G G G G G G A G A A C A G G G G G G A A A A G A G G G A C A A A G G$ AAAAAGGGGGGGGGGGAAAAGGGAGAGACACCGAGAACAGAC CAAAAAAAGAGGAAGGGGCCAAGGAAGGAGGGGGAAAGAGAA G GAGGGAGAAGGGACCCCAGGGAAAAAGGGAAGGGGGGCAAA G G G G G A A A A G A G G GAACCGGGGGGGGGGAAGGCCGAAAAAAA AAAAAAGGAGGAGCAGGGCAGGGAGGAAGGGGAAGGGGAGAA A G GAAACCAACACAGGGGGGGGAAAAGGGGAAAAAGAAAAAA GAGGAAGGGGGGGAAGAAGGAAGGAAAACCAACCGGGGGGGG ACAGGAGAAGGAAAGGGGAAAAAAGGAGCAGAGCAAGGAGAA
 $G G A A A A G G C C A A A A G G G G A G C C G G G G G G G G G G G G A A A A G A A C$ $A \subset A C A G A G G G A A A G A A G G G G C C A G G G G G C C A G A G A G G A A A A A$ G G G G G G A G G G G G G A A A A A G G G G A A A A G GAGGGGA GA G GAAA A G G GAGGGGGGGGGGAAAACCCCGAGGGGGGGAACAACCAGGG G G G A C C C C A A A A A A G G GACAGGACAAGAGGGGGAAA G GA GA G C C G A G G G G A A A A C C G G A A A A C C G GAGCCAAAAAA G G G GT T G G G G G GAGACGGGGCCACGGAAAAAGCCAAGAAAAAACAGGGGG GGCCAAAAAGGAGGGAAGAAGGAAAACCAAAAGGAGAAGGGG AAGAAGACGAGAGGGAGGGGGGAGAAACGGAAACAAAGAGGG A G GAA A A C G A G G A A G G G G A A G G G G GAC C G A G G G G G G A G G A G G G GAACCCCGGGGAACCGGGGGGGGAAAAAAAAAAGGGAAAAA A A A A A A C C G G A A A A G G G G A A G G G G G G C C G GCCAAAA A G G G C C A A C C A A A A G G A A A A C C G G G GCCAAGGAACCGGAAAAAAAGAA ACAGAGGAGAGGAGGAAGGGCAGGAAAGGAAAAGGGGAGGGA A G GAA A G G GAGGAGAAATGGAGGGAAAAAAGGAAGGCAAAGA G G G G A A A A G GACAAAGCCAAGGAACCAACCAAAGAGAAGAGA
 A A A A A A A A GGCCAAGGAAGGGGTTAAAAAAAACCAAGGGGGG A A A A G G A A G G G G G G A A A A A A $\mathcal{A} G G G G G G A A G G G A G A A G G G A C B A$ A GAGAGGGAAAGCACCAAAAAACCCAGGGGACAGCCAAAGCC AAAGACGGCCAAAAACGAGGCACAGGAGGAGGAGAAGAGGGG C C T T G GAA G GAAAACAAAAAGGAGACAAGGAAAGCCAAAA G G $A A C C G G G G A A A A A A G A G G A A A A G G G A A G A A G G G G A G C A G G A G$ AACAGGAGGAGAGGACAGGGAACCAAGGAAAGAAAAAGAAAA G G GAACGCGCAGGAACCCGGAAGGAAGGAGAGGGAGAAAAGA C C A G G GAGAAAAAGCCGGAAACAGGGGGAAAGGGGGAAAAAG A G G G A G G G G G G A A G G G C C A G A A A GA G A A GAAA A A GA GA GA G G G G A A G G G G G A G A A C G A A G G A G G G G A A G G G G G G G G A C A A G G C C CAGGGAGGAGAACAGGAAAAGAAGAGGAGGGAAACCGGAAGAA GAAGAAGAGAAAGGCCGGAAGGAAGGAAAGGAGAGGTAGAGG $A G A G A A G G G G G A C C A A A G A G A G G G A A A A G G A G G G G G G G G G G G$ GGCCAGAAGGAAGAGAAAAGGGAAAGAAAAGGGGGAGAAAAA $G G A A G G A G A A G G G C G A G A G A G G A A G G A G G A A A A A A A G G G G G G$ $G G A A A A A A G G A A A A A G G G A G A G C C G G G G A A G G G A A C G G A G A A$ ACAGGGAACAGAGAGGGGGGCAAGGGAGGGGAAAGAAAAAAA G GAGAAGGCCGGAAAAGAGGGAGAGGGGGAGGGGAGACAAAA

A GAGAAAAAAAAGGAAGGGGAAAAACAAGAGGAGGGAACACC G G G G G G G G A A C C C C A GCCAGAAAGGGAAGGCCAGAAA GAA G G G G G G G G C C G G G G A A G G G G A A G G A A A A G G G G G G A A A A A A A A A A G G G G G G G G G G G G G G A A G G G G A A A GAA A A A GAA A G G G A A G A G G G G GACAAAAAAAGGAAGGAGAAGGAAAGAGCCGAGGGGAGGG G G G A G GCCAGGGAAGAGGAAGGCCGGAAGGAAGGAAAGAGAG GAAAGAAAAGGGGGGGGGGGAAAATACCCCGGGAGAAAGGAG AGAAGGGGAGAGGAGACCCCACAAAAAAGAGAGGCCAACCGA GAAA $A \operatorname{A} A A G G G G G G C C G G G G A G A C G G G G G G A G A G A A A A G G G G$ AAAGCCCCAAAATTAGAAAGCAAAGAAAAGGGAAAAAAAAAA AAAGGGAGAAGGGGCCCCGGAAACGGAAAAAAGGAAGAAAGG A A A A G GA GACAGGAGGACAGCCAGAAAAGAGAGAAAAAGGCC A A A G A GAA $A \operatorname{GCC} G G G A G A A G C C G A G A G G G G A A G G G G G G G G G A$ GAAAGGCCGGAAGGAGGGGGGGGGAAGGGCGAAGAGCAAGGG A G G G G G G G G GAAAAAAAAGAGGGGCAAGGGGGGGCCCCACCC AAGGCCAAACGAGAGGCCCCCAAAGAAAAGAGAGCAAAGGGG C CAACCGGACGAAAGGAAGGACGGGAGGAAAGCCGGGAGGAC T TAGAAGGGAACGGACGACAGAGAAAAAGGAAAAAAGAGGAG A A A A A A A ACCAGAGCCGGAAAAAAAAAGGGAGGGAGGGAGAG A G G G G A G G A A G A A A GAGAGGCC GAGGAGGGAAAAA GAAAAAA G G G GAA A ACAAGGGGGGAAAGAAGGGAGGAACGGAACCAATA C C A G G G A A GAGGAAGAGGGGGGAGGGAAAAAAGAAAAAAGGG G G G A T T C C A G A A A G G G A A A A C CAC GAGGGGAGGGA GAACAC C G G A A G A A C G GCCCAGGGGAAAAGGTTACGAGGAAGGAAAAAG C A A A A A A C G G G G G G A C G G A A A A A A CA $A \operatorname{G} G A G G G A G G G G G G A A A$ GGCCAGCCAGGAAGGGCCAAGGAAGGCAAAGGAAAAGGAAGG G GAACCAGAAGGAGAAAGGCCCAAGGAAGAAAGAAGGAGAAA GA $A \operatorname{GA} A A G G G G G A A G G A A A A G G G A G G G A G A C C G A A A G G G G G A$ G G G A G A A A G G G G G G A T G GC CA G G G G GAA GAAAGGGGGGCAAA G GAAGGAAGAGAGGAGGGCCAGAAGGGAGAGAAGAGGGAGAC G G G A A A G G A A A A G G A A A G G G G G G G A A A A A TAGGGAACAAAAA G G A A A A A A A A G GAACCAAAAGAGGAAGGGGCAAACCGGGGAC A G G G G G T TAAAAAAGGAGCCGACCAAGGCAAAAAGGACAA GA ATAAGGGGAATTAACCGGACAAAAAGGGGGAGAGAGAAAAGA A A G G G G G G G G A A A A A A A A A G G G A A A A CAA A A A A G G G A A A A A A G GCC G GC G A C G G G GAACAGAGGCACCAGAAGGGGAAGGAAAC G G TA $A \operatorname{GA} A G G G G A A G G G G A A A A A A G G A A A G G G G G A A G G A A A A$ GAAAGGAGAGACAGAAAAAACCGGGAACAGGGAAAAAGAGGG GAAA A G G G A A G GAA $A \operatorname{G} G A A A G A G G A A G G G A A G G A A A C A G G G A G$ GAAAAGCAAAAAAAAAGGGGAAGGCCAGAAAACCBGGAGGGG G GAGGGGGGGGACCAGGAGGGGGGGGGGCCAACCAGAACAGB A A A G C C C A C A C C C G G G G G A G G G G G C C A A A A A A G G G G G G G G G G A GAGAAGGAGGGCGAAACACAAAAGGGGGGAGAGAAAAGAAC A A A A G A A C G GCAAAGGGGCCGGAGGAAGGAAAGGGAAAAAGA A A G G G A C C A G G A G G G G G A G G A A G G A A G GACAA A A A GACAA G G
 G G G GCAGAGGGGAAGGTAACACAAGGAAAAGGGAAAGAAGAG AAACGGGACCAACACGGACCCCGGAAGAGAGGAAAAAAAAAG GAA A A A A A G GAAAAGGGGGAGGAAGGAAGGGGAACCCCAACAA $A G C C G A A A G G A G G A G G G G G A G G G G G G G A G A A G C C G A A A C A A A$ C C G G C A A C A A A A G G A A G GA A G G G G G GCCGGGGAA G GA GAGCC $G G A A A A G G G G G G G G A A G G A A G G A A G G G G G A A C G B A C A A G G G G$ G G A A G A G G A A G G A G A G G G A GACAGGGACAAAAGGGAAA G GA G CAAGAGGGGGCCGGAAAAGGGGAAGGAGGAACAGAGGAGGCC G GCAAGAAGGAAGGAAAAAAGACAGAGACAAAAAAGCCAGAG C A A A A A A A A GAGGGGGGGAAAGAGAAAGCCAGACAGGGAAGBG A GAA A G G G G G A A A A A A GAGAACAGCCGGCCAAAAGGAAAGCC A G G A A A A A G G G G C G A A G G G A A G G G A G A G A G A G G A A A G G G G G G $A A C A G A G G G A A G C C A A A G A A G G A G A G G G G G G G G G A G G G A A G G$

A G GAGAAGAAGGGAGGAAAAAGAAAACCAGGGGGAAAGAAGG $A G G G G A G G A G A A G G G G G G A A G G A A A A G A A G G G A G A G A G A A C C$ A A A G A G A G A G G G G G G G A C A A A A A A A A G GCC G G G G A A A
A G G G GAAAACAGAGACAGAAAGAAGGGACAACCGGAAGAAA $C \subset A C G A G G A G G A A G G C A A C C A G A A A A G G C A G G G A A A A G A G A A$ G GAAAGCCGGAAGGGAAGGGGGAGGGGGAAAAAAAGGAGAAA GAGGAGGGAAGGAAAAAAGGGGGGGGGAAAGGGGGAAAAGAA AAAAGGAGCCCCCCGAGGCAAAGGGAAGACAGGAAAAAAAAG A A G GCCAGAGGACCAAGGAGAGAGAAACGGGGGGGAGAACBG $A G G G G G A A G G C C A G A G G G G G G G G G G G G G G A G G A G A A A G G G G A$ C C G A G A A G G GC C A GAA A G G G G G C C G GAGAAAA A G T T G G G G A G GAGGAAGGGGCACCCGAAAGAGAGGAGAGGAAGGAACAAAAG G GAACCAAGCAAAAGGGGAGAGACGGAACCCCGGGAGGAAAA
 A GAGGGCCGGGGAAGGAAAGGGAAGGGGAAGGAAAAGGGGAG $C \subset A G A A A G A A G G G A G G A G G G A A A A G G G G C C G C G A G G A G G G A G$ A GCCAGAGGGAGAGCCAGCCGGGGGAAGAAGGAAAAGGAGAA C C G G G A C C A A G GCCGGCCGACCGGGGGAAAGGAGAAGGGGAA A GAGAGAAACGGGGAGAAGGAAAAGGAGAGGAAAAGAAACGG G G A A G A C A A G A A A G G G G G G G G G G A A A A G G G GA G G G G C A T A A G AAGGAAAGCAAGCCAAAAAGGGGGAAGAACGGGGAAGGGGAG A GAGCCAAGGGAGAAAAAGGGGAAAACCGAGGAGAGCAGAAC G GAGAGGGACAAGGGCGAAGGAAAGGAAACGAGGGGAGAAAG $G G A C C A A G A G A G A G A G G G A A G G G G A A A A A G G G G G G G G G A A A A$ A A A A A A A A G G G GAGGGAGAAAGAGGGGAACGGAGAAAACCAA

 AAAA A GCCGGGGCCGGAAAAGGAAAAGGCCAAAAGGGGGGGG A A A A A A A ACC G G G GCCGGAAGGAAGGAACCGGGGCCGAAAAA AAAAGGGGAAAAAAAAGGAAGGGGTTAAAAGGGGGGGGAACAC T TCCAAAAAAGGAAAAAAAAGGAACCGGGGGGCCAAGAAAGAG G GAAAAAAGGCCGGGGAACCGGAAAAAAGGCCGGAAGGAAGA
 C C C C G GAAAAGGGGAAAAAACCGGAAAAGGAAAAGAAAGGGG A A G G G GAA A G G G G G A A $\mathcal{A} G G G G G A A G G C C G G A A G G G G A A G G A A$ A A G G A A A A A A A A A A A A A A GGGGGGCCCCAAGGGGAACCACAA AAAAAAGGAAAACCAAAAAAGGAAAAAAAAGGAAGGAAAAAA AA G GAAAATTAAAAGGGGGGAACCCCGGAAGGAAGGAAGAAA G G G G A A A A G G G GA G G A A A A A G G A A A G A G G G A A C C A A A A G G G G A GAA $A \operatorname{GCA} A A A G G A G A A A A A A A A G G G A G A A A A G G G G A A C C G G$ C CAAAAGGAACCCCAAGAAACCAATAAGGACAGAACGGGGGG G G G GAGGAGGAAGGGGCAAAAAGAGGAAGACCCCAAGGGGGG G G G GAAAAAAAAGGCCCAGAAGGAGGAAAAAAAAGGGGAAGA AAAAAACCAACCAAGGGAGGGGCAAGGGAAGAAAAGAAGAGA G GAA $A \operatorname{G} G A G G G A A G G G A A C C G G A A G G G G A G G A C C G G G G A A G A$ CCGAGGGGCCAAGGAAAACCGGAAAAGAAACGCGGGAAAAAA A A GAGAGAAGACAAAGGAGGAAGGAGCCGGGAAAAGAAAGAA
 G GAAGAAAAAAGAAGGAAGGCAGGAAAACCGGAGAGAAGGAG GAACAAAAAAAAGGAAAGAAGAGAGGCCGGAAAAAACCBGCC
 $C \subset C C G G A A G G G G G G A A A A A A G G A A A A G G A A G G C C G G G G A A G A$ G G A A G G A A A A G G G G G G A A A A G G G G A A G G G G G G T T A A G G C C A A $G G C C A A A A G G C C A A A A A A A A A A G G G G A A A A A A G G G G A A G G G G$ $A A G G A A G G A A G G G G G G G G G G G G G G A A G G A A A A G G C C A A G G G G$ A GAGAGACGAGGACAAGAAAAGGAAGGACAAAAAAGGGAGAA $G G A A G G G G C C A A A A A G G G A A A A A A A G C A A G A C A G A C C C C G A G$ $G G A G A G A G G G A A G G G G G G A A A A G G A A G G A A C G G A A G A G A G A A$ G GAAACGGAAAAGGAAAAGGTTAAAAAAGGGGGGGGGGGGAG

GAAAAAGGAAAAGGGGAAGGGGAGAAGGGGAAGATTACAAGG G G G A A C G A C C T A A G GAAAA $A \operatorname{AGGCCAAAACCAAGGACCCGGGG}$ A A G G GAGGGGGAGGGGCCAGGGAAAGGAGGGACACCAGACAA GAAGGGGGGAAGGGAGGGGGAAAAGAAAGGCCAAGGCAAAGA G GAAGGAAAGAGGGTACGCCAAGGGGAAGGAGACCCCCCCAA A GAGCCGAAAGGACAAAAAAAGAGAAGGGGGAGGGGAAAACC G GCCAGAAACAGCACGAGGAGGAGGGGAGGAAAAAGGGAGAG GGCCACGGGAAAAGGGAGGGAACCCAAGGGAAAAAGCCAAGA AAAGCCGGAAGGGAACGACCGACCAGGGGACCGAAGACGGGG AGGGGGCCAGGAGAGGGAAAGGAGAAGGGGAAACAAGACAAG G GAGAGCAAACAGGAAGAGGAAAAGGTTCCGGGGACCCGGGA

 AC G G G A A G G G A G G G A G G G A G G G A A G G A A A A G G G G A A G A G G A A AAAAGGAGAACAAGGAAAGGACACGAGGGGACCAAAGAGAAC A GAGGGGGAACAGGAGAGAAAAGGCAGGAAGGGGGGGGAGGG GAACGAAGAACCGGAACCGGAAGGAAAAAAAACAACAAAGEG CACCAGGAAGGGGGGGGGGGGGGGAAAAGGCCGAGGAGAGCA GAGGGGAAAAGGGGGGGGGGGAACGGAAAAGAGAGTTTAGAA A A G GAAGGCCCCGGCAAAAAAGAAAAAAGGGAGGGGGGAAGAG AAGGGGAACAGGCAGGAAGAAAACGAGAGGACAAAAAAGGAG $C \subset C \subset A C G G A G A G G G C C A G G A A A A C A A G G G G A A A C G A G A A C G G$ G G A A A A A G A A G G G A A CAAAAGGGAAACGAGGAGGAGAACAAA A G A A G A A G G A A A G A GAA A A A G G G G G G A G G A G G C A A A A A G GAC A A G A A G G A A A G A A A G G A A C C G G G A G G A A G G A A G G A A A A A G C C C C G G G A A A G G G A A A G G GACAAAAACCGGGGCCAGAAAGAGAA G GAA A G G G A A G G G G G GCAC CAA A G G G GAAA AAA AA G GAA G C C A G G G G A G GCC G G G G C C G G A A A A A A C C A A A A G G G G G G G G C C G G G G G G A A A A A A G GAAAAAAAAGGGGAAGGAGAGAAA GA GA GAA G G G G A A A C G A A G G G G G A A G G G G G G G G A A G G G G G G A A A A A A $G$ G A A A A A A G G G G A A A A A A G G A A G GAAAA $A$ A G G GAAAAAAA G G G G A A G G G G G G G G G G G G G GAA $A \operatorname{GGGAAAAAAAAAGGCCGGAGAAAAGA}$ G G A A A A A G G G G A G A G G G GCCGGGGGAAACCGGAGGGAAAGCC
 G GAAA $A \operatorname{A} A C C A G G G C C G A G G A A T T G G A G G G G A G G G G G G G G G G$ C CAA A A G G G GAGCCAAAACCGGAAGGAAAGAAGAAGAGACGG GAAGAGGAGAGGGGAACCGGAAAGAAAGAGGGGGGGCAAAAG $C \subset G G G G G G A G G G A A G A A A G G A A A A G G G G G G A A G A G A G G G G A C$ $A G C C G A A G A G G G G G A A G G G A A A C C G A C G G A A G G G G C A A A A A G$ A A A G G G G G T T G G G G C C A A A A A A G G G GAAAA A G G G A A G G A G A G A G GAGACCGGGGAAGGGGGAACGGGGAAAGAAGGGAAAAAAG G G A A A A A A A A A A A A A A A A G GAAAA G GAA G GTTGGGGGGAGAA A A A A G GCC C G G G G G G GA A G G G G G G G G G G C C G G G G G G C C G G T T C CAA $A \operatorname{GAA} C \subset A A G G C C G G G G A A G G G G A A A A G G A A A A A A A A A A$ G GAAG $A$ GAAGGAAGGCCAAGGAAAAGGGGGGAAAAAAAAAAAA A A G G G GAA A G A A A A A A A A $\mathcal{A} G G G A A G G A A C C G G G G C C G G A G A A$ G GCCGGGGAAAAAAGGAAGGGGAACCGGAAGGCCCCAAAAGG
 A A G G G GAA $A \operatorname{GA} A A A T T C C G G G G G G G G C C G G A A A A A A A A G A G A$ G G G G G G G G G G G GAACC GAGAAACCAAGGAAAAGGAGAAAGAC A A A G G A A C G GCAGGGGAGAGAGGGAGAGAAGAAGAGAGAGAA A GAAGGAAAACCCCGGGAGAGGGAAGAAAAGGAACCAAATAG G GAGGACAGAAAGGCCGGGACGAGAGAGAGGGGCAAAAAAA G GAGAGGGAAAGAGGGGGAAGGGGGCAGAGAAAAGACAAGAA A A G GAGGGAAGAGAGAGAAGAGAGGAGGGGCACCACAAGGAG

 GAAGGGAAAAAAAAAAAACCAAAAGGGAAAGGGGGGAAAGAAA $G G C A A A G G G A G G A G A A A C A A G G G A A A G G G G A G A G G G G G A A A A$

G GAGAAAAGGGAAAACAGAGAAGGGGAGCAGAGGAACCAAGG A A A A A A G G A A G G G G G G G GCCGGGGAAAGAAAAAAAAGGCCCA G G G G G C C C G G A GCC G G A G G G G C A A G G G A G GACA $\mathcal{A} C G A$
AACGAAAAAAAAGGGGGAGACGGAGGAAGAAAAGAGGAGCC A G G G G GAC G GAAA A A A A GAGGAAGGAAGAGGGGAAGCA G GA G A A A A G A A G G A A G G G G G A G G G G G A G G G A G G A A G A A G G A A G G A A GAGAACGAGAAGAGAGGGGGGAAGGAAGAAAGACAAAACAAG GGAAAGACGAAGGAAAAACCCAGAGGAGAAGGAAAACCAGGG A A G G A A A A GA G GCA A A G G A A A A G G G G G G G GCC G A G A G A A G G G GAAAGGAGACGAGGAAGGAGAGAAAAAAGGGGCCAAGAAGAA A G G GAA A GCCGGAAGGCCGGAAGGAAGAGACAAGAGGGAGAG G GAGAAGGAAGGGGGAAGAAAGGAGGAAGGGGAGGAGACAAA GAACGACCGAGGAAGGCCAAAGGGAAAGGGGGGGAAGGGGGG AA $A G G G G G C C A A A A G G G G G A A A A C G A A G A G A G A G G G C C G G A G$ A G G GAA A GAGAAAGAAAAGGGGACAAGGCACAGGGGAAGAAG CCAGAGGGCGAGGAAGCAGAGGGGAAAAAAAAAAAAGGAGAA G G G A A G G A A CAGGGAAGGGGAAAAGGCCAAAACCCCAAAAGB G G G G A A G G TAGGGGAAAAAGAAGAAAGGGAAGAAAAAACCAC G GAAGGAAAGAGGGACAAGAAAGAGGAGAAAAAAACCCCCGG A G G G C C G G A A A A G G G G G G A A A A A A A A A G G G GAA A G A G G G A A G G $C A C C G G C A G G G A A C G G G G A G A A G G G G A A G G G G G G G G G G A A A G$ A A A A GAGGGGAAAGCCAGGGAGAAGAGGAGGAAA G GAAGGGGG $A A G G G G A A G G G G A G G G G A A A G A A G G G A A G G A A A A A G G A G G A A$ CATAAGGGGAGACCACGGGAGAAACCAACAAGAGAAAGAAAA A A G G A A A G A A G G G G G A C A G A A A G G G G A T T T A G C G G G A G G C G A G GAAAGCCAAAAGACCGGCCGGAAGGAACCAAGGAAGGGGCA GAAAAACAAGAAACAGAAAAAGAACCGGCCAAAAGGAAAAAG C C A G G A G G A A G G G A A C G A C C A A G G A A A A A GAGGGAAAA G G T G GAACCAAGGGAGAGAGGCAACGAGGAAGGGAAACCGAGGGA G GAA A G G G G G GAGGAACAGACAAAAAAAAAAGAGGGAGAA GA A A GAGAAAAACCGAAGCCAAAAGGGAGAGAACGGAAGGAGAB $C \subset A G A G A G A A A A T T G G G G C C A A G G A G A A G A A A C C G G A A G G G A$ A GCAAAAAAAAAAGCAGAAAGAGAGGGGGGAGACAGAGATTA A A A A A GA GCCGGAAAGAGGGAATTGAACGGGAGGGGGGAGAA GAGAGGAAGGAACCGAAGACAAGGCCAAAGAAAAAGGCGAGG G G GAGGAAACAAAGCGTAGGAAGAAGGAGGAGAAGGGAGGGG AAAAGACCAGGAAAGGGGCCGGGGAAAGGGGACAAAAAGAAA AGAGCCCCAGGAGGAAGGAACCAGAAAAGAACGCGAAAAAGA A A A A A A A A A A A A A A GAAAAAAAAAAAGGGGGGGGAAAAGGGG AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAAA AAGGAAGGAAAAGGAAGGAACCGGAAAACCAAGGGGGGAAAA G G G G A A A A $\mathcal{A} G A A G G G G A A G G A A G G G G A A G G G G G G A A G G A A A A$ AAAAGGAAGGAACCGGGGGGGGAAAAAAGGAAGGAAAAGAAA G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A A $G G A A C C A A C C G G G G A A A A G G G G G G A A G G G G G G A A A A G G G G G G$ C C C C A A A A G GAAAACCGGAAAAAAAAGGGGGGCCAAGGAAGAG A A G G A A A A G G A A A A G G G G C C C C A A A A G G G G G G G G A ACAAAC C G GAAAA $A \operatorname{A} A A \operatorname{A} G A A A A A A A A A A A A C A A A G G G G G G A A G G A A C A$ AAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACAAACCGG AACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG G GAA $A$ GAA $A$ GAAAAGGCCAAAACCAAAACCTTGGGGAAAAAA CCGGAAAAGGGGGGAAGGAACCAAGGGGGGCCAAAACCAAGAG
 A A G G G G G G A A G G G G G G G G G GC C G G G G G G C C A A A A G G G G G G G G A A A A A A A A A A A ATTAAGGGGAAGGCCAATTAAAAAAAACCAA A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAA G GAAACCGG G G G G A A T T G G A A A A G GCCCCCCAAAAAAAATTAAAAG GAATT
 AAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCAGAA

AAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAAGA A G A A A A G A GACAAATAAAAAGAGGAAAAAAAACCAAAGAGAA A GAACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGGAA AAAAGGAGAAGAAGAAAAGGCCCCGGGGGGAGGGACAAAAGG G G G GACGGAAGGAAAACAGGGGAGGGCCCCAAGGGGCCGGGG G GAAACCGGGCCGAGGGGAGGAAAGGGGGGAGAGAGAAAGAG A A GAAAAACCAACCGGGGCAGAAGGGTTAAAACA GAGGGGAC AGGGGGCCAAAGAGAGGGAAAAAAAAAACAGGGAAGGAGGAA $G G A A A A G G A C G G A A A A G G A A G G A A A A A G A A A A A A A G A A A G G G$ $C \subset A G A A A A G G G G A A G G A A G G A A G A A G A C C C G G A A A G A A G G G G$ A A GAGAAGAAGGGGGACCGAAGGGAAGGGGAGAAGGAGAAGA A A A A A A A A G G A A A A C C C G G G G GAC $\mathcal{A} G G G G G G G G A G A A A G G G G$ A A G GCGGGGGCCGGAGAAACAACCAAAGGAGGGGGGGAAGAA AA $A \operatorname{GAAA} \operatorname{A} A A C C G G A G A T G A G G G G G A A A G A A A G G A C G G A G A G$ AA GAGAGACGCACCGGAGCCGGGGGGAAGGGAGAGGGACCGG G GAACAGAAAGAGAGACACAGAAGGAAGGGCCCCAAAGAACC G G T T A C A G A GCC G GAACCGGAAGGGGACGAAGCCGBAAAGAA C C CAA $A$ AAACCAAAAGGAAGGGGAAGGAACCGGGGGAAAAAAA GAGAAAGGAGAAAAGGCCGAGGGGAACAGGCCGGAAGGAAGA G G G GAACCGACCAGAAAAGGGGGGAAGGAACCAAGBAGAAGAG AAGGAAGGGGGGAGAAAGCAGGAAAGGGGCAAGGAAAGAAAG A GCCGAAGGGAAGGACGAAACGAAAACCAAAACCAGAAGGAA AACCAAGAGAACACAGCAACCAGGGGAGAGGGAAAAAAAGAA GAAGAGAGCCGGAAAAGGAAGAAGACAGCCAAGAGGAGAGAA A G A A A A G A G G A A G G G G G G G G A A A A G GCCAAAGGGCAAAAAAA GAGAGAAGGAAAGAAAGAGAAAGGAAAAGGGGGGAAAAGGAG AGGAAGCCAAAGAGCGCAGGCCAAAAGGAAAAGGAAAAAAAA GAAAAGGGAACCGGGAGGACGAAGGGACGGAGGAAGGGAAGA G GAGAGGGAAAAAGAAGACCAAGGAACCGGAAGGCCCCGGGA CCGAGGAAAAGGCCAGCCGAGGAAGGGGCCGGGGAAAGAAAG C C G A G G G G A G G A A A C A G G A G A G G G G G A A A A G G C C G A A A A G A A AAGGAAAGCAGGAGAAGGGGACAAGGGGAAAAAGAACAGGGA C CACCCTTCCACCCGAGGGGAAAGCAGAAGGAGGGGACAAAA G G C C A G A A GAGGGGGAGCGAAGGGAGGAGGACGAGGAAAGAA G GAGCAGGGGCCAACAGAAAAGAAGAGAGGGAAATTGAAGAG G G A A G A A A G G G G A A A G GACAGGAAAAGAAGAAAAAA AA A A A A A A

 A GAGAAGGAAAAGACAGGGGAAAGCCAAGGGGCCAAAAAAGG GAA A G G A A G G G GAGGAAGGGGGGGAAAAAAAAAAAAGAACAA A A G GCCGGGGGGGGGGGGGGAAAAAAGGTTGGAAAAGGAGAA G GAAGGAAAAAACCGGGGGGAAAAAAGGAAGGCCAAAA GAAA GGCCAAGGAAAAAAAACCGGGGAAAAGGAAAAAAGAAAAAGA CAAACCAGAAGAGAGAAGGAAAAGAAGGGGGGAAAAAAAAAA C CAA A GAGGGAAGGGAAAAGGAGGAAAACCAAGGGGAGAAAA G G G GCCAAACAAGGAAAAAAAAGAGGAGGACACAAAGGAGAA G G A G A G C G G G G G G G A G G G G G A G G G A A A A A A A A G G A A C C G A G G A GAA A GAAAAAAGGGGAAAAAAAGAAGGAAGGACGAGAAAAA T TAAAACCCCGGGGGGGGAAGGAACCGGGGCCCCCAGGTTAG A A G A A A A G A A A A G G A G A G GAGGAACCGAAGAGAAAGA GAGA G GAGGATCACGGGGGAGAACAAGGGCCGGAGAAAAGGGGAAGG $A G C C A A G A G A A G C G A G G G G A A G G G G G A G G G A A A A A A A A A A A G$
 G GAAAAGGAAGGGGGGGGGGGAAAAAAACCAAAAAAAAAGGA GAAAAAGGCCCAGAGGAAACACAACCTTACGACCGGGGAAGAA GAAAAGGGAGGAAAAGAGGAAAAGGGGGAGCCGGAAAAAGGA AACCAACAGGGGAAGAAAAAAAGGAAAAGAAAGGAGAGAGAA A A A A C CA GCCAAATGAAAGACAGGAAGAGGCGGGAAGGAA GA CAAACCGAACAAAGCCGGAAAAACAAGGCACCAABAGGGGGG

AACCCAAAGGAACAAAGAAGAGGAGGAAGGCAGGAAAAGGCC
 G G C C G G G A A A A A G G G G G G G G G A G G G A G G G G C C A A $\mathcal{A} A G$
G G GAAACAAGGGGAAGGGGCCGAGGAAGGGATTACGGGGGG CAAAAAAAAAAAGGAAAAAAAAACAGGGGAAAGGCCGGAAGAG A G A G A A G A G G G G G G A A T T C C G A A G GAA G GAAT GAAA G GAAC C A A A A A A G A A G G A G A A G G G G G A A G G A G G A A GAA $A$ A A A A $G A G G A G$ ACAAGGAGCCGAGGCAGGCAGGGGGGAACCGGAAAGACGGCC G G GAAAGGCAAAAAACAAAGGAAAAAGAGGAACCBACCAGCC AACCACACGGCAGGCCGAGGAGAGGGGAGACCCCGACAAGAG G GCCAAAACAAGAGGGAAGGGCAACGAGTTAGAAAGCCAAGB A G G GAGGAAGCCAGAAGAAGAGGAAAAAAGGGAAGGCCAGCC
 G GAAAGGCAGAAGGAGAGGGAGCCCCGGAAGGAAGAAAAAGG $C \subset A G G G A C A G A A C A G G A A G A G A G G G A G A C C A A G G G A G A A G G G$ C CAGAGGGAGAGGGGGGGGAAGAAGGGAGCGGGGCAAAAAAG AC G GAAAAGGCCAAGGCAGAAAAAGCGGAGAGGAAAGAAAGAG A G G G G G G G G G A C G G A A A GC C C C G GCCAC G GAGGGCCGGGGCC GGCCAACCAAGGAAGGCGAAGGACAGAAGGGAGGGAAAAAAG A GAACCGGAGACGGAAGGAGGAGGCCGGAGGAGACCAAGGCC $C \subset A A A A A A G G G A G A A G C C G G G G A A A A A A C C G G A A A A G G G G G G$ G GCCGGAAAAAAAGAAGGGGCCGGGAGAGGAACCGGAGGAGG GAGGGGACGAAGGGGGAAAAGGAGAGGAGGAACCGGGGAAAA A A A A G G G G G G A A G G GACC G G A A A C G A G G A A G G G G A A A A G G G G G G A A G G A G G G G G G G G G G G A G A G A C G A C C G G G G G G A G G G G G A G AAAAAAAAGGGGGAAAGGAAGAAGGGGGCAACAGAAGACGAA AAAACCTAGAAAAGCCGGGGAAGGGACGAGGAGGGGAGAGAC G G G A G G G G G A G G G A G G G G A A G G G G A A G G G G G G G G A A A G G G A A A A G G G GAA A A G G GAGGAAAACCGACCAAAAACGGGGAAGGAA G G G G G A G G A A A A G G G G A A A A G G T TAAG GAAA A A A A A A G G GA C $A C G G G G A G A A A G A A A G A G C A A A A A G G G G G G G G G G G G G G A G A A$ A G GAACAAGGGGGACGAAAAACAGACAAAAGGGGAGAGGACC GAAGAAGGACAGAAAAGGAAAAGGCCAGAAAAGGAGGGGGAT A G G G G G A A A G G GA TAAAACAGGGAACCGAGAAGAAGGAAAAG G AAAGGGGGAAGGGGAAAGCCCCAGAGAAAACACAGAGAAAGG C C G G A A G GCCAACC G G A A A A G GAATTAAGGCCAAGGACA A A G A GAAAAGGAGGGGGAAGGGGCCAGCAGGGGGAAAAAGAAAAG $A C A A A G G G C C G G A A G G G A A G A G G G A G A A A A C C G G G G G A A G A G$ A G A A G G G G G G A A G G G G A A GAGAAACAACGAAAGGAGGAAGAA
 A GTTGAGGAGAGAGGAGGAAAGAAAGAGGAGGAAAAAGAGAA A A G G A A A A G GCCGGGGAAAAGAGGACACGGGAAAAAAAAAGG A A A A A A A A GAGGAAGGAAAAAAGAGGGGGGGGAAAGAAACAA G GAACCGAAGGGAGGGAAGGGGGAAAAGGAAAGGCAGGGGCA T TATAGGGCCCCAAAGAACCGGGGAAAGCCGGGGAAACAAAA G G G G G G G G A C G G G A GCGGCCGGGAAGAAAAGAAAAACACAAA G G C A A C G A A C G G G G GAA A G A A GACAAGAGGAGGGGATAAA G G C GAA A G G G GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A C C A G G G A C G G G G A A A A A A G G A G$ GAGGGGGGAAAAAAAGAGGGAGGGGAAGAGAGGAAACACCAA G G G G A A A A A C A GAC CA $A \operatorname{GGGAAAGAAAGAGAAAAAGGAAAGGG}$ G GAAA A G G G GCCAA $\mathcal{A} A A A C A A A G G G G G A G G A A G G G G G G G G G G$ $G A C C A A G G A G G G G G G G A G G G A A G G A A A A A G C C G G A G A G A G G G$ G G G G G G G GAAAAAATACCAGAAAAGAGAGACAATGGGGAAGA G G G G G A G G A C A A A A A A CAAGGCGGACGGAACCAACCAACAAA GAAAGGAAAGGGAAAGGGGAAGAGGGAATTGGCCAAAAAAGA C C G G A A G A G G A G T T G G C C G GAAAAGGGGAAGGGGTTACAAAA A A G G A A G G G G G G A A G C GAGGCCCCAAACAGGGGGAAAAGGAA C A A A G G A A A GGGGAAAAACCGGACGGAAAAAAAAAAAAAAAA T TAAAGAAAAAGCCAACCGGAGACGAAGGAGGGGGGCCACGG

ATAAAGAAAAGGAAGGGGAACGAGAAGGAGACGGAAGAAGAA GAGGAGGGGAGAGAAAAAAAAAGAAAAAAGAGCCAGAAGGAA GACCAGAAAGAGAGGGGGGGCCAAAGTACAGGCCAAGAAAAG A A A A A ACCGGAAAAAACCGGGGGGGGGGGGGGGGGGCCCAAA G G G G G GCCCCAAGGGGAAAAAAAAAAAAAAGGAAGGGGGGGG A A A A A A G G A A A A A A A A A A G G T T G G G GAAAA G GAAAA G G G G A A GAAGAAGGAGAAAGCCGGAGCAGGAAGGAAGAGAAAGGAGAA GGGAAACCGGCCAAAACCCCCCGGCCACGGCCGAAGAAAGGG A ACCGGAAAGAAAAGGAGGGAAAAAAAGAAGGGGAAACAGGA A GAAGAAAAGCCGAAAAAGGAAAAGGCAAGGGGGGGGGAAAA

 A G G A G GACCGGGAGAGAGGGACAAGGGGAAAAAACCTXAAGG G GAACCGAGGGAGAAGGGGGAAAGGAAAGGCAGGAGAGCCGG AGGAGAGGAAAAGGAGATAAAGAAGGAACCAAGGGGAGACGG GAAGGAAAAGAGGGGAGGGGAAGGAGAGAACCGGAAGAAAGA G GAA $A \operatorname{GAA} A A A A G G G G A A A A A A G G A A G G A A A G G A A A G G A C A G$ GAGGAAGGAAGAAGGAGAGGAGAGAGAAGGACAGGAAAGGGG $G G A A G G A G A A G A G G A G G G A A A A G A G G G G A A T T C C A A A A G G A A$ AAAGAACGGGAGGGAAAAAGGGAAAGAAGGGAGGAAGAAGAA A GACGAAGAAGAGAGAGAGGAGCCAAAAGAGGGACAAAAACC G GAGAGAAAGAACAAAGAAAGGGGAAAGAGAAAACAAAAGAA G G GAA $A \operatorname{G} G A G A G G G G G A A A G A G A A G A A G G G G A G G A G C A G G G G$

 G GAAAAAAGGAAAAAAGGAAAGAAGAAGGAGAAACCTXAAGG AA GAGACCGGAGAGAAAAGAACACGGAAGGAAGGAAGCGGAC
 A A G G A A GACAGGAAAGAGGGAGAAAGGAACGCGCACACAAAAA CCAAGACGAAAAGGGGCCAGAAACAAAGAAAGGGGGGGAAAA T T G G G G G A G G A A G G A G G G A G G G A C A C A G G A G G A A A C G G A G G G $C \subset G G A A A A A A C C G G A G G A A C G G A A A A A G A A C C A A A A G A A C A G$ A GATAACCGAAAAGAAGGGGAGAGGACAGGGAAGAAAGCGCC A A GAGAATAAGGAGGGAAAAAGAAAAAGGAAGGAGCGAAABAA GAAGAAGGAGAAAAGGAGCCAAGACCAAGAACAAGGGGGGAAA G G G G G A G G G G G A A G A G G A G A A G G A G G G A G A C C A A G G A A A G G A AAAAGGCAGAAGAGGGAGGGGAAGGAGAAGGGGGAAGGGGAC AACCGGAGAAAGAGAAAAAAGGGGAAGGGGGGGAGGCCAGAA G G A G A A A A A G G A G G A A A A A A A GAGGGAAGGAGAGCCGGCC G G G G GAA A GCCAAGGGAAGGGAAACAGAAAGAAGAGGCAAAAA AACCAGGGGGAAAAGGCAGGAAAAGGGAGAGGGGAAAAAAAA G G A A A A C A A A G GAACCAGGGACGGGGAGGCAAGGGGACAAGB G G GAGGAGAGAAGGGGGGAAGAAACCACGGAAAAAAAGAAGG AAAGCAGAGGGGAAGGGGGAGAAGACAGGAAAAAGGAGAAAG AAAAGGGGAGGGGAGAGAAAGGAAAGAGCCGGGGGACCAAGG G G G G A A G GCCAGGAAGCCAGACAAGGAAAGCCAAAAAAAAAA GAACGGCCCCGGAAGAGGAGGGCAAAGAAGAAAAGGAAAAAA G GAAACACGGAGGAAAAAAGAAGGGGAAAAGGACAAGGAGAA AAAAGGGGAAAAAAAGGGAAAAGAGAGGATAGAAGGAAAAGG $A G G G G G G G G G A A G G A A A A C C G G G G G G G G G G A A A A G G A A G A G A$ G G G G G G A A G GAA GAACAAACGGACGGACAAAAAAGGCCACBG A A A A A A G G A GAAAAAGAAGACAAAGGCCAAGGGGAACCAGAG A G A G G A A G G G C C G G G G C C G G C C G A G G G G G G G G G G A A G G G G G G CAGGGAGGCCGGAGGGGAAAGGAACCAAGAAGGGAGAAGGGG AA GAAAAAAAGGAGGAAAATGGAAGAAGAAGAGA GAAAAGGG

 A A C C G A A C A G G A G A G G G G G G G G G G A A A A A A G G C C A A C C G A A C A GCCGGGAAAGAAAGGAAGGGAAGAAGGAACCAACCCCAGAG

AAAACCGGGGGAGGCAAGGGGAAGAGAAAAAAGAGGAAGGCC G G GCAAAATTGGAACGGGCACCGACAAGGGAAAAAGAACCBG A A A A G G A C A A G G G G A G G G A A G G G GCCAACCACGGGGG
G GAGGGAGGCCAAGGGGGAGGGAGGTAGGAGGGCAAGAGGG AAAGAGGGAACCGAGAAGGAAGGGGGGGCCGGAGCCGGAAAAA A A A G A A G G A G A GAA A A G G A GAAAACCGGGAGAGGAAGGAA GA A A A A G G G G A A A A G G G G C C G A G G G A G G G G A A G A A G A G G G G A G G GAAAAAAAAAAAGGGAGGCCCCAGAGAGGGGAAACCAGAAAG AA $A \operatorname{GGGA} G A A C C G G A C G G A G T A G G G G A G A C G A A A G A A A C A A A$ $A G G G G G G A G G G G G A A A A G A G G A G G G G G G A A G G G G G G A G A A G G$ G G G GAA $A \operatorname{GAAA} A A A A A A A A A G A G G A G G G G A A A A G G G A A A A C A G$ GAGACCGGGGGAGGAAGAGGAAGGGGGGAGCAAAAAGGAACC G G G G G A A A A A C C G A A A A GACAAAAGGAAGGGGAAAGCAGA G G A A A A G GAA A G A A G G G G GAGGGGGGCCGGAAGGAAGGCAAGAA A GAGGAGGGAAAGAAGAACCGGCCGGAAAAAAAAGGGGAACC A G G A A GAGATGGCCGGGGGGGGGAAAAGAACCAAAAAAGGGG
 A A A A C A A A G G G GAA $A \operatorname{GGG} \operatorname{GA} A G A G G A A G G A A G G A C C C G G G G G G$ AAAAAAGGAAAAAGAGAGCAGAGGCCGAGAGAGAGAGGAABAA G GCCAAAGGGAAAAAAGAGGGAGAGGAAAAAGGGAGGAAAAA GGCCGGGGGAGGACAGAAAAAAAAAAAGCCAAAGAACAGAAA CACAAGGGGAGGAAAAAGGAGGATGGGGACCCGGGGAAGAAA A A A A G A A G G G A A A A GAGGAGGAAAAAAAAAAGCCGAAAGGGG A A G G G G A A A G A A G A A A G G C C A A G G G G G G G G A A G G A A G G C G A A ACCCCCCCAGGACAAAAAGGAAAAAAGGAGGGTTAGCAAAAC G GCCAAAAAGGGGGAAAGGGGGGGGAAGAAAAA G GAAAGGGGA G G G G G GAAAAAAAGGGGGGGAAGAGGAAGGGGAAAGGGATAA ACAACCGAAGACGAAGAAGGGGGGAAGGAGAGCCAGACAAAG
 AAGGAAGAGGAACCGGAAGGACGGAAAAGGAAAAAAAGAACA GGCCGAAGAGAGAAGACAGAGGCCGGAGGGGGGGAACCGGGG $A C G A A A C C G G T T G G A A G G G G A A G C A A G G G G C C C C A A C C G G G G$ A GCGAGGAGAGGAAAGAGAAGCAAAAGAAATTCCGGGGGGAA CCGGGGAAAGAAGGCACAGAGGACAGGGCAAAGAGGGACAAA C CAAAAGGACAGGGGGAAAGCCGAAAGAAAAAAGAGGGAAAA A A G G A G A G A G G A G A G G A G G A A A A A A A C A G GA G A A G G C A G A G G G G G G G G G G G G GAGGGGAACCAAGGCAAAAAACAAGGGGAAC G
 G G A A G A A GCCAAAAGGGTTGGACAAGGAAAACCCCGAAAAA AAACAAGGCCAAGGCCCCAGAGCACCAGCCAAAGAGAAGGAA AAAAGGAGAGGAGGGGGGGGAAATAAAAAACAAGAAGGAGAA A A A G C A A A A A $\mathcal{A} G G G A A G G G A A A G G G G G G G A G G G A G G G A G G A A$ G G G G GACAAGAGAGGGGGAAGGGGAGAAGAGGAAAAAGGGGG C CAGACAAGGAACACCACGGAGAGAAGCAGAAGGCAAAGGGG G G G G G G G G G G G A A A GACAAA A $A$ A A GAGGAGGGGGAGAAA G GA A A A G GCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAAAAGG G G G GACGGAAAAATAAAGGAAGAAGGGGAGAAGAA GAA G GAGA A GAGACAGAAGGGGAAGGGGAAGGAAAAGGGGGGGGGAGGGA A G GA $\operatorname{A} G A G G A A A G G A A G G G G A G C C A A G G G G A A G G A G G A G C G G$ AGCAACGGGGAAAGACAGAACCAAGAAGAAGAGAACAAAAGB A A G G A A G G G G A A G GCCAGCCGGCCAAGGAAGGGGACAGGGAA A A A A A A A A A G A G G G A GAG G GAAA A A A GAGGGGGA GAAAGAGG G G G G G G G GAGGACAAGGGAGGAAAACAGGCAAGAACCGGGAAG A GGAACGAAAGGGGCCGGCCCCAAGGGGCCGAAGGGAGGAAA GAAGGGCCAGGAACAGAGAAAAAGACGGGGGAGGAAAGACAA AAGGCCGGGGAACCAAAAGGAAGAAGGAAGCAGAAGGGAGGA AAAACAGAAAGGGAAAAAAACCCAAAAAGGCCAAAAAGAAGG $G G C C G A C C A A C G G G A A A A A A A A A A A A A A A G G A A C C G A A G G G A$ GAGGGGAAAGGGCCAAGGGAGGGGAACCCCGGGACCAAGGGG

A ATTAGCCGGGGGGGAAAAAAGACAGGGAAGGACAAAAAAAA G GAGAGAAAAGGGGAACCGGGGCCAAGGGGAAAAAATXAACC AAGGAAGGAAAAGGAAGGGGCCAAAAGGAAAAGGAAGAAAAA AAAAAACCGGAAAAAAGGAACCGGGGGGGGAAGGAAGGACAA G GAA A GCC G G G GAA $A \operatorname{AGGGC} C A A G G G G G G A A A A A A C C G G G G G G$ G GAAAAGGCCGGGGAAGGGGAAGGCCAACCAAAAAAGGGGGG $G G C C A A A A A A A A A A A A G G G G A A G G A A G G C C T T A A A A A A G G A A$ G G G G G G A A G GAAAA A G G G A A G G G GAACAAAGGAAGGGGAGAA G GAAAAAAAAGGGGGGGGGGGGAAAAAAAAAAGGGGAAAAAA A A A A A A A A GGCCCCAAAAAAAAAAAAAAAAGGGGAAAAGGCC
 G GAGAACCAGGGGGAAACGGAGGAGGGGAAGGCCAAAGAAGG GGCCAAGAGGGACCAGGGGGCCGAGGGGCAAGAGGGGAAACC G G A A G G A A G G G G A A G G G G G G C C G G G G G G G GAA A G G G A A A A A A AAGGGGAACCAAGGGGGGAAAAGGAAGGAAGGAAAAAAAAAA G GAAAAAA A $A$ A A A A A A A G G G G G G G G A A A A G G G G G G G G G G A A G G
 GAGGAAAAAAGGAAGAGGAGGGCCGGAAAAAAGGAAAAGAGA $A G G G A G C A G G A A G A G A A A G G A A G G A A G G G G G A A A A G A A G G G G$ G G A A A GAA $A \operatorname{GGGGGGC} C A A G G A A A G A A G G G G A A A A A A A G A G G G$ AGGGAAGAGAGAAAAACCAAGAGGCCAAGGGGAAAAGGAAGAA GAAAAGAGCAGGAAAGCCAAAAGGGGGGGGAGAGAAAAAAAG $A G C C G G A G A A G G G G A A A G A G G A G G G A A A G G G G G A G G A A G G A A$ C CAAAAAGGAGAGGAGCAAAGGGGACGGAAAGAAGAAAGGGG A GAAA A A A A G GAAGGAAGGAAGGGGGAAGAAAAGAAAAAAAAA GAAAGGAAAGGGGAGGAAAAGGCCGGAAGGAAAAAAGGACAA GAGGAACCAAGGGGAAAAGGCCGGAAAAAAAAAAGGAACCCC A A G GAAAA $A \operatorname{A} A A \operatorname{A} G A A G G A A G G A A A A A A G G A A G G G A A A A G G G$ G G G G G A A A G GAGGAAGGAACGGCCAAAAGAAAGGAAAGAAGG AA $A G G G A A A C A A A G G A A G G G A G A G C C A A A A A A A A G A G G A A C C$ GAGGAGAGACGGAACCAGGGACGAACGAGGGGGAAAGGGGGG AAAGAAGAGGGAGGCAAAAAAGCAGGCGGGGGAAAGGGGAGG G GAAAAAAGAATGAGGAAGGAAAAAGAGGAGGGAAAACGGGG $A \subset A A G G A A G G G A A C G G G G C C G A G A G G G G A A A G G G A A G A A A A A$ G G G G A A A G A C G A A C A G G GACGGACGAGGCCGGAAAAGGAA G G
 G GAGGAAAGGAAGGAGACGAAGAGACGAAGCAA GAGACAGAG GAAGGACCGAGGGGGGGGAACCAAAAAACCAAGGGGAAAAAA G GAAAAGGAAAGAAGGAAAAGGAAGAGGGGGGAAAAAAGGAG
 AAAAGGAAGAGGAAAGGGAACAAGGAAAGGAAAGAGGGAGAA A A G G G A G G A A A A G G G A A A A A A A $A G G G G G G G G A A A C A A G G G G C C$ GAGGACAGAAGGGGCCAAGGCCACAGGGGAGGGGAGAGAAAA A G GACCAGCCGGAAAGAGGAAGGGAGAAAAGAACACAAAACA G GAGAGAGGGGGAGGGGGAAGGAGGACCAAAAAAAAGGAGAA
 AAAAAAAAGGGAAGGGGAAAAAGACAAGAGAGAGGAAAAAAA AAAAGGAGCAACAGGAAGGGGGGAACAGGACAGGCCAAGGAG AA $A$ A $G G C A A A G A A G A G A A A G A A A G G G C C G G A A A G G G G A A A A C$ A A G G G G G G A A G G G GAA A GAAAAAAAGGGAGGAAGAGGGAAGAA A A G G G G A G G G G G G A A G G G A G A G A A G G G G A G G G G G A A C C A A G G

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G G G G G GAAAAAAAAAACCCCAAAAAAGGAACCGGAAGGAAAA C C A A G G A A G G G G G G A A C C G G G G A A A A A A A A G G A A A A A A G G T T G G C C A A G G G G A A A A G G A A G G G G A A G G G G G G A A C C G G C
C G G G G A A G G A A A A A A G G G G G G A A A A A A A A G GAAC A A A G G G G $A A C C C C A A G G A A A A G G A A A A G G G G A A G G A A G G G G A A G G G G G G$ A A G G G G G G G G G G A A G G A A C C G G G G G G G G A A G G A A G G G G A A T T AAGGGGAAGGCCAACCAAGGAAAAAAGGAACCGGAAAAAAGG AAAAAAGGGGGGAAAAAAAAAAAAGGCCAAGGCCGGGGAACC A A A A G G A A G G G G G G A A A A A A A A G G G G G G A A C C A A A A G G C C A A AAAAGGAAAAGGGGGGGGGGGGAAAAGGAAGGGGGGAAAAGA AAAA $A \operatorname{A} A A A A \operatorname{A} A A A G G A A G G A A A A G G G G G G A A C C G G G G G G A A$ A A G G A A G G G G G GAAAA A G GAA $A \operatorname{ACC} C G G G G G G A A A A A A G G G G G G$ A G G G G G A A A G A C G A A A G GAA $A \operatorname{A} G A G G G A G C C G G A A G G G G C C G G$ AAGGAGGGAAAAAAAGCCAGGAGGAAAACCGGAAGGGAAAAA

 GAAAGGGGAAGAAGAAGAAAAAAATAGAGAAAACCGGAAGAA AAGGCCCCAGAGAAGGGGCCAGGAAGAGAAGGGGGAAAAAGG ACAGAAACGGAGAACAAAAAGGGGGGGGAGCCGGGGGGGGCC ACGGAGGGAAAAAGCAGGGGAAAAGACAAGAGAAAAGACAAA ACGGAAAAGGGAAAAGGGGGAGCCGGCCGGGGGGAAGGAAAG G G G GAAGAAAGGGGAAGGCCGGCCGACAGGAAAAGGAAACAA A GAA A A GAGGAAAAAAGGGGGGAAGCAGAACCGGGAGGAGCC AAAACCGGAAAACCGGAAAGGAAAAGGGGGACAAGAAAACAG GAAAGGCCGGCCCCCCAGAAGGGGGGAAGAAAAAAAAAAAGA GAAAAAAGGGCCAAGGCCAAGGAAAAGAGGAGGGAAAAGGAA ACAAGAGAAAAGAAAAGGAAGGAAGGGGGGAAGAAAGAGAAA G GAA A GAAAAGGAGGAAGGGCAGGGGAAAAGGGGGAAAAAAA CAATGGAGAAGGGGAAGGGGGGCCAAAAGGAAACCCAGAGAA AACAGGGACCACGGGGGGAAGAAAGGGGGAAGGGGAGGAGGG GGACCCCAGAAAGGGGCAGAAACCAGAACCAAAGGAAGAGAA G GAAAGAGGGGGGAAGAGAAAAGGCCGGGGCACACAAAGAAA $A C G A G G A A C C A G A G A G C A G G A A G G C C A G A A G G G G G G G G A C A A$ A GAA A A $A$ A A A $\mathcal{A} G G G A G G G G G A A A C G G A A C C A A G G A A A A A A A A$ A G A G G A A G G G T T A A A $\mathcal{A} G G G G G G A A A G C C A G C C G G A G G A A A A G$ A A A G A A G G CC G G A GCCAAG GTTGGGAGGAGGAAACAAA G GA G AAAAAAGGAGAAGAGAAAGGGGCCAGAACCAAGAGAAAGAAA GAA A A A A A G GA G G G GAGACAAAAGAGAAGGGGGGGAGGAGAA
 A A G GCCGGGGCCGGGGAATXAAAAGGGAGGAGGGGGGAAAGA A G GACAAAGGAAGAGGGGAACCGGGAAAAAAA GGGGGGGGGG A A G G A G G A A G C C C A A A G G G A G A G G G A G G G G A A G G G G A G G G G A GAAAAGAAGGAGAATACCGGTTAGACAAAGGGAAGGGAAAAA C CAAAAAAGGAAGAAGGCAAAAGGAAGGAGAGGAAACAAGAG G G A A G A G G A G G G G G A G G A G G A A G A A G A G G GA G G G G A G G C C G G AAAACCGGAGGAAAAGAGAAGGAGGAGAGGAAACGAACAAAA A G G G G GAAAAGGAAACAAGGAAAAGGGAAAGGTTAAAACCAT AAGGAAAGAAAACCCCGGAGAAAGCAAGTTAAAAAACCGGAA G GAAAAGGCCGGAACAACCAACAACCAGGGAACAAAGGGGAA GAGAGGAGGGGAGAGAAGAAGGAGAAGGGACAAAGAAAAA G G $A$ $C C G G G A A G G A G G A A A A G G G G A A T A G G C C G G G A C C C C A A A A G G$ C CAG G GCCAAAACXAACCGGGGAAGGAGAACC GAGGGGGGCC A G G G A A G G GAA $A \operatorname{A} C A G G G G G A A A A A G G A A G A A G G A A A A G G G G G$ CCAACCAGGGGGCCTTGGAGAACCCCCCAAAAGGAAAAAAAG GAAGAGCAAAAAGGAAGGAACCAGAAGGGGAAGGAAGGGGGG G G A A A A G G A A A A G GAGAGACCCAAGGCAGAGGGGAAGAAGGG GGAAGGCAAAGGAAGGAAGGTAAAGAGGAACCCCGGCAAAAA AAACGAAGGAGGGACCAAAGGGAAGGACGGACCAAAAACAGC $G G C C C C A A G G G G A A C C A A G G A G A A G G G A G G A A A A G G G G G G C G$

G GAAGGAGGACAGGCCGGAAGGACGCCAAGGAAAGAAAGAAA ACAAGAAAAAGACCCGGGAGGACAGGACCAAGAAGGCAAGAA AC GAAGGGAAAGAAGGAAGGGGAAAAAGAAGAGGAGAAACAC GACGAAAAGGAAGGGGAAAGGGAGGGAGGAGGAAAGAGAGAG G G G GAGGAGAAAGGAAGGAAAAAGGAGAGGGGGGAGAAAAAG A A A A A A G GCCAGAGGGGGGAGGAGAGAAGGAAGGAAAGAAAA G G G G A A G G G G G G G G G G G G G G A A G G A A G G T T G G G G C C G G G G G A GAGAGGGGGAGGAAAAAGAAGGGAAGGGGGCCAAGGGGAAAA A A G GAAAAAAAAAAAAAAAGAAAAAGAGAAGGAAAAAGAGAA GAAAGGAGCCGAGGAAAGAAAGGGGAAAAGGGCCGGAAGGAC AAGGAAGGCAAGAAAGCAAACAAAAAGAAACCGAGGAGGGGG
 AC G G G GAAAAAGGGAAGACCGGGGAAGGGGAAGGACGAGGCA GACCGGAACCAAGGGAGAACAAGCAGAAGAGGAAAAGCACAA G GAGAAAAAAAAAGAGGGAAGGAACCGAGAGGCCGGCAGAAG GAA A A A A A G GAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A A G G G G A G G G A A G G G G G G G A A A A A$ G G G A G G G G A A G G A G G G A G G A G G G G C C G G G A GA G G G G A A A $\mathcal{A} A G$ GACCGGGGAAAAGGCCGAGGAAGGCCAAGGGGAGACAGAGAG G G G GAGAAAACCGAAAGGGAAAAGGGCCGGGGGGACTACCGG G G G G A G A A A G G G A A A G A A G G A A A A A G G G A G GAAA A GAAC C C C G G G G GAAGGGAGCAGGAGAGGGGGAGAGCACCGGCACCAGGG ACCGCCAAAAGAGAACGGAGGGCAAAGGCCGGAGAAGGAAAA AAAGGACCGGAGGGCAGACCAGGAGGCCAGAAGAGAAGAAGA A A C A G A G G A G G G G G G G C A G G A A G G G G A A G G G A G G G G A A G G G G A A G A G G G GCCAAAAACGGAGAGAAGGAACCAAGGGGGGAGAA G G G G A A G A C G G GAC G G A G G A A G G G A A A G G G G G C C A G G G G G A A G GAACAAAAAAAGGCGAGAGGGCAAAGGCCGGGAAAAGGCAC $A G A C G G A G G G G G A C A G G A G A A G A G A G G G A A G G A A G G G G G G G G$ G GAGAAGAAACAGGCCGAAGAAAGGGCCAAAAAAAAAAAGAG A GAAA A $A \operatorname{AGGGGGGGGGAAAAAAGGGGAAAAGGGAAACAGGAG}$ A A A G A A A G A A G G G G A A G G A A G G G A G G A A A G G A G G A C G G G A A G G G GAACAGAAGGGCAAAAGGGGCCAGCCGGGGAGAAAAGGCC
 GAGGGGGGGGAGGGAAAACCGGAAGGGGAAAACAGACCAAAA A A A A G G G G A A G G A A A G G G C A A A A G G G A G G A G A A A A A A C G G G G A A A A C C G G G G A A C C T T G G A A T T C C A A A A G G G GAAC G CA A GAC A GAA $A \operatorname{GA} \mathrm{~A}$ GAGAGGGAAAGGATAGGAGGAAGAGGGGAGAAAA AAGGAGAAAAGGGGAGAAGGGGGACACCGAGGGGAAAGGAAA G GAGAGGAAAGGAAAAACACAGAAAAGGAGAAGGGGGACAAA G GAA A GAA $A \operatorname{GCC} C \subset G G G A A G A G A A A A G G G G G G G G C C A A G G A A$ $C \subset C A A C G A G G C A G G G A A G C C C C A G A A G A G A G A G G G G A G A A A G$ A G G G A A A G A A C C G GCCACAAGGGGAAAAAAGGGAGAGGGGGG GAGGAAAAGGGAATGGCCGGGAAGAAAAGAAAAAGBAGACAG A A G GCACAGGGGAAAGACCCGACCGGGGGGAGAGGAAACCCC G G A T T T A G A A G A G G A G G A G G G C A G G A G G G GCCAAACAGAA $\mathcal{C} A$ ACGGAAGACCGAGGAGAAGGAAAAAACCGGAACCCAAAAAAA A A C G G G A A A G A G A GAAAGGGGGAAGAGGGGCACCAAAA GA GA GAGGAAAACGAAAAGAGGAGAAGGAGGGGGAACCAGAAAAAG A G G G GA A ACCAAGGGGCCAATAGGGGAGGAAAAAGGAGAAAG A G G G A A A A A G A A G G A G G G A G A A G A G A G G G A G G G A A G G A A G G A G G G G G GA G G GA GACAGAGGAGGAGGGTAGGAAAAACGGAGGA $G G A A G G A A A C C C G G G A G G G A G A G G G G G G G G A G A G A A A A G A G G$ GACAAAAAGGGACCGGGGGGCAAAGGAAAGAAGGGAAAAAGG A G G G G G G G G GAGAAAAGGAGAACCAAAAGGAAAGCGAAAAAG GACCAACCAAAAGAAGAGGAGGAGGGAAGAAGCCBGGGAAGG $A G A G G G A G G G A A G A G A G A A G A A G G G A G A G A A C G G G G G G A G A G$ A GCCAGAAGGAGGGGGAAAAAAGCGGGGACGAAGAAAAGGAA GAGAGAAAAGGAGGGGGGAAAAGGGGGGGACCAGCCAAA G GA G GAGAAAAAAGGAAAAAAAGAGGCAAGAAGAGAGAAAAAAGG

A GAA $A \operatorname{GAA} \mathrm{~A} G A C G A G G G G G G A A C A G G G G G G G A G G A A G G G A G G$ G G G GAGGGAACAGAGGAAAGAGGGGGGGAAGGAAAACCACGA GACCGGAAGGCCCCGGAAGAAACCAAAGAAGAGAGGG
G G GCCAAGAGGGGAGGGGGACCAGAAAGAACAGCACAGGAC G GAAGACAGAACGGGGAAGGCCGGAAAAGGAAAGGAAAGGCC CAGGAGGGAGGAGGAGGGGGAAGGAAAGAAAAAGAGGAGGAA A A G G G G A A G G G G G G G G A T A A A A G G G G A C G G G G A G A A A A G G G A GGCAGGAAGAAACCAAGAGGAGGAGACACGGAGACAAGATAG G GAAGGAGCCAGAACAAAAGACGGCCCACAAAGGGGGGGAGA A GGGAGCAAAAAAAGGGGAAGGGAGGGAGGAGACAAGGCAAA GAA A A A GAAAGAGGGGAAAAATGGAGGGAAAGGAAAAGAACAA $A G C A G A A A G G A G A A A A A G A A G G A G A A G G G G G A C C A A G A G G G G$ A GAAAAAGCAAAGGGGAAAAGGAAAAAAGGCAACAAGGAGCA A A A A GCGGAAGGGGAAAAGGAAGGGGCCGAGGAAAGGGAAAA GACAAGAAGAGGAAGAAAAGCCGGGGGGAAGAAGCGACAGAG G GAAAGGGGGGAAGAGCAACGAAGGAAGACAACAAGCCGAAG GAGAGGAACCAAGGGGGGGGTTGAGGCAGGCAGAAACCAAGA A G G G A G G A G G A G A G C A GAGGGGAAGGGGAAGAGAAACAAAAA $G G A A G G A A G G A G A G G G A A G A G A G G A A C A A G C A G A C C G G A G A G$ $A C C C A G A G G G G G A C A G G G A A G G A A G G G G G A A G G A A A A A C C G G$ ACAGAACCAGGGAGAAGAAGGGAAAAGGGGAAAAAGGGTTAA A A GAA ACCGGAAGGCCAGAGGGCCAGCAGGGGAAGGAACCAG A A A A G G G G G G G G G A G G G G A G A G A A G G A G G A G A G G A G G G G G G G G G A A A A A A GAGAGGAACCAAAGCAAAAAGGAAGGGAAAGAAG G G G A A A G G GGCCGGAATTAAAAAAAAAAAGGAACA GAAAAAA AAAAAAGGGGGGCAAAAGGAAAGGCCAAAGAAAAAGCCGGGG AAAAACGGAGAACCGAAAGAGGCCCAGGCAGGACACGGGGAG A G GAGGACAAAGAAAAGGAAAAGGAAGGAGAGAAGGAAGGCC G G G GAGACCCAACCGGAAGAAGGAGAGGCCGGAGAGGCAAGG C C G GAAAA $A \operatorname{AGGGAA} G G G G C C G G A A A A A C A A G G G G A G G G A G G A$ C C A A G G G G A C A C G A A C G G G A G G A A G G G G G G A A A G A G G A A G A G AAGACAGAGGAAGGGAAGCCAAAAAAGGGGGAAAGGAGAAGAG AAAAGGAAAAGGCCGAAAAACCGGAAAAAAGGAAAAGGGGCC G G A A A A G G G G G G A A $\mathcal{A} G G G G G G G T T G G A A G G G G A A G G C A A A G B$ G GAA A GAA A G G GAAC CAAAGGGGGGGGAAAACCCCGGGGAAAG
 AAGGCCGGAAGGGGGGAAAAAAGGCCGGGGCCGGAAAAGAAA AA $A G G G G G A A A A A A G G A G G G G G A A G G A A G G A A G G G G A A A A A A$ A ACCCCAAGGGGGGAAAACCCCAAGGCCGGGGTTAAAAAAAA AACCGGAAGGAACCAACCGGAAAAGGAAGGGGAAAGGECAGB A GACGGGGACAAAAAAAAAGGGAGCCAGGGAAAAAGAAGAGG A A G G A G A G G G A A G C G A G A A A G G A A G G A G G A G A C A A G G G A G G A
 G GAA A GAAAAGGGGAAAGACAAAAGGGGGGAGAAGGGAAGAA A GCAAACCAGAAAGAAGAGGAGCCAGGGGAAGAGAAGGAGAA G G G GCCGGGGAGAAAGAAGGCCAAAAAAAAAAA GAAAGGGGG
 A G G G G GCCAAAAGGGAGGCCAAGGGGAAAAGGAAAACAAAAA G G G G GAAACCCCAAGAAAAGAGAACCGACCAGGGAAGGAAGA GAGGAAGGAACAAAAAACGAACGGGAGAAGAAAGGGAAAGAA GAGGAAAAAGCAAGAGGGGGGGGGCAGGAATTGAAAGAACAG A G G GAA A G A A A A G G G A A A GAGAGGGAA G G G G G G G G G C C G G A C GAAGACGAGAAGAAGGGAAAGGGGGGAAAAAAAAGGAAAAGA AAAAGGAGAAGGAAGGGGAAGGGGACAGGGACGAGAAAGGGA G GAAGGACGAGGGGGGCCGGAGAAAAAAGAGG
$11010000-9 G G A G G G A C G G A G G G G G A A C G A G A A A A A A G G G G C A$ AAAGAACCACACGAAGAAAAAAGGGAAGGAAGCCGAAAGGAA $C \subset G A G G A G G G G A G A G G G A C C A G A A G G G G C C G G G G C C G G A G A A$ G GACAAGGGAGGAGAAAAGGAGAGAGACGGAGAAAGGAGAAA

A A GAGAAAGGAAAGCCGGGGCCGGAGGAGAAAAAGGAAAAAA C C A A A C G G A C A A A G G A GAA $A \operatorname{GGGGAAAAGGGGGACGGACAGAA}$ G G G G G G G G A G A G G G G G G G G G G A G A A G G G C C G G A A A A G G A G G G G GAAAAGGGAACAGGAAAAAAGAACCGGGGAGAAAGAAAGAA A A A A A A G A A A G G G G G GAGGAGGAAGGCAAGCCAGGGGGAGAA CAGAAGAACCGAGAAAGAGAAGGAGGGGCCGAGCAGGAAAGG AA G GAACCGGCAACCCAGGGAAGGGGAAGGAAAAGGATAAAG AAGGGGGAAGAACCAAGGAAAAAACCTTCCAGGGCCAGAGAA A A G G A A G G GA G GAA A A A A A A GAGGAAAGAGCAGAAAAGAA GA G GAAGGAAAGGAAGGGCAAAGGGGCCGGAGGGAAAACCGGAA AAAAACAACCGGACGGCAGGAAAAAAGGAAAAGAAGGGAGGG A G G A A A G A GAA A C C G A GAGGAGGAAGCCGGGAGGAAAAAAGG A G G G G G C A A G GAGGGGAAAAGACCCAGGAAAAGAAGAAAAAA A A A A G G G G A A CCCCGGAAGGGGGGAAGGAAGGCCGBAAAAAA AAAAGACCGGAAGGGGACAAGGGAAGGGCCGGATGGGGAAGG A GAAAACCAAAAAAAAAAGAAGGAAATAAACCAAAAGGGGGG
 AAAAGGCCGGAAAAAAGGAAAAGGAAACGGAGAACAGAAACA G GCAGGGAAAGGGGCGAAAAGGGGAAGGAAAAAGGAAAAAAC AAAGGAGAGAAGGGCCAAAAGGCACCAAGATACCAGAAGGAA GCGAGAGAGGGGGAGGGGAGACAGGGAAGGGAAGAAAAAAAC A A G G T TAATTCCAAGGGGGGAAAACCGAGAAAAAAAAAAAGG GAAGAAGGAAGGCCGGGGAAGGAGCCAGAAAACCAAGGAGAA AAAAGGAGGAACGAAAAAAACCAGCCAGAGAAAGGAGGGGGA
 GACCCCAACAAAAAGGGGAGAAGGAAACAAGACCAGGGAGGG A A GAAAGGAAGACCGAGGGGAAGGAAAAGGAAAGAGAGAGCA A GAGAAAAGGCCGAGAAAAGGAGGGGGGAAAAGGCCAAAAGG A A A A G A C C G G G A G G G G G A T A A A A G G G G G C C A A A G G A CA GAAA G G GAGAGGGGAAAAGGAAGGGGGGAATTAGAAAAGGAAAAAA A A A G G G A A A A A A G A A A G G G G A A A G CA G A A A A A A G A G A G A A G A AAAAAAAGCCAAAGAGGGAAAAAACCGGAGAAAACCGGGGGG AACGAGCCAGCCGAGGCGACGGAGCAAGAAGGCCGGCCAAAAA AAAACCGGAAGGAAGGAGGAGGGAAAGGAAAGGGGGGACAGA $A G G G G G A A G A G G G G G G G A G A G G A A G G G A A A G G A A G A C A A A G G$
 A G G G G GAA A GAAAAAAGGCCAAAAGGAAAAGGGCGGGAGGAG A GAA A G G GAGGGGGGACCGGGGAGAAGGGAGAAAAAGACCCC G G G A G G G G A G C C G G G G C C G A A A A A A $\mathcal{A} G G A G G G G G T A G G G G C D$ GGCCAAAGAAGGAACCCAGGAGAGAGCCGAAGGGGGGAAAAA AAACAGAGAGAGAAGAGGAAAACCAAAGGGCCCCGAGAAAAA A A A A G G T T CAGAAGAGCCGGGGAAACGAAAGAGGCCAGAABAA A G GAGGGGGGGGAAAAGGGGTAAAACGGGGAAAAGACCAGAG
 A A A A A A A A $\mathcal{A} G C C G G G G G G G G G G A A G G A A C A G A A C A A G A G G G A$ A G G A G A A $\mathcal{A} G G G G G G A C G A G G A G G G G G G A A G A A A G A A G A A A G G$ $G G A A A A A G A A C C G G A A G G A A A C G G A G G G C A G A C C A G G G A G G G$ G GAAAGCCAAAGAAAAAAGGAAGGAAAAAAGGAAAACCBGAA G GAAAAAAAAAACCAACCGGGGGGCCAAAAAAGGCCAAGGGG A A G G A A G A GACCGGCCGAGAGACCAAAAAAGGGACCAAAAGG GAGGGAGGAAAAGGGGGACCAAGGGGGAGGGAGAAGGGCCGG GGAACAGAAACCAAGGGACAGAGACCACAGCCGAGGAGAGGG A A G A A A A A A A A A A GCCGGGGCCGGAAAAAAAAAAA GAA GGGG AAAGGGCCCACCCCGGCAAGGGGAAAAGAAAAAAGAAGAAGG G GAAAAGAGAGGAAGGAAAACCGGAAGGAGAAGAGGCAAAAAA A G C A A C G G A A A A C C G G A G G GAGGGAGGGAAGGCCGGAGACAG AA $A \operatorname{GAA} A G A G A A A A A G A A A G A G A C G A G G G A A A A A G C A A A G A G$ C C A A G GAA $A \operatorname{GAA} \operatorname{A} G \subset A G A A C A G A G G A A C A G G G A G G G G G G G G G$ GAGAGGGGGGGGGAAGCGATAGAAGGAGAAAAAAAAAACCAG

GAAGGGGAGAGGCCGGGAAAGGAAGACCGAAGGAAAAAGGGG A A A A C C A A G G G G A A G G A GACAAAGGGAGAGCCGGGGAACC G G GAAAAGGATTAAAAGGAAAAGGGGGGGGAGGGAGAGAABAAG G G G GAA A GACAAACAAGAGAGAGGAGCCAGGGAAAAGGAAAA
 G G A A G A G G G G A G A A G G A A G G A G G A A G A A C C G A A G G A G G G G G G C CAAAAGGAAGGGGAAGAGACAAAAAAAAGGAGGCCGGGGGA G G G GAAAAAAAAAAAAGAAAAACCGAGAGGGGAGGAGAAGAA
 G GAAGGGGGAAAAGGAGGTAGGGGCCGAGAGAGAGGGAAAGG A A CAA A GAGGAAAGAGGGCCAGGGAGAAGGCCAACCAAGGGG A A T T G G G G A A G G G G C C G A A A A A G A G GAGGGAA G G G GA G A G A G $G G C A G A G G A A A A A A G G C A G G G A G G A A A A A A A A G G G A G G A G A T$ A G G G A G G G A A A G A A GAGA G G G G A A A A A A A A A GGGGGAAA G G A A G G G GAGGAGGAGCCGGGGAAGGGACAGGAAACAACCAAAGGG A G GAGGAGGGGGAAAAAAGGCAAAGGAGAGAAAAAAGGGGCC
 G G G G G G G G GACAAAGGACGACCAAGGAAGAAAGGAGAGCAAA $G G G A A A G G G G A A A A G G G G G A G G G G A A A A A G A A A G A A G G A A A A$
 G G G GCAAGAGAAGGGAAAAAAGAAGGAAGAAGGGAAAAGAAT GAGGCCGAGGAAAAGGACCGTAGAGGAAGGAAAAAAAGAGAA G G GAAGGGGGAGAAGAAAGGACAAAAAAAGGAAAGGGAAAAG ATGACAACGGGGAATTAAAAAGACAGGGAAGGGGCCAACABG G G G G G GAA $A$ A $A$ TAGGAACCAGAAAAGGGAGAGAGAAGAAGGCC AAACGGGAAAAAGGGAGAAAAAGGAAGGAAGGTTGGGGGGGA AAAAGAAAGGGGAGAAGGGGAAAAGAGGGAAGAAGAAAAAAC AACCAGACAAGGGAGGGAAAGAAAGGACGGACGGCCAATAGG A A G G G GAAA A G GAAAGTTCCGAGGTTAAAACAGGGAAAAGAG A GAAGAAAAAAGAAGGACACAAAGGGACGGAATACAAGAGAG A A A C G G G G A $\mathcal{A} G G A G G G A G G G A A A A G G G G G G G G G G C C A A A G A A$ G G G G A A G G G GAACCGGCCAAGGAAGAGGGGGGAAAAAAGGCC CAACGAGGAGGGACCCGGAAGGAAAAAAAAAGAGGAAAGGAA AACCAAGGGGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG G G G GACACGAACGGGAAGAAGGGAAGCACAAGGAAGAGAGAG A A GAAAAAAGGACCGGAAGGAAGGAAGAAAGAGGGGABCABAA A G GAA A A GCACAAAGAAGAACCGGAGAGAGAGGAGGAAAACC GGCCGAGGCAAAGGAAAAACAGGCATAAAGGGCAGGGGGGGA G GAA $A \operatorname{GAA} A A A A A A A A A A G G G A A G G G A A A A G G C C A A C C A A G A$ $A \subset A A A A G G A A G G C C G G G G G G A A C C A G A A G G G G G G A G G B A G A A$ A GAGGAGGACAGAAAAGGAAGGAAACAGACAAAAAGAAAACC G G TAGGCAAGGGAAAAAGGAAAACGGCCAAACAGAGAAAGAG GAACGAAGAAGGGGGGGGAAAAGGGGCCAGAAAAAGACAAAG A A G G G G G G A GCAAAGGAAAAAAGGCCGGAAGGGGGAGGAGAA AAGGAAGGAACCGGCCAGCCGGAAGAGACCGAAAAAAGBACC ACGGAAGGCAAGCAGGGGAAAAAAGGAAAACCGGGGGBAGAG A GAAAGAGGGAAGGCAACAGGGAAGAAGAAAAGGAGGCAAAA
 AAACGAAAAGTAAAAAGGAGAACACCCCCCAAAAGGCCGGGG CAACAAGGGGGAAAAAGGAGAGCGAGAGCCGGGGGGGAAACC C C G GAAAAAACCAAAAGGAAAAAAAAGGAAACBAAAGAGGAA A A GAA A A A A A G G G GAA A G G GA $A \operatorname{AAGGGAACCGGAACCGAAGGG}$ A A G G G G G G A A A A A A G G G GAACCGGGGAAGGAAGGAAGAAAAG G G GACCGGGGCAGGAGAGAGAGAAGGAAGGGGGGAGGAAAGA $G G C C C A A A A A A A A A A A G A G G A A A C G G G G A A A C A C A A G$
GTTGGAAAAAAGGAAGAAACAGACAAAGGCGGAAAAAAAAG ACAAAGGACGCCGGAGAGAAAGCGGGGAAGACCAACCGAGAA $A G C C G G G G A G G G A A G G A A G G G G A C A G A A G G G G A G A A G G A G A G$ G G G G G GAAGGCCGGGACAGAAAGGACAAAAGGCCAAAAGGAG

G G G G G GAGAGAGAGAAGGAGACAGACGGCAACGGGGGGCCAA G GAGGGAAAAAGAAGAAAAGGAAAGGAAGAAAAAGGCCAGAG $A C A G A A A G A A A G A G G A A G A G G A A A A G A G A G C G G G G G A A A G G G$ G GCCAAAGGGAACCTTAAGGATGGGATTAAAAGGGAAAAAAG GAGGCGGGGAAGGGAAGGGGAAAAAAAAGGAGAGCCGAAAGA AAAAGGGGAGCGGCCCAGGAGGAAAAGGAAGGAGGACCAAGG A A G G G GAACCAAGGAAAGCCGGGGAAGAGGAACCAAGGCCGG
 G GCCGAAGGGAGGAGAGAGGAGAGAAAAGAGGAGGGAAGAAG AAAAGAGGGGGAGGCCAGCCAGAGACAGGGCCGGGGAAGAAA G GAA A GAA $A \operatorname{A} G \mathrm{G}$ GAGCCGAGGGGAGGGAAAGAAAGGAAAAGGA GAGGCCATCCCCGAGAGGAAGGGGAAACAAGGGGATAAGGGG GAAGAGAAGAAAGGGGGGAAGGAAGGCAGAGGGGGACAAGAA AAGAGAGGCAAGGAAGGGACGGAACCGAAGGAAAGAAACCAA GAACACAAGGAAAAAAAAAGGGAAGGGGAGGGAGGGGGAAAA G G G G G G G G G GCCGGAGGGGAAGAGGGCCAAAAAAGGAGAAAA AA $A \operatorname{GAAAAAGAGGGGCAAAAAGGGACAAGGAAAAGAGGAGGGG}$ A A G G A A A G A A A A A A G GAGCGCCAAAGGAGAAGGAAA GA G GA G AAAGGGGGAAAACAGAGAGGAGGAGGAACAAGGGGAGACCBG A GAACCGGGGTTAAGGAAAGAAGAGGGGGGAAAGAGGGAAGB G G G GAAAAGGCCAACCAAAGGAACCACAAGAAACCCGACAAA AAAGGGAGAAAGGGAGGGGAGGCAGAAAAAGGGGGGAAAAGG GAAAGGGCGGAAGAGGGGAAAAAGAGGGAAGGCCAAGABAAA G G G A C A G G G A G G G A A T G G A G C A G G A G G G G A G G G G G G A A A A C C

 G GAA A GCCAAGGCCCCGGGGGGGGAAAAGGAAAAGGGGCCCC GACAAAAGAGCAAAGAAGGGAAGGGGAAAGAAAAAAAAGGCC $A A G G G G G G G A A A G G A A A G A G A G G G G G A C G G A A G A A G A G A G G G$ AAGGGGAACCTTGGAACCGGGACCAACAGACAGGGAGAAAAG
 $C C G A C C G G G G G G A G G G A A G G A A A G A G C C A G G G A A G A C A A G G G$ A GCGGGGGAGAGAGAATTAAAAGAAGAGGAAGGAAACAAAAA AAAAGGAAGGAAAAAAGAGGCCGCCCGGGAAGAAAAGGAAAG C C G G G GAAATAGAGGAACAGGGAACCCCGAGGGGACGAAAAA G G A A G A C A C A G G G A GACAGGGAGGGAAAAAAAAAAAAGACAA $C \subset A G A G C C G A C C A A A A A G C C A A A G A G C C A G G G G G G A C A A G A A$ AAGGGAGGAAAAACAAAAGAAGAGCACCCCAGACCCCCAGCA
 A A GAAAAAGGAAAAAGATAGAAGAAGACAAAGAGAAGGGGAA G G G GAA A G A A GAAAAGAAAGGGGGCCGGGGAAAAAGGGGAAA A A G A A A G A A G A GAGGAGACCACAGCAAGGGAAGGAAAAGGAG GAAGGAAAGAAACCGGAAAAAAAAAAAAAAAAAAAAGAAAAA A A G G G G A A G G A A A A A A G G G GAA A GAAGGCCAAGGGGGAAA G G C CAAAAGGAACCCCGGGGAAGGAAAACCAAGGAACCGGGGGG G G G G T T G G C C G G A A G G G G A A G G A A A A A A G G G GAAAAAAAAAAA A A G GCCCCGGAAGGGGCCGGGGAACCGGAAAAGGGAAAAAGG AAGGCCAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGGGAAGG AACCGGGGGGAACCAAGGAAGGAAAAAAGGGGAAAAAAAAAA G G A A C C T A G G G G C C A G G G G G A G A A $\mathcal{A} G G G A G G A A G A A A A G G G G$ C C G G G A G G G G G G A A A A G GAA $A \operatorname{A} G A A A A A A A G A G A A A A A G A G A G$
 G G G G G G G G A A G GAAGGACAGAGCAGGGAGAAAGGGGCAAACAC AGACAGAAAGAAAAGGAAAAAGGGATAAGGACGAGAGAAAAA A G A C A A G G A A A A G A A G CAGAGGGGGGCCAAGGACTTCCAGAA A G G G A A C A GAGGACAGGGAAAAGGGGAAAAAAGGAAGGAGAA G G G GAA A G G GAAGGAACCAAAAAACCGGAAGGGGGGAAGGGG G GCCAAAAAAGGAACCGGAAAAGGGGGGAAGGAAAAGGAAAA AAGGGGGGGGAAAAAAGGGGGGAACCGGAAAAGGGGAAAAAA
$C C C C A A G G G G G G G G G G A A C C G G G G G G A A A A A A G G G G G G G G A A$ G GCCAAAACCAACCGGAAGGAAAAGGAAGGCCGGAAAAGGCC
 A A G G G GAA $A \operatorname{GA} A A A G G A A G G G G A A A A C C A A G G G G A A A A A A C C$ A A A A A A A A G GAAAAAACCGGGGAAGGTTAAAAAAAAGGGGCC
 G GAAAAAACCGGCCAAGGAAAAAAGGAAGGAAAAAAGGAGAA G G G G G G A A A A G G G G A A G G C C G G A A G G G G G G G G A A A A G G A A G G AAAAGGGGGGGGAGAAAGGAAGAGAAAAAAGGAAAAAAGAAA A GAAAAAAGGGGGGGGGGGGAAAAAAAAGGAGAGGGGGAGTT
 AAAGCAACGGAAAAATGAAAGGAAAAAAAGAAGAAGGGAAGA A GAA A A G G A GAA $A \operatorname{AGGGTAACGGGGCCAATTACGGGACAAGAG}$ $G G A A G A C A A A G G A A C C A A A A G A C C A A G G G A A C G A G G G G A G A A$ A GAACCAGCAGACAAGGGCAAAGGAAAAAGGGGGGGGGCCCG G GAGCGAAAAAGAACCAAGGGGAGGGAGAACAAAAGGGAAGA G G G A G G G G GA $\operatorname{A} G A A G G G G G G A A C C G A G G G G A A C C G G A A C A A A$ $C \subset G G C C G A A A G G G A A A A A G A A A G G G G G A A A C C A A C C A G A G A G$ A GAAAGGGGGAGAAAAGGAAAAAAGGAAGGGGAACCGAATAA ACGGCCGGGGAAGAGAAAAAGGAATAAGAAAAGGAAGAGGAA AGCCGAAGAAAGAGGGCCCAAGAAAACCGGGGGGCCCCGGAG G GAAACAGAAGGAATAAGAGGGGAAAGGAAAGAGGAAGGGGG A A A A A G A A A A A G TAAAAGGAAGGGCAAGCCAAAGAGAC G GAT G GAGGGACGGGGGACCGAACCAGAAGCACACCCCTAAGTATT GAGAAAAGAAAAAAAGAAGGAGGGCCCCAAAAGAAGAGAGAG G G G G GAA $A$ A A G G GA $A \operatorname{GAA} C \subset A A C A G G A A G G A A G G A C G G G A A A$ G GAAAAAAAAGGCAGACCAAGGGGGGAAAAGGAGAGAGAGAA G GAGACAAAGATGGGAGACAGACCGGAGGGGGCAAGAAGACA A A A A A A A G G G G G A A A A A A A G GATACCAACCAGTTAGAAGGCA G G G A A A GAGGAACCAAGGAGGGGGAAAAAAAGAAAAAAGGAA A A G G A A A A A CAGAGGAGGGGAACCACACGACAATAGAAAAAA GAAACCGGGGAAGGGGAACCAGAGGGAAGGGGCAAGAGAGAG A GCACAGGAAGGGGAGGAAGGCCAAGGAGAGGAGGGAACAAA AAAGAGCCAAAAAGCACCGACACCAGGGACAAACAAGACAAG $A G C C G G G G G G G A A G A C A A G G C C G G G G G G G G G G G G A A G A A A G G$ G GAAGGGGGGGGAAACAAGGAACCAAAAAACCAGCCGGAAGA G GAAGGAAAGGGAGAGAGCCGGAGAAAAAAAAGAAACAGAAG A A GAAAAGACAAAAGGGGGGAGAGAGAAGGCCGGGGGAAAAAA AAAGCCAACAGAGGCCGAGGGCAGGACGAGAGAGGGAAAGAA G G G G A G G G G C A G G G G G A A G G A A A A A A C C A A A A G G G GC C G G G G AAGGAAAATTAAAAAACCGGGAAATAAAAAAGCAAAAAGAAA A A A A A A A C C C A ACCAAGGGAGGAAAAGGAACCCCAAGBAACA A GACAAGGAACACCGGAAAAACGGCAGAGGAGCCCAGAAGAC A GCAAAAAAGACAGCCGACAAGCCGGAAAGAGAA GAGGAGAA
 G GCCGGAGGGGGGGGAAGCCGGAGAAGGAACCAAACAAACBA GAAAGAAAAGAGAGCCGGAAAAAAGGAAGGGGGAATGAAAAA $C \subset C C G G C C G G A A G A A A C C A A G G G G A A A A G G G A A A A A A A G A G A$ G G G GATAAGGAAGGAAGAAGGGGGGAGGGGAAGGCCGGAAGA AAAGGGGGAACCGGGACCAAAAGGTTAGGGGGCCAGAAGGAA $A C G G A A G A A G A G A G A G G G G A G A G G A C A G G G G A G G G A G A G A G G$ GAAAGGGAATCAAAAAAAGGGGAGAGGACAACTTAAGACCGG A A A A A A G A A A A A A G G GCCCCGGTTGGAACACAAAA GA G G CAAG A G GA A A G G G G G G G CAGAAAGAGGGGGGAGAGGAAACAA GAAT GAAAGGGGGGGGGAAGGAAAGGGGAAGGGGTTGGGAG
A A A A G GAGACCGGAGGAAAGGAGGGGGGAACAGAGAACCGA GGCCGAAGCCAACCGAAGGGCCAGAAAACCCCGGGGGGGGGG G G G A A G G A A A A A G G A G G A GAGGAAAGAAAATAGAAAGAAAG G $G G C C C C G G G G A A A A G G C C G G G G A C A A A A A G C C G G A A A A T T G G$

A GCGAAGGCAAAAAACGACAACAAGGGGAAGGAAGGCCAATT AAAACCGGAAGGAAAAGGAAAAGGGGAAAAGGGGGGGGAABG $G G G A A A G G A A A A G G A A G G A A A A A A G G G G A A G G G G A A A A G A A A$ AACCAAGGGGAAAACCCCGGGGCCGGAAAAAAGGGGGGGGAA AAAAGGAAAAGGAAGGCCAAAAAACCGGGGGGTTAAGAAAGA G G G G G GAA A GAAGGAAAAGGCCAAGGGGGGGGAAAAGAAAAA G G G G G G G G C C A A A A G G G G G G C C A A G G G G G G A A A A $G$ G G G G G G G
 A A G G A A C C G G G G C C G G G G C A G A A G G G A A A G G A A A G G G G A G A G G GAAGGAACCAAAGGCAGGGCAAGAGGAGGGGGGAAAACCCC A A A A A A A A G G G GCCAAGGTAGGAGGGGATAAGTTCCAGACGG G G G G A A G G A C G G A A C G A G GAGGAGAAAAGGAAAA G GAAGAGAC G G GAGGAGTAAAGGGGGAGAGAAAGGACAAGAAAATGGAGAA G G G GAAAGAAGGAAAAAAGGGAAGAGAGCGAGACTTGAAGGAG G GAAAGAACGGGGGACAGGGCGCCGGAACCGGGAAAGAAAGA A A A A A GACAAA AACAAGAAACAGGAAATCCAAGGAAC GAAAC G G G G A A G G A C G G GAA $A \operatorname{AGGC} C A A G G G G A A A A A A G A G A G A G A A C$ T T G A A A G G A A G GAGGGAGGGGGAGGAAGGAACAAGAGGAAGA GAACACGACAAGAGAAAAAGAGAACAAAAAAAGGGACAAA GA $A C A A G G A A G A A G G G A A C C G A G G G A A G G G A G A G G A G A G G G G G A$ AAAAGAGGAGAAGGGAACGAGGGACCGGAAGGACAGCCAGGG GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAAACAAGG C CAA G GCCGAAACGGAAAAGACAAAAGGAAAACCGGGGGGGA A A G A A G A G G G A A G G A A A A $\mathcal{A} G A A A G G G A A G A G G G G A G G G G G G G$ A A A G G A G GCCAACCGGAGGGGGAGAACCGAGGGGGAGAGGGC A GAGCAAGAGAACAGGAAAAAAAGGGAGAAGAACCCCC GAAA $C \subset G A A A A G A G G A A A G G G G A A G G A A G G G G G G A A A G A A C C A G A A$ $A \subset A G G G G G A A A A G G G G A A A A A G G A G A G G G G C A G A G A A G A G A G$ $A G C C G A A G G A G G G G G G A A A A G G G G G G A A G G A A A A G G G A A A A A$ AAGGGGAAGAAAGAAAACCCGAGGGGGAGGGGGGAAAAAGCC A A G G G G A A $\mathcal{A} G G G C A G A A A G G G G G G G A G G A G A G C A G A A G A A G A$ $C C G A A A G A A A G A G G A C A G A A G A A G A G C C G G G G A A G A A G A A A G$ GAGACCAGGGGGGAAAGAGGAGACAAGAGGAAAAGGGGAGAA GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G C \subset A G A A C G G A A G A G A A G G G G A C G G A A A G A G G A G G$ G GAGGGGGGGAAGGGGGGAAGAGAAAAAGAAAAGGGGGACAA A A A G A A G G A A GGCGGAACACAGGAGAGGAAGGCCAAAAACAA A G G GAAACAGCCGGGGGAGAGGACAGAAAGACAGGGGAAAAA CCGGAAGGGGGAGAAAAGTTGGAAGGAGAAGAGGCCGAAGAAA
 A A A G G G G G A A G A G G GAGGAGAAAGGGGGCCGAAGGAAAAAA G $A G C A G A A A G G A A A A G G G G A G A G A A A G G A C A G G G C G A A G G G G G$ G G G G A G G G G G A A A C A G A G A G G G G G A A G G C C G G T T G G A A A C G A AAGAGGAAGGAAGGGGAGAAGGAAGAGGGAGGCCCAGAAAAG A GAG A GAAAAAAAAAGAAGGGGGAGGGGGGAGAGCCAGCCGC A A A A A A A G A G A A A GAA $A \operatorname{G} G A G A G A A G A A A A A A G G G G G G A C C G G$ G GAAGGGGAAGAAACCAAAAGGAAAAAAAAAAAAAAAACAGG $A A G G A A A G A G G G G G A A G G G G G A G G G G G G A A A G C G A G G G A C A A$ AAACAAAGAAGGAAGAAGGAAAAGAACCGAAGCCAAAAAAGA AAAAAGAACCAAAAGGAAGAAGGGGGAAAAGGAAAAAAAGGG GAAACCAGACAAGGCCGGCCGGAAAGAAAGAGGAAAAAGGAA G GAGGACCAAAGAGAAGAAACCCAGAAAGGGGAAAAAGAGCC GAGAAAGAAAAAAGTAGGGGGGACACGGGGGAGGAGGGAAGA G GAGACAGGAAAAAAAAGGGGAAGAAAAGGAAGGGGAGAAAA G G G GAAAAA AAAAGAAAAAAAAAAAGAAAGGAGAA GGGGGAC G GAGGGACAGCAGGCAACGAAAGGGAACGAAAAAAGGGAGAAA G GAGGGAAAACCACGGAAGGGGGGAAAAAACCTTAAGGCCAA
 GAGAGGGGAAGGAACAAGAGAAGGGGGGAGGGGGGAAAAAGG AAAAGGGGGGGAAACCAAAAGGAACCGAGAAACCGGGGAAGA

A A A A A A A A G GAAAAGAAGAGGAACAAAAAAGGAAGGAAGAAA A GAGAGGAAGAAGGGAAAAAGAAAGGCAGGGGAAAAAAGGAA G G A G A T A G A A A A G A A G G A A A A G G G G G G A T T GAC CAACC C C C $C$ AAAAAGAGGGGGGGAGGACAAAGGGGAAGGGAGGCCCCAAAA ACAAAAGGGGAAGGAAAAAAAGAAAAAAAAGGAGGGAAAAGA A A A A A A A A GCAGGAACGGAAAACCAAAAGGCCCCGCGACCGG A GAAAGGAAAGAAGAGACGAACGAAGCAGGAAAAAGGAGAAA $A G C C G G G A G G A A G G G G A G G G G G A A G G C A G A G A A A A A G A G G A A$ G GAAAGGAAGGGAAAAAAAAGAGAAGCCCCGAAAAGAAGGAA G G G G G G G G G G G GC CAGAAAA A G G GCGAAAAGGAAC C G G G G G G G A G G GAAAAAAGGACGAAAGGAAAAGACAGAAGCAAAAGAAAA A A G A A A A A $\mathcal{A} G A A G G G G A A G G G G A G G G A A A A G A A G A C G A G G G A$ G G A A G G G G A A G G G G G A A G G G G G A A $\mathcal{A} G G G G A A A G G G G G A A A A A$ A A G G G GAGCCAAAGGGAAGAAAAAGGAAGAGAAGGACAAAGAG A A G G G G G G G G G G A G G G A G G A G A A T G A G G A C G A G G G G G G G G G G AACCAAGAAGAAGGAAGGACGGACGGAAAAGGGGGGAAAAAA A G G GCCAACACCGGAAGGGGAAGGAAGAGACACCAAGGGGGG A A A A T T G G A A G G A A G G A A G A A G G G A G G A G G G G G G A C C A G A G G $A G A A G G A G G G G G G G G G G G G G G G G G A G A A A G A G C C G A G G A A C A$ G G A A A A A G G G A A A G G A G G A A G G A A G G G G A A G A C C A G C A G G G A A A G G G G G A G GAAGGGGGGGGTTAAGGGAGACCAAAAAAGGGG GAAAGGGAGGGAGGAAGAAAAGGAAAAGAAGGGAAGAAACAT GATTAGCAAGAAAACAAGGAGGAAAAGGAGGGGGGGAAAAAA A A G G G G G G G G A A A A C C A A A A A A C C G G G G C C G G GACC G G G G T T A A A G G GAAAACCAAGACCAAGGGGGAGAAAAGAAAGGA GAAA G GAA $A \operatorname{GAA} G G A G A A G G C C C C A A C C A A A A G G A A G G G A A G G G A A$ GGCAAAAAGGGAAGCACAAGGGGATTAACCGAACGGAACCGG A A G G A G G G G G C A G G A G CAA A G A A GCCAGAGGGGAAAACAGCC G G G G A G A G C A A G G G G A A G G G G G A G G A G G G A G A A T G G G G A G G A A G GAAGGGGGAAGGAAAAGAAAAGAAAAGGGGCCCCAACCAA A A G G A A C A A G A G G G A A G G G A A A A A A A TAA $A$ G G A A C G G G A A A G C ACAAACAGGGAAAAGAAACAGGGAGAGCGGAGGGAAGGGGGC G GACGGCAAACCGGAGGGAAAAGGGGAAGAGGGGAAAAAGAG G G G G G A G G G G G A A G A G A A A A A A A G G GAAAAAAAGGAAA GACA G A A A G A A G G A A G G G G G G A A G GAA A G A A A A A A A A A A C C G G A A G G A A G G G GAA A G G G A A A A C C G GAA A GAA G GAAAA A G G GAAAAAC C C A A G G G G A A G G G G G G G G A A G G G G G G G GAA A GAAAAAAAA A $A$ G GAA A G G GAAAAAAAAGGCCGGGGAACCGGGGGGAAGAAAGA AACCCCCCAAAACCAAGGAAAAAAAAGGGGAAGGGGAAGGAA A A G G A A G G A A A A A A G G A A A A G G G G A A A A A A C CAA G GAA G G G G AAAAAAGGCCGGAAGGAAAAAACCAAGGAAAAAAAAGGAGAA T TAGGAAAAAAACAACAAAAACGAAAGGAGGAGACAGGGGGA $C \subset G G G G A G A A G G A A G A A T C C C C G A A G G G G G A G A A G G A G A G G A$ CAGAAACAACAACCGGAGAACCAAGGGGAGAAGGGGGGAGGA C C C C A A G A A A G G C A G A T T G G G G G G G G G G A A A A G G A A G G A G G A GACAGAGACCGAGAGAGGGGGGGAGACCGGGGGGAAAAGAAA G G A A C C A A A GCCGAAAAAGGAGCCAGAGCCAAGGACAA GAAA C CAA $A \operatorname{GGGAA} G \mathrm{G} C A A A A A A A A A A A A G A A A A G G G A G G A G C A A A$ AAACCGAGGGAGAAGGGGCCGGAGGGAAAAAAATGGAAAAAG GAGAAGGAAGAGAGGAGAAGGACCGAAAGGGAAAGGCAAA GA G G A A A A G G G G G G G G A A A A G GAGACTTAAGAAAAAA G $A$ A A A GA G G GAAAAAGAGAAGAACCCCGAAACCCAAGAGGAGGAGGGAGAG CA $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A}$ A A A A A GAAGAGAACGGCAAGCGGAGGAGAG G GAACCAAAAGGGGCCGAGGCCAAAACCGGCCCCAAAAAAAG GAAGGGAACCGGATCCGGCCGAAGAGAGAAGAAGGGG
A G A A G A G A A G A A A C C G G G G G G G G G A G G A G A A G G G G A G C A G G GAAGAAAAAAAACGGGGAGAAGAAAAGGAAAGGGAAAACAGB A A G GAGGAAAGGGAAAGAGAGAAGAGGGGACCGAAGAAAAAG AGCAAAAAAAGGAAGGGGAGGGCCCCGGAAGGGGAAACAAAC

A A G G G A T T G G A A GA A GAGGGGAGAGAGGACAGAGAGAAAGAA A A G A G A A $\mathcal{A} G G G G A G G G G G G G G G A C G A A G G G A G A A G G A G A C A G$
 G GAGCCGAGGAACAGGGGGAAAAGGAAGACCCAAGGGAAAAA AACCAAAAGGAAAAGGGGGGAAGGGGGGAAAGAGGGGCAGGA
 G G G A A G G G A G A G G G G G A A A A G A A G G GA G G G G G G A G G G G A G C G $G G A A G G A A A A G G A A G G A A G G A A A A A G A A A G A A A A G G C C G G G G$ GAGGAACCAGAAAGCAGGAAGGAAAGGGGGGGAACCGGGGGG C CAGAAGGAACAAAGAAGAGAAGAAGGGAAAAAAGAGAAA GA $A C A C C C G G G G G G T T G G A A G G G G C A A G A G G A G G A G G G G G G G A C$
 A A A A G GAA A G A A A G C C G GAAAAAGGGGGGGAGAA GGGAAAA G $G G C C C C A G G A C A G G G A A G G A G A G G A C C A G G A G A C G A A A G G G G$ G GAGGGAAGAGAGGGGAAAAAACCAAGGGGACGGAGAAAAGA $C C G G G G G G G A A C G G A A T T A A A A G G G G G G C C G G A A G G A A G G A G$ G G G G A A A A C C C C G A G G GAGGGAGGAGAGGGGAAACCAA G G G G A $A C C C G G G A A A C C G G A A A G G G C C G G A G A A G A G G G G A A A A C C A C$ A G G GAGAGACAACCAGCAAAGGAGAACCGGGGGGGGGGAGGG CACAC GAGAAAAAAGGAAGGGGGGGAGGACAAAAGAAAAAGAG GAAGGAAGACCCAGGGAGAAGGGAGGAGGAGGCAAGAGAGGG G G G GAAAACCGGGGAGAGAAACAAACGGACAAGGAGAACCGG $A G A G G G A A A C G G A G G G A C G G G G G G G G A A A C G G G G C C G G A G A A$ G GAGGAAGGGAGACAGAAGGAACCAAGGGGGGAGGGAGAGAG GAAGAGAAAAGAAGAAAAAAAAGGGGGGAAGGAAGGGGGGGG A GAAGACCGGAAGAACGGAAAAAAAAAAAAGGGGAAAGAGGG C CAAAA $A \operatorname{A} G \mathrm{G} G A C C A A G A A G G G G G A A A A G A G G A G G G G G G G A G$ A GAGGGGGTTAGAAACAGGGAGAACCAAGAAGGGCAGACAAG G GAAAGGGGGAAGACACAGAAGAGGGAAGGGGTAAAGGAGAA $G G A G G C G A G G G G A A G G A C G G C A G G A G A G A A G G A A C C C C G G G G$ G G G G G A C C A A A A G G A A A G G GAA $A$ G GAAAA A A A GAAA A A G G G T A A G G GAAAACAAAAAGAGGGGAAAGAAGGAAGAGAGAAAGGAT G G A A A A G G G G G A G G G A A A G G G G G G A A G G G GA GAAAAAC A A G C G GAGGGAAGAGGGGGGAGCCAAGGCCAAAAAAGGAAAACAAA GAACGGGGAGGGAAGGAGCAGACAGAAAGGGGAAAGACAATX C CAAAACAGGGGGAGGGAGAAAGGGGGAGGAAAACCGGAGGG G G G GAACCAAAAACAAAAGGAAAGCCGGCCGGAAAAAGAAAC G GAGAA G GAAGGAAAACCGGGGAAAAGGACCCGAGCGAGGCC A A A A G GAACA $A \operatorname{A} \operatorname{A} A \mathrm{~A} A A A G A G G G A G G G C C C C A A A A A A G G G G G G$ C C G GAAAAAAGGAAGAAAGGGGGGCCAAGGAGAGGGAAGGGA TAGAAAAACAAACGGGGAGACAGGAAGACCGGAAAAGGGGGG AA G GAA $A \operatorname{GCCA} A A A C C A A G A A C A A A A A A G G G G G G G G G G G A G G$ G G G G G GCACCAAGAGGAAAAGAAAGACCAGGGGGGGGAAAAA GGCCAACAAAAGGAAAGAAAGGACAGGGAAAAAAAAAACACAA AA $A G A A A G G A G G G G A A A C G G A A G G A G A G A G G A G G G A C A A G G G$ A A G G G G GAGACCAAGGACCGGAAAGAGGAAAACCAAGGAAAA
 G GAAGGGGGGGGAGGAAAATGGGGGAAAAAAAAAGGAAAACAC GAAGGAAGGGGGAATTAAAAAAGGAACACCGGAGCCACAAAA ACGGAAGGAAAAGGGGAAAGGGCGGGGGCAAAAACAGACCGG GAAAAAAGGGGAAGGGGAGGAGAGGGGGCCAGAAAAGAAGAA A GAGAGAGGGAGGAAAGGGGAAAAGCGGGGCCGGAACAAAAA
 GAGGAAGGAGGGCCGGAGAGAAAAGGGACCAAGAAGCCGGGG G GCAAAAAAAGGGGCCAAGGAGAAAAAACCGGAACAGAAAGG GAAAAGGGAAGGAAAACAACAAGAAAGGAGAGGAGAAACCCC C CAACAAAGGAAAAGGAAGGGGAAAAGGAAAGAAGGACAAAC A A G G A A G G G GAACC G GAAAACAGGGAAGACGGGAGAAAAA G G AAGGCCAGAACCGGGGAAAACCGGGGAGCCAAAAGGACXAAA

A A A A A A G G G G A G A G A A A A G G G G G G G G G G G A A A A GTTCAAA GA G G G GCCAAACGGGGGGAAAGGAGGAGAAAAAGGGGAAAGGCC A G A A A A A G A A G A A A A A CAACA $A$ A A A GGGGAATTAAAAAA G GAC G G GAGGAGCCCAAGAGCCGAAAGGGAGACCAAAAGGCCAGAG GAAAAACCAGAAAAAGGGGAAAAAGGGGCCAGAGGGGGACBG
 A GAGAAGGCCAAAACCAACCAACCCCGGCCAAGGAAAAAAGG $G G A A A A G G A A C C C C A A A A A A G G G G G A A A A A A G A A G A G A A G G G$ A G A A A T G G GACCGGGGGGGAACGGGGAAGGGGCCACGAAAAA AAAAGAACAGGGGGGAAAAGGGACGGGGGACCAAGACCAAAG A A A GAGGAAGGGGGCGCAGAAAGGAAGAGGAGAGAAGGAGAA A A C C A GAGAAAAGAAAGGAAGGAAGACACCAGGAGAAGACAA C C G G C C A A C C G G A A G G G G G G G G G G G G A C G A A A C A G G G A T T G G A GAA A A $A G G G G G A A G A G A A A G A A G C A A A A G G A G A A A A A C C A G$ G GAGAATTAGGGAAGGAGCCAACCCCGGAACCGGAAGGAAGG
 G G G G G A A C A A A GAA A GAAAA A GAGCGGGAAAAGGAAA G G G G GA
 AAAAGGGGAGGGGGCCAGAGAAGGAAAGGAGGGGAACCGGGG A GAGAAAGGGAACAGAAGGAAGAGGGAAACAGAAAGTXAAAG G GAAAAAGGGGGGGAAAGGGAACCAACCGGGAAGGGACCCGG G G G GA $\operatorname{A}$ GAAACCGGAGAGAGAAGGGGCCAGGGGGAGGGAAAA A A G G A A A A G G G A G G G G A A A A G G C A G GAGCAAAAA $A \operatorname{A} A G G C C G G$ G GAA A G G G GAGGAAAAGGAGAGGGAAAACAGAAAAGAAACAA G GAAAATTAAGGAAGGAAGGAACAGGAAAAAGAGAGATAGAA TAAGGGGGGGAACCAGAAAGCAGAGGAAAAAAGGGGAAAAGG G G G G G G G G GAAAGGAAGGAAAAGGAACCGAAAAAAAAAACAC C C G GCCGGAAAAGGGGTTGGAAAAAAGGGGCCGGAACCAGAG G G A A C G A A G G G G G G G G A A A CAAAA A A G G G GCCGGG GAA G GA A AAGAAAGGAGAACCGAAGAAAGCCGGGGAAAAGAGGGGAAAG G G G GCCGGGAGACCGAAGGGAGAAAGGACCGGGGAAAGAAAA GGAGCCAACAGGAAGAGAGGGGCCCCAAAACCAAAAGGAAGG GAACGGGGCCGGACCCGGGGGGAAAGAGCCACAAAGAGACAG A GAGGAACCAAAAGGAAAGGAAGGAGAACAGAGGGAAAGGGG A A A A A A T T G G G G G GAAAAAAAAAGGAAAAGGGGAAAAA GAA G G AAAAGGCAGAAGAGAGAACGGGGGAGAAGGAAGAAAGAAAGG A A G GAA A A A A C C G A GAGAGGGGGGACAGAAGGGGGAGAAGAG G G G GAA $\operatorname{A}$ GAAAAAACCGGGGAAAAGAGAGGAGGGGAAAAAAA

 G GAAAGCAAGACAGGGAAAAGGTTGGGGGGGGAAGGCCAGAG A A A A A GCCAGGAGACCCCGGAACCGGGGAAAAGGGGAAGAAA G G G GCCGGAAAAAGAGGGAAGGAGCCGAAAAAAAAAAAG GAA A A C A A A G G G G G G G G C A A A G G G G G G G G A A A A A A G GC CAAAA C C T T G G G G A A G G G GAA $A \operatorname{GGCCGGAAAAAAGGCCAAAACCGGGGCC}$ G G G G G GAACCGGAAAAAAAAAAAAAAAACCAAAACCAAGGAA G G G GCCGGAAGGGGGGAAGGAACCGGCCAAGGAAAAGGAAGG C CAA $A \operatorname{GAAA} A G G G G A A G G A A A A A A A A G G G G C C A A A A A A A A A A$ C C G G G GAA $A \operatorname{GA} A A A C C G G G G G G A A G G A A G G A A A A A A A A G G A A$ A A G G G GAA A G G G A A A A A A G G A A G G G GCCGGGGAAAAAA G GAA A A A G G A A A A A A A A G G G G G G G G G G C C A A A A C C A A A A G G G G A A G G CCGGCCAACCAAAAGGAAGGAAGGGGGGAATTGGGGAAAAAA A A C C A A A A C C A A A A A A A A A A A A A A C CAAGGGGAAG GAAAAAA AACCAAGGAAAAGGAAAAGGGGCCCCGGCCGGAAAAAAAAAA G GCCAACCAAAAAAGGGGCCCCAAGGCCGGAACCGGG
GAAGGAAGGCCAAAAAAAAGGGGGGGGAAGGAAAAGGAAGAG G G G G G G G G A A A A G G G GCC G G C C A A G G G G G G G GAA A GAAAA A $\mathcal{A}$
 AAAAAAAAGGGGGGAAAGAGAGACAAAGAGAAGGAAAACCCC

A A A A A A G G A A G G G G G G G G G A G G G G G GCCGGGGAGAAAAAGAA C C G G G G A C A G G G A A A A A A $\mathcal{A} G G G A C G G G A G G G G G G A A G G G G G G$ A A A G G GAA A G A A A A GAGAGGCCGGAACCAGGGAAAAGGAAC C AACCAAGGAAAAGAAAGAGGAGGGGGGGGGAGGAAAGAAACAC $C \subset G G G A G G C C G G C C A G G G C C G G A A C A G A G A A C G A G G G A G G A G$ GA $\operatorname{G} G A C G A G A G G A A G G A A A A G A G G A A G G G G G G G A G G G G A G A A$ AAGGGAGGAAAAATAAAAAAAAAGCAGAAGGGAGAAAACCAG GACCAGAGAAGACCAGGACGGAAAGGGGCCATAACCAAAACC GAAGAGGAAGGGGGGGGGAGAAGGAAGGAGGAAAGBAABAAA G G G G G GCCGGGAACAAAGAGGAGAGGGGAGGAGGGGAGAAAA GAGGGCGGAAGGAAAAAAAGGGGAGAAAAGCCAAAAAAAAAA $A C C C A C A G A G G A G G A G G G A A A C G G G G A A C C G A A A G A A A A G G A$ G GAAA $A$ A $A \operatorname{AA} A G G A A G G A C A G C A A G G G A G A G A G G G A G G G A A G G$ AAAGAAGGGGGGAACGGAGGAAGGAGAAGGGGAAAAAACCGA A GATAGAAAAAAGGAACCAAAAAAGGGGGAGAGAGGGGAAGG AAAAGGAAAGGGCAGGAAAAACAACAGAGGAAAAAGGGGGGG GAA A G G G G A A G G A A G G G G T T A G C A GAGGGGAA GAAACA GA GA A A G G A GCCGGAAGAAGAACCAAGGAGAAAGCCGGCCAAGGAA $G G A G G A G G A G G A A C C C G G G G A G A G G G G A A A C A A A G G A A G G A A$ G G G G G A G G G G G G G A G G G G G A A A A A A G G G G G G A G G G A A G A G G A A G G G G A A A A GAGACCAGCCGAAAGGCCGGAAAAGGGGGAAAAA G G A G G G G G A A G G A G G G G G G G A A G G G G G A A G C C A A G G G G A A G G G G G G G G G A A G G G A G A G A A A A $\mathcal{A} G G G G G G G A A A A A A G A C C A A G G$ G G GAGGTTGAGGCCAGGAAAGAGGAGGGCCGAAGGAGGAAAA A GAGCAAAGGAAGAAACAGAAAAAAAAAGGAAAACCGGAGAA $C \subset G G G C G G G G G A A G A G A G G G A C A G G G G G A A G G C C C C A A A A C C$ $C \subset G G G G G G G A G G G A G G A A A G G G A A G A A A A A A A G G C C G G C C C C$ G GAACCGGGGCCCCGGGGGGAAAACGAGGGAAGGAGGGCCCA
 AAAGCCGAGGAAGGCCGGAAGGAGCCGGAAGAACGAAGAAAA C C G GCCAAACAACCGGAATAAAGGACGAAAGAAAACGGCCGG G GAGGGGGATAAACGAAGAAGGGGGGGGGGGGAGAAGAAGTT AAAGGGAAGAAGAGGGAGGGAAAAGGCAAAAAGGGGAAAACC A A A G A A A A A A A A A GCC G G A A A A A A A A A A G G GAGGGA GAAAA A G GAGAAGGGGCCGAGGGGAGAGCAAGACAGACAGAAGGAGAA
 CAGAAGGGAAATAGCCAGCCGAAAGGAACCGGGGGGTTAAGG CACAAAAAGAAAGGAAAAGGGAGAAAGGAGAAGAAAAAAAGA A A G G A A $\mathcal{A} G G G G G C C G G G G A A A A A G A A G G G G G G A A A A A A A C A A$
 AAGGGGAGAAGGGAGGAAGAGGCCCCGGAAAAGAAAAAGGGG GACCAGCAAGAAACAAGGAACCGGGGAGGGAAAGCCGAAAGG G GAAAAGGAGACGCGGGGACAAAGGGGAAGAAAGCAGGAACC $A \subset A A G G A A G G G G C C G G G G A G G G G G A A G G G G C A A A A A G G G G B A$ AAGGAAGGAAAACCAACCGGAAAAAGAAAAGGAAAAAAAAAA A CAGAAGAGGGAAGGGGGAAGAGAAGAAGGGAAAAAGAAAAA CAAA A A A G GACCCCGGAGAGAAGAAGAGAGAGAAAACCAAGG
 G GAAAAGGAAAAGGAAGGGGAGAGCCGAAGAAGGCAAGAGGG
 G G A A A A A A A A A G G G GAACAAAAGAAAAACCGAAGCCGGAC GA A A G G G G GAGAGAAAGGAAGGGGAAGAGAAGGGGGAGGAACAAA CAAAAAAGGGAAGGGGACTAGAAAGGGGAAAAAGGAAAAAAA G G G GAA A GAAAAAACAAACCGAGGGAGGAAGGAAAAAACCCC $C \subset G A A G G G G G A G A A A C A G A A G G C A A G G G G A A C C C G G G G A G G A$ A A G A G G A G A G G G G A A A A A G G G G A A G G A A C GCCAAA $\mathcal{A} A A G G G A G$ CAAAAGGGAAGGAAGAAATTGGGGAGAAAAAAAAGGAGAAGAG G G G G GACC GAAGCCAAGGAAAAAGACCCGGCCAAGGAA G GAA G G G G A A A A G GAA $A \operatorname{GGGGGGGAAAAGGAAAAAAAAAAGGGGAA}$

AAAAGGCCAAAAGGAAAAGGAACCAACCAACCGGGGAAAAAA
 A GAGAAACAGAAGGGAAAAGAAAACGGGAGGAGGGGAACCTT AAGAAAGGAAGGAAGGAAAGAAAAGGGGCAGGACAAAAGGAG G GAGCCAGAAGAGGGGAACCGGAAGGAAAAGGGAGGGAAAGA G G G G A A G G G GCCGGAAGGGGAAAACCAGAGAAAAAGAAAAGA G G GAGAAAGAGGAAAGAAGGAAAGGAGAAAAGGGGGCAAACC AAGGGGCCGGGGAAAAGGGGAAGGAAAAAAAAAAGAAAAA G G $A$ G GAAGGAAGGCCAAGGCCGGAAGGAACAGGAGGAGGAAAAAA $C C G G A A T A A A G G G A G A A A G G A A G G G G G G A G A A A A A G G G A G G G$ A GCAAAGGGGAAAGCCGGAGACAAGGCCGGAAAAGGCCACGG GAA $A \operatorname{GAA} A A G G G G G A A G G A A A A A A G G C C G G A A G G G G G G G G G G$ A A G G A TA $A G G G A G A A G A G C A G A C C C A A A G G A G A A A A C C G G A G$
 G GAAAAAAGGAAAACCGGGGAAAAAAAAGGAACAAAGGGGGG A A A A G GAA A GAAAAGGAAAAGGAAGGCCGGAAAAAAAAAAAA G GAACCAAGGGGGGGGGGGGGGGGCCCCGGGGAAGGAAAAGG A A A A G G A A A A G G G G A A G GAAGGGGGGAAAAGGAAAAAAAAAA AAAAGGCCCCAAAAAAAAAAAAGGGGGGGGAAAAGGGGAGAA C CAAAAAAAAAAGGCCAAAAGGAAGGGGAAAAAAAAAAGGAA G GAAGGGGGGAACAGAAGGAGAGAAAGGGATTGAGAGGGGGA GACAGAGAAGAGAGGGAAAAAACAAAAAAGGAGAAGGAATCC ACAAGGCCCCACCCAGCCGGGGGGGAACGGAAGAGAAGAGCA G G G G G G A A A A C C A A G G A A C A G G A A G G G G A A G G A G G G A A G G G G
 G G G GC C G G G G G GAA A A GAAA A G G G G GAGGGGCTTCCGGGAGG GAGGCCAACCCCGGAGAGAAGGGGCCAACCAAGGAGAGAGAA G GAAGGCCGGGGGAGACAGAGAGAAGGGAACAAGAGGAAAAG T T GACAAA $A$ A A A A G GAAAAGGCAAAGAGGCCGGAAAGGGCCAG G G GAGAAGCCCCAAGGAAGGAACCGGCCAAAAGGCCAACCGG G G A A A G A G C C G A A G G A G G G G G G G G C C G G G G G G A A G G G G A A A A G G G GAA A ACAAACCGGAGCCGGGGAGGAGAGGCAAGAGAAAA
 A GAATTCAGGAACCGGGAAAAAAAAAAAAAGAGGAAAGGGGG A A A A A GCCGGAAGAAGACGGAAGGAAAAGACCAAAGCACCAA
 CAGGAACAAAAACCAGAGGGAGGGCCAAGGGGGGGGGGGGGG
 G G G G A A A G G G A A A A A G G G G A C A A G G G G A C A A A A G G A A A A A G A G GAAC C G G A A A T C C G A A A G G G G G A A A G G A G G G A G G G G G G G A A GGGGAAGGAAACCAGACAGGGGAAAGAAGGAAGGAAGGAAAG
 A A A A A ACCGAAAAGCCTTCCAGGCGAAAAAAGGGGAAAG GAA A A GAACGATAAGAGAGGAAAAAGAGACCAAGGAAGGAAGGAA $G G A G A A G G A A G G G G A G G A A A G A A A G G G G A A G G G G A A A A G A C A$ G G G GAGGGAAAAAAGGACAAAGGGAATTAAAGAAGAGAAGCC $G G A A A A G G A A A G G A G A G G G G A G A G A G A A A G G G C G G A G G A G G B$

 G G G G G G A A G G G G A A A A $\mathcal{A} G G G A G G G C A C C G G A G A G G G G A G G B A$ GAAAGGAAAACCGGGAAACCGGAGGCGGAGAAAAGGGGAGAA AAGGGGGGGAGGCCCCACGAGAGAAAAAACAAGGAGGAACGG GACGAAAAGGGGGGAAAAAGACAACCGGGGCAAAAAGGGGGA G GAGGAACAGGAAGGGGGGGGGCCAAAAAAGGAAGGCCAAAA A A A A G G G G A A A A G G C CA A G G A A G G G G G G G G G G G G G G G
GAGAGGGGGGGAGACGGGGAAGGGGAGAGAAAAGGAAGAAB
 $G G A G A A G G C C A A C C A A G A A A G G A G A G G A A C A G A G A G A A B A G B$ $G G A A C C A G G G G A G G A A G A G A G G G A G G G G G A C C G G C A A A G A A A$

AAAGAAGGAAGGAACCAGCCGGGAGGCAGAGAGAGAAGAAAG GAGGGAGAGGAAGGGGAACCGAAAGGCCGAAAGGAAAGGGAG CACCAAAAAACAGGAGGGGGAAGATAGGGAAGAGGGGAAAAG G GAAAAGGAAGGGGAGGAGGAAGAAAAGGAAACCGGAAAAGA G GAAAACCGGAAGAGAAAGAGGGAAGCCGGGGAGAGAGAAGA GAGGCAAAAAAAGGAAAAACACGGGGGGGGGGGGAAAAAGAC C CAAA $A \operatorname{G} G A A A A A G A G C A G G C A A G G A G G G G A G A G A G G A G G C A$ G GAGAAAACAATGAGGAGAAGGATGAGGGGACGGAGGGCCAG A A G G G G G G A A G G G G G G G G A A A A A A G GAAAAAAAAAAAA A A A $\mathcal{A}$ G G G GAAAGAGGGGGAAGGAAAAAAAAAAGGAAGGAAAACAAA $C \subset G G A A A C A A A G G G A A A G A G C C A A A A A A A A G A A G A G A C A A G G$ $G G A A A A G A A G G A G A G G G G G G A A G G A A A A G G G G A A G G T T A C G G$ A G G G A G A A A G G G C A C A G A A A A G A G G G G G G G G G A G A A A A A A A G
 A GAGAGAAAAAAACGGAAGGAAGAAAGGGGGGAACCCCAAAG G GAAAGGGAAGGAACCAGAAGGAAAACCGGGGAACACAAAAA G GAA A G G G GAAAAAAAGAAGAGGGAGAAAATTGGCCAGAGBAA A G G G A A G G G GAAGGAAAGCCCCGAATGGAAAGAAGGAGAAAA AAAAAAGGAACCGGGAGAAGAAAAGGCCAAGGAAAAGACCAA A A A A A A G G G G G G G G A A G G G G A A G G G G A A G G A A A A A A G G G G A A AAGGAACCGGGGGGGGGGGGAAAAGGAAAAAAGGAACCAAAA G GAAGGGGAAGGAAAAGGGGAAAAGGGGCCGGAAGGAAAAAAA A A G G A A G GCA $\mathcal{A} A \operatorname{A} G A A G G C C A A G G G G A C G G A G G A C C G G C A A A$
 G G G G G A A G G G G G A G A A G A A GAAA A G G G G A A G G G G A A A A G G A A G GAAAAAAAGCAGGAAAAGAGAGGAAGGAAAAGGAGGGAABA GAAAGGGAAACCATCCAGGGGGAAGAAAAAAAAAAAGGGGAA A A A A G G G G A A C C A A A A A A G GAA A GAAGGGGAAAA $A$ A A G G G G A A A A A A A GAGAGAAAACCAAAAGGCCAAAAAGAGGGAGAAGAAG CAAAAAAAGACCAAAGAAAAAAAAAAGGGGGAGAACGGAAGA C C A A A A A A A G A G G A G G G G C C G G A G G A G A G G GA C A A G G A G G A A G GAGAGAGAGGAAAAAAAAAGGCCAGGAAGGGGGGGAAAAAC G G G GAA A A GAGGAGAAAAGGAAAAAAGGAGAAGGGGAAAACA ATACGGGAGAAAAAAGGGGAGGCAGACAAGAGGGAGAAGAAA
 GATAACAAAAGAGGAAGGAACCCCAACCAAGGGGAAAAGGAA G G G G G A A A A A A GAAAAGGAAAAGGAGAAAGCAGACAAGAAAA G GAGGACCCGAAGAGGAAAAGGGGCCAAAAACGGGGGGCCGG A A G G A A A G G G G A A A A A G GCCGGAGAAGAAGAACCAACCACAA G GAGAGAAAACCGACCAAAGAGACGACCAGAGAAAGGGGGGG AAAGGGCCCCAAGGCCGAAGAAAGGAAGGGAGAAAAAGGGGG G GAA $A \operatorname{GA} A A A A A A A C A A A G A G G G G G G C C G G G G A A G G C C A A G G$ G G G G A A G G A A G G G G A G G A A A G G A G G G C C G A A G G A G G G G A G A G GAGGGGAACCAAGGGAAAGGGGAAAGAAGGGAGAAGAGAGAA GAAAAAAAAAGAATGGAGAACCCCAAAGGGGGGAGGGGGGGA A A A G A G G A GAGGCCAGACAGGAGGGGAAGACCGCGGGGCAGB $G G C A A G G A C A A A A G A G G G G A G A A G G G A A G A A A T T A A A A A A C A$ GAGGGAAGAGGGAAAAAGAGAGGGGGCCAAAGCCGAAAGAAA AAAGGGACGGAACCGGAACCAAAAAGGGGGAATTAAACACAA A ACCAAAAAGAGGAGAGAAACCCCAAGGAAGGAAAATXGGGG A G GAA A A A A A A A A A G GAACCGAAAGGGGGGGAGA GAGA GACA G G GACAGGGGAAGGAGAAGGACAGGGGAACAAAGAGAACCCC G GCCGAGGAAGGAAGGAAAGAGAACAAGGAAAAAGGCCCCAA AAGGAAGGAAGGGGGGCCGAAGGGGGGCGGCAAGGGAGAGGG GAGAGGGAAGGACCAAAAACGGGGGACCAGCACACCCAACAA A GACGGGAGAGAAGGAAACCAGGGAGAACCAAAAAAAAAAAG A A G G A GAA A A G G G GACGGGACAAAGAAGAGAACCAGAAGGCC
 G G G GCCGGGAGGCCAAGGAGGAGGGAAAGGAAAACAAACAAA

G G G GAAGGAGGGAAGGAAAAAAAAAAGGAAGGAAAAAAGGCC A A G GCCGGGGAACCCCGGGGGGAAAAGGGGAAAAAAAAGGGG AAAAAAGGGGCCAAAAAAAAAAGGGGGGGGAAGGGGGAAAGG G GAAAAAAGGAACAAAAAAACCGAGGACCAGAGGGGAGACAA CAAAAAAAAGGACCACAAAAAAAAGGGGGGTAAAGACCGGAG GAAAACGGGAAGAAGGAGAGAAGAGGGAAGAGAGGAGAAAAG A GAGGAGAAGAGAGATGAGAACGGAAAGGGGGAAAAGAAABA GAGGGGAAGGAAAAACGGGAGGGGGGACGAAAGGAGAAATAA
 G G GAGGGGCCAAAGACAGGAAGGGGAAAGGGGAAGGGGAAAA A A G G G GAA A A C A A T C A GAGGAGGAGGGGAAGGAA G GAAAA G G AAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGGAAAGGAG A A A A G GAA A G GACAAGGAAAAAAAACGGAAAAGGGGC GAAAA
 $A G C C A A A A A A G G G G A A G A A T G G G G G A G G G G A A G G G A G A G A G G$ A A GAA A A G GAGGGGAACCGGAAAAAAGGCCGGAGGGAAAACC C C T T G GAAA A A GAAAAA A GAGGGGAAGGGGAA G GACGGGGGG G GCCGGAGAAGGCAAACCGGAAGAGAAAACGGGGGGCCGGGG AAGAAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGGAAAGG $G G A C G A A A G G A G A A A A G G A A A A A A G A G G G G C A A A A G A A A A G G$ G G G G G GAAGGAACCGGAAGAGGAGGGCCAGAAAGAAAAGAGG TAAGAAAAGGCAAAAAGGGGAAAAAGCCACAGAAGGAACACC A ACCACAGGAAGGGGGAAAAAGGGCCGGGGAAAACACBAABA $G G C C A A A A A A A A G A A A C C C C A A A G A C G G A A A A G A G A A G A G A A$ $A \subset C A G G G G G G A G G G G G G A G G G G A A G G A G A A A G G G A A C C G G A G$ G G GAGGAGCGAAGAAGGAGAAGCAGGGGAGGAACAAGAGAAG G GAGGGAGAAGGAAGAAAAGGGGAAAGAGAACCAAAAAAAGG A GAGCAGGAAAGCCAGGAAAAAAGAACCAGGAAGAGAACAAA G GCCAA G GAAAAAAAGACAGGAACGAAAGGAGAAAGACAAAA A A A A A C A G A A A G G G G G G G G G G G A A GAGAGGAAGGGGGACCAA A A A G A A G A GAG G G G A G A A G A C C G G G GAAAAGGGGAGGAAA G G GGAAAACCCCAACCGGAAGGAAGGACGAAATAAAGGGAAAAA AAACGGGGAAGAAACGAAGACACCAGCCAAAAGGAAAGGGGG AA $A$ A $G G A G A A A A C C A C G G C C A G A G A A G G A A G G G G A G C C G G G G$ AGGACCCCCAGGAGAAAACAAAAAGGGACCACAGAAGGAAAA G GAACCGGGAAAGGAGGGCCGGAAAGAACCGGGGGGGGAAAA A G G G G GAGAGGGGGCAAACATAAGAAGGGGGAAGGGAGAGCA AGGAAGCCCCGGCCGGCCGGAGGGGGAAAGGGGACAAAGAAA C C G G A G A A G G A A C C G G A A A GAACCCCAAGGGGGGACCAAAAA A A A A G G A A GAGAACGGAAAAGGGGGGAAGGGGAAAAACAGAA $A G A G G G G G G G G G A A G G G A A A C A G G G G G A G G G A A G G A A A A A A G$
 AAGGGAGAGAGAAGACAGAAGGGGGGAAGAGAGGGGAAAAGA G G A G G G A G A G A A G A G G A G G G G G A G G A A G G A GAAA $A$ A G G G G A A G G G G G G G G G G A A CA A A A A A CAGGGAAGGAGACAAGAAACCAG $A G C C A G G G A A G G G G C G A G G G G G A A A G A A A C A G A A A G G G G G G G$ C C G GAAAAAAAAGGGGAGAAGAACAGCAAAAAAAGAAACCGG G G G GAAAAGGCCCCAAGGCCAAAAGGGGAACCAAGGGGTTGG G GAA $A \operatorname{G} G \mathrm{G} A A \mathrm{~A}$ GAAAAAAGACAGGGAAGTTAAGGAAGGGGGG G G G G G G A A G G A A A G C C A A A A G G GACAGGGGGGGAAACA GAA G A A G G G A A GCCAGGGAAGGAAGGAAGGGGCCAAAAGGAAGGAA A A A A A ACCACACCACAAACCCCGGGGAGAAAAAAAAGGGGAA A A A G G GCCAA $C$ C $\mathcal{A} A A C C G G A G G G A A G G A G A G G G G G G G C A A A A A$ $C \subset G G G A G G A A C C C C A G A A A G A A A G G A C C A A A C A A G G A A A A G G$ A A G G G G A A G G A A G GCCGGAAAAGGGGGAGAAACAGGG
GCCGGACGGAAGGAGGGAAAGGGCCAACCAGGGGGAAAAGG GAAAAGACAGAAGACAGGGGGGGACAAAGGAGAAAAAAGGGG
 AGAGGGGAAAGGACGGAAAGGAGAGGAAGGGAAAAGAAAAGA

A G G GAGGGGGGGAAAAGGGGAAAACCAAAGCAGGGGCAGAAC ACAGAAACGGGGATGGGGGGCAGAAAAGGAGGGGACAGACGA $G G A G G A A G A A G G A A G G G G A A G G A G A G G A G A A A G G C C A A C A A A$ A GAA A A GAGGGGGGAGGGGGAGGGGGAGGGAAGGAGGGABAA GAGGGGGAAAGGGGGGGGAAAGGAGGAAAAGGGAAGAAAGAA G G A G A G G A A A G G A A G A A G G G G G C C G G A G G C A G C A G G G G G A A G
 G G GAGGAACACCAGGGGGGGAACCCCGAGGGGAAAGAGCAAG
 G GAAAAAGGAAGAGGGGAGGGAAAGGAACCGGGGGAAGACAA G GCCAAAAGGAGGGGAAGGGAAAAAACAAGGGAAAAAGAGAA GACCGGGGGGAAAAGAGGCAAAAAACGAGGAGAGCAAGGGGG G G GAAAGGGAGAAAAACCGGAAGGAAGGACAGGAACAAGGAC A G GAGGCCAAAAAAAGGGGAAGAGGGAAAAGGGGAAGGAAAA AAAGGGGGAAGGGGAAGGGGCAGGACAAGGAAAAGGAAGGAG AC GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A A C A G A G A G G G G G G G G A A G G C A G G A A G G G G$ C C A G GA $A \operatorname{GAA} C A G A G G G A A A G G A A G G G G A A G G A G A G G G A A C A$ A A G G A A C G G G G G A G G G G A G A G G G G A A A GAGGGAA G G G G A A A A $G G G G G G A G A A G A G G G G G G A A G G A A A A A A A A A A A A A A G G A G A A$
 G GAAAATTGGCCGAATGGAAAAGAAACCAAAAGAAGAAGAGG GAGGAACCGGCCAGGGGGGGGGGGAGCCGAGAGACCAAACGG CAGGAAGGGGAAGGAGAAAACACAAAGGGGAACCACCAGATA ACAAAAAGAAAGGGGGCCAAAAAAGGCAGGGGGGCAGGAAAA GAAGGAGAAAAAAGAAAAAAAAAAGGACAACGTTGAACAAGAG G G GAAAAGGAAGGGAGAACCAGCAAGCCGAAAAAAAAGEGAA G GAAAGAAAAAAAGGGGGGGAAAAGGCGCCAGGAGGAAAAAA G GAACCAAGGAGAGGGGGATAAAGAGGAAAAGACAACAAGAA AAAAGGAAACAAGGGAAAAGAGCCAAAAGGGGAAAGAAAAGG GAAGGGAGAGAAAAGGAAACGGGAGGAAGACCAACAAAGGGG A A A A G A A G G A G GAA A GAGGAACAGAGAGAAGGGGCCGGAAAA G GCAAGGGAACCGAAAGGGGAGGAAGGGAAAAGGCCATGAAA AACCAAAAGGAAAAGGGAAGGAAGAAAGGAACAACCGGGGGG A A C C G G G G G G G A G G G A G G G C G A A A A A G G G A A A A A A A G G G G A A $G G C C A A A G A A A A G A A G G G G G A A G G A A G G C C A G G G A G C C A G A G$ G G A G G G C A A G G A A G A A A G G GAA A G G G GAAAAA A A A G G G G A A G G G GAGGAGGGGGGGAAAGGACAAGGGGAAAAGGGACCGGCAAG $C \subset G G G G A A A A A A A A A G G G A G A G A G T A A A G G A G G A A G A G A G A A$ G G G G A A C C A A G GAA $A \operatorname{G} G A A A G A G G G G G G A G G G A A G A A C A A A A G$
 GGAAGGGAAGCCAAGGAAACAAACGGGGAAAAGGAAAAGACA $A C C A C C A G A G G G G A G A C A G A C A G G G G A A C C A A A A A A G G G G A A$ G G G GAA A A A A A GCC G GAACCGGGAAAGGGGACAAGGCC G GAA
 G GAGAGGAGGAACCGGAAAAGGCCGGAGCAGAAAGGGGAGAA $G G A A A A G G A A G G A A G G G G A A A G T A G A A A G A G G A G G A G G G G G G$ A A G G GACAAGCCGGAAGAAAAAGGTTAGAAAAAGAGGAAGAT CAACAAGGGGAAGGAGCCGGGGGGAACCAAAAAAAAAAAAGG A GAGAAGGGGAAAAAGCCAAAAAAGAAAGGAAA GAAAA G GAAA GAAGGAGGGGAACAGAAAAGAGAAAGCCGGCCAGGGGGGGGG A A G G A GAGAGAAATCCGAGGGGAGAGAGGAGGGGGGGAAAAC A A G GAGGGGGAGTAAAAAAGAGGAAGAGAAACAGGGGACCAC G GAA $A \operatorname{GCA} A A C C G A A G A A G G A A A A G A A A G G G G C C G G G G A A G G$ AACACCAAGGAACAAGAAGGCCGGGGGGAGCCAAAGAGAGGA GAAAAAGGCCGGGGGGGAGGACGAACAGGGCCAAAGAGAGAA A GAGGAAGGAGAGAAGGGAGAGAACCGGGAAGGAAAAAGGGG

 A A G GAA A GAGAAGAAACAAGGAAAGGAAAGGAA GAGGGGGGA

CCGGAAGGAAGGAAAATTGGGGAAAAAGAGAAGGAAGEAAGA A ACCAAGAGGGGCCGGAGGGGAAAGGGGCCAGAGCCAGAACC C CA A A A G G G G G A G G A G A G G G G G G A A A G G G A G A G G G A GAAA $A$ A AAGAAGGAGGAACATTCCAGGAAAGGCCGGACAAAAAAAAGG G G G GAA A G G GAGGGGGCCGGGGAGTAGGAAAAGGAACCAAAA
 GAAC $A \operatorname{AAACGGA} \mathrm{~A} A A C C A G G G G G G G A A C C G A G A A G G G G G A G A G$ G GAGCCGGGGGGAAGGGGAAACAACAGGAGAAAAGGGGGGGG GAGAGGAAAGGGGGCCGGAAGGAAAAGGGATTAAAACAGAAA AAAGAAAGAGAAGGAGGGGGAAGGGGAAAAGGAAAACAGGAG G GAGAAAAGGAGAAAAGGCCGGTTAAAGAGAAGAAAGGAAAA A A G G G GAAAGAAGAAGGAAGGAAGGAGAAGCCGACAGGAGAA AAGGCCGGCCCAGAAAGAAGCCAAGAAGAGAAAAGGGGGGAG AAAAAAGGCCGGGGAAGGGAAGAAGGGAGGGGGGAAGAAAAG G G G G G GAA $A$ A A G GAGGCAAAACAGAGAGGGGGAACCAAGACC ACAAGGAAAAGGGGCCAGGGGGGAAGGAAAGACAGAAAGGAC A A A GAA A A A G G GAGAGAAGGGAAGAAGAGGAAGGGACAAAAA GAAAAGACGGAAAAGGACGAGGCACCACACAAACAGGGAAGG AAAGGGGGGAAAACGGGGAAGAAAAGAAGAAAGGCAAGAGAA G G G G G G G G A GAAAAAGAAAAAAGGGGAACCCCGACAAGACAA $C \subset A A G G G G A A A G A A G G G G A G A A A A G G A A A A G G A C C C G G A A A A$ GAGGAGACAAGGAAGGGGACAGAAGGAACAGGAAGGAAGAGG A GAA A A G GCCAAAAAGAGCCTTGGAAGAAATAAAGGGGGGGA G G G A G A G G G G G G T T A A $\mathcal{A} G G G G G A G A A A C G A A G A G G A G A A A G G$ AAAGGAGGGGAGGAGAAAGGGGATAAAAAAAGAAGGGGAAGG GATTCCAACCAAAGAGGGGGAGGAGGTAGGAAAAAAAAGAGG AACAGGGGAACACAGAGGGGGAACGAAAAAGAGAAAAGAAAG GAAACCAAAAAAAACAAAGGGAGAAACCAAGGGGAAGBAAAA C C GACCAACCAAGGGGAAAAAAAAGGGGGGGGGGGGAAAACC $G G A A C C A A A A A A A A G G G G C C G G C C G G G G G G A A A A A A G G A A G G$ G G G GAA $A \operatorname{GAA} G G C C A A G G A A A A A A A A A A G G A A G G A A C C A A G G$ AACCGGGGGGAAGGGGAAAAAAAAAAAAGGGGGGAAAAAAAA GAGGAAGGAAGGAAGGGACAAAAAAAGGCAAGCACCCCAAAAA G GAAAGAGGAAGAGAGGGCAGAAGAGAAAGCAGGAGAAGGAA A A GAGAAAAGAGAAAAAAGGAAGGAGGGAGAGGAGGGAAAAA G G G GACAGGGCAACGGAAGAGGCCACAACCAAAAGAAGAGAG AACGAACGGAGGGGGGGAAACCGGAAAAAACCGGAAGGGGCC
 GAGGAGACGGGAGGAGAAGGGGAAAGAGCCAGGGCCGAAGGG A GAGAAAAGGCCCCGGAGAGGAGGAAGGAAAAAACAGEAGAA GAGAAAAGGGAAAAGGAAGCAACACCGGGGCAGGAAGGGGCC A A A A G GAA A G GCGGTTAGAAGAGGAGCAGGGGAAGACCCCAG GAAAAAGGAAGGCCAGAAAAGGAGAGGGGGAGGGAGCCAGAA G G G G A A A A A A A GCCAAGGAAAAGGCCAAAAAAAA GGGGACAA A ACCGGAAGGGGGAAACACCGAGGAAGGAAGGGGAAAAAAAA A A A A GAGGAGAAGACAGAGGAGAGCCGGCCAGAGAAAAACAA GAGGGGGGGGAAAAAGGACCAACGAGGGGGGAAAAAAGAGCG CAA A A A GAGGAAGGAGGAGGGGGGGAAAGAGAGAAAGAAACC A A G G GAAA $A \operatorname{A} A A A \operatorname{A} A A G G G A A G C C A A C C C A A A C C G A G G G G G G$ C C G A A A G G A GAGAGCAGAGAAGCCGGAAAAGGAAAGAAAAAA C CAAAAAGCCGGCAGGAGCAAACCAAAAGGCAAAGGGGGGGG
 C C A A G A G G G G A A A A A A G G G G A GAACCGGAACCGACAAAAAGG G GAAAAAGAGAAGAAAAAAAAACCAAGGAACCGAAACCGGCC G G TACAGGGAAGAGGAAGGAGGAAGAGGGGAAGAGGA
 A G GAGAGGCCCCAAAACAAAAGGGGGGGGAGGGGATAAAAAA C C G G G G G G A A A C A G G G G G C C G G G G G G G A C G A G A A G A A A C A A G GAAAAGACAAAGAGAGGAAGAAGGAAAAAACCAGACGAGGGG

AACCGGAGAAAGGAAAGAAGGAACGGAAAGGAGGAAGGAAAA
 CAGGGGAGAACCGGCAAGAAAAGGAAAGAGAGAGCCGGAAGG GAGGGAGAGAACACGAGAAAGGGGCAAAAAAAAACCCC GAAA GA $\operatorname{A} A A G G G G G A A G G C C G A G G A A G A A A A A G A G G G A G G A C G G C C$ A A G G G G G G A A GAGGGACAAAGGGGAAGGAAGGGGCAAAAAAA G GCCC G A A A G G A G A G G G G G G G G G G G A A G GACCGGG GAAAA G G AGGAGAGGGGAAGGCAAAAAAACCGGCCAACCAAAGGGAAGA A G C C G G G G A A A A G G G A A A G G G G A A G G C C G A A A A A A G G A G A A G GGACAAAGAAAAAAGGCCAACCAGAGAAGGAAGAAAAGAGGA
 GACACCAATTAACCGGAACCGGGGAGAAAAAAAAGAAAGGGG
 $A G C C A A G A G A A C A G A G A G G A G G A G C C G A A A G G A G C C G A A A A G$ G G G GAAGGAAGGAAAGGGAGCCGGAAAGAAAGACAAAAAAAG A GACCCTAGGGAGGAGAAAACCGAGGCCTTAGGGGGCAAAGA G G A A A A A A G G G GA $A \operatorname{GA} A G G G G G G A A A A A A A A A G A A A G A A A A A$ $C \subset G G G G C C G G G G G G G G A A G G G G A A G G A A G G A A G G G G A A A A A A$ G GAAGGGGAAGGCCGGCCAGAAAACCACGGGGGGAAAAAAAA A A G G C C G G A A G G G G G A C CAACCGGGGGGAAAACC GACAAA G G G G G GAAGGAGCAGGGGCAATGGGGGAGGCAACGAGAAGAGAA AAGGAACCAACAGAAGCCGGGGAGAAAAGAGAGACAAGAACC GACCAAAAGAAAAGCAAAAAGAGGGGAAGGAAGGAAGGGGGG A A G G G G A A G G A A G G A A $\mathcal{A} G G G G G A A G G G G G G G G A A G G G A A A A A$ AAAGAGGAAAAAGGAACCGGAAGAAAAAAAAACCAAAAAA GA G G G GAACCAAAAGGAGAAAAAAGGAAAAAAAATTAGCCAGAG ACAAAGAAAGGAGGGAATAAAGCAGAAGAACAAGGAAAGGAA AAAGAACCGAAAGGAAGGACCCAAAAGGGGAAGGGGABAABAA G G A A A A A A A A A A G GCAGGACGAGACAAAAGGGCAAAGAGGAG A GAAAAGGACGGAAAAGGCAGGGGGGGAGACCAGAAGGAGAG A A A A A A A A A A G G A A A A A A G G A A A A A A A A A A G G G G G G G G G G A A GGCCTTGGGGGGAACCAAAAGGAAGGAAAAAAGGAACAAAGAG G G G G A A A A G G G GAAAAGGGGGGGGAAGGAAGGCCAAGAAACC
 G G G G G G G G A A A A A A G G G G A A A A C C G G C C G GCC G GCC G G G G C C G G G G G G A A G G G G G G G G A A G G G G A A G G G G A A G G A A G G G G G G A A C CAA $A \operatorname{GAA} A A G G A A G G C C A A A A A A G G G G G G A A A A G G G G A A G G$ A A G G G GAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACAC G G G G G G A A G G A A G G C C G G A A G G C C G G G G G G G G G G C C G G A A A A
 G GAAAACCGGAAGGAAAAAAAAGGAAAAGGAAGGAACAAA GAG
 GAAAACCCAGGAAGAGACCCGGCCACCCAAAAGGAGGGGGAAA G GAACCAAGGGAGGGAAGGGAGCCGGACAAGGGGACAGAAGG
 C C G G G GAA $A \operatorname{GA} A C C A A G G G A G G G G G G C C G G A A G G G G G G A A B A$ G G A A G G GAA $A \operatorname{AGGGGGGAAAAAGAAAGCACAGGGAAAAGAAGG}$
 AAAAGGCCAAGGAGAAGGGGAGAAAAAGAAAACCGGAAGGGG A G G G A GACCCAGGGCAGGAAAAAGGGGGGGAGAAA GGGAGGG G GAAA A GAAGGAGACAGGCCACGAACCCGGAGAGGGGGCAGG A GAAAAGGGGCCAAGGAAAGACCCAGGACAAACCGACAAGEG GAGGAAGGGGAGCAGAAGGGAACCAGAAGGGGAAAGAAAGAG GGAACCAGAAAAAAAAGGGGAAAAGGAAGAAGAAAAGGAAAG GAGGGGGAACGAAGACAGGGAAAAAAAAGGGAAGAGAAGGAG G G G A A G G G GAA $A \operatorname{GGGCCAAGAAAAAGGAAAAAAAAGGCCAGGG}$ G GAA $A \operatorname{GAA} A \operatorname{A} A G A A G G C A A A C A A G C C G G G G A G G A G G A G G G G G$ $G G A A G A A A G G G C G A G G G G A G G G G A G G A G A A A G A G G A A A A A G A$ GGAACCAAAGGAAACCAAGGGGAAAACAGAGGGGGAGGAGCC
$C \subset A A C C A A G G A C G G C C G G A T G G G G A G G G G G A A A A G G A G A G A A$

 AA $\operatorname{A} G A A G G G G A A A A A A A A A A A G G G G G A A G A A G C A A C G G G G A A$ G G G G G GCCAAGGGGGGGGGGAAAAGGAAAAAAAAAATXAACC G G G G G G A A A G C C A G A A G A G G T T G A A A GAA $A$ G GAA A GA G G A C G G GACCGGGGAGGGGGAAAACCAAGGGGAGAACCGGCAAAGAGA GGAAGAAGAGGACCAAAAAGCCAAAAGAGACAAACAGAAGGA G G GACCAAAAGGGGGGAAAACCAACAAAACGAGAGGAAAAGA
 C G G A A GAGAAGGGGAGAAGAGGAAAAACAAGGGGGAAAGAAA G G A A A A A A C C A A A A A A G G A A A A A A GAAA G GAA G GAA G G G G G G G G GAAGAAAAGAAGGGAAACCAAAAAGAGAACGGGAGGAAAG $G G C C A A C A G G A G C C A A A A G A C A G G A A A G A A A A A A A G G A C A G A$ G GAGGGAAAGGGAAAAAAGGAAAAGGGAAAAAGGCCAGGGGG G GAAAAAGAACCAACCGGAAAAAGAGAAAAAAC GAAAG G GAA G GAGAAAACAGGAAAAAGGGAAAGTAAAAGGGAGAGCCACAA A G A A A A G G A G A A G GAA A G G A GAGAGGGAAGCAGGGGGAAAAG $G G A A A A G A C A A G G G A A A G G G A A G A C C A G G A G G G G G G A A G G G G$
 A GAGGGAAGGGGGGAAAAGGAAGGGGGGAGGCAGACCCAAAG CAAAGGGAGGAAGGAAAAAAGGAAAACCGGACAAGGGGAGGG ATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAGB C C G GAGAGAAGAGAAAGGAACCCAGAAGAAAAAAA GAAAGCC $G G A A A G A A A G A A A A G G G A A A G G A A G A G G G G A G A A A A C C A G A G$ A ACCAAAAAAAATTAAAAGGCCAAGGGGGGGAAGGGCAAAGA A G GACGAAAGCCTAAGAGGGAGGGAGAAGGGAGGGGAAAGGG G GAGCAGGGGGAAGAGAACCAAAAAGCAAAAACCGGAAAAGG G GCAA C G G A A A ACGCAACAGAAGGCCAAGACCGAGGGGGGGG G G G G G GCA $\operatorname{C}$ GAACCGAAAAGGGGGGAAAAAAAAAAAAAAACGG G GAGCACCAAGAGAAGACTTGGAAAAACCAAAAGATAAATAA A A A A A A G A A A A A GAGGGAAGAGGAGAGGAGAAAAG GAAAAAA AAAAAAGGGGAAACGGCCAAAAGACGCCCCGGGGAAAAAAGG A A G A G G A G C G A A A G A T G A A G G G A C G G C A A GAC G C C C G G C C G G G GAA A A A GAGGGAAAAGGGATTCCAAAAAAAGCCGCGAGGAA $G G A C A G C C A G G G A A G G G A A C A G A A A G G A C C G G A A G A A G A A A A$ G G TAAAAGAGGGGGAAAAGGAAGGAAAGCAAGGGCAGAAAGA G GAAAA A A G GAAGGAGGGGAGGAAAGGGAAGGAAGGCCAGAA
 A CAACCAAAAAAAAGGGGAAAAGGGGAGGAGAAAAAGGGGAA T TAA A A A G G GAAGGAAGGGGGGAAGGAAGGGAAGAAAAGGAA G GAAAAAAAAGGGGGGACAGGGGACCGGAAGGGGAAAAGGGG G GGGAAAAGAGGAAAAACAAGGAGAGAAAGGAAAGGAAAAGA G G A TAGGAAGGAACGGGGCCCAGAAGAGGGGGGGGGAAGAAA A A A G G G G G G G A A A A G G A G G G G G A A A A A A G G G G G G GAAA A A A A
 A G G G G GAA A A G GAAGGAACCAAAGGGAAACAACCAAAAAA GA A GAATTAATTGAAAGAGAGGAAAAAGAAGGCGAAAGAATTAA AAAAGAGGGGGGGGGGCCGGGGGGAAAAGGAAAGAGAGAGAA AAAACCAAGGAGAAAAACAAGGAAAGAGAACAAAGGGGAGAC G GCCAA GACAAGACAAGGCACCGGGGAAAAAGAACCAGAAGG AAAAGGGCAAGGAAGAAGAGAAAAGGGGGGGGAAGGAA GAAA C C G GAA $A$ G A A A A A A G GAGAGAACCGGAAAAGGAAAAGGAGAA G GAGACGGAGGGAGGGAAGAGGAAGGGGCAAGAAAAGGAAGA A A G G G GCCAAGGGAGGGGCCCCACCAAAAAAAAAGGG

GAAAAGGGGCCAAGGGGACAGGAGGAACCAACCCCAAGAAG AAGGAAAAGAAGAAAACCGGGGGGAACAAAGGGGAAAAGAAG A G A A A T G A A A A A GAGGAAAAAGGGGGGGGGAAAAAACCAAAA G GAGAGAGAGGGAGAGAAGGGGAAAAAAAAGGGGAAAAAGAA

CAAAGGAAAAGGAGAAGAATAGAGCCAGAAAGCCAACCACAG AACCCCAAAAAAAACCAAGAAGGAAAGGAAGGAAAGAAAAAA $G G A A C A G A G G G A G G G G A A A G G G A A A G G A A C G G G G A T G G A G A A$ AAGGGGGAAAAGAGCCAAAGGCAGAGGAGAGAGAGGAAAGGA GAAGGAAGCCAAGGGGGGAAAAAGCCGGAAGAAGAACCCCGG G GAGAAAAAAGGCCGGAAAAAAAAAAAACCGAGGAGAAAAAA A A A A A A A G GA G GAAAAAAAAGGAGAAGGGAGGAGGGAGAGAA AAAAAAGACCCCAGGGGGAGAGGAAGAAGGGAAAAAAGGGGG CAA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} A A A A A A A A G G G G G G A A G G G G A A G G G G A A G G A A G G$ $C C G G G G G G C C T T G G G G C C C C A A G G C C A A G G G G A A G G A A A A G G$ G GCCGGCCGGAAGGGGTTAAGGAAGGAAAACCCCAAGGAAGA G G G G G G A A C C G G G G G G G G C A GAG G G G G G G A G G A A G G G G A A A $G$ A G G G A A A A C C G A A G A G G A A G GAGGGGGGAAGGAAAAAACC G G $G G A C T T C G G G G G A G A G A A G G G G A A A G A G G A A G A A G G A A C A A A$ A GAA A A A A GAGGAAAACGAAGGGGGGGAGGAAAAGGGAAAGA
 G GAAGGCCAGAGAAGCGAAAAAGAGAGAAAAGAAGGAGAAAA T T TAA $A \operatorname{G} G A A A A A A A G A G A G A G G G A A G A A G A G G G A A C C A A G A$ A GAAAAGGGGCCGAGGAAAAAACCCACCAAAAAAGAAGAATT A A C A A T G G G C A A C C G G G G G G G A GAGGGAAAGAGAA A A A A A A A A GAGGGAAGGGAAAGAAAGAAGGAGGGGGAAGGGAAAAGACAA G GAAAGCAGGGAGAAGAGGGAAGGAAAAAGAAGGGAGAAAAA $G G A G A A A A A A G G G A G A T T A G A G A A G A G G A G G G A B A A G G G G G G$
 G G C A G A G A G G G G G G G G G G G C G G G A A G A G G A A C C C C C A A G G G A G G GACCAAAAGGAGGGCCAAAAGACCCAGAGAGAGAAAGAAA
 GAGAGAAAGGAAGGGGGAAGAAGGGGGAGGGGAAAAAAAAAG A G G G A A A A GAAAACAAAAAAAGAAGAAACCAAGACCAGAABA $A G A A G G G G G A A G G G G G A A A G A C A G C C G A G A G A A A A A G G A G A G$ A G G G A GCCAAGGCACCGGGGGGAAAAAACCCAAGCCGGAGGG GAAACCGAAACCGGGGGGGGAAAGAAGGGGGGGGTAAAAAAA A A GAA A GAAACCAAGAGGGAACGGAGGGATCGAAGAGGGGAC
 A GAGAGGAAGACGAAGAAGAGGAAAAAAAAAAAAAAGGAA GA A G GAA A A A A GCAGGGGCAGACAGATTAAAAAAAGAAGGAGCC G GAGGGAACCGGAAGAGAGAGGAATTTAAAAGGGGGGACAAA $G G C C A G G G A A A G G G A G A A G G A A G G G G G G A A G G A A A A A C G G G G$ C C T A A A G A A A G G G A A G A A G G A A A A A A G G CAAGGGGAAAAAAC
 $G G A A A A A A G A A C G A G G G A A G G G A G G A G G C C A C A G A A G G A C A G$ A A A A A A A A A G GAGGGGAACCGGAAGGAACCAAGGAAAAGGGG A GAAAGGAAAAGGCACAGGGGAGCAAACAAACCCGGAACCTA
 $G G C C A A A A G G A A A A G G G G A G A A G G A C G G G G G G A A G G G G A G A A$ A A G G G G G G A A G G A A A A A A C C G G C C A A A A G G G G G G G G G G T TA A C C G G A A A A C C A A G G G G G G C C G G G G A A G G C C A A A A G G G G A A G A A A G GAAAAAAA A $A \operatorname{A} A A A A A G G C C G G A A G G G G G G G G G G A A G A A A$
 G GAA A G G G C C G G A A G G A A G G G G G G G G A A G G A A A A G G G G A A A A C CAA $A \operatorname{GAAAAAGGAAAAGGAAGGAACCGGAAGGGGAAAAAAGG}$ G GAGAAGAAACCAACCGGCAGGAGAAGGGGGAAGAAGAAGAG G G G G GACCAGAAGGGAGAAGCCAAGGGGCCAAGGGGGGCCAA G G G G A A A A A G G G G G A G A A G G A A G A A G G G A GAA $A$ G A A G G A C A A $A \subset A G G G G A G G A G G G A G G A G A G A A G A A G G G A G A A A G G G G A G G G$ G GAGAAAGGGAGCCAGAAAAGGAGGGGGGCAGGGGGAGAGCC $A G C C A G G A G G A G A C G G T T A A A A C C A A A G G A G G G A A G A B A A A A$ G G G G G G G G A G A CAA $A \operatorname{G} G A A A G A G G G A A G G A A A G A A A A A A A G A C$ $A C G G G G A C G G G A A G A G G A G A A A G G C C A G A A G A G A A A C G A G G A$

G G G G GCAAGGCCAAGGGGGGCCGGCCAAAAGGGGAAGGGGAA
 $A G A C G G A A G G A G G G A A A G T T A G G G A A C C G G G G A G A G G G A A C C$ G G G G G GCCACAACCGACCAAAGGGAACAGGAGAGGGGGAAAC TACAGACCACGGGGAACCGAAAAGACGGGAAAGGGGAGAACA AAAAAAGGAACCAAGGAAGAAGGAAAAGGAGAACCCGAGAGG G G GCGGCCAAAAAAAAAAAAAAGAGGGGGGAAACGGCCAAAA CCGGGGGGGGCACACAAACAAAGGAAAGAAAGAAA GAGGGGG A ACCGAAAGAGGAAAAGGGAAAAAGGAAGGAAAAGBAGCCGG $C A C C A A A G A A G G G G G G G A A G A A A A G G A G A A C C G G A C A G G A A A$ G GAA A G G G A A G G G A A CAGTTAAGAAAGGAGAGAAAAA GAAAA
 $G G C C A A A G G A A G G G G G G G A A G G G A G G G G A A A A G G A G C C A A C A$ A GCCGGAAAAGGAAAAAGGAAGACCCGGAGGGAAAAGGAAAA AAAAAGGGAAGAGGAAAAAAGGAACCAAGGGGAAAAACAGAA CAGGGGCCCCAGAGGAGAAAAACCAAAAGAAGGGGGAAAGAG $A G G G G A G A G G A G G A G G G G A A A G G G A G G A G A A A G G C C A A A A G G$ AAAGCAAGGGAGGAAGAAGGAAGGGAGGAGAAGGGGACAGAA GAAACAGGAAAAAAGGAAAAAAGAGGAGGGCAAAAAGGCCGG TATTCCGGGACCAGGGAAGAAGGAGGAATTAGAAGGGGAGAG AAAGGGAAAAAGAGGGAGCCGGGAGGGAGAACAAGGGGAGGA
 GAAAAGAAAAAAACAGGAAGGAAAAAGGGGGGGGAAAAAAGG G GACGGAGCAGAGAAGAGGGAAGGGGAGAGCCAAGGGGGGCA $G G A G A A A G G G G G G A G G A A A G G A A G G A A G G A A G A A A G A A A G A A$ AAAGAAGGAGGGAACCACGGGGAAGAGGGAAGACACAGAGAA A GAAAAGGGAGGCCAAAAGGAAGGAAGGAAAAGAAAGAAGGG C C C C G A G G C C G G A A A G A G G G G GAGAACCGGCAAAAAGACCAG A A G G A A G G G G A A C C G G A A A A GAGGAAAAGAGGGACCAA G G C C $C$ CCGGAACCAAGAAAGGAAGGGAGAGAAGGAAGAGGAGGAGAA G G G A C A A G GAGGCCGGGACAAGAGGAAGGGAAGAGGGGAAA G $C C G G A G A G A G A A C C C C A A A A G G G G A A A A G G A A A A C C G G A C A G$ ACA GAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTTGGGG G G G G A A G G G G G G G G A A G GC C A A G GCC G G A A A A A A T TAAAAAA G GAA $A \operatorname{G}$ GAAAAAAGGAAAAAAAAAGGAAAAAAAGGAACCCCCC A A GACCGAAAAAGGAAAAGGAAAAAAAAGGAACCGGGGAAAA A GAGAAAAAAGGCAGAGAAGAGACCCAAGGCGGGGGAAAAAA G GAGAA $A \operatorname{GGGGAA} C G G A A A A C A G G G A A G A C A A A G G A G G A A A A$ ACGAAAAGAGAGGAGGAGCAGGGGGAGACAAGAAGAAAGGAA A A G G A A A A A G GACCAAAAGGGAGGCAAAAAGAAGAAAACCBG C G A A A ACCAAAAGAGAGGCAGACAAGAGAGAGACAGCCGAAA A G G A G A G A C A A G G A G A A A G A A A G G A A A A G G GAC C A A G G G G A G GAATAAAGCGACGGAGAAGACCGGAGGAAAGGGGGGGGAAAA AACCAGAGCACAAAGAAAGGGACGAGGAAAGAGGGAGGAGCA A G G G A G A A G G A A G G G G A C A G A A A GAC GACAGAAATTGACAAC A A A A A A C C G G A G G G A G G G A A G A T A A G A G A G A A G G A G G G G G G G C C A A G G A G A G A GAGACAAAGGACACCGAGAAGAGGAAAGCGG A GAGCCAAGGAAGGAGAAAACCAGAAAAAAAAGAGGAAAACC A GAGGGAGAAGGAAGGGGGGGAGAGGGAGGGGAAAACAAAAA A GAGAGAGCAAAAAGGAAGGGGAAGGGGAAGGAAGAAAAGAA G G A A A A G G G A A A G G G G G G G G A A G G G G A C G G A G GA G G G G C C A A
 $G G A A C C A A A A A A A A A G G G C C C C G G A A A A G G A A G G A G A A A A G A$ G G G GAGGGCCAAGGAGCAAATTAGGAGGAAGAGGAAAAGAAA A A A A GAGGAAAGAGAAAACCAAAAAAGAGGCCAACGC
CAAAGAGAAGACAACAGAGAGAGGGGAAAAGAAGAAAAAAG A GAAAACCGGAAAAAAAGAGGGAAGGGAGGAACCGBAAGGGG G G A A G G A A A A A G G A G A T T G A A A A G G G G A G G GAA G G A A A A G A A CAGAAAGGGGGAAATTACCCGGAGAGGACCAAGGGAAGAACA

A G G G G GAACAGAACAAAGGACCAAAAGAGGAGAAAGAACAGA
 $A G A A G G A A G C A A A A A A A A G G G A G G G G A A A G G A G G A A G G A G A A$ GAGAGGGGGGGGGGAAAAAAGGACAAAAAGAAAAAGGGAAGA AAAAGAAGGGAAGGACAAGAGAAACCGGAAAAAAAGGAGACC A GTTAAAGAAAAAAAAAAAGGGGAAGGGAAACAAGGGAAACA AACCCAACAAAAAGAAAGAAGGAACCAAGGAAGGGAGGAGAA AAGACAGGGACCAAGGGGCCGATAAAGAGGGGCCAAGAGGGA GAGAAAAAGGAAGGAAAAAAGGAGAGCCGGAGGGAAGGCAAA AAAAAAGGAGAAGAGAAAAAAAGGAAAAGGGAAAGGAAAAGG GACCAGGAGAGAGGAAACAGAAGGAAGGAAAAAAGGGGAAAC G G A C A A A A G G A G G G CA $A \operatorname{G} G A G A A A G G A G A G A A A A G G G A G G G G G$ GAGGAGGGAACCAGAAGGAGGAAGAGAGCCCAGGGGGGAAAA
 A A GAA A G GA $A \operatorname{AG} \operatorname{A} A A G G G A G G A A G G G G G G A A A A G G A G G G A G A G$ G G G GAGAGGGAAACGGAAAAGGAAAAGGAAAACAAGCAGAAA A A A A A A GAAAACAAAAAAGAAAAAGGGGGGAGGGAGAGAGAG C CAGCGAGGGAAGGGAAACATAAAGGAGAGGGAAACGBAAGA $G G C A G A A C A A G A A A G G A A A C G A C A G G A A A G G G T T A A A A G A A A$ A A G G G A A A G ACAAACAAAAAAAGGAGAAGGAACCGGAACAAA GAAAGGAAGGAGAGAAGGGGAAAAAGGGGGGGGAAACCAGAA ACAGGGGAGGAGGGAACGACACAGGGGGGAGCAAAAGAAAAA GAACAAAGAAAAGGGAGGAACCAAAGAACCCAAAAAAGGGGG A G G G A A A A A G A G A A A G G A G GA $\mathcal{A} G G G G A A A A A A A A G G G G A G G G$ GAAGACAGAGAGAGAGGGCAAGCAACGGGGGAGAGGGGAACAC GAAGGGGAAAAAAACCAAGGGGGAAGAAGAAAAGAAAAGGGA AAA $A \operatorname{GA} A A G G A A G A G G A A G G A A C C A G C A C G G G G G A G G G G G G G$ GAAGGGAAGGAAAGAAAAAGGGAAGGCCGGAAAAA GGGGGGG GAGGGGGGAAGGACAAAGAGCACAAAAAAAGGAAAGAAGGGA GGGAAGCCGAGGAGGGGAAAACCCAAGGGGAAGGGGAACCGG A G A A A A G G G A A A A G G G A A A A A A G G G GAA G G GAC CA GA GAGCC AAAACCCCCCAAGGAAAAGGAAGGCAGAAAGAGGAGGAAGAG GGCCAAGAGGCAAGGGAACCCCAGGGAAACGGAGGGAGAAAA C CAAACAGGGAAAAAAGGGGAAAGAGAAAGGAGGTTAAAAAG G GAGGGAGACGAGGGGACGGAGGGACGGGGGGGAA$G A A A A A G G$ G G G G G G A A $\mathcal{A} A G G G G G G A A G G A C G G C C A A G G G G G G A A G G A A G A$
 GA $A$ A $G A G A A A G G G G G G G A A G A G A A A A G C A G G G A A A G G G G G G G$
 AACCAGCAGAAAACGGAGAAGGAAGGAAAACCGACCGAAGAG AAAGGGAAAAGGGGGACCGAGGGGAGGGACAACGGAACAACC
 A GAAGAAGGGAAGGGAAAGGGGAACAGAGGAAAGAAGGGGAG C C A A G G A G A A A A G G G G A A G G A A G G G G G G A A G G A A A A A A A A G G A A C C G G A A $\mathcal{A} G G G G G G G A A G G C C G G G G A A A A A A A A G G A A A A A A$ G GAA A A C C G G G A A A G G A GCCGAGGAGGGAAGGGGGGAAAAAA G GAA A GCCTTGGCCCCGGCCGGAAGGGGAAAAGGGGGGGAAA G G G GAACCGGGGAAAAGGAAGGAAAAGGGGAACCGGGGAGAA AAGGCCGGGGAAGGAAAAAAGGGGGGCCCCAAAAGGGGCAAA A A G G G A G G A C G A G G G A A A G G G A A A G G A A G G G G G G A A G G G G A A A A G G C A A A A A A G G G G G G G G G G G G G G GACACAAAAAAA AATAG AAAACCAAGGGGAAAGCAGAAAGAGGAAGGAACCAGAAAAAG
 G G G G A G G A G G G A G G A G G G G G G G A A G G G G T A G A A A G G A A A G $G A$ C C G G G G GACCAGAGAAAGAGGGAGAGAGAAAGGAAAGAGGGG GAAAAAGGAAGGGGAAGGGGGGGACAAAGCGAAGATGAAAAA C C G G GAGGGGGAAAAAAACCGGAGGACCAAAGGGGGGGAAAA G G A A A A A C C C A A G A A G G G G GCCCCCACAAGGCGCACAAA GC G A G G G G G A A A A G G G GAGAGGGGACACGGAAAAAAAGGAAACCCC

AAAAAAAGGAACGGGGAAAAGGGGAGAGAAAACCGGGAAAAA G G G G A A G G G G A A A C G G A C T A G G A C G A A A G G G G GA G G G G A A G G G GAA A A G G G GAGGAAAAGAAAAAAGGGGAGGAAAAAAAAGAG CAAAGGGGGGGGCCCCAACCGACCGAAAGGGGGAACGGGGGG A GAGGGGGCCCAAGAAGGGGGGGAGAGGAAGAAAAAGAGAGAA G G G GAAAGCCAAGGAAAAAGAAAAAGCCCCAAGGACAGGACC G GCCAGAAAAGGGGAAGGAAAAGGAAGAAAAGAGGGAAACGG CAGGGGCCGAACCCAAAAAAAAGAAAACGGGGAACCAAAGCC A G G G C A G G A T A G G G G G G G A A A A G G A A G G G A G G G A A A C C A A G A AAAAACCCCCAAAGAGAGGGGGCCAAGAACAAGGGGAAGAAG
 GAAGGGGGAGGGAAAGGACAACGAGGAAAAACBAGAAAGGGG AACCCCAGAAAAAAGAGACCAAAAAAAAGCAGAAGAGGGGAA G G G G G A A A C CA A A GA G G GAGGGC CAA G GAAAAAAAGGGGCC G G G G GA GAAAAGGGGAGGAA GAGGGGGACGGCAGGGGGGGGGG
 G GCAGGCCAAAAAAGGCAGGGAAAGGAACCAAAAAAAAAAAG A A G G A A G A A A A A G G GAGGCCGAAAGGAAAATAAC GAAAAA G G CATTAGAAGGCCGGGGTAAAAAAAGGAAGGGGAAAAAAAAAA G G A A A A C CAAAACC G G G GAAAACCGAAAAGGAGGGAGGAGAA $A G G G A A A A G G G G G A G G A G A G A G G G G A G A A A G G T T G G A G A A G G$ G GCGGGGGGAGAGGAAGGCACCGAGAAGGAACGAGGAAGGGC $A \subset A A C C A G G G A A G G A A G G A A A A A A G G T T C C G G C C C C G G G G G G$ GGCCCCAAAAGGAACCAACAAAAGAAGGGAGGGGGGAAAGAA $G G C C G G G G G G G G G G G G G G A A G G A A G G A A C C T A A A G G A A G G A A$ G GAGGAAACCAAAAGGCGAGGAGAAACCGAGGACTTGGAAGA ACGGAAAAGGAGAGAGGAAAGGAAGGAAAAGGCCGGGGAGAA A A A A G GAA A G A A GAGGCC G GAAGGGGGGGGGGAAAAAA G GAA
 AAAGGGAAGGCCGGGAAGAAGAAGCCAAGAGGACCAGGGGGG GAAGCAGGGGAGAAAAGGACAGAAGAGGAAGAGAAAGAAAAA
 GAACGAGGAGAGAAAGAAGGAAGAAAAAGGGGGGGAGEGAGG G G G G C C C A G A C C G A C A A G A A A G G G A A GA G A G G G G G G G A G G G A A G G GCCGAGGAGCCGACCCCAACCAGCCGGCCAAAAGAGGAA G G A A A G C A G G A A G G A C G A A A A A G G G GAGAGAC GATTGGAACC A G G G G G G G C C G G G A A G G GAA A G C C G GC CAC C C CA G G G G C C C C $C C G G A C A A A A G G G C G G G A G G G G G G A A A A C A G G G G G A A G A G A A$ G G A A A G G G GAAA $A \operatorname{A} G A G A A A A C C G A C A A G G A G G G A A A A G G G A G$ A A G G G GCAGAGAAGAGAGAGGAAGAAAGAGAAAAAGGAAGAG $G G C A G C A G G G C C A A C C A A A G G G T A A A G A A G A G G A G G A A G G G G$ A A G G GAGGACAGACAAGGAGAGGGGGGGAAGAGGGAAAAAAA G GAACCAGGAGAGGGAAAGGAGGAGCGGAAGGAGGAGAAAGA A A A A A A G A A G A A A A A A G GAGGGAAAGGGAGTTCC G GAAAAA A A A A GCCAAAAAAACGAAAGGAAGAGAAAGGCCGGAACCGGCC A A A A A A A A A A G G G G A A A A G GAACCAGAACCAGAA G GAA G GTT
 G G G G G G G G A A A CAAAAATAAAAAAGGCCAAGGAAGGCAAAAA C C A A A A A ATTAAAAAAAAGGAAAAAAGGAAAACCGGGGGGGG G G G G G G A A A A A A G G A A A A $\mathcal{A} G G G A A G G A A G G G G G G G G A A A A A A$ G G G G C C A A A A G G A A A A G G G G G G A A G G T T G G G G G G A A G G G G G G G GAACCCCAAAAAAGGAAGGAAGGAAGGGGAACCGGGGAAAG AAAAGGAACCAACCGGAAAAGGGGAAAACCGGAAAAGAAAAA AA $A G A A G G A A G G G G G G A A A A A A G G G G G G A A A A G G G G G G A A G A$

G G G G GCC G G A A G G G G G G G G G G G G G G A A G G A A A A G G A A A A G G A A A A CCGGGGGGGGCCGGGGCCGGGGGGCCGGAAAAAAGGAA A A A A C C A A T T G G A A A A A A G G G G G G G G G G G G C C A A A A A A A A A A $A A C C A A A A A A A A G G C C A A T T G G A A C C A A G G G G A A G G G G G G G G$

AAGGAAGGGGAAAACCCCGGAAAAAAGGGGGGGGAAAAAAAA
 $G G C C C C G G A A A A A A G G C C G G A A G G G G G G G G G G G G A A A A A A G G$ AAGGGGAAAAAACCGAGAAAACAAAAAACAAAGGGAGGAAGA A GAA $A$ A A T G GAGGGGAGGAAGGAAA GAAACAAGGAGAAGGGG $C \subset A A C C A A G G G G G A A A A A A G G A G G G A C G G G A A A G G A C C B G A A$ G GAA A G G GCACCGACCAGAAAAGAGAGGGGAAGAGAGGAGAA AAGGAAAAGCGGGACCAAGGCAGGGGCCGAAAGGGAAAAAAG A A G A A A A G G A A A G G G G A A A GA $\operatorname{A} G G G A G G A G A A G A A G G A A A A G G$ G G T A G G A G A A G G A A G G G G G A G A G A G G G A C G A A G G G G G G G G G G GAGGGAGAGGGAGGAAAGGGGGAAAAAGAAAGAAAAAAAAGG C G A A G G G A G G A A G G G G A G G A A A G G G G G G G G A A G G G G G G G G G G A G G G A A C A A A G GA A A A G GAGGGCAAGCCAGAAGGA GAA GGGG AGCAGGAAAACCGGAAGACGAAAGGAAAAAGGAAAAGGAAAA G G G G GACAGC G GAA AGAAGGAGAAGGCCAAGGGGGGGGCCAC G GAGGGGGGGGGGGGGGAGGAGAAAAAAAACCAAAGAAAGGG G GAAAAGGGAAAAGAGCCAGGAGAGAGAGAGAAAGGGGAGAA A A G G A C A G GA G G G A GAAAAAAAGGAACCGAGGAACCCAAGCC $C C G G A A A G A A G G A A G G A G A G A A A G A A G G G G G G A A A A A A G G G A$ A G G G A C G G A G G A G G A A G G T A GAGGGAAGGACCGGGGAAAA GA A G G GAGGAGGAAAAAAAAGGAGGGGGGGAAAGACGAAAAAAA G G G GAA $A \subset A G G C A A A A G G G G A A G G G G A A G A A A G G A G G G G G G G$ A G G G G GA $\operatorname{G} G \mathrm{G} G \mathrm{G}$ GAAAAACAAGGGGGCCAGGGAAAAGACAACAA GAGAGGACCCGGAAGGAAAACCGGCAAGAGAGAAAAGGACAA
 A GAAA ACCAAAAAAAGAGAAAGGGAGAAACGGGGAAGAAAGG G GAAGAAAGGGGGGAAGGCGACGAAAAAAAAAAAACAAACTT C CAA $A \operatorname{GAAAAACCGGAAGGAAGGAAGGGGAAGGGGAAGGCCCC}$ G G G G A A G G G G G G G G A A G G A A A A A A A A A A C CAA G GAAAAAA G G CCCCGGAAAAAGAGAGGAGGAAAAGAAAGGGGCAGGAGAAAA G G G GAACAGGAGGAAAAACCCGACAAAAAAACAAGGCCBAAA AACCGGGAGAAAAGGGGGGGGGAAGGAAAAGGAAGGAAGAAA AAAAGGAACCCCGGCCGGTTAAGGGGGGGGCCAAAAAAGGAA AAGGCCAAGGCCGGGGAAGGAAGGGGAAAAAAAAAAAAGGGG A A A A G GAACCAAAAGGCCGGGGAAAAAAGGGGAAGGTXAACC A A G G G G G G C C T T C C G G C C A A G G G G G G G G G G A A A A G G G G G G A A G GAAAAGGGGCCGGAAAAAAGGGGGGGGAAAAAAGGGGAAGA $C C G G A A A A A A G G C C A A A A A A G G G G A A A A A A C C A A A A A A A A C C$ A A A A A A A A C C A A A A G G A A A A A A C C C CAA G GA GA G GAA G G G G G G G G GCCGGAAGGGGCAAAGGAAAGAGAAAACCGAGGAAAACC AAGGAAAAAAGGAAAACCGGGGGGCCAAGGAAGGAAGGCCGG C C G G G G G G C C G G A A A G GAACGGCAGGAAAAACCCAAGECCAA AAAAAAAAGGCGAAAAAAGGAACCGGAGAAGAGAGGGGAACAA G G G G G G GAAACCCCAAGGAACAAAAAAAAAAAGGACAGGGGG A A G G G GAAAAAGCCAAGGGGTACCGGCCAAAACCGGAGAAAA A A A G A A G G A A G G G G G G C G A A A A A A CAATGC GAGACCGAAGAA A A A C A A A A A A G G A A G G A GAGAGGGCCGGGGAAAAG GAA G GAA A GCCGAGAAAAAAGAAAACAGAGAGGAGAAGGAAATAGAGAA $C \subset A A T T G G A A A C G A A A G G A G G A G A G G A G A A G G C A G G G G A G G G$ GAAGAAAGAAAACCGGGGAAGAGGGAGAGGAAGGGAAA GGCC AAAAGAGGCAAGAGGAGAAGGAGAAGAGCCAAGGGGCCAAAA A A A A A G G G G G G G G GAAAAACCGGCCCCGGGGCGCAAAGGAGAG GAGGAGGGAAAGAGGGGGAAAAAACCAAGGAAGGAAAAACAC AAAAAAAAAAGGGGAAGAACGGAAAAAAGGAAGGAACCAC GA GAGAAAGGAAGGGGAAAAAACCAAAGGGAAAAGGACGAGGAG $A G C G C C A G G C G C A C G A A C A G C C G G G G G G G G A A A C A C A A G G A A$ AC GAGAGGAACCGGAGAACAGAGAGGAGGGGGAGGACAAAAAA A A C C G G G A A A C A G A A A A A G A G G A A A G G GC CA GA GCCCCCC A A $A G G G A A A A G G G G G G A G G A G A G G A G A A G G T T A C G G G G A C C G E A$

G G GAAAGGGGCAGAAAGGAGAAGGAAGAAAGGAAGGAAAGAG
 G GAAAAAAGGAACCGAGGGAGGAGGGCCAAGACCGGAAAAAG GAGAAAAAAAAAAAAAAAGGAACCCCAAGGAAGAGGGAAAAA G GAAAGAAGGGAAAGAGGAAAAAACCGCAGACAGCCGAAAAA AA $A \operatorname{Gg} \operatorname{GAA} A A \operatorname{A} A A A A A A A G G G G G A A A G A A G G A G G G A G A A A A G A$ A G G G A A G G G GCACCCAGGGAAACCAAGGGGGAAGBACAGGGG A G G G G G A A A TAGGAGGAAGGGAAAGACAGAACAGAGAAGGAA A A A A G G G G A A G G A A A A A A GAAAAAAAGCGAGGAAAAA GAACC G G G G G GCCGAGGAGGGAAAACCGGCCGGGGGGGAAAAAAACC C C A G G G G G G G G A G G G G A A G G G A GAC GACAC G G G GCC G GAAA A AACCCACCAGAAAAGAAGAGAAGACAAAAAAGCCGAAAAAAG A G G A A G A A A A C G G G G G A G A A GAGGGGGGAGCCAAGACCAA GA A A G G A A A A A G C A G A A G G A A G A A A A TAAA A G G G G G A C A G G G A G AA $A G G A A A A A A A A G G G A A C C A G G G A A A G G G A A G A A A G G G A G G$ $G G C C G A A A A G C C G G A G A A G A A G G G A A A A A G A A A A C C A A G G G G$ GAACAGAGAGGAAAGGAGGAAAAAAAAACACAGGAAAAGGAA A A A A A A A A A A A A A A C C G GAAAAGGCCAAAAGGCCAAG GAAAA G G G GCCGGAAGGGAAGGGGGGGAAGAGGAAAACCAAGGAACAC A A C A A C A A $\mathcal{A} G G A A A A A G G G G G A G G C A G G A A G G A C C C A A A A A G$ G GAAGGAAAGGGAAGGAACCGGCAAGAAGGGGACAGGGAGCC G G G G T A G G A A A A G GAA $A \operatorname{GGG} \operatorname{GAA} A A G A C A G G G G A A A G A A C C G G$ GACCGGAACCGGTTTTAGATAAAGAAAGAAACAAAAAACCCC GGCCGAAAAGAAAAAAAAAAGAGAAAAGCCCAAAGAAAGGAG A G G G C A G G A A C A G G G G G G G A G G G G G G A A C C G G G G A G A A A A A $\mathcal{A}$ A A GAA A ACACCAAGGAAGAAGGGAGCCAAAAGAACCGAAGAA AAAGGAAGAGGAAGAAGAAACAGAAGAGGAAAGGGGAAAGGG A A G A A A A A A G G GAACCCCAAAGGGGAACGACCCCAAAAGGGG G G G GCCGGGGAGCAGGAACCCCGGGGAGCCAGAAGGACAGBA AAGGAAAGAGGGGAGGAAGGGAAGCAAAGGAAGGAAAAAGAG ACAGCCGAAAAAAGGAAAAGCAGGGGAGCCAGGAGBAAAAAG A G GAGAGAGGGAGGGGCAAAGGAGAAGAAGCAGAGGAAGGGG G G G A A T G G A GAAGGGGAAGGGGAGGGCCGGCCAAAAAAAGAA C A A A A A A A A A A ACCAAAAAAAAGGGGAAGGGGAAAAAGACAG
 G G G G G A A G G G G A A G G G G A A G G A A A G G G A G A G G G G A G A A G A G A AGAACCAACCGAAGAAAGGAAGGGAAGGAAGGAGAGAACGGG A T GAA ACAGGAAGGAAAGGGAGAAGGCAAGAGAAGCGGAAGA A A A A A A A C C C A GAC $\mathcal{A} G G G G G A G G G G G G A A G G A A C C A G G G A A A G$
 GGACCCGGGGAAAACCGGCCAAAAGGCCGGAAGAAAGGGGGG A A A A G G A A A A G G G G G G G G A A A C G G G G A A G A A G A G A G A A G G G G G GAGAAAAGAGGGAAAAAAAAAAAGGAGGGAAAAAAAAAGGG G G G G A C G A A A A G G G A A GAGAAAGGGGGACCGGAAAGCCAAGA G G A A A A A A A A C C G G A A G G G G G G G GCCGAAACCGGAAAAAA GA

 G GCAAGACCCGACCAAGGCCGGGGGGCCGGAAGGGGCCAGAA AA $A G A A A A A A G G G G A A C C G G G G A A G G G G G G A A G G A A A G A A G G$ A A G A A CA $\operatorname{A} G A A C A G A A G G A A A A A A A A A A A G A G C A A G G G G G G A$ G G G GCCAAAAAAAAAAAAGGAAGGAAAGGAGGAGCCGGAGAA GAGAGAAAAAAAGGGAGGAAAGAAGGCCGGGGAAGGCCAAGAG G G GACCAAGGGGGGACGGGAACAAAAAAGGGAGGAAGGABAA AAAAGAGAAGGGGGGAGGGGAGGGGGAAGGGGAAAAGAAACA A G G G G A A A A A G G G G A A G G A A A A G GAACCCCAA $\mathcal{A} A A G G$
GCCGGAGCACAAGAAAAAAGAAAGGAAGGGGGAGGAAAACB A A A GCAAAAAAAGGAGAGAAGAGGGGCCAAAAAGGGAAAGAA A G C A G G C C A G G G G G G G G G G G C G G A A A A CAAAA A G A A A A A A G A G G GAGACCGGAGAAAGCCAACAGAAGGAACGGAAAAGGGGTT

G GAAAAAAGGGGGGGCCAAAAAGGGGAGGGGCAAAGGACCC GGCAAGAGAACCAAAGGAAGAAAGACGAAGAAGGAAGGAGAA A A A A G A GAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G C \subset T A A G G G G G G A A A G G A G A G A A G G G G$ A G G G G GAACAAGGACCCCGCAGAAGGACGGGAAAAGGGGGAG
 ACAAAAAAATAGCCGGCAGGAAGGAAAAAAGGGGGGBAACAA GAGGGGACAGAGAGGGAAGGCCAAAAAAAAGGAAGGAACAAA AAAAGGGGGGAAGGAAAAGGAAAAGGGGGGGGAAAAAAAAGG GGAACCCCAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAAA G GAAAAGGAACCGGGGAAAAAAGGGGAAGGGGAACCGGAAAA G GAAAAAATTAAAAAGGGAAGGGAAGGGAAGGGGGGCAAAGA A A A A G G G G G G G A G G A A GCCCAAGACAAAAGGGAACCAAAA G G GACCGAAGAAAAGAGGAAGGAGGGAAAAAAGAACGAAAAGGG A A G G G G G A GA $\operatorname{A} A A \operatorname{A} A \mathrm{~A} G \mathrm{G} G A C A A G G G G G G C A A A G G A A A G A A C C$ GAGGGGAGAGCAGAGAGGAGGAAAAGCCGAAAAAAAGGCCCC AAGGCCGGAGGGGGACAAGGCCGGAGAAAAAGAAGGCCAGAC G GAACCCCAAAAGGAGAGAAGAGGGGAAGGTAAGAAGEGAGG G G G G A G A A A A A A G G GAAGACCCGGAGGGGGGGAGGAGAGAAC TAGAGAAAGGCAGGAAAAGGGGGAGAAGGGGGGAAAAAAAGA C C A G A G G G A A G G G G G G C A G G G G G G C C A G A A G G G A G G G G G G G G GGCCAAGGAGAACACAGAAGAAAAAGAAGGGGGGGGAGACGA
 A A G GAA A G G GAAAAAAGGGGGGGGGGCCAAAAGGGGCCAGAAA G GAA $A \operatorname{GAAAAACCAAAAAAGGCAAGAAAAAACAGGAGGGAGGG}$ GAGGAACCAAAAGGAAAAAACCGGAAAAGAGGACAGCACCAA G GAA ACGGGGGGGGAAAAAAAAAAAACCAAAAGGAGBATACC GAACAAACGGAGGGGGAAAAGGCCGAAGGAAGACGAGAAAAC C C A G G GACAAGGGGGGAGAGCCGGAGGGAGGAAGAGAAAAGAG A A G G G G A G A G A G A C A A G G G G G G G G G G G G A A A A A A C C G G T TA A
 G G A A G G C C G G A A G G A A G G G G A A A A A A A A G GCCGGG GAA G G A A AAGGCCAAAAAAGGGGAGGGGGAGGAGGAAGGAGAGAGCACC A GAGAAGAAGGGACAAAGAAACCCAAGGAAGGGAAGGGAGAA C C G G A A A G A G A G G G G G A G G GAA $A \operatorname{GAAGGACAGGCCGGGGAAGA}$ C C G G G G A A A G G G G G A GCCA G G A A A G G G G C CA A A G G G A A G G G A A A G A A A A A A G A G A G A A G G G G A A G G G G A G G G A G A A A A G G A A A A A G GAGGCCCCCCGGGGACGAGGGGAAGGGGGAAGGGGAGGGG GAAAGGCCAAAAGGAAGGAGCAGGGAGGAGGGGGAAGGAAGG A GAAGGCCAAGAGAAAAAAGGGCACACAAAGGAGAGCCAAGG A G A A A A G G A A G GAA A GAA $A$ A A G GAAAGAAGGAGAGCCAA GAAC A G G A A G A A A A G G G G G G G G G G C C G G G G G G G G A A G G G G A A G G A A G G G G A G A A A A A A G G A G A A A G G G G A G G A A A A G G G G C A G A A G G A GAAGGAGGGGCCAGGGGGGGAAAGAGGAAAAAGGGAAGAGCC C C C G G G A G A G A GCCAAC CA G GAGGGGGAATGGGAGGGGGGGA
 A A G G A ACCAGGGAGACGGAAAAGGGACAAGAAGGAGCAAAAA G G A G G GC C G A A G G G G G A G A A A A GACC G GA G G G A A G G G G G G A A GAAGAGGAGGACAACAGGAGCCGGGGGAATGAAACCAAGGGG G GAGAAGGCCGAGGAACCAAGGGGAGAAGGAAAAGGAGGAGG ACAAGACCAAAGAGAGAAAAAAAAAGGAAAAAGGGGCCCCCC GAACAAAGAAAGAAGAGGAGGGAGCCCCCCGAAGGAGAAAAG AACCAGAAGGAAGAAAAGAGCCGAGGGAAGAAAAAAACGGGG A G G G G G A G G G G G G G C C A A A A A G G A A C A A A G C C G G G G G G C C A G G GAAAAGGAGGGGGGGGGAAGGGGGGGGACGGGAGGCCAAGA C C A A A A A A G GAGGAAACAACGGGGAGAACCGACAAGAAGGAG
 G GAA A A GAA $A \operatorname{GGG} G A G G A A G G A C T A G G A A C C A A A G G G A A C C G G$ GAGACAGGCACAGAAAAACCAGCCAGGGGGGAGAAAGGGGGG A A G G G A TAGGGGGGGGGGGAGGAAGAAAGGAAGGAGACAAAA

A GAGGGGGAAAAACCAGAGGCAGGGAAGAAGGACAAGGAAGA
 A G G GCCGGGGAAGAGGGAAAGAGGGGGAGAAGCAAAAGGAAA A GAGGAGAAGCAGGAGGGAAAAAGAGAGAGGGGGAAAAAGGA GAGGGGAAGGGGGGGGGGGGCCCCCCGAGGGGAGAGAAACAA A A G G G GAAAAAAAAAAAGAAAGAGAAAAAAGAGAAAGAGGAA A A G G A A A G A A G GAAAAGGAGCACCGAAACAAAGAAAGGGGAC GACAGAAAGGAAAAAAAGAGAGGAAAAGGAAAGAGGAAGAAA A GAACACAGGAAGGAAAAGAAAAGAGAGAGAGAGGAAAAACC GAGAGAAGAACAGGGGGAGGAGGAAAAGAGGACAAGAAACGG
 G G G GCAAGGGAAGGAAGACAAGGGAGAGGGGGAGCCCAAGAA A G G GAA A GCCAAAGAAGAAGAAAAGAAGGAAACCBAGACCAG A G G GAAAAGGGGCCGGAAGGAGAAGGAAAAGGGGGGAACCAA GAAACCGGGAAAAAAAAGAAGGGAAACAGAAAAAAAAGAGGA ACGAGGGGCCAACCCCAAAGAAGGGGAAAAAACCGAAAGGAG CAGGAGAAACGGGGGGGGGGAACCGGGGGGAACCCCGGGGGG AACCGGAAAAAAAAAAAAGGAAAAAACCGGAAGGGGAAAAAG AAAAGGAGGGAGAGGAGGGGAGGGAAGGCCAAGGGGGGAACAC AA G G A A G G A A G GA GAAAGCCCCGAAGGGAAAAAAAACAAAAA AAAAGAAGGGTTAGCGGAAGAAAAAAGGGGAAAACCGGCCCC CACCGGAGAGGACAGAGGAGAGGACAGAGACAGAAAAAGGGG G G G G A A G G G G A G A A G G G G G G A A A C G GAGGGAGGGAG G GAAA $A$
 G GAA $A \operatorname{GCC} C G A A A A G G C C G G A G A A A G G G G A C A A A A C G G G G G A$ A A A A A A A A A A G GAA $A \operatorname{GAAAAGTAAGGGAGGGAGGAGGGGAGAG}$ GAAAAAAAGGAAAACCGGAAAAGGAAGGGGAAAACAAAGGGG
 GAACCGAGAGAGACAGCAGGGAGGGACAACAGGAACACAGBA ACAAAGAAAGAGAAAGATAGAAGGAGAGAAGAGGAAAAGAAA G GAGAGGGCAGGGGAAAAGGCCGGAAGGAAAAAAGGGGAGAG G GAAAAGGGGAGGAGGAAGAAGAGGAAGGAAGGAAAGAAGGG $A A C C C C C C G A C C A G G G G A A A A A G G C C C A A T G G G G G G G A A A G G$ CA $A$ A A A $\mathcal{A} G G G A G G G C C G G G A G G A G A A G G G G A G A G G G G G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGGGAA A A G GAAAAAAAAGGAAAAAAAACCCCACGCCAACGAAAGGGG G G GAAAAGCAAGGGGAGGGGCCGGAAAAGGAAAAAAAAGGCC AAGGGGAACCCCGGAAAACCGGAAAAGGTTGGGGAAGAAAAA G G G GCCCCAAGGAAGGAAAAAAAAGGCCAAGGAGAAAGAGAG A G G GCCCCGGCCAGAAGGAAGAGAAGGAGGAAAAAGACAGGG AAAGGAGGAAAAGGCAAAGAAGAGGGCAGGAAAGAAAACCAA A A A A A A C C G G A G G G G G G G A G A A G G C C G G A A G G G A A GA G A G G A AAGGCAAAGGAGCAAAAGGGGGAAGAAAGGAACCAAGGGGAG GAAAGGAAGGAAGGGAAAGAAAGGGAAGGCGCGAGGCACCAG
 $G G A A A G A A G G G G G G A A G G G G A A A A G G G G A A G G G G A C A G A A G G$ G GAA A G G G A A G GCCAGAGAAAGGGAAGGACACGAAAAA GA G G $A$
 A GAGGACCACAAGGAGAGAAGAAGAAAGGAGGAAGGGGAAAG ACGGAAGGGGAGGAAAGGGGCCAAAAAGCCACAAACAACCAA A GAA A G G G A A A A A A A A A G G G G GAAAAAAAA A GAAAAAG GAAC C GACCACAGACAAGACAAAAAAAGGCCGGAAAAAAAAAAAAAA $G G A A A A A A A A G G G G G G A A A A A A A A G A G G A A G G A A A A G G C C A A$ G GAAGGAAAGGGCAAAAGAGAAAAGGAAAACCAAAAAGAAAA $A G A G C C G G G G G A A G A A G G A C A G A G C A G G A G A A G G A A C$
CAAAAGGGAAGCCCAAAGGACAAAGAGAGGAAAAGGGGAAG GGCCAGACAACCAGGGACACCCGGGGGGAAAGAGAACAAAAG G A G A G G A G G A A A A A A G G GC C G G T T A GA G GA G G G G A G G G C C G G $G G A G T T G G G G A A G A A G G G C A C A A A C C G G C C G G G G A A A A G A A A$

A G G G G G G G T T A A G GAAAAAAAGGACGGGGGGGGGGAAAAAGA G G A A C C A G A G G G G G A A G G T T A G A A A G G C G GC C A G A A A G G G G G AAGACCGACAAACAGGGGGGAGAGAAGGGGGGGAAGAGAAGA
 G G GAAA A A A G G GAAAAAAGGAGAAAAGGGGAAGACAAA GGGG A A A A GACCAGGAAAAGAGAAAAGGAAAAGAAACCAAGGAAGG G G GAGCGGAGAAGGGGAAGAGAAGAAAAGGGAAA GAAGAGAG GAGATTAAAGAAAAAATTAGAGAGAGGGAGAAAAAAGGAAGAG T TCCGGAAGAGGAACCAGAACCGGAGAACAGAAGGGAACCGG AAGGAAAAAAGGAAGGAAAAGGAAGGAAGGAAAAAAGGCCGG G GCCCCGGAAAAAAGGGGAAGGGGGGAAAAAAAAAAAAAACC
 $G G C C G G C G G C A G G A A G G G A A A A G G G G G G A G G G A C A A G A A G A A$ C C G G G G G G A A A A G G G G A G G G A G A G G G G G C A GA G G G G G G A A T T G GAACCAAAAACGAGAAAGGAGAGAAAGACCCGGGGGGAAAA A A A A G GAAA $A \operatorname{A} G A A G G C C G G A A G G G G A A C C G G C C A A G G C C G G$ C C C C G G G G G G G G G G G G A A GAC C G G G G GAA A A G G G A A G G C C G G GAGAAAGAAGAGCAAAACAAGGAACCAAAAAAGAAGCAAAGG GAGGGGAAAGGGCCAACCAGAGAAGGCCACCAGGGGGGAACAC A G G G G A G G A G G GCC G GCCACAAGACCGGAAGGACCAAAAAGG AAGGAGGGAGGGACAACCAAAATTGAAGAGAAGAAAAAACAA A GAAGAGGGGACCCAGGGCCAAAAGGAAGGGGGGAACACAAC G GCCGGGGGGAGAAGAGGAAAACCAGGGGGGGGGAGAAAGGA A A A A A A A A A A G GA $A \operatorname{GGGA} A G A A A C C A A G G G G G A A A A A A A G G A A$ AAGGAACCGGGAAGAAAAGGGGCAAAAGAAAAGAAAAAAACA GAAAAAAATTAAAGGAGAAAAAGAGGAAGGGGGAAAAAGGGG AAAAAGGGAAAAGGAGGAGGCATAACAAGGAACCAAGAGGAG A A GAA $A \operatorname{GG} \operatorname{GAAAAAAGGGACAGAAGAGAAAAGGAGAGAGAACC}$ A A A A A A A A A ACCAAAACAAGGGAAGAGGAAAACGAAAGGGGG GAGAAGCCAAGGAAAAGAAACCCCGAAGGAAAGGGGAACAGA A G G G G A A G A A G G G A A A A G C C G G A A A A A A C C GA G G G G A G G G A A ACGGGGAGCAGGGGAAAAGGGGGGAGAAGACCGACCGAAGGG G GAAGGCCGGAAAGAGGCAGAGGAGAGGAGGGAAGGAACAAG GAAAAAGGCCAAGGGGGGAAAGAAGGGGAAAAAGAACCAGAA A GAGACAAAGAGGGGGAAGAGAGAAAGGCCCCAAGGAGAAAA G G G G A G T A C C A A G A A A A A A A GAGGGACCGGCCAAAAGGAAAA AAAAAAAAGGAAGGGACACCAGGGGGGGGGGGGGAAAAAAAA G GAGGGCAGGGGAAGAGGGGGGAAGGAGGAGACAAAGGGGGA GAAAAACCAGCAAGAAGGCCGGGGAAGAAGAAAGAGAGAGAA A A A A G G G G A CAGGGGGAAGAAGGAGACCAAGGAGAAAAGGAA $G G A G G A G G G A G G G A A A G A A G G G A G A A G G C C C C G A G G A A G G A A$ A GAACCGGAGACAGGAAAAAAAGAAAAACCAACCGAC GAAAA A GAAAAGGGAAGAGAGCCGGCCGGAAAGAAAAAAAAGGAAGA A A A A A C G G G G T T G G G G A A G G C C G G G G G A G G A A A A G G A A A A A G G G A A A G GCCGGAAGGAGAGAACCGGACGGAGAAAGAAGAAA A A A G G A A G G A A A G G A C G G G G G G C C A A G G A A G GC C A A G G A G G C A GAGGGAGAGGAAAGAGAGAAGAGCCGAGAGGGACCAGAGAA $C \subset G G A G A G G G A A G G C C A A G G A A C G G A C C A C A A A A C A G A G G G G$ $C C G G G A A G C A G G A G C C A A G C G G G G A G G A A A A A A G A G A G A A A G$ G GAAGGAAGAAGGGAGGGAACCGGGAAAGGAACCAAAAAAAA AAGGCCAGAAGAAAAGAAGGAAAAAACCGGAAGGAACCAGAA G GAGGAGAGGGGCCGGGGGAGAGGGAAAAGGGCCGGAAAGAG A GAACAGGGGGAGGGAGGACAGAAGGAAAAGGGGAAGACC GA $A G G G C A G A G G G A A A G A G G A A G G G A A A G G G A G G G G G A G A G G G G$ $A A G G G G A A A A G G A G G A G A A A G G G G A A A A G G A A G G G A A A A A G G$ GAAACAAGAAGGAAGGCCCCAAAAGGGGCCAAAAAAGACGCC GAAAGGAAAAAAGGCCGAGGACGGAAAAGAAGACGAGBCAAC $A G A G A G C A G G A A G G G G G G G A A G A C C C G G G G G G A G G G A A A G A A$ G GAAGGAAGGCCGAAAAAAAGAAAGGGGGGAGCAAACAAAAC

G GAAGGAAAATAAAAGGGAGAAGACAAGAGGGGACAAAAAAG A A G G G A A A GAGACACAGGGGGGCCGCCCGGAAAAGAAAGGAG A A C A A G G G G G A G A A A G G GAAAGGAGGAAAGAGAAAAGAAAGG G G GAA AAACCAACCAGAAGGAACCGGAAAAAAGGGGGGAAGA A A G GAAAAAAAGGGGGGGGGAGAACCAGAAAGGGGGACAACC G G A A A C A A G A G G G G A A G G G G G G G A A A A C C C C A C C G A G G A C G G A G A A A A A A A A C CAA A GAA G GAAAAGGGGAACC GAA G G G G G GAA G GAA $A \operatorname{GA} C G A C C A C A G A G G G G G G G G G A A G G G G A G A G G A A G C C$ A GAG A GAGGAACAGGGGAAAAACAAAAAAAAAGAAGGAAAAA AAAAAACAAACCGGCACAGGGGAAGGAAGGAAGAAGCCAAAC G G GAGGAAAAAACCAAAACAGAAAAAGGAAACGAAGAAGGGG
 G G A A C C G G G G G G G A G G A A GAGGCCAGTTAAAAGAGGCA GA G G AAAGGGCCAACCGGCAAGAGCAAGAAAAAGGGGGGAAAAGCC GAAAACAGCCAAGGACAAGGAAGGGAAAAGAAACAGGAAAAG A GAGGGCAGGAACCCCGGAGCCAAGGGGGGGGCCGGAAGAAA
 A A A A G G G A A A A GCACCAGGGGGGGCCCCGGGAAAAAGGAGAA G G G GAGGGAAGGAAAAGGAAAAAAAAGGAAAGAGCCAAAAAA AA $A G G G C C A A C C G G A A C C A A G G G G G G G G G G A A G G G G G G G G G G$ AA G G G GCCGGGGAAAAAAAAAAGGGGGGAACCGGAAGGGGCC AAAAGGGGAAGGAAGGAAGGAAAACCAACCAAAAGGCCGGGG A A A A A A A A CCAAAAAAAAGGGGCCAAGGGGCCCCAACCGGGG G GAA A GAACCGGAAGGGGGGAAAAGGAAGGAACCAGAGAGAA A A GAAA A G G G G GAAAAAAGACCCCAGGAGAGGACAGAAAACC G G A A T TAAAAACGGGGGAAGGAAGGAAGGCCGGGGAATACA
 G G G G A G G A A A G A G G C C A GAGCCCCGGGAGGAAGGGAAA G GAA A TA A G GCCGGGGGAGGGGGGAGGGAAGGGGAACCBGAAGGGG $G G A C A G G G A A G G A A G G A A G A G G A A G G A G A G A A G C G A A G A G A A$ G G G GCCGGGAAAAACCGGAAGGAGGAAAGGATGGGGGBAGAA AACAGGGAAGAAGGGGAACCAAGGGGGGCCCCCCGGAAAAAA G GAAAACCAAAACCAAAAGGGGGGAAGGCCGGGGGGAACCBG A A C C A C C C A G G A G A A A A C G G G A A A GA G G G A G G G G A G A G G A G G C GAA $A \operatorname{GACA} A C C A G A A G G G G A G G A G A G A G G C C A A G A C C G G C C$ G G A A A GAA A A G G G GCCGGGAAAAACAGGAAAGAGAGGAGGCC AAAAGGAAAGGGGGAGGGAAAAAAGGAAGGAACCGGGAAGAA ACAAA $C A A T A A A A G A A A G C G G A A G A A G C A G C C G G A G G G G G$
 A A A G A A G G GA $\operatorname{A} G A C G G A A G G G G G G G A A A A A G G A A A A G B C A A A$ A A G G G G G G G G G G G G G G G GAGAGCCAAAAAACCGGGAAAAAAA G G G G C A G G G G A A A A A A A GCCGGGAGGGGCCGGAGGAAAAA G G G GACAA $A \operatorname{A} A G C C G G A G A G A A A A A A G G A A A A A A G G G G G G A G A A$ $A C A G A A G A A G A A C C A G C G A A G G G G A A A C G A G G G A A A G G A G A A$ A G A A A A $\operatorname{A} G A G G G G G G G A A A A G G G G G G G A A A G G G A A G G A A G A A$
 AAAAAGGAACCCGAAGCCAGAGAAGGAAAGAAAAAAGGTTAG AA $A \operatorname{GA} A G G A G A C A G A G G G A C A G G A A A G G A A A A G G A G G A A A G G$ AAAAAACCACGGGGGGAGAAAACCCAAAGGGAGGAAAGAGAG GAGGGGGAGAAGCCAGAAAAAAACACAAGGAAACAGCCAGCA A G G A A G G A G A G G A A C A GAA $A \operatorname{GGGGGAAAAGAAGAAGGAAGGGG}$ G G G G G G A A A A A A A GACAGGGAGACGGAACCAGGGAAAA GGGG

 $G G A A A A G G G G A G A G G G A A G A C A A G A A A A A A G G G G C C G$
$G C \subset A A G G G G A A A G A C A A A A A A G G A A G G G A A A C C C C A A C C G A$ GCAACCAAGGAGGAAAAAACGGGGAGAAAAAAAAGGGGAGAA A G GAAGAAAACCGGGGAACCAAAGAACCGGAAAAAACCAAAG $A C G G A G A A G G A C G A G C C A A G A A G G A A G G G G G A A A A G A A A A G A$

A G GAGAGACCGAAGAGGAGGAAAAGGGGACAAGGGAAAGAGA GAGAAAAAGGGACCGGAAAAGGACGGAAACGAAGGGAA GAAA $A G A G G A G G A A G G G G G G G A G G G G G A A A A A G A A C A G A A A A G A A G$ GAAGACAAGAGAAGAAAAGGAGAAAAAAAGGGAGGACAAAAA AAGGAAGAGGAACCAAAAAAGGAAGAAAAAAGAGGAGACBAA G G G G G G A GAGGAGGGAAGGGCCAAAAAGAAGACCAAAAAGAA A A A A A A A G A GAGGGGGAACCGAGGAGAAAAGAGGGACAAAGA AAAAAAGGGGGGGGGGAAAAAGGAGAGACACCGGAACCAAAA C C A A A A A A GAGGAGAGGGCCAAGGAAAGGGAGGGAAAGAGGA G GAAGGAGAAAGGGACCCAGAGGAAAAAGGAAAGGGGGCAAA G G G G A A A A G G G G G GAACCGGAGGGGGAGAAGGCCGGAAGA GA A A A A A A G G A G GAGCAGGGCAGGGAGACAGGGGAAAGAGAGAA A G G A A A C C A A A A A A $\mathcal{A} G G G G G G G T A G A G G G G A A A A G G G G A A A A$ A A G GAA A G G GAGGAAGGAAGGAAGGAGAACGACCGGGGAAAA ACAGGAGAAGGAAAGGGGAAAAGAAGGGAAAACCAAGGGGAA AA $A \operatorname{GGGA} A A A G G G G A A C C A A G G G G G G A G G G G A A G G G A A G G A G$ G G A A A A G GCCAAGAGGGGAGACAGGGAGAGGAGGAAAAAAAC ACAAAAGGAGAGAGAGGAGGCAGGGGGGCCGGGGGGGAAAAA G G G G G GAGGGGGGAAAAAGGGGAAAAAGGGGGAAAAAGAGGA A G A A A G A G G G G G G G C A G A A C C C G A G G G G G G A A C C G A A C G G G G GGAACCCCAAAAAAGGAAAAGGCCGAGAAGGGGAAAGGGGAG $C \subset G A G G A G A G A A C C G G C A G A A C G A G G A A A A A A A A A G G G T T G G$ G G G A G GAC G GAGCCCCGGAAAAAGACAAGAGAGAACAGGGGG $G G A C A A G A G G A A A A A A A G A A G A G A A A A C G A A A G A A A G A G G G G$ GA $\operatorname{G} G A \operatorname{A} A C G G A A G G G A A G G G G G G G A A C C G G A A A C A A G G G G G G$ A G GAAGCCAAGGAAGGGGAAGGGGGGCCAAGGGGGGAGGAGG G G GACCCCAGGGAACCGGGGGGGGAAGAACGAACAGAAAAAA GAAACACCGGACACGGGGAAGGGGGGCCGGCCAAAAGGAGCC GAACGAGAAGAAAACCGGGGCCGAGAGACCGGAAAAACAAAA C CAGAGGAAAGGGGAAGGGGCAGGAAAGGAAAAGGGAAGGGA A A G G A G G G G A G G A G G A A T A G G G G G A A G A A A G G A A G G C A A A G G G G G GAAAAGGACAAGGCCGAGGAACCAACCAGGGAGGGGAGA CAA A G G G G A A G GAGAGGGAAGAAGGGGAAGAAAA AAGAAAA G A A C A G A A G G G A C G G G G A A A G G G T T A G C C G G GAC C A A G G G G A G
 G G G G G G G G A A G G C A C C A A A A A A G C C A A G G GCCAGAC A A A G G C AAAGAAGGCCAAAACCGAGGAAAAGGGGAAGGAGAAGAGGAG C CAAAAAAGGAAAAAAGGGAAGGGCCAAGGAAAAACAACAGA GAACGGAGAAAAAAGGAGGACAGAGAGGAAAAGGAGCCAGAG GACAAGAGAAAAGGCCAGGGAACCAAGGAAGGAAAAGGAAAA G G G GAAGGGGAGAAACCCGGAGAGAAGGAGAAGGAGAAAAGAG C C A G G G G G A A A A A G C C G G A A C C G G GAGGAAGGC GA G G A GAA $\mathcal{A}$ A GAGGGGAGGAAGGGGAAAAAAAAAGAAGAAAGAGAAAGAGG G GAA A GAGGAGACCGAAGGAGGGGAAGGGGGGGGAAAAAGAC
 A A A GCAGAGAGAGGCCGGAAAGAGGGGAAAAAGAGGTAAAAG G GAGAA $A \operatorname{GA} A G A C C G A G G A G A G G G A A A A G G G G G G G G A G A G G G$ GGCCAGCAAGAAGGGAAAGGGGGAAACAAAGGAGAAGAAAAA G GAA $A \operatorname{GAA} A A G G G C G A G A G A G G A A G G A G G G C A A A G A G G G G C G$ $G G A A G A A A A G A A A A A G G G A G A G C C G G G G A A G G G G C C A G A G A A$ ACAGGGAACAAAAAGGGGGGCAAGGGAGGGAAAAGGAAAAAA $G G A G A A A G C C G G G A A A G G G G G G A A A G G A G A G G G G G G A C A A A A$ A G A G A A A A A A G A G GAA $A \operatorname{GGGGAAAAACAAGAGGGGGGAAAACC}$ G G G G G G G G A A C C C C A A C C G GAAAGGGAAGGCCAGAAA GAAG G
 G G G G G G G G G G G G G G A A G G G G A A A A A A $\mathcal{A} G G G A A G G G B A A G G G G$ G GAACCAAAAAAGGAAGGGGAAGGAAAAGGCCAAGGGGAGAG A G A A A GCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGGAAAA AAAAGAAAGGAGGGGAGGAGAAAAAACCCAGAAAAAAAGGAG

A GAAGGGGGGGGAAGACCCCACAAAAAAAAAAGGCCAACCBA GAAAAGAAGGAGGGCCGAGGAGACAGGGAGGGGGAAAAGGGG GAAGCCGCAAGAATAGAAGGCACAAAAAAGAGGAGAAAAAAA GAAAGGGGAAGGGGACGCGGAAACGGGACAAAGGTAGGAAGA AAAAGGGGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGCC
 GAA A G G A C G G G A G G G G A G A G A G G G A A G G G G A A G G A G C C G G G G G G G G G GA G G G A A A G A CA A GAGGGGCCGGGGGGGGACCCCCCC GAGGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAAAGGAG $C \subset A A A C G G C C G A A A G G A A G G A C G G G G G G A A G G C C A G G A G G A C$ TAGGAAGGAAACGGACAAAAGAGAAAAAGGAAAAAAAAAGAG AAAAAAAACCGGGGCCAGGAAAAAAAGGGGGGGGAGAGAAAA A GAG $A \operatorname{GAG} \operatorname{A} A A G G A A G A A A A G C C G G G G G G G G A A A A A G G A A A A A$ G G G GAA A A CAA A A GAGGAAGAAGGGGAGGAACGBAACAAATA $C \subset A G G G A A G A G G A A G A G G G G G G A G G G A A A A A A G A A A A A A G G G$ G G GATTCCAGAAAGGGAAAACCACGAGGGGAGAGAGAAAACC G G GAGACCGGCCCAAGGGGAAAGGTTAAAAAGAAGGCAGAAG CAAAAAACGGAGGGCCGGAGAAGAAAGGGGGGGGAGGGAGAA $G G A C A G A C A G G A G G G G C C G A G G A A G G C A A C A G A A A A G G A A G G$ GGAACCAGCAAGAGGAAAGGACGAGGAAGAAAGAAAGGAAAA G G G GAAAGGGGGAAGGAAAAGGGAAGGAGACCGAAAGGGGGA G G GAGAGAGGGGGGATGGACAAGGAGAAGAAAGGGGGGACAA

 A G G A A A A A A A A GTACCAAGAGGGGAAGGAGCCAACCGGAGAA A G G G G G A T CAAAAAGGGGACGAACCAAGAAAAAAGGCAAAAA T TAA A G G GAATTAACCGGCCGAAAAGGGAGGGAAAGGAAAGA
 G GCCGGCCACGGGGGACAAAAGCAGCAGAAGGGGGAGGAAAC $G G T A G G A G G A G A A G G G G G A A A A A A G G A A A A G G G G A A G G A A G A$ GAAAGGAGGGACAGAAAAAACCGGAAACGGAGAAAAAAAAGBG G GAA $\operatorname{G}$ GAGGAAGGAGGAAAGAAGGAGGGAAGGAAACAGGGGG GAAAGGCAAAAAAAAAGGGGAAGGCCAAAAAACCGGAAGGGG
 A A G GCCAAAACCCGGGGGAGGGGGCCAAGACAGGGGGGGGGG A G G G G A G G A G G GC GAACC C C C A A A A G G G G G GAGGGGAAAAA C C AAAAAACCGGCAGAGGGGCCGGAGGAGGGGGAAGGGAAAAGA A GAGGACCAGAAGGAGAAAGGAGGGAAGAAAAAAAGACAGGG A A A G GAGAACGGAAAAAGGAGAGGAGAAGGACAAGGGAAGAG G G G GCAAAGGGGAAAGAAACCCAAGGAAGAGAAGGAGAAGAG AAACGGGACCAACAGGGAACCCGAGAGAGAGGAAAAAAAAGG
 AGCCAAAAGGGGAAAGGAGAGGGGAGAAAAAGCCGAAACAAA C C G G A A C C A A A A G G A A G G A A G G G G G G C C G G G G A A G G G G G G C C G G A A A A G G G G G G G G A A A G G A A G G A A G G GAACC G G C C G G A A G G G G G G A A A A A A G G G G G G G G G G C C G G G G C C G G A A G G G G A A G G G G A A G G A A G G G G A A A A A A A A G G G G G G G G G GAAC A CAA G GAA G G A A G GAA $A \operatorname{GAAAAAAAAAGGAAGGAAAAAAGGCCGGAAAAAAGGGG}$ $C C G G C C A A G G G G G G G G A A A A G G G G A A G G A A G G C C G G A A A A A A$ A AAAGGAAAAAAAAGGAAAACCGGCCAACCAAAAGGCCGGCC G G A A A A A A G G G G G G A A G G A A G G A A G G G G G G G G A A A A G G G G G G A A A A A A G GAA $A \operatorname{A} C \subset A A G G A A A A G G G G G G A A G G G G A A G G G G G G$
 G G G G G G G G G GAA $A \operatorname{GGGGGAA} G G G A G A G A A G G G A G A A A G A A C C$ A A A A G G G G A G G GAGGGCCAAAAAAACAGCCGGGGAGA
A G G G G G A A A A A GAGAAA A A A A G GAA A GAAAAACCGGGAGAAA CAACGAGGGGAAGGCCAAAAGGGAAAAACAAGGAAAAGAAAA G GAAGGCCGGAAGGAAGGAGAGAGGGGGGAAAGAAGAAGAAA AAAGGGAGGAAGAGCAAGGAAGGGAGGAAAGGGGGAAAAGCC

G GAAGGGGCCCCCCGGGGAAGGAGAAGGCCGGAAGGGAGGAG GAGAAAAGGGGGAAAAAGGGGGAGAACCGAAGGGGAAAACGG A G G G G GAAAAACGGGGAGAGAGGGAGAAAAAAGGGGAGAAAA $C C G A A A G G G G A C G G A A G G A G A G A C G G G G A A A A G G T T G G A G A A$ AAGGAAGGGGCCCCCCAAAAGGGGGGGGGGAAGGAACCAAGA G GAACCAACCAAAAGGGGAAAACCGGAACCCCGGAAGAAAAA A A A A $\mathcal{A} G A A G G G G G G G G T T A A G G G G G G A A G G A A A A G G G G G G T T$
 C C A G A A A G A A G G GA G G G G A A A A A A G GAAACC A A A G G G G G G A G $A G C C A G G G G G A G A A C C G G A A G G G G A A G G G G A G G A A A G G A G A A$ ACGGAAAAAAGGACGGACAACCGGAGGAAAGGAGGAAAAAGG

 $G G A G C A A A C A G G C C A A G A G G A G G G A A G A A C G G G G A A A G A G A G$ G GAGCAAGGAAAAAAAAAGGGGAAAACCAAGGGGAGCAGACC A G G G G G G GCC G A A G GCGAAGGAGAGGAAACGAGGAGAGAAAG G GCCAAAGGGAGAGGGAGGAAGGGGGAAAGGGGGGGGAAAAA
 A A G G A A G G G G G A A G A A A $\mathcal{A} A G G G G G G A A G G G G G A G A A G A A G G G$ G GCAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} G \mathrm{G}$ GAGAAAAAAGGGAGGAGACACGGCCAAAGGG G GAAGGAAAGGAGCGGCAAAGGAAAGGGACGGAAGAGGGGGG G G G GCCGGACGGAAAAGGGAGAAGAGGACAAAAGGCGAATAC A GAA $A \operatorname{GGG} \operatorname{GAAAAAAAAAGCAAAAATTGAGGGGAGGGGGAACC}$ T TCCAGAAAAGGAAAGAGAAGAAACCGGGAGGCCGGAGAAAA A A A A A A GAGGACGGAGGGCCGGAAAGAGAGCCAAGGGGAGAG G GAAAGGAGGCAAAGGGGAAGGGGAAGGAGGAGAGAACACAA $C \subset C \subset G G A G G G G G G G A A A A A A C C A A A A A A G G A A C A A G G A G G G G$
 CAAGGACCAAAGCAAGAAAGGGAGCAACGAAGGGCCAACCAA C CAA $\operatorname{CA} A \mathrm{G}$ GAAGACACAAAGGAGAGAAAAAAGGGAAGGGCCGG AC G G G GAGATAAAAGGAAGGAACCGCGGAGGAAAAGAAAGAG GAAGAGGAGGAGAGGAAAAAAGAAAGGGGGGACCAAAGGGAG G G GAA $A \subset C A A A A G G G G A A A A A A A G G G G G A C A G G G G G G A A C G G$ C C A A A A A GAACCCCAGGAAACCAATAAGAAAAAAACGGGGGG
 G G G G A A A A A A A A G GCCCAGAAGGAGGAAGAAAAAA GGGAAAA GAAAGACCAACCAAGGAAGGGGAAGGAGAAAAGAAGAAAAGA A GAA A G GAGGGAAGGGAACCGGGAGGGAGGGACAGGGGAAAA C C G A G GAACCGGAGCAGACCGGAAAAGACACGCGGGAAGAAG GAGAAAGAAGACAAAAGAGGAAGGAACCGGGGAAGGGAAGAA $G G A A G G A A G G G G A A G G G G G G A A A A G G A A A A A A G G A G A A G G G G$ A G G G G A GACAAGAGGGAAGGCAAGCAGAAAGGAAGAAAGGGG GACCAAGGGGAAGGGAGGAAAAAAGGCCAGAAGAAACGGGCA A G GAA A A A A GACAACCACGAAAGGAGGGAAGAGAAGGAGGGG A A C A G G C A A G G G G G A A G G G G G G A A G A A G A A G G C C G G G G G A G G G GAA A G G G A A A A G A A A A A G G G G G G A G G G A G A G A T GAA GACAC $G G C C A A A A A G C C G A A A A G G A A G G A G A A G G A A A A A G G G A G A A A$ G G G G A G G G G A A G A G A A G G G G C G G G G G A G A A G G G G C C G G C C G G
 A GAA A G G G A C A A A A A GAGGGCAGGAGAAGGCCGGAA GC G GA G A G G G G G G G A A G G A A A A A G G G G A A G A A G G G G G G G A A G A G C C A A G GAACCAGAAAAGGAAAGGATTCACAGAGGGGGGGGAGAAAAG GAAGGAGGAAACGAGGGGAAAAGGAAGGAGAAAATTCCAAGG G GAAACAAACAAGGAAAAGGGGCCAAAACCGAAGACAAGGGG A A A GAA A G G GAAGGAAAAGGGGGGGGAAAAAAAACCAACAAA GAAGGGGGAAGGGGAAAAAGGAAAAAAAAGCCCAGGAAAAGBG
 G G A GCAAAAAGGCCAACAAAGGGGATGGGGAAGGGGAAAACAC $G G C C G G A A C C G G A A G G A G A A G G G G G G G A A G A A A G G G G G A A G G$

AGCCACAGAAAAGGAAGGGGAACCCAAAAGAAGAAGCCAAGA A G G G GCGGAGGAGGAAAACCGACCAGAGGAGCGGGGCAAGGG A G G GAGCGAGGAAAGGGAAAGGAGAAGGGGAACCAAGACAAG G GAGAGCAAAAAGGGAAAGGGAGAGGTTACGGGGACCCAAAAA A G G GAAAA $A \operatorname{AGGGGGACAAAAGAAAAAAAAGGGGGGGGGGGGG}$ A A A A G G G G G G G G G G A A A A A A A A A A A A G G G GAAAAAAAAAA A A $C \subset G G G G G G G G A A G G G G G G A A G G A A G G A A A A G G G G A A A A G G A A$ AAAAGGAAAAAAGGAAAGGGACCCAAGGGGACCAAAAAGACC
 GACCGGGGAACAGGGGCCAAAAGGAAAGAAAGAACCAAGGAG AACCGGGAAGGGAAAGGGAAAAAGGGAACGACAAGGGGAGCA GAAGAGGAAAGGAGGGGGAAGAAAAGAACAAAAAGGATAAAA AAGGGGAGCCCCAGCAAAAAAGAAAAAAAAGAAGAAAGAAGA AAGGGGAACAAACAGGAAAAGACCGAGAGGCCAAAAAAGAAG $C \subset C A C C G G G G G G G G G G G G A A A A A C G G G G G G A A A A G G A A A C B A$ G G GAAA A G GAGGAACCAAGAGGGAGAGGGGAAGGAGAAAC AA
 A A GAA A G G A A A A A A G GAACCGGGAGGAAGGAAGGAAAAAGCC $C C G G A A A A G G A A A A G G G G C A C A A A C C G G G G C C G G G A A G G G G G$ G G A A G G G G G G G GA $A \operatorname{GGGA} A C C A A A G G G A A G G G A A A A A A A G G C C$ G G G G A A A A C C A G G G GCGAGGAC GAGCAAGGGGGGGGAGAAAA G G G GAAAAAAGGGAAAAACCCGAAGAAAGGAGAAAAGGGGGG G GAGAACCGGAGGGGGAAGGGGAGGGGAAGGGGGAAGAAAGG

 A GAAGAGGGGGAGAGGGGCCGGGGGAAACCGGAAGGAAGGCC AAAAGGAAGGAAGGAAAAGGGAAGGAAAGAGGAAAAAGAGGG G GAA $A \operatorname{A} A A C C G G G G C C G A G G G A A A A G A G G G A A G G G A G G G G G G$ $A C C C A A G G A A A A C C G A G A A A A A A A G G C A G G G A G A A A A G A C B A$ AAAGAGGAGAAGGGCAACAGGAAGGAAGAGGGAGGAAAAAAG C CAAAA $A \operatorname{AGGGGGAAAAAAAGGAAAAGGAGGGAAGAAAGGGGCC}$ GGCCGAGGAGAAAGAAGGGAAACCGGGGAAGGGGGCGAAAGA AAAAAGGGTTGGGGCCGAAACCGGAGCACAGGAGGAGGAGAG A G GAGACCGGGGGAAGGGAACCAAAGAAGGCAAAAAAGAAAG
 A G GAA A C C $C$ G G G GAGGGAGGGAAGGGGGACAAAAGAAAAGGTT C CAAA $A$ A $A$ AAAAAGCCGGGGAAGGAGAAGGGGAAAAAA GGGG A A G GAAAAAAAAGGCCAAGGGGCCGGGGGGATAAAAAAAAGA
 GAACAGAGAAAAAAAGGGGGGGGGAAAGACAGCCAAAAGGGG GAGAGAGAAAAGGGAAAGAGAGGAAAGAGGAGGAAGGGGGGG A A G G G GAA $A \operatorname{G} \operatorname{A} A A A A A A A A A G A G G G A A A C X C G G G A G A C A G A G A$ G G G GAGAGGGGGGACCAAAAAACCCAGGAAGGAAGGCAGGAC A A A G A A A C G G C A A G A A G G G G G G G G G G G G C A G A A G G G A G G G G A A GAA $A \operatorname{GAAAAAACCCAGAAGAGGAAAGCAAAAGCAACAATTGG}$ G G G G A A A A A A A A G GCCGGGGCCAAAAAAAAGGGGCAAAAAAA G GAGAGGGAAGGAGGGGGAAAGAGCCGGGGAAAAAACCAGAA AAAGAGGGAAAAAAAAAAAGGGAGAAGGGGCACCACGAAGAG G G GACAGGAGGGAAAAAGGGGGAGGGAAAGCCAGGAGAGGAA G G G G G G A G A A A A T TAA A GAGGGGGTTGGCCAAAAAAAAAAAA GAAGGGGAAAGAAAGAGACCAAAAGGAAAAGGGGGGAAGGAA G GAA A A G G A A A G G G GACCAAGGGGAAGGGGGGGGA GAGAAAA G G G G G A A A G G G A G A A A G G A GAAA A A G G G A A GAAAA A G G G A G G G GAGACGAGAGAGAGAAGCCAAGAAAGGGAAACAAAAGGCCA G G GAGCACAAAGACGGGGGGGCCAAGGAAGAAGGGGC
A A C A A A G GAAA A $A \operatorname{AGGGGGGCCAGAGAAAGACGGGAGGGGAC}$ A GAGAGCCAGAAGGGAGGAGGAGGGAGGAGAGGGGAAAGAGA A A A A A A A G A A A A A A A A G G G G G G G G G G A A A A G G A A G G A A G G A A AAAAAAGGAAAAAAGGGGGGAAGGAAGGAAAACCAAAAAAAA

G GAAGGAAGGGGGGAAAACAAAAAGGAAAAGGAACAAAAAGG A A G G A A A A A A G G A A A A G GAAAA $A \operatorname{A} G G G G G A A C C G G A A A A G G G G$ A A A A A A G GCCAA $\mathcal{A} G A A G G G G A A A A A A C C G G G G G G A A A A G G G G$
 G GAGAAGGAAGGGGGAGGAAAGAAGGAAGGGAAGGAGACAAA GACCGGCCAAGGAAAGCCGAAAAGAGAGGGGGGGAAGAAGGG AAA A G GAGGCAAAAGAGGGAAAACAAGGAGGGAGGGGCAGAG A GAGAAAGGGAGAGGAAAAGAGACAAGACACAAGGAAAGGAG
 AGGAAAGGACGGAGAAGGAGGAGAGGACAAAACCCCGAGAGA
 G G A A G GAA A GAGGGAACAGGAAGGGGAGAAGAAAACCCAAGB A G G G C C G G A A A A G G G G G G A A C A G A A A G G G G A G G G A G G G A A G G CACCGGCAGGGAACAGGGAGAGAGGGGAAGAGGGGGGGAAAA
 A A G G G GAA $A \operatorname{GGGGGGGGA} G A A A A G G A G A A A G A A A A A G G A G G G A$ CATTAAGGGAAAACCCGGAAGAAACCAACAGGGGAAGGAAAA GAAGAAGGGAGGGGGACAAAAAGGGGAATTGGGGGGAGACAA G GAAAACCAAGAAACCGGAAAGGAGGGACCGAGGAAGGGGCA G A G A G A A A G G A A A A A A A A GAGGGGCCAAACGAAA G GAAA A A A G ACAGGAAGCAGGAACCAAACAAGGAAAAAGAGGGAAAAGGTT G GAACCAAAGAAAAAAAGAAAAAAGGAAGGGAAAACAAGAAA G G G A G G G G G G G A G G GACAGAACAAAAGAGAGGGGGGGGAAAA A A G A A A A A A A C A A A G GCCAAAAGGAAAAAAACGGAAGGAGGG C C G G G GA G A A A A A T G GAGACAAGGGGAAAACACCGBAAAGAA A GCAAAAAAAAAGGAAAAAAGAGAGGGGGGAGACAGAGATTA AAAAAGAGCCGGAAAGGGGGAATTGAACGGGAAGGGGGGGAA G G G G G G T A A G A A A C A A G GC C G G G GCC G A G G A A G A A G G G G G G G G G G G G GAAAAAAGGCGTAGGAAAAGGAAAGAGAA GGGAGGGG GAAAGAACAAGGGAAGGGCCGGAGAAAGGGAAAAAAAAAAAA G G G GCCCCGGAAGGAAAGAACCAAAAGAGAACGCGGAAAAAG A A A A A A A A A A A A A A GAGAGAAAAAGAGGGGGGGGAAAAGGGG TACCGGAAGGAATAAAGGAAAACCAAGGGGAAGGAAGAAAAA A A G G A A G G A A A G G G GAGGGAACAGGACAGCAAAGGGGCAAAA A G A G A A A A G G A A G G G G A A G G A A A G A GAAGGGGGC GAA GAA $A$ A A A A G A A G G A A G G A C C G G G G G G G G A A A A A A G GAA A G A A A A G G A A G G G G A A G G G G A A A A G G G GAAAA $A \operatorname{AGGGGGAACCAACCGGGGAA}$ G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG C C C C A A A A G G A A A A C C G G A A A A A A A A G G G G G GC C A A G G A A G G A A G G A A A A G G A A A A G G G GCCCCAAAAGGGGGGGGAACAAACC G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGGAACC A A A A G G A A G G G G C C G G C C A A G G A A G G G G G G G G A A C C A A C C G G AACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG
 C C G G A A A A G G G G G G A A G G A A C C A A G G G G G GCCAAAAC CAA G G C C G G G G G G A A A A G G A A C C A A G G A A G G G G A A G G G G A A G G C C G G A A G G G G G G A A G G G G G G G G G G C C G G G G G G C C A A A A G G G G G G G G A A A A A A A A A A A ATTAAGGGGAAGGCCAATTAAAAAAAACAAA A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAAGGAACCGG G G G G A A T T G G A A A A G GCCCCCCAAAAAAAATTAAAAGGAATT A A A A A ACCAAAAAAAAGGGGAAGGGGAAAAGGAAAACCGGGG A A A A G G G G G GAA $A \operatorname{A} G A A C C G G G G A A G G G G A A G G A A A A C C A G A A$ A A G G G G A A G G G G A A A A G G A A C C A A A A A A A A C CAA G G G G A A A A G GAAAAGGGGCCAATTAAAAGGGGAAAAAAAACCAAAAAAAA G G A A C C A A A A A ACCCCCCCCGGCCGGAAGGAATTAAAAGGGG A A A A G G G G A A A A G G A A A A G GCCCCGGGGGGAAGGAAAAAA G G G G G GCCAGAAGGAAAAAAGCGGGGGGCCCCAAGGGACCGGGG G G A A C C C G G G G C A A A $\mathcal{A} G G G G G G A A A G A G G G G G G G G B A A G G G G$ AAAAAAAACCAACCGGGGAAGAAGGATTGAGACAAAGGGGAC

AAAGGGCCAAAGAGAGGGAAAAAAAAAACAGGAAAGGAGAAA A G GAAA A GAC G GAAAAAGAAAGGAAAAAGAAAAAGAGAAAGGG C CAAAAAGGAGGAGAGGAAGAAAAAGACAAGGAAA GAAAGGGG A A A A A A G G G GAA $A \operatorname{GAAAACGAAGAAAAAGGAGGGAAGGGGAGA}$ CAGAGAGGAGAACACCGGGGAGCCGGAGGGAGAAGAAAAGGG A A G GCGGAGGACGGAGCACCCAAAGGGGAAAAAAAGGAAGCC A A G G A A G G A A C C A A A A T T A A G G G G G G A A G G G G G GC C G G G G A A AAAAAAAAGGAACCGGGGCCGGGGGGAAGGAAAAAAGGAAAA G G A A A A A A G G A A A A A A A A A A A A G GAAGGGGAAAAAA GAAAAA GGAACCGGGGCCGGGGCCAAAAGGGGCCAAGGCCAAGGGGAA C CAA $A \operatorname{GAA} A A G G A A G G A A G G G G A A G A T T C C A A G G G A A A C A A A$
 G G G G G A C C A A C C A G A G G A G G G G G G G A GAAA A C C A C GA G G A A G G
 GGCCAAGGGGAAGGCCAAAACCAAAAAAGGGGCCAAGGGGGG GGCCGGGAGAACACAGCAACCAGGGAAGAGGGGAGAGAAAGA G GAAAAAACCGGAAAAAGAAAAAGACAGGCAGGAGGGGAGAAA A GAA A A GAGGGAAAAAGGGGAAAAAGCAAGAGAGCAAAGGAA A A GAGGGGAAGAGAGAGGGAAAAACAGAGGGGAGGAGAAGAG A G GAAACCAAAGAACGCAGGCCAAAAGGAAGGGGAGACACAG GAAAGGAGAAACGGGAAGCCAAGGGGCCGGAGGAAGGGAAGA
 ACGAGGCAAAAGACAGCCGAGGGAAGGGCCGGAAAAGGAAGG C C G A G G A A A G A A A A C A G GAGGGGGAAAAAAGGCCAAAAAG GA AAAGAAAGAAGAAGGAAGGGACAAAGGGACAAGGAAAAGAAA CACCACATCCACCCAAGAGAAAAGAAGAGGGAGGGGACTAGA G GCAGGGAAAGGAGGAGCGAAGAGAGAAGGAAAAAGAAAGAA A A G GCAGGAACCAACAGAGAAGAAAAGAGGGGGATTGAAGAG G GAA A A A A G GAGGAAGGGAAGGAAAAAAGGAAAAAAAAGGAA C CAGGGAAAAGGAAAAAAGGAGGAGGGGGAAAAGGAAAAGAG
 A GAGCAAGGAGGGAAAAAGGAAGGCCGGGGGGACCAGAAAGG GAGGGGAAGGGCAGGAGGGGGGGACAGAAGAGAAAAGAAAGG GAAGCCAGAGAGGGGGGGAGAGGGCAAGTTGGAAAAAGAAGA G G G G A A A G A G G A A C G G A G G G G A C A A A A G G G A G C C A G A G A A G G $G G A A G G G G G A A A A A A A C A G G A G A G G A A G T A G A A A G G A A A A G A$ CAAAACGGGGGAGAGAAGAAAAGGAAGGGGAAGGGGGGGGGA ACGAGGAGGGCAGGGACAAGAAGGAAGGCGAAAGAGAGAGGA G G A G C C A A A C A A G G A A GAGAAAGAGGGGGGCCCCAAGAAAAA G G G G G GCC G G G G G G A G G G G G A G G G A A G A C C G G G G A A C C A A G G G G G GCCGGGGGGGCGGAAAAAAGGAAGGAAAGCCGGGGAAGA
 AAAAAAGGGAAAAAGGAAAAGGAACCAAAGGGGGGGGGGGGG A A G G A T C C G G G G G G A G A A A A A G G G C C G G A A A G A A G G G G A A G G

 G G GAGGGGCCAAAGAGGGAGAAAAAGAACCAACAAAAAAG GA GAAAAAGGCCCAGAGGAAACACAACCTTAAGACCGGGGAAGA GAAAAGGGAGGAAGAGAAAAAAGGGGGGGGACGAAAAAAGAA AAACAACAAGGGCAGAAAAAAAGGAAAAGAAAAGAGAGAGAA AAAACCGGCCAATTAAAAAAAAGCAAGGGGCCGGAAAGAAGAA A A A A C CAAAC GAAACCGAGAAACCAGGACACCAAGAGGGGGG AACCAACAGAAACAGAGAAGAGAAGAAAGGAAGGAAGAAGCC GAGGAGCCACAGGAAAGGGGGCAAGGGGAAGGAGGGAAAGGG $G G C C G G G A A A G A G G G G A G G G A A G G G A G G G G C C C C A A G$
GAGGAACGAAGGGAAGGGGCCAAGGAAGGAATACCGGGGAG CAAAGGGGAAAAAGAGAAAAAGACAGGGGAGAGACCGGAABAA A G G G A A G A G G A G A G G A T T C C G A A G A A G G G A T T G A G A G GAA C C $C C G G A A G A G G G A A A G G G G G G C A G G A G G A A G C A A A G A G A G G G G$

ACAAGGGGCCGGGACAAAAAGGGGGAAGCCGGAAGGCCAGGC G G GACAAGCCAAGAACAAAGAAAAGAGAAGAACCBAGCGGAC A A C C A C A C G G C C A G A C G A G G G G A G A G G A G A C C C C G A C A G G G G G GCCAAAACAGGGGGAAGAGGCAAGGAGTTGGAGAGCACAAG A G G G G G GAGGCCAGAAGGGGAAAAAGCAAGGGAGGGCCGGCC G G A A A A G A A G G A A G A A A G G A T T G G A A A A G GAA G GA G G G C C A G A G A A A G G G G G A G G G G G G G G G A G C C C C G G A G G A A G G A A G A C A G C CAAGGCCGGAAAAAGGGAAAAGGGGGAACAAAAAAGAGGAG A A G G G G G G G G A G G G G G A G A A G G G A G G A A C C G G G G C A A A A G A G ACAGAAAAGGCCAAAGAAGAAAGGCCGGAAAGGAAAGGAAAG A G G A G G G G G G A C G G A A G GACAC G GCCCCGGAGAGCCGGGGCC G GCCAACCAAGGAAGGCAAGGACAGAAAGGAAGGAAAAAGB G G GACCGGAGACAGAAAGGGAAGGCCGGGGAAAACCAAAGCC
 A GCCGGAAAAAAGGGAGGGGCCGGAAGGGGAACCGGAAAAGG G G G GAGACGGAGAGGAAAGAGGAGAGGAAGAAACGGAGAAAA
 A A A A A G G G G GAGGGGGAAAAAACCGACCGGGGGGGGAGAGAA A G G G G A A G G G G G A A A G G GAA $\operatorname{A}$ G GAAAGAGAAACAGGAGACGAA GAAACCTAAAGAGGCCGGGGAAGGAACGGGAAGAAGAGAGAC G GAAGGGGAAAGGAGGGGCAGGAGAAGGGGGGAGAAAGGGGA AA $\operatorname{A} G \mathrm{G}$ GAAAAGGAAGGAAAACCGACCGAAACCGGGGAAGGAA GA $\operatorname{G} G A A A \operatorname{A} A A \operatorname{A} A G A G G A A A A G G A A G G A A G G G G G G A A G G G G C C$ C C G G G G G G A A A G G G A G G G A A A G A G G G G G A G G G A G A G G G G G C A A A G GCCAA G G G A A A C G A G G A A C G G A C A A A A A GA G G GA G GAC C AAAGGAGGCCAAAAAAGGGAAAAGAAAGCAAAAGAGGGAGTT G G G G G GAA $A \operatorname{GAAA} T A A C C A G G G A A A C G A A A G G G G A A G A G G A G$ CA $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} C \subset C \subset A A G G A A A A C C A A A A G G A A G G$ ACGGAAGACCCAGCAGAACAGGCATTAAGGCCAAGGCCAAGG G G A A A A G G A G A G G G GAGGGGACGGAAAGGGAAAAAAGGAAGG $A C C A G G G A C C G G G A G G G A A G A G G G A G A A A A C C G G G G A A G G G G$ A GAAGGGGGGGAAGAAGGAAAAGGAACCAAAAGGGGAAGAAA A A G GAA A G G GAAAA A $A \operatorname{A} G \mathrm{G} A A A A G G G G G G A A A A G A G G G A G G A G$ A G T TAA A G A A A A G G A A G G A A G G A A G G A A G G G G A A A A A G G G A A CAAGAAAACGACAGAACAAAGGAACCACAGGAGAAACAAAAG
 A G G G A A A A A G G G G G A GAA $A \operatorname{AGGGGAGAGGGACAGGCAGAAAAA}$ TATTAGAGCCACCAAAAGCCGGGGCAGGCCAAGGGACCAAAA GAGGGGGGACGGAACCAACCAGAAAGGAGAAAAAAACACAAA GGCCACGAACGGGGGAAAAAAGACAAGAGGAGGGGATAAAGG C GAAGGGGGAGAAGGGAAAACAAGGGACAGAGAAAAAAAGGG A A G G A A A A C C C A G A G G A A G G A G G G A A G G A GAGGAAACCC C $\mathcal{A} A$ G G G GAAAACCGGCCCAGGAAGGAAAAAAAAAAAAGGAAGGGG G GAA A GAA $A \operatorname{G} G \mathrm{G}$ GAAAACCCGAAGGGGAAGGAAAGAAAAAAAG GACCGAAGAGAAGGGGAGGGGGGGAGAAGGACAGAGGGAGAA G G G A A GAACACAAAAAAAGGCCGGAAAAAAAATTGGGGAAAA G G G GAAGGACAAGAGGCAGGCCAGCCAGGGAAAACCCAAAAA A A A A G G A A G G G GAA $A \operatorname{GGG} \operatorname{GA} A G G A A G G A A T T G G C C C A C A A A G G$ ACAAAAGAAGGGATGGCCGGAAAAAAAAAAGGAATTACAAAA A A G G A A G G A A A G G G C C A A G G GCCCAACCGGGGAACAAAGGGA CAAAGGCAGGAGAAAAAACCAGACAGAAAAGAAAAGAAAA GA T TAA A G A A A A A GCC GACAAAGGCCAAAGAAGGGGGACCCCGG T TAAA $A \operatorname{A} A A A A G G A A G G A G A G C G G G G A A G G G C C G A C A G A G A A A$ A A GAGGGGAAGGAAAAAAAAGAAAGAGAGGGGCCAAGAGAAA GACCAACCAAAGAGGGGGGGACAAGGTAAAGGCCAAGAAAAG A A G A A A C C G G A A A A A A A A A GAGAGGGAGGGCGAGAGACCCGA
 GAAAGAGGGAAAGGAAAAAGATAGGGGAAAGGAGAAGGGAAA A A G GAAGGAGCCGGCCGGAGAAGGAAGGGAAAAAAAAGAGAA

G G GAAAACGGCCAAAAACCCCCGGCCAAGGCCGAGGAAGAAA GACCAGGAGGAAAAAGAGAGGAGGAGGGAAAGAAGACCAGGA A G G G G GAAAGCCAAAAAAGGAAAAAGAAAGGGGGGGAGAAGA
 A A G G G A A A G G G G G G G G G G G GAA $A G G G G A A A G G A A G A A A A G A A G$ G G G A A G A C C G G G A G A G A G G GACAGGGGGAAGAAACCATAAG G A G GACCGAGGGAGAGGAGAGAAAGGAGAAACAGGGGGAAAAG AGGAGAGGAAAAAGAGATAAAAAAGGAACCAAGGGGGGCCAA A A G G A A A A $\mathcal{A} G G G G G A A G G G G A A G G A A G G G G C C A A A A G G A G A A$ $G G C C A A G A A A G A A G G A G A G A A G G G A G G G G A G G G A A A G G C C A G$ GAGGGAAGGAAAGGAAAAGGAGGGGGAAGGACAGGGAGGGAA GAAAGGAGACGAGAAGAGAAAAGAGGGGAATTCCAAAAGAAA A A G GCAGGGGAGGGAAAGGGAGAAAGAAGGGAGGAAGGGGGG AAAAAAGGAAGAAAAAAAGAGGCCAGAAGGGGAAAAAAAACC G G G GAAAAGGAGCAAAAAAAAGGGAAGGGGAACACCGAGAAA G GAAAGGGAGAGGGAGAAAGGGGAAAGGAGGAAGAGAAGAAA G G GAGGAAAGGAAGCAGAGGGAGGTAAGACAGCCAAAGAAAA A A G GAA A G G GAAAGGAAGAAACAGGAGCAGCAAGAGAAGAAA $G G A A A A A A G G A A A A A A G G A A A A A A G A A G A A G G A A C C T T G G G G$ A A GA $\operatorname{G} A C C G G A G G G G A A A A A C C A C G G A A G G C A A G G A G C B G A A$ A A A A G G GAGGAAAGAGGGGGAAAGAGCAGGGAGAAAGGAGAA A A A GAA A GCAGGGAGGGGGGAGAAAAGACCGCGGCCAAAAAA C CAAAACCAAAAGGGGCCAAAAAAAAGGAAGGAGAGAGAGGA
 C C A A A GAAAGCCGAGGGAACGGGAAAAGAACCAAAAGAAC GG G G T TAACCGAGGGGAAGGAAGGGGGGCAGGAAGGAAGGGGCC AAAAAATTCAGGAGGGGGGAGGAAAAAAGAAGGAGCGAGAAA GAAGAAGGGGAAGAAGGGCCGAGAACGAGGCCGAAACCABAA A G G GAA A GAGAAAGGGAAAAAGGAGGGAAAACGGGGGAGGBA TACAAAAAGAGGGGGGGGGGAAGGGAGAAGGGAGGAAGAGCC AACCGGGGCCGGGGAAAAGGAGAGGGGGAGAAAAGGCAAGAA A G G GAAAAAGGAGGAAAAACAAGGGGGGGGAAAGACGGACAG A G G GAA A A A A A A G G GAAGGGGAACAGAAGGCAGAAACAAAAG AACCAGGGGGAAGAGGCAGACAGAGAGAAAGGGGCAAAAAAA A G GA GACAGAGGGACCAGAGCCGGGGGGCCAAGGGAAAGGGG G G G G G GAAAAAAGGGGGGAAAAAACCCCGGAAAAAAAAAAGG AAGGCCAAGGGGAAGGGGAAAAAAAAAAGGAAAAGGAAAAAA AAAAGGGGAGGGGAGAGAAAGGAAAGAGCCGGGGGACCAAGG G G G GAAGGCCAGGAAGCCAGACAAGGAAAGCCAAAAAAAAAA GAACGGCCCCGGAAGAGGAGGGCAAAGAAGAAAAGBAAAAAA $G G A A A C A C G G A G G A A A A A A G A A G G G G A A A A G G A C A A G G A G A A$ A A A A G G G G A A A A A A A G G G A A A A GAGAGGATAGAA G GAAAGA G G $A G G G G G G G G G A A G G A A A G C A G G G G G G A G G G G G G G A A G A G A A A$ G G G G A G A A G G A A GAACAAACGGCCGGACGAGAAAAGCCACAA C C G A A A A G A GAAAAAAAGGACAAAGGCCAAGGAACCCCAGAG G G G G G A G G G G G C A G G G C C G G C C G A G G A G G G A G G G G G A A A A A AAAGGAAAACGGGGGGAAAAGGAACCGGAAGGAAAAAAGGGG A GAAAAAAAAGGAGAAAATTAAAAAAGGAAAAGA GAAAAGAG AAAAAAAAAAGGGACCAGGAGGGAAAGGGGAGGGGGGGAGAA A G G A G G G A A G C A A G G A G A A G G A A A A A A G G G GAGGCAAA G G A A G GCCAACCGGAAAAAGAGGGGGGGCAAGAAGACCAACCAGAC A GCCGGAAAGGAACAGAAGGAAGGGAGGAACCAAACCCGGAG AAAACCGGGGGAGGAAAGGGGAAGAGAAGAAAAAGECAAGCA AGGCCAGATAGGAACGGGCACCGAAAAGGGAAAAAGAACCGG A A A A G GCCGAAGGGAAGGAGAGAGCCAACCACAGGGA
GAAGGGGGGCCAAGGGGAAGGGAGGTAGGGGGGCAAGAGGG AAAAAAGGAAACAAAAGGAAAGGGGGGGCCAGAGACGGAAAA A A A GAAG $A$ G A GAAAAAAGGAGAAAACCGGAAGGGAAAGGAAAA AAAAAGAGAAAAGGGGCCGAAGAAGAGGAGAAGGGGAGAAGA

GAAAAAGAGAGAAGGAGGACACAGAGAGGGAAGAACGGAAGA

 G G G GAA $A$ GAAAAAAAAAAAGAGGAAGGGAAAAGGGAGAACA G GAGACCGGGGAAGGAAGAGGAGGGGGAGAGCAAAAAGGCACC G G G GAAAGAACCGAGAAACCCAACGGAAGAAGCAAACCBGAG A G A A G G A A G G G G G G G G A A A GAA A G A A A G G GAA A A G G G GAAA A AA $A G G G G G G A G A G A A A A A C C G G C C G G A A A A A A G A G G G G A A C C$
 G G G GAA A A G GAGAAGGGCAACAACAGAAAAGAGGAAGGCCBA AAAAAAGAGGAGAAGGAGAAAAGGGGAGGAGGCCCCGGAAGG GAGGAAGGAAAAAGAGAGCAGAAGCCGGAAAAAAGAGGAAAA $G G C C A A A G G G A A A A A A A A G G G G G A G G G A C A G G G G G G G G A A A A$ A GACAGGGGAAGACGGAAAAAAAAAAGGACAAGGAACA GAAA AAAAGGGGAAGAAAAAGGAAGGTTGGGGACCCGGGGAAAABA CAAAAAGGAGGAGGAAAGAGAAGAAAGAAAAGGCAGAAGAAA A A G GAACA $A \operatorname{A} G A A G A A A A G C C A A G G A G G G G G A A G G A A G G G G G G$ $C \subset C \subset A C C C G G G A A A G A A A A G A A A A A A G G G G G G A T A G C C B A C C$ G G C C A A A A G G G G G G A A G G G G G G A A A A G GAAAA A G A A A A A G G A
 C C G A A A A A G G A CAA A A A A G G G G A GAAGGGGGGCCGGCAAAA G ACGGGGAGGGAGAGAGGAGAGAGGCAAAAAAAAGAAAAGGAG GAGGAAAAGGGAAAGGAAGGCCGGCCGAAGAAGAGGGGAAAA $G G A C G A A G G G G G G A A A A A A A G G C C G G G G G A G G G G A A C C B G G G$ A C G A A A C C G G T T G G A A G G G GAA A C A A G G G G C C C C A A C C G G G G A GCGAGGAGAGGAAAGAGAAGCAAAAGAAATTCCGGGGAGAA $C \subset G G G G A A A G A A G G C A C A G A G G A C A G G G C A A A G A A G G G A A C A$ C CAAAAAAACAGGGGGAAAGCAAAAAAAAAACGGAGGGAAAA A A G G G G A G A G G A G G A G A G G A A A G A A A C C G G G G A G G G C A G A G G G G G G G G G G G G A A G G G G GACAAAAACAAAGAACAAGGGGAAC G G G G A A A A G G A A G A G G A G A G G A G A A A G G G G G G G G G G G A A G A G A G GAAAAAACCAAAAGGGGATAGCCAAGGAACAACCCAGGAAA AGCCAGGACAAAGGCCCCGGAGCACCAACCACGGGGAAGGAA A A GA A G G G G GAA $A \operatorname{AGGGGGGGAAAAAAAGAGCCAACAAGGGAA}$ G GAACAAGAAAGGGAAGGGAGAGGGGGGGAGGGGGGAA$G A A A A$ G G G G A A A A A G G G G G G G A GAAAAAAAAAAA AA G G CAAAAA G G G G A $C C G G C C G G A A A A C C C C A C G G A G A G A A G C A G G G G G A A A A G G G G$ G GAGGGGGGGGAAAAACAAAGGGGAAGAGGGGGGGGAAGAAA A A G GCCGGAAGGGGAAAAGAAGAGGGAAACGGCAGAAAAAA G
 $A G A G A C A G A A G G G G A A G G G G A A G G G A A A A G G G A G A G A A G G G A$ A G GA $\operatorname{G} G A \operatorname{A} A A A A A G G A A G G G G A A C C A A G G G A A A A G G G A A C C G G$ A GCAACAGGGAAGGAAAGAAACAAGAAGAAGAGAACGAGAAA GAAGGAAGAGAAAGACAACCGGACAAAAGGAGAAAAGAAAGG A A G G C C G G G G G G G G G G A G G G A A G G G G G G G G A G A G C A A G G G G G G G G G G G A A G A C C G A G G G A G GA G A A C A G G C A A G G A C C G G A G G G G G G GAAGGCCGGGGCCGGAACCAAAAAGCCAAGGGGAGAGAG GAAGAACCAGGGCCAGAGAAAAAGACGGGGGAGGGGAGACAA G G G GCCGGAAAAAACAGAAGAAGAAGAAAGAAAAGGAGGAAA GAAACAGAGAGGAAAGGGGGAACAAAAAGGAAGGGGGGAAAG $A G C C G G C C A A G G G A A A A A A A A A G G A A G A G G G G C C G G G G A G A A$ GAGGAGGAGGAGCCGGGGAAGGAGAACCAAGGGAACGGAAAG A A T TAGCCGGGGGGAAAAGAGGAAGGGGAAGGCCAAAAAAAA A A A GAGAAGGAAGGAACCGGGGCCAAGGGAGGAAGATAAACC GAGGGGGGGGGGGGAAGGGGAAGGCCGAAGAGAAGGGGAAGA GACCAACCAAAAAAGAGGAACCAAGGGGGGAAGGAAGGACAA A A G G G GACGGGGGAGGAAACGGGGAGAAAAAAGACCGGAGAG $G G G A G A G A C G G G G G C A G G A G A A C G C C A A A C A A G A A G G G G G G G$ $G G C C G A A A A A A A A G G A G A G G A A G G A G G G A C T T A A G A A A G A A A$

A G G GAGAGGAAAAAGAGGAAGGGGAACCAAAGAAGGGGAGAA G G A A A A A C A A G G G GAGGGGGGGAAAAGGGGGGAAGGGAAAAA G G G GAAAAAAAACCAAGGGGCCAAAAAAGGGGGGAAAAAAAAA G G G G G GAAAAAAGGGGGGAAAACCAACCGGAAGGCCGGGAAA G G G GCCCCAAAAAAAAAAGGAAGGAAGGAAGGCCAAAAAAGA G GCCGGAAGGAACCGGGGGGCCAAGGGGAAGGGGAAGGAAAA G G G G A A G G A A G G G G G G A A A A A A A A A A A A A A G GAAAAAAAA G G G G G G G GAACCAAGGGGGGAAAGAGGAGAGAAGGAAGAAAAAA GAAAAAAAAGACAACAAGGGGGGGGACAGGGGGGGGAAAGGG AACCGGAAAAAAGGGGGGCCGGAGAAGAAGGGGGAAGAAAAA A A G GAA A A A A G GAAAAGGAGGGCCGGAAAAAGGGAAAAAAGG G G G G G GAA $A \operatorname{GA} A G \operatorname{G} A \mathrm{G} A A A G G A A G G A A G G G G A A G A A G A A G G G G$ GAAAAAAAGAGGGGCCAAGGGAAGAAGGGGGAAAAAAGAGGA G G G G A A GA GAGAGAGACCAAAAGGCCGAGGGGAAAAGGAAAA GACAAGAGCCGGCAAGCAAAAAGAAGGAGAAGAGAAAAAAGG $A G C C G G A A A A G G G G A A A G G G A A G G G G A A G G G G A A G G A A A A A G$ CAAAAAAGAAAAGAGGAAAAAGGGCCGGAAGGAAAAAAAGAG
 GAAAAGAAAGAGGAGGGAAAGGCAGAAAGGACCAAAGGACAA G G G G G GCCAAAAGGAAAAAACCGGAAGGCAAGAGAAAAAACC AAAAAACAGGCAAGGAAGGAAGGAAAAAGAAAAGAAAAAGAG G GAGGAAGAGAAGGAGAAACGGCCAAGGAAGGGGGGGGCCGG AAAGAGCAACCAGGGAGGAGGGGGAAGAAGAAGABAGAAACC GA $\operatorname{G} \operatorname{G} A \mathrm{~A} A \mathrm{G} A C A G A A C C G G A G C C A A C C G G G G G G G A A A A G G G G G$ A A G G A A A A G GAA A G CAAA A A G GAAA A G G G G G G A A G G G G G A A A A GAAAA A A GATTGAGGAAGGAAGAGGAGGAGGGAGAACGGGG ACAAGGGAGGGACCGGAGCCAAGAGAGGAAGGGGAGGAAAAA G G G G G A A GCCAACCAGAGCCGGACGAGGACGGAAAAAAGAGG G G G G G G T T A GAAACGGGGGACCGAAAACAGGACCAGAGGGCA A GAGAAGAGGAAGGAGACGAAGGGACGAAGCAGGAGCCAGAA G G G G G GCCAAAGGGAAAGGAACGGAACAACAAGAAGCCAAGG G G G G GAAGACGGAAAAAAAAGGAAAAGGGGGGGAGAAAGGAG GAGGAGGGGGAAGGCAAAGGAGGGAAGGCCAGAAAACCAGAA AAAA A GAAAAAA $A A A A G G G A A A A A G G G G A G G A G G G A A A G A G A A$ GAGGAAAAGGCCGGAAGGGGAAAAAAGGGGGGCCGGAAAAAA $A A G G C C G G G G A A G G A A G G G G C C A A G G G G A A G G G G A A A A G G G G$ G GAACCGGCCAAAAAAGGGGGGAAGGGAGGAACCAAAAAAAA G GAA A G G G G G G GAA $A \operatorname{GGG} G A A G G A A A A C C A A A A A A C C A A G G C C$ C C G G A A G G G G G G G G C C A A G G C C G G G G A A A A A A A A G G G G G G C C A A A A A A A A G G GAGGGGAAAGAAAACAAGGGGGAGAAAAAAAA AAAAGGGGAAACGGAAGGGGAAAACCGGGACAAGACAAGGAG AA $A$ A A GCAACAAAGAGCCAGGGAAAAAAGGAAGGGGAAAGAC AA G GAAAGGGAAAGGGGAGGGGGAAGAAGGAAAAAGGAGAAA CA $A \operatorname{GA} A A G G G G G A A G G G G G G A G A A A G G G A G G G G G C A A C A A A G$
 A $G G G A A G G G G A A G G G G G G A A G G G G A A A A A G A A A A A A C A A A C C$ ACGAAAGGAAACGGAAAAAGCCGGAGGAAAAGAAGGGAAA GA AAAAGAGACAGGCCAAAAAAGGGAAAAAGGGACCAAGCAAAC A A G GAA A A G G G G A GAA A A GAA $A$ A A A G GAGGGGGGGCATAAAAC G GCACAAAGGGGGGGGAAGAGGAACCGGGGGGAGAAGAAGAA GAGGGAGGAAAAAAGAGGGAAAAAGAGGGGCCGGAGCCGGAA A G G G G G G G A A A GC C G G G G G G G G G G GAAAAAAGAAAA GAA AAAA GAAGAAAACCAAAAGAACAAGAGAGAAGGGAAGGAAAAAA GA AAAAAGCAGGGAAAAAAAGGAAGGAAGACAGGCCAGAGGGAT $G G C A A A G G G G G A G A A G A A A G G G G G C G G G G G A A A A A G C$
C G G G G A A G G A A A A A A A G G G G G G G A A GAGAAGGAAACCAGGG AACCCCAAAGCACCAGGACAAAGGGAAGGAAGGGGGAGAGGG A G A G A G G G G G G G A A A G A A C A G G G G A GA G G GA A A A G G G G A A T T CAAGAGAAGACAAACCAAGGAAAAAAGGAAACAAAAAAGAAG

GAAAGAAGAGGGGAAAGAAAGAAAGGCCAAAGACGAGGCCAA GAGAGGGAGGAAGGAAAAAAAAGGGGGGAACCAAAAGGCAAA CAAAGGAAAAAAGGAAAAGGAAGGGAAAAAGGGAGBAAAAAA ATGGGAGGAAGAAGAAAAGGTAAAGAAGAGGAACAAAAAACAC G G G GAA A G G G G GAAAA A GAA $A \operatorname{A} A C C G G G G G G A A G A A A G G G G G G$
 AAGGAGGGAAAAGAAACCAGGAGACAAAACGGAGGGAGAAAAA AAAGGGGGGGGGGGGGAAACGACCGGAACAGGCCGGGGCCTT A G G G A A A G G G G G A A G G GAC CAAAAAGGGGGGGGGAGAAAAAAC AAAGAAAGGAAAGGGGAAGGAAAAAAGAAAAACCCGAAGGGA CAGGACCCAGAGAAGGAGCCGGAAGGGGAAAGAGAAAAAAGG ACAGAAACGGAGAACAAAAAGGGGGGGGAGCCGGGGGGGGCC AC G GAGGGAAAAAGCAGGGGAAAAGACAAGAGAACAGGAAAA $C \subset G G A A A G G G G A A A A G G G A G A G C C A G A C A G A G G G G G G A A A G A$
 GGCCGAGAGGGAAGGAAGGGGGAACCGGAACCAGGAAACGCC A A A A ACAGCAACCAAAAAGGAACAAGGGGGACAAGGAACCAG AAAAGGCCGGCCAACCGGCAGGGGGGAAGAGGAAAAAAAAGG AA GAAAAAGGCCAAAGCCCAGGAAAGGAGGGGGGGAGAGGAA
 AGCAGGGAGAAGAGAAAGGGAAAAGGAAAAGGGGGGGAAAAA A A A T G G G G GAGGC G GAGGGGGGACAAGAGGGGCCCCAGAGAA AACAGGGGCCCCGGGGAGAAAAAAAGGGGAGGGGGAAGAAGA G GACCCAAAAAAGGAGCCGGAACCAGAACCAAAGGAAGAGAA $G G A A A G A G G G G G G A A G A G A A A A G G C C G G G G C A C A C A A A G A A A$ ACGAGGAACCAAAAAGCAGGAAGGCCAGAGAGAGAGGGCCBA G GAAGAGAAAGGGGGGAAAAGACCAGAACCAAGGAAAAAAAG $A G A G G A G G G G A T A A G G A G A G G G A A G G C C G G A A G G G G G G A G A A$ A A G G G A A G A C G G A G C C A A G G T T G G A A G G G G G A G A C A G A G G G G G GAACAAGAGACGAGAAAGGGGCCAGAACCCAGAGAAAGGGA
 AAAAGGAAGGCCCGGGGGGGAAGAGGAAGAGGGGAAGAAGAG
 G GAAAAAGAGGAGAGGGGGACCAGGAAAGGGAAAGGAAAAAA GAGGGGAAGGCCAAGAGGAAGAGGAAAGGGAAGGAAGGGGGA
 $C \subset G A A A A A G G A A A A G G C C A A A A A A C A A G G G G G A A G A C A G G A G$
 A A A A C C G G G G A A A A A G A GCAAAGGAAAAGGAACCAACCCCCC G GAGGGAAGGAAAACCAAGGAAGAGGGAAAGGTTAAAACCTT GAGGAAAGAAAAACCCGGAGAAGGCAGGATAAAAAACCBGAA G GAAAAGGCCGGAAAAACCAACAACCGGAGAGCAAAGGGGAA GAGAGGAGGGGAGAGAAGAAGGAGAAAGGGCAAAAGAGAAAG
 ACAGGGCCAAAACCGACCGGGGAAGGAGAACCAAGGGGGGAC A GAGAAAGAAAGCAGGGGAAAAAAGGAAGGGGAAAAGGAGAG C CAACCAGGGGGCCTTGGAAAACCCCCCAACAGGAAGAAAAG GAGGGGCCAAAAGGAAAGAACCAAGAGGGGAAA G GAAAGGGG G GAAAAGGAAAAGGGGAACCCCAAGGCCGAGGGGAAGGAGGG G GAA A GCAAAGGAAAGAAGGTAAAGGGGAAGCCCGGCCAAAA A A A A G A A A GAGGAACCAAAGGGAAAGACAGAAAAAAGACAGC $G G C C C C A A G G G G A A G C A A G G A G A A A G G A G G G A G A G G G G G G C G$ GACAGGGGAAAAGACAAGGAAGACGCCAAGGAGAAAAA G GAAA ACAAGAAAAAGACCGGGGGGAAAAGGAAAAAAAAGGCAGGAA AC GAA $A \operatorname{G} G A A G G A A G G A A G G A G A A G A G G A A G A G G G G G A A C C C$ GACGAAAAGGCCGGGGGGGGAAGGGGGGAAGGCCGGGGAGAA G G G G A A A A A A A A G G A A G G A A A A G G A A G G G G G G G G G G A A G G A A $C \subset A A C C G G A A A A A A G G G G A A G G G G G G A A G G A A G G A A G G A G A A$ G GAAAAGGAAGGGGGGGGGGAAGGCCGGTTGGGGCCGGAGAA

G GAAGGGGGGGGTTAAGGAAAAAAGGGGAACCAAGGGGAAAA A A G G G G G G A A A A A A A A A A G GAA A G G G G GAA A GAAAA A G G G A A A A A A G G G G C C G G G G C C G G A A G G A A A A A A G G G GC C G G G G G G C C AA G GAA A GAAGGAAGGAAAACCAAAAAAAACCGAGGAGAGGG G GAA A G G G G G G GAAGGCCAACCAGGGAAGGGGGACCGAAGAG $C \subset C G G G C A G A G G G A A A A A C C G G A G A A A G G G C A G G C C G A A G C C$ AACCGGGACCAAGGAAGAACCAGCAGAAGAGGAAAACCCCCC AAGGAAAAAAAAGGAGAGGGAGAACCGAAAAGCCAGAAGGGG GAA A A C A A G G A G G G GAGGGAGGGGGGAGAAGGGAAGGAAAAA G G GAGGAGAAGGGGAGAGGAGGGGCAGGAAAAAGGGAAGGGG GACCGGGGAAAAGGACGAGGCAAGCAGAAGGGGGCCGGGGGG GAGGAGGAAACCGACCAAGAGAAGGGCAAGGGGGAGTAACAG A A A G G GAA A G G G A A A G A A G G A A A A G GAAGGAAAA G GAAACAAC G G G G G A G G G G G G A A A A G G G G G A G G A G G G C C A C G G A A A C G G A G ACGGCCGGCCAAAACCGGGGGGAAAAGGCCAAGGGGAAAAGA AAAGGGACAGAGGGAAAACCAGGAGGCCGGAAGAAAGGAAAA GAAAAAAGAGAGGAGGCAGGAAGGAGAAGGGAGGGGAAGGAA A G GA $\operatorname{G} G \mathrm{G} G \mathrm{C} C A A A A A A C G G A G A G G A A A A A C C A A A G A G G G G G G A$ G G G G A A G A C G A A C C G GAG GAA G G GAGAGAGGGACGGGGGGCA G G G A C A G A G A A A G G G G A G A G G G A A G G G G C C G G A A A A G G G C A C $A G C C G G A G G G G G A A G G G G G G A G G G G G G G G A G G G A G G G G G G G G$ G G G G G GAAAACCAACCGGGGAAAGGGCCAAAAAATAGAAGAG

 G G GACCGGAAAGCCCAGAAGGGACGGCCGGGGGGAACAAGCC G G G A A A G G A A C C G G G G G G G GAAAACAGAAAGGGAAAA GAACA GAGAAGGAGAAGAAAAAACCAAAAGGGGAAAACAAAACAAAA A A G G A G G G A A A GAAA A G G C A A A A G G G A G G G A A A A A A A C A G G G GAAACCGGGGAGCCATGGAAATGCAAAAAGAGGACGCAAGAC A GAA $A \operatorname{GA} \operatorname{A} G A \operatorname{A} A \mathrm{G} G A A A A G G A T A G G A G G G A G A G G G G A G A A C A$ A A A G G G G A A A G G G G A G A A G G G G A A A A C C A A G G A G A A G G G G A G G GAGGGAAGAGGAAAAACACAGAAAAGGAGAAGGAGGACAAA A GAGAGAGGGCCCCGGGAGGAGAAGAAAGGAAAGCCGAGGCC C C A A A CAA $A \operatorname{GCA} G G G A A G C C C C G G A A A A G A G A G A G G A G A A A G$
 GAGGAAAAGGGAATGGCCGGGAAGAAAAGAAAAAGGAGACAG AAGGCCCAGGGGAAAGAACCAACCAGGGGGAGAAGGAACCCC G GATTTGGAAGAGGAGGGAGGCGGAAGGGGCAAACAAAAAGB AAGGAAAAACGAGGAAAAGGAAGAAACCGGAACCAAAAAAAA
 G GAGCAAAGGAAAAGAGGAGAAGGAGGGGGAACCAGAAAAAG A G G G G A G A C C A A G G G G C C A A T A G G G G A G G A A A A A G G A G G A A G A G G GAAAAAGAAGGAGGGAGAAGAGAGGGAGGGAAGAAAGAA G G G G G G A G G G A G A C A G A G G A G G A G G G T A G G A A A A A C G G A G G A G G A A G GAAACCCGGGAGGGAGAGGGGGGGGAGGGAAAAGAGG G GCAAAAGGGAACCGGAGGGCAAAGGAAGGAAAGGGCAAA G G G G G G G G G G G G G G A A GAGGAGGACCGAGAAGGAAGCGAAAAAA GAACAACCGAGAGAAGAGGAGGAGAGAAGAGGACGGGGGGGG
 A GCC G G A A G G G G A G GAA A A TAA A C G G G G C CAAAAAACAGGGCA A A GA $\operatorname{A} A A A G G A A A G A G A G A A G A A G G G G G G A A C A G A C A A A G B A$ A G G GAACCGGGGCAAAAAGGAGCCAAAAGGGGGGAAGGAAAA G G A A A G G G A G C C G A G A A A A A G A A A G G A A G G A A A G G A G G A A G G AAGGAGGGAACAGAGGAAAGAGGGAGAGGAGGAAGAACACGA GAACAGAAAGCCACGGAAAAAACCAAGGGGGAGAAGG
G G GACAAGAGGGGAAAAAGCCCAAAAAAACCGGAAAAGGCC G G G G A A A A A A C C G G G GAA $A \operatorname{AGCCGGAAGGGGCAAGAAGAAGAC}$
 AAAGGGGAGGGAGAGGTTAAAAAGAGCCGGGGAGAAAAGGAA

A GAAGGAGAAAACCAAGGGGGGAAGGCCGGGGAACCGGAAAA G GAA A G G GCCAGAACAAAAAACGGCCCAAAAAGAGGGGAAAA A G G GAAAA A A A A GAAA $A \operatorname{A} A A A G A G A G G G A G G G G C C G G A A A A G G$ A A G G G G GAAAAAAGGGAAAGATGGAGGGGGGGAAAAGGAACA G GAA A A A A G GAGCAAAGGAAGGAGCAGGGGAAAAAAAAAAAG G GAA A A A GCCAGGGGGGGAAGGAAAACCAACAACAAGAAAAA A A A A G G G G A A G G G G A A A A G G G A G G G G C C A A G G A GA G A G A A G A AACAGGAAGAGGAAGAAAAGCCGGGAGAGAGGAACGACAGAG G G A A A G G G G G G A G G A G A A C C G A G G A A G G A C GAC C A G A C G G A G GAAAGGGACCGAAGGGGGGGTTAACGAAAGAAGAAAACGAAG A GAGAGAAGAAGAGAAAAAAAGGAAGGAAGAAGAAACAAAAA
 C C C C A G G GAGGGCCGGGGGAAGGAAAAGAAAAGGAAGAAAAG C C G G G A A C G G G G G G A A G A G G G G C A A A G G G A A G A G A G G G T T G A AAAAGGCCGAAAGGGCGGGGGGCCGGCCGGGAAAAGAACAAA A A A A G G A G G G G G A A G G G G G G G G A A G C G G GA G G G G G G G G G G G A G GAAAAAAGGGAGGAAGCAAAGCAAAAAGGAAGGGAAAAA G G $A$ G G GAAAGGGGCCGGAATTAAAAAAAAGAAAAACCGGCAGABA CAAAAAGGAGGGCAAAGGAAAAGGAAAAAGAAGAA GACGCGG G GAACCGGAGCCAAAAGGAACCCCAAAGCAGGCCCCGGAGGG G G GAGGCCAAAGAAGAGGCCAAGGAAGGAGGGGGGAAAGGCC G G G G G GACCAAACCGGGAAAGGAAGAAACCGGAAGGCCAAGA $C \subset G G A A A A A G A G G A A A G G C C G G A A A A A C A A A G G G G G G G A G A A$ $G C C A A G A A C C C C A A A C G G G A G A A A G G G G G G A A G G G G A A G G G G$ A A A A CAGAGGAAAGGGAGCCGAAAAAGGGGAAAAGGGAAAGG AAAAGGAAAAGACCGGAAAACCGGAAAAAAGGAAAAGGGGCC
 G GAA A GAAAGGGAAACAGGGAGGGAGAAAAACCAGGGGAAAA $G G A A A G G G G G G G A A G G G G A A G G G G A A G A A A G G A G A G A A A G A T$ AAGGACGGAAGGAGGGGAAAAAGGCAGGGGCCGAAAGAGGGA A GAG G A A A GAG GAAGAAAGGAAAAGGAAGGGAAGBAGAAAAA GAAACCGAAGAGAGGAAAACCCGAGGCCGAGGTTAAAAAAAA A A A A A GAA $A \operatorname{GG} \operatorname{A} A A A A A A A G A A C A A G A A G G G G A A A A A G A A A G$ AAACAGGGACCAGAAAAAGGAGAGACAGGAAGGAAGAAAAGA G GAGGGGGAGAACCAAAAAAAGCACGAGGAGAAAAGGGAGGA G GAAGGGGAAAGGAAAAGAAAGAAGGAACACCGGCCAAAAGG G G GAAAAAAAAAGGCCGGCCAAAAGGGAGAAGGAGGAGAGAC AACCAACCGGAGGGGAAACGGGACAGGGGGAAGGGACGAGAG G G A G A C G G G G A G A A G G A G G G C A A G A G G A A A A A G G G A A G G G G A G G A G A G A A A C A A A A G G A A G G G G G G A G C C G A G G G G G G G G G G G G A GAGAACAAAGAAAGGGGCCAAAGGAGGGGAAAAAAAAAAAA G G G G A A A A ACCCAAAAAAAGAGAACCAAAAAAGGAAAGAA GA AAGGGGGGAACCAAGACCAAACGGGAGAAGAGAGGGGGGGTA AAAGAAAAAAAAAGGGGGGGAGAGAAAGAATTGAAAGAACAG A G G G G A G G A A G GA $A \operatorname{GA} A C X A A G A A G G A A G G G G G A G A G A C A G A C$ GA $A \operatorname{G} A A G G A A G G G A G G G A G A G G G G G G A A A A A A C A G G B A G A G G$ $G G C C G A G G A G G G A A G G A G G A G G G G C C G G G G A C A A G A A A G G G G$ A G G G GACCAAGGGGGACAAGGGGGAAGAGAAA
 A A G GAAGCCCCCAAGGAGAGAAGGAAGGGAAGCCAAAAGGAA
 $A G C C A A G G A A G G G G A A G A A G G G A G A G A C G G A G A A A G G A G A A A$ CAAAGGAAGGAAAGCCAGAGCCGGAGGAAAGAAAGGAAGAAA ACAACCGGACAAGGAAAAGGAGAAAAGGGGGGCCGGCCGGGA G G A G A A G G G G G G G G G G G G G G G A A A G G G G G C G A A T A G G A A G G A G G A A A A A A GACCAGGAAAAAAGAACCAGGGGGCAGGCCAGAA GAAAGAAAAAAGGAAAAAGGGGAAGGAAAGCCAGGGAGGGGG C C G G G G GAACGGGGAAGAAAAAAAGGAGCCAAGGAGAAAAGG AAGGAACCGGCAACACAGGGAAGGGGTAGGCAGAAATTAAAG

A A A G G G GAAGAACCAAGGAAAAAAAATTCCGGGGCCAGGGCA A A G GAA A GAAA A GAGGAAAAGGGAAAAGGGCAAAACAGAA GA A GAAAGAAAAGAAGGGCAAAAGGGACGGAGGGAAAAACAGAA AAGAACGAAAAAACGGCAGGGAGACAGGAAAAAAGGAGGGGG A G GAGAGAGGAACCAAAAGGGGGAAGCCGGAAGGAAAAAAAG G G A G G A A A G G G A A A G G G G G G G A C C A A G G A A A A A A G G G A C A A A GAAGAGAGCACCCCGGAGGGGGGGGGGGGGAAAAAAAAGAAA A A GAGAAAGGAAGGGGCCAAGGGGGGGGCCGGTTGGGGAAGG G GAAAACCGGGGAACCAAAAGGAAAAAAGGCCGGAAGGAGAA G GAAAAGGAAAACCCCGGGGAAAAAACCGGGGAAGGGGCCAA C CAA $A \operatorname{GCC} C G C A C A A A G G G A A A A A G G A C A G A A A A C A G A A A C A$ A GAA A G G A A A G G G G G G A A A A G G G G A A G G G A A A G GA GAA GA G C GAGGAAAAGAGGAGCCCAGAGGCACCAAAAAACCAGGACGBA $G C A A A A A A G G A G G A G G G G A G A C G G G G A A G G A A G G A A A A A A A A$ AAAGTAAAATCAGAAGGGGGAAAACCGAGACAAAACGGAAGG AA $A G G G G G A A G A C C G G G A A A A G G G C C G G A A A A C C A A G G A A A G$ GAAAGGAGGAACAAAAGAAAACGGACAGGGAAGGAAGGAGAA A G G G G G G G A A A GAGAACCAGAAACCAGGGGGAGAAGGAGGCA GACCGCCACAAAAAAGGAGGGAGGAACCGAAACCAGGGGGGG CAAAAAGGAAAACCGAGGAGGAAGAAAAGGGAGGGGGGAGCA A G G GAAAAGGCCGAAAAAGGAAGGGGGGGAAAGGACAAAGAG A A A A A A C A GAGAGGGGAATACCGGAGGGCCAAAGGACAAAAA G G G A G A A G A G T A A A G GCAA G G G G G CAATGGCCAAGGGGAAAA
 GAAAGAAGACAAAGGGGGAAGAGACCGGGGAAGACCGGAGGG GACGAGCCAACCAAGGGGCCAGGGAAGGAAGGCCGGAAGAAA GGCCCCAGCAAAGAGGAGGAAGGACAAGAAAGAGAGGACAAG

 A G G GAGGAGGAAAAAAGGAAAAAAGGAACCGGGGGGAAAAGAG G G G A G G G G G G A G G G G A A C A GAGGGGAAGAAGAAA GAGACCCC G G GAGGGGAGCCGGGGACGAAAGAAGAGAGGGGGTAAGGGCA A GACAAAGAAGGAACCCAGGAGAGAGCCGAGGGGAGGGAAAA GACCGGAGAGAGAAAAAGAAAACCAAGGGGCCCCGAGAAAAA A A G G G G T T C C G A G G A G C C G G G G G A A C G A A A G A G GCC G G G A G A
 G GAAAGGGGGGAAAGGGGAAAAAAGGACGGAAAAACCAAAAA A A A A A A A A A G G GAAAAAAAGAGGAGGGACAAAACAAAAAGAA A GAAAAGGGGAGAGACAAGGAGGGAAGGAAAAAACCGCAAGB A G G G G GA GAACCGGAAAGAAACGGAGGGAAGAACAGGAAGAG $G G C A A G C C A A A G A A G A A G A A G A A A G G G A A A G G A A A A C C G G G A$ A GAGAAGACAGAACGACCGGAGGGCCACAAAAGGCCAAGAGG AAGGAAGAGACCAGCCGGGAGAACCACAGAGGGACCAAAAGG
 G GAACAGGGACCCAGGGACAGGAACCCCAGCCAAGGGGAGAG GAGAAAAAAAAAGGCAAGGGCCGGAAAAGAAAGAGAAAGGGG AAAGGGCCCACCCCGGCCGGAGGAAAAGAAAAAAGAAGAAAG G G GAAAGGGGGGAAAGCAGAGCAGAAGGGGAAGAGGCCAGAA G GAACCGGAAAACCGGAGGGAGGGAGGGAAGGCCGGAGACAG AA G GAAGGAGAAAAAGAAAGAGACGAGGGAGAGAGGAAGGGG ACGAA $\mathrm{C} A \mathrm{~A}$ G A GAAGACCGGAAAAAAGGAAGGAGAGGGGGGGGG GAGAGAGGGAAGGGAAGGTTGGAAGGAGAAAAAAAAAACCAA
 AAAACCAAGGGGAAGGAGACCAAGGGGGGGCCGGGGAGAAGG A A A A G G GATTAAAAAGAAAAAGGGGGGGAAGGGGGAAAGGGG G G G GAAGGAAAAACGAGAGAGAAGAGACAGGGAAAAGGAAAA $G G A A T T G A G G G A G A A G C C G G A A G G G A A G A A G A G G G A A G A C A A$
 $C \subset A A A A G G A A G G G G A A A A G A C C G A G A A A A G G A A G C C A G G A A A$

G G G G A A A A A A A A A A A A A A A A A A C C GAGAGGAGAGGAGAGACA G G G A A G A A A A A A A A G G A GAACCGGGGCAAGAAGGCCCCAGGG G G A A G G G G GAAAGGAAGGAAGGGGCCAAAAAAAAAGAAGAGG
 G G T T G G G G GAGGGGCCAAAAGAGAGGGGGAAAAGGGGGGGGG G G A A A A G G G G A G G A A G A A G GAA $A$ G G CAGAAAAAAAAA A G G G T T G G G G G G A G A A G G G G A A G A G G G G A A GAGACCAGAGGAGAAAAA $G G A G A G A A G G G G C C G G G G A A G G A A A A G G A A C C A A C C A A G G G G$ G G A A $\mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A G G A A A A A G G G G G G G A A A A A A G B A G C C$ G G G GCCGGAGGGAAAAGGGGAAGGGAGGAGAAAGAAGGAGAG AAGGAACCAAAAAAAACCAACCAGAGAAAAAAAGGGAGACAA GAAAAAAGAGAAGAGGAAAAGGGAAAAAGGAAAGAAGGAAAA GAAGGGAGGGAAAGGAGAGAAAAAAGAAGGAGAGAGGAGGAAA G GAGAAAGAGGAGGAACCCAGGGAGGGAGGGGGGAAAGAGAA A A G GACGAGGATAAGGACCGTAGAAGAAGGAAAAAAAAAAAA G GAA A G G G G GAGAA $A \operatorname{AGAAGGAAAAAAAAGGGGGAGGAAAAAG}$ ATGAAAACGGGGAAATGGAAGGCCGGGGAAGGGGGGGGAA$G A$ G G G G A A A A G GAAGGAACCGGAAAAAAAAAAAAGAAGAAGACC AACCGGGAAAAAGGGAGAAGCAGGAAGGAAAGATGGGGAGAA A A GAAA A A G G G GAAAAGAAGAAAAAAGGAAGGCAAAAA GAAC GACCGGACAAGGGAGGGGAAGGAAAGCCGGACGGCAGAAAGG AAAGAGGAGGAGGAGGTTCCGAAGAAGAAAAAGGAAAAAGAG G G G A A A G A A A A G GAGGCCCCAAAGAGACGGGATACAAGGGGG A A A C G G A $\mathcal{A} G G G G G G A G G G G G A A C A G G G G G G A G G G A C A A G G A A$
 AACCAAGGAGAGACCCGGGGGAAAAAAAAAGGAGGAGAAGGA AACCCAAGAGAGGAGGTTACGAGAGGACACCAAGCAAGACGG A G G GCCCCAACCGGAAAAAAGGGAAGCACAAGGAAGAGAGAG A A A A A GAAA A GACCGGGAGGCAGGAAGAGAGGGGGGGAAAAA G GAAGGAGCACAAAAAGGGGAAAGGGGGGGGGAAGAAAAACC G G C C G A G G C A A G G G G G G G C C G G G C T T G A G G G G C A G G G A G A G G G G A A G G A A A A GAGAGAAGGGGAAGGGAGAAGGCCAACAAAGA
 G GAGAAAGACAGAAAAAGCAGAAGAAGGCCGAAAGBAAGACC G G TAA A CA $A \operatorname{GA} A G \operatorname{A} A A A G G G A A A A C A G C A G A A C A G G G A A G G G G$ GACCAAAGGAAGGGGAGGAGAGGAGGCCAGAAAAAGCAAAAG
 AA G GAAAAGGCCGGACGGCCGGAAGAGACCGAAACAAGAACC A A G G A A G GCA G GAA A G G G A A A CAGGGAGAACCAGGGAGAAAA A GAAAAAAGGAAGGCAACAGGGAAAAAGAAAAGAGGGCAA GA A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A G G G G G G A G A C A T G G G G A A A A G G A G G G G G$ A ACCAA $C$ A G GAACAAAAGGGCCAACCCCCCAAAA GACCGGGG AACCAAGGGGGAAAAAGGAGGGCGAGAGCCGGGGGGGGAACC ACGGAAAAAACCAAAAAGAAAAAAAAGGAAACBAAAGGAGAA A A GA $\operatorname{A} G A A \operatorname{A} A A A G G G A A G G G G G G G G A G G A A C A G C A A C A A G G G G$ A A G G G G G G A A A G A A G G G G A A C C A GAG G A A G G A A G G G G G G A G G $A G G A C C G G A G C A A A G G G G G G A G A A G G A A G G G G G G A G G G A A G G$ $G G C C A A G A G A A A G A A A A A A G A A C C G G A G A A A C A A A G G$
AATAGGAGAGAGGGAGAAACAGACAGAGGCGGAAGAAGAGG C C A A A GAA A GCCAGGGGGAAAGCGGGGAAGACCAACGAAACC G GAAAGGGAGAGGAGGAAAAGGACGGAAGGAAGGGAAAGGGG A G G G A A GAGGCCGGGGCCGGAAGGAAAAAAGGAAAACAAGGG G G G G G G A G G G G G G G A A G G G G C C G G C C G G C A A C G G G G G G C C A A G GAA A G GAAAGGCAGAGAGGAAGGAAAAAAGACAGGCCAAAG
 G GCCAAGGGGAACCTTCAGGATAGAAATAAGAGGGAAAAAGBG GAGGGGAGGAGGAGAAGGGGAAAGGACAAGAAGGCCGGAGGG GAAAGGGGAAGGGCCCGGAAGGAAAAGGAAGGAGGACCAAAG CAGGAGAAACGAGGAAGGCCGGAGAAAAGGAAAAGGGCAAAA

A A G G A A G A GAGGAGGGAACAGGAAAAGAGGAGGAGAAGACAG A A A CAA A G G GAGGAGAAAGGAAGGGACAGAGGGGAGAAGAAG A A A A GAA $A$ A $A \operatorname{AAAGGACAGCCGGGGAAAGAGCCAAAAGAGGAA}$ A A G G G GAA $A \operatorname{A} A A G G C C A A A G A G G G G G A A A G G G A A G A G A A G G A$ AA $A G C C T T A A A A G G A A A G G A G G G G A A A C A A A A G G A T A A G G G G$
 A A GAAAGGCAAGGAAGGGCCGGGACCAAGGAAGAAAGAACAA GACCCCAAAAAAGACAGAAAGGAAGGGGAGAGAAAGGGGGGA G G A A A G G G A GCCGGGGGGAAGGGGGGCCGGGAGAAAGAAAAA AAAGAAGAAAGGGGAAAAAAGGAAAAAGGAAAAGAGAAAAAG GAGGAAAGCAAAAAGAAGGGGCAAGGAAGGGGGGCAAAAGAG A A A G A G G G G A A A A A G A G G A G G G G A G G A A C A G G G G G A A A C C G G A G A A C C A G A G A T A A $\mathcal{A} G G A G G G G G A G G G G G G A A G G A G G G A A G G$ A G A G A A A G G G A A G A C CAA G G G GCCCCCCCAATACCCCAACCAG
 A A G G G GCC G GAGGAAGGGAGAGAGGGGGAAAGAC GAAGGGGA G G G A A A A G A A A GAAA T G G G GAAAAAGAGGAAGGGAGAAAGCC A A A A A C G A A A G G G GCCAAACAAGGAAGGGGAGAGGGAGGGGG C CAA $A G A A C C A A G A G G G G G G G G G G G A A A A G A A A G A A A G A A G A$ G GAA $\operatorname{A} G C \subset A A G G C C C C G G G G G G G G G A A A G G G A A A G A G G C A C C$ GAAAAAGGGGAAAAGGGGAGAGGGAGCAGGAAAAAAAAGGCC A A G G G G G G A A G GAACAAGGGAGGGGGCCAGAAGGGGGAAAA G AAGGGGAACCTTGGCCCCGGAACCAAAAGAAAAGGAGATAAG GAA $A \operatorname{G} A \mathrm{~A} A A \operatorname{A} A G G A G A A G G G A G G G G A A A G G G G C C G G C G G G G G$ A A A A A C A A A G G G A G G G A A G G A A G G G GACGGAA GA GACA G G G G G GC G G G A G A G G G G G G G T T G A G G G G G GA GAAAGGA GAACAAAA AA $A$ A G GAAAGAAAAGAGAGGCCGCGCGGAAAGGACAAGAAAG AAGGGGAAAAAAAGAACCGGAAAGCCCCAAAAAGAAAAAAGA G G G A A A A A CAGGGGGACAGGGAAGAAGATAAAAAAAAGACAA CCGGAGCCGACCAAAAAGCCAAGGGGACAGGGAGGAAAAGAA GAAGGAAGAAAGCCGAGAGAAGAGCACCCCAGACCCACBGCA AGGAAAAAGGTTGAGGGGCCGGCAGAGGAAAAGGAAAGAGGG C CAAAA A A A G GAGGGGTTGGGAAAAGCCAAGGGGAAGAGGAA A A G G G A G G G A G A A A G G A A A A G G G G C C G G G G A A C A A A A G A G A A C C A A A A A A G GAAGGAAAAACCCAGAAGGGGAAAAAAAAGGGG A A G G A A A A GAAAAAAGGGAAAAAAGGGAGAAAAAAAGAAAAA

 G G A G A T G G A C G G A G A A A G G A G G G G GAAA $A$ A GAGAAAAAA A A C C
 AAGGCCAAAGAAGGAAAAGAGGAAAAAAAAGGAAGGGGAAGG GAACGGAGGGGGACCAGGGGGAAAAGCCGAAGACAAGAAAAA G GAACCAAGGGGCCGGGGGGGGAAGGGGAGAAGGAAAAAGGG C C G G A A A G G G G GAAAAGGAAGGAAAAAAAGAGAA GAA GA GA G GAGAAAGAAGGAGGAGGGAGAACAAAGGAAAGGAAGAAAGAG G G G G G G A G GA G GAAA A A A C G GA GAA A G GAGAGAA G G G CACAA A G G A C G G G A A A GAGAGGAAAAGGAGATAAGGAAGAGGGGAAAA G GCCAAGGGAACGAGGCAGAAGGGGGCCGAGGACTTCCAGAA G G G GAACCGGCGCCAGGGAAAAGGAAGGGAGAAAGAGGGGTT G GAGCAGGAGCAGGCCACGGAAGACCGAGAGGGAGGAAAGGG A GACTTAGGAAGAACCGGAGAAGGAGAGCAAAGGGGGBAACA AAAACGGGGGAAAAAAAAAGGACCAAAAGGAAGGGGAAAGAC CACCAAGGGGAGAGGGAGCCAGAGGGGAAGGAAGAGGGAGAA GAACGAGACCAAAAGGAAGGAAAAGGAAGGCCGGAAGAAAAA AACGAAAAAGACAGAGAAGGGGAAAGAAGAAAGACCGAAGAA A A G G G G TAGGGGGAAGAAGGAGAAGGCCAAAGAGGGAAAACC A GAGAAGGAACAAATTCCGGAGGAAGTTAAACAAAAGGGGCC
 GGAAAAAACCGGAACAAGGAGGAAAAGGGGAGGGAAAGGGGG

 G GAACAGGGGGGGGGGGGGGAAAAAAAGGGAGGGAGGGAGAA G GAAATGGAGGGAAGGAAGAAAAAGAAGCCCAAAAGAACCAA GAAGCACCAGCAGATTAAGGAATTTTCCAAAAAAGGAGGAGG A GAAAAAGAAAACGGGTTACAAAGACGGAACCGGGAAAAGAG
 A GAACCAGAAAAAAAAGGCCAAGAAAGAAGAGGGGGAGCCCG G G G G G G G A A A G G G G C C A A G G G G A G G G A GAACAAAA G GAAA G G AAGAGGGGGAAGGAGGGGGGAACCGGGGGGCACCAGATACAG C CAACCGAGAGGGGAAAGGAAAAGGGAAAACAAAACGGGGGG G GAAAGAGGGAGAAAAGGAATAGAGGCCAAGGAAAAAATXAA C CAGCCGGGGAAAAAAGGAAGGAAAAGGAAAAGGAAGAGGAA $A G C C A A G G G A G G G G A G C C A A G G G A A A C C A G A G A G C A A C G G G G$ A G G A A C A G G A G G A A T A G G G G G G A A A A G G G G G G G G A A G G G G G G G G G G G G G G A A G G T A A A G GAA $A \operatorname{AGGGAAAGCCAAGGGGCCGGAT}$ G G G G G G A A G G G GAACCAACCAAAAAAAAAACCCCAAAAAATT G G G A A A A GCA G A A A A G GAGGAAGGCACAAAGAGAA GAGGGGG A GAAAAGGAAGGAAAAAACCAAAAGGGAGGAAGGCCGGAAAA A G A G G G A A C C G G A A A A C C A A G G G G G G A A G G A A G G G G G G G G A A GGGGCCAAGGTTGGAAAAAAAACCAAAAAAGGAAGGAAAACC A A A A A A G G G G G GAGAAAAGGAAAACCAACCGGTTAGAAAGCC $G G A A A A A A G G A A C C A A A A G G G G G G A A A A A A A G A A A A A G A G A A$ G G G A G G G A C C G G G G GAA $A \operatorname{GGGGGCCACACGACATTGGAAAGAA}$ GAAGCAGAAGCAAGAGAACCGGGGGGAGAGAGCAGGGGAGAA AACCAAGGAAGGAGAAGAAGGCCAAGGAGAGGAGGGGACAAA AAGGAGACAAGAGGCACCAAAACCAGGGCCGGCCCAGACAGG A ACC G GA $\mathcal{A} G G A A A G A C G A A G C C G G A G G G A G G G G G G A G G A A G G$ C G G A A G G G A A G G G G C C G GAAAACCAGTAGAACGGCCGGAAGA $G G A A G A A A A G G G A G A G A G A C A G G G A A A A A A G A A A A A A A G G G G$ C CAA $A \operatorname{GAAAACAAAGGAGGGAAGGGGGAAGGCCGGAGCGAA} G A$ GAGGACGAAAAAGGCCGAGGCCAGGGCCAAAGAGGGAAAGAA G GAGGGAGGCAGGGAAAAAGAAGAAACCAAAAGGGGCCGGGG A A G G A A A A A A G GAAAACCGGAAGAAAGAGAGGAAAAGAGAAA GAGAAAACCAAACAAAAGAAGGAAAAGGGAACCCGAAGAACA A G A C A A G G A A A A A C A G A A A A A C G G A A GAGAAGCCCAGAAGAC A GCAGAAAGGAAAACCAAAAGGCCGGAAGGAGGAAAGGAGAA G G G GAA $\operatorname{A} G A A T A A G G G A A A A A A A A A A A A C C A A G G A A G G C C G G$ $G G C C G G A A G G G G G G A A G G C C G G G G A A G G A A C C A A A A A A A A A A$
 C C C C G GCCAGGAGAGAACAAAAGGAAAAAGGAAAAAAAGA GA G G G G T T A A A A A A G G G G A A G G G G A A A A G G G G A A G G C C A A G G G A G G G G G G G G GACCGGAACCAGACGGAAGGAAGGCCGAAAGAAA C C G G A A G A G G G G A A G G G G A A A A G GCCAGGGGAGGAAAAAA GA A A A A G G G A A T A A A A A A A A G G G G G G A A GAAAACTTAAAACC C A A A A G A A A A A A A GAGGAGACCCGGTTAGAACACAAA GGGGGCAG A G G A G A G G G G G G C C G G A A G G A G G G G G G A A A G G A A A CAA A A A T GAAAAGGAGAGGGAGGAAAAGGGGAAGGGATTGGAAG
AAAGGAAGACCGGAAGAAAAGGGGGGGGACCGGGGAACCGG A GCCAAAACCGACCAAAGGGAAGGAGAACACAGAGGGGAAGG G G G GAGAAGACCAGAGGAGAAGAAGGAAAAAAGGAAGAAAGG AGCCCCGGAGAAAAAAACGAAGACAAAAAGCCGGAAAATTGG A G G G A A G G C A A A G A A C G A A A C C A A G G G G G A C G A G G A C C A A T T AAAACCAGGAAGAAAAGGAACAAAAAGGGGGGGGGGGGCCGG G G GAGGGGGGAAAACCGGGGGAAAGGGGGGGAGAGGGAAGAA A GCCCAAGAGAGAACACCGGGGCCGGGAGGGGAAGGGGAGGA GACAGGAAGAAGGAAGCCAAAAAGCCGGGGGGATCAAGAAAG G G G G C G A A G G G G A G G A G A G G C C A A G G G G G G G G A A G A A A G G A A $G G G G C C A G A A G G A G G G A G G G C C A A G G G G G G A A A A G G G G A G A G$

G GCGAACCGGGGCAAAGGAAAAGGGACCGGAAAAGGAGAAAG GAGGAGACAGGGCCGGGGCAAAGGAGAAAGGAAAAGGAAGAG A GAA A G A A C C A A G G GCAGGGCAAGGGAAGGGGAGAAAACCAC AAAGAAGAGGGGCCAAAGTAAAAGGGAAAAAAATCCGGAAGAG G G G GAAAGCCAGAACGAGAAAGGGGAGAAGAGAA GAAGGGCC A G G A A G A A T T A A G G A A GA GA GAA A G G C C C A G G A A A T G G G G A A G A G G A A G G T A G G A G G A A A G G A A G G G G G G G G G G C C T T G A A G G G G GAAGGAAGGAAAAAAAAGGCCCCGGAACCGGAAAAAAAAGG A A A A A A A A A A A A A CAA G G GAAAGGAAATCCCAGAAAGAAACC A GAGAGGGACGGGGGGGGCCAAGGGGAGAGCAAAAAAAGACC T TAAAAGGAAGGAGGGAGGGAGGGAAGGAACCAAGAAGAAGA AAACCCGGCAGGGGGAGAGGGGCAAAAAAAAAAGAAAAGAAA C C CA $A G G A G G A G G G A A G G A A G G A A G G A G A G A G G G G A A A G G G A$ G G G A A A G G G G G G A G A A C C A A G G G A A A G G G G A A C C G GA C A G G G A A G G G GACAAACAACCAAAAGAGGCCGGGGGGGGCACAAAGG C CAAAGGCGAAAGGGAAAAGCCAAAAAGAAAAACAGGGGGGA
 G G G G A A G GCC G A C C G G G GAGGGGGAACCGAGGAGAAGAAGCC G G G GAAG GAGAAAAAAGGAAGAAGGGGGCAAAACACCCAGGA A A A A A A A A G G G A G G G G A A A A $\operatorname{A} G A A A G G A G A A G G G G G A C C G G G G$ $C \subset A A A A G G G G G G A A A A A A A A G G A A A A G G G G A A A A A A G G G G G G$ G GCCAAGGAAGGGGGGGGGAGGAAAAGAAAAAGGGGGAAAAA A A G G G G A A A A A A A A GAACCCAAGGGGGAGGAAAACAAAAGCC
 C C G GAA A A A A GAGGCCAGGAAAAGGGCCGGAGAAAAAGAAAG GAGAACGGGGGGGAGGAAGGAGCCAAAAGGCCGAAAAGGGGG G G GA $\operatorname{G} A A G C C G G A A G G A A G G G G G G G G A A A A A A A A G G G G A A G G$ G G G G A A G G G G A A A G G G G G C C G A A A GAGAAAAA G GAAAAAC G G AAGGCAAGAAGGCCGACCACGGAAAAGGAAGGCCGAGAACAA A GAAGGCCAGCCAGGGGGGGGGAAAGAAAACCGGGAGGAAAA C C G G G G A G A G A A A A A A G G T T G G A A GAGGAAAAAACCAA G GAA AAAAGGCCCCGGAAAAGGAAGGGGGGAAGGAACCAAAAAAAA


 A A A A G A A G G A A A G G G A A GAAGGAAAAGGGAAAAACCGAAAA G A GAGGGGGAAAAGAAAGAGGGGAAAGAGGGAGAGCCAGCCCC A A A A A A G GAGAAGGAAAAGGGGGAGAGAGAAAGGGGAACAAA A A A A A G G G A A G G G G C CAAAA A G A A A A A A A A A A A A A A A A C A G G A A G G A A A G G G G G G G A G G G A G G A G G G G G G C C A G G G G G G G C C A A CACCGAAGAAGGAAAAGGAAAAGGAACCGAAGCCAAGAAAGAG
 GAGACCGGCCGAGGCCAGCCGGGAGGAAGGGGGAGAGAAGGG AA G GAACCAAAGGGAAAAGACCAAGGAAAAAGGAAAGGAGCC
 $G G A G A C G G G A A A A A A A G G A G A A A G A A C A G G A A G G A G G G A A G A$ G G G G A A A A A GAAA $A$ G GAAAAAGAAAGGCCGGAAAAAGAGGGCC G G G G G GCC G GAAAGCACCGAAAGGGAACGGGAAAAGGGAGAA G G G G G A C A GAACCC G G GAAGAGAGGGGAGACCTTAAGGCAAA G G G G G GCC G A A GAAAA A A A A GAA A GAAGGGGAAAAA GAGAA G G GAAA $A \operatorname{A} A \mathrm{~A} G A A \operatorname{A} A A A A A G A G A A A G G G G G A G G G G G G A A G A G G G$ A ATTAGAGAGGAAACCGAAGGGAACCGAGAAAACAGAGAA GA A A A A A A C A G G T A G G A A G G A G A A A A A A A A A A G GAA G GAAAAAA A G G GAGGAGGGAAGAAGAGAAAAACGAAGGGGAAGAGAAAGA A GAGATAGGAGAAAAAAACAAGAGAGGGTTAACCAACCGGCC A A GAGGAAGGGGAGGGGACAAAAGGGGAGGGAGGGGACAAAA A A G G G A A G G G A A $\mathcal{A} G G A G G G G A G A A G G G G G G A A G G A G A A A A G G$ A A A A A A A A CC G G G GCCAGAAAACC GAAAAGAACCGGGGACAA A GAAGGGGCAAAGGGGACGAACGAAGAAAGGAGAGGAAGGCA

G GACAGAAGGGGGAGCGGAGGAAAGGAAAAGAGGGAAAAGAA G G G A G G G A G G A A GA GAGAAAAAGGAACCAAGGAGGGGGAGAA G G G G G A G G G G A A A A G G G A A A A G G G C G A A A A G GAAC C G G G G G G A G G GAAAAGGGGACAAAAGAAAGAGAAAAAAGCAAAAGAAAA A A GAAAAGGGAGGGGGGGAAGGAAGGAAAAAAAGACGAGGAA G G A A G A A $\mathcal{A} G G G A G G A A G G G G G G A A G G G G A A G A A A A A A G A A A G$
 A G G A A A G G G G G G G G G G A A A A A A T T G A A G C CAA $A \operatorname{A} G G G G G G G G G$ A ACCAAGAAGCACCGGGGCCAGACAAGGGGAGGGGGAAGAAA AAGGACAAAAACGGAAAAGGAAGGGAAAGACACCGAAGGGAG GAAAATGGAAGGGAAGAGGAAGAGAAGGGGAGGGCCCAAAAG
 G G A A A G A A G G G A A G G A A G G G G G G G G G A G A G A A A C G G A A A G A A $G G A A G G A A A G G G G G G G A G A G A T G A G G G A G A C C A A G A A A G G G G$ G GAGGGAAAGAAGGAAGGCAAGGAAAGGAAAGAAGGAAACTT AAATGGAAGGAAAACAGGGAAAAAAAAGGGGGGGGGAGAAGA
 AAAGGGCCAACCCCGACCAGGGGGAAAAAAAGCAGGGAGACA A GAAAGCAGGGGAAGGCCACAAACGAAAAGTAAAAAGGGGGAA G GCCAAAACCGGGGAACCGGGGGGTTGAACAAAACGGACAAA G GAAGGGGAGCCGGAGCAAAGGAACCGGGGGGGACAAAGGGC


 ACAACCAGAGAAAAAAAACCGGAAAACCAGAGGGAAGAGGCC A GCCGGAAAACCGGGGGGAAAAGGAAAAAAGGGGAAAAGGAG A A G G G A G G G G A A A G G GAGGAACAGGGGAGACAGGAAA GAC G G $A$ A A G G A A G G GA G G C C A A A A G G A A G G T T A A A A G G G GCC G G G G A G CAGGAGGAAAAAGAAGCCAGAAAGGAGGAAGGGGGGAAAACC $G C C A C C G G G A A G A G G G G G A A G G A G A G A G C C G A A A G A G A A A G B$ $A G G G A A G G G A A A G G G A A G C A G G G A A G A C A G A G A A C C G G G G G G$ GAGCCCAAAAAGCAGGGGAACAGGGAGAGGAGGGGGAAAAGG
 C C G GAA $A \operatorname{GAC} G G G A A G A A A A G A A C A A G G G G G A C A G G A A G G G G$ T TAA A A A ACCGGAACCGAAAACGAAAGGGGAAAACAGGAGAA C C G A G G A G A A G G A A A A A T C C C C G A A G G G G G G G A A G G G G A G G A AAAACACACCGAACCGAAAACCAACGGAGGAAGGGGAGAAAA $C \subset C C A A G A A A G G C A G A T T G G G G A G A G A G G A G A G G A A G G G G G A$
 A A A ACCAAAGACGAAAAAAGGGCCAGAGCCAAGGACGAGGGG C C G G G G G GAAGGAAAAAAAAAAAAGGAAAAGGAAAGGGACGA G G A C G G G G A G G G A A A G A G A C G G A G G G G G A A A A T T G G A A A A G G AAAAAGGGGGGGGGGGAAAAAACCAAGGGGAAGGGGAAGGAG A G GAGAGGGGAAGAAAAAAGGGACATGAGAGAAAGAAAAAAG AAGGGAGAGAAGAACCCCGAGAACCAAGAGGAGGAAGGGGGG A A A A A A G G A A GAGAGAAGGAGAGACCGGCAAGCGAAGGGGGG G GAACCAAGAGGGGCAGGGGCCGAGGAAGGCCCCGAAAGAAA

 G G A A G G G A A G A A C G G G A A G A A G A A GAA $A \operatorname{AGGGGGGAAAACCGG}$ G G G A G G A A G G A A G G A A G A A A A A G G G G G G G GCCAAAAAAAAAA $A$ A GCAAAAAAAGGAAGGGGGGGGCCCAGGGAGAGGGAACAAAC A A A G G A T T G A A A G A A G G G G G A A GAGAA G C C A G A G A G C A A G G A AA $A$ A $\operatorname{A} A A A G G G G G G G G G G A G G G A C G A G G G G G G G A G G A G A C A G$ AAATAGAAGGAGAAAAAAGGGGAAGGAAAAGGAAGGAAAAGA G GAACCAAGGAACCGGAGAACAAAAAAAAACCAAGGGGAAAA $A A C C A A A A A G A A G A G G A G G G G A G G G G A G G A A G A G G G C C B G G A$ $G G C C A A G A A A A A G G G G A A G G G G C A A G A A A A C C A C A G A A A G A A$ $A G G G A A G G G G A G G G G G G A A A A A G G G A G G G G A G A A G G G A A G C G$

G GAAGGCAGAGAAAGGAAGGAAAAGGAAAGAAAAGGACAGAG GAGGAACCAAGAGGCAAGAAGGCAGGAGGGGGAGACGGGGGG C C A GAA A G GACAAAAAGGGGAAAAGGGGGAAAAAGAGAGAGA $A C A C A C G G A G A G T T G G G A G G A G C A A G A G G A G G A G G G G G G G C C$ G G G G G GCAGGGGGGGGAAAGCCAGAAGACCAAGAAGAGAAGA AAAA $A \operatorname{A} A A G G A A A A C C G G A A A A A G G G A G G G G G A A G G A A A A G G$ G GCCACAGGACAGGGGAAGGGAGGACCAGGAGACGGAAGGGG G G G G G GAA A A GAGGGGAAAAAACCAAGGGGACGBAGAAAAAG
 G G G GAAAACCCCAAGGAAGGAAGGGGGGGGAAAACCAAGGGG
 G G G G G G G GCCAACC $C$ C $\mathcal{C} C A G A A G A G A A A C A G A G G G G G G G G G G G$ A A A A G G A A G G G G G G G G G G G G A A G G A A G G A C A A G A G G C C C C G G A A G G G G A A C C C C G G G G G G A A A G A A G G G GAA A G A A A G A G A G A G
 G G G G G G GAAC G GAGAACCGGAGAAGGAACCAAGAACGGGAAA G G G G A A A G G GA G C C A G A A G G A A C C A G G G G G G G A A G A G G G G G G AA G G G GAAAAAAAAAAAAAAAAGAAGAGAAAGACAGAGGGGG $G G G A G A A C G G A A G G A C G A A A A A A A A C A G A A G A A A G G G G A G A G$ A A A A A A G G A GAACCAAAAAGGGAGAAAAAAGGAGAGAGAGAG A GAGGGGGTTAAAGAAAGGGAGAACCAAGAGGGGCAGACAGG G GAA $A \operatorname{GAA} G \operatorname{A} A A G G C A C A A A A G G G A G C A A G A G T A A A G G G G A A$ $G G A G G C A A G G A G A G G G A C G G A A A G G G A G A A G G G A A C C C A G A G$
 A G G A G A A G A A A A G A GAGGGGAAGGAAAGAAGGGAGAAA G GAT G G A A G A G G A G G A G G G G C C A G G G A G A A A GAGGGAA GACAAAC C A G G GAGGAGGAAGGGGAGCCAAGGCCAAGAGAAGAGAACAAA
 C CAGGGCAGGAGGAGAGGGGAAGGGGAAGGAAAACCGGAGAA GGGGCCCCAAGAACAAGAGGAAAGCCGGCCGGGAAAAGAACC A GAGAAGGAAAGAAAACCGGGGAAAAGGACACBAGCAAGGCC GAGAGGACCAGGGGGGGGAGAGAGAGACCCAAGAGAGGGGGG GCGGCCCCGAGGTAAAGAAAAAGGAAAAGGAAGGAAAAGAAA A A A A G G A A C C A A G G G G G G G G A A A G G G A A C C G G A A A A G G G G G G GAGGAAGGCCGAAACCAAAAAAAACCGAAGAAGGGGGGAAAG G G A G G G C A C C A A G A G G G A C A G G G A G A A A G G G G G G A A A A C A C C G GACGGCAAAGGGGGAAAAAGGCCGGGGAAAAGAAAAACACC AAAGAAGGGAGGGGAAACGGAAGGGGAGAGGGAGGACAAGAG C CAAA GAAGACCACGAACGGGAAAGGAAGGAACCAAAGAGAA GAGAAAAAAGGAAGGGACCCCCGAAAGGAGGGGGAAAAAAGB $G G A A G G G G G G A G G G A A A A A T G G G G G A C A A A A A A A G G A A A A C C$ A A A G G A A G G G G G A A T T A A A A A A G GCAAACCGGAAACCAAAAA C C G G A A G G A A A A G G G G A A G G G G G G G G G G A A A A A A A A A A A C G G G G A A A A G G G G G G G G G G A A G G G G G G A A G G C C G G A A G G G G G G A A G G G G G G G G G G A A A A G G G G G GAAAAACCGGGGCCGGAACAAAAA
 A A A A A A G G G G G G C C A A A A G G A A A A G GAAC CAA G G G G C C G G G G AGCCGACAAAGGGGCCAAGGGGAATAAACCAGAAAAGGCCGG AAAAGGCCCAGGGACACACCAAAAAAAGGGAAGAAAAAACCC C CAACCAAGGAAGGGGAAGGGGAAAAGGAGGGGAAACAAAAC CAAGCCGGAAGGCCGGAGACAAGGAAGGCCGGAAGAGAAAAG AAGGCCGGAACCAGGGAAAACCGGGGGGCCGGAAAACCAAAA
 G G G GACAACCAGGAGGAAAGGAGGAGAAAAAGGGGAAAGGCC G GAAGAGGAAAAAAGGCCCCGGCCGGAGGATTAAGACAAGCC A G G A A GAGCCAAGGGGACAATAAGAAAAACAAAAGEACAGAG GAAAAACCGGAAAAGGGGGGAAAAGGGGAAAGGBAAGGCCGG A A A A A A A A G G A G G G G G G G G A G A A A A A G G A A G G G G A G G A G A G A G G G GAAAAACAAAACCAAACAACCGCGGCCAAGGAAGAGAGG

G G GAAAGGGACCACAAAAAAGGGGAAAAAAGGGGGGGGAAGA G G A A T TAAAAAAAAGGAAAACCGGGGAAAAAACCCCGAAAAA A A A A A A C C G G G G G G G G A A G G A A C C G G G GAACCAA G G C CAA G G AAAA A $A$ A A $A G G G G G G G C C G G A A G G A A A A G G G G A A A A G G G G A A$ AACCGGGGAAAAAAAAGGAAGGAAAAAACCGGAAAAGGCCAA A A G GCCAACCGGAAGGGGAAGGAAGGCCGGAACCGGAATTGG G GCCAA $C$ G G G A A A A A A A A A A G G G GAAAA G GAAAAAAA G G C C G G G G G GAATTGGAAAAAAGGAAAACCCCGGGGCCGGAAGGTTGG G G A A G A G G G G C C A A A G A A A A G G A A G G A A A A A A A A G G A A G G A A G G G GAAACAAGGGGGAAAAAGGAGCGAAAAAAAAGAGGGGGAA AAAAGGAAAAAAAGAACAAAAAAACCGAAGAGGAGAACAAGG GAAAAGAGAGAGAGACAGGGGGGGAAAAAAGGGGAACAAAAG G GAGAAGGAGGAAAAAAAGAGGAGAGAAACAGAAGGATAAGG $G G A A A A A G G G G G G G A A A G A G A A A C C A A C A G A A G G A G A A C C G G$ G G G GAA A G A A C C G G G GAAAGGAGGGGCCAGAAAAGGAGAAGA GA $A$ A A A $\operatorname{A} A A G A A G G G G G G G G G G A A G G G G A A G A A A A G A A A A G B$ $G G C A G G G G G A G G A A A A G G A G G G G A A A A A A A G A A A A G A A A C B A$ G G A A A A T TAA T G G A G G A A G G A A A A G G G A A A G G G G G G T TA A A A $T \mathrm{~T} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C \mathrm{C} A A A A G G C C G G G G A A A A A A G G G A A A C C G G$ G G G GAGGGAAGAGGAAGGAAAAGGAACCGAAAAAAAAAACAA $C \subset A A A A G G G G A A G G G G A T G A A A A A C A G G A A C C G G G G C C G G G G$
 A A GAAA A A A G GACCGAAGAAGGAAGGGGAAAAGGGGGAAAAG G GAG $A \subset A G G A A A G G G A G G G G G G A A A G G A C C G G G G G A G G A A A G$ $G G A G C A A G C A G G A A G A G A G G G G C C C C G A A A A C A A A A G G G A G G$ GACCGGGACCGGACCCGGGGGGGAGGAGACCCCCAGGGACAG A GAGAAACAAAAAGGAGGAGAAGGAGAACAAAGGAGGAGGAG GAGAGATTGGGGCGAAAAGGAAGGAAAAGGGGCAGAAGAAGG A A GAGGCAGAAGGGGGAAGGAGGGAGGAGGTAAAGGAAGAAA G G G G G G GAAACCAAAAGAGGGGGGCCGGAAGGAAAAAAGGGG G GAGGAAGGAAAAACCAGGGGGGAAAAAGGAAGGAAAA G GAAA A G GAGGACAAGGAGAACAAAAGGGGGAAAGGAAGGGAGAACAA A GAGAGACGGAAAGAAGGGGAAGGGGGGGGAAAAAAAACCAG A A A A G GCCGGACGGGGAAGAGGTTAGGGGGGGAAGGCCAGAG GAAAGGACGGAAAACCCCGGAACCGGGGAAGAGGGGCAAGAA AAAGACAGGACCAGAGGGAAGGAAACGAAAGAAAGAAAAAGG A A A A C A G GAA $A \operatorname{AGGGCAAAGGGGGGGGAAAAAAAGCCGGAACC}$ AAAAGGCAGAAAGAAGCCGGACAAAAGGCCAAAACAAAAGAC A GAGAGGACCGGAAGGAAGGAAGGAAAACCAAGGACAAGGGA G G G G A C A G G G A G G G G G G G A G A A A A A A C C A A G G G GA GA G GAA $\mathcal{A}$ ACGAAGAACAGGGGAAGGCAAAGGAAAGGGCAAAAAAAGGAA ACAGGGAAAGGAGACCGGAAGGGAAACACGGAGAGGGAAAAA AAAGAGGAGGGGGAAAAAAAAAGGAAAAAAAGAAGACAGAAA AA G GAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAGAAAAGG C C G G A A GAAC GAGGAAGAAGAAAGAGAGAATTGGGGCAAAAA AACCAAGGAAGGAAAATAAAAAAACCGAAGAGGAAGAAAAAA GACCAAGGAAAGGGGGGGGGGGAACCGGCCGGAAAAAACAAA AACCAACCAAAAAAGGGGCCCCAAGGAAGGAACCGGA
A G GAA A G G GCCAAAAAAAAGGGGAAGGGGGGAAAAGGAAAA G G A A G G G G G G A A G G G GCC G GCCGGAAGGAAAAGGAAAAAAGG $C \subset C \subset A A A A G G G G G G G G A A C C G G A A C C G G G G A A G G A A G A A A G G$ AAAAGGAAAACCGGAAAAGGGGCCAAAAGGAAGGAAAACCCC A A A A A A G G A A G G G G G G G G A A G G G G G G C C A G A G A G A A A A G G A A ACAGCGCCGGGGAAAAAAGGGGCCGGGAGGGGAGCAGAAAGA AAAGGGAAGGCAAAGAAAGGCCAGGACCGGGGAAGGAACACC AACCAAGGCAAAGAAAAAGGGGGGGGAGAGGGAACAGACAAC ACGAAAAGGCGGCCGGGGCCAGAACCAAGAACGAGGGAGGAG G A G G A A A A A A G G A A A G G A A A GA G GAAA G C GAA GA G G G G A A T A TAGGAAAGGAAATTCATACAGAAGCAGAAGGGAGCAGAAAGG

A A ACAGAGAGGACAAGAACGAAAAGGAGCCATAACCAAAACC A A G G A $\mathcal{A} G A G G G G G G G G G G G G G G A A C A A G A G G A G A A G A A A G B A$ G G G G G GCCGGAAAC GAAGGGGAGAAGAGAGAAAGAGAGAAAA GAGGCCGGGAGAAAAAAAAAAGGAAACCGGCCCAAAGAAAAA $C C G C C C G G A G A A G G A A A G A A C C G G A G G A C C A A A A G A G A A G G A$ G GAAAGAAAAGGAAGGCCGGCAGGGGAAAGAGAGGGGGAAGA A A A G G A G G GA G GAGGGAAAGAGGGAGAAGGGAGAAGAACAAA G G T TGGGAAAGAAGAACAAAAAAAGGGGGAGAGAGGAGAAGG GAAGGAAAAGGGCAAGAAAAACGACAGAGGAAAAGGGGAGAG GAGGGGGGAAAGAAGGGATTAGCAGACGGGAAGAAACAGAGA A A G GAGCCGGGAAAGGAACCAAGGGGAAGGCCGGCCAAGAAA G G G G A A A $\mathcal{A} G G G A A A C A A G G G G G G G G G A A G A A A A A G G A A A G B A$ G G G G G A A G G G G G G A G G G A G A A C A G G G G G G G G G A G A G G G A G G A A G G G A A A A GAAAACAGACGAAAGGCCGGAAAAGGGGGGAAAAA G $G A G G G A G G A G G G G G G G G G G A A G G G G G A G G C C G A A G G G A A A G$ A G G G G G G A A G G GAGGGAAAAGGGGAGAGGACAAA GACAAAGA G G A A A A T TAAAACCGGAAGGAAGGAGGGCCGAAGBAAAAAAA G G G GAACCAGGGAAAAAAGACAAAAAGGAACAAAGCGGAGAA C C G GCCGGGGAAAAGGGGGGAAGGGAGGGAGGCCCCAAAACC C C G G G G G G G G G G G A G G A A A GAA A A A A A A G GAAAAAC G G C C A C A GGACCAGGGACACCGGGGGTAAACGAGGGAAGGAGGGAAAA
 GAGGCCGGGGAAGGCCGGAAAGGGACGGCAAAACGAGGAAAA C C G GCCAACCAAACAGAATAAAGGACAAGAGAGAGGAGGGGG G GAGGGAGAAAAAAAAAAAGGGGGGGAGGGGGGGAAAAGGTT GAAGAGGAAAAGAGAGGGAGGAAAGGAAAAGGGGAAAAAACC G GAGGAAAAAGAGGCCGGCAAAGAAAAAGGAAGGAAAAAAAA AAAGGAAGGGCCGAGGGGGGAGCAAGACAGACAGGAAGGGAA A A G A G G G G G G G G A A G G T A G A A G G A A A A GAGGGAA GAAATTAA CAGAAAGGAAAAGGCCAACAAAAAAGAACCGGGGGGAACCAG C C C C A A A A G G G G G G A GAA G GAAAAGAGGAGAAAAAAAAAAAA A GAGGAAGAGGGCCAAAAGGAAAAAGGGGGGGAAAAAACAAA A A C G G G G A A G GC G G A A G G G G C C G GAGAGGGAAAA A A GA G GA T GAGGGGAGAAGGAAGGACGAGGCCCCGGAGAAAAAAAAGGGG GACCGGAAAGGGCCGAAGAACCAGGGGGGGAAGGACAGGGGG G GAAAA A $A$ A $A \operatorname{AAACCGGGGCCAAAGGGGGAGAAGGCAGAGAAC}$
 AAAAGGAAGGAACCGACCGGAAAAAGAAGGGGAAAAAAAAAA C C A G G A A A G A A A A G G G A G A A GAGAAGCAGGAAAAAAGGAAAA C C A A G A A G G G A A A A A G A G G GAA $A$ A A A G G G G G G G G G A G C C G G A $G$ A G G G G G A A A G G G A G A G G G G G G G G C G G G GAGGGACA G C CAA A A
 $C \subset A G G A G A G G A A G A G G C C G G A A A A C C A A G G C C G G A A G G A A G G$ G G A A A A A A A A A A G GAACCAAAAAAGGAACCGGGGCCGGACAA A A G G G G G G G A G A A A G G A A G GA $A$ A A A $\mathcal{A} G G G G G G G C C G G A A C A A A$ A A A A A A G G G G A A A G G GCCAAAAGAAGGGGAGAGGAAAAAAAA A G G GAA $A \operatorname{GGA} G A A A C A G G C C A A A A A A G G A A G G A A A A A A C A A C$ C C G A A G G G G GAGAAACAGAAGGCAGGGGGAACCCGGGGAGGA A A G G G G G G G G G GAAAAAAAGGC GAA $A \operatorname{A} A A A G G A C A A G G G G G G G G$
 $G G A A G G A A G A G G A C G G A A A A G A G G A C A C A G A C C A G G A A A A G G$ A GAGCAAAGGGAAGGGGGGGGAGAGAACAGAAAAAAAGGGGA A A A G A A A A GAAAGGAAAAGAAGCCAAGGGGGGGGGACAAA G G G GAGAAAAAAAGAGTAAAGAGGAAATAAAAAACCGGCCAAGA A GAGTTCCGGGGAAGAAAGGAGGACCAGAGAAAGGGAACCTT GAGAGAGGAAGAGAGGTAGGAACCAAGGAAAACCAAGGAAGAG G G G G A A G G A A G G G G A A G G C C G G G G G G G G G G G G A A G G G G A A G G $G G A A A A A A G G A A G G A A G G G G A A G G C C G G G G A A A A G G G G G G G G$ G G G G GA A A A A G GAGAGAAGGAAGGAAGGGGAGAGGGCCAACAC

G GAAAACCAAGGGGAAGGGGGGGGAAAAAAAAGAGGGAAAGG A G GA A G G G G GCCAAAGCCGGGAGGGGCAGGAGAAAAAAAAAA C CAGCCAAAAAAAAAAGAAGGAAGGGGGGGAAAAAAGGGGGG G GAAAA A A GAGGGGACAGGGCCAAGGACAACCAAAACCCCBG GAAGGAGGAGGGGGAAGGAAAGAAGGCCGGAGAGGGGGAGAG A A G G A T A G G G A A G A A GAGCAGACCCAAAGGGGAAAACCAGGG G GAGGAAAAACCGGAAGGAGGAAGAGGGGGAGGAGGAGAAAA A GAAGAGGGGAAAACCGGAGAACCAAAAGGAGGCAGAGAAAA G GAAGGCCAAAAGAAAAAAAAGGGGGCCAAGAAAGAGACAAA G GAACAGAAGGGAGAGAGAGGGAACCCCAGGGAAGGAAGGGG G G G G G G G GCCAGGGAAGGAAAAAAGGAAAGGGCACCCCAGAA A A A A A A A A A A G GAAAA A G G G GAGGGGGAGAGAGAGGAGAGAA ACGAGGAAAAGAGGCCGAAGGGAAGAGAAAGGCCCCTXAAGG $A A C C G A G G A A G G C A G A A G G A A A A A G G G G A A A A G A G A G G G G G G$ GGCCGAGAAGAGAGGGAAAAGGAAAAGGGGAAAAGGAATTCC AAAGAGAACAACCCAGCCAGCGGGGAACAGAAGAGAAGAGCA C GAAA A G G GACCCCGGAACAGGAAAAAAAAGGAGGGGAGGAG G G G G A G A A A G G A A G G G G G A A A A G G A GA GAA A GA G C C A G G G A G A GAGACAAAGGAGGAAAAGAGGGGAAGGAGGCATACGAAAAG A A A G A A G G C C C C A A G G G G G G G G G G C CAACCAA G G G G G G A G G A G GAAGGCAGGGGAAGAAAGAGAGAAGGGCCCAGGGGGGAAAA T T GAAAAAGAAAAGAAAAGGCAGAGGAGCCAAAAGGAACCBG G G G G A A G GCCAAGGAGAAAGGACCGGACGGAAGGCCAAACGG G G G G A A G G C C A A G G G A G G G G G G G A C C G G G G G G A A G G G G C A A A

 G G G GATCAGGAACCGGAAGGCCGGGGCCGGGGGGGGAAGGGG AAAAGGAAGGAAAAGGCCAAAAGGAAAAGGCCAAGGAACCAA A A G G A GAGAGCAGGAGGAAGACAGCAGGGAGGGGAGAAAAAG CAGGAAAAAAAACCAAGGAGGGAGCCAAAGAGAGGAGGGGGG A A A A A A A G G G GAG G G G A A A GAGAGAGA GAAGGAAGGAAGAAA A G G GAAAGGGAAAGAGGGAAAAAGCGGACAGAAGGAAGAAGAA G GCAC GAGAATTCCAAGAGGAGAAAAAGAGGGAGGAGAGGAG G G G A A A G G G G C C A A A A A A G G G G A A A G GAC CAAA A A A A G G G G G AAAGAAGGAGAGGGAACAAAAAAAGAAAGGAAAA GGGGGGAA GAAAAGACGAGAGGAATTACAGGCAAAAAAAGGGAACAGGBA AAGACCGAAAGGAGAGGAGAGAGAAACCAAGGAAGGAAGGGA G G G GAA A GAAGGGGGGGAGAGAAAAGGGAAAGGGGAGAAAAA A G G G G GA $\operatorname{G} G A A A A A A G G C C G A G G A G G G A A A A A G A A G A G A A G A C$ $A G G G A A G G A A A G G A G A G G A A G G A G A G A A G G A G C G A A G G G G G G$ A G GAGGGGAAGAGGGGCCAGACAAAGGAGGCCGGGCAAGGGG
 G G G G G GACGGAGGAAAGGAAGGGGCCCCGGGGAGGGGAGGGA GAGAGGCAGACCGGAAAACCGGGGCCGGGGCAGGAGAAAAAG AAGGGGGAAAGGAAAAAAAAAAAAAAAACCGAAGAGGAACBG GACGAAAAGGGGGGAAAAAGACAACAGGGGCAAAAAGGGGGA G GAG G A C C A A G A G G G G G G G G G G C C G A CA G A A G G A A G A C G A A A A A C A G G G GAAGGGGCCAGAGAAGGGGGGAGGGAGGGA
G G GAA A GA $A \operatorname{GG} \operatorname{A} A A A C G G G G A A A G G G A G A A A G A A G G A A G G G G$ G G G G G A G G GA $A \operatorname{GAA} A G \operatorname{A} A A A A T A G A G G G G A G A A G A A A A A A G A G$ A G A A A A G G A C G A C C A A GAGGGGGGAAGGAAGGGGAGAAAAAG A A GACCGGGGGAAGAAAAGGGGGGAGGGGACCGGCACAAAAA A A A A G A A G G A G G G A C C A G A A A A G A G G C A A A A A G A G A A G C A A G AAGGGAAAGGAAGGGGAAACAAAAGGACGAAAGGGAAGAGAG CACCGAGAAACAAGAGAGAGGAGATAAGGAGGGGGGGGTAGA G G A A A A G GCCAAAAGGAAGGGGAAAAGGAAAAACAGAAGAAG A G GAAACCAAAAAAGAGAGAGGGAGGGGGGAGAGAGGGAABA GAGGCAAAAAAAGGAAAAACCCGGGGGGGAGAGAACAAAGAC AAAAAGGGAAAAAGAGCAGGCAAGAAAGAGGGAAAAGGGGCC

A A G G A A A A A ATTAAAAGGAAGGTTAAGGGGCCGGGGGGGGGG A A A A G GAA A G A A G G G G G GAAAAAAAGGAAAAGGGGAACAGGGG $G G A A G G A A A A G G A A A A G G G G G G A A G G G G A A A A G G A A A A C A A A$ $C \subset G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G G$ G GAA $A \operatorname{GA} A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T X C C G G$
 C C G G A A A A G GAAAAAAGGAAGGGGAATTGGGGAAGGGGAAAA AAAAGGGGAAGGCCGGAAAAAAAAAAGGGGAAAAAAAAAAGG AAAAGGAAAAGGAAAAGGAAGGAAAACCGGGGAAAACC G GAAA G GAAGCGGGAAAGAGAAAAGAGAGGGGAAAAAGGCCAGAGAA A G G GAAAGAGGAGGAAAGCCCCGAATGGAAAGAAAGGGAAAA GAAACAGGAACCGGGGAAGGAAAAGGCCAAGGAAAAAACCAC A A A A A A $\mathcal{A} G G G G G G G A A G G G G A A G G G A G A G G A A A A G A A G G G A A$ A G A G A A C C G G G G G G G G G G G G G A A A A GAAAAAA A A A G C CAAA A G GAAGGGGAAAGAAAAGGAGAAAAGGGGACAGAAGGAGAAAA AAGGAAAGCAAAAGGGGGCCAAGGGGCCAGGGGACCGGGCAA A G G G G G G G G GAAAAGGAAAGCCAGCCAAGGAAAAGGAGGGAA G G G G G A A G A G A GA G GAGAAGAAGGGGAACCAAGGGGAAGGAA GGCCAAGGGGAAGGAAAAAAAAGGAAGGAAGGGGGAAAAAAA A A A A G G A A A A A A T T C C G G G G G G A A G G G G G G A A A A A A A A A A A A AAAAGGAACCAACCAAGGAAAAGGAAGGGGAAGGGGAAGGGG C C G G G G G G G G A A A A C C G G G G G GCCCC CAAGGGGAAAAAAAA G G A A A A A A A A G GCC G G G G A A A A G GAAAAGGAAAAAACCGGAGAA C C A A A A A A G G A A A A A G GGCCGGAGAAGAGGGAAAA GAAA A A A G GAGA GAGGGGAAAGAAAGGGGACAGGAAGCGAGGGAAAAAC G G G G GAAAAAAGGGGGAAGGGGGGGAAGAGGGGGAGAAAAAA TTCCAAAAAACAAAAGAGAAAGCCGACAGGAGGGGGGACAGA
 AAAACCGAAAAAAGGAGGGAACCCGACCGAGGAGGAGAGGCA $G G A G A A G G G G G G G G G A A G A A G A G G A G A A A A C C G G C A A A G G A A$ G G G GAACCGGAAGAAGAAGAAGAGAAGAGAACAAAAAAACAA AAAAGAGGAGAAAAAAAGACGGGGAAGAGGAGACAACACCAA GAAGAGCAAACCAACCAAGGAACCGGCCGGAGCAGGAGAGGG GAGGGGCCAAAAGGCAGAAGCAAGGGAGGGGGGGAAGAAGAG
 A A A A A A G G A A G G G G A G G A A A G G G GAAACC GAAA G G G GA G G G A G AAAGAGCCCAAAGGAAAAGGGGAAGGAAAGGAGAAGAGAACC GAAAAAAAAAGAATAGAGAACCCCGGAGAAAAAAAAAAGGAA AAAAGGGGGGAGCGAGCCAGAAGAAGAAGACCGCGGGGAAAG A G A A A G A A A A A A G G G G G G A A A A G G G G GA GAAATTAAA GAACA GAGGGGAGAGGGAAAAGGGGGGGGGGACAAGGACAAAAAAAA GAGGGGACGGAGACAGGACAGAGAGGAAGAAAATAAACXCGA AACCAAAAGGAGGAGAGAATCCCCGAAGGAGGAAAATTGGAG A G A A A GAAAAA AAAGGAACCGAGGGGGGGGAAAA GAAA GACAA G G GAAA A G G GAA $A \operatorname{A} G \mathrm{G} G A A G G C C G G G G A A C C A A G G G G A A C C C C$
 CAA $A \subset A G G G A A G G A G A C C A A A G G A G G C C A G A A G G A G A G G G G G$ AAAAGGGAAGGACCAAAACCAGGGAACCGGAAAAACCAACGG AACCGGGAAAAAGGAAAAACGGGGAGGACCGAAAAAAAAAAG GAAGGGAAAAGGGGCCAGGGAAGAGAGGAGAAGCAAGAGGCC GAGGGGGGTTGGGGAAGGGGAAAGAGAGAGAAGGAAGGAGAA G G G GCCAAAAAAAAGGGGGGGGGAGGAAGAGGAACACACAAA
 GAGGCCAAAGGAACAAGGAAAAAAGGAGAGGAGGAACCGGGG AAAAAAGGGGCCAAAAGGGACAAGAGGAGAAGGGAGAAAAAG A G GAAAGGGGGACAAAAAGGAAAAGGCCAAAAGGAGAGACAA CAAAGAAAAGGACCACAAAACAGAGGGGGGTAAGGACCGGGG GAAACCGGGAGGAAAGAGGGAAAAGGGGAAAGGGGAAAAAAG $A G A G G A G A A G A G G G T T G A G A C C G G A A A G G G G G A A G A G G A A A A$

GAAGGGGAAGACGACCGGAAGGAGGGCCAAAAGGAAGATTGG A GAAA $A \operatorname{AGGAACCAAAAAAGAAGGGCACAAGCXAAGGGGGGCA}$
 A A A G G GAAGACAATCAGAAGAGGAGGAGGGGGAAAGGGAAGG CACCGGGGGAACACAAAAGAAAAAAAGGAAAGAGGAGAGGAG A A A A G G A A A G G A A A A G G A A A A GAGACAAAACAAAA GC GAAAA A A GAGGGGCAGAGGAGAGGAAAAGAAGGGGGGAAGGGAAAAA $G G C C A A A A G A G G G G A A G A A A G G G G A A G G G G A A G G G A G A G G G G$ G G G A A G A G G A G G G G G A A C A G A A G A GAG G C C G G A A G G G G G G A A C C T TA GAA $A \operatorname{GA} A \mathrm{~A} A A A A T G A G G A G C A G G A G A A G G A C G G G G A G$ A GACCGGGAAAGCAAAACAGAAGAGAAAACGGGGGGACGGGG GAGAGAACAAGGCGCAGGCCGACCGGCCGGAGGAAGAAAAAG $G G A C A A A A A G G G A A A A G G A A A A A A A A G G G G C A A A A G G A A A G G$ G G G G G GAA G GAAC CAGAAGAGGAGGGCCAGAAGGGAAGAA G G TAGGAAAAGGAAAGGAGGGGGAGAAGCCACGGAAGGBACACC AACACCAGGAAGGGGGGAGAGGGGACAAGGAAAAAACGAAGA GACCAAAAAAGAAAAAACACAGAGACGGAAAAAAAAGGBGAA $C \subset C C G G G G G G G G G G G G A A G G G G A A G A A A A A A A G G A A A C A G A G$ G G GAGGGGGGAAGAAGGAAAAGAAAGAGAGGAACAAGAAAAG G GAGGGAGAAAGAAGAAAGGGGGAAAGAGAACCAAGACAAGG A GAGCAGGGAGGAAGGAAAAAAGGAACCGGAAGGGGGACCGG G GAAAAGGAAAACCAGACAGGAAAAAAAAGGGAAGGCCAA GA A A A A C C A G A A A G G G G G A G G G G G A A A A A A A G GA G G G G G G C C A A
 A G G A A A A C C C A A C C G GAA G GAAGGACGAAATACAGAAAAAAA AACCGGAGGAAAAACGAAAAAACCGGACAAAAGGGAAGAGGG AAAAGGAGAAAACCCCAGCCAAGGAAGGAAGGGGAAGCAGGG AGGACCAAAAGGAGGAGGCAAAAAGGAACCCCGGAGGGAAAA
 A A G G G G G G G G G G G G A A G G C A A A A G GAGGGAGAA A A G G G G G A A G GAAGGACACGGACGGCCGGGGGGGGAAAGAGGAAAAAAGAG ACGGGGAAGGAACCGGAAAGAACCACGGGGAAGGCCCCAACA GAAAGGCAAAGAACGGAAAAGGGGGGGAGGAGGA $\operatorname{A} A A A A A G G A A$ $G G A G G G G G G G G G A A A A G A A A C C G G G G G G G G A A G G A G A A A A G G$ G G A A G G A G A G G A G A GAGGAGAAGGAGGGGGGAGGGAGAAAAA AAGGAAGAAAAAGGCCGGAAGGAAAAGAGGAAGGGAAAAAAG G GAGAGGGAGAGAAGGAGGGAGAGAAGGGAGAAAAAAGAGAA G G G G G G G G G GAACAGAAAACAGGGAAGGAACCAAAAAACCGG G G G C A G A G A A G G G G G G G G A G G G C A A G A A C C G G G A G G A G A G G G
 G G G GAAGAAACCCCACAGCCCAACGAAGAACAGGAAAGAAAG A G G G G G G G A A G G A A A A A A G G C A G G A A A G T T G A G G G A A G G G A G A GAGAGAAGGAAGGCCAAAAAGGACAGGGGGGAAGGACAAAG A GAG $\mathrm{A} A \mathrm{~A}$ GCCGGGGGAGGAAGGACGGGGCCCAGAAGAAAGAA CAAAGACCCCCCCAAAAACAACAGAAAAAAAAAAGGGGGGGA TAA A G GCCAGGGAACCGGGGAGAAGGGGGGAGGGGGCCGGGG C C A A A A G G A A C C C C G G A A A GAAA G GAGCAACCCAGAAAGAGG A A G G G GAAGGGAGGCCGGAAAAGGGGAAAAAACCAGG
$G C C G G C C G G A A G G A G G G A A A A G G C C G A C C A A A G G G A A A A G G$ GAAAAGCCGGAAGAAAGGGGGGAACAAAGGAGAAAACAGGGG G GAA A GAA A G G G CAG G G G A A A G G G GAGGAGGAGGCCAAAAAA G GAGGGAAAAGGAAGGAAAGGAGAGGAAGGGGGAAGAAAAAA G GAGGGGGGGAGAACAGGGGAAAACCAAAGCAAGAGCAGACC $C \subset G G G A A C G G G G A T G G G G G G A A A A A A A G G A G G G G C C A G C A A A$ A G G GAAAGAAGGAAAGGGAAAGAGAGAAAAGAGGCCAACAAA $A G A A A A G A G G A G G G G G G G G G G G G G G G G G G G A A G G G G G G A G A A$
 G GAAAAAAAAAGAAGAAGGGGGCCGGAGCCAGCAGGGGAAAG $A \subset A G A G G A C A A A G A G A A A G A G G G G A A A A C C C C A G G G A G A G G G$

G GAAGGAAAACCGGGGGGGGAACCCCGAGGGGAGGGGGCAGG G GCAA C G G A GAGGAGGCCAAAAAGAGACGAAGGAGAGAGGAA A G G A A GA $\operatorname{A} G A G G A G G A A A G G G A A A G G A A C C G G G G A A G G A G A A$ A GCCAAAAAGGGGGAAGGGGAAGAAACAGGAAAAGAGAAGAA GACCGGAGGGAAGAAAAGCAAAAACCAAGGAAAGCAAGAGAG A GAAAAAAAAAAGGAACCAGAAGGAAGGCCGGGACCAAAGAC A GAA $A \operatorname{GACA} A A A A A A G G G G G A A G G G G G A A G A G G G G G A A A C C A A$ GAAGAGGGAAGGGGCAGGGGCAGGACAAGGAAAAGGCCAGAG C CAA $A$ A A A $\mathcal{A} G G G G A C A A A G A G C A G G A G A G A A G A A A A G G G G G G$ $C C G G G G G G A A C C A A A A G G G G A A G G G G A A A A A A G G G G G G A A C C$
 G G G GAGAGAAAAGGGGGGAAGGAAAAAAAAAAGAGGGA GAAA CAGGAAAAGGGGAAGGGGAGGATTGGGAAGGGAAAAAAACBG G GAAGATTGACAAAATAGAAAGGAAACCGAAAAAAAAAAAGG AAGGGGAAGGCCGGGGGGAAGGGGGGACGAAAAACCAACAAA AA G GAA A GAAAAGGAGAAAACCCAAGGGAGAAAACCCAGAAA C C A A A A A GAA A G G G G GCCAACCGGGGAAGGGGGAAA GAAAAA AAAGGAAAAAGGGGAAAGAAGGGGCGACAACGAAAACCAAAG A GAAAAAGAAGGAAGGGACCGGCAGGACGAAAAAAAGGAAAG
 AACACCAAGGGGGGGGAGTTGAGGGGAATTGGCCAAAAGGGA
 GAGGGGAGAGAAGAGGAACCGGAAGGAGGACGATACGAGGGG A A A A G A A A A A A G A A A G G GAACCAAGGGGAAGGAGCCABAACA
 A GACAAAAGGGGCCGGAAAGGAAGAAGGGAACGAAAGGAAGG GACCAGAGAGGAGGGAGGCCAAGAAAAGGGAAAAAAGGGGGA $G G C C C A A G G G A A A A G G G G G G A A A G G A A G C C G G A G G G C A A G A G$ G G G G G G C A G G G A G G A A A G G A A A G G G G G A G A G G G G G G G G A A G G G G G G G A A GAGGGGAAAGGACAAGGGAAGAAGGGACCGAAA G G AAAGAAAACCCCAAAGGGAGAGGGAAGAGAGGAAAGAGAGGA A GAGGACCGGAAGGGGGGGGAAGGGGGAAGAAGGAGAAAAGG G G G GCCGGAAAAGGAAGGCCAAGGGAAAAGAAGGGAGAACAA G GAA A GAA $A \operatorname{GAC} G A G G A A A C A A A C G G G G A A A A G G A A A A G C C A$ $A C C A C C G G A G A G G A G A A A A A A A G G G G A A A C A A G A G A A G A G A A$ A G G G A A A A A A G G A A A A A GCCGGAACAAGAGACAAGAAC G GAA G G G G G G A A G G G G GACC $\mathcal{A} A A A G G G G A G A A A A C C G A A G A G A A G G$ G GAAAGGAGGAACCGGAAAAGGCCGGAGCAGAAAGAAGAGAG G GA A A G G G A A G G A A G G G G A A G G A A A A A A G G G G G G A A G G G G G G AAGGGGCCAACCGGAAAAAAAAGGTTGGAAAAAAGGGAAAAA C C C C A A A A GGCCAAGGAAGGAAAAGGCAAGACAAACAAAAAG A G G G G A G G G G G A G A G G C C G G A G A G G A A A G GAAA A G A A A A G G A A
 $A A G G A G A G G G G A T T A C G A G G G G A G A G G G G A G G G G G G G A A A A A$ AA $A G G G A G A G G G A A G A A A A G A G A A A A A G A A A C G G A G G A C C A C$ A GAA $A \operatorname{GAAAAACCGAGGAAGGAAAAGAAACGGGACAGAAAAGG}$ $A C C A A C A A G G A A C A A G A A A G A C G G G G G G A G C C A A A G A G A G A A$ AAAAAAGGCCGGGGAGGAAGACAACCAGGGCCAAAGAGAGAA
 G A C A A A G G G A A C A G A G G G G A G G G G G G G G A A G G A A G G G G A A G G C CAAA A A G GAAGAGGGAAGGCCAGAAGGGAGAAGGAGAAGAA A A G GAA A G A GAAGAAACCGGGAACGGAAAGAAAGGGGGGGGG C C G G A A G G A A G G A A A A T T G G G G G A A A A A A A A A G G A A G G G G G G AACCGGAAGGGGAAGGGGGGAAAAGGGGCCGGGGCCGGAACC C C A A A A G G G GAA $A \operatorname{AGGGGGAAGGGGGGGGAAAAGGGGAAGAAA}$ G G G G G G G G G GAACCTTCCGGGGAAGGCCGGCCAAGGGGAAAA

 $A A C C A A A C A G G G A A C C G G A G G G G G A G C C A A A A G G A G A G A G G G$

G GAGCCGAGGGGAAGGGAGGACAAAAGGAAGGAAGAGAGAGA GAAAAGCCGGGGGGACAAGAGACAAAGGAATTAAAACAGGAA GA $A \operatorname{GAA} A G G G A G G G A G A G G G G A A A A A C C G G G G A A A A A A G G A G$ A A G G G G GA GAA A GAAAGGCCGGTTAAGGGGAAAACAGGAAAA GAGGGGAAGGAAGAAGAAGGAAAGAAGAAACCGACAGGGGAA A G G GCCGGCCCAGGAAAAAGCCAAAAGGGGAAAAGGAGGGAG GACAAAGGCCGGGGAAGGGAAGAAGGGAGAGAGAAAAGACGG G G G G G G GAGAAGAAGGAAAAACAGAGAGGGAGAGCCAAGACC
 GAAGTAAAGGGGAGGGACGGAAAGAGAAAGAAGGGAGAAAAA GAGAGGCCGGAAAAGACCAAGGAACCACAAAGCCAGAGAAGG A A A A G G G G A A A A A C G G G GAA A A GAGGAAAAAAGGAAA GA GAA G G G G G G G A G G A A A A A GAGAAAAAGGGAACACAAACAAGACAA C C A A G G G A A A A GAA A G G GGGAAAAGAAAAAGGCCCCGGAAAA GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGGAAAAGG G GAAAAGGCCAAAAAGAGGCTTGGAAAAAAAAGAGGGGGGGG G G G A G A G G G G G G A T A A $\mathcal{A} G G G G G G G A A A C G A G G A G B A G A A A G G$ A A A A A A G G G G A A G GAAAA $A \operatorname{AGGGTTAAAAAAGGAAAGGGGAGG}$ GAATACAACCAAGGGGAGGGGGGAGGTAGGGACAAAAAGAGG AACAAGGGAACACAAAGGGGGACCAAAAAAAAAAAAGAAAAG GAGAACAAAAAAAACAAAGGAAGAAACCGAGGGGAAGGAAAA C CAACCAGCCGAAAAAAAGGGGGAAAGGAAGGGGAAGGCACC A A G A C A A G G G A A G A G G A G A C G G C C G G G G G G G A G A C A A G G G G G A A A A A A G G GAGGCCAAGGAAAAAAAAAAGGAAGGGGCCGGAG A A A A A A A A G G A A G G G G A A CAAAAAGAAAGGAGAGGAGGAAAA GAGGGAAGAAGGAAGGGACAAAAAGAGGAAGGAACCCAGAAA G GAAGGAGGAAGAGAGAGCAGAAAGGAAAGAAGGAGAA GAAA
 G GAGACAGGGCACCGGGAGAGGCCACAACCAAGAAGAGAGAG GACGAAGGAAGGGGGGGAAACCGAAAAAAACCGGAAGGGGCC
 GAGGAGACGGGAAGAGGAGGAGAAGGAGCCAGAGACAAAGGG A GAGAAAAGGGGACGGGGGGAAAAGAGGGAGAGGAAGAAAGG A A A A A A G G G G A A A A G G A GCCAAAACCGGGGAAAGAAA GAGCC AACCGGAAAGGCGGTTAGAAAAGGGGCAAGAGAGBAACCCGG A A G G A A A G A A A G C C G G A A G A G G G G G G G G G G G G G G G G C C G G G A AGGAAGAACAAGCCAAGGAAAAGGCCAAAAAAAAGGGGCCAA AACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAAA A A GA $\operatorname{A} G \mathrm{G}$ A A G A A G A A A A A G G G G A GCCAGCAGGGGAGCACAAA A A A A A G G G G G A A A A G G A A G C A A G G A G G GAGGAAA GAA GA G G G AAAGGAGAGGAAGGGGAAAGAGAGAAAAGAGAGGAAGGAACC A A A G G A A A G G G A G G A A G G A A A GAC GACCCAAACCAAGGGGGG $C C G A A A A G A G G G A G C A A A A A A G C C G G G A A G G G A G A G A A A A C A$ C CAA $\operatorname{CA} A \mathrm{G} G C \subset A G C A G G A G A A A A A C A A C A G G A A C A A G G G G G G G$ A A G G A A T T G G G G A A A A A A C C G G G G G GAACCGGAGGGACAAAA C C A A A A G G A G A A A A A A A GAGGGAACCGGAACCGACAAAAAG G G G A A A A A G A G A A G G GAAAAAAACCAAGGAACCGAAACCAGAC GGAACCGGGAAGAGAAGGAAGGAAAAAGGGAAGGAGC
AAAGGAAAAAAGAAGGAGGAGAACGGGAAAGGGGGGAAGAG A G GAGAGGCCCCAAAACAAAAGGGAGGGAAAGAGTTAAAAAA
 AAAAAAACGAGGAGAGAAAGAAGGAAAAAACCAAAAGAGGGG A A C C G G A G A A G G A A A A A A G G A A A C G G A A A A A A G G A A G G A A G A AAAGGAAGCAGGGAAAGGAAGGGGAAAAGAGAAAGGAAGGGA CAGGGGGGGAACAAAAAGAAAAGGGAAGAGGGAGACAAAAAG AA G G A A A A A A C CAC GAAAAAAGGGAAAAAGAAAACCCCAGAA
 A A G G G G G G A A A A G G A A A A C A GAGACAA G GAAGGGAAAAAAAA GGACGGAAAGGAGAGGGGGGGGAGAAGGAAGCAAGAAAAAGA

AGGAAAAAGGAAGGCAAAACAGACGGCCAACCAAGGGAGAGA $A G C C A A A G G A G A A G G A A A G G G G G G A G C C G A T A G A G G G A A A A G$ $A G A C A A A G A A A A G A G G A C G A C C G G A G A G G A A A G G A A G G G G G G$ A G G G G GAAAAAAAGGGAGGAGGGGAAAAAGGGGAGAAAGGAG GACACCAATTAACCGGTTAAAGGGAGACGAGACAGGAAGGGG
 G GCCCAGAGACCGGGGGGAAGGAGCCGAAAGGGGCCGAAAAG $G G G G A A G G A A G G A A G G G G A G C C G G A A G G A A G G C C A A A A A A G G$ GGCCCCAAGGAAAAGGGGAACCAAGGAAAAGGGGGGAAAAAA A A G G GAGAAGGGAGGAGGGGAGGAAAAGAGAAAAAAGGGGGG C C G G G G G G A GAGGGAAAAGGAAAAGGAGGGAAA GAGAAAAA G G G A A G GAGGGAGCAGGCCGGAGGGACCCAGGGGGAAGAGACA A G G GACAGGAGGAGGACCGAACAGGGAAAAAAAAGGCAAAAG A GAGCAAA G GAAGGGGCATTAGAGGAAGCACCGAGAGGBGAA GAGGGACCAAAAAAGGCCGGAAGGAAGAAAAAGGCAAGGACC AAACCAGAGGGAGGAAAAAAAAGGAAAAAGGGAATTCGAGAA A A G G A GAAA A A A GAGAAGGGAGGAGGGGGAGAAAGGGAAAAA C CAGAGGAGAAGAGAACCAGAAGAAAAACAGAACGAGAAAGG

 A A A GAACCAAAAAGAAGGCCCCGAGAGAGGAAGGGGGGBAAA A G GAAAAAAAAAAGCAGGACGAGAAAAAAGGGAAAAGAAGAA A G GAAAAGACGGAGGGGGAAGAAAAAAAAACCGGAAGGGGGG

 AAAGAAAAGGGGAAAAGGAGGGGAAAGGCACGCCAAGGCCAC CAGGAAAAAGCAAGCCAAAGCAGGCCGGAAAAGGAGAAGGCC G G G G G GAGTAAAAAGGAGAAAACCGACCGGCCGGCGGGGGCA G G G G G A A A GA G G G A G G G A G GAGCAGGGGAAGGAAA G G G A A G A A $A C A A G G A A A A G G A A G G C C A A A A A A G G G A G G A A A A G A A G A G A G$ GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAGAACC G G G G G GAA A GAAGGCAAGAAAGCAAGAGGGAGGACCAGAAA G G GAA A A GAA $A \operatorname{A} \operatorname{A} A A A A G G A C C G G C C A G A G G G G G A C A G G G A C A G$ A G GAAACCGGAGGAAAAGAAAAAGAAGAAGAGGAAACCAGGG G GAAAAAGAACCGGAAGGCAAGGGAGCCGGAACCAAGGAABA GAAAACCCGGAAGGAGACCCGGCACCCAACAAGGAGGGAGAA A GAACCGAGGAAGGAAGGGGAGCCGGACAGGGGGACGGGGGG A GAGGGGGGGAAGGGACCATAGGAGGAAAAAGAGAGAAAAAG
 $A G G G A G G A A G G G G G G G A A A A A G G A G G C C A A G G G A A A G A A A A G$ GAGAGGAGGGAGGAGACCAGGGTAGAGAAGAAGAGAAGAGAA GAAAGGCCAAGGGGAAGGAGGGGGGGAGAAGACCAGAAGGAG GGGAGGACCCGGAGCAAGAAAAGGCCAAAAAAGGGGAAGAAG A GAA A G G G A A G GAAAAGGCCACAACCAAGGGGGGAGAAAAAG G GAAAAGGGGCCGGGGAAGGCCCCGGAAAACAACAACAGGAA AAGGCAAGAGGGCAGAAGAGGAACAGAAAGGGGAAGGGGGAG A G GAACGGAAAAAAAAGGGGAAGAAGGAAAGGCAAAAAGGAA GAAAAGAACCAAGGCCAGGGGAAACAAAAAAAGGAGAAAGAG A G GAA A A GAAA $A$ A $A \subset C A A G A G G A A G G A A A A A A A A G G A A G G G G$ GAAGAGGGGAGGGAGGAAGACAGGCCGGAAGGAAGGAGGGGG G GAGGGAAGGCCGGGGAGAGGGAAGGGGAAAGGGGGAACAAA $G G A A A A A A G G A A A A A A A A G G G G C C G G A A G G G G A G A A G G A G A C$ A A G A A C A A G G A C A G C C G G T T G G A G A GA GAA G G G GA GA GA G G A G G GAGGGGAGAGGGGAGAGAAAAAAAGAAGAAAGAGAAGAAA A G G G G A G A G A A GAAGGAGAGCCCCACGAGGAAGGAAGAAAGA A A G GAA A G G GAAAAAAAAAAAAGGGGGAAGAGGCAAAGGAGAA G G G GAAACGGGGGGGGGGAAGGAAGGGAGACAGGCAAAAGAC A GAGAGGAAACCAAAAGGAGAAAAAGGAAGGAAAGAGGCCGG AAACAGGGGGAGGGAAAACCGAAGGGAGCACCAGAAAAAAAA

G G GAAAAGAGAACCAAGAAGCCAAGGGAGGCAAAAAAAGAAA A GAACCAAAAGGAGGGAAGGAAGGCCGACCAAGGAGAAAAAA A A G G A A G G A A A GAGGATAGGCAGGGGAAGGGGGGGGAAAAAC C G GAA A A GAA $A \operatorname{AGG} \operatorname{A} A \mathrm{~A} A A G A G G A A A A C C A A G G G G G G C A G G A A$ A A A A A A A A A A A A A A A A A GAA G G G G GAAAA G GA G GAA G GAA G G A GAAAAAAGGGGGGAGGACCCAAAAAAAGACCGGGAGAAAAG G GCCAACAAGGGCCAAGGGGAAGGAAAAGGGGAAGAAAAAGG $G G A G G G A A G G A G G A G A A G G A A G A A A G G A A A G A A A C C A G A G A G$ G G A A A A G G A A C C G G G C G G A A A G G GAGAAAAAGCGCAA GAAAA A GAGAAAAAAGGAAAAAGGGAAAGTAGAAGGGGGAGCCCAAA G GAACAAGGGAAGGACGGGAGAGAGAAAGGCCAGAGGAAAAAA A G G GAA A A CAAAA AAAGGAGAAGACCGGAAGGAGAGGAGGAG
 G G G G A G A A G G G G G G G A A A G G A A A G G GAGGGC CA A A C G G A A G G CAGAAAAAGGCCGGAAGAGGAAGGAACCGGACAAGGGGGGAG
 C CAGAGAACAGGAAGGAAAAACAAGAAGGAGAGGGGCAAACC A A A A A GAA A G GACAGGGAAACGGAGGAAGGAAAAAACCGGGG GAGCAAAGAAAGTAAACCAACCGAAGAGAGGAGGGCCCAAAA G GAAC GAA $A \operatorname{A} G C C T A A G A G G G G G A A A A G A G G A A A A G A A A G G G G$ G G G GAA A G G GAAAAGGGGACGGAGGGCCAGGGCCGGAAAGGG AAAAAGGGGAAACGAACCGGAAGGCCAAGACCGAGGGGGGGG G G G G A A A A A A C C C GAACAAGGGAGGGAAAAAAAAAAGACAA G A G G GCACCAAAAAAGGACATAGAAAAACAAGAAGATAAATAA GA $\operatorname{G} G A A A A A A A A G G G G G A A G A G G A G A G G A G A A A A A G A A A G A A$ CAAAAGGGGAAACCGGCCAAGAGAGGGCACAGGGAGAAAAGA AAAAGGGGGGAAGGTTAAGGGGCCGGCAGGCCCCACAAAAAA G GAA A A G G G GCGAAGGGGGAATACCCCCAAAGCCCCAAGAAA G GCCAGACAGAGAAAGAAACGGAAGGAACCGGGGAAGAAAAC A G TAAAAGAGAAAGAAAAGGGAGAAAAGCAGGGGCAGGAAAAA A G A A G G A A G G A A $\mathcal{A} G G G G G G A G G G A G G A G A A G G A A A G C A A G A A$ AAGGAAAACCGGAAGAGGCCGGGGATAGCCGGGGGCGGAAGA C CAACCAAAAGACAAGGGAAAAAGAGGGGAAAAAAAGGAGAA T TAA $A$ A $A G A G G A A G A A G G G G G G A A G G G G G G A A A A A A G A G G A A$ A G A A A $A$ A $\operatorname{A} A A G G G G G G A A G G G G G G G C A G A A G G G G G A G A A A G G$
 G G T T G GAA $A \operatorname{GA} A A C C G G G C C C A G A A G G G G G G G A A G G G A G A A A$ GAGGGGGGGGGAGAAGGGGGGGGAAAAAAGGGAGGGGGAAAA G G G G A A G G A G A A G G A G G G A A A A G A G G A A A A A C A A G G C C G G G G A G GA $\operatorname{A} G \subset A G G G G G A A G A A C C G A A G G G A A C C A A A C A A A A A A G A$ A G A A A TAGTTAACAGAAAGGAAAAGGAAGGCGGAGGAATTAA A A G A G A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G B G A A$ AAAACCAAGGGGAAAACCAAGGAAAAAAAACCGAAGGGGGCC GACCAAGACAAGACAAAGCACCGGGGAAAAGGAACCAGAAGAA CAAAGGGCAAGGAAAAGGGGAGGAAGAGAGAGAAAGAAGAAA CA A GAA $A \mathrm{G}$ GAAACGAAGGGAGAACCGGAAAAGGAAAAGGAGAA A GAGACGGAGGGAGGGAAGAGGAAGGGGCAAGAAAAGAAAGA A A G G G GCCAAGGGGAGGGCCCCACAAGAAACAGAGGA
GCAGAGGGGCCAAGGGGACAGGAGGCACCGAACCCCAGCAG AA $A G A A A A A G A A G A A G A C C G G G G G G A A C A A A G A A G A A G A G A A G$ G G G A T T GAAAAGGAGGGAGGAAGGAAAAGGAAAAAACAAAAA A $G A A A G G G G G G G A G G G A G G G G G A A A A A A A A G G A G A A A A G G A A$ CAGGGGAAAAGGGGGAGAATGGAGACGGGAAAACAACCCCAG AACCCCAACAAAAACCAAAAGGAAGGGGGAGGCAGGAACCAA G G A A A A GA $A \operatorname{G} G A A A G G G A G G A G G A G G A A C C G A A G T T G G A G A G$ A A G A G G G A A A G GA G C C A A A G GCAGGGAAAAAAAAGAAA G GAA A AAGGAAGGCCAAAGAGAGAAGAGGCCAGAAAAGGAAACCCAG G G G G A A G A C C G G G G G G G G A A A A A A A A A A A A C GA G G G G G G C C G G $G G A A A A G G G A A G C A C A G A G G A A G G A A G G A A A A G G G G A G G G C A$

CAAAAAAACCCCGGGGAGGGGGAAGGGGGGGAAAAAAGAGGG CAAGGGAAGAAAACAAAAAAAGAAGGAGGAAGAGAAGAAAAA C C G G G GAACCTTGGAACAAAGGGGGCAAGGAAGAAAAGAAGAG G G G GAACCAGGGGAAGTTAAAAGGAGGAGAGCCCAAAAGAGG G G G G G GAACCGGGGGGGGCAGAGGGGGGGAGGAAGGAGAAAG A G G GAACACCAAGGGGGAAGGAGGGGGGGAGAAAGGAACAAA G GCCTTGGGGGGAAAGAAGGAGAAAAAGAAGGAAAGAACAAA $G G C C A A A A A A A G G A A A G G A A G G G G G G G A G G A G A A G G G G A A G A$ GAGGAAAAGGGGAAAAAAAAGGCAGGAGGCGGGGAAAGAGGG GGGAAGCCGGGGAAGCGAAAAAGAGAAAAAGGAAGGGGAAAA T TAA A GAGGACCAAGGGGGGGGAGAAGAAGAAGGAACAAAAAA A GAAAAGGGGCCGAAGAAAAAACCCACCGAAAAAAAG GAATT A ACCTTGGGCAACCAGAGGGGAGAGGAAAGAAGAAGCAAAAA G G G G A A A A G G A A G G A A $\mathcal{A} G G A G G G G G G G G C A G G G A C A A G A C A A$
 G G G GAAAAACGGAAGATTAAAGAAAAGGGGGGGGAAGGAGGG $A A G G G G A G A G G G G G C C A A G G A A G G G G A A G G A A A A B G C C G G G G$ G GCCGGGGGGGGGGGGGGGGGGAAGGAAAAAACCCCAAGAAA $G G A A C C A A A A A A G G G G C C A A A A G G C C C C A A G G G G G G A A G G A A$ G G G G A A G G G G A A G G G G C C G G G G A A G G G G G G A A G G G G A A A A T T AAAAGGAAGGAAAAAAAAGGAAAAAAAAGGGGAATTCCGGGG G GAAAAAAAAAACCCCGGAAAAAAAAAACCCCAACCAAGGAA
 G G G G G GCCAA G GAACCGGGAAGGAAAAAACAAAGACGGGGGG GAAACCAAGACCGGGGGGGGAAGGGGAAAGAGCGTAAACAGG GAGGGGGAAAAAAAAAGGAACCAAGGAATTGGGGAAAAGGCC AA $A G A A A A A A A A A A C C A A A A G G G G G G G G A A G G A A G G C C A A A A$ G G G G G GAA A GCCAAGGAAGGGGAAGGGGAAAAGGGGAAAAAA G GAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A A A A A A A A A A A G A A G G G G G C$ A G G G G GAACCAAAAAAAAGAGGGGAAAAAAAAGGGGGGAAAA $A G C C G G G G G A A G A G A G A A G G G G A G A G G G C A A G A A A A C C G G A G$ ACTAGAAAAAGAAAAGAAAGGGGACAGGCAGGAAGAAAGACC $C \subset A G G G A A A C G G G G A A G G C C A C A G G G G G G G G G A A G G G A A A A A$ G G A A A A G A A A C CAA $A \operatorname{GGGAAGGGGGAAGGCCCCAGAAAGCCGG}$ A A A A A A GAA $A \operatorname{AGGGGGGCACCGGGAAAGGCCGGAAAAAAGGAG}$ A G A A G G G A A A G G G CAC G G G GAACC GAACCAACCCG GAACC TA A GA A G A G G A A G A G G A A G G G G G A T T A A A A G G G G G G A G A A G G G G $G G C C G G G A G G A A A A G G A G G G A A A G C C G G G G G G A A A G A A G A G A$ GAGGGGGGAAGGGAGAAACCGGCCAAGGAGGGGGAAAATTAA ACGGAAAACCGGGAGGGGCAGGGGAAAGCCAAGGAAGAAAAA AA GAAAGAATAGGGGGAAAGACGGAAAGGAAGAAGACCBGAA GAAA $A \operatorname{AGGGAA} G G A A A A G G A G G G A C C A G A A G G A A A G G G B A A G G$ G GAAGGGGAAAAAAAAGAAAGGAGGGGAGGGACAAAGGAACA C C A A G G A A GAGGGAGAAGCAAGGAACGAGAAAAAAAGACAAA G G G G A A A A C C C C A A C C G G CAA A G G GAGGAGGAA GAAAA G G G G G G G G A A C C G G G G G G A A A A A G C C G G G G A A A CA $\mathcal{A} A A A A G G A A A G B$ G G A G G G G G G G A A A A G G A A A GAA A A A GGGGGAAA A A A G G C C A A $C C G G A A G A G G A G G G A G A A A A G A A G G A A G G A A A A A G G A G A A G G$ G G G GAA A GAGAGCCGGAAAAGGAGGGGGCCAGGGAGAGGGAC G GCCAGGAGGGGACAAATGAAACCAAGGAAGGGAGGGGCCBG G GAGAGGGAGCCAAAGAAAGGGGGAAGGAAAGAAAAAAAGAC C CAGAGCCAGGAGGAGGAGAAAGGCCGGAAGAGAAAGGAGGA G G G G G C G A G A A A A A $\mathcal{A} G G G G G C X A A G G A A A G A G A G G G G A A A G B$
 G GACGGAAGGAGGAAAAAATAGAGAACCGAGGAAAAAGAACC G G G G G GCCACAACCAACAAAGGGGAACCGGGGGGGGGGAAAA T T C C A A A C C C G G G G GAC G GAAAGGACGGGAAAGGAGGGAACA G A A A A A G G A A A C A G GAAGGGAGGAAAGGGAGAACCAAA GA G G GGGCAGCCAAAGAAAAAAAGAAGAGAAGGAAACCAGCCAABA
$C C G G G G G G G G C A C C A A A A C C G G G G A A A G G A G G G A G G G G G G G G$ AACCGACAGAAGAAAAGGGAAAAAGGAAGGAAAAGGAGCCGG CACCAAGGGGAGGGGGGAGGGGGGAGAGAAAAAACCAGAAGA G GAA A G G GAAAAGGCCAGATGAAAAAGGAGAGGAGAAGAAAA A GAA A G G G G GAGGAACGAGGGAGGGAGAGGAAAAAGAGACAG A A C C A A G G A A G GA GA GAGAAAGAAGGAGGAAAA GAACA GAAA A GACAGGACAGGGAGAGGGAGGAACCGGAGGGAGAGAAAAAG AGAAGGAACCAAAAAGAAAGGAAGCCAGGGGGCAGAACAGCA AAAGGGCCACAGAGGAGAGAGACGGGGGGAAGAGGAAAGGAG A GAGGAAAAGGGGAGGGAGAAGGGGGAAAAGGAGGCGACAAG GAGGCAAGAGGGGAGGAAAGAAGGGAGGAGAAGGGGACAGAA GAAACAGGAAAAAAGGAAAAAAGAGGAGGGCAGAAAGGCCGG
 A A G G G G A G A A G G A G G G G G C C G G G A GAGAAAAC A A A GA G G G A A G G GAGGAGAGAGAGGAAGGGGGAAAAGGCCGAAGGAAGAAAA A A A A A GAAAAAAACAGGAAGGAAAAGGGGGAGAGAAAAAAGA A GACGGAGCAAAAAGGAGGGAAGGGGAGAGCCAAGGGGAGCA A GAGAAAGGGGGGAGGAAAGGAAGAAGGAAGGCCAAGAAAAA AAAAAAGGGGGGGGCCCCGGAAGGAAGGAAGGCCCCGGAGAA G G G G G G A A G G G GC C A A G G G GAAAAAAAAAGGGGAAAA GAAG G G AAACGGGGACGGAAAGAGGGGGGGAACCGGAAGAGAAGACAG GAGGGGGGAGCCCCAAAAAAGAAAAAGGAAGGGGCCAAGGCC C C GGCCACAAAAAAGGAAGGAAGAGAAGGGAGAAGAGGAGAA G G A A A A A A A A G GCC G G A A A A G GAAAAAAAGGGGAA GGGGCCGG C C G G G GAA $A \operatorname{GGGGGGAAAAAAAAGGGGAAGGAAGAAAGGAAGA}$ $C C G G T T A A A A G G C C C C G G A A G G A A A A G G A A A A G G C C A A G G G G$ G G G G G GAAAAAAGGAAAAAAAAAACCAAGGAAAATTAAAAAA
 AAGGCCGGAAAAGGAAGGGGAAAAAAAAGGGGCCAAGAAAAA GGGGGGCCAAAAAAAAAAAAGGAACCCCGGCCGGGGAAAAAA GGGGAAAAAAGGAAAAAAAAAAAAAAGGCCAAAAAAGGAAAA $C \subset G G G G G G G G G G A A G G G G A A A A G G A A A A A A G G A A G G A A A A A A$ A A G GAAAAAAGGAAAAAAAAAAGGAAAAGGGGAAGGGAAAAA G G A A A A C CAAAAGGGGGGCCGGAAGGGGGGGGCCAACCABAA A A G G G G G GCCAAAAAAAAGGAAGGAAAAGGAAAACCGGGGGG $G G T T A A G G G G C C A A A A A A A A C C G G G G A A A A G G G G G G G G G G G G$ G GCCGGGGCAAAAAAAAAAGGAGGAGGAAAGGGGAAGGGGCA G G G GAGAAGGAGGGGGAAGGGAGGAAAACCAAAAAAAACAAC CACAAACCGAAGGAAGGGAAGAAAAGAGGGAAGGA GAGAGAG A A GA $\operatorname{A} G A A A A A G A G C C C A A G G A A A G C G G G G G G G G G G G A C C B G$ AGGGCCCCGGAAGGGGAAAAACGGAAAAAAAAGAGGAAAACC G G A G A G A G G A A G G A G G G G A G G A A A G G G G G G A A A A A A C CAAA A A GA $A$ A $\operatorname{A} A A A A A A A A G G G A G G A G G G A G A G G G G G A A G G G A A G A A$ G G A A A A A G GAA A G G GAGGGGAAGGGGAAAGAGAAAAAGAAAA A GAGGAGAGACCGGGGGAGGAAAAAACCAAAAGGGGGGATGG G GAACCGAAAAACCAGGGCGCAGAAGAAGGAAGGAGAAGGBA
 A A A A G G G GAAAAGGAGCCACGACAAAGGAAAAAACGC
CAAAGGGAAGAAACCGGGGGGGGGGAAAAAGGAGAAAAAAA G G A G A A C C G G A A A G A G G GAGGGGAGGAAGGAAAAAAAAAGGG G GAA A G G G A A G GAAAATTAAAAAAGGAAGGAAGGAAAAAAAA CAAAAAGGGGGAAATTCCCCAGGGAAGGCCAAGGGAAGAGAA A G G G G A A A C C G G C C A A G G A A C C A A A A GA G GAG GAA G GAAA G G $A A C C A A G G A A G G A A G G G G G G A A G G A A G G A A G G G G G A A G A G G G$ A GAGGGAAGCCAAAGACAGGAAGGGGAAAAAAAGAAGGAAGG A A A A G G G G G G G G G G C C A A G G A G A C A G A A G GA GAAAA A G A A G A AAACGGGGGGAAGGACAAGAGAAACCGGAAAAAAGGGAAACC G G A A A A G G A A A A A A A A A A G G G G G GAA GAAAC A A G GA GA GAAA $A A C C C A C C A T G G A G A A G G A A G G A A C C A A G G A A G G G A G G G G G A$

G GAAAAGGAACCAAGGGGCCGATAAAAAGGGGCCAAGAGAAA A A A A A A G A A G G A A G A A GAA $A \operatorname{AGGGGGGCCGGAAGAAGGGAAAC}$ AAAGGAGGAGAAAAGAAAAAGAGGAAAAGGGAAAAAAAAAGG A A A A G GAAAAAAAAAACCGGGAAAAAGGAAGAGAGGGGAAAA A GAAAAAAAGGGGGCAGGAGAAGGAAGAAAAAGGGAAGAGAA AAAAGGAGGACCGGGGAAAGGAAGAAAGAAAAGGAGAAAAAA G G A G G G G G A A G G G G G G T T A A C C G GC C A A G GCCA GATAG G G A A A A A A G GAA A GAGAAAGGAAGGAGGGGGGAGACAGGGGGAGGG G GAGAGGGGGAACCAGGACAGGAAGGAGGAAAAAGGCAAAAA AAGAAAGAGACCCCAAAAAAAAGAGGAGGGAGAGGGGGAGGG GCAGGGGGGGAAGGGAAAAATTAAAGGGGGAGAAAAAGAGAA G GCCAAACAAGAAAGGAAAAGGAAAGAAGGAAATAAAAGAAA AAAGGAAAGAAAAAAAGAAAGAAGAGAAAAAAAAGGGACACA GA $\operatorname{G} G A G G G A G A G A G G A A G C G C A G A G G G G G G G G G G A A C C A G A A$ ACGGAAGGAGAGAAGACCACACAAGGGGGAGCAAAAGGAAAA GACCGAGGGAAAGGGAGGTTACAGGGAACCAATAAGGGGGGG $A G G G G A C A A G G G G G G G A A G G A G G G A G G A C A C A G A G G G G G G A G$ G G A G A C A G A G A G G G G G A GCAA G CACCGGGAAAGGGGAAGGCC GAAGAGAAGAGAGACCACGGGGAAAGAAAAGGAGGAGAAGAA A A G G G A C A G G G A A A G G A A A G A A A CAGCAC GAG GAA G G G A A A A A A G G G GAAA A A A A GAAAAAGGGGAGGCCGGAAAA GGGGGGGG GAGGAGAGAAGGCCGAGGGGAAAAAAAACAGGAGGGAAGGAA G G G A A GCC G A G GAGGGGAAAACCCAAGGAGAAGGGGACCCGG G G A A A A G G G A A A A A G G A A G A A A G G G G A A G G GAC C A A G G A G C C A A GACCCCCCAAAGGAGAGGAAGGCCGAAAAAGGAAGGAAAA G GCCGAGAGGCAGGGGGACCCCGGGGAAAAAGGGGGAGAAAA C C A A A C A G G GAAAAAAAGAGGAGGGGGAGGGAAGATAAAAAG G G G G G A G G A C A A G G G G A C G G G G A G A C A G G G G G G A A G A A A A G G $A G G G A G A A A A G G G G G G A A G G A C G G C C A A G G A G A G A A G A A A G A$ $A G A G A A G G A A G G G G G G G G G G A A A A G G G G A A G G G A G G G G A A A A$ A A G A G A G A A A A G G G G G A A G G A A A A A A C C G G G G G A G G G G G G A G GAGAGCAGAGGGAAGGGAGGAAACGAGAGGAAAAAAAGAGAG GACCGGAAGAAAACGGAGAAGGAAGGAAAACCGACCAAGGAA
 AAAAGACACCGAGAAGAGGGCCCCGGCAGGGAGGACGAGGAG
 ACAA C G G G A A A A G G G G A A G G A A G G A G G G A G G G G A G A A A A A G G AACCGGAAGGGGGGGGAAGGCCGGGGAAAAAAAAGGAAAAAA G GAA A A C C G G G A A A G G A G C C G A G G A GGGAAGGGGGGAAAAAA
 G G G GAACCGGGGAAAAGGAAGGAAAAGGGGAACCGGGGAGAA A A G G C C G G G G A A G G A A A A A A G G G G G G C C C CAAAA A G G G C C A A AAGGAAGGCCAAGGAAAAGGAAAAGGGGGGGGGGAAGGGGAA A A G G A A C CAA $A \operatorname{AGGGGGGAAAAGGGGCCCCAAAAAAAAAAAA}$ A A A A C C A A G G G GAA A G A A A A G G G G G G A A A A A A C C A A A A A A A G G G G C A G G G G G A A A A A A G GA A A C A A G GAGAGGAGGTTGGTTAA G G G G A G G A G G A A G G A G G G G G G G A A G G G G A A A A G A G G A A G G A A $C \subset G G G G A A C C G G G G A A G G A G A G A G G G A G A A G G A A G A G G G G G G$ GAGGGAGGAAGGGGGGAGGGGGAAAAAAGCGAGGATAACCCA A A G G A A G G G G G G A A A A A A C C G G G GAAAACGAGGAGGGGABAA G A GACAACCACGAGAGGGGGGCCCCACGAGGCGAAAAGGGGGG G G G GAACCGGAAAAAAAAAGACACGGAAAAAAAAGAAGCCCC G A A A A A A G G A C C G G G G A A A A A A A G G G G G G A G A A C A GA GAAC C A A A A A A A GAAGGACAGCCTAGGCCAAAAGGGGAAAAAAAAGG G GCCAAGGGGGGAAAAGGAAAAGGAAAAGGAAGAAAAAAGAG AAAGGAAAAGGGCCCCAAAAAAAAAAGGAAAAAAACGGGGGG
 G G G G A A G GCCAA G G GAAAGGAAAAGGCCCCAAGGAC G GAAAA G GCCGGGAAAGAGGAAAGCAAAGGAAGGCAAGAGGAGGCAAA

AAGGGGCCGACCAACCAAAAAAAAGACCGGGAAACCAAGGCC A G A G A A A G T T A G G G G G G G G G A A G G A A A G A A A G G A A A C C G A G G AAAAACACCCGAGGAGGGGGGGCCAAGAACAAGGBAAAGGAG A GAA A A A G G GATGGGGAGAAGAGAGAAAACAAAACCGAAAGG AA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A C C A A G G C A G A C C A A G A A A G G G G$ $A C C C C C A G A A A A A A G A G A C C A A G A G A A A G C G G A A A A G G A G A A$ G G G G A A C A C C G GA G A G A GAAAGCCTAA GAGAGGAA GAGAC GA G G G G A A G A G G A A G G G G G GAGGGGGAGCCGGAAGGGAAA G G G G C C A A G G A A G G G G G G G A G A G G G A G G C C C C A G GA G G G G A A G G G G G GCAGGGGAAGGCCGGAAGGAAAAGGAAACCCAAGAGGGAGG A A G G A A GACCGGGGGGGGCCAAAAGGAAGATTCCGGAAAAGG CAATGGAAGGCCGGAGTTAAGACAGGGAAAGGAAAAAAAAAA A A A A A A C C GAGGCCAAAAGGGAACGAAAGGAAGGGAGGAGAA A G G G A A A A A G A GAA A A G G G GA $A \operatorname{AGGGGGGAAAGTTAGGGAGAA}$ G G G G G GAA $A \operatorname{GGGGGAAAGCCGGGAGAAGGAAAAAGGAAGGCC}$ A A A A CCAA G GA A GAAAGGCAGGAAGGTTCCGGCCCAAAGGGG $G G C C C C G G A A A A G A C C A G C A C C G G A A G G G G G G A A G G A A A G A G$ G GCC $C$ G G G G G G G A G G G G G A G A G G A A G A A C C A A C C G G G G G G G G A G G G GACAACGAGAGGGGAGAAGGGGCCGAGGCCTTGGAAAA ACGGAAGGAGAGAGGGAAAACGAAGGAAAAGGCCGGGAAAAA GAGAAGGAGGGAGAGGCCGGAGAGGGAGGAGAACACAAGAAA C C G GAA $A \operatorname{GAA} \operatorname{A} G A A G G G A C A A A C A C C G A A G G G G A A G A A A C G G$ A A A GAGGAGGAAGGAAAGGAGAAACCGAGAGGCCCAAGAGAG A A A G A A A A G G G G G A A G A GACGGAAGAGGAAAAGGAA GAAA GA G GAAA A A G GAAAAAAAGGAAAGAGGGGGGGGAAGGAAAGGAG AAACAAGGAGGGGAGGGAGGAAAAAAAAAGAGGGGAAAGAGG A GAGAACCGACCGACAGGAAGGAAAAAAAAGGGGGGAAGAAA G GAGACGAAGGGACGAACCCAAACAGCCGGACGAGAAAGGGG A A G G A GCAGGGAAGCCGAGGCCGGAGAAGGCCAAAAAGAACC G G G G G G A A C C G GAA A G G G G G G G A A A GCCACCCCAA GAGACAC C C A A C CAA A A G GCCAGAAAGGGGGGAAAAAGGAGAAAA GAAA G G GAA A G GAAGAAGAGGAAACCGAAAGGGAGGAAAAGGGGAG
 G GAAGCAGGGCCCAACGAAGGGTAAAGAAGAGGAGBAAGGGG A A G G G A A G A C G G A C CAGGGGAGGGGGAACAGAGGAGGAAAAA G GCACCAGAAAAGGAAAAGGAGGAGCAGGAAGGGGAGGAA G G A A GAAAAAGAGGAAAAAAAAGGAAAAAGAGGGTTGGGGAAAAAA AAAGACAAAAAAACGAGAAAAAAAAAGAGGCCAGAAACAGCC A A A A A A A A A A A GC GAA $A \operatorname{GAAGAAACAGGAACGGAAGGGACGAT}$ G G G G A A G G A A G G G A A C A A A G G G G G G G A A A A G G GA G G GAAA A $G$ A G G G G G G G A G C C TA GAATAAGAGAAGCCAGGAAGGACC G GAA C C A A A A G G T T A A A A G G A A A GAAAATAGGAAGACCAGGGA GAA A A G G G GCAAAAAGAGAAAAGAAAAAGGGGAAGGGAGAAAAAA G GAGCCAAAAGGAAAAGGGGGGAAGGATGGCGGGAAGGAGAA
 G GAA $A \operatorname{GCCA} A A G C C G A G A A A G G A A G G G A A C G G G A G G C C A A G B$
 G GAAGGGGGGGGGGAAACGGAAGGGGAAAGCAAGGAG
G GAGGCCAGAAGGAAAGGGAAGGGGGGAAAACAGGGAAAGG CAGGCCAGGGGGAACCGGAAAAAAGGGGCCGGAAAAGAAGAG A A A A C A G A T T A A G A A A A A G G G G G G A A A A G GCC GAAAAA G GAA A GCCGGGACAAAAGCCAATTGGGACCGAAAGGAAAGAGAAGG A A G G G GCCAAAAGGACAAGACAGAAAAAAGGGGGGAAAAAAA A G G GAGGGCCAAAAGGAGGGGGGAGGAAGAGGGGGGGAACAA G GCCCAGGAGAACCGGAAAACCAAGAAGAGAAGGAAGAAAGAG A G G G G GACGGAACCAAGGAACCAAGGGAAAACGGGAAGAAAG GGCAAATTGGGGAGGAGGCCGGAAGGAAAAAAGGGGAAAAAA C C A A G G A A G G G G A A GAAAAAAAGGAACGGGAAGGAACCA GAA G G GAGAGGCACCAACCAAAAGAGGGGAGGAAAGAAAAGAGAA

AAAGAAAGCCGGGACCGAGGAAGGGGACGAAAAGAAAAAAGG A A G G G G A A G G A A G G G G A A G G G G G G A G G G A A A G A A G G A A A A $G$ G G $G$ TAA $A \operatorname{AGGGGAAGAGGGGAAAAAAAGAACCCAAGGGGGAGGG}$ AAGGAAAAAAAAGGGAAGAAGGCCAAGGAAGGAAAAAGAAGG C GAA $A \operatorname{GA} A G G A A G G A G G G G A G A G A G G A G G C A A A G A G A G A G A A$ G G G G G A C A G GAA $A \operatorname{A} A A G G G G G G C A G G A C A G C A G G G G A A A A G G$ G G A A G G G G A A A A G G T T G A C G C A A G G A A A A A G G G G G A G G G A A A G G G GAAAACCAGAAGGAAGGAGAAGGACGGAGAAAGGGCCGG
 G G TAAAGGGAGAGGAACCGGAAAAAAGAGAGGAAGGAGAGAA G G G G A C G G GAGGGAGAGGAAAAAAGACCGGGGGACCCAGGCC $A C G G G G G G G G A A A A G G G G G G G G G G A A A A G G A G A G A G A A G G B A$ G GAACCGGAAAAGGGAGGTAGAGGGAAAGGCCGGGGAAGAGA $G G A G A G A A G G A A G A G A A A G G A G G G G G G G A A A G A C G A A A A A G A$ G G G GAA A CAGGCCAAAAGGGAAGAGGAAGAAAGGAGGGGGGG A G G G G GAGGGGGAAGAAAGGAGGGCCAAGGAAAAGACAACAA GAAAGGAACCGGAAGGTTAACCGGAAGGGGGGAAAAGECAAA G GCCGGAAAAGGGGCCAAGGAAGGGGAAAAAAGGAAAAGGAA AAAAGGCCAAAAGGAAGGAAGGGGGGAACCGGGGAAGGAAGG G G A A A A A A $\mathcal{A} G G G G G A A G G G G C C A A A A A A A A A A G G A A A A A A T T$ GCAGGAACACACGGAGAGCAAGAAGGGGAAAAAGGGAGCCCC A G G GAA A G GAGGGAGGGGAAAAGACAGAACAAAAAAAATAAG CACCGGAAAGGGGGAGAAGGCAGAAAAGGGGGAAGGGAAAAA G GAGCAAAAGAGGAAAAACCCCCCAAAAAGACAAGGCCGGGG A A C C G G G G A A GAG G A G A A G G G G A A G G A A A G G G G A A A A A G G A A AAAAGGGACCCCGGGCAAAAGGGGAAAAGGCCAAAAAAGGAA AA $A G C A G G G G C C G G G G A A A G A A G G A G A A A A A A G G G G G G G G G G$ GAAAAGGGACGAACAGCCAAAGGGAAAAGGGGAAGGAAGGCC GAGGGAGGACTTACAAAAAAGGAGAAAAGGGGAAGGABAGAG $G G A A A A A G C C A A G G A A G A C C G G G G G G G G C A A A A A G G A G A A G G$ AA A G G GAACAAGCCGAGGGGAAAAGGAAGACCAA GAAAGGCC AAGGAAGGCCAAAAGGAAAAGAACCCAAAGGGGGAAGGAAAA G GAGACGGAAGGAGAAAAGGAAGGGGAAAACCAAGGAAAAAA A A G G G G C A C A A A A G A A A A G G G G G G A C G A G G A A G G G A G G C C G G C C G GAGAGCCAAGAGGAAAAAACAGGAAGACCACGAAGGCBA A A A A A A G G A A G G A A A A A A G GAACCGGGGAGAAAAG GA GAAAA A G G G G GAAAACCGGAAGGGACCAAAAGAAAAAGGAAGGGGGG AA $A G G G A A A A A G C C A A G G G G T A A C G G A A A A G A A A G G G G A A G A$ A A G G G A A A A A G G G G A GCGAAAAAACAATCCGAGAACGAAGAA A GACAAAAAAGGAAGGAGAGAGAGCCGGGGAAGAGGCAAAAAA $G G C C G G G G C C G G G G A A A A A A A A A A G G G G G A A G G A T T G G A G G A$ AC G A A T G G A A A C G A A A G G G G A A G A G G G G G A G G C A A A A A A G G G GAAGGAAGAAGACCGGAGGAAAGGGAAAAGAAAGAACCAGAC GAAAAAGGAAGGGGGAAAGGGAGGAGAACCAAGGAGCAAAAAA GACAAAGGGGGGGGCCAAAAAAAACCAAAAGGAAAAAGAAAG GAGGAAGGAAGGGGGGAGGAAAAACCAAGGCAAGGAAAACCC GAGAGAAAGAAGGGGAGACCGGAAAAAAGGAAAGGACCCCGG G G GAAA A GAA $A \operatorname{Ag} \operatorname{A} G \mathrm{G} A A A A A C C A A A A G G G A A A G G C C A A G G A G$ A G G GCCGGGCGCACGAACAGCCGGGGGGGGAAACACAAGGGA A A G A G A G G A A A C G G G G A A A A A A GAAAGGGGAGAAGACAAAAA AACCAGGAAAAAAAAAAAGAGGAAGGGGCCAGGGCCCCACAAA G G G G A A A A G G G G A G G G G G A A G G G G A A A G T TA A G G G G C C G G A A
 AACAGGGGAAGGGGAAAAAAGGCCTTAAAAAAAGAGAGAGGG G G G A A A A A A GAACCGGGGGAGGGGGGCCAAAACCGGAAAAAG GAGGAAGGGAGACAGGGAAAAACCCCAAGGAAAAAGAAAAAA A G A A A A A A A G G A A A A A G G GAGACCCCCCGGACAACCAGAAGG
 G G G G A A G G G GAAACCAAAAAGGACGGAAGGGAAGAAAAGGGG

G G G G A GACTTGGGGAGAAAGAAAAGGCCAACCGGGGGGAAGA A A A A G GA GAA $A \operatorname{A} G A A A A A G G A A A A A G G C C G A A G A A A A A G A A C A$ GAGGGGACGAGGAGAGAAAACCAGACGGGGAGGAAAAAGAAC A A G G G GAGAAAAAAGGAAAGGAGACGACACGGGGCCAGCAGA GAGCAACCGGAAAAGGGGAGAAGACAGAGAAACCAAAAAAGA
 AAAGGAGAGGCCGAGGAAGGAAAAAAAAGGGGGGCCGGAGAA AAGGGGAAAAAAAAGGAACCGGGGAAGGGGCAAAAAGGAAGB G GCCAA $C$ A A A $\mathcal{C} C A G A G G G A A G G A G A A G G G G A A A A C C A A G G G G$ AACCGGGGGGAAAAGGAGGAGAAAAAAAAAAAAGAACCAAAA A A G G G G G GCC G G G GCCAGAATXGGACGGAAAGACAAGGAGAA C C A G A A G G G G G G G G G G G G G G G G A A G A G G G G G G C C A A G G G G C C GAAAACAAGAAAACAAGGGGGAAGAAGGAAGGCCCCGAGAAG A G A A G GAAA $A \operatorname{A} G A A G G A A C C G G A A G G T T A A G G C C G G G A A G C C$ AA GAAAGGAAAAGGAAGGAGGAGAGACAAGAGCAGGAACCCC AACCGGGGACGGTTTTAGATCCGGAAAGTACCCAAAAACACAA A GCCGAGAGGAAAAAAACGAGAGAAGAGCCCAAAGGAAAGAG A GAGAAAGAACAGGGGGGGAAGGGGGGACCGGAGGGCAGAGG AAGAAGACAACCGGAAGGAAGGGACCAAGAAGGACCAGAGAA A A G G G A A A A G G A G G GAAA A $A$ A A A $\mathcal{A} G A G A G G A G A G A A G A A G G G G$ G G G GAAGAGGGGGACACCACGGAAGGAAGACCCCGGAAGGAG G G G GCCGGGGGGAAAGGACCACAGAGAGCCGGAAGACCAGAA AA $A \operatorname{GAA} A A A A G G G G G G A A G G G A A G C A A A G G A A G G A A A A A A G G$ C C G G A C G A A A C C A G G A A A G G C A G G G G G G A CA $\operatorname{A} G A G G A C A A G G$ $G G A A G A A A G G A A G A G A C A A A G G G G C A G A G G A A A A G G A A G G G G$ A G G A A T G G A A CAGGAAAAGAGGAGGGCCAACCAAGGAAAGAA CAGAAAAATTGGCCAGACAGAAGAAAAAAGAGAAAGGGAAAA A A GA $\operatorname{A} G A A A G C A A A A A C C G G A A G G A A G G G G G G G G A G G G G G A A$ G G G G G A A G A G G A A G A G G A A G GAAAGGGAGAGGGGA GAA GAAA AGAACCAAACGAGGAAGGGAGGGGAAGGAAGGGGAGAACGGG
 AAAAAACCCCAGACGGGGGAAAAGAAGGAAGGCCGGGGAAAG G G A A A G G G G G G G G A G G A G G G G G A G A G G G G G A G G A C C G G G A G G $G G C C A A A G A G G A G A A C G G C C G G A A A G A A G G A A G G G A G G A G G G$ G G G A A A $\mathcal{A} G G G G G G G G G A G A A C C G G A G G A G A A G A G A G C A G G G G$ G G G G A A A A A A A G G A G A G A G A G A G A G G G G G G GA G G A A G A G G G G AAAACCGGGGGGGGAAAAGGCAGGGGGAACGGGGGGACAAGG G GAAAAAAAAACGGAAGGGGAGGGCCGAAACCGGAAAAAAAAA G GAGGGGAAGGAAAGGAGGGAAAAGGGAGGGGGAGAAAGAAC T T G G G A A A A A A A G A G G G A G G G G A A G G G G G G A A G G G G C C A A A $G$ G GAAGGCCGCAACCGACGCCAGAGGGCAAGAAGGGGCCAGGA CA $A$ A $\operatorname{G} A A A A A G G G G C A C C G G G G A G G G G G A G A A A G A A A G A A A G$ GAGACCAGGACCAAAAGGGAAACACAAGAGAGCAAGAGGGGA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAAGGGCCAGAGAA A A G G G A G A G A G A G G A A G G G A A G G G G G C C A G G G A A A A A C A A G G G G A A C C A A G G G G G G C C A G G G C C G G A G G A A G A A G G A A G G G G G A G A A A G A G A $\mathcal{A} G G G A G G A G G G G G G G G G G A A A G G G A A A A A A A A C C$ A G G G GAAAAAGGAGGAGGAAAAGGAACCCCACGAAGA
$G C C G G A A C A C A A G A A A A C A G A G A G G C A A G A A G A G G G A C A G G$ AAGGAAAGACAGGGAGGGAAAAGGGAAAGACCAGGGCAAAGA A G A A A GACGGGGGGGGAAGGGGAAGGAAGAGAGGAAAACCAA A GAAAACCAGGGAAGGCCAAAAGGGGGACCGGAAAAAACCAA C CAAAAGGAAGGGGGGCCAAAAGGGGAACCGGAAGGCAAACC G GAA A G G GAACCGGGGAAGGAAGGCCAAGGAAAACCGGGGAA G $G T T G G G G G G G G G G G G A C T A A G G A A G A A A A G G A A G G A A G G G G$ G GAGAAAAAAAGAACCAACCAGGAAGACAGAAAAGGGGGGGG A A A A A A G GAGAGTAGAGGAAACAAAAGAGACAAGGGGAAA G G AC GAAACAATAGACGGAAGGAAGGAAAAAAGGCGGGGGACAA GAAGGGACAGAGGGAGAAGGCAAGAAAAAAGGGAGGAAACAA

GAGAGGGGGGGAGGAAAAAGAAAAGAGAAGGGAGAAAAAGGG GGCAACCCAACCGAAAAAAAGGCCGAAGGGAGCCAGAAAAAA $G G A A A A A G G A C C G G G G A A G A C A G G A G A A A G A G A A C C A G A A A A$ A GAAAAAATTACAAAGGGAAGGGAAGGGAAGGAGAGCCAAAA GACAAGGGGGAAGGAAGCCCGAAAAAGGGGGGAAGCGAAAGA GACCAAAGAAAGGAGGAAGGAGGGAAAAGAGAACAAGAAGAG A A G G A A G A G A G A A GAGAGCCGGGGAAGGCACAGGAAAAAACC GAGGGGGGAGCCAAAAGGGGAAAAAACCGGAGGAAAGGACCC AA GACAGAAGGAGGCCAAGGACGGAAAAAAAAAAGGGCGGAC GGAACCCCAACAAGAGGGAAAAGGGGAAGGTAAGAAGGGAGG G G G GAGAAAAAAGGAAAAACCCGGAGGGGGGGGGAAGGAGAA T T G G G A A A A G C C G G A A GAGGGGAAAAGGAGAGGGGAAAAAGAG CAAGAAGGAAGGGGGGCAGGGGGGCCAGAAGGGAGGGGGGGG G GCCAAGGGGAACCAAGGAGAAAAAAAAGGGGGGAGAAACGA G GACGGAAAAAAGAAAGGGGAAGGGGGAAACCACAAGGAAGA GAAGGGAAAGGAGAGAAGAAAGGGAAAACCCCAAGGCCAGAAA A GAA $A \operatorname{G} G A G A C C C C G G A A A G A A A G G A G A G A C A A G A A A G G G G G$ AAGGAACCAGCAGGAGGAAAACGGAAAAGAGGCCGGCCCCAA A GAAGCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGGATACC A ACCAGCCGGAGAGGGAAAAGGCCAAAGGAAGCCGACBAACC $C \subset A G G G C C G A G G A G G G G G G G C C G G A G G G A G G A A G A G A A A A G G$ A A G G G G A G A G G GC C A A G G G G G G G G G G G G A A A A A A C C G G T T A A G G G G A A A A A A G G G G C C G G G GACAGGGAGCAAGCAA GACAAAG G G A A G GCCAGGAGGAAGGGGAAGACACAAGCAGAGAAAAAAG $A C A G C C A G G A G A G G G G A G G G G G A G G A G G A A G G A G A G A G A A C C$ A GAAAA A GAA G GCCAAAAAAACCCAAGGAAGGAAAGGGEGAA $C \subset A G A A A G A G A G G G G G A A G G A A G G G G A A C C G G C C G G G G A G G G$ C C G G G G A A G G G G G G A GCCAGGAAAAGAGCCAGGGGGAAA G GA A A A A A A A A A G A GAGGAGGGGAAGGGGGGGGGGAAGAAAAAAA A GAA $A \operatorname{GCCCCCCGGGGACAAAGGGGGAAAAAAGGGGGAGGGG}$ GACCAAAACCGAAGGAAGAACAGGAAGGAGGGGGAAGBGAGG G GGAAGCCAAGAAAGATAGGAGAAAACAGGAGAGAGAAGAAG A G G G G A G G GAGGAAAGAAAAAAAGGGGGGGGGGGCAAAAAAA
 A A G G G GAA A A A A G G G G A A G GAGAAAGGAAAGGGGCCAAAGAA GAGGAAGGGGCCGGAGGAAGGAAGAGGAAAAAAGAAAGAACC $A C C G G G A G A G A G C C A A C C G G G A G G G A G A A T A G A A G G G G G G A A$ GAGGGAAACCGGAGACAAGAGGAAAAGCAAAAAGGGGAGAAA A A G A A GACGGAGGGCCGGAAAAGGAACAGGAAAGAAAAAAAA GCAGGGACAAAGGGGGAGAAAAAACCGGAGGGAAGGGGGGGA GAGGAAAAGAACGACAGGAGCCGGGGGATTAAGAACGAAGAA GAGGACAGCCGAGGAACAACGGGGAAAAGGAAAAGBAGAAGG ACGAAACCAAAAGGGGAAAAAAAAGGGGAAAAGGGGCCCCCC G G A A A A A A A A A G A A A A G G G G G GAGCCACCCGAAGAAGAAAG G A A C C A GAA A GCAAAAGGGGGCCAAGGAAAGCCGGAACAAGEG G G A A G G A G G G G G G G C C G G G A G G G A C C A A G G A A G G G G G G C C G G A G G A C A A G G G G GA G G G G G A A A G A A A GA G C C G G A A G G C C G G A A $C \subset G A A A A C G A G G G A A A C A A C A A G G A G G A A C A A C A G G G A G G A G$ A GAAAAAAGGAAAGCCGAGGAAAGGGGAAAAAGGGCGAGGGG G G A A G A A A G G G G A A G G G A A GACTAGGGGCCAAGGAGGAAA G G GAAAAAGGAAAAAAAAAAACAGCCGGGGGGGAGAAAAAAGGG AAAGAAAAAAAAAAAGGGAAGGGGGAAAGGGAGGGGACAAAA A G G G A G G G A G A A A C C A A A G G C A G G G A A G A A A G A C A A G GAAA A AAAAAAAAAAAAGGGAGAAGCAGGAAGGAGAAAAAGGGAGGA
 A G G G A A A A G G C A A G A G A G G A G A G G G G G G G G G G A G G A G G A G G G GAAGAGCAAGAGGGAGGGGGACACACGAGGAAGGGGGAACAA $G G A G A G G A G G A A A G C A A G A A G G G G G G A A G G A A G A A A G A A G A A$ AAGGAAAGGGAGCAGAGGGGCAACAAAACAAAAAAAGGAGAC

GAAAGAGAGGAAAAGGAGGGAAGGAAAGGGGGGAAGAAAACC A GAACACAAGGGAGAGGAGGAAAGGGAAGGAGAGGGAAAAAC
 A GAAAGGGCAGGGGAAGAAGGAGAGGCCGAAAGAGGAGAGAG G G G GCAAGGGAAGGAAAAAAAAGAAGAGGGGGAACCCCAGAA A G G G GAGGCCAAAGAAAAGGAAGAGAGGGAAACCGAGGAAAG G G G A A GAA A G G GCCGGAAGGAGAAGAAAAAAGAGGGAACCAA GAGAACAGGAACAGACAGACAGAAAGAAAAAAAAAAAGAGGA C C G G G G G GCCAACACCAAGGAAGGGAAAAAAACCAGAAGGGG AAGGAGGAACGGGGGGGGGGAAACAGAGGGGACCCCGGAGGG AAACGGAGAAAGAAAAAAGGAAGAGACCGGCAGGAGAGAAAG GAAGGGAAGGAAGGAAGGGGAAGGAAGGCCAAGGGGGBAACC

 AAAAGGAGAGGACAGAGGGGAGAAAAAAAAAAAAAAAAGGAG A G G GAA A G G G G G GAA A A A A A A A C C G G G G G G G G A A G GAA G G G G
 G GAA $A \operatorname{GACA} A A A A A G G C C G G A A A A A G G G G A C A A A C C G G G G A A$ A A A A A A G A A A G G G A G G A A G GAAA $A \operatorname{AGGAGGGAGGAGGGGAGAG}$ A A A A A A A A G G A A GAC CAA $A \operatorname{AGGGGGAAAGGAACAACCAAGGGG}$ G G G GAACAGGAGCCAGAGGAGAGGGAGAAGGGGAAGCCAAGG AAACCGAGAGAGACAGCAGAGAAGGACAACAGGAACAAGGGG ACAAAGAAAGAGAAAGATAAAAGGAAGGAAGGGGAAAAGAAA G G G G G G G G A A G G G G A A A A G G C C G G A A G G A A A A A A G G G G A G G G G G A A G A G G G G G GAA $A \operatorname{G} G A A G G A A A A A A A A A A G G G G A A A A G G G G$ AACCACACGGACAAGGGGAAGGGGCCAAATGGGGGAGAAAAG A A GAGAAGGGAAGAACGGGAAAAAAAGGGGGGGGGGAAAGCC AAAAGGCCAAGGGAAAGGAAGAAAGGAACCGAGGAAAAGGAA AAGGAAAAAAAAGGAAAAAAAACCACACCCAAACAAAAGGGG G G G A A A A G A A G G G G A A G G G GAA $A \operatorname{GGGAGGGGTTCCGGAAAGCC}$ A A G G G G A A C C C C G G G G G G A A A A G G G G A G T T A G G A A A A A A A $\mathcal{A} A$ A G G GACACGGGGAAGGAAAAGGAAGGCCGAGGGGAAGGAGAG A GAGCCGCGGAAGGCCAAAAAAAAGGAAGGAAGAGGCCGGGG
 A A A A G A A C G G G G A G A G G G G G A A G G C C A G A A G GAA $A$ G G G G G A A
 A A A A G G G A G G A A G GAAAAAAGAGGGGAAGCGGGAA GAAAA G $A$ A $A$
 G G A A A G A A G G G G G A A A $\mathcal{A} G G G A A G A G G A G A G G G G G C C A G A A A G$ G G G A G G G G A A G G C A G G A GAA $A \operatorname{A} G A G A G G G A C A C G A A A A A G A G G$ A GAGGGGGGGAAAGGGGAGAAATAGGTAAGAGAGCCAAGGGG G G G G A A C C A A A A G G G G A A A A GAGGAAGGGAGGGAA GAGAAG G AC G GAA A GAAGGGAAAGGAGCCCCGGGGCCCCAACCAAACAA G G GAA A G A A A G A A A A A G GCCGGAAAAAAAAGGAAAAG GAACA AACCCCGGACAAGACAAAAAAAAAAAAAGGGGGGGGTXGGGG A A A G A A C A GAGGGGAGAGAACAAGGGGAACGAAGAGGAACAG G GAAAGAAAGGGCACAAGAGAAACGAGAAACCAAAGGGCACA A GAGACAAAGAAAGGAAGACAAGGAAGGAGGAAGGAA
A GAGAAGGGAACCCCGGAAACAAAGAAAGGAAAGGGGGAGG G GACGGACAACCAGAGACACCCAGAAGGAAAGAGAACAAAAG GAAA $A \operatorname{A} A A G A G A G A G G G G C C G G T T G G G G A A G G G G G G A B A A A G$ A G G GATGGAAAAAAAGGGCCAAAACCAGAAGGGGAGAAAGAA G G G G G G G G T T A A A G A A A A A $\mathcal{A} G G G A G G A G G G G G A G A A G A A A G G$ G GAGCCGGAGGGAAAAGGATAGAGAGCCAGGCAACAGGGGGG
 A A G G G G G A A A G G A G G G A G G G G G G G G G G A C A G A A G C C A A A G G A A G GA $\operatorname{A} A A A \operatorname{A} A G G G A G A G A A G G A G G G C C G G G G A A A A A A A A G G A A$ A A GAAACCAAGAAAGGGGAAAAGGCAGAGAGACCAAGGAAGG G G GAGCGGAGAAGGGGAAAAGAAGGGAAGGGAAAGGGAAGAG

GAGATTGAAAGAGAAATTGGGGGGGGAGGGGGAAAAAGAAGA
 C A G G G G A A A A G G A A A G A A A A G GACGGAAGGCAGAAAGGAAAA GACCCCGGAAAAAAGAAGGAAGAAGGAGGAGAAAGAAGATGG GAGGACGAGGAGAGGGCCAGGAGAAAAAAAATAGGGAGAAAA $A G C C G G C G C C G G G G G G G G G A G A G G G G G G G G A G C C A A A A A G A A$ C C G G A A A A A A C C G G G G A G G GA $\mathcal{A} G G G G A A A A G A A G A G A G A A T X$ GGGAACAAGAACGAGAGAGGAGAGAAAACCACAAAGAGAAGA C C A A A G G A G GA GAA $A \operatorname{GCC} C A A C A A G G G A A C G G G C C G A G G C C G G$ $C \subset C C A G A G G G A A A A A G A A A A A C A A A G A A G G A G G G G A A G A C G G$ GAGACAGAAGAGCAGACCCACCTTCCGGAAGAAAAGCCAAAG AACGAGGAAGGACCAAACAGAGAAGGCCACCAGAGGGAAACC A G G G G A G GAGGGCCAGACAAAAGGCCGGAAGGCCCAAAGAGG AAGGAGGGAGGAACAACCAAAGATAAAGAGAAGAAAAAACAA A G GAGAAGGGACACAGGGCCCAAAAGGAGGGGGGAACAAACC G GCAGGAGGGAGGGAAAGGAAACCAAGGGGGGGGGGAAAGAA G GAAAAAAAAGGGGGGAAGGAAAAAAGGAAAAAAAAAAGGTT AAAAAACCGGGAGGAAAGGAGGCCAAAAAAAAGAAAAAAAAA GAAAAAAATTAAAGGAGAGGAAGAAAGGAGAGAAAATAGGAG A A A A A G G G A A A A A G G G A A A ACCTACCGGGCAAACAC GAAGAG AAAAGGGGCATTGAGGAACAAAGGAGCCCAAGGGGGAGAAAC GAGAGAGAGACCAAAACAAGGGAAAAAGGACAGGAAGGAGGA GAGAAGCCAAGGAAACAAGGCCAAAAGGAAAAGGGGBACCGG G GAGAAGGAAGAAAAAGGCACCAAAAAACCGAGGGGGGGGGA $A \subset A G G G G G C A G G G G A A A A G G A A A A G G G A G A A C G A C C A A A G G G$ G G G G A A C C G G G G G G G GC C A G G G A A GAGAGGAA GAAAAAAC G $A$ A ATTCCGGAAGGGGAGAGGGGGACGGGGAAAAGGAACAAAGB G G G G A C A A G G G GA G G G A A GAGAAAGAGGACCCAAAGGGAAAA G G G G G G TACCAAGGAATTGGAAGAAAAAGGCCAAAAAGAAAA A A A A A A A A G GAAAGAAAACCAGGGAGGGAGAGGGAAAAAAAA G GAGGGCAGGAGAGAAGGGGGGGAGGGGAAGGCCAAAA G GAAA GAGAAAACGGCAGGGGGGACAGGGGGGGGGGGGGAGGGGGGA A A A A G G G G A C G G G G G G G A GAGGGAGACCAAAGGGAAAAAAAA G GAG $\mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAGAAGAAGGAAGGACACAAGAAAGGAA GGCAACGGAACCGGAAAAGAGAGAAAAAACAACCGACGAAAA $G G A A G A G G G A G G A G A G C C G G A A G G A A G G A A G A A A A A G G A A G A$ A A G GACAGGGATAAAAGGAGGGAAAGAAGGCCAAAAGAAAGA G GAAGAGGCCGAGAGGAGAGCACCGGACGGAGAAGGAAAGAA A A A G G A A A A A GAGGAC G G G G G G GCCAAGGCAAGACAA GGGGCC G G G G G GAAA A G A A A GAA A G GAGAGCCGAGAGGGGACAA G GAA CAGGAGGGGGAAAAGCAGGGAAGGAACCAAGAGAAAGAAGAG C C G G G A A GCA G GA GACAAGCAGGGAGGAAAAAAGAGAGAAAG G GAAGGAAAAAGGGAGGGAACCGGAACAGGAAACAAAAAAAA CAGGCCAAAAGAACAGAAGACCACAAACGGGAGGGACCGGGG G G G G G G A A A G A GACAGAGGAAAAAAAAAGGGGACGAAA G GA G A G A A A A G G A G A A C GAAGGCCAGAAGGAAAAGGGGAAAACAAA G G G G A A A A G GAAAA A G G GAAA A A A A A A A G GAGGGGGAGA G G G G A A G G G G G A A A A G G G G G A A GAA $A \operatorname{AGGGA} G G G G A A G G G G A A A A A G$ G G GACAGGAAAGGAAGACGCGAAGGAGGCCGAGAAAGGGGCC G A A A G A A A A A A A G G C C GAGGACGGAAAAGAAGAC GAGAAACC A A G G G GCAG G A A G G G G G G G A A G A C C C G G G G G G A G G G G A A G A $G$ G GAAGGAAGGCCGAAAAACAAAAAAGGGAGAGCAAACCAAAC G G A A A G A A A A T A A A A G G A A G A A G A C A A GAGGGGACCAA GAA G AAGGAAAAGAAACACAGGGGAGACCCACGGAAAAGGGAAGGG $A A C \subset A A G G G G A G A A G G G G A A A G A A G G A A A G A A A A A A A G A A A G$ G G G G A A A A C C A A G C G G G A A A G GCCAGGAAAAAGAAGGGCC GA A A G G A A A A A A G G A A A G A G G G G GAGCCGGAAGGGGAGAC GAAC A G G GCCAA $C$ A $A G G G A A A G G A G A G G A A A C C G C A A A A A A G G A C G G$ AGAGAAGGGACAAAAGGGCGAAGGGGAGAACCGGGGAGAGGA

A GAAAGCCAACCCCAGGGGGGGAGGGGAAGAGGGAGAAGGCC G G G GAGGGAACCAGGGGAAAGACAAAAAAAAAGAAGAAAA GA GAGAAACAAACCGGCAAAGGGGAAAGGGAGAAAAGGCAAACC G GAAAAGAGAAACAAAAACAGAGAGAAGAAACAAGGAAAGCG A A G GAAAGAGACGAAGAGAGGGAGAGGGGGGGGGCAGAAAGA GACACCGGCCAGAAGGCAGAGGCCAGATAAAAGAGGCAAAAG GAGGAGCCAAGGGGCCGGGGAAGGGGGGGGGGGGAAAACGCC G GAACCAGCCAAGGACAAGGGAGGAAAAAGAAACAGGAAAAB A GAG G G C A G G A A C C C C G G A G C C A A G G G G G G G G C C G G G A G G G A G GAAAAAAACAGAAGGCCGAAGAAGGAAAAGGAGAAGGGGGG A A A A A A A A CAA $A C A A C G G G G A G G G C C G C G G G A A A T A A G A A G A$ GA $A \operatorname{GGG} \operatorname{GAA} A G G G A A G G A A A A G G G G A A G G A A G G G G A C A A A A A A$ GAGGGGCCAACCGGCCCGAAGGGAGGGGGGAAGGGGGAAGA$G$ GAGAAGAAGGGGGGGAAAGAAAGGAAAAAACCAATTAAAACC $C \subset A A A G G G G A G G A C G G A A A A A A A A G G A A C C G G A A A A C C G G G G$ $C \subset A A C C A A A A A A G G A A G A G G G G C C G G G A G G C C A C C A C C A G A A$ A A GA $\operatorname{A} G A A C C A G G A A G G G G A A A A A G G A A G G A A C C A G G G A G B A$ GAAAGAGAAGAGGACAGAGGACCCGGAAAAAGCCAGGAAACC $G G A A T T A A A A A A G G G G G A A A G A A A G G A A G G C C G G G G A A T A C A$
 G G G GAGAAAAAAGGCCAGAGACCCGGAAGGAAGAAAAGGAAA
 $G G C C A A G G A A G G A A G G A A G G G G A A G G G G A A A A G G G G G G A G A A$ G G G GCC G G A A A A A A C C G G A A G G G G G G A A G G T T G G G G G G G G A A A A C C G G G G A A A A G G G GAAC CAA A G G G G GCCCCCCGGAAAA GA GAAAAAGCAAAACCAAAAGGGGGGAAGGCCGGGGGGAACCBG AACCCCCCGGGGAAAAAAGGAAAAAAGGAAGGGGAAAAAAGG G GAAGGCCAACCAGAAGGGAAGAAAAGAAGCAAAGACCAGAC
 AAAAGGAAAGGGGGAGAGGAGAGAGGGAGGAACCGGAAAGAA C CAA $A \operatorname{GGGAAAAAAGAAAGCCGGAAAAAAACGGACGGAGAGAG}$ AA $A G G G A G A A C C G G G G A G G G G G G G G G A A A A A A A A T T A A C C G G$ A A G G A A G G G A G G A C G G G A G G G G A G GA GAAAA A A A A A G G C C G A A A G GAGGGGGAGGGAAGGAAGGACAAAAAACGGGAGCCAGAA G G G GCCGGAGAAGGCCGGAAGGAAAGAAACGAGGGAAAAAAA A G A C A G G G G G A CA $A \operatorname{A} A G G G A A A A G A G G A A A A A A G G G G G G G G A A$ $C C G G A A G A A G A A C A A G G G A A G G G G A A C C A A G G A A A A G G G G A A$ G GAA A A G GAGGGAGAGGAGAAGGGAGAACAGGAAAGAAGAAG A A A A G A G A GAGGGGGGAAGGGAAAAAGGGGAGGGGGABACAA
 AA $A G A A A G A G A C G G A G G G A C A G G A A A G G A A A A G G A G G G A G G G$ GAAAAACCACGGAGGGGGAAAACCCAAAAGAAAGAAGGAGAG GAGGGGGAGAAGACAGAAGAGACCCCAAGAGACCAGACGGAA A A G G A G G A GAG G G A C A A A A G G G G G A GAC GAGGAA G GAA G GA G G G G G G G G A A A A A A G A C G G G GA G A C G GAAC CA A A G GAA A A G G G A C G G G G G G A A A G C C G G A G G G G G G A A A A A A A A G G GAGCAAAAA G G G G G A T T A G G A G A G G A A G G G G C C A A A A A A A A A A G G G G A G G G GAAAGGGGGGGGAAGGAAGGCCAAGGGGCCAAGGCCG
$G C \subset A A G G G G A A A G C C A A G G A A G G A A G G G A A A A C A A G A C C G A$ G G GAACAAGGGGGAAAAAACAGAGAAAAAAAAGAAAGBAGCC A G GAA A G G A A A CAGAGGACCAAAAAACCGGAAAAAACAAAGG AA GAAGAAGGCCAAGCAAAGAAAGGAAAAAAAAAGAAAAA GA A GAA A A GACAGAAGAGGAGGGAAAGGGGACAAGGAAAAAAAA AAAAAAAAGGAACCGGAAAAAGCCAGAACCGAGGGGGAGAAA G GAGGAAGAAGGAAAGGAGAAGGAGAAAGAACGGAAAAAAAG GAGGCCAAGAAAGGGAAAGGGGAAAAAAAGGGGGGACGAAAA
 G G G G G GAGAGGAGGGAAAGGACAAAAAGGAAAACAACA GACA AAAGAAAGGGGGAGGGCCAAAAGGGGCCGAAAGGAACAAAAG

A A A GAGGGAAAAGGAGAAAAGGGAGAGACAAAAAGGCCGGCC
 G GAGGGAGAAGGGACCACGGAGGAGAAGAGAAAGGGGGACAA A A G G GAAAGGGGGGAACCGGAGAGGGAGAAGGCCGGAAGAAA A A A A GAGGGGGGCCGGGGAAGGGGAACCAGGGGGGGAGAGAA G G A A A A C CAACCCCAGGGGGGGAAAAGGGGAAAAGGGGAAAA A A G G A A G G G G G G G A G G A A A G GAA $A \operatorname{AGAGAACAACCGGGGAAAG}$ $A C A G G A G A A G G A G A G G G G A A A A G A G G A G C C G G G C A A G G A G A A$ A A G G G G A A A A G G G G A A C C A A G G G G G G G G G G A A G G G G A A G G A G G GAAAAAGCCAAAAGGGGGGCCAGGGAGAGGAGGAAAAAAAC $A C C C G G A G G G A G A G A G A A G G C C A G G G G G C C G G G G A G G A A A A A$ G GAGGGGGGGGGGAGAAAGGGGAACAGGAGGGAAAAAGAGGA
 G G G GC C C C C A A A G A A G GACA $A \operatorname{A} G A C A A G A G G G G G A A A G G A G A G$ $C \subset G G G G G G A A A A C C G G A A A A C C G G G G C C A A A A A A G G G G T T G G$ G G G G G GCC G G G GCCAC G GAAAAGGACAAAA GAAACCAGGGGG $G G A C A A G A A A G G G G G G G G A A G G A A A A C C G G A A A A G G A A G G G G$ AAAAGGCCAAAAGGAAAGGGGGAGAAACGGAAACGAAGAGGG $A G G A A G A C G A G G G A G G G G A A G G A G G A C C G A G G G G G G A G A A A G$ G G A A C C A C G G G GAACCGGGGGGGGAAAAAAAAACGGAAAAAA A AAACACCAGAAACGGGGAAGGGGGGCCAGACAAAAGGAGCC GAACGAGAAGAAAACCGGGGCCGAGAGACCGGAAAAACAAAA C C A GAGGAAAGGGGAAGGGGCAGGAAAGGAAAAGGAAAGGGA A A G G A G G G GA $A \operatorname{GA} A G \operatorname{GA} A T A G G G G G A A G A A A G G A A G G C A A A G G$ G G G GAAAA $A \operatorname{A} A C A A G G C C G A G G A A C C A A C C A G G G A G G G A A G A$
 A A A A GA A G G GACAGGGAAGGGGTTAAACAGGACAAAGGGGAG $A G A G G A A A G G G G G G G A A A A G G G A G G G C A G G A A G A A G G G A C G G$ A GAGGGGGAAGGCCCCAAAAAACCAAGGGGCCAAACAAAGCC AAGGACGGCCAAAACCGGGGCACAGGAGAAGGGGAAGGGGGG C C A TA GAA G GAAAACAAGAAAGGGACAAGGAAAGCCAACAGBG GAACGGAGAAAAAAGAGGGACAGGAAAGGAGGGGGGAAAGAG A A A A A GAGAAGAAGAAAGGGAACCAAGGGGAGAAAAGABAAA G GAACCCCCCGGAAACACAGAGAGAAGGAGAGGGGGAAAA GA ACGGAAAGAAAAAGAAAAAACCGGAAGGAAAGCGAGGAAAAG A $G \operatorname{G} G A G G G G G A A G G G G C C G G A A G G G G A A A A A A G G G G G A A A A G$
 AA $A G A A G G G G A A C A G G A A A A G A G G A G G G A G G A A A C C G B A A A A$ A A A A A A G A GAA A G G C C G G A A A GAGGGAAGGGAGGGGTAAAAG $A G G G G A A G A G G A G C G A A G G G A G G G A A G A A G A G G G G G G G G G G G$ G GCAG GCAAGAAGGAAAAGGGGGGAACAAAGGAAGAAAGAGA
 G GAAAAAAGGAAAAGGAGGGGGCCGGGGAAGGGACCAAGAAA C CAA $A \operatorname{GAA} \subset A A A G A G G G G G G A A G G A A A G G G G A A A G A A A A A A A$ A G G G A A A A C C G GAAAAAAGGAAGAGGGAGGGGGGAGACAAAA A GAGAAAAAAGAGGGAAGGGGAAAACAAAAGGGGAAGAAAAA G G G G G G G G A A A CAC G GCC G GCC G GAAGAAGCCGGC CA G G G A G A G G G G GCCGGAGGAGGAGAAGGAAGAGGGGGGAAGAAAAAAA A A G G G G G G G G G G G G A A A GA A A GAGAGGAAGGAAGGGAAAAGG
 G GAAGGCCAGGGCAGAGGAAGGACGGGAAGGAAGGAGAAGAG GAAAAAAAAGGGGGGAAGGGAAAAAACCCAGAAAAAGAAGAG A GAA A G G GAGGGAAGAACCCACAAAAAAGAAAGGCCAACC GA GAAAAGAAGGAGGGCCGAAGGGACGGGGGGGGGGAAGAAGAG AAGGCCGCAAGAATGGAAAGCAAAGAAAAGGGAAAAAAAAAA A A A G A G G G A A G G G G A C G C G G A A A C G G A A A A A A G G A A G G A A G G AAAAGGGGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGCC A A G G A G A A G G C C G G A A G A G G C C A A G A G G G G G A G G G A G G G G G A GAAGGGACGGGAGGGGAGAGAGGGAAGGGGAAGGAGCCGGGG

G G G G G G A G G G A A A G A C A G GAGGGGCCGGGGGGGGACCCCCCC GAGGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAAGGGAG C CAAACGGCCGAGAGGGAGGCCGGGAAGGAGGCCAGGGGGAC TAGGAAGGAACCGGCCAAAAGAAAAAGAGGAAAGAAGAAGAG AAAAAAAAACAGAGCCGGAAAAAAAAGGGGAGGGGGGGAGAG G G G G A A A G G G A A C A GAGGGGACGAAGAGGGAAGAAGAAAGAA A G G G A A A A A A G G G G G G A A A GAAGGGGAGGAAC GACACAGATA C CAA A G TA $A \operatorname{GGGGAAAAAAGGGGGGGGAAAATAGAAAGAAGAG}$ G G G A T TCCGGAAAGAAAAAACCCCAAAGGGAGAAGGCACACC AGGGGACCGACCCAGGAGAAGAGGTTCCAAAAGAGGCAGGGG AAAAAACCGGGGAGCCGGAGAAAACCGGGGGGGGAGGAAAAA GAAC $A \operatorname{A} G A C A G G G G G G G C C A A G G A A G G C C C C A G A A C C A G G A G G$ G GAA A G G G A A G G G G A A G GCCC CAAGGGAAAAAGAA GAAAA G G A A G G G G G G A G A G A A G G A A A A A G G G A G A A A A A C A A GAA A A G G G A

 G G G A A A G G A A G GAGGAAGAGGGGGAAAAATAGGGGGACAAAA G G A A A A A A A A G G T T A A A A G G G A G G A A G G G G CAAAAC G GA GA C G G G G G G T TAAAAAAAGGGACGAACCAAGAACCAAGCCCAAAA T T G A A G G G G A A T A A C C G G C C A A A A A G G G A GAGGGGG GA GA G A GAAGGGGGGGAAAAAAGAAAGGAACACCGGAAAGGGGGAAGA G GCCGGCGAAAGGGGGCAAAAAAAGCGGAAGGGGGAGGAAAC G GAAAGAGAAAAGGGGAGAAGGCCGGAGAAAGAGGAAGAAAA A A A A G G G G A GCCGGAAAAGGCCAGAAACGGGGAAAAGGAGAG A A A A G G G G A A G G A A A G G A A GA G G A A G G G A A G G A A C C G G G G G G A A GA $\operatorname{A}$ GAAAACAGAGAGGGGGAAGACAGAAAACCGGGAGGGG A G G G G G G G A A A A A A A A A A A G G G G G G GA GAAA A C C G GAAAA G G A A G GCCAAAACCGGGGGGGGGGGGCCAAAAAAGGGGGGGGGG G G A A A A G GAGAGGGAACCCCAAAAAGGGAGAGGGAAAAAACC AACAAACCGGCAAAGGGGCCGGAAGGAGGAGAGGGGAAAAGA A G G G G G C C A G A A G G G G A A G G A A G G A A G G A A A A A A A A A A A A G G GAGGGAGACCGGAAGAAGGAGAAGAGAAGGCCGAAGGGAGGG
 AAACGGGGCCAACAGGGGCCCCGAAAGGAAGGAAAAGAAAAG GAAGAAAAGGAAAAGGGGAAAGGAGGAAGGGGAACCCAAACAC A A C C A A A A $\mathcal{A} G G G G A G G G G G A G G G G G G G A G A A G C C G A A A C A A A$ C C G GCACCAAAAGGAAGGAAGGGGAGCCGGGGGAGGGGGGGC A G GAACAGAGAGAGGAGGAAAGAAAGGGGAAAGGCCGAAGGG G G G A A A G A G A G GAAAA A G G G GACAGAGCCAAGAAGGAAAAGAG
 G GAAA AAAGGGAGAAGAAGAGGCCGAGACAGGGAGCCCCGGG C C G A C A A A A G A G G G G G G G A A A G A G A A A A C CA A A C A G G G A A G G A GAAGGGGGAAAGAAAGAAAAAAGCCGGCCAAAAGGAAGGCC
 A A C A A A G G GAA $A \subset C A A G G A A A G G G G G G G G G G G G G A G G G A A A G$ A G A A A A G G A A A G A A GAAAAA A GAAAAACGGGGGGAAGGAAGG A G G G G A G G G G G A G G G G A G A A G G A A A A A A A G A GA GAAA A A A C C AAAGGGGGAGGGAGGGACAAAAAAACAGCCGGGGAGA
A G G G G GAAAAAGAGAAAAAAAGAAGGGAAAACCGGAAGAAA CAACGAGGAGGAAGGCAACCAGGAGAGGCAGGGAAAAGAGAA G GAA A GCC C G A A A G A A G G G G G G G G G G G G A A A A A A A A A A G G G A A A G G A A G G A A G GA A A A A G GAGGGGGGGAAAGGGGGAAAAAAA G G G A G G G G C C C C A C G A G G C C A G A G G G G G C C A A G A A G G A A A G G AAGACCAGAGGAAAGAGGGGAGAGAACCGAAGGGAAAAACAG A GAG $A \operatorname{G} A A A G A C G G A G A G A G A G G G A G A A A A A A G G G G G G A G A A$ C C G A G A G G G G A C A G G A A G G G G G C C G G A A GA GAA A T TA G G G G G GAGGAAGGGGAACCGGAAAGAAAAGAGAGGAAGGAAAAAAAG A G A A C C A A G G A A A A G G G G G G G GAC G GAACCCCGGGAAGAAA G CAAA $A \operatorname{G} G A A G A G A A A G A A A A G G A A G G A A G G G A A A G G G G G G A T$

A GAGGACCGGGGGACGAGAGGGAAGGGGAAGAAGGAGGAGAA $A C G G A A G G A A G G G G G G A G G G A A A A G G G A C C G C G A G G G G A G G G$ A A A C A G G GAG $A \operatorname{GGGGCCAGACGGGGAAAGGAGGAAAAGGGGGA}$ C CAGGACCAAAGACGGACGAGGAAAGGAAAGGGGGGAGAAGG AAGGGGAACCGGAGGGGAAGAAAAGGAGGGAAGAAAAAACAG
 G GAGCAAGCAGGCCGAGAAGAGGGCAGAACAGGGAAAGAGAG G G G GCAAGGAAAGAGAAAGGGGGAGACCAAGGAGAGCAGAAC
 GGCCAAAGGGAGAGGGAGGAGGGGGGAAAGGGGGGGGAAAAA A A A A A A A A G G G G G G A G G G A A A GAGGGGAACGGAGGAGACAAA

 A A A A G GCCGGAACCGGCAAAAGAAGGGGACGGCAGAGGGGGG A A A GACAGACAGAGAAAGGAGGAGGGGAAAAAAAGGAATTCC A G GA $\operatorname{G}$ GAGAAAAAAAAGGAAGAAATTAAAAGGGGGGGGGGCC T TCCAGAAAAGGAAAAAAAAGGGAACGAGAGAAAGEAGAAGG GAAACAGAGGCCGGGGAACCAGAAAGGGGGACAAGGGGGGAG AGGAAGGAAGCAAAGGAAGGAGAAAGAGGGAAAAAACCACAA $A C C C A G A A G G A G G G C A G G G A G C G G A A A A G G A A A A A G G A G A A G$ A A GAGGAAGGAGGGGGAAAAAATTAACCGGAAGGGGGAAGAA AAAGGACCCCGGCAAGAAAGGGGGAAACGAAGCGACAACC GA ACAA GAAAAAAACAAAGAAGGGGGAAAAGGAGAAGGGGCCGG A C A G A A A G T T G A A A G G G G G G A G A C G G G G G G A A G G A G G A G G A A
 AAAAGGCAAAAGGAGAAAAAAAAAGGAGACAGGAGGAACCGG C C A A A A A A A A C CCCAAAAAAACAATAAGGACAAACCAGAAGG G GAGGGGAAGGGGGAGCAGGAAAAGGCCAACCCCAAGGGGGG G G G G A A A A A A A A G G G CAAAAA A A A A GAA GA GAAA G G G G GA GA GAAAGACCAACCAAGGAAGGGGAAGGAGGAAAAAGGAAAAAA G G G A G G G A G G G A A G G G G A G C G G G G C G A A G G A A A A A G G G G G A A $C \subset G G G G G G C C A A G G A A A A C C G G A A A A A A A A C C C C G G A A A A A G$ A A A A A A A A G GCCAA $C$ G $\operatorname{CAA} A G G A A G G G A C G G A A A A A G G A A G G A$ G GAA $A \operatorname{GAAA} A G G G A A G G G G A A A A G G G G A G G A G G G G A A G A G G G G$ G G A A A A A A A A A G G G G G A A G G CAA A A A G GACAGAGA GAA G GA G A A A CAA A G G GAAGGAAGGAAAAAAGGCCAGAAGGAACGGGCA A G G GAGGAAAAAAACCAAGGAAGGAGGGAAGGGGAAAAGGGG AACCGGCCAAGGGGAAGGGGGGAAGAAGAAGGCCGGGGAAGA G G A A G G G G A A A A G A GAA A G G G G G G A GAGAGAGATGAAAACAC A GCCGAGAAGCCAAGAAAAAAGGAGGAAAACAAAGGGAGGAA $G G A G G G C G G A A G A A A A A G G G G G A G A G G G G A G G G G A C A G C C G G$ G G G G A GCCAA G GCCAGAAAAAGAAAGGGCCAAGGGGAAAAAG A GAA A G G GACAAAAAGAGGGAAGGGGAAGGCCGGACGCCAAG A G G G G G G G A G G G A A A A G G G G G A A G A A A G G G G G A A G G A G C G A A G G GACCAGGAAAGGGAAAGGTTCACAGAAGAGGGGGAGAAAA GAGGGGGGAACCAAGGGGAAAAAGAAAGAAAAAAAAACAAGG $G G A A C C A A A C A A A G G A A A A A G G A C A A A A C C A A A A C C A C G G G G$ A A G G A A G G G GAAAAGGCCAAGGAGAGAAGAAAAACCAGCAGA GAAGGGGGGAAGGGGGGGGGGAAAGAAAGGCCAAGGCAAAGA
 A G A A A A G A A A G GCCAAA A GAGGAGTTGGGGAAGGAGAACACC $A G C C A A A A A A A A C C C C G G G G G G G G G G G A G G G A G G G G A G A G A G$ A GCCCCGGGACAA GAGAGGGAACCCAAGAGGGGAGGCCGGGG AGGGCCGGAGGAAACCGGACAACCGGGGAACCAAAGCCAGAG G G G GAGCCAAGAGAAGGAAAAGAGAAGGGGAAACAAGAAAAG G G A G A G C A A A C A G G A A GAGGAAAAGGTTCCGGGGCCCCABAA
 GAAGGGGGAAGGAGGAAAAAGGGAAAGGAGGAGGGAAAAAAC $C C G G G A G G G G A G G G A G G A A G G G G G A G A A A G A A G A T A G A A G A A$

GAAAAGGGAAAAAGGAGGAGCCACAAGGAGACCAGAGAGAAC G G G G G G A A A A CA $A \operatorname{GAAAAGAAAAGGAAAAGAAGAAGGAGAGAA}$ AACCGAGGAGCAGGGGCCGAAAGGAAAGAAGGCAACAAAGGG A A A C A GAAA A A G G GAGGGGGGAGGGGGACCACAAAGGGAGCA GAA A A GAA A A G G G G G G G G G GAACCGGAACCGGGGGGATAAAA GAGGGGGGACACGGAAAAGAAGAAAAGGGGAAGGAAAAAAAA G G A A A A A A A A A A A A A A A A A A AACCAAAAGGCCGGAAGAAAG G C CAACCGGGGGGGGGGAAGGAACCGGAAGGAAAAAAAACCAA G G A A A A A A A A G GAACCAAAAGGAAAAGGAAAAGGAAGGACAA GGCCAAAAAAGGAAGAGGAAGGGGGGGGGGGGAAAAAAGGCC A A G GAA A GAAAAAAGGAACCGGGAGGAAGGAAGGAAAAAGCC C C G G G A A A G G G A A A G G GACAAAAACCGGGGCAAGAAAGAGAA G G A A G G G G A A G G G G G G CA C C A A G G G G GAAA A GAA A A G G A A G C C A G G G G A G GCC G G G G C C G G A GAAAAACAAAAGGGGGGGGGAA GA G GAGAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{~A} C A \operatorname{A} A A A G G G G A A G G A G A G A A G G A G A G G A$ G G G GAACC GAA A A GAGAAGGGGGGGGAAAGGGGGAAAAAAGA
 G G G A A G G G G G G G G G A G G G G G A A A A A A A A G GCC G GA GAAAA A A $G G A A A A G G G G G G A A G G G G C C G G G G A A A A C C G G A A A G G A A G C C$ A A A A G GAA $A \operatorname{GAA} A G \operatorname{A} A A A G G G G A A G G A A A A A G G A A A A A G A G G G$ G GAAAGGACCAGGGCAAAGGAATAAGGGAGGAGGGGGGGGGG C CAAAA A G G G G GCCAAAACCGGAAGGAAAGAAAAGGGGCAAA A A A G A G G G G G G G A G C C C C A G G A G G A A G G G G G G G G G G A A G G G G
 G GCCAAAGAGAAAGAAGGAAAACCAACCGAGGGGCCAAAAAG GAGGAGGGTTAGAGCCAACAACGGAGAAAAGGAGGAAGAGGG G GAAAACCGGGGAAAGGGAACCAAGGGAGGCAGAGGAGAAAG
 G G G A A GCC $C$ G G G GAGAGGGGGGAGGGGAACAGAAGGGCAGAAT $A C A A G G G G C C G A G G A C A G G G G A G G G G A A G G A G A A A A G A A A B A$ A A G G A A A A A GAAGGCCAAGGAAAAGGAGGGTTGAAACAAABG
 AACCAGAGAAAAAAGGAGAAGGAAAAGGACGGAACAGAAGGG
 A A C G G G A A G G A A A A T T CAA $A \operatorname{AGGGGAACCGCAGGAGACAGAGA}$ G G A G G G A G G G G G G G A A A A G A A A C C A A G G A A G G A A G G A A G G C C
 G GAAGGAAGACCCCGGGGAAGGGAGGCAAAGGAACCAAAAAA G G A A G GCCGGGAAGCCAGAGCCAAGAAAGAAGAGCCAAAAAA
 AAAGAGGGGGGAGAAAAAGGAAGGAAAGGGAAACCCAAAAAG
 AGGGGGAGGAGAATAGGGAAGGGGTTGGCCAAAAGAGAGACA

 G G G G G G G G G G G G G G A A $\mathcal{G} G G G G G G G A A G G A A G A G A A G G A B A A G$ GAAGACGAGAGAAAAAGGAAGGAAAAAAGAAAAAAAGGCCCA GGAACCACGAAGACGGAGGGGCCAAGAAGGCCAGCGA
AACGAGGGAGAGGAGAGGGCCGGAGAAAGACAAGAGGGGAC G GAGGGCCAGAAGGGAAGAGGAGGGAGGAGGGAAGGCAAAAA AACAGAGGAAGGAGGGAGAGAAAGAGAGGAAGAAGAAAAGAA
 G G A G A GCCAAAAAAGAAAAACAAAGGAGAAAGCACACCAGAG AAGGAAAAGAGGCAAAGGAACAGGGAGGAACCGAGAGAAGAG GAAAAGAGCCGGGGAAGGAAGGAAAAAAGGGGCCAAAAAAAA G G G GAAGGCCGGAAGGCCGGAAGGAAGGAAAAAGAGGGGAAB A GAGGAAGAAGGGGGAGGAAAGAAGGAAAGGAAGGAGACCAA GACCGGCCAAGGGAGGCCAAAGGGAGAAGGGGGGAAGGAGGA AAAGGGAGGCAAAAGAGGGAAAACAAGGAGGGAGGGGCAGAG

A G G GAA $A \operatorname{GGGA} A A G A A A A G G G G C C A A A A A A C A A G G G A A G G G G$ $A \subset A A G G A G G G A G G A G G A A G A G G G G A A A A G A G A G A G G G G G G G A$ G GAA A GAACCAGGGAAAGGGGGGAGGACAAGACCACGAGAAA A G G G G GAAAAGGAGAAAAAGAAAAAAAGAAGGAACAAAACAC G GAAAGGGAGGGAGACCAAAAAGAGGAGCAGAAAACACAAGA G GAAACGGGAAAAGGGAGGACAGAGAAGGGAGGGAGGAAAGG A A C C G G A A G G G G A A G G G G A G A G G G A G G A G G A G G G G G A G C C A AAAA $A$ A A A $\mathcal{A} A G G A G G C C G G G G G G G G A A G G A G A A A A A G G G G G G G$ GAGGGGAAGGGGAAGGAAAAGAAGGGGAGGGAAAAGAAAGAA CAAAGGGGGAGACCACGGGAAACACCAAAAAGAGAAAAAAGA GAGGGAAGAAGGGGAAAAGAAAGGAGTTATAGCGGGGGCCGA G G A A G GCCAAAAAACCGGACGGGAGGGACCGAAGAAAGAGCA G G A A A ACCAAAACCGGAAGAAGGACCAGCCAAAAGGBAAAAG AC G G G A G G CA G G G A A C GAC C G A A GAAGAAGAGGGAAAA G G T T G GAACCAAAGAAAAAAAGAAAAAAGGAAAGGAAACCAAGAAA G GAA A G G G G G GAGGGACAGAACAAAAAAGAAGAGGGAGAAAA A A GA G A A A GACAGAAGCCAAGAAGGAGAGAACGGAAGGGGGG C CAGGGAAAAAAATGGAGCCAAAGGGCAAAAACCBGCAGGAA A GCA GAAAGAGAAGCAAACAGAGAAGGGGGAGACAGAGATTT A A A A A A G GCC G GAAA A G G G GAA T TAAAACGGAGGGGGGAGAA GAGAGGTAAGAACCGAAGACGAGGCCGAAGAAGAGGGCGAGG G GAA $A \operatorname{GAA} A C G A A G G G A A G G A A G A G G A A A G A G A A G G A A G G G G$ A A A A GACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGAAA A GAGCCACGGAAGGAAGGAACCAGAAGAGAACGCAAAAAAGG A A A A A A A A A A A A A A GAGAGAAAAAGAAGAGAGGGAAAA G GAGG TACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAAA A A G GAA A G GAA A A GAAGGAACCGGAAAACCGAGGGGGCAAAA
 A A A A G GAA A G A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G G A A G G G A A G G A G G A A A G G G GAAAAGGGGGGAACCAACCA GAGAC $G G C A G C G A C C G G A G A A G A G G C G G G A C G A G G G G A A A A A G G G G G$ $C \subset C C A A C A A G A A A A C C G G A A A A G A A G G G G G G G C C A A G G G A A G$ GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACCAACA GAAA A A GAAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A A G A G A A G C X A G A G G G A G A A G G A A C A$ A A G A A GA $A \operatorname{G} G \mathrm{G} A C \subset A G A C G A G G G A G G G G G G A G G A G C A C A C A G$ GAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAGAAAAGAG GAAGGGAAGGAAAAGGCATACACCAAAACCTAGGGGAAAAGA CAGGAAGAGGGGGGAAGGGACCAAGGGGGGCCAAAACAAAGA C C G GAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGAAAC G G A A G G G A G G A A G G G G G G G G A G C C G G G G G G A C A A A A A GA G G G C G GAAAAAAGAAAAATAAAGGGAAGGCAAATTAAAAAAAACCAA A A A A A A G A A A CCGACCAAAAAGGGGGAAAGAAAAGAAACCGG A GAGAA ATGGAAGAGGACGCACAAAGGAAGTACAAAGGAATT A A A C A ACCAAA A A A GAA GAGAAGGGGAAAAGGAAAACCGGGG A A A A G G G G G G A A G G A A C C G G G G A A G G G G A A G G A A A A C C A G C A A A G G A GAA A G G GAGACAGGACCAGGAAAAACCGAGGGGAAAA G G TAAA A A GACACATAAAAAGAGGAAAAAAAACCAAAAAAAA G GAACCAAGAAACCCACCCAAGCCGGGAAGGAATAAAAGGGA AAAAGGGGAAAAGGAAGAGGCCCCGGGGGGAAGGAAAAAAGA
 G GAACCCGGGCCAAGGGGGGGAAAAGGGGGAGAGAGAAAGAG AA GAAAAACCAACCGGGGAAGGAGGAATGAGACAAAGGAGAA A G G G G GCCACAGAGAGGGAAAAAAAAAAAAAGAAAAGGAGAA G GAAAAAGACGGAAAAGGAAAGAAAAGGAAAAAAAGAAAGGG C C A A A A G G A A G A A G G G G A A G G A GAGGCCCAGGAAA GAA G G G G A A G A GAGGGAAGGGGACCAAGGAGAAGGGAGGAAAGGGAAAA A A GAGAAGGGAACCCCGGGGAGCCAGAGGGAAAAGGCAAAGB GA $A \operatorname{GGGA} A A G A C G G G G C C C C A A A C A G G G A A A G G A A G G A A G A C$ GAGGAAAGAACCAAAGTTAAGGGGGAAAGGGGAGCCAGAGAA

AAGAAAGAGGAACCAGGGACGGGGGGAAAGAAAAGGAACCGG A G A A A A G A A GAA $\operatorname{A} A A A C A A A G A A G G A G G A G A A C A G A G G A A C A$ A A A A A CA $\operatorname{A} G \mathrm{G}$ GAAAGGGACGAAAGGGGACAAAGCCGGAAAGAA C CAA $\operatorname{C}$ GAAACGGAAAGAGGGGGAAAAATCCAAGGGGGACAAA GAGATAAGAGCAAAGAGCAAGGAGGACAAACCGGGGGGAAAA G G G G A A C C G A C C G G G G G A G G G G G G G A GAAACCCCAA G GAAA C GAAGAAGGAGGGAGAAGGCAGGGAGGGGGCCAGGAAAGAGGG $A G C C G A G G G G A A A A C C A A A A G G A A A A C C A A G A C C A G G G G G G A$ GACCAAGAGACCACAGCAACCAGGGGAAGGGGGGGGGGAAGAG G GAAAAAACCGGAAAAGGAAGAAGACAGGCAGGAGGGGAGAA
 GAGAGAAAGGAAAAAAAAGAAAGAAAAAGGGGGGGAGGGGGG A G GAGGCAGAAGAGGGAAGGCCAGAAAGAAAGAAGGCCCCGG GAAAGGGGAACCAGAAAGCCAAGGAAAAAGGGAAAGGGAAAA G GAGGGAAAAAAGGAAAACCAAGGGACCGGGGGGCCACGGGA

 AA $A \operatorname{GAA} A G A A A A A G A A A G G G C C A A G G G G A C A A A G A A A A G G A A$ C C C C C CATCCACCCGAAAGAAAAGCAAAAGAAAGGGCCAAAG
 AAAGAAAGGGCCGACAAAGAGGAAAAAAGGGAAATTGAGGAG G GAA $A \operatorname{GAA} A G A G A A A G G A C A G G A A A A A A G G A A A A A A A A G G A A$ C CAGAGCAAAGGAAAAAAGGAGAAGAGGGAAAAGGAAAGGAG A A A C G G G G A G G A G G G G ACAGAGAAAGACGGAACC GAACAAAA AAAGCAAGGAAGAACAGAGGAAGGCCAAGGGGACAAAGAAGG GAGGGGAAGGGCAGGAGGAGAGGAAAAAAAAAAAAAGGACGG GAGGCCGGGGGGAGGGAGGGAGAGAAGGTTGGAAAAAAAAGG G G G G A A A G A G G A A C G G A G G G A A C A GAGGGGGGCCAAAAAA G G G G A A G G G G GAAAAAAACAGGGGGGGAAGTTGAGAAGAAAAAA AAAACCAAAAGAGAGAAGAAAAGGAAGGGGGGAGAAAAAGAA $A C G A G G G G G G A A G G G G A A A A G A G G C A G A C C A A G G G G A G A G A A$ GGAACCGGCCAAAGAAAAAAAAAAGGAGGACACAAAAAGGGA
 $G G A A G G A A A G A G G C G G A A A A A A G G A A G G A A A G C C G A G G A A G G$
 GAGAGAGGAAAAAGGGAGAAGGAACCGAAGAGAGAAAGAGGG G G G G T T C A C G G G G G A G A A A A G G G GC C G GAAAAAA A G G G GA G G GGCCAAGAGGGGCCGGAAGGAAAGGGGGGGGAAAGACAAAAG C A A G G G A G A G G A G G G G G G G G A G G A G G A A T T C C G G G GAAA A A A A G G A G A A G A A G G G G G G G GAGGACCAGAACCGGCAAAAAAGAA AAGGAAGGACCCGGGGGAACCCAACATTCCAACCGGAGAAAA A A C A $\mathcal{A} G \operatorname{G} G A \operatorname{A} A A G G G G G G A A A A G G G G G G G G C C B A A A A A G G G G$ AAACGAAAAGGGCAGAAAAAAAAGAAGAAAAAAGGGGGAGAA A A A A C CAACCAAAAGGAAGGCCGGGAGAGGGGGGGAAGAAAA A A A A A CAAAC GAA GCCGAAAGAACGGAAAAACAAAAAGGGGG1 A ACCCCAAGGAAAAAAGAAGAGAAGAAAGGAAAGGAGAAGCC A A G G G GACCCAAAAAAGGGGGGAAGGGGAAAGGGGGGAGGGG G GCCGGGGAAAAGGGGGGAAAAGGAAGGAGCCAAAAG
GAAAACCGAGGGGAAGGGGCCGGGGAAGGAAAAAAGGAGGG
 G GAGAAAAGGGAAAATTCCGGAAGAAAAATTAAAAGAAACC CCGGAAGAGGGGAAGGGGGGAAGGAGGAAGCAAAGGAAGGGG A CAA $A \operatorname{GA} A C C G A G A C A A A A A G G G G A A A A A C G G A A G G C C A A C C$ G GAACCGGCAAAGACCCAGGAAAAAAGAAAGACCAAGCGGCC CACCACACGGAAGGCCGGGGAAGGGGAAAACCCCAAAAAAAA G GCCAAAAAAAAAAAAGGAACCGGCCGGTTGGGGBAAAAGB G G G G A G G A G G C C G G A A G A A G A G A A G G A A G G G GA G G G C C G G C C $G G A A G A A A A G G A G G G G A G G A T T A G A A A A G G A A A G G G G G C C A A$ A G GAA ACCGGAAGGGGGGGGAAACACAAGGAAGGAAGGCCGG

C CAGGGCCAAAAAAGGGAGAAAGGGAAAACAAGGAAGAGGGG C C A G A G G G A A G G G G G G A G A A A G G G G G A A G CA $\mathcal{A} G G C A A A A G G G$ C CAGAAAAGGCAAAAGAAGAAAGGGCGGGGAGGAGAAAAGAG AGGAAGGGAAACGGGAAGCCAAGGCCCCGGAGAGAAGGGGAA GGCAGAACGAGAAAGGCGAAAGACAGAAAGGAGGGGAACAGA G G G GCCGGGGCCAGAAGGAGGAGGACGGGGAAAACCAAAGAC ACAAAAAAGGAAGAAGCCGGGGGGAAAACCGGGAGGGGAAGA $A G A C G G A A A A A A G G G G G G A G C C G G G A A A A G G A C A G G A G G G G G$ A A G G A GACAAGGGGGAAAGAAGAGGGAAAGAAACGGAGAAAA GAGAGGAGGGAAGGAAACGGAGACAAGGAAGGGGAAAAGGGG G $G A A G G A G G G G G G G A G A G G G G G C C A A A C A G G G G G A G A A G G A G$ $A G A G G G G G G G G G A A A G G A A A G A G G G G G G A A C C G G G A G A G G A A$ A A A A C C T A G G A A A A C C G G G G A A G G A A C G G GAA A A A GA GA G C C A G A A G G A A A A G G G G A G G G C A G G G G A A A G G G A G A G G A A G A G G A GAGGGGGAGAAGGAAGGAAACCGACCAAAACCAGAGAAGGAA AA $A G G A A G A A A A G A A G A A C A A G A T G G A G G G G G G A A A A G A G A C$ C C G G A G G G A A A G A G G G A G C A G G G G G G G G G G G G A G A G G G G G C A A G GACCGAAGAAAACGAGGAACGGACAAAAGGGGGGAAAAAC GAGGAAAGCCAGAAGAGGGAAAAGAAGGCCAAAGAGAGAGTT G G G G G G A A A G G A A T A A C C A A G GAACCGAAAAGGAA G G G GAA G CAAGGGGGAAGGGGGAAACCCCGGGGCCAAAACAGGAAGAAA C C G GAA GACCCAGCAAAACAAGCATTAAAGACGAAAACGGAG A A A A A A G G A G A GAGGAAGGGACAGCAGGGGAAAAGAGAAAAG ACCAAGAACCGGAAGGAAAGAGAGGGAAAACCAAGGGGGGAG G GAAAGGGAGAAGGGAGAAAAAGAAACCAAAAGGGGAAGGAA A A G GAA A A GAGAAAGGGGAAAAAGAGGGAAAAAA GAAAGGGG A ATTAAGGAAAAGGGAGGAAAGAAGGAGGAGGAAAAAGAGAA CAGGAAAAGGCCAAAACCAAGAAGACACGGGAGAAACCAAAG CAAA $A \operatorname{GAAAAAAGAAGGGGAAAAGAGGGGGGAGAAGGGACCBG}$ A G G A A A GAGGGGAGAGGAAGAGAAGAGGGAAAGGCAGGAACA TAATAGGGCCCCAAAGGGACGGGGCAAGCCAGAGGACCAAGA AAGGGGGGACGGAACCAACCGGGGGGAAAAGGAAAAAAAAGG G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAATAAAGG C GAA A G G G GAAAGGGGGAAACAGGGGACAGGGAAAAAAGGAG
 G G G G A A A A ACAGACCAGGAAAAGAAAGAAAAAAAGAAAGGGG G GAA $A \operatorname{G} G A A G G G A A G A C C G G A A G G A G G A G G A A A G A G A G G A G G$ GACCGAAGGGAAGGGGGGGGGGGGGGAAGGCCGGAGGGGGGA G GAAGGAACACAAAAAAAGGCAGAGAGAGACAATGGGGAAAA G G G G A A G G A C A A GAAACAGGCCAGCCAGAGCCAACCCAAAAA A A G G G GAAGGGGGAGGGGGAAAGGAGAATTGGACCAAAAAGG
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G G GAGAGGAAAAGGAGATGAGGACAAGGAAAGAGAGGGCCGG A A G G G G A A G GAA $A \operatorname{GAAAAAGGGAGGGGGGAACCGGGGAAAAAA}$ A GCAGAAAGAAAAGGAGAGAAGGGAGGGGAAGAAGAAGACAB AAGGGAGGGAGAGGGAGAAAGGAGGGAACGACAGGGAGGGAA GAGAAGGGCCAAGAAGGGAAGAGAGGGGAAATCCGAGAGGAG GAAGCACGGGAGGGAAAAGGGGCAAGGAGGGGGGAAGGAGAA G GCCAA $C$ G A A G A A A GAGGAAGGCCGGAAGGGGGACAGAAACC G GAGGGAAGGGGAAAAGAAAAGGGCAAGAGAAAACCAAAGGA $A G G A A G G G G G A G A G G G A A G G A G A A G A A A G G G G A G A A A A G G G G$ AAGAGGGAGGGAAGCAAAGGGAGGTAAGCCAGCCGAGGAGAA AAA A A A G G G GAAAAAAGGGAACAGAACCAGAAGGAGGGAAGAA G G G A A A G G A A C C G G G G G G A A G G A A A A G G G G A A A A C C T TAA $\mathcal{A} G$ A A A A A A A A G G G G A A G G A A A A A CAAAGGGGGAAAGGACAAACC A A A A G G A A A A G G G G A A G G G G A A A GAGCAGGGAGAAA G GAA A A A A A A G G A GACAAAGGAGAGGGGGAAAGGGACGCGCACCAAAAA $C \subset A A G G C G G A G A G G G G A C A G A G A C A A G G A A G G G G G G G G A G A A$ T T G G G G G A G G G A G G G G G G A G G G A C A C A G G A A G G A C C A G G G G G C C A G A G GAAGCCGAGGAACCGGAAAAAGAAACAAAAGGCCGG G G T T GACCGAGAGGAAGGGGAGAAAACAGGAAAGAAGGCGCC A A A A A ATTAAGGAGAGAAAAAAAAAAAGAAGGAACCAAAAAA AAGGAAGGAAGAAAAGGGCCAAGACCAAAAAAAAAGCGAGAA
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 G G A A A A A A A A A G G GAAAATTAGAAAAGGGAGAAAAAAA GGGG
 A GAAGGAAAGCAAGGAAAAGGACAGAAGGGGGGGCAAAGGGA GAACAACCGGAAAAAAAAGGGGAGAAAGCAGACCAACAAACC G GCCGGGGGGGACCAGAAAGGAAGAAGGAACCAACCCCAGAG A A GAACA $A \operatorname{A} A G G A A G A A A G G G G A G G G G A G A A G A G A G G C A A G A A$ A GCCCAAATAGGAAGGGGCACCGAAAGGGGGAAGGAAACCGG GACCGGACGAAGAGAGGGGGAGAGACCCCCACAGGGA
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 $A G A G G G A A G G A G G G G G G A G G G A G G A C A G G G A A G A G G G C A A A A$

A G G G GAGGAAGAAAAGAACCGGCCGGAAAAAAGAGGAGBACC A G A A G G A G T T A GAC $\mathcal{A} G G G A A A G G A A A A G A A A C C A A A G A A G G G$ A GAGGAAAGGAGGAGGGCAGCAACGGAAAAGAGGCCAGCAAA GAGAAAAAGGAGGAGGAGAAGGAGGAGGAAAGCCCCAGGAGG GAAGGAAGAAAAAGAGAGCAGAGGCCGGAAAAGGAAGGGAGA $G G C C A A A A G G G A A A G A G G G G G G G G G G G A A A A G G G G G A A A A A A$ G GCCGGGGGGGGAAGGAGAAAAAAAAGGACAAAAAACAGAAA CACAA C A G GAAGAAAAAAGAAGGTTGGAGAAACGGGGAAGAGA
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 G G G G G G G A G A A C A A G G A A G GA G A A A A G G A A A G G A C C G G A G G G
 AAAAGGCCAGGAACAGAGTAAAAGACGGGGAAGGAAAACCAA GA $\operatorname{G} G A C A G G G A A C C A A A A G G A A G A A G G A A G A A A A G G G G G G A A$ AAAACAAAAAGGGAAAGAAGCAAAAAAAGGCCAAAAAGGGGG G GCCAAACAAGGGACAGAAAGAGAAAAAAGGAACC GAAGAAA GAGGGGAAAGGGCCAAGGAAGGGGGACCCAGGAACCGAGAGG A A T T A GCCGGGGGGGAAAAAAGACAGAGAAGGAAAAAAAA GA G G G G G GAA A A GAGGAACCAGGGACAAGGAAGGAAGATACACC GAGGGGGGGGAAGGGGGGGGAAGGCCAAGGGGAAGGAAAAAA AAAAGGCCAAAAAAAAAAAAAAGGGGGGGGCCAAGGAAAAAA G G G G G G C C G G G G A A G G G G C C G G A G G G G G C C G G G G C C G G A A G G G G A A A A G GCCGGGGAAGGGGAAGGCCAACCAAAAAACCGGGG AACCAAAAAAAAGGAAAAGGGGGGGGAAAATTAAAAGGAAAA A A G G G G A A A A G G A A A A G G A A G G G G A A C C A A G G A A G G C C G G A A AA G GAACCAAGGGGGGAAAAGGGGGAGGGGGGAAAGGGGAGG G GAAAAAAGGCCACAAGGAACCGGGGGAAGAGAGGAGAGAAC GAAGGGAAAAAAGGGGGGAGGGCCAACCAGGAGGCCGGAAAA G G G GACACGGGGAGAACCGGAAAAGGGGAAAGACGAAGAAGAG $G G C C A A G A A G G A A A A G A G A G A C B A A G G G A A A G A G G A G G C C C A$ G G GAAGGGGAGGGAAAAAAACCAAGGGGAGAAGGGAGAGAGA

GAAGGGGAACAAAGAAAGAAAGGGAAGAAAAGGAGGGAGAAA A A GA $\operatorname{A} A A A A \operatorname{A} \subset C A A C A A G G G G G G G G A C A A G A G G G G G G A G G G G$ AAACAGCAGGGGGGGGAGAAAGGGAAAAGGGGAAGGGGAAGA GAAGCAAAGGAGGAGGGGGGGGCCGGAAAAGGGGAAAAAAGA G GAGGGAAGGAGGAGAAAGGAAGGAAGGGGGAAAA GAA G GAA G A A A A G G A A A A A G G G A C G A G G G A G G A A G G G G A A G A A A G G A G G A G GAA $A \operatorname{GAAAAAAAAAAAACAGGGAGACGGGGGGGAGAAGAA} A A$ GAAAAAGGCAGGAAGGCAAAAAGAGGAAGAGGGGGGAAAAAG
 AAAAAAGGGAAAAAGGAAAAAGGGCCGGAAAGAAGAAAAGAG
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 G G G GAAAGACGGACGGAAACGGACGAAGACAGGAAAAGAAG G G G G G A G T T A GAACC G G G G GACCAAAACCGGGACCGGGGGGCA G G G G A A A A A G C A G G G G A A A A A G G GAAGAAGCAA AA GACAGA G GAAAAACCAAAGAGGAAGGAACAAAACAACAAGAGGCAGAAA G G A A G A G G A C A G A A G G G A G A G G G G G A G G A G G G A A A A A A G G A G A A G G G G G G G GAA $A \operatorname{GAAAA} A G G G G G G G A A G C C A G A A A A C C A G G A$ AAAAGGGAGAGGAAAGAGAAAAAGGAAAGGAGGGAGGGAGAA GAAGAAGGAGACGGGAAGGAAAGAAGGGGGAGACAAGGAGAA GAGGCCGGAAGAGGCCAAGGCCACGGGGGGGGGGGGGGAGBA G G G GACAGACAAGAGGGGGGGGAGAGGAGAAACCAAAAAAAA G G A A G G G G G G G G A G G G G G A A G G A G G G C C C A A A G A A A G G A G C A ACGGAAGGAGAGGGCCGAAACAGAGGGGAAAAAAGGAGAGAC GAAAGGCCAGGAGGGGAAAGAAAACAGGGGGGGGAAGAAAGA A A GAGGGGAACCGGAAGGGGAGGACCAGGAAAAGACAAGGAG A A GA $\operatorname{A} G C A C C A A G G G G C C A A G G A A G G A C G G A A G G G G G G G G A C$ A A G G A A A G A G G G G G A A G A A GA $A$ A A A GGGAGGAAAAA G GA G G C A $A A G G A G G G G G A G A A G G G G A G A G A A G G G G G G G G G G C A A C A A G G$

 ACGAAAGGAACCGGAAAAGGCCGGAGAAGAAGAAAGGACAAA A A A A A A G A A A A GCCGAGGAAGGAAAAGGGGGGACAAGCAAAC A A A G A A G A G G G G A A A A G A A A A GAA A G A G G G G G G G A A A A A A A C AACAAAACAAAGAGAGAGAAGGAACCGGGGAGAGCAAAGGAA G G G G A A A G A A A A A A GAGGGAGAGAAAGGAGGCGGGGCCAGAAA A A G G G G G G GAA A C C G G A GAGAGGGAAGAGAAAGGGGCA GAAA GAAGAAAACAAAAAGACCAAGAGAGAAGAACAAGAAAGAAAA A A A A G G C A A G A A A G A A A A G GAA A A A A GACAGGCCA GAG G G A T G GAA A A G G G G A A A A A A A A G GAGGAC GAGGGGACAGGC
$C G G G G A A G G A A C A C A A G G G A G G G A A A A A A G G A A A A C C G G G G$ GACCCCAAAGAACCAGGAAAGGGGAAGGGAGGGGAGGGGGGG A GAGAGGGGGGGGAGGAAAAGGGGAGAAAGAGGAAGGGAATT

 G G G G G G A A G GAGAGGAAAAAAAGGGGAGGACCAAAAGGCAAA C CAAAGGAGAAAGGAAAAGGAAAGGGAAAAGGGGGGAAAAAA


 AAGGAGGGAAAAAAAGCCAGGAGGAAAACCGGAAGGAGAAAA

A A A G A G G G G G G G G G G G A A C C G G C C G GAACAGGCCGGGGCATA
 A A A G GAGGGAGAAGAAGAAGAAAATAGGGGAAAACCAAAAAA AA $A G C C C C G G G G A A G G G G C C A A G G A A G G A A G G G G G A A A A A G G$ $C C G G A A C C G G G G G A C A A A A A G G G G G G G G A G A C G G G G A G A G C C$ AC G G G G G G A A A A A G CAGGC GAAAAGACAAGAGAAAAAGAAAA $C \subset G G A A A G G G A A A A G G G G G G A G A C A G C C G G A G G G A G G A A A A G$ A G G G GAGAGAGGGGAAGGACGGCCGACAGGAAAAGGAACCAA G GACAAGAGGGAGGGGGGAGGGGACCAGAACCAGGAGGAACC $C \subset A A C C A G C A C C A A G G A A G G A A C A G G G G G G A C A A G G G G C C G G$ G GAAGGAAGGCCCCCCGGAAGGGGGGAAAAAAAAAAAAAAGG G G G G A A A A A A A ACCAACCAAGGAAGGGAAAGGGGAAGAGGGA $A \subset A A A A G A G A A G A A A A A G A A G G A A G G G G A G A A G A G A G A G A G A$ $A G C A G G G G A A G G G G A A A G G G A A A A G G A A A A A G A G A A A G A A G G$ AAAAAGGGAAAGCGAAAGAGGGACTAAAGGGGACCCGAAAGG AACCGGAAACACGGGGGGAAGAGAGGGGAAGGAGAAAGGGGG AGAACCAAAAAAGGGGCCGGAACCGGAACCAAGGAAAGAGAA
 $A C G A G G C A C C A G A G A A A A G G G A A G A C A G A G G G G G G B A A C C A A$ AA $\operatorname{A} G A A G A A A A G A G G G G G G G A A C C G G A A C C A A G G A A G A G A A G$ A GAGGAGGGGATGGAGAGAAGAAAAGACGGACGGGGGG G GAA GAGGAAGGCCAGGGCCCAGGTTGGAAGGGGGAGACCGGGGAG GAAAAAGGAGACGAGAAAGGGGCCGGAAACCAGAGAAGAGAA GA $A \operatorname{GAAA} A A A A G G G G G A A A A A A A G G G G G G G G G G G G A A G G G G T A$ AAAAAGAAAACCGGGGGGAAAAAAGGAAGAAGGGAAAAGGAG AAGGCCGGGGCCGGAGAAAAAAAAGGAAAGAGAGAGAAAAAA A GAAAAAAAGGAAAGGGGAACCAGGGGAGGGAAGGGGGGGGG A A G GAGGAAGCCCAGAGGAAAAGGAAAGGGAAGGGGAAGGGA GAAAGGGAGGAGAATACCGGTTAGCCCAAGGGGAAGAAAAGA $A C G A A A G A G G G A G A A G C C G A A A A A C C A G A G G G G G A A C A A A A G$ G G GA $\operatorname{GA} A \mathrm{~A} A \mathrm{G}$ GAAAAGGAAGGAAAAGGGGAGAGGGGAAGACGG AAAACCGGGGAAAAAGGGCAGAAGAAAAGGGAACAACCACCC G GAGGGAAGGAAAACCAAGGAAAAGGGGAAGGTTAAAACCAT AAGGAAGGGAAACCCCGGAGAAAGCAGGTTAAAAAACCGGAA A GAAAAGGACGGGACAACCACCAACCGGAGAGAAAAGGGGAA
 $C \subset G G A A G G A A G G A A A A G G A G A A A A A G C A G G G A C C C C A A A G G G$ $C \subset A G G G C C A A G A C C G A C C A G G G A A G G G G A A C C A A G G G G G G C C$ A G G G A A G G A A A A C C G G G G A A A A A A G G A A G G G G A A A A G G G G A G C CAACCAGGGGGCCTTGGAAAACCCCCCAACAGGAAGAAAAG GAGGGGCCAAAAGGAAAGAACAAAGAGGGGAAAGGAAGGGGG G GAAAAGGAAAAGGGGAACCCCAAGGCCGAGGGGAAGGAGGG G GAAGGCAAAGGAAAGAAGGTAAAGGGGAAGCCCGGCCAAAAA AAAAGAAAGAGGAACCAAAGGGAAAGACAGAAAAAAGACAGC G GCCCCAAGGGGAAGCAAGGAGAAAGGAGGGAGAGGGGGGCG GACAGGGGAAAAGACAAGGAAGACGCCAAGGAGAAAAAGGAA ACACGAAAAAGGCCCGGGAGGACAGGACAAAAAAGGCAGGAA C C A A A G G G A A A GAA A GAA $A \operatorname{AGGGAAAAGGAAGGAGGGGGCCAC}$ GAC GAAAAGGACGGAGAAAGAGAGGGGGAAGGCAGGAGGGAG G GAGAGAAAAAAGGAAGGGAGAAGGAGAGGGGGGA$G A A A A G A A$ ACGACAAGCCGGAGGGGAGGGGAGAGAAAGAAAGGAGAAAAA
 A A GAGGGGAAGGAAAAAGAAGGAAAAGGGGCCAAGGGGAAAA AAGGGAGAAAAAAAAAAAAGAAAGAGAGGAGGAAAAAGAGAA GAAAGGAGACGAGGCCAGAAGGGAGAAAGGGGCCBGGGAGAC CAGGAAGGCAAGGAAGCAAAAAGAAAAAAACCGGGGAAGGGG $A G A A G G G G A G G G G A G G A A A A C C G G A A A A G G A G G A A A G A A G A G$ ACCGGGAAGAAGAAAAGGCCAGAGAAAGGGCAAACCAAAGAA GACCGGAACCAAGGAAGAACCACCGGAAAAGGGAAAGCACAC

GAAGAAAACAAAGGAGGGAAGGGGACGGGAGGACGGAAAAGG A A G GCCAA $C$ C G G G G GAAA A A A G GAAAAAAGGAAGGAAGGAAAAA $G G G A G G A G G A G G A G A G G G G G A G G G C A G G G A A A A G A G A A A G G A$ G GACGGGGGGAAGACCAAAGCAAGCAGAGGGGAGACAAAGAG GAGGAGGAAACCGGACAGAAGAAGGGAAGGGGAAGGTAAAGA G G A G G G G A G G G GAA $A \operatorname{G} G A A G G A A A A G G G A A G A A A A G G A A C C C C$ G G A G G A G G A G A G A A G G G G A A G A G G G GAGCACC G G CACAAG G G $A C C G C C A A A A G A G A A C G G A G G G C A G A A G C C G G G G A G A G A A G A$ AAAGGACCGGAGGGCCGGCCAAGGGGCCGGGAGAGAGAAAAA AACAGAAGGGAAGGGGAAAGAAGGAGAAGGGAAGAGAAAGAA A G G G G G G GCCAAGACCAGGGGGAAAAAACCAAGGGGGGAGAA
 G G A A A A G G A A A A G G C G G G G GAGAAAAAAAAAAGGAAAACAAA G GCC $C$ G G G G G G GCCAAAAAA A $\mathcal{C} A G G G G G G G G G G A A A A A A G G G G$ G G G G G G G G G G A A G G A A A A G G A A A A G GAAAA $A$ A $A A A A A G G G G A A$ A A A A G G G G G G G G G G G G A A A A A A A A G GAAAAAAAAAAAAAGGG G G G G A A G G G G G G G G G G A A A A A A A A A A G G G GAAAAAC C G G A A G G G G A A C C G G A A G GCCAAAAGGGGCCGGCCGGGGGGAAAAAGAC AGGAAAGGAACCAGGGAGGGAAAAAAGGCAAGGAAAGGAACA AAAAGGAAAAGGAGAAAACCGAAAGGGGGACACAGAACAAAA GAGAGGAGAAAAGAGGAGCAAAAGGGAGAAAAAAGAACAGGG GAAAACAGAGGGCCATGGAATTCCAAAAAGGGAAGGCAAGCC A GAA A G G G GAGAGGAAAAGGATGGGAGGAAGAGGGGGGAAAA CAAGGGGAGAGGGGGGAAGGGGAAAACCAAGGGGAAAGAGAG G G G G A G A A GA G GAAAAACACGGAAAAGGAGAGGGAGAAAAAA G GAAAGAGAGCCCCGGAAGGAGAAAAAAGGAAAGCCGAGGCC $C \subset C A A C A A G G C A G G G A A G C C C C A G A A A A A A G A G A G G G G A A G G$ A G G G G A G G A A C C G GCCACAAGGGGAAAAAAGGGAAAAGGGGG GAGGAAGAGGGGTTGGCCGAAAAGAAAGAACAAAGGAGCCGG AAGGAAAAGGGGAAGGCCCCGAACAAGGGGGGAAGBAACCCC $G G T T T T G G A A G G G G G G A A G G C C A A G G G G G G C C A A A A G G A A A A$ $C C G G G A G A C C G A G G G G A A G G A A A A A A C C G G A A C C C A A A A A A A$ GACGGGAAAGGGGGAAAAGGGGAAGAAGGGCCCCAAAAAAAA GAAGCAGACCCAGAGGGGGGAAAGAGGGGGAACCGAAAAAGG G G G G G A G A C C A A G G G GCC CATTGGGGGGGACAAAA GGGAGAA A A G G A A A A A G TAGGAGGGAGAAGAGAGGGAGGAAGGGAAGAA A GAGGGAGGGAAACAGAGAAGGAGGGTAGAGAAAAAGGAGAA G GAA $A \operatorname{GAA} A C C C A G A A G G A A A A G G G G G G A G A A A G A A A A G G A G$ GACAAAAGGGGGCCGGGGGGAAAAGGAAAAAAAAGAAAAAGAG
 $A A C C A A C C A A A A A A G G A A A A G G G G G G A A A A G G C C A A A A G G G G$ G GAA A G G G G G G GAAAAAAAAAAAGGAAAAAACCAAGGGGGGGG GGCCGGAAGGGGAAAAGGTTAACCGGGGCCAAAACCGGAGAAA A A A A A A A A G G A A G G G G G G A A A A G G G G G G G G C C G GCC G G A A G G G G G GAACCGGGGCCAAAAGGAACCAAAAGGGGGGAAGGAAAA
 AAGGAAGGAAAAGGGGAAGGGGGGAAAAAAGGAAGAAAAAAG G GAAAAAAAACCAAGGAAAAAACCAAGGGGGGGGAAG
GGGCCAAAAGGGGAAAAGGCCAAAAAAAACCGGAAAAGGCC G G G G GACAAACCGGGGAAAGACAGAAGAGGCAAAAAGAAGAC $A A G G A G G G A G G A G G G G G G A A C C G G A A G G G G A G G G A G G A G G A A$ AAAAGGGAGGAAAAGGTTAAAAAAAACCGGGGGGAAAA G A A A A A A A A A CAA $A$ A $\operatorname{A} G A A A C C A A G A A G G G A A G G C C C G A G A C C G G A A A A$ GGAAGGGGCCGGCAAAAAAGACGGCCCCCAAAGAGGGGGAAA A G G G A A A A GAA A GAAAGGAAGAAAGGAAGGAGACAGAAAAGG A A G G G GAAAAGAAGGGAAAGATGGAGGGAGAGAAAAAGAAAA A GAAAAAAGGAGCAAAGGAAGGGGCCGGGGGAAAAAAAGAGG
 AAAAGCGGAAGGGGAAAAGGGAGGGGCCAAGGAGAGGGAAGA

AACCGGAAGAGGAAGAAAGGCCGGGAAAGGGAAGCGCCGGGG G G A A G G G G A G A A A G G GCACCGAGGGAAGCCGGCCAGCCGGAG GAAAGGAACCAAGGGGGGGGTTAAGGAAAAAAGGAAAAGAAG A GAGGGAAAAA AAGAAAAAGGGGAAGGAAAAAGAAACAAAAA G GCAGGAAAGGGAGGGCAGGGAAGGAAAAGCAGACCGGGGGG C C C C A G G G A G G G C C G G G G G A A G G A A A A G G A A G GACA A A A C G G ACAGGACCAGGGGGCAAAGGGGCAGAAGAAGGAGAGGATTGA AAGAGGCCAAAGGGGCGGGGGGCCGGCAAGAAAAAGAACCAG
 G GAGAAAAGAAAAGAAGCAAAGCACACAAGAGGGGAAAGAAG G GAAAAGGGGCCGGAATTAAAAAAAAGAAGAACCAGCAGAGA CAAAAAGGAAGGCAGAGGGAAAGGACAAAGAAGAGBACGCGG GAAACCGGGGCCAAAAGGAACCCCAAAACCGGCCCCGGGGGG G GAA A GCCAAGGAAGGGGCCAAGGAAGGAGAGAGGAAAGGCC GAAGGGAAAAGACCGGGGAAGGGAGAAGCCGGAGGGCCAAGA $C \subset G G G A A A G G A G A A G A G G C C G G G A G A C C A A A G G G G G G G G A A A$ GCCAA $C$ G $\operatorname{CACC} C \subset A A A C G G G A A A A A A G G G G G G A G G G G A A G G G G$ GAAACAGAGGAGGGGAAGCCAAAAAACGGGAAAAGGGGAAGG AAAAAGAAAAGAACGAAAGAGCGGGAAAAAGGGAGAGGAGAC G GAAAAGGGGGGAGGAAGGGGGATGGGAGGAGAGAGCACAC G AGGAAGGAGGGGAACCAGGGGGGGGGAAAACCCCGGGGAAGA
 A A A GCCAGAAAGGGGGAAGAAAAGCCGGAGCCAAGAGAGGGG G GAGGAAAGGGGAAGAGGAGAAGAGGAAGGAAAAGAAAAAAA GAACCCGAAAAAAGAAAAACACAAGGCCGGGGTTAAAAAAAA AAAAAAGAAGAACAAACCGGAAAAGGAAGGGGAAGGGGAAGG G GACGGGGCCCAGAAAAAGGAGAGACAGGAGGAAGGAAAAAG G GAGGGGGAGCAGCGAAAAAAGCAGGGGGAGAAAAGAGAGAA G G A A G GAGAGAGAAAAGGCAAGAAGGAACCACGGACAGAGAA AA GAGAAAAAAAGGCAGGCCCAAAGGGAGAAGGAGGGGAGAC $A G C A A A A C A G G G G G A A A A G G G G C C G G G G A A G G G G G A C G G G G G$ G GAAAAGGGGGGAAGGGGGGAAGGGGAAAAAAGGAAGGGGAA G G G GAAAACCAAAAAAAAAAGGGGGGCCAACCAGAGGGAGAG G G G G G G C A GAGAAGGAAGCCGAAGGAGGGAAGAAGACAAAAA A G G G A A G A C C C C A A A A A A G G G G A A C C GAAC G GA G GA G G GA G A A A G G G A G G GAAAAAGAACGAACGGGAAAAAAGAGGGAGAGAA A A G G G A A A A G A A A G G G G GAGAGAGAAAGAATTGAAAGAACAA G G G GAAAGAAGAGGGACCAAGAAAGAAGAGGGAGGGCCAGAC GAAACCAAAAGGGGGGGAGAGGGGGGAAGGGGAAGAAAAAGA $G G C C A A A G A G G G A A G G G G G A G G A G A C A G G G C C G G A A A A A G A A$ G G G G G A A A G A G G G G GA CAA A G G G G A A A A GA G G
 AAGGAAGCCCCCAAGGAGAGAAGGAAGGGAAGCCAAAAGGAA $C \subset G A G A A G G G G A G A G G A A C C A G A G G A G G C C A G A G C C G G G G A A$ A GCCAAGGAAAGAGAAAAGGAGAGAGACGGGGAAAGAAGGAA A A A A G A A A G G A A A GCCGGGGCCGGAGGAGAAAAAGAAAAAAA AC G GCCGGCCAAGGGAAAGGAGGAGAAGAGAGACGGAAAGGA G G A G G A G G G G G G G G G G G G G G G A G A G G G G C C G A A T A G G A G G G A A GAAAAAGGACCGGGGAAAAAGAACCGGAGAGCAAGAAGGAA A A A A G A A A G G G G A A A A G GAA $A \operatorname{AGGGGGCAAACCAGGGGAAAGG}$ C C G G G GAAACGAGAAAGAGAAGGGAAAACCAACCAAGAAAGG GAGGAACCGGCAACCCGGAAAAGGGGAAGGCAAAAGATAAAG A A A A G G G G A A A A C C A A G G A A A A A A C A T T C C G G G GCCGGGGCA AAAGAAGGGAAGAAGAAAAAGAGAAAAAGGCAAAACAGAAGA A GAAA A A A A GAAA $A \operatorname{A} G \mathrm{G} C A A A A G G G A C G G A G G G A A A A A C A G A A$

 A G G G G A C A A G G A GAGGAAAAGACCAAAGCAGAGAA AAAAA GA $G G G G G G G G A A C C G G G G G G G G A G A G A A G G A G G G C A A G A A G A A A$

A A G G GAAAGGAAGGAGCCGAGGAAAAGGCCGGTTGGGGAAAG G G A A A A A A A A A A A A A A GAGAGGAAAAAAAGCCAAAA G GA G G G G G G G G A G G G A A ACCCC GAGGAAAGGGCCAGAGAAGGAGCAAA ACAAGGCCGGAACAAAGGAAAAGGAAACGGGGAAAAAAAAAA G GAAAGGAAAGGGGCGAAAAGGGGAAGGAAGGAGGGAAAACAC A A G G A A A A G G G G G GCCAAAAGGAACCGAGATAACAGAAGAAA C C GAGGAAGGAGGAAGAGAAACAGGGAAGGAAGGAAAAAAAA AAAGTAAAATCAGAAGGGGGAAAAACGAGGCAAAACGGAAAG A A A G G G G G A A G ACCGGGAAAGGAGCCGGAAAACCAAAGAAAA GAAAGGGGGACCGGGAAAAACCGGACAGAAGGAGAAGGGGGA A G G GAGAGAAGGGGAACCGGCACCAAAAAAAAAAAGAAAGAA A ACCGCCAAAAAAAAGGAAGGAAGGACCAAGGAAAAAAGGAG C C A A A A A G A A A A C C GAGGGGGAGGGAAAAGAAA GA GAGGGCA G G G G G G A A A A C C A A G A GAGGGAGGAGAGGAAAGGCCAA GGGG A A A A A A CAGAGAGGGGAAAACCGGAGGGCCAAGGAAAAAAAA G GAA A A A GAGTAAAGGAAGGAGAGCATTGGCAAAAGAAAAAA A A G G G GAAAAAAGAGAAGGGAAAACCGGAAAAGGGGGAAAAA A A GAGGGGACGAAGGGAGCAGGAACCAGAGAAGGCCGGGGGG AAGGAGCCAGCCAAGGGGCCGGGGAAGGAAGGCCGGACAAAA GAACCCAACCAAGAAGGGGAGGAAAAGGAAAGAGGGAACAAG A G G G G G T TAA $A G G G G G A A G A G G G A G G A A A A A A A A A A C C A A G G$
 A G G G A G A A G GAAAAAAGGAAAAAAAAAACCGGCCAAGAAAAA G G G G G G G G A A G G G G GACC G G G G A GAAA A A A GAAA A A GAC C C C G G GAA A A GAACCGGGGACGAAAGAAGAGAGGGAGTTAAAGAA AAACAAGGGAGGAACCAAGGAGGGAGCCAAGGGGGGGGAAAA GAACAGAGGGAGAAGGAGAAAACCAAAGGGCCCCGAGAAAGAA GAGAGGATCAAAGGAACCGGGGGACCAAAAAAGGCCAGAAAA A G GAGGGGGGAGGAAAAGAGAAAAACGGGGAAAAAACCGGGG $G G A G A G G G A G G A A A G G G G A A A A A A G G C C G A A C G A A C A A A A A A$ A A A A A A A A A G GCGAGAGAGGAGGAGGGACAAAACAAAAGGAA A G GAAA A G G G G G G G C C G G G G G G G G G GAA A G GA G GC C C C G G A A G GAAAAGGAACCGGAAGGAAACGGGGGGAAGAACAGGGAGAG GGCAAGCCAAAGAAGAAGGAGAAAGAAAAAGGAAAACCBGAA G GAGAAAACAAACCAACCGGGGGGCCACAAGAAGCCAAGAGG A A G G G A G A GACCGGCCGAAAGAAACAAAAAGGAACCGAAA G G GAAGGAGGAAAAGGAAAAACGAAGGGAAGGAAAAAGAAACAG G GAACAAAGAACAAAGGACCGAGGCCACAGCCGAGGGGGGAG G A A A A A A A A A A A G G CAA $A \operatorname{AGGACGGGAAGGAAAGAAGAAGGGG}$ AAAGGGCCCACCCCGGAAGGAGGAAAGGGAGGGGGAAGAAAG $G G A A A A G A G A G G A A G G A A A A C C G G C A A G A A G A A A G G C C A G A A$ A GCAACGGAAAACAGAAGAGGGGAGGGGGGGGCCAGGGACBG GAGGAAAGGGAAAAAAAAAGAGCCAAGGAAGAGACCCAAGAG A A G G A GA G G G A A G A C A G A A C A GAGGAACGGGGAA G G G G G G G G G A A A A A A G G GAGGAAGGCGTTGGTTAAAGAAAAAAAACACCGG GAAGAGGAGAGGAAAAAAGGGGGGAACCGGAAGGCAGAAGAG G G G GAAAGGAGGAAAAGGCCAAGGGGAAAGCCGGGAAGAABG A A A A A GAATTAAAAGGAAAAGGGGGGGGGGAAAAAGGGAAAG GAGGGAGGACGACCAAGGAAAAAAGGCCGGGGAAAAGGAACC G GCAAAAAAAGAGAAGACAGCAAAGGGGGAAAAGAAGGACAA G G A A A A G G A G G G G A A G CA $\mathcal{A} G G G G A G G C A C C A A A G A A G G G G G G$ CCAAAAGGAAAGAGCAGAGACCAAAAGAGGAAGGAAAGAGAA A G G G G A G A GA G A A A A A A A A A A A C C GAGAGGGGGGGAAA G G A A G GAA $A \operatorname{G} G A A A A A A A G G A G G A C C G G G G C A G G G A G G C C C C A G G G$ C G GA $\operatorname{G} A A G G A G A G G G A G G A A G A G G C C A A A A A A A A G G G G A A G G$ AACCGGAAGGAAGGGGAACCGGAAGGAAGGCCGGCCAAGGGG A A T T G G G G A A G G G G C C A A A A A A A G G G G G G A A G G G G A A G G G G G G $G G A A A A A A A A G G A A G G A A G G A A G G A A A A A A A A G G G G G G G G T T$ G G G G G GAA $A \operatorname{GGGAAAAAAAGGGGAAAAAACCGGGGAAGAAAAA}$

G G G G G GAA $A \operatorname{GGGC} C G G G G G G G G A A A A G G A A C C A A C A A A G G G G$ G G A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G G G G A A G G G G G G G G A A A A A A A G G G C C$ G G G GCCGGGGAAAAAAGGGGAAGGAAGGGGAAAAAAGGGGGG G G G GAACCAAAAAAAACCAACCGGGGAAAAGGGGAAGAAAAA A A G GAA $A \operatorname{GGGA} A G G G G A A A A G G A A A A G A G G A A A A A A G G A G A A$ G G G G G G G G A A A A G G A A G G A A A A A A A A A A G GAAAAAAA G G G G A A $G G A A A A A A A A A A G G G G A C A A G G G G G G A A G A G G G G A A A G G G T T$ AAAACCAAGGAAAAGGCCGGAAGAGGAAGGGAGAAAGGGGGG
 TTAACACCGGAGAAATAGGAAGCCGGGGAAGGGGGCAGAAGG G GAGAGGAAAAAGGAACCAGAAAAAGGAAAGAGAAGAAAACC A A A C A G A A GA G A A G GAAAGGAAAGAAAACCAGATGGAGAGAA A A A A G A GAGGAGGGGAAAAGGAGAAAGGGAAGAAGAGAAACC AACCGGAAGAGGAAGGAAAAGAAAAGACGGACAGAAAAAAGG AA $\mathrm{A} G \mathrm{G}$ GAAAGGGAAAGTTCCAAAGTAAAAACCGGGGAAGGGG AAAAGGAAAAGGAAGGCCCCAAAGAGAAGGAATACAGGAGAG GAACA $A \operatorname{A} A G G G G G G G A A G G G G A A C A G G G G G G G G G G A C G A G G A A$ A GAGGGGAGAAACAGGCCAAGGAAAAGGGGGGAAAAAAGGCC AACCAAGGAGAGCCCCGGGGGAAAAAAAAAGGAGAAGAAGAA A A C C C A A G A G A G G A G G T T A C G A GAGGACACCAA GCAAGAC G G AGGGCCCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGGG AAAAGGGAGGAACCAGGAAGCAAGAAAAGAGAAGGGAGCAGA A G G A A G G G CAAAAAAAAGAACCAGAGGGGGGGAAGAAAAACC G GCC C A G G C A A A G G G G G G C C G G G C T T A A G G G G A A G G G A G A G G G GAA $A$ G A A A A A A A A A A A GAGGAGGAGAGAAGGCCAAACAA GA
 G G G G GAAGACAGAAAAAGAAAAGGAAGGCCGGAAGGAAGACC G G TAA A CAGGAGGAAAGGGAAAACAGAAAACCAAGGAAGGGG GACCAAAGGAAAGGGAGGAGAGGAGGCCAAAAAAGGCCAAGA AAGGGGGGAGCAGAGGGAAGACGGACGGCCAGAGAAGGAGAA A A G G A A A G G GCCG GACGGCCGAAAGAGACCGAGACCGBAACC AAGGAAGGCAGGCAGGGGAACCAGGGAGAACCAGGGAAAGAG G G GAA A A A G GAAGGCAACGGGGGAAAGGAAAAAAGGGCAAAA A A A A A G A A A G G A A A G G A G G G G G C C T T G G G G A A $\mathcal{A} A G G G G A G G G$ A ACCAAAAAGTACAAAGGGGCACACCCCCCAAAABACCGGGG A A C C A A G G G G G A A A A A G G A G G G C G A G A G C C A G A GA G G G GAC C C CA GAAAAAACCAAGAGGGAGAAAAAGGAAACBAAAGAGGAA A A GAGGAA $A \operatorname{A} G A G G G A A G G G G G G A G A G G A A C A G C A A C A A G G G G$ A A G G G G G G A A A G A A G G G G A A C C A A A G G A A G G A A G G G G G G A G G A A GACCGGAGCAAGGGAGAGAGAAGGGAGGAGGGAGGGAAGG AGCCAAGAAAAAAAAAAAAAGACCGGAGAACACGGA
A A TA A GAGAGAAGGAAAAAAAAACAGAGGCGGAAGAAGAGG $A C C A A G G A G G A C A G G G G G G A A G G G G G G A A G A C C A A C G G A A C C$ G GAA A G G G A GAGGGAGCAAGGGCCAGAAGGAGGGGAGAGAAG A GAGAAGAGGCCGGGACAGAAAGGACAAAAAGAAGACCGGGG G G G G G G G G G G A GA $A$ A A $\mathcal{A} G G G C C G G C C G G C A C C G G G G G G C A A A$ A GAGGGAAGAGGAAGAGAGGAAGGAGAAGAGACAGAACAAAG C CA $\operatorname{C} G A G G A A A G A G A A G G G G A A C A G G G G G G G G G G G G G A G G G G$ GGCCAAAGGGAACCTTCAGATTAAAAAAAAGAGGGAAAAAGG A A G G G GAAAA $A \operatorname{A} \operatorname{A} A G G A G G A G A A G G G A C C A G A G G G C C G B A G G G$ AAA A $A \operatorname{AGGGGCGGCC} C A G G A G G A A A A G G A A G G A G G A A C A A A G$ CAAGGGAAACGAGGGAAGCCGGAGAAGGGGAACAAGGCAAAA A A G A A A A A G A A G G G G G G A A A G G A A A A A A $\mathcal{A} G G G G G G G G G C A A A$ $A G C C A A A G G G A G A A A A G A G G G G A G A A A A G A G G A G G G G A G A A G$ A A A A G A G G G G G A G GCCAGCCAGAGACAGGGCCGGGGAA G GAA G GAAGGAAGGGGAGCCGAGGGGAGGGAAGGAAAGGAGAAGGA A A G GCCTTCCCCAAGAGGAAGGGGGAACAAAGGGATAAGGGG A A A A A G A A G G G A G G G A G A A A A G G A G G C C G G G G A G G A C A G G A A AAAAGAAGAAAAAAGGGGCCGGGGCCGAGGGAAAAAGACAAA

G GACCCGAGAGAGACAGAAGGGGAGGGGAGAGGGGGGGAGAA G G G G G GAA $A \operatorname{GCC} C G A G G G G A A G A G C G A C G G G A G A A A G A A A A A$
 AA G GAA A GAAAAAAGGAAGGCCAAAGGGAAAGAACAGAAGGG
 G GAACCAGGGTTAAGGGAAGAAGAGGGGGGAAGAAGGGGAGG G G G GAAAGCGCCAACCAAAAAAAAAAAAAGAACCCCAACAAG AAAGGGGGGAGGGGGGAGAAAGAAGAAAAAGGAGGAAGAAGG GAAAGACCGGAGGAGGGGAGAGAAGGGGAAGGCCAGAGAAGA G G GAAAGGGAGGGAAAGGGGAAGAGGAGGAGGGGGGAAAGCC AAAACCGAAAGGAAAAAAAAAAGGGAGGAGAGGGGGGGGGGG A A A A G G GA $\operatorname{A} G A A G A G G A A G G G G G A G A A A A A T A A G G G G G G A A A$ A GAA A G C C A A G G C C C C G G G G A G G G G A G A G G G A A A G G G G C C C C GAAAAAGGGGAAAAGAAGGGAAGGGGAAAGGAAAAAAA GACC CA $A \operatorname{G} G \mathrm{G}$ GAGAGGGGAAGGGGAGGGGGACAGAAAAAGAGGGAG AAGGGGAACCTTGGACCCGGAACCAACAGACAAGGAAATAGEG GAA $A \operatorname{GA} A \mathrm{~A} A A A \operatorname{A} A A G A G G G G G G A G A A A A G G G G C C B G C B A G G G$ CAGACCGGGGGGGGGGAAGGAAAAAAAAAGGAAAGACAAGGG
 CA $\operatorname{G} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A C A A A G A G G A C C C C C G G A A G G G A A A G G A G A A$ $C \subset G G G G A A T T G G G G G A A C A G G A G G C C C C G A G G G G C C G A A A G A$ A G G GAACCAAAAGAGACCGGAAAAGAGATAAAAAAAGGCAAA $C \subset G G A A A C A A A C A A A A G G C C A A G G G G A C A G G G G G G A A A A G A A$ A A G G A A A A A A A GCCAAGAGAAGAACCCCACAGCCCCACAGCA G G A A A A A A G G T T G A G G G GCCA GCCAAAGGAAAGGAAGGGGGA CA $A$ A A A GAA $A \operatorname{GA} A G G G T T G G A A G A A G C C A A G G A G A A A A G G G A$ GAGGGAGGAAGGAAGGGAAGAGAGCCGGGGAAAAAGAGAAAA C CAAAAGAGGAGAGAAAAACCCAAAAAGGGAAGAAAAAAGGG AAAGAAAAAAAAAAGGGAAAAGAAGAAAAAAAAAAAAAA GA GAAGAAAAAAGAAGGGAGGGGAAGAAGGACGAGGGGGGAAGA $A C G G A A A G G A C C C C G G G G A A A G G A A A A A A A G G G G C C A A G G A G$ A GAAATGGACGGGGAAAGAAAGGAGAAAGGAGAAGAGAAACA AAAGCCACGGAAGGAGCCAAGAAGACGGAAGAGGGGAAAAAG AA G GACAAGGAAAAGGCAAAAGGACAAAAAGGCAGGGGAAAG GAACAGAAGGAGACCAGGGGAAGAAGACGAAACCAAGGAGAA A G GACCAAGGAGCCGGGGGGAGAAAGGGGGGAAGAAAAAGGG $C C G G G A A A G G G G G A A A G G A A G G A A A A G A G G A G C A G A G G G G G G$ A A A A G G G G A G A A A GAGGGAAGGCCGGAGAAAAAA G GAAA G GA G G G A G G G G G A A G G G A G G A A A G G G C C A GAA A A GAGGAGCA GAAA A G A A A G G G A G G A G A G G A A A A A G G G T T A A G GAC GAAA A A A A A A $G G A A A A G G G A C C A A A G A A A A A G G G G G C C G G G G C C T T C C A G G A$ A GAG G A A A A A C G C C A G A GAAAAGGAAGGAAAAG GAAA GAGAT GGAGCAAGAACCGGCACCGGAAGACCAAGAAGAAGGGAAAGA A GACATGGGAAGGACCAGAGAAGGGGGGAAGAAGAGAGGGCC A A G G G G G G A G A A A A A A A A $\mathcal{A} G G A C C A A A A G G G G G G G G A A G G C C$ A A A C G G G G G G A G A G G G A G C A G G A G G G G A G G A A G G G G G G G G A A GGCCAAGACCAAACAAGGGGAAGGGGAAAACCGGAAAAGGAAA A A G GAAAAAAACGGGGGGAGGGTAAGAAAAGGAACCGAGGAAA AACGAGAAGGGGGAAGAAGGGGAAAGCCAAAGAGGGAAAACC G G A G A A G A GAAACATACCGGGGAAGGTTAACCCCAAAAAAAC
 GGAAGAGACCAGCACAGGGAAGAAAGAAGGAGGGAAAAAGGG G G G G G G A A G G A A A G GAA A C A A A A A A A A G G GAGAA A A G GAAA $A$

 G GAATTGGAGGGAAGGAAGAAAGAGAAGACAAAAGGGGCCAA AAAGCACCAACAGAATGAAAAAATTACCAGAAAAGGABAAGG A A A A A A A G G G A A C C G G A A A C G G G G CCA G TACC G G A A CA G G A G GGAAAAAAGAGGAAACGAAAAACCAAGAAAAAGGAAGGAGGG

A GAACCGGAAAAAAGGGGAAAAAAAAAAGGGGGGGGAGCCGG G G G G C G G A G A A G G A C C A A G G G G A G G G G G A A A A G A G G G A A A G G GAAAGGGGAAAAAAAGAAGGAACCGAAGAGCACAAGTXCCAG $C \subset G A C C A A A A G G G A A A A G A A A A G G G G G A A A A A A A A A G G G G G G$ G GAA A G G G G G G GAAAAGGAAAAAAAGAAGGGGAACAAATTAA C C G GCCGAAGAAAAGAAAAAGGAATAGGAAAAGGAAGA GAAA A GCCAAGGAAGGAGGGCCCCAAAAAACCGGGGGGCACCGGGG G GAACCGGAAAGAATAGGGGGGAAAAGGAAAGAGGAGGAGGG A A A A A G A G GAG G TA A A A GAAGGAGCAAGCCAAA GAGAC G GTT A GAGGGCCGGGGGGCCGGAACCGGGGCCCCACCCTAGGTTTT G G A A A A G G A A A A A A G GAA $A \operatorname{AGGGGGCCCCAAAAAAGGGGGGAG}$ G G G G G A A A GA G GAA $A$ GAAAACAAAAGGGAAGAAGGCCGGAABA G GAGAAAAAAGGCCGACCAAGGGGGGAAGGGAGGGGABAGAA G G G GC C A A A G A T G G GA GACAGGCCGGGGGGAGAAA GGGAGAA GACACAAAAGGGAGCAGAAGGATACCAAACAGTTGGAAGAAA G GAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAGAAGGAGAA A G G A A G GACCGGAGGAAGGAAACCACACGAAATTGAAAAGAA GAAGCAGAGGAAGGGGGACCAGAGGGAGAGAGCAAAAAAGAG $G G A A A A G G A A G G A G A G G A A G G C C A A G G A G A G G A G G G A A C C A A$ AAAGAGCCAAGAGGAACCGAAAACAGGGACAGCCAAAAAAAG $G G C C A A G G G G G A G G A C A A G G C C G G A A G G G G G G A A A A G G A A G G$ C CAA A G G GAAGGAACCAAAAAACCAAAAAACCGGCCGGAAAA $G G A A A A A A G G G G G G G G G G C C G G G G A A A A A A A A G G A A A A G G A A$ A A A A A A G GCC G G G G A A G G A A G G G G G G A A G GACAAA AC G CA A A

 AAGGAACCTTAAAAAACCGGGGAAAAGAGAGGCAAAAAGAAA A A G A A ACCCAAACAAAAGAAAGGAAAGGAACCACGAAGAAAA G GCCAAGGGAAACCGGAAGGACGGAAGAGAAGCCCAGAAGAC A GCA $\operatorname{G} A \mathrm{~A} A \mathrm{~A}$ A ACAGCCAAAAGGCCGGGAAGGGAAGAGGAGAA G G G G A A G G C A A A G G A G G A A A A A A A A A GAAC GAA G CAA GAC G G A GACAGGGCGAGAGAAGGAAAAGGAAAAGGGGGGCCCACC GA GAAA A A GAGGGGAGCCGGCAAACAGGAAGGGGGGATAAAAAA CCCCGGCCAGGAGAGAACAAGAGGGAAAAGAAAAAAAAGGAA

 AC G G GA A A G GAAGGAGAGGGAAGGAAGGAGAAGGGAGAGAGA GAAAGGGAATCAAAAAAAGAAGGGAGAAAAACTTGAAACCGG A A G A A A A A A A G G G G A GACCCGGTTAGAAAAAAAAGGGGCAAA A $G$ G A $\mathcal{A} A G G A G G G C C G G G A G G G G G G G G G A A A G G A A A A A A A A T X$

AAAGGAAGACCGGAAAAAAAAAGGGGGGAACAGAAAACAAA GGCCAAAACCAACCAAGGGGAAGGAGAACCCCGGGGGGGAGG G GAA $A \operatorname{GAA} A A A C A G A G G A G A G G A A G G A A A A A A A G A A A A A A G G$ G G A A C A A G A A A A A A A G A CAAGGCCAAAAAGCCGGAAAATTGG G G G G A A G G A A G A G G C C G G A A C C A A A GAGAAGGGGAACCTAT T A A A A A CAGGAGGAAGAAGAACAAAAAGAGGAGAGGBABAABG G GAA A A G G GAAAAGCAGGGAAAAAGGGGAGGAGAGAAAGAAA AGCCCAAGAGAGAACACCGGGGCCAGAAAGAGGAGGGGGGGA A A A A G G A A A A G GAA $A \operatorname{G} G \subset A A G G A A G A C G G G G G G T T C A A G A A G G$ G G G GCGAAGGGAGGGAAACGCCAAGGGGAGGGAAGAGAAAAA
 GAGGAACAGGGGCAGAAGGGAAAAAACCAAAAAAGGAAAAGG AAGGAGACAGGGCCAGGGCAGAAGGGGAAGGAAAAGAAAGAG G G G A G G A A A A G G G G G C A G G G A A G G G G A A G G G G A G G A GACCCC
 G G G G A A G G A C G G A A G G G G G A G G G G A A A A A GAGAA A A A G A GA C G G A A G G G G A A A A A A G G GAGAGAGGAGACAAAAAAATGGAGAA AAGGAAGGAAGGGGAAAAAGAAGGGGGGCGAGCCTTGAGGGG

G G G GAGAAGGGAGACCGGAGGGCCGGAACCAGGAGAGAAAAA A A GAGGCCGAGAACAAGAAAAAGGAATTACCAGGAACBAAAC A GAAGGAACCAGGAGGGGCCAAGGAAGGGGAAGAGAGAAAAC T T GAGGAAAGAAAGAGGGAGGGGGAAAGAACCAAAAGGAAGA GACCCCAAAAGGAGGAAAAAAAAACAAAAAAAGGGACAGAGG AACA $A \operatorname{G} G A A A A G A G G A C C A A G G A A A G G G A G A G G A G A A G G G G A$
 GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACCAAAG C C A A A G GCAAAAGGAAAAAGCCGAGAGGAAAACCGGGGA GAA AAGAAGAGGGAAGGGAAAGGAAGGGGGAGAGGGGGGGGGGAG GAGGAAAGACGACCGGGGAGGGAGAACCAAGGAGGAAAGGGC A G G GCAA $\mathrm{C} A \mathrm{~A}$ A A A CAGGAAAAAAGGGGAAAAGGAACCCCAGAA C CAAAAGGGGAAAAGGGGAAGGAAGGGGGGAAGGAACAAAAA C C G G G G G G A A A A G G G G A A A A G G A A A A G G G GAAAAAAA $A \operatorname{A} G G G G G$ G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGGAAAAAA AA $A G G G A A A A A A A A A A C C C C A A G G G G A A G G G G G G A A A A G G C C$ A A G G G GAA A G G GAAAAAAAGGGGGGAAGGAAGGAAAAGAAAAA C CAAAAAAAAAAGGCCGGAAAAAAGGCCGGGGAAAAAAAAGG AAAACCGGGGGGGGAAAAGGAAAAAAGGGGAAAAGGGGAAAA A A G G G G G G C C G G A A C C G G G G G G A A G G G G C C G G A A G G G G G G G G G GAAGGGGGGAAGGGGGGACGAGAAAAAGAAAAAGAGAACAA A A A A A A G GAAGGGGGGCCAAAAGGGGGGAAGGCCAAAACAAA A A G G A A C C A A C C G G G G GAGAGGCCAGGAGGACAAAAGGAAG G CC G G G G G G A A G A A A A A G G T T G G A A G GAAGGAAGGAAAA G GA A A A A G G GCCCCAGAAGAGGAAGGGGGGCAGGAAACGAAAAAAA GAGGGGGGAAGGGGGAGGGGAAGGAGGGCAAAAGAGAAAAGG
 A G G G A G G G A G G G C C A A G GAA $A \operatorname{AGAGAAGGCCGGTTGGAACAAA}$ A A GAGAGGGAAAGGAAGGAAGGAAAAGGAAGAAACAGAAAAG A GAGGGAGAACAGAAGGGAGGGGGAAGGCGGGGGCCAGCCCC GAGAAAAAAGAAAACCGGGGGGAAGAAAGAGGAGAAAACCAG AAAAAGAGGAGAAAAAAAGAAGGAGAGACACAAAAAGACAAG GAA A A A G G A G G G G G G G G G G G G G G G A G G G A A G G G G G G G G C C A A A A AC G A A G GAA $A \subset C G A G G A A A A G G G A C C A A A A A C A A A A A A G G$ C C G A G G T A C A A A A A G G A A G A A G G G A G A A A A G G A A A A A A G G G G A A A A A C G G A C G A G G A C G G C C G G A A A A A A G GAAAAAAAA A A A A G GAGGAAAGAAGGGAAGAGGCCCAGAAAAGGGAACAAGAGCC A A GAAAAA AAAAAGAAAGAGGGACCCGGAAAAGGGGGGAACA A G G GCCAAAAAAAAAGAGAGAAAGAACAGGAAAGAGAGAABA
 G GAGGGACAGCAAGAAACAAAAGGAACCGAGAAAGGGGAGAA G G G G G A C A GAACACGGAAGGAGAGGAAAGACCTTAAGGCCAA
 A A GAGGAGGAAGAAAAAAGGAAGGGGGGGGGGGGGAAGAGGG
 A A A A A ACAGGTAGAAAGGAAAAACAAAAAAGGAAGGAAAAAA GGGGAAAAGGGAGGAAAAAAGAAAGGCAGGGGAAAAAAGAGAA G G A A A A A A A A A A A A A A A A A A A GAGAGGGTTGACAAACCGCCC A A GAA A G G G G G GAGAGAAAAAAGGGGAAAGAAGGCCCCAAAA C CAG GAA $A \operatorname{GGGAAGGAAAAAGGGAAAAAAAAGGAAGGAAAAGG}$ GAAAAAAAGCAGGAACGGAAAACCAAAAGGCCCCGCGACCAG G GAAAGGAAAGGGGGGCCAAAAAAGGAAGGAAAAGGAAAGAA $G G C C G G A A G G G G G G G G G G G G G G A A G G C C A A A A G G A A A A A A A A$ G G G G G G A A G G A A A A A A A A G GAAAA A GAAC CAA A GAA G GAAAA $A A C C A A G G G G G G C C G G G G A A G G G G G G A A A A G G A A C C G G A A G G$ G G G G A A A A G GAACCGGGGGGAAAAAAAAAAAACCAAAAAAAA G $G \operatorname{G} G A A G G G G G G G G G G G G A A G G G G G G G G G G A A G G C C A A G G A A$
 G GAAAAGGGGGGAAGGAAAACCAAGGAAAAAAGGAACCAAGA

A A G G G G G G G G G G G G G G A A A A G G T T A A G G C C G G G G G G G G G G G G AACCAAAAGGAAGGAAGGAAGGCCGGAAAAGGGGGGAAAAAA GGGGCCAACCCCGGAAGGGGAAGGAAAAAAAACCAAGGGGGG AAAATTGGAAGGAAGGAAAAGGAAAAGGAAGGGGCAAAGGGG
 A A A A G GAA $A \operatorname{GA} A \operatorname{A} G A A G G A A A A G G G G G G G G A A C C G G A A G G A A$ A A G G G GAA $A \operatorname{GAA} A G G G A A A A A A G G G G A A A A A A A A G G A A G G G G$ AAGGAAAAAAAAGGAAGGAAGGGGAAGGAAAAAAGAAAAATT A A T T G GAA $A \operatorname{GAAAAACCAAGGAAGGAAAAGGGGGGGGGGGGGG}$ AAAAGGGGGGGGGGAAAAAAGGAAGGGGCCGGAACCGGGGTT CAGGGGCAAACCCAAACCGGGGGGAAAAAAGGCAAGGAGACA A G GAAGAAAGGGAAGGCCCCAACCAAAAGGAAAAAAAGGGGA GACAAGAACGGAGGAACAGGAGGGTTGACCGAACCBAACCGG A A GAA A A G A G CA $A \operatorname{A} G A G A A G G A A G G A C G G G G G G A A C A A C G G G C$
 G GAAA AAGGGAGGAAAGGAAAAGGAAAAAGGGCCCAAAACAAA GAAGAGAAGGAAGGAAAAGAGAGAAATTAGGAACGGGAGAGC C C GACCAGGGAAAAAAAACAAGAAAACCGGGGAAAAAAAACC $G G C C G G A A A A C C G G G G G G A A A A G G A A A A A A G G G G A A A A G G A G$ A A G G A A G A G G A A G G G G G G G G C C A A G GAAAAAAAGAAAGGCCGG AAGGAAGGGGAAGCGGAAAAAAGGATAAAAAGAGCCAGGGGG AA $A \operatorname{GGGA} A A A A A A A G G C C G G G A A G G A G G A A G G C G G G A A A A C C$ GCAA $C$ C $C G G G A A G A G G G G G A A G G G G G G G G C C G A A A A A G A A A G G$ A GAGAAAGGAAAGAGAAGCAGGGAAGACAGAGAGCAGAAGGG GACCGCAAAGGGAAGAGGAACCGGAAAAGGGGGGGGAAAGAA
 ACGACAAGCCGGGAAGAAAAGACCAAGGAGAAAAAAAAGGGG TTAGAAAAAAAACAACAATACCAAGAGGAGGAGACAGGGGGA
 CAGAAACAACAACCGGAGAACCAAGGGGAGAAGGGGGGAGGA C C C C A A G A A A G G C A G A T T G G G G G G G G G G A A A A G G A A G G A G G A GACAGGAACCAAGAAAGGGGGGGAAACAGGGGGGGAGAGAAA GAAACCAAGGACAAAAAAGGGGCCAGGGACAAGGCCGAGGAAA
 A ACC G G G G A G A GAA A G G GCCGGAGGGAGAAAAATAGGAAAAG GAAAAGGGAGAGAGGAGAAGGACCAAGAGGAAGAGAACGAGG A GAA A A A G G G G G GAAAGAGGAGAATTAAGAAAAAAGGA GAA G GA GAAAAAAAGGAACCCCGAGGAACCAAAGAAGGAGGGGGGG
 G GAACCAAAAGGGGCCGGGGCCAAGGACAGCCCCGAAAAAAG GAGGGGTAACGGTTACGGACAAGGGGGGAAGAAGGGA
$A G A A G A G A A G A T A C C G G G G G G A G G A G G A G A A A G G G A G C A A G$ G GAAGGAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAACAGA GAGAGGAAGGAGGACAAAGAGAAGAGGGGACCGAAGGAAGAG G GCAGAAAAAGGCAGGGGGGAGCCAAGGGAAAGGGACCAAAC A A A G A A T T A A A A G A A G G G G G A A G A A A A G C C G G G G G G C A G G A A A A A A G A G G A G A G G G A G G G A G A G C C G A G G G G G G A A G G G G C C G G AAATAGGAGGAGAAAAAAAGAGAAGGAGAGGGACAAAAACGG A GAGCCGGGGAACAGGGGAAAAGGAAGGCCACAAGGAGAAAA A A A C G A A A G G G A GAGGAGAGGAAGAGGGGAAGAGGGGAAGAA G GCAAGGAAGGAAGAGGAGGGGCAGGAAAAACCCGGAAGGAA A A G G A A G G G G G G G G G G G A A A A A $\mathcal{A} G A A G G A G A G A A G A A A G G C G$ A GAA $A \operatorname{GCA} \mathrm{C}$ GAGGGAGGAAGGAAAAGGAAAGGAAAGAAAAGAG AAGAGGCCGGGAAGCCAGAAAGCAAGAGAGAGAGCCGGGGGG CCAGAAGGAAAAAAGAGGGGGAAAGGGGAAAAGGAAGAAAAA

 A A A A G GAA A G A A A G C C G G A A A A A G G GAGGGAGAAA A A A A A A G G GACCCGGGAAAGGGAAGGGGAGGACCAGGAGACGGAAAGAG

A G G G G GAAAAGAGGAGAGAAAGCCAGGGGGCCGGAGGGAAAG

 $A C C C G G G A G A C C G G A A A G G G C C G G A G A A G A G G G G A A A A C C C C$ A G G GA GAGAAAACCAGAAGAAGGGAACAAAAGGGAGGGGGGG A A A A C C G G A A A A G G G G G G A G A A G G GA G G A CAA A A G GAC C C G G A A G G G A G GCCCC G G A G A GCAAGGGGGAGGAAGCAAGA GAGAA A G G G A A A GCC G GA GAGAGAACCAACCGGCCAAGGGGGGAC G G A G G G A A A A C C G G A G A G C C G G G G A A A G A A A C G G G G C C G G A G G A G G G GAAAAAGGGCCAAAAGGAACCAGGGGGGGAGGAGGGGGG GAA $A \operatorname{GGG} A A A A A A G G A A A A A A A G A A G G G A A G G A C A G A G G G G G$ G GAAGGCCGGGAGAACGAAAAAGAACAGAAGAGAAAAGAGGG
 G GAAGGAGTTAGAGACAGGAGGGACCAAGAGGGGAAAACCGG G GAAGGAGGGAAGACAAAAAGGGGAGCCAGAAAAAAGGGGAA G G G GCCGAGGAGGGGGCCAGCAAGGGGGAAGGGGACCCGAAG A G G GAACCAGAAAGGAAGGGAAGGAGAAGAGGGAA GAGAGTA G G A A G A G G C A A A G A G G G G G GAAAGAAAGAAGAGAAAAA G G T T G G A A A A $\mathcal{A} G G G G G G G G A A C G G G G G G G A G G G G G G A A G A A C A A G C$ AAAGGGAAGGAAAGGGGGCCAAGGCCAAGAGAAGAGAACAAA GACCGGGGAGGGCAGGGGCCGGAAGAAAAGGGAAGGCC GATT
 G G G GCACCAAAAAAAAAAGGAAAGCCGGCCGGGAAAGBAACC G G A A A A G G A A G G A A A A C C G G G G A A A A G GACCC G GCCAA G G C C

 AAAAAAAAAAAAGGGGAAAAAAGGAAGGCCGGAAAAGGGGGG A A A A A A A ACCGAAACCAAAAACAACAAAAGGAGGGGGGAAAG G GAGGGCCACAAAAGGAAAAGAGAAACAAGGGAGAGAGAAAA C GACAGAAAAAGGAAAAAAAGGCCAGGGAAAAAAAAAACAAA A A G G A A A G G GCGGGCACCAAAAGGGGGGAGGAGGGACCAGAG $C \subset A A A G G A G A C C C C A A C C G G A A A A G A A A G G A A C C A A A G G A A A$ GAAAAACAGGGGAGAGCCCCCAAAGAGGAGGGGGAAAAGAAG A GAA A G G G A G A G G G A A A A A TGGGGGACAAAAAGAGGAAAAAC AAGGAAAAGGGGAAATCAAACAAGAAAACCAAAGCCACAAAA AC G G A A G G A A A A G G G G A A A A A A C C G G G G C A T A A A C A G A C C G G GAAAAAAGGGAAAGAGAAGGGGGGGGGGACAGAAAAGAAGAA A GAGAGAGAGAGAAAGGGGGAAAACCGGGGCCGGAACAAAAA AC G A G G A C A C G G G G A A A C G G G G G G A G G A A G G C G G G G G A A G G G GAGGAAGGAGGGGCAGGGGGAAGGGGGACCAAGGAGCCGGGG G G CA $\operatorname{G} A C C A A G G G G C C A A G G G G G A T T A A A C A A C C A A A G A A G G$ GAAAAGGGCAAGGGCACACCAAAAAAGGAGAGGAAAAACCAC C C A A C A A A G GAAAA A GAAGGGGAAAAGGGGGGAAAACCAAAA A A G GACAGGAAAACAGAGACAAGGAAGGCCGGAAGAAAAAAG GAGGCCGGAACCGGGGAAAACCGGGGGGGGGGAAAACCAAAA A A A A G A A $\mathcal{A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAGGAGAGGAAGGGAAAGGATCAAAAAA G G GGCCAACCAGAAGGAAAGGAGGAGAAAAGGAGAAGGAGAC G G A A A A A G A A A A GA A GAAAAAGCCGGGGGGATAAGAAAAGCC AGGAAGAGCCAAGGGGCCAAAAGGAAAAAAAAAAGGAAAAAA $G G A A A A C C G G A A A A G G G G G G A A A A G G G G A A G G G G A A G G C C B G$ A A A A A A A A G G A A G G G G G G A A A A A A A A G GAA $A \operatorname{GGGGA} A G G A G A A$ G G G GAAAAAAAAAACCAACCAACCCCGGCCAAGGAAAAAAGAG G G A A A A G G A A C C C C A A A A A A G G G G A A A A A A G G G G G G G G A A G G G GAATTAAAAAAAAGGAAAACCGGGGAAAAAACCCCGAAAAA AAAAAACCGGGGGGGGAAGGAACCGGGGAACCAAGGCCAAGA A A A A G G A A G G G G G G G G C C G GAA A G A A A A G G G GAAAA A G G G A A AACCGGGGAAAAAAAAGGAAGGAAAAAACCGGAAAAGGACAA A A G GCCAACCGGAAGGGGAAGGAAGGCCGGAACCGBAATTGG $G G C C A A G G G G A A A A A A A A A A G G G G A A A A G G A A A A A A G G C C G G$

G G G G A A T T G GAAAAAAGGAAAACCCCGGGGCCGGAAGGTTGG1 G G A A A A G G G GCCAAAAAAAAAGGAAGGAAAAAAAA G GAAAGAA
 AAAAGGAAAAAAAAAAAAAAAAAACCGGAAAAGGGGAAGGGG G GAA A G G GAAGGGGCCAAGGGGGGAAAAAAGGGGAACAAAAA G GAAAAGGGGAAAAAAAAAAGGGGAAAACCGGAAGGTTAAGG G G A A A A G G G G G G G G A A A A A A A A A A C CAAAAAA A G G GAAAC G G $G G G G A A G G A A C C G G A G A G A G G A G G G G C C A G A A A A G G G G A A A A$ GAGAGAAAAAAAGGGGAGAGGGAAGGAGCAGAAAGGAACAGB G GCAGGGGGAGGAAAAGGAGGGGAAAAAAAGAAAAGAAAC AA G G G A A A T TAAA A A A A G GAGGAAAAGGGGCAGGGGAGTTAAAA T T G G G G G G G G C A A C A G G A G G C A G G G G A A A A A A G G G G A A C C G G G G G G A A G G A A G G G G A A G G A A A A GGAACCGAAAAAAAAACCAC $C \subset A G C A G G G G A A G G G G A T G A A A A A C A A G A G C C G G G G C A C G G G$
 A A A A A A A A A A A ACCGGAAAAGGCAGGGGGAAAGAGGGAAAGA G GAGGCGGAAAACCGGGGGGAGAAAAGGCCGGGGAAGAXAAG G G G GCAGGCCCGAAGAGAGGGGCCACGAAACCAA GAGGAAGG AAACGGGACCGGACCCGGGGGGAAAGAGACCCCCAGGGACAG A G A G A A A C A A A A A G G A G A G G G A G G A G A G A A A A G G A G G A G G G G A A A A A A T TAGGGGGAAAAAGAAGGAAAAGGGGAAAAAAGGGG A A GAGGCCGAAGAGGGAACGAGGGAGGGGGAAAAGGAGAAAG GAGGGAGAAACCAAAAGAGGGGGGCCGGAAGGAAAAGAGGGG G GAGGAAGGAAAAACCAGGGGGGGAAAAGGAGGGAAAAGGAA $G G A A G G A A A A G G A G A A C A A A G G A G G G A A A G G A A A A G A G A A A A$ A GAGAGACGGAAAGAAGGGGAAGGGGGGGGAAAAAAAAACAG GAAAGGCAAGCCAGAGAAGAGGTTAAGGGGGGAAGGCCAGAG GAAAGGACGGAAAACCCCGGAACCGGGGAAAAGGGGAAGGAA AAAAAAGGGGCCAAGGGGGAGGAACCAAAAGAGAGAAAAAGG AACAAAAGGGGGAGCAAAGGGGGGGGAAAAAAGGCCGAAACC ATAGAGCAGAAAGAGGGCGGCCAAAAGGCCAAAACCGAGGCC AGAGGGAAACGGAAAGAAAGAAAGAAAACCAAAGCCAAAGGA G G G GCCGGAGGGAGGGAAAGAACCGAACAAGGAGAAAGAAAG C CAAGGAAAAGGAGAAGGAAAAGAAAAGGGCAAAAAAAAAA C C G G A G G A G G G A G A A C G G G A A G A A G G A A C G A A A A GAAA G G A A A A A G G GAA A G G G A A A A CA $A$ A A A A GGGACAGGAGAA GAAAAG GA GAGGAAGAAAAAGGGGAGGAGGCCAAAACCAAAAAGAGAAGG $C C G G C C A A C C G A A G G A A A A G A A G G G G G G A A T T G G G G A A A A A A$ AACCAAAACCAAAAAATACAAAAACCAAGGGGAAGGAAAAAA A ACCAAGGAAAGGGAGAAGGGGCCACGGCCGGAAAAGAAAGA GAACGAACCACAAAGGGGCCCCAAGGCCGGAACCGGG
GAAGGAAGGCCAAAAAAGAGGAGGGGGAGGGAAAAAGGAGG $A G G A G G G G A G A A G G G G C C G G C C A G A G G G G A A G G A A G A A A A G B$ $A C A A C A G A G A G G G G G G A C A A G G G G C C A A A A G G G G A A G G C C G G$ GAGAAGAAGAGCGGAAAGAGAGACAAAGAGAAAGGACAACAC A A G A A A A G A A A G G G A G G G G A G G A G A GACGGAGGGCAGAAGAA C C A GCGCCGGGGAAAAAAGGGGACGGAAGGGGGGAAGAGAGB AAGGGGAAGGAAAAGAGAGGCCAGGACCAGGGAAAGGAAACC AACCAAGGCAGAGAAAGAGGAGGGGGGGGGAGGAAAGAAACC C C G G G A G GCC G GCCAGGGCCGGAAAAGAGACCAAAGAAGGGG GAGGAAAAAAGGAAAGGAAAGAGGAAGGGGGAAAGGAGAGAA AA G G GAGGGAAATTAAAAAAAAAACCAAAAGGAGCAGACAAG GACCAGAGAAGACCAGGACGGAAAGGGGCCTTAACCAAAACC AA A G G GAAAGGGGGGGGGAGAAGACAGGAGGAAAGGGAGAAA G G G G G GCCA G A A A C A A A GAGGAGAGGGGGGAAGGGGAAAAAA GAAGGCGGGAGAAAAAAGAGGGAAAAAAAACCCAGAAAAAAA ACCCCCGGAAGAGGAGGGAAACAGAGAACCAAAAGAGAAGAA A G A A A GAAAAGGCAGGCCGGCCGGGGAAAGAGAGAGAGAAGB GAAGAAAGGGGGAAGGGAGGAAGGAGAAGGGAGAAGAACC A A

A GATAGAAAAAAGGAACAGAAAAAGGGGGGGAGAGGGGAAGA GAAGGACAAGGGCAGGAAGAACAAAAAAGGAAAAGGGGGGGG G G G G G G G G A A A GAA A G GATXAACCAAGGGGAAGAGACAAAAA AAGGGGCCGGAAAAAGGACCAAGGGGAAAGCCGGCCAAGGAA G G G GAA A G G G GAAC CA A GAGGGGGGGAAAAAAAAGGAAAGAA G G G G G A G G G G G G G A G G G A G A A C A G G G A G A G G G G G A G G A A G A A G G G G G A A A GAAACCAAACGAAAGGCCGGAAAAAGGGGAAAAA G GAGGGGGAAGGAGGGGGGGAAGGGGGAAGCCAAGGGGAAGA G G G G G G G A G G A G G G G G A A A A G G G G A G G G A A A A A A GACAAA $\mathcal{A} G$ G GAAGGTTAAAAAAGGGGGAAAGGGGGGAAGGAGGAGAAAAA G G G GCCAAGGAGGAAACAGAAAGAAAGAAGCAAACCGGAGAA C C G GCCGGGGAAAGAGGGGGACAGAAGGAAGGACCCGAGACC
 G G G A G C A G G G A C A C G G G G G G T A A A G G G G G G A A A G A G G G A C A A G G G GAA A GAGGGAACAGAGGGGAGGAGGGAAGACCAGGGGGG GAAGCCAAGGGGGGCCGGAAGGGGCCGGCAGACCAAGGAACA AC G GACAAACAACCGGAAAAAAAGCCGAAAAAAAGAAGGGGG G G A G G G G G T T A A C C G G G G G G G G G G G G A A G G G G G G A A A A G G A A G GAAAAGGAAAAGGGGGGAAAAAAGGCCAAAAGGGAAAAACC A A G G G A G A A A G A G G A CAGCAGAGAGAGAAGGAAGGAGAGACC AAAAGAAGGGCCGAGGGGGGAACCAAAAAAACAGGAGGGGGA A A A A G G G G A G G G A A A G T A GAA G GAAAAGAAAGAAAA A A T TAA A A A A A G G G G A A A T G GCCAGCAAAAGGGCACCAGGGAGAACAAG C C C A A A A A GAGAGGGGAAGGGAAAAAGGAGAAGAAAAAAAAA $A G A G A A A G G G G G A C G G A G A A A A G G A G G G G G G G G A A A G A A A A A$ G GCGGGGAAGGCAGAAAGGGCAGGAGAGGGAGAAGAGAGAAA G G G GAGAGAAGGAAGGAAGAGGCCCCGGAGAAGAAAAGGGGG GACCAACAAGAACCAAGGAACCAGGGGGAGAAGGCCGGAGAA G G GAAA A G G GACCCGGAGCCTAAGAGAAGGAAGGAAGGAACC C CAAC G GAGGGACCAGAGGGGGAAAAGGGGAAAGAAAGAGGA AAAAGGAAGGAACCGACCGGAGAGAGAAGGAGCACACAAAAC $C \subset A G G A G A G G A A G G G G G G A A G A G A A G C A G G A A G A G A G G A A C A$ C CAA $A \operatorname{GAA} \mathrm{~A}$ GAAAAAAAAAGGAAGAAAGGAGAGGGGGACAAGG G G A G G G A A A G G G A G G G G G A G G G G G G G A G G G G G C C G G C C A A C C $G G A A A A G G G A A A G G A A G G A G A A A G A C G A A G G G G G C C G G A G A G$ ACGGAAGGGGAAGGGGACAAGAAACCAGAGCCGGAAGBAAGG A A A A A A A A A A A A G G GAACAAAAAAAAAACCAAA GCCGGACAA AAGGAGGAAAGAAAAGCCGGAGAAAAAAGGGGCGGGAAACAA A A A A A A G G A A A A G G A GCCAAAAGAAGGGGAAAAGAACA GAAA G G G GAA $\operatorname{A}$ GAAAAAACAAACAAAGAAAGGAAGGGAAAAAAACC C CAA A G G GAGGGAACCGGAAGGAAAGGGGGCCCCGGGGAGAA
 CAAAAGGGAAGGAAGAAAATGGGGAGAAAAAAAAGGAGAAGG G GAGGAACAAAGCCGAGAAAAAAGCCCCGGACCAAGAAGABA A G G G A A A A G G G G G G A G G GA $A \operatorname{GAAAAAACCGGGAGGGGAGAGAA}$
 G G G G A A G A C A G GA G TAAAAA A A A A A TAAACAAACA GAC G GA A A G G G T TCCGGGGAAAAAAAGGGGACGGGGGAAGGAGGAACAT AAAAAAGGAAGAAAGGAAGGAACCAAGGAAGACCAAAGAAGG G G G G A C G G A A G A G G G G G G C C G G A A G G G G G G G G G G G G G G A A G G GAGGGAAAGGAAAGGAAGAGGAAGAAGGGGAAGAGGGAAAAG
 A A G G G GCCGAGGAGAAGGGGAGGGAAAAAAAAAAGGGAAA G G $A$ G GAA A GAGGGCCAAGGCCGGGAGGGAAAGGAGGAGAAAGAAA $C \subset G G C A A A A A A G G A G A A A G G G A G G G G G G A G A A A A A G G G A G G G$ G G A A CAGAGAAAAGCCGGAGACAAGGCCAGAAAAGCCCACAG GA $A \operatorname{G} G A A G G G G G A G G A A G G A A G A A G G A C A G A G G G C B A G A G A G$
 G G G G G A GAAAACAGAAGGAGAAGGGGGGGGAGGAGGAGAAGA

A GAGGAGAGGGAAACCAGGGAAAAAAAAGGAGCCGGGGAAAA G GAAAGCCAAGAAAGAAAGAAGAGGGCCAAGGAAGGAACAAA $G G A A A A G A G G G G A G A G A G G G A A A A A C G C G G G G A A G G A G A A G A$ AAGGGGAACCGGGAAACGAAAGGAAGGAAGGGCAAAAAAAGA AAAAAGCCAAAGGAAAGGGGGAGGGGGAGAGAAAGGAGAGCA ACGAGAAAAAGAAACCAAGGGGAAAAAAAAGGCCCCATAAGG
 GACAGAGAAGAGAGGGAAAAAACAAAAAAGGAGAAGGAATCC ACAAGGCCCCACCCAGCCGGGGGGGAACGGAAGAGAAGAGCA G G G G G GAAAACCAAGGAACAGGAAGGGGAAGGAGGGAAGGGG G GAGAGGAGGGAAGGGGGAAAAGGAGAGAAGGGGCCGGGGGG G G G G C C G G G G G G A A A A $\mathcal{A} A A A \operatorname{A} A G G G G A G G G G C T T A C G G A A G G$ A A G GCAGACCCCAGGGGGGAGGGGCCAACCAAGGAGAGAABA $G G A A G G C C G G G G G A A A A A G A G A G G A G G G A A A A A G A G G G A A A G$ TTGACACAGAAAGGAAAAGGAAGAGAAGACAGGAGGAAACAG G G GAGAGGCCAAGAAGAAAGAACCGGCCAAAAGGACAACCGG G GAA A G G GCC G G A A A A G G G G G G A A C C G G G GAGGAG GA G C A A A G GAGGAGACAGGCCGGAGAAGGGGGGAAAACGAAAGGGAGAA $G G C C A G G G A A A A A A G G A A G G A G A G G G A G A G A A G A A G G G G G G G$ A G G A T T A A G G A A C C G G A A G G C C G G G G C C G G G A G G G A A G A G A G GAGAGGAAGGGAAAGGCCAGAAAGAAAAGGCCAAAGAACCAA A A G G A GAGGGCAGGAGGGGGACAGCAGGAAGGGGGGAAAAAA C C G G A A A A A A A A C CAA $A \operatorname{AGGGGGGGCCAAAAAAAAAAGGGGGG}$ A A A A A A G G G G A A G G G G A A A A G G A A G G G G A A G G A A G G A A G G G A A G G GAA A GAGAAGGAGGGAAAAAGCGAAAAAAAGGAGGAAGA G GCAGGAAGAATCCGAGAGGAGGAGAAGAGGGAGAAGAGAAA G G GAGAGGAGCCCAGACAGGGGAAAGGGGCCAAAAAGGAGGG A A A A G A A G A A A A G G A A CAAACAAAAAAAGGAAAAGGGGGGAA GATAAGCCAAAAGGCCTTCCAACCAAAAAAAGGGAACAGGBA $G G A A A C G G T A G G G G G G G A A A G A A A G A C C G A G G G A A G C A G G A A$ A G A G A A A $\mathcal{A} G A G G G G A G G A A A A A G G G G G G G G A A G G G G B A B A C C$ G G G GAGAGGAGAAAAGCCGAGGGGAATAAAAGAAGAGAAGAC G GAGGACGAAAGGAGAAGGGGGGGAAAAAGGGCGGAGGGGGG A G G A A A A A G G A A G G G GCCGGAC GAGGAAGGCCAAGCAGAGAA A A A A A G G G GAA $A$ A A G GACAAACAAGAGGAGAAGAGGGGAAGAG G G G GAGCCGGAGGAAAGGAGAGGGCACCGGAGGGGAAAGGGA GAGAAGAAGGCCGGGAAAACGGGGCCGGGGCAGAAGAGGGAG AAAGGGGAGAGGCCACACGGGAGAAAGGAAAAGGAGAACCAG A A C G A A G G A A A A G G A A A A G G C C A A A A A G G GAAAAAA A G G G A A G G G G A A A C A G A A A G A GAGGGGGCCGACAGAAGGAAGCCAA GA GACAAGGGGAGGAGCCGGAAGGAAGGAGGGAGGGAGG
 A GAGGAGGAAGGGAGAGGTTAAAAAAGGGGAGAAAAAAGAAG A GAGAAGGCCGACCACAAAAAGAGGGAAACAGAGGGGAAAGG G G GACCGGGGGAGGAAGGAAGAAAAGGGGACCGGCACAAGAA GAAGGGGGGAGGGGCCGGACGGAAGGCAAAAAGAGAAACAAG A A G G G A A A A G G A A G G GAAA A A A A A A A G C C GA GA G G G GA G G G G G CACCAAAAAACAGGGGGGGGGAGATAAGGAGGGGGGGAAAGG G G GAAAGGAAGGGGAGGAGGAGAAAAAGAAAAAAAAAAAAGG G G G G G G A A G G A A G G A A A A A A $\mathcal{A} G G G G G C C A A G G G G G G G A A A A A$
 C CAA $A \operatorname{GGG} G A A G G A A A A A A G G A A G G G G G G G G A A G G G A A A G G A A$ A A A A A A A A C C T T G G G G A A A A G G T T A A G G G G C C A A G G G G C C G G G GAAAAGGAAGGGGGGGGGGGGGGAAGGAAGGGGAACCGGGG G GAA $A \operatorname{GAAAAAGGAAAAGGAAGGAAGGAAGGAAGGAAAACAAA}$ A A G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G A A G G G G A A A A A A A A A A G G G G G G G G G G G G A A A A G G A A G G $C C G G C C A A A A G G A A A A G G A A G G A A C C A A G G G G A A A A A A A A A A$

G G G G A A A A A A A ACCAAAAGGAAAAAAGGGGAAAAAAAAAAAA A A A A A A G G A A G GAAAAGGAAGGAAAACCGGGGAACCCCAAAA A A A A C C G G A A A A A A A A A A G GGGGGGGAAAAAAGGCCGGAGAA G G G GAA A G G GAAGGAAGGCCCCAATTGGAAGGAAGGAAAAAA AAAAAAGGAACCGGAAGGAAAAAAGGCCAAGGAAAAAACAAA A A A A A A G G G G G G G G A A G G G G A A G G G G A A G GAAAAAA A $A$ A G G A A A A G G A A C C G G G G G G G G G G G G A A A A G GAAAAAAG GAACAAAAA G GAAGGGGAAGGAAAAGGGGAAAAGGGGCCGGAAGGAAAAAA A A G G A A G G C C A A G G G G G G C C A A G G G G C C G G G G G G C C G G G G A A G G G G G G G G G GAAAAGGAAAACCAACCAAGGAAAAGGAAGAAA G G G GAAAAAAAAGGGGGGAAAAGGGGAACCAAGGGGAAGAAA G GCCAAGGGGAAGGAAAAAAAAGGAAGGAAGGGGGGAAAAAA A A A A G G A A A A A A T T C C G G G G G G A A GGGGGGAAAAAAAAAAAA AAAAGGAACCAACCAAGGAAAAGGAAGGGGAAGGGGAAGGGG $C C G G G G G G G G A A A A C C G G G G G G C C C C A A G G G G A A A A A A A A G G$ AAAAAAAAGACCGGGGAAAAGAAAAAGGAGGAAACCGGGGAA C C A A A A A A G GAAAA $A \operatorname{AGGGCCGGAAAAAAGGAAAAAAAAGGAA}$ G G G G A A A A G GAAAAAAAAGGGGCCGGAAAAGGAAGAAAAACAC G G G G G G A A A A $\mathcal{A} G G G G G A A G G G G G G G G A A G G G G G G G G G G A A A A$ T TCCAAAAAACCAAAGAGGAAGCAGGCCGGGGGGGGGGCAAA G G G G G G G GAAAAGGGGGGAAGGAGCCGAAGGAAGGGAAGGGG GATAACAAGAGAGGAAGGAACCCCAAACAAGGGGGAGAGGAA A G G GAA A GAGAGGGGAAGAAGGAGGGGAGGAAAAAAGGAAGA G GAGGACCCGGGGAAGAAGAAGAGACGGGGACAGAGAACCAG A A A A A A A G G GAAAAAAGGCCGGGGAAAAAAAACCCACACAAA GAA $A$ A GAAAACCAAACAAGGAACCGGCCGGAGAAGGGGGGGG AAGGAGCCCCAAGGAAGAAGAAGGGAAGGGAGAGAAAGAGAG A GAAA A A A GAAACCGAAAAAGGGGGGACGGGGAGGGCCAAGA G G G G A A G G A A G G G G G G A A A A G G A GAGCCAAGGAA G GA G G G A G AAGGGGAACCAAAGAAAAGGGGAAAAAAAGGAGAAGAGAGAA A A GAGAGAGAGAAAAGAGAACCCCGAAGGAGAGGGAGAAGGG AAAAGGAAAAAGCGGGAAAAGAGGGGAAGGCAGCGAAGAAGG
 GAAGGAGGAGGGAAAAAGAGAGGGGGACAAAGACAAAAAAAA GAGGGGACGGAGACAAGACAGAGAGGAGGAAAATAAACACBA AACCAAAAAGAGGAGAGAATCCCCGAAGGAGGAAAATXAGGG G G G A A GAAAAGAAAGGAACCGGAGGGGGGGAAAAAAAAAACA G GAAAAGGGGAAGGGGAAGGCCGGGGAACCAAGGGGAAACAC G A A A A A A G A A G GAAA $A$ A A A A GAGGACAAGGAGAGAGACCCACA CAAGCAGGAAAGAAAAAAAAGGAAGGCCAAAAAGGEAAAAGB G G G G A G G G G G G A C C A A G GACGGGGAACCAGCACACCCAACAA G G C C A G G A A A A A G G A A A A A A G G G G A G G A C C G A A A A A A A G A A G GAAGGGAAAAGGGGCCGGGAAAAAGAAGGGAACCAGAAGGCC A A A G G GAGTTGGGGAAGGGGCCGGAAGGGGAAGGAAAAAACA G G G GCCGAAAAGAAGGAGAGAAAAGAAAGAAAGAAACACAAA G G G G A A A G G G G G C A G G A G A A A A A A A A A A G G G G C A C A G A G G C C A A G GCCGGGGAACCCAGGGAAAAAGGGGAGAAAGGAAA G A A A A A G GAGGGGGGAAAAAAGAGGGACAAGAAAAAAGGGGAGAAAAAG A G G GAA A G G G GACCAAAAGGAAAAGGCCCAGAGGGGAAAAAA A A A A GACCGGGACCCCCAAACCGGAAGGGGTTAGGACCGGGG GAAAACGGGAGGGAAGAAAAAAAAAGGGAGGGAAAAGGAGAA AA $A G A A A A A G G G G G T T A A A A C C G G A A G G G G G G A A G G A G A A G A$ GAAGAGAAGGCCGACCGGAAGGAGGGCCGAAAAGAGAATTGG G GAAAGGGGACCGAGAGAGAGGAGCACAAGACAAAGCGGAAA $A G G A G G G G C C A A A A C C G G G A A G G G G A T A G G G G G A G G G G A A G A$ A A A G G G A A GACAT TAA A $A$ A $\mathcal{A} G G G G A A G G G A A G G A A A G A G A A G G$ AAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGGAG A A GAG GAAAGGACAGGGACAAGAGACGGAAAAGGAGCGAAAA AAGAGGAGCAGAAGGGGGAACAAGAAAGAGGGAAAGAGAAAA

GGCCAAAAAAGGGGAAAATTGGGGGAGGAGAAGGAAAAAAGA A A A A G G G G A A G G G GAACC G GAAAAAGAGGCCGGAGGGGA GAAC A C A T A GAAA $A \operatorname{G} G A A A A A T T A A G G A G C A G G G G A A G G A C G G G G G G$ GGCCGGAGAAAGCAAACCGGAAGAGAAACCGGAGGGACAGAG A A GAAACCAAGGGGAAGGCCGACCGGCCGGAAAAAAGAAAGG G GACGAAAGGGGAAAAGGAAAAAAAAGGGGCAAAAGGAAAGG G G G G G GAA $A \operatorname{GAA} C \subset A G A A G A G G A G G G C C A G A A A G G A G G A A G G$ AAGGAAAAGGAAAGGAGGGGAAGGGGACCCAGAAGGGAAACC A A CACCGGAAAGGGGGAAGAGGGGCCGAGGAAAACAGAAAGA AACCAAAAAAGAGAAACCCCAGAGACGGAAGAAAGAAAGGAA ACCAGGGGGGGGGGGGAAGAGGAAGAAGAAAAGGAAACGGAG G G A A A GAGCCAAGGGGGAAAAGCAGGAGGGAAACBAAAAA G G $A$
 A G A G C A G G G G G G A A G G G A G A A A G G A A A C A GAAAAAA A A A C C G G G GCCAAAGGAGAAAAGACGGAACCGGGAGGAGAAGGCCAAAA AAAACCAAAAGGGGAAGGGGGGAAAAAAGGAAGGGGAACAAA A A G GAAAAAAGGAAGGAAGACAAAAGGAAGAGAGGGGGAAAA G G A A A A ACCCAACCGGAAGGTAGGACAAAAAACCGGGGAAAA AACCGGGGAAAAAACGAAGACACCGGACAAAAGGGAGGAAAG
 AGGACCAAAAGGAGGAGACCAAAAGGGACCCCGGAGAGAAAA G GAACCGGGAAAGGAGAGCCGGAAGGAAACAGAAGGGAAAAA A A G G G G G G G G G G G G C A G A C A A A A A A A G G G G G G A A G G A G A G A A A G A A A GCCCCGGACGGCCGGGGGGGGGAAGAGGACAGAAGAG A A G G G G A A G G A ACC G G A A A GAACCCCGAGGGAGGACCAAAAA GAAAGGCAAAGAACGGGAAGGGAGGGAAGGAGGA GAAAAGAA G GAGGGGGAGGGAAAGGAAACCGGGGGAGGAAGGGGAAAAGA

 G G G G G G A G A A A G G A G GAGGGAGAGGAGGAAAAAAAAGGGGGA G G G G G G G G G G A A C C A A A A A C A G A A G G A A G GAA G G GACAACA A $G G C C A A A A G A A G G G C G A G A G G G C A G G A A C C G G G A G G A G A G G G$ C C A GAA A A A A GAGGGGGGGAGAACAGCAGAGAAAGGGAAAAA G G G GAAAAAACCACCCAGCCCAACGAGGAACAGGAAAGATGG G G A G G G G G A A G G G A A A A A G A C A G G A A G G T T GA G G G A A G G G A G A G A G A G G A G G A A G G A C A A G A G G A A A A G GAGGGGAAACA A A A G A G G G G A G G A C A GAGGAGGGAGGACAGGGCCAAGAGGGAAGAA CAAAGACCCCCCCACAAACACCAGGAGGAAAAAAGAGGAGAA
 CCAAAAGGAACCCCAGAAAAAAAAGAGCAACCAAAGAAAAAG A A A G G G A A G G G A A GCCGGAACAGGGGGAAAAACCAAA
GCCGGCCGGAAGGAGGGAAAGGGCCAACCAGGGGGCAAAGG GAAAAGCCGGAAAAAAGGGGGGAACAAAGGAGAAAACAGGGG
 $A G A G A G G A G A G G C C G G A A A G G A A A G G A A G G G A A A A G C A G A G A$ A GAGAGGGGGGGAAAAAGGGAAGAACGAAGCAGGGGCABACC C C G G G A C C G G A G A T G G G A G G A A G A A A A G G A G G G G C C A G C C A A G GAGGAAGAAGGAAGGGGAAAAGGGGAAAAAAGGCCAACAAA A A A A A A G A G G A GA $A$ A $A G G G G A G G G A G G G G G A A G G A G G G A G G G$ G G G G G G A A A G G G G G A A G G A A A A GAGGGGGAGGAAGGAAA GAA A GAGAGGAGAAGAAGAAGAAAGACAGAGCCGGAAGGGAAAAA AAAGAGGGAAGAAAGAAAGGAGAGCAGAACCCAAAAAAAABG A GAA A G G G A A C C G G G G G G G GAACCCCGAGGGGGGGGGGAAA G G GAAGGAAAGGGGAGGCCAAAAAGAGACGAAGGAAAAAGAAA G G A A A GAGAAAAAGGGAAGGAAAAGGGACCGGGGAAAGAGCA $A G C C A A A A G G G G G G G A A G A G G A G A A A A A G G A A C C A A G G A G A A$ G GCCGGGGGGAAAAAAAAAAAAAACCGAGGAAAGAAAGGGGG G G G A A A G G G A A A A A A A A C G GAA G GAAGGACAGGACCAAAAAA G G GAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAAACAA

GAAAAGGGAAGGGGCAGGGGAAGGACCAGGGACAGGACGGAG
 C CAGGGGGAACCAAGGAAAAAGGAGGAGAAAGGGAGGGAACA A A G G GA $A G G G G C G G G G A A A A G G G G G A A G G G G G A A G G G G A A G A$ G G G G G G G G A A A A G G G G G GAA $A \operatorname{A} G A A A A A A A A G G G G A A G G G A A A$ A A G G G G G G G G A A A A C C G G G G A A A T G G A A G G A G A A G G C C C C G G G G A A G A T T A A A A A A T TA GCCAGGGAACCGAAAAAA GAA GA G G AAGGAGAAGGCCGGGGGGAAGGGGGGACAAAAGACCAACCAG C C G G A A G G A A G G G G G G A A A A A A A A A GAGGGCACACCAA G G TA ACGAAAGGCAAGGGGGCCAACCGGGGAAGGGGGAAAGAAACA GAGGGAGAGAAGAAGGGGGGGGGGCGCCAACGTTAACCAAGA G G G A G G A G A A G GAA $A \operatorname{G} G A A C C A G A A A G C C G A G A A A A A A G A A A G$ $G G A A G G C C G G G A G G A G G G A G A A A A G G G G C C G G A A G G A A A A G G$ A A C A C C A A G G A GAGAGGGATAAAGAGGAATAGAAAACAAAAA AAAACGAAACGAGGAAAAGGAAACAAAAAGGGAAAGGGAAGG GAGGAGAGGGCAGAGGCAACGAAAGGAGAACGATACGAAGGG A A A A GAGGGAGGAAGGAGGAACAGAGAGAAAGAGCCAGAACA G GAAAGGGAACCAAAGAGGAAGAAAGGGAAGAGACCTTGAGA AGACAAAAGGGACCAGAAAGAAGGAAGGAACCAAAAGGAAGG A A C C G G G G G G A A A G A A G G C C A A GAAAA $A$ A GAAAAACAGGAGAA

 G GAGAAAGAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGB A A G G A A A A C C C A G A G G G G G G G G G G A A A A A A $\mathcal{A} G G A G G G A A G A A$
 G G G GCCGGAGAAGGAGAGACAGGAAAAAAGAGGGGAAGCCAC G GAAGGAAGGCCAAGGAACCAACCGGGGAAAAGGAAAACAAA C CAACCAGGGAGAAAACAGACAGGGGAAACAAGAGAAGAGGA A G G G A A G A A A A GACAGAGCCGGGAAAGGGGACAA GAACAGAA G G G G G G A A A GAGGAAC GAAAGGGGGGAAAGACGAA GAGAAG G G G A G G G A A G G A A C C G G A A A A G G C C G G A G C A G A A G G A A G G G G G G G G G G G G G GAGAAGGAGGAAGGAAAAAAGAGGGGAAGAGAAG GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAAGAT CACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAGBG A G G G A A G G G G G A G A G G C C G G G G G G A A A A G G A A G G A A G A G G A A A A A G A A G G G G A GCC G G A A G G A A G A G G C C A GACA A A G A G A G A G A A G G G G G G A G G A T T A C A A G G G G G G G G G G A A G G G G G G G G A A A A GAAGAGGGGGGGAAAAAAAAGGGAAGGGAAACGGGGAACAAC A G A A A G A A A A A C G A G G A A G G G A G A A A A A G G G G C C G G G G A A G G C C CAACAA G GAACAAGAAAGACAGGGAGAGACAAA GAGAGBA GAAAAAGGCCGGGGAGGAAGAAAACCAAGGCCAAAAAAAAAA A A A A A A $\operatorname{A} G A A A A A G G G G G G G G G G A A C C G G A A A A G G A A A A G G G G$ G GCCAAGGGGCCGGGGGGGGGGGGGGGGAAGGAAGGGAAAGG
 A A G GAA $A \operatorname{G}$ GAAAAAAAACCGGGGAAGGAAAAAAAAGGGGGGGG C C G G A A G G A A G G A A A A T T G G G G A A A A A GA GAA $\mathcal{A}$ G A A G G A G G G A A C C G A G A G G G G A C G G A G G G G A A A G G G G C C A GAGCCA GAAC C
 A G GAAGGAGGAACCTTCCGGGGAAGGCCGGCCAAGAGAAAAG A G A G A A G G G G A A A $\mathcal{A} G G G C G G G G G G T T G G A A A A G G A A C C A A G A$ G G G G G A A A G A G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{G} A A G A G G G A G A A A G G G A A A C A A G G$ $A A C C A A A C A G A G A A C C G G G G G G G G A A C C A A A A G G A G A G G G G G$ G G G G C C G A G G G G A A A G A A G G A C A A CAG G A A G G A A G A G A G A G A GAAAAGCCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGGAA A A G G A A G G G G G G G G G G G G G G A A A A A A C C G G G G A A A A A A G G G G A A G G G G G G A A G G G G A A G G C C G G T T A A G G G GAAAACC G GAAA A G G G G G G A A G G A A A A G GAA $A \operatorname{AGAAGGAAAAAACCAAAAGGAGAA}$ G G G G A A G GCCAA $C$ C G A A A A G GC C A A A A G G G GAAAA A G A A G G G G $G G C C A A G G C C G G G G A A G G G G A A A A G G A A A A A A G G A A A A C C G G$

G G G G G G G G A A A A A A G GAAAACCGGGGGGGGAAGGCAAAAACC
 GAAATAGAAGGGAAAGACGGGAGGAGGAAGAAGGAACGAAAA AAGAAGACGGAAAAGAACGAGGCACCCCACAGACGGAGAAGG AAAGGGGGGAAAAAGGGGAAGAGAAGAAGAAAGGCAGGGGAA G G G G G G G A A G A A A A G G A GAAAAA A G G GAACACAGAAAGGCAAA C CAA $A G G A A A A A A A A G G G G A G A A A A G A A A A A G G A C C C G G A A A A$ AA $A G G G C C A A G G A A G G G G A C A G A A G G A A C A G G A A G G A A G A G G$
 G GAAAAGGGGGGATAAGGGGGGAGAAACGAAGAGGAGAGAAG GAAAAAGGGGAAGGGAAAGGCGTTAAGAGAAGAAAAGAAAGG GAATAAAACCAAGGAGAGGGAGGAGGTAGGGACAAAAAGAGG AACAAGGGAACACAAAGGGGGGACAAAAAAGAAAAAAGAAAA A A G G A A A A A A A A A A CAAAA A GAAAAACCGGGGAGAAGGAAAA C C GACCAGCCGAAGAGAAGAGAGGAAGGAAGGGGAAGGCCAC A A GACAAGGGAAAAAGAGCCGGACGGGGGGAAAAAAGGAAGG A GAGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGAACAAGAG AACCGAGAGGAAGGGGAACAGAAAGAAAGGGGGGAAAGAAAAA GAGGGAGGAAGGAAGGAAAAAAAAAAGGCCAACACCCCAGAA G G A A A G G G A A A GAGAGAGCCGAAGGGAAAGCAGGAGAAGAAA AAGAGAAAAAGGAACAAAGGAAGGGGGGAGAGGAGGGAAAAG A G G GCCAGGGCAACGGAAGAAGCCACAAACAAAA GGGGGGGG A ACCAACCGGGGGGGGAAAACCGAAAAAAACCGGAAGGGGCC A A A A G G A A G A G G G G C A G G T T G G G G A G A G G A A A G G A G C C G G G G GAAGGGACGGAAGGAGAAAGGGAAAGAGCCGGGGCCAAGGGG G G G G A A A A G GCCCC $C$ C G G G G G A A G G G G G G G G A A G G C C G G A A A A
 A ACC $C$ G G A G G GCGGATAGAAGAGGAGCAAGAGAGGAACCCGG A A A A A A G G A A G GCC G G A A G A G G A A G G G G G GAGC GA G C C G G A A A G GAAAAACCGGCCGAGGGAGAGGCCGAAAAAAAGGAAGCAA CACCGGAAGGAGAAAAAACCAAGGAAGGAAGGGGGAAAAAAA AAAAAAAAGGAAGGCAAAGGGGAGCCAAAAGGGGAAAACAAA GAGAAGGGGGAAAAGGAACCAACGAGAGGGAAAAAAGGGGCG
 GAAGGACAAGGAAGGAAGAAAAACAACCAAAAACGAGGGGGG $G C G A A A G G A A A A A G A A A A G A G G A C G G G A A A G G G G G G A A A A C A$ C CAAAAGGCCAGCAAAAGAAAACCAAAAAGAACCGGGGGGAG A A A G GATTGGAGCACACAACGGGGGGAACCGGGGGGACAAAAA C CAAAAAGGGGAAAAAAGAGGGAACCGGAACCGACAAAAA G G $A$ G GAAAGAGAGGAGGAAAAAAAACCAAAGAACCGAAACCAGAC A GAACAAGGAAAAGGAGGAAGGAAAAGGGGAAGGGGA
A A A G G A A A A A A GAAGAAGGAGAACCCGAAGGGGGGAAAAAA AAGAAAAGCCCCAAAACCAAAGGGAGAGAAAGAGTTAAAAAA $C \subset G G G G G G A A C C A G G G G A C C G G G G G G G G C G A G A G A A A A C A G G$ A A A A A GACGAGGAAAAAAAAAAGGAAAAAACCAAAAGGGGGG AACCGGAGAAGGAAAAAAGGAAACGGTAAGGAGGAAGAAAAA A A A A A A A G CA $\operatorname{A}$ G $\operatorname{AAAAAGGGAGGGGAAAAGAAAAAGGAAGGGG}$ CAGGGGAGGACCGACAAGTAAAGGGGGGGGGGAAACAGAAAG AAGGAAAAAACCACGAGAAAGGGGAAAAAGAAAACCCC G GAAA AAAAGGAGAGAAGACCAAGGAAGGAATAAAGGAAGGCAAGAC AAAGGGGGAAAAGGAAAACAGAGAAAGGAAAAGGCAAAAAAA $G G C C C G A A A G G A G A G G A G G G G G G G A A G G G A C C G A G A A A G G C G$ G G A A A A G G G G A A G G A A A A C C G GAC G G C C G GC CAA G G GA GA G A AGGGAAGGAAAAGGAAGAGGGGGAGGCCAATAAAAGAAAAGG A GCCAAAGGAAAGAGGACAAACGGGGAAGGAAAAGAAGAGAA A G G G G GAAAAGAAAGGAAGGAAAGGAAAAAGGGGGGAAAGAG GACACCAATTGACCGGATCCGGGGGGACAAAAAAGAAAGGGG AAAGAAAAGAAGAAGGGGGGAAAAGCAGCAGGTTCCGAAAGA A GACAAGAAACCGGGGAGGAGGAGCCAAAAGGGGCCGAAAAG

G G G GAAGGCAGGAAGGGGAGCCAGAAGGAAGGCCGAAAAAAG A GCCCCAAGGAAAAGGGGGACCAAAGCATAAGGGGGAAGAAG A G G A A A A A G G G G G G G A A G G G A G G G G A A G G G A A G A A A G G G G G G ACGGGGGCAGAAGGAAAAGGAAAAAGAGGGAAGGGGAAAAAG A GAAAGGGGGGGCAGGCCGGAGGGCCACAGGGGGAAGGAACA A G G GACAGGAGGAAGGCCAACCGGGGAAGAAAACGGCCAAGA A G G G C A A G G GCAG G G G C C T T A G A G G A A G CACC GA G A A G A G A A GAGGGACCAACAGAAGCCGGAGAGAAAAGAGAGAAAAAAACC GAACCAGAGGGGGGAAAAAAGAGGAAGAAGGGAATTCGAGAA AAGGAGAAAGAAGAGAAGGGAGGAGGGGGAGAAAGGGGAAAA C CAGAGGAAAAGAGGAACAGAAGAAAAAAAGACCAAGAAAGG G GAGGACCGACAAGAGGAGAGAAGCAGAGGGGTTGAAAAAGG C C G G G G A A A A A A G G A A T T G G G G C C G G G G A A A A G G A A A A G G G G G G G G G GC C A A A A G GAAAAACACAAAAAGGGGAAGGGGGGAA G G G G A A A A G G A A G G G GCCGGCCAAGGCCAAAAGGCCAAAAGGGG G GAAGGGGCCGGGGGGGGAAAAAAAAAAAACCGGAAAAGAAA G G G G G G G G A A G GAAAA A $A \operatorname{AGGGGAAAAAAAAAAGGGGAAAAAA}$ AACCAAGGGGGGAAAAGGGGAAAAAAGGGGAAGGGGCCAGAA A A A A A A A A G G G G A A A A G G G G G GAAAA A G A A G GCCAAG GAACC A A G G A A A A G G A A G GCCAAGGAAGGCCGGAAAAGGGGAAGGCC G G G G G G G GAAAAAAGGAAGGAACCAAAAGGCCGGGGGGGGAA G G G G A A A A A A G GAA A GAAGGGGAAGGGGAAGGAAAAAA G A A A A A A G G G G G G G G A A G G G G C C A A A A A A G G A A G GAAAA A G G G G G G G G A A G G G G A A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G G A A C C G G G G G G A A G G A A G G A A A A A A A G A A A G G G G G G G G A A C C G G A A G G A A G GAAAA $A \operatorname{A} A A A A A G G A A A A A A A A G G A A G G G G C C G G G G C C G G$ G GAAAACCGGGGAAAAGGAAGGGGAAAAGGGGAAGGCCGGGG G G A A A A G G G GCCGGGGGGAAGGGGGGCCGGAACCAAGAAAAA AAAAAACCGGAAGGGGCCCCGGAACCAACCAAGGGGGGAGAA G G A A A A A A A A A A G G A A G G G G G GCC G G C C G G G G G G C C G G G G G G G G G G G G G G G G G G A A A A C C A A G G A A G G C C A A G G G G G G A A A A G G G G G G G GAA $A \operatorname{GAA} A C A A G G A A G G G G G G C C G G A A G G A A G A A A A A$ G G G G A A A A G G G G G G G G A A A A A A G G A A A A A A A A A A A A A A G G G G A A A A A A G G G G G GAAAAACCGGGGAAAAAAGGAAGGAAGGAGAA G GAA A GAA $A \operatorname{AGGGGGAA} G G A A G G G G G G A A A A A A C C G G A A A A G G$
 G GAA A GAAGGAAAAAAGGCCCCAACCAAGGGGGGGGGGAAGG G GAAAAGGGGCCGGGGAAGGCCCCGGAAAAAACCAAAAGAAA A A G G A A G G G G G G A A A A $\mathcal{A} G A A G G A A G G A A A A G G A A G G G G G G G G$ G G A A C C G G A A A A A A A A G G G G A A A A G GAAAA A G A A A A G G G G G G A A G G G G G GCCAAGGCCGGGGAAAACCAAGGAAGGGGAAGGAA G G A A A A G G A A A A A A C CAA $A$ A A G GAAGGAAAAAAAA G GAA G G G A AAGGGGGGAAGGAAGGCAAACAAGCCGGAAGGAAGGGGGAGG G GAGAAAAAGGGGAAGAGAGGGAAGGAAAAGGGGGGAAAAAA G G G A A A GAGGGAAAACAAAAAGCAAACAAAAGAGGAAGAGAC C C A A C C A A A GCCGGCC G G T TA $\mathcal{C} G G G A G G G G G G A G A G G A G A G G A$

 A A G GAA A G G GAAAAAAAAAAGGGGGGAAGGGGCAAAGGGAAA
 G G G G G G A A A G C C A G A A G A G G T T G A A A G A A G G A A A G A G G A C G G GACCGGGGGGGGGGAAAACAAAGGAGGGAACCGGCAAAGAAA G G G A A A G G G G A A C C A A A A G G C C G A GAGAGACAAACA A A G G A A A GAACCAAAAGGGGGGAAAACCAAAAAACCAAGGGGAAAAGAG G G G G A A G G A A G G G G A A A A G GAA A G G G G GAGAGAGAGGAAAAC C G G A A GAGAAGGGGAGAAGAGGAAAAAAAAGGGGAAAAGGAA GACACAAACAAAAAAAAGGAAGAAAAAAGGAAGBAAGGGGGG A GAAA GAA GAGAAGGGAAACAAAAGAAAAACCGGGAGGAAGAG GGCCAACAGGAGCCAAGAGAAAGGAAAGAAGAAAAAGACAGA

G GAGGGAAGGGGAAAAAGGAAGAAAGAAAAGAAGCCAAGGAG G GAAAAGGAACCAACCGGAAAAGGGGAAAAAACCAAGGAGAA G GAAAAAACCGGAAAAGGGGAAAAAAAAAAGGGGGGCCACAA G GAAAAGGGGCAGGACAGGAAAGAGAGAAGAAGGGGGAGAGA G GAA $\operatorname{G} A A A A A G G G G A A A A G G A A A A C C A G A A G G G G G G A A G G G G$ G G G A G A A G G G G G A A A A C A G GA G G G A A A A A A A A G G G G A A C C G G G G G G G G A A G G G GC G G A G A A G A A A G G GAGAGCCGGCCC GAA G G
 T T G G G G A A A A A A A G G A G G G G G G C C A A G G GAA $A$ G A G A C C C A G G $C \subset A A G G A G A A G G G A G A A G A A A C C A G A A G A A A A G G A G A C A G A C$ AAAAGGAAAAAACAAGGAAAGGAAGAAGAGAGAAAACCAGAA GACCCCGGAAGGAAAACCAACCGAGGGGGGAAAACCAAAAAA $G G A A G G A A G G C C A A G G G G G G G G G G G G A A G G A A A A G G A A A A G G$ A A G G A A G G A A A A G G G G G GCCAA $\mathcal{A} G G G G A A G G A A A A G G C C G G G G$ AAAAGGGGGGAAGGAACCAGAAGGCCAAGAGCGAGGAGAGGG $C G G G G G A A A A C C G G C C A A G G G G G G G G A A A A A A A A A A A G A A G G$ A GAGAACCAAGGGGAACCATAGAACACCAAAAGGTTAATTGA G G G A G A A A A A A A G G G G G A A GAGGAGAGGAGCAGGGGGAGAAA CAAAGGGGAAGACCGGGCAAGAGAGGGCACAGGGAACAAAGAG A A G A G G G G G G A A G G T T A A G G G GCC G G A A G GCCCCAAAAAAAA G GCAAAGGAGGGAAGGGGGATTACAAAAGAAGCCCCAAAGGA G GACGGACAGAGGAAGAAACAACAAAGGCCGGAAGAAGGACC G G T TAAAAAAAAAGGAAAGGAAGAAAAGAAAGGGAAGGAAAA A G A A G G G A G G A A G G G G G G G A G G A A A A G G G A G G G A G G C C A G A A CAGGAAGAGCGGAAGAGGCCGGGGTTGGCCGGAGGCGGAAGA ACAAACAAAAAAAAGGGGGAAAAAAAAGGAGAAAAAGGGGGA T TAAAAAGGGAAGGAAGGCGAGAAGGGAAGGGAGAAAAAGAA G G A A A A A A GAA $A$ A A GAGCCAGGGGAGCAGAAGGGGAAAA GGGG G GAGAAAAGAAGAAAACCAAGGAGGGAAGGAAAAGGAAAAAA $G G A T A A G G A G G A A C C G G G C C C C G A G G A G G G G G G G G G A A A G A A$ A A G G G G G G G G A A A A G G A G A G G G A A A A A A A G G G G G G A A A A A A A A GAGGAGGGGAAAGAGGGGAAAGAGAAAAGACAAGGCCGGGG AAGGGGCAGAGGAAGGAACCGAAGGGAACCGACCAAAAAAGA A GAATTAGTTAAAAAAAAAGAAAAGGAAGGCGAAAGAATTAA
 AA $A \operatorname{ACCA} A G G G G G G G G C C C C A A G G A G A G A A A A A A A G G G G G A C$ GACCGAGAAAGGCCAAAGCAACGGGGAAAAAGAACCGAAAAA AAAAGGCCGAGGGAAAGGGGAGGAAGAGAGAGAAAGAAGACA CA $\operatorname{C} G A A G G A A A C G A A G G G A G A A C C G G A A A A A G C A G A G C B A A A$ A G G GCCAGAAGGAGGGAAAAGGAAGGGGCAAGAAAAGGAAAA GAGGGGCCGAGGGAAGGGCCACACAAAAGAAAAAGGG
GAAAAGGGGCCCAAGAGACGGAAGGAACCAACCCCAACCGG AAGGAAAAAAAGAAAACCAGGGGGAAAACAGAAGAAGAGAGG G G G A T T G G GAA $A \operatorname{GA} A G A A A A G G G A A G A G A G A A A A G A A C A A A A$ $A G G G G G G G G G G G A G G G G G G G G G A A A A G A A A G G A G A A A A A G A A$ AAAGGGAACAGGAGAAGAATAGAAAAGGAAAGCCAACAAAAG AACCCCAAAAGAAACCGAGGAAGGAAGGAAGGAAAGAAAAAA G GAACA A A G G GAGGGGAAAGGGAAAGGAACGGGGATGGAGAA AAGGGGGAAAAGAGCCAAAGGCAGAGGAGAGAGAGGAAAGAA GAAGGAAGCCAAGGGGGGAAAAAGCCGGAAGAAGAACCCCGG G GAGAAAAAAGGCCGGAAAAAAAAAAAACCGAGGAGAGACAG AGAAAAAGAAGGAAAAAAAAGGGGAAA GAAAGAGGGAGGGCA AAAAAAGACCACAGGGGGGGAGGAGGAAAGAAAAAAGGAGGG CAA A G G G G G GAAAAAAGGGGGGAAGGGGAAGGGGAAGAAAGA C C G G G G G GCCTTGGGGCCCCAAGGCCAAGGGGAAGAAAAAGG G GCCGGCCGGAAGGGGTTAAGGAAGGAAAACCCCAAGGAAGBG G G G G G G A A C C G G G G G G G G A A A A G G G G G G A A G G A A G G G GAAA A AAGGAAAACCGGGGAAAAGGAAGGGGGGAAGGAAAAAACCBG $G G C C T T G G G G G G A A G G A A G G G G A A A A A A A A G G A A G G A A A A A A$

AAAAGGAAAAGGAAAAGGAAGGGGGGAAGGAAAAGGGGAAGG A A G G A A A A G G A A G GAA $A \operatorname{AGAAAACCGGAAGGGGGGAAAAAAGG}$ $G G A A G G C C G G G G A A G G A A A A A A G G A A A A A A G G A A G G G G A A A A$ T TAA A G G GAAAAAAAAAAGGGGGGAAAAGGAAGGAACAAAAA G GAAAAGGGGCCAAGGAAAAAACCAACCAAAAAAGAAGCATT A GCAATGGCCAACCGGGGGGAAAAGGGAAGGGAAAAAAAAAA GAGGGAGGGGAAAGAAAAGAGGAGGGAGAAGGAAAAAGACAA $G G A A A A C C A G A A G A A G A G G G A A G G A A A A A G A A A G A A G G A A A A$ G GAAAAAAACGGGGAATTGGGGAAGAGGAGGGA $\operatorname{A} A A A A G A G G G$ AAGGGGAGAGGGGGCCGAAGGGGGAGGAAGAAGAAACCGGGG GAAAAAAAGGGGGGGGGGCCGGGAAGGGGACCCCCCGAAGAA AGGAACAAAAAGAGGGACGAAAGGACCAAAAAAAAAAAAGAG A G G G T A A G A G A A A GAGACAAGGAAAAAAGGAAAGAGAAAAAT GAAAGAAAAAAAAAAAAAGGAAGGGGGAAGAGAATTAAGAGG G G G G GAAAGAGGAACAAGAAGGAAAAAACCCCAACCGGAAAA G GAA $\operatorname{G} G A A A A G G A A G G A A A A C C A A C C A A G G A A A A A A A G A G G G$ G G G GAGCCAAGGCACCAGAAGGGAAAGAACAAAGACGGGGGG
 AAAAGGAAAACAAAGGGGGAACGGAAGGATCGAAAAAAGGCC AA G G A A A A GAGGAACCAAGGAGGGAAAGAAAGAAAGAAGGAA A GAGAGGGAGCCGAAGAAGAGGAAAAAGGAGAAGGAGAAAGA
 A G G G G G A A C C G A C A G G G A G A G G G A T T T A A A $A \operatorname{GGGGA} G G A A A G G$ G GCCGGGGAAGGGGAGAAGGAGAGGGAGCCAAGACACCAGGG ACTAAAGAAAAAAAGGAAGGAAAAAAGGAAGGAAAAAAAACC A A G GAA A GCCAAGGAAGGCCAAGGGGAAAAGGAAGGGGAAGA

 G G A A A G A A A A A GCCAC GGGGAACCAACCCAACCCGGAACCTT A A A A A A G G G A G G A G G A G G A G G A T T A A A A A G G G G G G G G G A A G G G $A G A C A G G A G G A A A A G G G G A G G A G G A A G G G G G G A A G B A A G B A A$ AAGGGGGGAAGGGAGAAAACGGAAGGAAGGGGGGGGGATXAA $A C G G A A G A C C A G G G A G G G C C G G A G G A G G C C A A G G A A G A A A G A$ A A G G A A A A A TAGGGAGAAGGACGGAAGGGAAGGGGGAAAGAA A A G A A A A G A A G G A A A A G GAGGGACCCGAGGGAGAAGGAAA G G G G G A C G G G C C G G A A G G A A G A A G G G A G GAGGGAAAAAGGAAAA C CAA A GAAAAGGGGGGAACCAAGGAAAAGGAAAAAAAAAAAA G G G GAA A ACACCAACCGGAAGAAGGAGGAGAAGGAA GAGAAG G G G G G A C C A G G A G G G A A A G G C C A G G G G A C C A G A G A G G G A C G A G G G GAGGAAGAGAGAGAAAGAAGAGGGGGGAAAGAAGAACAA C CAGAGGAGGAAGGAGGAAAGAGGGAGGGAGAAAGGGGAAGAG G G G G A A G G A G G G C C G G A A A A G G A A G G G G G C A G G G A G A G G G A C G GCCGGGGGGAGACGAATGAAACCAAAGGAGGGAAGGGACAG G GAGGGGGGGCCAAAGAAAAGGGGAAGGAAGGAAAAAAAGAA $A C A G A G A C G G A A G G G G A A A A A A G G C C G G A A A A A A A A C G A G A A$ G G G G G C G A G A A C A A G G G G G G C C A A G C A A A A G G A G G G G G A G G G A G A A G G A C G G A A A G A A G G G GA GAAA A G A A C C G G CA G G G G A G A G A GCC G GAA A GAGAAAAGGAAGGAGAACCGGGGAGAGAAAAAC C G G G G GCCACAAACAAAAAAGGGGAACCGGAGAGGGGGAAAA TAAAGAACACAAAAAAGGAAAAAACCGGAAGGAAAAAGAACA AA GAAAGGAACCGGAAAGGAGGAAAAGGAAAACCCCGAGAAG G G GCA GAA $A$ A $A \operatorname{G} G A C G A A A G G G A G A G A A G G A A A C A A G C A A A G A$ C C G G G G G G A G A A C A A A A A C C A A G G A A G G A A A G G A G G G G G G G G AACCGACCGAGGAAGAAGAAAAGAAGAAAGCAAAGGAGCCGG CACCAAGGAGGGGGGGGAGGGGGGAGAGGAACAACCAGAAAA G GAAAGGAAAGGAAACAGATGGAAAAGGAGAAAAGAGGAAGA A A A A G G G G G G A G A A A C A A G G A A G GAAAAA G GAAAA $A$ A GA G G C G G GACCAAGGAAGGGGGGGGCAAGGAAGAGGAAAAGAACAAAAA $A G C C G G A A A A G G A A A A A G G A G G A C C C G G A A G G G G A A A A A A G G$

G GAA A G G GAAGGGGAGGAAGGAAGCCAGGGGGAAAAACGGCA CAA $A \operatorname{GGC} C A C G G G G G A G A A A G A G G G G G G G A A A G G G G G A G G G G$ $A G A G A A A A G G G G A A G G A A A A A G A G A G G A A A A A A G G C G G A A A G$ G GAGCCAAGGAGGAAGAAGGAAGGGGAGAGAAGGGGCCGGGA GACACAAGGAGAAAGGGAAAAAGAGGGGAGAAGAAAGGCCGG T TATCCGGAACCAGGGGAGAGGAAGGAAAAGGGGGGGGGGAG GAAGGGGGAAAAGGGGGGCCGGAAAAAAGGCCAAGGGGAGAA G GAAGGGGGGGGGGGAGGCGAGGAGAGGCCGGAGGAAGAAAG
 AACCGGGGAAAAAAGGAGAGAAAGAGAGAGCCGGAAGGGGAA G G G GAA $A \operatorname{GA} A \mathrm{~A}$ GAAGGAAAGGGAAGAAGGAAGAAAGAAAAGA
 A A GA G A A G A A G G A C A A A A A A G G G G CAAA A G A A GAAA A A A G G G
 A A G G G A A G G GCCACAGGAGAGGAGAAGAGAGGAACCAAGGAC ACGGCAACGAAAAAGGAAGGGGGAGAAGGAAGAGGAGGAGAA
 A A A G G G G G G G G G G C A CAAAAAAAGGGGAAGGAAGGACGGAC G G $A C A G T T G A A A G A C A C C G G A A G G A A A A G G A A A G G G C C A T G G G G$ G G G G G A A G A G A G G G A A A A A A GAAGCCAGGAGAGATTAAAA GA G GCAAGGAGGGGAAAAAAGGCAAGGAGGGAGGAGAAACACCC AAGACCGAAAGGAGAAGGGGAAGGCAAAGGGACCAGAGAAAA A GAGGGCCCAGACAGAGAAAGGAACCCAGGGGAGGGAAGAGA A GAGGAGGGGAACCAGGACACAGGGAGGCCAAGGAAGGAAAA A CAA $A \operatorname{A} A G G G G G G A A G G G G A A A A G G A A G A C A G G A A G B A A A A B A$ AAGGAAAAGGAACCAAAAGGAAAGCAGAAAGAAGAAAGACAG C GAA $A \operatorname{GAA} A A G G A A G A A G C A G A A A G G G G G G G G C C A G A C A G G A$ A G GA GA A A CA $\operatorname{A} G \mathrm{G}$ GAGAAAAAAAAGGAAGAGGAAACCCGGGGGG GATTGAGGGGCCAGAGGAAAACGGAGGAAAGGGGGGGGGGGG $A G C C A G G G A A C A G A A A G A A G G A C G A G G A A A G A A G G A G G G G C C$ G G A G A GAA A GAGGGGGCCGGAAAGCCGGAAAAAAATGACAAC AAAACACCGAAGAAGGAAAAAAAAAGGGGGAAGGAGGGGGAG ACGAGGAGAGGGAGACCAGGAACACCGAGAAGAGGAAAGCGG A GAGCCCAGGAAGGGGAAAAACGGAAAAAAAAAAGGGAAACC A GAGAGAGAAGGAAGGGGGGGAGAGGGAGGAGAAAACAAAAA A GAG $\operatorname{A} G A \operatorname{G} C A A A A G A G G G A A G A G G A A G A G G A G G A A G G G A A G A A$ G G A A A A A G GAA A G G GAGGGGAAGGGGACGGAGAAAAA GAAAA A GAGGAAAGGCCGGGGAAGGAAAAAACCAAAAGGGGGGAAGA G G A A C C G G A A A A C C A A G G G G A A A A G G A A G GAA $\mathcal{A} G G G A A G G G G$ AAAA A GAAAAGGGGGGAAAATTGGGAGGGAAAAGGACAGGCA A A A A G A G GAAAGGGAGCAACAAAAAAGAAGACAACGC
C G A G G G G A A G A A A C C G G G G G G G G G G A A A A G G A A G A A A A A A G G G G G GACCGGAAGGGGAGGGGGGAGGAAGGAAACAGAAGGGA G GAA A G G G A A G G A A A A T TAAAAAGAGAAAGAAGGAAAAA GAA C A A A A A G G G G A A A A T T C C C C G G G G A A GACCCAGGGAAA G GA A A G G GAAAACCGACCAAGGGACAAAAAGAGGAGAAAGAAAA GA $G G C C A G G A T A A G G A G G G G G G A A G G A A A A G G G G A A G G A G G G A G$ A GAA A G GACCCAACGAAAGGGAGGGGAAAGGAGGAAGGAGAG GAGAGGGGGGGGGGACAAGAGGACAAAAGGAGAGAGGGAAGA GAAAGAAGGGAAGGACAAAAAAAGCCGGAAAAAAAGGGAAAC A A TAAAAGAAAAAAAACAGGAGAAGGGGAAACAAGGAAGACC AACCAAAAAAAAAAAAGGAAGGAACCAAGGAAGGAAGGAAAA A G G A C A G G GACCAA $\mathcal{A} G G G C C G A T A G A A A G G G G C C A A A A G G A A$ AA GAAAAAGGAAGGAAAAAAGGGGGGCCGGGGGAAGGGCAAC AAAGAAGGAGAAGAGGAAAAAAGGAAAAGGAAAAGAAAAAAG
 $A G C C A A A A G G A G G G A A A G A G A A A G G A G A G A A A A G G A A G A G A G$ GA GAG G G G A A C C G G GAA A A G GAA A A GAGCACAGGGGGGAAAA G G G G G G G G C A G G G G G G A A G A C C G G C CA G G A G G G G T T A G G G A A

A A A A A G G G A G G G GAGGGAGGAAGAGAGAAGACGGAAAGAGAG G G G G G G G G G GAACCAGGACAGGAAAAGGAAAACAGECAGA GA GA GAGAAAAAAAAAAAAAGGAAGAGGAGGGAGGGGGGGAGAAG $C \subset A G C G A G G G A A G G G G A A A A T A A A G G G G G G G G A A C C A G A G G G$ G GAAGAACGAAAAAGGAAACGACAGGAAGGAGATAAAAAAAA AAGGGAAAGACAAAAAAAAAAAGGAAAAAGAACAGGGACAAA
 AAGGAGGGGGAAAGAACCACAAAGGGGGGGCCAAAAGGAAAA
 A G G GAAAAAGGGAGGGGAGGGGGGAGGACACAGAGGGGGGGG GAAGACAGAGAGAGGGAGCCAAAACCGGGGGAGAGGGAAACA GAAGGGGAAAAAGACCACGGAGGAAGCAAAGAAAAAAAGAAA AA A GAAAAGGAAGAGGAAAGAAACAGCACCAAGAGGAGAGGG A A A GAGGAAGAAAGAAAAGGGGGGGGCCAGAAAAAGAAGGGG AAGGGGGGAAGGCCAAAGAACCCAAAAAAAGGAGAGAAGGGG A GAA $A \operatorname{A} A C G G G G A G A G G G A A C C C C G A G G A G A A G G G G A C A C A G$ A GCAGAAGAAAAAGAGAAAAAAGGGGAAGGAACCGGAGGGCC AAGACCGCCCAAGGAAAAGGAAGGAAGGAAAAAGGGGAAGAG $G G C C A A G G G G C A A G A G A A C C C C G G G G A A C C G G A G G G G G A A G A$
 A A G GAAAGCCGAGGGGCCGGAGAGCCAAGGGGGGAAAAAAGA
 G GAGAGAGGAGGGGGGGAGAAAGAGAAGAAGGGAAGGGAAGA GA $A$ A $\operatorname{G} A \operatorname{A} A A A G G G G G G A A A A A G G A G A G C A G G A A A A G A A G G G G$ GA $\operatorname{G} A C C G G A G G G A A G G A A G G A G A C G A G A A G G G G A A A G G G G G G$ GACCGGAAGAAAACCGAGAAGGAAAAGGAACCAACCAAGGGG AAGGGGGAAAAAAAGAACAAAAGGAGAGACGACCGAACAACAC CAAAGAAAACGAGAGGGGAGCCACGGCAAGGAGGCCAAGGAG G G G A A A G G G G G A G G G A GAGGGGGAAAGAAGAAAGAAGAAGAG AAGAAGGGAAGGAAAAAAGGAAAAGGGGAGAGGAGACAAAAA G GACAGAAAGAGAGGGCAAGAAAAGGCAAAGGAAGAAAGGBA AGGAGGACGGGGAAGGGGCCAAGGAGGGAGAGAGAGAAAAAA G G G GA $\operatorname{GAA} A A T A G A A C C G G A A A A A A G G G G G A A A G G G G G G A G A G$ G G G GAACCGGGGAAGAGGGAAGAAAAGGAGAACAAGGGAGAA AAAGGCGGGGAAGGAAAAAAAGGGAGCCCCAAAGGGGGCCAA A A G G GAGGCCGAGGGAAAGGAAAGGGGAAGGGGAAAGGAGAA G GAGCACCAAAGGGGGGGGAGAGGGGACCCGAAAAAGGATGG A GAAAAGAAGGGGAGGCAGAGGAAAGAAGGCACCGGAAAAGA G G G G G G A G A G G A G G G G A A A A A C GAGGGGAGAAA GATA G T T G A A
 $G \subset A G G G G A A C G G G G G A G G G G G G A G G G G G A A G G A A A A G A A G A G$ GAGGGAGGAAGGGGGGGGGGGGAAAAAAGCGAAGTTGAACAA
 A GACAACCACAAGAAGGGAGCCCCACAAAGGGAACCAACCAA G G G G G A A A A G G G G A G A G G G GACCC G G GACAGAGAAAGGCCCC GAGAAAAGGAACAGAGAAAAGGGGAGGGAAAACCGGGAAAAA G G G GAA A GAGGACCAGACAAAGACGAAAGGGGGAA GGGGGGG G GACGGAGGGGGGAGAGGCAAAAGAGGAGGGAGAAAAAAGGG AAAGGAGAGGGGCCACAAACAAAAAAAAGGGGGACCGGAGGG A G G G G G A G A C A A G G G G G G G G G G A A A A G G GAAA A A A A GAAA A A A G G G A A A A C C GAGGAAAAAGGAAAGGACCCAAGGAAGGGGCA G GACAGAAAAGAGGAAGGCCGGAGCAGACCGGGGAAGGCAAA A A G G G GCCAAACACCAGAAAAAAAGGCCAGAAGGCCAAGGCC G GAGAAAGTTAGGGAGGGAGAAGGAAAAAAAGGGAACCGGGA AAAAACCCCCGAGGAGGGGGGGCCAAAACCAAGGAAAAGGGG G GAAGAAGAGTTGGAGAAGAAAAAGAAAAAAAAACCGGAAAA GAAGGGGGAGAGAAGGAAAACCAAGGAAGGACGGGGGGGGGG $C \subset C C C C G G A A A A A A G A G A A C A A A A G A A A C C G B A A G A G G G G G A$ $A G G G G A A A C C G G G G G G G G A G G G C C T A G G A G A G G A G G G G C C G A$

G GAA $A \operatorname{GAA} A A G G A G G G G A A G A G G G G G A A G G C A G G G G A G G G G G$ CAA $A \operatorname{G} G A A G G G G G G G A G A A G G A G G C C C C A G G A G G G G A A G G G G$ GGCCGGCCAAAAACGGAAGGGGAAGGAAACAAGAAAAGAAGG A A G GAA A ACAAGGGAAGGCCGGAAAGGAGAAAACGGAAAAGG A ATTAAAAGGCCGGGGTAAAAACAGGGAAGGGAAAAAACAGA A GAAAACCAAAACCAGGGGAAACCGAAAAGGAGAAAGGAGAA
 G GCGGGGGAAAAGGAAGGCCCCAAAAGGAACCGAGGAAAGGC $C \subset A A C C G G A G A A A A G A A G C A A A A A G G A T C C G A C C A C G A A G G G$ A GACCCAGAAAGGGCCGGAAAAAGGAGGGGGGAAGGGAGAAG

 A A G G G A G G A G G G G G A G G G G A C G A A A GAAAA A G C C A GA G G G G A GAGAAGGAGGGAGAAGCCAAGGGGAAGGAAAACCCAAAGAAA C CAGCAAGAAAGGAGGGACAAACACAAAGGGGGAAGAAAC G G $A$ GAGGAGAAGGCCAGGAGGAAAAGGCCAAGGAGACCAGGGGGG GAGGCAAGGGAGGGGGGGACAGAAGAAGCAGAAACAAAAA GA A G A A A G A G G A G A G G G G G G G G A G G G A A A A G G A A G G A G A A G G A G $A A C C G A A G A G A G G A A G A A G G A A G A G A G A A G G G A G G A A G A A A G$ G G G GACCAAACCAAAAGGAAAGAGAAGAGAAGGGGGGAGGGA AGGGCCAAGGAACCAACCCCAAAAGGCCGGCCAAAAAAGGGG A A G G G GC C G G G G A A C C G G A A C C G G G G A A G GCC G G T T G G G G C C AA G G A A A A A A G G G GAAGGAAGGCCAACCAACCCC G GAACCCC C C G GCCAAAAAACCGGAAGGGGGGAAAACCGGAAAAAAGGAA A A G G G G G G A A G GAA $A \operatorname{GGGGAACCGGAAGGAAGGAAAAGGGGGG}$ AA G G G GCCAAGGAAAAAAAAGGAAAAGGGGAAGAAGAAGGGG G GAACCGGGGCCCAACAAAGGGTAAAGAAGAGGAGGAAGGGG A A G G G A G G A C G GAACCGGGGAGGGGGAGAAGAGGAGAAAAAA A GCAACAGAAAAGGAATAGGGGGGGGAGGAAGGGAAAGAAGG A A A A A A GAGGAAAAAAGAAGAAAAGGAGAGTTGGGGAACA GA GAAGACAAAAAACCGGAAAGAAGAAAAAGGACAAAAAAAAAC

 A G G G G G G G A GACAA A A T T A A GAGAGGCCGGGAGGGACCAGAA C CAAAAGGTTAAAAGGAAGGAAAAAAGGAAGACCAGGGAGGA
 G G G GCCAAAAAGGAAAGGGGGGAAGGTTGGCCGGAAGGAGAA G GAACCAAGGCCGGAAGGAAGGAAGGGGAGGGCCGGAAGGGG G G A A A GACAAGGCCAAAAGAGGGGAGAACCGGAAAACGAABA GAAGGGGGCAGAGGGGGGGAAGGGGGGGAAAAGGAGAGAAAA G GAA A G A GAGGGGGAGCCGGAGGGAAAAGGCCGGAAA
GAACGACAGAAGGAAAGGGAAGGGGGGGGAAAAGGAAAAGG CAGGAAGGGGAGGGACGGAAAAGGAGAGACGGAAGAGAAGGG A A A A C A A A T T A A G A GAAAGGGGGGAGGAGGCC GAAAAA G GAA G GCCGGGACAGAAGAAAATTGGGGAAGAAGAGAAAGAAAGGG AAGGGACGAAAAGGCCAAGGCCGAAAGGAGGGGGGGAAAAAA A A G G A G G G A C A A G A A G A G G G G G G A G GAGAA G GA G G G G G C C C A AGGCAAGGGGGGCCGGAAGAACGAAAAGAGAAGGAAGGGAGG G G G G G GCCAAAACCGGGAAAACAAAAGAAAACGGGGAGAAAA G GCCAATXGGGGGGGAAGACGGGAGGGACCAAGGAGAAGGGG C CAACCAAGGAGGAAAAAGGGAGGAACGGGGAAGGACCAGAA G GAAGAGGAACCAAACAAAAAAGAGAGGGGAAGAAAAGAGAA AA G GAAAACCGGAACCAAGGAAGGGGCCGAAAGGAAAAAAGG AA $A G A A G G A A G A A G G G G A G G G G G G G G A A G A A G G A A G A A G A A G$
 GAAGGAGAGGGGGGGGGGGGGGAAAAGGAAAGGAGAAGAAGB G GAA $A \operatorname{GAA} A G C A A G A G G G G A G G A A G G A G C C A A A G A G G G A G G A$ A G G G A A C A A A G G G G G G G GA G G G A A G G C C G G C A G G G G G A A G G G $G G A A G G G G A A A A G G T T A A G G C C G G G A A A A A G A A G G A G G G A G A$

G G G G GACACCAGAAGGGAGGAAAAGGACGGGGGGGGGGACGG
 G G TAAAGGGGGAGGAACCGGAAGAGAGGAAGAAAGGAGAGAA G G G GACAGGAGGGAGGGGGAGAAAGACCGAGGGGACAAGGCC $A C G G A A A G G G A A C C G G A G A G G G A G A G G G G G G G G G G A A A G G A A$ A G G GACAGAGGAGGGAGGAAGAGGAAGGAACCGGGGAAAAGG A GAG $A \operatorname{G} \operatorname{GA} A G G G A G A A A A A A G G G G G G G A G A A G G C C A A G A G A A A$ $G G A A G G G C G G C C C A A A G G G A A G G A G G C A G A G A A G A A A G A G G G$
 G G GAGGAACCGGAAGGTTAACCGGAAGGGGGGAAAAGGCCAA
 A G G A A A C C C A G G G G G G G G G A A G G G G G G G C C G G G G A A G G A A A G GAAAAAAGGGGGGGAAGGGCCAAGAAAAAGAGGACAACCAT C CAGGACCCCCCAGGGGGAAGGCAGGAGAAAAAGGGAGCCCC AAGGAAAGAAGGGGGGGGGAAAGGCAAAACAAAAGGAAAAGB AACCGGAAGGGGAGGGGAGGAAAAGAGGGAAACAGGAAGATA G GAGCAAAAAGGGAAAAAGCCCCCAGAAAGACAAGGCCGGAA A A C C G G G A G A A A A G G G G G G G G G G A G G A A A G G G A A G A A A G G A A AAAAGGGAACCCAGCCGGTTAAGGGAGAGACCAGAAAAGCAA AA G GCCGAAGCCGGGGAAAGGAAGGGAAGAAAAAAAAGGGGG AAAAGGAACCGAACGGCCGAGGGAAAAAGGGGAAGGATAGCC A A G G G A A GCCTTCCGGCCAAAGAGAGGGGAAGAAGGAGAGAG G G A A A A A G GCCAGGAAGAACGGGGGGGGCAAAAAGAABAAGG C C G G G A A A A A A GCCGAGAAGGGAGGAAAAACCGAAAAAAGCC AAAGAAGACCAAAAAGAGAAAACCCCAAAGGGGGAAAAAGAG G G G GCCGGAAGGGGCAAAGGAAAGAGAAAACCGAGGAAAACA A A G GAGAAAAAGAGAACAGGGGGGCCGAGGAAGGAAGGCCGG C C G G G G G GCCAGAAGGGAACGACAGGAAAAACCCAAGGCAAA A A A A A A G A GAC GAAAAAAAGGACCGGAGAAGGGAGGAGAACA A G G G G G GAAACCGCAAGGAAAAAAGAGAAAAAGGACAGGGGG GAGGGGAAAAAGCCAAGGGGTAACAGCCAAAACAGBAGAAAG AAAGAAGGAAGGGGGGCCGAAACACAATGCGAGACCAAAGAA A GCCAAAAAAGGAAGGAGAGAAGGACGGGGAAAAGGACAGAAA G GCCAAAAAAAAGGAAAACAGAGAAGAGAAGGAAATAGAGAA C CAATTGGAAACGAAAGGAGAAGAGGAGGAGGCAAGAGAGGG GAAGGAAGAAAACCGGAGAAGAGGGGGAAGAAAGAAACAGAC GAAAGAGGCAAGAGGAGAAGGGGGAGAGCCAAGGGGCCAAAA GACAAAGGGGGGGGACAACAGACACCAGGAGGAAAAGGAAAG GAGGAGGGAAAGAGGGGGAAAAAACCAAGGAAGGAAAACCCC A A A A A A A A A A G G G GAAAACCGGAAAAAAGGAAGGAACCCCGG AAAAGAAGAAGGGGAAGAAACCAAAGCGAAAAAGACAAAGAG AGCGCCAGGCGCACGAACAGCCGGCGGGAGAACCCCAAGGAA $C \subset A A A A G G A A C C G G G G A A A A A A A A A G A G G G A G A G G A C A G A A A$ GACCAGAAAAAAAAAAAAAAAAGGGGGGCCGGGGACCCACAA G G A G A A TA A G G GA G A G A A A A G G G G C A G G T T C C G G G G C C C G A A

 G GAAAAAAGGAACCAAGGAAGGGGGGCCAAGACCAGAAAAGA A A A A A A A A GAAACAAAGAGGAAACACGAGGAAAAAGGAAAAA G GAAAGGAGGGAAAAAGGGAGACCCCCCGGCCGGCCGGAAGG GAGGGGAAGAGAGAAAGGAGAGAAAGAAGGAGAGAAGAGAAA A G G G A A G G G GCACCCAAGAAGACCAGGAGGGAGGGACAAGAG A A G GAGCCTTAGGAAGCAAGAAAAGAAAAACCGGAGAAAA GA AAAAAGGGAAAGGAGAAGAAGACAGGCCGAGGGACAAGAGAA A A G G G GCCGAGGAAGGAAAACCGGCCGGGGGGAAAAAAAACC C C G G G G G G A A A A A G A G A A G G G A GAC GACAC G GA GCCAGAA G G G GCCAACCGGAAAAGGGGAAAAAACCAAAAAACCAAAAAAGG A A G G A A A A A A G G G G G G G G A A A A G GAAGGGGCCAAAAAAAA $A \operatorname{A} A$ AA $\operatorname{A} G A A A A G G C A A A G G A A G G A A A A A A A A G G G G G G C C G A A G A G$

A A G G G A A A A A G G G G G G A A C C G G G G A A GGGGCAAAAAGAAAAG A GCCGAGAAGCCAGAGGAAAGGAGAAGAAGAAAACCAAGGGG AACCGGGGGGAAAAGGAGGAGAAAAAAAAAAAAGAACAAGAA A A G G G G G GCC G G G GCCAGAATTGGACGGAAAGACGAAGAAAA $C \subset A G A A G G G G G G G G G G G G G G G G A A G A G G G G G G C C G A A G G G C C$ AAAACCAAAAAACCAAGGGGGAGGAAGGAAGGCCCCAAAAAA
 GAGGAAAGAAAAGGAAGGGGGGAAAAAAGGGGAAAGAACCCG A A C C G G A A C C G G T T T T G G A TACA GAAA GTTCCCAAAG GAACA AGCCGAAAAGAAAAAGCCAAAAAAGGGGCCAAAAGGAAGGGG G GAAAAAGAAAAGGGGGGAAGGGGGGGACCGGGGAGCAAAAA AAAAAGCCCCCAGGAAGGAAGGGACCAAAAAGAACCGGGGAA A A G G A A A G G G A A A GAA A A CACAGAGGGGAAGAAAGGGAAAAA G G A A A A A A G G G G G GCCCCAAAAGGAACCAAAACCGGAAGAAA G GAAGGGGGGAACCGGAACCCCAAGGAACCGGCCAACCBGAA A A G GAA A GAA $A \operatorname{A} A A G G C C G G G G G G C C G G G G A A A A C C G G A G A A$ $A C G G C C G A C A A C A G G A G A G G C A G G G G G G C C A G G A G G A C A A G G$ G G G A G A A A G G G A A A A A A A A A A A G GAAGAAAAAAAAA GAAGGGG $G G G A T T G G G G A A G G A G A A A A A G G G G G C C G G C C A A A A G A G G G A$ A A A A A A A A A T G GACAGACGGGAGAGAAAAGAGAAGGGGCCGG AAAAGGGAGGCAAAAACCGGAAGGAAAAGGGGGGAGAGAGGG G G G G G A A G G G A A G GAGAAGGGAGAGGAAGAAGAGGGGAAAAA A G G A GCAACCAAGGAAGGAAAGGGAAGGGAGGAGAGAAGGAG ATAAGGCAGGAAGGAAAGAGAAAAAAAAGGAGAACCGGAGAA

 G GACACAAGGGGGAACGGCCGGAAAGACGGGAGAAAGGGGGG GA $A$ A A $\operatorname{A} G A G A G G G G A G A G A A A C G G G G A A A A A G A G A G C A A A G G$ G GAA $A \operatorname{G} \operatorname{AAAAAGGAAGAGAGAGAGAGGAGGGAAGAAAAAAGAG}$ G G G GACGAAAAGGGAAGGGGCAAGGGGACCGGGAGGCCAAGA G G A A A A A A A A A CA $A$ TA $A G G G G G G G C C G G A A A C G G A A A A A A G A$ G G G GAGAAGGGGAAGGGGGGAAAAGGAAAGGGGGAAGGGGAC T TAA $A \operatorname{GA} A G G A A G A A G A A A A G G A A G G G G G G A G G G G G C C A A G G$ G GAAGGCCGCGGCCGACGCCAGAGGGAAAGAAGGGGACABGA CAAAGAGGAAGGAGCAACAAAAGGGGAGGGGAGGAAAGAAGAG GAAAAAGGAAACGGAAGGAAAACACAAGAAGGCAAGGGGGGA G G G GCCAAAAAAGAAAAAGGAAAGGAGGAAAAGGACAGGGGA GAGAAAAAAAGAAGAAGGGAAGGAGGCCAAAGAAAAACGAGG G G G G A C G A G G G G G G C C A A A A C C A A A G G G G G A A G G A A G G G G A A GAGGAAGAGGGGAAGAGGCGGGAGAGGAAGGGGGAAAAAAAAA G GAAGAGACAGGAAGAGGCAAAAGAACCCCCCAAGG
GCCGGGGAAAAGGGACAAAGAGAGGCAGGAGAAGGAAAACG AAAGCCGGCCGGAGAGAGAAGAGGGACAAAACGGAGCAAGAA A GCAGGCCAAAGAGGGGGGGGGGAAAACGAAAGGAAGAAAGA G G GAGACCGGAGAAAACCAACAGAAGAAACGGGAAAGGGCTT GCAAAAAAGGGGGGGGCCAAAAAGAGGACGGGCAAAGBACCC G GAA A GAGGACCAAAGGAAGGAAGCCGAAGCAGAACGAAGAG AATAGAGAAAGGGGGGCCAAGGGAGGGGAAGGGGGGAAGGGG A G G G G G GACCAGGACCCCCCGGAAGGACGGGAAAAAGGGGAG AAAAAAAGGGAGTAGAGGAAACGAAAAAAAAAGGGGAAAAAG C CAAAAAATTGGCCAGCAAGAAGGAAAAAAGGGGGGGAACAA GAGGGGACAGGGGGGGAAGGCAAGAAAAAAGGAAGGGACCAA A A A A G GAGGGAAGGCAAAGGAAGAGAGGAGAGAGAACAAGAG GGAAACCCAACCAAAAAAGAAGCCAAGGGGGGCCAGAAGAAG G GAAAAGGAACCGGGGAGAAAAGGGGAAGGGGAACCAGAAAA A G A A A A A A T T A CA $\mathcal{A} A G G G A A A G G A A G G A A G G A G G A G C C A A A G$ GACAAGGGGGAAAGAAGCCCGAGACAGAGGGGAACCAAAA G G GGCCAAAAAAAGAAGGAAGGAGAGAAAAAAGAACGAAAAAABG AAGGGGAAAAGGGGAGGGACAAGGAGGGCACAAGAAGGGAGC

G G G GA GAA A GAAGAGGGGAAGGAAGGCCAAAGAAAAGGACAC A A GACA A A G G GAGGACCAAGACGGGGAAAAAGAAGGCCAGAC $G G A A C C C C A A A A G G G G A G A A G A G G G G A A G G T T G G A A G G A A G A$ G G G GAGAAAAAAGGGAGGACCCGGAGGGGGGGAAGAAAAACA A A A A GA A A G GAAGGAAAAGGGGGGGGAGGGAGAAGAAAAAA G
 G GACGAGGAGAACCAAGGAGCAGGGGGAAAAGAGAGGBACAA AGCCGGAAAAAAGAAAGAGAAGGAGGGAGACCCCGAGGAAGA G G G G G G A A G G A A A A GAGGAGAGGGAAAACCCCAAGGACA GAA AGAAAGAAAACCCAGGGAAGCAGGAAAAAAAAGGAGGGGGAG GAGGCACCGGCCGGGGGAAAACGGAAAAGAGGACGGCACCAA G GAAGCGGAAGGGGAAAAAAGGAGCCCCGAAAGGGGAAAACC GAACGGCCAGAGAGGGAAGAGGCCAAGGAAAGACAACGAACC C C G G G G C C A A G G A G G G G G G G C C A G A G G G A G G A A G G G A A A A G G G GAAGGGGAAGGCCAAGGAAAAGGGGGGAAGGGGAAGGTXAA A A G GAAAACAAGGGCCGGAGCCGGGGGGAAGGAAAGCCAAGA G GAAAGCCAGGAAAAAGGGGAAGGAACCGGAAAAGGCCAAGAG C C G G A A $\mathcal{A} G G G A A G G G G G G G G G G G G A A G G A A G G G G G G A A A A C C$ A G G GAA A GAGAGACCCGGAACCGCGAAGAAGGGAAGGGAGAA C C G GAAA $A$ A A $\mathcal{A} A G G A G G G G A G C A A G A G G G A A G G C C G G G G A G G G$ C CA $A$ A $\operatorname{A} G A A G G G G G G G A C A G A A A A G G G G C C A G A G A G A A A G G A$ A A GAAA A A G G G G G G A A A G G G G A A GAGAGAGAGAA GA GAAAAA A GAA A GCCCCCCGGGGACAAAGGGGAAGAGAAGGGAAAGGGG GAACAAAACCGAAGAAAGAACAGGAAGGAGGGGGAAGGAAGB
 G GAA A A A G GAGGGAGGAAAAAAAGGGGAGGAGAGCAAAGGCC

 A A G G G A G G GAGCGGAGAAAGGAGGGGGAAGAAAA GAAAAAAC C C G GAGGGAGAGACGACCAGAAGGGGGATTGGGGGGGGAGAA GAGGAAGGAAAAGGCCGAGAAAAAAACCAAAAAGAGAACGCA AAGAAGCCAGAGGGCCGGAAAAGGGAAAAAAAGGAGAAAAGG C C G G G GACGGGGGGAGAGAAAAGACCAAGGAGGGAAAA G GAAA A A G G G G G A G A A A G A C C G GAACCGGGGGGTTAAGGAAGAAGAA GAGGACAGCCGGGGAAAACCGGGGAGAAGGAAAAGGGGAAGA C C GAGACCAAAGGGGGGAAAAAAAAGGAAAAAGGAGGCACCC G GAACAAGCAAGGAAAGGAGGGAGCCACCCGAAGGAGGAAGA GAGCGGAAAGCAGAAGGGAACCGAGGAAAGACAAAAACGGGG A G G A G G A G G G G G G GCCAGGAAGAACCAAAGCCGGAGGGCCGG
 $G C A A A A A A G A A G G A A A C C C C A G G G A A A A C C G A C A A G A A G G G G$ G G G A A GAA $A \operatorname{GAAAGGCCGAAAGGGGAGAAAAAAGGGCGAGGAA}$ G GAAGGAAAAGGAAGGAAGGCCAAGGAACCAAAGAGAGAAGG GAGGAAAGAAAAGGAAAAACAGCCAGAGGAAAGABAGGGGGG A A G G G A A A A G A A A A G G G GAA A GAGGAGAGGAAGGGGACAAAA G G G G G G G G G G A A A C C A GAG G C C G GAAG GAAAA A A A A A G G G G G G C C G G G GAA $A \operatorname{AGGGGGAAAAGGCCGGAAGGAAAAAAGGGGGAAA}$ G G G GCCGGAAGGAAAAAAAAAAGGGGAAAAAAAAAAGAAAAA G G G G A A A A G G A A A A G G G G G G G G G G G G G G G G G G A A G G G G G G G G
 G GAAAAAAGGAAGGAAGGAAGGGGGGAAGGAAAAAAAAAACC A A G GAAGGGGGGCCGGGGGGCCAAAAAAAAAAAAAAAGAACC A A A A G A G A G G A A A A A G A G G G A G G A A A G G G A A G G A A GA GAA C C A GAACACAAGAGAGAGGAGAAAAGAGAGAGGGGGGAAAAAAC GAAAGAGGAGCAGGGGGAGGAGAAAAGGGGGACAGGGACCAG $A G A A G G G G C A G G G G A A A A A A G G G G G G C C G G A A G A G G A G A G A G$
 A A G G A A G GCCAGA GAAGAAGAAAAGAAGGAAGACGAGGACAB G G GAAAAAGGGGACGGAAGGAAAAGAAAAAGGGGGGAACAGA

GAAACCGGAAAAAAAAAAAAAGGAAACAGAAAAAAAAGAGGA AC GAAGAGCAGACACCAGGGACAGGGAAAAAACCGGAAGGAG CA $A \operatorname{GA} A A A A A G G G G G G G G G G A A C C A G A G G G G A C C C C G G A G G G$ GACCGGAGAAAGAAGAGAGGACGAGACAGGAAAGAGAGAAGG GAAGAGGGAGAGAGGAGGGGAGAGGAGGCCCAGGAAAAAACC GAAGGAGGAAAAGGGGGGCAAAGAGGGGGAAAGAAACCAA GA A A A A A A G G A G A TA $A \operatorname{GG} \operatorname{GA} A G G A A A A A A A G G G A A A G C A G A G C C C$ AACAGGAGAGGAAAAAGGAGAGGACAGAGACAGAGACAAGAG $A G A G G A A G G G G G G A A A G A A G A A A C G G G G G G A G A A G G A G G A G G$ AAAAGGGGGGGGAGGGAAAAAAAAAAAAAAAGAAAAAGGGAA A G GAGGCCGGAAAAGGCCGGGGAAAGGGGAAAAAACGGAGAA
 GAAAAAAAGGAAAACCGAAGAGGGAAGGGAACAAACGAGGGG A GAGAGAAGGGGCCGGGGAAAAAGAAAAGGGGGAGAAAAAAG GACCGGGGGGGGCCGGAAGGGAGGGACAACAGGAACACAGGA ACAAAGAAAGAGAAAGATAGAAGGAGAGAAGAGGAAAAGAAA G GAGAGGGCAGGGGGAGAAGCCGGAAGGAAAAAAGGGGAGAA G G A A A A G G G G A A G G G G A A A A G G G G G G G G G A A G A A A A GAA $A$ G $G$ GACCCCCCAACCGGGGAAAAAAGGCCCATTGGAGGAGGAAAG CAAAAAGGGGAGGACCAGGAGGGGAAGGGGGGGGGGGGGGCC AAAAGGCCAAGGAAAAGGAAAAAAGGAAACAAGGAAGAGGCA GAAGAAAAAAAAGGAAGAAAAACCCCCCCCAACCAAAAGGGG G G A A A A A G CA $A \operatorname{GGGG} \operatorname{GA} A G A G A C G G G A G A G G T A A C A G A A G G C C$ A A G G G GAACCCCGGAGAGCAGAAGAGGGTTAGGGAAGAAAAA G GAGAACCAGGGAAGGGGCCGACAAGCCGAGGAAAAAGAGGG G GAGCCCCGGCCAGACGGAAAAAAGGAAGGAAAAGGACAGAG AAAAGGGGAAAAGGAAAAAAGGGGGGCAGGAAAGAAAAACAA A A A A A A C C G G G GAGAGGGGGAAAGCCAGAAGGGAAGAGAGAA
 GAAAGGAAGGAAGGGAAAAAGGGGAAAGCCCCGAAGCACAAG G GCCAA G G CA GAAAGAAGAGCCAGAACCCCGGGGGGGGGGGG

 $A G A G G G G G A A G G G G A G A A G A G A A A A A A A A G G G G G C C G G G G A G$ A A A G A A C C C C G G A A G G G G G A G A A G A A G G G A G G G A G G G G G A A A C G G A A G G G G A G G A A A G G A GCCAAAAAGCCCCAACCAAACAA G GAAA AAAAAAAAAAAAGCGAGAAAAAAAAGGGAAAAGAAAA GACCCCAGACGAAAAACAAAAAAAAAAAGGGGGGGGTTGGGG

 A A A A A A A A G G A A A G G G G GACAGGGAAGGAGGAGAAAA
A A A A A G G G A A G ACCAAGAAACAAAGAAAGGAAAGGGGAAA G GGACGGACAACCGGAGACACCCGGAAGGAAAGAGAACAAAAG G A G A G G A G G A G A G A G G G GCCGGTTGGGGAAGGGGGGAAAAA G A G G G A T G G A A A A A A A G G GCCAAAACCGGAAGGGGAGAAA GAA G G G G G G A G T T A G A G G A A A A G G G A A G G A G G G G G A A A A G G A A G G G G G GCCGGGGGGAAAAGGTXAAAAAACCGGCCAAAAGGGGGG A A G GCCGGCCAAAAAAAAGGGGGGAAGGGGGGGGAAGGGGGG A A G G G G G G A A G G G G G G G G G G G G G G A A A A A A G G G G C C A A G G A A G GAA A G G G A A G G G G G G G G A A G G G G C C G G A A A A A A A A G GAAA A G GAAGGCCAAAAAAGGGGAAAAGGAAAAAAAACCAAGAAAAA G G A A G G G G G G C C G G G G G G A A A A $\operatorname{G} G \mathrm{G} A A A A A G G A A A A G G G G G G G G$ G G G G A A G G A A A A G G G G T T G G G G G G G G G G A A G G A A G G A A G G G G TTCCGGAAAAGGGGAAAAAACCGGAAAAAAAAGGGGAACCGG AA G GAAGGAAGGAAGGAAAAGGAAGGAAGGAAAAAAGAAAAA AAGGAAGGAAAAAAAAAAAAGGAAGGGGAAAAAAAAGGAACC A A A A A A $\mathcal{A} G G G G G G G G G C C G G A A G G G G A A G G T T G G G G G A A A G A$ $G G C C G G G G C C G G G G G G G G A A A A G G G G G G A A G G C C A A G G A A A A$ $C C G G G G G G A A A A G G G G A A G G A A A A G G G G A A A A G G G G G A A A T T$

G GAACCAAAACCAAAAAAGGAGAGAAGGAACCGGGGGGAAAA A A A A G GAAA A G GAA A GCCGGAAGGGGAACCGGCCAAGGCCGG C C C C G G G G G G G G G G G G A A A A C C G G G G G G A A G G G G A A G G C C G G G G G GAAAAAAAAAAAACCAACCTTCCGGAAGGAAGGCCAAGG AAGGGGGAGGGACCAACCGGGGTAGGCCACCAGAAGAAAACC G G G G G A G G G G G GCCAAACACAAGACCGGAAGGACAAGAGAAG GAAGGGCGGGAACCAACCAAGGAAAAAAAAAAAAAAAACAAA G GAAGGGGGGCCCCGGGGCCAAAAGGAAGGGGGGAAAAAACC G GCCGGGGGGAAGGAAGGAAAACCGGGGGGAAGGAAGGAAAA AAGGAAAAAAGGGGGGAAGGAACCAAGGGGAAAAAAAAGGAA AAGGAACCGGAAGGAAGGAACCAAAAAAAAAAAAAAAAAAAA A A G G G GAATTCCAAAAAAGGAAGGAAGGGGGGAAAAAAGGAA AAAAGGGGAAAAAAGGAAAAAAAACCAAGGAACCAAAAGGAA A A G G A A G G A A T T G G G G A A A A A A G G G GCCAAGGAAAAGGAACC AAAAAAAAAACCAAAACCGGGGAAAAAAGGCCGGAAGGGGAA AAAAGGCCAAGGAAAAAAGGCCAAAAGGAAAAGGGGGGAAAA A A G G G G G G A A G GAAAA A G GAACCGGAAAACCAAAAAAGGAGAA $C \subset G G G G G G C C G G G G A A A A G G A A A A G G G G G G A A G G C C A A G G G G$ $G G A A G G C C G G A A A A G G C C G G G G A A G G A A G G A A G G A A A A C C G G$ A A T TCCGGAAGGGGAAAAAAGGAAGGGGAAAAGGAACCAAGG G G G GAAAAAAAAGGAAAAAAAAGGAAGGCCCCAAGGGGAAAA G G G G G GAACCAAAAAAAAAAGGGGAACCGGCCAAAAGAAAAA A A A A A A G G A A A A G G G GCCCCGGGGGGGGGGGGGGAAAAAAAG $G G A A A A C C G G G G A A A A G G G G G G A A G G A A G G A A C C A A A A G G A A$ $G G A A A A C C G G A A G G A A G G C C G G G G A A G G G G A A G G G G A A G G A A$ A A A A G G G GCCGGGGGGAAAAGGAAAACCAAAAGGAAAAGGGG G G G GAA $\operatorname{A} G A A G G A A A A A A G G A A A A A A G G A A A A A A A A A A G G G G$ G GAAAAGGAAAAAAAAGGGGGGGGAAAACCAACCAAGBCCAA G G A A A A G G G G G G G G G GCCAAAAAAACAGGAAGAAAAAGAAA GA A A A A C CA $A G G T T G G A G G A A G G G A G G G G G G G C A A A G A A A C A G B$ G G G A A A A G A C G A G A A G A GAGCACCGGCCGGAGAA G GAAAGAA AAAGGAAGAAAAAGCCGGGGGGCCAAAGAAGGCCAAGGAACC
 A A G GAGAAGGAAAAGGGGGGAAGGAACCAAGGAACCGGAGGG
 G GAAGGAAGGAAGGGGAGACCCGGAACCAGGACCAAGAAAAA AAGGCCAGATGGACGGAAAAACACAACCGGGAGGAACAAGAG G GAGAAGAGGAGACGGAGGAGAAGGAAAAGAGACAGAAGGGG A GAAAAGGAGAACGAAGGCCGGAAGGAAAAGGGGAAAACAAA G G G G A A G G G G G A A A A A $\mathcal{A} G A A A G G A C A G G A A A G G G G A G A G G G G$ AAAGGGGAAAGGAGGAGAAAGGGGAAAAGGAAGGAGGAAAAG A A GACAGGAAGGAAGGCCCCGAGGAAGGCCAAAAAAGGGGGC GAGAGAAAGAGAGGCCGAAAACGGAAGGGAGGACAAAGAAAC G GAGAACAGGAAAGAGGGGAAGCCACGAGGGGGGAGGAGGGG G G GAGGAAGGCCGAAAAACAGAAAGGAGAGGGCAAACCAAAA GAAAAGAGAAAAGAGGAAGGTAGACAAGAGGGGACCAAGGGG CA $\operatorname{G} G A A A A G A A A C A C A G G G G A G A C G C A A G G A A A A G G A A G G A G$ AACAAAGGGGAGGAAGGGAAGGGGGAAAAGGGAAAAAGAAAG A GAA $A \operatorname{GAA} C C G A G G A G G A G A A A C C G G A A A A A A G G A G G G C C A A$
 G G G GCCAAGAGGGGGGAGGGAGAAAACCGCAAAAAAGGCCGG G GAGAAAGGACAAAGGGAGGAAGAGGAGAACCGAA GAGAGGA A G A A A GCCAACCCCAGGGGGGGGGGGAAGGAGAGAGGAAGCC A GAGAGGGAACCAGGGAAGAGAAAAAGAGAGAGAGGAA GAGAA G G G G G A C A A A C C G G C C C C G G G G A A A G G G G G A A A A G G C CAAC C G G A A A A G G A A A A A A A A A A A A A A G A GAAGAAACAAGAAAAAC G
 GACACCGGCCAGGAGGCAGAAGCCAGATAAAAGAGAAAAAAG GAAGAGCCAACGGGCAGGGGAAGGGGGGGGGGGGGAGAAACC

AAAAACAGCCAAGGCCGAGGAAGGAAAAGGAACCAGGGAAAG A GAGGGAAGGAACCCCGGAGCCAAGGGGGGGGCCGGAAAGAA $G G A A A A A G A C G G A A G G C C G A A G A G G G A G A C G G G G A A A A A A A A$ AAAAGAGAAAAGCAAAAAGGGGAGCCCCAGAAGGAAAGAAAA AA $A \operatorname{GGGA} A A G G G A A A G G G A A A A G G G A A G G A A G A G C C C A A A A A$ A A G G G G GCCAACAGAACGAAAGGAGGGGGGAAA GGGGGGGAG A A GAA ACAGGGGAGAAAAGAAAGGAGGGAACCGAAAGAGACC ACAAGGGGAAGGACGGAAAGAAGACGAACCGGAAGGCCGGAG CAGACAAAACCAAAAAAAGGGGCCGGGAGGCCACCACCAGAA AAGAGGAACCAGGGAGAGGGAAAAGGAAGGAACCAGAGGGAA A A GAAA A A G G G GAAAAAAGACCCCAAGGGGGGACGGGAAACA GAGAAAGAGACCAGAAAAAAGAGAGGAAGGCCGGGGAATTAA AAGGGGGGCCAGAGGACCGGTACCAAGAAGAAAAAAAGGGGG A GAGGGGAAAGAGGCCGGAAAACCAGGAGGCAGAAAGGABAA $T \mathrm{~T} G \mathrm{G} A \mathrm{~A} A A A A A A G A G G A G G A G G A G G G A A A A A A A A G G G A G G G G$ A GCCGGAGCAGGGAAGAAAAAGAAAAGGGGAACCAAAAGGGG G G G GCAGGGAAAGACCGGAAGGAGAAGAGGTTAGAAAGAGAA GAAAGGAAAGAAGGGGAGACAAGGGGGGCCCCAAGGAAGAGA A A A A TTCCGAAAACAGGAGGAGGGAAAGCCAAAGGAAACCGG GAACACCCAGAAGAGACCAAAAGGAAAGGAAGAGAGAAAAAG G GAAGGACCACCAGAAGGGAAAGAAAGGAAAAAAGACCGGAC G G GAGGGAAAGGAGCCGGGAAAAACAGGAAAAGGAAGAGGCC GAAAAGAAAGGGGGAGAGGAGAGAAGGAAGAACCBGGAAGAA ACGAAGAGTAAAGGGGAGCCGGAAGGAGCCGGACGGGGAGGG A A A G G G G G A A CCGGGGAGAGAGAGAGGAGAAAGATTAACCAG AAGGAAGGGAGGCCGGAAGGAGGGGGGAGAGGAAAAGGCCAA CAGGGGGGAGGGGGAAAGAAGGAAAAAAAACGGGAGACAGAA G G G GCAGGGGAAAGACAGCAGGGAAGGAACGAGGAAAAAAAA $A G C C A G G A G G C C A G G G G G A A A A G A G G A A A A G A A G G G G G G G A A$ $A C G G A A G A A G A A C A G G G G A A G G G G A A C C A A A G A A A A A G A G A A$ A G A A G A G G G G G G A A A A G G G G A G G G A G A A C A G G A A G G A A G G G G A A A A A A A A A A G G G G G G A A G GAAAAAAGGGGAAGGGGAGCCCC A GAAA A A A A C C CAA $A \operatorname{A} G A C G G G G G A G G G A A G A A A A A A G G T T A G$
 A A A A A ACCCCAGGGGGGGCAAACCCAAAGGGAGGGGGGAGGG A A A A A G G A A A A GCCAGAAGGGACCCCGAGAGAACGGCCGGCA A A G GAGGAAAGGAAAAGAAGGGGGGGACGAAGGAA GAA GGGG G G G G G G G G A A A A A GAC $\mathcal{A} G G G A A C C G G A A C C A A G G A A A G G G G G$ AC G G G G G G GAA A A C G GAGGGGGAAAAAAAAGGGGGGCACAAA G G G G G G T T A A A A A A G G A A G G G G C C A A A A A A A A A A G G G G A G G G AACAAAGGGGGGAGAGAAGACAGGAAGAAAGGGGACG
GCCAAGGGGAAAGACAAGAAAGGAAAGGAAACCCCAACCGA GGAACCAAAGGGGAAAAACCGGGGGGAAAAAAGAGAGGAGCA A G GAA A A A GACCGGGGAACCAAGGAACAGGAAAAGACCAAAG C C GAGGAAGGCCGACCCAGGGAGGGAGAGAAAAAGGAAAAAA G G A A A A A ACAGAAGAGGAAGAAAAGGGGACCAAGAAGAAAAA AAAATACAGGGACCAGGAAAGGCCGGAAACAAAGGAAAGGAA G GAGGAGGAAGGGAGGGAGAAGGAAAAAGACCGGAAAAAAAG G GAGACAAAAGAGGGAAAGAGGAAAAGAAAGGAGGACAAAAA A A G G G A A A G G A A G G G G G A G A G G G A A A A A A A G GA G GAGGC C C A G G G G G G G G A G G A G G A A A G G GAC GAGAAGGAAACCAACAGGAA AA $A G A A G G G G G G G G A G C A A A A A A G G G C A G A A A G G A A C A A A A G$ A A G G G GA $\operatorname{A}$ A A A A A G GAGGGGGAAAAAAAAAACCGAGAACAGAC CAAAAAAAAAGGAGGGAGACGAAGAAGGGGAGGGAAAGAGAA G GAAAGAAAAGGGACCCCAGGGAAAAAGGGAAGGGGGGCAAA A G G G A A A A G G G G G GAACC $\mathcal{C} G G G G A G G G G G A A G G C C G G A A A A A A$ AAAAAAGGAGGAGCAGGGCAAGAAGGAAGGGGGAGGAGAGAA A G G A A A C C A A C A C A A G G G G G G G A A A A G G G GAAAA G G G G A A A A $A A G G A A A G G G A G G A A G A A A G G A A G G A G A A C A A C C G G G G A A A G$

ACAGGAGAAGGAAAGGGGAAAAGAAGGGAAAACCAAAGGGGG G G A A A G G A G A G G G G A A C C A A G G G G G G G G G G G A G G A G A A G G A G G G A A A A A GCCAAGAGGGGGGACAAGGAAAAAAGGAAAAAAAC $C \subset A C A G G G A G G G G G G G A A G G C A G G A G G G C C G G G G G G G G A A G A$ G GA A A G G GAGGGAAAAAAGGGGAACAAGAGGGAAAAAAAGGG A GAAAAAAGGGGGGAAAACCCCAAGGGGGGAACCAAACGGGG G GAACCCCAAAAAAGGAACAGGACGAGAAGGGAAAAGGGGGG C CAA $\operatorname{C} G A G G G A A C C G G C A G A A C A A G G A C A A A A C A A G G G T T G G$ G G A A A GCCGGAGCCCCGGGAGAAGACAAGAGABAACGGGGGG
 A A G G A A A A G G A A G G G G G G G G G G G G A A C C G G A A C C A A G G G G G G G G A A G GCCAA $\mathcal{A} G A A G G G G A A G G G G G G C C A A G G G G G G G A A A G G$ G G G GCCCCAAGGAACCGGGGGGGGAAGGCCGGCCAAAAAAAA G G A A C C C C G G C C C C G G G G A A G G G G G G C C G G C C A A A A G G G G C C AACCAAGGGGGGAACCGGGGAAGGAAAACCGGAAGGCCGGCC AA $A \operatorname{GGGA} A A A G G G G A A G G G G C C A A A A G G G G A A A A G G A A G A A A$ G G A A G G A A A A G G G G G G T T G G G G G G A A G G A A G G G G G G A A A A $G$ G G G G G A A A A G G A A A A G GCCGGGGAACCAACCGGGGGAAAAA G G C CAA $A G A A A A G G G G A A G G A A A A A A G G G G G G A A C C A A A A A A G G$ A A C C G G G G A A C C G G G G A A A A G G T T G G C C G G A A C C G G G G G G A A G G G GAAAAGGGGGGAAGGGGAAGGAAAAAAAAAAGGGGACAA G G G G G G G G A A G GAACCAAAAAAGGCCAAGGCCGGCCGGGGGG A A A A A A G GCCAAAACCAAGGAAAAGGGGAAGGAAAAAAGGAA C C T T G GAA $A \operatorname{GAA} A G C C A A A A A A G G C C A A G G C C G G A A A A A A G G$ AACCGGGGAAAAAAAAGGAAAAAAGGAAGGGGGGGBAAAA GG A A A A A A A A A A A A G GAA $A \operatorname{GGGAAACCGAGGGGAAAAAAGGGAAA}$ G GAACCCCCCGGAAAACCGGAAGGAAGGGGGGGGGGAAAAAA C C G G A A G G A A A A G G A A A A A A C C G GAA G GAA $A \operatorname{G} G C A A A G G G G G G$ G G G G A A G G G G A A G G G G C C G G A A G G G G A A A A A A G G G G G G A A G G
 A A G G A A G G G G A A C C A G A G G A G G A GAGGAGGAAAACCGGAA GA GAAGAAGAGAAAGGCCAGAAAAGGGGGAAGAAAAAAAAGAGG A GAGGAAGAGAACCAAAAGGAAGGGAAAGGGGGGGGGGGGGG G G A A A GCCAACAGAGAAAGGGGAAAGCACAGGAGAAGAAAGG
 $G G A A A A A A G G A A A A G G G G G G A G C C A A G G A A G G A A C C G G A G A A$ C C A A G G GACAGAGAGGGGGGAAGGGGGGAGGGGGAAAAAAAA A G G G G A G GCC G G G G G G A A G GAA A G G GAAGGGGGGGGCAAAAA G G G G A A A A A A G G G G G G G G G G A A A A C C A A A A G GAGAA A A A A A A G G G G G G G G A A A CAC $\mathcal{A} G C C G G C A G G G A G A A G C C G G A C A A G G A A$ A A G G G GCCGGAGGAGGAGAAGGAAGAAGGGGGAAGAAAAAAA
 G G GACAGAAACAGGGAGGAGAAGGAAGGAGACGAAAGAAAAG A GAAAACCAGGGCAAAGGAAGGCCGGAAGGAAGGAAGAAAAA A A A A G G A A G G A G G G GAGGAGAAAAAACCAAAAAAAAAAAGGGG G GAA $A \operatorname{GGG} \operatorname{GA} A G G A A A A C C A C A C A A A A A A G A A A G G C C G A C C A A$ A A A A G G A A G G A G G G C C A A A GAAC CA A G G G G G G G G A A A A G G G G AAAAACGCGAGAAAAACAGGAACAGAAAGGAGGAGAGAGAGA G G G GAGGGAAAGGGACGCGGAACCGGAAAAAAAGAAAGAAAG GAGAAGGGCCGGAAGGCCGGCCGGAAAAAAGAAAAAGAGGCC A A G GAAAAGGCCGGAAAAGGCCAAAAGGAAAAAAAAGGAGAA G G G G G GC C G G A A G G G G G G G G G G G G A A A A A C $C A A B G A A C C G G G G$ G G G G G G G G G G A A A A A A A A A A A A G GC C G GAA G G G GCCCACCCC GGAACCCCCCAAAAAAGGAAAAAAAAAAGGGGGGAAGGGGGG C CAACCAACCAAAAAAGGGGAAGGAAGGAAGGCCGGAAGAAA AA G GAAGGAACCGGCCAAAAAAAAAAGGGGAAGGAAAAGGAA
 G G G G A A G G G G A A C C A A G G G GAC GA G GAGGGTAAAG GAAA G G A $A G G G A A A A A A G G G G G G G A A G G A G G G G A G A A C C G A A A A C A A A A$

C CAGGGTAAAGGGAAAAAAGAGAAGGAAAAAAAACAAAAGGG
 G G G A A A A C GACCCAGGAGAAGAGGTTCCGAAAGGGGCAGAGA AAAAAACCAGAGGGCCGGAGGAAACAAGAGGGGGGGGGAGAA GACCGGCCAGGGGGGGCCAAGGAAGGCACCAGAACAGGAAGA G G G A G G G G A A G G G G GAGGCCCCAAGGAAAAAAGGGAAAAA G G GAGGAGAGGGAAAAGGGAAAGGGAAGAAAAACAA GAA GAGAA G G G G G A G A G GAGA $A$ A $A$ TAGACGGGGGGAAAAGGGGGGGGCCCC G G C C G G A A G G A A G G G G A A A A G G C C A G G A A A GA G G G G A G G G A A G GAAGAGGAAGGAGGGGGAGCGGGGAAATTAAGGGGCCAAAA G GAAAAAAAAGGTAACAAGGAAGGAAGGGGAAAACCGGGGAC A G G G G G A T CA $\operatorname{CAAAAGGGGAAAACCAAGGCACCAAGGCCAAAA}$ T T G G G G G G A A T TAA A C G G C C A A A A A G G G A A G G A A G G G A GA G A GAAGGGGGGGAAGAGAAAAGAGGAAACAAGGAGGAGAGAAAA G GCCGGGGCCGGGGAAAAGGGGAACCGGGAAGAGAAGGAAAC

 GAAA A G G G A A G GAAAAAAAGGGGGGGAGGAGGAAACGAAGAG AAGAGGCAAAAAGAGAAGGGAAGGCCAGAAGAACAGGAAGAG G G A G G G G G G G G A C A A $\mathcal{A} G G G G A G G G A G A G A A G G C C G A A A A A G G$ G G G GAACCCCCCGGGGGGAAGGGGCCAAGGCCAGGGAAGGGG AA $A \operatorname{G} G A G G A G G G G G G A C C A C A A C A A G G G G G A A G G A A A A G A A C$ $G G C A G A A C G G A A G A A G A G A C A G G G A A G G A A G A A G G B A A A A G A$ G G G G A A G G G G A A G G A G G G A G G A G G G A A G A C A A A A A GAC G G G G A A A G GAGACCGGAAAAAGGGAAGGGGGAGGACAAAAGGGGGG G G G GAA A A G GAAAAGGAACCCCGGGGAAAAGAAGGAGAGGAG GAAAGGGACCGACAGGGAACCCGAGAGGAAAGAGAAGAAAAG GAAGAAGAGGGAAACGGGGAGGGAGGGAGAAGGACACCAACA $A G A C A A G A G G G G G A G G G A G G G G G G G G G A G A A G C C G A G A C C B A$ AC G GCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGCC G G G A A C A G A G A G A G A A G G A A G G A A G G G G G A A C G G C C A A G G A G A G GAGAGAGAGGAGAGAGAGACGGGGACAGGAAGGGAAGGGG
 G G A A A A A A A G A A G A A G A A A A GAAA GAAAAAAAAA G GACAGA G A A A A A A A A A G G G G G G G A GAAA $A \operatorname{AGGAAGGCAGGACGGAAAAAG}$ A G A A G G A G G A A A A A G A GAGACCGGCCAGCCAAAAGAACAGCC
 AAAAGAGGAAGGCCAAAGAAAGAGAGGGGAGGGGAGGGAAGG A G GA G A A G A A A G G A GAAA $A$ A A A G GACAACAGGGGGGAGAAA G G G G G G G G A A G G G A G G G G G G A A G G A A A A A A G G A A G G G G G G G G A A A A G GAAAAGGAAGGGGCCAAAAAACCGGCCGAAGGA
A G G G G A A A A C C G G A A A A A A G GAA A GGGCCGGAAAAGGGAAA AACCAAGGGGAAGGCCAAAAGGAAAAAAAAGGGGAAGAGGAA G GAA A GCCGGAAGGAAGGAAAAGGGGGGGGCCGGGAAAGGAA A A G G A A G G G G G G A A A A A A G G G G G G G GAAAAGGGGAAAAAAAA AAAAGGAACCCCCCAAGGAAAAGGAAGGCCGGAAAAAAAAAA AAGGCCGGGGGGCCAAGGGGGGGGAAAAAAAAGGAAAACCGG G G G G A A G G G G C C G G G G G G G G G G A A $\mathcal{A} G G G G G A A G G G G G G A G A A$ $C C G G A A G G G G C C G G A A A A G G G G C C G G A A G A A A A G A T A G A G G G$ GAGGGAGGGGAAACCGAAAGGGAGAAGAAAAAAAAGAACAAG G G GACCAACCAAAAGGGGAGAGCCGGAACCCCGGGAGAGAAG CAAGAGAAGGAGAAAGTTAAGGAGAGGAGGAAAAGAAGGGTT G G A G A A A C A G G G A A G G A G A G G G A A A G G G G A G A A G G A G G G G G G ACAGAAAGAAGGGAGGGGGGGAAAAGGGCCCCGAGGAGAGAA G GCCGGAGGGAGAGCCAGCCGGGGGAGGAAGGGAAAGGAGAA AC G G A A A A GAGGACGGCCGACCGGAGAAAAGGAGGAAGAAGA A G G G G G G A C C A G G G G G G A G G A A G A G G G G A G G A G A A G G A C C G G A G A A G A C A G G G A A G G G A A A G G G A A A A A A A G GAGGG GAA A A A G GGAGCAAGCAGGCCGAGAGGAAGGCAAAACGGAGGAAGAGAG

A GAGCAAGGAGAGAGAGAGGGGAAAAAAAAGGAAGGAAAACC $A G G G G G G G C C A A A G G C G G A A G A A A G G A A A C G A G G A G G A A A G G$ G G C C A A $\mathcal{A} G G G G G G G G G G G A A A G G G G G G G G G G G A G G G A G A A G A$ GAGACAAAGGAGGGGGAGAAAGAGAAAACCGGAAGAGACAAA A A G GAA A G G GAAAGGAAGGGAGGAGGGGAGAGGGAAAAGGGG

 G G G GCCGGACAGAGAAGGGGAAAGGGAAAAGAGGCCGAATAC A G G A G G A G A A A A A A A A A G A A G G G G T T A A GAGGGGGGGGAACA TTCCAGGAAGAGGAGGGGGAGAGAACAAGAGAAAGGAAAAGA GAAACAAAGGCCGGAGGACCGGAAGGGGGGCCGGGGGAAAAA G GAAAAGGGGAAAAGGAAAAGGAAAAGGAAAAAAAACCACAA C C A A A A G G G G G G G G C C G G A A G G G G A A G G A A A A A A G G A A G G G G G G G A G A G G G G G G G G G A A G A G A G T A A GA CA A GAGGGGAAA GA A A A G GAACCCAGGAAGGAAAGGGGGCAACGAAAGGACAACC GA ACAAAAAGCAAACACAGAGGGGAGAAGAGAGGAAAGAGACGG
 G G G G A G G A G G G G A G G A G A G A A A A A G G G G G G G G C C A A G G G G A G AGGAAGCCAAAAGGGGAAAAAAAAGGAGACAGGAAGAAACGG C CAAAAAGGAACCCAAGACACCAATAAGGACAGAACGGAAGAG G GAGGGGGGGGGGGAGCAAGAAAAGGACGACCCCAAGGGGGG
 GAAAGACCAACCAAGGAAGGGGAAGGAAGAAAAAGAAAAAAA
 C C G A G G G GCCAAGGAAAACCGGAAAAGAAACGCGGGAAAAGG A A GAAA A A A GACAAAGGAGGGAAGAGCCGGGAAAAGAAAGAA G GAAAGAAGGGGAAGGGGAGAAGAGGAGAAAGGAAGAAAGGG G G A A A A G A C A G G G G G G A A G GAAAACAGACCAGAGA GAA G GA G AAACAAGGGGAAAGAAGGAAAAAAGGCCGGAAGAAACBGGCA AGGAGGGAAGACAACCACGAGAGGAGGGAAGGGGAAAAGGGG AACCGGCCAAGGGGAAAGAGGGAAGGAAAAGGCCGGGAAAGG G GAAGGGGAAAAGGGGAAGGGGGGGGAAGGGGTTAAAACCCC AACCGGGGAACCAAGGAAAAGGAAGGAAAACCAAGGAAGGAA G G A A G GCCAAAAAAAAAAGGGGAAAAGGGGGGGGAAAAACBG G G G G A A C C A A G GCCAAAACCGGAAGGAAAAAAGGGAAAAA G G G G G G G G G G A A A A A A G G G G G G A A A A G GCCGGCCAACCCCCCGG G G G G G G G G G G G G A A A A G G G G G G G G A A G G A G G G G A A G G G C C A A G G GAAC G GAAAA $A \operatorname{A} A A A A G G A T T A A A A A A G G G G G G G G G G G G G G$ GAAGGAGGAACCAAGGGGGAAGAGAAGGAACAAATTCAAAGG G G A A C C A A A CA A G GAAAAAGGGACGAGACCGAAGCCAAGGGG AAAGGAGGGGAAGGAAAAGGGGGGGGAAAAAAAACCAACCAA GAAGGGGGAAAGGGAGAGGGGAAAAAAAAGCCCAGBCAAAGBG G GAAGGAAGGGGGGTACGCCAAGGGGAGGGAGACCCCCCCAA A GAACAGAAAGGACAACAAAGGAGATGGGGAAGGGGAAAAAC G GCC G G GACCGGAAGGAAGAGGAGGGGAGGAAAGGGGAAA G G A GCCACAGAAAAGGAGAGGGAACCCAAGAAGAAAGGCCAA GA A G A G G C G G A G G A G A A CAACCGACCAGAGGAGCGAGGCCAAA G G G G GAGGGAGGAAAAGGAAAGGAGCAAGGGAAACAAGAAAAG G GAGAGCAAACAGGAAGAGGAAAAGGTTCCGGGGCCCCAGAA G G G G A A A A G G G G G G A C A A A A G A A A GAAA A GCGGAG GAA G G G G A A G G G GA GAGGGAGAAAAAAAAAACAAGGGAAAAAAAAAACG AA $A G A A A G G G A G G G A G A A G G A G G G A G A A A A G G G A A A G A A A G A$ A A A A A A A A A ACCGGGAAGAGACACAAGGAGCCCAGAGGAACC A GAGGGGAAACAGGAAAAAACAGGAAAAGAAGGAAGGGGGAA AACCGAGGAACCGGAACCAAAAAGGAAGAAAGAAACAAAGGG A A A C G G A A A G G G G G G G G G G G G A G G G A A A C GAC GAA A A GA G C A GAAGA $A \operatorname{AA} A G A G G G G G G G G G G A A C C G G A A C A G A G A G G T T A A A A$ GAGGAGGGCCCCGGAAAAGAAGGAGAAAAGGAGGGGAGAAAAA GAAGAGAAAAGACAGGGAGAAACCGAGAGGCCAAAAGAGAAG
$C \subset C C A C A G A G G G G G C G A G G A A A A A G G A G G G A A C C A A G G C C G A$
 G GCCGGGGGAGGGAAAAGCCAGGGAGGGAAGGAAAAAAGGAC GAAAGGAAAAAAAAAGGAGCAGGGGGGAGGAAGGCAAAGGCC $C \subset A G G A A A G G G A A A G G G A A A A A A A C C G G G G C C G G G G G G G G G A$

 GGGGAAAAGAGGGAAAAAACCGAGGAAGGGAGAAAGGGAGAA G G G G A A A C G A A A A G A GAA $A \operatorname{AGAAAAGGGAAGGGAACCGAAAAA}$ G GAAGGAGGGAAGACCAGAGGGAAAGGGGGGGGAGAAGAGAA A G G A G G G G G G G G G G G G G GA $\operatorname{G} G A A A A A A A A A G A C G G A G A A G A A A$ G GAAAAAAGGGAGAAGAGACAGGGGAGACCGGAGGGAAGGCC A A A A G G A A G G A A G G A A A $\mathcal{A} G G G A A G G G A A G A G G A A A A G G G G G G$ $G G A A G G A A C C G G G G C A A A G G G A T A A G A G G G A A G A A A G G G G G G$ AACAAAAGAAAGCCGGGGACAAAAGGCAAGAAAAAGGGCCBA GAGGAAAAAAGGAGCAAAAAGGGGGGAGAGGGAGGGCAAAGA C C G A A G G G A G G GAAAAAAAGGAACAGGAGGGAAAAAA GGGGCC G GCCGAAGAAGAAGAAGGGGAACCGGGGAAGGGGGCGAAAGA GAAGAAGGTTAGAGCCAACAACGGAGAAAAAGAGGGGGAGGG G GAAAACCGGGGAAAAGGAAACGAGGGAGGCAAAAGAAAAAG A GAAAGAGAGAGGAGAAAGGAAAAAAGGGAAAAGGGGGGGGA
 AAAAAGGGCCGGGGCCAGGGAAGGGGGAGGAGAAAAAAAAAA AA $A G A A A A G G A A G G G C A A A G G A C A G G A G G G T T G A A A C A A A A G$ A A G G G G G G G G G G G A A GAG $\mathcal{A} G G \operatorname{GAA} A A A G A C C G G G G A C G G A G A A$ AAACAAAGGAAAAAGGAAAAGGAAACGGACGGAACAGAAGGG GAGAGAGAAAGGGGAAGGAAAAAAAAGAGGGGAGGGGGGGGG A A C G G GAA $A \operatorname{GCA} A A A A T A A A A A A G G G A C C G C A G G A A C A A A A A$ G G G G G G G G A G G GAACCAAAAGAGCAAGGGAGAAGGGAAAGAC GAGGGAACGGAAGGGAGGAGAGGGGGAGAAGAGGAAGAAAAA A A A A G G A A GAAACCAGGAGAGGGAAGCAAAGGAACCAATTGG1 A G G GAAAAAAGAGGCCGGGGAAGGGGAAGAAGAAAAGAAAGA G GAGAGAGAAAAAGAGAGGAAGAGCCAGAGAAAAGGCCAGAAA A A G G G G G G GAGGGAGAGAAGAAGGAAAGGGCAACCCAAAGAA G G G A C C G GAGAGAACAAGAGAGGGGGAAAGCCAGGAGAGGCA G GAGGGGGAAAATTAAGGAGAGGGATAGCCGAGAAAAAAAAA A A G G G G GAAAGAAAGAGACCGACAGGAAAAGGGGGGGAGAGA
 G G A G A A A A G G A A G A A C G G G G G A A G G G A A C A A A G A G G G G A A G G G G A A A A G G A A A A A A A A G GAA $A \operatorname{GGGGGGAAAAAACCAAGGACAA}$ G GAACCAAAAGGAAGGGGGGCCCCAAAAGGCCABCGA
AACGAGGGAAAAGAGAGAGACGGGGGAGGCCAAGGGGGGCC $A G G G G G C C G G A A G G G G A G G G G A G G G A G G A G A G A A G G C A G A A G$ A A C A G A A G G A A G G G G G A G G G A G A G A GAGGAAAAA G GAA G GAA GAGAACGGAAAGGGGGAAGGGAAGAAAGAAGGACCCGACCBG
 A A G G A A A A A A G GAAAAGGGGAAAAGGGGAAAAGAAAAAAAAG G G GAGGAGAAAAAGGAAAGGAGAAAACCAGAGCGAAGAAGAG A GAGAAGGAAAGAGAACCGAAAGGAAAAGGCAAGAGGGAGAG
 GACCGGCCAAGGGAGGCCAAAGGGAGAAGGGGGGAAGAAGGG AAAGGGAGGCAAAAGAGGGAAAACAAGGAGGGAGGGGAAGAAG A G G G A A G G G G A A A A A A A A G G G GCCAAGACAAA G G G GAA A G A G ACAGAGAGCGGGAAGGAAAAGGGGAAAAGAAAAAAGGGGGGA G G A A A G G A C C G G G G A A A G G G G A GAGGACAAGACCCCAA GA GA G G G G A G A G TA G GA G A A A A A GAA A A A A A GAAA A A A A A A A C C C C G GAAGGGAGGAGAGACAAGAAAGGGGAACAGAAAACCCAAGB $G G A G C C G G A A A A A G G G G G A A A A A A A A G G G G A A G G G G G G A A B A G$ $A A C C G G A A G G G G A A G G G G A A A A G G G G A A G G G G G G G G G G C C A A$

A A A A A A G G G GAA $A \operatorname{ACC} C G G G A G G A G A G G A G A A A A A G G G G G G G$
 CATAAGGGGAGACCACGGGAGAAACCAACAAGAGAAAGAAAA A A G G GAGGGAGGGGGACAAAAAGGGGATATGGGGAGAGACAA GGAAAGCCAAAAGACCGGACGGGAGGGACCAAGGAAGGGGAA A A A A A A A A A G A A A A A GAAAA $A \operatorname{AGGGCCAAACAAGAAGGGGGGG}$ C C G GAA $A \operatorname{GAA} G G A A C C A A A C A A G G G A A A G G A G G G G A A A G G T T$ $G G C A A C G A A G G A G A G A G G C C A C G A G G G G A G A A A A C C G G G G G G$ G GAA A G G G G GAAGGAACAGACCAAAAAAAAGGGGGGAGAABA AAGAGAAAGAAAGAAGCCTAGAAAGGGGAACCGGGAAGAGAG C CAGGGAGAAAAATGGAGACAAGGGGCAAAAACCGGAAAGAA A A C A A A A A A A A A G GAAAAAAGAGAGGGGGGAGACAGAGATTA A A A A A GAGCC G G A A A G A GAGCATTGACCAGAAGGAGAGAGCA AAAAGGAAGGGACCGAAGACAAGGACGAAGAAGAGGGCAAGG G G GAGGGAACAAAGGGAAGGGAGAAGAAGGGGCAAGAAAGGG A A A A A ACC CGGAAAGGGGCCGGGGAAGGAGAAAAAAAAGAAA A GAGACCCGGGAAGAAGGAACCAGAAGAGAACGCAAAAAAGG A A A A A A A A A A A A A A GAGAGAAAAAGAAGAGAGGGAAAAGGGG TACCGGAAGGAATAAACGGAGACCAAGGGGAAGGAAGGAAAA A A G G A A G G A A A A G G A A G G A A C C G GAAAACCAAGGGGGGAAAA G G G GAAAAGGAAGGGGAAGGAAGGGGAAGGGGGGAAGAAAAA AAAAGGAAGGAACCGGGGGGGGAAAAAAGGAAGGAAAAGGAA G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A A G G A A C C A A C C G G G G A A A A G G G G G G A A G G G G G G A A A A G G G G G G $C \subset C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G G A A G G$ A A G G A A A A G GAAAAGGGGCCCCAAAAGGGGGGGGAACAAACA GA $\operatorname{A} A A A G A G A G G A A A A A A A A A A A G C C A G G G G G G G A A G G A A C A$ CAGAAGAGGGGACCAGACGAGGAAGGGGGGGGGAGCACACAG A A GCA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A \mathrm{~A} A \mathrm{~A} C \subset \subset A A A G G C \subset C A G G A A G A A A G G G G$ GAAGGGAAAGAAGAAGCAAAAACCAAAAACTAGGGGAAAAGA
 $C C A G A G G G A A A A G G A A C C A A G G A C G A G G A A A G G G A G G A C C A G$ A A G G G A G G A A G G G G G G G G G G A C A G G G G G C C A A A A A G A G G G G G A A A A G A A A GAGATTCAGGGGGAAGCAGATTAAAAAAAACCCA A A G A A A A A A ACCAACCTAAAGGGGGGAAGGAAAA GGAACCGG G G G G A A T T G GAAAAGGCCCCCCAAAAAAAATTAAAAG GAATT AAAAAACCAAAAAAAAGGGGAAGGGGGAAAGGAGAGCAGGGG AAAAGGGGGGAAGGAACCGGGAAGGGAGGAGAGAAACCAGCA A A G G A GCA A G G G GAAACGGAAACAAAAGAGACCAAGGGGAAAA G G A A A A G G G GCCAATTAAAAGGGGAAAAAAAACCAAAAAAAA G G A A C C A A A A A ACCCCCCCCGGCCGGAAGGAATTAAAAGGGG A A A A G G G G A A A A G G A A A A G G C C C C G G G G G G A A G G A A A A A A G G G G G GCCGGAAGGAAAAAAGGGGGGGGCCCCAAGGGGCCGGGG G G A A C C C C G G C C A A G G G G G G G G A A G G G G G G G G G G G G A A G G G G A A A A A A A A C CAACCGGGGAAGGAAGGTTAAAAAAAAGGAGAA
 G GAAAAGGAAGGAAAAGGAAGGAAAAGGAAAAAAAAAAGGGG C CAAAA $A \operatorname{A} A A \operatorname{A} A A G G G A A G G A A A A G G C C A A G G A A G G A A G G G G$ AAAAAAAGGAAGAGGACCAAAGAGGAGGAAGGGAAGGGAAAA A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{~A} A \subset A C C G G G G G G C C A G A G G G A G A A G A A A A G G G$ A A G G G GAA A GAAGGGGCAACAAACAGGGAAAGAAAGGAAGCC AA $A G A A G G G A C C A A A A T T A A G G G G G A A A G A G A A G C C G G G G A A$ A A G A G A A A G G A A C C G G G G C C G G G G G G A A A G A A A A A G G A A C A G GGAAAAAAGGAAAAAAAAAAAAGGAAGGGGAAAAAAGAAAAC AGAACCGGGGACAGGGCCAAAAGGGGACAAAGCCAGGAGGAA C CAA $\operatorname{C}$ GAAACGGAAAGAGGGGGAAGAATCCAAGGGAGACAAA G G G G T A G G A G A A A A A A C CAA $A \operatorname{AGGGAACCAACCGGGGGBAAAA}$ G G G G A A C C G GAC $\mathcal{C} G G G G A G G G G G G G A G A A A C C C C G A A G A A A A$ GAAGAAGGAGAGAAGAGGCAGGGAGGGGCCCAGGGAAGAAGG

AAGCGGGGGGAAAGCCAAAAGGGAAACCGAAACCAAAGAGGA GACCAAGAGAACACGGAACCAAGGGGAAGGGGGAAAAAAGAA AA $A G G G G G G C G G A A A A A G A A G A A A A C A G C C A G G G A G A G A A A A$ G GAA A A A A G G GAGAGAGGGGAAAAGGAAAGGGGGAAAAAAAA A A A A A A G GAA $A$ AAAAAAAAGAAAGACAGAGGGGGGAAGAAAAA G GAAGGCAGAAGAGGGAAGGCCAGAAAGAAAGAGAGACACAG AAAAAGGGAACCGGAAAGACAAAGGAACAGGGAAAGGGAAGAA G G G GAGAGAAAAAGAAAACCAAGGGACCGGGAGGCCCCGGGA ACAAAGAAAAAGACAGCCAAGGAAGGGGACAAAAGAGAAAAG $C \subset A A G G G G G G A A A A A A G G A G G G G G A A A A A A G G A A A A A A G A A A$ AAGGAAGGAAGAGGAAAGAGAAAAGGGGACGAGGAACAGGAA C C C C C CATC C C C C C C GAGGGGAAGGAAGAAGGGGGGGACAAA G G GCCAGAAGAGGGGGAGCGAAGAGAGGAGGCCAAGGAAAGCA GAAGAAGGGGCCAAAAAAAAGGAAAAAAGGAAAATTAAAGGG G GAAGAGAGGAGAAGGAACAAGAAAAGAAGAAAAAAGAGGCA $C \subset G G G G C A G A G G A A A A G G G G A G G G G A G A G A C A A G A A A A G G A G$ A GCC $C$ G G G G G G A G G G G A CAGAGGAGGCCAGCACCAACAAAAG A A A A A A G G A A A G G A C A GAGGAAGGCCGGAGGGCCAAGGAAGG GAGGAGCAGGCCAGAAGGAAAGAACAGAAGAGAAAAGAACGG GAAGCCAGGGGGGGAGGGAGGGAGAAGGATGGAAGAGGBAGA G G G A A A G G G G G A A C G GAGGGGGAAGAGGAAAACCAGAGAAG G G GACAAGGAAAAGACAAAGGGGGGGAAGTAAAGAAGAAAAAA AAAAACAGGGGAGAGAAGGAAAAGGAAGGGAAGGGAGAGGAA $A C G A G G A G A G C A G G A A C C A G A A G G A A A A G G A A G G G G G G A G A A$ $G G A G C C G A A C A A G G A A A A A A A A G A G G G G G A C A C A A A G G A G A A$ G G A G A GCGAGGGGGGGGGGGAGAGAAGACAAAGGAACAAAGA G G GAGCAGAGAGGCGGAAAAAAAGGAGGGAGGCCGGGGAAGA A TAAAACCCCGGGGGGGGAAGGACACGAGACACCAAGETTAG
 GAGGTTAACCGGGGAGAACAAGGGCCGGAGAAAAGGGGAAGG $G G C C A A A A G A G G C G G G A G G A A G G G G G A G G G A A A A A A A A A A G G$ A A G G G GAA A G A A G G G G G G G G G G A A G G G G A A A A A A G GAA A G A A G G A A A A G G A A G G G G G G G G G G G GCC G G A A C C G G A A A A A A G GAA A A A A A A G G A A A A A A G GAACCCCAAAATTCCGACCGGAGAAAA A ACC $C G G G G G A A G G G G G G A A A A G G G G G G G G C C G A A A A A G G A A$ AAAAAAAAAAGGCAGAAAAAAAGGAAGAAAAAAGGGGGAGAA GAAAACAGCCAAATGAAAGACAGCAAAAGGGGGGGAAGAAAA CAAACCGACCGAAGCCGAAAGAAAAGGAAAACAAAAAGGGGG AACCCCAAGGAAAAAAGGGGAAAAGGAAGGCAAGGAGAAGCC A A G G G GACCCAGAAAAGGGGGCAAGGGGAAAGGGGGGAAGAG G GCCGGGGAAAAGGGGGGAGGAGGAAGGAGCCAAAAG
GAGAACCAAGGGGAAGGGGCCGAGGAAGGAATAACGGGGGG CAGAAGAGAAAAAGAGAAGAAGCCGGGGGAGAGACCGGAAGG G G G G A A G A G G G GAGGATTCCGAAGGAAGGAATGAAAGAAACC $A \subset A G A A G A G G G G A A G G G G G G A A G G G G A A G G A A A A G A A A G G G G$ C CAA $A \operatorname{GGG} \operatorname{G} C \mathrm{C} G \mathrm{G} G \mathrm{G} A A \operatorname{A} A C A G G G G G A A A A C G G A A A G A C A G C C$ G GAACAGGCAAAGACCAAGGGAAAAAGGAGAACCBACAAGCC AACCACACGGAAGGCCGGGGAAGGGGAAAACCCCAAAAAAAA GGCCAAAAAAAAAAGAAGAGCCGACCGGTTAGAGGGCACAGA
 G G A A G A G A G G G A G G A G A GAATTAGAAAAGGAAGGGGGGACAA G G GAA A C C A GAAG GAGGGGGAACCCCGAAGAAAGGAAGAC G G C C A A G GACGGAACCAGAAGAAAAGGAGACCAAGAAAAAAGGG ACAGGGGGAGGGGGAGGGGAAGGAGGGAGCGGGGAAAAGAAA C C G GCA $\operatorname{CA} A \mathrm{G} G C \subset A A G G A A G A A A A A G C G G G G G G A A G A G A A A G G$ A G G G G G G GAAACAGGAGGACACGGCCCCGGGGAACCGGGGCA G GCA $\operatorname{CA} A A A G G G A A A G G G G A A G G A A G G A A A G G G G G G A A A A A G G$ A G A A C C G G A A A C G GAAGGGGAAGGCCAAGGAAAACCAAAGAC $A C A A C A A A G G A A A A G G C C A G G G G G G A G A C C G G A A G G G G A A A A$

AACCGGAAGGAAGGAAAAAACCGGGGAAGGAAAAAAGGAAGG A A A GAGACGAAGAGAAAAGAAGAGGGGAAGAAACGGAGAAAA
 A GAA A G G G G G G GAGAGAGAAAGACGAACAGGGGGGGAAAGGG
 A A A A C C T T G GAAGGCCAAAGAAGGGACCGGAAGGGGGGGGAC A G A A G G G G G G A A A A A G G GA A G G A G A A A G G GAGAGAA G G A G A A AAGGAGGAGAAGGAAGGAAACCGAACGAAAACGGGAAAAGAA GAGGGAGGAAGAGGGGCAAAGGTTAAGGGGGGGAAAGGGGCC $C C G G G G G G A A A G A G G G A G C A G G G G G G G G A G A G A G G G G G A G A A$ A G GAACGAGGAAGACGAGGAACGGCCAAAAGGGGGGGGAACC G G G G GAGGCCAGAAAAAGGAAAAGAAAGCCAAGGGGGGAATT G G G G G G A A A G G A A T A A A C A G G G A A A C GA GAGGGGAA GA G G A G
 $C C G G C A G A C C A A C C A G G A C A G G C A T T A A A G A C A A G G C C A G G G$ G GAAAAGGAGAGAGGAAGGGACGGAAGGGGAAAAAAGAAAGA $C \subset C A G G G G C C G G A A G G G A A G G G A G A A A A A A C C G G G G A A G G G G$ A G GAGGGGGGAAGGAAGGAAAAGAAACCAAAAGGAGGAAGAA $G A A G A A G G G G A A A A G G A G A A A A A G A G A G G A A A A A G A A A G G G G$ A A T T G A G G A A A A G G G A G G A A G G A A G G A G G A G G A A A A G G G G A A CAGGAAAAGGCCAAAACAAAGAAACCACAGGAGAAACCAAAA C C GAGAGAAAAGAAAGGGAAAAGGAGAGGGGGAAAGAACCAG A G GACAGAAGGGGGGGAAGGGGAAGAGGGAAAGGAAGAAAAA A A A TAGAGACCCAAAGGGACGGAGCAGGCCAGGGGGCCAAAA GAGGGGGGACGGAACCGACCGGGGGGAAAAGGAAAACACAAG GGCAACAACCGAAGAAAGAAGGCCAAAAGGAGGGGATAAAGG
 A A G G G G G G A A A A A A A GAGGGAGGGGAAAGGGGAAAACACCAA G G G G A A A A A CA GACCAGGAAAAGAAAGAAAAAAA GAAAGGGG $G G A A G G G A A G G G A A G A C C G G A A G G A G G A G G A A A G A G A G A A G G$ GACCGAAGGGAAGGGGGGGGGGGGGGAAGGCCBGAGGGGGGA GGAAGGAACACAAAAAAAGGCAGAGAGAGACAATGGGGAAAA G G G GAAGGCCAAGGAAAAGGCCGGCCAAAACCAACCCCAAAAA
 CCGAAAGAAGGGATAGCCGGAAAAAAAAAAGGAATTAAAAAA A A G GAAGGGAAGAGGCAAGGGCCCAACCGGGGAGCAAAGGAA AAAAGGCAAGGGGAAAAACCAGCCGGAAGAAAAAGGAAAAAA TTAAAGAGCAAGCCAAAAAAGGCCAAAGGAAGGGAAGGCCGG ATGAAGAAGAAGCCGGGGGGGGGGGAGGGGACGAAAGAGAAA A A A A A GA G GA GAAAAAAAAAGAGAAAGAAGGGCCGGGAGGCA GACCAGCAAGAGGGGGGGGGACAAAGTAAAGGCCAAGGAAAG A A G G A A C C G G A A A A A A A A A GAGAGGGAGAGCGAAGGCCCC GA G GAAAGACCCGAAGGGAAAAAAAAAAGGAAAGAAAGGGGAAG GAAA A A G G GAAA $A \operatorname{A}$ GAAAAAAATAGGGGAAAAGGGAAGGAGAA GAGGAAGGAACCGGCCGGAGAAGGAAGGGAAAAAAAAAGGGA G G G A A A A C G GACAAAACCCCCCGGCCACGGCCGAGGAAGAAA $G G C C A A G G G G A A A A A A G G G G A A G G G G G G A A A G A G A A C C A A G A$ G G G G GAAAGGACAAGAAAAGAAGAAACCAGAGGGGGAGAAGA A G G GAA A A A G G GAGCCAAGGAGGGGAAGGGGAAAA GAA GGGG A A G G A A A A C G A GA $A \operatorname{GGGGGGGAAGGGGCAAGAAAAGAAAGAAG}$ G G G A A G A C C G G G G G A G G G G G C C A G G G G G A A GAAAC A A T G A G G A G GACCGAGGGGGGAAGGGGAAGGAAGGAAAAGGGGGGAAAG A G G G G G G G A A A A A G A A A A G A G G A A A A G GAA $A \operatorname{AGGGA} G G G C C G G$ $A A G G G A A A G G A A G G A A G G G G A A G G G G G G A A A A G G G G G G G G G G$ G GCCGGAAAAAAGGGGAAAAAAGGAGGGGAGGAAGGAGCCGG GAGGAAGGGGGGGGAAGAAGGGAGGGAACGACAGGGAGAGBA AAAAAGGGCCAAAAGGGGAAGAGAGGGGAAATCCAAGAAGAG GAGGCAGGGGAGAGAAAGGGAGAAGGAAGGAAAAAAGGAGAA $G G C C G A G G A A A A A A A A A A G A G G C C A G A A G A A G G A C A A A A A C C$

G G G G G GAAGGAACCAAGGAAAAGGAAAAAAAACCCCAAGAAA G G G G G G G G A G A G G G G G A A G G G G A A G A A A G G G G A A A A A A G G G A
 A A A GAA A G G G GAAGGAAGGAACGGAAGCAGCAAGAAGGAAAA G G GATA $\operatorname{T}$ GAAGCGAGAGGAAAGGAGAAGAAGAAACCTTGGAG GAAAGACCAGAGGGGAGAGGAAACAGAGAGAAGGAAGCAGAA A A A A G G G A G G A A A G G G G G G G G G A A G G C C A A G G G A G A G G G G A A AAAGGAGACAAGGAGGGGGGGGGAAGGACCCCCCACCCAAGA
 T T G G G G A A G GAAAAGGGGGGGGACACAAAAAAGACCAGGGGA C CAGGGGAGGCCAAAGGAACAGGGGAAGAAAAGAAAGAACAA A A A T GACCAAGAAGAAGGGAGGAGAACAGGAAGGAAGGCGCC
 GAAGAAGGAGGAGAAAAGCCAAGACCAAAAACAAAGCGAGGA
 TACAAAAAGAGGGGGGGGGGAAGGAAAAGGAGAGGAAGAGCC AACCGGAGCAGGGGAAAAGGAGAGGGGGAGAGAAAGACAGAA G G G G A A A A A A A A G G GACACCAGGGGGGGGGAGAGACGACAAC AGAGAGAAAAGAGGAAGGGGAAAAAGAAGGCAGGAACAAAAG AACCAGGGAGAAGAAGAAGACAGAAAAAAAGGGGCCBAAAGA A G GA $\operatorname{A} A C C G A G G G A C C G G A G A C G G G G A G G C A A G G G G A C A A G G$ G G G A G G A G A G A A G G G G G GA $\operatorname{A} G A A A C C A C G G A A A A A A G G G G G G$ A G A G A A G G G G G GAA $A \operatorname{GGGGGAGAGGCCAGGAAAAAGGAGAAAG}$ GAAGAGGGGGGGAAAAAAAAGGCAAGAGCCGGGGAACCAABA GAGGAAGGCAGGAAGGACAGACAAAGGAAGCCAAACAAAAAA GAACGGCCCCGGAAGAGGAGGGCAAAGAAGGAGAGGAAAAAA G GAACCACGGAGAAAAAAAGAAGGGGAAAAGGACAAGGGGGA GAAA A G G G A A A A C A G G G G G A A A A A GAGGTTGGAAGGAAAA G G A A G G G G G G G GAA $A \operatorname{GAAAAGCAGGGGGGAGGGGAAGGAGAGAAA}$ GGGGAGAAGGAAGAACAAAAGGCCGGACGAAAAAAGCCACAG C C A A A A A G G GAAAAA A A G G GAAAAGGCCGAGGAACCCC GAAA A G G G GAA $A \operatorname{AGC} C A G G G C C G G A C G A G G A G G G G G G G G A A G A G G G$ A A A A A A GACCGGGGAGGGAAAGGACCGGAAAGGGGGGAGGGG A G A A A A A A A A G G G G A A A ATTAGAAGAAGAAAAAAAAAAAGAG A A A A A A G A G G A GAAAAA A A A A G G GAAAGGGGAGAAAAAA G G G A A A GAA $A \operatorname{GA} A A G C A G G A A A A G G A A A A G A G G A A A A A G A A A A G G G A$ GAACAACCGGGAGAGGGGGGGGAGAAAGCAGACCGACCAACC G GCCGGGAAGGACCAGAAGGAAAGAAGGAACCAAACCCAGAG A A A A C C G G G G G A A G A A A G G G GAGGGGAGAAAAAAG GAA G GAA A $G G C C A A A A A A G G A A C G A G C A C C A A A A G G A G A A A G G G A A C C B G$ A ACCAGAAAAGGAAAGGGGGAAAAAACCCCACAAGGA
AAAGGAAAGCCAAGGAGAAGGGAAAAAAGAAGGCAGGGGGG AAAGAGGGGAACGAGAGGAAGGGGGGGGCCAAGGCCAAGAAA A A G G C A G G G G A A A A GAGGGGGGAAACGGGAGA GAAAGAGA GA
 GAAAAAGGGAGGGGGGGGAAACGGAGAGGGGGGAACGAAAAB G GAGAGGGAACCGAACGGAGTAAGAGAGACGAAAGAACCCBA G G G G G G G A A A G GAAAAAGGGGAAGAGGGAAAGAAGGAAAAAG A GAGGAGGAAGAGAAAAAGGGGAAAGGGGAGAGGGAGACCAG GAAACCGGGGAAGGAAAAGGGGAGGGAGAGAAGGAAGGAACC G GAGGAAGGAAAAAAAAGCCAAACAGAAAAAGCAGGCCAAAG $A G A G A G A A G G A G G G G G G A G G G G G G A C A G A G G A G A G G G C A G A A$ A G A G G A G G G A G A A A G G A A C C G G C C G G A A A A A A GA G G G G G A C C G GAAAGAGTTGGACGGGGGGGGGAAAGGAACCAAAAGAAGGG
 AA GACAAAGGAGAAGGGGAAAAGGAAGGAAGGACCAGGAAAG GAAGAAGGAAAAAGAGAGCAAAGGCCAAGGGGAAGGAGAAAA G GCCAA G G G GAAAAGAAAAGAAAAGGGACAGGAGGGAACAAA $G G C C A G G G A A A G C C A G G G A A A A G A G A G G A C G A A G C A A A A G A A$

AAAAGGGGGAAAAAAAGGAAGGTTGGAGACCCAAGGGAGAGA CAAAAAGGGGGGGGAAGGGGAAGAAAGAAAGGCCGGAAAGAG AA G GAAAA $A \operatorname{A}$ A A A A A CAA A A CAA A GAAA G G GAA G GAA G G C G G A $C \subset C C A C C C G G G G A A A A A A G G A A A A A A G G G G A G A T A G C C G A C C$ G GCCAAAAGGGGGGAAAGGGGGAAAAGGAAAAGGGAAGAGAA G G G G G GAAAACAGGGGAGGGAAAAAAAAGGGGAGAGAGTTAA C CAACAAAAGCCGAAGAAGGGGAAAAGGGGGGCCGGACAAAG ACAGGGGGGGGGGGGGAAAAAAGGAAAAAAAAAGAAAAGGAG A A G G G A G A G G G A A CAGCAGGCCGGCCAAAGCAGAGGGGAACA GGCCGGAAGGAGGGGACAAAGGCCGGGGGAGGAGGACCGGGG AC G A A A C C G G T T G G A A G G G G G A G C A A G G G G C C C C A A C C G G G G AGCCAAAAGAAGAAAGGGAACCAAGGAAGGTTCCGEAAGGAA A A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} \subset \mathrm{C}$ CAAGGGGCCAGAGAAAAGAGGGACACA C CAAAAGACCAAGGGGAAGGCCAAAAGAAAACGGAGGGAAAA AAGGGGGGGGAAGAGGGGAACAAAAACAGGGGAGGGCAGAGA GAGAGAAGGAGAGGAGAACAAAGGCCAAAAACAAGGGGCACB A GAA A A G G A A G G G GAA $A \operatorname{AAGGAGAAGGGGAGGGAGGGAAAAAA}$ G GAA $\operatorname{G} A \mathrm{~A}$ GACCAAAAGGGATAGACAAAGAAAACCCCGAAAAA AAACAAGGCCAAGGCCCCGGAGAACCAACCACAGAGAAGGGG A A G A $\operatorname{A} G A G A G G G G G G G G G G G A G T T G A G G G G A A A G C C A G A G A A$ G GAGCCAAAAGGGGAAAGGAAAGGGGGGAAGGAAGGGAGGCA G G G GAAAAGGAGAAGGAGAAAAGAAGGGAAGGAAGAGGGGAA C C G GCCGGAAAACACCCCGGGGGGAACCAGAGGGAAAAGGGG G G A G G G G G G G G A A A G A C A G A G G A A G G A A A G G G G A G G A A G G A A A A G G A CA $A$ A A $A G G G A A G G A A G G G G G G A A C C G G A A A A G A A A G G$ A GAGACCGGAAATTGAAAGGGGAAAGAGAGAAGAAGAAGGGA A GAGAAAAAAGGGGAAGGGGGAAAAAGAGGGGAAAAAA GAAA
 G G A A ACAAAGAAGGCCGGAACCAAAAGGAAGAGAACGAGAAG GAGGAAGGGGAAGGCCAGACGGAAAAAGAGAAGGAAGGAGAA GAAACA $A \operatorname{A} A G G G G G G G G G G G G A A G G A G A G G G G G G G A A G G G G G G$ AGGGGGAAAACCAAAGGAGGAGAACAGGCAAAGACCGGAGGG
 GAAGGACCAGGGACGGGGTAAAAGACGGGGAAGGGAAGACAA GAGGACAGGGAACCAAAAGGAAGAAGGAAGAAAAAGGGAGAA GAAACCAAGAGGAAAGGAGGAAAAAAAAGGACGAAGAGAAAG G GCCGAACAACGGAAAAAAAGAGGGGAAGGGACCGGAGAGAA A A G G G GAA A GAGCCGGAGGGGGGGGACCCCGGAACCAAAAAG A A A T G G GCGGGGGGAAAAGAGGCCGGGGAAGGAACACACAAA A A A G A GAA A A A A G GAACCGGGGCCAAGGAAAGAAAATAAACC G G G G G G G GAGGAGGAAGGGGCAGGCCGAAGAGAAGGAAAAAA A A A A A ACCAA GAGAAAGGAACCAGAGGGGGAAAGAGGAACAA A G G GAGCCAGGGGAGGAAACGGGGAGAACCGAGACCGGAAAG G G G A A A A A C G G G G G C C G GA GAA $A \operatorname{GCC} C A A A C A A G G A G C G G G G G$ $G G A A G A A A A A G A A G G A G A A G A A G G A G G G A C T T A A A A G A G A A A$
 G G GACAAAAAGGGGGGGGGGGGAAAAAAAAAAGAGAABAAAG A GAAAAAAGGCCCCGAAGGAACGAAAAAAAGGGGAAAAGAAC GAAGGGAAAAAAGGGGGGGGGGAAGGAAGGAAAGACAGAAAA AGAACCCCAAAAGGAAACGGAGGAAGGGAAAGACGAAGAAGG G GCCAGGAAGGAACAGAGAGACAAAGGGCAAGAGGAAACACA A G GAA A A $A \operatorname{A} A A \operatorname{A} G A G G G A G A C C G A G G G G G G G A G G G A G A A A A A$ G A A G A G G A A A G A G G A G A G A A G G A G G G A A A A G G A A A G G A G A A A AA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A A A A C G A A A G G G G G G G G G A C A A G A G A G G G A A G A A G$ $A A C C A A C A G G G G G G A G A G A C G G A G G A G G A A G G G G A A A G G G G G$ G G A A C A A A G A G G A A G G G G G G G G C C G G A A G A A A A G G A A A A A G G G G G GAGCAAGAAAAGAAAGGAAGGAAGGAGAAGAAGGAAGAG
 $A G G G G A A A A A G G A A A A C C A G G A G G A C G G G G G G G A A A G G A A G A$

GGCCAAGGAAGGCCGGCAAAAAAAAGAAAAGGGGGAGAAAAG G GCC G G A G A A G G G G A G A GAGGAAGGAAAGGGGAA GAAAAA G G A A A A A A A G A A G A A A G GAACAGGGGCCGGAAGGGA GAAAAGGG G GAAA A A A G G GAGGAAGGCCGGAGGGAGAAAAAAAAAGAAAG GACAAGAAAAAGGAAGGACAGGCAGAAAGGACCAAAGGACAA GAAGGGCCAAGAGGGAAAAACCGGGAAGCAGGAGAGGAAAAC AAAGAAAAAGAAGGGAGGGAAGAAAGAAGAAAGGGAAAAAAG A G G G A A A G G GAGGAAGGAAAAGCCAAAAGGAAGGAAAGAAAG GAAAGGCAAAAAAAGAGGGGGGGGCCGAAGAAGAAAGAGGCC AAGGAGAGCCGGAACCGGGGACGACCGGGGAGGAAAAGGGGG GAA A A A A A G G GAGGAAAAGGAGCAAAGGGGAGAAAGAGAA GA $G G A A A A A A G G T T G A G G G A G G A A A A G G A G G G G A G G G A C C A A A G$ AC G A G GAA $A \operatorname{GGG} G C C G G G G C C A A G G G A G G A A A G G G A A G G A A A A$ G G G GAAAGACGGACGGAAACGGACGAAGCCAGGAAAGGAAGAG G G A G G G T T G G A GCC G G G G G GCCAAAACCGGAAACAGGGGGCA G GAGGAGAGGAAGGGGAAAAAAGGAAGGAGCAAGAGCCAGAA G G G G G GCC CAA C G G G GAAGGAACGAAACAACAAGGAGCAAA GA G G GAGAAGACGGAAAGAAAAGGAAAAGGGGGGAA GAAAAGAG GAGGGGGGGGAAGGCAGAGGAGGGGAAACCAGAACACCAGGB AAAA A G G A G GAGAAAGAGAACAAGGAGAGGAAAGGGGGAGAA AAAGAAGGAAAAGGAAAGGAAAGAGGGGGGAAACAAGGGGCC AA $A \operatorname{GACA} \mathrm{~A} A A G A G G A C G A G G A C A C G G G G G A G G G G A A A A A G G A$ G GAACCAGACGAGAGGGGAAGGAGAGGAAAGAACCCCAAACC
 A A A G G A A G A G G G G G A C G A A G A A A A A G GA GAAA A A G GA G A GA C

 A A A A G GCAAC GAGGAGACAGGAAGGGACGGAAAGGGGBAGCC A A G G A G G G A A G G G GAA A G A A A A A A G G GA G GAAAAA A GA G G C A A A G G A G G G G G A G A A G G G GAGAGAAGGGGGGGGGGAACAAA G G A A A A A A G G G G A A G G G G C C G G G G A A A A A A G G G G A G G G G G A G A G A GAAGGGGAGAAAGAGGGGAGGGGAAGAGGAAAAAAAAGGCC ACAAGAAGGAACGGAAAAAGCCAGGGAAAAGGAAGGGACCAA A A G A A A A A A A G GCCGAGAAAGGGAAAGAGGGACCAAGCAAAC A A A G G A A A $\mathcal{A} G G G A G A A G A G A G G A A G G A G G G G G G G A A A A A A A C$ GAAAAAACAAGGAGAGAGGAGGAACCGGAGAGAACAAAGGGG G G G GAA A GAAAAAAGAGGGAGAGAAAGGAGGCGGGGCCAGAA A G G GA GAGAAAGCCGGAGAAAAAGAAGAGAAAGAGGCAAAAA G G G G G A A A A A A A A A GACCACAAGAGAAGAACCAGAAGGAAAA CAAAGGCAGGGAAGAACAGGGAAAAAAAAAGGACAGAGGGTT G GCCAAGGGGAAAAGGAAGGGGAAGGGGGGAACCGGC
C G G G G A A G G A A A A A A G G G G G G A A A A A A A A G GAA A C A A G G G G $A A C C C C A A G G A A A A G G A A A A G G G G A A G G A A G G G G A A G G G G G G$ $A A G G G G G G G G G G A A G G A A C C G G G G G G G G A A G G A A G G G B A A T T$
 A A A A A A G G G G G G A A A A A A A A A A A A GGCCAAGGCCGGGAAAC C A A A A G G A A G G G G G G A A A A A A A A G G G G G G A A C CAAAA A G C CA A
 AAAAGGAAAAGGAAGGAAGGAAAAGGGGGGAACCGGGGAGAA A A G G A A G G G G G G A A A A $\mathcal{A} G A A G G C C G G G G G G A A A A A A G G G G G G$ G G G G G G G G A G A C G A G G G G G G A A A G G G A G C C G G A A G G G G C C G G AA $A \operatorname{GAA} A G A A A A A A A A C C A A G G G G A A A A C C G G A A G G G G A A A A$ A A G G A A G G A A A A G G G G G G C C A A C C A G G G A A A A C C G G G G C C T T AAGGAAGGGGGGAAGGAAAAAAGGGGCCGGGGAAGGAAGGCC G GAA A G G GAA G GAAAAAAAAAAAAAAAAAAAACC G GAGAGAA A A G GCCCCAAAAAAGGGGCCGGAAGGAAAAGGGGGAAAAA G G A A A A A A A A G G A A A A A A A A A A G G G G G G G G G G C C G G G G G G G G C C C C G G A G G G A A A A A A C C G G C G A A A A A A A A G G G G G A A A A G C C G A $A C G G A A A G G G G G A A A G A G G G G G C C A G A C G G G G G G A G G G A A G G$

G G G GAA A A GAGGGGAAGGCCGGCCAAAAGGCAGAGGAAACCA A G A A G G A A G G A A A G G A G G G G G G G A C C A G A A C C G G G A A GA G C C A A A A A C G G A A A ACCAGAAGGAAAAAGGGGGACAAGAAACCAB AACAGGCCGGCCACCCAAAAGGGGAGGAGAAAAAAAGAAAAA AAAAAAGGGGCCAAGGCCAAGGAAAGAAGGAGGGAAAAGAAA ACAAAAGAGAGGGAAAGGGAGGAAGGGGAGAAAAAAAAAAAA
 CAATGGAGGAGGCGAAGGGGGGCCAAGAGGAGCCCCAGAGGA A A A A A GAAACACGGGGAGAAAAGAGGGGAAAGGGAAAGGGGG GGACCCCAGAGAGGGGCAGAAACCGGAACCAAGGAAGGAGAA A G GAGGGGAGAGGAGGGGAAAAAGAAAAGGAAAAAAAAAAAA ACGAGGAAACGGGGAGCAGGGAAGACGGAGAGAGAGAACAAA A A A A A A G G A A $\mathcal{A} G G G G G G G G G A A C C G G G A A C G A A G G A G A A A A G$ G G G GAA A GAAATGGAGAGAAGAAAAGACGGCCAGAGGGAGGG AAAGAAGGCCAAGGAAAAGGTTGGAAGGGGAAAACAAAGGGG GAAACAAGAGACGAGACAGGAGCCAGAACCCAGAAAGGGGAA GAGGAAAAGGAGGGGAAACAAAGGGGAGAGGGGGAAA GAGAAA
 GAGGCCGGAGCCAGAGAAAAAAAAGGAAGGGGGGGGGGAAAA G G G A A A G G G G G A G A G G G G G A C C G G G A G A A G A A G G G G G G G G G G AAGGGGGAAGCCCAAAGGGAGAAGGAGGGGAAAGGAGGGGGA A A A A A A A A G G A A A A A ACCA GTTAGAACAAAGGGAAGGGAA GA AC GAAAAAGGGAGAAGCCAAAAAACAAGGGGGAAGACAGGAG $G G A A G A G A G G A G G G G G A A G G A A A A A G A A G G A G G G G A G G C C G G$ A A A A C C G G G G A A A A A G A GCAAAGGAAAAGGAACCAACCCCCC G GAGGGAAGGAAGACCCAAGGGAAGGAAAAGGATAAGAGCTT AAGGAAGGAAGAACAAAGAGAAGGAAGGTTAAAAAACC G GAAA A G GAAA A GCCGGAAAACCAAAAAAACAGGGAGAA GAGGGGAA GAAAGGGGAGGAAAGAAGAAGGAGAAGGGACAAAGGAGAAGA C C G GAAGGAAGGAAAAGGAGCAAAGGCAGGGAACACBAAGGG C C G GAGCCGAAACCAACCGGGGAAGGAAAACCBAAGAGAGCC G G G GAA A G G G G GCAAGAGGGGAGAGGAAGAAGGAAGAGAGGG C CAA GCAGAGAGCCTTGGAGAACACGCCAAAAGGGAGAAAAG A A A A A A A A A A A A G GAA $A \operatorname{GAAAACGGGAGGGGAAGGAAAGGGGG}$ G G G A A A G G A A A A G G A G G GACCCAAGGAAAAGGAGCAAAAGAG G G A A G A C A GAGGCAAGGGGGTACAAAGAGAGCCCAAAAAAAA AACCAAGGAAAAGACCAAAGGGAGAGACGGCCCAGAGACCBC AAAAACGGAACCGGCCAAGGAAAAAGAAGGGAGAGGGGGGGG GACAAGGGAACAGACAGGAAGGAACCCCAGGAAAGAAAGGAA C C A A A A A A A A A A C C C G G G G GAAAAGGAACAAGGAA GAAA AAA $A C G G A G G G A A A G A A G G A A G G G G G A A A A G A A A A A G G B A A A C A C$ GA $\operatorname{G} G A A A A A A G A C G G G G A A A G G G A G G G G G A A A G C A A G A G G G G G$ G GAA A GAAGAAAAGGGGGGGAAGGAAAAGGGGAGGGAAAGAA $A C G A A A A A C A A G G G G A A A A A G G G G G G A A G G A A A A G G G G G G A A$ $G G A A A A G G A A G G G G A G A G A G G G A G A A G G T T G G G G C C G G A G A A$ A A GA $A \operatorname{GGG} \operatorname{GA} A G G A A A A A G A A A G G A G G G G G G C C A A G G G G A A A A$ GAAGAAGGGAAAGGCAAAAAGAGGGGAAAAAAGAAAGGAGAA A A G GAGGGCCGAGGCCGGAAGGAAAAAAAGGGCCGGGGAAAA CACGGGGGAAAGAAAGCAAACAGAGAAAAAAAAA GGGGGGGG A GAA A G G G G G G G A A G GACAACC G GAGAAAGGGGACCGA GAAA $A C C C A A C C G G G G A A A A G A C C A G A G A A A G G G C A A G A C A A G G A A$ GACCGGAAACAAGGAAAACCAAGCAGAAAAGGAAAACCCCAC GAAGAAAACAAAGGGGAGGAGGGAACGAGAGGCCAGAAAGGG


 GAGGAGGAAACCGGCCAGGAGAGGGGAAGGGGGAAGAAAA G G $A \operatorname{A} A$ A G G G G G G A G G G G A A G G A A G G CA A A G GAA A G GAAA A GAAACAC $A G G G G A G G A G G G A A A A A G G G A A G G A A A A C C C C G G A A C A A A G G$

C C G GCCGGCCAAAACCGGGGGGAAGGAACCGGGGAAAAAAAA G GAAAACCGGAAGGAAAACCAAGAGGACGGGAGGGAAGAAAA $G G A A G A A G G G A G G A G G C A A G A A G G G G G A A G G A G G G A A A A G G B$ AAAAAGGGCCTAAAAAGGGGGGGGGGAACCAAAGGGGGGGAA G GAGGAGAGGAACCGGGGAAGGGGGGAGGGAGCCGGAGAGAA G G A A C A A A A A A A G G G G A A A A G G CAGAGGCCGGAAGAAGACAA $A G A C G G G G A G G G A C G G G A G A G G G G A G G G A A A G G A G G G G G G G G$ $G G A G A A A A A A C A G G C C A A G G G A A G G G A A G A G A A A A A A A G G G G$ G G G A A G A G A G A G A A A A $\mathcal{A} G G G G G A G G G A A A A G G G A A A C A A G G G$ A A G GAA A G G G G GAGGAGGAAGGGGGGAAGGAAAACCGAAAAA G GAACCGGAAGGCCCCGGGGGGCCAACCAAGGGGAAAAGGCC G G G GAA $A \operatorname{GAA} C C G G G G A G A G A A A A A A G A C A G G G G A A A A A A A A$ GAGAAGGAGAAGGGAAAAACGAAAAGAGAACACAGACCAA GA GAGAGGGGAAAAAAAGGGCAAAAGGGGGAAAAGAAAACGGGG AAAAACAAGGGGACATGGAAATGCAAAAAGGGAAGGCAAGCC AACAGGAGGAGAGGGAAAAGATGGGAGGAAAAGGGGAGAAAA
 G G G GAGGAGGGGAAAAACCCGGGAAAGGAAGGAGAGGGAAAA A GAGAAGGAGCCCCGGGAGGAAAAGAAAGGAAAGCCGAGGCC C C C C A CAA G GAAG GAAAGCCCCAAAAAAAAGAAA GGGECAG G AGGGGGAGAACCAGGCACAAGGGGAAAAAAGGAAAAAGGGGG A A G G G A G A G G G A A T G GCC GAAAAACAGGAACAAA GGGGCCGG AAGGAAAAGGAGAAGGCCCCAAAAAAGAGGAGAGGAAACCCC A G T T T T G G A A G A G G A G G A G G G C A G A A G G G G A A A A C C G G A A A A
 GACGGGAAAGAAAAAAAGGGAGCAAAAGGGAAACGGAAGAGA GAGGAAAAGGAAAAAAGGAGAAGGGGGGAAAAAAGGAAAAAA G G G G G A GACCAAAGAGCCCATTGAGGAAGAAAAAGGAAAAGG $A G G G A A A A A G T A G G G G A A G G A A G G A A G G A A A A G G A A G A A G A A$ A G G G G GAGGGGGCCAAGGAAAGAGAAAAAAAAAAAAGGAGAA G GAA A GAACCACAGAAGGGAAAGGGGGGGGAGGGAAAAAAAG AACCAAAGGGGACCGGGGAACACAGGGAGGGAGGAACAAAAG
 A A A A A A C C GAGAGGAGAGGAGGAGGGAAGAGGACAGGAAAGG A GAGAGAGAGAAAAAAGAAGGGAAGGGAAAACGGGAGAAGAG $G G A C G G A A G G A G A G A A A G A T A A C C A G G G A C G A A G C C A G A G A A$ GAAAAAAAAGGAGGAGAGAAGAAGGGGGAACCGGCCGAGGBA A G G GAAAAAAGGAAGAAAGGGGGCGAGAAGGGGGGAAAAAAG
 G G G G A A G G A A A A A A G G A A A A A A G GAGGGGAGGAAAACAAC GA AAACAGAAAGCCCCGGAAAAAACCAAAGAAGAGAGGG
G G GCCAAGAGGGGAGGGGGCCCAGACAGGACGGAAAAGGCC G GAAGACAGACCGGGGAAGGCCGGAAGAGGAAGGAAAAGGAC
 CAAGGGGAAGGAGAGGATAAAAAGGGACGGGGAGAAAAAGGG A A C A G G G G GAAACCGAGAGGGGAAAACCCGAAGGAAAATTGG G GAA A G G GCCGGCCAAAAAAAAGGCCCCCCGGGGAAGGAAAA G G G G G GCCGGAAGGAAGGAAAAAAGGGGGGAAAAAAAACCGG A A G GA $\operatorname{A} A A A A A A G G G G A A G G A T G G G G G G G G G G A A A A A G C C A A$ $G G C A A A C A A G A G C A G A G G A A G G G G C C G G A A G G A A A A A A A A G G$ G G A A G G G G A A G G G G G G G G G G G G A A A A A A A A C C A A A A G G G G C A GAAACCGGAAGGGGAAAAAGAAGGGGACGAGGGGGGAGAAGA A A A A G G A A GAGGGAGAAAAGCCGGGAGAAAGAAGCBACAGAA G GAAAAGGAGGAGGAGAACCGGGGAAGGACAAACAAAAAGGG A A A A G G GACC $\mathcal{A} A A G G G G G G G T T A A C C A A G G C A A A G A C C A A G G$ A A G GAGGAGGGGGGAAAAAGAGAAAGGAGGAAAAAAACAAAA G GAA A GAAA A G G G G G GCC GAGGAGGACAGGCCGGCCGGGGGG $C \subset \subset C G G A A G G G G A A A A A A G G G G A A G G G G A A A A G G A A A A C A A A$ $C \subset G G A A A A G G A A A A A A A A G G G G A A A A G G G G G G G G G G A A T T A A$
 A A A A A A G G A A A A A A G G G GAAAAAACCAAAA AAA G G GA GA G GA G GAGGAAAAAAAGGAACCGAGGCACACAAGGGGGGAAAAAAG A G GAGAAGGGCCGGGAATAAGAAAAAAAGGAACCAGCAGAAA AAAAAAAGAAGGCCGAGGGGAAAGCCAAAGGAAAGGACACAG AAAACCGGGGACCAGAAGAAGCCCCAAGCAGGCCACGGGGAG A G GAGGACAAAGAAAAGGAAAAGGAAGGAGAGAA GAAAGGCC G G G GAGACCCAACCGGAAGAAGGAGAGGCCGGAGAGACAAGAG C C G G G A A A A G G GAA $A \operatorname{GGGGCCGGAAAAACAAGGGGAGGGAGAA}$ $C \subset A A G G G A A A A C G A A C G G G A G A A A G G G G G G A A A G G G A A A G A G$ A A GAAAAAGGAGGGAAAACCGAAAAAGGGGGAAAGGAGAAAG CAAAAGAAAAGACCAAGAAACCAGAAAAAAAGGAGAAGAGAA G G A G A GCC G G G GA $\mathcal{A} G A G G G G A A T T A A G A G G G G A A G G C C A A G G$ A A A A A A G G A GAGAAACAGGGAGGGAGAAAACCAAGAAAAA GA G GAAAGGGGGAGAAGGAACAAAAGGAGAAAAGGGAGAAAATT GAGGACGGAAAGAGGGAAGAAAAGCAAGAGCCAAAAGAGGGA AAAGGGAAAAGGAAAAAGAGAAGAAAAAGGAAAGAAGAAA GA GAACACGAAAAGAGGGAAAACCGAGGCCGAGGTTAAAAGGGG $G G C C G G G G A G A A C A A A C A A G A A C A A G G A G G G G A A A A A G A A A G$ AGACAGGGCCCCGGAAAAAAAGGGCCAGAAGGAAAGAAGGAG A G G GAGAGGGCCGCGAAAGAAGCAGGGGAAGACAGGAAGAAA G GAA A G G G G G G GAAAAGGCCGGAAGGAACCCCGGAAGGAGAA AA G GAAAAAAAAGGCCGGCCAAAAGGAAAAGGGGGGGGAGAC A G A A A A A C G G G G G G G A A A C G G G A C G G A G G A A G G G A A G G A G G G $G G A A A C G G G G G G G A A G G G G G A A G G G G A A A A A A G G A A G G A G A A$ GGGGAGAAACAAAAGAAAGAGGAGAGCCAAGGGGGGGAAAAG AAAGGGCAAAAAAGGAGGCCAAGGAAAGAAGGAAGGCCAAAA G G G G GAGAACACAAAAAAGGGGAACCGGACGGAGGAGGAAAAA GAGGGAGGAAAAAAAAACGAACGGGAGAGGGGGGAGGGAGAA GAGGAAGAAGAAAGGGAGAGGGAGAAGGAATTGGGAGGAAAA G G G GAA A GAAAAGGAACAAAGGAAGAAGGGGGAAGGCCAGAA GAAAACAAAAGGGAGGAAAAAGGGGGCAGAGACAGGGGAAAA G GCCAAAGAGGGAAGGGGGAGGGGCCGGGGCCGAAAAAGGGA G G G G G G A C G G G G G G G A C A A G G G A GAAAAAAA A
$11013000-9$ A A A G G G C C G G G G G G G G A A G G G G A A A A $G A A G G G A A$ A A A G A A C C C C C C G A G G G GAGCAAGGAAGGAGGCCGAAA G GA A
 $A G C \subset A A A G G A G G A G G A G A A G G G A A A G A C G G G G A A G G A A G A A A$ C C G A A A A A A G G A G G C C G G G G C C G G G G G A G A GAA A G G G G G A A A C CAAACGGACCAGGGAAAAGGGGAAAGGGGGGACAGACAGAA $G G A A A A G G G G G G A A G G G G G G G A G A A G G G G C G G A T A G A A A G G A$ G G GAGAAGAACCAGGAAAAAAGAACCAGAGGGCCGGAAAGAA A A A A G A G A G G G G G A A G G GAA $A \operatorname{A} G A A G G C A G G A C A G G G A G G G G G$ $C C G G G G G A C C G G G G G A G A A A A G G A G G A G A C A A G C A G G A A A G G$ A A G G G A A CA $A C C A A C C A G G G A A G G G G T T G G A A G A G G T T A A G G$ A A G G G GAA A G A A A C GAGGAAGAGAAATTCCGGGGCCABAGAA A A G G A A G G A A G GAAGGAAAAGGGAAAAGAGCAGACCAGAAAA A GAAA A A A A A G GAGGGCAAAAGAGACGGGGGGAACAACAGAA AAAAACAAAAAGACGGCAGGGAGAAAGGAAAAAAGGGGGGGG A G G G A A A A GAAACCGAGAGGAGGAAGCCAGAAGGAAAAAAAG
 G G G G A G G GCCCCGCCGGGGGAGGGGAGGGGAGCAA GAAAGAA A A G A G A C A G G A A G G G G A C G A A G G A A G G G A C G G A T A GA G A A A G GGAAAACCGAGAAACCAAAAGGAAAAAAGGCCGAAAGGAGAG G G G A A A A G A A A A A CAC GAGGAAAGGACCGGGGAAGGGGCAAA CCAAGGCCAGAAAAAAGGGAAAAAGACCAGAGAAAAAAAACA
 G A G G A A A A GA G G G GC CAA GAGGAAACGAGATAACAAAACG GA $G C G A G G G A G G G G G A G G G G G G A C G G G G C A A G A A G G A A A A G G C C$

G G G GAAGGATCAAAGGGGGGAAAACCGAGACAAAACGAGAGG A A A G A A A G GAGACCGGAAAAGGGGCCGGAAAACCAAGAGAAG GAAAGGAGGAACGAAAAAGACCGGCCAGGGAAGAAAGGGGGA A GAGAGAGGAGGGGGAACGGCACCCAAGAGAAAAGGAAGGCA AACCGCCACCAAAAAGGAAGAAGGAACCAAGAACGGGGGGGG A A A A T A A G A A G A C C G A G G G G G A G G G A A A G G A A A G G G A G G G A A G G G G G A A A G GCC G A GAAAAGAAGGGGGGAAAAGGCCAAAAAG AAGGGGAAAAAAAGGGGAAAACAGAGGGCCGGGGAAAAAAAA
 AAGGAGAAAAAAGAAAGGGGAAGGAAAAGGTAGGGGAGGGGA A A A A A A A G A C A A A G G G G GCAGGGACCGGGGAA GAACGGGGGG A A C G A A C C G GCCAA A GCGCCAGGGAAAGAAGGACGGACAAAA AAACCCAGCAGAAAAAGGAAAGAAAAGGAAGGGGGGAAAAGAG A A A G G G A T A A G G A G G G G G A A A GAA $A \operatorname{AGGAGAAGAAGAACAAAA}$
 A G G GA GAA A GAAAAAAGGCAAAAAGGAAAAGGGCAGGGAAAG A A A A G G G G A A G G G GAACCAGAGAGAAGGAAGAAA GAAACCCC G GAA $A \operatorname{GA} \operatorname{A} A A C \subset A A G G A A A A G G A A G G G G G G G G G G T A G G G G C A$ AGCCCAAAAAAGAAACCAGGAGAGAGCCAAGGGGGGAGAAAA AACCAGAGGGAAGAGGAGAAAACCAAAGAGCCCCAAAAAAGA AAGAAGATCAGGAAGGCCGGGGGACCAAAAGAGGCCGGGAGA G G GA $\operatorname{G}$ GAGGGAGGAAAGGAGAAAAACGGAGAAAAGGCCAGGG G GAAGGCGGGGAGAGGAGAAAAAAGGCCGACCGAACCACAAA A A G A A A A A A G G G A A A A A A A A A A GAGGGACCAACCGAAA G GAA $G G A A A A G G G G A G A G A C A A G G A G A G A G A A G G A A A A A C G C A G G A$ G G GA $\operatorname{G} A A G A A C C A G G A A A A A A C G G G G G G A A G A A C G G G G G G A G$ A GCAGGACGAGGAAGAAGAAAAAAAAAAAAGGAAAACCGGGA A G G G G A A A CAGAACAACCAAGGAGGCACAAGGAACCAAGGGG A A G G GAGGGGCCGGCCAAGAGACCAAAAAAAGGACCGACAGG GAGGGAGGAAAAGGGAGAACGAAGGGGAGGAAAAAGGGACAG G G A A A A G A A A C C A A A G GACAGGGACCACAGCCAAGGGGAAGBG AAGAGACAAAAAGGCCGGGGACGGAAAGAAAAAAGGAAGGGG AAAGGGCCCACCCCGGCCGGAGGAAAAGAAAAAAGAAGAAAG G G G A A A G G G G G GAAA $A$ ACAGAGCAGAAGGGGAAGAGGCCABAA G GAACCGGAAAACCGGAGGGAGGGAGGGAAGGCCGGAGACAG A A G G A A G G A G A A A A A G A A A GA A A C GAGGGA GA GA G GAA G G G G
 GAGAGAGGGAAGGGAAGGTTGGAAGGAGAAAAAAAAAACCAG GAGGGGAAAAAGCAGAAAAGGGAGAACCGAAGGAAAAAAGGG GAAGCAAGGAGGAAAGAGACAAAAAGGGGGCCGGGGABCAGB AAAAGGGGTTAAAAGGAAAAGGAGAGGGAGGGAGAGAAAAAG G G G G A A G G A C A A A C GAGAGAGAAGAGCCAGCGAAAAGGAACA G GAATTGGGGGGGAGGCCGGAAGGGAGGGAAAAGAAGGACAA G G A A G A G G G G G G A A G G A A G G G G G A A G A A C C G A A G G A G G G G G G ACAAAAGGAAGGGGAAAAGACCAAAAGAAGGAAGCCGGGGGA G G G G A A A A A A A A A A A A A A A A A A C C GAAA G G GGGGAAAA G GAA
 G GAA A G G G GAAAAGGAGGTAGGGGCCAAAAAAAAGGAAAAGG A A A A A A G G G G A A G G G G G GC C G G G G G GAAAAC A A A A C CAA G G G G G G T T G G G G A A G G G G C C A A A A $\mathcal{A} G A A G G G G A A G G G G G G G G G G G G$ $G G A A A A G G G G G G A A G G A A G G A A G G C C G G A A A A A A A A G G G G T T$ G G G G G G G G A A G G G G A A A A G G G G A A A A A A C C G G G G G G G GAAA A G G G G G G A A G G G G C C G G G G A A G G A A A A G G A A C C A A C C A A G G G G G $G A A G G G G G G A A A A A A G G A A A A G G G G G G G G A A A A A A G G G G C C$ G G G GCCGGGGGGAAAAGGGGAAGGAAGGAAAAAAAAGGGGGG AAGGAACCAAAAAAAACCAACCGGAAAAAAAAGGGGAAAAAA A A A A A A G G G G A A A A G G A A A A G GAAAAAA A GAA A GAA G GAAAA A A A A G GAA $A \operatorname{G} \operatorname{A} A A A G G A G A G A A A A A A A A A G G A G A G A G G A G G A A$ G GAGCAAGAGGAGGAAACCAGGGAGGAAGGGGGGAAAAGGAT

AAAGCCGAGGATAAGGACCGTAGGGGAAGGGAGAAAAGAGAG G G G A G G G G G G A G A A G G A A G G A A A A A A A A G G GA GA G GAAAA A $G$ ATGAAAACGGAGAAATAGGAAGCCGGGGAAGGGGGCAGAAGG G G G GA GAA A A A A G GAACC G G GAAAAAAGAAAAAGAAGGAAACC AACCAGGAGAGAAGGAAAGGAAAGAAAACCAGATGGAGAGAA A A A A G A G A G G A G G G G A A A A G GA G A A A G G G A A GAA A A GAAAC C AACCGGAAGAGGAAGGAAAAGAAAAGACGGACAGAAAAAAGG AAGGGGAAAGGGAAAGTTCCAAAGTAAAAACCGGGGAAGGGG AAAAGGAAAAGGAAGGCCCCAAGGAAACGGAATAAAGGGGAG GAACAGGGGGGGGGAGGGGGAAAAGGGGGGGGGGCCGAGAAA A GAGGAGAGAGACAGGCCGAGGAAAAAGAGAGAAAAAAAGCC A ACCAAGGGGAGCCCCGGAGGAAAAACAGAGGGGAAGAAGAA A ACCCAAGAGAGGAGGTTACGAGAGGACACXAAGCAABACGG
 A A A A G G GAGGAAACAGAAAGAAAGAAAAAAAAAGGGAACCGG A G GAA A G G CAAAAAAAGGGAACAAGGGGGGGGGAGAAAAACC G GCC $C$ CA $A \operatorname{A} A A A G G G G G G C C G G C C A T A A G G G G C A G G G A G A B A$ A G GAA A G A CAGAGAGAAGAGGAGGAGAGGAAGACAACCAA GA ACAAAAGGAGGGCCGGGGGGAACCGGAAAGGGAGGGGGGGCC G G G G A A A ACCAAAACAAAAAAAGGACGGCCGAAAGGAAGACC G G TAA ACAGGAGGAAAGGGAAAAAAACAGAACAGGGGAGGGG G GCCAAAGGAAGGGGAGGAAAGGGGGCCAGAGAAGGACAAGG A A G G G G G G G G A A G A G G A A A GACAGCCGGCCAAAGAAGGGGAA A A G G G A A G G GCCGGAAAGCCGAGAAAGACCAAAACAGGBACC AC G G A A G G A A G G A A G G G G A A A C G G G G G G C A A C A G G G A G A G A G A GAAAAAGAGAGGGCAACGGGGAAAAGGAAAAAAGGCCAAAAA
 A A C C A A A A G GAACCAAGGGGCCAACCCCCCAAAAAACCGGGG A A C C A A G G G G A A A A A A G G G G A GCGAGAGCCAGAGAGGGAACC C CAGAAGAGACCAAGAGGGGGGAAAAGGAAACAAAAAAAGAA A A A A A G G A GAG GA $A \operatorname{GAA} A G G G A G A G G G A A C C G G C A A C G A G G A G$ GAAGAGGGGAAGAAGGGGCACCAGGGAAGGAAAGAGGCGAAG $A G G A C C G G A G A A G G G G A G A A G G A A G G G A G G A G G G G G G G A A G G$ A GCCAAGAAAAAAAAAAAAAGACCGGAGAAACACGGA
AATAGGAGAGAAGGAAAAAAAAACAGAGGCGGAAGAAGAGG1 A A C A A GAA A GACGGGGGGAAGGCGGGAAGGACAACCCBAGAA A GCC $C$ G G G G G G G G A A GCAA $\mathcal{A} G G C C G G A A G G A G A A A A G A A G G G$ A GAGAAAAGGCCGGGACAGAGAAGACGAGAGGCAAAACGGGG G G G GC G A G A G A GAGAAGGAGCCAGACGGCACCGGGGAGACCA G GAGGGAAAAGGAAGAGAGGGAGGAGAAAAAAAAAAGCCGGGG A A G G A A G G A A A A A G G G A G G G G A A A A $\mathcal{A} A \operatorname{AAAAGGGGGGGGGGGG}$ G GCCAAAAGGAACCATAAAATTGGGGTTAAAAGGAAAAAAGG GAGGCGAGGAAGGGAAGGAGAAAGAACAGGGGGGCCGGGGGG A A GAA A G GAGCGCCCCGGAAGGAAAAGGAAGGGGGGCCAAAAA AA $A G G G A A A C G G A G A A G G A C A G G G A A G A A G A A A A G G C A A A A G$ GAAAAAAAGAGGGGGGGAAAGGAAAAAAAGAGGAGAGGACAG $G G C C G A G G G G A A G A A A G A G G A G A A A A C A G G G G A G A G A A G A A G$ AAAAGAGGGGGGAGCCGGCCAAGGCCGGAGCCGGAGGAGAAA G GAA A G G A G G G GAGCCGAGGGGAGGGAAGGAAAGGAAAAGAA A A G GCCTTCCCCAAAAGGAAGGAGGACCAAAAGGTTAAGGGG1 GAAGGGGAGAAAGGGAGAAAAGGAGGCAGAGGAGAACAGGAA AA $A$ A $G A G G A A A G A A G G A G C C G G G G A C G A A G G A A A A A G A C C A A$ GACCCCAAGGAAGACAAAAGGGAAGGGGAGGGGGGGGGAGAA G G G G G GAGGGCCGGAGGGGGAAAACCAAGGAAAAAAGGAAGA GAA A A A GAGAGGGGCAAAAAGGAAAAAAGGAAAAGGAAAGGG A A G G A A G G A A A A A A G GAAGGCCAAAAGAGAAGAACAAAAGGG A A A G G GA $\operatorname{A} G A A A A C A G A A A G G G G A A G G A A A A A G G G G A A A C C G G$ $G G A A A C A G A G A T A A A G A A A G A A G A A G G G G G A A G B A G G G A A G A$ AGAGAAAGCGCCAACCAAAGAAAAAAAAGGAACCCCGAACAA

A A A GAGAGGAAGGGAGAGAAAGAAGAAAAAGGAAGAAGAAGG GAGGGGCCGGAGAAAGGGAGAAGGAACGGAAGACAAGAAAGG G G A A C C G G GAA G GAATAGAGCAGGAGAAAAGGAGAGAAAACC AAAACCGAAAGGGGCCAAACAAGGGAGGAAAGAGGGGGGGGG C CAA $A \operatorname{GAA} C \subset A A G A A G A A G G G G A A A A G A A A T A G G G A G G G A G A$
 G G A A G A A G G GCAAA $\mathcal{A} A A \operatorname{A} A G A A A G G G A A A G A A A A A A A A G G C C$ A A G G G G G A G G G G G G A A $\mathcal{A} G G G G G G G G G A A A G A A G A G G A G A G G G$ A A G G G G A A C C T T G G C C C C G G A A C C A A A A A A A A G G G G G A TAA GAAGGAGAAGAGGAAAAAGGGGGGGAAAGGGGCCGGGGAGGG A A A A C C G G G G A G G G G G G A A G G A A GAGACAGAAAA AACA A GA G G G C G G G G G A G G G A G A G T T A A A A A A A GAGGAAGGA GAACAAAA A A A A G GAA A G A A A A A A GAAAAACCCCGGGAAGAAAAGAGAA G CA G G A G G A T T G GAGGGCCGGAAGGACCCAAGAAGACGAAA GA AGGAAACAAAAGGAAACAGGGAGGGAAAAAAAGAAAAAGGGA AAGGGGCCAACCAAAAAACCAAGGGGACAGGGAAAAAAAGCC GAGGGGGGAAGGCCGAAAGAGGAGCACCCCAGCCCCACGGCA A A G A C A A A G G T TAA $A \operatorname{AGGGCCGGAAGGGGAAAAGAAAGGGGGG}$
 GAGGGAAGGAAAAAAGAAAGAAAACCAGGGAAAAAAA GAAAA CAGAAAAAAGAGAGAAAAACCCGGAAAGGGAAAAAAGAGGAG GAAGAAGAAAAAAAAAGAAAAAGAGGAAAAAAAAAAAAAAAA A A A G A A A A A A A A $\mathcal{A} G G G G G G G G A G G A A G G A A G A G G G G G G A A G G$ C C A G A A G G GAACCCGGAGAAAAGGAAAAAAGGGGCCAA GAAA A GAGTTGGCCGGGGAAAAAAAGGAGAAACGAGAAAAGGAAAA AAGGCCCCGGAAGGGGCCAGGAAGACGGGAAAGGGGAAAAAA AA G GAAAAGGAAAAGGAAAAAGGAAAAAAAGGCAGGGGAAAG G GACAGAGGGAGACAAGGGGGAGAAGACGAAGCCGAGAAAAA
 $A C G G G G A A G G G G A A A A G G A A G G A A A A A A G G G G A A G G A G A G A G$ A A A A G G G G A G G A G G A G G G A A G G C C G G A A A A A $\mathcal{A} A A \operatorname{A} G A A G G G G$ G G G G G G G G A A G GAA A GACGGGGCAGGGAGAAAGGGGCAAAAA G GACGGGAGGGAGAGGAAAAGGGGTTAAGGACGAGAGAAAAA G GACAAGGGGCCAAGGAAAAAGGGGGCCGGGGCCTTACAGGG A G G GAACAGACGCCAGAGAAAAGGAAGGAAAAAGAAAGAGAA G G G G C A A G A GCAG GAACCGGAAAACCAAGAAGAAGGGGAA G G G GACAA $A \operatorname{A} G A \operatorname{A} G \mathrm{G} G A C A G G G A A G G G G G G C A A A G G A A G G G G C C$ GAAGCGGGAGAAAAAAAAAGGGCCAAAAGGGAGGGGAAAGAC
 G GCCAAGGCCAAACAAGAGGAAGGGGAAAACCGGAAAAGGAA AACGCAGAAAACAGAGGGAGGGAAAAAAAAAGAACCGAGGAA A ACCAGAAGGGGAAAGAAGGAGAAGGCCAAAGAGGGAAAACC G GAGGAAAGACAAAAACCGGGGAAGGTTAACCACAAGGAAAC A A G A G G A G G G G G G A G A A A T TAA A A A GAAGGGGAGGAAA G GA A
 G G G G G G A A G G G A A G GAA A C C A A A A A A A A G G G G A A G G G G A A G G G G A A G G G G G G G G G G A A G G G A A G A G A GAGAAGGGAAA A A A G A A
 G GAATTGGAGGGAAGGAAGGAAAAGGAACCAAAAGGGGCCAA A A G GAACCAGCAGATTAAAAGAAAAAACGGAAGAGGGGAAGAG A GAA A A A G G G A A C G G G TAACAGAGACAGTACCGGGACAGGAA G GAAGAAAAAGGAACCAAAAAACCAAGAGAACGAAGGGAGGG A G G A C C G G C A A A A A G G G G A A A A A A A A A A G G G G G G G GA G C C C G G GAGCGGAGAGGGACCAAGGGGAGGGGGAACAGAGGGAAAGG GAAAGGGGGAAGAAAGAAGGAACCAAGGGGAAAAGGTTAAGG C CAACCGAAAAAAAAAGGGAAAGGGGAAAACAAAACGGGGGG G GAAA A A $A \operatorname{AGGGGAAAAGGAATAGAGGCAAGGGAACAAATXAA}$ C CAGCCGAGGAAAAAAGGAAGGAAAAGGAAAAGGAAAA G G GAA $G G C C A A A G G A G G A G G G G C C A A G A A G G C C A A G G G G C A C C G G A G$

G G GAACAGAAGGAAAAAAAGGGAAAAGGGAGGGGAAGGAGGG $A G G G G G A G G G G G A A A A A G G A A G A G C C G G A C A A G G G G C C G G A T$ A G A G G GACA A G G G ACC GACCAAAAAAAAAACCCCAAAATTTT
 AAAAAAGGGGAAGGAAAACCGGCCGGAAGGAAAAAAGGGGAA G G G G A A A A C C G GCC G GCCAAGGAGAGGAAAGGAGGGAGAGAA G G G G C C A A G G A T G G G A G A A A G G C C G G G G G G G G C A A G G A G A C A AAAACAGGGGGGGGAAGAAGGAAACCAACCGGTTGGAAGGAA G G G A A A A A G G A A C C A A A A A A G G G G A A A A A A G G G G A A G G G G A A G GAAGGGACCGGAGGAAGAAAACCCCACGAAATTGGGAGAAA
 $A G C A C A G G G A G G G G G G A A G G C C A A G G A A A A A G G G A G G A A C A A$ GAAGGGCCAAAAAAAACCGAAACCGGGGCCGGACAAGGAAAG A GCCGGGGGGGAAGACGAAGCCGGAGGGAGAGGGAAGGAAGA G GAAGGGGGACGGGCCGGAAAACCAGAAAACCAACCGGAAAA G GAAAAAAGGGGGGGGGGACAGAGCAAAGAAAGAAAAAGGGG CAAA A A A GACA $A \operatorname{AAA} A G G G G A A A G G G G A A G G C C G G G G G A A A A A$ A A G GCCAAAAGAGGACAAAGCCAGGACGAGGGGGAGAAAGAA $G G A G A G A G C C G G G G A A A A A A A A G A G A C C A A A A G G G G C C A G A G$ GAGGAAAAATGAAAAACCGGAAGAAAGAGAGGCAAAGAGAAA AAGAAAACCAGACAAAAGGAAGGAAAGGAACCCCGAAGGACA A GCCAAAGAACAAAAAAAAGCCGGAAAAAAGGCCAAGAAGCC $G G C A G A A A G G A C A G C C A A A A G G C C G G A A G G G G G A G A G G A G A A$ G G G G A A G G CAAA $A \operatorname{A} G A G G A A A A A A A A A A A C C A A G G A A G G C C G G$ G GCCGGAGGGAGAGGAAGCCGGAGAAGGAACCAAACAAACGA GAAA A A GAAAGGGGCCGGCAAACCGGAAGGGGGATTGAAAAA $C \subset C C G G C C A G G A G A G G A C A A G A G G A A A A A A G G A A A A A A G A G A$ A G A G T T A A GAAA $A \operatorname{A} G \mathrm{G} A A A G G G G A A G A G G G G A A G G C C A G A A A A$ G G G G G G G G G GCC G G A A A CAGAC G G TAGGGAGGCCA GAA G GAA CCGGAAAAAGAGGGGGAGGAAAAGCCGGAAAAGGAAAAAAAA A A A A G G A ATTCCAAAAAAAAAAGGGGAAAACCAAGAAACCGG AAGAAAAAAAGAGGGGCCCCGGTTGGAAAACAAAGGGGGCAG A G G A G A G G A GCGCC G G A A G GAGGGGGAAGAAGGAAC GA GAA T GAGAA $A$ A A A A A A G G A A G A A GAAGGGAAAGAAATGGGAA
AAAAGGGAACCGGAGGAAAAGAGGGGGGGAAAAAAAACAAA G GCCAAAACCAACCAAGGGGCAGGAGAACCCCGGGGGGGGGG G GAAAGGAAAACGGAGGAGGGGAAGGAAAATAGGAAGAAAGG GGCCAAGGAAAAAAAACCAAAGACAAAAAGCCGGAAAATTGG G G G GAA A GCAAAGAACAACAACAAGGGGGAGGAAGACCAATT A A A A A C A A GAA $A$ A A $A \operatorname{GAGGAAAAGAAAGAGGAGAGGGGAAAGG}$ $G G A A A A G G A A G A G G A A G G G G A A A A G G G G G G A A A A G A A A A G G G$ A A C C A A G G A G G G A A A A C C A GA G A C G G G A A G A G G G A G G G G G G G GGCCGGAAAAGGAAAGCAAGAAGGCCAGAGAATTAAGGAAGG A G G GCGAAGGGGAGGAAAGGCCAAGGGGAGGGAAAAGAAAAA G G G G G G G G C C A A A A $\mathcal{A} G G G G G C X A A A G G G G G A A A A G G G G A G A G$ GAGGGACCGGGGCAAAGGAGAAGAAACCGGAAAAGGAGAAGG A A G G A A C C G G G GC C A G G G C A A A G G G G A A G G G G A A A G G A A G A G G GAAAGCACCAAGGGCAGGGCAAGGGAAGGGGAGAACACCCC A A A GAGAAGGGGCCAAGGAAGAGGAGGGAAAGTTCCGGACGG

 GAGGAAAGAAGGAGAAAAAGGAGGGGGGCCAGCCTTAAGGGG G G A G A G A A C G G A G G C C G G A G G GCC G G A A C C G G G G A A G GAAA A AAGAGGCCGAGAAAAAGAAACAGGAAATCCAAGGAACGGAAA G GAGAGGAACAGAAGGGGCCAAGGGAAGAGAAGAAAAAGACC
 GACCACAAAAAGGGAAAAAGAGAACCAAAAAAGGGGCCAAGAG A A A A G G A A A A G G G G A A C C A A G G A A G G G G G G G G A A A A G G G G G G AAAAAAGGAGAAGGAACCAAGGGACCGGAAGGACAGCCAGGG

GAGGGGCCGGCCGGAAGGAAGAGGCCAAAGAGGGAAACAAGG
 A A GAA $A \operatorname{GGGGGCA} G G A A A A G G C A A A G G G A G A G G G G A G G G G G G G$ AAAAGGGGCCAACCGGAAGGGGGGAACCGAAGGGGAGGGGGC A GAGCAAGAGAACAGGAAAAAAAGGGAGAAGAACCCCCAGAA $C \subset G A A A A G A G G A A A G G G G A A G G A A G G G G G G A A A G A A C C A G B A$ $A \subset A G G G G G A A A A G G G G A A A A A G G A G A G G G G C A G A G A A G A G A G$ $A G C C G A A G G A G G G G G G A A A A G G G G G G A A G G A A A A G G A A A A A A$ A A G G G G A A GAAAGAAAACCCGAGGGGGAGGAGAGCACAAGAC AAAGAGGAGGGGAAGAAAGGAGGGAAGGAAGGAAGAGGAAGAA $C \subset G A G A A A G A G A G G A C G G A A G A A A G G A C G G A G A A A A A A A A G G$

 G GAGAGGGGGAAGGAGGGACAAAAAAAAAACAAGAAAACCGA AAGGCAGGAAGGCGGACCAAGGAAAAGGAAGGCCAAAACAAA A GAA A GACGGACAGGGGAGAGGAAAGAAAGCCGGAAGGAAAA C C G G G G G G A A G A G A A A G G T T G G GAGAAGGAAAAGACAAA AAA
 AAAGAGAGGAAAAGGAGGAGAAGGAGGGAAAAGGGGGGAAAG
 AAGGGGGGGGAGACGGAGAAGGGGAAGGCCAGATGGGAACAA AAAAGAAGGAAAGGGGAAAAGGAAGAAGAAAAAAAAAAAAAG G GAGGGAGAAAAAAAGAAAGGGGAAGGGCGAGAGCCAGCCCC GAGAAAGGGGAAAGCAAAGGAGAAAAAAAAAGGGAGAACCAG AAAAGGGGAAGGAGCCAAAAGGAAGAGAAAAAAAAAAACABG A A G G G A A G G G G G G G G G G G G G A A A GAGGGAAAGC GA G G G C C A A AACCGAAGAAGGAAAAGGGAAAAGAACCAAGGCCAAAAAAAA C C A A A A A A A A A A G G G G A A G G G G G G G G A A A A G G A A A A A A G G G G G GAACCAAAAAAGGCCGGCCAAAAAAAAGGAAAAAAAAGGAA G G G G G GCCAAGGAAAAGGAACCAAGAGAGGAGGAAAAAGGAC GAGAAAGAAAAAAGAAAGAGGGCCCCGGAAGAGGGGAGAACB A GAGACGGAAAAAAAGGGGGAAAGGGCAGGAAGGAAGGGGAA A G G GCAGGAGAGGGAAGAAAAAAAAGCAAGGAAAAGGGGGAC G GAGGGACAGCCGGAAAAAAAAGGGACCAAAAAAAGAGGGCA G G G G G GAAAACCACGGAAGGAGAGGAAAGACCTTAAGGCCAA G G G GAGACAAGGAAGAAAAGAAGGGAGGGGAAAAAGGGAAGAG GAGAGGGGGAAGGACAAGAGCAGGGGGGAGGGGGGAAGAGGG AAAAGGGGGGGAAACCGAAGGGAACCAAAAAACCGGGGAAGA A A A A A A A A A G A A A A A A G GAGAACCAAAAAAGGCAA GAA GAAA A G G G A GAA A G A A A GAA A A GAGGAAGGCAGGGGAA GAGA GA GA A G A A A A A A A A A A G A A GAAAAA $A$ A GGGGGAATGACCGACCGCAC A A A A A A A G G G G G G G A A A A A A A A G G G G GAA A A A G GCCC C GAAA A C CAAAA A G G G A A G GAAAAA A G G G A A GAGAGGGAGGAAAAA G G GAAAGATACCGGGGCCGGAAAACCAAAAGGACCCBCGACCAG G G A A A A A A A A G G G G G GCCGAACAAAGAAGGGAAAGAAA GAAA $G G A C A G A A G G G G G A G C G G G G G G A A G G C C A A A A G G G A A A A G A A$ G G G A A GAA $A \operatorname{GA} A A A A A A G A A G A G A G G A C A C A A G G A G G G A G A A$
 G G G GAAAAAGGGCCAAAAAAAAGAAAAAAAGGAAAAGGAGAA G A A A A A A A G G A A G G G G A A G G G G G G A G G A G A G A G G C C A A G G A A
 GAGGGAGGGCGGAGGGGAGACAAAGGGAAAAAGAAAAAAGGG $G \operatorname{G} A A A A G G G G G G A G G G G G A A G G A T G A G G A C A A G G G G G G G G G G$ AACCAAGAAGAAGGAAGGACAGCCAAGGGGAAGGGGAAGAAA A GAGACAAAAACGGAAAGGGCAGGAAAAGGAAACAAAGAGAG GAAAAAGGAAGGGAAAAGGGAAGGAGGGGGGGGGCCAAAAAG
 $G G A A G G A G G G A A A G G A A G G G A G G G G G G G G G A A A A G G A A G A A A$ GAAGGGAAGGGGGGGGAGAGATAAGGGAAACCAAGGCAGGGG

GAGGAGAAAGGAGGAAGACAAGGAAAAGAAAGAAGGAAACTT GAAA $A \operatorname{A} A A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A A A A G A A G A A A A A A G G G G G G G A G A G A A A A$ A A G G A GA $A$ A $A G G A A C A G A G A A G C A G G G G C C A G A A A C G G A G T T$ AAGGGGCAAACCCAGACCAAGGGGAAAAAAGGCCGGAAAAAA G GAA A GCAGGGGAAGGCCAAAAACGGAAAATTAGAAGGAGGG GGCCAAAACGGAAGCAAAGGAGGATTGACCGACCGGAAACGG A A A A G G G G A GCAG GAGAAGGAAGGACAGAGGGAAAACAAGGC AAAGAAAACAGGGAAAAGAGGGGGAAAGGAGAATGGAGAGGAA G G A A A GA GA GA GAAGGGGAAAAAAGAAAAGAGGCCCAAACAA GAGGAGCAAGGGAGAAAGAAGAAAAATTGGAACCGGGAGAGC $C \subset G A C C G G A G A A A A A A A A C A G G G A G A G C A G A G A A A A A A A A C C$ G GCCGGAAAACCGGGGGGAAAAGGAAAAAAGGGGAAAAGGGG A A G G A A GAGGAAGGGGAGGAACAGGGGAGACAGGAAAAACGG A A G GAA A G GAGGCCAGAAGAAAGGTTAAAAGGGGCCGAAGAG CAGGAGAAAAAAAAAGCCGGAAGGAAAGAAGGGGGGGAAACC $G C C A C C G G A A G G G G G G G G A A G G A G G G G G C C G A A A G A A A G A G G$ A G G G A A G G GAAA $A \operatorname{Ag} \operatorname{G} \operatorname{GA} A A A A G G A A G G A A A A A A A A C C G G G G G G$ GAGCCCAAAAAGCAGAGGAACCGGAAAAAGGGAGAGCAAGGG AAAGGAGAAAAAGAAGAGAGGGGGGAGGAACCAAGACAGGGG AC GAAA $A \operatorname{GA} A G G G A A G A A A A G G A C A A G G A G G A C A G A A A G G G G$ TTAGGAAACAGAAACCAATAACGAGAGGAGAAAACAGGGGAA C C GAA $A$ A $\operatorname{A} A A G G A A A A T T C C C C A A G G G G G G G G A A A G G G A G A A$ CAGACACACCGAACGGGGGGCCAAGGAAGGAAGGGGGAAAAA C C A C A A G A A A G G C A G A A T A G G G G G G G G G A A A A G G G A G G A G G A A A A A A A G A CC G A G A A A G GAGGGGAGAAAGGGGGGAAAAAAAA A A A A C CAA G GAC GACAAAGGAGCCAGGGACAAGGACGAGAAA ACAAGGGGAAGGCAGAAAAAAAAAAGGAGAGGGAAGAGACAA GAAACGAGGGGGAAAGAGCCGGGGGGAGAAAAATGGAAAAGG
 G G G A A A G G A GAGGGAAGAGGGGACTTGAAAGAAAGGAAAAAG GAGAAAGAAAAGAAACCAAAGAACCAAGGGGAGAAGGGGGGG CAAGAGGGAAGGGGAAGGAAAAGGACGGCCAACCAAGGGGAG G GAACCAAAAGGGGCAGAGGCCAAGAACAGCCCCGGAAGAAG GAAGAGTAACGGATACGGACAAGGGGGGAAAAGGGGA
A A A G G G G A A G A T A C C G G G G G GAGGAGGAGAAAGGGGGAAA G GAAGGAGAAGAACGGGAAGAAGAAGAAGGGGGGGAAAACCBG G G GAGGAAGGAGGACAAAGAGAAGGGAGGGACAAAAGAAGAA G GAAAAAAAAGGAAGGGGGGAGCCAAGGGAAAAGGACAAAAC AAAGAATTAAAAGAAGGGGGAAGAAAAGCCGGGGAGCAAGAA
 AATTGGAAGGAGAAGAAAAGAGGAGGGGGGAGACAAAACCGG A A G GCCGAGGGACCGGAGAACAGGGAAGCCACBAAGGGAAAA A A A A G G GAGGAAGAGGAGGGGAAGAGGGGAAGAGGGGCAGAA
 $A G G G A G G G G G G G G G G G G A A A A A G G A A G G A G A G G A G G A A A G C G$ G GAA A GAAAAGAGAGGAAGGGAGAGGAAGGGGAAGAAA GAAA A A GA $\operatorname{A} G A C G G G A A G C C A A A A G G A A A A A G G G A A G G C C A G G G G G$ C C G GAA A G GAAAAAAAGGGGGAAAGGGGAAAAGAAAGAAAGA $A C A C A A G G G G A G T T G G G A G G A G C A A G A G G A A G G G G G G G E G A C$ G G G G G GCAGGGGGGGGAAAGCCAGAAAACCAAGAAGAAAAAA GAAAAGGAGGCAAGCCGGAAAAAGGGAGGGAGAAGGGAAAAG $G G C C A C A A A A C A G G A A G G A A A A G G C C A A G G A A C C A G A A A G A G$ A GAGGGAAGGAAGGGGAAAAAGCCAGAGGGAAGGGAAAAAGG ACGGAGGGAACCAGAATTAAAAGGGGGGCCGGAAGGAAGGAG A GAGGAAACCCCAAGGAAGGAAGGGGGGAGGGGGCCAAGGGG $A C C C G G G G A A C C G G A A A G G G A C A G A G C A A A G G G G G A G A G C C C$ A GAGAGAGACAAACGGCAGAAGGGAAACAGAGGGAGGGGGGG
 GAGGGAAGCCCCAGGGGGAAGGGAGGGGGAAGCAAGAGAGAG

G G G GCAAGCCGGGGAGAGGACCGACCGGCCGAAGAGAACCGG A GAGGGAACCGGGGAGCCAGAGAGAGAAACAGGGCCGGAGBA G G G GAAA $A$ A A G G GAA $A \operatorname{A} A A A A G A A C C A G G G G G G G G G G A G G G G G G$
 G G GAGACCAGAAGAACGAAAGAGAAAAGAAGAAAGGGGAGAG ACAA $\mathrm{C} A \mathrm{~A} G \mathrm{G} G A A C C G A A A G G A G G G A A A A G A G G A G A G G G G G A G$ G GAGGGAGATAGGGCCAGAAGGGACCAAGAAGAGCAGACAAG $G G A A A G G G G G A A G A A A A A G A G G A G G G C A G G G G T A A A G G G G G G$
 G G G G GAAAAGAAGGAAAAGGAAGGAGAGGAGGAAAGAGAGAA
 G GCAAA A GAGAAGGGAACGGGGGGAAAAGGGGAAGGCCAACAC G G G G A G A A A A G A A GAGAGCCAAGGCCGAAAGAAAGGAAAA GA AAACGGAGGGGGAAAGAGAAAACAAAAAAGAGAAAGACAAAT $C \subset G G A A A A G G G G A A A A A A A A A A G G G G A A C G G A A A C C G G G G G G$ G G G GCCCCAAAAACAAAAGGGAAACCAACAGGAAAAGGTTCC A A A A A A G G A A A A GAGAACGGAGAAAACGCCCCAAGGGAGGAC GAGAGGACCAGGGGAAGGGGGGAGGGCCGCAAAAAAGGAGGG CCGGAAAAAAGGAAGGAAGAGGGGCCAAAGAGGGGGGGAGAA
 A A A A A A A ACCGAAACCAAAACCAACAAAAGGAGGGGGGAAAG G G G G G GCAACAAGAGGAAAAGAGAAACCAAGGAGAGAGAAAA C GACGGAAAAGGGAGAGAAAGGACGGGGAAAAAAAAAAAACA
 C C A A A G GAGACCCCAACCCGAAAAGAAAGAAACCAAGGGAAA AAAAAACAGGGAAAGGCCCCCAAAGGGGAGGGAGAAAAGAAA AAAAGGGGAGAGGGAAAAATGGGGGACAAAAAGAGGAAAAAC AAGGAAAAGGGGAAATCAAACAAGAAAACCAAAGCCACAAAA ACGGAAGGAAAAGGGGAAAAAACCGGGGCATAAACAGACCBG GAAAAAAGGGAAAGAGAAGGGGAGGGGGCCAGAAAAGAAGGA A GAGAGAGAGAGGAAACGGGAAGAGCAGAGACGGGACAAAAA $A C G A G G A C C C G G A G A A A C G A G G A G A A G G A G G C G G G G A A A G G G$ GAAGCAGGAGGGCCGGGGGGAAGAAGGACCAAGGGGCCGGGG
 GAAAAGGGCAAGGACACACCAAAAAAGGAGAGGAGAAACAAC C C G A A A G A G G A A A A G G G A A G G G A A A A G G G G A GAAAAC CAAA C AAAGCCAGAAGAACAGGGCCAAGGAAGGCCGGAAGAAAAAAA GAGGCCGGAACCAGGGAAAACCGGGGGGGCGGAAAACAAAAA
 G G G GCCAACCGGGAGGAAAGGAGGAGAAAAGGGGGAGAGGAC A G A A A A A A A A G A G A A GCAACAAACGGGGGATTAAGAAAGGCC G G G A A GAGCCAAGGGGCCAAAAGGGAGAACAAAAGGACAGAG GAAAAACCGGAAAAGGGGGGAAAAGGGGACAGAGAGGGACGG A A A A A A G A G G A G G G G G G G A A A A A A A A G GAA A G G GA G G G G A A A G G G G A A A G ACAAAACCAACCAACCCCGGCCAAGGAAAAAAGG
 G G A A T TA $\operatorname{T}$ A A A C A G G GAGGAACGGGGAAAGAGCCACGGAAAA A A A A A ACCGGGGGGGAAAAGAGCCGGGGGACCAAGGCCAAGG AAAAGGAAGGGGGGGGCCGGAAGGAAAAGGGGAAAAGGAGAA AACCGGGGAAAAAAAAGGAAGGAAGACACCGGGAAAGGCCBA AAGGCCAACCGGAAGGAGAGGGAAGAACGAAACAGAGAATAG
 A G G G A A T T A G A A G A A G G G A C A A C C C C G G G GAC G GAAA G T T G G G GAAGAGGGGCCAAAGAAAAGGAAGGAAAAAAAAGGAAGAAA
 A A A A G G A A GAAAAAAAAAAAAAAACCGAAGAGGAGAACAAGG GAAAGGGGAAGGGGCCAAGGGGGGAAAGAAGGAGAACCAAAA G G A G A A G G A G G A A A A A A G A A G G G G A A A A C C G GAA A G T TAA A G G GAAAAGGGGGGGGAAAGAGAAACCAACAGAAGGGGAACCGG

G G G GAGGAAACCGGGGAGAGGAGGAGACGGAAAAAGAGAAAA
 $A G C A G G G G A A G G A A A A G G A G A G G G A A A A A A G G A A G G G G C A A A$ G GAAAATTAAAGGAGGGAGGGACAAGAAAAAGGGGGTTAGAA AAGGGGGGGGAACCAGAAAGCAAAGGAAAAAAGGGGAAACAG G G G G A G G G GAAAGGAAGGGAAACGAACCAAAAGAAAAAACAC $A C G G C C A G A A A A G G G G T T A A A A A A A A A G G G C C A G G G C A G G A G$ G G GACCAAGGGGGGGGAACAGAAAGAGGAGACGAAGAACGGA
 G G G GCCGGGAGACCGAAGGGAGAAAGGACCGGGGAAGGAAAA G G G GCAAGCACGAAGAGGAAGGCCCCAAAACCCAGAGGGAGG G GCCAGGAACGGACCCGGAGGGGAAGAGCCACCAGAAGACGG A A G G G ACCCACAGGAAGAGGAAGGAGAACAGAGGGAAAGGGG A A A A A A T T G G G G G G A A A A A GAA $A \operatorname{AGAAAAGGGGCAGAAGGAGG}$ A A GAGGAAAAGGAGAGAAGGAGGGAAGAGGAAAAGGAGAAAG GAGGGAGGAACCGAAAAAGGGGGGCCGGAAGGAGAAAAAGGG G GAGAAGGGAAAAACCAGGGGAGAGAGAGGAGAGGAAAGAAA G GAA A GACAAGGAGAACAAAGGAGGGAAGGAAAGGGAGAAAA A A A A A A A A G G A A A A GAGGAGAAGGGGGGGGCAGAAAGACC G G GAAAAGCAGGCCGGGGAAAAGGTTAAGGGGGGAAGGCCAGGG A AAAAGACGGGAGACCCCGGAACCGGGGAAAAGGGGAAGAAA GAAGACGGGACAAGGGGGAAGGAGCCAAAAAAAAGAAAGAGAA A A C C A A A G G G G GAGAAAAGGGGGGGGAAAAAAGGCCAAAACC ATAGAGAAGAGAGAGGCCGGCCAAAAAGCCCAAAACAAGGCC A G A G G G A A A C G G A A G G A A G GAAA A A A A A A C CAA G G C CAAA A G A G G G GCCGGGGGGAAGGAGAGGACAGAACAAGGGGAGAGAAAG C CAA G GAAAACGAAGAGGCAAAGAAAAAAGCAAAAAAAGAAA C C G G A G G A A G G G G G A C G G A A A G G A A G CAC C G A G A G G A A G G A A AAAAGGGAGGGGAAAACCAAGAGGAAAAGAAGCAGAAAAGAA GAGGAAGAAAAAGGAGAGAAGGCCAAAACAAAAAAGAGAAGAG $C \subset G G C C G A C C G G G G G A A A A G A A G G A G A G A A A T A G G G A A A A A A$ AACCAAAACCAAAAAATACAAAAACCAAGGGGAAGGAAAAAA A A C C A A G G A A G G G G G G A G G G G GCCAC G G C C G G A A A A G A A A G A A A A C G A A C CAC CAA G G G GCCCCAAAGCAGGGACCGGG
GAAGGAGGGCCAAGAGAGAGGAGGAGGAGAGGACAAGAAAG
 AAAACCGGAAGGGGGGCCAAGGGGCCAAAAAGGGAAGGCAGG GA GAA A A A G G G GAGAAGGAGAAAAAAGGAAAAGGAAAACAAC A A A A G A A G A A A $\mathcal{A} G G G G G G G A G G G G G G A C G G A G G G C A G A A G A A$ C CA $A G G C C G G G G A A A A A A G G G G A C G G G A G G G G G G C A G E G A G G$ AA $A G G G A A G G A A A A G A A A G G G C A G A A C C A G G G A A A G A A A A C C$ A A C C A A G G C A A A G A A A G G G G A G G G A G G G G G A G G A A A GAAA C C $C C G A G A A G G C G G C C A G G G C C G G A A C A A A G A C C A A G G A A G G G G$ GAGGAA $A \operatorname{A} A \mathrm{G} A \mathrm{G} G A A \operatorname{A} G A A A A G A G G A A A G C G G A A A G G G G A A A A$
 GAACGGGGAGAACAGGGAGGGAAAGGAGCCTTAACCAAAACC

 G G G G GCGGGAGAAAAAAAAAGGAAAACAAGCCAAAAAAAAAA ACGCCCGGAGAAGGAAAGAACCGGAGGACCAAAAGAGAAGBA G GAAA A A A A A G GAAGGCCGGCAGGGGAAAGAGAGGGGAAAGA A A A G GAGGGAGGAGGGAAAGAGGGAGAAGGGAGAAGAACAAA G G T T G G G A A A G A A G A A C A A A A A A A G G G G G A GA $\mathcal{A} A \operatorname{A} G A G G A G G$ GAAGGAAAAGGGCAAGAAAAACGACAGAGGAAAAGGGGAGAG GAGGGGGGAAAGAAGGGATTAGCAGACGGGAAGAAACAGAGA A A G GAGCCGGGAAAGGAACCAAGGGGAAGGCCGGCCAAGAAA G G G G A A A $\mathcal{A} G G G A A C C A A G G G G G G G G G A A G A A A A A G G A A A G G A$ G G G G G A A G G G G G G A G G G A G A A C A G G G G G G G G G A G A G G G A G G G AAGGAAAAAAAAAAGGAAAAAAGGCCGGAAAAGGGGGGCAAA

G G G G G G A A G G G G G G G G G G G G A A G G G GAA $A \operatorname{ACC} G G A A G G G A A A$ A A G G G G G G A A G GAA A G A A A A G G G G A GAGGACAGAGACAAA G G GGAAAATTAAAGCCGGGAGAAAAGAGGGCCGAGGAAAAAAGA G GGGAACCAGGGAAAAAAAACAGAGAAAGGAAGACCAGAAAA $C C G G G C G G G G G A A G G G G G G G A C G G A A G G A A G G C C A C A A A A C C$ C C G G A G G G GAGGAAGGAAGGGAAAGAAAAGAAA GCCGGCCCC G GAACCAGAGACCCGGGGGGTAAACGAGGGCAGGGGGGACAA $G G A G A A G G G G G G G A A A A A G G A G A G G A A G A A A G A C C A G G A G A G$ GAAGCCAAGGAAGGCCGGGAAGAAACGGCAAAACGAAGAAAA $C \subset A G C C A A C C A A C C G G G A T A A A G G A C G A A A G A A A G G A G C G G G$ G G G G G G G G T T A A C C G A G GA $A \operatorname{GGGGGGA} G G G G G G G A A A A A G A T$ GAAGAGGAAAAAGGGGAGAGAAAAGGCAAAAAGGGGAAAACC GAAGAAGGAAGGGGAAAACCGGAAGGGGGGAAAGGAAAAACA A GAGGGGGGGCCGAGGGGGGAACCAGACAGAAAGAAAGGGGA AAAAGGGGAGGGAAAGAAAAAGGAAAAGAGAGAAAAGATTAA AAAAGGGGAATTGGACGGAAGAAGGGCACCGGGGGGATACGG A A A A A A A A A A A A G GAGAAGGGGAAAAGGAGAAGAAAAA GAAA A GAGGAAAAGGGCCAGAGGGAAAGAGGGGGGGAAAAAACCAA G G G G G G A A G G G GAAAAAAAGGAAGGGGAAGGGGAAAAAA G A $A$ A T
 AACCAGCCAAGGACGAAGGACCGGGGGGGGAAGGCCGGGGGG G GAAAAAGGGACCCGGAGCCAAGGGGAAGGAAGGAAGGAACC C C A A C G G A G G G A A C G G G G A G G G G G A A G G G G C A A G A A G G G G G A GAGAAGGAAGAACCGACCGGAAAGGGAAGAGGCACACAAAAC C C G G G G GAGAAAGGCGAGAAGAGAAAAAGGAAAAAAGGAACA $C \subset A A G A A G G A C C C A A G A G G G A A G A A G A G G G G G G G G G C C A A A G$ A GAGGGAAGGGGAGGGAAGGAGGGGGGGAGGGCCGGCCAACA G GAAAAAGGAAAGGAAGGAAAGAGCCGAAGAGGGCCAGAGGG A A G G A A G G G GAAGGGGACAAGAAACCAGAGCCGGAAGAAAGG AGAAAAAAAAAGGGGAACAAAAAAAAAACCAAAGCCGGACAA A A C G A A G G A A G A A A G G A CA $A$ A A A A A GAGAGGGGCCAGAAAC GA CAAAAAGGGAAAGGGGACTAGAGAGGGGGAAAGGAACAGACAA A G G GAA $\operatorname{A}$ GAAAAAACAAACAAAGAAAGGAAGGGAAAAAAACC $C \subset A A G G G G A G G G A A A C A G A A G G A A G G G G G A A C C C G G G G A G G A$ A A GA $A \operatorname{GGGGGGGGAAAAAAAGGGGAAGGAACGCCAAAGAGGGAG}$ CAAAAGGGAAGGAAGAAATTGGGGAGAAAAAAAAGAAGAAGAG G GAGGGACGAGGCCGAGAAAGAGGACACAGACAAGGAAGAGA G GAGCAAAGGAAAGGGGGGGGAGAGAACAGAAAAAAGGAGAA AAAGGACAAAAAGGAAAAGAAGCCAACGAGCGGGGACAAAAG G G A G A A A A A A A G A G TAA A G A A A G GTTAACCAACCGGCCAA G G A G G GAACCAGAAGGGAAAGGAAAAGGGGAGGGGGGAAAACTT A A G G A A G G A A G A A A G G A A G G A A A A GGGGCAGAAA GAA G GAA A G G G GCCAAAAAAGGAGAGCCGGGAGGGAAGGGGAGGGGAAGG G GAGAAAGGGCAGGAAGGAGAAAGCAGGGGAAAAAGAAAAGG G GAA A GAAAAAGAGGGGAAGAAAAGAGAGAAAGGGGCCAACC A A G G A GAC $\mathcal{A} G G G \operatorname{G} A A A A G G G G G G G G G A G A A A A A A A G G G A G A G G$ A G G A G G G G G G C C A A A A C C G GAA A G GACCGGAGAAGAGGAAAA $C C G G C C A A A A A A A A G A G G A A G G A G A G A G G G A A A A A G G G G G G G$ G G A A A A GAGAGGGGACAGGGCCAAGGCCAGCAAAAGACAAAA
 G GAGATGGGGAAAAAGAGAAGACCAAAAGGAGAAAAACGGGG G G G GAAAAAACCGGGAAGGGGAGGAGAGGGGGGAGAAGAAGA G GAGGGAAAAAACACCGGGGAACAGAGAGGGGGCAAAGGGGA G G GAGGAAGGAAAAAAAAAAGGGGGGCCAAGACAGAAAACCA $A G G G C A A A G G G G G G A G A G G G A A A A A A C C G G A G A A G G A G A A G A$ AAGGGGGACCAGAAAACCCCGGAAGGAAAAAAAAAAAAGGAG A A GAAACACAAGAAAAAGAGGAGGAGGAGAAAAAGGGGAGAA C C A A A A A A A A A A GGCC GAAAGGAAGGGGAAAGAAAAAA GAAA G GAA A G G G G GAGCAGAAGGAGAAAAGGGGATAGAAA GGGGGG

G GCCGGGAAGGGAGGGAAAAAACAAAGAGGAAAAAGAAATCC $A C A G G G C A C A C C A C A G A C G G G G G G G A A C G G A A G A G A A G A G C A$ GGGAGGAAAACCACGGAACAGGAAGAAGAAGGAGGAAAAGGG
 G G G GCCGGGGGGAAAAGGAAGGGGGGGGAGGGATACGAAAGA A A G GAA A GCCCCAGAGGGGAGGGGCCAACCAAGGAGAGAGAA G G A A G GCCGGGGGAAAAAGAGAGAGGGGAAAAAAAGGAAAAG TTGACCCAAAAAGGAAAAGGAAGGAAAGACAGGGAGAGAAAA G GAAGGGGCCAAAAGGAAGGAACCGGCCAAAAGGCCAACCGG G GAAGGGGCCGGAAAAGGGGGGGACCGGGGAGGAGGAGAAAA G GAGAA $A \operatorname{AAA} A G C C G G G G C A G G G G G G G A A A G G A A A A G G G A A A$ G GCCAGGGAAAAAAGGAAGGAGAGGGAGAGGAGAA GGGGGGG G G G A T T A A G G A A C C G G A A G G C C G G G G C C A G G G G G G G A G A G A G GAGAGGAAGGGAAAGGCCAGAAGGAAAAGACCAAGGAACCAA
 CAGGAAAAAAAACCAGAGGGAGGGCCAAAAAAA GGAGGAGGG A A G A A A A G G G A A G G G G A A A GA $\mathcal{A} G G A G A G G G G G A A A G A A G G G A$ A G G GAA A GAGAAGGAGGGAAAAAAGGGACAAAAGGAAGAAGA G GAAC $A \operatorname{A} A G G A A T C C G G A A G G G G G G G A G G A A G G A A G A G A G A A A$ G GAA A A G GAGACAAAAAAGGGGAAAGGAGCCAAAAAGGAGGG GAAGGAAGAGAAGGCAAAGACCAGAAAAGGAAGAAGGGG GAA GATAAGCCGAAAAGCAATACAGGCAAAACAAGGGGACAGGGA G G A A C C G G T T G G G G G G G A G A G A A A G A A C G G G G G A A G A A G G G A
 G G G GAGGGAAAAAAAGACAAAGGGAATAAAAGAAGAGAAGAC G GAGGACGAAAGGAGAGGGGAGGGAGAAAGGGCGGAGGGGGG G GAAAAAGGGAAAGGGACGGCCGGGGAAGGCCAACCGGGGAG A G GA $\operatorname{l}$ GAGAAAGGGAACAAACAAGAGGAGAAGAGGGAAGGGG G G G G G GAC G GAGGAAAGGAGAAGGAACCGGGGGGAGAAGAAA AAAAGGAAGACCGGGGAACCGGAGGCGGGGAAAAGGGGGAAA A A G G G G G G GAGGCCCCACGGGAGGAAGAAAAAGGAGAACCAG GACGAAAGGAGAGGAAAAGGCCAACAAGGGCAAAAAGGBGAA G G G G A A A A G G A A A A G GAGGGGGCCGACAGAAGGAAGCAAAAA GACAGGGGGAAGGGCCGGAGGAAGGGAGGGGGGGAGG
GAGAGGGGGGGGGCCGGGGAAGGGGAGAGAGAGGGAAGAGG G G G G A A G G A A A G A A GAA GATAAAAAGGGAGAGGAAAAAAGGG AAGGAAGGCCGACCCCAAAAAAGGGGAACCGGGGAGAAGAGG G G GAACGGGGAAGGAAGAAAAAGAAAGGGACCGGAACAGGAA
 A A G G G A A A A G GAA $A \operatorname{G} G \mathrm{G} A A A C A A A A A G C C G A A A G G B A G G G G G G$
 $G G G A T A G G C C A A A A G G A A G G G G G G A A A A G A A A A C A G C A A A G G$ G GGAGACCAAAAAAGAGAGAGGAAAGGCAGAGAGAGGGGAGA G GAGCCGAAAGAGGCAAAACACGGGGGGGAGAGAACAAAAAA ACAAGGGGAAAAGGAACAGGCAAGGAAGAGAGGGAAGGGGCA G G G G A A A A C A T T G A G G A G A A G G A A G G G G G G A C G G G G G G G C A G
 G G G GAAA A A G G G G G A A A GAAAGAAAAAAGGAAAGGAAACAAA $C \subset G G A A A C A A G G G G A G A G A G C C A A A A G G A A A A G G G G C C A G G G$
 G G G G A A G G G G G A A A A A A A CAAAAGGAGAAGGGGGGAAAAAAA $\mathcal{A} A$ CCGGCCAAAAAAGGGGGGGGAAGGAAAAGGGGTTAAAAAAGG G GAGGGGAAAGAACGGAAGGGAGAGAGGGGGGAACCCCAAGG AAAAGGAAAAGGAACAAGAAGGAAAACCAGGGAAAAAAGAAA G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A A A A A A A G A A G G G A G G G A A A A T T G G C C A A G G B A$ A A G G A A G G G G G A G G A A G GCCCCGGAAAGGAGGAAAAGAAAAA AAAACAGGGGCCGGAAAAGGAAAAGGCCAAGGAAAAGAACAC A A A A A A A G A G A G G G A A A G G G G A G G GAGAA GAAAAAA A A A A G G A G GAGAACCGGGGGGAAGGAGAAAAGGGGAAAAGGGGACGGGG

G G GAAGGGAAAGAAAAGGAGGAAAAGAGACAGAAGGAGGAGA AAAGGAAGAAGAGGGAGGACAAAGGGACAGAGAACCGGACAA $A G A G A A G G G G A A A A G G G G G G G G A G C C A G G G A G G A A G G G A G A A$ G GAGGAGGGGGGAGGAAAAGAAGGGGAGCAAGGGGAAAGAAA A GACGAGAAGCAGGAAAAAAGAAGCAGGGAGGGGAGAACAAA AAAAGGAAGACCATCCGGAGGGCAAAAAAAAAAAAAAAAAAA G GCCGGGGAACCAAAAGGGAAAGGGAAGGGGAAGAAGAGGGG CAGAGGAGAGCAGGCCAAAAGGCCAAAAAGGGGAGGAAGAGG A A A A GAAAAACCGGGGAAAAAAAAAAGGAAGGAACCGGAAGG $C \subset A A G A A A G G A G A A A G G G C C G G G G G G G G G G A A C C G G G G G G A A$ G GAGGGGGAGGAAAAAAAAAGGCCAGGAAGGGAGGGGAAAAC G G G G G A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{~A} A A A A A G A G A G G A G G G G A G G G G G A A A A C A$ ATACGGGAGAAAAAGGGGGGGGAAGACAGGGGGGGGGACGAA $A G A G A G C G A G A A A G G G A G A A G A A G C C A A A G A A A G G A A A G G G G$ GGTTACGAAAGAGGAAGGAACCCCAACCAAGGGGAAAAGAAA G G G GAA A G G GAGGGGAAGAAGAAGAGGGGGAAAAAAGAAAGA G G G GAACCGGAAAAGGAAAAGGGGCCAAAACCGGGGGGCCGG A A GAAAGGGGGAAAAAAGCCGGAGAAGAGGGGACCACACAAA GAAGAGAAAAACAAACAAGGAGCCGACCGGGGCAGBAAAGGG
 G G GAA A A A GAGACCAAGAGAGGGGGGCCGGGGGGGGCCAAAG GAAGGAGGAAGGGGAGAAAAGGAGGGCCAAGGAAAAGGAGAA AA $A \operatorname{GGG} \operatorname{GAAAACCAGGAAAGGGGAAGGAAAAGAGAGGGGAAAA}$ AA GAGAGAGAAATTGGAGCCAAAAGAAGGAGAGAAAGA G GAGA AAGGAGAAAAGGCCGGACGGAAAAGGGAAACACCGAAAAAAG G GAAAGAACCAGGGGGGGGGAAAGGGGAGAAAATCAAGAACA GAAGAAAAAAGGGAGAAGAGGGGGGGCCAAAACCGGAAGAAA
 A ACCAAAAAGAGAAAAGAATCCCCGAGGAAGGAAACTTGGGG A GAAGGAAAAGAAAGGAACCGAAGGAAGGGAAAAAAAAAAAA G G G A A A G G G G A A G G G G A A G G C C G G G G A A C CAA G G G GAAC C C C GACCGAAGAAGGAAGGAAGGGGAAAAGGAAAAAAGAACCCCA CAA $A C A G G A A A G G G G G C C G A A G G G G G G C G G C A G G G G G G G G G G$ AAAAGGAAAGGACCAAAACCAGGGAACCGGAAAAACAAACGA A GACAGGAAAAAGGGAAACCGGGGAGGACCGACAAATAAAAG
 G G G G G GAGTTGGGGAAGGGGAAAGAGAGAGAAGAAAGGGGCA
 G G A G G A A G G G G GAA $A \operatorname{GGGGGAAAAGAAAGAGGGGCACAAAAGAC}$ GAAGCCAAAAGAACCAGGAAGAGAAGAGGGAAGGAACAGGGG AAAAAAGGGGCCAAAAGGGACAAGAGGAAAGGGGAAAAGAAA A A GAAA A A G G G A CAGAGAGGAAAAGGACCAGAGGGGABACAA A A A A A A A A A A ACCAAAAAAAAAAGGGGGGTAAGGACCGGAG GAAAACGGAAGGAAGGAAGGAAAAGGGGAAGGAGGAGAAAAG A GAGGGGGAAAAAGATGGGGACGGAAAGGGGGAAGAGGAAAA GAAGGGGAAGACGACCGGAAGGAGGGACGAAAGGAGAAATGA A GAAA A G G A A C A G A GAAAAAGGGGAACCAAACAA GGCGGGCA
 AA $A \operatorname{GGGA} A G G C \subset A A C C G G G G A G G G G G G G G A G G A A A G A G A A G G$ AAACGGGGAAAAAAAAAAAAAAAAAAGAACAAAA GAAAGGGG AAAAGGAAGGGACAAAGAAAAGAGCCAGAACAAGAGCCAAAA
 $A G C C A A A A A A G G G G A A G G A A G G G G A A G G G G A A G G G G G G G G G G$ GAGGAAAAGGGGGGAACCGGAAAAAAGGCCGGAAGGGGGAAA $C \subset T$ TAAAA $A \operatorname{A} A G C A G A A T G G G G G G C A G G A G A A A G A C A G G G A G$ A GACCGGGAAAGCAGACCGGAAAAAAAAACGGGGGGACGGGG AAGGAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGAAAAAG $G G A C A A A A A G G G A A A A G G A A A A A A A A G G G G C A A A A G A A A A G A G$ G G G G G GAA A GAACCAGAAGAGGAGGGCCAGAAGGGAAGAAGA

TAGGAAAAGGAAAGGAGGGGGAGAAGCCACGGAAGGGACACC A A CACCAGGAAGGGGGGAGAGGGGACAAGGAAAAAACGAA GA GACCAAAAAAAAAAAACCCCGGGGCCGGAAAAAAAAGGAGAA $C \subset C A G G G G G G A G G G G G A A G A G G A A A A A G A A A G G G A A A C A G A G$
 G G G GAGGGAAGGAAGGAAAGGGGAAAGAGAACCAAGACAAGG G G G G A A A G GAG GAA $A \operatorname{GA} A A A A A A G G A A C C G G A A G G G G G A C C G G$ GGACAAGGAAAACCAGACAGGAAAAAAAGGGGAAGGCCAAGA A A G A C C A G G A G G A G G G G G G G G G G A A A A A A A A A G G G G G G C C A A AA G G GAAAGAGGAGGGAAAACAGGGGGAGGGGGGAGGGAAAG G GAAAAACCCAACCGGAAGGTAGGCCGAAATACAGGGGAAAA AACCGGGGAAGAAACCAAAAAACCGGCCAAAAGGAAAGAGAG A A A A A GAA $A$ AAAACCCCAGCCAGGGAAGGGAAGGGGGCCAGAG G GAACCAACAAGGGAAGACAAAAAGGGACCCCGGAGAGAAAA G GAAACGGGGAAGGAGAGCCGGAAGGAAAAAGAAGGGGAAAA AA $A G G G G G G G G G G G C C A A C C A A A G G A G G G A G A A G G G A G A G A A$ A G GAAACCCCGGACGGCCGGAGGGGGGAGGGGAACAGAGGAG ACGGAGAAGGAACCAGAAGGAACCCCAAGGGAAGACCCAACAA $G G A A G G A A G A G A A C G G G G G G G G A A A G A A G G A G G A G A A C A G A A$ G GAGGGAGAAGGAAAAGAAACAGGGGGAGGAAGGGBAAAAGG A GAAAGAGAGGAGAGGGGAGAGGGAGGAGGAAGGAAAAGAAA GAA A A A A A A A A A A GACAGGGAGGAAGGAGAAAGAAGAGAGGG G G G GAGGGAAGGGAGGAGAGAGAGGAAGGAGAAAAAGGAGAA A G G G G G G G G G A A C A GAAACCAGGAAGGAAGACAGGAAACCAG $G G C C A G A A G G A A G G C C A A G G G G A A G G A A C C G G G G G B A A A A G G$ C C A A A A G G A A G G G G G G G G G G G G A A G G C C G A GAA A G G G G A A A $G$ AGGGAAAAAACCACCCAGACCACCGAGGAACAAGGAAGATGG
 A A A G A GAA A GCCGGAAAAGGGGGACAGGAGGGGAAACAAAGB A GAGAAAGACAGAGGAGGGGGGCCAGGGCCAAGAGGAAAAAA CAAAGACCCCACCACAAACACCAGGAAGAAAAGAGAGGAGAA AAAGGGCCGGGGAACCAAGGAGGGAGAGAGAGAGGGCCBAAA C C GAGGAAGAACAAAAAAGGAAAGAACCAACCCAAGGAAAAG GAAGAGGAGGGAAGCCGGAACAGGGGGAAAAACAAAA
GACGGCCAGAAGGAACGAAGGGGCCAACCGGGGGGCAAAGG A A C A G GCCGGAAAACAGGGGGGGAAAAAGGAAAAAACAGGGG G GACGGAAGAGAAAGGAGAAGGAGAAGGGGAAAGCCAAGAGA A GAGGGGAAAGGCCGGAAAGAAAAGGAAGGGAAAA GAAAAGA A G G G G G G G G G G G A A C A A GAGAA A A A C GAAAAAAA A G GCCGGCC ACGGAACCGGGGTTGGGAAGCAGAAAAGGAGGGGCCAACAAA A GAGGAAGAAGGAAGGAGGAAAGGGGGAAAGAGGCCAACCAA
 GAGGGGGAAAGGGGAGAGAAAGGAGGGAAAGGAAGGGGGGGA G G A A A A G A GAG GAAAAAGGGGGCCGGAGCCAGCAGGGAAAAA
 G G A A G G G A A A C C G G G G G G G GAACCCCGAGGGGAGGGGGAA G G $G G C A A G G G A G A G G A G G C C A A A A A G A G A C G A A G G A A A A A A G A A$
 G GCCGAAAAGAGGGGAAGGGGAGAAACAGGAACAGGGGAGAA GACCGGGGGGAAGAAAAGCCAAAAACGAGGAAAGCAAGAGAG G G A A A A G A A A A A A GAACCAGAAGGAAAGACAGAACCAAAGAC $A G G A G G A C G A G A G A G G G G G A G G G G G G G A G A A G G G A A G A A C G A$
 AAAAGAAAGGAGGGCAAAAACCGGAAAAGGAAAAAAGGGGGG C C G GAA A GAAAAGGAAGGAAGGGAGGAGAAAGAGGGAAAAAA GAAGAAGGGGGCAGAGGAGAGGGGGAGGAGGGCAAGGGAAGA
 A A G G G G G G G G A G A A C G G GA G A A A TA A A A G GAGAA G G C C C C G G G GAAGGTTGACAGATTAGAAAAAAGAGCAAAAAAGGAAAAAG

A A G G A GCCGGCCGGGGGGGAGGAGAGACGGAAGGCCAAAAGG CAGGAAGGGAGAGGGGAAAAAAAAAGAGGGAAAAACAAGGTA $A C G A A A A A A A A G G G G G C C A A C C G G G G A A C G G G G A C A G A G A C A$ GAAAGAGAGAGGAGGAGGGAAGAGCGACAAGGATAACCGGAA A A GAGGGGGGAGGGGGAACCAGAAAAACAAAAAAAAGAAAGA G G GAA A ACAGAAGGAGAGAACAAAGGCCCCAGAAGGAAAAAG A A C C A C A A G G G G G G G G G G A T G A G G G G G G A T G GC C G A C A A G G A AAGAGGAACCAAGGAAAAAGAGCCAAGAAGGGAAGAAGAAGG A A A A G GA $\operatorname{A} G \mathrm{G}$ GAAAAGGAAACGAGAGGAGAACGATACAAGAAG GAGAAAGGGAGGAAGGAGGGAAGGAAAGAAGGAGCCGGAAAA G GCAGGAAGGCCAAGGGGAAAGGAAGGGGAAAGACCAAGAGAA $A G C C G A C A A G A A A A G G G A A G G A G G A A A A G G A A A A A A G A A A A G$ GACCAGGGGGAAAGAAGGCCAAGAAAAGGAAAAAAAGGAGAA G G C C A A A G GACAGAAGGGGGCAAGGAAGCCGGGGAGCAA AAA
 G G G G G A A GAGGGGAAAGGCCAAGGAAGGGAGGGACAGAAAGA AAAGAAAACCCCAAAGGGAGAGAGAAAAGAAGGAAGAGAAAA
 G G G GCCGGAAAAGGAAGGCCAAGGAAGAGGGGGGAAAGACAC G G GAGGGAAGCCGAAGAACAAACCGGGGAAAAGGGACACAAA
 G G G GAAAAAAGGACAGGGACGGGACAAGAGAAAAAGCCAGAAA G GAGGGCCGGGGAACCGAAAAGGGAAGGAGCCGAAGGGAAGB A GAA $A \operatorname{G}$ GAAGGAACCGGAAAAGGCCGGAGCAGAAGAAAGGGGG G GAAAAGGAAGAAGGAGGGAGGAAAAGAAAGGGGGAAAAAAA G GAGGACAAGCCGGAAGACAGAGGTTAGAAGAGGGGGAAGAT $C \subset A C A A G A G G A C A G A G C A G G A A A A G G A A G G C C A A A C C A G A G G$ G GAGAAAGAGAAAAAGCCGGAAAAGAAAGGAAGGAA GA GAAAA GAA $A \operatorname{AAA} A A G G G A A G G G A G G G G G A G G C C G G C C G G G G G G G G G G$ AA $A \operatorname{GGG} G \mathrm{G}$ GAAAATXCAAAGGGGGGGGGGAAGGAAAAGGAACC A A G G A G A A A G G G A A G A A A A A G G A A A G G G A A A A A G A GAA C C A C AGGAAAAAGAACGAAGCAAGGAGAAAAACGGGCCGGGGGAGG $A C C A A A A A G G A A A A A A A A G G C C A A G G A G A G C C A A A G G G A G G A$ GAAAAAAGCCGGGGGGAAGGAAAACCAAGGCCAAAGGGAGAA $G G A A A A G G G A G A G A G G A G G G A G A G C C G G G A G G A A A A A A G G G G$ A A A A G G G G G GCCGGGGGGAAGGAGAAAGCCAACAAGAABAAG A A G GAGGGGAAGGGAGAAGGCCGGAAGGGAGAGGGAGAAGAA GAA $A$ AAA $\operatorname{A} A \mathrm{~A} G \mathrm{~A} A A A A C A A G G A A C A G G A A G A A A G G G G G G G G A$ $A C G G A A G G A A G G A A A A T T G G G G A A G G A G A G G A A G A A A G A G G G$
 C CAAAAGGGGAAGGGGGGGGAGAAGAGGGGAAGGAAGAAGAG G G A A A G G G G G G A A A A TACAAAAGAAGACGGACAAAAAAAAG G
 G G G G G GCAAAAGAAGGGAAAAGGGAGAGGAAGAGBACAAAGA $A A C C A A A C G G G G A A A C A G A G G G G G A G C C A A A A G G G G G G G G G G$ A G G GCCGAGGGGAAGGAAGGCCGAAAGGAGGAGAAAAAAAAA A A A A A GCCGGGGGGCCAGGAGACAAAGGGATTAAAAAAGAAA GAGGAAGGGGAGGGGGGGAGGAAAAGACGGGGAAAACAGGAA A A A A A A G A A A G G GAAA A G G C G G T TAA G G G GAAAAAA A GAA A A GAGGAGGAGGGAGAAGAAAGGAGGAAGAGGCCAAAAGGGGCA G G G GAA $A \operatorname{GCCA} A G A A A G A A G C C A C A A A G A G G A A A G G A G G G G G$ GGCCAAAGCCGGGGAAAGGAAGGAGGAAAAAAGGAAAGACGG A G G G G G G A G A A G A A G G A A G A C C G G G G A G G GAGGGACAAAA C C ACGGAAGGGGAAGGCCAGAGGGGAGGGAAAAAAAGGCAGGCC GAAATAAAGGGGAGAGACGGAAAGAGAAAAAAGGAACAAAAA GAGAGGCCGGCAAAAACCAAGGAACCCCACAGACAGAGAAAG AAAAGGGGAAAAACGGAGAAAAGAGGAAGAAAGGCAAGAGAA G G G G G G G A A GAAAAGGAGAAAAAGGGAACACAAACACGACAA $C \subset A A G G A A A A A G G A G G G G A G A A G A G A A A A A G G C C C C G G A A A A$

GAGGGGCCAAGGAAGGGGCCAGCAGGCAAAAGAAGGAAAAGG G G A A A A G GCC G A A A A GAGGCTTGGAAAAAAAAGAGGGGGGGA A G G A G A G G G G G G T T A A $\mathcal{A} G G G G G G G A A A C G A A G A G G A G A G A A G$
 A ATTCCAACCAAGGGGGGGGGGAAGGAAGGAACAAAAAGAGG AACAGGGGAAAAAAGAAGAGAACCAAAAAAAAAAAAGGAAGG GAAACCAAAAGAAACAAAAGAAGGAACCAAGGGGAAGGAGAA CCGGCCAGCCAAGGGGAAAAAAGAGAGGGAGGGGGAAGAAAC GAAACAAGAGAAAAAGGGCCGGCCGGGGGGAAAAAAGGAAGB G G G GAA A GAAGGCCAAGGAAAAAAAAAAGGAAGGAACCAAGG AAACGAGAGGAAGGGGAAAAAAGAAAAAGGGGGGAAAAAAAA GAGGAAGGAAGGAAGGGACAAAAAAAGGCAAGCACCCCAABAA G GAAAGGGAAAGAAAGGGCCGGAGAGAAAAAAGGAGGAGGAA
 G G G GCCAGGGCAAAAGGAGAGGCCACAACCGAAAAGGGGGGG AACGAACCGGGGGGGGAAAACCGAAAAAAACCGGAAGGGGCC GA $A$ A $\operatorname{G} G A A G A G G A G C A G G A T A G G G A G A G G A A A A G A G G C G G A A$ GAGGGGAAGGAAGGAAAAAGGGGAGGAGCCGGAGAAGAGGGG
 A A A A A A G G A G A G G G G GAGCCAACAACGGGGCAA GAAAGGGCC AAACGGAAGGGCGGATAACAAAGGGGCAAGGGAGGAACCCGG G G GAGAAGCAAGCCGGGAGAGGGGAGGGAGGGCCGGACAAGA G G G G A G A A A A A GCCGGGGGAGAGGCCAAAAAAAAGGGGCCAA A ACC G GAA A G G G G G GACACCAAGGAAGGAAGGGGAAAAAAAA A A A A A A G A G G G A A A A A A A G G G G G GCCAGCCGGGGGGCAAAAA G G GAA $A \operatorname{GGG} G \operatorname{GA} A A A A G A A C C A A G G A G G G A A G G A A A A G G G G G G$ $C C G G A A A A G G A A G G G G A A G G G G G G A A A A G G G G A A G G G G T T A A$ A A G G G G A A A A G G A A A A $\mathcal{A} G G G G G C C A A A A A A A A C C A A G G G G G G$ C C A A A A G G G GAA $A \operatorname{GAA} A A G G A A C C G G A A A A G G A G G G A A A A A A$ C CAAAAGGCCGGCAGAAGAAAACCAAAAGGCCAAGGGGGGAG A A A G A A A T G G A GAACAAACCAGAAGGAAACGGAGGGACBAGA $C \subset A A A A A G A G A A A A A A G G G G A G G A C C G G A G C C A A A A A A A A G G$ G GAAAGGGGGGAGAGAAAAAAACCGAAGAAACAACCCCAGAC G G TACAGGGAGGGGGAAGGAGGAAGAGGAGGAAAGGC
 G G GAGAGGACCCAAAACAAAAGGGGGAGGAGGGGATAATAAA ACGGGGAGAAACAGGGGACCAGAGAGAACGGGAGGGAACAAA G GCAGGCCGAAGGGGGGAGGAAGGAAAAAACCGGCCAAGGGG AACCGGGGGAAAGGAAGAAGGACCGGTAGGGAGGAAGGAAAA A A A G A A A G A A G G G A A A G G G A A G G G G G G A A A A A A A G G G A G G G A AA $A G G G A G A A C C G G C A A G A A G A A G G A G G A G A G A G C C G G A A G G$ GAGGGAGAGAACCCAAGAAAGGAGCAAAAGTTGAACACAGAA G G GAAAGGGGGGAACCAAAAAAAAAATAAAGGGAGGCCAAAA AAAAGGGGGGGGAAAACCAAAAAAAAAGGAAGAGCAAACAAA $G G C C G G A A A G G A G A A G G G G G G G G G G A A G A A G C A A G G A A A A G G$ G G G G A A A A G GAAGGCCAACCGGAAAGACGAACAAGGAAAA GA A GCCGAGGAAAAGGAAAAGGGGGAAACCGGTAAAAGGAAAAA A GACAAAAGAAAGAGGACAAACGGGGAGGACAGAGAGGGGGA G G G G G GAAAAAAAGGGAAAAGGGGAAAAAGGGGA GAAAAGAG GACACCAATTAACCCGATCCGGAGAGACAAAAAAGGAAGAAG CAAGACAAGAGGAAAAGGAGGGAACCAGCAAGATCCGAAAAA G GACCAGAAACCGGGGGGGAGGGGCCGAAAGGGGCCGGAAAA G G G G A A G G A A G G A A G G G G A A C C G G A A G G A A G G C C A A A A A A G G GGCCCCAAGGAAAAGGGGAACCAAGGAAAAGGGGGAAAAAAG $A G G A A A A A G G G G G G G A A G G G A G G G G A A G G G A A G A A A G G G G G G$ ACGGGGGCAGAGAGAAAAGGAGCAAGAGAGAAGGGAAAAAAG G G A A G G G G G G A G A A G G CC G G G G GACCCCAGGAGGAAGAAAAA G G G G A C A G GAGGAGGACCAACCAGGGAAAAAAACAACAAA G G $A G G G A A G G G G C C G G G G C A T T A G A G G A G G A A A C G A G A A G A G A A$

AAGGAACCGACAGAAGCCGGGGAGAAGAAAGAGACAAGAAAC A ACCAAAAAAAAAACCGAAAGAAGGAGAGGAAGBAAGGGGGG A A G G G GAA A G GAAGAAAGGGGGGAAGGGGGAGAAAA GGGAA GA ACAGGGAAAAAGGGGACCGGAAAAAAAAAAGACCAAAAAAGG G GAGGACCGACAAGAAAAGAGAGGAAGAGAGATTAGACAGAG AC G A G G A A A A A A G G G A T T G A A G C A GAGGAACAGGGAAAA G G A G G G G G GCCAAAAGGAAAACCCCAAAAGGGGAAAGGGGGAAGA AGGAAAGAAAGAGGCAGGACGAGACAAAAGGGCAAAGAAGAG A GAA A A A GCCGGAGAGGGAAAAAAAAGAAACCGGGAAGAGAG GAGGGGGGGAAGAAAAGAGGGGAAAAAAAAAAGGGGAGAAAA AACCAAGGGGAGGAACGAGGAGGAAGGAGAGAAGGGACAGAA
 CA $A \operatorname{GG} A \mathrm{~A} A \mathrm{~A} G A A G G C C A A G G C A G G C C G G G A T A G G A G A A G G C C$ G GAGGGGGTAAACAGGAAGGAACCAAAAGGCCGGCGGGAGAA G G G G A A A A A A G G G A G G GAGGAGCAGGAGGAGGGAA GAGAGAA ACGAGGGAGAAGGAGGCCAAAAAAGGAAGGAAAA GAAGAGAG GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGBAAGAACC G G G G G G A A G G A A G G A A A A A A A G A A G G G G G G G G A A C C A G A A G G AAGGAAAAGGAAGAGGAAACAGACGGAGGGGGACGAAGACGG G G A A A A C C G G G G A A A A G GAA A G G G A A A A G G G G A A G G C C G G G G G GAAAAGGGGCCGGGGGGAAGGGGGGCCGGAACCAAGAAAAA A A A A A A C C G GAAAGGGACCCGGAACCCAACAAGGGGGGAGAA A G A A A C A A G A A A G G A A G G G G G G C C G G C C G G G G G G C C G G G A G G G G G G G G A G G G A G G A G A C C A T G G A A C G C C A A G G G G G G G A A A G G C G G G G G G A C G C A A C A A G G G A A G G G G G C C A G A A G G G G G G A A G A G GAAGGAAAGGGGGGGAAAAAGAAAGAACCGGAAAAGGAAGG GAAAAAGGAAGGAAAAAAGGAAAAAAGAGGAAAAAAGGAGAA
 G G GAAGCCCCGGAGAAGGAAAAGGCGGGGAGGAAAGGAAAGA $G G A A A A G A A G G A G A C A G G C C A C G G A C C C G G G G A G G G G G C A G A$ G G G A A A G G G G A C A G G G A A A G C C C C A A A A A A A A A C A A A A A G G A GAAGAAGGGGAGCAGAAGGGAACCAGAAGGAGGAAGGGAAAA G G GACCAGAAAAGAGAGGGGCAGAGGAAGAAGAAAAGAAAAG G G G G G G A A A C G A G G A C G G G G G A A A A A A A G GAAA A A GAA $\mathcal{A} G G G$ G G G A A G G G GAA A A GCCAAAAAAAAGGAAAAAAAAGAAAGGAA A A G G G G G G A A G G A A G G C C A A A A G G C C G G G G G G A A G G G G G A G G G GAGGAAAAGGCGAGGAGGGGGGAGGAGAAGGAGGGAAAAGA G G GAAA A A G G GAAACCAAAGGGAAAAAAGAAGAA GAAG G GAA $A C G A C C A A G G A C G G C C A G T T G G G G A G G G G G A A A A A G G G A A G G$ G G G A G G G G A GAGGGGAGAAAAACAAAAAGGAAGGGGAA GAAA A G G G A A A A A A G GAAGGGGGGACACCCAAGGAAGGAAGAAA G G A A G G A A G G G G A A A A A A A A A A A GA $A \operatorname{AGGGA} G A G G C A A C G G G G A A$ G G G G G GCCAGGGGGAGGGGAAGAAGGGAGACAAAAATAAGAC G GAGGGGAAGACAGAAAAAGTTGAAGGAGGGAAABAGAACBG A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A C \subset A A G G G G G G C A C C G G A A A A A A G A$ A G G G A A A A A G G A A A A A A A A A C CAA A A A A A A CAAAAA A A G GAA A A G G A C G A G G A G G GAGAAAAACAACAAAACGAGGGGAAAAAA A A G GAA A GAAA A $A \operatorname{A} \operatorname{A} A A A A G G C A G G G G A G G G G G G G G G A G A A A C$ C G GAA A A G GAGGAGGGAAGAGGGAGAACAAAGAGGACAAGAA GAAAAAGACAAAGACAAGAAAGGAGACAGGAAGGAAGGAGGG G G GAGGAAGAAAAGGGAAACAAAAAAAAAACCGGAAGGAAGG A GACGAAAGGGGCCAAAAGACAGGAAGGAAGAAAAGAAAAAA G G G G A G A A G G G G A A A A A G G A A G A A G G G A G A A A A G C C G G G G G G AGAAGGGGAACCGGCCGGAAAAGGGGGAAAAACGAAAGGGAA G GAAAAAAAAGGAAAAGGGGAAGGTTGGGGAGAGAGCCCAAA

 A G G A A A A A G G G G A A C A A A G G G G G G GAAAAAAAAA A A GAAAC G G G GAGAGAAGGGGCGGAGAAGAAAGGGAGAGGCAGACCAAAGG

CAGAGGGAAGAAGGAAAAAAGGAAAACCGGCCCCGGAAGGGG T T G G G G G A A A A A G G A A $\mathcal{A} G G G G G C C A A G G A A G G A A A A C C A A G G$ C C G G A G G G A A A A A A A A A GAACCCA GAGGGAAAGGGGCCAGCC AAAAGGAAAGAACAAGGAGACGGGGGAGAGGGAAAACAAGAG GACCCCAGCCGGAAAAACAACCGAGGAAGGGAAAGCCAAAAA G G G A C C A A A G C C T A A A A G G G G G A G A G G A G G A A A A G G G G A G G G GAGGAAGGGGGAAGAGAGACGAAAGGAAAGGACCGGCAGGGG GAAAGGGGGAAAGGAACCAAAAAGCCGAAACCAAAGGGGGAG G G G G G G A A A A C C C G C C A A A GAGAGGAGAGAGAAAGAGGAAAA G G G GAACCAAAAAAGGAATTGGCACACCCAGAAGATAAATGA GAGGGAAAAAAAGAGGGGAAGGAAAAGGGGAAAAGGAAAGAA CAAAAGGGGAAACCGGCCAAGAAAGGCCCCGGGGAGAAAAGG A A G G A G A GCGAAGGTTAAGGAGACAGAAGGCCCCACAAAAAG G G A A A A A G A A C GCA GAAGGGATACACCAGAGGCCCCAAAGAA GGCCAGACAGAGGAAGAACCAGCAAGGACCGGGAGAGGGACC A GTAAAAAAAAAAAAAAAGGAAGGAAAACAAGGGCAGGAAAA A GAA A G G A G GAA $A \operatorname{AGGGGGGAGGAAAGGGGAGGGAGGCAAAAA}$ AAGGAAAACCAGGAGAGGCCGGGGTTGGCCGGAGGCAGAAAA ACAACCAAAAAACAAGAGGAAAAAAAAGGAAAAAAAGGAGAA T TAA A G G G A G G A A G A A G G G G G G A A G G G A G G A A A G A A A A A G A A AGCAAGAGGAAGAGAGACGGGGGACCGGAAGGGGGAGAAGGG
 G G A TA $A \operatorname{GA} A G G A A C G G G G C C C A G A G G G G G G G G A G G G A A G A A A$
 A G G G G A G G A G A A G G A G G G G A A A G A GA G A A G C C A A G G C C G G G G A G G A G G A A G G G G G A G G A A C CAA A GAAGGCCAAACAACA GAAA A GAAAAGGTTGGAAGGAAAGAAAAGGGACGCCGAGGAATTAA A A G A G A G G G G G G G G G G C C G G G G G G A A G A G G A A G G G G G G G G A A AAAACCAAGGGGAAAACCAAGGGGGGGGAAAAAAAAGGGGAC GACCAAAAAAGGCCAAAGCACCGGGGAAAAGGAACCGGAAAA C A A A G G C C A A G G A A A A $\mathcal{A} G G G G G G G A A A A A A A A A A A A A A A A C C$ AAGGAAGGAACCGGAGGGAGAACCAGAAAAGGAAAAGCGGAA A G G GCCGGAGGGAGCGCAGAGGAAAGAGAAGGCAAAGAAAAA A A G G G GCCAAGGGAAGGGCCACAACAAAAAAAAAGGG
GAAAAAGGGCCAAGGGGACGGAAGGAACCAACCCCAAGCAG A A G G A A A A A A G GAAAACCAAGGGGAACACAGAA GAA GA GA G G A G G G A T T GAAAAGAAGGAAAAGGAAAGGGGGAAAAGGACAAAA
 A A G G G G A A A A G GA G A A A A T T G G A GACGGGAAGCCAACCACAG A ACCAAAAAAAAAACCGAGAAGGAAGGGGAGGAAAGAAAAAA $G G A A A A A A A A G A A G G G G A G G G G G A G G A A C C A A G G T T G G G G G G$ A A A A A G G A A A G GAGCCAAAGGCAGGGAAAAGAAAGGGAAGAA AAGGAAGGCCAAGGGGGGAAAAAGCCAGAAAAGGGACCCCGG G G G G A A G A C C A G G G A G G G T A A A A A A A A A C CAA G G G G G G C C G G G G G A A A G G GAAACCCCGGGGAAGGAAGGAAAAGGGGGGGGCC CAAAAAGACCCCGGGGAGAGGGAAGGGGGGGAAAAAAGGGAG C CAA A G GAGGAACCAAAAAAAGAAGGAGAAAGAGAAGGAAAA ACAGAGGAACTTGGGACCCAGAGGGCAAGGAGGAAGAGAAGA
 G G G G G G A A C C G G G G G G G G A A G A G G G G G G G A G G G A G G A G G A A G G G G G A A A A C C A A G G G G G G A G G A G G G G G G G A G A A A A G A A C C G A G GACTXCGGGGGAGAGAAGGAGAAAGAGGAAGAAAGAACCAA $G G A C A A A A G A G G G A A A C G A A G G G G G G G A G G A A A A G G G G A A G B$ AAGGGAGAGGGGAGAAAGAAAGCAAGAGGGGGGGGAAAAAGG G GAAGGCCAGAGAAGCGAAAAAGAGAGAAAAGAAGGAGAAAA T T TAA $A$ A $\operatorname{T} A A A C A A G G G G A G A G G G A A G A A A A G G G A A C C A A B A$ A GAAAAGGGGCCGGAGAAAAAACCCCCCAAAAAAAAGGAATT $A A C C T T G G G G A A C C G G G G G G G G G G G G A A A A A A G G G G A A A A G B$ G G G G A A A A G GAA $A \operatorname{GAA} A G A A G G G G G G G G A A G G G G A A A A C A A A$

G GAA A GAA $A \operatorname{AGG} \operatorname{A} A A G G A A G G A A G G A A A A G G A A G G G G G A A A A A$ G G G G A A A A A A G GAA $A \operatorname{G} \operatorname{G} T \mathrm{~T} A A A A A A A A A G G G G G G G G A A G G G G G G$ A A G G G GAA $A \operatorname{AGGGGGC} C A A G G A A G G G G A A G G A A A A G G C C G G G G$ G GCCGGGGGGGGGGGGGGGGGGAAGGAGAAACCCCCGAAGAA AGAACCCACAAAGGAGCCAAAAGACCCAGAGGGGGGAAGAAG G G G G A A G G G G A A G G G G C C G A G G A A G A GAG GAA A G G G A A A A T T GAAA $A \operatorname{GAAA} G A A A A A A A A G G A A A G A G A A G G A G A A T T C A G A G G$ G GAGAAAAGAGAACCCGGAAAGAAAAAACCCCAACCAGAAAA G GAA $A \operatorname{G} A A A A A G A A G G A A A G C C A A C C G A G G A A A A A A G G G G G G$ G G G G G GCCAAGGAACCGGAAGGGAGAGAACAAA GACGGGGGG A A GAAC A A A A A C G G G G G G G G G G A G A G G A A G G G G G A A A A A A A A A A A A G G A A A A C C A A G G G G G A A C G G A A G G T T G G A A G A GA G G C C AAAGCAGAAAAGGAACAAGAAGAGGAGGAAGGGAGGCAAAAA A G G G G GAAAGCCAAGGAAGAGGAAGAAGGAGAAGGAAAAA GA G GAAGGAAGGAAAGGGAAGAAAGATAAAAAAAAGAAGGGGGC G G G G G GAACCGACAGAAAGAGGGAAAAAAAAGGGGGGACAAA G GCCGGGGAAGGAGAGAAGGAGAGAGGGCAAGAAAACCGGGG A ATTAAAAAAGAAAGGGAGGAAAAAAGGAAGGAAAAGAAAAA C CAGGGAAACGGGGAAAGACAAAGAGAAAGGGGAGGAGAGAA G G G A A A A A A A A A G A A G A A A GAGAGGAGGCCACGGGGAACCAG AAAAAAGAGGGAGGGGCAACGGAAAAGGCCGGAAAAAAGGAG G GAAAGAAAAAGCCACGGGGGACCAAACCAACCCGGAACCTT A GAGGAGGAAAAGGAAGGGGAATTAAAAGGAGGGA GAAAGGG $A G A C A G G A G G A A A A G G G G A G A A G G A C G G G G G G A A G G A A A A G A$ AAAAGGAGAAGGAAAAAACCGGCCAAGAAAGGAGGAAATTAA ACGGGAGACCGGGGGGGGCAGGGGAAAGCCAAAGAAGAAAAA
 G G A A G G G GCC G G G G G G A G G G G G A C C C G A G G A A G A A G G G G A A G
 CCAAGGGAAAAGAAAAGGAAGGAACCGGAAGAGAAAAAAAAA G G G GAA $A$ AAAAACAAACAGAAGAAGGAAAAGAAGGGAGAGGGG G GAGGAACGGAAAGAAAAGGAAAGGGAAAAGGAGAGGGCAAA G G G GAAAAAGGGGGAAAAGGAAGAAAGGAGAAGGGACAACAA C C A G A G G A G G A G A G A G GA $\operatorname{A} A A A A G G G G G G A A A A A A G G G G A G G G$ A G G G A A G G A A G G C C A G A A A A G GA $A \operatorname{AGGGGCC} G G A G A G G G A G A A$ A GCC G G G G G G G G A A A A A T GAAACCAAAGGAAGGAAGGGAC G G A GAAAGGGGGACAAAGGAGGAGGGAAAGAAGGAAAACAAGAC ACAGGGACAGGAGGAGGAAAGAAGACAGAAAAAAAACGGGGG G GAGCCGAGAACCAAGAGGGCCGACCGAAGAGGGAGAGAGAA
 $A G C C A G A A G G A G A A A A G G A T G G A G G A C C A A G G A G A G A G A G A C$ C G G GAGACCCAAACAACCAAGGGGGACAGGGGGGAGGGAAAC TAAAAACCCCAGAGAAGGAACAAGCCGGGAGAGGAAAGAAAA A A G A A A G G A A A CAG GAGGGAGGGGGAGGGAGACCCCAAGAGG G G G C A G A C A A A GAC GAAAAGAAGGGGGGGAAACCGGACAA GA C C G G G G G G G GCACACAAACCGGAGAAAGGAGGAAA GAGCGGG CAACGACCGGAGAAGAAGGAAAAAGGAAGGAAAAGGAGCCGG CACCGAAGAGGGGGGGGGGGAAAAGGAGGAACAACCAGAAGG G GAAAGAAAAGGAAAAGGTTGAAAAAGGAAAGGAGAGAAAAA A GAAAGGGGGAAGGCCGAGGGAGGGAGAGGAAAAAAAACAAA G GCCAAAGAAGGGGGGGGAAAGAAGGAGGAAAAGAGAAAAAA A A A A A A G GCC G G G G G G G GAAGGAACCGGAAGGGGAGAAAA G G G GAA $A \operatorname{GG} A A C G A G A A A A A A A G G A A C C A A G G G G C A A A A A G G C C$ AAAAGGCCACGGAGGAGAGAGACGGGGGGAAAAGGGGAGGGG AAAAGAAAAGGGAAGGAAAAGGAGAGAAAAAAAGGCGACAAG GAAGCAAGAGGGGAAGAAGGAAGGGGAGAGAAGGGGCCAGGB GACAAAAGGAGAAAGGGAAAAAGACGGGGGAAAAAAGGACAG
 GAGGGGGGAAAGGGGGGGACGGAAGAAAGGCCAAGGGGAAGG

A G A A G G G G G G G G G G G A A G G G A G G G G G G G C C G G A G G A A G A A A
 A A A C G G A G CAA A A A G G A A G G A A G G G G G G A G C C G A A A G G G G A A G G G GAA $A \operatorname{GGG} G \operatorname{G} A A G G A A G G G A A A G G G G G A G G C A G G A A A A G G$ AAAAAAGGGGGGGACCCCGGAGGAGAGGGAAGACAAAGAGAA

 A A G G G G G G G GCACCGGGGGGGGAGAAGAGAAGAACAAAGAAA AC G G C A A A G A G A A A G G A A G G G A G G G A A G G G A G A A A A G G G G A A G G G A A A A GAAGGCC G G G GAAGGAGGAGGAAGGAAGGGGCCGG ACGGGGAGGGGGGCACGAAAAGGGGGGAGGAAGGCCGEACGG ACAGTTGGAAGACACCGGAAGAAACAGGTAGGGGCCATAGAG G G A G G A A G A G A G G G A A A A A A GAGGCCGGAAGAGATTAAAA GA G G C A A G G A G G G G A A G A GAGGCAAAGGGGGAGAAGAAACCCCC AAGACCGAAAGAAAAAGGGGAAGGCAAAGGGGCCAAAGAAGA AAAAGGCCCAGACAGAGAAAGGACCCCCGGCGAGGGGAGAGA G GAGAAGGAGGAACAGGACACAAGAAAGACAAAGAAAGCCBA C C A A G A A G G G G G G A G G A G C A GAGGGAGGCAGGAAGAAA GAAA AA G GAAAAAGGAACAAAAAGAAGGAAGAAAGAAGAAAAACAA C C G A A GAC GAGGAAGAGGCAGACAAGAGGGGGCCAGACAGBA A G GAGAGACAGGGGGGAAAAGAGGGAAAGGAAACCCGGGGGG G G T TAA $A \operatorname{GGGC} C A A A A G G A A A C A G A G G A A A G G G G G G G G G G G G$ A A C C A G G G C A C C G A G A G A A A G G G G A G G A A A GAA G GAGGGGCA G G A G A G A A G G G G G G G GCCGGAAGGCCGAAAAAGAATGGCAAA A A A A A A C C G A A GAA $A \operatorname{GGGAAAGATAAAGGGGAAGBAAGGAGAG}$ A A G G G G A G A G G GAAACCAGGAACACCGGGGGGGGGGAACC G G A G G GCCCCGGGAAGGGAAAAAAGGAAAAAAAAAAGGGGGAAC G G A G A GA $\operatorname{A} G A A G G A G G G G G G G A G A G G G A G G A G G A C A C C A A A A$ A A A A G GA $\operatorname{A} C A A A A A A G G G G G A G G A A G A G G G G G A A G G A A A G A A$ $G G A A A A A G G A A A G G G G G G G G A A G G A G A A G G A G A A G A A G A A A A$ A G A G G A G A G A C C G G G G G A G A A G A A A A C C A A A A G G G G G G A T G G GGAACCGAAAAACAAAGGCGCAGAAGAAGGAAGGAGAAAGGG A G GA $\operatorname{A} G A G A C G A G G A G C A A A T T G G G A G G G A G A G G A A A A G G A A$ AAAAGGGGAAAGGGAACAACAAAAAAGGAAACGACGC
C GAGGGGAAGAAACCGGGGGGGGGGAAAAAGGAGAAAAAAG G G G G A A A C A G A A G G A G G G G G G G G A A G G A G G A A A A A A A A A G G G G G GAGGGGAAGGAAAATTAAAAAAAGGAAGGAAGGAAAA GAA CAAAAAGGGGGAAATTACCCGGAGAGGACCAAGGGAAGGACA A G G G G G A A C A G A A CAAA A GACCAAAAGAGGAGAAA GAACA GA $G G C C A G G A T A A G G A G G G G G G A A G G A A A A G G G G A A G A G G A G G G$ A GAGGGGACCAAAAAACAGGGAGGGGAAAGGAGGAAGGAGAA
 AAACGAAGGGAAGGACAAGAAAAACCGGAAAAAAAAGGGGCC A A T T A A A A A A A A A A A A A A G G G GAAGGGGAAAAAA G GAAAAC C A A C C A A A A A A A A A A A A G GAAGGAACCAAGGAAGGAAGGAAAA A A G GCCGGGGCCAAGGGGCCAAAAAAAAGGGGCCAAAAGGAA A A A A A A A A G G A A G G A A A A A A G G G G G G C C G G G G G G A A G G C C A A A A A A A A G G A A A A G G G G A A A A A A G GAAAAGGAAAA G GAAAAA G G GACCGGGGAAAAGGAAAAGGAAGGAAAGAAAAAAGGGGGGCC $G G C C A A A A G G A A G G A A G G G G A A A A G G A A G G A A A A G G A A G G G G$ G G G G G G G G A A C C G G A A G G G G G G A A A A A A C C A A G G G G G G A A A A G G G G G G G G A A G G G G G GAAAAAC $A \operatorname{A} A C C A A G G G G G G T T G G G A A$ A A A A A A G G A A G GAA A G G G G G A A G G G G G G A A A A G G A A G GAAA A G G G G G G G G G GAACCGGAAAAGGAAAAGGAAAACCGGCCAAAA
 C CAACCAAGGAAGGGGAAAAAAAAGGGGGGGGAACCAGAGGA G GAAGACCAAAAAAGGAAACGACCGGAAGGGGTTAAAAAAAA A A G G G GAA G GCCAAAAAATAAAGGAGAAGGAACAGGGACAAA GAAAGGAAGGAGAGAAGGGGAAAAAAGGAGAGAAGAACAAAG

ACAGGGGAGGAAGGAACGAACCGGGGGGGACCAAAAGGAAAA GAACGAAGGAAAGGGGGGAACCAGAGAACCCAAAAGAGGGAG $A G G G A A A A G G G G A G G G G A G G A G G G A G A A C A C A G A A G A G G G G G$ AAGGCCAGAGAGAGAGGGCAAGAACCGGGAGAGAGGAGAGCC GAAGGGGAAAAAAACCAAGGAGGAAGAAAAAAA GAAAAGGGA A A A G G A C A A G A A G A G G A A A GAACCAGCAGGGGGAA GAGGGGG A A A A A G A A A GAA $A \operatorname{GAAAAAGGGGAAAGCCAGAAAAAGGGGGGG}$ G G G G G G G GAAGGACAAAGAGCACAAAAAAAGGAGAGAAGAGA G G G A G G A C A A G G G G A G A A A A A CACAAGGGGAAGGGGACACA G AAAAAAGGAAAAAGGGAAAAAAGGGGAAAGAACCGGAGAGCC ACAACCCCCCAAGGGAGAGGAAAGAAGAAAGAAGGGAAGGGG G GCCAA GAAGCAGGAGAACCCCAGGGAAACAGAGGGGGAAAA C CAAACAGGGAAAAAAGGGGAAAGAGAAAGAAAGATCAGAGG $A G A G G A A G A C G A G G G G C C A G A G G G C C A G G G G G A A G G A A A A G A$ G GAGAGGAGAGGGGGGAAGGACGGCCAAGGAGGGAAGGAAGA A GAGAGAGAAGGGGGGGGGAAAAAAAAAAAGGGAAGGGAGAA G G A A G A G A G A G G G G G G G A A G G G G A GA $\mathcal{A} C A A A G A A A G G G G G G G$ GAGACCGGGGGGGAAGGAGGAGACGAGAGGGGAAGAAGGGGG $A A C C A G C A G A A A C C G G G A A G G A A G G A G A G G C G A G C A A G G A G$ GAGGAGGAAAAAAGGAACAAAGAGAGGGAAAACGGAACAACC AAAAGACACCGAGAAGGGGGCCACGGAAGGGGGGCCAAAGGG A GAAAA A $A$ A $A \operatorname{A} G A A G G A A A G G G G A A A A A A G G A A A G A A G G G G G G$
 G GACGGGAAAAAGGGGCAAGCCGGGGAAAAGAAAGAAAGGBA A G G A G A A C G G A A G A A G G G C CAAA A G G A G G GAGAGG GAA A A A A G G G G G GAAAAAACCCCGGAAAAGGGGGGGGAAGGGGAAGGGG AAAGGAACGGGGAGAAGGAAGGAAAAGGGGAAAAAGAAAAAA
 A A G G A A G G A C G A G G G G G A G G G G G G A A A A A G G G G G A A G G G G A A GAAGCAAC GAGGGGGGGGGGGGGGGGACAAGAGAAAGGTTGG G GAACCGAAGAGAAAGAAAAAGAAGGAAGGCACCGGAAAAAG G G G G G G G G G G G A A A A A G GAAAC GAGGAGGGAAGGTTAGTTGA G G G G G G G A G G A A G G G G G G G G G G G A G G G G T A G G A A A G A A A G $G A$ C C G G G G G A C C A G A G G A G G G G G G A G G G G G A A G G A A A A G A A G G G A A A A A A A G GAA A G G A A A GAGGGAAAAAAGGGGGGAAAAACAA C CAGAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A C C G G A G A A A C A A G G G G A G A G A A A G$ A GACAAACACGAGAGGAAAGCCCCCCAAGGGGAACCAACAAA G G G G GAACGGAGGAGAGGAGACCCGGAAAAAAAGGAAGACAC GAAATAAGGACCAAAAAAGGAAAGAGGGAAAACCGGGGAAAA G G G GAA $A \operatorname{GA} A G A A C A G C C T A G G A C G A A A A G G G A A G G G A A A A G$ $G G A A A A G G G G A G A A A A G G A A A A G G A G G A G G G A A A A A A A G G G G$ AAAGGAAAGGAGCCCCAACCAACAAAAAAGAGGAACGGAGGG G G G G G GAGACAAGGAGGGGGGGGAGAGGAAAAGGAAAAAAAA AAAGAAGGCCAAAGGAAAGGAAGAGGCCACAAGGCCGGAAAAA G GACGGAAAAGAGGGAAGAAGAGGAAAAAAGGGGAAGGACAA AAGGGGCCGACCCCCAAAAAAAAAAAACGGGAAAACGAAGAC G G G G C A G G A A G G G G A A G G A G G A G G A A G G G A G G G A G A C C A A G A AAAAACACCCGAGGAAGGGGGGCCAAGACCAAGGGAAAGGGG G GAAAAGGGGTTGGGGAGGAAAAAAAAACCAAGAACAGAAGA GAAGGGGGAGGGAAGGAACACCAAGGAAAACCGAGAGAGGGG C C C CAC G GAA GAAAAAGAAAAAGAGAAACCAGGAGGGGAGAA G G G G G G A A C C G G G G G G G G A G G G A C T T A G G G G G G A G G G G C C $\mathcal{A} A$ G G G G A G G A G A A G G G G G G G A G A G G G G G C C G G C C G G G G G G G G G G
 G GCAGGCGAAGAACGGCAGGGGAAGGAAACAAGAAAAGGAGG GAGGAAGACAGGGGAAAGCCAAAAAGGAGATAACGBAAAAGBG CATTAGAAAGCCGGAGAAAAGGCAGGGAGGGGAAAAGAAAAA A G GAGAACAAAACC GGGGAAAACCGAAAAGGGGGAAAGAGAA G G G G A A A A A G G G G A G A G G G G G G G G G A G A A A G G T T A A A G A G G A

A GCGGGAGGAAAGGAAGGCAGCGAGAAGGAACGGGGAAAGGC
 $A G C C C C A G A A A G A A C C A A C C A A A A A A G G G A G G G G G G A A A G A G$
 G G G G G GAACCAAAAGGGGGGAAGAGGCCGAGGCCTTGGAAAA ACGGGAGGAGAGAGAGGAAACCAAGGAAAAGGCCAGAGAGGA G G G G A A G G G G G G G G G G C C A G G G A GAGAGAAAACCCCAA G GAA CCAGCAAGAAAGGAGGGACAAACACCAAGGGGGAAGAACCGG A A G GAGAAGGACAGGAAGAAGAAGCCAAGAGGCCAAAGGGAG AAAGAAAGGGGGGAAGGGAAGGAAGAAGAAGAGAAAAGAAGA
 A A A C A A G G G G G G GAGGGAGGAAAAAAAAAGAAGGGAAGAAAG A GAAACCAGACCGACAGGAAGGAAAAGAGAGGGGGGGAGAAA A GAAACAAGGAGACAAACACAAACAGACGGAAGGBAAAGGGG A A G GAGCAGGGAAGCCGAGGCCGGAGAAGGCCAAATAGAACC G G G G G GAACCGGAAGGGGGGGGAAGGCCCCCCAAAGGGACAC C CAGACAAAAGGCCAGAAAGGGGGAAAAAAGGGGAAAGGGGA A G A A A GAGAAAAGGAAAAAAACGGAAGGAAGGAAAAGAAGAG A A G GA $A$ A A $\mathcal{A} G G A A G A G A G A G G A A G G A G G G G A A G A A G A A G G G G$ GGAACCGGGGCCCCAAAAAAGGTAAAGAAGAGGAGGAAGGGG AAGGGGGGCCGGAACCGGGGGGGGGGAGAAGAGGAAGAAAAA A GAACCGGAAAAAGAATAGGGGGGGCAGGAAGGGAAAGAAAG GAAAGAGAGGAAAAAAGAGGAAGAGGAAAGATCGGGAAAAGG AAGGACAAAAAACCGAAAAATAAAAAGAGGCCAAGAACAGAC A A A A A A A A GAAAC $A$ A A $A \operatorname{G} G A G A A C C A A G G A A G G A A G G A A G G T T$ G G G GAA A GAA $A \operatorname{AGGACCAAGGGGGGGGAAAAGGGAGGGAAGAA}$ A G G G G G G GAGACAAGAATAAGAGAGGCCGGGAAGGACC GAAA C CAAAAAGTTAAAAGGAAGGAAAAAAGGAAGACCAGAGA GAA A A G G G GAA $A$ A A A A A A GAAAA A A A A A A GGGGAAGGGA GAAAAAA G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGCGGGAAGGAGAA G G A A C C A A G GCC G G A A G G A A G G A A G G G G A G A G C C G G A G G A G G GAAAGGCCAAGGCCAAGAAAGGAGGGGACCGGAAGACCCCGG G GAGGGGGCAGGGGGGGGGAGGAGAGGGAAAAGGAGAGAAAA

$G G A G G C C A G A A A G A A G G G G A G G G G G G G A A A A C A G G A A A A G G$ C C G GACAGAGGGAACCGGAAAAAAGGAGCCGGAAAAGAGGAG A A A A A A G G T T A A GAGAGAAGAGAGAAGAAGCCGGAAAAGAAA A GACGGGAAAAAAGCCAATTGGAACCGAAGAAAAAGAGAGGG A A G G GACCAGAAGGACAAGACAGAAAGGAAGGAGGAAAAAAA A G G G A G G G C C A A $\mathcal{A} A G G G G G G G G G A G G A G A A G G G G G G G A A C A A$ AGGCCAGGGGAGCCGGAAAACCAAGAGGAGAAGAAAGGAAGG G G G G G G AC GAAACC GAGAAACCAAAAAACACCAGGAGGAAGG G GAAGATTGGAGAGGAAGCCAGAAAGAACCAAGGAGAAGGGG C CAAC GAA $A \operatorname{AGGGAA} \operatorname{A} A A A G G A A G G A A G G A G A A A G A A C C A G A A$ G GAAAAAGAACCAACCAGAAAAAAGAAGGAGAAAGAAAGGAA A A G GAA A G GCGGAACCAAGGCAGGGGACAAAAAGGAAAGAGG AAAAAAAGGAAAGGGGAAAGAGAGAGGAGAAAGAGGGAAAAG
 G GAGGAGAGGGAGGAAGGAGGGCAAAGGAAAGAAGGGGGAGG $C \subset A A G G G A G G C A A G A G A G A A G A G A G G A G G C A A A G A G G G A G A A$ G G G G A A C A GAA $A \operatorname{GGG} A A G A A G G C A A G C C A A C A A G G G G A G G G G$ AACCGGGGAAAAGGATGACGCAAGAAAAAAAAGGAAGGAAAA G G G G A A A A G C G GAA $A \operatorname{G} G A A G G G G G A A G A C G G A A A A G G G G C C A G$ G GAGGGGGGGAAGGGGAAAGAGAAAAAACCCCAAGGAAAGGG G G TAAAAGAAGAAGGGCCAGGAAAGAGAAAAAAAGGGGAGAA GAGGACGGGAAGGAGAGAAAAAAGAACCGAGGGACCCAGGCC C C G G A A A G A G G G A A G G G G G G G G A G G G A G A G G G G G G G G G A G G A $G G A A C C G G A G G A G G A A G G T A G A G G G A A G G G C C G G G G A A A A G A$ $G G A G G G A A G G A A A A A A A A G G G G A A G G A G A A A A A A A A A A G A G A$

G GAAAAGCGGGCAAAAAGGAAGAAAGAAGAGAAGAGAGAGGG G G G A A G A A G G G G GAGGAAGGAAGGCCGGGGAAAAGACAACAA AAAAGGACCCGGAAGGTTAAACGGCAAGGGGGAAGAAAACAA A GACGGAAAAGGGGACAAAGGAAGAGGGAAGAGAGAAGAGAG A G GAGGCCCAGAAGGGGGGAAAGGAGGACCGGGGAAAGAAAG G G A A A A G A G G G G G G A A G G C G A C A A A A A A A A A A G GACAAC C T T GCAGGACCCCACGGAGAGCAGGCAGGAGAAAAAGGGAACCCC

 GGAACAAAAGGGGAAAAACCCGCCAGAAAGACAAGGCCGBAA
 A A G A G G G A C C C C G G G C A A A A G G G G A A GAAAAC G GAAAAC C G A
 A A A A G GAGCCAAAAGGCCGAGGAAAAAAGGGGAAGGTTAACC A A G GAAAACCTTACAGACAAGGAGAGAGGAAGAAGGAGAGAG G GAAAAGGGCCAAGAAGAACGGGGGGGGAAGAGAAGGGAAGA CA G GAAAAAAAGACAAAAAGGGAGGAAAAACCAAAAAAAGCC AAAGAAAAACAACAAGGGAAAAACCCAAAGAGAGGAGAAGAG G G G GCCGGAAGGGGAAGAGGAAAGAGAAAACCGAGGAAGACA A A G G A A A A A A A GA $A$ A A A C A G G G G G G C C G A A G GA G A A A G G A C G G $C \subset G G G G G G C C A G A A A G A A A C G A A A G G A A G A C C A C A A A G G A A A$ CAAAAAGAGACGAAAAGAGGAACCGGAGAGGAAAGGAAAAAA G G G GAGGAGAACCCAAAGGAAAAAAAGAGAAAAACCGGGGGG A A G G G G A A A A G G C C GAGGGGTACC G GACAA GACA G G G G G G G A G AAAGGAAGAAGGGGGGGGGAAACAAATTCCAAGAACAAGGAA G G A A A A A A G G G G G G G G G G G G G G G G C C G G G G A A G GAACAAAA A A A A A A A A A A A G GAAAAAAAAAAAAGGGGGGAGGATTGGAGAA C C A A T T G G A A A C GAAA $A \operatorname{AGGGAAGAGGAAGAGGAAGGGGGGAG}$ GAAGAAAGGAAACCGGGGAAGAGGGAGAGGAAAGAACCGGCC AAAAAAGGAAAGGGAAGAGGGAGAGGAGCCAAGGGGCCAAAA AAAAGGAGGGGGAGCCAAAAAACACCAGAAGGAAAAGAAAGB AAAAGGGGAAGGGGAGGGGAGACACCAAAGAAGGAAGAACAC GAGAGAGAAAGGGGGAGACCAGGAAAAAGGAAGGAACAAAAA G G G G A A G G A A G G A G A A G A A A A C A A G G C G G A A A G GACAA G G A G A ACCCCAGCCCCCCGACCAACCGGCGGGAGAACCCCAAGGAA C C A A A A G G A A C C G G G G A A CAGAGAGGAGGGAGAGGACAAAAA AACCAGAAAAAAAAAAAAAAAAGGGGGGCCGGGGACCCCCBA A GAGGATAGGGGAGAGAAAAGGAGCAGGTTCCGGGGCCCGGA G G G G A G G G G G A A G A A A $\mathcal{A} G A G A A A G G A A A A A G G A A G G G G A G G G$
 G G A A A A A A A GAACCGAGGGAGGGGGGCCAAAACCGAAAAAAG GA GAAA A A A A A A A A GAGAAGAACCCCAAGGAAAAGAAAAAAA G GAAAGGAAGGGAAAAGGGAGACCCCCCGGACAGCCGGAAGG A A G G G GAA A A A A G A A A A GAGGGGGGGCAAGGGGGGAAAAA GA G G G G A A G G G G A A A C C A A G A A G A A C A G GA G G G G G G G G C A G G G G A G G G G GAAATAGGAGGAAGGAAAAGACAGACCAGGGGAAAAA A A A A G GA GAA $A \operatorname{G}$ GAAAAAGGAAAAAGGCCGAAGAAAAAAAACC G G G G G GCC CAG GAGAGAAAACCAGACGGGGGGGAAAAAAACC ACAGGGAGAGAAAGGGAAGGGAGACGACACGGGGCCAGAAGA GACCAACCGGAAAAGGGGAAAAAACCAAAAAACCAAAAAAGG A A G G A A A A A A G G G G G G G G A A G A G G A G G G G G C C A A A A A C G A G G AA $A G A A A A G G C C G A A G G A G G A A A A T A A A G G G G G G A C A G A G A A$ A A G G G GAAAAA A A $A \operatorname{A} G \mathrm{G} A A C C G G G G A A A G G G A A G A A A G G G A G G$ $G G C C G A A A A G C C A G A A G A A A G G G G A A G A A G A A A A C C A A G G G G$ AACCGGGGGGAAAAGGAGGAAAAAAAAACACAAGAACAAGAA A A A G G A A G A C G A GACCAGAATAGGACAGAAGGCCAA GGAGAA
 GAAAACAAGGGAAAAAGGGGGAAGAAGGAAGGACCCGAAAAG G GAAGGAAAAGGAAGGAACCGGAAAGATGAGGACAGGGAGCC

GAGGTAGGAAAAGGAAGGGGAAGAGACCAGAGCAGGAACCCG GACCGGGAACGGTTTTGGAAACGGAAGGTAACAAAAAACCCC A GCCGGAAAGAAAAAAAAAAGAAAAAAACCCAAAG GAAAGAA AAGGAAAGAACCGGGGGGAAGGGGGGGACCGGGGGGAAGAGG AAAAGGCCAACCGGAAAGAAGGGACCCAGAGGGACCAGAGAA AAA $A \operatorname{GAAA} G \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A A A A A A A G G A G A G G A G A G G G G A A G G G G$ A G G G A A A A G G G G GACCCCAAAGGAGGAAGACCCCAGAAGGGG G G G GCCGGGGGGAAAGAACCCCGGGGAGCCAGAAGGCCAGAA A A G G A A A A A A G G G G G G A A G G G G A A C C A A G G A A G G A A A A A G A G $C \subset A G C C G G A A A C A G A A A A G G C C G G G G A G A C A A G G G G A A A A A G$ A G GA $A \operatorname{GA} A G G G A G G G G C A A A G G A G A A G G A G C A G A G G A A G G G G$ A G G A A T G G A A CAGGAGAAGGGGGGGGCCAGCCAAGAAAAAAA CA G A A A A A ATAGCCAAAAAAAAGGAAAAGGGGAAAGGGAAAG A A GAG GAAAGCAAAAACCGGAAGGAAGGGGGGGGGGGGABAAG
 G GAA $A \subset A A A C A A G G A A G G G A G G G G A A G G A A G G G G A G A A G G A G$ A T GAA A A A G G GAGGAAAGAGGGAAGACAGGAGGAGCGAAGAG A A A A GACCCCAGAAGGAGAAGAAGAGGGAGGACCGGGGAAAG GAAAAAGGGGGGGAGGAGGGAGGGAGGGAGGGAACCGGAAGA G GCCCCGGGGAAAACCAGACGAGAGGCCGGAAGAAAGGGGGG AAAAGGAAAAGGGGGGGGAACCGGGGAAGGAAGGAAAAGGGG G GAAAAAAGGGGGGAAAAAAAAAAGGGGGGAAAAAAAAAGGG G G G GCCAAAAGGGGAAAAGACAGGGGAAACGGGAAGCCAAGB G G A A A A A A A A A C G G A A G G G GAGGGCCGAAAACGGAAAAAAAA
 T TA $A \operatorname{GA} A A G G A A G A G G A A A G G G A A A G G G A G A G G G G A A C A A G A$ GGAAGGCCGCGACCAACGCCAGAGAGCAGGAAGGAGACAGAA A A GAAA A A A A A G G GAAACGGGAAGGGGGGGAAAGAAAGAAGG AA GAACAGGACCAGAAGGGAAAAACAAGAGAGCAAGAGGGGA GGGGCCCAAAAAAAAAAAGGAAGGAAGGAAAGGGCCGGAGGA A A GAGGAAAAAAAGAAGGAAAGGAGGACGGGGAAGGCAAAAG G GGACCAAGGAGGGCCGGAAAAAAAAAAAGAAGGAAGGGGAA A A A A A A GAAAGGGGGAGGGGAGGGAGGAGGAGAAAAAAAACC AAGGAAAAAAGGGGAAGGAAAAGGAACCCCAAAAGGG
$G C C G G A G C A C A A G A A A A A A G A A A G G A A G G G G A A G G G A C A C B$ A A A GCAAGACAAGGAGAGAAGGGGGGCAAAACAGGGCAAGAA G GAA A G C C A G G G G G G G G G G GCGAAAACCAAAAAGTAGACA GA A G GAGACCGGAGAAGGCCAAAAGAAGAACCGGGAAAAGACAT C C A A G G G A A A $\mathcal{A} G G G G G C C A A G G G G G G G G G G G G A A G G C C C C C C$
 GATAAAAAAAGGGGGGCCTAAGGAGGGAGAGGAGGGGAAAAG G GAA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{G} G \mathrm{G} A C \subset A A C C A A G A A A A C G G A A A A G G G G G G G G$ AAAAAAAGGGGGAAGGAGAACCAAAAGAGACAAGGGAAAAGG ACGAAACAATAGACGGCAGGAAGGAAAAAAGGGGGGGAACAA GAGGGGACAGGGGGGGAAGGCAAGAAAAAAGGAAGGGACCAA A A A A G GA $\operatorname{A} G \mathrm{G}$ GAAGGCAAAGGAAGAGAGGAGAGAGAACAAGAG G G A A A C C C A A C C A A A A A A G A A G C C A A G G G G G GC C A G A A G A A G G GAAAAGGAACCGGGGAGAAAAGGGGAAGGGGAACCAGAAAA A GAAAAAATTACAGAGGGAAAGGAAGGAAGGAGGAGCCAAAG GACAAGGGGGAAAGAAGCCCGAGACAGAGGGGAACCAAAAGG G GCCAAAAAAAGAAGGAAGGAGAGAAAAAAGAACGAAAAGAG
 G G G G A G A A G G A A G A G G G G A A G G A A G G C C A A A G A A A A G GAAA A A A A A A A A A G GAAGGCCCCAAAAGGGGAAAAAAAAGGCCAGAAA G GAACCCCAAAAGGGGGGAAAAGGGGAAGGTTGGAAGAAAGG G G G G G G A A A A A A G G A A G GCCCCGGAAGGGGGGAAAAAAAACC A A A A A A $\mathcal{A} G G G A A G G A A A A G G G G G G G G G G G G A A A A G G A A A A A A$ A A G G G G G G C C G G G G G G A A G G G G A A A A G G A A G G A A G G G G G G G G $G G C C A A G G A A A A C C A A G G A A A A G G G G A A A A A A A A G G G G C A A A$

AACCGGAAAAAAAAAAAAAAGGAAGGGGGGCCCCGGGGAAAA G G G G G G A A G G A A A A G G G G G G G G G G A A A A C C C C A A G GAAAAAA G GAA $A \operatorname{GAAAAACCCCGGAAAAAAGGAAGGGGCCGGAAGGGGGG}$ AAGGAACCAAAAGGAAAAAAAAGGAAAAAAGGCCGGCCACAA G GAACCGGAAGGGGAAAAAAGGAGACCCAAAAGGGGGATACC AACCGGCCAGAGAGGGAAAAGGCCGAAAAAGGACAACAGAAC
 A A G G G GAA A G A G A C A A $\mathcal{A} G G G G G G G G G G G A A A A A A C C G G T A A$ G G G G A A A A A A G G G G C C G G G GACAGGGAGCAAGCCAGACAAA G G GAAGGCCAGGAGGAAGGGGAAGGCACCAGAAAAGGCAAAGAG $C \subset A G A C G G G G G A G G G G G G G G G G G G G A G G A A G G G G G G A A C C C C$ A GAGAA GAAGGGCCAAAGAAACGCGAAGAAGGAAAAGGAGAA C C G G A A A G A G A G G G G G A G G GAA $A \operatorname{G} G A G G A C A G G C C G G G G A A G G$ CCGGGGAAGGGGGGAGCCAGGAAAGGAGACAGAGAGAAAGAA AAAAAAGAAAAGAGGAGGGGAAGGGGAGGGGGAAGAAAAAAA G G GAA ACCCCCCGGGGCCGAAGGGGAAGAGGAGGGAAAGGAG GAACAAAACCGAAGAAAGAACAGGAAGGAGGGGGAAGAAAGA G G GAA A A CAA $A$ A $A$ GAGATAGGAGCACACAGGGGAGAGAAAAAG $G G G A A A G G G A G G A A A G A A A A A G G G G G G A G G A G G G A A A A A A A C$
 GAGGAGAAGAAAGGGGAAAGAGGAGGAAAAGGGGCAGAAGAA GAAGGAGGGGCCAGGGGGGGAAAGAGGAAAAAGGGAAGAGCC C C C G G GA GAGAGCCAACCAGGAGGGGAAATGGGAGGGGAGAA GAGGGAGGACAGGGCCGAGGAGAAAAGCAAAAGGGGGACGAA A A GAA ACCAGAGGGCCGGAAAAGGGACAGGAAGGAGAAAAAA GCAGGGACGAAGCGGGAGAAAAGACCGGAGGGAAGAGGAGAA AAGGAAAAGAACGACCGGAGCCGGGGAAATGAGAAAAAGGAA AAGGCCAACCAAAGGACCACAGAGAGAAGGGAAAGGAGAAGG C CAA GACCAAGGAGAGAAGAGAAAGGGAAAGAGAGGCCCCCC GACCAAGGCAGGGAGAAAGGGGAGCCACCCGAAGAAAGAAAG GAGCGGAAAACCGAGGAGAGCCAAGGAAAGACAGAAAAGGAG G GAAGGGGGGAGGGCCAGAAAAAACCAAAGCCAGAAGGCCGG G G A A A A A G G G G G A G G G G G A A G G G G A G G G C C G G A A A G A C A G G G $G C A A A A A C G A A G G A A A A A A C A G A G G G G G A C G A C A A G A A G G G G$ A G A A G G A A A G G A G G C C G A G G G G G G G G A A A A A A A $\mathcal{A} G C G A G G G A$ $G G G A G A G A A G G G A A A G G A G G A C A A G G A A C C A A G G A G G G A A G A$ AAGGAAAGAAAAGAAAGACCGGCCAGAAAAAAAAAAAAAGGG
 G G A A G G G G G G G G C C A A A A G G A A G G A A G G G A A GACAA A G G A G A
 GGGGCCGGAGAGGAGAAAAAAAGGGGGAGAAGCAAAAGAGAA
 A A A G G GAA A G G G G G G G G G G GACACAC GAAGAAGGGGGAACAA A GAGAGAAGAAAAGAAAGAAAGGGGAAAGGGAAA GAAAAGAA GAAGGAGGGGAGCAGAGGAGCAACGAAACAAAAAAAGBAGAC A A A A G A G A G G G A C A G G A G G G A G G A GAA A GAGGGAAGGAAAC C A GAACACAAGAGAGAGGAGAAAAGAGAGAGGGGGGAAAAAAC GAAAGAGGAGCAGGGGGAGGAGAAAAGGGGGACAGGGACCAG A GAA A G G G CA $A \operatorname{AGG} \operatorname{GA} A A A A A G G G G G G C C G G A A G A G G A G A G A G$ G G G G C A A G G A G A A G A G A A A A A G G G A GAGGGGGAACCCAAGAA A A G GAAGGCCAAGGAAAAGGAAGAGAAGAAAGCCGAGACAAG G G GAA A A A G G G GCCGGAAGGAGAAGAAAAAAGAGGAAACCAA GAGAACAGGAACAGACAGACAGAAAGAAAAAAAAAAAGAGGA C C G G G G G GCCAACACCAAGGAAGGGAAAAAAACCAGAAGGGG A A G G A G G A A C G G G G G G G G G G A A A C A GAGGGGACCCCGGAGGG AAACGGAGAAAGAAAAAAGGAAGAGACCGGCAGGAGAAAAAG GAAGGGAAGGAAGGAAGGGGAAGGAAGGCCAAGGGGGBAACC A A G G A A G G A A G G A A A A A G CACA A A A GGGGAAAAA GAC C GAAA A AAAAAAGGAGATAGCGGAAGAAAAAAAGGGAAAGCAGAGCCC

AACAGGAGAGGAAAAAGGAGAGGACAGAGACAGAAAAAGGGG G G G G A A G G G G A G G A A G G A A G A A A C G G G G G G G G G A G G A G G A G G AAAA A G G GAGGGAGAGAAAAGAAAGAAAGAGGGAGAGGAGAA G GAAGGCCAGAAAAGGCCGGAGAAAAGGGACAAAACGGGGGA A A A A A A A A A A G GAA $A \operatorname{GA} A A A T A A G G G A G G G A G G A G G G G A G A A$ G A A A A A A A G G A A A A C C G A A GAGGGAAGGGGAAAACCAAGGGG G G G G A A A A G G G G C C G G G G A A A A G G G GAAAA A G G GAACAAA G A AAAACCAAAAAAAAAACCGGGGGGGGCCAAAAGGAAAAGGGG A A A A A A A A G GAAAAAAAAAAAAGGAAGGAAGGGGAAAAGAAA G G G G G G G G A A G G G GAAAAGGCAGGAAGGAAAAGAAGGGAGGG
 GACCACACGACCAGGGGAAAGGAGCCAATTAGAGBAGEGAAG C A A A A A G G G G A G G A A C A G A A A G A G A A G G G G G G G G G G A G G G C C AAAAGGCCAAGGAAAAGGAAAAAAGGAACCGAGGAAAAGGAA A A G GAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAGGG G GAAAAAGAAGGGGGAGGAGACGGAAGAGGTAACGGGGGGCC A A G G G G GACCCCGGAGAGCAGAGGAGAGTTGGAACCGGGGAA G G G GCCCCGGGGAAGGAAAAAACCGGCCAAAAGGAAAGGGGG G G G GCCCCGGCCGGACGGGAGGGGGGGGGGAAAAGGCCAAGA A A A G G A A G A A G G A G A A A A G A A G A G G G C A G G A A A G A A A A C C G A AAAAAACCAGAGGGAGGGAAAAGGCCGGAAAGAAAGAGAGAA A A G GAA $A \operatorname{GGGGGA} A A A A A G G G G A A A A G A A G G A C C A A G G G G G G$ A A A A G G G G G G A A G G A A A A A A A A G G G GAA $A C G G A A G G A A A A G G$ G G A A A A G G A A A A A A A A G G G G A A A A A A A A A A G G G G G G G G G G G G A A A A G G A A G G G G A A A A G G G G A A A A G G A A G G G G G G C C G G A A A A G G G G G G G G A A G GAA $A \operatorname{GGG} \operatorname{GAA} A G A A G G G G A A C C A A A A A A G G G G$ G G A A G G G G G G A A G G G G G G A A A A T T G G T T G G G G A A C C A A G G G G G G G G A A C C A A A A G G G G A A A A G G G G A A G G A A G G A A A A A A A A G G C C G GAAG $A$ AA A G GAAAAGGGGCCCCGGGGCCCCAACCAACAAA G G GAGGGAAAGAAAAAGGCGGGAAGAAAAAGGAAAAGGAACA GACCACAGACAAGACAAAAAAAAGACAGGAGAAGAGATAGAG GAAGAAAAAAGGGGGGAGAAAAAGGGGAACGAAGAGGAACAA G GAA A GAAGGGGCAAAGGGGGACCAAAAATCAAGAGGAAAAA G G G GCCGGGGAAAAAAGGCCAGGGCAGGAGAAAGAAC
 G GCCGGACAACCAAGGCCCCCCAGGAGGAAAGAGAACCAAAG GAAAAGAGAAGGGGAGGGCCGGTTGGGGAAGGGGGGGAAAAA AA G GATGGAAGAAAAGAGCAAAGAGCAGAAGGGGGGAAAGAA G G G G G G G G A T A G A G A A A A A A G G G G G G G G G G G G G G G G A A A A A $G$ G G GAACCGGGGAAAAGAGGATGGGGGGCCAACCAGAAAGAGAG AAGACCGACAAACAAAAAGGAGAGGAAGGGGGAAGGGGAAAA A A A G G G G A C C A A A A G G A GAGGGAGGGGACAGGGGAAGGAGAA
 GAGAAACCAGGAAAAGGGAAAAGGCAGAGAGAACAAAGAAGG $G G A A C C G G A G A A G G G G A G A A G A A G G A A A G G A A A A G A A G G G G G$ G A A A T T G A A G G A A A A A T T G G G G A G G G G G G G G A A A A A A G A A G G T TCCGGAAAAGGAACCGGCAACGGGGGGCAGAAGGGGACAAA CAGGGAAGAAAGGAAAAAAAGGCCGGAAGGAAGAGAAGCCGG GACGCAGGAAAAAAGAGGGAGGGAGGAGGAGAAAGAAAATCG GAGGCCAAGGGGGGGGCCGGGGAAAAAAAAATGGGGGGAGAA G GCC C GCGGCGGGAGGAGAAGAGGGGGGGGAGACAAAAAGAA $A C G G A A A A A A C C G G C G A G G G G G G G G G A A A A G G A A G G G G A A T T$ G G G A A C A A G G C C A A G G G G G G G G G G A A A A C C A A A A G G G G G G G A $C C G A A G G A G G A G G A G G C C A G A A A G G G G A G G G G C C G A G G C A A A$ $C \subset G C G G G G G G A A A A A G A A A A C C G A G G G A A G A G G G A A G G C C G G$ GA G A A A G A G G G GCAAACCAACCTACCGAAAAAGAAGACAAGBG GACGAGGGAGAAAAAACCAAAGTAAGAACCCCAAAGBACAAC A G G G A A G G G G G GACAGCCCCAAAAACAGGAAGACAAAA GAA G A A G GAGGGAGAAAAAACCAAAATTGAAGAGAAGAAAAAACAA

A GAAGAAGAGACACAGGGCCAAAAGGAAGGGGGGAAAAAACC $A G C C G G G G G G A A A G G A G G A A A A C C G G G G G G A G G G G G A A A G A A$ AAAAAAAAGAGGAGGGAAAAAACCAAGGGGGGAAAAAAGGAA AA $\operatorname{A} G A A C C G G G G A A A A A A G G G G A A A A G G A A A A A A A A A A A A C C$ A A A A A A A ATTCAGGGAAAAAAAGAGGAAGGAGGGAAAAGGGG A A A A A G G G GAAAAGGGAAGAAAAACCAGGCAACCAAGAGGGG A A GAA $A \operatorname{GG} A A A T A A A G A A A A A A G G G G A A A A G G A G A G G G A A A C$ A A G A A A A A A A C CAAAACAAGGGAAGAGGAAAAGGAAGGGGGA AAAAGGCCAAGGAAAAAAAACCCCAAGGAAAAGGGGAACAGA AGGGGAGGAAGAAAAAAGCCGGAAAAAACCGAGGGGGGGGAA ACAGGGAGAAGGGGAAAAGGGGGAAGAAAAACGACCGAAGGG G G A G A G A C G G G G G G G G G C A G G G G A G A GAA A GAAAA A A A A C C G G
 A A G G A C G G G G A G A G G G G A G A G G G G A A G G C C C C A A A G G G G G A A G G G G G G T TCCAAGGAAAAAGGAGAGACCAGACAAAAGAAAAA A A A A A A A A G GAAGGGACACCGGGGAGAGGGGGGGAAAAAAGA G G G G A G C A G G G G A G A A G G G G G G A A G G G G A A A A C C A A A G G G G G
 AAAAGGGGACAAGGAGAAGAAGAAAAACAAAGGGGAAAGGAA G G G GAA A GAAGGGAGAAAAGGAGGAAAGCCCCGAGAAAAGAA AGCACCAGGGACAGAAGAAAAAGGAAAACCAAACGGC GAAAA A GAAAAGGGAAGAAAACCGGACGAAAAGGAGAAAAAAGAAGAA CAGAACGGGGATGGAGGAGGCCGGAGGAGGCAAAAAGAAAGG G G G A G A G GCCAAAAGGAAAAAAACGGACGGGGAAGGAAAGBA
 A G G GAAA A A G G A A A A A GAAAGGGGCCAAGAAGAACCAGAGGA CAGGGGAAGGAAAACCAGGGAACGGACCCCAAGAAAAAAGAG C C A G A A G G A A G G G G A C A G C CA $\mathcal{A} G G G G A A A A A A G G A G G G A G G G$ A G G A A GAA $A$ A $A \operatorname{GGGGGAGACCCGGAACAGGGAAAAAGGAAAA}$ AAGGACAAAAGGCCAAAAAAAAACAACCGGGAAGGACCAGGG C G G GAAAAA A G GAC G GAAAAAAAGGGAAGGAGCCGBAAGGGG G GAAAAGGAGAACGAAGGCCGGGAGGAAAAGGGGGAGACCAA A GAGCAAA $A \operatorname{A} G A A A A G A A G A A A G A A A A A G G G G G G G G A G A G A A A$ A A G G A G G G A A G G A G G G G A A A G G A G G A G G G G G A G G A G G A G A G G GAAAAAGGAAAAGAGGCCGCGGAGGAAGCCAAAAAAGAGGCC G GAA A A A A GAGAGGACGAAGCCGGAAGGGAGGCCAAABCACC G GAGAGCAGGAAGGGGGGAAGGCCACGAAGGGAGAGAAAGAA A GAAAAAAGGACAAGAGAAAAAAAAGGGGGAGCAAAACAAAA G G G A A G A G A A A A G A G G A A G G T A A A A A A GAGGGAAC CAA GA G G
 A A A A G GA $A \operatorname{GGG} G \operatorname{G} A A A G A G G A G G G G G G G A G G A G A A A A A G A A A G$ G GAA $A \operatorname{GAAACCAACCAGGAAAGGACGGAAAAAAGGAGGGCCGG}$ AAGGAAGAGAAGGAGGGGGGGGAGCCAGAAAAAGGGCAAACAC A A A A C C A A G A G G G G A G G G G G G G G A A A C C C C A A A A G A G G C C G G G GAGCAGGAACAAAGGGAGGAAGAGGGGAACCBAAGAGAGBA A G A A A G A C G A C C C C G G G G A G G G G G G G A A G G G G A A G G G A A G C C AGAAAGGGGAACAGGGAAGAAAAAGAAAAAAAAAGGAAGGAA A A A A A ACAAAACAGCAAAAGGGCCAGGGAGAAGGGGCAAACAC G GAAAAGAAAAACAAAAAAAAAGGAAGGAACCAAAAAAGGGG G G G G G A G G G G C C G A A G A G A G G G G G A G G G G G G G G G C A G G G A G A GACACCGGCCGGGAGGAAGAGGCCAGATAAAAGAGGCAAAAG GAGGAGCCAAGGGGCCGGGGAAGGGGGGGGGGGGAAAAABCC GAAACCGGCCAAGGACAAGGGAGGAAAAAAAAACGGGGGGGG A GAGGGAAAGGACCCCGGAACCGAGGGGGGGGCCGGGGGGGG
 A A A A G A G G A A A GCAACAGGGAGGGCCCCGGGAGAAAGGGAAA G G G GAGGAAGGGAAAGGGAAAAAAAAAGGGAAAGACCCAAAA $G G A A G G C C A A C C A G C A C G A A A G G A A G A G A G A A A G G G G G G G G G$ AAAAAAAAGGGGGGAACCGAAAAGAGGGAACCGAATAAAACC
$C \subset G A G G G G A A G G A C G G A A A G G G A A G G A A C C G G G A A G C C G G A G$ C CAACCAACCCCAAAAAAGGGGCCAAAAGGCCCCAACC G GAA
 A A A A A A A A GGGGGGAAAAGACCCCGGAAAAAACCAAAAAAAA A A A A A A A A A ACCGGAGGAAAGGGGAAAAGGCCGGGGAATACA
 A GAGGGGAAAAAGGCCGGGGCCCCAGAAAGAAAAGAAGAGCC T T G GAGCAGAAGGAGGGGGAGGAAAGAGAAAAAAGAAAAAGAG G GCCGGGGAAAAAAGGGGAAGGGGGGAAGGGGCCAAGGABAA AAGGAAGGAAAAAACCGGAAGGAAAAAAAAAAGGGGGGAAAA

 AACCCCCCGGAAAAAAAAGGAAAAAAGGAAGGGGGGGAAAGG GGCCGGCCAACCGGAAGGAAGGAAAAAAGGAAGAGAACAGAC G GAA $A \operatorname{GAA} A A A G G G C C G G G A A A A A A A G G A A A G A G A G A A G G C C$ A A A A G GAA A GA G G G G G G GAAGAGAAGGAAGAACC G GA GAA GAA C C G A G GA G A A C A G G G G G GCC G G A A G G G GAC G G A C A G A G G G G G A A G G G G A G A A A A G G G G A G G G A G A G A G G A GAAA A G T T G A C C A G AAGGAAGGGAGGACGGAAAGAGAAAAAAAAAGAAGAGGCCGG A A A A A A G G A G G G G G A A A GAGGGACAACAAACGGGGGACAGAA G GGGCAGGAAAAGGCCGGAAGGAAAGGAACGAGGAACAAAGA AACCGGGAAGCCGGGGGGAACAAAGGAACAAAGGGGGGAGAA ACAGAAGAAGAACCAGGGAAGGGGAAAAGGAGGAGAAGAGAA A G G A G A A $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAGGGAAAAGGGGAGAACAGGAAAGAAGGGG
 G GAA A G GAACCCGAGGACGGAGGGGGGGGGAAAAAAGGTTAG AA $A \operatorname{GAA} \operatorname{A} G A G A C G G A A G G A C A G G A A A G G A A A A A G G G G G A G G G$ A A A A A A C CAC G G G G G GAGAAAACCCAAAGGAAA GAAAGAGAG GAAGAGAAGAAGCCAGAAGAGAACCCGAAAGAACAGCCGGCA $G G A A G G A A A A A G G A C A G A A A G G G G A G A C G A A G A A G G A A G G A G$
 $A C G G G G G G G A G G A C G G G G G G G G A A A A A A A A A G G G A G C C A A G A$ A G G G G A T T G G G A A A A G GAA A A A C CAAAAAA AAAA $A$ A G G GAA G G G G A A A A G G G G A GA $\mathrm{A} G \mathrm{G}$ GAAGACAAGAAAAAAGGGGCCG
$G C C A A A G G G A A A A C C A A A A A A G G A A G G G A G A C C C C A A C A A A$ C CAACCAA G GAGGATAAAAAGGGGAAAAAAAAGAGAGGAGAA AGGAAGGAAACCGGGGAACCAAAGAACCGGGAAAGACCAAGB ACGAAGAAGGACGAGCAAAGAAGGAAGGGGGGAAAGAAAAGA A G GA $\operatorname{l}$ A $\operatorname{A} A C A G A G G G G A A A G G A A A G G G G C C A A A G G A G A G A G A$ GAGATACAGGGGCCAGGAAAGGACGGAACCGAGGGGAAGAAA A GAA $A \operatorname{GGG} \operatorname{G} A A G G G A G G G G G A A G A A A A A A G A A C A G A A A A G A A G$ GAAGACAAGAGAAGGAGAGAGGAAAAAAAGGGAGGACGAAAA A A G GAAAAGGAACGAGGAGAGGAAAAAAAAAGGGAAAAGAAA
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 GGGACCCCCCAAGGAAAACCGGAAAAGGGGGGGAAAGGAGAG

C C G G G G G G A GAACCGGAAGGAAAAGGACAAAACAAGGGTTGG G G G A A GAC G GAGCCAC G GAA A A G GACAAAAAGAGACCGGGGGG $G G C C A A G G G G A A A G A A G G G A A A G A A A A C A A A A G G A A G A G G G G$ GAGGAGACGGAAGGGAGGGGAGAGAACCGGAACCAAGGGGAG G G GA $\operatorname{A} G C C A A G G A A G G G G A A G G G G G G C C A A G G G G G G A G G A G G$ G G GAACCCAGGGGAGCGGGGGGAGAAGACCGGCCAAAAAAAA GAGACAACGGCCCCGGGGGAGGGGGGCCGGACAAAAGGGGCC AACCAAGGAGGGAACCGGGGACGAGAGAACGGGAGACCAGCA AC G G G G A A A A G G G G A A G G G G C A A G A A G G G A A A A G A G A A G G G A G G G A A GAGAAGGGGGATTAGGGAGAAGGAAGGGGGGAAAAGA G G G GAAAAAGAAAAGGACGAGGAACCAACCGGAGGGAAGAGG C C A G G GAACAGGGGAGGGAAGAAGGGGAGGGACAGAAGAAAG GACAGAAGAGCCAGGGAAAGGGTTAGACAGAACCGAGGAGAG
 A GAGGGGGAAGGCACCGAAAAGCCCAGGGGCCAGACAAAGCC AAAGACAGCCAAGACCGAGGCACAGGAGGAGGGGAAGAGGAG ACATAGAAGGAAAACCAGAAGGAGACAAGGCAAGCCAAAA G G GACCGGGGAAAAAAGAGGGAAAAAGAAGAAAGGGAGCAGAAG GAAAAGAGAAGAAGACGGGGAACCAAGGAAAGAAAAAGAAAA AGAACCCCCCGGAAACACAGAGAGAAGGGGAGGGGGAAAAGA $C C A G A G G G A A A A G G A C A G A A C C G G A A G G A A A G C C A G G A G A A A$ A A G G G G G A G G GAGGGGACAGAAGGGGGAGAGAGAGAGAAAAG A G G A G G G G A A G A A C G A G G A A G G G G G A G G G G A G G G A C A A G G A C

 G GAGAA $A \operatorname{A} A A \operatorname{A} A C C A A A A G G G G G G G A G G A G G G A G G G A A A G A G$ AACAAGCAAGCAAAAAAAGGAGGAGGCCAAGGAGGAGAGGAA
 G G A A A A A A G G A A A A G G G G G G G G C C G G A A A A G G G A C C A G G G A A CCAGGGAAAAAAAAGGGGGGAAGGAAAGGGGAGAAAAACAAA A G G G G A A GCC $C$ G G G A A A $\mathcal{A} A G G G A G A A A A A G A G G G G G G A C A A A A$ A GAGAAAAAAGAGGAAAGGGGAAAACAAGAGGGGAAGAAAAA G G G G G G G G A A C C C C G G C C G G C A G G A A G GAACC G G C C G G G G A A A GCGGGACAGAGGAGGGGGAAGAAGGAGGGGGAAGGAAAAAA
 A G G A A A A A A A C A G G GAA $A \operatorname{AGGGAGGAAGGAGCCBAAGGGGGAG}$ A G GA $\operatorname{A} G C \subset A G G G C A G A G G G A G G A A G G G A G G G A G G G A A G G G G G$ GGCAGAAAAGAGAGGGGGGGAAAATACCCCGGAAAAGAGGAG A G G A A G G G G G G GAAAAACCCCCCAAAAAAGAAAGGACAACAAA
 AAAAAAGCAAGATTAACAAGAACAGAAAGGAGGAGAGAAAAA G G G G G G A G C A A G G G A A G G G G A A C C G G A A A A C A G G T T G G A A G G AAGAAGAAAAAAGAGGACAGACAGCAAAGAAAGAAAAAGGAC GAAAGGAAGGCCGGAAAAGGCCAAGGAGGGAAAGBAGGAGAA
 G G G G G G G G G G A A A A A A A A G A A G G G C C G G G G G G A GACACAC C C GAAGCCACCCAAAAAAGGCAAAAAAAAAGGGGGGCAAGGGGG C C A A A C G G A C A A G A G G A A G GAC G G G G G GAAGGCCA GAA G G C C TAAGAAGGGACCGGCCGAAAAAGAAAAAGGAAAGAAGGAGGG A A A A A A A ACCAGAGCCGGAAAAAAAAGGAGGGGGAGGGAGAG $A G G G G A G G A G G A A A G G A A G G C C G A A G A G G G A A G A A A G A A G A A$ G G G GAA A A C A A G G G G G GAA $A \operatorname{AAA} G G G G A G A A A A G G A A C C G A T A$ AC G G G G A A A A G GAA A A G G G G G G A G G G A A A A A A G A A A A A A A G G G G G G T TACAGCAGGAAAAGACCCCGAGGGGGGGGAACACAAC G G A A A ACCGAAACCAGGGAAAAGGTTACAAAAGAAGCAGAGG A A G A A A C C G G G GAGCCAGGGAAGACCGGGGGGGGAGGGAGAA A A A A G GAAAA $A \operatorname{AGGGGGCCAAGGAAGGAAACGGAACAGAAAGG}$ $G G A A G C G G C A A G G G G A A G G C A C A A G G G G A A C A G A A G A A G A A A$ AAGGAGAGGGAAGAGGAACAGGAAAAAAAAACAAAAGGEGAA

G G GAGAGAAGGGGAAGGCCGGGGGGGAGAAAGGAGGGCCCA

 A A GAAAAAAAGGTTAAAAGGGGGGAAGGGGCAAAACGGAGAC G G G G G GATCCGAGAGGGGACAAAAAAAAAAAAAAGGCCAAAA T T G A A G G G G A A T A A C C G G C C G G A A G G G G A G G G A G G G G G G G G A GAAGGGGGGGAAGAGAAAGGAAAAAAAAAAGAAGAGGGAAAA $A G C C A G G G A A G G G G G A C A A A G G C A C C A G G A A G G G A A A G A A A C$ G GAA A GAA $A \operatorname{AA} A A A G G G G G A A G G C C G G A G A A A G A G G A G G A A A A$ GAAAGGAGGGACAAAAAAAACCAGAACCGGGGAAAAAGAGGG G GAAAGGGAAGGGAGGAAGGAGGAAGGGAAGGAACCAAAGAG A A A A A GCAAAAAGAAAGGAGAAGGCCAGAAGACCAGAAGGGG G G G G G G G G G G A A C A A G G A G GA G G G A GAGAAGGCCA GAAAAA $A$ GAGGACCCCCCCGGGGGGAGGGGGCCGAGACAGGGAAAGGGG A G G G GA $\operatorname{AGA}$ G G GCGGAACACAACAAGAGGGAGGGGGAAGAAA AAAAGGAAGGAAAAGGGGCCGGGGAAGGAAGGAGAGAAAAGA A G G G G A C C G G A A G G G G G A G G A A G G A A A G A A G G G A A G A C A G G G AAAGAAAACCGGAAGAGGAAAAGGGGAAGGCCGAAGGGAGGG G G G GAAAA $A \operatorname{A} G \mathrm{G} A A A A G T A A C A C A A G G A A A A G G G G G A G A G G G G$ AACCGGAACCAAAAGGAACCAAAAAAAAGGGGGGAAGAAAAA G GAAAAAAGGGGAAGGGGGGGGGGGGAAAAAGAAAACCGACA A GCCAAAAGGAGAAAGGAGAGGAAAGAAAAAACCGAGAACAA C C G GCCACAA GAAGGAGGGAAGAGAACCAGAGGGGGGGGGCC G G G G C C A A A A A G A G A A G G A A G G A A G G G G A A C C A G A A A A G G G G
 CAA A G G G G A GAAAAAAAAGGGGGAGGGGAACCGGAGGAGGCC A GAAAGGAAGAAAAGGAAGAGGAAGGAACAAAAAGGCCAGAG A A A A A A A A A GAGGGAGGGAAGGGGAAGGCCAGACAGGGAAGBG G GAA A G G G GAGAAAAAAAGAACAGCCGGCCAAAAGGACGGCC A G G A A A A A A GAGC CAA $A \operatorname{AGGGAGGGAAGGGGAAAAGAAGAGAG}$ GACAAAGGGAAGCCAAGGAAGGGGAGAGGAGGAGGGGAAAAA G G GAGAGGGAAGGGGGCCGAGGGAAACCAGAGGGAAGGGAGG G GAGGAGGAGAAGGAGGGAAGGAAAAAAAAGGAAAAAAAACC A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} C \mathrm{C} A \mathrm{~A} A A A A A A C G G C C G G G G A A A$
AGGAGGAAAAAGAGAAAAAAAGGAAGGACAACCGGAAGAAA
 G GAAGGCCGGAAGGGAAGGGGGAGGGGGGAAAGAAGGAGAAA GAGGAGGGGAGGAGAAAGGAAGGGAGAAAAGGGGAAAAGGCA A A A A G G G GCCCCCCGGGGCAAGGGGAAGACAGGAA GAA GAG G
 AAAGGGAAAGACAGAGAGAGAGAGAAAGGAGAGGGGAGAGAA C CAA $A \operatorname{A} A G A G A A A G A A G G A A A A A A G G A G G A A A A G A T A G A G G G$ G G G GAA A GAGAAACGGAAGGGGGGAAAAAGAAAAGGCACAAA G G G GCCAACCAAAAGGGGGGAGCCGGGACCCCAGGGGGAAGA C A G G A G A A G G A G A A A G T T A A G G G G G G A A A GAA A A A G G G G G T T G G G G A A A C G G G GAA $A \operatorname{G} G A G G G A G A A A G G G A A G A A G G A G G G G A G$
 G GCCGGAAGGAGAGCCGGCCAGAGGAGGGAAGAAAAGGGGAA $C \subset A G A A A A G A G G A C G G C C G A C C G G A G A A A A G G A G G A A G G G G A$ A GAGAGAACCAGGGAGGAGGAAGAGGGGAGGAGAAGAACCBG G GAAAACCGGGAAGGGAGAGGGGAGAAGGGAAGGGAAATAAG
 A G A G C A A G G A G A G A GAGAGGGGAAAAAAAAGGAAGAAAAAAC G G G G G G G GCCGAGGCCGAAGGAGAGGAAACGAGGAGGAAAGA G GACCCGGAAGGAAGGGGAAGGGGAAAAGGGGGGGGGAAAAA A A A A A A A A G G G GAA A G A A A A G G G G G GAACCGGAGGA GAAC GA GA $A \operatorname{GAA} A G G G A A A A G A G G G G A A A A G A A G A G A G A G A A A A A G A G$ A G C A A G A G G G A G A A G A A A G G G G A A A A A GAAACA A A CAAAA G G A GAA A GCCGGGACCAGCAAAAGAAAAGGCCAGAAGAGGAGGG

AAAGACAGCCGGGGCAGGGAGGAAGGAACAGAGGCCGGAAAC A A A A A GA G A A A A A A A A G GAA $A \operatorname{GGGAT} T A A A A G G G G A G A G A A C A$
 GGAAAAAAGGCCGGAGGACCGGAAAGAGGGACGGAGAGAGGG A G GAAA A G G GAACAAGAGGAGGAAGGAAGGAAGGAACCACAAA $A C C C A G A A A G G G G G A A A A A A C C A G A A G A A G A A A A A G G A G G A G$ A A G A G A A A G G G G G G G A G G G G G G A A G G C C G G A A G G G G G A G G A A AAGGAAACCAAAAAAAAAGGAGGGCCACAAGGGGACCACCAA ACAAAAGGAAGACACAGAAGGGAGAAAAAAGGAAGGAGACAG AAGGAAAATTAAAAGGGGGGAGCCCCGGAAGGAAAGAAGGAG GAA A A GAA $A \operatorname{G} G \mathrm{G}$ GAGGAAAAAGGAAAAGGGGAACCAAAGGGGG G GAA $A \operatorname{GCA} A A A G G A G A A A A A A A G G G G G G A A A G G A G G A A A C B G$ C CAAAAGGAACCCCAGGGCAACGAAAGGAAAAAACCGGAAGG G G G GA G G A G G A A G G G G C A A A A A GA G GAA A A C C C C A A G G G G G G G G G GAAAAAAAAGGCCCAGAAGGAGGAAAAAAAAGGGGGAGA
 A GAA $A \operatorname{A} A A G G G G G G G G A A C C G G A A C G G A G G G G C A G G A G A A G G$ C CAA $\operatorname{C}$ G GACCAAGGAAAACCGGAAAAGAAACGCGGGGAAAAA AAGGGGGGAAAAAAAGAAGGAAAGGGACGGAAAAAGGAAGAA G GAAA A A A G GAGAAAGGGAGGAAAGGAGGAAGAAGAAAAGGG G GAAGAGACAAGGGGGAAGGAAAGCCGAACAGAGGGAAGGGG AACCAAGGGGAAAGAAGGGAAAGAGGCCGGAAAAAAGGGGCA A G GAGGAAGGCCAACCCCAAGAGGAGGGGAGAGAAGAAGGAG AACAGGCAAAGGGGAAAGAGGGAAGGAAAAGGCCGGGABAAA
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 $A G G G A A G A C C G G A G C C G A A G A C A A C C A A A G G G G G G G A G C A G A$

G G G G A A A A A A G GAAAAAAAAGGGGAAGGAAGGAAGGAAAAAA G G G G A A C C A A G G G G G G A A G G G G G G G G A A G G G G G G A A A A A A $G G$ AAAAAAGGGGAAAAAAGGAAGGAAAAGGGGAAAAAAGGAGAA G G G G G G G G G G G G G G A A G G G G A A A A A A A A G GC C G GA GAAAA A A G GAAAAAGGGGAGAGGGGCCGGGGGAAACCGGAGGGAAAGCC
 G GAAAGGACCAGGGCCGAGGAATTGGAGGGGAA$G G A G G G G G G$ CCCAAAGGAGAGCCAAAAACAGAAGGCAAAGAGAAGAGACGG GAGGAGAAAAGGAGCACCGGAAGGAAGGGGGGGGAGCAAAAG $C C G G G G G G A G G G A A A A A A G G G A A A G G G G G G A A A A G A A G G G C C$ GGCCAAAGAGAAGGAAGGGAAACCAACCAAAGGGGCGAAAAA AAGGAGGGTTAGAGCCGACCACGGAGAAAAGGAGGAAGAGAG A G GA $\operatorname{A} A C C G G G G G A A G A G G A C C A A G G G A G G C A G A A G G B C A A G$ $G G C A A G A A G G G G G A G G A T A G A A G A G A A A G A T A A G A G G G A G G A$ AAAAAGCCGGGGAGGGGGGGGAGGGGGACAAAAGAGCAGGAT ACAAGGGGACAAGGACAGAGGGGGGGGAGGGGAAAAAAAAAA A A G G A A A A A GAAGGGCAAAGGACAGGGGGGATAAAACAAAAG A A G G G G G G G G G A G A A A A G G G G G A A A A A A A C G G G GCC G G A GAA AAAAAAAGGGAAAAGGAGAAGGGACCGGCCAGCACCGAAGAG G G A A A A A A A A G G G G G GAG G G G G G A A A A A A G G G A G G G G G A G G G A ACGGGAAGGCAAATTCAAGAGGGGACCGCAGGAGACAAAAA G G G G G G G G G G G G G G A A A A G GAACCAAGGAAGGAA G GAA G G C C A $A A G G A A A A G G A A G G G G G G A A G G G G G G G G A A G G G G A A G G A G A A$ G GAAGGAAGGCCCCGGGGAAGGGGGGAAAAGGAACCAAAAAA G GAAGGCCGGAAGGCCAAAACCAAAAAAAAGGGGCCAAAAAA G GAAGGGGAAGGGGGGGGAAGGAAGGGGGGAAAAAACCGAAA A A G GAGGGGAAAAAAAGAGGAGAGAAGGAGCACCACGGGGGG

 AAGGGGGAGAGAAAAAAACCGACAAGAAAAGGGGGGAAGGAA
 G G G G GA A A G G G A GAACGGGGGAGGAGAGCAGAGAAGGGAAAG GAGGCCAAGAGAAAAAGGACGGAAAAGGGAAACAAAGGCAAA G G GAGCAC $\mathcal{A} A A G C C G G A G G G G C A A G G G A A G A C A G G G C$
AACAAAGGAAAGGGGGGAGACAGAGAAGGACGAAAGGGGAC A GAGAGACGGAAAGGAGGAGGAAGGAAGGGGGGAGGCAAAAG AACAGAGGAAAGGGGGAGGGGGGGGGAGAAAGAAGGAAGAAA GAGACCAAGAAGGGAGAGAGAAGGAAGGAAGGCCAAGAAAGA G GAGAGCCAAAGAAGGCAAACAAAGGAGAAAACCCCCCAAAG A A G G A A A A A A G GAAAAGGGGAAAAGGGGAAAAAAAAAAAAAA $G G A A G G G G A A A A G G A A A A G G G G A A A A C C A A A A G G A A A A G G G G$ G GAAAAGGAAGGGGAACCAAAAGGAAAAGGAAGGGGAAGGGG G G G GAAAAAAGGGGAAGGGGGGGGAAAAGGAAGGAAGGACAA GAACAAACGAAGAAGGCCGAGGAGGGGGGGAGGGCCGGAGAG A A A GA $A$ A $\operatorname{A} G \subset G A G A G A A G G G A A A A A A G G G G G G A G G G G C G G G G$ $G G A G A A A G A G A G G G G G A A G G G G C C A A A A A A A A A G G G A A G G G G$ ACAAGGAGCCAGGAAGCAAAAGGGAAGAAAGAGAAGGGAGGA A G G GAGGAACAGGGAAGGGGAAAAGGCCAAAACCCCAAAAGG G G G GAA $A \operatorname{GAA} G \mathrm{~A}$ G GAAAAGGAAAAAGAGGAAGCACACAACAC G GAA $A \operatorname{GAAAAAGGGGCCAAAAAAAAGGGGAAAAAACCCCCCBG}$ A A G G A A G G A A A A G G G G A GAACAAAGGAGAGGGGGAGGAAAA G C C C C G GAAAAAACCGGGGGGAGAGGGGAAGAGGGGGGGAAAAG
 GAGGGGAAGGGGAAGGGAAAGGAAGGAAGGAAAAAAGGGAAA C CAA $A \operatorname{AGGGGGGCCAAGGGGAAAACCAAAAAAAAAAAAAAAA}$ A A G G A A A A A A G G G G A A A A G GAA $A \operatorname{GGGTTTTTAACCGGGGCCGG}$ GGAAGGCCAAAAAACCGGCCGGAAGGAACCAAGGAAGGGGCC GGAAAACCAAAACCGGAAAAAAAACCGGCCAAAAAGGAAAAG $A \subset A G G A A G C A G G G A C C G G C C A A G G A A A A A G A G G G A A A A G G T T$

G GAACCAAGGAAAAAAAGAAACGAGGGAGGGAAACCAAGAAA
 A A A A A A A A GACAAAGGCCTAAAAGGAGAAAACGGAAGGAGGG C C G G G GAGAAAAATGGAGACAAGGGGCAAAAACCGGCAGAAA A GCAAAAAAAAAAGCAAAAAGAGAGGGGGGAAACAGAGATTT
 GAGAGGTAAGAACCGAAGCCGAGGCCAAAGAAAAAGGCBAGG G G GAGGAAACAAAGGGAAGGAAGAGGAAAGAGAAGGAAGGGG GAAAGACCAGGAGAAGGGCCGGAGAAAGGGAAAAAAAAAAAA GGGGCCCCGGAAGGAAGGAACCAAAAAAGGCCCCGGAAAAAA
 T TCCGGAAGGAATTAAGGAAAACCAAGGGGAAGGAAGAAAAA A A G G A A G G A A G G G G G G G G G G A A A A G GCCGGAAAA G G C CAAAA A A A A A A A A A G GAAGGGGAAGGAAAAAAAAGGGGCCGAAAAA G G $A$ A A G G A A G G A A G GCC C G G G G G G G G A A A A A A G GAA A GAAAA G G A A G G G GAA $A \operatorname{GGGA} A A A G G G G A A A A G G G G G G A A C C A A C C G G A G A A$ G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG $C \subset C \subset A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G A A A G G$ AA $\operatorname{G} G A A A A G G A A A A G G G C C C C A A A A G G G G G G G A A C C A A A A$ AA $A G A A A A A G G G A A A A A A A A A A G G C C G G G G G G G A A G G A A A A$ C C G G A A G G G G A A C C A A A A G G G G A A G G G G G G G G G G G G C C G G A A A A G GAAAAGGGGGGAAGGCCCCAAGGCCCCGGAAGGAAGGGG AAGGGGAAAAAAGGAAAAAAAACCAAAAAAAAAGAGAAAA GA
 C C A GAGGGAAAAGGAACCAAGGCCAAGGAAAGGGGAAAAA G G A A G GAAGGAAGGGGGGAGAGCCAGGGGGACGAGAAAAAGGGG GAAAGAAGAAAAATAAGGGGGGAAAAGGATCAGAAAGAACAA A A G GAA A A A ACCAACCTAAAGGAGGGCCAAAAAAGGAACCGG G G G GCATTGGAAAAAAACGCACGAGGGAGGAACAAAAGGGTT AACCAACCAAAACAGGAGAGAAAGGGGGCAGGAGGGAAGGAA A A A A A G G G A A G A A G G G A CAGGAAGGGAGGAGGAAAGCAAGCC AAGGGGAAGGGGGGCCAGGAACAGGAAAAAGCAAGGAGAAAA G GTAAAGAGACACATAAAAAGAAGGAGAAAAAACAAGBAGAA A GTACACAGGCCAACAAACAAGCCGGGAAGGAATAAAAAGBA A A A A G G G G A A G A G G G G G G G GCCCCGGCGAAGGGGCCAACA G G G GAGCCAAAAGGAAAACAGGGGGGAAACACAAAGGACCAGAG G GAAACGGAGGGGAGGGGAGAAAAAGAGAAGGGGGGGAGGGG AAAACAAACCGAACAGGGAAGAAGAAATGGGGAAGGAGAGCC G G G G A GCCACAGGGAGGGGAAAGAAGAACCGGAAAGGAAGAA $A G G G G G G G A C G G A A A A G G A A A G G A G A G G G A G A G G A G A A G G G G$ $C C G G G A G G G A G G A G G G G A A G G A G A G G C C C A G G A A G G A A G G G G$ A A A A A A A G GAA $A$ GAGGACCAAAGAGGAGGAAGGAAAGGGAAGA AAGAGAAGGGAACACCGGAGGGACGGAAGGAAAAGACAAGGG A A G G G G GAGGACGGGGCACCAAACAGGGAAAGGAAGGAAGAC
 A A A A A A G GCGCACCGGAGCCGGGGAGAAGGGAGAGGGACCGG A GAACAAAAAGAAAGAAACAGGAGGGAGGGCACAAAAAAACC G G T TC CAA G GACGGAGCCGAAAGGGGACAAGGCCGGAAGGGA C CAA $A \operatorname{GCA} C \subset G G A A A G A G G G G G A A A A A T C C G A G G G G A A A A A A$ A A G A T A G G G G A A GAAAGCAAAGAGGACAGAACGGGGAGAA GA G G G GAAACGACCAGAGAAGGGGAGAAGAGAACACGGAGAAGA A A G G G A A G A GAGGGGGGGAAAGGGGGAACCCAAGGAAGAGA G $A G C C G G G G G G A A G G A C G A C A G G A A A A C C G A G A C C A G G G G G G A$ GACCAAGAGAACACAGCAACCAGGGGAGAGGGGGGGGGAAGG G GAGAGAGCCGGAAAAGGAAGAGGCCGGCCGGGGGGGAAGAA G GAAGAAAGGAAGAGAGGGGAAAAGGCAAGGGGGAAAAAAAA AAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGGGAAGAAGAA A G G A A GCAGAGGGGCGCAGGCCAGAAAGAAAGAGAGACACAB AAAAAGGGAACCGGAAAGACAAAGGAACAGGGAAAGGGAAGA

G G G GAGAGAAAAAGAAAACCAAGGGACCGGGAGGCCCCGGGA C C G A A GAAAAAGACAGCCAAGGAAGGGGACGAAAGAGGAAGG ACAAGGAGAGAAAAAAAGAGGGGGAAGGCCAGCAAAAA GAAA AAGGAAGGAAAAGGAAGGAGACAAGGGGCCAAGGAAAAGGAA AACCAAAACCCCCCAAAAAAAAGGAAGGGGAAGGGGAAAAGA G GAA $A \operatorname{GAA} A A G G G G A A G G G G A A A A A A A A G G A C A A G G A A G G A A$ AAGGCCGGAGCCAAAAAAAAAGAAGAGAGGGAAATTGAAGAG $G G A A G A A A G G G G G A A G G A C A G G A A A A G A A G A G A C A A A A A G A A$ C CAGAGCAGAAGAACAAGAGGGAAGAGGAAAAAAGAAAGAAG AGCCGGGGAGGAGGGGCCAAAAAAGGCCGGAACCAACCAAAA A GAGAAAGGAAGAACAGAGGAAGGCCAGAGAGAAAAAGAAGG GA $A \operatorname{GGG} \operatorname{GA} A A G G C G G A A A A G G G G G A C A G A G G G G A A G A G A A C B A$ GAGGCCAGGGAGGGGGGGAAGGAGCAAGTTGGAAAAGGAAGA A G GAGAAGAGAACCGGAAGGGAAAGAGGAAAGCCAGAGAAAG G GACAGAGAAAAGGCCAAGGAGAGGAAGTAAAGAAGAAAAGA CAAACCAGGGAAAAAAGGGAAAAGGAAGGGAAGGAAGAAAAA C CAA $A \operatorname{GGGA} G C A G G G A C A A G G A G G C A A A G G A A G G G G A G A G A A$ G GAGCCGAACAAGGAAAAAAAAGAGGGGGACACAAAGGAGBA $G G A G A G C G A G G G G G G G G G G G G G G G A A G A C A A A G G A A C C A A G A$ G G GA G CAGAGAGGCGGAAAAAAAGGAGGAAGGACGAGGAAGA AAGAAACCACGGGGAGGGAAGGACACGAGACACCCAAGTTGG
 GA $A \operatorname{GT} T A A C C G G G G G G A A A A G G G G C C G G G G A G A A G G G G A A G B$ $A G C C A A G A A A G G G G G G G G G A A G G G G G A G G G G A A A G A C A A A G G$
 A G GAGAGGAAGGGGGGGGGGGGCCGGAACCGGAAAAAAGAAA AAAAAAGGAAAAAAGGAACCCCAAAATTCCGACCGGGGAAAA
 AAACGAAAAGGGCAAACAAAAAAGAAAAGAAAGGAGGGAGAA GAAAACGGCCAAATGAAAGACAGCAAGAGGCGGGAAGGAAAA C C A A C C G GCCAA G GCC G GAAAAAAAGGAAACCAAAAGG G GAG AACACACAGAAAAAAAGAGGAGAAGAAAGGCAGGAAAAGGAC GAGGAGACCCAGAAAAGGGGGCAAGGGGAAAAAGGGAAAAGA G GCCGGGAAAAAGGGGGGAGGAGGGAGGAGCCAAAAG
 CAGAAAAAAAAAAGAGAAAAAGCCGGGGGAGAGACCGAAAGG A GAGAAGAGGGGGGAAATACAAGGAAAGGAATGGAAGGAACC A A A A A A A A G G G GAA $A \operatorname{GA} A G G A A G G G G A A G G A A A A A A A A G G A G$ C CA A G G G GCC G G GAAAGACAGGGGGAAGCCAGAAAGACAGGC G G A A A A G G CAA A A A A C CAA A GAAA A A G G G G GACC GA G CA G C C AAACCCACGGCAAGACGGGGAAGGAGAAAACCACGACAAGAG $G G C C A A A A C A A G A G G G A A G G G C A A C G G G A T A A A G G G C A C C G G$ AGGGAGAAAACCAGAAAAAGGGGAAGCAAGAGAGGGCCAACC G G A A G G G G G G G A A G A G A GAATTAGAAAAGGAAGGGGGGCAAA G GAAAGCCAGAGGGAAGGGGAGCCACGAAGGAAGGAAGACGG C CAGGGACAGAACAAGGAAAGAAGGAAACCAAAGAAGGAGA G C CAA A G G GAGGGGGGGGGGAAGAAGGAACCGGGGAAAAAGAA C C G GAAAAGGCACAGGAAGAGAAGGGGGAGGGAAGAAGAGAG A G GAA $A \operatorname{GGAA} C \subset G G A A A G C C C C G G A C A C G G A G G G A C G G G G C A$ G GCAGACCAAGAGAGGCCAAGGCCAGAAGGAAAGGGGAAAGA A A A A A C G G A GCCA $C$ CAAGGGGAAGGACGGGGAAAACCAAAGAC AC GACCGAGGGGGGAACCGGGGAGGAGAACAGAAGGGGAAAA A A C C G G A A A A A A G G G G G G A A A A G G G A A A A A A A C C G G G G G A G G AA $A G G G A C A A A G G G G G A A A A G G G G G G G A G G G A C C G G A G A A A A$ A A A A G G G G G G G A G G A A C C G G A GAC $\mathcal{A} G G G A A G G G G A A A A G G G G$ G G A A A G G G A G G G G G G G A G G G G G C C G G A C A G G G G G A G A G G G A G A GAGAAAAGGGGGAAGGGGAGAAGGGGGAACCAGGAGACGAA GAAACCTTGAGAGGCCAGGGGAGGAAGGGGAAAAAGAGGGCC $G G A A G G G G G G A G A A A A G G C C G G A G A A A G G G A G A G G A G A A G A A$

AA G G G GAA A A G G GAAGGAGAACAACCGAAACCGGGGCAGAAA GAGGGAAGAAAAGAGGAAAAGGATGAAGAAAAGAAAAAGGCC CC G GAAAGAAAGAGGGAACAGGGGGGAAGGGGAAGGGGAGAA AGGAAAAAGGGGGACGAAAAACAGACAAAAGGGGAGAAGACC AAAAAAGGACAGAAAAGGAAAAGGCAAAAAAAGGAGGGAGTT A G G G G GAAAGAATTAACCGGGGAACCAAAAGGAAGGAAAAAA A A G G A G G G G A A GAGGGAGCCCCGGAGCCGACACAGAAAGGAG CCGGCAAACCCAGCAGAACAGGCATTGAAACCAAAGACAGAG A G A A A A A G A G A G G G A A G G G G C C G G A A G G G G A A G A G A G G A A A G $A C C A A G A A C C G G A A G G G A G G G G G G A A A A A A C C G G G G A A G A A G$ A G GAA A G G G G A A G GAA A GAAAAGGAACCAAAAGGGGAA G GAA
 A G T T G A A G A GAGGGGAGGAAGGAAGGAGGAGGAAAAGAAGAA CAGGAAAAGGCCAGAGCAAAGAAGCCCCGGAAGAAACAAAAG CAAA A A A A GAA A A A GGAGAAAAGAGGGGGGGGAAAGAAACAG A G GACAAAGGGGGGGGAAGGGGAAGGGGAAAAGGAAAGAAAA A ATTAGAGCCACCAAGGGACGGGGCAGGACAGGGGAACAAAA AAAGGGGGAAGGGAGCGACCAGAAAAAAGAAAAAAAAAAAAG GGCACCAAACGAGGGAAGAAGGCCAAAAGGAGGGGATAAAGG G G A A G G G G A A G A A G G G G A A A A A A G G G C C G GAGAAAAAAA A A G AAGGAGAGCACAGAAGAGGGAGGGAAAGGGGGAAAACCCCGA G G G GAAAACCGGCCCCGGAAGAAAAAAAAAAAAAGGAAGGGG
 $A A C C G A A G G G A A G G G G G G G G G G G G A G A A G G A C A G A G G G A G A A$ G G G A A GAACACAAAAAAAGGCCGGGAAAGAAATTGGGGAAAA G G G G GAGGAAAAGAGAAAGGCCGGCCAGGGACAAACAACAAA AAAAGGAAAGGGAAGGAGGAGGAGGGAATTGGACCACAAAAG A A GAAAAAAAGGTTGGCCGGAAAAAAAAAAGGAATTCCAAGA A A G G A A G G A A G GAGGCAAGGCCCCAACCGGGGAGAAAAGGGG CCAAGGAAGGAAAAAAAACCAACCAAAAAAGAAAGGAAAAGA T TAAGGAAAAAGCCGAAAAAGGCCAAAGGAGGGGAAGCCCGG ATGAAAGAGAGGACGGGGAGGGAGGAGGAGACGGAAGAGAAA A A GAA A G G GAAAAAAAAAAAGGGAAAGAAGGGCCGGGAGGAA $G G C C A A C A A A A G A G G G G G G G A A G A G G T T C A G G A C A A G A A A A A$ AA $A G A A C C A G A A A A A A C A G G G G G G G G A G A G G G A G G G C C C C B G$ A G GAGGCCCCAAGGAACCAAAAAAGGGGGAAGGAGGGGAAAAA G GAA A A G G GAAAGGGAGAAAATAGGGGGAAAGAGAAGGGAAA G G G GAA A GAGACGGCCGGAGCAAGAAGGAAAAAAAAAGGGGA A G GAGAACGGACAAAACCCCACGGCCCCAGCCAAGGAAGGAA GACCAGGAGGAAAAAGAGGGAAGGAGAGAAGGGGAACAAGAG G G G GAAAAAGCCGAAAAAGGAAGGAGCAAGAGGGGGAGAAAA A A G G A A A A A A G G G G C C A A G G A G G G G A A G G G G G G A A G A A G G G G AAAGGAAACGAGAGGGGGGGAAGGGGCAGGAAAGAAAAGAAG
 G G A A C C A A G G A A G A G G A GAGAAGGAAGAAGAAAGAGGAAA G G
 $A A G G G G A A G G A G G G A A G G G G A A G G G G A G G A A C G G A G G A A A G G$
 GAGGGAGGGGGAGGAAGAAGGGGGGGAACGCCGGGGGGAGAA AAAAGGGGCCAAAAGGAGAAGAGAGGGGAAATCCAAAAGGAA A A G GCCGGGGGGGGAAGGGGAAAAGGAAGGAAGGAAGGGGAA A GACAAGGAAGAAAAAAAAAGGCCAGAAGAGGAAAAGAAACC G G G GAGAAGGAGCAAAGAGAAGGGAAAGAGAACACCAAGGGA AGGAAGGGGGAGAGGGAAGGAGAAGAAAGGGGAGAAAAGGGG A A GAGGAAGGGAAGCAAAGGGAGGTAAGCCAGCCBAGGAGAA AAA A A A G G G G A A A A A A G G GAACAGAACCAACAAGAGGGGGAA G GAAAAGAAGCCGAGAGGGAGGGAGAGGGAGAAACCTXAAGG A A A A G A A A G G A GAGGAAAGAACAAAGGGGGCAGAAAGCAGAC AAAAGGAAGAAGGGAGGGGGGAAGAGCAGGGAGAAAAGAGAA

A A A G G A GACAAGGAAGAAGGGGAAGGGGACGCGCAACCAAAA

 $C \subset G G A A A A A A C C G G G G G A A C A G A A A A A A A A C C A A A A G A C C A G$ G G T T GACC GAGAGGAAGGGAAGAGAAAAGGAAAAAAGGCGCC A A A A A A T TAAGGAGGGGAAAAAAAGAGGAAGGAACCAAAA GA GAGGAAGGAGAAGAAGGGCCGAGACCAAGAACAAAGCGAGAA G G G GAA A G G GAA $A \operatorname{A} G G G A A G A G G G G G G G A G A C C G G G G A A G G G A$ TACAAAAAGAGGGGGGGGGGAAGGGAGAAGGGAGGAAGAGCC AACCGGGGCAGGAGGAAAGAAGAGAGGGAAAGGAGGCCBGAAA G GAGAAGAAGAAGGAAAACAAGGGGGGGAGAAAGCCGEACAG A GAGAGAAAAAAGGGAAGAGGAACAGAAGGCAGAAACAGAGG A A A C A G G G G G A A G G G G A A A A C C G A A A GAAAGGGGCAAAAAAA A A G G G A C A G G A G G A C C G G A GAC G G G G G G G CAA G G G GACAA G G A GAAGGAGAGAAGAGGGGGGGAAAACACGGCAAAAAAGGAGG G G G GCAAA $A \operatorname{AGG} \operatorname{A} A A G G G G A A A A G G C C G G G A A A G G G G G A A A A G$ GAGGAGGGGGGGAAAAGAAAGGCAAGGGCCGGGGAACAAA GA GAGGAAGGCAGGAAGGACGGACAAAAGGGGCCCACCGAAAAA $A A C C G G C C C C G G A A G G A G A G G G A A A A G G A A G G G A G G G G A A A A$ G GAAACCCGGGGGAAAAAAAAAAGGGAAGAAGCCCAAGGGGA G G GAGGAGGAAACAGGAGGAAAAAAAGGTTGGAAGGGAGAGG
 G G G G A G A A G G A A GAACAACCGGAAGGACAAGAGAGGGCCCAG A A G G A A G G G G G G A A A G A A A A A A A A G G C CAAA A A A CAC CA $\mathcal{A} G G$ A $G G G A A G G G G C C A G G G C C G G A A G A A G G G G G G G G G A A G G G G G G$ AAAGAAAACCGGAGGGAAGGAGGAACAGAAAGAGAGAAGGGG G G GAGAAAAAAGAGGAAAATAGAAAAAGAAGAGAGAAA G GAAG A A A A A A G A G G A G G A A A $\mathcal{A} G G A G G G A G A A G G G A G G G G G A A G G A A$ A G GAGGAAGGCCGGAAAAGGGAAAGAGGAGGAAGAAAAAGAA AAACAAACGGGAAAAGAGGGGGGGAAGGCAAACCAACCAACC G GACGGGAGGAAACAGGAGGAAAAAAGGAAACAACCCCGGAG AAAACCGGGGGGAAAAAAGGGGGGGGAAAAAAAAGGAAGGAA $G G C C A A A A A A G G A A G G G G C C C C A A A A G G G G A A G G G G A A C C G G$ AACCGGAAAAGGAAGGGGGGAAAAAACCCCCCAAGGA
AAAGGAAGGCCAAGGGGAAGGAAAAAAGGAAGGAAGGGGGG1 A A G G G G G G G G A A G G A A G GAA $A \operatorname{AGGGGGGGCCAAGGCCAAGGAA}$ A A A G A A G G G G G GAA A A G G G G G G A A C C G G A A GAAAAAA A GAAA A A A A A GAGAAAAAGGGCCGAAGAAAAGGGGAAGGGAAAAAGA GAGAAAGAAAGAGGAAAGACCCGGAGAGGGAAAACCGAGAAB A GAG A G A G A A A C G A A A G G G G T A A G A G G G C C G A A A A A C C C A G A G G G G A G G A A A G G A A G A G G G G G A A G G G G G G G G G G G G G G G G A G G A GAGGAGGAAGAGAAAAAAGAGAAAAGGGAAAGGGAGACCGG GAGACCGGAGAAAGAAGAAGGGGGGGGGGGAAAAGAAGCCCC AA A GAAGGAACCGGGGGGCCAACCAAAAAAGGAAGGCCAAGA G G G G G G A A G G G G G G G G A A G G A A G G A A G G G G A A G G G G G C A A A A A G G G G A G G A A G G G A A G A A A C G G C C G GAAAAAA A A A G GA G GAC C
 G GAGGAAAGGAGGAGGCCGGAACCGGGGAAAAGGCCAGCAAA AAGACAAAGGAGGGGGAGAAAAGGGAAAGAGGACCAGAAAAG GAGGAAGGGAAAAGAGAGCAGAGGCCAAGAGAAAGAAGAAAA $G G C C A A A G G G A A A A A A A A A G G A A A G G A A A A A A G G A A G G A A G G$ AGACGGGGAAGGACAGAAAAAAAAAAAGCCAAAGCAAA G GAAA A A A A G G G G G A G A A A A A G G G A G G A A G GAGCCCCGGGGAAAAAA AAGAGAAGGGAAAAGGGGAAGAGAAAAAAAAACCGGAAGGGG A A G G G A A A A G A A G A A A G GC C A A G G G G G G G G A A G G A A G G G G G A C C C C C C G CAGAACAGAAAAGAAGAAAGGGGGGTTGGCCAACC G G C C A A A A A A G G G G A A $\mathcal{A} G G G G G A G A A G G A A A A A G G A A G G G G A$ G G G G G G A A A A C A A G A G G G G G G A GA $\operatorname{A} A A A A G G A G A A G G G G T X A A$ $A A G G A A A A G G C C A A G G A A A G A G A G A A G G A G G G A C G G C C A A G G$

C C A A A A G G G G G G G G G G A A A A A A G GAAAACATTGGAAGGGGGG G G G GAAAA $A \operatorname{A} A A A A A G G A A G G C C G G C C G G A A A A G G G G G G A A A A$ $A G A A A A G G G G G G A A A A A A A A G G C C G G G G G A A G A G G A C C A G A G$ ACGAAAACAGATAGAAGGGGAACCCAGGGGCCCCAACCGGGG A G G G G G GA G GAGAAAAGGAAGCAAGAGAGATTCCGGGAGAAA
 C C A A A A GACCAAGGGGAAAGCCAAAAAAAAAAGAAAGGAGAA A A G G G G G G G G GAGGGGGGAACAAAAACAGGAGAGAGCA GAG G
 G G GAGAGGAAGGGGAAGAGGAGAAAGGGGGGGGGGGAAGAAA G G A A A A A A A C CAAA A G G GTTGGACAAGGAAAACCCCAGAAAA G GCCAGAAAAAAGGCCCCGGAGCACCAGCCCCGGGGAAGAAA
 $G G A G A A A G A A G G G G A A G G G A A A G G G G G G G A G G G G G G A A G G A A$
 $C C G G C C G G A A A A A A C C C C G G G G G G T A G C G G G G G G A A C A A G G G$ G G G GAGGGGGAAAAAAAAGAGGAGGGAAAGAGAAGAAAGGAA AAAGCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGAAGG
 G G G GCCGGAAAGGGAAGGGGAAGGGAGAAGGGAGAGAAGGGA A G GAAGGGGAAAGGAAGGGAAGCCAAGGAAAAAGGGAACAAG G GAAACAGGGAAAGACGGAAACAAGGGGAAGAGACCGAGAAA GAAGAAGGGGAAAGCCAGACGGACAAAGGGAGAGACGGAGGA A A G A C A $\mathcal{A} A G G G G G G G G G G G G A A G G G G A G G G G G G G C A G G G G G G$

 GAAGAACCGGGGCCGGGGAAAAGGAAGGGGAAGGGGGAAAAA GAGGCCGGAGAAACCAGAAGAAGAAGAAGGCAAAGGAAGGAA GAAAAAGAGAGGAAGGGAGGAACCGACAGGACGAGGGAAAAG AGCCGACCAAGGGACAGAAAAAAAAAAAAGAACCGGAGGGGA A A G G G G A A G G A GCC $C$ G G G G G A G G G G G G C C C A G G A A C C G A A A A A AATTAGCCGGGGGGAAAAGAGGCCGGGGAAAGACCACACAAA A A G G G G A A A A A A G GAACCGGGGCCAAGGAAAGAAAATAAACC GAGGGGGGAGAAGGGAGGGGAAGGACGAAGAGAAGGAAGAGA GACCAACCAAGAGAAAAGAACAAGAGGGGGAAAGAGGACAAA A G A G G G A A G G A G A A G G A A C C A G G G A G A G C C G A G A A C G G G G G G A GAAAA A A G G G G G GCCAGGGAAGGCCAACCAAGGGGGGAGGG A GACGAAAAAGAAAAAGAAGAAGGGGGGACATCCGGAAAAAA
 G G G A C A A A A A G G G G G G G G G G G G A A A A GAAAA A $A$ A A A G G GAAA $A$ GGGAAAGAAAACCCAAAGAACCAAAAAAAGGGAGGAGAAAAC GAAGAGCAGAGAAGGGAGGGGGAAGAACAGGAAGAAAGAAGA G G G GCCCCGGGGGGAACCAAGGAAGGGGGGAAACGGAGAAGG A GACGGGAAGAACCGGGGGGCCAAGGGGAAAGAGAAGACAAA G G GAGGGGGAAGAAGGGAGAACGAAGAGAGGGGGAAGGAGAA GAAGAGAAACGAGGGGGGAAAGAGGAGAAAGGAAAAAAAAAA GA $\operatorname{G} A A A \operatorname{A} A G G A A G A A A A G G G G G G G G A A A A G A G G G G G A A A G A G$ AACCAGAAGAAGGGGGAGCCGGAGAAGGAAGGGGAAGAAAAA AA $\operatorname{A} G A A A A G A G G A A A A G G A G G G C C G G A A A A A G G G A A G A A A A G$ G G G G A G C A G G A G G A G A A A G G G A G G A A G G G G A A A A A A G A G G G G $G G A A A G A A G G G G G G C C A A G G A A A G A A G G G G A A G A A A A G A G A A$ G G G GAAAA AA GAAAGACCGGAAAGACAAAGAGGAGAAGAAGA GACCGGAGCAGGCAAGAAAACAAAGGGAGAGGAGGAAAAAAG AGCCGGGGAAAAAAGGAGAGGAAGAAAAGGGGGGGGAAGAAG A A G A G A A G A A G A G A G GCACCGGGGACGGAAAGAA GAGAGGGG G G G A A G A A A G G A A A G GAGCAGGAGGAAGAAAAAAAAGGAAA G
 G G G G G GCCAAAAAGGAAAAAACGGGGGGCAAGAGGGBAAACAC AAAGAACAGGAAAGAAGGGAAGGAGGAAAAGAGGAAAAGGGG

G G G GAA $A$ GAAGGAAGGAACCGGCCCCAAAAAAGGAAGGAAGA A A G G G GCCACAAGGGAGGAGGGGGAAGGAGGAGAAAGAAACC A A G G G G G GACA A A A C C G G G GAC $\mathcal{A} A C C G A A G A G G A A A A G G G G G$ A A G GAAAAGGAAGGCAAAGAGGAAAGGGGGGGAAGGGGAAAA A GAAAAGGAAATAAGGAAAGAAGAGGAGAAGAGAGAACAAAG ACAAGGGAGGAACCGGAGCCAAAAGAGGAAGGGGAGGGAAAA G G G G G A A G A C G GAC G G A A A A A GAC GAGGACAGGAAAGAAAA G G G G G A A T TAGGGC CAGGGGACCGGCACCAGGACCGGAGAGAA G G A A G A A A G G A A G G A G A C G A A G G G A A G GAACAA A A GACA A A G GAAAAACCAAAGAAAAAGGAACGAAACAACAAAAGGCAGAGAA
 GAGGGGGGGGAAGGAAAAGGGGGGGGAACCAGAAAACCAGGG A A A A A GAA A A G G A A A G G GAACAGGAAAAGGAAAGGGGGAGAA A A A G A A G G A GACG GAAAGGAAAGAGGGGGGAGCCGAGAAGAC G G G GCCGGAAGGGGCCAAGGCCACAGGGGGGGGGGGGAAAAA G G GAACAGCCGAGAGGGGGGAGAGGGGAGAAACCACAAAACAA
 $A C G G A A G G G G G G G G C C G A A A A A A A G G G A A A A A G A G G A G A A A C$ GAAAGACAGGGAAGGGGAAAAAGACAAGAGAGGAAAGGGGGG A A G A G G G G A A C C G G G A A G G G G G G G C C A G G A A A G G C C A A G G G G AAGAGGAAACAAAGGGCCAAGGAAGGACGGAAGGGGAGGGAC A A G GA $A \operatorname{G} G A G G G G G A A G A A G A G A A A G A A G G A A G A A A G A G G A A$ CA $A \operatorname{GA} A G G G G A G A A G G G G G G A G A A G G G G G G G G G G C A A C A A G G$
 A A A A G G G G G G A A G G G G G G A A G G G G A A GAGGCACAGACAAAC C C CAAAAGGAAACGGAAAAAGCCAGAGGAGAAGGAGEAAAAAA A A A A A A G GAAGGACGGGGAAGGGAAAGAAAAACCAACAAAAA A A G G G A A A $\mathcal{A} G G G G G A A G A G G G G A A G G G G A G A G G G A A A A G A C C$ GAAACACCAAAGGGAGGGGGGGAACCGGAGGGAACAGAGGAA G G G G GAGGAAAAAAGAGGAAAAGAGAAGAGCCGGGGCCAGAA G G G G A A A A A A G GCC G G G GAGAGAGAAGAGAAAAAA GAA GAAA GAAGGAAAAACAAAAACCCCAAAAAAGGAACCGGAAGGAAGA CAAA $A \operatorname{A} A A G G G G A G A A C C G G G A G A A A A A A A G G A A A G A G G G T T$

C G G G GAA $A \operatorname{GAAACACAAGGGAGAGAAAAAAGGAAACCAGGGG}$ A ACCCCAAA GAAACAGGAAAGGGGAAGGAAGGGGAAGGGGGG A G A G G G G G G G G G A A G G A A C A G G G G G G A GAGGGAA G G G G A A T T CAGGAGGAGGCAGACCAAAGGACAAAGGAACCAGAAAAAAGA A A A A A A G G G G A G A A A A G A A A A A A A GGCCAAAGAC GAAGACCA
 A A A A G G A A A A $\mathcal{A} G G G G G G G G G G G A A A A G G A A G G G G G A A A A A G G$ A A A A G A A G A A G A A G G A A A G G A A A A GAGGGGAACC GAGA GAAC $A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A G A A G G G G G G$ G G G G G G G A A G A C G A A G A GAGGAAGAGAGCCGGAGAGAGCAGA A A G GAGGGAAAAAAAGCCAGGAGAAAAGCCGGAGGGAGAAAA A A G G A G G G A G A G G G G G G A A C A A C C G G G A A A A GAC G GA G C A T A $A G G G C A A G G G G G A A G G G A A C G A G G A G C G G G G G A A G G A A G G C C$ GAAGGGGGGAGGAAAAAAAGAAAAAAGAGAAAACCGGAAGAA AAGGCCCCAGAGAAGGGGCCAGGAAGAGAAGGGGGGAAAAGA ACAGAAACGGAGGAAAAAAAGGGGGGGGGGACGGGGAGAGCC C C G GAGGGAAAAAACCGGCGAAAAAAAAGGGGAAAAAGACAA $A C G G A A A G G G G A A A A G G G G G G G A C G G C C G G G G G G A A G G A A A G$ G G G G A A G A A A G G G G A A G GACGGCCAAAAGGAAAAGGAAACAA A GAC A A GAGGGAAGGAGGGGGGGACCAGAACCGGAAGGAACC CAAACCAGCAACCAGGAAGGAACAAGGGGGACAAGGGACCGG GAAAGGACGGCCCCCCGGAAGGGGGGAAAAAAAACAGAAAGA GAGGCAAGAGAACCAACCAAGGAAAGGGAAGGGGAAAAGAAA $A C A A A A A A G G G G A A A A G G A A G G G A G G G G A G A A G A G A G A A A B A A$ G GAAAGGAAAGGGGAAAAGGCAAAGGAAAAAGGGGAGGGAGA

A A A A A G G G A A A A G GAAAGAGGGCCTAAAGGGGCCCCAGAGGA AACAGGAACCCCGGGGAAAAGAGAGGAGAAGGAGAAAAAGGG AGAACCAAAAGAGGAGAAAAAACCGGAACCAAAGAAGGAGGA A G G A A GAGGGGGGGAGGGAAAAAGAAGGGGAACACAAA GAAA ACGAGGAACCGGGGAAAAGGGAAGACGGAGGGGGGGAAACAA

 GAGGGGAGACGGAGCCCAGGTTAAGGGGAGAAGACAAAGGGG G GAACCAAGGCCAAAACAGGAGCCGGAACCCAGGGAGGGGAA AAGGAAAAAGGGGGGGGACAAAGGGGGGGGGGGGAAAGAGAA
 AA $\operatorname{A} G C C G G G G C C G G A A A A A A A A A A G G A A G G A G G G G G G A A A G A$ $G G G A A A A G G G A A G A G G G G A A C C G G G A G A A A A A G G G G G G G G G G$ A A G GAGGAAGCCCAAAGGGAGAGGGAGGGGAAGGGGAGAGAA GAAAAGAAGGAGAAAACCGGTTAGACCAGGGGAAGGAAAAAA $C \subset G A A A A A G G A A G A A A C C A A A A G G A A G G G G G G A A A A C A A G G G$ G GAAAAGAAAGGGGAGGAGGAAGAAGAGGGAGGGGAGECCGG AAAACCGGAGGAAAAGAGCAGGAGAAAAGGAAACBAACAAAC A G G G G G A A A G G A A A C CAAG GAAAAGGGAAAGGTTAAAACCAT A A G G A A A G A A A A C C C C G GAGAAAGCAAGTTAAAACACC G GAA G GAAAAGGCCGGAAAAACCCCCAACCAGAGAGAAAAGGGGAA
 C C G GAA A GAAGGAAAAGGAGCAAAGGAAAGGGCCACAAAAAG ACGGAGACAAAACCAACCAGGGAAGGAGAAACGGGGGGGGCC G G G G A A $\mathcal{G} G G G G G A A G G G G G G G A G A G G A A A A A A G A A G A A G G G G$ ACAAGCAGAGGGCCTTGGGGCACCCCCCAAAAAGAAAAAAGG AAAGAAAAAAAAGGAAGGCAACAGGAGGGGAAGGGAAGGGGG G G GAAAGGAAAAGGAGAGACCCAAGGCAGAAGGGCAAAAGAG A GAAGACAAAGGAAGGAGAGTTAAAAGAGACCCCGAACAAAA GACCAAGGAAGGGACCGAAGAGAGGGCCGGCCCAAAGAAACC $G G C C C C A A G G G G A A G C A A G G A G A A A G A A G G G A G A G G G G G G G G$ G GCAAGAGGACCGACAGGAAGGACGCCAAGGAAAGAAAGAAA $C \subset A C G A A A A A A A C C C G G A A G G C C G G C C A G G G A A G A A A A A A$ ACGAAGAGAAAAAAGGCAGGGGGAAAAGAAGAGGAAAAACAA GACGTAAAGGAAGGGGGAAGAAGGGGGGAAAACAAAAAAGAG $G G A G A G A A A A A A A G G A G G G A A A G G A A A A G G G G G G G A A A G G G A$ $A C G A C A G G C A A G G G G A G A A A A G G G G G A A G G A A G G A A G G G G A A$ G G GACAGGGAGGAGAAAAAAGAAGCAGGTTGGAGCCGAAAAA GAGAGGGGAAGGATAAGGAAGGAAAGGGGGCCAAGGGGAAAA A A G GAA GAAAAAAAAAAAAGAAAAAGAGAAAGAAAAAGAGAA GAAAGGAGCCGAGGACAGAAAAGGAAAAAGAGCCGAAGAGAC
 A GAAGGAGGGGGAAAACCGGCCGGAAAAGGGGGAAAGAGAAA AACGGGAAAAGGGAGAAAACGGGGAAGGAGCAGGACAAAGAA AACCGGAAACAAGGAAAACCCCCCGGAAAAGGAAGGCAACAC G GAGGAAAAAGAGGAAGGAAGGGACCGAGAGGACAAAAGGGG GAAGAAAAGGGGGGAAAAAAGGGGAGAGGAGGGGAAGGAAAA
 GACCGGGGGGAAAAAAAAGGAAGGCAGAAGGGGGAAGGGGGG AAAAGGAAGACCAACCAGGAGAAGGGCAAGGGAAGGTTACBG
 A G G G A A G G A G G G A A A G A GAGGAGGGGAGAACCGGCACAAG G G ACGGCCGGCCGAGACCAGAGGGAAGGAGCCGAGGAGGAAAGG AAAGGACCGGAGGGAAAAACGGAAGGACGGAAAAGGAACAAA G GCA C G G G G G G G G A A G C A G G A A G G G G A A G G A A G G G G G A G G G A A GAAA $A \operatorname{AGGC} C A A A A A C G G G G G G G G G A A A C C A A A G A G G G G G G A$ G G G G A A G A C G A A C C G G A G G A A G G G G G G G G G A G C C G G G G G G A A $G G A A C A G A G A A A G G G G A G A G G G A A G G G G C C G G G A A A G G A C A C$ $G G A C G G A G G G G G A C G G G A G A G G G G A G G G A A G G G G G G G G A G G G$

G G G GAGAAAACCAACCGGGGGAGGGGCCAAAAGGTTAAAGAG $A G G A A G G G G G A A A A A A G G G G G G G G G G A A A A G G A A A A A A G G G G$ G G G G A A A A A A A A G G G G G GAA $A \operatorname{AGAAAAGGAGGAGAACAAAAAG}$ G GAACCGGAAGGCCCAGAGGGGCCAGCCAGGGAGAAAAAGAC AGGAAAGGAACCAGGGGGAGCAGAAAAAAAAGGAAAAGAACA GAGAAGGAGAAGAGAAAAACGAAAGGAAAACACAGACAAA GA G G GAGGGGAAAAAAAGAGCCAAAGGGGGAAAAAA GAACAGEG AAAACCAGAAGGCCATGGAATTCCAAAAAGGGAACGAAGGAC
 AAAAGGAAGAGGAGAGGAAGCGGACCACGGAAAGAAAGAGAG G G G G G G GAAA $A \operatorname{A} A A A A A C \subset A A G G G G G G G G A A G G G G G G A A A A A A$ G G G G G G A A G G A A C C G G G G A A A A A A A A G G G G G A G GCC GAA G C C C CAACCAAGGAAAGAAGGCCCCAAAAAAAAAAGAGGAGAAAG A G G G G GAAAACCAGGCCCGAGGAGGAAAAAGGAAGAGGGGGG A A G G G GAA A GAAAAGGACGAGAAGCAGGAACAAAGGGGCCGG AAGGAAAAGGAGAAAGACCCAAAAAGAAGGAGGGAAAACCCC A G T T T T A G A A A A A G A G G G G G G G A A A A G G G G A A A A C C G G A A A A C CAGAA GAAAAAGGAGAAGGGAAAAAACGGAACCAAAAAAAA AACGGGAAAGAAAAAAAGAGGGCAAAAGGGAACCGAGAGGGG
 AGGGAAAACCAAAGAGACAAAAAAGGAGGACAAAAGAGAAAG G GAGAAAAAGTAGGAGGGAGAAGAGAGGGAGGGAAGGAGGGA G GAGAGGGAGAGCCAGAGAAAGAGAGTAGAAAAACCGGAGBA G G G A A G A A A C A C G G G A G G G A A A G G G G G G G G G G G G A A A A A A A $G$ A A C C A A A G G G G GAC G G A A A G C CAAAGGAAAAAAGAACA GAAA G G G G G G G G A G G GAA A A G G G G A A A A GAGAAGGAGGCCAAAAA G AAAA A A A C GAGGAAGGAGAAGGGGAAAAGAGGAAGGAGAAGA $G G A G G G A G G G G A A A G A G A A G A A G G G A G G G A A A G G G G G G A G A G$ A GCCGGAAGGAGGGGGAAAAGACCAAGGCCGGAACCAGAGCA GAGAAAAAAGGAGGGGGGGAGAGGGGGGAACCAGACAAGGGA A G G G A A C A G A A G A A G G A A A GAGGCAAGAAGAGGGAAAAAAA G G GAAGGGGAAACGAGAGAAGAACCAGAGGGGAGGAAGGGGAG G G G GAGAGGAAAAAGGAAAAAAGGAGGGGGGGAAAACCACAA G A A A A A A A A A C C C CA G A A A A A A C CAAGGAAAAAA GGG
G G GCCAAGAGGGGAAGAAGCCCAGACCGGCCGGAACAGGCC G G A A G A C A A A A C G G G G A A G G C C G G A A GAGGAAGGGAAAA A A C
 A A A A G G GAGGAAAA $A \operatorname{A} G A T A A A A A G A G C C G G G G G G G A A A A G G G$
 G GAA $A \operatorname{GA} G A A A A C A A A A A A A A C G G A C C A C A G A G A G G G B A A G G$ G G G G G G C A A A A A A A G G G G A A GAGAGGGAGGAGACAGAAAAA G GAAGGGGAAAGAGGGGAAGGAAGGGGGGGGAGAAGAAGACCA G GAAGAAAGGGGAAAAGGAAGGAACAGGGGAACAAAAAGAAG A G A A A A A G A A G GAGGGGGGAAAAAAAAAGGAACCAAGAAGAA A A C A C C G G GA G GA G A A A A G GAA $A \operatorname{AGGGCCAAGGAAAAGGGGAA}$ $G G A A A A A A A A G G A A A A A A G G C C G G G A G A A A A A G G G G A A A A A G$ G G A A A G G G G G G A G G A A A A C C G A A G G A A G C CAAACA A A CA G G G GAAAGGAACCGAAGGGGGAGTTAACCAAGGCCAAGACCAAGG A GAGGGGAGAAGAGAAAAAGGGGAGGGGAGGAAAAAAAAAAA G GAA $A \operatorname{GAAA} A G G A G G G C A G A G A A G A A C C G G C C G G C C G G G G G G$ C C C C G GA $\operatorname{CGGGGGACAGAAGGGGAAAGGGAAAGGGCAGACCAG}$ AC G G A A A C G G A GAACAAAGGGGCAAAAGGAGGGGGGAAATAA A A G A A G C C G A G G G G C C G G G G G G C C G G C C G G G G G A G G A A C C G G A A A A A GAGAGAAAAGGGGAGAGGGGCAGAAAAAGGGAGGAAA G G G GAAAAAAAAAAAAGCGAAGAAAAAAGGAGGGAAAAAAGA G G G A G G A G G G C C G G GAATAAGAAAAAGAAGGAACAGAAAAAA
 G G A A A C G G A GACCAAAAGGAGCGCCAGGAAAAAAAA G G G G A A A G A G G A A GACAAAGAAGAGGCACAGGAAGGAGGGGGGAGGGGCC

AAGGAGCCAAGGCCGGGAAAGGGAGGAGCCGGAGGGCCAAGG $A C G G G G A A G G A G G A A A G G A C A G G G G G C C A A G G G G G G G G A G A A$ GCAA $\mathcal{C} G \mathrm{G} G A \subset C \subset A A A C G G A A G A A A A G G G A G G A G G G G A A G G G G$ AA GACAGAGGGGGGAAGGCCGAAAAAGGAAAATAGGGGAAGAG AAAAGGAAAAAACCAAAAGGGGGGGAAAGAAGGAAAAGAGAC G GA A A G GCGGGGAGAAAGGGGATTAGGGGGAGAGAGCACAGG
 A GCAAAGGGGAGAAGGAACAAAGGGGGAAAAGGGGGGAAGTT A A G G A C G G A A G G A G G G G A G A A A A GCAGGGGACAA GAGA G GAA $A G G G G A G A A A G G A A G G A G G G G A A A A G A A G G A A G G A A G A G A G A$ GAACACAAAGAGAGAAAAAACCAAAGCCAAAGATAAAA GA GA GAACGGGGAAAACAAACAGGAACAAGAAGGGGAAAGGAAAAG A GACGGGGCCCCGGAAAAAGAGAGCCGGAAGGAAAGAAGGAG A A G GAGAGGGCCCCAAAAGAGGCCGGAGGAGGCAAGAGGGGA G GAAGGGGAGGGAAAAGGCAAGAAGGAACCCCGGACAGAGAA GAGAGAAACAGAGGCCGGCCAAAAGGAAAAGGGGGGGGGGCC G G A A A A A A G G G G G G A A A A G G G G C C G G G G A A G G G G A A G G G G G G G G A A A A G G G G G GAA A G G G G GAA $A \operatorname{AGGGAAAAAAGGAAGGAGAA}$ GGGGAAAACCAAAAAAAAAAGGGGGGCCAACGGGGGGGAGAA A G G G G G A A A A A A A G GAGGCCAAGGAAGGAAGGAAGGCAAAAA G G G GAA AGCCCCAAAAAAGGGGAACCGAACGGAGGAGGGAGA
 GAGGAAAAAGAAAGGGGGAGAGAGAAAGAATTGAAAAAACAG G GAGAAAGAAGAGGAAACAAAAAAGAAGAGGGAGAGCCBGCC A A A A C C A A A A $\mathcal{A} G G G G G G A A A G G G G G G A A G G G A C A A G G A A A A G$
 G G G GAAAC A A G GAGGACAAGGGGGAAGAAAAG
$11014000-9 A A G G G G C C G G G G A G A G A A G G A G A A A A A A G G G G C A$ AAAGAACCCCCCAAGGGGAGCAGGAAGGAAAGCCAAAAGGAA

 $C \subset A A G G A A G G A A G G C C A A A A C C G G G G A A A A A A A A G G A A G A A A$ ACGACCGGCCAAGGAAAAGGAGAAGAAAAGAGCCGGCCGGGG
 G GAAAAGGGACCAAAAAAAAAGAACCGGGGGGCAGGCAAGAA A A A A A A A A G G G G A A A A G G A A A G GAGGCCAGCCAAGGGG G GAAA A A A A A A A ACCAAAAAAGGAAAAGAAGAGCCAACCAAGAAAGG AAGGAACCGGAACCCCGGAGAAGGGGAAGGCCAAAGATAAGA A A A G G G A A A G A A C C A A G G A A A A A ACATTCCGGGGCCAGAGAA AA $A \operatorname{GAA} A G G A G G A A A A A A A A A A G G A A A G G G A A G A A C G A A A A A$ A GAAGGAAGGAAAAGGCCAAGGGGCCGGAAAGAAAAACAGAA GAAACCGAACAGACGGCAGGAAAAAAAGAAAAAAGGGGGGGG G GAAGAGAAAAACCAAAAAGGGGGGGCCGGGAGGAAAAAAAG
 GAAAAGGGCACCCCCGAAGGGGAGGAGGAGAACCAAAAGGAA A A A A G ACCGGAAGGAGCCAAGGAAAAGGCCGGTTGGGAAAGG G G A A A ACCAAAAAAAAAAGGAAGGAATTAACCAAAAGGGGAG $C \subset A A A A G G A A A A C C C C G A G G A A G G A A A C G G G G A A G G G G C A A G$ ACAAGGACGGAAAAAAGGAAAAGGAACCGGGGAAAAAAAAAA G G A A G G G A A A G G G G C C A A A A G GAGAAGGAAGAGGGGAAAA G C AAGGGGAAGAAGGGCCAAAAGGAACCAAAAAACCGGAAGGAA GCAAGAGAGGGGGAGGGGAGCCAGGGAAGGAAAGAAAAAAAA A A G G T T A A T T C C A A G G A G G G A A A A C C G G A A A A A A A A A A A A G G GAAAAAGGAAGACCGGGGAAAGAGACAGTAAACCAAGGGAAA AAAAGGAAGGACGGGAAAAAACGGCCAGAGAAGGAAAGGGGG
 A ACCCCAACAAAAAGGGAAGGAGGAACCAAGGCCAGGGGGGG A A GAAA A GAA G GACGGAGAGGAAAGAAAAGAAGGGGGGAGAA A GAGGAAAAGCCAAAAGGGGGAGGAGAGAAAAGGCAAAAGGG

A A A A G GAAGAGGGGGGAAAAACAGAAGGCCGAGGAAAAAAAA A G A A A A A A A A T TA G G G A A G GAGAGCATTGGAAGAA GAAAAAA A A G GA GAAAAAAGAAAGGGGAAGGAAAAAGTAGGGGGGAAGAA AAAAAAGGCCAAAAAGGGAAGAGACCAGAGAAGACCGGGGGG AACGAGCCGGCCGAAGCCACGGAGAAGGAAGGCCAGCCAAAAA

 AATAAAGGGAAGAGAAAAAAGGAAAAGGAAAAGGAAGGGGGG G G G G G G A A G G A A A A A A G GAAAAAAAA $A A A A C G G G G A A G G G G A G$ G GAAGGGGAAGGGGGACCAGAGAAAAGGGGGAAAAAAACCCC
 GGCCAAAGAAAGAACCAAGGAAAGAGCCGAGGGGAGGGAAAA AACCAGAAAGAGAAAAAAAAAACCAAAGAGACCCGGGGAAGA A A G A A GAAAAGGAAAGACGGGGAACCGAAAGGGGCCGGAAGA G GAA A GAGGGGGAAAAAGAGAACCCCGGGGAAGAGACCAAAG AAGGGGGGAAGAGAAGAAAAAAAAGGACGAAAGAAACAAAAA A A A A A A A A G GC C G G G G G G G G G G A A G G A A C C G G A A A A G G G G G G
 $G G A A A A A A A A C C G G A A G G A A C C G G A A G G A A A A C A A G G G A G A G$ G GCAGGCCAAGGAAAAGGGGAAAAAAAAAAGGAAAACCGGGG AAGGAAGGCCGACCAACCGGGGGGCCACAAAAGGCCAAAAGG AA $A \operatorname{GA} A G A G A C C A G C C G G G G G G A C C C C A G A G G G G C C A A A A A G$ A A G G A A G G A A A A G G GAGAACGAAAAGGAGGAAAA GGGGCCGG G G A A A A G G A A C C A A G G A A A A A A A A A A C C G GCC G G G G G G G G G G A A A A A A A A A A A A A G CAAAA AAAAAGAGGAACAGAGGAAGGAG AAGGAGCCCACCCCCGAAGGAAGAAAGGAAAGAAAAGGAGAA G G GAGGAAAAAAAAAACCGGGGAACCAGGGGAGAGGCCAAAAA A GCAAA $A \operatorname{A} G A A A A A A A A A G G G A A A A G G G G A G G G A C G G G A A C A G$ A A G G A A G G G G A A A A G G A A G G G G A A G G G G G G G A GAC CAAA A A G C CAA $\operatorname{C} G A A G G A A G A A A A A C C G G A G A A C C A A G G G G G G G G G G G G$ A A A A A A G G A A A A G GAA $A \operatorname{GTT} T \mathrm{G} G A A G G A A A A A A A A A A A A C C G G$ G G G G G GAAAAAAAAAAAAGGGGAAAACCAAGGAAAAAAGGGG GAGGAAGGAAGGAAAGGGCCAAAGAAGGGGCCGGGGGAAAGB A A A A G G G G T T A A A A G G A A A A G G A A G G G G A G G G A G A A A A A A A $G$ GAGGGGGGCCAACCGGGGAAAAAAGGCCGGCCAAAAGAAACC $G G A A T T G G G G G G A A G G C C G G A A G G G G G G G G A A A A A A G G A C A A$
 $C \subset A A A A G G A A G G G G A A G A G G C C A A A A A A G G A A G G C C G G A G A A$ G G G G A A A A A A A A A A A A A A A A A A C CAAAA $A$ A GGGGGAAAA G GAA
 G GAA $A \operatorname{GGG} G \operatorname{GAA} A G G A A A G A A G G G G C C G G A A A A G G G A A A A A G G$ A A A A A G G G A A G A G G A A G GCCGGGGGGAAGGCCAACCAA GGGG

 G G G G G G G G A A G GAAAA A $A$ A A GAGAAAAAACCGGGGGAAA GAAA G G G G G G A A G G G GCC G G G G A A G G A A A A G G A A C C A A C C A A A G G G G G A A G G G G G G A G A A A A G G G G A A G G G G G G G G A A G A A A G G A G C C A G G GAC C G $\operatorname{A}$ GAAAAAAAGAGGAGGAAGGGGAAGGAAGGAAAA G G G G G G G GAAAAAAGAACAACCAGGGAAAAGAAGGGGGACAA
 GAGGGGGGAAGGAGAAGAGGAAAAGGAAGGGGGGGGAAGAAA A G G GAA A G A A A A G GAAAAAAA A A GAGGAAAAAGGGAAAGAGAT
 G G G GAGGGGGGGAAAACAGGCCCAAAGAAAAAAAGGAAAAAG
 G G A A A A A A GAAAGGAACCAGAAAAGGGAGAGAGAGBAAAAAA AACCAGGAGGAAAAGGAAGGAAGGAAAACCAATTGGAAGGAA A A A A A A A A G G G G G G G G A A A A A A A A GAGGAAGGAAAA A A A A C C $A A C C G G C C A A G G G G G G G A C A G A A A G G C C A G C C A G A A A A A A G G$

A A G G A A G G G GAAGGGGTTCCAAGGAAAAAACCGGGAAAGGGG A A A A G GAAAA $A \operatorname{AGGAGGACAAAAGGAACCAAGATTCCGGGGAG}$ A A A A $\operatorname{A} G A G G G G G G G A G G G G G A A A A G G G G A G A A G G A C A A A G A A$ G G G GAA A A GAAACAGGCCAAGGAAAAGGGGGGAAAAAAGGCC CAAAGAGGGGGGACCCGGAGGAAAAAAAGAGGAAGAAAGAAA GAAACAAAAAAAGAAGAACCGGGGGGAACCCCAACCGGCCGG AAAGACCCAACCGGAAAAAAGGGGAACCCCAAGGAAAAGAAA AAAAAAAAAAGGCCGGAAGGCAAGGGGGAAAAGGGGGGAAAA G G A A G G G G A A A A A A A A A GAACCGGAAGGGGGGAA G GAAAAAC C GGCCAAGGCCAGGGAAAAAAAGGGTTGGGGGGCAGGGAGGGG G GAA A GAAAAAAAAAAAAGGGGGGGGAGAAGGACAACCAA GA $A \subset A A A A A G A G A G C C G G G G G G A A C C G G G G G G G G G G A G G G A G A A$ A GAGGAGGAAGGAAAAGGAAGAAGACAGACGGAAAAAAAACC G GAA A GCAA $\operatorname{CAGGAAAAAGGGAAACAGCAGGCCAAAGAAAGAG}$ G GACGAAGAAGGGGGAGGAGGGGAAGCCAGAAAAGGAAGGAG AA $A \operatorname{GGGGGGGA} A A A G G A A A A A A G G C C G G A A G G G G A A G G A G A A$ AA $A G A A A A G G C C G G C C G G C G G A A G A A A C C G A A A A A A A G A C C$ $A C G G A A G G C A G G A A G G G G A A A C A G A G A G A A A A G G G G G G G G G G$ AAAAAGGGAAAAGGCACCGGGGAAAAGGAAAAAAGGGGAAAG
 GAACAAAAGGAACAAAGGGGCCAACCCCCCAAAAGACCGGGG AACCAAGGAGAAAAAAGGGGAACGGGGGCCGGAGGGGGAACA C C G G A A GAAACCAAAAGGGAGAAAAAGGAACCAAAAGAGGAA AAAAGGAAAAGGGGGAAAGGAAAAGGAAACAGAACCAAAAAG GAAGGGGGAAGGAAGGGGCACCGGAAGAGGAAGGAGACAAGA A GAAACAGAGAAAGGGAGAAGGAAGGAAGGGGGGGGGAAAGA $G G C C C C G A G A G A G G G A A A G G A A C C G G G G A A C C C C A A G$
GTTGGAAAAAAGGAAAAAAAAAAAAAAGGGGGAGBAAAAGG C CAAA A A A C GCC G G G G G GAAAGCGGGAAGGAACAAAGGAGAA $G G C C G G G G G G G G A A G G A A G G G G C C G G A A G G A G A G A A G A A G G G$ A G G G A A A A G GCCA GAAAAGAAAGGCCAAAAGGCCAAAAGGAG A G G G G G G G G G G GAGAAAAGGAAGGAAGGAACCGGGGAAAACA G G G G G GAAAAAGCAAAGAAGAAGGGGAAAAAAAAAGCCGGGG C C A A A A G G A A A A A A G G A G G G G G A A A A A A A A C C G G G G A A A G C G G GCCAAGGGGGGAATTCCGGTTAAAAAAAAGAGGGGAAAA G G G G G G G G G G G G G G G G A A G G G G G A G G G A C C A G A A G G A C G G G G G G GAGAGGGGGGCGGCCCAGGAAGGAAAGGAAGGGGAACCAAGG CAGGGGAAAAGGGGGGAACCGGGGAAGGAGAAAAGGCCAAGA GAAAAAGGGGAAAGGGAACAGGAAAAAAAGGGAAAAGACCAG
 A A A A GAGGAGAAGGCCGGCCGGGGCCGGGGCCGGGGAAGGAA
 AAGGCCTTCCCCAAAAGGAAGGAGGACCAAAGGGTTAAGGGG
 A A G A G GAGCAGGAAGGAACCGGAACCGAGGAAAAAAGAAAGB G G A A A A A A G A A A A A A A A A $G G G G G A G G G G G G G G G G G G A A A A G B$ G G G G A A A A A A C CA $A \operatorname{GGGGGAAGGGGCGCCAGGAGGAAGGAAAA}$ AA $A \operatorname{GA} A A A A A G G A G C C A A A A G G G G C A G G A A A A G G A A G A G G A G$ A A G GAA A GAAAAAAGGAAGGCCAAAGAAGGGGGACAAAAAGG A A G G G GAAAA A A C C A A GAA A G GAA A GAAAAGGGGAAAACC G G G G G A A C A G A G A TAA A GAAAAAAGGAGGGGGAAGGGAAAAA G G AAAAAAGGCCAAGGCCGAGGGAACAAAAGGAACCCCAAAAAA A A G G G G A G A A G G G G A G A A A A A G A A A A G G A A G G A A G A A G G A G G AAAAAACCGGGGGGGGGGGGAAGGGGGGGAAAACAGGGAAGG G GAACAGGGAGGAATXAGGGAAAAAAAGAAAAGGGGAAAACC A A A A C C A A A A G G GACAAACCGAGGGAGGAGAGGGGGAGGGGG C C A A G G A A C C A A A A G G G G G G G G G G G G A A G GAAAAAAAAAAAAA G G A A A GCCAA G GCCCC G G G G G G G G G G A A A G G A A A A A A G GC C C C AAAAAAAAAACCGAGAAGGGAGGGGGAAGGAAAAAAAAGGCC

CAA A A GAAAAGGAAAAGGGGAAGGGGCCGGAAAAGGAGAGGG A A G G G GAACCTTGGCCCCGGAACCAAAAAAAAAGGAAAAAAA
 $C \subset G G C C G G G G A A G G G G A A A G A A G G G G C C G G A A A A G A C A G G G G$ GGCCGGGGAAGGAAAATTGAAGAAGGGGAAGGGAAACAAAAAA AAAAGGAAGGAAAAAAAAAAAACCCCAGAAGGAAAAAGAAAA AA G GAAGGAAAAGGGAACAGGAGGCCAAGAGAGGAAAAAAAA $G G G A A A C A C A G G G G G G A A G G A A A G G G A A A A A A A A A A A A G G A A$ C CAA $A \operatorname{GCCA} A C C G G A A G G A A A A G G A G A C G G G G G G A A A A G G C A$ AAAGGGGGAAAGAAGGAAAAAGGGAACCCCGGCCCCCCGGAA AAGGAAAAGGTTAAGGAACCAAAAAAGGAAAAAAAAGGAGAA A A G GAAAAGGAAAAAAAAAAGAGAAGCCGAAAAAAAGAGGAA GAGGAAGGAAAAAAAGAAAGGGAGCCGGGGAAAAAAGGAGAA AAGGAAGAAAGGGGGGGGCCCCAGCAAGGGAAGGAAAAGGGG AAGGAAAAAAAACCGGAAAAAAAAAAAAAAAAAAAAGGAAAA
 C CAAAAGGAACCCCGGGGAAGGAAAACCAAAGAACCGGGGGG A G G G T T G G C C G G A A G G G G A A G G A A A A A A G G G G A A A A G A A A A A AAGGCCCCGGAAGGGGCCGGGGAACCGGAAAAGGGAAAAAGG AA G GCCAAGGAAAAGGAAAAAAGGAAAAAAGGCCGGGAAAAA AACCGGGGGGAGAAAAGGGGAAAAGGCCAAGGACGAAAAAAA A GAACCAAGGGGCCGGAGGGAAAAAAAAGGAAGGAAGAAAGG $A C G G G G G G G G G G A A A A A G T A A G G A A A A A A G G G C A A A A A G G A G$ A A A A G A $\operatorname{A} A A G G A G G G G G G A A G A C A G A A G A A G G G G G G A A G G G G$
 A GACAGAAAAAAAAGGAAAAGGAGTTAAAGACGAGGGGAAAA G GACAAGGGGCCAAGGAAAAAAAGGGCCGAGGACTTCCGGAAA G G G G A A C C G G G GACAGAGCAAAGGAAGGAAGAAAAA G G A A G T T G G G G A A G G G G A A G GCCACAGAAAACCGAGAGGGAAGAAAGGG AAAATTAGAAGGGACCGGAAAAGGAGAGCCAAGGGGGGAACA AAAACGGGGGAAAAAAGAAGAACCACGAGGAAAGGGAAAGAC AACCAAGGAGGGAGGGGGCAAGGGAGGAAAGGGGAAGGAGAA AAACGAGGCCAAAAAGGAGGAAGAGGAAGGCCGGAAGAAAAAA AA $A \operatorname{GA} A G A G G A C G G A A G A G G G G T A G G A A G A A G G A C C A A A G A A$ A A G G G G T A A $\mathcal{A} G G A A G G G G G G A G A A G G C C A A G G G G G G A A A A A C$ A A A G A A G G A A C A C A T T C C G G G G A A G G A A C C C C A C A A G G G G C C A A G G G GAAAAGGAAAAGGAAAAAAGGAAGGGGAAAAAAGGAA G GAAAAAACCGGAACAAGAAAGAAGGAAGGGGAGCAAGAGAG G G A A G G A A A A A A G G A A A GAAA $A \operatorname{AGGAAAGGGAGAAGGGGAAGG}$
 $G G A A A A A A G G A A G G A A G G G G A A A A A A G G A A G G G G G G G G G G T T$ G G A A T T G G A A G G A A G G A A A A A A GAGAAACCCAAA G G G GACAA AAGGAACCAGCAAAATGAAAGGAAAAAAAGAAAAGGAGAAGG A GAAAAAGGGAAGGAGTTCCAAAAAAGGAACCGGGGAAAAGG G G A A A A A A G G G G G A A C G A A A GAA CAAAAAAAAA $A$ A A A A G G G G G G A GAACCGGAAAAAAGGGGAAAAAAAAAAGGGGGGGGAACCBG G G G G G GAAAAGGAACCAAGGGGGGGGGGAAAAGGGAAAAAAG A A A A A G G G G G G GAA A GAAGGAACCAAGGGGAAAAAGTTAAGG $C \subset A A C C G A A A A A A A A A A A A A A A G G G G A A A A C A G A C A A G G G G G$ G G A A A A A G G G A GAA A A G GAATAGAGGCCAAGGAAAAAATXAA $C \subset A A C C G A A G A A A A A A G G A A A G G A A A G G A A A A G G A A G A G G A A$ $A G C C A A G G A A G G G G A G C C A A G G G A A A C C A A A G G G C A A C A G G G$ G G G A A C A G A A G GAA $\operatorname{C} A A A G A G G G A A A A G G G G A G G G G A A A G G G G$ G G G G G G G G A A G G T T A A A G A A A G G G A A A A C C A A G G G G C C G G A A G G G GAACCGGAGAACCAACCAAGGGGAAAAAACCAAAAAATT A A A A A A G G A A A A A A A A A A G GGGGGAACAAAAAAAGGGGAAGG G G G G A A G G G G A G A A A A A A A A A A A A GGGGAAAAGGCCGAAA G G $G G A A A A A A A A G G A A A A C C G G C C G G A A A A A A A A G G G G A A G A A A$ AGAAACAAGGTTGGAAAAAAAACCGGGGGGGGCCGGAAAAAA

A A A A A A A A A A G GAAAAAAGGAATTCCAACCGGTTGGAAGGCC G G G G G G A A G G A A C C A A G G G G G G G G A A A A A A A A A A A A A A G G A A G G G G A A A A A A A A A A A A A A G G GGCCCCCCAACCTTGGAAGGAA AAGGAAAAGGAAAAAAAACCAAAAGGGGGGAAAAAAAAAGGG G GAACAGGAAGGGGAAGGGGGGAAAAGAAAGGAGGGGGACAA AAGGGGCCAAGGGGAACCAAAACCGGGGACAAACAAGAAAAA A A C C G G G G G G A A G G A A A A G GACAGAGGGGGGGGGAAGAAA G G C GAAGGGGGAGGAGACAGAAAACCAGAAGGCCGGACGGAAAA G G A A A A A A A A G GA G A G A GACAGGGAAAAAAGAAAAAAAAGGG $C \subset A A G A A A A C A A G G A A G G A A G G G G G G A A G G C C A A A A C C C C A A$
 G G G G G G G G G G A A G G G G A A G G C C A A A A C CAAAA A G G G C C G G A A AAGGAACATTAAAAAAAAGGAAAAAAAAGAAGAAAAGAGAAA G G A A A A A CAAAACCAAGGGAAGGAAAGGAACCACAAGGAAAA A GCCAAAGAACAACAGAAGGACGGAAGAGAAGCCCAGBAACAC GGCCGGAAGGAAAACCAAAAAGAAAAGGGGAGAAGAGGAA GA A A A G G G A A A A TAA $A \operatorname{G} G \mathrm{~A} A \mathrm{~A} A A A A A A A A A A C C A A G G A A G G C C G G$ G GCCGGGGCCGGGGGGAACCGGAAAAGGAACCAAACAACCBG A A A A A A G A G G G G G G G C G GAAAAAAGGAAAGGGGGATAAAAAA C C C C G GCC G GAAGAAACCCAGAGGAAAAGGAAAAAAAAGAAA A GAGTTAAGAAAGGGGAAGGGGAAAAGGGGAAGGCCAGAAGA G G G G G G G G A A C C G G GAAAGGCCGGAAGGAAGGCCGGAAGAAA C C G G A A A A G G G GAA $A \operatorname{GGG} \operatorname{GAAAAGGCCAGGGAAGGAAAAAAGA}$ GAAAGGGATTAAGAAAAAAAAGGGAGAAAAAATTAAAACCGG CAAAAAAAAAAAGGAGCCCCGGTTAGAAAAAAAAGGGGCAAA A A G G G G G G G G G GC C G G A A G G G G A G G G G GAAGGAACCAAAA T T A A A A A A A A A A G GAAGGAAGAGGGGAAAGGATTGGAAA
A A A G G A A A A C C A G G G G A GAGGAAGGGGGACCGGGGGAGCGG
 $G G A A G G G A A A A A G G A G G A A A G G A A G G A A A A A A A G A A A A A A G G$ G G A A A A G G A G A A A A A GCC GAAGCCAAAAGGCCGGBAAATTGG AACGAAGGAAAAAACCGGAACCAAGGGGAAGGAAAACCAATT A A A A A CA GAAAAAAGGAAAAAAGAAAAAAGGGGGGGGAAAGG
 G GCCAAGGGGAAGACACCGGAGCCAGAAAGAGGGGGGGAGAA A A A A G G A A A A G G A A G G CAAA A A A A C C G G G G G G T T A A G G A A G G G G G GCGAAGGAAAGAAAAGGACAAGGGGGGGGAAGAGAGGGG G GAACCGGAAGGGGGGAAGGCCAAAGGGGGAAAAGGGGAGAG A A G G G A A A A G G G A A A A G GAGAAAAAAACGGAAGAGGGAAA G G
 $G G A A A A C C C C A A G G C C G G G G A A G G G A A G G G A A A A A A C A A A$ A A G G G G A A G G G G C C A A G G A A G G A A G G G A T A A G T T C C G G A C G G AGGGGAAGCCGGAAGGGGAAAAGGAAAAAGAAGAAAGGAGAC A A G G G G G G A A G A G A A G G A G A G A A A G GAAAAAAAATTAA G $A$ A A A A A G G A A A A A A G G A A G G A A G G A A G G G G G G C G A G A C T T G A G G G G G G G G G G A A G G G A A A A CAGAGCGCCGGAACCAAAAAAAAAA G G AAGGGGCCAAAACCAAGAAAAAAGAAAAAAAAGGAAGGAACC G G G G A A G GCC $C$ G G G G G G G GC C A A G G G G G G G G A A A A A A A A A A A C T TAAAA A $A$ A A A A A G G G G A G G G G G G G A A G G A A C C A A A A G G G G G G G GCCAAAAAAGGGGGAGAGGGGCAAAAAAAAAAAAAAAAAAA
 A A A A A A G G G G G GAAAAACAAAA G GAAAGGGGAAACGGCCGGGG G G G G A GCCAACCAACCGGGGGGGGCCGGGGGGGCCCCAAGB $C \subset C A G G G C G A A A C G G A A A A A A C A A A A G G A A A A C C G G G G G G G G$ A A A A G G G G G GAA $A \operatorname{A} G A A A A G G A A A A G G A A A A G G A A G G G G A G G G$ A A A G G A A GCCAACCGGGGGGGGAGAAACAAGGGGAAAAGGGG A A A A A A G G A A G G A A A A G GAAGGAAGGGGCCAAAACCCC G GAA C CAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G}$ GAAAAGGGGGAGGCCAAAAAAGGGGGGCCAGAA $A \subset A A A G G G G G G G A A A A A A A A A G A A G A G G G G A A A A A A G G A G A A$

AACCGGAAGGGGGGGGGAAAGGAGAGAAAGAAGAGGGAAAAA A A G G G GAAAAAAAAAACCCCAAGGGGAAGGGGGGCAAAAGCC A A G G G GAA A G G G GAA A A A A A G G G G G GAA A G A G G G A A G A G G G G A A ACGGGAGGGGAAGGCCAAGAGAAAAGCCGGAGAAAAAGAAGG AAAACCGGGGGGGGAAAAGGAGCCGGAAGGACAAAAAAAAAA AAAAGGGGCCAAAACCGGGGGGAGGGAGCCAGGAAGAGAAGG G GAGAGGGGGGAGGGGGGACAAAAAAAAAAAAGGGAAACCAA AAGGAAGGAAGGGGAACCAAGGAAAAGGAAGGCCAAAACCAA G GAA A GAAGGAAAGGGAAAAGGAAGGAAGGCCGGAAGAAAAA $C C G G G G G G A A A A G G A A G G T T G G A A A A A G G A A A A G A C A A A G A A$ AAGGGGCCACGGAAAAAGAAAGAAGGCAGGGAACAAAAAAAA GAAGAAAAGGAAAAGGGGAAAAGGGGAGCAAAGGGGGGCCBG $G G A A A A G A G G A A A A G G G G A G A A A A A A A A A A A G G C G G G G A G A A$ A A G G G G A A G G A G A A G G G GAGGGGGAAAGCCGGTTGGAAACAA AAAAGAAGGAAAGGAAGGAAGGAAAAGGGAAAAACCAACAGG A GAGGGAAAAAAGGAGGGGGGGAAAAAAGGGGGGCAAAACAC A A A A A A A G A A A A A GCCAGAGGGGGGGGGGGAAAGAGGACCAA
 A A A G G A $\mathcal{A} G G G G G G G A G G G G G G G G G G G G G A A G G G G G G G G A C A A$ AACCGAGGAAGGAAAAGGAAAAGGAACCAAGGCCAAGAAAGA ACGAAGAAAAAAAAGGAAAAGGGGGGGAGGGGGGAAGAAAGA GAAACCGGACGGGGACGGCCGGGGGGAAGGGGGGAAGAGGAA G G A A A A A C G G G G G G A A A A A A C CAAAAGGGGGGGACAAAGGCC A A A A G G A A A A A A A G A A A A G G G G C C C C G G G G G G G G G G G G A A C C G GGGCCAAGGAAAAAAAGGGAAAAAACAGGAAGGAAGGAAAAA G G G GCCAAAAGGGGGGAAGAGGAAGGCCGGAAAAGGGGAGAA G GAGGGACAGAAGGCCCCGGAAGGGGAAGAAAAAAGAAAACC G G G G G A A A A A C C C C A GAAA $A$ G G G G GAAAAAACCATAAGGACAA G G G G G GCCAAAGAAGAAAGGGGGGAAGGGGAAGGAAAAAAAG AAAAGGGGAAGGAAAAAAGGAAGGGGGGGGAGGGAAGAAAAG A A A A A GAGGGAAAACCGGGGAGAACCGAGAAACCGGGAAAGA A A A A A A A A G GAAGAGGAAGGGAAAAAGAAAGGAAGGAAGGAA
 G G A G A T A G A A A A G G G G A A A A A A G G G GAATTAACCAACCACAA A A GAAAAAGGGGGGAAAAAAAAGGGGGAAGAAGGCCCABAAAA C C A A A A G G G G A A G G A A A A G G G G A A A G A A A A A G A GA G C A A A G G AAAAAAAACCGGGGACGGAAAAACAAAAGGCCCCCCAACAAG G GAAAGGACAGAAGGGCCAAAAAAGGCAAGAAGAGGAAAAAA A A A A A G A A G G A G G G G G G G A A G G A A G G C A A A GAA A A A G A G G A A A G GAAA A G A G A A A A A A A A A A GAGGGGCCACGGAA G GA G G GAAA
 G G G G A A A A A G G G C C A A A A G G G A G G G G A A A A G G A A A A G G G G A A A A A A A A A A G GAGGGGGAGGAAGAGAGAAAAGAGGAAAAAAGA G G A A A A A G A A A A A G G G G G G G A GAAAGGGAA GAAA G GAA A A G G G G G G G A G G G C G GA $\operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{G} A C C A A G G G G A A A A G G A A C A A G G G$ $A G G G A A G G G G G G A A G G A G A A G A T T G G A G C C A A G G A G G G G G G G$ A A C C A A A A G G A A G G A G G GAAGGCCAAGGGGAAAGGGAA G GAA AA G GAAAAAACCAGAAAAGGAAGGAAAAGGAACCGGAAGGAA G GAAAAAGAAGGGGAAAAGGAAGGAAGGGGGGGGCCCAAAAAA A A C C G G G G G G G G A A $\mathcal{A} G G G G G G G G G G G A A G G A G C C G A A A G G C C$

 G GAAGGGAAAAAAGCAGACCAGGGAAGGAAAGAAGGAACCTT AAAAGGAAAGAAAACAGGAAGAAAAAAAGGGGGGGGAAAAAA A A G G A A A A A A G G G GAA $A \operatorname{A} A A G G A A A G G G C C G G G A A C G G G A A A$ AA $A G G G C C A A C C C C G G A C G G G G G G A A A A A A G G C A G G A A A A A A$ G G GAGGAAAGGGAAGGCCCCAAACGAAAAGAAGGAAGGGGGG $G G C A A G A A C G G A A G A A C A G G A G G G T T G A C C G G C C G G A A C C G G$ AAGAAGGGAAAAGGGGAAAGAAGGCCGGGGGGAAAACCAGCC

A G G G G G A A C C A G G G G A G G G G A G A G G A G G G G G G T T A A G G G G A A G G G A A A A A G G G G A A GAGGGAAAAAGGAAGGAAGCCCAAACAA GAAGAGAAGGAAGGAAAAAAAAAAAATAGGAACCGGAAAACC C CAACCAGAAAAAAAAAACCGGGGGGGGAAAAAAAAAAAACC G GCCGGAAAACCGGGGGGAAAAAGAAAAGAGGGGAAAAGGGG
 A A A G A A G G A A G GCCAGAAGAAAGGTTAAAAGGGGCCGGAGAA C C G G G GAA $A$ AAAAAAGGACGGAAAAAAGGAAAGGGGGAAAAAAC
 G GAAAAAAGAGAAAGAAGCAGGGAAGAAAAAAAGCAGGGGGG GACCGGAAGGGGAAAAGGAAAAAAAAGGAAGGAAGGAAAAGG A A G G G A GAAAAAGGAAGGGGGGGGGAGGAAACAAGGCCGGGG A A A A A A G GCCGGAAGGAAAAGGCCAAGGAAAAAAAAAAGGGG ATGGAAAAAAAAAACCAATTCCAAGGGGAAAAAACCGGAGAA $C \subset G A A G A G A A G G A A A A A T C C C C G A A G G G G G G G A A A G G G A G G A$ AAAAAACCCCAACCGGAAGGCCAAGGAAGGAAGGGGGGGGAA C C A A A A A A A A G G C A GAA A A A G G G G G G G G A A A A G GAA G G G G G A G GAA A A A A C C G A GA GAGGGGAGAAGGAAGGGGGGGAGAGAAA AAAACCAAGGACAACCAAGGGGCCAAGGCCAAGGCCGAAGAA C CAAA GA GAA G GCCAAAAAAAAAAGGAAAAGGAAGGGGCAGA AACCCCAAGGAGAAAAAGAAGGAGGGGGAAAATTAAGGGGGG AAAAGGAAGGGGGGAAAAGGAACCAAAAGGGGAAGGCCAAAG G G A A A A G G G G G GAAAA $A$ A A A G G G A C T T G A A A A A A A A A G GAA G G G G A A A A G A G G A A A A C C C CAAAACCAAA GAGGGGGGGGGAGAA A A G G G G G G A A A A A A A A A A A A G GAAAC $\mathcal{A} G G A A G G G G G G G G G A A A$ G GAACCAAAAGGGGCCAAGGCCAAAACCGGCCCCAAAAAAGG AAAAGGAACCGGTTCCGGCCAAGGGGGGAAAAGGGGG
G G G A A A A A A G G A A C C G G G G G G G G A A G G G G A A G G G G A G A A G $G$ AAGGAAAAAAAAGGGGGGAAGGAAAAGGAAAAGGAAAACAGG GAGAAGAAAAGGAAAAGGAAAAGGGGGGGGCCAAAAAAAAGG A A C C A A A A A A A A A A G G G G G G G GCCCCCGGAAGGGGAAAAAAAA AAGGGGTTGGAAGGAAGGGGAAAAGGGGCCAAAAAAAAAAGG A A G G G G A A G G G G G G G G A G A G G G A A G G G G G G G G A A G G G G C C G G A A T T G G A A G G G G A A A A A A G G G G A A G G A A A A G G A A A A A A A C G G A GAGCCAAGGAACCGGGGAAAAAGAAAGACCCAAGGGAAAAA $A A C C A A A A G G A A A A G G G G G G A A G G G G G G A A G G G G G G C C A G A A$ GGCCAAGGAAAAGGGGAAGGGGCAAAAAAAACCCGGAAAGAA G G G GAGGGGGAAGGGGAAAAAAGGAAGGGGGGGAGGGGAGCG G G A A G G A A A A A A G G G G A A G GAAAA A G A A G GAAAA A G CA A A G G A A G G A A C C A A A A G G A A G G A A G G A A G G G G G G G G A A C C G G G G G G C CAAAAGGAACAAAAAAGGGAAGAAGGGAAAAAAAAGGAAAA A A C C C C A A G G G G T T G G A A G G G G A A G G A A G G G G A A G G G G G G C C G G G G G GAA $A \operatorname{GGGGGGGAAGGCCAAAAAACCAAGAGGAGAAAA}$ A A A A A GAA A GAAGGCCGGAAAAAGGGAGGGAGAAGAAAAAGG $G G C C A A A A A A A A G G A A G G A A A A G G C C A A G G A G C C G G A A A G A G$
 C C A G A GA G A A C C G G A A T T A A A A G G G G G G C C G G A A G G A A G G G G A G G GAAAACCACAAGGAAGGAAGGGGGGGGAAAACCAAGGGG AACCGGGAAACCGGAAGGGGCCGGGGAAGGGGGGAAAACAAA G G G G G G G GCCAAC CAACAAAGGGGAACCGGAGAGGGGGGGGG CACACCGGAAAAAAGGAAGGGGGGGAGGACAAAAGEACACBG G GAGGAAACCCCAGGGAGCAAAAAAGGGGAGGAAGGAGAAAG G G G G A A A G A C G G G G A A G G A A C C A A C C G G C C A A G G G G G G C C G G A G G GA $\operatorname{A} G A A C G G A A G G C C A A G G A A G G A A A C A G G G C C G G A G A A$ G G G G G A A A G G A GCC G G A A G G C C C C A G G G G G G G G G A A G G G G G G GAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAACCGBAAGGGG G G G GAACCAGGAGAACAAAAGAGACCAAAAAAAAAAAAGGGG $A C A A A A G G A A A A C C A A A A A G A G G G A A A A G A G G A G A A A G A G A G$ $G G A A G G A G T T A G G G A C A G G A G G A A C C A A G A A G A G A A A A C A G G$

G GAAAAGGGGAAAACCAAAAAGAAGGCCAGAAAAGAGGGAAA $A G A G G G A A A G G G A G G G C C G G A A G G A G G G C A G G A A A A C C G G G G$ G G G GAACCAAAAGGAAAGGGAAGGGGAGGAGGAAAGGGAAAA A G GA A A G GAAAAAAGAGGGGAAAGGAAGGAAAGAAAAAA GAA G GAAGGAGAGAAGGGAAAGGAGGGAAAAGGGGAAGACC GAGC G G G G A G A A A A A A G G G G G GCCAAGGCCAAGAGGAGGGAAAAAA G GCCGGAGGGGGAAGGGGCCAAAAAAAAAAGGAAGGCAAAAA C CAA A GCAGGAGAAGGGAGAAAGGGGGAGGAACACCGGGGGG G G G G A A C C A A A A C C A A A A G GAA $A \operatorname{GGGCGGCAGGAAAAAGAAAA}$ A GAGAAAGCAGGAAAACCAGGGAAAAGGCCCCAAGGAAGGAC GAGAGGACAAAAGGGGGGAAGGAAAAAACCAAAAAAGGGGGG C C G G A A A A A A G G A A A A A A G G G G G G A A A A A GAGGGGG GA G G A A A A A A A A A A CAAAC GCCGAGGAAAAGGGGCCGGAAAAAAGGAA GAGGCAGGCCAAAACCAAGGAAAACAGAGGGAGGAGGGAAAAG G GAGGGCACCAAGAGGAAAAAAAAGACAAAGGAAGGGGCACA G GACGGAAAAAAAAAAAAAAGGCCAGGGAAAAAAAAAAAAAA
 ACGAAGGAAAACAAGGCCCCGGAAAAGGAAAACCAAAGAAAA A A A A A A A A A G GAGGGGACCCAAAAAAGGAAGGAGAAGAAAGAG G GAA A G G G A GAGGGGAGGATGGGGGACAAAAAGAGGAAGAAC G G G G GAGGAAAGAAATAAAAAAGGAAAACCGGGGCCACACAA C C G GAA $A \operatorname{GAAAAAA} A G A A G G G G C C A A A A A A T T A A A A A A C C G G$ A A C C A A A A G G A A G G G G A A G G G G G G G G A G A C A G A A A A G A G G G A G GAGGGAGAGAAGAAAGGAGAAAAGGGGGGCCGGAACAAAAA C CAA $A \operatorname{GCC} C \subset G G A G A A C C A A G G G G G G A A A G G G A G G G G G A G G G$ GAGGAAGGAAGGCCGGGGGGAAGAGGAACCAAGGGGCCGGGG G GCAGAAAAAAAAAAAGGAAGGAATAAACCAGAAAAAGAAGG GAAAAGGGCAAGAAAACCAAAAAAAAGGAAGGGGAAAACCAC C C G A A A A A G GAAAAGGAAGGGGAAAAGGAGAGGGAACCAACAC A A G GCCGGGAAACCAAGGCCCCGGGAAGACGGAAAAAAAAGG A A G G A C G G A A C C A G G G A A G A C C G G A G A G C CAAAA A A C CAA A A A A A A A A G G G G G G G G G G G GAAAAGGAAAAAAAAAATTCCAAGA G GAGAAAACCAAAAAGAAAGAAGGAGAAAAAAGGAAGGAGAA G G A A A A A G A A A A G G G GCAACAGACGGGGGAATCCAAAAAACC A G G A A G G GCCCCAGAGCCGATAAGGAGACCAAAAGGACGGGG A A A A A A C C A A A A A A A A G G A A A A A A G GGGAAAAAAGGGGAA G G A A A A G G G G G G A G A G G G G G G G G A A A CAGGGAGGGGAAAAAA $A \operatorname{A} A$ A GAGGAAAACAAAAACAAACAAAACCGGCCGAAGAAAAAAAG A GAAAAGGAACCCCAAAGGGAGAAGAAAGAGGAAGGGGAGGG
 G GAAGAACAAAGAAGAGAGGAAACAGGGAACAGGAACCAAGAG A A A A G G G A A G G G G G C C A A A A G G G G A A A A G G G G A A A A G G G G A A AACCGGGGAAAAAAAAGGAAGGAAGGAACCGGAAAAGGCCAA C CAACCAACCAGAAAAGGGGAAGGAACCAACAAAAAGAATAG G GAA $A \operatorname{GGG} \mathrm{G} A \mathrm{~A} A A A A A A A A G A G G G G A A A A G G G G G G A A A A C C G G$
 G G A A G A G G G GC C A A G G A G A A G G A A G G G G A A A A A G G G G G G G A A G G G GAAACAAAGGAGGGAGAAGAGCGGAAACAAGAAAAGAAA AA GAGGAAGGTTGGAAAAAAAAAACCAAGGGGAAGAACAAGG A A A A A GA $\operatorname{A} G \mathrm{G}$ G GAGCCAGAAAAGGAAAGAAGGGGAACCGGGG A A G G A A A A G G A A C C G G G G G GAGAAGGAACCAGAAAATXAAAG G G A A A A G G G G G G G GAAA A G GAAACAAACAGAAGGA GAACCGG G G G G A G G G A A C C G G G G A A A A G A G G G G C C G G G A A A G G A G A A G A GA $A$ A A A A A $\mathcal{A} G A A A G G G G G G G G G A A G G A G A A G G A A G G A A A A G G$ G GAA A G G GAA $A \operatorname{A} G A A A A G G G G A G A A G A A A A A G G A A G G A A A C A A$ G G A A A A T TAAAGGAGGAAGGAAAAGGAAAAGGAAAAAAAGAA TA $A G G G G G A G A A C C A G A A A G C A G G G G G A A A G A G G A G A A C C G G$ G G G G G G G G G G A A G G A A G G A A A A C GAACCGGAAAAGAAACCCC $C \subset A A A A A G A G C A G G G G A T G G A A A A C A G G A G C C G G A G C C G G G G$

G GAACGGAAGGGGGAGAAACAAAAGGGGGGCCGAGGGACCGG A A A A A A A A G GAACCGGAGAAGGCCGGGGGAAAAAGGGAAAGG G G G GCCGGGGAAGCAAGGGGGGAAAGGACCGGGGAAGGAAAG G G G GAA AGCCCCAAGGGAGGAGACCCAAAACCCAGAGGAAGG AACCGGGGCCGGACCCGGGGGGAAAGGGCCCCCCAAGGACAG A G G GAACCCAAAAAGAGGAAAAGGAGGGAAAAGGAGGGGGAG A A A A A ATTAGGGCCAAGGAAAAGGAAAAAGAGCCGGGAAAAA AAAAGGAAAAGGAGGGAACGAGGGGGGAGGAAGAGGGGAGAG GAGGAAGAAACCAAAAAAGGGGGGCCGGAAGGAAAAAAAGAA G G G GAA A GAAAAAACCGGGGAAAAGGGGGGAAGGGGAAAAAA G GAA A GCCAAGGGGCAAAAAGGGGGGAAGGAAAGGGGAAAAA G GAGGGCCGGAAGGAAGGAAGGAAGGAGGGCCBAAAGGCCGG G G A A A A A A G GCCGGGGAAAAGGTTGGGGGGGGAAGGCAAAGB A A A A A ACCGGAAAACCCCGGAACCGGGGAAAAGGGGAAGGAA G G G GCCGGAAAAGGAGGGAAGGGGCCAAAAAAAAAAAAGGAA AACCAAGGGGGGGGAAAAGGGGGGGGTAAAAAGGCCAAAACC T TA $A$ A $\operatorname{GAA} A G G G G A A A G C C G G A A A A A A G G C C A A A A C C G G G G C C$ G G G G G GAACCGGAAAGAAAGAAAAAAAAACAAAACCAAGAAA G G G GCCGGAAGGGGGGAAGGAACCGGCCAAGGAAAAGGAAAG C CAAG GAAAA A $A \operatorname{AGGGAAGGAAAAAAAAGGGGCAAAAAAAAAAA}$ $C \subset G G G G A A G G A A A A C C G G G G G G A A A G C A G G A A A A A A A A G A A A$
 GAGGAAAAAAAAGGGGGGGAGGCCAAAACCAAAAGGGAAAGG CCGGCCAACCAAAAGGAAGGAAGGGGGGAATTGGGGAAAAAA A A C C A A A A C CAAAAAATACAAAAACCAAGGAGAAGGAAAAAA AACCAAGGAAAAGGAAAAGGGGCCCCGGCCGGAAAAAAAAGAA GGCCAACCAAAAAAGGGGCCCCAAGGCCGGAACCGGG
GAAGGAAGGCCAAAAAAAAGGGGGGGGAAGGAAAAGGAAGG G G G G G G G G A A A A G G A GCC G GC C A A G G G G G G G G A A G G A A A A G G AAAACCGGAAGGGGGGCCAAGGGGCCAAAAGGGGAAGGCCGG A A A A A A A A G G G G G GAA $A \operatorname{G} G A A A A A A A A G G A A A A G G A A A A C C A C$ AAAAGAGGAAGGGGGGGGGGGGGGGGCCGGGGGGAAAAGAAA
 A A G G G G A A A GAAAA A GAA $A \operatorname{A} G C C G G A A C C A A G G A A A A G G A A C C$ A A A C A A G G A A A A $\mathcal{A} G A A G G G G A A G G G G G G G G G G A A A A A A A A C C$ C C G G G G G GCCGGCCAAGGCCGGAAAAAAGGCCAAGGAAGGGG G G G GAAAAAAGGAAGGAAAAGGGGAAGGGGGGAAGGGGGAAA AAGGAAGGAAAATTAAAAAAAAAACCAAAAGGGGAAAACAAA G GCC $C$ G G G A A A A C C G G G G G G G G A A G G G G C C T T A A C C A A A A C C
 G G G G G GCCGGAACCAAGGAAAAGGGGGGGGAAGGGGGGAAAA G G G G G G G G A A G G A A A A A A A A G G A A A A A A A ACCAAAAAAAAAA AACCCCGGAAAAAGAAAGAAACGGGGGACCAAAAGAGAAAGA G G A A A A A A A A G G A A A GCC G GCCGGGGAAGGGGAA GGGAAA G G
 G G T T G G G G A A G G A A A A C A A A A A A A G G A G G A G G G G G G G G G A G G AAAAGAAAAGGGCAAGAAAAACGGCAGGGGAAAAGGGGAGAG A A G GAGGGGAAGAAGGAAATAGAAGGGGGGAAGGAACABAAA AAGGAACCGGGGAAGGAACCAAGGGGAAGGCCGGCCAAGGAA G G G G A A A $\mathcal{A} G G G A A C C A G G G G G G G G G G A A A A A A A A A G A A G G A A$ G G G G G A A G G G G GAA $A \operatorname{G} \operatorname{A} A A A A A C G G G G G G G G G G A A A G G A A A G G$ AA G G A A A A A A A A A A G GAAAAAAGGCCGGAAAAGGGGGGACAA
 AAGGGGGGAAGGAAGGAAAAGGAGAAAGGGCCGAGGAAAAGG G GAAAGTTAAAAAAAGGAAAAAGGGGAACCAAAGAAAAAAAA G G G GAACAAGGGAACACAAAAAAAAAGGAACAAAGCGGAGAA C C G GCCGGGGAAAGGGGGGGACAGAAGGGAGGCCCCAAAACAC C C G G G G G G G G G G A A G G A A A GAAAAAAAAAAGAAAAAC G GACAA $A G G G C C A G A G C C A A G G G G G G T T A A C C A A A G A A G G A A G G A A A A$

G GAGAAAGGGGGGGCAAAGGAAGGAAGGAAAAAACAGGAGGG A A A ACCAAGGAAGGCCGGGGAGGGACGGCAAACCAAAGAAAA C C G GCCAACCAAAAAAAATTAAGGAAAAGGAAAAGAAACGGG G GAAAAAGATAAACGGGGAGAGGGGGAGGGGGAGAAAAGAAT GAGGGGAAAAGGAGAGGGGGAAAAGGAAAAAAGGGGAAAACAC G G G GAA A A A A GAGGACAGCAGAAAGAGAAGAAAGAAAAGAAA A A G G GAA $A \operatorname{AGCC} G A G G G G A G G G C A A A A A G G A C G G A A G G A G A A$
 A A G G A A G G A A T T G G C C G G A A A A A G G GAACCGGAGAGATACAA $C \subset C C A A A A A A A A G G A G A A A G A A A A A A G G G G A A A A A A A A A A G A$ A G G GAA A G G G G GCCAAAAGGAAAAGGGGAGAGAAAAAAAC AA A A G G G GAAA A G CA $A$ A A A A G G GAAGGGGAAGGGGAAAAAA G A A T A A A A A A A A A A G G G A A A A C GAGGCCCCGGGGAAAA GGGGAAGG $G G C C A G C A A G A G C C G A A G A A C C G G G G A A G G A A G G C C G G G G G G$ G G G G A A G G G GCCGC G G A GC CAA G G G GAAAAAA A GAA G G G G C C $C \subset A A G G A A G G G G C C A G G G A G G G G G A A G G G G A A A A A A G G G G G G$ A A G GAA A GAGAACCGGCCGGGGAGGGAAAAAGAAAAAAAACC C C A G A A A A G GAA $A \operatorname{GGGGG} \operatorname{GAAAAGAGGAAGGAAAAAAGGAAAA}$ C CAA A A A G GAACCAGGGGGGAAAAGGAGGGGGAGAGCCAAGAG A A G G A A G G G G G G A A G G G G A A G G G G G GAAAA A G C C G G C C A A A A G GAAAAGGAAAAGGAAGGAGAGAGACAAGGAAGGCCGGGGAG $C \subset A A G A A A G G A A A A G G C C G G A A G A C C A A G G C C G G A A G G A A G G$ G G A A A A A A A A A GGGAACCAAAAAAAAAACCGGGGCCGGAA GA A A G G G G A A A A A A A A G G A A G G G G A A GAGAGGGGGGGGAAAAAA A A A A A A A G G GAA A G G G A CAAAAAAGGGGGAGAAG GAAAAAAA G G G GAA $A$ G A A A A A A CAGGCCAAGAAAGGAAGGAAAAAACCCC C CAAGGAGGGAGAAACAAAAGGAAGGAGAAACCCAAAAAGAA A A A A G GAAAA $A \operatorname{A}$ GAAAAAAGGGGAAAAAACCCCAAGGGGAGGG
 GGAGAACCAAAGCCAAGGAAGAAGACACGGCCAAGGAAAAGG A A G G A A A A G G G G G G A A A A $\mathcal{A} G G G G A G A A C A G A A A A A A A A G G G G$ AAAAGGCCAAAAGGAAAAAAGGCCAACCGGGGAAGGCCAAGG A GAGAAAAAAAGGGAAAAAAGAAAAATACCAACCGGCCAAGG G G G G A A C C G G G A A A G A A A G G G G G G G G A GAGAA G GA G G A A C T T G A A A A A G G A A G A A A G G T T A GAAAAGGAGAAAACCAAAA GA G G $G G A G A C G G A A G G G G A A G G C C G G G A G G A A A A G G G A A G A A A G G A$ GAGGAAGGGGCAAAGAGGAGAAAACAGGGGAAAAAGAAAAGG G G GAGAAAGAGGAAGGAAGGAAAGGAGAAAAAGGGGCCAACAC A A G G G GCCGGGGAAAAAGGGAAGGAAAAAAAAAAGGAAAAAG G GAA A GAA A GCCAAAGCCGGAAGGGACAAGAAGAGGAAAAAA C C G G A A A A A A G G G A G A A A G GAA A G G G G GA GAAAAAA G G GA G G G A GCAAAGGGGAAAGCCGGAGACAAGGCCGGAAAAGGCAAA G G
 GAGGATGGGGGGGGGGGGAAAACCCAGGGGAAAACCCCAGAA G G G G G G A A A A C C A G G G A A G G GAGGAAAAGGAGGAGGGGAA GA G GAGAAGGGGAAAACCGGGGAACAGAGAGGGGCCGGGGAAAA G G G G G G A C G A A A A A A A A A A A A G G G G GCCGGAAAAAAAAAAAA G GAACCGAAGGGGGGGAGGGAAAAAAGCGGGGAAGGAAAAGG GAGGGGAACCGGGGAAGGAAAAAAGGAAAAGGAAAAAAGGGG A A A A A GAAAA $A \operatorname{A} \operatorname{A} A A A A G G G G A A G G G G G G G G A A A A G G G G G G A A$ C CAAAAAAGAGGGACCGAGGGGAAAAAAAAGGAACCAAGGGG A A C C G G G G A A G G C C G G A A G GAAAAAAGGAATAAAAAAA G GAA A GACAAAGGAAAGAAGGAAGAGACAAAAAAAGAGGGGGGTTAC C C G G G GCACAACACAGCCGGGGGGAACCGGAAAAAAAGAGAA G G GA $\operatorname{G}$ GAGGACCACGGAAAAAGAAGAGGAAAGAGGAAAAGAG A G G G A A G G A A G A G G A G G G A A A A G G A G G G A A G G G G C C A A G G G G G GAGCCAAGGAAGGAAAAAAGGGGGGAAGGCCTTCCGGAAGAG A A A GCCAACCCCAGGGGGAAGGGGCCAACCBAGGGGAGGGGA $G G A A G G C C G G G G G A A A A A G G G G G G A A G G A A A A G G G G G A A A G A$

T TAAAACAGAAAGAAGAGGAAGGAAGGCCAGAAGGAACCGG G G G G A A G G C C C A G A A G G A A A GACC G GACGAAAGGACAACC G G G GAA A G G GCCAAGGGAAGGGGGGGCCGGGGGGGAGGAGACAA G GAA A GAACCGGCCGGAAAAGGGGGGAAAAGGAAAGAGAGAA G GACAAAAAAAAAAGGAAGGGGAAGGGGGGAAGGGGGGGGGG
 A A A A A GCCGGAAAAGGACGGCAGGGAGAAAACAAAGAAACAA $G G G G A A G G A G A A G G G G A A A A C C G G C C G G G A G G A G A A A A A A G G$
 $A A G A A A G G G G A A G G G G A A A G G G G G A G G G G G G G G A G G G G G G G A$ G G G GAAAAGGAAAAAAGGAAAAAAGGGGCCAAGGGGAAAAAA G G A A G G G G G A A A C C G G A A G G A A A A A A G G G G G G G G G A G G G G G G A A A A A A G G A A C CAAAACAAGGGAAAGGACCAAAGAAAGAAAA G GAGGGAAAAAGGGCACAAAAAGGGAAAGGGAAAGGAGGAAA G GTTAGCCAAAAGGAATTCCAACCAAAAAAAGAAAACAGAAA AAGACCAATAAGAAAAAAAAAAGAGAACGGGGGGAAAAAGAA G G A A A A G G A A G G G G G G G A A A GAAAAGGGAAGGGGAAAAAAAA G G G G G G G G A A A A A A G G A A A A A G G GAATTAAGGAA GA GAA G C C $A G A A A A G G A A G G A A A A A G A G G G A A A A A A G G G G G G G A G G G G G G$ G GAAAAGGAAGAAGGGCCGGCCGAGGGGGGCCGAGCAGAAAG G G G G G G G GAA G G G GAAAAAAAAAGGGGAAAAGGGGGGGGAAGA

 GAGGGGGGGGGGCCCCAAGGAAGGAAGGAAAAGGGGAACCBG G G G G A A G G A A A A G G G G A A G GCCAAAAGGGGCAAAAA G G A A G A A G G A A A A A A G GAAAA A G $A \operatorname{AGGGGGCCAAAAAAGGAAGGCAAAAA}$ GACAGGGGGAGGGGCCAAAGGAAGGGGGGGGGAGAGA
G G G G G G G G G A G A A C C G G G G A A G G G G G G G G G G A A G G G A G G G G A A A A G G G G G A A G A A GAAAAATTGAGGAGGGAAAAAAAAAGGG G G G G G G G G C C G GACACAAGGGGGGAGGAACGGGGAGAAAAAG A G G G C C G G C G G G G G A A A A G G G G G G A G G G G A C C A G C C C A A A G A AAAAAAAAGAAGGACCAGACGGGGAGAAAAAAAAAAGGCCGG A A G G G GAAAAAAGGGGAAACAAAAGGACGAAAAGGAGGAGAA C C C C A A A A A A CA $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A A A A A A G G G G A G G A A A A G$ A G G A TAGGCCAAAAGGAAAGAGGAAAAAAAAACCAGCAAA G G G G A A A A C C A A A A A A G G G G G G G G A A A G G G G G G G G G G G G G A A A A GAGGCAAAAAAAGGAAGAAACCGGGGGGAAAAAACCAAAAAA ACAAGGGGAAAAGGAACAGGCCGGAAAAAAGGAGAGAAGAAA G G G G A A A A C C T T G G G G G G A A G G A A G G G G G G A A G G G G G G C C A A A A A A G G A A G G G G A G A G G G G G G G G G A A G G A A G G A A A A C C A G G G G G G GAAGGAGGGGGAAAAAAGGAAAAAAAGCAAAGGAACAAA C C G G A A C C A A G G G G A A A A G GACCAAAGAAAAAGGAGCCAAG G AAGGAAAAGGAAAAAGGGAAAAGGAGAAAAAACCAATTAAAG G G G GAA A G G GAAAAAAAAAAAAGGGGAAAGGGGGAAAAAAAA C C G G A C G A A A A A A G G G G G G A A G A G A A TA G G A G T T G A A A G G G G G G G G G G A A A A A A A A G G A A A A A A A A A A GGGGGGAACCCAAA G G AAAAGGAAAAGGAACCAAAAGGAAAACCGGAGAAAAAAAAAA G GAA A G G G GAAAAAAAGGAAGGAGAGAAAATTGGCCAAGAAA A G G G GAGGGGAAGGAAGGCCCCGGAAAAGAGGAAAAGGAAAA A A A A A A G G G GCCGGAAAAGGAAAAAGCCAAGGAAAAAAAAAA
 G G G GAACCGGAGAGAAGGAAAAAAGGGGAAAAGGGAAAAGGG G G G G G G G G A A G G A A A A G G G G A A A A A A A G C C G G A A G G A A A A G G AAAAGGGGAAAAGGGGGGAAAAGGGGAAGGAAAACCGGCCAA G G A A A A G G G G A A A A G G G G G G G G G G C C A G G G G G A A A G G G G G G A G GAAAAGGGGGGAAAAAAGGAAGGGGAACCAAGGGGAABGAA G GAAGGAAAACCGGAAAAAAAAGGAAAGAAGAGGGGAAAAAA AAAAGGAAAACCAACCGGAAGGCCAAAAAAAAAAAAAAAAAA $G G C C G G A G A A C C A A A A G G G G A A G G G G A A G G A A A A A A A A G G G G$

CAGGGGAAAACCGGCCAAAAGGCCAAAAAAGGAAGGGAAAGG A A A A A A A A A A C C G G G G A A A A GAAAAA $A$ A GAA GAAACCGGAGGG
 G G G G G G G G G GAAAAAAAAAAGGCCAAGAAGGGAGGGAAAAAA
 A A A C G G G G G G A A A A $\mathcal{A} G G G G A A G A A G G C A G G G G G G G G G G A G A A$
 AAAACCAAGGAAGGAAGGGAACCCAAAAAAGGAGGGGAGGAA A G G G A A G G A A G G G G G G A A A A G G G G G GAAG GAA A A A A G GAAA A GGAAGGCCCCGGAAGGAAAAGGGGAAGAGAACAAAGAACCGG A A A A A A A G G G G A A A A A A GCCGGAACAAAAGAGACCACCACAA G GAGAGAAAACCGGCCAAAGAGACGACCAGAGAAAGAGAGGG AAAGGGCCCCAAAGCAGGAGAAAAGGAGAGGGAAAAAAGGGG G GAA $A \operatorname{GAAAAAAACCAAGAAAGGGGGGCCGGGGAAGGCAAAAG}$ G G G G G A A A GAAA $A \operatorname{A} G \mathrm{G}$ GAAAAGGAAGGCCAAGGAAAGGGAGAA AA $\operatorname{A} G \mathrm{G}$ GAACACAAGAAAAGGGGAAAAAAGGAAAAGGAGAAAA A A A A A A A A GAA A A A A A G GAACCCCAAAGGAGGGGGGGAGGAA AAAAGGAAAAGGCCGGAAAAGAAAAAAAAAAAGGAAGAAAGG $G G A A G G A A A A A A A A A A G G G A A A G G G G A A G G A A T T A A A A A A A A$
 AAAGGGACGGGGAAGGGACCGAAAGGGGAAAATTAAACCCAA AACCAAAAGGAAAAAAGAATCCCCGAAAGAGGAAAATTGGAG A GAA A G A A A A A A A A A G GACCGAAGGGGGGGAAAAAAAAAAAA G G A A A A G G G G A A G G G G A A G G C C A G G G G A C CAA G GA GAAAC C C GACAAAGGAAAGAAGGAAAAAAAACAAAGAAAGAGACCACAA AAGGAAGGAAGGAAAACCGGAAGGGGGGGGCAAGGGAGAGGG A A A A G GAAAGAAACAAGACCGGGGAACCGGAAAAACCCAAAAA G GACAAGAAAAAAGGGAAACAGAGAGAACCGAAAAAAAAAAG AAAGGGAAAAGGGGAAGGAACAAAAAGGAAAACCAGAAAGCC AAAAGGAATTGGGGAAAAAACCGGGGAAGGAAGGAAAAAAAA G G G GCCGGGGGGCCAAAGAAAAGAAAAAAAGGAAAACCACAA G GAGAAGGGGGGAAGGAGGAAAAAAAGAAGGGCAAAAAAGCC AAGGCCGGGGAACCCAGGGAGAAAAAGGAGAAGGGAAAGGAA G G G A GAGGGGCCAAAAAGAACAAAGGAAAAAAGGAAGAAAGAG A G G G A A G G G G G A C A GAGAAGAAAAAGCCAAGAGGGGAAAA GA CAAAAAAAAGGACCAAAAAAAAAAGGGGGGAAGBAACCGGGG GAAACCGGGGAAAAGGAGAAAAGGGGGAAGAGGGGAAAGAAG A GAGAAAAAGAGAGTTAAGAACGGAAAGGGGGAAAAGAAAGA GAGGGGAAGGAAAAAAGGGGGGGGGGCCGAAAGGGGAAAAAA G G G A A GA G A A A A GA GAAAAAGGGGAAAAAGACAAGGCGAGAA A G GAGGGGCCAAAGACGGGAAAAGAATAGGGGAAGGGGAAAA A A A G G G A A GACCAACCGGAGAAAAGGAAGGGGAAGGGGAAGBG AACCGGGGGGAAAAAAAAAAAAAAAAAACCGGAAGGAAGGGG A A A A G GAAAAGGCCAAGGAAAGAGCCGGAAAAGGGGGAAAAA
 A GCCAAAAAAAAGGAAAAAAGGGGAAGGGGAAGGGGGGGGGG G G A A A GA $\operatorname{A} A A G G G G A A C C A G A A G G G G A G A C G G G G G G A A A A C C$ $A C A T A G A A G G G G A A A A T T A A G G G G A A G G G G A A A G A C G G G G G G$ G GCCGGAAAAAACCAACCAGAAAAGAAAACGGAGGGACAGGG GAAAAACCAAAGGGAAGGCCAACCGGCCGGAGGAAGAAAAAG G GACAAAAAGGGAAAAGGAAAAAAAAGGGGCAAAGAAAAAAG A G G G G GAA $A \operatorname{A} \operatorname{A} A C C G G A A A A A A A G G G C C A A A A G G G G G G A A G G$ A A G G A A A A G G A A G G G G G G G G A A G G G G C C C C G G A A G GAAAA C C AAAACCGGAAAAGGGGAAGGGGGGCCAAGGAAAAAAGGAAGG AACCAAAAAAAAAAAACCCCAGAGACGGAAGAAAAAAGAGAA A A C A G G G G G G G G G G G G A A A A G G A A A A G G A A A A G G A A C C G G G G G GAA A G G G G G A A A A G G A A A A G G C A G G G G G G A A C C G G A A A A G G G G G G G G A A A A G G A A G A A A G G G G A A A A GAGGAC CAA A A CAA G G G G G GAAAGGGGGAAGGAAAAAAGGAAAAAAAAAAAAGGCCGG

GGCCAAAGGGAACAAACCGGAAACGAAAGGAGAAGGCCAAAA A A GACCAGGAGGAAAGGGGGGGGGAAAAAGAAGGGGGGCAAA AA $A G A A A A A A G G A G G G A A A A C A G A G G G G G G A G A G G G G A A A A G$ AGAAAAACCCAACCAGAAGGAAGGACAAAAAACCAGGGAAAA AACCGGAGAAAAAACCAAAAAACCGGAAAAAAGGGGGGAAGAG AAAAGGGGAAAACCCCGGCCAAGGAAGGAAGGGGGGCCBGAG AGGACCCAAAGGAAAAAACAAAAAGGAACCCCGGAAGAAAAA $G G A A C C G G A A A A G G G G G G C C G G A A G G A A C C G G A G G G G G A A A A$ A G G G G G G G G G G G G G C A G A C A A A A A A A G G G G G G A A G G G G G G C A GGAAGGCCCCGGCCGGCCGGGGGGGGAAAAAAGGAAAAAAGG A A G G G GAAGGAACCGGAAAAAACCCCGGGGAAGGCCCAAAAA AAAAGGCCAAGAAAGGAAAAGGGGGGAAGGGGAAAAAAGAAA G GAGGGGGGGGGAAGGGAAACAGGGGGAGGGAGGGGAAAAAA A A A A A GAA A G G A A A A A $\mathcal{A} G G G G G G A G G A A G G A A G G A A A A G G A A$ A A G G G GAAAAAAGGCCAGGGAGGGGGGAGAGAGGAAAAAAGG G GAGGGAGAGAAGAGGAGGGGGAGAAAGAAGAAAAAGBAGAA A A G G G G G G G GAAAAAAAACCAAGGAAGGAACCAAAAAACCAG G GCCGGAAGAAGGGCCAGGGAGAAAAAACCAGAAAGGGGGGG $A C G G A A A A A A A A G G G G A G G A A A C C A A C A G G G G A A G G G G A A A A$ G G G GAA GAAACCAACCAACCAAAAAAAAAAAAGGAAAGAAAA A GAAGGGGAAGGAAAAAAAAAAAGGGGGTTAAGGAAGGAGAG A GAGGGAAGGAAGGCCAAAAGGAAAAGGGGGGGGAACCAGAA A G G G G A A A A A G G G GAA A GAAGGACGGGGCCAAGAAGAAAACC A A G A A ACCAAAAAACCGACCCCGGGGGGAAAAAAGAGGBGAA AAAAGGCCAAAGAACCAGAGGGAAGGAAGGAGGGGGCAAAAA C CAAAAGGAACCCCAAAAAAAAAAAACCAACCAAGGGGAAAA A A G G G GAAGGAAGGACGGAAAAGGGGAAAAAACCAGG
GCCGGCCGGAAGGGGCGAAGGGGCCAACCAGGGGGAAAAGG GAAAAGCCGGAAGGCAGGGGGGAACCAAGGGGAAAAAAGGGG G GACGGAAGGGGCCGGAGAAGGGGAAGGGGAAAACCAAAAAA G G A A G G A A G G G G A C G G A A G G G A A A G G G A G G G G A A A G C A G A A A A GAA A G G G G GAGAAAAAGGGGAGAAAGGGGCCGGGGAAAACC A A A A A A C C G GAGTTGGAAAAAAGAGAAAGAGGGGCCAAAAGB G G G G G G G G A A G G A A G G A G G A G G G G A G A A G A GA G GAC G G A A A A G G A A G G G A G G G G G G A G G G G G A G G G G G A G G G A A G G A G G G G G A A G G G G G G G A A G G G G G A A A G A A G G A A G G G A G A G G G A A G G A A A A A G G G G G G G G A A G G A A G G A A G A A G C C G G G G G C A A C C G G G G G G G G ACGGGGAAAAAAAAGGGAGGGGAGAAAAACCCAAAAAGGGGG G G G G A G A A A A C C A A A G G G G G A A C C C C G A G GAAA A G G G G C A G G
 G G A A A A G G A A A G A G G A A A G G G G G A G GAAAA A G G GAA G G G G C A $A G C C A A A A G G A A G G G A G G A G G A G A A A C A A A G G A A A A G G G G A A$ AAAAAGGGGGAAGAGGGGAAAAAACCAAGGAAGGAAAAGGGG G G A A A A A A A A A A G GAACCAAAAGGCCAGACAAGGCCAAGGCC


 $C \subset G G G A G G A A C A G A G G G G A A A A G G G G A A A A A A A G G G G G A A C A$ AAA A A A G G G G GCGGGGAAAAGGGGAAAAGGGGAAGGGAAAAA A A A A G G G G A A A A G G G G G GAAGGAAAAAAAAGGGGAAGGAGAA A A G G G G G G G G A A A A C C G G G G G A A A A A G GAGAAAA G G C C C CA G A GAAGATTGACCGGAAGGAAAAAAAAGCAAAAAAAAAAAAGG A A G G G G A A G G C C G G G G G G A A G G G G G G A A G A A A A A C C G A C C G G CAGGAAGGAAAAGGAGAAAACCAAAGGGAAAAAACCCCGGTA ACAAAAGGAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA A A G G A A A A A A G G G G A A A GAA $A \operatorname{AGAGGGCCAACCAAAACAAAGG}$ G G A A A A A G A A G G A A G G GACCGGCAGGACAAAAAAAAGAAAAG G G A A G GACAG GAA GAAGGAAAAAAGGGGCCAAAAGAAAAA G G GAAACCAAGGGGAGGGAGTTAAAGGGGAATGGAAAACC G GAA

AAAACCGACCAAGGGAAAGGGGCCGGAAGGGGGAGGAAAAGG A A G G G G G G G G A A G A G G A A A C G G G A G GAGAAC GAAACAAAG G G A A A A A A A G A A G GAAGGAGAACAAAGGGGAAGGGGCCGGAACC G GAAAAGGAACCAAAAAAGGAAAAAAGGAAAAGGCCTTGGAA A A A A A A A A G G G GCCGGAAAAAAGGAAGGGGAAAAAAAA GGGG AACCGGGGGGAAGGAAGGGCGAGGAAGGGAAAAAAAAGGGAA A GCCAAAGGAAAAAGGGGGGAAAGGAAGCCGGGGGGAAAAAA AAGGGGCCGGAAAGAAGGAAAAGGGGAAAAGGGGGGGAAAAG G G G GAAAAAAGGAAAAGGCCAAAGAAAGAAGGAACCAAAAGE AAAGAAAACCCCAAGGGGAGAGAATTAAAAGGAAGGGGAAAA G G G GAACCGGAGGGAGGGGGAGAAGGGAAGAAGGGGACAAAAA G G G GCCGGAGCAGGAGAGACAAGGAAAAAAAAGGGGGGCCAC AAAAGGAAAGCCAAGGAACCAACCGGGGAAAAGGAAAAGCAA C CAACCGGGGAAAAAAAAAAAAGGGGAACCAAAAAAGGAGAA G G G GAAAAAAGGAAAAAGCCGGAAAAAGGGCCAAGGAAGAAA G G G G G GCA $\mathcal{A} G A A G G C C G G A A G G G G G G A A A A C C G G G A A A A A G A$ G GAA $A \operatorname{GAA} G \mathrm{~A} A A A C G G G A G A C G A C A G G G A A A A G G A A A G G G G G$ G G G G G G G G A A G G A A G G G G G G G G A A A A A A A A A G G G G A A G G G G G G AAGGGACAAGCCGGAAGACAGAAGATAAGAGAGGGGGAAGAT CACCAAAAGGCCAAGGAAGGAAAAGGAAGGAAAAAAAAAAGG AGGGAAAAAAAAAAAGCCGGAAAAGAAAAAGGAAAAAAG GAA GAGGAAAGAGGGAAGGAAGGAAGGGGCCGGCCGGAGGGGGGG A A G G G G G G G G G A T T A C A A G G G G A G A GAGAAGGGGAAG GAAAC GAAGGGAAAAGGAAGACAAAGGAAAAAGAAAAGGGGGACCAC A G A A A GAAAACCAAGGAAGGAAAAAAGGCGGGCCGGGAAAGG $C \subset C A C C A A A G A A A A G G A A A A A A A G G G G G A A C C A A A A A A A A A A$ AAAAAAGGCCGGGGGGGAGGAAAACCAAGGCCAAAAAGAGAA G G A A A A G G A A A A $\mathcal{A} G G G G G G G G G A G C C G G A A A G G G A A A A G G G G$
 C CAA AGAAAAGGAAGGAAGGCCGGAAGGAAAAGGAAAAGAAA A A G G A A A G A G A A G A A A C A G G G G A C G G G A A G G G G G G G G G G G G G $C C G G A A G G A A G G A A A A T T G G G G A A A A G G G G G A G G A A G G A G A G$ A ACCAAGAGGGGCCGGAGGGGAAAGGGGCCAGAGCCAGAACC
 A A A A A G G A G G G A A A A TAAAAGAAAGGCCGGCCAAAAAAAAGG A A G G A A $\operatorname{A} G A G G G G G G G C C G G G G A A A A G G A A A A G G A A C A A A A A$ G G G GAAAAAAAAAAGGAAGAGGAAGGGGAAAAAGAACAAAGB AACCGAACAGAAAACCAGGGGGGGAACCAAAAGGGGGGAGAG G G G G C C G A G G G G A A G G G A G G A C G A C CAGGGAAG GAAAA A A G G G GAA A GCCAAAGGGCCGGGAAACAGAGGGAATAAAAAAAGBA G G G G A A A G A GAAGGGGAAAAAAAGAGAAGGGGAAGAAAAGGG GAAGAAAAGAGGAAGAGGCCGGTTAAGGGGAAAAAAGGAGAA GAGGAAGAAGAAGGAGGGAAGAAAAAGGAACCGACCGGAGAA A G G GCCGGACCCGGAAAAAACCACAAAGAGAAAAGGGGAGAA
 A G G G G GAA A G G G A A A G A A A A C C G G G GAAGGAAGGCCAAAACC
 A A G G A A A A G G G G G G G G A A G G A A A A A A A A G GAA $A \operatorname{Ag} G G G A A A A$ GAGAGGACGGAAAAGAACGAGGAACCACACAACCAAAGAAAG A A A A G G G G A A A A C C G G G G A A A A GAAGGAGGAAAAAAAGAGAA G G G G G G A A G GAA GAAGAGAAAAAAAAAAAAAAAACCAACAAA C CAAAAGAAAAGGAGGAGAAAAAAGAAAAAGGCCCCGGAAAA G G G G A A A A A A G GAA $A \operatorname{GGGGAAGGCAAGCAAAAAAAAGCAGAAG}$ G GAAAAGGCCAAGAGGGGGGAAGGGAGAAAAAGAGGGGAGAA G G G A G A A G G G A A A T G A G G G G G G G G A A A C G G G G G G A A A A G G G G A A G G A A A G G G G G G A A A A A G G C C T T G G A A A A G G A A G G G G G G G G A A T T A A A A C CAA $A \operatorname{AGGGGGGGAAGGGGTAGGAAAAAACAGGGG}$ AACCGGAGGACACAGAGGGGAAAAGAAAAAAAAAAAAGAAAG AAAACCAAAAAAAACAAAGGGAAAAACCAAGGGGAAGGGGAA

CCGGCCAGCCAAAAGGCCAAAAAAGAGGAAAGGGGAAACACC G G A A C A A G A G G A A A G G G GCC G G C C G G G G G G A A A A A A G G G A G G A A A A A A G G A A G GCCAA G GAAAAAAAAAAGGAAGGGGCC GAAA A ACCGGGGGGAAGGGGAAAAAAAAAAAAGGGGGGAAAAGAAA A A G GAA A GAAGGAAGGAAAAAAAAAAGGCAAGAACCCCAAAA G G A A A G A A G A A GAGAGGGCAAAAGAAAAGGCAGGGGAA GAAA CAAAAAGAGGAGGAAAAAGGAAGGAGAGAGAGAAAAGGAAAA AGAGACGGGGAACCGGAAAAGGCCACAACCAAAAGGAGAGGG AAC G A A C G GAGGGGAGGAAACCGGAAAAAACCAGAAAGGGCC AAAAGGAAAAGGAACCGGAAAAGGAGAGGAGGGGGGGCGGAA G G G GAACCGGGAGGAGAAGGGGGAGGAACCAAAGACGAAGGG A G A G A A A A G G GCC C A G G G G GAA A G A A G G A A A A G G CA G G G G A A GAAAAAGGAGAAAAGGAGCCAAAACCAAGGAAAGGAGGGGCC A A A C G G A A G G GCGGTTAAAAAAGGGGCAAGGGGGGGAACCGG GAAAAAGGAAGGCCGGAAAAAAAGGGGGGGAAGGGGCCBAAA AGGAAGAACCGGCCAAGGAAAAAGCCAAAAAAAAGGGGGGAA AACCGGAAGGGGAAAAAAACAAGGAAGGAAGGAGGAAAAAAA A A G A A A A A G G A A G A C C G G G G G G A GCCAGCAGGGGGGCCACAA AA $A$ A A G G G G GCAGAAAAACCAAGGAGGGAGAAAA GAGGGGGG
 A A G GAAAAAGAAGGGAGGAAAAAAAAAAAAAAACGAAAAAAA C CAAAAGGGGAGAGAAAAGAGGACGGGAGGGGAGAAGGAAAA C CAAAAGGACGGCAAAGGCAAAAAAACAGGAAAAGGGGAAAA A A G G A A T T A A A A C C C C C C A A A G G G G G A A A C G G G G A A C C G G G G C C A A A A G G G G A A A A A A G G G GA G A A G C G GA G G C A A A A G G G A G G G GAA A G G G G G G A A A A A A A A A G GCCAAAAAAAAAAAAACAGAC A A A A A A A A A A G GAGAAAGAAGGAAAAGGGGAAAAAAA
A A A G A G G A A GAGGAAAAGGAGAACGGGAAAAAGAGAAGGGG1 G G GAAAGGAACCAAAAAAGGGGAGAGAGAAAGAGTTAATAAA $A C G G G G G G A A A A G G G G A A C C A A A A G G G A C G G G G G A A A A A A G A$ $A A C C G G A A A A A G G G G G A A G G A A A G G G A A G G A C A A A A G G G G G G$ AACCGGGGGAAAGGAAGAAAGACCGGTAGGGGGGAAGAAAAA AAAGAAAGCAAGAAGAAGAAAAGGGGAAAAAAGGGGAAAGAA AA $A G A G G G A A C C G A A A G G A A A A G G A A A A G G A G A G A C A G A A A G$ GAGGGGGAGGACACGAAAAAGGGGCAAAAGTAGAACCCBAAA A A A A A G G G G G A A G G C C A A G GAA A GAAAA A G G G A A G G C CAAA A AAAAGGGGAAGAGGAACCAAGAGAAAGGAAGGAGAAAAAAAA $G G C C G G A A G G A A A A G G G G G G G G G G A A G G A A C C A A G G A A G A G G$ A G G A G A G G G GAA A G A A A A A C G GACGGCCGAACAAGAAAAAAA G GCC $C$ G G G G GAGAGGGGAAAGGGAAGGCCGGAAAAAGAAAAAG $G G C C A A A G A A A A A A G G C C A A A C A G G G A A G G C C A A A A A A A A A A$
 AAAACCAATTAACCCCAACCAGGGAAAAAAGACCGGAAAGGG A A A A C C A A G G G G A A G G G G A G G G C A GCGGCAGGTTAC G G A A G G $A G C C A A A A A A C C G G G G G G A A G G G G C C A A A A G G G G C C G B A A G G$ G G G G A A G G A A G GAA $A \operatorname{GGGGGGCCGGAAGGAAAGCCAAAAAAAA}$ A GCCCCAAGGGAAGAGGAAACCAAGGAATAGGGGGGCCAACG
 ACAGGGCCGGAGAAAAAAAGAGCAAAGGAAAAGGGGAAAAAG G G A A G G G G G G A A CAGGCCGGGGAACCCCGGAAGGAAAAAAAA A G G GCCGGAAGGGGGAACAAACAGGGAAGAAACCBACAGAGG $G G G G A A G G A G C A G G G G C A T T G G G G G A G G A A A A G A G A A A A A A A$ A A A G A A C C G A A A A A A G A C G G A G G G A A G G G A GAGGAAAAAAAA GAAACCGGGGGGAGAAAAGAAAGGAAAAAAAAGGAAGGGGAA A A G G A G A A G G A A A A A A G G G G G G A A G G G G G G GAAA $A$ A G G A A A A AAGGGGAAAAGGAGGGACAGAAGGAAAAAAGACCAAAAAA GAG G G G G A A A C A A A A G GAGAAGAGAAGAAGAAAAATTAACAGGAG A CAA $A \operatorname{G} A A A A A A A G G A T T G A G G C A G A A G G G C A A G B A A A G G G G$ AAAAAACCAAAAGGAAGGCCCCAAAAGGGGAAGGGGGGAAGA

G GAAAAAAAAAAGGCAAGACAAAAAAAAGGGGCAAAAAAGGG G G G G A A A A A C G G G G A G G G A A A A A A A A A A A A C C G G GA G G G G G G
 G GAATTAAAAAAGGCCAAGGGGAAGGAAAAGGGGGGCCGGGG G G G GAA A G G GAGAAGAGGGGGGGAAAGGCACGCCAAGGCAAA C C G G A A A A A A C A A G C C G G G G C C G G C C G G G G T T G G G G A A A G C C G G G G G G G G A A A GAA $A \operatorname{GAAAGGAACCAAACAGCCGGGGGGAGAA}$ G G G GAAAAAAGGAAGGAAGGGGAAGGGGAAAGAAGGGGAAAA A A A A G G G A G G G G G G G G C C A A A A A A G G A A G GAAAA A G G G G G G G G AAAGGGAAAAGGAAACGGGGGGGGCCGGAAGGGGAAAGAACC G G G G G GAA $A \operatorname{GA} A A \operatorname{A} A A G G A A G G A A A A A A G G G G A A C C G A A A G G$ A A G G A A A A G G A A A A G G GACCGGCCAAAAAGAGCCGGGGCCAG G G G A G GCCGGGGAAAAGGAAAAGGAAAAGGAAGGAACCAAGAG G G A A A A A A A A C C G G A G G G A A G G G G G G G C G GAACCAA A GAAA A A A A A A A A A G G A A G GAAAACCGGCCCCCCAAAAGGAAGGAGAA G GAACCAAGGAAGGAAGGGGGGCCGGCCAAGGGGCCGAAAGA A A G G G G G G G G A G G A G G C C T T G G G A G G C A A A A $\mathcal{A} A G G G A A G G G G$ C C G G G G G A C G A A C C A A G G G A G G G G G G C C G GAA G G G G G G A A A A A GAAGGAAAAGGGGGGAAAAGGAAAGCAAAGGAAAAGGAAGAG
 AAAAGGCCAAGGGGAAGGGGGGGGAGAAAAAACCGGAAGGGG G G G GAACCCCGGGGAAGGAAAAGGGGGGGGGGAAAGGAAAGG G GAA $A \operatorname{GGA} A G G A A A A A G G C C C C G A C C A C G G G G G G G G G G C A G G$ G G A A A A G G G GCCAAGGAAAACCCCGGGGAAAACCAAAAGGAA GAGGAAGGGGGGCAGAAGAAGGAAAAAAAAGGAAGGGGGGGG G GAACCGGAAAAAAAAGGGGAAAAAGAAGGAAAAAAAGAGAA G GAGGGAAACAAAGCCGGGGAAAAAAAAGGAAAAAGAAGGGG G G G G G G G G A A A G G G C C A A A A A A A A G GAAAAAAAAA $A$ A G CA G G G G G G A A A G A G G A G G G A G G C A G A A A G GCC G G GAGGAA G GA G G A G G $G G A G G A A A G G C C A A G G A G G G G G G G G G G G A A G G A A G G A A A A A A$
 $C \subset A A C C A A G G A A A A C C A G T T G G A G G G A G A A G G A A A G A G A A G G$
 A G G G G A G A A A G GAA $A \operatorname{GGGGAGACCCCCGAGGAAGGAAGAGAAA}$ GAGGAAGGGGAAAAAAAAAAAGGGGGAAGAAGAACCGGGGAAA G G G G A A C C G G G G G G G G G G A A G G A A G GAAAAAAAG A A A A A A G C C G G G G G GAAAACCAAAAAAAAAAAAGGAAGGAAAAAAAGCCGG GACCGGGGGGAGGGAAAACCAAGGGGGGCACCAGCAGAAAGA A G GAAAGGGGAACCAAAAGGCCGAGGAAGAAAAAAAAAGGAA A A A A C C A A A A G GA GAGAAGGACGACAAACCAAGGGGAAAA GA GAGGAAGGAAAGAGAAAAGGCAGGGGAGAGAGAGAGAGAAAA C C A A A A A G A A G GA G G G A A GAGGAAAAACGAAGGGGAAA G GAA AACACAAAAAAAAAAAAGGAGGGAAAAAAGGAGGAAGGAAGG A A A A A GAA A A G G G G G GAAAAAAAAAAAAAACCGGGAAAAAAA $G G C C A A A A G G G G C C A A G G A A A A G G A A A A A A G A A A G G A A A A G A$ G GAGGGAAGGGGAAAAGGAAGGAAGGAAAAGAGGCCGGGGGG G GAA A A G GAACCGGCCGGAAGGAAAAAAAAGGCGCAAGAAAA G G G GAAAAAAGGAAAAGGGGAAAAAAAAAGGGAGAGCCACAA G GAACAAGGGAAGGCCAGAAGAAAAAAAGGCCAGAAGAAAAG A G G A A A A A A A A G G G A A G GA $\operatorname{A} A A A A A C C G G A A G G G G A G G G G G G G$ G G G G G G A GCC G G A A A A A A G G G G G G A A A A A A G G G G G GAAAC G G G G G G A A A A G G G G G GAAAAAGGAAAAGGAGAGCCGGCCC GAA G G A A G G G GAA A G A A G G A A A A A A G GAAAAACCGGAACA G GA G G G G G G T TAGGGGAAAGAGGAAGGGGGGCCAAGGAAGGAAAACCAAGA $C \subset G G A G G G A A A A G A G A A A A A A A A A G G G G G G A A G G G G A C G G C C$ A ATTGGAAAGAACAAGAAAAGGGAAAGGAAGGAAAACCBGAA AACCCCGGAAGGAAAACCAACCGGGGGGGGAAAACCAAAAAA $G G A A G G A A G G C C A A G G G G G G G G G G G G A A G G A A A A G G A A A A G A$ $A A G G A A G G A A A A G G G G G G C C A A A G G G A A G G A A A C G G C C G G G G$

AAAAGGAGAAGGGGAACCGGGGAAACAAAACCAAAAGGGGAG G G G G A A C A A A C C G GAACCAGGGAAGAAAAAAAAAAAGGCAGG A A GGCCCCAAAAAAGGCCAAAAAAAAAAAAAAAAATAATTGA GAGGAAAAGGAAGAGGAAGGAAGGGGGGAAAAAAAGAAAGAA CAAAAGGGGAAACCGGCCAAGAGGGGCCCCGGGGGGAAAAGA A A A A A GAGCGAAGGTTAAGGGGCCGGAAGGACCCAAAAAAAA A GAA A A G G G G G GAA $A \operatorname{G} G \mathrm{G}$ GAATTACACCAAAAGCCCCAAGAAA $G G A C A G A C A G G G A A A A A A A C G G C C G G A A C C G G A A A A G G A A A A$ $G G T A A A G G G G A A G G G G A A G G G G A A A A G G C A G G A G A A G G A A A A$ G GAA $A \operatorname{GA} A G G A A G G G G G G G G A G G A G G A G A A G G A A A G C C A G A A$ CAGGAAAAGCGGAAGGGGACAGGGATAGCCGGAGCCGGAAGG C CAACCAAAAGAAAAGGGAAAAGGGGGGGAAAAAAAGGAGAA T TAA A G A G A A G A A GAA $A \operatorname{AGGGGGAAAGAAGGAAGGAAAAGGAA}$ A A A A G G G G G G A A G G G GCCGGGGAACCAGGAAAGAAAAAGGGG G GAATAGAAAAGAAAACCAAGGAGGGAAGGAAAAGGAAAAGA G GATGGAAAAGGCCCGGGCCAAGAGGAGAGGGGGGGAAAAAA G GAGGGAGGGAAGAAAGGAAGGAAAAAAGGAAGGAAAAAAAA G G G G G A G G G G A A G G A G A A G GCCAAAAAAGGCCAA G GCC G GA G $G G G A G G A A A A G G A A G G A A C C G G G G G G A A C C A A A A A A A A A A A A$ A G A A T T A A T T A A A A A A A A G G G G A A A A A A G G G G A A A A A A T T A A AAAAAAAGGGGGGGGGCCAGGGGGAAAAGGAAGGGGGGAGAA AAAACCAAGGGGAAAACCAAGGGGGGGGAAAAAAGGGGGGCC G GCCAAAAAAGGACCAAAAAAAGGGGAAAAAGAACCAGAAGA
 A A G G G G G G A A A A A A A G G GAAAA A C C G GAAAA A GAAAAGGAGAA
 AAGGGGCCAAGGGAAGGGCCCCACAAAAGAAAAAGGG
GAAAAGGGGACAAGGGGAAAAGGGGAACCAACCCCAAGCAG AAAGAAAAAAAGAAAACCGGGGGGAACAAAGAGGCAAAGGGG G G G A T T GAAAAGGAGGAAAAAGGAGGGGGGAAAAGAAAAAAA A A G G G G G G A G G G A G A G A A G G G G A A G G G G G G G G G G A A A A G G A A A A G G G G G GAAGGGGGGGAAAAGAACCAGAAGGACAAGCCCGG AACCACAAAAAAAACCGAGGAAGAAAGGGAGGAAAGAAAAAA
 A A A A A A GAAA $A \operatorname{AGGGGCAAGGCCAGGGAAAAAAGGGGAAAGAA}$ AAAGAAGGCCAAGGAAGGGAAAAGCCGGAAAAGGAACCCCGG A GAGAAAACCAACCGGGGAAAAAAAAAAACGGGGAAGGCCGG G G G G G GAAAAA AAACCAAAAAAAAAAGGAAGGGGGGAGGGCC
 AA $A \operatorname{GGGA} A A A A A C C G A G A A A A G G G A A G G G A A G A G C A A G A A G A$ ACAAAAAAACTTGGGACACAGAAAGGGGGGGGAAAAGGAAAG G G G G G G A A G G A A A A G G T T A A G G G G G G A A A A C C G G A A A A G G A A AAGGAAGAAAAAGGGGGGAAAAGGAAGGGGGGGAGGGAAAAA A GAGAACACCGAGGAGAAAGGGAGAGAAAAAAAAGGAACCAG G G A A T T G G G G G G G G G G A A G G G G A A A A A A A A G GAA A GAA A A A A A ACCAAAAAAGGAAGGGGAAGGGGGGAAGGGGAAGAAAAAGB A A G G A A A A G G A G G G A A G GC C G G A A G G G G C C G G G G A A G G G G G G AAAAGGCCAAAGGACCGGAAAAAAGGAAAAGGAAGGGAAAAA T TAAA A $A \operatorname{G} G A A A A A G G G G G G G G A G A A G A G G G G G G A A C A A A A A$ G GAAAAGGAGCCAAGGAAAAGACCAACCAAAAGGAAGGAATT G GAAAAAGGCAACCGGGGGGAAAAAGAAGGGAAAAGAAAAAA
 $G G A A A G A A A A A A G A G G A A G G A A G G A A A A A G A G G G A A G G A G A A$ A G G GAAAACCGGAAAATTGGAGAAGAGGAGGGAAAAGGAGGG A A G G A GAA A G A A G GAAAAGGAAGGGGAAGGCAAAGGCCACAG GAAAAAAAGGGGAGGGGGCCGGGGAAGGGGCCGGCCAAGGAA G G A A C C A A A A G GAA A GCCGGAAGGAAAAGGAAAAAAAAGGGG G G G G T A G G G G A A G G G G C C G A A G GAAAAA A G G GAGGG GAAAAA T GAAAGAAAGGAAGAGAAAGGAAAGGGGGAAAAAATTAAGAGG

G G G G G A A A A A G A ACAAAAAAGGAAGAAACCCCGACCGGAAGA G GAA $A \operatorname{GAAAAAAGGGAGAAGGAAAGCCAAAAAAAAAAGGGGGG}$ A G G G G GAA $\mathrm{A} G A \mathrm{~A} C A C \subset G G A A A A A A A A A A A C A A A G A C G G G G G G$ AAGAACGAAAACGGGGGGGGGAAAAGGAAGGGGGAAAAAAGA AA $A$ A G GAAAAAAAAAAGGGAACAGGGAAATCGGGAAGAGGCC A A G GAAAAAAGGAACCAAAAGGAGGAGGAAGGAAGGCCAAAA G G G G G GAA $A \operatorname{GCCA} A A G A A G A A G A A G A G G G A G A A G G G A A A A A A$ A GAAA AAAAGGCCAGGGAAGAAAAAAAAAAAAAAGAAGGGGGG G G G G G G A A C C A A A A G A G A G G G G G G A T T A A A G G G G A G G A A A G G $G G C C A G G G A A A G G G G G A A G G G G A G A G G G A A G G A A A A C C G G G G$ ACTAAAAAAAAAAAGGGAGGAAAAAAGGAAGGAAAAGAAACC AAGGAAGACCAGGGGAGGCCCCAAGGAAAAAAGGAAAAGGGG $G G A A A A A A G G C C A A A G A A A A G G A A G A G G C C C C A G G A A G C C G G$ T TAAAAAAGGAAAGGGCAACAGAAGGAACCAAGGAAGAAGAA G GAAAAAAAAAGCCCCGGGGGGGCGACCCCAAAAGGAAACAA G G G G G G G G A A G GAAAAGGGGGATTAAAAGGGGGGGGAAAAAA G GCCAGAAGGAAAAGGGGAAGAGGAAGGGGGGAAAAGAGGAA GAGGGGGGAAGGAAAAAACCGGCCAAAAGGGGGGGGGAATAA $A C G G A A A A C C G G A A G G G C C A G A G A A A G C C A A A A G A G G A A G G$ A A G A G A G A A A A A G G A A A A A A A A G GAAA GAAAA G G GAAC G G G A A A A A A A A A A C G GAAAAGGAGGGCCCAAAAGGAGAGGGGAAGG G GAAGGGGCCGGAAGGGAAAAAAAAGGAGGAACAAAGAAAAA CCGAAGAAAAAGAAAAAGAAGGAACCGGAAGAGAAAAAAAAA G G G GAAGGAACCAAAAGGAAGGAAAAAAGGGAAAAAGA GAAAA G G G G A A C C G G G G G G G G A A G GAC G G G G GAA A A GA A A G G G C C A A G G G GAAAAGGGGGGAAAAGGGAGGGGAGGGAAAGAACGCAAA $C \subset A G A A G A G G A A A G A G G A G A A A G G G A G G G A A A A A G G G G A A A G$ G G G G A A G G A A G G C C G G A A A A $\mathcal{A} G G G G G G G G G G G G G A A G A A A A A$ G GCCGGGAGGGGACGAAAAAGAACTAGGGAGGGAGGGGACBG A GAGAGGGGGCCAAAAAAAAGGGGAAGGAAGGAAAAAAAAAA C C A A A A C C G G GAGGGGAAAAAAGGCCGGAAGAGAAACGAGAA G GAGGCGAGAAAAAGGGGGGACAAGGAAAAGGAAGGGGAAAA A GAAA $A \operatorname{A} A G G A A A G G A G G A G G G A A A A A A A A G G A A G G G G G G G G$ G G A C A A A A G G A A A A A A A GTTGGAAGGCCAAGGGGGGABAACC G G G G G GCCCCAAAAAACAAAGGGGGACAGGAGAGAGGGAACC TAAAAACCACAGAGAAGGAAAAGGCCGGGAGGAGAAGGAAAA AAGAAAGGAACCAAGGAGGAGGGGAAGGGAAACCCCAAGAGG GGCCAGAAAAGGCCGGAAGGAAGGGGGGAAAACCGGAAAAAA C C G G G G G G G GCCAACAAAACAGAGAAAGAAGGGAA GAGCGGG C CAAAACCGGGGAAGAAAAAAAAAGGAAGGAAAAGEAGACGG $C \subset C C A A G G A A A G G G G G A A G G G A A A G G G G G G C C A A A C G G A A G B$ G GAA A G G G A A A G G A C C G G T T G A A A A A G G A A A G A A G A G G C A G A A GAAGGGGGGAAGAACGAGGGAGGAAAAGGAAAAGGAACAAA GACCAAGGAAAGGGGGGGCAAAAAGGAAGGAAGGGGAAAAAA AAACAGGACAGGGGGAAGAAGGACCCGGAGGGGGGGAAAAGG G GAAGGAACCAAAAAGGAAGGAAGCCAAGGAGCCGAACGACA A A A A G GCCAA $C$ C $\mathcal{A} A A G G G G G G G A C G G G A G G G A G A G G A A A G G G G$ A GAA A G G A G G G G G A G G G G G G G G G G G G G A A A A A G G C C A A C C A A AAAAAAGGGGGGAAAAAAGGAAGGGAGGGGAAGGGGCCBGAA AACCAAAGAAGGAAGGGAAAAAGAGGGGGGAAAAAAGGCAAA A ATTCCAGGAAAAAAGGAGGAGGGGGAAATGGGGGGAGGGGG1 A A G G G G G G A A A GA $A \operatorname{GGGGGC} C G G A A G A G A G A A A A A G G G G A G G G$ A G A A A A $\operatorname{A} G A A G G G G G G G G C C G G A A A A G G C C A A A A A A G G A A A G$ G GAA $\operatorname{G}$ GAAGAGAACAAGGGGAAAAAGGGGGGGAAAAGAAAGG A GAA A GAGCAAAAAGGAAGGGGGGAAAAGGCCAAGGGAAAAA A A G G A A A G G GAGAA A $A \operatorname{A} G A A G G A A G G A G G G A A G C C A G G A G G A A$ A A A A A A $\mathcal{A} G G G G G G G C C C C G G G G A A A A G G G G A A A A A A A A A A A A$ AA $\mathrm{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A A A A G G A A A A G G G G A A A A G G A A G G$ AAAAGGGGCCGGGGGGAAGGGGGGAAAAGGCAGAGGAACCGG

AAGGGGGGAGCCCCAGAAGGGGGGCCAAAAGGAACCAAGGAC AC G G A A C C A A G G A A G G A A G G G G G G G G A A G G G G G G A A G G G G A A G G A A A A G G A A G GCC G G GAAAGGAGAAA GAAGGAA G G G G G C C G G ACAAGGGGGGGAGCACAAAAAAGGGGGAAGAAGGACGGCCGG $C \subset A A T T G A A A G A C A C C G G G A A A A A A A A G A A G G A G C C A T G G G G$ G G G G G A A G G G A A G G A A A A C C GAAGCCAGGAGAAATTAAAAAA G GAA $A \operatorname{GAAA} G A G G A A A A A G A A A A A G G G G A A A A G G G A C C C C C C$ AAAACCGAAAAAAAAAAAGGAAAACCAAGGGGCCAAGGAAAA G G G G G A C C C A G A C A G A A A A G G G A A C C C C G G G G A G G G G G G G A A A GAGAAGGGGAAAAAAAAAACCAAAAAACCAAGGGGGGCAAA
 A A G G A A A A A G G ACCAAAAGGGAAGCCAAAAAAAGGAAACCGG
 G G A A A A A A A A G G G G G G A A A A A A G GAAAAAAAAACAAA G G G G G G AAAAAAAACCCCGGAGAAGACCGGAAGAAAGGGGGGGGAGAG GGCCGGGGCCAAAAAAAAGGAAGGAAGGAAGGGGAAGGAGAA G GAGGGAAGGAGGGGGCCGGGAAGACAACAAAGGTTGGCCAA CAAAAACCGGGGAAGGGGAAGGTTGGAAGGAAGGAAGGGGAG $A C G A A G A A A A A A A G C C A A A G G A A A G G A A G A G G G G G A G A C C G G$ AAGGCCCAGGAAAGGGGAGAAAAAAAAAAAAAGGGGAAAACC G G G G G G G G GAAAGAGGGGAGAAAAGGGGAAGGAAAACCAAAA
 G G G A A A G G G G A A G G G G G G A GAAA A A GAAA GAAAAAAAAAAA G $A$ G G G G A A G G A A C C G G G G G G G G G G G G A A C C A A A A G G G G G G A A G G A A C C A C A A A A A A A A A A GGCCCCGGAAAAAGAAGGA GAAAAAA
 AAAAGAGGAAAAGGAAAACCAAAAAAAAAGCCAACGC
CAAGGGGAAGGAAACGGAGAGAGGGGAAAAAGAAAAAAAAA A A A A A ACCGGAAAAAAGGAAGGAAGGGGGGAAACAGAAGGGG G GAAGGAAAAAAAAAATTGGAAAAGGGAGGGAAAGAAAAGAA AAAAAAGGGGAAAATTACCCGGAGAGGACCAAGGGAGGAACAA A G G G GAAAAAAAAAAAAGGACAAAAAGAGGAGAAGGAACAGA G GCCAAGGAAGGAAGGGAGGAGGAAGAAGGGGAAAAGGGGGG AAAGGGAAGGAAACAAAAGGGAGGGGAAGGAAAGGAGGAAAA G G G G G G A A G G G G G G A C A A G GAACCGGAAGGAAAAAAG GAAAA AACCGAGGGGAAGGCCAAGGGAGGCCGGAAGAAAGGGAAAAA AATTAAGGAAGAAAAAAAGGGGGGAAGAAACCGGAAAAAACC CACCAACCTTGGGGAAAAAAGGAAACAAGGAAGGGAGGAGAA G G A A A A G G A A C C A A G G G G C C G G T T G G A A G G G G C C A A A A G G A A A A GAAAAAGGAAGGAAAAAAAAGGGGCCGGAGAAGGGBAACC AAGGAAGGGGAAAAGAAAAAGAGGAAAAGGGACCAGAAAAAG GAAA $A \operatorname{AGGAGGGAAAAACCAGGAGGAAGGGAAAAAGGGGAACC}$ GGCCAAAAGGAAGGAAGGGGAAAAGGGAGAAAGGGAAGAGAA AAAAGGAAGGCCGGAAAGAGGAAGAAAACAAAAGGGAAGGAA AA $A \operatorname{GAAAAAAAGGGGAAAAAAAAAGCCGGGGGGGGTTAAGGAA}$
 G G G G G G G G G G A A C C G G A A A A G G G G G GGGAAAAAAGGAAAAAA GAGGGGAAAACCAAAAAAGGAAAAGGGGGGGGGGGGGAAAGG $C C G G C G A G G G A A G G G A A A A A T A A A G G G G G G G G A A C C A G A A A A$ G GAAGGCCAAAAAAGGAAACAACAAGAAGGGGTTAAAAAAAA A A G G A A G A GACAAAAAGGTAAAGGGGGAAAAAAAGGGACACA
 A A G G G G G G G G G G G G A A C C C C A C A A G G G G G A G C A A A A G G G A A A AACCGGGGGAAAGGGAGGAAAAGGGGAACCAAAAGGGGGGAG G G G G A A A A A GAAAA $A \operatorname{A} A A A G G A A G G G G A A A A A A A A A G A G A G G G$ $G G A A A A G G G G G G G G G G A G A A G G C C A A G G G G A A G G G G G G A A A C$ GAAGGGGAAAGAGACCACGGGGAAGGCAGGGAGBAAAAGGGG AAAA $A \operatorname{A} A A G G A A G A G G A A G G A A C C G G C C C C G G G G G G G G G G G G$ GAGGGGAAGGAAAGAAAAAGGGAAGGCCAGAAAAAGAGGGGG

GAGGGGGGAAGGCCAAGGGGAAAAAAAAAAGGAGGGAAAGAA G GAAAGCCGAGGAGGGGAAAAACCAAGGGGAAGGGGCCACAC G G A A A A A G A A A A A G G G A A A A A A G G G GAAG GAAAAAAA GAAC C AAGGCCCCCCAAAGAAGAGGAAGGAAAAAAAAGGGGGGGGGG GGCCAAGGAGCCGGGGAACCCCGGGGAACCGGGGGGGAAAAA C CAACCGGGGAAAAAAAGAGGAGGGGAAGGGAGGTTCAAAGA A A G G A A G G A A A A A A G GACGGGGAGCCAAGGGGGGAAAAAA G G G G G G G G A A A A G G G G G GAA G GCC G GCCAAGGAGGAAAGGAAGA G G A A A A G G A A G G G G G G G A G A A A A A A G G G G A A G G G A G G G G G G G A GAGAAAGGGAGGGGGGAAGGAGGAGAGCAAGGAAAGAGGGGG G G G GCC C G G G G G G G A A G G G G G G C C G G A A G G G G A A A A G G A A A $G$ A A C C G G A A A A A A A A C C G GAAGGAAAGGGAGCCAACCAA G GAA A A G G G G A A A A $\mathcal{A} G G G G G C C G G G G G G A A G G A A A A C C G G A A A A C A$ AAAAAAAACCAAGAAGAGGGCCACGGCAGGGGGGACAAGGAG
 $C \subset A A G G G G A A A A G G G G G A G G A A G G G G G G A A A G A A A A A A G A A G$ GAACGGAAGGGGGGGGAAGGCCGGAGAAAAAAAAGBAAAAAA G GAA A ACCGGGAAAGGAGCCAAGGAAAGAGGGGGAAGGAGAA $G G A G G G C C T T A G A C C C G G A C G A A A G G G G G A A A G G G G G G A G G A$
 AAGGCCGGAGAAAGAAAAAAAGGGAACCCCAAAAGGGGCCAA
 A A G G A A A C A A A G G G G G G G G G G A G G G G A C A CAAAAAAAAGAAAA AAAACCAAAGGGAAGGAAGAAAAAGGAAGGAACCGBAAAAAA A A C C G G G G A G G A G A G A A G A A A C A A G GA GAGGAGGTTAGTTGA G GA $A \operatorname{G} G A A G G G G A G G G A G G G G G G G G G A A A A G G A A A G A A G G G A$ GCGGGGGAAAGGAGAAGGAAGGAGAAAAAAAAGAAAAAGGGG GAGAAAAGGAAGGGAAAGAGGGAAAAAACCAAGGTTAACAAA A A G G G G G G G G G A A A GAAACCAGGGAAAAAAAAGGAGAGAGAA GGAAAACCCCAAAAGGGGGGCCCCCCAAGGCCCAAAGAGGGG G G G G G G A C A G G G A A A A A A G G C C A C G G A A A A A A A A G A A G C C C C A A A A A A A A GGCCAAAAAAGAAAAGAGAGGAAAAAAAAAAACC A GAGAAGGAAGGACAGCCAAGGCCAAAAAGAGAAAAAAAAGG G GCCAAGGGGGGAAAAAGAAAAGGAAAAGGAAGGAAAAGGGG AA A GAAAAGGGGACCCAAAAAAAAAAGGAAAAAACCAGGGGG
 G G G GAA A GCCAAGGGGAAGGGAAAGGCCCCAAGGCCGGAAAA G GCCGGGGAAAAGGGAAACAAAAGAAAAAAGGGGGAGGACAA AAGGGGCCGAACAACAAAGAAAAAAAACGGGAAACCAAGGCC A G G G A A G G A T G G G G A A G G A A G G G G GAGGGGGGAA GACAAAAA AAAACCCCCCAAAGAGGGGGGGCCAAAACCAAGGAAAAGGGG G G A A A A G G G G A A G G G G G G A A A A A A A A A A C CAA A A A CA G C A G A GAGGGGGGGGAGAAGGAAAACCGAAGCCAACCAAAAAAGGAG AACCCCAAAAAAAAAAAACCAAAAAAAACCGGAAGGAAGGAA G G G G G G A A C C G G G G G G G G A G G G C C A A G G A A A A A A G G G G C C G G G G G G A G A A A A $\mathcal{A} G G G G G A A G G G G G G G G C C G G X A A G G G G G G G G G$ A A G G G G A A G G G G C G A A A A G G G G G G CCCCCAAGGGGAAAA G GAA G GAAGGGGAAAACCAAAAAAAAGAGGGACCAAGAGAAAAAAG AA $A G A A A A C C G G G G A A G G C C G G A A G G G G G G A A A A G G A A A A A G$ A A A TA $A$ A A A G A C G GAGAAAAGGAAGGAAAGGGAAAAGACCGG A A A A A A A C GAGACCAGAGGAAACCAAAAGGGAGGAAAGGGAA A G G G A A A A A G G G G A A A A G G G G GA $\operatorname{A}$ G GAGAAAAGTTGGGGAGAA A G G G G G A A G G A A G G A A G G A A G G A A A A G G G G A A A A G GAAA A C C AAAACCAGGGAAAAAAAACCAAAAGGAACCAAAAAAAAAAGG AACCCCGGAAAAGGCCGGAAAAGGAAGGGGGGAAAGAAAGAG A $G A C G G G G G G G G G G G G G G G G A A A A A A A A C C T T A A G G G A A A G G$ G G G G A A A A C C A A A A G G G G G G A A G G G GCCGGGGCCTTGGAAAA C CAGAAAAAGAAAAGGAAAAGGAAGGAAAAGGCCAGGGAGAA A A A A G GAAGGAAAAGGCCGGAGAGGGAGGGGGAAACAAGAAA

C C G GCAAGAAGGAAGGGACAAAAACAAAGGGGAAGGAACCGG A A G G G GAA $A \operatorname{GCC} C \mathrm{G} A \mathrm{~A} A A A A A A A G G C C A A G G G G C X A A G G G G G G$ AAAGCCAGGGGGGAGGAGAAGGAAGAAAAAAAGAAAAGAAAA G GAAAGAGGAAAGGGGGGGGGGGGAGGGGGAAGGGAAAGGGG AACCGGAGGGGGAAGGAAAGCAAAAAAAGGAAAGGAAGAAAG G G G G A A C C G A C C G G C C A G A A A G A G A A A A A A G G G G G G A A G G G A G G G GCCAAAGGGCCGGACACAAACAGAAGGACAAGGGGGGAG AAGGAGAAGGAAGGCCAAGGCCGGGGAGAAACAATTGGAACC A G G G G G A A C C G G A A G G G G G A G G C A G GCCCCCCAAAGGAAAAC $C C A G C C A A A A A G G G G G G G G G G G G G G A A A A A G G A G A A A G G A A A$ A GAAAGAGAAAAGGAAAAAACCGAAAAGAAGGGGAAGGAGAA
 $G G C A G C A G A G C C C C A C A A A G C G A A A A G A A G G G G G G G A A G G G G$ A A A G GAG G A C G G A A C C G G G GAGGGGGGGAAAAGGAAGGAAAA A GAACCGGAAAAAAAATTGGGGGGGCGGAAGGGGGAGGAAGA GAAAGGAAGGAAAAAAAAGGAAGAGGAAGGATCGGGAAAAAA GAAGCCAAAAAACCGAAAGGAAAAAAAAGGCCGGAACCBGAC A A A A A A A A GAA GC GAAAAGGAACCGGAAAAGGAA G GAA G GTT A G G GAAA $A$ AAAGGAACCAAAGGGAGAAAAGAAGGAGGGGAGAA G G G G G G G G A A A A A A A A T T A A A A A A G G C C G G G G G GAACC G G $\mathcal{A} A$ C C A A G A G G T T A A A A A A G G G G A A A A A A G G A A G G C C A G G G G G G G G G G G G GAAAAGAAAAAAAGGAGAAGGAGGGGGGGGGAAAAAA G GAGCCAAAAAAGGAAGGGGGGAAGGTTGGGGGGAAGAAAGA AA $A G A A C C G G C C G G A A G G A A G G A A A A A G A G G G A A G G G G A A A A$ A A G G G GCCAA C C GCCAAAAAAGGGGGGGACCGGGAGAGGAABA A A G G G G G G A A A A G G G G G A G G G G G G A G A G G A A A G G A A G G A A A A G $G A A G G G G G G G G A A G G C C G G A A G G G G G G G G A A G G G G A$
 C CAACCAGGGGGAGCCGGAAAAAAGGGGCCGGAAAAGAGGAA A A A A A A GATTGAAAAAAAGGGGGGGGAAGGCCGAAAGGAAAA $A G C C A A A A A A G A A G C C A A A A G G A A C X A A A A A G A A G G G G A A G G$ AAGGGACGGGAAAACCAAAAAAGGAAAAGGGGGGGAAAAAAA A GAGAGAAAAAAAAGGGGGGGGGGGGGGAAAAGGGGGGCCAA G G C C A A G G A A A GCC G GCAGAAC G G GAGGGGGAGAAAAGAAG G A G G G G GACAAAACCGGGAAACCAAAAAACAAAGGGGAAAAAG G GCAGGATGGAGGGAAAACCAGAAAAGACCAAGGAGAAAGAG ACGACGCAAGAGGAAAAAAAGGGGGGCGAAAAGGAACC G GAA G G G GAAAGCCCCGGCCGGCAAAGGGAGGGGAAGGGGGGAGAA AAAGAAAAGCGGAACCAAAGAAGGAACCAAAAGGAAAAAAAG GAAAAAAAGGAAGGGGAAGGGGGGGGGAAAGGGGAAAAAAAG $G G A A G G G G G A A G A A G G G G G G G A G A G G A A C G C C A A G G G G A A A G$ GAAAGGAAAAGAGGAAGGAAGGCCAAAGAAAAAAAAAAAAGG
 $A G G G A A C A A A G G G G A A G G G G G G A A A A A A G G A A G G G A A A G G G G$ A A C C G G G G G G A A G G T T G G C G A A A GAAAAAAAAAGGAAGAAA G G G G G G G A C A G G G G A A G G A A G G G G A A G G C C A A G G G G G G G G A A G G G G G GAGAGAGAGAAGGGGAAGGAAAAAAAACCAAGGAAAAAA G GAAAAGGAAAAGGAAACGGAAGGAAGGGAGGAAGGAGAGAA GAGGAAGGGAAAAAAAGAAAGAGGAACCGAAGGGACCAGGAC C CAA $A \operatorname{A} A G A G A A C C G G A A A A G G A G G G G G G G A G G G G G G A G G A A$ A GAAACAGGGGGGGGGGGAAAAGGAAGGAACCGGGAAAAAGG A GAA A GAA A G G G G GAGAAAAAGGAAGGAAAAAACCAAGGAA GA G G A A G A C C G G C C C A A A G G G A A G G G G G C A G A A A G G A A G G G G G G G GAAGGGGGGGGAAAACCGGGGAGCCGGGGAAAAGACAACAA AAAAGGACACGGAAGGTTAACCGGAAAGAGAGAAAAGGCCAA G GCCGGAAAAGGGGCCAAGGAAGGAGAGAAGAGGAAAAAGAG A G GAGGCCAAAAAGAAGGAAGGGGGGAACCAGGGAAAABAAG A G T A G A A A G G G G G GAA $A \operatorname{GGGGC} C A A A A A A A A A A G G A A A A A A A T$ $C \subset A A G G C C C C C C G G A G A G A A A G A A G G G G A A A A G G A A G G A C C C$

G G G GAAGGAAAGAAGGGGAAAGACAGAAAAAAAAAAAAAAG C C C CA $A$ A A A G G G G G A A A A A G CAAAAAGGGGGGAAGGGGAAAA G G G GAACAGGAGAAAAAACCGGACAGAAAGACAAGGCCAGAA AAACGGAAAAAAAGGGGGAGGGAAAGAAAGGGGGAAAAGGAA AAAAGGAACCCCGGGGAAAAGGAAAAGAAAACAGAAAACCAA AAGGCAGGAGCCAGAGAAAGAAAGGGAAGAGAAGAAAAAGGG A A A A G GAACCAAACGGACAAGGAAGGGGGGGGAAGAAAGGCC A A G G G G G G C C T T C C A GACAA $A \operatorname{AGGGGGGGAAGGGGCCGGGGGG}$ A GCAGAGGCCAAGGAAAACCGGGGGGGGAAAAAAGAAAAAGG AAGGAAAAAAGGCCAAGGGGGGGGAAAAAACCAAAAAAGGCC AAAGAAAAACAAAAAAAGAAAAAACCAAAGGGGGAAGAAAAA G G G GCCGGGAGGGGCCAAGGAAAAGGAAAACCGGGGAAGAAA A A G G A A A A A A G G A A A A CA $A G G G G G G C G A A A G A G A A A G G A C B G$ CCGGGGGGCCAAAAGGGACCAAAAGGAAGGACAAAAAAGGAA C CAAAAGGAACCAAAAAAGGAACCGGAAAAGAAAGGAAAAAA G G G G G GAAAACCGCAAAAGACAAAAAAAAAAAGACCAGAGGG AAAGGGAAAAAGACAAGGGGTACCGGACAAGACCGGAGAAAA A A A A A A G G A A G G G G G G C G A A A A A ACAATGC GAAACCAA G GAA AACCAAAAGAGGGAGGAGGGGGGGCCGGGGAAGGAACAAAAA $G G C C A A A A A A A G A G A A A A A A A A A A A G G G G A A A G G T T G G A A G A$ C C A A T T G G A A A C G A A A A G G G A A G G G G A A A A G G A A G G G G G G G G A A G G A A G G A A A A C C G G G G A A G G G G G G G G G G A A G G A A C C G G C C A A A A GAGGCAAGGGAAGGGGAAAAAGAGCCAAGGGGCCAAAA A A A A G GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAGACAACCGACCCCAAAAGGAAAAGGGGAA GAAGAGGGAAAAGGAAGGAAGGCCCCAAGGAAGGAAAAAACC AAAAAAAAAAGGGGAAGGACAGAAAAAAGGAAGGAACCACAA
 A ACCCCAACCCCCCGGCCAACCGGGGGGGGAACCCCAAGGAA C C A A A A G G A A C C G G G G A A A A A A A A G GAAGGGGAGGACAAAAA AACCAGGAAAAAAAAAAAGAGAGAGGGGCCGGGGCCACCCBA A G G G A A A A $\mathcal{A} G G G G G A A A A A A G G G G A A A G A T C C G G G G C C X C A A$ G G G G G G G G G G A A G A GAGGGGAAAAGGAAAAAGAAGGGGAA G G A A A A G G G G G G G G G G C C A A G G G G A A A A A A A A A A $\mathcal{A} G G G G G G G G G$ G G A A A A A A G G A A C C A A G GAAGGGGGGACAAAACCGAAAAA G G A A A A A A A A A A A A A A A A A A G GAACCCCAAGGAAAA G GAAAAAA G G A A G G G G A G G G A A A A G G G G G G C C C C C C G GCC G GCC G GAA G G A A G G G GAA $A \operatorname{A} A A G G A A A G A G G G G G G G A A A G G G G G G G A A A A G A$ G G G GAA A G G GAACCAAAGAAAACCAAGGGGAAGGAAAAAAGA G G G G G G A A T T G GAA $A \operatorname{GCC} C G G A A A A A A A A A A A A G G A A A A G G A A$
 GAGGGGAAAAGGGGGGAAAACCGGCCGGGGAAAAAAAAAACC C C G G G G A A G G G G G G G G A A G G A A A A G G C C A A G G G GCC C GAAA A GGCCCCCCGGAAAAAAAAGGAAGAAAAAAAAGCCAAAAAAGA A G G A A G A A GAGGAAAGGGCAGAAGAGGGGGCCAAAACCGGGA

 A GCCGAAAAGCCGGAGGAAAGGAATAGAAGAAAACCAAAGAG AAACAGAGAGGAAAAGAAGGGAAAAAAACACAAAAAAAGGAA AAAGGGGGCCGGAACCGGAATAAGCCGGGAAAAAAAAGAAAA G G G G C C A A A A G G G A G G A GAGGGAAAAGGAAGGCCAAA G G G C C A A C A C CAA A GAACCAAGGGGAAAACCAAGGAACCCCGGGGGG G GAAGGAAGGGGAAGGAACCGGAAAGATAAGGCCGGAAAACC GAAAAAGGGAGAGGAAGGGGAAGAGACAAGAGCAGAAAACAG GACCGGAACCGGTTTTAGTTCCGGAAAAAACCCCAAGGCACC $G G C C A A A A G G A A A A A A C C G A G A G G G G A G C C A A A A G G G A G G G G$ $G G A A A A A G A A A A G G G G G G G G A A G G G G A A C C G G A A G G C C A A G G$ AAGGGGCCACCAGGAAGGAAGGGGCCAAAAGGGACCAGGGGA AAAAGGAAAAGGGGGGAACAAAGGGGGGGGAAAAGAAAGGGG G GAAAAAAGGGGAAAACCCCGGAAGGAAAAACCCGGAAAGAA

G G G GCCGGGGGGAAGGGGCCACAGAAGGCCGGAAAACCAAGA
 C C G GAAAAAACCAAGGAAGGAAGGGGGGCCGGAAGGCCCAGG G GAAAAAAAGAAAAAACAAAGGGGCAGAGGAAAAGGAAGGGG G G GAATGGAACAGGAGAAAAAGGGAGCCGGACAAAAGAAGAA CAAAAAAATTGGCCGGCCGGAAAAGGAAAAAAAAAGGAAAAG AAAA $A \operatorname{GAAAAGAAAAAACCGGAAGGAAAAGGGGAGAGGGAGAG}$ G GAGGGGGAAAAAAAAGGAAAAAAGGAAGAGGAGAGAAAAAA
 AAAAGGCAGGAAGGAAAGGGAGAAAAAAGGGGAAGCGGAAGAG A A A A A ACCCC G GAAGGAGAAAAAGGGGGGGAACCGGAGAAAG GAAAAAGGAGGGAAAGAAGGGGAGAGAGGGGGAACCCGAGAG $G G C C A C A G G G G A A A C C G G C C G A A A G G A A G G G A A G A A G G A G C G$ $G G A A G G A A A A G G G G G G A A A A A A G G A A G A G G A G A G A A A A A G G G$ G G G GAAAAAAGGGGAAAAAAAAGAAGGGAGAAAAAAAAGGGG G G G GCCGGAAGGAGAAAAAAAAGGGGAAAAGGGGAGCAAAGA G G A A A A A A A A C C G GAA $A \operatorname{AGGGAGGGCCGGAACCAGAAAAAAAA}$ G G G G A G G A A G G A A A G G G G G G A A A A G G A A G G G G G G G G G G A A A A T T G G GAAAAAAAGAGGAAGGGGAAAAGGAAAAGGAACCAAAG GGAAAGACCCGACCAAGGCCGGGGGGCAAGAAGGGGCCGAAA AAGAGAGAAAGGAGAACCGGGAAAGGAGGGAAGGAAGAAAGG A A GAAA $A \operatorname{G} G A A C A A A A G G A A A A A A A A A A G G A A A A G G G G A G G G$ G G G GCCAACCAAAAAAAAGGAAAGAAGGAAAGAGAAGGAGAA A A GA $A G A A G G G G A G A A G G A A G G A A G G A A G G A A A A A A C A A A G G$ G GAACCAAGGGGGGCCAAGACCGAGGGGGGAAGGGAGGABAA AAAAAAAAGGGGGGAAGGGGAGGGGGGGAAGGGGAAAAAAAA G G GAGGAAAAGGGGGGGGAAGAAGAACCCCCCGAAGA
$G C C G G A A A A A A G G A A A A C A G G G A G G A A G G A G A A G G G A C C G G$ A A G GCAGGCCGGAGGGGGAAGAGGAAAAGGCCGGAACAAGGG G GAAGGCCAAAAAAGGAGGGGGGAAACCGAAAGGAAGACAAG G G G G G A C C A A G G A A A G A A A A CAGGGGAACCGGGAAAA G C CAT GCAAGAAAGAGGGGGGCCAAAAAAAGGAGGGGAAAAGGACCC G GAA A G G G G GCCAAAAAAAAAAAACCGGGGAAGGAAGAAAAA
 G G A A A A A A CAGGGACCACCCGGAAAGAAAGAAAAAGGGGAAA A A A A A A A A G G G G T TAA A G GAAAAGGAAAAAACCGGGGGAAAA G C CAAAACCAAAGAAAGAAGGAAGGAAAAAAGGCGAGAACAGA AA $A G G G C C G G G G G G G G A A G G A A A A A A A A G G G G G A G G A A A C A A$ A A GAA A A $\mathrm{A} G \mathrm{G}$ GAAGGCAAAAAAAAAAAAAAGGGGGAAAAAAAG G GAACCCCGAGCAAGAAAAAGGCCGGAGAAAGCCGGAAAAAG G G GAGAAAGGACAAGGGGGACAGGGGAAGGAGAAACAAGGGA G GCAAA A ATTACAGGGGAAAAAGAAGGAAAAAAGAACAGGAA G GCCAAGGGGAAGGAACCCCAAAACAAAGGGGAACCAAGGGG $A A C C G G G G A A G G G G G G A A A G G G G G A A A A G A A A C C A A A A A A G G$ AA $A G A A A A A A G G G G A A G G C C G G G G A A G G C A C A G G A A A G A A G C$
 AAGACAGAAGGAGGACAAGGCCGGGGAAAAAGGAGGGCAGAA G GCACCCCAAAAAGAAGGAAAAGGGGAAGGAAAAAAGGGGGG G G G G G G G G G G GAGGAAAACCCCGGAAGGGGGGAAAAGAAAAA

 $G G C C A A G G G G A A C A C A G A G G A A G A A G A A G G G G A G G G A G C C G A$ G GACAGAAGGGAAAGGAAAAGGAAAAAAAAAAAAAAAGAGAA GAGGAGGAGGAAAAAAGGGGGGGGGACCACCCGAAGCCAGAA A GAAAGAAAACCCAAGGAGGCAGGGAGGGGCCGGAGGGGGAA GAGGCACCAGCAGGAGAAGACCAAAAAAAAGGAAAGAACCAA G GAACCGGAAAGGGAAAAAAAGAAACCCAAAAGGAGGATTCC G A A C A A C C G G A G G GA GAAAAGGCCAAGGGGAACCGGGGAACC $C \subset A G G G A C A A G G G G G G A G G G C C G G G G G G A G A A A G G G A A A A G G$

A A G GAGGGGGAAAAAAAGAAGGGGGGGGAAGAGACCAGAAAA A G G G A A A A A A G GAGCC $\mathcal{A} G G G C C A G G G A A A A A A A A G G C A A A A G$ A GAA A GCCAAGGGGAAGGGGAAGGCCCCAAAAAAGGAAAAGG $C \subset G G C C A A A A A A G G G G A A G G G G A A A A G G A A G G A A A A G G A A C A$ G G G GAAAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A \operatorname{A} G A A C C C C A A G G A A G G G G G G G G G G C C$ $C \subset G G A A A A G G A A A A A G G G A A C C A A G G A A A A A G C X A G A A G G G G$ C CAAAAGAGGAAAAAAACGGGAGAGGAGACGGAGAGAAGGAA A A GA A A GAGGGGGGAAAGGGGAAAAAGGGGAGAAGAGAAAAA G G A A G GCCCCCCGGGGACGAGGGGGAGGAGGGAGGGGGAGGG AAAAGGCCCCGGGGGGGGGGCCGGGGGGAAGGGGAAGGAAGA G GAAAACCAAAAAAAAAAGGGGAAAAAAGGGGAAAAAAAAGG G G G G G G G G A A G G G G G G A A A A $\mathcal{A} G G G G G G G G G A A A G C X A A G G C C$ A GAA A G A A A A A $A \operatorname{AGGAGGGAGGGAGAGGGGGAGGGGGAGAGAA}$ GA $A \operatorname{GGG} \operatorname{GA} A A A C A A G G G G G A A G G A A G G G G G G G G G G A A G A G G G A$ A A G G G G G G A A GCGGGGAAAGGAGGGGAAGGAAAAAAAAAAAA $C C G G A G G G A A G G C C A A C C A G A A G G A A G A T T G G G G G G G G G G G A$ A A G GAA A ACC G GAGAC GAAAGGGGGGCCAACAAGGGAACAAA AA $\operatorname{A} G A A C C A A G G G G C C G G A A A A G G A A A A A A A A G G G G A A A A A A$ C CAGGGCCGAGGCCAAAAAAAAAACCAAGGAAGGAAAAGAAA A A G G G G G G G G A A G A C C G G A A A C G G G G G G T T A A G G A A A A G G G A GAGGCCAACCGAGGAAAACCGGGGAGGAAGAAAAGGGGAAGG $C \subset A A G A C C A A A A G G G G A A A A A A A A G G G G A A A A G G G G C C C C C C$ G G A A A A A A A A A A G A A A G G G G G G A A C C C C C CAA G GAA G GAA G G $G G C C G G A A G G A A G G A A G G A A C C A A G G A A G G A A A A G G A C G G G G$ $G G A A G G G G G G A A G G C C G G A A A A A A C C A A G G C C G G G G G G C C G G$ G G A A A A G G G G G G G G G G G G A A G G G G G G G G C C G G G A G G C C A A G G GCAAAAAAGGAAGGAACCCCAGGGGGGGCCGGAAAGAAGGGG G GAA A GAA $A \operatorname{GA} A A G G C C A A A G G G G G G G G A A A G A G G G G G A G G A A$
 AAGAAAGGAAAAGGAAGGACAGACAGAAAAAAAAAAAAAGAG A A G G G G T A A G G A A A A A $\mathcal{A} G A A G G G G A A A A G G G G G G G G C A A A A A$ G GAAGGGGGGGAAACCAAGGCAGGAAGGAAGGAAAAGAAAAA A A A A GAGAGAAAAGGAGGAAAAGGAAAGAGGAGGGGGAAAGA A A A G A C G G G GA G G A GAGAAAAAGGAGAAAAAAAAAA A A A A G GAA A G GAA A A G A A A CAGGAGGGAAAAAAAAAAAAGGGGAAAAAGGG G G G G A G A A A A G G G G G G G G G GCCCCCCCGGGGGGAAAAAAAAAA G G G G G G GAAAAAAAAAAGAAAGAGAAAAAAGGAAAAGGGGAA AAGGAAAGAAGGAAAAGGAACCCCAAAACCAAAAAAGGAGAAA $G G A A A A A A G G A A A A A A A A G G A A G G A A G G G G G G A A A A G G A A C A$ G G A A A A A A G G G GAA $A \operatorname{GGG} G A A A A A G G G A A G G A G A G A A C A A A C A$ G G G G G GAGAGCCGGGGAAGGGGAAAAGGGGAAAAAGAACCGG G G A A G G A A C C G G G G A A $\mathcal{A} A G G G G G G G G C C A A A A A A G G A A A A A G$ G G G GAA AGGAAAGGAGAAAAAAAAGGGGAGGGAGAACCAGAA AAGGAAGGCCGGAAAAGGAAAAAAAAAAGGAACCAAGGCCBG G GAAAAAAGGGGCCGGAAGGGGAAAAAAAAAAGGGGAACCAA AAAACCGGAAACAAAAAAAAAGAAGGAAAAAAAAAAAGBGAA A A A A A A A A A A G G A A C C G G G GCCAAAAAAAAGGCCGGAA G G G G C G
 AAAAGGGGAAAAAAAAAAGGAAGGGGCCGGAAGGGGAGAAAAA A A G G G G G G G G A GAGAAAAGGAGGGAAGGCCAAGGAAAAAACC G GAA A G G G A A A G G G GAGGAAAAAAGGGGAAAAAAAACAAAAA A A A A A A G G G GATGGCGGAAGAAAAAAGGAAAAGGAAGACCAC
 A G G GAA A G G GAGAA $A \operatorname{AGGAAAAAACGGGGGGGGGAGGAGGAGG}$ A A A A G G G G A A G G G G G G G A A A A A A A A A A A A A A GAAAAA A $A$ A G A AA $A$ A $G G A A A A A A A A G G C G G A A A A G G G G A A C C A A C C G G G G A A$ A A A A A A GAAA $A \operatorname{AGGAGGAAGGAAAGGGAAGGAAGAGGGGGGGG}$ A A A A A A A A G G A A A A C CAA $A \operatorname{AGGGGGAAAGAAACAAAAGGAGGG}$ A GAGAGCAAGAGCCAAAGGGGGGGAAGAGGGGGGGGAAAAGA

AACCGGGGGGGGAAAAAAAAAAGGAAAACCAGAACCCCAAAA $A \subset A A G G G G G G G G G G G G T T G G G A G G A G A G G A G A A G G G G G G G G G$ A A G G A G G G A A G G G G A A A A G G C C A GAA A GAA A A GAA G G G G G A A G G A A A A G G G GAA $A \operatorname{G} G \mathrm{G}$ GAAGGGGGGAAGGGGAAAAAAAAGGGG GGCCAACCGAAAAAGGGGAAGGGGCCAAAAGGGGAAGAAAAA A A G G G GAA $A \operatorname{A} A A A A C C G G G G A A A A A A G G G G G G G G G G A A G G C C$ AAAAGGCCAAGGGAAAAGAAGGAAGGAACCAAGGAAAAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCAACCAAAAAAAAAAGG G GAAAAGGAAGGAAAAGGAAACGGAAGAGGTTCCGGAAGGCC AAGGGGGGCCCCGGGGGGAAGGAAAAGGTTAAGGAAGGAGAA G GAAAACCGGGGAAGGGGCCGGAAGGCCAAGGAAAAAAGGGG G G G GCCCCAGACAAAAGGAAAAAAGGAAGGAAAAGGCAAGGG A A A A G G G G A A A A G G A A A A A A GGGGGGAAGGAAGGAAAAAAAA AAAAAACCGGAGGGGGGGAGAAAGACAGAAGGGGAAAAAAGA AA $\operatorname{A} G A A G G G G G G A A A A A G A A G G A A A A A A G G G G C A A A A G A G G G$ A A A A G G G A G GCAGGGGAAAAGGGGAAGGCCCCAAAGAACCAA G GCCAA G G A A G G A A A A A A A A C C G GAACC C C G G G G G G G G G G G G GA $A$ A $\operatorname{G} \operatorname{GAA} A \operatorname{A} G \mathrm{G} A A A A A A A G G A A A A G G G G G G G G G G A A G G G G G G$ $G G A A G G A G A A G G C C G G G G A A G G G G G G A A A A C C G G A A G G A A A G$ A A G G G G G G A A G G G G G G A A G G A A A A A A A A A A G G G G C C G G G G A A AAAAAACCCCGGAAGGGGGGAAGGAAAGGGGGAAGGGGGGAA A A G GAA A G G G G G G GAAAGAAACAAAAGGCCCCAACCAAACAA G G A A A G A A A A A A A A A A A A G GAAAAAAAAAAGGGGAAAAAAAA GGCCCCAACCGGAAAACCAAAAAAAAAAGAGGGGGGTTGGGG GAAGGGAAAAAAGGGGGGAAAAAAAAAACCAAAGGGAACCBG G GAAAGAAAGGGCAAAAGGGAAACAAAAAACCAAGGGGAACA A GAAAAAAGGAAAGGGGGACAGGGAAGGGGGAGGAAA
AAAAAGGAAGGAAAAAAAAAAAAAAAAGGAAAAGGGGAAAA GGCCGGAAAACCGGGGCCCCACGGAAGGAAAAAAAACCAAAA G G G G G G G G A A G G G G G G G G C C G G T T G G G G A A G G G G A G G GAAAA A A A G G A A G G A A A A A A G G G GCCAAAACCGGAAGGGGGAAAAAAA G GAGAGAATTGGGGGGAAAAGGAAGGGGGGGGGGAAAAAAAA AAGGCCGGGGAAAAGGGGAAGGGGGGCCAGGCGGAAAAGGAA AAGACCGGCCAAAAAAAAGGAAAAAAGGGGGGAAGGGGAAAA A A A A $\mathcal{A} G G G C \subset A A A A G G G G G G G G A A G G G G C A G G G G A A G G G G A A$ G GAA A G A A G G G G A A A A A A G G G G G GCCGGGGAA GAAAAA G GAA AAGGAACCAAGGAAGGGGAAAAAGCCGAAAAACCAAGGGGGG G GAACCGGAAAAGGGGAAAAAAGGGGAAGGAAAAGGGBAAAA G A A A T T A A G G A A A A A A T T G G G G G G G G G G G G A A A A A A G G A A G G T TCC G GAAAAGGAACCGGAACCGGAAAAAAGGAAGAAACCGG AAGGAAAAAAGGAAGGAAAAGGACGGAAGGAAAAAAGGCCGG G GCCCCGGAAAAAAGAAGAAGGAAGGGGAAAA GGGGGGTTCG1 AAGGAAGGGGGGGGAAAAGGGGAAGGAAAATTAAGGGGAAGA G GCCGGGGCCAAAAGGAGGAGAGGGGGGAGGGACAAGAAGCA C C G G G G G G A A A C A G G GAG G G A A A A G G G GAA A A G G G G G G A A T T G G GACCAAGGCCAAAAAAGGGGGGAAGGACACAGGGGAGAAA $A C G A A G G A A G G G A A G G C C A G A A G G G G A A G G A G C C B A G B C C A G$ AACCGGGGGGAAGGGGAAAACCGGGGAAGGAAGGAAGGACGG AAGACAGGAGGGAAAAACAACCTTGGGGAAAAGGAGCCAAGA AACGAGGGGGAAAAAACCAGGGAAAGACCCAAAAAGAAAAAC G GAGGAGGAGGGACAGCCCCAAAACCGGAAAGCCAAAAAAAG A A G G A G G G G G GACCAACCAAGGAAAAAAAAAAAAAAAACCAA

 G G G G A A A A A A G G G G G G GAGAAACCAAGGGGGAAAAAAAGGAA AA $A G A A A C G G A A G G A A G G A A C C A A G G G G G G G G A A A A A A A A A A$ AAGAGACAATAAGGGAAAGGAAGGAGGAAAAAAAAATAGGGG GAAAAGGGAAAAAGGGAAAACCAACCGGCCGAAACCGAAAAA AAAAGGGGCCTTGGGGAAAAAAGGGGCCAAGGAGAGAGAACC

G GAAGAGAGACCAAAAAAAGAGAAAAAGAAAAGGAAGGAGAA GAGAAGCCAAGGAAAAGGGAAAACAAGGAAAAGGAGGGCCGA A G A A A A G G A A G G A A A A G GAAC A CAAAAAACCGGGGGGGGGGGA $C \subset G G G G G G A A G G G G A A A A A A A A G A A G A A A A C C A A C C A A G G G G$ G GAAGGCCGGAGAGGGGCGGGGGGGGAAAAGGAAAAAACCGG A A TAAAAGACAAGGAGAGAAGGAAGGGGGAGGAAAACCAGGG G G G G A A A A G G G G G G G G A A A A A A A A G G G GAACCAAAAGAAAAA GGAGGGAACCAAGAAATTGGAAGGAAAAGGCCAAAAAAAAAA A A A A A A A A $G$ G A A A A A A A A C C $G G G G G G G G G G G G G G A A A A G A A A$ G G G G G GAA A GAAGGAAAGGGGGGGGGGGAAGGCCAAAAGAAA
 A A A A G GAACCAGGGAGAAGGGGAAAACCAAGGGGAAAAGGGG G G G G G A A A GA G GAAAA $A \operatorname{A} G A A G A G G A A G G A A A C A A A A A A G G G A$ $G G A A A C G G A G C C G G G A G A G A G A A A A A A A C C A A A A G G G G A A G G$ G GAAGGGGAAGGAGAGCCGGAAAACAAGAAAAAAAAAAAAAA A A GACCGGGGAAAAAAGGGGCCAGAAAAGGCCAAAAGAAAGA G G A A A A G GCC G A A A G G G G G GAACCGGCCGGAGAAGAAAAGAA A A G G A A A G A A A A G GCCGGGGGGCCAAGGCAGGCCAAGAAAGC A G G G G GAAAGAAAAGGAAGGAAAACCAAGGAGGGCCGGAGAA A A A G A A G G G G A A G GCCAAAGAAGGAACCAAAAAAAAGAGGAG $C C G G A A G G A A G G A A C C A G G C G G G G A G A A A A A A G G G G A G G G A A$ G GAAGGAAGAAAGGGGAACCCCGGAAAAGGAAACAAAAAAAA A A G G A C A A A A A A A A G G A A G GACAAAACCGGAAGAAACCGGGG C G A G A A A A A A G GCC G G G G A A A A G G A A A A A A G G C C G G A A G G G G G G A A C C G G G G G G G G G G G G A A A A G G G GAAAAAGAAAAAAACAA G G G GAAAAGGAAAAGAGGAAGGAAAAGGGAGGGGAAAAAGGG GAA A A GAAAAGGGGGAAAAAGGGGGAGGGGAAGGGGGAGAGG A A A A A A G G A A A GAA $A \operatorname{GCC} C \subset G A G G A A G G A C A A A A A A A A G G C C$ GAAAAAGAAAGGAGACGGGGCCGGAAAAAAGGCCAAGAAACC
 G GAAA A A A G GCCAAGAAACAAAAAGGGGAGGGAAGAAAGGCC A A A A A A A A A A A A A GGAAGGTAGGCAGGAAGGGACAAAAAGA A A A A G A A A G G A A C C C A G G G G G G A A G GAC G GAAAA A GAA G G G G A A A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G G G A A G G A G A A A A G A A A G G$ A GAA A G A ACCAACCGGGGAAGGCCGGAAAAGGAAAAAACCAA

 G GAGCAGGAAAAAAAGAACGAAGGGGGGAAACAAAAGGGGAA G G A A G G A A A A A C C C A A $\mathcal{A} G G G G G G G G G A A G G G G G G A A A A G G C C$ G G A A G GAGGAACAGGGGAGAAAAAAAGAAAGAGGAGAAAA GA AAGGGGCCAACCGGAACCGGGGCCGGAAGGAAAAGGCCAACC G G A A A A G G A A A A A A A A A A A A A A GAAAGGAAACAAA GAAAA G G GAGGAAGGAGACAAGGGGGGAGGGGGAGGGGGGGAAGAAAAA AACACCGGCCGGGGGGAAAAGGCCAGTTAAAAAAGGCAGAGG G GAAGGCCGAGGAAAAAAAAAAAGAAAGAGAGGGGAAAGGCC G GAACCGGCCAAAGCCAAGGAAGGGAAAAAAAACGAAAAAGB A G A A G GCAGGAAACCCGGGGGCAAGGGGAAGGCCAGAAGGGA G GAAAAAGAAGGAAGGCCGGAGGGAAAGCCAAAAGGAAAAGG CCGGAAAAAAAGCCCCAAGGGGAACCCCAGAAGGAAAAAAAA
 A A G G G GCCCACCGGAACGAAGGGGAGAGAAAAGGGGGGGGGG AAAAAGCCGGGGAAAAAAAAAAGGGGGGAACCGGAAGGGGCC A A A A G G G G A A G G A A G G A A G G A A A A C CAAC CAAAA A GCCGGGG A A A A A A A ACCAAAAAAAAAGAGGCAAGGGGCCCCAACCGGGA G GAAGGAACCGGAAAGAAAAAAGAAAAAAGAACCGGAGAGAA A A A A A A GAGGGGAACAAAGACCACAGGAGAAGACAGAAAACC A A G A A TAAAAACAGAGGAAAGGAAGGAAGGCCGGGGAAAACC A A G G G G G G A A A GA GAACCGGTACCAAGAGGAAAAAAGG G GA G G G G GAGGAAAAAGGCCAGGGCCCCGGAAGGAAGGGAAAAGAA

T T G G A A A A A A A A A A $\mathcal{A} G G G G G G G G G G G A A G G A A A A G G G A A G G G$ $A G A C G G A G C A A G G A A G G A A A G G G A A G G G G G A A C C A A A G G G G A$ A G G GCAGGGGAAGAACGGGAGGAAAAAAAAATGGAAGGAAAA G GAAGGAAGGAAGGGGGGAAAAGGGGGGCCCCAAGGAAGGGG AAAATTCCGGAACCGGGGGGAAGGAAAACCAAGGGGAACAAA AACCCCCCAGAAGAAAACGGAAGAGGGGAAAGGGGGGGGAGG C GCCGGCCAACCGGAAGGAAGGAAAAGAGGAAGGGGACAGAC G G GAGGGGGGGGAGCCAGAAAAAAAAGGAAGGAAGBAAGGCC
 AAGGAAAATTAAGGGGGGAAGGAAAAAGCCAGAAAAAAGGGG A A G G G G G G A A C C A G G GAAAAGGAAGGAAGGAAAATTAAAAGG A A A A A A G G G G G GAA A G A A A G G G G G A A A A A A G GAAAA A G C C A A A A A A A A $\mathcal{A} G G G G G G G G G G G A G A G C C A A A A A A C C G G G G A C B G A A$ A A A A A A G G A A A A G G AC G GCAGGAAGGGACCGGAAGACACAAA G GCCAAAAAGCCAGAGGGAAAAAAGGGGAAAAAGGGGGAGAA $C \subset A G A A G A A G A A C A G G C G A A G G G G A A C C A A G G A A A A A G A G C A$

 $G G A A G G A A C C A C A A G G A A G G G G G G G G G A G G G A A A A A G G T T A G$ AAAAAAGGGGCCAAAGGGCCAGAAGGAGCCAAGGGGGGGGAG AAGAAAACCCAAAAGGGGAAAACCCAAAGGAAGGAAGGGGGG AAAGGGGAAAGGACAAAAAAAAAACCGGAAAAAAAGCCAGAA A G G A A G A A GA G GAAAAAAGGGGAGGGACGAGGGAGAAAAGAG G G A A G G A A C C A A G G A A G G G G G G C C A A G G A A A A G G A A A G G G G G AC G G G G G G A A A A C C G G G G G G G G A A A A A A A A G G G GA G C A C A A A G G G G G A T TA $A$ A A A A G G A A A G G G C C A A A A A A A A A A G G G G G G G G AAAAGAGGAGGGGGGGAAAAAAGGAAGAAAGGGGCCA
AACAAAGAGGGAGCCAAGAAAGGAAGGAAAACCAAGACAAA C CAACCAAAAGGGGAAAACCGGGGGGTAAAAAGAAAGBAGAA $G G A A A A A A G G C C G G G G A A C C A A G G A A A A G G A A A A A A A C A A A G$ AC G G A G A A G G C C A A C C C C G G A A G G A A G G G G A A A A G G A A A A A A G GAAAAAAAAAAGGGGAAAAAAAAGGGGCCCAAGAAGAAAGA A A GAAACAGGGAACGGAAGAGGACAGCCAAAAGGAAAAGGAA $G G A G G A G G A A G G G A G G G A A A A A G A A A A A G A A A A G A A A A G G A A$ G G G GCCAAGGGAAGGAGAGAGGAAAAGAAGGGAAAAGGAAAA A A G G A A G A A A A A C G A G A A A A G G G A A A A A A A A A A A G A G G C G A A G G G G G G G G G GAA $A \operatorname{GGA} A G G G C C G A G A A G A A A A C C A A A A G G C A$ TAGGAAAAAAAGGGAGAACAAAGGAGAAAAAAGGGGCAAAGAG

 G G G G G G G GAA G GAACCACAAAAGGAAAGAAAAGGGGGGAAAA G G G G G A A A A G A G G G A A C C G G G G A G G G G G A A G G C C G G A A A A A A A A A A A A A A A A A A G GAAGGAAGGGGAACAGGGGAAAGAGAGAA G G A A A A C CAACACAAGGGGGGGTAAAGGGGAAAAGGGGAGAA A A G G A A G G G G A A GA $A \operatorname{GGG} \operatorname{GAA} A G A A G G G G A A G G C C G G G G A A A A$
 GAAGGGAAAAGGGGAAACGAGGGGAGGGGGGAGGGGAAGGAG A GAAAAGGCCAAGGGGGGGGAAAAGGAAAAAAGGAAAAAAAA C C A A A A G GAGGGGGGGAAGGAAGGGGAGCCAGAAAGAGAAAA G G G G G G G G G G G G A A A A A A A G G G G A A A A $\mathcal{A} G G G G G A A A A A A G G G G$ A G G G G G G G A GAAAACAAACCCCAAGGGGGGGGCCAACCGGGG GGAACCCCCCAAGGGGAAAAGGCCAAGGGGGGGBAAGGGGGG C C G G G G G G A G A A A C G G A A A A C C G A A G C C A A A A A A A G G G T T A G A G G G G GCCGGGGAACCGGAAAAAACCAAGGAAAACCAAGGGG

 G G G A A A C CAAA $A \operatorname{AGGAGAAAAGGAAAACCAAAAGGGGGGAAAA}$ A G A A C C C C A A G G A A G G A A G G G GAA A A GAAAAACCA A A A A A G A AAGGAAAAGGCCCCGGGGAAGGGGGGCCGGCCAAAAGGGGCC

AACCGAAAGGAAAACCGGGGCCAAGAAACCGGAAAAACGGCA
 G GAAAAGGAAGGAGGATTAGGGGGGGGAAAAGGAAGCAAAGG AGAGGGGGGGCCAAAAACGGAGAACCAACCAGAAAGAAAAAA AA $A \operatorname{GA} A A A A A G G G G A G G G A A A A G G G G A A G G A A A A A A G G A A A G$ A A A A A A G G G G A A G G G G A A A GAGAAAGCCGGAACCAAGGGGAG A A A A G GAA A G G G G G GAAAGGAAGGAACAAGGGGGGGAAACAA A G G G G G G G A A A A A A C CAAAA A G G GCAGGGGCCAGCC GAGGGC
 $C C T T G G A A A G A A G A A A A G A A A G A G C C A A G G C A A G A C A A A A G G$ G GCCGGGGAAAAAAAAGGGAAAAAAAAGGAAGGGAAAAGGGG GAAAAGAGAAGAAGACGGGGAACCAAGGAAAGAAAAAGAAAA GGAACCCCCCGGAACCCCGGAAAGAAGGGGGGGGGGAAAAAA C C G GAA $A \operatorname{GAAAAAGGAAAAAACCGGAAGGAAGGCAAGGGGGAG}$ AAAGGGGAAGGAAGAGACAGGAAGGGGGAAAAAAGAAAGAAG A GAAGGGGAAAACCAAGGAAGGAGGGAGGGAAGGCAAAAGAC C C G G A A A A G GAAAAAAGGAAAAGGGGAAGGAAAACCGAAAAA A A G GCCAAAAAAGGCCGGGGGGGGGGAAAAAAAA G G TATAA G G $G G A A A A G G A A G G C C G A A G G G A G G G G A G G G G G G G G G G A G A G A G$

 G GAAAAAAGGAAAAGGGGAGAGCCAGAGAAGGGACCAGAGAA C C G G G GAACAGAGAAGGGGGCAAAAGAGAAGGGGAAAAAAAA
 G G G G A A A A A A G G G G G G G G G G G A A A A A A A G GAGA A A A GAAAA A G G G G G G G G GACCACGGACGGCCAGAAGAAGCCGGCCAAGAAA G GCGAACCGGGGAAGGGGAAGGAAGAAGGGGGAAGGAAGAAA A A G G G G G G G G G G G G A A $\mathcal{A} G G G A G G G A A G G A A G G G G G G G G A A G B$ G GAACCGAAAAAAGAAAGGGAAGGAAGGAACCGGGGGGGGGG $G G A A A A C C A A G G C A A A G G G A G G A C G G G A G G G A G G G A A G G G G G$ G GCAGAAAAAAAGGAAGGAGAAAAAACCAAAAAAAAAAAGGG A GAAGGAGAGGGAAAAACCCCCAAAAAAAAAAGGCCAACAAA GAAAGGAAGGAGGGCCGAGGGGAAAGGGAGGGAGAAGAAGAG AAAGCCGGAAGGATGGAAAAAAAAGGAAGGGGAAAAAAAAAA AAAGAAAGAAGGGGCCCCGGAAAAGGAAAAAAAAAAGAAAAG A A A A G G G GCCGGAAGGCCGGCCGGAAAAGGAAAAAAAAGGCC A A G G G GAA A GCC G G A A A A G G C C A A A A G G G G G G G GA A G G G G A A
 G G G G G G A G G G A A A G A A A G A A G G G GCC G G G GAGGGAACACCCC G G G GCCCCCCAAAAAAGGAAAAAAAAAAGGGGGGAAGGGGAG C CAACCAGCCAAGAAGGGGGACGGAAGGAAGGCCAGAAGGAA AA G GAAGGAACCGGCCAAAAAAAAAAGGGGAAGGAAAAGAAA
 G G G G A A G G G G A A C C A A G G G GACAAGGAAGGTAAA G GAA G G G A A G G G A A G A C A A G G G G G A A A A A A G G G GAGAAACAAAACC GATA A A A G G G A A GA $A \operatorname{G} A A A A A G G G G G G A G G G A A A A A A A A C A A A G G G G$ G GAATTCCAGAAGGGAAAAACCCCGAGGGGAGGGAGCACCCC G GAAAAAAGGCCCCAGAAAAAAGGTTACAAAGAAGGCAGGGG CAAAAAACAGGGAGACGGAAAAAACCGGAAAGAAGGGGAGAA AAACGGCCGGAAGGGGCCAAGGGAGGCCCCAAAACAGGAAGG G GAACCAAAAGGAGGAAGGCCCGGGGGGAACAAAAAAAGGGA A A G G G G G G G GAGAAGGAAAAAGGAGGGAAAACAAAAGGAGAA
 G GAA $A \operatorname{GAAAAAGAGGGGAAAAGGCAAGGGAAGAGGGGAGGGCC}$ G G G G G G G G A A G G G G G G G G A A G G G G A A A A T T G G G G G GAC G G A A A A A A A A A A A A A GAACCAAAAGAGGAAGGGGCAAACCGGGGAA A A G G G GAACCGAAAGGAGAAAACCAAGGCCAAAAGGACAAAA T T A A A A GGGATTGACCAGACAAAAGGGGGGAAGGAAAAAAAA AAAAAAGGAAAAGGGGAAGGAAAAAAAAAAGAGGAAAGGGAA

G GCCAGGGAAGGGGAACCAAGGCCCCAAGAAGAGAAGGAAAC A A A A G GAA A G G GAAA A $A \operatorname{A} G A A G G C C A G A A A A G G G G A A G A A A A A$ A A A A G G G G A GCC G G A A A A A G GCGGGAACAAGGAAAAGGGGGG AAAA A G G GAAA A A A G GAAAAGGGAGGGGAAGGAAACGGAGAA GAAAGGAAAAAAGGGGAAGGAAGGCCGGAAGAACGGAAAGAG G GAGGGGGAAAAAAAAAAGGAGGGAGAGACGGCCGGAAAAAG GAGGCCCCCCCCGGGGGGAGGGGGCCAAGACCGGGGGGGGGG G GAGGAGGGGAAGGGACCAAAACAAGGGGGAGGGAAAAGAAA A A C A A A C CAGAAGAAAGGCCGGGGAAAGAAAAAGAGAAAA GA A G G GAAGGGGAAGGAGGAAGGGGGGAAGACAAGAAAAAGGGG
 G G G G A A A A G G G GAAAAAACCCCAAGGGAGGAAAAGAAAAAGG AACCGGAACCAAAAGGAAAACCGAGGAAGGGGAAAAAAAAGG A A G G A A A A G G A A A A G G G G A A G G A A G GAAGGAGAAAACAAAAA G GCCAAAAAGGGAAAAAAAAGGGGAAAAAAGGCCAAAACAAA A A G GAACCAAGAGGAAAGAAGGGGGGCCGGGGAAGGGGAGCC G G A A A A G G G G G G G GAAAA A G GAA $A \operatorname{A} G A A G G A A C C G G C C G A A A G B$ G G G G A A A A A A G G G G G G G G G GCC G G G G C C G G A A G G G G A A G G G G AAGGAAGGAGACAAAAAAGGAGGAGGGGAACCAAGAAAGGAA G G A A A G A A A A A A A A G GAA GA G A A A GAAAAAAAAA G GACCGGG A A A A A A A A G G G G G G G GAAAAGGGGAAGGAAAGCCGGAGAAAG A A A A G GAAAAAAAAGAGAAACCAACCAGCCAAAAGGCCGGCC G G G A A A A A A A A G C G A A G G G A G G G G A G G G G G A A A A A A $\mathcal{A} G G G G G$ A A A A G A G G G G A A C C A A G G A A G G G G A GAGGGGGAA G G G G A A G G G G G G G G G G GAAA A G G A A CAAA A G A A A A A A CAA A G GGGGGGAA G G AA $A G A A G G G G G G G G G G A G A A G G A A A A G G G G A G A A A A A G A A C C$ A A G G A GAGGGGGGGAGACAAAAAAACGGCCGGGGGGA
A G G G G A A A A A A A A A A A A A A A A A A GGGGCCAACCAAAAGAAA AACCAAGGGGAAAGGCAACAAGGAAAAACAAGAAAAGGAGAA G GAAGGCCAGAAAGAAGGGGGGAGGGGGAACAAAAAAAGGAA A A A G A GA $\operatorname{A} A A A A G G C A G G A A G G G G A G G A A A G G G G G A A A G G C C$ GGAAGGAACCCCCCAAGGAAAAGGGAGGCCAGGAAAAAAAAA AAGGCCGGGGGGAAAAGGAGAAGGAACCGGAGGGAAAAACAG A A G G G GAAA A C C G G G G G A A A A A A G G A A A GAA A A G GA GAA G G A A C C G G G A G G A A A A A A A A G G A A A A A A G GA GAAAA $A$ A $\operatorname{A} T \mathrm{~T} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ G G G G A A G G G G A A C C G G A A G GAAAAAAAAAAAAAGAAAAAACA G G G GACCAAGCAAAAGGGGGGGGCCGGAACCCCAGGGGGAAAG A A A G G GA A G G G GA A G GATAAGGAGGGAAGGGAAA GGGGGGTT A A G G A A C C G G G G A A G G A A A A $\mathcal{A} G A A G G G G A A G G A A A A G G G G A G$ C C G G A A G G A A G G A A G G A G G G A A A A G G G G C C G C G G G G G G G G G G AACCAAGGGGAGAGCCAGACGGGGAAAAAAGGAAAAGGAAGA A CAA $A \operatorname{GCCA} A G G C C G G C \subset A A C C G G A A A A A A G G G G G G G A A A A A$ AGGGGGGGCCGGAAGGAAAAAAAAGGAAAGGAAAGGAAACGG A A A A A A C C G G A A A A G GAGGGGGAAAAAAGGAAGGG GAA TAAA G GAGCAAGCAGGCCGAGAAAGGGGAAGAAAGGGGAAGGGGGG A GAGCCAAGGAAAAAAAAGGGGAAAACCAAGGAGGGAAAAAC A A G G G GA $\operatorname{ACC} C A A A A G G G G A A A A G G G G A A A A G G G G A G A G A A A G$ G GCCAAAGGGGGAGGGAGAAGGGGGGAAAAGGGGGGGAAAAA AAAAAAAAGGGGAGGGGGAAAGAAGGAACCGGAGGAGACAAA A A $\mathcal{A} G A A G G G G G G G G G G G G A G A A A A A A A G G G G G A A A A A A A G A G$ G GCAAGAGGGAAAGGAAAAAAAGAAAGGCCCCGGAAAAAAGG A GCA C GCAGGAACCGGAAAAGGAAAAGGCCGGAAGGGGGGAG G G G GCCGGCCGGAGAAGGGGGAAGAAAAAAAAGGCCBAAACC G GAA $A \operatorname{GAA} A A A A A A A A G G A A G G G A T T A A G A G G G G G G G G A A C A$ T T C C G G G G G G A A G G G G G G G G A A A A C C A A A A A A A A G G A G G G G G
 AA $A \operatorname{Gg} \operatorname{G}$ GAAAAAAAAAAGGGAGGAAAAGGAAAAGAGAACACAA
 $G G G G G G G A G G G G G G A A G G G G G G A A G G A C G G A A G G G G A A G A A A$
$C \subset A A G A A C C A G G A A G G C A G G G G G G A A C C A A A G G G A C C A C C A A$ ACAAAAAGAAAACACCGGAGGGGGAAAAAAAAAAAGAAAAAG ACAGGAGGATAAAAGGAAAGAGCCCCAGAAGAAAAAAAGGAG GAAGGGAAGGGGGGAAAAAAGGAAAGGGGGAACAAAAGGGGG G GAA $\operatorname{A} G \mathrm{C} A \mathrm{~A} A \mathrm{~A} G A A A A A A A A A A G G G G A G A A G G A A G G G G A A G A$ $C \subset A A A A G G A A C C C C A G G A C C A A G A T A A G G A C A G A A C G G A A G G$ G G A G A G G G G G A G G G G GCCAAAAAAAGGAAGGCCCCAAGGGGGG AGGGAAAAAAAAGGCCCAGAAGGAGGAAAAAAAAGGGGAAGA AAAAAACCAACCAAGGGAGGGGCAAGAGAAGAAAGAAAGAAA A GAAGGGAGGGAGGGGAACCGGGACGGAAAAACCGGGGAAGA C CAA $A \operatorname{GGGCCA} A A G A A A A C C G G A A A A G A A A C G G G G G A A A A G G$ A A G A G A A A A G A CAA A G A A A GAA $A$ G GAACCGGGGAAGGAAAA G G $G G A A A G A A G G G G A A G G G G A A G A G A G G G G G A G G A A G A A A G G G G$ $G G A A G A A A A A A A G G G G A A G G A A G G C C G G C C G G G G A G A A G A A A$ A A A A A A A A A A A A G GAAA A A A AA GAGGCCGGAA GAAA GGGGCC AA GAA AGAAGCCCCACAAAAGAGGAAAGGAAAGGGGGGAAGA CACAGGAAGGAAGGAAAGAGGGAAAAGGAAGGCCGGAA GAA G G G A A G G G G A A G G G A A A A A G G A A A A G G G G G G G G T T A A G G C C C C $G G C C A A A A A G C C G G G G A G G G G G A A A A G G G G A A A A A G A A G G A A$
 G G G GAGAAGGGGAAGGAACAGGAAGGGACAAAGGAGAAAAGG AAAAGGGGCCAAAAGGGGAACCGGAAAAGGCCAGACCCGGAG G G G G G G G G A G G G A A A A A $\mathcal{A} G G A A G G A A G G A G G G G G A A A G C G C C$ A GAAACGGAAGAAAAAGGAATTAAAAAAGGGGAGGGGAAAAA A A A G GAGGAAACGAGGAGGGAGAGAAGGAGAAAATTCAAAGG G GAACCAAAAAAGGAAAAGGGGCCAAAACCAAAGACACGGGG A A G GAA A G G G GAA $A \operatorname{AGGC} C A G G G G G G G A A A A A A A A C C G G C C B A$
 G GAA A GAAGGAGAGAAGGCCCAAGGGGGAGGGACCCCCACAA AGAGCAAAAAGGCCGAAAAAAGAGAAGGAAGGAGAGAAAAAC
 AGCCCCAGAAAAGGAAGGGGAACCAAAAGGAAGGAACCGGAA AAAACCAGGGAAAACCGGAAGGAAGGAAAACCAAAACCAAAAA $G G A A G G G G A G A A G A G G G G A A G G G G A A G G A G A A C C A A G A C A G G$ A GAG $A \operatorname{G}$ GAAGAAAGGGAAAGGAAAAGGTTCCAGGGCCCAAGAA G GAGCCAAGGGGAGACGGGGAAAAAAAAGGGGGGGBAAAGGA A A G G G G G G A A G GAGGAAAGGAAAAAAGGGGAAGGAAAAAACC $C C G G G A G G G G A G G G G G G A G G A G G G G G G G G G A A G A A A G A A G G A$ A A A A A G G G A A A A A A GAA $A \operatorname{AGGACCCAAGGGGAAAAGGGGGGCC}$ A A G G G G A A A A A A G G G G G GCAAAGGCC GAAAGGAA G GAAA GAAA $G G C C G A A G A A C C G G A G C C G A A A G G A A G G C A A G C A A A A A A A G G$ C C A C A G A A A G G G A A G G G G A A G A G G G A GACGACGAGGAAAAAA
 GAGGGGGGCCCCGGAAAAAAGGAAAAGAGGAAAGBAGGAGAA A A G G G G A A A A G GAA A G A A A A G GCCAAAAGGCCAAAAAAAA G G C C C C A A G G A A G G G G C C G G A A A A A C A A G G A A A A C C A A G G A C G G G G G A A A G G GAA A A A C CAAAAGGAAAAGGGGGAGGAGAACCAA A A A CAAAAAAGGGGGGAACCGGGGAGAAAAAAAAAAAAGGAA AAAAGGAAAAGAAAGGAACCGGAAGGGAAGAAAGCAAAGGCC C C G G A A A A G G A A A A A G GACCCCAACCGGGGCCAAAAGGGGGG G G G G A A G G A A G G G G G G A A C CAA A G G GAAAAAAA AAAAA G GAA A A A A A A A ACCAAGGCCAAGGCCGGCCAAGGAGGGAGAGAAAA G G A A G A G A A A G G G G A A A A C C C G G G G A G G G G A A A A A A G G G G A A GGGGAACCAAAGGGGGAAGGAAGGAGAAAAGGGGAAGAAAGG A A A A GAGGAGGAGAAAGGAGGAAAAAAGAGAGGA GAA GAGAAA G G G G G G G G A A G G G G G G A A A A G G A A G G A A G GAA $A \operatorname{AGGGAA} G A A A$ G G A A A A A G G G A A A A A A A A A A A A G GAAAAC CAAAAAAAAAGGAC A A A A G G A A G G A A G G A A G G G G G G A A A A A A A A A A A A A G G G G G G A A G GAAGGAACCGGAGAAAAAAGGAAGGAAGGAAAAAAGGGGGG

C CAAAAGGGGAACCAAAACCGGAAGGAAAGAAAAGGGGCCBA GAAGAAGGGGGGAACACCAAGAGGGGAGGGGGAGGGCAAAAG C C G A G G G G G G G G A A G A A A G G G G A A G G G G G G A A A A A A G G G G C C G GACAAAAGGAAAAAAGGAAAACCAAGGGGGGGGCCAACAGG AAAAGGAATTGGAACCGACCCCGGAAAAAAGGAAAAGGAGAA G G G G G A A A A A A A G G G G G G G G C C G G A A A A G GAA A A G GA G A A G G
 G G G G G GCCGGAGGGAGGGGGAAGGGGAAAAAAAAAAAAGGTT C CAA A G G G A A A A G G C C G G A A GAAGAGGGAAGGAAAAAAAAAA GAAGGAAAAGAAGGCCAAGGAAAAGGGGGGAAAAAAAAAAGG A A G G G G G G G G G G A A G G G G G G A A A A GAAACC $A \operatorname{AGGGCCGGAGAA}$ AACCAAAAAAGAAAGGAGAAGGAAACAGCCAGCACCGAAGGG $G G A A A A A A A A G G A G G G A G G G G G G G A A A A A G G G A G G G G G A A G A$ A A G G G GAAGGCAAATTCAAGAGGGGACCGCAGGAGACAAAAA G G G G G G G G A A G G G G A A GAGAAACCAAGGAAGGAGGGAAAGAC GAGGGAACGGAAGGGAGGAGAAGGGGAAAAAAGGAAGGAGAA G GAA A G G A GAACCCAGAAGGGGGGGGAAAAGGAACAAAAAGB G GAAGGCCGGAAGGCCAGAGCCAAGAAAGGAAAGCAAAAAGA G GAGAGGGAAAGGGGGAAGGAGAACCGGGGAAAAGGCCGACA
 G GAAAAGGGGGGAAAAAAGGGGGGGGAAGGCCAGGAGAGAAA G GAAGGGGGAAAATAGGGAAGGGGTTAGCCAAAAAAAAAACA A A G G G G A A A A G A A A A A GACCGACAAGAAAAGGGGGGAA G G G A
 G G G G G A A A G G A A G A A C G G G G GAGGAGAGCC GAAAAAAGAAG G A A G GCCAA $C$ A A A A A A A A G GACGGGAGAGGGAAACA GAGGACAA GGAACCAAAAAACCGGGGGGCCAAGGGAAAAAGGGGC
$C \subset C G G A A A A A A A G G G G G A A A A G G G G G A A G A C G A A A G G G A A A$ G G A A A A C C A GA A G GAA $A \operatorname{AGAGGAGGAAGGAAGGAAGGCAAAGG}$ AACCAAAGAAGGAGGGAGAGAGAAAAGGGAAGAAAGAAGAAA GAGACCAAGAAGAAAGGGGGGAAGGAAAAAAGACAAAACCBG AGAAAACCAAAGAAAAAACCCAGAGGAGAAAGAAAAACAAGG A A G GAAAA A A G GAAAAGGGGCCGGAAGGAACCAAGGGAAAGG
 G G G G A A G GCC G G A A G GCCGGAAGGAAGGAAAAGGAAAA G GA G $G G A G A A G G A A G G G G G G A A G A G G A A G G G A A G A A G G A A A A C C A A$ AACCGACCAAGGAAGGCCAAAGGGGGAGGGGGGGAAGGAGGG A A G GAGGGGCAAAAGGGGAAAACCAAGGAAGGAAGGCCAGGG G G G G A A G G G G A G A A A A A A G G G G C C A A G G C C A A G G G GAA G G A A C C G G A A G G G G G G A A G G A A A A G G G G A A A A G GAAAA $A$ A G G A GAA A GAAGGAACCGGAGAAGGGGGAAAGGCCAAAACCCCAAAAAA
 A GAAGGAAGGGGAACCAAAAAAGAGGAGCCGGAACCACAAGG G GAACCGGAAAAAGGGGGAAAAAAGGAAGGGGAAGGGAAAGG A A C C G G A A A A A A A A G G G G A A A A G G G G G G G G A A G G G G G G A A G G
 AA $A G A G A A A G A G A G G G A A A A G G A A G G A A G G G A G A G G A A A G A A$ CAAAGGGGGAGGAACCAGGAGGCACCAACCAGGGAAGGAAGG A A G GAAAAAAGGGGAAAAGGAAGGGGTTATAAGGGGGGCAAA G G GAA ACCAAGGAAAAAGACGGGAAGGACCAAGGAAGGGGCA A A A A A A A A G G A A A A G G G GAAGGAACCAGCCAAAA G G GAA G GAA AAAGGAGGAAAAAAAAGGCAAAAAAAAAGGGGGGAACA G G T A T $A$ G GAACCAAGGGGGGGGAGCCCCGGGGAAAAAAAACCAAGGGG AAGAGGAGGGAAGGAACAGACCAAAAAAAAGGGGGGAGGAGG A A GAGAAAGGCAGAAGCCTTAAAAGGGGGACCGGAAGGGGGG C C A G G G G G A A A A A A G G G GACAAAGAGAAAACACCAGAAAGAA G G A A A A A A A A A A G G C A G A A A GAGGGGGGGGGGCCGGAGTTAA GAGGGGAACCGGCCAAAAGGCCTTGAACGGGAGGGGGGAGAA G G GAGGAAGGAACCAAGGAAAAGGACGAGGAAAAGGGGGAAA

G G G G G G A A A A A A A A C GTTGGAAAAAGGAGGAAAAGGGAGGGG A A A A G GCCAGGGAAAGGGCCGGGGAAAGAGGACCAAAAGGAA AAAAACCCAGGAGGGAAGAACCAAAAAAGGCCCCGGAAAAGAG A A A A A A A A A A A A G A GAAAAA AAAAAAGGGGGGGGAAAAA G G G A A A A A G GAA A A A T TAA $A \operatorname{AGGAAACCAAGGAAGGGGGAGAAAAA}$ CAAAAAGGAAAGAAAAGGAACCGGAAAACCGGGGAACCAAAA G G G G A A A A A GCC G G G G G A A G G A G G A GAAGGGGGCAA G GAAAA AA $A G G G A A A G G A C C A G A G G G G G A A A A G A A G G G A G A A A A G G A A$ AAAACCGGGGAAAAGGGGAAAAGGGGAGAACCAAACAAAGAC A GAACCAACCGGAAAAAAGGGGGGAAGGAGGGAAGAGGGGGG $C \subset C \subset A A A A G G A A A A C C G G G A A A A A A A G G G G G G C C A A G G G G A G$ A A G GAA A A A G A A A A A G G G A CACAAGAGGGGAGGGGACCAAAA A A GAAAGAGAGGAAGACCAAAAAACCAGAAAAAAAAGBAACA CAAAGGAAGGAAAAGGCCGAGGAAGGAAGGGGGAGGCCABAA G GCCGGAGGGAGAAGGAGCCAACAGGCCAAGGAAAAAAGGGG GAAGGGAAGGAAAAAGCAAACACCAAAACCTAGGGGAAAAAA CAA $A$ A A A A G G G G G G A A A A A ACCCAGGGGAGCCAAAAGCAA G G
 A A G G GAG G A A G G G G A G G G A GCC G G G G G G C C A A A A A G A G G G G G A A A A A A G G A A A A T T A A A A G G A A G G A A A A T T A A A A A A G A C C A A A A A A A A A A A ACCAACCAAAAGGGGGGAAAGAAAAGGAACCGG G G G GAATTGGAAAAGGCCCCCAAAAAAAATTAAAAAGAATT A A A A A ACCAAAAAAGAAGGGAAGGGGGGCCAAAAAACCAAAG
 A A A A A A A A A G G G G G A C G G A A C C G G A A A A A A C CAA $\mathcal{A} G G G A A G G$ A A A A A A A A A A A A A A A A A A A A A A G GAAAAAAAACCAA G G G G A A A A A A A A A A A A A A CAAACCAAAGCCGGAAGGAATTAAAAGAAA A A A A G G A A A A G G A A A A A A G G C C C C G G G G G G G G G G C C G G A A G G G G G G A A G G A A G GAAAACAGCGGAGAGCCCCAAGGGACCAGAG $G G A A A C G G A A G C G A G G A G A A A A A A G G G G G G A A A A A G A A A A A A$ A A G G A A A A C C G A A C A A G G A A A A G G G G T T A A A A C C G A A G G G A C G G G GAGACCCGGAGAGGGAAAAAAGGAAAAAGAAGGAAAGCA G GAAAAAGCCGGGAAAGGAAAGAAGAAAAAGGAGGGGGGGGG C CAGAA $A \operatorname{G} G \mathrm{GA} A A G G A G A A G G A A A A A A A A C C G G A A G G A A G G G G$ A A A A A A A A A A G G G G A A C C G A A A G GAAGGGAAGAAGGGGAA GA A A A A A A A $\mathcal{A} G G A A A A C C G G G G G G A C A G G G G G G G A A A A A A A G E G$ AAGGCGGAGGACGGAGAAACAACCAAGGAAGGGAGGAAGGAC AA G GAA A G GACCGAAGTTAAGGGGGGAAGGAAAAACGGGGAG A A G G G A G A G G A A C C G G G GAC G G G G G G A A A A GAAA A G G A C C G G G G A A A A G A A A G G G A A A C A A A A A G GAAGGGGAACCAA G GAAC C A G TACCAGGGCCGGAGCCGAAAGGGGAAAAGGCCGGAAAAAA C C A A A A A A C C A GAA $A \operatorname{GA} A G G G G G A A A A A A A C G A G G G G B A A A A A$ G G G GAA A GAGAAAAGAGCAAGGGGAACCGACCGGAGGGAAGA G G G G A A C C A A C C G G A A A A G G G G G G A A G GAACCAC GAA GAA G G A A G G A A A G G G G GA $A$ A A A G G A A G G A A G G A G G C A A G G A A A G A A G G A GCCGGGGAGGAAGCCGAAACGAAAACCAAAACCAGAGAGAA A A C C A A A A A A C CAC G GCAA CAAGGAAAGGGCAAAAAAAAGAA A A A G G G G G G G G GAAAAGGAAAAGGCCGGCCAGGGGGGAAAAAA
 G A A A A A A G GAAAAAAAAAAAAAAAAAAAA GAAAA A AAGGGGGG G GAAGGCAAAAGAGGGAAGGCCAAAAGGAAAAGGAAAAAAAA G GAA A G G G A A C CAAAA $A \operatorname{A} G C C G A G G G G C C G G A G G G A A G G A A G A$
 ACAAGGCCAAGGCCAACCGAGGAAGGGGACAAGAAAAGGAAG C CAA $A \operatorname{G} G \mathrm{G} G \mathrm{G}$ A A A A A A G GAAGGGGAAAAAAGGAAAAAAAGAA A A G G A A A GCAGAGGAAAAGGCCAAGGGGAAAAGGAACCAAAA C C C C A C T T C C C C C C A A A A A A A A G GAAGGAAGGGGGGCCAA G G G G C C G G G G A A G G A G G G GC G A G G G G A GAA A GAC GAG GAAA A C A AAGGAAGGGGCCAACAAAGAAAAAGGGGGGAAGATTAAGGGG

G GAAGGGAGGAGAAGGGACAAGAAAAGAAGGGCCAAAAAGAA C C A GAGCCAAAAAACCGGGGGGGAGAGAAAAAGGGBAAAGA G A GCCGGGGGGGAGGGGCCAAAAAAGGCCGGCACCAAACAAGG G GAAAAGGAAGGGGAAAAGGAAGGCCAAGGGGCCAAAAAAGG

 A A G G A A A A A A A A A A G G G G G G A A A A GAGGGGAGAC G G G G G A A G G $G G A C G G A G G A A A G A C A A A G G A G A G A A G G T A A A G A G G A A A A G G$ CAAACCGGGGGAGAGAGGAAAAGGAAGGAGAAGAAAAAGGGG $C C G A G G G G A G A A G G A A A A G G G A G G C C A A C C A A G G G G A G G G G A$ G GAGCCGAACAAGGAAGAGAAAAAGGGGAAAAAAAAAAGGGG G G G G G G G G G G G G G G G G G G G G A A G G A A G G C C A A G G A A C C A A G G G G GAGCAGAGAGGCGGAAAAAAAGAAGGAAAGCCGAGGAAGG A A A A A A C C C C G G G G G G G GAAGGACACGGGGCCCCCAA TXTGG
 G G G G T T A A G G G G G G G G A A A A G G G G C C G G G G A A A A G G G GAA G G G GCCAAAAAAGGGGGGAGAAGGGGGGAGGGAAAAAAAAAAGG A A G G G GAA A G A A G G G G G G G G G G A A G G G G A A A A A A G G A A A G A A $G G A A A A G G A A G G G G G G G G G G G G A C G G A A C C G G A A A A A A G G A A$ A A A A A A G G A A CAAAGGAACCCCAAAATTCCGGCCGGGGAAAA AACCGGGGGGAAGGGGGGAAAAGGGGGGGGCCAAAAAAGAAA AAAAAAAAAAGGCAAAAAAAAAGGAAAAAAAAGGGGGGGGAA G G A A A A G GCCAATTAAAAAAAACCAAAAAGGGAGAAGGAA GA C CAACCGGCCAAGGACGGAAAAAAAAGGAACCAAAAGGGGGG AACCCCAAGGAAAAAAGGGGAAAAGGAAGGCCGGAAAAGGCC AA $A \operatorname{GGGAA} C \subset A G A A A A G G G G G C A A G G A G A A A A A G G G A A A A G G$ G GCCGGGAAAAAGGGGGGAGGGGGAAGGGGCCAAAAG
G G G A A C C A A G G G G A A G G G G C C A A G G A A A G A A T T C C G G G G G G C CAAAAAAAAAAGGAAAAAAAACCGGGGGGAAGGCCGAAAGG

 $C \subset A A G G G G C C G A G G C A G G C C G G G G G A A A C C G G A A A G A C G G G C$ G GAAAAGGAAAAAACCAAAAAAAAAAGGGGGACCGACCAGCC $C \subset C \subset C C \subset C G G A A G G C C G A G G A A G G G G G A A A A C C C A A A A G G G G$ G G C C A A A A A A G G G G G A G G G G G G A A G G A G T T A G A G G G C A C A G G G G G G A A A A A A C C A A A A A A A A G G G G G GAA $A$ G G G A G G G C C G G C C G GAA A A A A G G G G G G G G G GAA T TA A A A A A G GAA G G G G G G C C A A G G GAGGCCAAAAAGGGAGAGGGCCCCAAGGAAGGAAGGCCGG C CAGGGCCAAAAAAGGAAGGAAGGGGAAAAAAGAAAGGGGGG C C A A G G G G A A G G G G G G G G G A A G A A G G G A G C G G G G C A A A A A G G $C C G G A A A A G G C C A A G G A A G A A A A G G G G G G G G G A A A A G G A A G A$ G G G G G G G G A A A A G G A A A G C C C C A A C C C C G GAGGGAA G G G G A A G GAAGGAAAAGGAAGGGGAAGGCCGGAAAAGGGGGGAAAAAA AAAACCGGGGCCGGAAGGAAGGGGAAAAAAAAAACCAAGGCC C C A A A A A A G G A A G G A A C C G G G G G G A A GAC C G GAA $\mathcal{A} G G G G A G A$ A ACCAGAAAAAAGGGGGGAACCGGGGAAAGAAAAAGGGAAGG A A G G G G A A A A G G G G G G A A A A G GAA A GAAA GAAACG GA GAAA A AAAAAAAAAGAAGGAACCGGGGCCAAGGAAGGGGAAAAGGGG G G GAGGGGAGGGGGAGAGAGAGCCAACCGGGGGGGGAGAGAG A A G G A A A G G G A G A A G G A A A A A A G G G G G G A A A C A G A A GA G G G A A A A A C C T T GAGAGGCCAGGGGAGGGACCGGAAGGAAGGGGCC A A G G G G G G A A A A $\mathcal{A} G G G G G A A G G G G A A G G G G G G G G A A A G A G A A$ AAAGGGAAAAGGAAGGAAAACCAACCGAAACCGGGGAAGGAA
 $A A G G A G G G A A A G A A G G A A C A G G A G G G G G G G G G A G G G A G A G A A$
 GAAGGAGGACAGAAAAGGAAAAGGCCAGAAAAGGAAGGAGAA G G G G G G C A A G G GA T A A A A G G G G A A A C GA GAA A A A G G G A A A G G AAGGGGGGAAGGGGAAAGCCCCAAGGAAAACCAAGAGGAAAG

C C G GAAGGCCAACCAGAACCAACCTTGGAAAAGGAGAAGGAG A G G A A A A G G G G G G G GAGGGGACAACCAAGGGGAAAAGAAAAA A A A A G G G GCCGGAAGGAAAGAGGGGGAAAACCGGGGAAGGAG G G GAGGAGGGAAGGGGAAGAGAAACCAAGGAAGGAGAAAGAA GAAAAA AA GAAAGAGGAAAAAAAGAGGGGAAAAAAAAAGGGG A A T TAA A GAGAGGGGAGGAAAGAAGGGGAAGGAAAAGAAGAA A A G G A A A A G GCC G G G G A A A A G G G G A A A A G G G G A A A A A A A A G G AAAAAAAAGGGGAAGGAAAAAAAAGGGGGGGGAAAGAAACAG A G G A C A A A G G G G G G A G A A G G G G A A G G G G A A A A G G C A G G G A C A TAAAAGGGCCCCAAGGGGCCAGGGCAGGCCAAGGGACCAAAA GAGGGGGGAAGGAACCGACCGGAAAAAAAAAAAAAAAAAAAA G GCACCAAAAGGGGGGAAAAGGCCAAAAGGAAGGGATAAA G G C GAA A G G G G GAA $A \operatorname{GGGGAAAACAGGGGCCGGAGCAAAAAGGAG}$ AAAGAGAGCACAGAAGAGAGAAGGAAGGGGGGAAAACCCCGA G G G GAAAAACGGCCCAGGGAGAAAAAAAAAAAAAGGAAGGGG G GAA $A \operatorname{GAA} A G G G A A G A C C C G A A G G G G A A A G A A A G A A A A A A G B$
 G G G A A GAACCAAAAAAAAGGCCGAAAAAAAAATTGGGGAABA G G G GAAGGACAAGAGGCAGGCCAACCAGGGAAAAACAACCAA A A A A G G A A A A G G A A G G A A G A G G A G G G A A T T G G A C C C A A A A A G ACGGAAAAAGGGTTGGCCGGAAAAAAAAAAGGAATTCAAAG G A A G GAA A GAAGGAGGCAAGGGGACAAACGGGGAGAAAAGGAA C C A A A G A A A GAGAAAAAACCGGCCAGAAAAAAAAAGAAAAAA T T A A A G A A A A A ACCAACAAAGGCCGAGGGAGGGGAACCCCGG T TAA A G A A A A A A A C G G G GAGGGGGGAGGGGACGAAAAA GAAA AAAAAAAAAAGGAAAAAAAAAAAAGAAAAGGGCCAAGGGGAA GGCCAAAAGGAAAGAAGGGGAAAAGGTTAAAGCCAAAAAAAG A A GAAACCGGAAAAAACAGGAGAGGGAGGGCGAGGGCCCAAA G G A A A A A A C CAA $A \operatorname{GGGAAAAAAAAAAAGGAAGGAAAAGAAAGG}$ AAAAGGGGGGAAGGAAAAAAATAGGGAAAAAGGGAAGGAGAA A A G G A A G G A A A C A G A C G G G G A A G G A A G G G A G A A A A A A A G G A A GGGAAAACGGCCAAAACCCCCCGGCCAAGGCCGAGGAAGGGA AACCAGAAGGAAAAGGAAGGAAAGAAGGAAGGGGGACCAGAAA G G G G G G A A A G A C A A A A A A G GAAAAAA $A$ A A A A G G G G G G G G G A A G G G G G G A A G A G G G G G G C C A A G G A G A G G A G G G G A A A A G G A A G G G G $G G A G A A A A C G A G A G G G G G G G A A G G G G A A G G G A A G A A C A B A A A$ G GAA $A \operatorname{GAA} C \subset G G A A G G A A G G A C A G G G G G A A G A G A C C A T A A G G$ A GAACCAAGGAAAAGGGGAGAAGGAAAAGGAAGGAAGGAAGA A GAAAAGGAAAAGGGGTTAAAGAAGGAACCAAAGGGGGAAGA A A G G G A A A G G A G G G A A G G G GAA A G G G G GAACCGGGGAAAAAA $G G A A G G G A A A A A G G A A G G A A G G G G G G G G A A G G A A G G G G C C A G$ G G G G G A G G G A G G A G A A G A G G G G A A G G A A G G C C G G G G G G G G A A AAAAGGGGCCAAAAGGGGAAAAAAGGGGAATTACAAAAGGAA A A G G A A G G G G A A G G A A G G A A G G A A A A G G G G A A G G A A A A G G G A A G A A A A G G A A A A A A GAGGGGGGCCGGGAAAAGGAAAGAAAAC G G G GA A A A G G G GAAAAGAAAAAGGAAAGAGAAAACAAA GAAA G G G A G G G G A G A G G G G G C A A G G G A A A A G GAAAA A G G G GAAAAA A G GAA $A \operatorname{GAA} \operatorname{A} G A A G G A A A A G G A A G G T A A G A A A G C X A A G G G G G A$ AAAAAAGGGGAAGGGGAAAACCGGAAGCAGCAAAAGAAAAGG
 A A A A A A A A G G G GAAGGAAAACCAAAGGGGGAAGGAACAAAAC

 C CAAAAGGAAAAAAAACCGGAACCAAAGAAAAA GAGGGAGAA $T \mathrm{~T} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A \mathrm{~A} G \mathrm{G} A A \mathrm{~A} G A A A A A A A G G A A G G A A C C G G A G A A$
 G G T T A A C C G G A A G G A A G GAA $A \operatorname{AGGGGGCCAAGGGGAAGGGGCC}$ AAAAGGAAAAGGGGGGAAAAGGAAAAGGAAGGAACAAAAAAA A A G G A A G G G G A A A A G G G GCCAAAAACCGGGGCCAA GGGGGGGG

A A G G A A G G G G A A G G G G A A A A A A A A $\mathcal{A} G A A A A A A G G G G G G G G G G$ T T C C A A A A A A G G G G G G G G G GAA A G A A A A G G G G G GAAAAAA C C AACCGGGGCCGGGGAAAAGGAGAAGGGGAAAAAAGGCCBGAA G GAGAAAAAAAAGGAAAACCAGAAGGGGGGAAAACCGGCCGG G G G GAAAAAAAAGGAAGGGGAAAAGGAAGGCCGGAACCAAGA AAACAAGGGGAAGGGGAAGACAGAAAAAAAGGGGCAAAAAAA A A G G G GCCGGGGGGCCGGAACCGGGGGGCCAAGGGGACAAGG G G GAGGAGAAAAGGGGGGGGAAAAACCCGGCAAAAAAGAAGG G G G G A A A A G G G GAA A G G G A A A A G GCCGGAAAAGGGGAGAAAA AAGGAAGGGGGGGAAAAAAAGGCAAGGGCCGGGGAACCAAAA A A G GAAGGAAGGAAGGAAGGCCAAAAGGGGCCAACCAAAAAAA AACCGGCCCCGGAAGGGGGGGGAAAAGGAAGGGGAGGAAAAA G GAACCCCAGGGAAAAAAAAAAGGGGAAGAAGCCAAGAAABG GAAA $A \operatorname{Ag} \operatorname{G} \operatorname{GA} A A A A A A G G G G G G A A A A A A G G A T A G A A G G G A G G G G$ G G G G G G A A A A A A G G A A A G C A G GAGAGGGAGGAGGAAAA GAAA G G G G G G GA G GAAGACCAACCGGAAGGAAAAGGAAGGCCCCGG CAAAAAGGAGAAAAAAAAAAAAAAGGCCAAGGGGAAACAAAG G G G G A A G G G G C C G G G G C C G G C C A A G G G G G G G G G G A A G G G G G G $C C G G A A G A C C G G G G G G A A A A A A G G C C G G A A A A G G G G A A G G G G$ A GAA $A \operatorname{GAAAAAGGGGAAAATTGGAAAAGGAAAAAAAAAAGGAG}$ AAGGGGAAAAGGGACAGGAAGGGAGGAAAGGGGGGGGAGAAA A A A A G G GAA A CAGGAAGGGGGGAAAAGGAAAAAACAAAGGAA GACCAACCAGGAAAAGGGGGGGGGCCAAAAGGCCGGCCAACAC G GCCGGGGGGGGACGGAAGGGAAAAAGGAAAAAAACGAAAAG A A A A C C G G G G A A G G C C G G G G A A G G G G A A A A A A G A G G A A G G C A GGCCCAAATTGGAACGAGAACCGGCCAGGGAAGGGGAACCGG A A A C A A C C G G G G G GAGGGAGAGGGCCCCCCACGGGGG
G G A G G A A G G C C A A G G G G A A G G G G G G T A G G A G G G C A A A A A G G A A A A A A G G A ACC G A GAGGAAAGGGAGGGCCGGAACCAGAAAA AAAAAAGGAGAGAAAAGGAGAAAACCGGGAGAGGAAGGAAAA A A A A G G G G A A A A G G A G C C A A G G A A G G G G A G A A G G A G G G G A G G GAAAAAAAAAAAGGGAGGCCCCAAAGAGGGAAAACCGGAAGAG A G G G G G G GCACCAACCGGAGAAGGAGAGACGAGAAACCCCGG G G G G G G A A A A A A G G G A A A G G A A A G A G G G A A G G G A G G A G A A G G G G G G G A A G A A G G G G A A A A A GAGGAAGGGAAAAAGAAAAACAG GAGACCAGGGAAGGAAGAAGGGGGGGAGAAAAGGGGAACACC G G G GAA A GAACCGAGGGGCCAAACAGAAAAAGCAGGCCAGAA G G G GAGAAGGAAGGGGAAGGAAGGAAAAGGAAAAGGGCAAAA A A G G G G G G A A GAGGGGGACCAACCGGAAAAAAAAGGGAAACC G G A A G G A G T T G G C C G G G G G G G G G A A A G G A A C C A A A A A A A G G G G GAGAAAAGGAGAAGGCCGGAAACAGAACCGAGGAAGGACAA G A A A A A A A G G G G G A G G A GAAAA A G GAAA A A A G GAAAA A GAAA $A$ GAGGAAGGGGGAGGGGGGAAGGGGCCAAAAAAAAAAGGAAAA A GCCAAAAGGAAAAAAAAGGAAAAGGGACAAGAGAGBACAAA GGCCGGGGAAAGCCAGAGAAAAAAAAAGCCAAAGCAAAGAAA A A A A G G G G G G G G A A A A G G G A A GAAAA $A \operatorname{ACCCCCGGGGAAAAAA}$
 AAGGGGCCAAAAGGAAAGACAAGGAAAAAGGAGGAAAAGAAA $C \subset C \subset C \subset C C G G A A C C A A C A G G A A A A A A C G G G G G T T G G C A A A C A$ G GCCAAAAAGAGAGAAAGGGGGAGAAGGAAAAAGAAAAGGGG
 A A G G A A A A G GCCAAGGAAGGAAAAAAGGGGGGAAAGCAAA G G
 G G G GAAAAGGAAAAGGAAGGCCGGCCGGAAAAGGGGGGAAAA G G A A A A G G G G G G A A A A A A A A G GCC G G G G GAA A A A GACA G GA G A A A A A A A CAGATA GAAAGGGAAGCAAGGGGCCCCGAACGGGG A A G G G G G A G G A G A A A A G GAA A CAA A A GA GATTCCGGGGAGAA C C G G G G A G G GAA A GAAAAGAAGAAGGAGAAAAGAGGAAAAAA $C \subset A A A A G G C C A A G G G G A A A G C C A A G A A A A A A A G G A A G G G G T A$

A A A G A G G G G G GAGGGGGGAAAAAAAACAGGAAGGAGCCAAGG G G G G G G G G G G A A G G G G G G C A A A A GCAAA A A C C A A G G G G A A G G G G G A G A G G A A G G G G A A G GA $A$ A A A A A A A A G G G G G G G G G A A G G A A A G GAGAAACCAAAAGGGGTTGGAAAAGGAAAACCCCGGGAAA A GCCAGAAAAAAGGCCCCGGGGCCCCAGCCACGGGGAAGGGA A A A A G G G G G G G A A G G G G G G G A G T T A A A A A A CAAAAA A G G G A A G GAGCAAAAAGGGGAAGGGGGAAGGGGGGAGGGAGAAAAGAA G G G GAAAAGGAAGGAGGGAAAAAAGGGGGAGGCAAAAAAGAA C C G GCC G G A A A A C A C C C C G G G G G G A A G G A G G G G G A A A A G G G G G G G G G G G GAGAAAAAAAAGAGGAAGGAAGGGGGAGGAAGAAA AAGGCCAAAAGGGGAAGAGAAGGGGGAACCGGAAGGAAAAAA G G G GCCGGAAAATTAAGGAAAAAAGGGGGGAAAAGAAAGGBA A GAGACAAAAGGGGAAGGGGAAAAAAGGGGGGAAAAAAGGAA G GAAAAGGGGAAGGAAGGAAGGCCAAGGGGAAGGGAAACCGG GGCACCGGGGAAGGACAAAAAAAAGAGGAAAAGAACAAAAGG AA G GAAAGAGAAGGCCGGACAGCCAAGGAAGGGGACGGAGAA
 G G G G G G A A A A A C G G G G A A G G G G A A A A G GAA $A \operatorname{A} A A A C C G G G G G G$ A GAACCAAAAGGGGGCAGAAACAAGAGGCCAAGGGAAGAGAG A A A G G A C C G G A A C C G G G G T TAAAAACCGGGGAAGGAAGGCAAA G G G GCCGGAAAAAAAAAAGGGAAAAGAAAGAAAAGGGGGAAA G GAACAAAAAGGGGGGAAAACCCCGGAAGGCCGGAAAGAGAA GGCCGGCCAAGGGAAAAAAAAAGAAAAAGGGACCGGGGAGAA G G G G A A G G G G A A C C G G G G A A G G A GAACCCAGGAAAA A A GAA $\mathcal{A}$ A A T T A $\mathrm{T} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAGGAAAAAGGACGGGGAAGGACCAAAAAAA A G G G A G A A G G G G G G A A C C G G G G C C A A G G G G A G A A A A A A C C C C GAGGGGGGAAGGGGAAAGGGCAAGAAGGAGAGGAAGGAAAAA A A A A A A ACGGAAAAAAGGGGCAAGAGGGAGCAGGGGAAACAA G G G G G G A A G G G G A A G G G A A C G G G G G G G G C C G G G G C C G G G A G G $G G G A A A G A G G G G G G A A A G G G A A G G A C A A C C G G A G A G G G A A A G$ A GAC A G A A G A G A G G G G A A G G A A A A A A G G C C T T A A A A A A G G A A G GAAGGGGAAAAAAAAAGGAAGGGAAAAAGGGGAGGGGGAAA G GAAAAAAAAGGGGGGGGGGGGAAAAGGGGGGAAGGGAAAAA A A G A A A A A A GACACAAAGGACCGAGAGGGGAGAAGGGAAAAA GAGGGGCAGGGAAAGGGGAAAAAAGGAAGGAAAAAAAAAA GA AGAGCCCCAGAAGGAACCGGAGAAAAGGAAGGCCAAAGAAGAG G GCCGGAAGGAAACGGAGGGCCAAGGGGAAGGGGAAGGCAAA G G G GAA A G GAGGAAGGAAAAAAAAAAAAAAGGAGAAAAGAGG GAGGGGAACCAAGGGGAAAAGGAAGGAAGGAAGGGGAAAAAA
 AAAAGGAAAAAAGGAGAAAAGGAGAAAAGGAAAGAAGGAGAA GAGGAAGAGAGGAAAAGGGGGGCCGGCAAAAGGGAAAAAAGG

 G G G G A A A A A A A A G G G G C C A A A A G GAA $\mathcal{A} G G G G G G G G G A A A A A A$ AAAAAAGGCCAGAAGGAAAAAAAAAAAAAAGGGGAAAAAAAG $G G C C G G A A A A G G G G A A G G G G A A A G G G A A G G G G A A G G A A A A G G$ AAAAAAGGAAAAAAGGAAAAGGGGCCGGAAGGAAAAAAGGGG G GAA A GAA A GAAGGAAGGCCGGAAGGGGAAAAAAAAAAAAAA G GAAAAAAAAGGGGGGGGAAGGAAAAAAGGCCCCCCGGACAA AAGGGGCCAAAAAAGGAAAAAAGGAAGGCCGGAAAAAAAACC A A G G A A A A G GAAGGGGGGAAGGAAGGAAGGAAGGAAAAAAAA G G G G A A G G G G G G A A G G G G A A A A C C A A A A G GAAGGAAAACAAA GGAAGGCCAAAAAGGGGGGGGGGGCCAAGGAAAAAAAAGGCC AA $\mathrm{A} G A A A A C C G G A A C C G G G G A A G G C C G G G G A A A A A A G G G G G G$ AAGGAAAAAAAAGGCCAAAAGGAAGGGGAAGGAAAAAAAAAA G GAAGGAAAATTAAGGAAGGAAGGAGAGAAGAAAAACCAAAA C C A A G GAA $A \operatorname{GAAAACGGGGCCAAAAGAAGAAGGGGAAGAAAAA}$ AGGGAAAGCCAACCAAGGCCGGAAAAGGCCGGAAAAAGGGGG

G G G G G G T T G G G GC C A G G GAACCGGCAACGGAAAAAA G G A A GAA
 A A A G GACC GAG G G G G G G G GAACCAAAAAACCCAGAGGAAGAGA G GAAAAAGACGGAAAGAAAAGGGGGAGGAGAAAAGAGAAAGG A A G GAGGGGGGAGGAAAAAGGGAAAAGGCCGGGGCCCCAGAA A A A A G G GAGAA $A$ A A A G GAGAAAAAGGGAAGGGGGGAAGAAAAA GAGGGAGGAGAAGGGAAGGAAAAAAGGGGGAACCAAGAAGAA AAGGCCGGAGAAGGAAGGGGCCACGGGGGGGGGGAAAAGGGG G GAACCGGCCAAAAAAAAGGGGAGGGGAGAAACCAAAAAACA G GAAGGGGAGGGAAGGGGAAGGAAAACCAAAAAACAGGG GAA $C \subset G G A A G G G G G G G G C C G A A A C A G A G G G A A A A A A A G G A G A G C C$ A A A A G A A A G G G A G G G G A A G G A A A A A A G G G G G G G G A A G A A A A A GAGAGGAACCACGGAAGGGGAGAACCGGGAAAAAAAAAGGAA AA $\operatorname{G} A \mathrm{~A} G \mathrm{C} A \mathrm{~A} C A A A G G G A C A A G A A A G A C C G G A A G G G G A G A G A A$
 CAGGAGGGGGAGAAAGGGGGAGAAGGGGGGGGGGAACAGAGG
 G G G A A G G G G G G A A G G G G G A A G G G G A A A A G GAAAAAAAA A A G C AAGAGAAGGACCAGAAAAAGACGGGGAAAAAGAAAGAAAAAA A A G G A A G G A A G GCCAAAAAAGGGAAAAAAGAACCAACCAAAA GAGGGAAAGGGGGGAAGAGGGGAAGGGGGGGGGGAATAAACC GACACAAAGGGGAAGGAAAAGGAACCGGGGGGAAAAGGAGAA G GAGGAGGAAAAAAGGGGAAAAGGAAGGGGCCGGGGACAGGA A A G G A A A A A A G G C C G G G G G G G G G G A A G A A A A A G A A GAAAAAA A A A A A A A A A A C A A A A A A CACGAAAAAGGAACAA GAAA GAA G G A A A A G GAA $A \operatorname{GAAAAAACCGGGGAAGGGACCAGACAGAGAGTT}$ G GAAGGGGAAAAAAGGAAAAGGAAGGGGGGAAAAAAA
C G G G G G G A A A A A A A A A A G G G G G G A A A A A A G GAA A C A A G G G G AACCCCAAAAAACCGGAAAAGGGGAAGGAAAAAGGGGAAAGG G GAGGGGGGGGGGAAGGAAAGGAGGGAGGGGGAAGGGGGGT$T$ A A G G G GAAAAAAAAGCAAAGAAAAAAAGGACCAGAAAAAAGB AAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGCCGGGGAACC A A A A G GAA A G G G G GAAAAAAAAGGGGGGAACCAAAAA GACAA
 A A A G G G G G A A G A A G A A A A G G A A A A GAGGGGAACC GAGAAAC C
 G G G G G G G G G GCC C G G G G G G G G A A A G GAACC G GA A A A A A A A A A AAGGGGGGAAAAGGAACCAGGGGGAAAGCCGGAGGGAGAAAAA
 G G G GCCAGGGGGGAGGGACCGGAAAAGGGGAAAAGAAAAACC G G G GAAGGGGGAGGGAAAGGAAAAAAGAGAAAACCGAAAGAA A A G G C C C C G G G G A A G G G G C C G G G A G G A G A A G G G G G G A A A A G G A A A A A A A C G GAGGAAAAAAAGGGGGGGGGGCCGGGGGGGGCC C C G GAA $A \operatorname{GAAAAAAACCGGGGAAAAAAAAGGGGAACCAACAAA}$ C C A G A A G G G G G A A A A G G G G G G G A C G G C C G G G G G G A A G G A A A $G$ G G G G G A G A A A G G G G G A A A A C G GCC GACAAGAAGAA GAACAAA
 CAAAACAACCCCAAGGAAAGGACAGGGGGGAAAAGGGACAAG AAAAAGCCGGCCACCCGGCAGGGGGGAAAAGAAAAAAAAAGG G G G A A A A A A A A ACCAACCCAGGAAAGGAGGGGGGAAAA GAAA A A A A A A GA GAA $A$ A A A A A GAAGGAAGGGGAGAAGGGAGAAAAA AACAGGGGGAAGAGAAAAGGAAAAGGAAAAAGGGAAAGAAAA A A A A G G A G A A $\mathcal{A} G G G A A G G G G G G C C A A A A G G A A C C C C G G A A G A$ A AAAGGAACCCCGGGGGGAAGAAAGGGGAAAAGGAAGGGGGG GGCCCCCCAAGGGGAAAAAAAACCGGAACCAAGGAAGGGAAA G GAAGGGGAAAAAAGGGGAAAAGGAAAAGGAAAAAAAA GAAAA AC $C$ A $A G A A A C G G G G G G A A G G G A A A A C G G G G A G G G A G A A A C A A$
 G G G GAAAGAGTTAAAGAAAAGGAAGGAAGGAAGGGGGAAAGA

G G G G GA A GACAGGGCCAAGGTTGGGGGGGGGGAACCAAGAAA A A A A A A G G G GCCAAAACAGGGGCCGGAAAAAAAAAAGGGGAA G G G GAAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A A A A A A A A A G G G G A G G G G G A G G A A G A G A A$ AAAAAGAAGACCCGAGGGGGGGGAGGAAAAGGGGGGAAGAAG AAGGCCGGGGCCAAGGAAAAAAAAGGAAGGAAGGAAGAAAGA G G G GCCGGGGAAGAGGGGAAAAGGAAAAAAAAAGAGGGGGGG AA G G A A A A G GCCAA $\mathcal{A} A \mathrm{~A} G \mathrm{G} A A A A G G A A A A G G A A G G A A A G A G G G$ GAAAGGAAGGGGGGAACCGGTTAGCCAAGGGGGAAAAAGAAA C CAAAA $A \operatorname{A} A G \operatorname{A} A A A A G G C A A A A G G A A G G G G G G A A A A C A G G G G$ G GAAAAGGAAGGGGAAGGGGAAAAAAAAGGAAGGAAGGCCGG AAAACCGGGGGAAAAGAGCAAAGGAAAAGGGAAAGGACAACC G G G G G G A A A G G A A A C C A A G GAAAA A G GAAAGGTTAAAAC CT T A A G G A A G G A A A A A C C CAGAGAAGGAAGGATAAAAAAAC G GAAA A GAAAAGGCCGGAAAAACCAAAAAAAAAGGGGCAGAGGGGAAA GAGAGGGGGGAAGGAAGGAAGGGGAAGGAACCAAGGGGAAGG CCGGGGAGAAGGAAAAGGAGAAAAAAAAAGGACCCAAAAAAA ACAAGGCCAAGACCGGCCAAGGGAGGGGAACCAAGGGGGGCC G G G G A A A A G G G GAAAA $A \operatorname{A} G A A A A A A G G A A A A A G A A A A G G G G G G$ C CAAGCGGAGGGACATGGAGCACACGCCGGAAGGGAAAAAAA A A G G G GCCGGAAAAAAGGCCCCAAAAGGGGAAGAAAGGGGGG G GAAAAGGAAAAGGGGAACCAAAAGGCCGGGGGGAAAAGGGG G G GAGAAAAAGGAAGGAAGGTAAAGGGGAACCCCGGCAAAAAA A A A A G GAA A G G GAACCAAAGGGAGGGACGGAAAAAAAACCBG
 GAAAGGGGAAAAAACAAGGAAGAACCCCAAGGAAAAAAGGAA ACCCGGAAAAAACCCGGGGGAAAAGGCCCAGGGAAAAAAAAAA
 A A G G A A A A G GCCGGGGGAAAGGAGGGAGGGGGAAGAAAGGAA G GAA A G G G A A A A A G GAGGAAAAAGGAGAGGGGGGA GAAAAAA ACAAAAAGCCGGGGGAGAGAGGAGAGAAGGAAAGGAGGAGAA
 AAGGGGGGAAGGTTAAGGAAAAAAGGGGAACCAAGGGGAACA GAGGAAGGAAAAGGAAAAGGGAGGGGAAAAAAGGAAAGAGAA GAGAGGAGCCGAGGAAGGAAAAGAAAAAGGGGCCGGAGGGAC
 A A A A G G G G G G G G A A G G C C A A C C G G G G A A G GA G G G C A G A G G A G A A G G G GAAAAA A $A \operatorname{A} \operatorname{A} A A G G A A G G G G A A G G G G A A G G A A A A A A C C$ AACCGGAACCAAGGAAAACCCCCCAAAAAAGGAAGACCACAA G G G G G A A A A A $\mathcal{A} A G G G G G G A A G G G A C C G G G A A G A A G G A A G G G G$ A A G G A A A A G G A G G G A A G G G A G G G G G G A A G G G G A A G G G G A A A A $G G A A G G G G G A A G A G G G A A G G G G G G C C G G G G G G G G G G A A G G G G$ A A C C G G G G G A A A G G A C A A G G C C A A A A G G A A A A G G C C G G G G G G AAA A G G G GAACCGACCAGAAAAGGGGCCAAGGAAGGTTAAAG A A G G G GAA A G A G A A A G A A G GAAAAGGAAAGAAAA GAAAACAC A A G G A A $\mathcal{A} G G G G G A A G G G G A A A A G G G G G G C A C C G G C A C A A A A G$ A A G GCCGGCCGAGACCAGAGGGAAGGGGCCAAAGAAGAAAAA A A G G G GACGGGGGGAAAACCGGAAAGCCGGAAAAGAAAAAAA
 A GAA A G G GCCAAAAAAGGGGGGAAAAAACCAAGGGGGGAGAAA G G G G A A A A C C G GC C G G G G G A G G G G G G A G G G A G C C G G G G A A C C G G A A A A G G A A A A G G G GAGGGGGAAAAAAAAAAGGAAAACAAA G GCC C G G G G G G G C C A A A A A A A G G G G G G G G G G G G A A A A A A G G G G G G G G G G G G G G A A G G A A A A G G A A A A G G A A A A G G A A A A G G G G A A AAAAAGAGGGGGGGGGAAAAAAAAGGAAAAAAGAAAAAGGAG G G G G A A G G G G G G G G G G A A A A A A A A A A G G G GAAAA A C G G A A G G G G A A C C G G A A A A C C A A A A G G G GCCGGCCGGGGGGAAAAGGCC G G G GAAAGAACCGGGGAAGGAAAAAAGGCCGGAAAAGGAAAA AAAAGGAAAAGGAAAAAACCAAAAGGGGGGCCCCAAAAAAAA G G G G G GAAAAAAAAGGAACCAAGGGGGGAAAAAAGGCAAAGG

AAAACCAAAAGGCCATGGAATTCCAAAAGGGGAACGCAAACC A ACCAA G GAAAA G GAAAAGGTTGGAACGAAGAGGGGGGAACA A A A G G G G A G G A G G GAAAA $A \operatorname{AGGGAAAACCAAGGAGAAGGGGAG}$ G G G G G GAAAAAGAAAACCAAGGGAGAGGGGGGGGGGAAAAAA G GAA $A \operatorname{GAA} A G C C C C G G A A G G G G A A A A A A G G A A G G C C G G A G A C$ $C \subset A A C C A A G G C A G G G A A G C C C C G G A A A A A A A A G A G G G G A A G G$ A G G G A A G G A A C C A GCCC C A A G G G G A A A A A A G G GA GA G G G G G G G G G GAAAAGGGGTTGCCGGAAGGAAAAAAAAAAABAGCCGG A A G G A A A A G G A G A A G G C CAC GAACAGGAGGAGAGBAAAACCC $A G T T T T A G A A G A G G G G A A A G G C G G A A G G A G A A A A A A A G A A G A$ C C G G G A GACCAAGGAGAAGGGGAAAACCGGAACCAAAAAAAA A A G G G GAA A G G G G GAAGGGGAAAAGGGGGGAACCAAAAAAAA A A G G A A A A C C A A A A G G G G G G A A G G A A G G G GAACC G GAA A A A G G G G G G G G G C C A A G G G G C C A A T A G G G G G GAAAAAAAAA A G G G A A A A G G G A GAGGAAGGGGAGAGAAGAAAGGGAGGAAGGGGAGAA G G G G G G G G G G A A A A G G G G G G G G G G G G T T G G A A A A A A A G G G A A $G G A A A G A A C C C C G G A A G G A A A A G G G G G G G G A A A A A A A A G G G G$ G GCCAAGGGGGGCCGGGGAGCAAAGGGGGGGGGGGACAAAAC G G G G G G G G A G G GAAAA $A$ AGAAAACCGAAAGGAAAACAAAAAAG AAACAACCAAAAGGAAAAAAGGAAAAAAGGGGCCAAAGAAGG G GAAGGGGGGGGAAAAAAAAAAGGAAAAAACCAAGAAAAAGG G GCCGGAAGGAGGGGGAGATAACCGGGGAAAAGGCCAGAAAA A A A A A A A A G GAAGGGGGGAAAAGGGGGGGACCGGCCGAAGAA G G G G A A C A GAGGCAGAAAGGGGCCAAAAGGGGGGAA GAAAAG G G A A G G G G A G A C G G A A A A A A G A A A G GAGGGAAGAAAAGAAG G A G G G G G A A A A A A G G G GAA $A \operatorname{AGGGGGAAAAAAGGAAGAAAACAA}$ G GAAAAAAAACCAAGGAAAAAACCAAGGGAGAGAAAA
GAGCCAAGAGGGGAGGAGGACCAAAAAAACCGGAAAAGGCC G G G G A A A A A A C C G G G G A A G G C C G G A A G G G G A A A A A A G G G G A A A A G G G G G G G GAAGGGGGGAGCAGGAAGGGAGGGGGAAA G GAAA CAAAGGGGGGAAAAGGTTAAAAGGAGCCGGAGGGAAAAABAA A GAAGGGGGAAACCAAGAGGGGGAGGCCGGGGAACCGAAAAA G GAAGGGGAAGGAACCAAGGCCGGCCAAAAGGAAAAGAAAAA A A G G G G A A A A A A A A G G G G A A A A A A A A A A G G G G C C G G A A A A G G A A G G G G A A A A A A A A G G A A A A T T G G A A G G G G G GAAAA A G A A A A $G G A A A A A A G G G G C C A A G G G G G G G G A A G G G G G G A A A A A A A A G G$ G GAAAAGGAAGGGGGGGGAAGGAAAAAAAAAACCAAGGAGAA GAAAGCGGAAGGGGAAAAAAAAGGGGCAAAGGGGGGAAAAAA

 AAAAGGAACCAAGGGGGGGGATGACCAAAAAAGAAAACBAGG G GAAG GAAAAAAAAAAAAAAGGGGGGGGAAGAGAAACCBAAA A GAAGGAAGGGGGGGGAAAAAAAGAACAGGAAAACCGGGGGG $A C C C A G A G G G G G C C G G G G A A A G A A G G G G G G G G A A A A A A C C G G$ C C G GAACCGGGGGGAAAAAAGGCAAAGGAAGGGGGGAAATAA
 A A A A G G G G G G A A A A G G G G A A A GAA A CAAAAAAAAA A GA G G G G A G GAGAAAAAAAAGGAAGCGAGGAAAACAGGGGGGGAAAAAAG A G G G GAGGGGCCGGGAATAAGAAAAAAAAGAAACAGCAAAGA CAAAAAAGAGGGCAGAGGGAAAAGACGAGGAAGAGEAAGGGG GAAACCAGGGACCCAAAAAAGGGCAAGGAAGGACACGGAGGG
 G G A A G G A A A A A A C C G G A A A A G G A A A A A G C C G GAGGGCCAAA G C C G G G A A A A G A A A A A A G GACA G GAAACCAAAA G G G GAG G G G A $G G C C A G A A C C A A G G C C G G G A A A A A G G G G A A A A G G G G A A A G G G$ GAAAAAAAGGAAAGAAAGCCAAGAGAGGGGAAAAGGGAAAA G A A A A G GAAAA A A C CAA A A GAGCGGAAAAAAGGGGGGGGGGCC G G G G G G C C G G A A G G G A G G G G G A T T A A GAGGGGGGAACAAAC G $A G G G A A A A G G G G G G A C A G A G G G G G G G C A A A C C A A G G A A A A A A$

G GAA A G G G G G G G C A G G A A A A A A G G G GAAAAAAGGGGGAG T T A A G GCCAAGGGGAGGGAAAAAAAAAAGGGGCCAAAAGAAGBA G GAGAAAAAAGGAAAAGGAAAAGAAGAAGGGAAAGAGGAAAA AAACCCGAGGGGGGAAAACCCCAAAGCCAAGGTTAAGAGAGA AACCAAGAGGAACAAAAAAGAAAAAAGGAGAGAAAAAGAAAG A GCCAAAGCCCAGAAAAAAGGGAGAAAAGGAAGGGGAAAAAG A A G G G G G G G G A A G C GAAAAAGGCAGGGGAAGAAA G G G G GAAAAA G GAAGGGGGGGGAAAAGGCAGGAAGGAAAAACGGAAGGAGAA A A G G A A A A A A GAGGAAGGCCCCGAGGGAGGAGAA GGGGAGCC AACCGGCCGGAAGGAAAACGAGCCGGGGGGGGAAAAGGAGAA G G G GCCAGGGGGGGAGAACGCCGGGGAAAAAAGGAAGGGGGG G G A A G G A A C C A A G G G G A A G G G G A G G G C C G A G G G G G G G G G G G G A A A A G GCCAAGGAGGAAACCGGAGGAGGGAAGAAGACAAAAA G G G G G G A A C C C CAAAAAAAGGGGAACCAAACAGGGGAAGAAAA AAGGGGGGAACAAAAACCAAAAGGAAGGGGGGAGAGGGGGTT A A A A GAGAAGCAGGAGGGAGGGAAAAAAAATTAAAAGAAAAG
 GAGGACAAAAAGGAGGAAAAAGGGGGCAGGGGCAGGAAAAAA $G G C C G A G G A G G G A A G G A G G A G G G G A C G G G G A C A A G A A A A G G G$ G G A G G A A C G A G G G G GACAGGAGAGAAAAAAAG
$11015000-9$ A A G G G GACGGAGAGAGAAGGGGGAAAAAGGGGCA AAAGAAGCCCCCAAGGGGGGCAGGAAGGGAGGCCAAAAGGAA C C A A A A G G G G A A A A G G A A C C G G G G G A A GACA $A$ A A G C C G G G G A A GCCAAGGAAAGAGAAGAAGAGGGGGCCGGAGAAGGGAGGAA C A A A G A A A G GAAGGCCAGAGCCGGGGAAAAAAAAGGAAGAAA C CAAACGGACAAGGGAAAGGGGGAAAGGAGAGACGGCCBAAA G G G G G A G G G G G G G G G G G G G G G A G A A GAGGCAATTGGAA G GAA

 CAGAGGAACCGAAAAAAAGAGGGAGGGGCCGGGCAGAAAAGA GAGGAACCAAAACCCCGGGGAAGGAAAAAGCAAAAGTTGGAA AAGGAGGGAAAACCAAGGAAAAAACCTTCCAGAGCCGGGGCA AAAACCAAAAGGAAAACCAAAAGAAAAGAGAAGACCAGAA GA $G G A A G G A A A G A A G G G G A A A A A G A G A A G G A G G G A A A A C C A A A A$ G G G G A A A A C C G G C C G G A A G G G G G G C C A A G G A A A A G G G G G G G G A A A A G G G G A A G G C C A A A A G G G G A A A A C C G GAA $A$ G A A A A G G G G AA G GAAAAGGGGAAGGAAAAAACCAAGGAAAAAAGGAACCGG AA $A G G G G G C C A A G G C C G G A A A A G G A A G G G G G G A A A A A A G A A A$ A A A A A A A A G G A A G G G G C C A A G G G G G G G G C C G G T T G G G G A A A A G GAAAAAAGGGGAAAAAAAAGGAAAAAAGGCCAAAA GGGGGG C CAAAAGGAAAACCAAAAGGAAGGGGCCGGGGAAGGGGCCAG
 G GCAGGAAAAGGGGCGAAAAGGGGAAGGAAGAAGGGAAAACC A A G G A A A A A A G G G GCCAAGAGGAAACGAGATAACAGAACGAA C C A A A A A A A GAGAA $A \operatorname{AGGGGGAAAAGGAAGGGAGGGAAAGAAC}$ A A A G T A A G A TCCGAGGAGAGCACAAAAAGAAAGAACGA GAA G A A A G G A G G A A GACCGGGAAAGGAACCGGAAGAACGAAGAAAA G GAA A G G G G GCCGGAAAAAACCGGCCAAAAGGAAAAGGGGGG AAGGGGGGAAAGAGAACCGGCCCCAAAAAAAAAAAGAAGGAA AACCCCAAAAAAAAGGAAAGAAGGGACCGAGAACAAAGGGAG CAAAAAAGTAGACCGAGGGGAAGGGAAAAGAAAGAGAGGGCA A G G G G A A A A GCC CA A A GAA A GAGGAGAGAAAAGGCAAA GGGG A A A A G A A A A A G A G G G G A A TACCGGAGGGCCGAAGGAAA GAAA AGGAAAAGAGTAAGAGCCAGAGAGCATTGGCAAAGGAAAAAA A A G G G GAAAAA A $A$ A A GAGGAGAAGGAAGAGGTAGGGGGGAAGA
 AACCGGACGGACGAAGCCAAGGAACCAAAAGGCCAGCCAAAA GAACCCGGAAGAAAGGAGGAAGGACAAGAAAGGGGGAACAAAG $G G G G G G A T A A G G G G G G G G G A G G A A G G G A G A G G A A A A C C A A G G$

A A TAAA A GAA $A \operatorname{A} G \mathrm{G}$ GAGAGAAGGAAGGAGCAGGGGGAGGGGGG G G G G G G A A G G A A G A A A G G A A A A A A G G GAC C G G GC G G A A G A G G G G A A G G G G G G G G G G A A C C G G G G G G A A G G G A A A A A G G GAC CAC G GAA A GAG G GCCGGGGCCGAAAAAAGGGAGGGGGTAGGGGCA A GCCAAAAAAGGAACCAAGGGGAGGGCCAAGGGGAGAGAAAA AACCAAGGGGAAGAGAAAGAGACCAAAGGGACCCGAGAAAGA AAAAAGAACAGGAAGGCCGGGGGACCAAAAGGGGCCAGAAGA G G GAGGGGGGAGGAGAGGAGTAAAACGGAGAAAAGACAAGGG A GAGAGGGGGGGGAAGAGAAAAGAGGACGACCGAACAACCAAA AAGGAAAAGGCCAAAAAAAGAGGAGGGACAAAAAAAAAAGGA
 G G A A A A G G A A C CA $A \operatorname{GAA} A A A C C G G A G G G A A G G C C G G G G A G G G$ GGCAGGCCAAGGAAGAAGAAAAAAAAGACAAGGGGGAAGGAA G G G G A A A A A A A A A A GACCAGAGGGCCACAAGGAGCCAAGGGG AAGGGGGAGAACGGCCAAGAAAACAACAGAGGGACCAAAAGG GAGGGGGGAAAAGGGAGACAAAGGGGGAGGGAGAAGGGACGG G GAACAAAAACCCAAGGACAGGAACCACAGCCGGGGGGGGGG A A A A A A A A A A A A A G CAGGGGACAGAAGGGAAAAAA G GAAGGGG AAAAGGCCCACCACGGCCAGAGGAAAGGAAAGAAAAAGAAAG C G G G A A G G A A G GAAAACCGGGGAACAGGGGAAAAGGCCAAAA AGCAACGGAAAACAGAGGGGGGAAGGGGGGGGACAGGGACGG GAGGAAAGGGCAAAGGAAGGGGCCAAGGAAGAGACCCAAGAG C CAA $\operatorname{C} G A A G G A A G A C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ A A G A G A G G G G A G G A G G G G A T G G T T A A G G G A GAGAGACACAA A AAA A A G GAGAA GCAGAGAAAAGAAGAACGAAGGACAGAAGEG A A G GCAAGGAGGAAAGGGCCAAAGAGAGAGCCAGGGAGCAGG AAAAAGAATTAAAAAGCAAAAGGGGGGGAGAGAAAGAGGAGG GAGGGGGGCCGAACAAAAGAGAAGAGACAGGGAAAAGGAAAA G GCCAAGAGGAAAAAAAAAACAGAGAGGGAGAGGAAGBACAA $G G A A A A G G G G G G A A G G A A G G G G A A A G C A C C G A G G G A G G G G G G$ C C A A A A G G A A A GAGCAGAGACCAAAAAAAAGGAGACAGAGAA A G G G GAAAAAAAAAAAAAAAAACCGGAAGGGGGGGGAAGAAA G G A A G G G G A A A A A A G G G G G G C C G G G G A A G G G G G G C C C C A A G G G GAA A G G G G G A A G G A A G G A A G G G G C C G A A A A A G A G G G A A A G G
 A A T T G G G G A A G G G G C C G A A A A A $\mathcal{A} A G G G G G A A G G G A G A B A G A G$
 A G G GAGAGGAAGAAGAGAGGGGAAAAAAACGGGGAAAGAAAA G G G G G G A A G G G G C C G G G G G A G G G A C A G G A A A C A A C C A A A G G G
 $G G G G C C A G G G A A A A A A G G A G G A G G G A A G A G G A A G G A G G G G G G$
 GAGGGAGGAGAAGAAGGAGAAGGAAAGAAGAAGGAAGGAGAA G G G GAGGGAAAGGGGAGAAAAAAAAAGAGGGGGGGAAAGAAA G G G G C A G G A G G A G G A A C C C A G G G A G G GAGGGGGGAAA GA G T T A A A A A A GAGGATGAGGCCGGAAAAGGAAGGAAGAAAA GAGAG G G GAGGAAAAGGAAGACAGGACAAAAAAAGGGAAGGAAAAAA T TAAAAACGGGGAATTGGAAAGACGGGGGACGGGCCAGAAAA G GAAAAAAGGAAGGAACCAGAAAAAGAAGAAAAAGGAAGACC AACCGGGAAAGAGGAAAAAGAAAGAAGGAAGGATGGGGAGAA AA GAAAGAGGGGAGGAAAAGAAAAGAAGAAGGAAAAGAGACC AACCGGCCAAGGGGGGGACAGAAAGGCCAGCCAGAAAAAAGG A A G G A G G A A G A G G A A G T T C C A A G G A A A A G A A A G G A A A A A A A A G GAAAAAAAAAAGGAGACACAAGGAGACAGGATACAAGAGAG GAACGGGGGGGGGGAGGGGGAAAAGGGGGGAGGGCCGAAGAA A GAGAAGAGAGACAAGACGAGGGAAAGGAGAGAAAAAAAGCC CAACAAGGAGGGACCCGGAGGACACACAGAAGGGAAGAAGGA A A C C A A G G A G G G A A G G T T C C GA GAA A A CAC CAA ACAA GAC G G A G G GAAACGAACGGGAAGAAAGGAAGCACAAGGAAGAGCGAG

AAAAAGAAGGAACCGGAAGGAAGGGAGAAAAAGGGGGGAAAA G GAA $A \operatorname{GA} \mathrm{G} C A C A A A G A A G A A C C A G A A A G A G A G G G G G A A A A C A$ $G G C C G A G G A A A G A G A G A G A A A G G G A T G A A G G G C A G G G A A A A A$ A GAAAGGACAGAAAAAAAGGAAAAGGAAGAAAAAAACAAAAA $C \subset C C G G A A G G G G A C A G A G G G G A C C G G G A G G G G A G G G A G G A A A$ G G G GAA $A \operatorname{GAA} G G A A A A G G A A G A A G C C G G C C G A G A A G A A A A C A$ G G TAA A A A G G G GAA $A \operatorname{AAGGGAAAACAGCAGAACGGGGGAAGAG}$ GAACAAGGAAGGGGAAGGAGGGGAGGCCGGGGAAGAAAGGAG A A G G G G G G A GCAGAAGAAGGCCAGACGGACAGAGGAGGAGAA AAGGGAAGGGCCGGACAGCCAAGAAAGACCAAAAAAGGGACC ACGGAAGGCAGGAAGGGGAAACAGAGGGCAAAGGGGGGGGGG A GAAAGGGAGAGGGCAACGGGGGAAAAGAAAAGAAGCAAAAA
 AACCAAAAGGAACCAAGGGGCACACCCCCCAAAAGACCGGGG A ACCAAGGGGGAAAAAGGAGGGCGAGAGCCAGAGAGGGGACC C CA GAAAAAACCAAAAGGAAAAAAAAGGAAAC GAAAGGAGAA
 A A G G G G G G A A G G A A G G G GCACAAGAGGAAGGAAGGGGCAAGG $A G A A A C A G G G C C A G G G G G G G A A A A G G A A G G G G G G A G G G A A G G$ GGCCCAAAAAAAAAAAAAAGAAACGGAGAAAAAAGGA
A A A A A G G GAGAGGGAGAAACAAAAAGAGGCGGAAGAAAAGG C CAA A G GAGGCCAGGGGGAAAAGGGGGAAGACCAACCAAGCAA
 A A G G A A G G G GCCGGGACAGAAAGGACAAAAGGAAAACCGGGG
 A GAGGGAAAAAGCAGGAAGGAAGGAGAAAAGGCCGGCAAAGG $C \subset A A A A G G G A G G G G G A G G A G A A A A A G A G A G C G A G G G A A G G G G$ C GCCGAGGGGAACCATCAGAATAGAAATAAGAGGGAAACAGG $A A G G G G A G A A G G A A A A G G G G A A G G G A C A A G A A G G C C G G G G G G$ GAAAGGGGAGGGGGCCAGGAGGAAAAGGAAGGAGGAACAAAG
 AAGAAAAAGAAGAGGGAACAGGCCGAAAAGAGGAAAAGACAG $A A C C A A A G G G G G G A G A A A G G A G G G G A C A G A G G G G A G G A A A A G$ A A A A G A A G A G A A G GACAGCCGGAGAAAGAGCCAGAGGAGGAA A G G A G GAA A G A G G G C C G A A GAGAGGGAAAGGAAA GAGAAGAA
 A A A GAAAA $A$ A A A A G GAGAGAGGAAAGAAAAGGGGGAAA G GAAA AAAAAAGGCAGGGAAGAGCCGGAACCGAAGAAAAAAAACAAA A ACCCCAAAAAAGACAAAAAGGGAGGGGAGAGAGGGGBAGAAA G GAGGGGGAGCCGGGGGGGAAGAGGGACAGAAAAGAAGAAAA GAGGAAAAGAGGGGAAAAAAGGGACAAGAAAAAGGAAAAGAG GAGGAAAGAAGAAAAAGGCGGCAAGGAAGAGGGGAAAAAGAG AAAGAGGGGAAAAAAAGGAGAGAAAGAACAAGGGGAAACCGG G G A A A C A G A G A T A A G G A A G G G A G A G G G G G G C A A G G G G G A A G G A A A A A A G GCGACGACCAAGGGACCCACAAGAACCCCAAACBG A A A G A GA $\operatorname{A} G A A G G G G G A G A A G G C A A A G A A A G G G G G A A G A A A G$ A A G G G A C C G G G G A A A G G G A G A G A G G G G G A A A G A C G G A G G G G A G G GAAAAGAAAGAAATGGGGAAAAAGAAAAGGGGAGAAGGAC AAAACCAAAAGGGACAAACCAAGGGAGGAGGGAAGGAGAGAG A CAA $A \operatorname{GAA} A G C A A A A G G G A A G G G A A G A A A G G A A A G G A A G A A A A$ A GAA A GCCAAGGCCCCGGGGAAGGAAAAAGGAAAGAGGCACC A A A A A A A G A GCAGAGAGGGGGGAGGGAAGGGGAAAAAAGGCC C C A G G G A A GAGGAGAAGGGGAGGGGGCCAGAAAAAAAAGGAG AAGGGGCAACATGGCCCCGGGGCCAACCGGCCGGGGAAAAAA A A G G A A A A G G A A G G A A G G G G G G G G A A A A G G G G C C G G C C G G G G C CAACCGGAAGGGGGGAAAAGGGGGGACAGGAAAAACAAGAG $A G C G G G G G G G G G G G A A T T G A G G G A A G A G G A A G G A A A C A A A A A$ A A A A G GAAGGAAAAAAGAGGACGCGCAGAAAGGACAAGAAAG AAGGAGGAATAGGGGACCGGAAAGCCACAAGGGGCCGGAAGA

A GAAAACACAAGGGGAAAAGAAAAAAGATAGAAAAAAGGCGA ACGGAGCCAACCAAAAAACCAAGGAACCGGGGGGGGAAAAAA A A G GAAGGAAAACCGAAAAAGGGGAACCCCAAACCCCCAGCA G GAAAA AAGGTTAAGGAGACGGAAGAAGGAGAAACAGGGGAA A A GAAA A A A G GAAGAGATAGAAAAAGCCAAGGGGAAAAGAAA
 CAGAAA $A$ A A $A G G G G A A G A A A C C A G A A G G C G A A A A A A G A G G G G$ AAAGAAAAAAAAAAAGGAAAAAAAGGGGGGAAAAGAGAAAGA
 C CAGAAGGAACCACGGAGGAGGAAAACAAAGGAGCCGAGGAG G G G GATGGACGGAGGGAGAAGGAAAAAACGGGAAAAAAAACC AAAACCACGGCAGGGGCCGGAAGGCCGGAAGGGGGGAAAAGG
 A A A C G GAGGGAGCCAAGGAGGAAAAGACGAGGACAAGA GAAA G GAACCAAGGGGCCGGGGGGAGAAAGAGAGAAGGAAAAAGGG ACGGAAGGGGGGAAAAGGAAGGAAAAGAAGAACAGAAAAGAG
 G G G G G G A A G G G GAA $A \operatorname{GCC} C A A G G C C A A G A A A G G G G G G C C G G A A$ $G G A C G G G A A G A A A A G G A A A A A G A G T T A A A G A C G A G A G A G A A A$ A G C C A A A G A A C C A A A A C C G A G G G G G G C C G A G G A C T T A C A G G G A GAGAAAAAACGCCAGAGAAAAGGAAAGAAAAGGAAAGAGAT G GAGCAAGAACCGGCACCGGAAGACCAAGAAGAAGGGAAAGG A GACATGGGAAGGACCAGAGAAGGGGGGAAGAAGAGAGGGCC A A G G G G G G A A G A A A A A A A G G GACAAAC GAAGGAGGGGAAAGAC CAACGAGGGGAGGGGGGGCAAGGGGGGAAGGAGGAGGGAGAA GAACGAGGCCAAACAGGAGGAAGAGGAAGACCGGAAGAAGAA AA $A G A A A A A G C C G G A G G A A G G G A A A G A A G A A G G A C C G B A G A A$ A A C G A GAA $A \operatorname{GGG} G A A A G A A G G G G A A G G C C A A A G A G A G A A A A A C$ G G G G G A G A A A C C C A T TC C G G G G A A G G A T C ACCCCAAAG GAC C AAGAAGGGAGGGAAAAAGAACAAAGGAAGGGGAAAAAAGGAA G GAA $A \operatorname{A} A A C C A G C A C C A G G G A A A A A G A A G G G G A G C A A G G G G G$ G GAGGGAAAGAAGGAAAGAAAGGAAAAGGGAGAAGAGAAAAG A A A A G G G G G G A G G G G G G G G A A G A G A GAGAA $A \operatorname{A} G A A A A A A G G G G$
 $G G A A A T G G A G G G A A G G A A A A A A G A G A A G A C A A A A G G G G C C A A$
 G G G GAAAAGGAACCGGAACCGGGGCCGGAACCGGAAAAGGAG G GAAGAAA $A$ A $A \operatorname{A} G A A A A G G A A A A C C G A A A A A A C G A A G A G G G G G$ A GAACCGGAAAAAAAGGGCAAAGAAAGAAGAGGGGGAACCCG G G G G G G G A A A G G G A C C A A G G G G G G G G A G A A A A G A A G GAAA $A$ A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAGGGAGGAACCGAGGGGCACAAGTTACAG C CAACCGAGAAGGAAAAGAAAAAGGGAAAAAAAAACGGGGGG G GAAAGAGGGAGAAAAGGAATAGAGGCCAAGGAAAAAATXAA $C \subset A G C C G G G G A A A A A A G G A A G G A A A A G G A A A A G G A A G A G G A A$ A GCCAAGGGAGGGGGGCCCCAAAAGGCCAAGGGGAACCAGAA G GAACCGGAAGGAAAAAAGGGGAAAAGGAAGGGGAAAGGGGG G G G G G G G G G G G G A A A A A A A A G GAAACCGGAAAA G G G G C C G G T T G G G G G G A A G G G GAACCAACCAAAAAAAAAACCCCAAAATTTT AAAAAAGGCCGGCCGGGGAAGGAAAAAAGGGGAAGGGGGGGG AAAAAAGGGGAAGGAAAACCGGCCGGAAGGAAAAAAGGAGAA G G G GAAAACAGGCAGACCGACGAGAAGAAAGAGGGGAAGGAA

 G G GAAAAAGGAACCAAGAAGGGGGAAAAAAAGGGAAGGGGAA A G GAA GAAACAGAAAAAAAAGACCCCACGAAATTGGGAGGAA GAAGCAGAAGCCAGAGAACCGGGGGGAAGGGGCCGGGGAGAA AACCCAGGAAGGGGAGAAAGCCAAGGAAAAAGGGAAGGCCAA GAAGGGCCAAAAAAAACCGACACCAGGGACAGCCAAGACAAA $A G C C G G G G G G G A A A C C G G A A C C G G G G G G G G G G G G A A G A A A A G$

G GAAGGGGGACGAGCCAGGAAACCAGAAAACCAGCCGGAAAA
 CAAAGAAGACAGAAGGGGAAAGGGGGAAAGCCGGGGGGAAAA AAAGCCAAAAGAGGACAAAGCCAGGACGAGAGAGAGAAAGAA A G G GAAAGGCAGAGAGAAAGAAGAGGCCAAAAGGGGCC GAAA GAGGAAAATTAAAAAACCGGAAAATAGGGAAGCAAAAAGGAA A A A A A A ACCAGACAAAAGGAAGGAAAGGAACCCCGAAGAAAA GGACAAAGGACAACAGAAGGCCGGAAAAAAGGCCAAAAGGCC G G A A A A A A G GCCGGCCAAAAGGCCGGAAGGAGAAGAGGAGAA G G G GAAGGCATAAGAGGAAAAAAAAAAACCAAGGAAGGCCGG G GCCGGAGGGAGAGGAAGCCGGAGAAGGAACCAAACAAAC GA GAAAGAGAAAGGGGCCGGCAAACAGGAAGGGGGATTGAAAAA CCCCGGCCAGGAGAGGACCAGGGGAAAAAAGAAAAAAAGGAA A A A A A TAA A A A A A GAAAA $A \operatorname{A} A G G G A G A G G G G A A G G C C G B A A B A$ A G G G G GAGGGCCGGGAAAGGCCGGTAGGGAGGCCAAAAGAAA ACGGGAGAAGGGGGGGAGGGGAGGCCAGAGAAGGAAAAAAGA AAAAGGGAATCAAAGAAAAAAGAGGGAAAACCAABAAACCBG AA G G A A A A A A G G G G G GCCCCAAGATAGAAAACAAA GGGGACAG $A G G A G A G G G G C G G C A G G A G G A G G G G G G A A A A G G A A C A A G A A T$ GAGAGGAAAAAGGGAAAAGAAGAGAAAGAAAAAGGAG
AAAGGGAAAGCGGAGGAAAAGAGGGGGGGAAAAAAAACAAA G GCCAAAACCAAACAAGGGGAAGGAGAACCCAGGGGGGGGGG G GAAGGGAAAACGGAGGAGGAGAAGGAAAATTGGAAAAAAGG GGACCAGGAAAAAAAGCCAAAAACAAAAAACCGGGAAATTGG AGCGAAGGCAAAGACCAACAACAAGGGGAAGGAAGACCAATT A A A A A A A A A A A A A A G GA GAAAAAAAAAA G GA GA G G G G G C C G G
 G GCCCAAGGGGGGAAACCGGGGCCAAAAGGGGAAGGGAAGAA A A A A G GAAAAGGAAGGAAGGGGGGAAGGAGAGTTAAGAAAAG A G G GC G A A G G A A A GAAAAGGACAAGGGGAGGGAAGGAAAGAA G G G G GCGGCAA $\mathcal{C} A A A G G G G G C C A A G G G G G G G A G G A G G A A G A G$ GACGGAAAGGGGAAAAGGAGAAAAAACCAAGGAAAGAGCAGG GAGGAGCCGGGGCCAAGGAAAAGGGGAAGGGAAAAAAAAGAG G GAAAGAACAAGGGCCAGGGCAAGGGAAGGGGGGAAAACCCC A A A A A A A A G G G G A C A A A GTTGGAGAGGATAGGTTACAACCGG $G G G G A A G G C C G G A A G G G G A A G G A G G G G G A A A A A A G A G G A G A C$ G G GAA A G GAAGAGAAGGAGAGAAGAGACAAAAGATTAGAGAA GAGGGAAGAAGGAAAAAAAGAAGGGGGGGGGGCCTTAAGGAG G GAGGGAAGGAAAAACAGGGCGCCGGAACCGGGAAAGAAAAA AAAAGGCCAAAACCAAGGGAAAGGAAATACAAGGAAGAAACC $G G A G G G G A C C G G G A G G G G C C A A A G A A G G G G C A A A G A A A G A A C$ T T G A A G GAA A A GAGAGGGAGAGGGAAGGGAACAAGAGGAAGG G GCCACGAAAGGGGAAAAGGGGAAAAGGAACAGGGACAAAGA $A \subset C A G G G G A A A G G G A A C C G A G G G A G G G G G G G G A A A A A G G G G G$ GAAAGAAGGGGAAGAACCGAGGAAAAGGAGAGAAGGCAAGGG A A G G G GACAGACGAACGGGAGGGGACAGGGAGGGCACAAAGB C CAAAAGCAAAAGGAAGAGGAAAAGAGGAAAACCGGGGGGGA
 G G G GAA $A \operatorname{GCCA} A G C G G G G G G G G A G G A A C G A A A G G G A G G G G G G$ A A A GAAA A A GAACAGGAAGAAAAGAGAGAAGAACCCCCGGGA CA $A$ A A A G G G G A A A A G G G GAAGGAAGGGGGGAAGGAACAAAAA
 G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGBAAAAAA AAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGGCC A A G G G GAA A G G GAAAAAAGGAGGGAAGGAAGGAAAAGAAAAA C CAAAAAAAAAAGGCCGAAAAAAGGCCGGGAAAAAAAAGB
 A A GAGAGGCCAGAGCGGAGGGGAGGGAGCCAGGAAGAGAAGB $G G A G A G G G G G G A A G G G G G A A G G G G A A G A A A A A G G G A A A C A A A$

A A G GAAAGAAGGCCAAACACAAGAGAGGAAGGCCAAAAACAA A GAA $A \operatorname{ACC} C G A A A G A G G A A A A G C C G G G A A G C C A G G A G G G G G G$ C C G G G G G GAGGGAAAAGGTTGGAAGAAGGAAAAGACAA GAAA A A A G G GCCCCGGAAGAGGGAAGGGAGAAGGAACCAAAAAAGG A A G G G G G G GAGAGGGAGGAGAAAGGGGGCCAAA GGGAAAAA G
 G G G G G G A G G G A GCCAGAAAGGGGGAAGGCCGGTTGGAACAAA AAGAGAAGGAAAGGGGAGGAAGAAGAGGGAGACAAAGAAAAG G G A A G G A A A A A A A A A G G A G G G G A A A G A G G G G G G G C C A G C C C C GAGAAAGGAAGAAGCAAGAGAGGAAAAAAAGGAGAGGACCAA A A A A A A A A G G A A A A A A A A A A G GAAAAAACCAAAAAA AAAAA G GAA $A \operatorname{A} A G G G G G G G G G G G G G G G G G G G G G G C A G G G G G G G G C C A A$ AACCGAGGGAGGCAAAGGAAAAGGAACCGAAGCCAAAAAAGG A A G G G GAAAAAAAAGGAAGAAAGGGGGAGGGGGAGAGAAA G G $A$ G GAACCGGCCGGAGACGGACGGGGGGAAGGGGGAGAGAAGAA A GAGAACCAAAGGGAAGAAACCAAAAGGGGAGGACAAGAGAC A A A A GAGAAAGAAGAAAGAAGGACCCGGGAGAGGGGAAAACA A G G GCCAA $C$ G $\operatorname{CAAAAAAAAGGGGAAGAAAAGGAAAGGGGGAAAA}$ $G G G G A A G A G G G G A G A A A A A A G G A A A G C A A G G A A A G G A G A G A C$ G G G GA GCC G GAAA $A \operatorname{CA} A C C G A A A G G G A A C G G G A A A A G G G G A A A$ G GAGGACAGAACCCGGAAGGAGAGGAAAGACCTTAAGGCCAA G G G G G GCC C A A GAA A A GAA $A \operatorname{A} G A G G A A G G G G A A G A A G A G A A G G$ GAAAGGAGGAAGAACAAGAGAAGGGGGGAGGGGGAAGGAGGG AATAGGGGAGAAAACCAAAGGGAACCGAGAAAACAGAGAAGA AAAAAACAGGTAGAGAAGAGGAAAAAAAAAGGAAGGAAGAAA
 G GAGATAGGAGAGAGGGAAAAGGGGGAATTAACCAACCCCAC A A GAA A A A G G G G G GAAAAAAAAGGGGAAGGAAGGCCCCAAAA C CAGAAGGGGAAGGAAGAAGAGAAAGAGAGAGAGAGAAAAGG AAAAAAAACCGGGGCCAGAAAACCGAAAAGACCCGCGACCAG G GAAA $A \operatorname{A} G A C A G A G G G G A C A A A A G A G G A A A G A A A A G G A A G A A A$ $A G C C G G A A A G G G G G G G G G G G G A A A G G C A G A G A A G A A A A A G G A$

 G G G GAAAAGGGGCCAAAAGAAAGAGAAAAAGGAAAAGGAGAA GAGAAAAGGGAGAGAGGGAAAGAAAGGAAAGAAGACGAGGGA G G GAAAAGGAAAGGGGGGGGGGAAGGGGGGGAAAAGAGAAAA AA $A G G A A G G C A G A A G G A A G A A A A A A G A A G A G A A G G A C A A G G G$ A A G G G G G G G G G G A G G G G G G G G G A T G A G G A A $\mathcal{A} A A G G G G G G G G G$ A ACCAAAAGGAAGCAGGGACGGCCGAAGAGAGGGGGAAGA GA A G G GCCAACCCCAGAAGGCGCAGGGAAAAACACCAAGGGGGG A A A A T T G G A A G G A A G G A G G A A G A G G G A A G G G G G G A C A A A A G G A GCAAGAGGGAGGAGGGGGGAGAGAGGAAAAGACGGGGAACA A GCAA C G G G G G A A G G A G G A A G G A A G G G G A G G A A C G G A A G G A A A A G G A G G G G G G G G G G G A G A G A T A A G G G A A A C C A A GACA G G G G A A A G G G A A A GAAAACCAAAAGGAAAAGGAAAGAAGGAACCTT AAATGGAAGGAAAACAGGGAGAAAAAGGAGAGGGAGAGAAAA A A G G A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A C A A A G A G G A A A G G G C C A G A A C C G G G G T T$ AAAGGGAAAACCAAAACCGGGGAGGAGAAAAGAAAAGGGGCC A A A A A A A A A GAGAAGGCCCCAACCAAAAGGAAAGAAAGGGGA GACAAGAACGGAGGAACCGGGGGATTGACCAAAACGGACCAG GAGAAGGGAGCAGGAGCAAGGAAGCCGGGGGGGACAAAAGCC G G G G A G A G C A G G A A A A $\mathcal{A} G G G G G G G A A G G A A A A T T G G G G G A A A$ G GAAAAAAGGGGAAAAGGAAAAGGAAAAGGGGCCCCAACAAA A A G G G GAAA A A G G GAAAGGAGAGAAATAGGAACCGGGAGAGC C C G A C CAA G GAAAAAAAAAAGGAAAACCGGAGAAAAAAAGCC $A G C C G G A A A A A C G G G G G G A A A A G G A A A A G A G G G G A A A A G G A G$ AAGGGAGAGGAAGGAGAGGAACAGGGGAGACAGGAAAAACGG $A A G G A A G G G A G G C C A G A A G G A A G G T T A A A A G G G G C C A G A G A G$

CAGGAGAAAAAAAAGGCCAGGGAAGGGGAAAGCGGGAAAACC C C CA $\operatorname{C} C A G A A G G G G C G A G A A G G A A A A A A C C A A A A G A G A G A A G$ A GAG $A \operatorname{GGG} \operatorname{G} A A A A G A A A G G C C G G G G A A C C G G G G G G A A G G A G G G$ GACCGCCAGGGGAAGAGGAACAAGAAGAGGAGGGGGAAAGAG AAAGGAGAAAAAGGAGGGGGGGGGGAGGAACCAAGGCAGGGG ACGACAAGCCGGGAAGAAGAGACCAAGGAAAAAAAAGAGGAG T T G G G A A A A A A A A A C CAATAAC GAGAGGAAAAAACCGGGGGA C C G A A G A G A A G GAA $A$ AAATCCCCGAAGGGGGGGAAAGGGAGGA A A A A C A C A C C G A C C G GAGGACCAAGGGAGGAAGGGGGGAAAA $C \subset A C A A G A A A G G C A G A A T A G G G G G G G G G A A A A G G G A G G A G A A$ GAAA A A A A C C G A GAAAGGGGGGGAGAAAGGGGGGGAGAAGAA
 C CAA $A \operatorname{GA} \mathrm{~A} G \mathrm{~A} A \mathrm{~A} C A A A G A T A G A A A A G A A G A G G G A A G A G C A A A$
 GAAA $A \operatorname{A} A A G G G G G G A A A A G G G A C C A A A A G G G A G A G G A C G G A G$
 GAAAAAGAGAAGAACCCCGAAACCCAAGAGGAGGAGGGGGAG CAGGGGGGAAGAGAAAAGAAGAGAACGGCAAGCGBAGGGGAG G GAACCAAAAGGGGCCAGGCCAAAACCGGCCCCAAAAAAAG GAAGGGAACCGGATACGGACGAAGAGAGGAGGAAAGA
A GAA $A \operatorname{GG} A A A A A A C C G G A G G G A G G A G G A G A A A G G G A G C A G G$ GAAGGAGAAGAACGGGGAGAAGAAAAGGGAGGGGAAGAAAAG GAAAAGAAGGGGAACAGAGAGAAGAGGGAAACBAGGGGGGGG G GCAGGAAAAGGCCGGAGGGAGCCCAGGAAGAGGAACAAAAC AA G G A A T T GAAAGAAGAGGGGAGAAAGGACAGAGAGAAAGGA
 AAATAGAAAGAAAAAAAAAGAGAAGGAGGGGGACAAAACCBG AAGGCCGAGGGACAGGAGAACAAGGAAGACCCAAGGGAAAAA A A A A A A G A A G G A G A G G A GAGAAGGGGGGAAAGAGGGGCAGAA $G G C A G G A A G G G A G G G G G A G G G G A A G G A A A A A C A C A G A A G G G A$
 G GAAGGAAAAGAAAGGAAAGGAGAGGAAGGGAAAGGACAGAG A A A A GACCGGAAAACAAGAAGGAAAGAGGGAAGGACGGGGGG
 A ACCCCGGGGGGATGGAAAGGGCAAGAGGAAGAGGGGGGGCC G G G G G G C A G G G G G G G G A A A G C C A G GAAAC A A A A GAA A A A G A G A AAAAAGAAGGAAGGCCGGAAAAAGAGAGAGAGAAAGAAAAAG GGCCACAGGAAAGGAAGGGAAAGGCCCAGGGGACGGAAAGGG A A G G G G A A A A G A A G A G G G G A G G A C A G G G G GCC G G A G G A A A G G C C G G G G G G GAAC $A \operatorname{CA} A A T T A A A A G G G G G G C C G G A A G G A A G G G G$ A GAGGAAACCCCGGGGGGGGGGGGAGGGGGAAGGCAAAGGGG C C C C G GAA $A \operatorname{ACC} G G G A A G G G A C G G A G A A A A A G G G G A G A C C C C$ AGGGAGAGACAACCAACAAAGGGGAACCAGAGAGAGGGGGGG CACAC G G G A A A A G G G G G G A A A G G G G A G G C CAA A A A GACCC G G GAAGAAGGCCCCGGAAGGAAAAGAGGAGAAGGAAGGAGAGAA G G G G C A A GCC G G A GAGGGAAACAACCGGCCAAGGGGGAACA G G G G GAGGAACGGAAGGACGGGGGGGGAAACGGGGCCGGAAAA G GAGAAAGGGGGACGGGAGGAACCGGGGGGGGAGGAGGGGGG AA $\operatorname{A} G \mathrm{G}$ GAAGGAAGGAAAAAAAAAAAGAGAAAGCAAGAAAGGG G G G A G A A C A G G A A A C CAAAAGAAACCGGAAAAGAAGGGAGAG $C \subset G A G A A G G G G A C C A A G G A A G G G G A A A A A A A G A G G G G G A G A G$ G GAAGGGGTTAGAAACAAGAGGGACCAAAAGGGGCCGGAAAAG G G A A A G G G G G A A G G C A C A A A A G A G G G A A G G G G T A A A G G G G A G A GAGGGAAGGGGAAGGACGGCAGGGGAGAAGGAAACCCAGGG

 G G A A A A G G A G G A G G G G C C G G G G G G A A A G A G G G A A G G C C G A G C G G G G A A A A GAGAAGGGGGCCAAGGCCGAAAAAAGAGAACAAA A A A A G G G G G G G GAAAGAGAAAACCAAAAGGGGAAAAAAAAT T
$C C A G A G A A G G G G G A A A A A A A A A G G G G A A C G G A A A C C G G G G G G$ G G G GCCCCAAAAACAAAAGGGAAACCAACAGGAAAAGGTTCC A A A A A A G G A A A A G A GAACGGAGAAAACGCCCCAAGCAAGGAC GAGAGGCCAAAGGGAGGGGGAGGGAGCCGGAAAAAAGGAGGG CCAGCACAGAGGAAGAAAGAAGGGCCAAAGGGAGGAGAAGAA A A A A A A A ACAGAC GGGAAAAAAGGAAGACCAGAAAAGGGGGG AAAGCAGACCGAAACCAAGAACAACAGAGGGAGGGGGAAAGG GGAAGGCCCCAAAAGGAAAAGAGAAACAAGGGAGAGAGAACA G GCCGGCAAAGGAAGAGAAAGGACGGGGAAAAAAAAAAAACA AAGGAAAGGACGGGCACCAGAAGGGGAGAGGAGGGGCCAGAG C CAAA G GAGACCCCAAACCGGAAAGAAAGAAACCAAGGAGAA A A A A A A C A G G G A A G G GCCCCCAAAGAGGGGGGGGAAAA GAA G
 A A G G G A A G A G G G A A T T A A A A CAA GAAAACCAGGGCCACAAAA A A G G A A G G A A G A G G G G A A A GAGCGGGGGCATAAAAAAACC G A A
 G GAGAGGGAGGGGAGGGGGGAAAACCGGGGACAAAAAAGABA C C GAGGCCCCGGAGAACCAAGGGGGGGAGGGGAGGGGAAGGG
 G GAA $A \operatorname{GCA} A A G G G G C C A A G G A G G A T A A A C C A G C A C A G A A A G G$ AAGAAGCGCAGGGACACACCAAGAAAAGGGAAAAAAAACCCC C C GACAAAGGAAAAGGAAAGGGAAAAGGAGGGAAGACCAGAA A A G G A A G G G A G A C C G G A A A A A A G G A A G G C C G G A A G G A A A A G G A A G G A C G G GACCAGGGGAAACCGGGGGGGCGGAAAACAAAAA A A A A G A A A G G A G A GAAAGGAGAGGAAAGGGAAAGATCAAAAA G G G GCCAACCAGGAAGAAAGGAGGAGAAGAAGAGGAAAAGCC G GAAAAGGAAAAAAGGCACCGGACGGAGGATTAAAAAAGGAC A GAA $A \operatorname{GAAACCCAGGGGACGATAAGAAAAACAAAAGGCCAGAG}$ A A A A A A C CA $\operatorname{A} G A A A A G G G A A C A A A G G G G C C G G G G G G G G C C G G$
 A G A G A A A A A C A A A A A CAAACAAAACCGGACAAGBAAGGGGGG G G G GAA G GAACCACGAAGAAGGAGGACAAAAAGAGAGAGGGG G GAATTAAAAAAAAGGAAAACCGGGGGAAAAAACACGBAACAA A A A A G A A C A G G G G G GAGAGGAGACGGGGAACAAGAAACAAAG A A G GAGGGAAGGGGCCAAAAGAGGAAAAGGGGAAAAGGAGAA A ACCAGAGAAAAGAAAGGCAGGAAGACAACGGGGAAGGCCBA AAAGCCAAACAGGAGGAAAGGGAAAAAAGGAACCGGAATTGG1 AAAAGGGGGGAGAAGGGAGAGAAGCAAAGGGAGAGAAAACBG A G A G A A T T A G A G G A G G G GCCAACCCCGGAGACGGAAA G TA G G
 G G G G GAACAAAGGAGAAAAAGGAAGGGGAAAAGAAAAGGGGA
 GAAAGGGGGGGGGGCCGGAAAAGGAAGGGGGGGGAACCGGGG G GAAAAGGGGAAAAAAAAAAGGGGAGAAAAAAAA G G A A A A A A A A G G G G A A A A G G G G G G G G A A A G A G A A A C C A A CA $\mathcal{A} G G G G G G C C C C G G$ G G G G A G G A G A A C G G A G G G G G A A G G G G C C A G GA G A A G G G G A A A A A GAGAAAAGGAGGAAGGGGGGAAGGAGCAGAAAAGGAAA G G A A A A GAA $A \operatorname{G} G \mathrm{G} A A \operatorname{A} G A A A A A G G G A G G A G A G A A A G A A A A G A A A C B A$ G GAAAATTAAGGAAGGAAGGGACAAGGACAGGGGAGTTGGAA TAGGAGGGGGCAACGGGAGGCAAAAGAACAGAGGAGGAACAG G GAGAGGGGAAAGGCAAGAAAACCGACCAAAAGAAAAAACCC C CAGCAGGAGAAGGGGTTAAAAAAAAGGGGCCGGAGCAAGAG G GAAG $A \operatorname{AA} A G G G G G G A G A A A C G A A A G A G G A G A C A A G G A A C G G A$ A A GAAA A A A GAACCGAAGAAGGCAGGGGGAAAAAGGGAAAA G G GAA $A \operatorname{GAA} A G A A G C A A G G G G G G A A G G A A C C G G G G A A A G A A A G$ G GAGAAGGCACGAAGAGGGGGGCCACGAAACCCAGGGGAAGAG GACCAGGGACGGCCCCGGGGGGAAGGGGCCCCCCGGGGAAGB A A G G A A C C A A C A G G A A G G G G A A G GA A A GAAAA A GA G G A G G A G GAGAGATTGGAGGGGAAAGGGACGGACAAGAGCCGGGAAAAG

A A GAGGAAAAGGGGGGAAGGAAGGAGGGGGAAGAGGAGAAAG GAGGGAGAAACCAAAAAAGGGGGGCCGGAAGGAAAAAAGGGG G G A A A A G G A A A A A A C CAGGGGAGAGAGAGGAGGGAAAAAGAA AGAAGGCCAAGGGGAACAGAGGAAGGAAGGAAAGAGGGCACA A GAGAGACGGCAAAGAGGAGAAGGGGGGGGCAGAAAGACCBG G GAAA A A A G GCCAGAGAAGAGGTTAGGGGGGGAAGGCCAGGG AAAAAGCCGGGAGACCACAGGACCGGGGAAGAGGGGCAAGAA GAGGCCAGAACAAGGGGGGAGGGGCCGAAAAAAAAAGAGAGA AACACAGGGAAGAGAAAAGGGGGGGGAAAAAAGGCCGAAACC TTAGAGAAGAGAAAGGCCGGCCAAGAAGCCCCGAAAGAGGCC G G G G G GAACCGGAAGGAAGGAAAGAAAACCAAAGCCCAGAAA G G G GCCGGGGGGAAGGAGGGGAAAGAACAAGGGGAGAGAAAG C CAA $A \operatorname{GAAAAACGAGGGGGCAAAGAAAAGGGCAAAAAGGAAAA}$ C C G G G G A A A G G A G A C C G GAA AGGGAGAACGGAGGGAAAA GAA CAGGAGGAGGGGAAAAAAAAAAGGAAAAAAAAAAGGAAAAGG G G G GAA A GAAAAGGAGGGGAAGCCAAAACAAAAAGGGGAAGA C C G GCAAACCAAAGGAGAAAGGAAGGGGAATTGGGGCCAACA GACCAAGACAGAAAAATACACAAACCGAAGAGGAGBAAAAGA $G G C C A A G G A A G G G G A G A G G G G G C C C C G G C C G G A A A A G A C A G A$ AAACGAACCACAAAAGGGCCCCGAGGCCGGGGACAGA
A A A G G A G A A A A C C G G G A A A G G A G A A G G G G G G G G C C G G G G G G G GAA A G G G A A A A G G G GCC G GCCGGAAGGAAAAGGAAAAAAGG ACAACAGAAAGGGGAGACAAAGAGACAGAGGGGGAAGACAAG GAGAAGAAGAGCGGAAGGAGAAAAAAGGAAAAGGAAAACCAC A A A A G A A G A A A G G G G G G G G A G G G G G G A C G GAGGGCA A A A G A A $C \subset G G G G A C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G G$ GAGGGGAAGGCAAAAAAAGGGCAGAACCGGGGAAGGAACACC A ACCAAGGCAAAAAAAGAGGGGGGAGAGGGAGGACAGACAAC ACGAAAAAGGGGCCGGGGCCAGAACCAAAAACGAGGGAGGAG AAGGACGAGAGGAAAGGAAAAAGGAAGGGGGAGAGGGGAATA A A G G A A A G GAA A A TAAAACCGAAGCAGAAGGGAACCGAAAGA AACCAAAGAGGACCAGGACGGAAAGGGGCCATAACCAAAACC
 A G G GAGACGGAAACGAAGAGGAGAGGAAAAAAGGAGAAGAAA AAGGCCGGAAGAAAAAAGAGAAGGAACCGGCCCAAAGAAAAA C C GCCCAGAGAAGGAGGGAAACAGGGAACCGAAAAAAAAAGA G GAAAGAGGAAGAAGGCCAGCCGGGGAGAGAGGGGGGAAAGA AAAGAAAGGGAGAACGAAAGAGGGAAGAGGGGAAAACACC GA A GATGGGAAAGAGGAACAAAAAAAGGGGGAGGGAGGAGAAGG A A A A G GAAAA $A \operatorname{ACC} G \mathrm{G}$ GAAAAAAAAAAAAAGGAAAA GGGGGGGG GAGGAGGGAAGGAAGGGGTTAGCAGACGGGAAGAAACAGAGA A A G G G GCCGGGAAAAGGAACGACGGGGAAGCCGGCCGAGGAA G GAGAAAGGGAACCAAGGAGGGGGGGAAGAAAAAGGAAAABA G G G G G A G G G G G G G A G G G A G A C C G G G G A A A A G G G G G G A A A G G A A G G G G GAA A A A ACCAAACGAAAGGCCGGAAAAAGGGGGAAAA
 A GAGGGGAGGAGAGAGAAAAAGGGAGGGAAAAGAAACAAA GAG G G GAGGTTGAAGACGGGGGAAAGGGGGGACGGGGAAGAAAAA G G G GCACAAGGGAAAAAAAAAAGAAAGGAACAAACCGGGGAA C C G GCCGGGGAAAGAGGGGGACGGAAGGGAGGCCCCAAGACC C C G GAGGGGGGGGAGGGAAGAAGAAAAAGGAAAAACGGACAC A G G G G CA $\operatorname{Cig} G C C A C G G G G G G T A A A C G A G G G A A G G A G G G A C A A$ G G A A A A A $\mathcal{A} G G G G G A C A G A G G A G G G G A G G A A A G A C C A A G A G A G$ AAAGCCGAGGGAGGACGGAAAGGGACGGAAAACCAAGGAAAA C C G GCCAACCAAACAGAATTAAGGACAAGAAAGAGAAGGGGG G G A G G G A G T T A A C C G G G G G G G G G G G G A A G G G G G G A A A A G G A A GAAGAGGGGAAGAGAGGGGGAAAAGGAACAGAAGAAAAGACC GAAGAAGAAAGAGGACAGCAGAAAGAGAGGGAAGAAAAAAAA $A G G G G A G G G G C C A A G G G G A G A G C A A G A C G G C C G G A A G G G G G A$
 A A A A G G G G GAATAGCCAGCAGAGGAGAACCGGAGAGAACAAA C C C C A A A A GAAAGGGGAAGGAAAAAAGGGGAAAAAAAAAAAA G G G GAA A G G G G GCCAGAGAGAAAGGGGGGGGGGAAAAAACAA GAGGGGAAAACCGGAAGGGGCAGGAGAGGGAGAAAAAAAGAT GAAGAAAGAAGGGAGGACGAGGCCCCGGAAAAAAAGAGGAGG G GCCGGCAAGAAACAAGGAACCAGGGAGAGAAAGCCGGAGGG $G G A A G A G G A A A C G C G G G G C C A A G G G G G A A G A A G G C A G G A A C A$ $A C A A C G G A G G G A A C G G G G A G G G G G A A G G G G C A A G A A G G E G A A$ GAGAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAAA C CAGGAGAGAAAGGCGAGAAGAGAAGAAGGGAAAAAGAAAAA C CAA A A A G GACCCCGGGGAGAAGAAGAGGGGGAGAGCCAAAG
 $G G A A A A A G G A A A G G A A G G A G A A A A C C G A A G A G G G C C A G A G G A$ A A G GAA A G G GAAGGGGCCAGGAGACCAGAGCCGGAAGGAAGG A GAAAAAAAAAAGGGAACAAAAAAAAAACCGAAGCCGGAC GA A A G GAGGAAAGAAAGGACGGAGAAAAAAGGGGCGGGAACAAA A A A A A A A G GAA A G G G GACTAGAGAGGGGAAAAGGAACA GAAA G G G GAAGGAAAAAAAAAACAAAGGAAGGAAGGGAAAAACACC $C \subset A A G G G G G G G G A A C C A G A A G G A A G G G G G A C C C C A G A G A G G A$ AAGAGGAGAGGGGAAAAAGGCGAAAGAACGCCAAGGGGAGGG
 G GAAGAACAAGGCCGAGAAAGAAGACACAGACAAGGAAGAGA G GAGCAAAGGGAAGAGAGGGGGGAAACCGGAAAGAAGGAGAA AAAGGACAAAAAGGAAAAAAGGCCAACGGGGGAGGACCAAGB G G G GAAAAAAAGAGTAAAGAGAAAATAAACAACCGGCCAAGA G G G GAACCAGAAAAAAAAGGGGGAGGAGAGAAGGAGGAACTT GAAAGAGGAAGAGAGGTAAGAAAAGGGGCAGACCGGAAGAGG G G G GCCGGAAAAAGGGGGCCGGAAGGGGGGGGAAAAAAGAAA AAAGGAAGGGCCGGAAAGAGAAGGCAGGGGAAGGGAAAAAAG G G G A A A A A A A G G G G G G A A G G G G G G A A A A GAAGGGAGCAAACA GAAGAGCCGAGGGGAAGGGGGGGGAAAAAAAAAAGGAAAAAG G G GAA $A \operatorname{G} G \mathrm{G} G C \subset A A G G C C G G G A A G G G C A G G G G G A G A A A A A A A$ $C \subset G G C A A A A A A G G A G G G A A G G A A G G G G G G G A A A A A G G G G G G G$ A GCAAAGGGGAGGGCCGGGGACAAGGACAGCACAGGCCXCAG G G G G G A A G A G G G G G A A $\mathcal{A} G G A G G A A A A A C A G A G G G G G G G A G G G$ AA $A G A A A G G G G A G A A A A A C C G G C C A A A A G G A G A A C A C C A G G G$ G G G GAAAAAACCGGGAAGGGGAGGAGAGGGGGGGGGGGAAGA G G A G A A G G G G A A A A C CA $A$ A $A$ GAACC GAGAGGGGGCAGAGAA GA G GAA A GCCAAAAGAAAAAAAGGGGAGACGAGACCAAAAACAA A G G A A A A A G G G G G G A A G G G G A A A A A A C C G GAGCAG GAG GA G A GAGGGGGACCAAGAAACGCAAGAAGGAAAGAGAACACABGGG
 C CAAAAAAAAGGAACCAAGGGGAAAAAAAAGGCCCCAAGGGG A A C C A A G G A A G GCC G G A A G G G G G G A A G GAA T T G G G G G G G G A A A A A A A A G G A A A A A A G G A A A A A A A A A A A A A A G G G G G G G G T T C C C CAAGGCCCCCCCCGGCCGGGGGGAACCGGAAAAAAGGAGAA G G G G G GAAAACCAA $A \operatorname{A} A A A A A G G A A G G G G A A G G G G G G A A G G G G$ G G G G A A G G G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A A A A A G G A A A A A A G G G G C C G G G G G G$ G G G GCC C G G G G G A A A A A A A A G G G G G G G G G GCC T T C C G G A A G G A A G G A A G GCCCCAAGGGGGGGGGGCCAACCAAGGAAGGGGGG G GAAGGCCGGGGAAAAAAAAAAAAGGGGAAAAGGAAGGAAAA T T G G A A A A G GAA $A \operatorname{G} G A A A A G G C C A A A A G G A A G G A A G G G G C C G G$ G G G GAA AGCCAAGGAAAAAAAACCGGAAGGAAGGCCAACAGG G GAA A G G G C C A A G G G G G G G G G G A A C C G G G G G G A A G G G G A A A A G G G G A A G G A A A A C C G G G G A A G G G G G G G G A A G G A A G G G G G G A A G G A A G G G G A A $\mathcal{A} G \operatorname{G} G \mathrm{G} G \mathrm{G} G A A A G G G G G G G G G G G G G G G G G G G G G G$ $G G A A T T A A G G A A C C G G A A G G C C G G G G A C G G A A G A A A G G A B A B$ GAGAGGACGGGAAAGGACGGAAAGAAGAGAACAAAGCACC AA

A A A GAGGGGGAAGGGGGAGGCCGGAAAGGAAGGGAGAAAAAG

 G G G GAA A G G GAA $A \operatorname{AGGGGGAAAAGGCAAAAAAAGGGGGAAAAA}$ GGCCGGAAAATTCCAAGGGGAAAAAAAAGGGGGGAAAAAAAG G GAAAAGGGGCCAAAAAAGGGGAAGGAACCAAGGAAAAGGGG A A G G A A G G G G G G G GAAAAAAAAAAAGGAAGGAA GAA GA G G G A A A GGAAAGACGAGAAGAATTAAGGGCGACAAAGGAGAAAAGGAA A G GACCGAAAAGAGAGAAGAAAGAGACCAAGGGAAGCAGGAAA G GAGAAGGAAGGGGGGAAGAGAAAAGGGAAAGGGGAGAAAAA A G G G G GAGGAAAAAGGCCGAGGAGGGAAAAGGAAGAAAAGAC
 G GAA A A A G GAAAAGGGACGGCCAAAGGAGGCCGACCAGAGAG $G G A A G G G G A A G G G G A A A A A A A A G G G G A A G A A G A G A G A A G G A G$ G G G GAGCCAGAGGAGAAGGGAGGGCACCGGGGGGGGAAGGAA AAAAGGCAAACCGGGAAACCAGAGGCGGGGAAGGAGAGAAAG GAGGGGAAAAGGCCACCCGAGAGAAAAAACGAAGGGAACCAA AACCAAGGAAAAGGAAAAGGCCAACAGGGGAAAAAAGGAGAAA G G G GAACCAGGAGGGGAAAGGGCCGACAGAAGGAAGCCAAAA A A A A G G G G G A G G A G C C A GAGGAAGGGGGGGAAGGAGA
$A G G A G G G G G A G A G C C G G G G A A G G G G G G G G G G A G A G G A G A G G$ A GAGGAGGAAGGGAAAGGTTAAAAAAGGGGAGAAAAAAGGGG G G G G G G G G A C G A C C C C A A G G G G G G A G G A C C G G G G G G G A A A A A G G A C C A G C G G G A G A A G A G A GA $A$ GAGGGGGACCAGCAAA G G G G GAGGAAGGAAGGAACCAGACAAGGGGAAGGGAGGGGAGAAAAG GAGGAAAAGGAAGGGGAAAAAAAAGGACGAAAA GAAAGAGAG CACCAAAAAACAGGGGGGGGGAAAAAAAAAGGGGAGGGTAAG G G G A T A G GCCAAAAGGAAGGGGGAAAAGAAAACCGGCCAA G G G G A A A A C C A A A A A A G G G G G G G G A A G G G G G G G G G G G G G G A A A A GGGGCCAAAAAAGGAAGAACCCAGAGAGAAAAGACCGAAGAC
 GAGGAAAACATTGAGGGGAAGGAAGGGGGGAAGGGGGGCCAA GAAAAGAGGAGGAGGGGGGAGAGAAAGGAAAGAAAACCAGAG G G G GAA A G G G G G G A A A A GAAA $A$ A A A A A A A G G CAAA A G GAA A A A ACGGAACCAAGGAGAAAAAGCCAAAAGGAAAAGGGGCAAGGG A G G A A A A A G G A A A A A A G GAAAA A G G GAAAAAACCA GTTAA G G G G G GA $A$ A $\operatorname{GA} A \mathrm{~A}$ GAAACAAAAAAGGGGGAAGGGGAGAAAAAAAA $C C G G A C A A A G A A G G G G G G G G A A G G A A A A G G G G T T G A A A G A G G$ G G A G G G G A A A G A A C G G A A G G G A G A GAGGGGAGAACACA GA G G A A A A G G A A A A G GAACCAAGAGGGACACCGGGGAAAAAAAA GA $G G A A G C G G G G A A A A G A G A A G A G A G A G A A G A T T G G C C A G A A G A$ G G G G G A G G A A G A G G A A G G C C A C G A A T G G G A G G A A G G A G G G A A GAGAAAGGAACCGGGGAAGGAATTGGACGAGGGAAAGAACAC A A A A A A G G G G G G G GAAA $A \operatorname{AGGGGAGGAAAAGAAAAAAGGAGAA}$

 AAAAGGGGAAGAGGGAGGACAAGGGGAAGGAAAACAAGACAA
 G GAAAAGGGGGGAAAAAAGGAAGGGGAGCAAGGGGAAAAGAAA G GACGGAAAACCGGAAGAGAAAGGAAAGAAGAGGAGAAAAAA AAAAGGAAGACCAACCGGAGGGCCAAGAGAAAAAAAAAAAAA GGCCGGGGAACCAAAAGGGAAAGGGAAGGGAAAGAAGAAGAG CAGAAGAGAGCAGGCCAAAAGGCCCAAAAGGGGAAGAAAAGA AAAAAAAAAACCGGAGAAGAAAAAAAGGAAGAAACCGGAGGA $C \subset A A G A A A G G A G G A A G A G C C G G G G G G G A A G A A C C G G G G A G A A$ G GAGGGGGAGGAAAAAAAAAGGCCAGGAAGGGAGGGAAAACAC G G G G G A G A G G G GA GAAAAAAGAGAGGAGGAGAGGGGGAAAAAA T TAA A G A A A A A A A A A $\mathcal{A} G G G G G G A A A A A A A G G G G G G G A A G A A A$ A GAAAGCGGGAAAGAGAGAAAAAGCCAAAGAAAGAGGAGGGG

GATACCGAGAGAAGGAGGAAACCCAAACAAGGGGGAGAGGCA $A G G G A A G G A G A G A G G A A G A A A A G G A G G A A G C A G A C A G G A A G A$ A G G GAACCGGAAGAAGAAGAAGAGCCAAAACCGGGGGGCCGG GAGAAAAGGGGAAAAAAGCCGGAGAAGAAGAGCCCACACAAA GAA A A GAAAACCAAACAAGGAACCGGCCGGAGAAGGAGAGGG GAGGAGCCCCCAGGAAAAGGAAGGGAGGAAGGAGAAGGAGAG G G G A A A A A GA G A A C A A GAAAGGGGGGCCAGGGGGGGCAAAA G GAAGGAGGAAGGGGAGAAAAGGAGAGCCGAAGGAAGAGAGAA A A G GAGCAAACAAGGAAAGGGGAAAGAAAGAAAAGGGGAACA GAGAGAGAGGAATTAGGGCAACACAAAGGGGGGGAAGGGGGA AAGGAGGAGAAGCGAGCCAGAAAAAGGAAACACCBAAGCAGB
 A A G G G A G G G G G G A A A A A G G G A G G G G G A CAAA A A CAAAA A A A A
 G GCCGAAAGGAAAAGAGATTCCACGAGGAAAGGACCTTGGGG A GAA A GAAAAGAAAGGAACCGAAGGGGGGGAAAAAAAAAAAA G G A A A A G G G G A A G G G G A A G GCCGGGGAACCAAGGGGAAACAC GACAAAGGAAGGAAGGAAAGAGAACAAGGAAAAAGACCACAA AAGGAAGGAAGGGAGAACGAAGGAGGGCAGCAAGGAAGAGGG GAGAGGGAAGAACCAAGACCGGGGAACCGGAAAACCCAAAAA $G G A C A G G A A A A A G G G A A A A C G G G G G G G A C C G A A A A A A A G A A G$ AAAGAGAAGAGGGGACGGAACAAAAAAGAGAACCAGAAGGCC A A G G G GAGTTGGGGAAGGGACCGGAGAGGGAAGGAAAAAAAA G G G GCCGGGAGGCAAGGGAGAAGAAAAAGAAAAACAAAAAAA G G G G A A G G G G G G A A G G A G A A A A A A A A GAA $A \operatorname{G} G A A A A A A A G G C C$ A A G GCCGGGGAACCCCGGGGGGAAAAGGGGAAAAAAAAGGGG AAAAAAGGGGCCAAAAAAAAAAGGGGGGGGAAGGGGGGAAGG G G A A A A A A G G A A A A A A A A A A C CAA G GCCAAAA G G G G G GCC G G C CAAAAAAGGGGCCCCAAAAAAAAGGGGGGAAGGAACCGGGG AAAACCGGGGAAAAGGGGAAAAGGGGAAGGAAGGGAAAAAGAG G G A A A A A A G G G G G G T T A A A A C C G G A A G G G G G G A A A A G G A A G G AAGGGGAAGGAAAAAAGGGGGGGGGGCCAAAAGGAAAATTAA G G G G G GAAAAAAAAAAAAAAGGGGAAAAGGCCAA GGGGAGAA G GAAGGGGCCAAAACCGGAAAAGGGGAAGGGGAAGGGGAAAA A A G G G G A A A A A A T T A A A A G G G G A A G G G G A A G G A A G G G G A A G G AAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGAAA AAAAGGAAGGAAAAGGAAAAAAAAAAGGAAAAGGGGGGAAAA AA $A \operatorname{GGGGGAAAAAAAGGGGAAAAGGAAAAAAGGAAAAGGAAAA}$ G GCCAAAAAAGGGGAAAATTGGGGGGGGGGAAGGAAAAAAAG A A A A G G G G A A G G G G GACCAGAAGAGAGGCCGGAGGGGAAAAC C C T T G GAA $A \operatorname{GGG} \operatorname{GAAAATTAAGGAGCAGGAGAAAGCCAGAGAG}$ A GACCGAGAAAGAAGACCGGGAGAGACACCGGAGGGACAGAG AAGAAACCAAGGGGAAGGCCGAACGGCCGGAAAAAAGAAAAG A GAA $A$ A $A$ A A $G G G A A A A G G G A A A A A A A G G G G C A A A G G A A A A G G$ $G G A G A G A A G G G A A C A A G A G A G G A G G G C C G G A A A A A A A G A A G G$ A A G G A A A A G G A A A A A A GGGGGAAAGGACCCAGAAAGAAAACC AACACCGGGAGGGGGGAAAAGGAACCAAGGAAGAAAGGAAAA GACCAAAAAAGAGAAACCCCAAAAAAGGAAAAAAAAGGAGAA ACAAGGGGGGAGGGGGGAGAGGAAGAAAAAAAGGAAAAAGAG G G G A G GA G C G G A A A G G G A A A G G A A G G A G A A G G C C A A G G G G A G G G G G A G A G A A G GAA A A A A A G G G G A A A GAGAACCAAAAAAA G G G G G GAAGGAAAACCAAAAAAAAGGAACCGGAAGGGAAACCAG G G A A A A G G A A G A CAGGCCGGAAACGAAAGGGGAAGGCCAAAA AAAAACAGAAGGGGAGGGGGAGAAAAAAGGGAGGGGGACAAA AAAGGGAAGAAGGGGGAAGAAAGAGGAAAAGGGGAGAGAAAG A G A A A A A ACCAAACGGAAAGTAGGACAAAAAACAGGBAAAAA AAACGGGGAAAAAACGAAGACACCAGCCAAAAGGAAGGAGAG A A G A A G A G GAAACCACAGCCAGGGAAGGAAGGGGGGCCGGGG GGAACCCCAAAGAGAAAAAAAAAAGGAACCCCAGAAGGAAAA

G GAACCGGAAGAAGGGGGACGGAAGGAAACGGGGGGGGAAGA
 G G GAA A ACCCAGCCGGCCGGAGAGGGAAAGAGAACAAA G GA G C C G GAGAAAGAACCGGGAAGAACCCCAAGGGGGGCCCAAAAA A A A A G GAAAAGGCCAGGAAGGGGGGGGAAGGGAAAAAC GAAA G G G G G G G G G G G G A A A $\mathcal{A} G G A A C A G G G G G G G G A G G A G A A A A A G$ A GAA A GAA $A \operatorname{AGGAAA} A A G G G G A G G G A G G A G G G A G G A A G A A G A A$ AAGGGAGAAAAAAGACAGGAGGAAAGAAAAGAAGGGAGAGAG A G G G A G G G A G G G G A A G G G A A G G G G G A A G G A G G A A A A A G A G A A G G G G G G G G G GAAAAGAAACCAGGAAGGAAGCCAGGAAACCGG G GCCGGAGGAAGGGCGAGGGGGAAAGAACCGGGAGGAGAGGG C C A G A A G A A A G A G G G G A G G A G G A A G G CAAAAAAA A G G GAAA $A$ G G G GAAGAGACCACCCAGCCCACCAAAAAAAAGGAAAGAAAA
 G G G G G G A A G GAA $A \operatorname{G} C \subset A A A A G G A A A A G G G G G G G A G A C C B G A A$ A A G G G G G GCCGGGGGAGGAAGGACGGGGCCAAAAGGAAGAAA CAAAAACCCCCCCAAAAACAACGGGAAGAAAAAAGAGGGGGA TAAGGGCCAGGGGACCAGGGGGAAGGAGAGGGGGGGCAAAAA C C G G G A A A A A C CCCAGAAAGAAAGGGCCAAACCAGGAAAAGAG GAGGAGGAGGAAGGCCGGAAAAGGGGGAGAAAAAAGG
GACGGACAGAAGGAACCGAGGGGCCAAACGGGGGGCAAAGG AACCGGCCGGAAAACCAGGGAGGGAAGAGGAGAAAAAAGGGG G GCC G G A A A A A A A A A G A G G A G G G G G A G G G G A A G G A C A A GA G A A GAGAGGAGAGGCCGGAAGGGAGAAGAAGGGAAAGGAAAAAA G G G G G G G G G G G GAAAAAGGGGAAGACCGAAAAAAGAGCAGACC $C C G G G A C C G G G G A T G G G A A G A A A A A A A A G A G G G G A C A G C A A A$ G G G G GAAGAAGGAAGGAGGAGGAGAAAAAAAAGGCCGACAAA $A G A A G A G A G G G G G G A G G G G G A G G G G G A G G G A A G G G G G G A G A G$ GAGGGGGAAGGGGGAGAGAAAGGAGGGAGAGGAAGGGAAGAA GGAAAAGAAAAGAAAAGGGAGGCCGGAACCGGAAGGGGAAAA A A A G G G G A A A A A A A G A A A A A G G G G A A A A C C C C G G G G G G G G G G G GAAGGAAAACCGGGGGGGGAACCCCGAAGGGAGAGGGAAGG G GCAAGAGAGGGGAGGACGAGAGGAGACGAAGGAAAAAAGAA A G G A A G G G GAA $A \operatorname{GG} \operatorname{GAAAAGGGAAAGGAACCGGGGAAAAAGCA}$ $A G C C A A A A A G A G G G G A A G A A G G G A A A A A A G A A C A G A G G A G G A$ GAACGGGGAGAAGAGAAGAAGAAAACGAGGGGAGCAGGGGGG G G GAAA A A GAGAAGGAACGGAAGGCAGGACAAGACCCAGAAC A G GAGGACGAGAGAGGGGGAAGAGGGAAAAGGGGGAGAACAA GAA $A \operatorname{A} A G G A A A G G G C A G G G G A A G G A C C A A G G A C A G G A C G G G G$
 C CAGAAGGAAAAGAGGAAGAGGAAAGGGGAAGAGAGGGAACA G A A G G A C G G G C C G G G G A A A A G G G G A A A G G G A G C A A G G G A A G A A GAAAGAGAAGAAGGGAGAAGGAAAAAAGAAAAAGGAAGAAA A A G G A A A G A G G G A A C G G G G G G A T T G G GAA GA GAA G G C C C C G G G G A A G G T T A A CA GA ATA G CAA G GAAACCAAGAGAA G GAAA G G A A G G G G A A G GCC $C$ G $\mathcal{A} A G G G G A G G G G A G A C G A A A G A C C G A C C B G$ A A G G G A A G A A G A G G G G A A A A CACAAGGGAGAAAACCCA G GAA C C A A A A G GCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA AA $A G A A A A A A G G G G A A G G A A A G A G G G C C A A C G A A A A C C A A A G$
 A G A A A GAAAAAAAAGGGGGGAAGAGGCCCCAAGAGAAAAAGG AACACCAAGGAGAGAGAGATAAAGAGAATTGGACAAAAAGGA A A A A G G G A A C G A G G A A A A G G A G A C G A A A A G G G G A G G G G G A G G AAGGAGAGGGCAGGGGCACCGAAAGGGGAACGTTAAGAGGGG A A A A GAAGGAGGAAGGGGGAACAGAGAGAAAGAGCCAGAAAA G G CA $\operatorname{G} G A G G A C C A A A G A G G A A G A A A G G G A A G A G A C C T T A A G A$ A GACAAAAGGGACCAGAAAGAAGGAAGGAACCAAAAGGAAGAG A A C C G G G G G G A A A GAA G G C CAA A GAAAA G GAAAAACA A G G G A A $G G C C A A G G G A C A G A G G A G G G A A A G G A A G C C G G G G G G A A A G A G$
 G GAGAAAGAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGB A A G G A A A A C C C A GAGG G G G G G G G G A A A A A A G G G A G G G G A G A A A GAGAACCGGAGGGAGGGGGAGAGGGGAAGAAGGGGACAAAG G G G GCCGGAGAAGGAGAGACAGGAAAAAAGAGGGGAAGACAC G GAAGGAAGGCCAAGGAACCAACCGGGGAAAAGGAAAACAAA C CAACCAGGGAGAAAACAGACAGGGGAAACAAGAGAAGAGBA A G G G A A G A A A A GACAGAGCCGGGAAAGGGGACAAGGACAGAA G G G G G G A A A G A G G A A C G A A A G G G G G GAAA A A C G A A G A G G A G G G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAAGAAGGGGG G G G G G G G G G A G A A G GAGGAAGGAAAAAAGAGGGGAA GA GAA $A$ GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAAGAT CACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAGB A G G G A A G G G G G A G A G G C C G G G G G G A A A A G GAA A G A A G A G G A A AAAGAAGGGGAGCAGAAAGGAGGAGGCCGGCCAAGGGGGGGG A A G G G G G G G G G G T T A A A A G G G G G G G G G G G G G G G G G G G G A A C C A A G G G G A A A A G G A A A A A A G G G G G G G G G G C C C C A A G GAACA A A G GAAGGCCAACCAAAAAAGGGGGGAAGAGGAACCAAGAAAGA
 A A G G G G G GCC G G G G G G G G A A C C G G A A G G G G C C A A G G G G G G A A G G G G G GAA A G G GAAAAGGAAAAAACAGGGGGGAAGGAAGGGG A A A A G G G G A A A A G G G G G G G A G G G G A G G G C A A $\mathcal{A} A A G G G A A A G G$ AC GAGGAGAAGGAGAGAAGGCCGGAAGGAAAAGGAAAAGAAA
 $A C G G A A G G A A G G A A A A T T G G G G A A A G G G G G G A A G A A A G A G G G$
 C CAAAAGGGGGAGGAGAGGGGGAAGAGGAAGAGGGAAAAAGG A GAAAGAAGGAACATTCCAGGAAAGGCCAGCCAAAAGAAAGG G G G G A A A G A G A G G G A GCC G G G G A G T A G GAA A A G GAACAAA G G $A G G G A A A A G G G G A A G G G A G A A G A G G G G G A A A A G G A A C A B A G G$ A A C C A A A C G G A G A A C CA $A G G G G G G A A C C A A A A G G G G G G G G A G$ G G G GCC GAA A A GAAAAAAGGAAGACAGGAGGAGAGGGGGGGG

 A A A G G A G A A A G G G G GAGGCCGGTTAAGGGGAAGACCAAAAAA GAGGGGAAGGAAGAAGGAAGGAGGAAAAAGCCGAAAGGAGAA A G G GACGGCCCAGAAAAAGGACACAAAGAGAAAAGGAGAGAG A A A A A A G GCCGGGGAAGGGAAAGAGGAAGGGGGGAAGAAAAG G G G G G G G A A A A G G G G G C A G A C C G G G G G G G G A GAGCCAAAA C C A CAA $A \operatorname{A} G A \operatorname{A} A A G A G G C C A G G G G G G A G G G A A A A A A A G G A A G G C C$ A A A G A A G GAGGGAGAGACGGGAGGAAGGGGAAGGAACAAAAA GAGAAGACAGAAGAGAAAGAGGCACCCCCCAGAAGGGGAAGG GAAGGGGGGAAAAAGGGGAAGGGAAAGAGGAAAGCAAGAGAA A G G G G G G A A GAAAAGGAGAAAAGGGGAACCCCBAAAGGCAAA
 GAGGAGACAAGGAAGGGGACGGCAGGCACAAGAAGAAAGABG A GAA $A$ A $A G C C G A A A G G G G G T T G G A A G A A A T A G A G G G G A G A A$ A G A A A A G G G G G G T T A A G G G G G G A G A A A A A A A A A A A A G G G A A $G$ AAA A A A G G G GAGGGGAAAGGGGATAAAAGAAAAAAGGGAAGG GATTACAACCAAAGAAGGGGAAGAGGTAGGAAAAAAAAGAGG AACAGGGGAACACAGAGGGGGGAAGAAAAAGGGAAAAAAAAA AA GAACAAAAAAAACAAAAGGGAAAACCGAGGAGAAGGGGAA C C G G C C A G C C A A G G G G A A A A A A G A GAGGGAGGGGGAA GAAAC GAAACAAGAGAAAAAGGGCCGGCCGGGGGGAAAAAAGGAAGG G G G GAA $A \operatorname{GAA} G \mathrm{~A} C \mathrm{C} A A \mathrm{~A} G A A A A A A A A A A G G A A G G A A C C A A G G$ A A A C G A GAGGAAGGGGAAAAAAGAAAAAGGGGGGAAAAAAAA GAGGAAGGAAGGAAGGGACAAAAAAAGGCAGGCACCCCAAAA G GAAA $A \operatorname{AGGAA} G G A A G G G G C C G G G G A A A A A G C A G G G G G G A B A A$ AAAAGAGAGGGGAAAAAAGAAAGGAGGGAGAGGAGGGGAAGA

G G G GACGGGGCAAAAGGAGAAGCCCCGAACGAAAAGGGGGGG A A C G A A C C G G G G G G G G A A A A C C G A A A A A A A C C G GAA G G G G C C GA $A$ A $\operatorname{G} G A A G A G G A G C A G G A T A G A G A G A G G A A G G G A G G G G G G A$ GAGGAGAAAGAAGGAAAAGGAGGAAGGGCCAGAGACGGAGGA G G G G G A GAGGCCCC G G G G GAGGAGGGGGGGAAAGGCAGGAGAA GAAAAAGGGGAAAGGGAAGCAAAAACGGGGAAAGAAGGGGCC AAACGGGAAGGCGGATAGAAAAGGGGCAAAGGAGBAACCCGG AAAAAAGGAAGGCCGGAAAAGGAGAGGGGGAGGGAGCCAGAA A G G A A G A A CA G GAC GAAGGAGAGGCCGAAAAAAAGGAGACAA AACCGGAAGGAGAAAAAACCAAAGAAAGAAGGAGGAAAAAAA A A A A A A G A G G A A GAAAAAGGGGAGCCAACAGGAGAGAACAAA GA $\mathrm{G} A \mathrm{~A} \boldsymbol{A} \mathrm{G} G \mathrm{G} G A A A A A A G A A C C A A C G G G A A G G A A A A A A G G G G G G$ CAA $A$ GAAAAGGAAGGGGAAAGAGGGGAAAAAAAGGAAGGAAAA GAAGGACAAGAAGGGAGGAAAGACAACCCAAAACAAGGGGGG GCAAAAAGAGAGAGAAGAGGAGACGGAAGGGGGGAAGAAACA $C \subset A A G A A G C C G G A A G G A G C A A A C C A A A A G G A A C A G G G G G G G G$ A A G G A A T T G G G GCACAAACCAGGAGGAAACGGAGAGAC GA GA C C A A G A G G G G A A A A A A G G G GAGAAGCGGAGGCAACAAAAAAG $G G A A A G G G A G A A G A A A A A G A A A C C G A A G A A A C A A A A C C G G C C$ $G G T A C A G G G G A G A G A A G G A A G G A A A A G G G G A A G G G G C$
AAAGAAGAAGAGAAGAAGGAGAACGGGAAAGAGAGAAAGAG A GAAAAGGACACAAAACCGAGGGGGGGGGAGGGGATAAAAAA $C \subset G G G G A G A A C C G G G G G A C C A G A G G G G A C C A G A G A A A A C A G G$ AAAAAGACAAGGAGAGAAAGAAAGGAAAGACCAGACGAGGGG A A C C G GA G GAA $A \operatorname{GA} A \mathrm{GA} A A G G A A A C G G T A A A A A G G A A G G A A G A$ AAAGAAGGCCAGAAGAAGAAAGGGAGAAGGAAGAGAAAGGGA CAGGGGGGGAACAAAAGGTAAAAGGAGGGGGGAGAAAAAAAA A A G GAAAAAACCACGAAAAAGGGGAAAAGGAAAACCCCAGAAA A A A A G GA GA $\operatorname{A} A A \operatorname{A} A C C G A G G A A G A A A T A G A G G A A G G C C G G C C$ AAGGGGGGAAAAGGAAAACCGGGGAAGGAAAAGGAAAAAAAA G GCC G G A A G G A A A A G G G G G G G G A A A A G GAA A G A A G GAAAA $A$ A A A A A A A A A G GAAGGAAAAAAAACCGGCCAACCAAGGAAGGAA G GCCAAAGGAGAAGGAAAGGGGGGAGCCGATAGAGGGAAAAG A GACAAAGAAAAGAGGACGACCGGAGAGGAAAGAAAGGGGGG $A G G G G G A A A A A A A G G G A G G A G G G G A A A A A G G G G A G A A A G G A G$ GACACCAATTAACCCGATACAGGGAGACGAGAAAGAAAGGAG CAAGCCAAGAGGAAGAGGAGGGAAGGGGAAGGTTCCGAAAGA A GCCAAAAAACCGGGGGGAAGGGGCCGAGAGGGGCCGGAAAG A GAGGAAGAAAGAAAGAGAGCCGGGAAGAAAGACBAAAAAAG A GACCCAAGGGAGGAGAAAAGCAAAGCATTAAGGAGAA GAAG A A G A A A $\mathcal{A} A A G G G G G G A G G G G G G G A A A A G A G A A G A A A G G A G A G$ A A G G A G GCGGAGAGAAAAAGAGCAAAGGGGAAGGGAAAGGAG A GAA A G G G G GAGCAGGCCGGGGAAACACGGAAGGAAAAAACA G G G G A C G G A A G G G G G A A C G A A C G G G GAA G G GAAC A A C CAA G G A A G GCAAGGGCAAGGGCATTAAAAGAGGAACCGGAAGGAGAA G G G G G GCCAAAAAAGGCCGGGGGGAAAAGAGAGACAGGAACC GACCCAAAAAAAAGCAGAAAGAGGAAGAAAGAGGAAGGGGAA CAC GAGAAGGAAGAAAAGAGGGGAGGGGGAGAAAGGAGAA GA A A G G G GAAAAAGGGAAACGGGAGAAAGACAGACCAAAAAAGA
 ACAAAGGAAGAAGGAAATGGGGCCGGAGGACCAAGGGAAGAA AAAGAACCGAAAGGAAAGCCCCAAAAGGGGAAAGGGGGAAAAA A G G A A A G A A A GAGGCCGGCCGGAAAAAAGGGGAAAAGAAAAA G G G GAA A GCCGGGGGGAGCAGGGAGAGAGAACAGAAGGGGGG A A A A A A A G GAA $A$ A A A A $A A G G G G A A A A G A A A A G A G G G G G A A G A$ G GACTTAAAAAGGACCAAGGGGAAGGAAAAGAGGGGCCAGAA A G A A A A A A A G G G A A A A G G G G G G G A A A G G C C C GCCAAA G C CAC C C G G A A A A A A C A A GCCAAA GAAGGCCGGGATAGGAAAA G G C C G G G GAGAATAAGAAAGAAAGAACCAAACGGCCGGCGGGGGAA

G G G G A A A A A A G G GAGGGGGGAACCGGAGGAGGGAAGGAAAAA ACAAGGAAAAGGAAGGCCAAAAAAGGAAGGAAAAAAAAGGAA G G G GAAAAAAGGAACCGGGGAAGGCCGGGGGGAAGGAAAACC G G G G G GAA A GAAGGAAAAAAAAAAAGAGGGAGAACAAAAAGA GAAGAAAAAGGAGAGGAACCGGCCAGGGGGGGACGGAGAAAG A G GAAACCGGGGAAAAAGAAGGGGGAAAAGGGAAAACCGGGG G G A A A A A G G GCCGGGGGGAAAGGGGGCCAGAACCGAGAAABA GAAAAACCGGAAGGAGACCCGGCAACCAACAAGGGGGGAGAA G G A A A C A A A A A A G G A A G G G GAGCC G G C CA G G G G GCC G G G A A G G G G G G G G G G GAGGAAACCAAAGAAGGCAAAGGAGAGAAAAGA C G G G G GAACGAACCAAGGAAAGGGGGCCGGAAGGAGGGAAGA G G A G A GAA $A \operatorname{GGGGGGGAAAAAAGGAAAAAAAAGAAAAAGGAGG}$
 GAAAGGACGAGGGGAAGGAGGGAGAGAGAAAACCABAAAGGG A G GAGGACACAGGGCAGGAAAAAAGGAAGAAGGAAGAAAAAG G GAA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G A A A A A A G G A C C C G A C C A C G G G G A G G G G G A A G A$ A GAAAAGGGGCCAGGGAAGGACCCGGGAAACACCAACAGAAA GAA A A A G G G GAGAA $A \operatorname{AAGGAGGAACAGCAAGGGAAGGGGGGGG}$ $G G A A C C G G G A A A A A A A G G G G A A G A G G A A G G A A A A A A G G A A A G$
 G G G GAGGGGAAGGGCCAAAAAGAAGGAAAAAAAAGGCCGGGA
 G GAA A A A A G GCCAAAGAGGGAGGGGGGGAAGGAGGGAACAAA $G G A A C A A A A G G A A A A C G A G G G G C A G A A A G A G G G G G A G G A G C C$ C CAACCAAAGACGGCCAGTTGGGGAGGGAGAAAAA GAA G GAAA G G G G G G A G A G A G G G G A GAGAGACAGAGGAAAAGGGGAAGGGA A G G GAAAAGGAAAAAGGGGGACCCACGGGGGAGGAAAAAAAG GAAGAAAGAGAAAAGGAAAAAGAGGGGAAAGGAACCGGAGAA G GAGGGCCAGGGGGAGGGGAAGAAAGAAGACAAGAATAAGAC G G G G G G GAAGCCGGAAGAGGTTGAAGGAAGGAAAGAGAACAG AAACAGAGGGGGGGAAAACCAAGGAGGGAACCGGCAAAGAAA GGAAAAGGGGAACCAAAAGGCCAAAAGAGACCAACAGGGGAA G GAACCAAAAGGGGGGAAAACCAACAAAACGAGAGGAAAAAA GA $A \operatorname{GAA} A \mathrm{~A} A A \operatorname{A} G \mathrm{G} G A A A A A G G A A G G G G A G G G G G G G G G G G A A A C$
 GAAAAAAACAAAAAAAGGAAAGGAGAAAAGGAGBAAGGAGGG A GAAAAAAGAGGGGAGGAACCAAAGAAAAACCGGAAGGAAGG GGCCAAAAAGAGCCAAGAGAAAGGAAAAGAGAAAAGGACAGA
 G GAAAAGGAACCAGGCGGAAAGAGAGAAAAAGCGCAGGAAAA G GAGAAAACAGGAAAAGGGGAAAAAAAAAAGGGGAGCCACAA $G G A A A A A G G G C A G G C C A G A A G A A A A A A A G G C A A G A G A A G A A G$ A G GAGAAAAAAGGGAAGGAGGAGAACGGAAGGAGAGGGGGGG G G GAGGAGCGGGAACAAAGGGGGGAAAAAAGGGGGGAACCBG G G G G A A A A G G G G G G A A A A G GAAAAAGGAAAGCCGGACGGAAA G CA $\operatorname{G} G A \operatorname{A} A A G G C A G G A A A A G A A G G A A A A C G G A C A A G G G G G G G G$ T T G G A G A A A A A A G G A A G G G G G G C C A A G G A A G G A A A A C C A A G G C C G GAAAGCAGAAAGGAAAAACAAGAAGGAGAGAAGACAGCC GATAGGAAGGAACAGGGGAAGGAAGGAAGGAAAAAACAAGAG GACCCCGGAAGGAAAACCAACCGAGGGGGGAAAGGCAAAAAA G G A A G G A A G GCCTA A $\mathcal{A} G G G G A G G G G G G A G G G A G A G G A A A G G G$ GAGGAAGGAGAAGGGGGGACGAAGGGAAAGGAACGACAAGGG GAAAGGGGAAAAGGCACCAGAAAGCCGAAACCAAAGGGGGAG G G G G G GCAAACCCGCAAAGGGGGGGAAAAAAAAAAAGGAAAG A G G GAACCAAGGGGAACCATAGAACACCCAAAAGATAAAAGG A A A A A A G G A A A A GAGGGGAAGGAAAAGGGGCAGAGAAAAGAA AAAAAGGGGAAAACGGCCAAAAAACGCCACGGGGAGAAAAGG A A GAGGAGCGAAAGATGGAGAGAAAGCAGGCCCCACGACAAG A GAAGAAGAGCGCCGAAGGGTTCCCCCAGAGGCCGCAAGGAA

AGACAGCCGGGGGAGGGACCGGAAGGAACCGGGAAAGAAAAA G G TAAAAAAA AAAGGAGAGGAAGAAAAGCAGGGGCAGGBAGA $A G A A A A A A G G A A G G G G G G G A G G A A A G G G A A G G A A G G A C A G A A$ A A G GAAAAGGGGGAGAGGACGGAGTTAGCCGGAGGCGGAAGA ACAACCAAGAGACAAAGGAAAAGGGGAAGAGAAAAAGGGGAA T T A A G A G G G G A A G G A A $\mathcal{A} G G G G G A A G G G A G G G G A G A A G A G A A A$
 $G G A G A A G A G G A A A A T A C C A A G G G G A A A A A A G G A A G B A A G A G G$ A G T T G G A A A G A A A A C G G G C C C C G G G G G G A G G G G G A G A A A G $\mathcal{A} A$ GAGGGGAGGGAAAAAGGGGGGGGGAAAAAGAGGGGAGAAAGA
 A G GAGGCAGAGGAAGGAACCAAAGAGGAACAAACGAAAAAAA A GAAATGGTTGAAAGAAAAGAAAAGGGACGCCGAGGAATTAA A A G A A A A GAGAGGGGGCCGGGGGGAAGAGGAAAGGGGGAGAA AAGACCAAGGGGAAAACCAAGGAGAGAGAACAGAAAGGGGCC AACCAAGACAAGACCAAGCAACGGGGAAAAGGCACCGGAAGAA A A A A G G G C G G A G G A A A G G G G G G G A A GAGGGGGGAAAAAAAAC A A G G G GAGAACCGAAGAAAGAAACAGAAAAGGAAAAGCAGAA G G A G A C G G A G A G G G G G A A G A G G A A G G G G C A A GAAAA A GAA A A A A G G G GCCAAGGGAAAGGCCCCCCAAGAGACAGAGGA
GCAGAGGGGCCCCAGAGACGGAAGGAACCAACCCCAACCGG AAGGAAAAGAAAAAAACCAGGGAGAAAACAAAAGCAGAGAGG G G G G T T A A A A G G G A A G G A A A G G A A G G G G G G A A A A GACAAAAA
 CAAA $A \operatorname{GAA} C A G G A G A A G A A T G G G G C X A G A A G G C C G G C C A C B G$ AACCACAAAAGAAACCGAGAAGAAAGGGGAGGAAGGAACAAA G GAAAAGAAGGAAGGGAAGGGGGAAGAAACAAGGATGGAGAG A A GA $\operatorname{A} G \mathrm{G}$ GAAAAGGGCCAAGGCCAGAGGAGAGAGAGGAAAGAA A A G G A A G GCCAAGGGGGGAAGAAGCCAGAAGAGGAAACACBG G GAGAAAACCAGCCGGAAAAGAAAGAAAACAAGGGGAAAAAA A A A A A A A G G G G G A A A A A A A A G A A G A A G G G A A G G G G G A G A G A A AAAAAAGACCCCAGGGGGGGGGAAGGGAGGAAGAGAAGAGGG
 ACAGAGGACCTTGGGACACAGAAGGCGAGGGGAAGGGGAAGB G G G G G A C C A G G G G G A A A A A A A G G G G G GAGAGCGGAA GA GAAA $A A G G A A G G A A A A G G G G G G A A G A G G A G G G G A G G G A G G G A B A A G$ A GAGAACACCGAGGGGAAGGAAGGGGGGAAAAAAGGAACCBA G GACTTCGAGAGAGAGAAGGGGAAAGAGAAGGAAGAAAAAAA A A A C A A G A G A G GAA $A \operatorname{AACGGAGGGGGGAAGGAGAAGGGGAAGG}$ GA $A \operatorname{GA} A A A G G G G G G A A G G C C G G C A G G A G G C G G G G A A G G A G G G$ $G G A A G G C C A G G G G A C C G A A A A A A A G A G A C A A G G A A G G G A A A A$ T T A A G G G G G A C C A A G G G G G G G G A G A A G A G G A G G G A A G C G A A A A GAAAAGGAGCCAAGGAAAAGACCAACCGAGAGGAAAGCAAT G GAAAAGGGCAACCAGAGGGAAAAGGAAGGGAAAAGCAAA GA GAGGGAAGGGAAGGAAGGAAGGAGGGGGCAGGAACAAGACAA G GAA A GAAA A G A A A A GAGGGAAGGGAAAAGAAAAAAGAAAAA $A G G G A A G G C C G G A A A A T T G G A G A A G A G G A G G G A G A A G G A G G G$ A A G G G G G GAA $A \operatorname{AGG} \mathrm{G} C \mathrm{C} A A A A G G G G A A G A A G A A G A A G C C G G G G$ GAAAAAAAGGGGGGGGGGCCGGGAGGGGAACCCCCCAAGGGG G GAACCCAAAGGAAGGCCAAGAAACCCAGAAAAAAAAAGGGG G GAGTAAGAGGAAAAACCGAAGAAAAAAAGGAAGGGGAGAAT A A A A G A A A A GAAAAAAAAGGAAAGAGAAGGGGAAAAAAAAAG G GAGAAAAGGGAACCCGGAAGGCAAAAACCCXAAAAGGAAGA G GAAGGGAAAAGAAGGAAAGACGGCCGAGGGAAAAAGGGGAG AAGGAGCCAAAGAAACGGAAGGGAAAGACCCCGGACGGAGGG

 C C A A C C G G A A G GAACCAAAAGGAAAAAGAAAAGGAAAA GAAA $A A G G G G G A G G A C A A G G A A A A A G A A A A A G G G G G A G A A A A G A G A$

G GAAAGGAAGCAGGGGCCGACAGATAAAAAAAAGGAGGAGCC G G G G G G A A C C G GAA $A \operatorname{GGGAGAGGGAATTAAAAGGGAGAACAGA}$ G G C C G G G G A A G G G G G G A A G GA GAG G GAGC CAA G G C C C C G G G G C C A A A A G G A A A A A A G GAAGGAAAAAAGGAAGGAAAA GAAAC C AAGGAAGGCCAAGGAAGGCCACAGAGAAAGGGGGAGAAAAGA G GAA A A A A A A A A G GAGAAGGGGGGAAGGCCCCAGGAAGCCGG TAAAAA A A $A \operatorname{A} G A G G G G C A C C G G A A G G A A C C A G G G C A G A A G G G$ AGGAAGAAAAAGCCACGGGGAAGCAACCCAAAACAGAACCAA A G A G A A G G G A G A G G G A G G A G G A A T A A A A G G G G G G A G A A A G G G A GACAGGAGGAAAAGGGGAGGAGGACGGGGGGAAGGAAGAGA
 C C G G A A A A C C A G G A G G G G CAGGGGAAGGCCAAAGGAGGAA GA A A G A A A A A A TAGGGAGAAGGCCAGAAGGGAAGGGGGACAGAA G GAA $A \operatorname{GGG} G C G G G A G G A G G G G G C C A A A A G G A A A A A G G G A A G G$ G GAA A G G G C C G G A A G GAA $A \operatorname{AGGGGGAGGAGGGACAGAGGAAAA}$ $C \subset A A G G A A A A G G G A G A A G C A A G G A A C G A G A G G G A A A A A C A G G$ G GAGGAGAAACCGAACGGCAGGAGAAAGGGGGAAAAAAAGAG G GAGAACCGGAAGGAAGGAAACAGGGGAACAGGGGGGGCAAA G G G GAAAAAGGGGGAGAAGGAAGAAGGGAGAAAGAACGACAA A A G G G G G G G G G G G G G G A A $\mathcal{G} A A A A G G G A G G G G G G A A G G G G A G A G$ G G G GAA A G G G G G G G G GAAAAGGAGGGGGCCGGAGGGGAAAAA G GCCGGAAGGGGCCGGTTAAGGAAAAAGGAAGGAGGGGCCGG G GAGAGGGAGCCAAAGGAGGAAGGAAAGGAGGAAAAAAAGCC $A C A G A G A A G G A A G G G G A A A A A A G G C C G G A A G A G A A A G G G G G A$ G GAGGCGAGACCAAGGGGGGCCAACCGGGGAGGAAGGGGGGG A GAGGGCCGGAAGGGAGGGGAAAAAAGAACGAAAAGGGGGAG $A G C C A G A A G G A G G A A A G G T T G G A G G A C C G A G G G G G G G G A A C C$ G G G G G GCCCCAACCGGCAAAAGGGAACAGGAGAGGGGGAAAC TACAGACCACAGGGAACCGAAAAGCCGGGGAAGGGGAGAACC AAAAAAGGAAACAGGAAGGAGGGGAAAGGGAACCCCGAAAAG GGCCAGCCAAAGAAAAAAAGAAGAGAAGGAAACCAGCCAAAA $C \subset G G G G G G G G C C A A C C G A C C A G G G A A A G A A G G A A A G G G C G G G$ AAACAACAGAAGAAAAGGGAAAAAGGAAGGAAGAGGGGCCGG CACCAAGGAGAGAGGGAAGGAAGGAGGGGACCGACCGGAAGA G G A A A A A A A A G GAACC G G T TAAAAAGGGGGGGGAAAAGGAAAA G GAA A G G G G G G GAACCAAGGAAGGAAAAGGAA GAGGGGGGGG A A GCAAAGAAGGAGAGAGAAGGGAGGAGAAAAGGAGCAAAAA $G G C C A G G A C A G G A A A A G G G A G G A C C C G G G G G G G G A G A A A A G A$ A G G A G G G A A C G A G A G G G A A G G A A GCXAGGGGGAAGACC G G CA
 AAAAGAAAGGGGAAAGGAAAAAAAAGAAGAGAGGCCBACAAA GAAGAAAGAGAGAAAGAAGGAAGGGAAGGGCAGGGGACAGBA AACCAAGGGAGAGAGGGAAAAAGAGGGGGGAAAAAAGGACAG TATTCCGGGAACAAAGGAGAGGGAGGAAATGGGGGGAGAGAG $A A G G G G A G G A G G A A G G G G C C G G G A G A G G A A A A A A G G G G G G A A$
 A A G A A G A A GA G A A A A A $\mathcal{A} G G G A A A A A G G G G G G G A G A A A A A A G G$ G GAA A GAACCAAAAGGAGGGGAGGAGAAGGCCAAGGGGAGCA A GA A A A A G G G G G GAA $A \operatorname{A} G A A A G A A G A A A G A A A G C A A G G A A G A A$ A A A G A A G G G G G G GACCCCGGAGGAAAGGAAGGCCACAGAGCA G G G G G G A A G G G GC C A A G A G GAAA A A A A G GAGAAAAA A GAA G G ACAAGAGGAAGGAAGGGGGGGGAGAAACGGAAGAGAAGACAA GAGGGAGGGGCCCCAGAAAAGAAAAAAAGAAGAACCAAGGCC C C G G C A A A G A G G A A A G C A G G G G G G G A G G G A A A G G A A G G G G A A
 C C G G A G A G G G G GCC C C G G G A G G A G G G G G G G A A G GCC G G A C A G ACAGATGAAAGAAAACGGGAAAGACAGGAAGGGGCCATAGAG G GAGGAGGGGAGGGAAAGCCGAGGACGGAAGAGATTAAAAAA GGAAGGAAAGAGGAAAAAAAAAGGAAGGGAGGAAAAAAACAC

AAGGCCGAAAGAAAAAGAGGAAAAAAAAGGAACCGGAGAAGA A GAGAACAAAAAAAAAGAAGGGACCCCAGGCCAGGGGGAAAA G GAGAAAGGGAAACAGAACACAAGGAAGACAAAGGAAGCC GA $C C G A G A G G G G A G A A G G G G A A G G G G G A G G C C G G A A G G A A G A A A$ AA G GAAAAAAGGAAAAAAAAAAGGCAAAAAAAGGGAAGAAAG C C G G A A C C G G G G G G GAA A CAAAC CAAAAAGGAGAA G GACAGAA G G A A A A A A A A A GAAAAAAG GAAGGGAAAGGAAACACGGGGGG GATTGAGGGGCCAAAAAAAACCGGGGGAAAGGGGGGAAAGAG A GCCGGGGCCAAAAAAAAGGAAGGAGGAGAGAGGAAGGAGCA A G G GAGAAGGAGGGGGACAGAAGGAAGACAGAGATTGGCCCC A A A A A A C C G A A A GAGGGGAAAAAAAGGGAGAA G GAA G GA G GA G
 A G G GCCCAGGGAAGAGGAGAACAAAAAAAAAAGAGGGAAAAC $G G A G G G A G G A A G G A G G A G G G G A A A G G G A A G G G A A A A C A A A A A$ A GAGAGAGCAAAGAGGAAAGGGAAGGGGAAGGAAGGAAAGAA G GAAAAGGGAAAGGGAGGGGAAGGGGCCGGAGGAGAGACAAA A GAGGAAAGAACGGGGGAAAGGAGAACCGAGAAGAGAGATGG G GAACCAAAAAACAAGGGCGCAGAAGAAGGCAAGGGAAAGAA A GAAGGAGACGAGGGGCAAATTAGGAGGAAAAAGGACAGGCA AAAAGAGGAAAGAGAGCAACAAAAAAAAGGCCAAGGC
$C G A G G G G A A G A A A C C G G G G G G G G G G A A A A A G A A A A A A A A G G$ G GAGGACCGGAAGGAGAGGGGGAAAGAAGGAAACAGAAGGAA G G GAGGGGAAGGGAAATTGAAAGGAGAAAGAAAGGAAAGAAA A A A A A A A G G GAAGATTACCCGGAAGGAACCCAGGAAGAAACA A G G G GACAAAAAACAAAGGACAAAGAGAGGGGAAGGAAAAAA
 A GAGAGAACCCAACGAAAGGGAAGGGAAAGGAGGAAGGAAAG GAGAGGGGGGGGGGACAAGAGGCCAGGAGGAGAAAAGAAABA AAACAAGGGGAAGGCCAAAAGAAACCGGAAAAAAAAGGGGAC A ATTAAAGAAAAAAAAAAAGGGGAAGGAAAACAGGAAAAACC A A C C C A A C A A A GA GAA A GAA G GAACCAA G GAA G G GA G G A G A A A G GACAGGGACCAAGGGGCCGATAGAAAGGGGCCAAAAGGAA GAGAAAGAAGGGAAAAGAGGGGAGAGCCGGGGAAGGGGAAAC A A G GAA A G G G A A A A A A A A A A A A G GAAAAGGGGCAA GAAAAA $A$ GACCGGAAGAGAGAACCCGGGGAGAAGGAAGAAAGGGAAAAC G G C C G G A A A A G G G G A A A A A A A A G G A A G GAA A G G G A A A A G G A A AAAAGGAAGGCCAAGGAAGGGGGGGGGGCCAAGGGGAAAAAA G G G G G G G GAAAAGGGGAAAAAAAACCGGAACCAATTGGAGAA
 G G G G G G G G A A C C C C G G A A A A G G G G G G G G A A A A A A G G A A A A G G G GAAAAGGGGCCAAAAAAGGAAAAGGGGGGGGGGGGGGAAAG C C G GCC $C$ G G G GAA $A \operatorname{GGG} \operatorname{GA} A C A T A A A G G A G G G A G G A C C A A G G G A$ G GAAGACCAAGAGAGGAACCAACAAGAAAGAGTTAAAAGGAA A A A A G A G A GAAA $A$ A $A$ CAGAAAGGAGGGAAAGGACAGGAACACA GAGAAGGAAGAGAGGAAGCGCAGAGGGGGGGGGGAACCAGAA C C A G A G G A A G G GA G GAC GACACAGGGAGGGCCCATAGGAACA GACCGAGGGAAAGGGAGGTTACAGGGAACCAATTGGGGGGGG G G G G A A A A A A G G G G G G A A G G G G G G A G G A C C C C G G G G G G G G A G GAAGACAGAGAGGGGGAACAAGCACCAGGAGAGAAGAGAGAC GAAGAGAAAAAAGGCCCCGGAGAAGGCAAAGGAGGAGAGGAA AA G GAAAAGGGAAAGGAAAGAAACAGAACGAAAAGGGAAAAG AA $A G G G G A A A A A A G A A A A G G G G G G A G C C A G A A A A A G A G G G G G$ A A G G G G G G A A G G C C A A A GAAC C CAAAAAAAGGGGGGAA G G G A G G GAGGACGAAGAGAGGGAACCCCGAGGAGAAGGGGACACAG A GAAAAGGAAAAGGAAAAAAAAGGAGAAAGAACCBGAGGGCC $A C A A A C G C C C A A G G G A G A G G G A G G C A G A A A G A G G G B A A G G G G$ A GACAAAAAGCAAGGGAACCCCAGGGAACCGGAGGGGGAAAA $A C G A A C A G G G A A G A A A A G A G G A A G A G G A A G A A A G A T C A A A G G$ A GAGGAAGCCGAGGGGCCGGAAGGCCAGGGGGAAGGAAAAGG

A GAGAGAAGGGGGGGGAAGGACAGCCAAGGAGAGAAGGAAGA
 GAAAGGAAAAAGGGGGAAAGAAAAAACCAGGAGAGAAAGGGG AAGACCGGAGGGAAGGAAAGAGACAAGAAAGGGGAAAGGGAG $G G C C G G A A G G A A A C C G A G A A G G A A A G G G A G C C A A G G A A G G G G$ A A G G G GAAAAAAGGGACCGGAGGGAGGGACAAGGGACAAACC AAAAGACACCGAAAAAGGGGCCCCGGAAAGGAGGCCAAGGAG A GAAAAAGAGGGAGAAAAGGAGAACAGAGGAAAAAAGGGGGG A A A A G G G G CAA A G G G G A A G GAA A G A A G G G GAGGAGACAAAA $A$ GGACGGGAAAAAGGGGCAAGACAGGGAAAAAAAAGGAAGAGA A G GA $\operatorname{G} A A C G G A A G G A A A G C C G A A G A G G G A G A G A G G G A A G A A A$ G GAGGGAAATAGACCCGGACAAGGGGGGGGAAGGGGAGGGGG A A G G G A A C G G G G G G A A G GAA A G A A A A G G G GAACAAAA AAAAA A A G GCCG $C$ G A G A A G G A A A A A A G G G G G GACAA A A G G G GAAAA A A A A G G A A G GAC $A$ GAGGGGAAGGGAAGAGAAAGGGGGAAGGAGAA GAGGAACCAAGGGGGGGGGGGGGGGGAAAAGGAAAAGGTTGG G GAACCAAGGAAAAAAAAAAGGAAGGAAGGCCCCGGGAAAGAG G G G G G G G G G G A A A A A A G G A A A C G A G GA GA GAA G G T T A G T T G A $G G A G G G G A G G A A G G G G G G A G G G A A A G G G T A G G A A G G A A A A G A$ C C G G G G G G C C A A A A G A G G G G A G G G G G G G A A G G G A G A G A A G G G A A A A A A G GAAGGGGAAAAAGGGGACAGAGCGAGGAAAAACAA C CAGAAGGGGAAAAAAAACCGGAGAAACAAGGAGGGGGAAAA G G A A A A A CAC GAGAGGAGAGCCCCCCGAGGGGCACAAACAAA G G G G G A C C G G G G G G G G G G G G C C A C G G A A C A GA G G A A G G C C C C GAAAAAGGAAACAGAGAAGGGAGGAGGGAAAACCGGGAAAAA G G G GAA $A \operatorname{GA} A G A A C G G C C T A G G A C G G A A G G A G A A G G G A A A A G$ G GAAAA $A \operatorname{A} A \operatorname{A} A \mathrm{~A} G A A A G G A A A A G G G G G A G G G A G A A A A A G G G G$ CAAAGGAAGGAGCCCCGAACAAAAAAAAGGGGGGACGGAGGG G G G G G G G G A C A A G G A G G G G G G G G A GAGGAAAAGGAAAAAAAA AAGGAAAGCCGAAGGAAAGGAAAAGGCCACAAGGCCGGAAAAA G GACGGAAAAGAGGGAAGAAGAGGAAAAAAGGGGGAAGCAGA AAGGGGCCAAACCCAAAAGAAAGAGAACGGGAAAACGAAGAC G G G GCCGGATAGGGAAGGAGGAGGAAAGAAGGAAAACCAA GA GAAAACACCCGGGGAGGGGGGGCCGAGACCAAGGGAAAGGGG G G A A A A G G G G T T G G G G A G G A A A A A GAAAA A A A A A C C G GAA $A$ A GAAGGGGGAGAGAAGGAAAACCGAGGCAAACCAAAAAAGGGG $C \subset C \subset A A G G A A G A G A A A G A A C A A A A G A G A C C A G A A G G A G A G G A$ A GAGGAAACCAGAGAGGGAGGGAATTAAGGGGGGGGGGCCBA G G G G A G G A G A A G G G G G G G A G A G G G G G C C G G C C G G G G G G G G G G A A G G G G A A G G G G G G GAGAGGGAGGCCCCAGGAGGAGGAGGAG G GAAGGCGAAAAACAGCAGGGAGAGGGACCAAGAGAAGAAGAG
 A ATTAGAAGGCCGGGGTAAAGGCAGGAAAGGGAAAAAAAAAA A A A A A A AC GAGACCAGAGGAAAACGAAAGGGAGGAAAAGGGA A G G G A A G A A G A G G A G G G G A G A G G G A A A A A A G G T T A G A G A G A A G GCCGGAGGAAAGGAAGGCAGCAAAAGGAACCGGGGAAAABC
 A GACCCAGGAGGGGCCGGAAAAAGAAGGGGAGAAGGAAAGAG G GCCGGGGGGGGGGGGGGAGGGAAGGAACCAAAAGGGAGAAA G GAGAACACCAAAAGGCGAGGAGAAACCGAGGCCTTGGAAAA $C \subset G G A A A G G G A G A G G G A A A A G G A A G G A A A A G G C C G G G G G G G A$ A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A G A C A G A G G G A G A G G G G G A A A C G A G G G A$
 A A G G G GAAGGCCGGGAAGAAGGAGCCAAGAGGCCCCAGAGGG GAAGCCGGGGGGAAAGGGCCAGAAGAGGAAGAGACAAGAAGA
 GAACGAGGGGAGGAGGAAGGAAAAAAAAGGAGGGGAGGAAAAG G G G GCCAAAACCGGCCAAAAAAGGAAAAAAGGGGGGAAGAAA G G G GCCAAGGGGCCGGCCCCAACCGGCCGGCCAAAAAAGAAA

G GAA A GAA $A$ G A A G GAAAAAAAAGGGGGGAAAAAATTGGGGCC A A G G G G G GCC G G G G A A G G A A G GCC G GCCCCCCAAGGGGCCCC C C G GCCAAAAGGCCGGAAGGGGGGAAAAAAGGGGAAGGAGAA G GAA A G G GAAAA $A \operatorname{A} G \mathrm{G} G A A A A C C A A A A G G G G G G G G A A G G B A A A$
 G GCCGGAAGGCCAACCAAGGGGTTAAGGAAAAAAGGAAGGGG A A G G G G G GCCAACCAAGGGGAAGGGGGGAAAAGGGGAAAAAA $G G A A C C G G A A A A G G A A A A G G A A G A G C G G A A G G A G G A G G A A G A$ G A A A A A A A G G A A A A A A A A G G A A A A A GAGAGTTCGGGAACAGA GAAGCCAAAAAAACGAAAGGAAGAGAAAGGCCGGAACCGGCC A A A A A A A A A A G G G GAAAAGGAACCGGAACCAAAA GGAAGGTT A A G G A A A A A A G G A A C CA A G G G G G G A A C C A A G G G G G G G G G G G A G G G G G G G G A GCCAAAATTAAGAGAGGCCAGGAAAGACCABAA C C A A A A A G T TAAAAA A A A G G A A A A A A G G A A GACC G G A G G G G A GAGGAGCAGAAAGGAAAAGGGGAAGGAGGAGGGGGGAAAAAA G G G GCCAAAAAGGAAAGGGGGGGAAGTTGGGGGGAAGGAGGG G GAACCACAGACAGGAAGGAAGGAGAGGGGAGCCGGGAAAAG GAGAGGACCAAGCCGAGAAAGGGGAAGACCAGGAGACBCABA AA $A G A A G G A A G G G G G G G A A A A A G G A G G G G A A A G G A G G G A A G A$ A A A A A G A G A G G G G G G G C C G GAGGGGGAAGGCAGBAAA
G GACGACGGAAAGGAAGAGGGAGGGAGGGCAAAGGAAAAGG A A A GCCAGGGGGGGACGGGGCAAGGGGGCCGGAAAAAAAGAG AAAACAGATTGAGAGAAAGGGGGGAGGGAGCCGAAAAAAGAA A GCCGAGAAAAAAGCCAATTGGAACCGAAGGGAAGGAGAGGG A A G G G A C G A G A A A GCCCAGGCAAAAAAGAGGGGGGAAAAA GA A G G GAGGGACAAAAGGAGGGAGAAAGAGAAAGGGGGGAAAAA GGCCCCGGAAAGACGGCAGAACGAGAGGGGGAGGAAAGAAGG A G G G G GACAAAACCGGGAAAACAAAAAACAACGGGGAGAAAG A GCAGAATGGAGGGGAAGACGGAAAGGACCAAGGAGAAGGGG C CAACCAAGGAGGGAAAAAGGAGGGACGGGAAAGGGCCAGAA G GAA A A A GCACCGACCGGAAAAGAGAGGGAAAGAGAGGAGAA AAGGAAAGGGGGGACCAAGGCCGGGGCCGGAAGGGGAAAAAA GAGAAAAAGGAAGGGGAAAGAGAGAAAAGAAGGAAGAAAAGG $G G T A G G A G G A A G A A G G G G A A G A G A G G G A C C C A A G G G G G A G G G$ GAGGGAGAGGGAGGAAAGGGGGAAAAAGAAAGAAAAAGAAAG C C A A A G A A G GAA $A \operatorname{GGG} G A A A A A A G A G G A G G C A A A G A G G G A G G A$ A G G GAACAGAA $A \operatorname{AA} A A A G G A G G G C A A A C C A A C A G G A G G A A G G G$ G GAAGGAGGACAGGATGACGCAGGGGAAAAGAAGAAGGAAAA

 G GAAAAAGAAGAGGAGCCAGGAGAAAGGAAAAAAGGGGAGAA GAGGCCGGGAGGGAGAGAAAAAAGAACCGGGGAACCCAAGCC C C G G A A A G A G G G A A G G G G G G A G A G A G A G G G G G A G A G G A G G G G A G G A A C G G G G G G G G A A G GAA $A \operatorname{AGGGGAGGGGCCGGGGAAAAAA}$ A GAGAGGAGGAAAAAAAAGGGGAGGGAGAAAAAAAAAAAAAGG
 A G G G G GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAAGACAGGAGAGCCAGGGAAAAGGCCAAAAA AAGAAGACCCGGAAGGTTAACCAACAAGGGGGAAAAAGACAA A GCCGGAAGAAGAGAACAGGAAGGGGAGAAGAGAAAAGGGGG
 G GAAAAAAGGGGGGAAGGGGACAAAAAAAAAAGGAAAAAAT T C CAA A GACACCCAGAGGGAAGGCAGGGGAAAAGGAGAGCCCC G G G G A A G G A A A A G A GAGGGAAAAACCAAACAAAAGAAATXAG $C \subset A C A G C A G G A G G G A G G A G G C A A A A A G G G A A G C A G G G G A A A A$ G GAGAACAAGGGGAAAAACCGGACAGAAAGACAAGGCCGGGA A A C C A G G A G A A A G G A GAGGGGGGGGGAAAGAGGAAACA G G G A AA $A$ A $\operatorname{G} G \mathrm{G}$ A ACCCAGGCAGATGAGGAAAAGAACAGAAAACCAA
 AAAAGGAACCGACCGGAAAAGGGGGGAAAGAGAAAGTTGGAC

GAAGAAGGACTTCCGGCCAAAGAGAGGGAAGGGAGGAGAGAG G GAAAAAGCCAAGGAAGAACAGAGGGGGCAAAAAGBAGAAGG CAGGGGAAAAAGCCGAGGGGGGAGGAAAAACCGBAACACGCC AAGGAAGGCCAAAAAGAGAAAACCCCAAAGGGGGAAGGAAAA G G G GACGGAAGGGGAAAAGGAAGGGGGAAACCGAGGAAAAAA A A A G G GAAAAAGGGAACAAGGGAGCCGAGGAAGAGAAGCCCG C CAGGGAGCCAGAAGGGAACGAAAGGAAGACCACAAAGACAA CAAAAAGAAAGGAAAAGAAGGACCGGAGAGGAAAAGAGAACC A G G GAGGGGACCGCAAGGAACAAAGAGAAAAAGAACGGGGGG GAGGGGAAAAGGCCAAGGGGAAAAAACCAAAAAAGGGGAAGG A A G G GAA A A A G G G G G GCCGGAACCAATTGCGAGAACGAA GAA $G G C C A A A A A A G G A A G G A G G G A G G G A C G G G G A A G A A G C C A A A A$ GGCCGAGACAAGAGAACAAAGAAAAGAGAAGGAAATAGAGAA C CAATTGGAAACGAAAGGGGAAGAGGGGGAGGCAA GAGAGGG GAAGGAAGAAAACCGGGGGAAAGGGAGGGGAAGGAACCAGAC A A GAGAGGCCAGGGGAAAGGAAAAGGGGCCAAGGAGACAAAAA GACAAGGGGGGGGGACAACAGACACCGGGAGGAAAAGABAAG GAAGGGGGAAAGAGAGGGAAGAAACCAAAGAAGGAAGACCAC GAGAGAGAAAGGGGGAAACAAGAAAAAAGGAAGGAACCACGA GAGAAAGGAAGGGGAAAAAACCAAGGGGAAGAGGCCAAGGGG G G G GCCGGGGGGAAAAAAGGCCGGGGGGGGAAACACAAGAAA AC GAGAGGAACCGGGGAACAGGGAAGAGAGAGGGAAAAAAAA GACCAGGGAACAAAAAAAGAGAAAGGGGACGGGGCCCCCCBA A G G G A A A A G G G G G G G G G A G A A G G G A A G G A T C C G G G G C C C G A A

 G GAAAAAAGGAACCGAGGGAGGAGGGCCGAGGCCGGGAGAGG A A A A A A A A A A A A A A A A A A G GAACCCCAAGGAAAAG GAAAAAA G GAA A G GAGGGAAAGAGGGAGAACCCCCGGACGGCCGAAAGA AAGGGGAAGAAAGAAAAGAGGGGAGGAAGGGGGGGAAAAAAA G G G G A A G G G G A A C C A A G G G A A A C C A A G G G GAAA A A A A A A G G G G G G G G GAATTGGGAGGCAGGGAAAGACAAAAAGGAAAAGGAA AAAAAGGGAAAGGAAAAGAAGAAAAGCCGAGGGAAAGAAACC GAGGGGACAAGGGGGGAAAACCGGCCGGGGAGGAAAAAAACAC
 AACCCCCCAGAAAAAAAGGGAAGAAAGAGAGGCCGAAAAAAG G GAAGGAAGACGAGGGAAAAAAGGGGGGAGCCAAGACCAAAAA AA G GAAAAAAAAAAGGAAAAAAAAAAAAGGGGGGCAGGGGGG GAGGAATAGAAGAAGGAACCAGGGAAGGGGAAAAAAGAAAGG A GCCGAAAAGCCAGAGAAGAAGAGTAAAGGAAAACCAAAGAG GAAAAAAAAAGGAAAGAGGAAAAAAAAACACAAGAAAAGGAA AAAGGAAGACGAAACCGGAATAAGCCAGGAAGACAAGGAAAA G G G GCCAGAAGGGAAGGGGGGGAAAAGGAGAGCCAAGGAGCC A A A A C CAAAAAACCCAAGAGAAAACAAAGGAACCCCGGGGGG G G G A G G A A G G G GAA $A \operatorname{G} \operatorname{A} A A C C G G A A G G T T A A G G C C G G G A A G C C$ A A GAAAGGAAAAGGAAGGAGAAGAGACCAAAACCGGCACCCC A ACC G GAACC G GTTTTGGTTCCAGAAAGAAACCAAAGECACA GGCCGAAAGGAAAAGGCCAAGAGAAAAACCAAAAGGAAGAAG A GAGAAAGAAAAGGGGGGGGAAAAGGAAAAGGAGGGCAAAGG AA $A$ A $G G C C A C C A G G A A A G A A G G G A G G A A A A G G A A C C A G G G G G$ AAAGGGAGAAGAAGGGAACAAAAAGGGGAAGAAAGAAAGGGG GGAAAAAAAGAGGACACCACGGGAGAACGAAACCGBAAAGAG G G G GCCGGGGGGAAGGAAACACGGAGGGACAGAAGGCCAGGA GAAAAAGGGGGGAAAGCAAGGAGGCAGAGGAAGAACAGAGGG $C \subset A G C C G A A A A C G G G A A A G G A A G G G G A G C C G G A A G G C C A A G G$ G G A A A A A A A G G A G A GACAAAGGAGAAGAGGCAAAGAAA GGGG
 A A A A A A A A ATGGCCGGCCGGAAAAGAAAAGAGAAAGAGCCGG AAAAAGGAAGCAGAAACCAGTAGGAAAAGGGGGGAGGGAAGA
 G G G G G C A A C C G A G G A A A G G A A G G G A A G G G G G G A G A G A A G G A G A T G A G GAA A G A A G GAAA A G GA A A A A A CA G G G G GAC C G GA GA A AAAAGACCCCGGCCGGAGAAAAAGGGGGAGGACCAGAGAAAG
 G GACACAGGGGAAACCGGCCGAAAGGACGGAAGAAAGGGGGG GAGAAGGAGAGGGGAGAGAAAAGGAAGGGAGGAGAGAAAAAG G G G G A A A A A A A A A A GAGAGAGA A A G G G G G G G G G GAA A A G G A G A GAGACGGGGGGGGAAAAGAAAGGGGGAACAGGAGGACAAGG G GAAAAAAAAACGGTAAGGGGGGGCCGAAACCGGGACAAAAA G GAGGGGAGGGAAAGGAGGGAAAAGGGAGGGGGAAAGAGGCC T T G G G A G A A G A A G A G G G A A G G G A A G G G G G G A A G G G A C C A A A $G$ G GCAAGACCCAACCGACGCCGGGGGGAAAAGGGGAAAAAAGG $C \subset A A G G A A A A G G G G C C C C A A A A G G G G A G G G A A G G A A G A A A G G$ G G GAACAGGACCAGAAGGGAAACACCGGAGGGCAAGAGAGAA GGAGCCAAAAAAGACAAAAGAAAGGAGGAAAAGGAAGGAGAA GAAA $A$ A A A A A A A A G A A G GAAAGGAGGCCAGAGAAGACCAAAG G G G A A C A A G G G G G GACAGGGCCGGAGGGGGAAGGGAGGAGAA $G G A A G A G A G G G G A G G G G G C G G G G G A G G A A G G G A G A A G A A A A A$ G G GAGAAACAGGAGAAGGAAAAAGAACCCCACGAAGG
$G C C G G G G C A C A G G A A A A A A G A A A G G C A G G A G G G G G G A C A G G$ AAGGCAAAAAAAAGAGGGGAGGGGAACAGACCAGAGAAAAAA AACAGGCCGGGGAGGGAGGGGGGAAAACAAAAGGAAGGAAGA A G GAAACCAGGGAAGGACAACAGAGGAACCGGAAAAAGACAT GCGAGGGAAAGGGGGGCCAAGAAAAAGAGGGGAAAAGGCCCC G GCAGGGGGGCCAAGGGGGGGAGGACAAGGCAGACCGAAGAG AATAGAAAGAAGGGGGACTAAGGAGGAAAAGGAGGGAAAGAG A G G G GAGACAGGAACCACCCAGGAAGACGGAAAAGGGGGGGG GAAAAAGGAGGGTAGAGGAACCAAAAGAGACAAGGGGAAAAG ACAAAACAATAGCCAGCAGGGAGGAAAAAAGGGGGGGGACAA GAGGAGAAAGGGGGAGAAGGCAAGGAAAGAGGAAGGAACAAA AA $A$ A $\operatorname{AgGGGGGGAGGAAAAAGAAAAGAGAAGGGAGAAAAAGGG}$ GGCAACCCAACCGAAAAAAAGGCCGAAGGGGGCCAGAAAAAG G G GAAA A GAAACAGGGAGGACAGGAGAAAGAGAACCAGGAGA GGCAAAAATTACAGAGGGAAAGGAAGGAAGGAGGAGCABAAA GACAAGGGGGAAAGCAGCACAAGACAAAGGGGAAGCGAAAAG GACCAAAGAAAAGAGGAAGGAGGGAAAAGAAACCGAAAAAGA GAAGGAAAAAGAGGAGGGACAAAGGGAGAAAAGGGAGGAAGC GAGGAGAAGGAAGAGAGGAAGGGAGGGCGAAGAABAABCCCC A A GACAGAGGGAAGACCAAGACGGGGGAAAGGGAGGGCAGAC A GCAACGCGACAAGGGAGGAGGAGAGGAGGTAAGGAAGAAAG A G A G A G A A A A A A G G G G G G A CACAGGGGGAGAGAGGAGAAAAC TAGAGAAAGGCAGGAAAAGGAGGAGGAGGGAGAAAAAAAAGA C C A G A G G G A A G G G G G G A A G G G G A G C A G G G A G G A A A G A G G G G G G GACGGGGGGGAAAAAAAGGCAAAAGGAAGGGGGGGAGACBA G GACAGAAGGGAAAAGGAGAAGGAAGAAAAACACGAAGAAAA AAAGAGGAAGGAGAGAGGGGAGAGGACCACACGAAGACAGAA G GAA $\operatorname{G}$ GAAAACCCAAGAAGGAAAAAAAAAAAAGAAGGGAGGG GAGGAACCAAAAGGAAAAAACCGGAAAAGAGGCCGGCCACAAA
 AACCGGCCAAGGGGGGAAAAGGCCGAAGAAAGACGAGAAAAC C C A G G GACAAGGGGGGAGAGCCGGAGGGAGGAAGAGAAAAGAG A A G G G G A G A $\mathcal{A} A G A C A A G G G G G G G G G G G G A A A A A A C C G G T X A A$ G G G GAAAAAAGGGGCCGGGGCCAAGGGGCCGGCCGGAAAAAA G GAA A GCCGGAAGGAAGGGGAAGAAACAGGCAGAGGCAGAAG $A C G G A C A G G A A A G G G G A G G G G G A G A A G G A A G G A G A G A G A A C C$ G G G G A A A A G G G G A C A A G GAACCGC GAAGAAGGAAAAGGAGAA $C C G G A A A G A G A G G G G G A G G G A A G G A G G A C A G G C C G G G G A A B G$ $C \subset G G G G A A G G G G G G A G C C A G G A A A G G A G A C A G A G A G A A A G A A$

A A A A A A G A A A A GAGGAGGGGAAGGGGAGGGGGAAGAAAAAAA G G GAA $\operatorname{ACC} C \subset C C G G G G C C G A A G G G G A A G A G G A G G G G A A G G A G$ GAACAAAACCGAAGAAAGAACAGGAAGGAGGGGGAAGGAA G G G G GAAGACAAGAGAGATAGGAGAAAAAAGGAGAGAGAAGAAG G G GAAA A G GAGGAAAGAAGAAAGGGGGAAGAGGGCAAA GAAC G G G A A G A A G A G G G G G G A G A G G C A G G G G G A G A G G G G G A G A G A A GAGGGGAAGAAAGGGGGAGGAGAAAGGAAAGGGGCAAAAGAA G G G G A A G G GACCGGGGGGGGGAAAAAAAAGAAAGAAAGAACC $C \subset C G G G A G A G A G C C A A C C G G G G G G G A A A A T G G A A G G G G G G G A$ AAGGGAGACCGGAGCCGAGAAGGAAACCAAAAAGGGGAGGAA A A GAA A ACGGAGGGCCGGGAAAAGAACAAGAAGGAGAAAAAA GCAGGGCCAAAACGGGGGAAAAAACCAGAGAGAGGAGAGAAA A A G G A G GAGGCCAAAAGGGGCCGGGGGATTAAGAACAAGGAA GAGGACGGCCGAGGAACCACGGGGAGGAGGGAAAAGAGAAGG ACAAAACCGAGGAGAGAAAAAACAGGGGAAGAAAGGCCCCCC AACCCAGGCAAAGAGAGAAGGGAACCACCCGAAGGAGGAAGA GAGCGGAAGGAAGAAGGGAGCCAAGGAAAGACAGAAACAGAG
 $G G A A C A G G A G G G G G A G G G G A A A A A A G A A C C A G A A G G A C A G A G$ C C G G A A A C G A G GAAAACACCGGGGGGGGCCGAAAA GAA G GA G G G G G G GAA $A \operatorname{GA} A G G C C A A A G G G G G A A G G A A G A A G C C A A G A A A$ G GAAAAGGAAGGGGGGGAAGCCAAGGGGCCGAGGAGGGAAGG A A A A A A G GCAAA $\operatorname{CAAAAGAACAGACAAAAGAGAGAGAGGGGGG}$
 A G G G G G G G A GAAAC CA A A G G CA A G GAA A A A G GAAAA A GAAA A AAAAAAAAAAAAAGGAGAAGCCGGAAGGAAAAAAAGAGGGGA A G G GCCGGAGAGAAGAGAAAGAGGGGAAAAAAAAAAGGAGAA
 GAAGGGAAGGGGGGGGGGGGACACACGAGGGAAGAGAAACAA A GAGAGAAGAAAAGAAAGAAGGGGGAAAAGGAAAAAGAAGAA A A G G A A A G A G G G CAGAGGGGCCAC GAAACAAAAAAAGAAGAC GACAGGGAGGAAAAAGAAAGAAGGAAAGGGAGGGGGAAAAAC AAAACCCCAGAGGGAAGAGAAAAGAGAAGGAGAGGAAAAACC

 G G G G A A G G G A A A G G A G G A C A A G G A G GA G G GA G G G A C C A G G G A G G G G GAGGCCAAAAAAGAAGAAGAAAAGGGAACCAAGGAAGG A G GAAAAAGGGGCCGGAAGGGGAAGAAAAAAGGGGGAACAAAA GAAACCGGGAAAAAAAAGACAGAAGGCAGAGAAAGAABAGAA ACGAAGAGCAGACACCAGAGACAGGAAAAAAGCCBGAAGGGG
 A A A C G GAGAAGGGAGAGAGGACGAGACAGGCAAGGAAAAAGG AAAAGGGGGGGGAGGAGGGGGGGGAAGGCCAAGGGAAGAACC GAAGGAGGAAGGAGAAGGCACAAAGGGGGAGAGAAAACAAAAA
 CACAGGAGAGGACAGAGGAGAGGAAAAAGAAAAAGAAAAAGBG G G G G A A G G G G A A A A G G G G A G A A C C G GAGGGAGGAA GA G GAA A GAGAAGAGGGGGAGAGGAAAGAAAAAAAGAAGAAGAAGAGAA A G GAGGCCAGCAGAAGCCGGGGAAAGGGAACAAAAAGGAGGG A A A A A A A A A A G G A A G G A A A G TAA $A \operatorname{AGGAGGGAGGAGGGGAGAG}$ GAAAAAAAGGAAAACCGAAGAGGGAAGGGAACAAACGAGGGG A GAGAGAAGGGGCCGGGGAAAAAGGAAAAGGGGAAGAABAAG GAACCGAGAGAGACAGCAGGGAGGGACAACAGGAACACAGGA ACAAAGAAAGAGAAAGATAGAAGGAGAGAAGAGGAAAAGAAA G GAGAGGGCAGGGGAAAAGGCCGGAAGGAAGAAAGGAGAGAG $G G A A G A G G G G A A G G G G A A A A G G G G G G G G G G A G A A A A G A A G A G$ GACCACCCAACCGGGGAAAAAGGGCCCCATGGGGGAGGAAAG A A G A G A A G G G A G G A C C G G G G G G A G A A G G G G A G A G G G G G A G A C GAAAGGCCAAGGAAGAGGGAGAAAGGAAACAAGGAAGAGGAA

AAGGAAAAAAAAGGAAAAAAAACCCCACGCCAACGAAAGGAG A G G A A A G G C C A G G G G A A G A GAC G GAA A A G GAAACAAAA G G C C A A G G G G GACCCCGGAGAGCAGGAAAAGGTTAGGGAAGGAAAA G GAGACACAGGGAAGGAAAAGAAAGGCCGAGGAGAAAGGGAG AGGGCCCCGGACAGACAGAAAAAAGGAAGGAAAAAGACGGGG A A A G G A A G G A A A G G C A A A A A G G G G G G C C G G A A A A A A A A C C G A
 AAGGCAAGGGAGAAAAGGAGGGAAAAAAGGGACCAAGGAGAG GAAAGGAAGGAAGGGAAAGAGAGGAAGGCCCCAAGGAACCAG GGCAAAGGAAGGAAAAAGAACAGGAACACCAGGGGGGGGGAG G G A A A G A A G G G G G G A A G G G G A A A A A G G G A A G G G G A C G G G G G G G GAA A G G G A A G GCCAGGGAAAGAGAGGGAACCAAAAAA GGGG G G A A G G G G G G A A A G G G G G A A A A T A G A T T A G A G G G A A G G G G A G A G G GAACCACAGAGAGGGGAAAGGAAAGGAAGAAGGAGAAAG ACGGCAGGGGAGGAAAGGGGCCAAAAAACCCCAAACAACCAA A G GAGGGAAAGAAAAAGGCGGGAAGAAAGAAAAAGAGAAAAA A A A ACCAGCCGAGACACAAAAAAAAAAAGGGGGGGGTXGGGG AAAGGACAAAAGGGGGGGAAAAAGAAAACCAAGGAGGAACAG G G G A A G A A A G G GCCAA G G G G GACCAAGAATCAAGGGAACAAA G GAGCCAGAGAAAGGAGGACGGAGAAGGGGAAAGAAC
AAAAAGGAAAGCCCAAGAAACGAGGGGAGGAGAGGGGGAGG A GCCGGACCAACAGAGAAAAACGGGGGGAAAGGGAACAAAAG G A G A G G A G G A G A G A G G G G C C G G T T A G G G G A G G G G A G G G C C G G G G G G A T G G G A G A G A A G A G A A A A GAGCGGCAGGGGA GAA G GA A A GAGGGGGATAAAAAAAAGGGGAACGAGGGGGAGAAAAAAAG AAGGCCGGAGGAGAGAGGATGGAGGGCCAGCCAGAAGGGGAG AAGACCGACAAACAAAGAAGGGGGGGAAGGGGAAAGGGAAGA A A G G G G G A A A G G G G A G A G G G A G G G G G A A C C G A A G A C A A G G G G A G G G A A G A A G G GAGAGGAAGGGAGACGGAGAAAAAAAAGGGA AA G GAACCAAGAAAGGAGAAAAGGAAGGGGAACCAAGGGGGG G G G A C C A G G GCA G G G G A G A A G A A G G A A A G G G GAA G G G G A A A A A A A A T TAA A GAAAAAATTAAGGAGGGGGGGAAAAGAAGAAGA ATACGGAAGGGGGGACGGAACCGGAGGACAGGAGGGAACAAG A A G G G A G G A A G G A A G G A A A A G G A C G G A A G G A A G A GAA G C C G G GACGCAGGAAAAAAGAGGGAGGAAGGGGAAAAGAGAAGTTCG A A A G A C G A A G A GA G A G A CAGGAAAGAAAAAATAAA GAGAGGG G GCCGGGGGCAGAAGGAAGAGAGGGGGGGGAGACAAAAGGCA $C C G G G G G G A A C C A G G G G G A G A G A G G G A G A A G A G G G G G G A A A T$
 C C G A A A G G G G G GAA $A \operatorname{GCC} C A G C A A G G G A A C G A G C X A A G G C C G G$ $A C C C A G A G G G A A A G G G A A A A A C G A A G A A G G G G G G G G A A A A G B$ AAAACCGAAGAGAAAAACAAGCTAGCGAAAGAGGGGCCAAGBG GAGGGGGAGGGAACAACCAAAGAAGGCCAAAAGAAG GAAAAC A G G G G G G G A A G GCCAGCCACAAGACCGGAAGGACAAAAAAAG A A G GAGGGAGGGCCAACCAAAGATGAAGAGAAGAAAAAACAA A GAA A A A GAGACACAGGGCCAAGAAGGAGGGGGGAAAAAACC G GCCGGGGGGAGGGAAGGAAAACCGGGGGGAGGGAGAGAA$G A$ A A A A A A A A GAGGAGGGAAAAGAACAAGGGAGAAAAAAAGGAA CAGGAACCGGGAAGAAAAGGGGAAAAGGAAGAAAAAAAAACA A A A A A A A ATTCCAGAAAAGACAAAAGGAGGAAGAAATA GGGG A A A A A A G G GAAAAGGGAAAAAAAACCGGCCAACCACGAAGGG AA $A$ A A G G G A A T TAAA A A A A A A A G G GGACAAGGGGGGAGAAAC A A G A A A A A A A C C A A A A A A A A G G A A A A A G G A C A G G A A G G G G A A AAAAGGCCGAGGAAACGAAAACCCAAGGAAAAGGGGGGCAAA G GAGAAAGAAGGGAAAGGCACCAAAAAAAAGGGGGGAGAGGG C C G G G GAGCAGGGGAAAAGGAAAAGGAAAACCGACCAAGGGG G G A G A GCCGGGGGGGGCCAAAGGAGAGAAGGAGAAGCAACGG A A T A A C G G A C G A G G G G G G G A A G A A GGGGAAAAGAAACAAA G G G G G GACAAAGAGGGAGAAGAGAGAGAGGCCCCAAAGGGAAAA

G G G G G GAACCAAAAAAAAAAGGGGAACCGGCCAAAAGGAAAA GAGAAAGGAGCAAGGGCACCGGGGAGAGAGAGAGAAAAAAGA $G G A G A G C C A G G G A G A A G G G G G G A A G G A G G A A A C C A A A G A G A A$ G G GAAACCGGCAAGAGAGCCGGAGAAGAAGAAGGGGAGAGAA GAGAGGGGACGGGGGGAAAAAGAAAACCAAAGGGAAAAGGGG G G G G G A G G A A G G G A G A A A A GAAA A A A G GACACAA A A A A G G G G G GCACCGGGGACGGAAAAGAGAGAGAAAACAACCAAGGCCBA G GAAAAAGGAAGGGGGCCGGACAACAAGGAAAAAAAAGAAAA A A A A A C G G G G A A A G A A GAA $A \operatorname{GCGGGGGGAGGCAAAGAAAAAGG}$ G G GAAAAGACGGAAGGGGGGAACCGGCCGGGGAAAGAAAGGA A A G G G A G G A A A A G GCCGGGGGGCCAAGGAAAAACAAGAAAGC
 A A G G A GA $\operatorname{A} G \mathrm{G}$ GAAAACCAGGGAACGGACCCCAAAAAAAAAAGG A C G G G A A G A A G G G GACA $A \operatorname{A} G C A G A G G G G G A A A A A A A G G G A G A G$ G GAAGGAAGAAAGGAGAGACCCGGGGAAGGAACCAAGABAAA AAGGCCGGATGAACGGAAGACCCCAACCGGAAGGAACCGGGG G G G G G G G G G G G G C C G G G G G G A A G G G A A A G G A G C C G G A A G G G G A G A A A A G G A G A A C G A A G GCCGGGAGGCAAAGGGGGAGACCAA A G G G C A A A G GAAAA A A G GAAA A A A A A G GAA A G G G GA GA G G G G
 GAGACAGGAAAGGAAGACGCGGGGAAGGCCGAGAAAGAGGGG
 G G G G G G C A G G A A G G G G G G G A A G C C A A A A G G G G G G G G A A G G G G G G G A G GAA $A \operatorname{GCC} C \mathrm{C} A \mathrm{~A} A A A A A A A A G G G G A G G G A G A A G G A A G G C C$
 C C G G GA GAGAAACACAGGAGAGCCCCCCGGAAAAGAAAGAAA AAAAGGAGGGGGGAAGGGAAAGGAGAGAAGAGCCGAAGAAGG G G GAA $A$ AAAACAACCGGAAGAGACCGGAAAAAAGGAGGGACGG A A G G A A A A A A G G G A A GAGGGAGAACCAGAAAAAGGGCAAACC A GAACCAAAAGGGGAGGGGGGGGAAACCCCAACAGAGGACBG A GAGAAAGAACAAAGGGAGGAAGAGGGGAACCGGGGAGAGAA A GAAAGCCGACCACGGAGAGGGGGGGAAGGGGAAGGGGAACC AAGGGGAAAACCAAGGGGAAAACCAAAAAAAAAAAGGAGAAA A A A A A ACAAACCGGAAAAGGGGCAAGAGAGAAGAAGCCAAAC G G G G G G A A A A A ACCAAAACCAAAAAAGGAAACBAAGAAGGCG GAAGAAGGGGCCGAAGAGAGGGGGAGGGGGGGGGCAGAAA$A A$ GACACCGGGCGGAAGGAAGAGGCCGGTTAAAAAAGGCAGAAG GAAGAGCCGACGAGCAAGAGCAAGAAAAGGGGGGAAAAAGCC GAAAACAGCCAAGGACAAGGAAGGAAAAAGAAACAGGGGGGG G G G G G GAAAGAAACCCGGGGGCAAGGGGGGGGCCGAAAGAAA G GAAAAAGACAAGAAGACGAAGGGGGAGACGGGGAAAAAAAA A A A A G A G A A A G GAACCGGAAGGGGCCCCAGGGAAAAAGAAAA A A G G G GAAAGGGAAAGGGGAAAAAAAAGGAGGGGCCAAAAAA AA $\mathrm{A} G \mathrm{G} G \mathrm{G} C \mathrm{C} A A C A A A A G G A A A G A A G G G G A G A A G G G G A G A G A A$ A A GA $\operatorname{A} G C C G G A G A G A A A A A A A A G G G G G G A A C C A A T T G G G G C C$
 A A A A A A A ACCCAAAAAAAAGGGCCAGGAGGCCCCCACCGGGAA GAAAGGAACCAGAAAGGGGAAAAAAAAAGGAACCGGAGAGAA AAAAAAAAGGGGGAAAAAGACCCCAGGAGAAGCCAGGAAAAC GAAAAAGAGACCGGAGGAAAGAGGAGAAAGCCAGAGGAAACA A A A G G G G GCCGGAGGAACGGTAACAAGGGGAAGA GAAGGGGG A GAGGGGAAAGAGGCCGGAAAACCAAGGGGCCAAAAGGAGAA A A G G G G A A A A $\mathcal{A} G G G G G G G A A A A G G G G G G A A A A C C A A A A G G G G$ AGACGGAGCAAGAAGGGAGGGGAAAGGGAGGACCAAGGGGAA G G G GAA $A \operatorname{GGAA} A A A C \subset A G A A G G G G G A G A G G A T G G G G G A A G A A$ A A A A A GAA $A \operatorname{GAA} A G A G A G A C G G A G A G A G A C C C C A G G A A G A A A$ A A A A T ACCAAAAACGGGAGGGGAGGAGGACGGAGAGAACCBG GACCAACCAAAAGGGACCAGAAGAAAGGGAGGGGAGAGAAAG $G G C A G G A C C A C C A G A A G G A A G G A A G A G G G G A A A A A A C C G G C C$

G G GAGGAAAAGGAACCAGAAAACACAGGGAAGAGAGGAGGCC GAAAA $A$ A A A $\mathcal{A} G G G G G A G A G G G G G G G A A G A A G A A C C G G G A G G G A$ C C A A A GAGTACAGGAGAGCCGGAAGAAGACGGCCGGGGAAAAG AAGGGGAGAAACGGGGAGAGAGGGGGAAAAAAGATTGACCGG A A G G A A G G GAGGACGGGAGGAGAGGAGAGAGGAAAAGGCAAA
 G G G GAA A GAGAAAGACAGCAGGGAAGGAACGAGGAAAAAAAA $A G C C A G G A G G C C A G G G G G A A A A G A G G A A A A A A G G G G G G A G A A$ A C A G A A G A A G A A C A G G G G A A G G G G A A A C G A A G A A G A G G G G A A A GAA A A G G G G G GAGAGGAGAAGGGAGAACAGGAAAGAAGGGG A A A A A A A A A A G G G G G G A A A GAA A A GAGGAGGGGGA GAAACAA G GAA $A \operatorname{GAAAAACCAAGGCCGGGGAAGGAAGGAAAAAAGGTTGG}$ A A G G A A G G G GCCGGGGGGCCGGGGAAGGCCAAGGAAGAAAGG AAAAAACCCCGGGGGGAGAAAACCCAAAGGGAGGAAAGAGAG GAGGGGGAGAAGCCAGAAAAAAACACAAGGAAACAGCCAGCA A G GAA A GA GAGGAACAGAGGGGGGGGACAAAGAAA GAAGGAG G GAGGGGAACGAAAAAGGGGGGAAGGAACCGGGGAAAGAGAG
 A G G G G A A TAG G A A A A G GAA AGGCCAAAAAAAAAAGGGGAGGG GAAAGAGGAGGGAGGGAAGACAAGGAGACAAGGGCCA
$G C C A A G G A G G A A G C C A A G G A A G G A A G G A A A A C C A A A A G A A A$ GCAACCAAAGGGGGAAAAACGGGGAGAAAAAAGAAAGBAGCAA A G GAAGGAGACCGGGGAACCAAAGAACAGGAAAAGACCAAGG ACAAGGAAGGCCGACCAAAGGAAGGGAAAAAAAAGGAAAAAA G G A A A A A A C A G A G G G G A A A G GAAAGGGGCCCAGGGAAA GA GA GAGAAAAAGGAACCGGGAAAGGCCGGAACCAAGGAGGAGAAA G G G GAAAGAAGGAAGGAAAAAGGAGAAAGAACAGAAAAGAGG A A A GACAA $A$ AAAAAGGAGAGAAGAAAAAAGGGGGGAAGAAAAA A A G G A A G G G G A A C G A G A A A A G G GAGAAAAAAGAG GAGAC GAA G G G G G G G G G GAAGGAAGGGGCCGAGAAGAAAACCAAAAAGAA
 A A A A A A G G G G G G G GAGGAGAAGGAGAGACACCGAAACCAGAC CAAAAAAAGAGGAGGGAGACGAAGAAGGGGGGGGAAAGAGAA G GAGGGAGAAGGGACCCCAGGGAAAAAGGGAAGGGGGGCAAA G G G G A A A A G G G G G G A A C C G GAGAGGGAGAAGGCCGGAA GA GA
 G GAA $A$ A $A C A A A A C A G G G G G G G G T A G A A G G G A A A A A G A G A A A A$ A A G GAA $A \operatorname{GGGA} G G A G G G A A G G A A G G A G A A C G A C C G G G G A A A G$ C C G G A A A A G G A A A A G G G G A A A A G A A GAGCAGAGCAAG G G GAA A A A G G G GAAAA $A \operatorname{A} G \mathrm{G} G A A C \subset A A G G G G G G G G G G A A G G G G A A G G A G$ A GAAAAGGACAAGAGGAGGGACAGGGAGAGGAGGAAAAAAAC ACACAGAGAGAGGGAGGAGGCAAGGGGGCCAGAGAGGGAAAA G G G G G GAGGGGGGAGAGAAGGGCACAAGAGGGGAAAAGAGBA $A G G G G G G G A G A G A G C A G A C C C C G A G G G G G G G G C C A A C C G G G G$ G GAACCCCCCAAGGAGAACAGGACAAGGGGGGGAAAGGGGGG C C G A G G G G G GCACCGGCAGAACAAAGCCGGAACAAGGGATAG A G GAA A A C G G G GAAACAGGGGAAGACAAGGGAAAACGGGGGG A GAA $\operatorname{G} A A A A G G A A G G A G G A A A A G A A A A C A A A A G G A G G A G G G G$ A A GAAAAAGAAAGGAAGGAGAAAGGAACAGAAACAAAGAGAG G GAAA ACCAAGGGGAGAGAAGGAGAACCGGGGGGGGGAAAAG A G A A C CACGGGGAAGCAGGGGGAAAAGGCCGGCCAGAAAA GA AA $\operatorname{G} A A A A C G G A C A C G G G G A A G G G G G G C C A G A C A A A A C G G G A C$ GAACGAGAGGGAAAACAGAGACGAAAGAACGGGAAACCAGAA ACGGGGGAAAAAGGGAAGAGAAGGAAAAGGAAAGAGAAGAAA G G A A A A G G A A G G G G A A A TAGGGGGGAGAAAAGAAA GAA GA G G G GAA A A G G G GCCGAAAAAGGAGAACCAACCAGAAAGAAGGGG C C G G G G G G A A G G G G G G G G A A A A G G G G A A G GAAAA A A A G G C A A G GAAAGAAGAGACAGAGAAAGAGTTAACCGGGACCGAAGAGAG $A G A G G A A A G G G G A G G G G G G G A A G G A A C A G G G G G A G G A A A C A A$

A G G G G G G GAAAGAACCAAAAGGGGCAAGAGCCAGCCGAGGGC GAAGACAGCCCAGAACAAGGAAAAGGGGGAGGGGGAGAGGGG
 GACCGGGGAAAAAAAAGGGAAAAAGAAGGAAGGGGGCAAGAG AACAAGAAAAAAGGACAGGGAACCAAGGAAAGAAAAAGAAAA G G GAACGCGCAGGAACCCGGAAGGAAGGAGGGGGAGAAAAAA C C G GA GAGAAAAAGACAGAAACAGGAGGAAAGGGGAAAAAAG A GAGGGGAGGGGAAAGCCAGAAAAAGGAGAAAAAAAAAGGGG G G A A G G G G G A G A C C A A G G A A G G G G G A G G G G A G G G A C A A G G C C $C C G G G A A G A G A A A A A G A G A A A A A G G G A A G G G A A A C C G G C A G A$ GAGGCAAAAAAAGGCCGGGAGGAGGGAAAAAAAAAGTAAAGG A GAGAA $A \operatorname{A} G \mathrm{G} \operatorname{A} A A C \subset G A G G G G A G G G A A A A G G A G G G G G G G G G G G$ $G G C C A G A A G G A A G A G A A A A G G G A A A G A A A A G G G G G A G A A A A A$
 G GAAAAAAGGAAAAAGGGAGAACCAGGGAAGGGACCGGGAAA
 G GAGGAGGCCGGAAAAAAGGAAGAAGGAGGGGGGAGACAAAA A GAGAAAAAAAAGGAAGGAGAAAACCAAAAGGAAGGAACACA G G G G G GAGAACCCCAGACAGAAAGGGAAGGCCAGAAAAAGGG G G G G G G C C G G G G G A G G G G A A G G G A G A G G G G G G A A A G A A A A A A GAGGGGGGGGGGAGCAGGGGAGAGAAGGAGGAGGGGGAGGGG G GAACCAAAAAAGGAAGGAGAAGGAAAGGGCCGAGGGGAGGG G G GA $\operatorname{A} G C C G G A G A A A A G G G A G G C C G G G A G G G A G G G A G A A G A G$ G A A A G A A A G G A G G G G G G G A G A A A A T A C C C C G G G A GAAA G G A G A GAAGGGGAGGGAAGACCACCCAAAAAAGAAAGGCCGACCAA G GAAAGAAGGAAGGCCGAGGAGACGGGGGGGGGGAAAAGGGG AAAGCCCCAAAATTAGCAGGCCAAGAAAAGAGGAGAGA GAAA AAAAAGGGAAAGGGACGCGGAACCGGAAAAAAGGAAGAAAGG AAGAAGAGACAGGAGGACAGCCAGAAAAGAGAGAAAAAGGCC AAAGGGAAAGACAGAAAAGGCCAAAAGGGGGAAGGAAGGGGA
 A G G G G G A G G GCAAGACAGGAGGGGCCAGGGGGGGCCCCACAC AAAGCCAAAAGGGGGGGGAAAAAAAAAAAGGGAAAAGGGGGG C C G A A C G G A A A A G A G G A A G GACAGAAGGAAAGCCAGAAGGAC AA $\mathrm{A} G A A \mathrm{~A} G \mathrm{G} A \mathrm{~A} C \mathrm{G} G \mathrm{C} C A A C A G A G A A A A A G G A A A A A A G G G G G G$ CAAAAAAACCGGGGCCGGGAAAAAAAGGGGAGAGGGGGAAAA AAGGAAGGGGAACCAAGAAGACGAGGAGGGAAAAAGAAAGAA A A G GAAAAAAGGGGGGGAAGGAGGGGAGGACCGACACCAATAA C C A G G G T A GAGGAAGAAAAGAGGGGGAAAAAAAACAGA GAAG G G G A T T C CA GCAA $\mathcal{C} A A A G A G A C C C C G A G G G G G G A G G G C A A A A C$ G G G A A A A C G A ACCAGGGGAAGAGGTTCCGAAAAAGGCCAAGAG A A A A A A A C G G A A G GAA $A \operatorname{GGAAGAAACAAGAGGGGGGGGGAACA}$ AACCAGACAGGAGGGGACAAGGAAGGCAACGGAACCGGGAGG G G A A G G G G A A G G G G GAGGCCCCAAGGGAAAAAGAGGAAAA GA G G G GAGAGAGAGAAAGGGAAGGAAAGAAGAACBAAAGGAGAA G G G A A A A A G G A G A G A T G GC C G GA GA A A A A A G G G G G GA G C C C C A GCC G G A A GAGAG GAGGACAAGCAGGGAGAGAGGGGAGAGAA G G GA $\operatorname{G} A \mathrm{~A}$ GAAAAGGAAAGGGCGGGAAAATTAGGGAACCAAAA A GAAAAAAAAGGTACCAAAAGGGGAAGGGGAAAAACGGAGAC G G G G G G T T A A G A A A G G G GCCAACCAAGGCAAAAAG GAAAA GA A TAAA A G G GAATAACCGGAAGAAAGGGGGGAGGGGGGAGAGG GAAGGGAGGGAAAAAAAAAAGGGACACAGGGAGGGGAGAA GA A G A C G G G G C C G G G G G A A A G G G G A A G C G G G A A G A G A A G G A A C C G GAAAGGGAAAAGGGGGGAAAGACGGAGAGGGGGAAGGAAAA GAAAGGGGAGCCGGAAGAAGCCAGAAACGGGGAAGAGGAGAG A A GAA $A \operatorname{G} G A A G G G A A G A A G G G G A A G G G G A A G G A A C C A G G G G G$ GAAAAGCAAACAAAGAGGGGAAGGCCGGAAGGAAGGAAGGAG G G A G A G G G A G A A A A A G A A G GAGGGAGGGACGGCCA GAAAAA G $A A G G C C A A A A C C G G G G A G G G A G G G C C A A G A C A G G G G G G G G G G$

G GAAAAGGGGAGCGAAACACCACAGGGGAGGGGGGACAAACC A A A A A ACCGGAAGAAGGGCCGGAGGAAAAAAAGGAAGAAAAA A GAGGACCGGAAGGAGGAAGGAGGGAAAACAAAAGGCCGGGG AAAGGAGAACGGAAAAGGGAAAGGGGGAGGAAGAAGGGAGGG G G G GAAAA $A \operatorname{AG}$ GAAAAGAAACACGAGGAAAAGGGGAAGAGGGG AAACGGGACCAACAGGGACCCCGAAAAAAAGGAGAAAAAAGG A A A G A A A A A G G A G A G G G G G A A G G A G GAAAAAGAAAAACAAAA $G G C C G A A A G G G G A A A G A A G A A A G G A G G A A A A G C C A A A A C A A A$ C C G G C C A C A A G A A G GAGGGAGGAGAGCCAGAGGAGAAGGGCC G G GACCGGGGAGAAAAAGGAAGGAAGGGAAACAGCCAAAAAG

 G GAAAGGAGGAAAAGGAAGAAAAAGAGACAAAGGAACCGGGG A A A A A A A A A GAGGGGGGGAAAAAGAAAACAGGACGGAGAAGAG G GAA A G G G A A A A G G GAGGAAACGGCCGGCCAAAAGGCCGGCC
 GACAGAGGGAAGCCAAGGTAGGGGGGAAAAGGAAGGGAAAAA G GAAAAGGAAAGGAGACAAAGGGAAACCGGGGGGAAGGAAGG $A G G G A A G G A G G A G G G G A G A A G G A A A A G A A G A G G G A G G G A A C C$ A A A G G G G G G G A G A G G G A A A A CAGACCAACCGGGGGGA
 CACCAAGGGGAAAGGCAAAAGGGAGAGGCAGGGAAAAGAGAA G G A A A GCCGGAAAGAAGGAGAGAGGGGGAAAAGAAGAAGAAA A A G G A G G G GA $A \operatorname{GGG} \operatorname{G} A A G G A A A G G G G G G A A A A G G G G A A A G G C C$ A G A A G GAACCACCCGAGGAAAGGGGAGGCCAGAAAGAAAAAG A A GACCAGAAAAAAGAGGGGGGAGCCCCAAGGAGGGGACCBG
 C C G A G G A A G G A C A A A A A A G G G G C C G G A A G G G G A A T TA G G G G G A A G G A A G G G GAACCGGAAAGAGAGGAGAAGAAGAAGAACAAA A G GACCAAGCAAGAGGGGAGAGCCGGAACCCCAGGAAGAAGG C CAA $A G G A A G A G A A A G A T A A G G A G G G A A G G A A A A G G G G G G T T$ G G G GAACCAGGGGGCGAGAGAGAAAGAGGAGAGGGAGAAGAG $A C G G A A A G A A G G G A G G A G A G A A C A G G A A C C C C G A A G G G G G A G$ G G C C G GAGGGGGAGCCAGACAGAGGAAGGGAGGAAAGGAGAA
 A A G G G GAACC $A \operatorname{CA} A G G G A A G G G A A A G G G G G G G A G G A A G A A C A G$ A GAA A A A A A G GAA $A \operatorname{AGGAGAGAGGAAAAGAGGAGGAGAATTAA}$ G GAGCAGGAAGGCCGAGGAGAAGGCAAAACAGAGAAAAGGGG G G G G A A G G A A A A G A GAAA $A \operatorname{AGGGGAGAACAAGGAAGGAAAAAC}$ A G G G G G G G A C G A A G GCAA $\mathcal{A} G A A A A A A G A A C C A A G G A G A G A G A G$ $A G C C A A A G G G A G A G A G G G A A G G G G G G A A A G G G G G A G G G A A A A$ A A A A A A A A $\mathcal{A} G G G G G A G G G A A G G G G A G G A C C A G A A A A A A C C B A$ AA $A G A A G G G G G A G G A A A G G G G G A A G A G G G G G G G G A A A A G G G G$
 A GAA $A \operatorname{GCA} G \mathrm{G} A \mathrm{~A} C \subset A A C \subset A A A A A A A G G G C C G G A A G G G G G G G G$ A G A G A C A G A C G G G G C C G G G A G A G G G G A A A A G G G GCCAA T T C C G G GAGGAAGAAAAAAAAGCAGAAATTAAAAGGGGGGGGAACC T TCCAGGAAGGGAAAGAGGAGAAAACGGGGGGCCAGAGAAGA GAAACCAAGGCCAGGGAACCAGGAAGGGGGACAAGGAGAGAG G GAAAGGAGGCACAGGGGAAGGGAAGAGAGGAGAGAACACAA C C C C G GA $\operatorname{CGGGGGGGAAAAAACCAGGAGAGGAACAAGAAGGAG}$ GA $A$ A A A A A $\mathcal{A} G G G G G A A G G G G G G A A G G C C A A G G G G G G A A G G A A$ C C A G G A C C C A G G C A G G A A A G G G A G A A C C G A A A G GCCAAC C G G $C \subset A A A A A G A A G A A A C A A A G G A G G G A A A A A A A G A A A G G G C C G G$ ACGGGAAGATAAAAGGGAGGGGCCCCGGAAGGAAAAAAGGGG A A A A G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A G G A A G G G G G G G A C C A A G G G G G G$ AAAAGGCCAAGGGGAAAAAAAAAAGGAACCGGGGGGAACCGG C CAAAAGGGAACCCAGGAAACCAATAAGGACAGAACGGAAAG G GAGGGAAGGAAGGGGCCGGAAGAGGCCAAACACGAAGAGAG

A G G GAA A ACAGAGGGCAAGAAGAAAGAAAAGAGAAGAGGGGA G G G A G A C C G A C C A A G G GAGGGGCAAGAGAAGAAA G GAAA GA GA G GAA $A \operatorname{GGA} G G A A A A G G G A C C G G G A C G G A A G G A C C G G G G A A G A$ $C \subset A A G G G G A C A A A G C A G A C C G G A A G A G A A A G G G G G G G A A A A G$ A A A A A A A A G GCCAA GGGAGGGAAGAGCCGGGAAAAAAAGAAA $G G A A G G A A G G G G G A G G G G A A A A G G G G A G G A G G G A G G A A G G G G$ A GAA $A$ A A A A A A G G G G G A A G GAAA A A A GACCGGGGA GAAAA G G GAACAAAGAGGAAAAAGGAAGAAAGGCCGGAAGAAACGGGCA A G GAGGAAAGACCACCCCAAAAGGAGAGAAAAAAGGGAGGAG AAAAGGAAGGGGGGAAGGGGGGAAGGAAAAGGCCGGGGAGAG G G A A G G G G A A A A G A A A A A G G G G G G G G G G G G G G T T G A A G C C C C $G G C C A A A A A G C C G G A A G G G G G G G A G A A G G A A A G A G G A A G G A A$ $A G G G A A G G A A A A G G A A A G G G C G A G G G A G G A G G G G A C G G G C G G$ A GAGAGACGAGGACAGAACAAGAAGGGACAAAGGGGAAAAGAG AAAAGGGGCCAAAAAAAAGGCAGGAGAAGGCCGGACCCCGGG

 GAGGGAGGAAACAAGGGGAAAGAGAAGGAGCAAATTACAAGG AGGAACGAACTAGGGAAAGGGGCCGAGACCGGGGCCACAGGG
 G G G G G G G GAAAGGGGGGGAGGAAAAAAAAGACAAGGAAAAG G G G A A A GAAGGGGGGTTCCCCAAAGGGAAGGGGACCCCCACAA A GAGCAGGGAGGACAAAAAAGGAGTTAGGGAAGGAGGACAAC $A G C C A G G A A C A G C A C G A G G G G G A G G G A A A G G A A G G G A G A G A G$ AGCCCCGGAACAAAAGAGGGAACCCAAGAGGAGAACCCGGGG G G G G GCGGAGAAAAACGACCGACCAGGGGAGCGAAGCCGGGG A GAGGGCGAAGAAAGGGAAAAGAGCAGGGGAACCAAAAAAAA G G G G A G A A GAAAAGAAGAGGGAGAGGTTAAAAAGACCCAGAA A GAGAAAAGGGGAGACAAGAAAAAGAAAGGGGAAGGGGAGAAA A A G G G G G G G G G G G G A A A A GAGA A A A A G GAGAAGGAAAAAAC C C C G G A A G G G G G G G G G G A A G G G G G G G G G A G G A A A A A A G A A G G A AAGAGGGGAAAAAGGAAGAGCCACAAGGAGCCCCAAAAGAAC G G G G G G G A A A A A G G A G A GAAAA A GAAAAGAAGGAG GA GA GAA A A C C G A G G A GCA $\mathcal{A} G G G C C A A A A A G G G G G C C A G A A C C G A G G G G$
 A A A G G G A A A A G G G G G G G G A GAACCGGGACAAAAAG GTTAA GA GAAGAGGGCCCCGGAAAAAAAGAAAAAAAGGAAAAAAGAAAA G GAAAAAAAAAACAAGAAAAGGCCGAAAGGCCGAAAGAAAGA C C C A A C G G A G G G G G C C A G G A A A A CAA G GAAAACCAAGACC GA A G A A A A A G GAGGAACCGGGAGGAAAAGGAGGAGGAGAAACAA AGCCAAAGGAGGGAAAGGCCAGAGAGAGAAGGCAGAAAGGAC GAAAGGAAAAGGAAGGGACCGGGAGGAAAGAAGGCAAAGGCC AAAAGAAAGGGGGGGGAAAAAAGGCCAGGGCCAGGAGGGGGA G G GAA A G G A A G G G G G G CAC CAA A G G GAA GAGGAAAAAA G GAC A A G G A A A A C C A A G GCC G A A GCCGGCCAAGGGGGGGGA GAAAA G G A G A A A A A A G G G G C A GAC C C G G G G GAGGGAAAAA G G G G G G A

 G G G A G G G G A G G G G G G G A A A G G G G A GATAA A A C G G G GAA A A A A G G G A A A A G G G A A G G G G G G C C G G G G G G A A C C G G G G G G A A G G C C GAAAGGAAGGAAAGAAGGGGAAGGAAAAAAAAGAGAAGAGAG G GAA A GAACCGGGGCAGAGGAATAAGAGAGAAGGGAGGGGGG C CAA A A G GAGAGACGAGACCAGAAGGAAGGAAGAAGAGACGA AAAAGGGAGAGGGGAAACAGGAAGGAAGAGGGAGGGCAAAGA $C \subset G G G G A G G G A G A A G A G A G G A A A A G G G G G G G A G A A A A G A G A C$ $A G C C A A A G A G G A G G A A G G G A A A C C G G G G A A A G G G G G G G A A A G$ A A A G G G G G T T G G G G C C G A A A A C G G G G C A CA $\mathcal{A} G G G A A G A A A A G$ A G GAGACCGGGGGAAGGGAACCAAAGAAGGCCAAAGAAAAAA G GAAAAAGAGAGGAGAATAGAAGAGAAAGGAAAAGGGGGGGG

A A A A A ACCGGAGGGAAGGAGGAGGGGGACCGGGGGGCAGGAT ACAAAGGGCCGGGGCCAGGGAAAGGGAAGGAGAAAAGAGAGA $G G A G G A C A G G A A G G G C G A A G G A A A G G A G G G A T G G A A C A A A G G$ A A G G G G G G G G G G GA $A G G G G G G A G A A A A A C C G G G G C C G G G G A A$ AACCAGAAGAGAAAGGAAAACGAAACGGCCAGCACAGGAGAG
 AACGGGAAGGCAAAATAAAAAAGGGACCGCAGGAGACAAAAA G G G G G G G G A G G G GAACAAGAGGGCAAGGGAAAGGGGAAAGAA GAAGGGCCGGCAGGGAGGGGAAGGAGAAAAAAAGAGGGAAAA A GAAGGAAAAACCCAGGAGAGGGGGGCAAAGGAACCAAATAG G GAGGACAGAGAGGCCGGGGAAGGGGGAGGAGAGCAAAAAGA G GAGAGGGAAAGAGAGAGGAAGAGGCGGGGAAAAGACAAGAA A A G G G GAGAAGGGGAAAAGGGGAGAAGGGGCCCCCCAAGGAA A A G GCCGGGGGGGGCAGGAGAGAAAGCAGGACGGGAGAGGAA G GAGGGGGGAGAATGGGGAGAGGGTTGGACAAAAGGGGGGCC GAGGGGAAAAAAAAAAAACCGACAAGAAAAGGAGAGAA G GAAA
 G GAGGAAAGGGGAAACAAAGAAGGGGAGCAGGGGAGGAAAAG AAGGCCAAGGAAAAAAGGACAGAAAAAAGAAACAGAGGGCAA G GAAGCACAAAGCCGGGGGGGCAAGGAAAGACGGCGC
AACGGAGAAGAAGGGGGAGACAGGGGAAGACAAGGGGGGCC
 A ACC CAG $\mathcal{C} G A G G G G G G A G A G A G G G A G G G G G A G A A G G A A A G A A$ A A GACCAAGAGGGGGGAGAGGAAGGAAGAAGGACAAGACAGG A GAG $\operatorname{A} G A C G A A G G A G G A A C A C C A A A A G G G G G G A A A A C C G G G G$ AAGGAAAAAAGGAAAAGGAAAAGGGGGGAACCGGAAAAGGGG AAAAAAGGCCAAGGAAGGGGAAAAAACCGGGGGGAAAAGGGG
 $G G A G A A G G A A G G G G G A A G A A A G G A G G A A G G G G A G G A G A C C A A$ GAACGACCGAGGAAGGCCAAAGGGAAAGGGGGGGAAGGGGGG A A G G G G G GCCAAAA $\mathcal{A} A G G G G A A A A C G A A G A G A G A G G G C C G G A G$ AGGGAAGGAGAAAGAAAAGGGGACAAGGAACCGGGGAAAGAG C C A G G G G G C G A G G A A GCAGGGGAGGAGAGAAAAAAAA GAGAA G G GAAGAAACAGGGAAGGAGAAGAAGACAAAACCCCAAAAGA G G G GAA A GAA $A \operatorname{AGGGAAAAGGAAAAAAGGGGGGAAAAAACCAC}$
 GGAACCGGAAAAAGGGGGAAAAAAAAGGGGAAGGGGAGAAAG AACCGGAAGGGGAAGGGGAAAAGGGGAAGGGGGGGGGGACAA
 A A G G G GAA $A \operatorname{G} G \mathrm{G}$ GAGGGGAAAGAAGGGAAGGAAAAAGGAGGAA CATAAGGGGAGACCACGGGAGAAACCAACAAGAGAAAGAAAA A A G GAAAGAAGGGGGACAGAAAGGGGATTTAGCGGGAGGCAA G GAAAGCCAAAAGACCGGCCGGAAGGAACCAAGGAAGGGGCA GAAAAACAAGAACCGGGAGAAGGACCAGCCGAAAGGGAAAGG C C G GAA $A \operatorname{GAAA} G G A C C G A A C A A A G A A A A A G A G G G A A A A G G T T$ G GAACCAAGGAAAAAAAGAAACGAGGGAGGGAAACCGAGGBA
 A A A A A A A A GACAGAGGCCAAGAGGGAGAAAACGGAAGGAGAG AC G G G GAGAAAATTGGGGCCCAGGGGCAAAAACCGGAAAGAA AACAGAAAAAAAAGCAGAAAGAGAAGAGGGAGACAGGGATTA GAAAAGAGCCGGCAAGAGGGAAATGGCCGGAAAAGGGGAGAA AAAAGGAAGGAACCAAGGCAAAGGAAGGGGAAAAGGGGAGAA
 AAAAGGACAGGGGAAAGGCCAGAGAAGGAGAACCGGGAGAAA AAAACCACAGGAGGGAAGAACCAGAAGAGACCCCGGGAAAGG A A A A A A A A A A A A A A GAAAAA $A$ AAAA $A A \operatorname{A} G G G G G G G A A A A G G G G$ TACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAAA A A G G A A G G GAA A A GAAGGAACAGGAAAACCGAGGGGGCAAAA $G G G G A A A A G G C A A G A G G A A G A A G G G G G A A G G G G C A A G A A A A A$

AAAAGGAAGGAACCGGGGGGGGAAAAAAGGGAGGAAAAGGGA A G G G A A G G A G G A A A G G G G A A A A G G G G G G A A C C A A C C A GA GAC $G G C A G C G A C C G G A G A A G A G G C G G G A C G A G G G G A A A A A G G G G G$ $C \subset C C A A C A A G A A A A C C G G A A A A G A A G G G G G G G C C A A G G A A A G$ GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACCAACA GAAA A A GAAAGGGAAAAAGAGAAGCCAGAGGGAGAAGGAACA A A G A A GA $A \operatorname{G} G \mathrm{G} A \subset C A G A C G A G G G A G G G G G G A G G G G G C C A G A A$ GAGGAAAGAGAGGGAAGGACCCCAGGCCCAGGAAGGAAAGAG AAGGGGAAAGAAGAAGAATACACCAAAAACAAGGAGAAAAGA AAGGAAGAGGGGGGAAAGGAACCAGGGGGGCCAAAACAAAAG C CA $A$ A G G G A A A A G GAACCAAGGCCAAGGAAAGGGGGAACAAA A A G GAAAGGAGGGGAGAGAGACAGAGGGACGAGAAAAAGGGG A A A A G A A G GAGATTCAGGGGGGAAAAGGTTAAAAAAGACCCC A A G G A A G A A ACCAACCTAAAGGGGGGAAGGAAAAAGGAACBG G G G GCATTGGAAGAGGACGCACAAAGAAAGTAAAAAGGGATT AAACAACCAAAAAAAAGGGGAAGGGGGACAAAGGGGAAAGAG
 A A A A A A A A G G G G G GCCGGAACCGGAAAAAACCAAGGGGAAGG A A A A A A A A A A A A A A A A A A A A A G GAAAAAAAACCAAGGGGAA A A A A A A A A A A A A A A A ACCA A GGCC GGAAGGAATTAAAA G GAA AAAAGGAAAAGGAAAAAAGGCCCCGGGGGGGGGGCCGACAGG G G G GACGGAAGGAAAAAAGCGGAGAGCCCCAAAGGAACAGAG
 AAGAAAAACCAACCGGGGCAAAAGAATTGGGAAAGAAAAGCC AGAAGGCCACAAGGAGGGAAGAAAGGAACAAGAAAGAAAGAA G G GA $\operatorname{l}$ A A A A A $\operatorname{A} G A A A A G G A A A G G G A A G G G G G G G G G G A A A G G G$ $C \subset G G G G A G G A G A A G A G G A A G A A G A G G C C C C G G A A A G G A G G G G$ GA $A$ A $A$ A $\operatorname{A} G G A A G G G G A C C G A A G G G G A G G G G G G G A G G G G A G A A$ AAAAAAGGAGAACCCCGGAGGGACAGAGGGAGGAGACAAGAG AAGGCGGAGGCCAGGGCACCCCCCGGGGGAGGGGAGAAAGAC G G G GCCAGAAACGAGGATAAAGGGAAAAAAAAGGCCGGGGGG AAGGGGAAGGAACCGGAACCGGGGAGGAGGAAAAAGAACCGG G GAAAA AAAGAAGAAACACAGAAGGAGGGGAACCGAAGAAAC G G TAACGGGGACAAAGACGGAAGGGGACAAGGCCAGAAGGGA ACCAGGAACCAGAAGGGGGGAGAAGGTTCCAAGGGAAAAAAA GAGAAAGGAGAAAAGGGCAAGGGGAAAAGACCGGAGGGGGGA G G G G A A A C G A A A G G G G A A G G G G G G GAGAAACCCC GAGAAAA G GAAGAAGGAAAAAAAAGGCAAGGAAGAGGGCAGGGAAGAAAA A GCCGAGGGGAAAGCCAAAAGGAAAACCAAAACCGGAGGGGA GACCAAAAAACCCCGGAACCAAGGAAGGGGCCAAAAAAGGAA AAGGGGGGCCGGAAAAGGAAAAGGCCGGCCAGAAGGGGAGAA A G A A A A G A G G A A G A GAGGGGAAAAGGCAAGAGGGCAAAAAAA GAAAAAGGAAAAGAAAGAAAAAAACAGAGGGGGGAAAAAGAG G GAAGGCAGAAGAGGGAAGGCCAGAAAGAAAGAGAGACACAG GAAAGGGGAACCGGAAGGCCGAGGGGACAGAAGAGGGGAAAA A GAGAGGGAAAAGGAAGGCCAAGGAACCGGAAGGCCCCGGAA C C G A G GAAAAGGCCAGCCGAGGAAGGGGCCGGGAAAGAAAGG
 AA G GAAAGCAGAAGAAGGGGCCAAGGGGCCAAGGAAAAGAAA A ACCAAAACCCCACAAGAGAAAAGCAGAGGAAGGGGACAAGAG G GCA C G A A A A G G G G A A G G G GAGAGAGAAGGACAAGAAAAGAA AAGGCAGGAGCCAAAAAAAAAGAAAAGAGGGAGATTGAAGAG
 $C \subset A G G G A A G A G G A A A A A A G G G G G A G A G A G G C A G G G G A A G G G G$ A GACGGGGGGAAGGGGAAGGGGAAAAACAGAACCAACAAAAG A G A A A A A G A A A G GACCGGGGGAGGCCAAAAAGAAAAAA AAAGG A A G G G GAAA A $A \operatorname{ACG} G A A A G A G A G A A C A G A G G G G A A G A G A C C A A$ A A G G C C A G G G A G G G A G G GA G G G G G C C A A T T A G A A A A A G A A G A AAGAGAAGAGGAACGGAGGGGAAAAAGGGAGGCCGGAGAAAG

GGCCGGAAGAAAGACAAAGGAGAAAAGGAAAAAAGGAAAAGA CAAACCAGGGAAAAAAGGGAAAAGGAAGGGAAGGAAGAAGAA C CAA A G G GAGCAGGGACAAGGAGGCAAAGGAAGGGGAGAAAA G GAGCCGAACAAGGAAAAAAAAGAGGGGGACACAAAGGAGGA G GAGAGCGAGGGGGGGGGGGGGGGAAGACAAAGGAACAAAGA G G GA $\operatorname{l} C A G A G A G G C G G A A A A A A A G G A G G A A G G A C G A G G A A G A$ A A GAAACCACGGGGAGGGAAGGACACGAGACACCCAAGTTGG1 GAGAGAGGGAAAAGGGAGAAGGAACCAAGGGGGAABAGGGGG GA $A \operatorname{GT} T A A C C G G G G G G A A A A G G G G C C G G G G A G A A G G G G A A G G$ $A G C C A A G A A A G G G G G G G G G A A G G G G G A G G G G A A A G A C A A A G G$
 A G G A G A G G A A G G G G G G G G G G G GCC $C$ G GAACCGGAAAAAAAGAA AAAGAAGGAACAGAGGGAACCCAAAATTCCGACCGGAGAAAA AACAGGGGAGAAGGGGGGAAAAGGGGGGGGCCGAAAAAGGGA AAAAAAAAAAGGCAGAAAAAAAGGAAGAAAAAAGGGGGGGAA GAAAACAGCCAAATGAAAGACAGCAAAAGGGGGGGAAGAAAAA CAAACCGACCGAAGCCGAAAGAAAAGGAAAACAAAAAGGGGG AACCCCAAGGAAAAAAGGGGAAAAGGAAGGCAAGGAGAAGCC AA $\operatorname{G} G \mathrm{G} G A C C C A G A A A A G G G G G C A A G G G G A A A G G G G G A A A G G G$ G G C C G G G G A A A A G G G G G G A G G A G G A A G G A GC C A A A A G
GAGAACCAAGGGGAAGGGGCCGAGGAAGGAATAACGGGGGG CAGAAGAGAAAAAGAGAAGAAGCCGGGGGAGAGACCGECAGG G G G G A A G A G G G GAGGATTCCGAAGGAAGGAATGAAAGAAACC
 C CAA $A \operatorname{GGG} G C C G G G G A A G A C A G G A G G A A G C C A G A A A G A A G G C C$ G GAAAAGGCAAAAAACCAGGGAAAAAGAGGGACCGACCAACC AACCACACGGCAGGACGAGGAGGGGGGAGAACCCAAAAAGAG G GCCAAGACAAGAGGAAGGGGCAACGGGATAAAGGGCCAAGG A G G G A G GAA $A C C A G A A G A A G A G G A A A A A A G G G A A G G C C A G C C$ G GAA A A $A$ A $A G G A G G A A A G A A T T G G G A A A G G G A A G G G G G C C A G$ G GAAAGGCAGAAGGAGAGGGAGCCCCGGAAGGAAGAAAAAGG $C \subset A G G G A C A G A A C A G G A A G A G A G G G A G A C C A A G G G A G A A G G G$
 $A C G G A A A A G G C C A A G G C A G A A A A A G C G G A G G G A A G A G G A G A G$ G G GAGGGGAGACAGGAGGACACGGCCCCGGAGAGCCGGGGCA G GAA $A \operatorname{GA} A \operatorname{A} A A A G A G G G G A A G G A C G G A A G G G A G G G A A A A A G G$ G G GAACGGAAACGGAAGGAAGGGGACAAAGAAAAACAAGGCC $C C G A C A A A G G A A G A G G C C A G G G G G G A G A C C A G G A G G G G A A A A$ AACCGGAAGGAAAGGAAGAAACGGGAAAAGAACAAGGGAAGG
 AAAAGGAGGGAAGGAAACGGAAAAGAGGAAGGGGAAAAAGGG G G A A G G A G G G G G G G A G G G G G G G C C G A A C A G G G G G G G A G G G A G AAAAGAAGGGGGGAAGGAAAAAGGGGGGAACCAGAAGACCGG G GAACCAAAAGAGGCCGGGGAAGGAAGGGGAAAAGGGGAGAC
 AA $A G A G A A G A G G G A A G G A A A C C G G C C A A A A C C A G G G A A G G A A$
 $C C G G G G G G A A A G A G G G G G A A G G A G G G G G A G A G A A G G G G G G A A$ A G GAACAAGGGAAAGGAAAAAAGGCCAAAAAGAGGGAGAACC GAAGGAGGCCAGAAAAAGAAAAGGCAAGAACAAAAAAGGGAT G G G G G G A A G G A A T T A A C C G G G G A A A CAAAAGGGAA GAA GAAA CAGGAGGGAAAGAGGGGGCCCCAGAGCAGACACAGAGAAAAG C C G GAA A ACCCAGCAGAAAAGGAATTAAAGCCAAAGAAGAAA AAAAAAGGAGGGGGAAGGGGCCAGCAGGGGGAAAGAGAAAAG $A C C A A A G A C C G G A A G G A A A A A A G G G G A A A A C C A G G G G G A G A G$
 GAAGAAAAAAGAGAGGGGAAAAAGAGGGGAAAGAAAAAGGGG A G T T G A G GAGAGAGGAGGAAAGAAAGAGGAGGAAAAAGAAAA AAGGAAAAGGCCAGAGCAAAAAGGACACGGGAAAAACAAAGG

A A A A GAAA A A G GAAGGAGAAAAAAGGGGGGAGAAAGAAACAG G GAACA $A \operatorname{A} A G G G G A G A G G A A G A G A A G A G G G A A A G G C A G G G G C C$ T T T T G G A GCCACCAGGAGACGGGGAAAGACGGGGAAACAAAA GAAGGGGGAAGGGGGGGGCCAGAAAAAAGAAAAAAAAAAAAG G GAACCAAACGAGGGAAGAAAGACAAGAGGGGGGAAAAAAGA C $G A A G G G G G A A A G G G G G A A A C A G G G G C C G G G G A A A A A A G G A A$ A A G G G G G G A A A A A A A A G G G G G G G G A A A A G G G GAAAACCACAA GGGGAAAACCGGCCCAGGGAAAAAAAGAGAAAAAGAAAGGGG G GAA $A \operatorname{GAAAAAGGAAAAACCGAAGGAGAAGGGAGGGGGGAAGG}$ GACCGAAGAGGAGGGGAGGGGGGGAGAAAGACGGAAGGGGGA G GAAGGAACAAAAAAACAGGCAGAGAGAGACAATGGGGAAAA G G G G GAGGACAAAAGAAAAGCCGGCCAGAGCCAAACAAAAGA
 ACAAGAAAAGGGATGGACAGGAAAGAAAAAGGAATTCCAAGA AAGGAAGGAAGGGGCCAAGGCCCCAAACGGGGAGAAAAGGGA CAAAAGAAGGAGAAAAAACCAGCCAGAAGAGAAAGGAAAAGA T TAAA A A GCAGGCCGAAAAAGGCCAAAGAAAGGGGAGCCCGG T TAA A GAAAAAGACGGAGGGCGGGAAAGGGACGAAAGAGAAA AAAAAGAGGAGAAAGAAAAAAAGAGAAAAGGGCCAGAAAGAA GAACGGAAGGAGGGAGAGGGACAAAGTAAAGGCCAAGGAAAG AAGAAAACGGAAAAAAAAAAAAAAGGAGGGCCAGAGACCCGA G G GAA A ACCCAAGGAGCAAAAAAAGAGGGAGGGAAGGGAAAG $A A C A G G G G G G A A G G G A G A A G A T A G G G A A A A G G G G A A G G A G A A$ A A G G A A G G A A C C G G C C G GAGCAGGAAGGGAGAGAAAA GAGAA G G A A A A A C GGCCAAAACCCCCCGGACACGGCCGAG GAA G GA A GACCAGGAGGAAAAAAGGGGGAAGAGGGAAGGAGGACCGGGA A G G G GAAAAACCAAAAAAGGAAAAGGAAGGGGGGGGGGAAGA
 A A G G A A A A C C A A A A G G G G G G A A G G G GCCGGAAGGAAAAAA G G A A A A G GCCGGAAGGGGGGAACCGGGGGGCCAAAACCTTAAGG $G G A A C C A A G G A A A A G G G G G G A A G G A A A A G G A A G G A A G G A A G B$ GGAAAAGGAAAAGGAGATGGGGCCAAGGAAAGAGGGGGCCAG A A G G G A A A G GA $A \operatorname{GGAA} A G A G A A G G A G A G G A C C A G A G G A G A A A$ $G G A A A A G A G A A A G G G A G A G A A G G G A A G G G A A G G A A A G G A C A G$ GAAGGAGGAAAAGGAAAAGGAGAGGGGACBACAGGGGGAGAA GA $A$ A $\operatorname{G} G A G C C A A G A G G G G G A G G G A G G G G A A A T C C G A G A A G G G$ GAAGCACGGGGGGGAAGGGGAGAAAGAAGGGAGGAAGGGGGA A GACAAGGAAAAAAAAAAGAGGCCAGAAGAGGAAAAGAAAAC G G G G A G A A G G A G C A A A A A A A G G G G A A G G G G A A A A C C A A G G A A G G G A A G G G A G A G G G G G A A G G G G A A GA G G A A A A G G G G C A G G A A G G GAGGAAGGAAGGCAGGAAAAGGTAAGCCGGCCAAGGGGAA
 G GAAAAAAGGACAAAAGGAAAGGAAAAGAAGAAACCTTGGGG A A GAGGCCAGAGGGAAAAGACCCCGGAAGGAAGGAAGGGGCC A A A A $\operatorname{A} G A A A A A G G G G G G G G G G A A A G G G C A A G G A A A A A G G B G A A$ A A A G G A G A CAA A A A G G G G G G G G G G G G A A C C C C C C ACC CAA A A $A C G A A A C G G A G A A G A G A C G G G G C C A A G G A A G G G G G G G G A G A A$ T T G G G G G A A G G A A G G G G G G G A GACCCA GAAAAGACCAGAGAA C CAGAGAAAGCCGAAGGAACAGGAGGAGAAACAAAAAAACAG A GAAAACCAAGAAGAAGGGAGGGGAACAGGAAGGAAGGGGCC GAAAAATTAAGGGGGGAAAAGGGAAAGGAAGGAACCAAAAAA AAAAAAGGGGAAAAGGAACCAAGGCCAAGGCCAAGGGGAGAA G G G G G G G G G G G A A G A G G A A A A A A A G GAAAAACAG G GAAAAAA AAAAGAAAGAGGGGGGGGGGAAGGAAAAGGGGGGAAAAAGCC GACCGGGGCAGGAGAAAAGAGGAGGGGGAGAGAAAGCCGGAA G G G G A A G A A G G A G G G A C A C C A G A G G G G G A G A A G G A C G G C C G G G G G GAGGACAAAGGGGGGGGGACCGGAAAGAAAAAGCAAAGG A A C C A G A G A A GAAAAGCAGACAAAGAGAAAGGAGAAAAAAAA A G GAAACAGGAAAACCGGGGACGGGGAGGGGAGGGGAAAAGA

A A A A G GAAGGAAAAGGGGAGGAAAACACGGCAAAAAGAAAGG G G G G C A A A G G G G A A G G G G A A A A G GCC G G G A A A G G G GA GAA $\mathcal{A} G$ GAGGAGGGGGGGAAAAGAAAGGAAAAGGCCGGGGAACAAAGG G G G GAAAGCAGGAAAGCCGGACAAAAGAGGCCCAACGAGAGA GAAAGGCCCCGGAAGAAAAAGGAAAAGGAAGAAAGGGGAAGA G GAAAACCGGGGGGAAAAAAAAAGGGAAGAAACCCAAGAGAA GAGAGGAGGACAAAGGAGAAAAAAGAGGTTAGAAAGAAAAGG
 G G G G A GAA $A \operatorname{G}$ GAAAAAAAACCGGAAGGCCAAAAGAAGGCCCAG CAGAAAAGGGGAAAAGAGGAAAAAGGCCAAAGAACCCCGGAG
 A A A G A A A A CCGGAGAGGAGAGGGAACGGAAAGAGAGAAGGGG G G A A A A A A A A G GA GAAAAATAGAAGAAGAAAAAAAAAAAGAG A A A A A A GAGGAGAACAAAAAGGAAGAAGAGGGAGAGAAGGAA A GAA $\operatorname{A} G A A A G C A A G A A A A G G G A A A A A A G A G G A A G A A A A G G G A$ GAACAACCGGAAAAAGAGGGGGGGCAAGCAGACCAACC GAAC AGCCGGGAAGAACCAGAAGGAAAGGAGGAACCAACCCCGGAG A A G A A C G G G G G A A G A A A G G G GAGGAGAGAAAAAA G GAAAGAAA A G GCCCAATAAGAAGGAGAACCGACAAGGGAAAGAGAAACGG GACCAACCGAAGAGAAGGGGGGAGCCACCCCCGGGGG
GAAGGGAAGCCAAGGAGAAGGGAAGTAGGGGGGCCAAAGGG A A A A A A G GAACCAAGAGGAAAGGGGGAGCCGGAGCCGGAGAA AAAGAAGGAGAGAAGAGGAAAAAACCAGAAGGGAAAAAAAAA GAAAAGAGGAAAAGGGCCGAGGGAGAAGAAGAAGGGAGAAGAG $G G G A A A A A A A G A G G G A G G A C C C G G G G A A A G A A G A C C G G A A G G$ G G G G G G G GCAACAAACGGGGTAGGAGGGCCAAAAAAACAAGA
 G GAGGAAGAAGAGAAAAAAGAGGAAGGGGAGAGGAAAAACBG G G A A C C G G G G A A G G A A GAGGAGGGGGGGAACCAA GAABCACC GGGGAAAGAAACGAGAAGCCCACCGGAAGGGGAAAGCCAAGB A G A G G G G A G G A G G G G G G A G G G A G G A C A G A G G A A A G G C C G G A A G GAGGAGGAAGAAAGGAACCGGCCGGAAAAAAAAGGAGAACC A GAAA A A G T T G G C C G G A GAGAGGGGAGGAACCCAGAAAAGAG G G G G G A A A G G G G A A G G C C G G C C A A G G G A CAAAA A A CA G C CA A GAAAAAGAAGGGAAAGAGAAAAAGAAAGAAGGACCCAGAAAG G G G GAA A G GAAAAGAAAACAGAGGCCGAGAGAGAGAAGAAGA A GACCAAGGGAAAAGAAAGGAAGAAAGAAAAAGGAGGGCAGA GGCCGGGGGAAGACAGAGAAAAAAAAGGACAAGGCACAAA GA A ACAGGAGGAGAGAGAAGGAGGATGGAGACCCGGGGGAAAGA
 AA $A G G A A A G G C A G A A A G G A C A A G G A G G G G G A A A G A A G G C C B A$ C C C C A C G C G G G A A A A A C A G GAAAAAAGGGGAGAAAACC G GAC AGCCAAAAAGGGGGAAAGAGGGGGGAAGGAAAGGGGGGAGAA G G A G A G A A A A A A A G A G G G G G G A A A GAAAGGAGAGGGGGTTAA C CAAAAAAAGCCGAAGAAGGGGAGAAGGAAAACCAAAAAAGG C CAA $A G G G A G A G A G A G A A A A A A A G A A A A C A A A A G G A A A A A G G$ GAGGGAGAAGAACCGGAAGGCCGGACAAAGAAGAAGGGAACA GGCCAAGGGGAAAAGACAGAGGCCGGAGGAAGAAGGCCAGAG ACAAAAAAAATTGGAAGGGGGGCCAAGGGGCCCCAACCAAGA A GCGGGGAAAGGAAGGGGAACCAAGGAAGATTACAGAAGGAA A A A A A G G G G G G G G GCAAAGAAGACGGAAAAAAAAGGGACACA CCAAAAGAACGGAGAGAAGGAAGAAAGGAAACAGAGGGAAAA
 GAGAGAAGGAGAGGAGAACAAAGGCAAAGACCAAAGAGCAGG A GAA A A G GAA $A \operatorname{AGGGAAAAAGGGAAGGGGAAAGAAGGAAGAAA}$ G G A A G A G G A C C A A A A G G G T T G G A CAAGGGAAACCCCAGAAAA G GCCGGAAAAAAGGCCCXAGAGCACCAGCCCCGGGAAGAAA



G G G GAAAAG A A GAGGGAGAAAAAAAGGGAAGGAAGAAGAGAA C C G GCCGGAAAAAACCCCGGGGGGTAGCGGGGGGAACAAGGG G G G GAGGGGGAAAAAAAAGAGGAGGGAAAGAGAAGAAAGGAA A A A GCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGGAGG A GAGCCGGGAAAATGAAGGAGGAAGGGGGGAAGAA GAA G G A A GAA G G G G C C G G A A G G G G A A G G G G A A G G A A GAG G G G G G G G A A G G A A A G G A A G G G GAGAGGAAGGAAAGGCAAAGAAAAGGGGAACAAG GGAAACAGAGGAAGCCAGCACCAAGAGGAAAAAACCAAAAAG GAAGGAAGAGAAGGCCGGAAAGCCAAGGAGAAAGACGGAGGA AAGACAGAGGGGGGGGAGGGAAGGGGAGGGGGGGAAGGGGGG
 A G G A A C G A A A G G G GCCGGCCCCGGAAGGCCAAGGGGAA G GAA A A A GAACCGGAACCAGAGTAAAAGACGGGGGAGGGAGAACAA GAGGCCGGAGAAACAAAAGGGAGAAGAAAGAAAAGGGGAGAA GAAACAGGGAGGGAGGGAAGAACAGAAAAGCCGAAGAGAAAG GGCCGACCGACGGGAAAAAAGAGGGAGAAGGACCGGGGAAAA
 A A T T A A GCGGAGGGAAAAGAGGACGGAGAAAGACCACACAAA A G G G G GAA $A \operatorname{GG} G A A G A A C C A G G G A C A A G G G A A A A A G A T A A A C C$ GAGGGGAAGGAAGGAAGGGGCAGGCCGAAGAGAAGGAAAAAA AACCGACCGAAAAAAAAGGACAGGAAGGGGCAAAAGAAACAA G GAA A GACAGGGAAAGAAACGGGGGGAAAAGAGAACAGAAAA G G G G A A A A $\mathcal{A} G G G G G A A A G G G G A G G C C A A A C G G G G A G C G G G G G$ G GACGAAAAAAAGGGAAAGGGAGGGGGGACATCAGAAAAAAA G G G G A G G G A A A A A A G A A G A A G G A G GACCGGGGAAA G G G G G A A G G G G C A A A A A G G G G G G G G G G G G G A A A G G G G G G A A A G G G G A A $G$ G G G G GAGAAAACCCGAAGGAACGAGAGAGGAGGGAAAAAAAA G G G G G G A A A A A A G G G G G G A GAGCCAACCGGAAGGCCGGAAAA G G G GACACAGAGAAAAACGGAGGAAGGGAAGGCCAAAGAAGA A GACGGGAAGAACCGGGGGGCCAAGGGGAAGGGGGAGGAAAA G G G A A G G G A A G G G A G G G A G A A C G A A GAGAGGGA GAA GA GA G A G GAGAGAAACGAGGGGGGAAGGAAGGAAGAAGGAAGAAAAAA A A GAAA A A A GACGACAAAGGGGGGGGCAAGAGGGGGAAGGAG AACCAGAAGAAGGGGGAGCCGGAAAAGAAGGGGGAAGGAAAA A A G G A A GAGAGGAAAAGGGGGGCCGGAAAAGGGGAAGAAAAG
 AAAAAAAAAAGGGGCCAAAGGAGGGAGGGGGAGAAAGGGGAA G G G GAAAAAAGAGAGACCAGAAGGAAGAAGAGGGGGAAAAGAA AACAAGAGCCGGAAAGAAAAAAAAAGGAGAGGAGAAAAAAAG G GCCGGAGAAGAAGAGAGAGGAAGGAAAGGGGGAGAAAAA G G $A$ AAAAGAGGAAAAGAGGCACAGGGGACGGAAAGAAGAGAAGAG G G G A A G A A A G G A A G G A G G C A G G A G G A A G G A A A A A G A G G A A G G AACCGGGAGGGGGAGGAAAAGGCCGGAAGGAAAAAAGGACAA GAAGGGCCAAGAGGAAAAGACCAGGAGGCAGGGGAGGAAACC A A G G A A C A G G A A G G A A A G A A G G A A G G A A A A A A G G GAAA G G G G
 AAAGGGAACCAAGGGAAGGGAGGGCAAAGGGAGAAAAAAACC A A G G G GA GACA A A A A C G G G GAC GACCAAAGAGGAAAGGGGGG GAAGAAGAGGAAGGCCAAAAGGCCGGGGGGGGAAAAAAAAAA G G A A A A G G G G T T G G G GAAGGAAAAAAAAAAAAGGAAAAAAAA C CAA $A \operatorname{GAA} G \mathrm{~A} A A C C G G A A C C A A A A G A A G G A G G G G G G G A A A A A$ A A A A G GGGCCAACCAGAGACGGCCGAGGCCGGAAAAAGAAGG
 G GAAAAGAGGAAGGAACCGGAGGGAAGAGGAAGGGGAAGGGG AAAAAACCAAGGGGGAGGAACCGAAAAACCCAGAGGAAAAGA G G G A G A A GCCAGAAGGGAGAGGAGGAGGGGGGAAAAAAGGAG GAGGGGGGAGGAGGCAGAGGGGGGAAAGCCAAGGCCCCGGGG A A G A A A G A A A G G A A A $\mathcal{A} A G G A A A G G A A A A A G G G G G A G G G A G G A$ AAAGAAGGAGAAGGGAAGGAAAAAAGGGGGAGCCGAGAGGCC

GAGGCCGGAGGAGGACGAGGCCACGGGGAAGGGGAAAAGGGG G GAACCAGAAGAGAAGAGGAAGAAGGGGGAAACCACAAAAAA A GAGGGGGAGGGAGGGGGAAGGGGAACCCAAAGAAAGGAAAA AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G A A A G G G A C G A A G C A G A G G G A A A A A A A A G G G G G A C$ A A A A GACAAGGAGGGGGAGGAAGGAAGGGGGGAAAAAAAAAA GAGAAGAGCCACAGAAGGGGGGAACCGGAAAAGGCCAAGGAG GAAAAGCAACAAAGGGAAAGGAAGGAACGGGAGGGGAGAGAC AA $A G A G G G A G G A A G A G A A G G G G A A G G A A G G C A G A G G G G G G C A$ CA $A \operatorname{GA} A G G G G G G A A A G A G G G A G G A A G G G A A G G A G A A A C A A G G$ AAAATAGGGGTTAAGGAAGGAAAAAAGAGGGGAGGGGGAGGG G G GAA A A GAGAAAGAGGGGAGGGGAAAAAGCACAGAAAAACC AC GAAAGGAAAAGGAAAAAACCGGGGAAAAAGAAGGAAAAAA A A A A GAGACAGGCCGAGAAAGGGGAAGAAGAACCAAGCAAAC
 G GAAAAACGAGGGGAGAGGAGGAACCAGGGGGGGAAAAAGAA

 GAAGAAAACAAAAAGGCCACAAGGGGAAGAAAGGAAGGAAAA AAAAAGCCGGGAAAAAAAGGAAGAAAGACAGGCCAGAGAGAT G G C A A A G G G G G A G A A G A A A GAGGGCCAGGGGAAAGGC
$C G G G G A A G G A A C A C A A A G G A G G G A A G A G A A G A A A A C C G G G G$ $A A C C C C A A A A A A C C A A G A A A A G G G A A G G G A G G G G A G A G A G G G$ A GAGAGGGGGGGAAAGAACAGGGGGGAAGGGGAAGGGBAAT$T$ CCGGAGGAGGCAAACCAAGGAAAAAAGGAAACAAAAAAGAAG GAAAAAGGGGGGGAAAAAAAGAAAGGCCAAAGCCGGGBAACC AAAAGGAAGGGGGGAAAAAAAAGGGGGGAACCAAAAGGCCAA AAAAGGAAAAGGGGGGGGGGGGAAAAAGAAGGGAGGAAAAGA ATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G G A G G G G G G A A G A C G GAGGGAGGAAGGGAGCCGGGGAAAAAAAA A A G G G G G G A A A A A A G G C C G G A A A A A A G G C C G G G G G GAA A G A A AA $A G G G G G G G G G G G G G A A A A A A C C G G A A C A G G A A G G A A A A A A$ G GAGCCAGGGGGGAGGGGCCGGGAAGGGGGAGAAGGGAGACC
 CA $A G A C C C G G G G A A G G G G C C A G G G G G A G C A A A G G A A A A A A G G$ A C A G A A A C G G A G A A C A A A G A G G A A A GA GA GAA G G G G G G G G A C CCGGGGGGAAAAAGCAGGCCAAAAAAAAGGGGGAAAAGCAGA $C C G G A A A G G G G A A A A G A G A G G G C C A G A A G G G G G G G G G A A A A G$ G G G G A A G G G A G G G G A A G GCCGGCCAAAAGGCAGAGGAACACA G G A A G A G A G G G A G G G G G G G G G G G A C C A G A A C C G G GAAA G G C C AAAAAAAGCAACCAAGAAAGGAAAGGGGGGAAGAGAAAAAAA GACAAGCCGGCCCCCCGGCAGGGGGGAAAAGAAACAAAAAGA GAAAAAAGGGCCAAGGCCCAGGAAAGGAGGAGGGAAGAAAAA C C GA G A G A A A A GAA A A G GAAGGAAGGGGGGAAGAAAGA GAAA G GAA $A \operatorname{GAAAAAGGAGGAAGGGCAGAGGAAAAAGGGAAAGAAGA}$ CAATAGAGAAAGGGAAGGAGGGCCTAAAGGAGACCCAGAGBA A A A A A GAAACACGGGGAGAAAAGAGGGGAAAGGGAAGGGGGG GGCCCCCAGGAAAGGGCAGAAACCGGAACCAAGGAAGGGAAA G GAA A G G GAAAAAAGGGGAAAAGGAAAAGGAAAAAAAA GAAA $A C G A G G A A A C G G G G G G A A G G G A A G A C G G A G A G A G A G A A A C B A$ A GAA A A GAAAGGGGAGGGGGAAACGGAAACGAAGGAAAAAAA
 A A A A A A G G C C A G G G A C A A G G T T G G A A G G G G A A A A C A A A G G A G AAGAAAGGGGAAGAAAAAGGGGCCAGAACCAAGAAAAGGGAA GAA A A A A A G GAGGGGAGACAAAAGGGAGGGGGGGGAAGAGAA AAAAGGGAGAGCGGAGAGAGGAGGGGAAAAAGGGGAAAAGAG A A G GCCGGGGCCAGGGAATAAAAAGGAAGGAAGGAGGAAA G G $G G G A C A A G G G A A G A G G G G A A A C A G G A A A G G A A A A A G G G G G G G$ $A A G G G G A A A G C C C A G A G G G A G A A G A A A G G G A A A G A A G G G G G A$

A A A A A GAAAGAGGAAACCAGTTAGACCAAGGGAAGGAAGAGA
 $G G A A A A G A A G A G G G G G G A G G C A A A G G A G A G A G A G G A A A A A G G$ AAGGCCGGGGAAAAGGGGCAAAGGGGGAAGGGAAGAACACCC G G G G G GAA $A$ GAAAAACAAAGAAAAGGGAAAGGATAAAACCTT A A A GAAAAAAAACCCCAGAGAAAGCAGGTTAAAACACCGGCA AAAAAAGGCCGGAAAACCAAAAAAACAAGGAGCAGAAGAGAA GAGGGGGGGGAAGGAAGGAAGGGGAAGGAACCAAGGGGAAGA C C G G G GAGGAAGGAAAGGAACAAAAGCAAGGAACACGAAGAG AAGGAGACAAGACCGACCGGGGAAGGAAAAAAAAAGAGAGAC G GAGCAAGGAGGAAGGGGGAAAAAGGGGAAAAGAAAAGGGGG C C G A C CA G G G G GACATGGAGCACACGCCAACAGGAAGAAAAA A A A G A A A A A A A A G GAA $A \operatorname{G} G A A C C G G A A G G G G A T G G A A A G A A A G$ G G G A A A G G A A G A A G G GAGC CA CAA GGCAGAAAGGCCAA G GA G A G GAAACCGAGGCAAGAGAGTAAAGAGGGAGCGCGGCCAAAAA AAACAAAGGAGGAACCAAAGGGAAGGCCGGACCAGGAAAACC GACACCAAAGGCAAGGAAGGAAAAAAGAGGAAGAAGAAAGCG AACAGGGGAACAAAAAAAGGAACCGGAAGGGAGAGACAAGCC CCCCGGAAAAAACCCGCGAAGGCAGGCCAAAGGGAAAAAAAA
 AAGGAAAAGGACGGAGAAGGGGAGGGAGGAAGCAAAAAGGGG G GAGAGAAAAAAAGGAGGGAAAGGAAGAGGGGGGGGAAAAAA C C G A C A A A C A G GAA A A GAGAGGGGGGAAGGCCGGAAGGAAAA G G G A C A A G A A A G G G A G A G G GAA $A \operatorname{GCC} C G G T T G G G G C C G G A G A A$
 GAA A GAGAAAAAAAAAAAGGAAAGGGAGGAAGAAGAAGAGAA GAAAGGGGCCAAGGCCGGAAGGGGGGAAGGGGAAGGGGGGCC AA A GAAGGAAGGAAAACCAAAAAAAAAAAACCAA GGGGGGGG A A A A G G G G G G G GAAGGCCGGCCGGGGAAGGGGAAAAAAAAGG AACCGGAAAAAAAAAAAACCAAGGAAGGGGCCGGAAAAGGAA AACCGGAAAAAAGGAAAACCAAGGAAAAAAGGAAAACCCCCC AA $A G A A A A A A A A G G G A A G G G G G G A A A A A A G G C C A A A A A A G G$

 AACCAAGGAAGGAAAAAAGGAAGGAAGGAGGGGGAAAAAGGG A A A A G G A A GACCAAACGGAAAAGGAGCAAGGGAAGGTAAC G G A G G G G GAAA A A GAAAGAAGGAAAAGGGGAAAAAA GAAACCCC G G G G G G G G G G G GC C G GAA $A \operatorname{GGGGGAAAAACCCCGGAACCGGGG}$ C C G GCCAAAAAAAACCGGGGGGAAAAGGCCGGAAAAGGAGAA A A A A A A C C G G G G G GCCGGCCAAGGGGCCAAAAAAGAAAAAAA A A A A A A G G A A G G G G G GCCGGAAGGGGAAGGAAGGGAAA G G G G G A A A A G G G GCCAAAAAAGGGGGGGAAAAACCAAAGA GGGGGGA G G G GAAAACCAGCCGGAGGAAGGGGGGGGGAGCCGGGGGGAA

 G G G G A G A A A A C C A A C C G G G G GAGGGGCCAAAAGGTTAAAGAG A G G A A G G G G G A G A A A A $\mathcal{A} G G G G G G G G G A A A A A G A A A A C A G G A G$ G GAGAAAGAAAGGGGAGGAAGGGAAGGAAAGAGAACAAAAAG A G GAACAGAAGGGCCAAAGGGGCCAGCCAGGGAACAAAAGAAA A A A A A A G G A A A CAA A G G GAGCAGAAAGAAAAGGAGAGAAAC C AAAAGGAAAAGGAGAAAACCGAAAGGAGAAAAAAGGCAAA GA GAGAGGGGGAGGAAAGGGAAAAGGGGAGGAAAGAAAACAGGG AAAACCAGGGGGCCATGGAAATGCAAGAAAAGGAGGCAAGCC AGCCGGAAAAAAGGGGAAAGTTAGAAGGAAGAGGGGAGAAAA

 G G A A A GA GAGCCCCGGAAGGAGAAAAAAGGAAGGCCGGGGCC C C CAC CAA G GAAGGAAAGCCCCGGAAAAAAAAAAGAAGAAAG AAGGGGGGAACCAAGCCCAAGGGGAAGAGAGGAAAAGGGGGG

G G G G GAAA $A$ G GAA $\operatorname{T} A \mathrm{~A}$ GAAAAGGGGCAGGAAAAAAGGAGCCGG A A A GCACAAGGGTAAGACCCGACCAGGAGGAGAGGAAACCCC G G T T T T G G A A A A A G G G A A A G G C G G GAGGGGAAAAC CA GAAAA C C G G G A GACCGAAGAGAAGGAAGAAACCGGAACCCAAAAAAA G GCGGGAAAAAGAGAAAGGGAGAAAAAAGGCACCAAAAGGGA GAAGCCGACGCCGAGGAGAGAAAGGGGGAGAAACGBAAGAAG AAAGAAAACCGAGGGGACCAAAGAGGAGGGCAAAAGAAAAGA A GAGAAGAAGAAGGGGAGGGGAGAAAGGAAAGAAAGAAGGAA G G G G G G G G A G G G C C A G G G G A A G A A A G A A GAAAAAAAC G G G G A A G G GAAGAACCACGGGGGGGAAAAGAAGGAGGGGGAAAAGAGG AAAAAAGGGGGACCGGAAAACAAAAGGAGGGAGGGACAAAAG $A G G G G G A G G G A G A A G A G G G G G G C C G A G G A A G A G G G G G A A A A A$ A A C C A A C C G A A A A A G G G G G A A A A GAAGAGGAACCGGGGAAA G $G G A G G G A G G G A A G A A A A A A G G A G G G A G A A A A C G G G A G A G G G G$ A GACGGAAGGAGAGAAGGTTAACCAGGGACGAAGCCGGGGAA GAAAAAAAGGGAGGGGGGAAAAAGGGGGGACCGGCAAAAGAA G G G GAAAAAAGGAAGAAAGGGGCCAAAAGGGGGGGAGAAAAG G G A A G G G G G GACGAAAAAAGAAAAGGAGGGAAAGAAGGAAGG G G G G G G A A GAAAAAGGAAGGGGGGAAAAAAGGAAAACCACAA AACCGGAAGGCCCCGGAAAAAACCAAGGAAGAGAGGG
GAGCCAAAAGGGGAGAAGGCCAAGACAGACCGGAACCAACC G G G G G A A A A A A C G G G G A A A GC CA GAAGAGGAAGGAAAA G GAC A A G G G G G G A G A A G G A A G G A G C A A G G A A G G A G G G G A A A A G G A A A A A G G G G A A G A A A A A G A T G A A A G G G G C C G G G G G G G A A A G G G A A GCA $\mathcal{A} G \mathrm{G} G \mathrm{G}$ GAAACCGGGAAGGGGAAACCGGGAGACAAGATAG G G GAGGGGACAGAACAAAGGACGGCCCAAAGAAAAGGAAAAA A G G GAGAAGAAAGAAAGGAAAAGGAGGGGGAGCAAGGACAGA A A G G A G G A CAGAGGGGAAGGAAGGGGGGGGGGAAAAABCACA A GCAGGCAGGAGCAAAGGGAGGAGCAGGAGAACAAAGAGAAG $G G A A G A A A C C A A A G G G G G A A G G A A A A C A G A A A C C A A G G A G A A$ A A A A G G G G G A G G A G A A A A $\mathcal{A} G A A G G G G C C A A G G G G G G A G A A G A$ AACCGGAAAAGGAAGAAAAGCCGGGAGAGAGAAGGGCCGGGG
 GAAAGGAACCAAAGGGGGGGTTGACGAAAGCAGAAAACAAGB A G G G A G GAGAGGGGAAAAGGGGAAAAAAAGAAAAAACABAAA $A G C A G G A A G G G G A G G G C A G A A A G G A A A A A G A A G A G C G G G G G G$ $C \subset C \subset G G A A G G G G A A A A G G A A G G G G G G G G A A G G A A C A G A A C G G$ ACAGAAACAGGGAGCCGGGGGGAAAAGGAAAAAAGGGAATAA A A GAA A CCAAAAAGGCCGGGGGGCCGGAAAGGAAAAGAAACAG
 $G G A A G A A A G A G A G G A A C C A A A G C A A A A A G G A G G G A A A A A A G G$ G GAAGGGGGGCCGGAATTGAAACACAGAAGGGACAAAAAAAA C C A A A A G G G G G GCAAA $\mathcal{A} G A A A A A G A C A A A A A A A A A G A C G C G G$ GAAAACGGAACCCAAAAGGAGCGCAAGGAAGGCCCCGGAGAG A G G A G GCCAAAAAAAAGGCACAGGAAGGAGGGGGAAAAGGCC GAGGGGCCCAGACCGGGAAAGGGAGAAGACGGAGGGCCAAGB C C G GAAAAAGGGGAAAGGCCGGAAAAACAAAGGGAGAGAAAA $C \subset A A G G G A C C C C A A C C G G A A G A G A G G G G G G A A G G G G A A A G G G$ GAAACAGAGGAGAAGAAGCCGGAAAAGGGGAAAAGGGGAAGA A A A A G G G A G A A A C C GAA A GAGCGGAAAAGAAGGAAA GGGGCC G G G G G GCCGGAGAGGAGGGGAAAAAGGAGGGGGGAGCACACA A G GAA A G A A $\operatorname{A} G \mathrm{G}$ GAAACGGGGAGAGAGAAAAACAAGGGAAAAAA G G A A $\mathcal{A} G G G G G G G A A G G G G A A G G A G G A G A A A A G A G A G A A A G A T$ A A G GACAGAAGGAGGGGAAAAAGGAAGGAGCCAAAAGAGGGG G GAGAAGAGAGGAAGGAGGGAAAAAGAAGGAAAGGAGAAAAA GAACCCAAAGAGAGAAAACCCCAAGGCCGGGGTTGAAAAAAA AAACAAGAGGGACAAACAAGGAAAGGAAGGGGGAGGGAAAAG A GCCAGGGACCCGGAAAAAGGGAACCGGAAAGAAAGAAAA G G $G G G G G G G G G G C C G G G G A A A A A A A A G G G G A A A A A A A G A G A G A A$

G GAAGGAGAGAGGAAAAGCAGGAAGGAAAACCGGACAGAGGA GAGAGAGAAAGAGGCCGGCCAAAAGGAAAAGGGGGGGGAGAA A GCAAACCAAAAAAAAGGGGGGCCAGGGGAAGAGGAGAAGAG G G G GCCGGGGAAAAAGAGGGCAAGAGAAAAAAGGAAGGGGGA A GAGGGAAACAAGAGAAAAAAGAGGGCCAACGAAAGGGGGGG A G G GAGCAAAGAGGAAGGCCAAGGGGAAAAGGAAAAAAAAAA G G G GAAAACCCCAAGGAAAAAAAACCGGCCGGAGGAGGAAGA GAGGAAGGAAAAAAAAACGAACGGGAGAAGAGAGAGAGAGAA A A G G A A G A A G CA A G A G G GAGAGAGCAAGAATTAAAAAACAAG A G G GAA A GAAGAGGGAACGAAAAGGAAGGGGGGGGGCCGGCC AAAGACGAAAGGGAGGAAAAAGGGGGCAGAGAAAGGAAAAAG $G G C C A A A G A G G G A A G G G G A A G G A G C C A G G G C C G A A A A A A G B A$ G G G G G A A C G G G G A G A A A A A $\mathcal{A} G G G G A A A A G A A G$
$11016000-9 G A G G A G C C A G A G G G G G A A G G G G G G A A G A A G A G C A$ AAGGAACCCCCCAAGGAGAGCCGGGAAGGGGGCCGGCAGAAA $C \subset A A A A G G G G A A G A G G G G C C G G A G G A G G C C G G A A A C G A A G A A$
 CAGAGGGAGGAAAGACAGAGCCGGAGGAGAAAAAGGGAAACA ACGAACGGACCAGGGAAAGGAAAAGAAGGGGGCCGGCCAAAA G G G G G A G G G G A G G G G G G G G G A A G A A GAGGGGATTG GAA G G A A A GAAAAAGAACCAGGAAAAAAGAACCAAAGGGCCGGCAAGAA GAAAGGAAAGGGGAAGAGGAGGAAGGCAGGACAGGGGGAGGG C C G G A G A A A C G A GA A A A A GAAGGAAAAACCAAGCAAAAAAA G GAGGAACCGGAACCCCGGAAAAGGGGTAGGCAAAAGTTAAAG A A A G A G G G A A A A C C A A G G A A A A A A A A TTCCCGGGGCCAGAGAA AAAGCAAGGAAGAAAACAAAAAGAAAAAGGCCAAAAAAAAGG G GAA $A \operatorname{GAAA} \operatorname{A} A A G G G G A A A A A A A G A A A G A G A G G A A A C A A G A A$ GAGGACGAAAAAACGGAAGGAAAACAGGAAAAGAA GAAGGGG A G A A G A GAGGAACCAAAAGGGGGAAGACGGAAAGAAAAAAGG G G G G G G A A G G A A A A G G G G G G GACCAAGGAAAAAAGAAAAAGAG G G A A A G A G A A C C C C G GAGGGGGGGGAGGAGAGCAAAAA GAAA AAAAGACAAGAAGGGGCCAAGGGAAGGGCCGGATGGAGAAAG A GAAGACCGAGAAACAAAGAAGGACATAAGCCAAAAGGAGGG GC G A G GAGGAGAAACCGAAGCAGGAACCGGGGAAGGGGCCAG C CAA A GCCGGAACAAAGGAAAAAGGAACAGAAAACAGA GAAA G G C A G G A A A A G G A G C G G A G A G G G G A A G GAA A G A G A G G A A A G G GAGGGAAAGAAGGGACCCAAGGAACCGAGATACCAGAACCGA $C \subset A A G A G A G G G G G A G G G G A G A C G G G G A A G G A A G G A A A A G A A A$ GAGGTAAGTTCAAAAGGGGGCAAAACGAGGCAAAAAGAAAGG AAAGGAGGAAGACCGGGAAAGGAAACAGAAAACCAAGAGAAA GAAAAGGGGACCGGGAAAAACCGGCCAGAAGAAGGAGGGGGA A G G G G G G G A A A G G G A A C C G G A A C C C A G GAGGGGGAA GAAA CA A ACCGCCACAAAAAAGAAAGGAGGAACCAAGAACAGAGGGGG CAGAAAGGAAGAACGAAGAGGAAGGGAAAGAAAGGGAGAGAA G G G G G GAA $A \operatorname{GCCA} A \mathrm{~A}$ GAAAAGAAGGGGAGAAAAGGACGAAGAG A A A A A A A A A A A A G GGGAAAACCGGAAGGCCAAGGAAAAAAAA G G A A A A A A A A T TA G G G CAA G G G G G A A TTTGGCAAAG G GAAAAA
 AAAAGGAGACAAAGAGGGCAGAAACCGGGGAAGAACAGGGGG A ACGAGCCAGACAAGGCGCCAGAACCAAAAGGCCGGAAAAAA AACCACAGCAAAGAGGAGGAAGGACAAAAAGGAGGGGACAAA
 G A A A A A A G A A A G A G G G G G A A G G G G A G G G A A A A G G A A G G G G G G G G G G G GAAGGAAGGGAGGAAAAAAGGGAACAGCCAGAAAAA G A G A A A G G G G GAGGGGACCGGGGGGAAGGAAAACAGGGACCCC G G G A A GA G A A C C G G A A C C A A A A A A G G G G G G G G A G TA G G G G A A A GCCCCAGAAGGAACCAAAGGGGGAGCCAAGGGGGGAAAAAA GACCAGAGGGAAAAGAAAGGAACCAAAGGGACCCGAGAAAGAA AAAAAGATCAGAAGAGCCGGGGGAACGAAAAAGGCCAGAAAA

A G GAGGAGGGGGAAAAGGGGAAAAACGGGGAAGAGGCCGGGG $G G A A A A C C G G G G A A G G A G A A A A A A G G A A G G A C G G A C C C A A A A$ GAGGAAAAAGGGAAAAAAAGAGAAGGAAAAAAACAAAAAGAA G GAAAAGGGGAGAGACAAGGAGGGAAGAAGAAAAAAGGAGGA G G GA GAAA $A$ AAACGAAAGAACCGGAGGGAAGAAAGGGGGAAA G GCCGGCCAAGGAAGAAGGAAAAAGAGACAAGGGGGAAGGBA G GAGAAGACCGAACGGCCGGAGGGCCACGAAAGGCCGAGAAG GAAGGAGGGGCCAACCGAGAAAACCCCCGGGGGACCAAAAGG GAAA A A G G A A G A A G G A G A A C G A A G G G A A G G GA GA G G G G A A G G GGAACCGGGGCCCCGGGAAAGAAAACCCGGCCAAAGAGAGAG GAGAAAAAAAAAGGCAGGGGCCGGAAAGGAAAAAGGGAGGGG AAAGAGCCCCCCCCGGAAGGAGGAAAGGGAAGGAGAAGGGAG
 $A G C A A C G G A A A A A A A A G G G G G G G A G G G G G G G G A A G G G G C C G G$ GAGGAAAGGGAAAAGGAAGGGGCCAAGGAAGAAACCCAAGAG $C \subset G A A G A A G G A A G A A A A A C C G G G G A A C C A A G G G G G G C C G G A A$ A A A A G A G G A A A A GA A G G G T T G G T T A A G G G G A A G A A A CA C C A G GAGGGGAAGAAGAAAAAAAGGGAGGACCAAGGAAAAAAGGGG G G G GAAGGAAGGAAAAGGCCAAAAGGAAAACCGGGGGGAAAA A A A A A A A ATTAAAAAACCAAAAGGGGGGAAGGGGGGGGGGGG1 A A G GAA A GCCAAAAAAAAGGGGGGAAAAGGGGAAAAGGAAAA GGCCAAAAGGAAAAGGCCGGAAAAAAGGGGAAGGAAGGCAAA G GAA A G G G G G G GAA $A \operatorname{G} G A A G G A A G G G G A A C C A A G G A A A G A G A G$ C CAACAAG GAGGGGAAAAGACCGAAAAAGGAAAACCGGGGGA A G G G A A G G GA GAAAAAAAAAAGACCGGAAGGGGAAGAGGAACA
 C G GA $\operatorname{l}$ A A G GAGAGGGGGGTAAAGGCCGAAAAAGAGGGAAAAG A A CAA $A \operatorname{GA} A G A A G G A G A G C C A G A G G G A A A G C C G A C C A A G G A G$ A A T T G G G G A A G G G GCCGAAAAAGAGGGGGAAGGGAGAAAGAG $G G C A G A A G A A A G A A G G A A G G A A G G A A A A A A A A G G G A A G A G A T$
 G G G G G G GAGGAGCCGGGGAAGGAAAAGGAACCAACCAAGGGG G $G A A G G G G G G A A A A A A G G G G A A G G G G G G G G A A A A A A G G A G C C$ G G G G C C G G G G G A A A G A G G G GAA A G G A G G A G A A G G A A G G A G A G A G G GAGCGAAAAAAGACCAACCAGGGAAAAGGAGAGGGCCAA A A A A A A A G G G A A G G A G A A GAA G GAAAAAGGAAA AAAGGAAAA
 A GAGAA $A \operatorname{AGGGGGGGGAAACAGGAAGGAAGAAGGGAAAGAGAA}$ GAGGACAAGGAAAAAGCCGGAAAAGGAAGGAAAAAAAAAGAG AAAA $A \operatorname{A}$ GAGAGAAAAGACAGGACAAAAGAGGGAGAGGGAAA GA A A G G C A A C G G G G A A T T G GAAGGCCGGGGAAGGGGGCGGAAAA G G G GAGAAAAAAGGAACCGGAAAAAGAAAAGAGGGGGAAACC AAAAGGAAGAGAAGGAAAGGAAAGAAAACCAGATGGAGAGAA A A A A G A GAGGAGGGAAGAAGGAGAAAGGGAAGAAGAAAAAAC AACCAGAAAAGGAAGGGAAAGAAAGGAAGGACGGCAGAAAGAG A A G G G G A A G G G G A A G G T T C C A A G G T T A A A A C C G G G GAA G G G G AAAAGGAAAAGGAAGGCCCCAAAAGGACAGGATACAGGGGAG A A C C G G A G G G G G G G A G G G G G C A C C G G A G G G G G G G A C A A A G A A G G G G G A A A A A G A A A A GACAAGGAAAAGGGGGGAAAAAA G GAC CAACAAGGAGGGCCCCGGAGGACACACAGAAGAGAAGAAGBA AACCAAGGGGGGAAGGTTCCGAGAAGACACCAAGCAAGACGG AGGGACCCAACCGGAAAGAAAGGAAGCACAAGGAA GAGAGAG A A A A G GAA A G A A C C G G GAGGCAGGAAAAGAGAGGGGGAAAAA G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A A A A G A A G A A C C G G A A G G G G G G G A G G A A A A C A$ $G G C C G A G G A A A A G G G G G G C C G G G C A T G A G G G G A A A G G A G A G A$ A GAAAGGACAAAGAGAAGGGGAAGGGAGAAAGACAACCAA GA ACAAAAGGAGGGACAGGGGGAACCAGAAGGAGAGGGGGGGCA G GAGAAAGCCAAAAAAGGAAGAAGCCGGCCGAAAAAAAAACC G G T TAAAAGGGGAAGGGGGGAACCGGAAAACCAGGGGAAGAG

AAACAAAGGAAGGGAAGGGGGGAAGGCCAGAGAAGGACAAAG A A G G G G G G A GCA $\operatorname{A} A A \operatorname{A} A A A G G C C A G A C G G A C A G A G G A G G G G A A$ AAGGGAAGGGCCGGACAGCCAAGAAAGACCAAAAAAGGBACC ACGGAAGGCAGGAAGGGGAAACAGAGGGCAAAGGGGGGGGGG A GAAAGGGAGAGGGCAACGGGGGAAAAGAAAAGAAGCAAAAA A A A A G G A A G G A A A A G G A G G G G G C C T T A A A G G G A A G G A G G G A G GAACGAAAAATACAGAAGAGCACACCCCCCGGGAGAACAGAG A A A A A A G G G G A A A A A A G G G GAGGGGGGGC CAAGGGGAGAAAC C C A A A A G A A A C C GAGAGGAAAAGAGAAGAAACAAAA GAAGGG TAGGAGAAGAAGAGGAAGAGAGAGGGAACCGGCAACAAGGGG A A G G G G G G A A A GAA A GAGAACCGGGGGAGGAAA GAGGC GA G G G G G A A C A G A G C A G G G G G G G G A G A A $\mathcal{A} G G A G G G G G G G G G G A A G A$ $A G C C A A G G G A G G G G A A A A G G G A A A G G G G A A C C C C A G G$
AATAGGAGAGAGGGAGAAACAGACAAAGGCGGAAGAAAAAG AAAAAGAACGCCGGAGAAAAGGCGGGGAAGACCAAAGBAGAA G GCC $C G G G G G G G G G G G A A A G G G C C A G A A A G A A A G G A A A G G G G$ A G G G A A GAGGCCGGAAAAAAAAGGCCAAAAGGCAAAACGGAG G G G G G G A G G G A G G G A A G G G GAA A G A A G GAAAA A G G G G G C C A A AAGGGGAAGAAGCAGAAAAGGAAGGGAAGAGACAGGCAGAGAG
 G GCCAA AGGGAACCTTAAGAATGGGATTAAAAGGGAAAAAGG GAGGGGAGGAGGAGAAGGGGAAAGGACAAGAAGGCCGGAGGG GAAAGGGGAAGGGCCCGGAAGGAAAAGGAAGGAGGACCAAAG CAGGAGAAACGAGGAAGGCCGGAGAAAAGGAACAGGGCAA G G GA GAAAAA $A$ A A A GAGGGGGAAGGAAAAGAAGAGAAAAGGACA G G GACGGAAAGAGGAGAAAGGAGAGAAAAAAGGGGGGGGAGAA AAAAGGGGGGAAGGACGGACGGAGACAGGGCCAGAGAAGGAA G G A A G G A A G G A G G G C C G G G G A G A G G G A A A G A A A G G A G A G G G G AAGGCCTTCCCCAAAAGGAAGGAGGAACGAGGGGATAAGGGG AAAGAGAAGGGAGGGAGAAAGGGAGGAAAAGGGGAAAAGGAA A A A A A A G G C C G G G G A A G G C C G G A A C CAA A GAAAAAAAAC A A A AAACACAAAAAAGACAGAAGGGGAGGGGGGGGAGGGAGAAAA G G G G G G G G G G A C G G G G G G G GAAAACGCCAGAAAA G G G G $A$ A A A A A
 GAGGAAAGAAGGAAAAGGCCCCAAGGAAAAGGGGAAAAGGAG AAAGAGGGAAAAAAAAGAGGAGAAAGAAAAAGGGAAAACCGG G GAAACAGAGATAAGGAAGGAAGAGGGGGGCAAAGGGGGAGG A GAGAAAGCGCCAACCGAGGGACCAAAAGGAAACCCGGACAG GAGGGGGGGAGGGGGGAGAAAAAAAAGAAAGGAAAAGGAAGG
 G G GACCGGGAGGGAATAGGGAAAAAGGGAAGGGGAGAAAGAC A A A A C C G A A A G G G GCCAACCAAGGGAGGAGGGAGGGGGAGGG CCAAAGAACCCAAAAGAAAAAGGAAAGGAAAAGGAAAGAAGA A GAA A GCCAAGGCCCCGGGGGGGGAAAAGGAAAAGGGGCAAC GAAA $A$ A A A G G GCAA A $\mathcal{A} G G G G G G G A A A G C A G G G A A A A A C A A G C C$ C A A A G G A A G A G G A G C A A G G G G G G G G G C C A G A A $\mathcal{A} A G G G G A G G G$
 GAA $A \operatorname{GAA} A \operatorname{A} G A A G G A A A A G G G G G G G A A A G G G G C C G G C G G G G G$ AAAACCAGAGGGAGGGAAGGAAAGAGACGGAAGAGACAGGGG G G C G G G A G A G A G G G G G T T G G G G G A G G A G A A A G GA G A A C C A A A A A GAA A A A A GAAAAGAGAGGACGCCCGGAAGGAAAAGGAAAG CCGGGGGAAAAAAGAACCGGAAAGCCCCAAAAAGAAAAAAGA G G G A A A A A C A G G G G G G A A G G G A G G A A G A T A A A A A A A A G G C A A $C \subset G G A G C C G A C C G A A A A G A C A A G G A A C C G G G G G G G A A A A G C A$ A A G G G A G G A A A GAC GAAAAAGGGGAACCCCAGACCCCC G GAA A G G A A A GAGGTTAAGGAGACGGAAGAAGGAGAAACAGGGGAA AA GAAAGAAGGAAGAGATAGAAAAAGCCAAAGAGAAGAGGAAA GAGGGAAGAAGAAAGGAAAAGGGGACAGGGAAAAAGAGGAAA AAGGAAGAAAGGGGGAGAACACAACAGGGGAAGAAAAAGGGG

AAGGAAAAGAAACAAGGAAAAAAAAGGAGAAAAAGAGAAAAA
 C CAGAAGGAACCACGGAGGAGGAAAACAAAGGAGCCGAGGAG G G G GATGGACGGAGGAGGAAGGGAAAAACGGGAAAAAAAAAA AAAGCCACAGAAGGGGCCGGGAAGACGGGAAAGGGGAAAAGA CAGGCCAAGGAAAGAGCAAAAGGAAAGAAAGGCAGGGAAAAG A ACC G G G G G G A GACAAGGAGGAAAAGACGAGGACAAGA GAAA $G G A A C C T A G G G G C C A G G G G G G G A A G G G G A G A A G G A A A A G G G G$ C C G G A A G G A G G G G A A A G G T A A G G A A A A A A G A G A A A A A G G G A G AAAAAAGAAGAAGGAGGGAGAAAAAAGGAAGGGGGGAAGGGG G G G G G GA $\operatorname{G} G A G G A A A G C C A G G G C A G G G G G G G A A G G G C C A A C A$ A GAAAGGAAGGAGAGGAAAAAGAGTTAAGGACAAGAGAAAAA A GACAAGGGAACAAAGAAAAAGGGGGCCGAGGCCTTCCAGAA A G G G A A C A G A C G A C G G G G A A A A G G GAA G GA GAA G G A G G G G A T G GAGAAGGAGCAGGCACCAGAAGACCGAAAGGGAGGGAGGGG GGCCATAGGAAGAACCGGAGAAGGGGGGAAGAAGAGGAAAAA AAA A G G G G G G A A A A A A GAGGGACAAC GAAGGAGGGGAAA GAC CACCAAGGGGGGAGGGAGCAGGGGGGAAAGAAAGGGGGAGAA GACCAAAAACGACCGGAAGGAAAAAGGAGACCGGAAAAGGCA C A G G A A G G A G C C G G G G A A G G A G T A A G A A A A G G A A C C A A G G A A AACGAGTAGGAGGAAGGAAGAGAAAGCCAAAGAGAAAAAAAC A GAGGAAAGACACATACCGGGGAAGGTTAAACACAAAGAACC AAAAGGGGGGGGAAAAAGTACAGAAGAAAGGGAGGACAAAAA G GAAGAGACCAGCCCAGGGAAAAAAGAAGGAGAGAAAGAGAG G G G G G GAAAGGAGGAAGGCAAGAAGAGGGGAGAAAAGGAAAG
 A A A A C A A A A G G G G G G G G G G GAAAAAAAAGGAAGAGGGGGAGTT
 A A A A C CACA GA A A A A A G GAAGAATTAACAAAAGAA GA GAA G G A GAA $A$ A $A G G G A A C G G G A A A C G G G G C C A G T A A C G G G A C A A G G G$ G G A A A A A A GAG GAAACGAAAGACCAAGAGAACGAAGGGAGAG A GAACCGGAAGAAAAGGGCAAAGAAAAAAGGGGGGGAGCCCG G GAGCGAAAAAGAACCAACGGGGGGGGGAACAGAGGAAAAGG A A A A G G G G A A A G A A A G G A G G A A C C A A G G G G A A C A A G T T A C A G C C GACCGAAAGGAAAAGGGAAAGGGGAAAACAAAACGGGGGG
 $C \subset A G C C A A A G A A A A G A A G A A G G A A A A G G A A A A G G A A A A G G G A$ GGCCAAGGAAGGGGGGCCCCAAAAGACCAGGGGGAACCGGAG G G A A C C G G A A A G A A A A A G G G G G A A A A G G A A G G G G A A G G A G G G A GAGAGGGGGGGAAAAAAAAGGAACCGGACAAGGGGCCGGTT A G G G G GACGGGGGACCGAACCAGAAGCACAACCCAAAGTTTT G A A A A A G G C A G A C A G G G A A G G G A G C A C A G A G A A A G G G G G G A G A GA GAAAGGGAGGAAAAAACGACAGGGAAGAAAGACGGAAGA G G G G A A A A CAG GCCGACCAAGGAGAGGAAGGAGGGGAAGGAA G G G G C C A A G G T T G G G G G G A A G G C C G G G G A G A G C A G G G A G A C A GACACCAGAGGGGGCAGGAGGAAACCAAACGGTTGAAAGGAA G G A A A A A A G G A A C C A A A A A G G G G G A A A A A A G G G G A A G G G G A A G GAAGGGACCGGAGGAAGAAAACCCCACGAAATTGGGAGAAA GAAGCAGAAGCAGGGGGACCGGGGGGAGAGAGCAAGAGAGAG A GCAAAGGAAGGAGGGAAAGCCCAGGGAGAAGGGAGGACAAA AAAGGGCCAAGAAAAACCGAAACCAGAGCCGGCCCAGACAAG $A G C C G G G G G G A A A A C C G G A A C C G G A G A G A G A G G G G A G G A A G A$ G G A A G G G G G A C G G G A C A G G A A A C C G G TA G A A C A GAC G GAA G A G GAAAAAAAGAGGGAGAGAAAAAACCGAGAGAGAAAAAGGGG CAAAGAAGACAGAAGGGGAAAAGGGGAAGGCCAGAGCGCAGA GAGGACAACAGAGGACGAAGGCGGAAGGGGAGAGAGAAGAAA G G G G A A A G GCGGGGAGAAAAAAGGGACCAAAAGGGGCCGGAG GAGGAAAATTAAAAGAACGGGAAATAGGGAAGCAAAAA G GAAA GAAAAACCCAGACCAAGGGGAAGGAAGGGACCCCGGAAGGCA

AGCCAAAGAACAAAAAGAGGCCGGAAAAAAGGCCAAAAGGAC A G A A A A A A A GCCGGCCGACAAGCCGGAAGGAGAAGAAGAGGA A GAGGAAGCATAAGAGGAGAAAAAAAGAACGAAGCAAGACGG A GACGGGGGGAAAAGAAGCCGGAGAAAGGAGCGACCAACAGG G GA A GAGAAGGGGGCCGGCCAACCGGAAGGGGGGATGAAAAA C C C C G GCCAGGAGAGGACAAGGGGGAAAAAGAAAAAAA GAAA A A A A T T A A GAAA A GAA $A$ A A A G G G G A GAGGGGAAGGCCGAAAAA A G G G G G G G GACCGGGAAAGGCCGGTAGGGAGGCCAGAAGAAA C C G G A A A A A GAGGGGGAGGAAAAGCCGGAGAAGGAAAAAAGA GAGAAGAAATCAAAAAAAGAAGGGAGAAAAACATGGAACCGG A A G GAAAAAAGGGGGGCCCCGGTTGGAAAAAAAAGGGGGCAG G G A A A A G G A GCGCCGGGAGGGGGGGGAAAAGGAAAAAA GAAT GAGGGGAAGAAGGAAGAAAAAGGGAAAGAAATGGBAA
AAAGGGAGAGCGGAAAAAAAGAGGGGGAACCGGAGAACAAA GGCCAAAACCAACCAAGGGGCAGGAGAACACAGAGGGAAAGB G GAA $A \operatorname{G} G A A A A A A G A A G A G G G G G A G G A A A A A A A G A A A A G A G G$ GGACCAGGAGAAAAAGACGAGGCCAAAAAGCCGGAAAATTGG A GCGAAGGCAGAGAACAACCACAAGGGGAAGGAGAACCAATT A A A A A A A A A A G G A A A A A GAACAAAAAGAGGAGAGGGAGCCGG
 GGCCAAGGGGGGAAAAACGGAGCCAGGAAGAGGAGGGGAAGA GACAGGAAAAGGAAAGCAAGGAGGACAGAGAGTTCAAGAAGG G G G GCCAAGGGGAGGAAACGACAAGGGGAAGGAAGAAAAGAA G G A G C C G G A A G GA G G G A G A G C C A A A G G G G G A A A A G G G G G G G G GAGGAACAGGGGCCAAGGAGAAGAAACCAGAAAAGGAGAAGBG A A G GA $A$ ACA $A \operatorname{A} G C C G G G G C C G A A G G G G A A G G A A A G G G A A G A G$ G GAA $A \operatorname{GAA} C A A G G G G C A G G G C A A G G G A A G G G G A G A A G A C C C C$ A A A G A GAA $A \operatorname{GGG} G C \subset A A G G A A A A G G A G G A A A A G A T C C G G A C G G$ G G G G A A A G A C G G A A G G G G G A A G G G G A A A G G G G A A G A G G A G A C $G G A A G G A G T A A A A A G G G A G A G A G G A G A C A A A A A A A T G G A G A A$ A A G G A A G G A A G G G G A A A A A G A A G G G G G G C G A G C C T T G A G G G G G G G GAGAAGGGAGACCGGAGGGCCGGAACCAGGAGAGAAAAA A A GAGGCCGAGAACAAGAAAAAGGAATTACCAGGAACAAAAC A GAAGGAACCAGGAGGGGCCAAGGAAGGGGAAGAGAGAAAAC T T G A G GAAA A A A A $\mathcal{A} A G G G A G G G G G A A A G A A C C A A A A G G A A G G$ $G G C C C C A A A A G G A A G G A A A A A A A A A A A A A A A A G G A A A A G G G G$ AACCGGGGAAGGAAGGCCAAGGAAAAGGAAAAGGGGAAGAAA A A A A A A G G G G A A G G G G A A G G G G G G C C G G G G G G C C G G C C G G G G GAGGGGACGGCCGGAAGGGAGGGGACAGGGGGAGAACAAAAG C CAAA G GCAAAAGGAAAAAGCCGAGAGGAAAAACGGGGAGAA A A A A G G G G G G A A G G G A A A G G A A G G G G G A GA $\mathcal{A} G G G G G G G A G A G$ GAGGAAGGCCAACCGGAGAGGGGGAAACGAAGAGAAGAGGCC A GAGAAAGAGGACAAGGAGAGAAGAGGGCAAACCACCCGGGG A A G A A A G G G G A A G G G G G G G A A G C A A GAGAGGAGGGGCAA GAA AAAAGGAGAAAAGGGGAAAAGGAAAAAGGGCCGGGGAGAAAA $A G C C G A G G A A G G G G G G G G A A G G G G G G A A G G A A G A A G G A A A A A$ GAGGGGAAAAAAAAGAACCCGAGGGGGGAGAAAGCCCAAAAA A A A A A A G G G GAGCAGGCAGGGGGGAAGGAGGGAAGGGGGAGA A A G G G G GAGGAAGGACAGGAGAGGAGCCGGAGAAGAGGAAGA G G GACCAGGGAGAAGAAAAGAAACGAGAGGACAAGAAGAGBA GAAA A A A GCCAAAGGGGAGGGGGGAGGGCCGGGAAGAGAAGA
 A A G G A A A A A A G GCGAACCCCAGGAGAGGAAGGCCGAGAACAA G GAGGACCAGCCAGGGGAGGGGAAGGGAAGCCGGGAGGGAGA C C G GAGGGAGGGAAAAAGTTGGAAGAAAGAAAAGAAAAAGAA AA $A G G G C C A C G G A A G A G G A A G G A G G G C A G G A A C C A A A A A A G G$ A A A G G G G G GA $A \operatorname{GGG} \operatorname{G} A A G G G G A A G G A G A G A A G A A G A G A G C A G G$ $G G A A G A G A G G A A A A G G G G A G A G G A A A A A C C G G G C G E A G G G G G$ G G G G G G G G A G G GACAGGGAGGGAGAAGGCCGGTTGGAACAAA

A A A A A A G G A A A A G GAAGGAAGGAAAAGGGAGAAACCAAAAGG A A G G G G G G A A C C G A A G G A G G G G G A A G G G G G A G A G C C A G C C G C GAGAAAAAAGAAAGCAGGAGGGGAGAAAGAGGGGAGAACCBG GAAAGGGGGAGAAGACAAGAAGGAGGGGAACAGACAGAAAAG GAAGGAAGAGGGGGGGGGAGGAGGGGGGCAAGCGAGGGACAA CACCAAGGAAGGAAAAGGAAAAGGAACCGAGGCCAAGGAABA C C G A A G A A A A G A GA G G A A A A G G G G A GAA GAGGGAAA GAA G C G AAAACCAGACGAGGCCGGCCGGGGGGAAGGGGGAAAGAGGAA A G G G G A A C GAA A G GAAAAAACCAAGAGAAGGGAAAAAGGGCC GAGGAAGAGAGAAGAAGGGGGGACACGGGAAAAGGGGGAAC G G G G GCCAGGAAAAAAGAGAGAAGGAACAGGAAGGAAGGAAGA G G G G C A A A A G A GA G G G A A GAGGAAGGCCGGAAAAG GAGAGAC G GAGGGACGGCAGGAAACAAGAGGGACCAAGAAAGGAGAGCA G G G G G A C A GACCC CA $\mathcal{C}$ C G GAAGGGGGAGAAACCAAAAGGCCAA G G G G G GCC C A G GAA A A A A G G GAGGAAGGGGAA GAA GA GAA G G GAAAGGGGAAGGAAAAAAGGAAGGGGGGGGGGGGGAAGAGGG AAAAAGGGGGAAAACCGAGGAGTACCGAAAAAACAGGBAAGA A A A A A A A A G GA A GAGAAGGGAACCGAGGAAAGCCAAAAAAGG $G G A G G G G A G G A A G G A A A A G A A A G G C C A A A G A G G A G A G A A A G A$ A G A G A TAGGGGGAAGGAACAGGGGGGAAATAACCAACCGCAC GAGAAGAGGGGGAGAGAAAAAAAGAGGAAGAAAGGCCAGAAA ACAGGAAGGGAAGGAAAAAGAGGAGGGGGGAGGGAGCACAGG GACAGAAAGCAGGAACGGAAAACCAAAAGGACCCGCGACCBG A GAA A G G G CAAA $A \operatorname{AGGGCCAAACGAGGCAAAAAGAGGGAGGCA}$ $A G C C G G A A G G A G G A G C A G G G G A G A A G A A G A A A G G A A A A G G G G$
 G G G GAA $A \operatorname{GGGGGC} C G G A A A A G G A G C G A A A A G G A A C A A A G G A G$
 GAGAAAAGGGAGGGGGGGAAGGAGGGGAGAGAGGCCAAAAGA G G G G GAG GAA $A \operatorname{AGGGAAAGGGAGAAGGGGGAGAAAAGAGAAGG}$ G G A A A A G G G C A G G G A G A A A A A A A A A G A A A A A A G GAAAA $A$ A G G A G GAGAGGAGGGAGGGGGGAGAATGAAGACAAAGGGGGGGGG AACCAAGAAGCACCGGGGCCAGCCAAGGAGAGGGGGAAGAGA A GAGCCAACAACAGAAGGCGCCGGGAGAGACCCCAAGGGGGG A A A A T T G G A A G G A A G G G G A A G G A A G G A A G G G G G G C C A A A A $G$ G $G G C A A G G G G G A G A A A G A G G G A G A G G G G A A G G G A C G A A G A A C A$ A GCA A G G G G G GAGGAAGGGAAGAGGGAGAGAAACGGAAAAAA G GAA $A \operatorname{A} A A G G A G G G G G G G G G T T G A G G A A G A A C A A G G C A G G G G$ GAAGGGGAAGGAAGCAAAAAGGAAAAAGAAGGAAAGAAACAT GAATAGCAAGAAAACAAGGAAAAAAAGGAGAGGGGGAAAA GA AA $A G A A A A A A G G G A A G G A A A G A A G G G C C G G A A A C A G G G T T$ CAGGGGAAAACCCAAACCAGGGGGAAAAAAGGAAGGAAAAAA G GAAGGAAGGGGAAGGCCCCAACCGAAAAGAAGGAAGGGGAA AAAAGGAAGGAAGGAACAAGGGGAATGGCCGGCCGGAACCGG A A A A A GA GAGCCGGAAAAAGGAAGCCAGAGGGGAAAACGGGC G G G G A G A G C A A G A A A A G G G G G G G G A A G G A A A A T T A G G G A G G A G GAAGGGGAGAAGAGAAGGAAAAAGAAAGGAGGGCCAAACAA
 C CAAAAGGGGCAAAGGAACCAGAAAACCGGAGGGAAGBAGCC $A G A C G G C A A A A C G G A G G G A A A A G G G A A A G G G G G G A A A A G G A G$ GAGGAAGAGGAAGGAGAAAAAAGGGGGGGGCCGGAAAAAAGG AAAGAAGGGGAGGCAGAAGGAAGGATAAAAAGAGCCGGAGAG
 $C \subset C A G C A G A A G G G G G G A G A A G G A G A G A G A C G A A A A A G A A A G G$ G GAGGAGGGAAAGAAAGGCAGGGAAGCCGGGGGGAAGAAGGG GACCGCCAGGGGAAAAGGAACAAAAAGAGGAAGGGAAAAGGG A A A G G A G A A A A A G A A $\mathcal{A} G G G G G G G G G G G G A A C C A A G G C A G G G G$ $A C G A A A G G C C G G A A G G A A A A G A A C A A G G A G G A C A G A A A B G G G$ T T G G A A A A A A A A A A A CAATAAC GAGAGGAAAAGACAGGAGAA

C CAAAGGGAAGGGAGATTACACGAGGAGGGGGAAAGGGAGAA CA $\operatorname{G} A C A A A C C G A C C G G G G G G C C A A G G A A A G C A G G G G G G A G A A$ C C A C A A GAAAAGCAGAATAGGGGGGGGGAAAAGGGAGGAAAA GAAAGAAACCGAGAAAGGGGGGGAGGAAGGGGGGAAAAAAAA AAAACCAAGGAAAACAAAGGAGCCGGGGCCAAGGACGAGGAAA ACAAGGGGAAAGCAAAAAAAAAAAAGGAGAGGGAAGAAACAA A A A C C G A G G G G G A A G G G G A C G G G G G G G G A A A A T T A A G G G G G G AAAAGGGAGGAGAGAAAAGGAACCAAAAGGGAGAGGACAGAG A G A A G GAG G G G G A A A A A A G GAGACTTAAAAGAGAAG GA GAA G AAGAAAGAGAAGAAACACGAGACCAAAGGGAAGGGGGGGGAG AAA A A G G G A A GAGAAAGGAAAAGAAAGGCAAGCGAAGGGGAG G GAACCGAAAGGGGAAGAGGCCAAAACCGGCCCCAAAAAAAA G G G G G G A A C C G G T T A A G G A C A A G G G G G G G G G G A A A A A
A G GAA A G A A A A A A C C G GAGGGAAAAGGGGAAAGGGAGAAA G AAGGGAGAAGAACGGGGAGAAGAAAAAGGAGGGGAAAGAAAG G GAAA A A A G GAGGAAAGGGAGGAGAGGGGAACGAAGAAAGAA
 A A A A A A T T GAAA A A A GAGGGGAAAAAGGACGGGGGGCAGABA AAAAAAGGGGAAGGGGGGAGGGACGAGGAGAGGAGGAGACAG
 A GAGCCAAGGAACCGGGGAAAAAGAAAGACACAAGGGGAAAA AAACAAGAAAAAGAGGGGGGAAGGAGGGGAAAAGGGGCAGAA G G A A G G A A G G G G A G A G G G G G G G C C G G A A A A A A C C A A GA G G A A

 G G G GAACCAAAAAGCAAAAAGGAAAAAGGGAGGGCCAGAGGG CCGGAA C G G G GAAAAAAAGAAAAGGAGGGGGAAGAGAAAGAAA $A C A C A C G G A G G G T T G G G A G G A G C A A G A G G A G G A G G G G G G G A C$
 GAAAGGGAGGCAGGCCGGAAAAAGGGAGGGAGAAAAGGAAAG A GACACGGGAAAGGAAGGGAGAAGACCAGGAGCCGAAAGGGG G GAGGGAAGGAAGGGGAAAAAACCAAGGGGAAGGGGAAAAAG $C \subset G G A G G G A A C C G G A A T T A A G A G G G G G G C C G G A A G G A A G G G G$ A G G G A A A A C C C C A A G G A A G GAA $A \operatorname{GA} A G G G A A G G G G C C A A G G G G$ $A C C C G G G A A A C C G G G A A G A G A C G G A G C A G A G G G G A A A A C C C C$ A G G G A G A G A C A A C C A G C A G A A G G G A A C C A G A G A G A G G G G G A G
 GAAAAAGGACCCAGAGAGCAAGGAGGGGGAAACCAAGGAGAA A G G GCAG G A C G G G G A G A GAACCAACCGGCCAAGGAGGAAC G G A A A G G GAACC $\mathcal{A} G A G G G C C G G G G A A G G G A A C A G G G C C G G G G B A$ G G G G A A A G A A G GACAGAAGGCAACGGGGGGGGGGGAGGGGGG GAGGGGAAAAAAAGAAAAAAAAGAGGGGCAGGAAAGGGGGGG A GAAGGACAGAAGACCAAAAGAGGACGGAAAAAAGGGGAGGG $A C A A G A G G A G A A C C G A A A A G A G A G A A A A G G G G G G A G A G G G G G$ G G G G G G G G A T A A G GACAGGAAGGACCAAGAAAGGCAGAAAAA G GAA A G G G G GAAGGCACAAAGGAGAGCCAAAAAAAAGGAGAA A GAGCCGAGGAGAGGGACGGAAAGAGAGAAGGGAAACCAGAG A G G G A A C C A G C A G G A A G G G G A A G G G G G G G A A G G A G G G G G G T T A G GA $\operatorname{A} A A G C A A A A A A A G G G G G A G G A A G G G A A A G A G A G A G G A T$ G G A A G A A G G G G A G G A A A C G G G G G G A A A GAGGGAAAACAAAC C A G G G A G G A G G A A G G G GAGCCAAGGACGAGAGGGGGGAAAAAA AACCGGAGGGGGAAAGGGCCGAAAGAAAAGGGAAGGCCAAAA
 G GGGCACCAAAACCAAAAGGAAAGCCAGCAGGAAAAAAAAAA G G G G A A A G A A G GAA A ACCGGGGAAAAGGCCCCAAGGGAAGAC GAGGAGAAAAGGAGAGGGAAGGAGAGACCCAAAAAAGGAGAA C CAGCACAGAGGTAGAAAGGAGGGACAAAGGGAAGGAAAGGA TAAAAAAACAAACGCGGGGGCAGGAAGACCGGAAAAGGGGGG AAGGCAGACCGAAACCAAGAAAAAAAAAGGGGGGGGGAAAAG

G G G G G GCACCAAGAGGAAAAGAAAGACAAGGGAGGGAGCACA GGCCAGCAAAAGGAGAAAAAGGCCAGGGAAAAGAAAAAAACA AA $\operatorname{G} G A A A A G A C G G G C A A C G G A A G G A G A G A G G G A G G A C C A G G G$ A A G G G GAAAACCACGACCCGAAAAGAGGAAAACCAAGGAAGA GAAAAAAAAGGAAGGGACCCCAGAGAAGGGGGGGAAAAAAGA G G A A G G G G G G G G A G A A A A A T G G G G G A A A A A A A A A G G CAAA C C A A G G G A A G G G G G G A A TAAAAAAGGAAAACCGGAGCCACAAAA $A C G G A A G G A A A A G G G G A A G G G G G G G G G G A A A A A A C A G A C C G G$ G G A A A A $\mathcal{A} G G G G G G G G G A A G G G G G G A A G G C C G G A A G G G G A G A A$ G G G G G G G G G GAAAAGGGGGGAAAACCGGGGCCGGAACAAAAA $A C G A G G C C A C G G A A G A A C A A G G G G G G A A G G G G G G G G G A A A G G$ A A A G A A G G G G G G G C A A A G G G A A G A G G G A C C A A G G A G C C G G G G A GCA $\operatorname{G} A C A A A G G G G C C A A G G G G G A T T A A C C A A C A A A G G C A G G$ A A A A A GCGCAGGGACACACCAAAAAAGGGGAAGGAAAAACAC C CAACCAAGGAAGAGGGAAGGGAAGAGGAGAGGGAACAAAAC CAGGACGGGAGACCGGAAAAAAGGAAGGCCGGGAGAGAAAGA A A G GCCAGAACCGGGGAAAACCGGGGAACCAAAAGGCCAA GA CAA A GA $A \operatorname{GA} A \mathrm{~A} A A A G A A G G A G A G G G A G G G A A A G G T T C A A A A A$ G G G GCCAACCGGGGGGAAAGGAGGAGAAAAAGGGGAAAGGCC A G A A A A A G A A G A A A A GCCACAAAAGGGGGATTCAAAAAGGCC G GAAGGAACCAAGGGGACAATAGGGGGAACAAGAAGACAGGG A A A A A A C C G G GAAAAGGGGGAAAAGGAGCCAGAAGGGAAAGA A A A A A A G A G G G G G G G G G G A A G A A A C A A G GAGGGGGGAAAAAA G G G GAAGGCCAAAACCAACCAAACCCGGCCAAGGAAAAGAGG G G G A A A G G A A C C C C A A A A A A G GAGGAAAAAAGAAAAAA G G G G G GAATTAGAACCGGAGAGGAACGGGGGAGGGGCCAAGGAACA AAAAGAACAGGGGGGAAAAGAGCCGGGGGACAAGGAACAAGA A A A G G G G A A G G G G G C G CA $\operatorname{CAAAAGGCAAAGGGGAGAAAGAGAA}$ CACCAGGGAAAAGAAAGGAAGGAAGACACCGGGAAAGGCCBA AAGGCCAACCGGAAGGAAAGGGAAAAAAGAAACAGAGAATAG G G C A A A G G G G A G A A G A A A G G G G A A C C A A G G A A A A G G G A A C G G A A G GAATTAAAAGGGGGGCCAACCCCGGGGAAAGAAAATTGG A GAAAAGGGGCCAGGGGGAAAAGGGGGGAAAAGGAAAAGGAA G G G G G A A A A A A G G G A A A A A A G G A G C G GA G A A A A GAA G G G G G A A A A A A GAA $A$ G $A T \mathrm{~T} G \mathrm{G} A \mathrm{~A} C A A A A A G A C C G A A G A G G A G A A C A A A G$
 A GAGAAAGGGAACAGAAGAAGGGGAAAAACAGAAAGTTAAAG G GAAAAGGGGGGGGAAAGAGAAACCAACAGGGGGGGCCACAG

 A GAAGGGGAAGGAAAAAGGGAGGAGAAAAAGAAAAGAAACAA G G A A A A T T A A G GAA $A \operatorname{GAA} A G G A C A A G G A C A A G G G G G T T A G A A$ AAGGGGAGAGAACCAAAAGGCAGAGGAAAAAAGGGGAACCGG G G G G A A G G A A G A G G A A G G G GAACCAACCAAAAAAAAAAACAC
 G G G A C C A A G G G G G G G G A A C C G G A A A A G G A A A A A A A A A A G G A A A A A A A A A A G G A A C CAA $A \operatorname{GGAAGGAAAAAAAAAAAAGGGGAAGG}$ G G G GCCGGGAAACCAAGGCGGGGAGGAACCAGGGAAGAAAAG G G G GCAAGCAGGGAAAGAAGAGACACGAAAACCAGGGGAAAG AAACGGAACCGGCCCCAGAGGGGAGGAGACACCAAGGAACAG A GAGAACCAAAAGGAAAAGGAAGGGGGGCCGGGGGAAAAGGG A A A A A A A TAGGGCCAAGAAGAAGGGACAAGAGCAGAAGAAAG CAAAC GCAGAAGAGGGAACCGGGGAGAAGGTAAAA GAGAAGG AAGGAAGAAACCAAAAGAGGGGGGCCGGAAGGAGGAGGGGGG G G G G G G A A GAAAAACCGGGGGAAAGAGAGGAGGGAAAAAGAA


 AAAAAGCCAGAAAACCCCGGAACCGGGGAAAAGGGGAAGGAA

A A A A A A G G G G A A A G G G G G G A G G A GCCAAGAGAGAGAAAGAGA
 ATAGGGCCGGAAAAGGGGGGCCAAGAGGCCAAAACCGAAGCC G G G G G G GAACAGGAAGAAGGAAAGAAAACCAAGGCCAAGAAA G G G GCCGGGGAGAGGGGGAGGAAAGGCCAAGGGGGGAGAAAG C C A A A GCACACGAGGGGGCCAAAAAAAGAGCAAAAAGAGAAA $C \subset G G G G A A A G G A G A C C G G A A G G G G A G C A C G G A G G G A A A G A A A$ AAAGAGGGGGGGAAAACAAAGAGGAAAAAAAGCAGAAAAGGA GAGGAAGAAAAAGGAAGGAAGGCCAAAACAAAAAGGGGAAGBG $C C G G C A A A C C A A A G G A A A A G G A A A A G A G A A A T A G G G C A A A C C$ GAACGGGAAAGAGAGATTCAAAGACCGGAAAGGAAGAAAA GA GACCAAGGAAGGGGAAGGGGGGCCCCGGCCGGAAAAGAAAGA GAACGAACCACAAAAGAGACCCGAAGAAGGAAACAGA
GGAAGAGAGACCAAAGGGAGGAAGAAGGGAGGACAGAAAAA G G GAGGGGAGGAAGAAACAGCCGGGGGGGGGGAAGGAAAAGG AAAACCAAGGAAAAGGCCAAAAAACCGGGGAGGGAAAGCCGG A A A A A A G A GAGCGGCAGGGGGGCCAAAAGGAAAGGGCACCCC A A A A G A A G A A A G A G G G G G G A A G A G G GCCGGAGGGCAGAAGCC $A \subset A G G G C C G G A G A A G A G A A G A G A C G G G G G G A G A A A A G G A G A G$ GAAGGGAAGGAAAAAAGAGGGCGGAACCGGGGCAAGAACACC AACCAAGGCAGAAAAAAAGGGGGGAGGGAGAGGAAAGACAAC ACAAGGAGCCGGCCAGAGACGGGGAAGAAACCAAAGGAGGAG A A G GCCGAGACGAAAGGAGAAAGGAAGGGGAAGAGGAGAAAA TA $A G G A A A G G G A T T C A T A A A G A A G C A G A A G G G G G C A G G A A A G$ GACCAGGGGGAAAAGGGGGGGGGAAGAGCCAAAACCCAGACC A A G GAGGAGGAGAGAGGGAAAGAACAGGAAGAAAGGAAAGAA A GAGGGACAGAAAAGAAAGGGGAAAAGGGGGGGGGGAAGAAA A A A GCCAGGAAAAAAAGGGGGGAAAACAAACCAAGAAAAAAA C C GCCCAGGGAAGGAGAGAACCGGAGGGCCGAAAGGGGAGAA G G A A A A A G A A G GCA $\mathcal{A} G C C A G A A A G G G A G G G G G A G G G G G A A G B$ A A G G G A A G G A A G A G C G A A A A G G G G A G G A G G GA G A A G C A C C G A A GATGGGGAAGGAGAAAAAAAAAAGGGGAAGAAAGGAAGGGG GAAGGAAAAGGGCAAGAAAAACGACAGAGGAAAAGGGAAGAG A A G G A G G G A A A G A A G G G A T T G G A A G G C C G GAA $A$ G A A C C G G G G A A G G A GCCGGGGAAGGAACCAAGGGGAAGGCCGGCCAAGGAA G G G G A A A G G G G A A C C A A $\mathcal{A} G G G G G G G G A A G A A A A A G B A A A G G A$ G G G G G A A G G G G G G A G G G A G A A C A G G G G G G G G G A G A G G G A G G A A G G GAAAA AAAAACAGACGAAAGGCCGGAAAAGGGGGGAAAAA
 $A G G G G G G A A G G G A G G G A A A A G G G G G G G G A A A A A A G G C A A A G G$ G G G G G G T TAA $A \operatorname{TGC} C A A A A A A G G G G A G G C C A A G G A G G A A A A$ A G A G C A A A G G A A G A A A C A G A A A A A A A A A G GAAAACCGG G GAA $C \subset G G G C G G G G G A A G A G A G G G A C A G G G G G A A G G C C C C A A A A C C$ C C G G G G G G GAGGGGGGAAAGGAGAAAAAAGAAGGCCGGCCCC G G G A C C G G G G C C C C G G G G G G A A A A G G G G G G A A G G A G G G C C A A G G G G A A G G A G G G A A C A A A G G G G A G A A G G G A A G A C C A G G A G G G GAAGCCAAGGGAGGCCGGGAAGAGACGGCAGACCAAAGAACA ACGGACAAACAACCGGAAAAAAAGCCAAAAAAGAAGAGGGGG G G A GAGGGATAAACGAGGGGGGGGGGAGGGGGGGAAAAAGAT A A A G G G G A G G A GA $A \operatorname{A} A G G G G G A A A A G G A A C A A A A A A G G A G A C C$ GAAGAAGAAAGAGGACAGCAGAAAGAGAGGGAAGAAAAAAAA A G G G GAGGGGCCAAGGGGAGAGCAAGACGGCCGGAAGGGGAA
 AAAAGGGGGGTTAACCGGAAGGGGAAAACCGGGGGGAACCGG A A A A A A A A A A GAGGAAAAGGGAGAAAGGGGAAGAAAAAAAAA G G G G A A G G G G G G C C G G G G A A A A G G A A G G G G G G A A G G G G C C G G A A G G G GAAAGGCAGGAAGAGCCGGAGGGGGAGAAAAAAAGAT GAGGGGAGAAGGAAGGCCAAAGCCCCAGGGAAAAAGAGAAGG $G A C C G G A A G G A G C C G A A G A A A C G G G G G G A A A A A G C C G G A G G G$

G GAAGAGGAGCCGCGGGGCCAAAGGGAAAGAAGGAAGGAACC C C A A C G G A G G G A A C A G G G G G G G A G A A G G G G CAA A A A A G G G A A G G GAAGGAAGAACCGACCGGAAAGGGAAGGAGAAAAAACAAA ACGGGAAAGAAAGGCGAGAAAAGAAAAAGGAAAAAAGAAAAA AAAAGAAGGAACCAAGAGGGAAGAAAGGGGGGGGAGCCAAAA A G G G G G A A A G G G G G G G A G G G A G G C G G G G A G G G C C G G C C A A A A G G A A A A A A G G GAGGGAGGAAAGAACCGAAGAGGGCCGAAAGA AAGGAAGAGGAAGAGGCCAGGAAACCAGAGCCGGAAGGAAGG A G A A A A A A A A A G G G G G A A A A A A A A A A A A C CAAAACC G G C C A A AAGGAAGGAAGGAAGGCCGGAAAAAAAAAGGGCGGGAACAAA A A A A A A G G GAAAGGAGCCTAAAAAAAGGGGGGGGAAAAAAAA G G G GAA $A \operatorname{GAAAAAAAAAGGCCAAAAAAGGAACCAAGGAAAAAA}$ C C G GAA $A \operatorname{GAA} A G A A A C A G A A G G A A A G G G G A C C C X A G A G G G A A$ A A A A G G G G G G A G G A G G A A A GCGAAAGGACGCCAAGAAGAGAG CAAAAGGGAAGGAAGAAAATGGGGAGAAAAAAAAGGAGAAGG G GAGGAACAAAGCCGAGAAAGAAGAAACAGACAAGGAAAAGA G G A A C C A A G G A A A G G G G G G G G A G G A A C C G G G A A G A A G G G G A A AAAGAACAAAGAGGAAAAGAAGCCAAGGGGGGGGAACCAAGA G GAGAAAAAAAGAGTAAAGAGAGATTTAACAACCGGCCAAGAG A GAGAACCGGGAGAGAAAAAAAAACGAGGGGAGGGGAACCTT AAAAAAGGAAGAAAAGAAGGAAAAGGAGCCAAACGAAGAAGG A A G GCCGGAAAAGGGGAGCCGGGGGGAAAGGGAAGGGAAGAA A A A A G A A G G GAA $A \operatorname{GAAAAGGGAAAACAGGGGAAGAGGGAGAAA}$
 GAA A A $A$ A A $A G G G G A A A A G G G G G G G G A A A A A A G A A A G G G G G G G G$ G G GAGGGGGGCCAAAAACGGAAGGGACAGGAGAAAAGAGAAA $C C G G C A T A A A A G A A G A G A A G G G A G G G G G G G A A A A A G G G G G G G$ G G A A C A A A A A A G G GACAGGGACAAGGCCAGAAAAGGCCACAA GAGGAAGGGGGGAGGGAAGGGGAAAGACAGGGAGCGAGAAAG GAAGATAGGGAAAAGGGGAAGACCAAAAGGAGAAAACCGGGG G G G G A A A A A A C C G G G A A GA $\mathcal{A} G A G G G G G G G G G G G A G G A G A A G G$ AGAAGGGAAGGAAACCAGGGAAAAAAAAGGAGGCAGAGGGAA G GAAGGACGAAAAAAAAAAAGGGGGGCCAAGACAGAAACCAA A G G A A A A A G G G GA $\operatorname{A} A A A A G G G A A A A A A C C G G A G A A G G A G A A G A$ AAGGGGAACCAGGAAACGCAAGAAGGAAAAAGCAAAAAGAAG
 C CAAAAAAAAGAGACCAAAGGGAAGAGAAAAGACACAAGGAG GAACGAGGGAAGCAGAAGGAGAGAAAGGGATTGAGAGGGGGA GACAGAGAAGAGAGGGAAGAAACAAAAAAGGAGAAGAAATCC C CAA $A \operatorname{GCC} C \subset A C C C A G C C G G G G G G G A A C G G A A G A G A A G A G C A$ G G G G G G A A A A C C A A G G A A C A G G A A G G G GAA $A$ G A G G G A A G G G G
 G G G GCCGGGGGGAAAAAAAAGGGGGGAAGGCCTTCCGAAAGG AAGGCCAACCCCGGGGGGAAGGGGCCAACCAAGGAAAAAAGG G GAA $A \operatorname{GCC} G G G G A A G A C A G A G A G A A G G G A A C A G G G G G G A A G B$ T TAACACAGAAAGGAAAAGGAAGAGAGGCCAGAAGGAGCCAG G G GAAAGGCCCAGAAGAAAGGACCGGACAAAAGGAAAAACAG G GAA A G G G C C G A A G GAGGGGGGAACCGGGGGGAAGGGGCAAA G G G G G A GAAAGACCGGAGCAGGGGGGGAGAGGAAGGGGGAAA G G A C A G G G A A G A G A G G G A A G G G G G G G A G G G G A G G A G G G G G G G G G A A T T A A G G A A C C G G A A G G C C G G G G A C G G G A G G G A A G G G G G AAAAGGCCGGAAAAGGAAGGAAGGGAGGAAACAAGGCAACAA GAAAGGGGGGAAGGGGAAGGCCGGCAAGGGAGGGAGAAAAAG
 A A A A A A G GA $\operatorname{A} G A C G G G A A A A G G A G G G G G A G G G A A G G A A G G A A$ A G G G GAGGGGGAAGAGGGAAAAAGCGGACAAAGGGAGABAAA G GCAC GAGGATTCCAAGAGGAGAAAAAGGGGGGGAAAAAGGG $G G A A A A G G A G C C A A A A A A G G G G A A G G G A C C A A A G A A A G G G G G$ AAAGAAGGAGAGGGCAAAGAAAAGGAGAGGAAAAGGGGGGAA

GAAAGGAAAAGGGGAATTACAGGCGAAAAAGGGGAAAAGAAA A G GACCAAAAGGAGAGGAGAGAGAAACCAAGGAAGAAAGGGA G G G GAA A GAA $A \operatorname{AGGGGGGAGAGAAAAGGGAAAGGGGAGAAAAA}$ A G G G G GAGGAAAAAGGCCAAGGAGGAAAAAAAAAAAAAGAAA
 G GAAAAAAGGAAGGGGCCGGCCGGGGAAGGCCAACCGGGGAA
 G G G G G GCCGGAAGGAAGGAAAAGGAACCGGGGGGGGAAAGAA A A A A G G A A G GCC C G G G A A C C G G G G C C G G G GAAAA A G G G G G A A AAGGGGGGGAGGCCCCACGGGAGGAAGAAAAAGGAGAACAAG GACGAAAGGAGAGGAAAAGGCCAACAAGGGCAAAAAGGEGAA G G G G A A A A G G A A A A G GAGGGGGCCGACAGAAGGAAGCCAAAA GACA $\mathcal{A} G G G A A A A G G C C A G G G A A G G G G G G G G G G G G G G G$
GAGAGGGGGGGGGCCGGGGAAGGGGGGGGAGAGGGAAAAAG A G G G G A G G GAA $A$ A A A A A GATAAAAGGAGAAGGGAAAAAAGAG A GAGAAGGCCAACCACAAAAAGAGGGAAAAAAAAGGAAAAAG
 AAAGAAGGAAGGGACCAGACGGGAGGAAGGGGGGGGAAAAAA G G G GAAAAGGGAGGGGAACCGAAAAGCCGAAAGGAAAAGGGG A A C C G A G A A A C A A G A A A G A G G A G A T A G G G A A G A G G G G G A A A G G GAAAAGGCCAAAAGGAAGGGGGAAAAGAAAAAAAAAAGAAA
 GAGGAAAAAAGAGGAAAAACCCGGGGGGGAGAGAACAAGGCC A A A A A GA $A \operatorname{GA} A \operatorname{AA} A G A G A A G G A A A G G A G G G G A A G G G G A A G G A A$ GAA $A$ A A A A C C T T G G G G A A A A G G T T A A G G G G A C A G G G G G G C G G GAAAAGGGAAGGAGGGGGGGGGGGAAGGAAAGGAAACCBGAG G GAGGAAGAGGGAAAAGGAAAGAAAGAAGGCAAGGAAACAAA A A G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G $G G G G A A G G G G A A A A A A A A A A G G G G G G G G G G G G A A A A G G A A G G$ C C G GCCAAAAGGAAAAGGAAGGAACCAAGGGGAAAAAAAAAA G G G GAAAAAAAACCAAAAGGAAAAAAGGGGAAAAAAAAAAAA AAAAAAGGAAGGAAAAGGAAGGAAAACCGGGGAACCCCAAAA A AAACCGGAAAAAAAAAAGGGGGGGGAAAAAAGGCCGGABAA G G G G A A G G G G A A G G A A G G C C C C A A T TGGAAGGAAGAAAAAAA A A A A A A G G A A CCGGAAGGAAAAAAGGCCAAGGAAAAAACCAA A A A A A A G G G G G G G G A A G G G G A A G G G G A A G GAAAAAA A $A$ A G G A A AA $A G A A C C G G G G G G G G G G G G A A A A G G A A A A A A G G A A C A A A A A$ G GAA A G G G A A G GAAAA A $A \operatorname{AGGGAAAAGGGGCCGGAAGGAAAAAA}$ A A G G A A G GCCAA $\mathcal{A} G G A G G C C A A G G G G C C G G G G G G C C G G G C A A$ G G G G G G G G G GAAAAAGGAGAGCGAGCCAGAGAAGAGGAGAAAA G G G G A A A A A G A G A G G A G A A G A A G G G GA G C A A G G G G A A A G G A A G GACAAGAGGAAGGAAAAGAAAGGAAAGAAGAGGAGAAAAAA A A A A G GAAGAACATCCGGGGGGCAGAGGGGAAAAAAAAAAAA A A A A G G A GCAACCAAAGGAAAAGGAAAGGGGAGGGGGABGAG
 A A A A G A A A A A C CA $A$ A A G GAGGAAAAAAGGGGGA GACCGGAGGG
 A GAGAAAAAGGAAAGGAAAAGGCCAAGGGGCCGGGGAAAACC G G G G G G A A $\mathcal{A} G G G G G A A A A A A G G G G G G G G G G A A G G G G A A A A A A$ TTCCAAAAAAAAGAAGAAAAAAAAAAAAGGGGGGGGGACAAA A GAGAGCCAGGAAAGGAGGAAAAGCCAAAAAAAGAGGA GGGG A A A A C CAA GAAAAGGAAGAAACCCAAACAAGGGGGAGAGGCA
 G GAGGACCCGGAGAAGAAGAAGAGACGAGAAAGGGGAGCAAG A A G A A A A G A G G A A A A A G GACGGGGAAAAGGGGACCACAAAAA A A A A A ACAAAACAAAAAAGGAGCCAACCGGAGCCGGAGGGGGB A A G G G GCCACAAGGCAAAGGAAGGGAGGAGGGGGAAGGGGGG G G G A G G A A A A G GAC $\mathcal{A} A G A G A G G G G G G C C G G G G G G G G C C A A G G$

A A A A A A G G A A G G G GAGGAAAGGGGAGCCAAAGGAAGGGGGAG AAAGAGCACACAGGAAAAGGGGAAGGAAAGGAGAAGAGAACA AA GAGAGAGAAATTAGAGCAACACGGGGGAGAGAGAAAGGGA A A A GAGAAAAGGCCGGACGGAAAAGGGGAAAACCAAAGCAGG G GAAAAAAAAGGGGGGAAAAAAGGGGAAAAAAAACCGGGACA GAAGGAAGAGGGGAGAGGGGAGGGGGACAAAGACGAAAAAAA GAAGGGCCGGAGACGGGACAGAGAGGGGAAGGTTCCCCCCBA AACCAAAAAGAGAAAAGGAACCCCAAAGAAGGAAAATTGGGG A GAA $A \operatorname{GAAAAAAAAAGGAACCAAGGAAAGGGAAGAGAGAGACA}$ G G GACAAGGGGAGGAAGAAGCCAAGGGAAAGGAGAAAAACAC AACAGAGGGAAGAAAGAAAGAGGACAAGGAAAGAAAACCCCC C CA $\operatorname{C} C A G G A A A A G A G A C C A A G G G A G G C C G G A A G G G G G G G G G G$ A A A A G GAA $A \operatorname{GAAACCAAGACCAGAGGGCCGGAAAACCAACCGG}$ AACCAGGAGAGAAGAAGACCGGAGGGGAACGAAAGATAGGAA A A A A G GAAAAGGGGACGGGACAAAGAGGAAGACCAGAAGGCC GAAGGGGGTTAGAGGGAAAACCGGGGAGAAAAAGAAGGGGCA G G G GCCGGGGGGCAAGAGAGGAAAAAAAAAGGAACACACAAA G G G G A A G G A A A GCA A G G G G G G A A A A A A A A A G G G C A A A G G A G C C AAGGCCGGGGAACCCCAGGAGAAAAGGGAGGAAGAAAAGGGG A A A A A A G G G GCCAAAAAA GAACAAGGGGGGAAGGGAGGAGAGG G GAAAAAAGGAAAAAAAAAGCAAAGGCCAAAAGGGGAGAC GA CAAAAAAAAGGACCACAAAAAAAAGGGGGGAAGAAACCGGGG A A A A C C G G GAA $A$ A A A G GAGAGAAGAGGGAAGAGGGGAAAAA G G G G A A G A G A A G A G G G T T G A G A C C G G A A G G G G G G A A G A G G G A G A A A A G G G G A A GACGAACGGGAGGAGGGCCAAAAGGAAGATTGA G G GAGGAGAACAAAAAAAAAGGGGAACAAGCAAAGGGGGGCA A GAA A G G GCCAAAGCCGGGAAGGGGAAAGGGGAAGGGGAAAA A A G G G G A A GACAA $\operatorname{T}$ A $C A G A G G G G G A G G G G G A G G A A A G G A A A G G$ AAACGGGGAAACACAAAAAAAAAAAAGAACAGAGAAAAGGGG AAAAGGAAGGAAAAAGGACAGGGGCCAGAACAAGAACCAAAA A A A A G G G G A A A A G G A G A G G A A A A G A A G G G G G G A A G G G G A A A A GGCCAAAAAAGGGGAAAAAAGGAGAAGGAGAAGGAAAAGGGG
 C C T TA GAAAGAGCAAATTGGGGGGCAGGAGAAGBACGGAAGAG G GCCGGGGAAGGCCAACCGGAAGAGAAACCGGGGGGACGGGG $G G A A G G A A A A A G C G A A G G C C G G C C A A A C A G A G G A A G G G G A G G$ G GCCGGAAGGGGAAAAAGGAAACAAAAGAGAAAAAAGGGAGG G GAGGGAAGGGACCAGAAAAGGAGGGCCAGAAAGGAGEAAGA A A A G A A A A G G C A A G GAGGGGAAGAAGCCACGGAAGAAAAACC A A C A C C A G GAA $A \operatorname{GGGGGAAGAGGGGCCGAGGAAAAAAGGAAGG}$ GACCAAAAAAAAAAAACCCCAGGGCCGGAAAAGAGAAGAGAA C C C C G G G G G G G G G G G G A A G G G G A A G A A G A A A G G G A A C C G G G G G GAA A GAGCGGAGAGGGAAAAGAAAGAGAGGAACAAGGGGAG G G G G G GAGAAAGAAAAAAGGGGAAAAAAAACCAAAGACAAAG G G G G A A G G G GAGCAAGGGGAAAAGAACCAAAAAGAAGACCAG G GCCAAAAGAAAAAAGAAAAGGAAAAAAGGAGAAGGCCAAAA
 A A A G G A A A GAA $A \operatorname{GGGG} \operatorname{GA} A G A A A G A G G A A A G G G G G G G G A A A A A$ G G GAAAACCCAAACGGAAAGAAGGCCAAGATACAGGAAAAAA AACCGGAGGAAAAAGGAAGACACCAGCCAAAAAGAAGGAGGG A A GAGGAGGAAACCCCGGCCAGAAAAGGGAAGGGGGCCAGGG G GAAACCACAAGGGAAAACCAAAAGGAAACCCGGAGAGAA GA G G A A C C G G G A G A A G A G G G A C G G G A G G A A A A G G A G G G G G G G G G
 A GAAAGCCCCGGCCGGCCGGAGGGGGAAGGGGAACCGAGGGG ACGGGGAAGGAACCGGAAAGAACCACGAGGAAGGACACAAAA GAAAGGCAAAGAACGGGGGGGGAGAGAAGGGGAAAAACGGGG $G G A A G G G G A G G G G G G G A A A A A A G G A G G A A G G G A A A A G G A A A G$ $A G A A G G A A G G G A A A A A G G G G G G A A A G G G G G G G G G A A A A G G A A$

A A G G G A A A GAAAGGACAGGGAGGAGGGAAAGGAAGGGGGGAG $A G A G G G G G G G G G A A A G A G A G A G A G A A G G A A G G A A A A G G A G A A$ G G G G G G G G G G A A A A GAAAA A C G G GAA A GAGGACAGG GAAACA $A$ $A G C C A G G G A A G G G G G G A G G G A G A A A G A A C C G G G A A G G G G G G G$ ACGGGAGAAAAAGGGGAAAAGGAAAGCAAAAAAAGGGGAAAA G G G GAAAAAACCACCCAGCCAAACAAAGAAAAGGAAAAATGG
 A GAGAGAAGGAAGGCCAAGAAGGACAGGAGGGGAGAACAAGAG A G G G A A A GCCAGGGGGGGAAGGAAAGGGCCCAGGAAAAAGCA AAAAAACCACACCACCAACAACGGGGAAAAAAGAGAAGGGGAA AAAGGGCCAGAAGACCAGAGGGGAGGAAAGGGGGGGCCAAGA C C G A G A A G A A C C C CA GAAGGAAGGGGCCAACCCAGGAAAAAG A A A G G G A A G G G A A GCC G G CACA $\mathcal{A} G G G G A A A A A A C A A G G$
GCCGGAAGGAAGGAGGGAAGGGGGCAAACGGGGGGCACAGG A A A A G GCC C G G A GAAAAGGGAGGAAAGGAGGGAAAAAAGGGG G GCCGGAAGAGACAAGAGGGGGAGGAGGAGGAAGCCAAGAGA $A G A G A G A A A A G G A A G G A A G G G G G G G G G G G G A A G A A A C C A A A A$ G GAGAAGGAGAGAACAGGGGAAAACCAAGGCAAAAGAAAACC $C C G G G A A C G G G G A A G G G A G G A A A A G A A G G A G G G G A C A G A C G A$
 $A G A A A A G A G G A A G G G G G G G G G G G G G G G G G G G A A G G G G A A G A G$ GAGGGGAAAGAGAGGGAGAAGGAAGGGAGAGGGAAGGAAGAA AGAGAGGAAAAAAAGAAGAAAGCCGGAACCAGCAGGGGAAAG A CAAAGGGAAAAAAGGAAAAAGAGCAGAACACAAAAAAAA GAG A GAA $A \operatorname{GGA} A A C C A G A G A G A G G G A C C C G A G G G G A G A A G G A A A A$ A A A A G G A G A GAGGAGGCCGAGAGGGGCCAAGGAAAAAAGAAA
 GGCCAAAAAGAGGGAAGGGGAAAAAACCAGGAAA GAGAAGAA $A A C C A G G G G G G A G A A A A G C A A A A A A C A A G G A G A A C C G G G G A G$ G G G A A A G A GAGAAGAACCAGAAGGAAGGCCGGGACCAAGGCC $A G G A G G A C A A G A G A A G G G G A G G G G G G G A G A A G G G A A A A C C A A$ AAAGGGGGAAGGGGAAGGGGCAGGACAAGGAAAAGGACGGAA ACAAAAAAGGGGAAAAGAGAGCAGGAGAGAAGAAAAGGGGGG
 A A G G G A C G A G G C A G A G G G G G G G G G G A A G A G G G A A G G G G A A $\mathcal{A} A$
 AAAGAAGGGGAGAACGGGAGGAATAGGGAGAGAAGGCCACAG A GAAGATTGACAGAATAGCAAGGAAACCAAAAGAGGGAAAAG A A G G A GCAGGCCGGGGGGGAGGGGAGACGAAAGGCCAAACAG A A G G A A G G G G A A G G A G A A A A CACAAGGGGGAAAAACAA G GAA C CAAAAAAAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAACA GAAGAAAAAAGGGGAAGGAAAGAGGGCCAACGATAACCAAGB G GAAAGAAAAGGAAGGGACCGGCAAGACGAGAAAAAGAAAAG
 A ACACCAAGGAGAGAGAGATAAGGGGAATTGGCCAAAAGGEA A A A A G G G GCCAAGGAAAAGGAGACAAAAGGGGAAAAGAAAGG G G G G G GAGGGAAAAGGAAAAGAGAAGAAAACGAACCGAAAGAG A A A A A A G G GAGGAAGGAGAACCAGGGGGAAAGGGCCGGAAAA G GCAGGAAGGCCAAAGAGGAAGAAAGGGGAAAGACCTTGGAA A GACAAAAGGGGCCGGAAAGAAGGAAGGAACCAAAAGGAAAB GACCAGGGGGAAAGAAGGCCAAGAAAAGGAGAAAAAAGGGAA $G G C C C A A G G A A A A A G G G G G G A A A A G G A A C C G G A G G G C A A G A A$ $A G G G A G C A G G A A G G A A G G A A G A A G G G G A G A G G G G G G A G A A G G$ AGAGGAAAAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGG AA $A \operatorname{GAAAA} A \subset C \subset A A G G G G G G G G G G A A A A A A G G A A G G G A A A A A$ G G G G A A C C G G A A G G G G G G G GAA $A \operatorname{GGGGAAAAAAGGGGAAAAGA}$ G G G GCCGGAAAAGGAAGGCCAAGGGAAAAGAAGGGAGGACAA G GAAG $A$ A A $\operatorname{A} G A C G A G G A A A C A A A C G G G G A A A A G G A A A A G A C A$ $A C C A C C G G A G A G G A G A A A A A A A G G G G A A A C A A G A G G A G A A G G$

A G G G A A G A A A A GAA A A G GCCGGGAAAGGGGCCAAGGACAGAA A G G G G G A A G G G G G GCC G A C A A G G G A G G A A GCC G A G G A A G A G G $G G A G A G G A A G A A C C G G A A A A G G C C A G A G C A G A G G A A A A G G G G$ G GAGAGGGAAGAAGGAGGAAGGAAAAGAGAGGGGGAGAAAAG GAAGGACAAGCCGGAAAAAAAAGGTTAGAAGAAGGGGAAGAT CAACAAGAGGACAGGGCAGGAAAAGGCAGGCCAACCCAAAGG A G G G A A G G G G G A G A G G C C G G G G G G A A A A G G A A G G A A A A G G A A AA $A G A A G G G G G G C C G G A A G G A A G G G G C C A A A A G G A A G G G G G G$
 A A G G G G G GAGGGAAAAAAAGGGGAAGGGCAACAGGGAACAAA A GAAGGCAAACCAAAGAAGGGAGAAAAAGGAGCCAGGGAAGG C C CAC CAA G GAAAAGGAAAGACGGGGAGAGCCAAAGAGAGGA
 A G A G A A G G A A A A G G G G G G G G G G A G A C A G G A A G G A A A A A G G G G G GCCAAGGGGCCGGGGGGGAGGAGAGAGCAAGCAAGAGAAAG ACGAAGAGGAAGAGGGAAGGCCAGAAGGGGGAAGGGGAAAAA A A G GAAA $A \operatorname{A} G \mathrm{GA} A \mathrm{~A} A A A C A A G G A A C G G A A A G G A G G A G G G A G B A$ C C G G A A G G A A G GAA A A T T G G G G G A A GA GA G GA G GAA G G G G G G AACCGAGAGGGGAAGGGGGGAAAAGGGGCCAGGGCCAGAACC C C A A A A G G G G G A G G G G G G A G G G G A G A G G A A A A G G G G A A A G A G A G GAAGGAGGAACCTTCCGGGGAAGGCCGGCCAAGAGAAAAG A GAGAAGGGGAAAGGGGCGGGGGGTTGGAAAAGGAACAAAAA G G G G G G C A A A A GAA $A \operatorname{GGGAAAAGGGAGAGAAGGAGGAACAAGG}$ A ACCAAACAGGGAAACAGAGGGGGAGCCAAAAGGAGAAAGAG A GAGACGAGGGGAAGGAAGGCCGACAAGAGGAGAAAAAGAGA GAGAAGCCGGGGGGACGGGGAACCGAAGGATTAAAACCBGAA GAGGAAGGAGAGGGAGGGAGGAAGAGACAGAGCAGAAAGGAG A A A G G A G A G A A G A A G G G G G G A A T T A A A GAGAAGACAG G GAAA A GAGGGGAAAAAAGAGGGAAAGAAGGGAAAGCCAAAAGGGGCA GGGGCCGGCCAAGAAAGAAGCCACAAGGGGAAAAGAAAAGGG G G C C A A A G C C G G G G G A A G G G A G A A G G A A G A G A G G C A A G A C G G A G G GAGGAGGGGGGGGCAGGACAGAGGGGGGGGGACGAAACC A A GAA A A G GAGAGGCCAGGGAGAAGGAAAAAAAAGGAAGGCC GAA $A \operatorname{T} A A A G G G G A G G G C C G G A A G G A A G G G G A A G G A A C C A A B A$ AAAAGGCCGGAAGGAAAAGAGGCAACCCACAGACAGGAAAAG GAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGAAAGGGGGG A A G GAAAAGGGGAAAAGGGGGGGGGGAACACAGACAAGCCBA


 $A G G A G A A G G G A G T T A A G G G G G G G G A A A C G G G G G G G A A A A A A G$ GAAG G A A G G G A G G A G A A A G G C G T T G A G A G A G G G A G G G G G A G G AATTACAACCAAGGGGAGGGAGAAGGAAGGAAAAAAAAGAGG AACAGGGGAAAACAGAAGAGAACCAAAAAAGAGACAGEGAAG GAAACCAAAAAACACAAAGGAAGGAACCGAGGGGGAGGAAAA C C G A C CA GCCAAAGGGCAAAAAAAAAGGAAGGGGAAGGACAA A A A A C A A G G G G A A A G G A A C C G G C C G G G G G G G A G A C A G G G A A G GAGAAGGGAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGGG AAAAAAAAGGAAGGGGAAAAAAGGGAAAGGGGGGAAAAAAAA A A G G G A A G A A A GAA $A \operatorname{GGGAAAAAAAGGGGAAGGAACCCCBAGA}$ G GAAAAAGAAAGGGAAAGAAAAGGAGCAGGCCAGGGGAGAAA A A A A A A A A A G G GAAAA A A A A A A G G G GAGAGAGAA G G G G A A G G A A G GCCAGAGAACCGGGAAAAGCCACGACCAAAAGGGGGGGG GACGAACGGAAGGGGGGACAACAAAAAAAACCGGAAGGGGCC G G G G A G A A G G G G G G C A G G T T G G G G G G A G G A A G G G A G C C A G A A GAGGAGACGGAAGGAGAAAGGGAAGGAGACAGAGACAA GGGG G G G G A A A A G G C C C C G G G G A GAA A G GAGGGAAA G G CA G G G G A A
 $A A C C G G G A G G C C G G A A G G A A G A G G A G A A G G A G A G A A C C C C G G$

A A A A A A G G A A G GCCAGAAGAGGAGGGGGGGGGCCAGCCAGAA A G G A A A A A C C G GCC CAGGGAGAGGCCGAAAAAAAGGAGCCCA CACCGGAAGGAAAAAAAACCAAAAAAAAAAGGGGGGAAAAAA A A GAGAAAAGGAGACAGAGGGGAACCAGAAGGGGAGCACAAA GAGAGGGGGGAAAAGGAAGCAACGGGAGAGAAAAAAAGAGGG CAAAAAGAGGAAGGGGAAAGAGGGAAAAAAAAGGAAGGAAAC GAGGAACAGGAAAGGAGGGAGGCCAAACCAAACCAAGGGGGG CCGAAAAGGGAGAGAAAAGAGGCCGGGAGGGGGGAGAAAAAA C CAA GAGGCCAGCAGAAAAAGACCAAAAGGAACAGGGAAGAG AAAGGATTGGGGAACACAACGGGAGGAACCGGGGGGACAAGA C CAAAAGGGGAAAAAAGGGGAGAACCGGAACCGACAAAAAGG G G A A A GAGAGAAGAAAAAAAAACCGAGGAACCGAAAACBGAC A G T A C A G G G A A A A G G A G G A A A G A A G A G G G G A A G A G G A
AAAGAAAAAGAGAAAAAGGAGAACGGGAAAGAGGGAAA GAG AGGAGAGGCCCCAAAACCAAAGGGGGGGGAGGGGTTGATAAA $C C G G A G A G A A C C G G G G G A A C G G G G G G G A C C A G A G A A A A C C A G$ GACAAGACGAGGAGAGAAAGAAAGGAAAGACCAAAAGAGGGG AACCGGAGAAAGGAAAGAAGGAACGGAAAAAAGGAAGAAAAA AAAGAAAGCAGGAAAAGGAAAGGGAGAAGAAAGAGAAAAGAA CA $A G G G G G G G A A C A A C A A G A A A A G G G G G G G G G G A A A C A G A A A G$ GAGGGAGAGAACCCGAGAAAGGGGAAAAAGAAAACCCCAGAA GAAAGGAGAAGAAACCGAGGAAGAAATTAAGGGAGGCCGGCC A A G G G G G G A A A A G G A A CACAGGGGAAAGGAAAGGCAAAAAAA G GCCC GAAAGGAGAGGGGGGGGAGAAGGGAGCAAGAAAGAGG A A GA G A A G G G A A G GAAAAACAGCCGGCCAACCAAGGAAGAAA $G G C C A A A A G G G G A A G G A A G G G G G G G G C C G A A A G A A G G A G A A G$ A GACAAAGAAAAAAGGCCGACCGGAAGGAAAAGAAAAGAGAA
 GACACCAATTGACCGGTTAAAAGGGGCCGGGAAAGAAAGGGG AAGGACAAAAGGAAAAGGAAGGAAGCAGCAAGATCCGGAAAA A GACAAGAAACCGGGGGGAAGGGGCCGAGAGGGGCCGAAAAG G G G GAAGGAAGGAAGGGGAGCCGGAAGGAAGGCCAAAAGAAA A GCCCCAAGGAAGGGGAAGAGCAAAAAATAGGAGAGAAGGGG
 A A G G A G G CA $\mathcal{A} G G A G G A A A A G A G A A G G G G A G G A G G G G A A G A A G$ G G A A G G G G G G G GC C G G C C G GAAAAACCACAGGAG GAA A A GAA A A G G GCCGGAAGGGGGAACAACCGGGGAAGAAAACGACAAAAG A G G GCCAA $C$ G $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G} C A A T G G A G G A A A A A C C G A G A G G A G T A$ G G G G G GCCAACCGGAACCAGGGGGAAGAAAAAAAAAGAAACC G GCCAAAAAAAAGGAAGAAAAAAAGAGAAAGGAATTCBAGAA A A G G G GAA A G A A A A A A A G G G G G GAA A GGGGGAGAAAAGA GAA G G
 G G G GAAACAAAAGGGGAAGAGAAGCAGAAAAATTGGCC G GAAG $A \subset A A A G G G A G G G G G A A T T G G G G C C G G A G A A C C A G G G A A G G A A$ A A A A A ACCAAAAAGAAAGACAAGGGGAAAAAAAAGGGGGGAA A A G G A A A A A A A A G GAA $A \operatorname{GGAAGAGACAAAAGGGCAAAGAGGAG}$
 A A A GAGGGGAAGAAAAAAGGGGAAGAGAGAGGAGGGAGAAAA A GACATAGAGAGGAACGAAGAGAAAGAAAAGGAGGGACGGAA A GAGAA $A \operatorname{A} A G G A G A A G A G G A A G G G A A A G G A A C G C C B A G A A C A C$ CAAGAAAAAGAAGGACGGGGCCGGCCGGGATAGGAGAAGGAC G GAGGGAATAGGCAAGGGAGGGCCAACCGGCCAGGGGGAGAA G G G G A A A A A A G G A A G G A A G G G GAA A G A G GAA A A A A G G G A G G A C C G A G G G A G G A G G A G GCC C C G G G A G G A A G G A A G A G A G G A G G G AAAGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACC G G G G G G G A G G A A A G C A G GAAGGAAAGAGGGGGGACCAAAAAA G G A A G G G A G G A A A A G G A A C C G G C C A A G G G G G GACAA A G C C A G
 $G G A A A A A G A A C C G G A G G G C A G G G G G G C C A G A A C C G A G G A A G A$

GAAAAACCAGAAAGAGACACGGCAACCAACAAGGAGAGAGAA G GAACCAAGAAAGGAAGGGGAGCCAAACGGGGGGCCGAAAGA A GAGGGAGGGAGGGAACCTTGGGGCCAAAAAAGGAAGGAAGAG C CAA A G GAGGCAACAAGGGAAGGGGGCCAGAAGGAGGGAAAA G GAGGGAAAAGGGGGGAAAAGGAAAGAACAAGGGAAAAAAAG GAGAAAGGAGGGAAAAACGGAGAAAAAAAAAAGAAAGGAGAA A A A A G GCCAA $C$ C $\mathcal{A} A G A A G G G G G G A G A G G G G A G A C C A G G A G G A G$ GGAAGGCCCCGGAAAAAACCAAGGCGGAAAAAGGGGAGAGAG A G A A G G G A G G A A G A C A G G C C C C G G C C C C G G G G G G G G G G C A A G G G GAGAAGAGAAGGCGGAGGACCCGGGAAAAAACAACCAAGG G GA A A A G G G G G GAAAAGGAGAAACGGAAGGGGAAAAAAGGAG G GAAACGGAAAAGGGGAAGGCCAAAGGAAAAGCACAGGAAAG A A G G G G G GCCAAGGCCAGGGGAAACCAAGGAAGGAGGAGGAG G G G A A A A G G GAAGGCCAAAAAAAAGGAAAAAAGAGGCA G G GA GAAGGGAGAAGGAAGGCCGAAAAGCCGGGAGGAAGGGGGAGG G GAGGAAAAGGCGGGGAGAGGGAAGGAGAAAGGGGGAACAAA G G G A A A GA $\operatorname{A} G \mathrm{G}$ GAAAACAAAGGGCAGAAAGAAGAGAAAGAGAC $A C A A C C A A G G C C G G C C G G T T G G G G A A G G A G G A G A G G A G A G A A$ G G GAGGGGAGAGGGGAGAGAAAAAAAGAAGAAAGAGAAGGAA A G G G A A G A G G A A CAG G G G G GACACCC GAGGGAGGAAGAAA G G AAGGAAGGGGAAAAAAAAAAAAAGGGGAAAGGAACCGGAGAA G G G GA $\operatorname{A} A C G G G G G G A G G G G A A G A A G G G A G A C A A G C C A A G G C C$ G G A G G G G A A GCCGGAAGAAGTTGAAGGAGGAAAAAAGAAAAG GAACAGAGGGGGAGGGGGCCAAGGGGGGAACCAGCAAAAAGG A G G A A A A G G G G A C C A A A A G G C C A A G G A A GAAAAAAAAA A A A A G GAACCAAAAGGGGGGAAGAACGACCAAACGAGGAGAACAGA AAGGAAGGAAGGAGGATAAACCAAGGAAAAAAAAAAGGAAAC C G G A A G A A A A G G G G G G G A G A A G G A A A C C A A G G G G G GAA G G A A A A A A A A GAAAA A G GCCAGGAAGGAAAAAGGGAGGGAAAAGAG A GAAAAAAGAGGGGAGGACCCAAAGGAAAACCGGGAAGAAAA G GCCAACAGGGGCCGAGAGAAAGGAAAAAAAAAAAGGGAAGA G GAGGGAAGGGGAAAAGGAAGGAAAGAAAAGGAAACAAGGAG A G GAGAAGAACCAACCGGAAAGAGAGAAAAAGCGAAAAAAAA A GA GAAAAAAGGAAAAAAGGAAGGTAGAGGGGAGGGCCCCAA G GAACCGGAGAAAGAAGGGAGAGGGAAAGGCCGGAGAAGAAA G G GAAAGACAAAAGAAGGAGAAGACCGGAAAGAGGAAAAGAG G G G G G A A G G G G GAAAAAAGGGGGGAAAAAAGAAGGGAAAC G $A$ G G G GAGAAGGGGCGGAGAAGAAAAGGGGAGCCGGCCCAAAGA A A G G A G G A G G C A G G A A A A G A A G G A A A C C G G A A A A A G G G G G G G
 C CAGAGAGAAAAGAGAAGAAACCAAAAAAAGGAGGGACAGCC
 GACCACAGCAAGTAAAACGACCGAAGAGGGAAAACCAAAAGA G G A A G G G A A GCCTTAAGGGGAGAGAAAAGGGAGAGAAAAGGG GAGGAAAGAAAAAGAGAACCAAGGGGCCAGGGCCGGAAAAGG A A A A G G G G GAAA $A \operatorname{AGCACCAGAAGGCCAAAACCAAGGGGGGGG}$ G G G G G G A A A A C C C G C C A A A G G G G G GAGAGAGAAAGAGGAAAA G G G GAACCAAGAGAAGACATAGAACACCAAGAGGTTAAATMA GAGAGAGAAAAAAAGGGGAAGGAAAAGGGGCAGAGGAAAGAA CAAAGGGGAAAACCGGCCAAAAAAGGCCAAGGGGGGAAAAGAG A A A A G G G G G G A A A G T T G A G GAGACAGAAGGCCCCCCGACAAG AGAAGGAGAACGCCAAAGGATTCCACAAGAGGCCGCAAAGGA A G A C G G C C G G G G G G G G G A C C A G C A G G G A C C G G G A A A G G G A A C GGTTAAAGAGAAAGAAAAGGGAAAAAGGAAGGGGAAGGAAGA G G A A A G A A G G G A G G G G G G G A G G G A A G G G A A G G A A A G C C G G G A A A G G A A A A G C G G G A G A G GCCGGAGATAGCCGGAGCCGGAA G G ACAACCAAAAGGAAAGGGAAAAAGAGAGGAAAAAGAGGAGAAA
 $A G A A A G G G G A A G G G G G A C G G G G G G G C A G A A G G G G A A A A A G G G$

A A A GAA $A$ AAAAGAAAAACAACGGGAGAAAGGAAAGGAAGAGA $G G T T G G A A G G A A A C C G G G C C C A G A A G G G G G G G A A G G A A G A A A$
 G G G GAA A GAGAAGGAGGGAAAAGAGGAAAAACAAGGCCGGGG A G GAGGCAGGGGAAGGAACCAAAGAGGAACAAACGAAAAAAA A GAAATGGTTGAAAGAAAAGAAAAGGGACGCGGGGGCATTAA A A A A A A A G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A A AAAACCAAGGGGAAAACCAAGGGGGGGGAAAAAAAAGGGGCC A A C C A A GACCAAAACAAAAAACGGGGAAAAAGAACCGAAAAA $C \subset A A G G C C A A G G A A A A A G A G A G G A A G A G A G A G A A A G A A G A C A$ A A G GAGGGAACCGGAGGGAAAACCAGCACAGGAAAAGCBGAA $A G G G C C G G A G G G A A G G C A G A G G A A A G G G A A G G A A A A G G A A G A$ A A G G G GCCAAGGGGAGGGCCACACAAAAAAAAAAGGG
GCAGAGGGGCCAAGGGGACGGGAGGAACCAACCCCCACCGG AA G GAAAAGAAGAAAACCAGGGGGAAAAAAGAGGCAAAGGGG G G GATTGAAAAGAAGGAAGAAGGAAGAGGGAAAAGAAC GAAA $A G A G A G G G G G G G A A G G G G G G G G A A A A A A A A G G A A A A A A G G A A$ C C G G G G A A A A G G G G A A A A T T G G G GCCGGGGAAAAAACCCAAA AACCCCAAAAAAAACCAAAAGGAAGGGGAAGGCCGAAACCBG G G A A A A A A G G G G A A G G G G G G A G A A A G G A C C G G A G A T G G G G A A AAGGGGGGAAGGAGCCAAAGGCAGAGGAGAAAGAGGAAAGGA AAGGAAGGCCAAAGAGAGAAGAAGCCAGAAGAAGAAACACAG G GAGAAAAACGGCGGGAGAAAAAAAAAAACGGGGAGAAACAG A G A A A A A G A A G G A A A A A A A G GAGGAAGGAAAGAGG GAA G GAAA A A A A A A A A C C C CA A G G G G G G A G G A G G G A G G A A A A A A G G A G G G CAA $A \operatorname{GGGA} \operatorname{G} A A A A A A A A G A A G G G A A G G G G G A G G G G A A G G A A G A$ C CAGGGGACCTTGGGACACAGAGGCCAAGGAGAAAGAGAAGA G GCGGACCGGAGGGAGTTAAAGAGGGGAGAGCCCGAGAAAGB G G G G G G A A C C G G G G G G G G C A A A G G G G G G G A G G A A G G A G G A A G AAGGAACACCGAGGAGAAAGGAGGGGGGAAGGAAAGAACCAA G G C C T T G G G G G G A A A G A A G G G G A A A A A G A A G G A A G G A A A A A A A GACGAAAAAAGAAAAGGAAGGGGGGGAGGAGAAGGGGAAGA GAGGAAAAGGAGAGAAAGAAAGCAGGAGGCGGGGAAAGAGGG G G G A A GCCGGGGAAGCGAAAAAGAGAAAAAGGAAGGGGAAAA T TAA A G G G G A A CAA A $A$ A A G G G G G A GAAGAGGAAGGAACAAAAA A G A A A A G G G G C C A A G G A A A A A A C CAACC GAAAAA GAA GAAT T AACAATGGCCAACCAGAGGGAAAAGGGAAGGAAAAACAAAAA GAGGGAAGGGAAAGAAAGGAGGAGGGGGCAGGAACAGGCAAA

 A A G G G GA $A$ A $A G G G G C C G A A G G G G G A G G A A A A A A A A A C C C G G G$ GAAAAAGAGGGGGGGGGGGGGGAAGGGGAACCCCCCGGAAAA AAAACCCCCCAAGGAACCAAAAAACCCAGAGGGGGAAAGGGG G GAGTAAGAGAAAGAGCCAAGGAAGAGAGGAAGGGGAAAAT T GAAAGAAAAAAAAAAAAAGGAAAGAGAAGGAGAAATAAAAAG G G G G A A A A G G G A A A C C G GAA A GAAAAAAACCCCAAACGGAAAA $G G A A G G G A A A G G A A G G A A A G C C A G C C G A G G G A A A A A G G A G A G$ A G G G G GCCAAAGAAACGGAAGGGGAAGAACAAGAACGGAGGG GAAACCGAAACCGGGGGGGGGAGGAGGAGGGGGGAAAAAAAA A A A A G G A A A A C C A A G A G G G A A C G G A G G G T T G G A A G G G G G G C C A A G G A A A A G G G GAAAAGGAAGGGGAAGGAAAAGGGGAAAAAA AA $\mathrm{A} G \mathrm{G} G \mathrm{GA} A \mathrm{G} G \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{~A} A \mathrm{~A} A A A A A A A A G A A G A A A G G$ A G A A A G G A A A C C G G G GCC GACCGGTTAAAAAAAGGAGGAGCC G G G G G G A ACC G GAAGAGAGAGGGAATTAGAGGGGAAAACAGA G GCCGGGGAAGGGGAGAAGGGGAAAGAGCCAGGACACCGGGG ACTAAAGAAAGAAAGGAAGGAAGAAAGGAAGGAAGAAAAACC A A G GAAGGCCAAGGAAGGCCACGGAGGAAGGGAAGGGGAAAA G G G G G A G A A A A C G A G G A A G GA GAG GAA G C CA A A G GAA G C C G G TAAAGGGAAGGAGGGGAACCGGGGGGGGCCAGAGAAAAAGGG

G GAAAGAAAAAGGCACGGGGGACCAAACCAACCCGGAACCTA A GAGAAAGAAGAAAGAAGAGGGTTAAAAGGAGAGAGAAAAGB A A A A A G G A G G A A A A G GAGAGGAGGAAGGGGGGAAGGAA GAAA A A G G G G G G A A G GAA A A A A A C G GAA A GAAAGGGAGAAAAT TAA ACGGAAAACCGGGAAGGGCAAGGGAAGGACAAAGAAGAAAAA A A GAAA A A A TAGGGAGAAGGACAGAAAGAAAGAGGAACGGGA A A A A G G G G A C G GAAAGAGGGGGACCAGAAGAAAAGGGGAAGA $G G A A G G A G A A A A A A A G G A G A G G G G G G A A G G A A A A A A G G A A C A$ C C GAG C GAAAAGGGGGGAACCAAGGAAAAGAGAAAAAGACAAA A GAGAAGACACCAAACGGAAAAGGGAAGAAAAGGAAAAG GAG G G G GAACCAGGAGGGAAAGGCCGGGGAAACGGAAAAGGACGG G G G G G G G G G G A A A A G G A A A A A A A A G G G G G GAAAAAAA G G C C A A CCGGAAAA $\mathcal{C} G \operatorname{A} A A G G G G A A A A A A G G G G G G A A A A A A G G G G A A G A$ G G G G A A G G A A G GC C G G A A A A G G A A G G G G C C G G G G A A G G G G A A G GCCGGGGGGGGAAAAAAGGAACCAAGGAAGGAAGGGGCCGG G GAAGGGGGGCCAAAAAAAAGGGGAAGGAAGGAAAAAAAAAA
 G G G G G G A A G G A A A A G G G G G G C C A A G G A A A A G G A A G G G G A A G G $G G A A G G C C G G A A A A A A G G G G G G A A A A G G A C G G A A G G G G A G A A$ A GCCAGAAGGGGAAAAAGATGGGGAAACGAGGGGGGAGAACC G G G G G GCCACAAAAAAAAAAGGGGAACAAGAAAAGGGGAAAC T TAAGACCCCAGAGAACGGACAAGCCGGAAGAAGAAGGAACC GAAAAAGGAACCAGGAAGAAGGGAAAGGGAAAACCCGGAAGAG $G G C C A A A C G A G G A C G A A A G G G A G A G A G G G G A A A C G G C C A A B A$ C C G G G GA G G GAAAACAAACCAAAGAAGGAAAGAAGGGGGGGG AACCAACCGGAGAAGAAGGAAAAAGGAAGGAAAAGGAGCCGG CACCAAAGAAGGGGGGGAGGGAAGAGAGGAACAACCAAAAAA
 A A A A G G G G G G A GAAACAAGGAAGGAAAAGGAAAA GAAGGCGG $G G C C A A G G G A G G A G A G A G C A G G G A A A A G G A A A A G A G C A A A C A$ A G A C A G G A C A G G A A A A G G G G G G A A C C G G A G G G A G A A A A G A G G A GAA $\operatorname{A} G \mathrm{G} A A C \mathrm{~A} A \mathrm{~A} A A A G A A G G A A G A C A G A G G G A A G A A A G G C A$ CAA $A \operatorname{G} G C C A C G G G G A A A A G A G A C G G G G G G A A G G G A G A A G G G G$ G G G G G A G A G G G GAAA A G G G A A G A GAGAAAAAAAGGGGACAAA GAAAAAGGGGGGAAAGAAGGAAGGGAAGGGAAGGGGACAGAA GAAACAAGAAGAGAGGGAAAGAAAGGGGAGCAGAGAGGACAAG A A T T GCGGGAACAGGGGAGGGGGAGGAAATAGAGGGAGAGAG GAGGGGAAAAGGGGGGAGCCGGAAGAAAGGCCAAGGGGAAGA A A G G G G G G G G G G A G A A A GCCGGAAAAGGCCGAAA GAGABAA G AAAAGGAAAAAAACAGGAAGAAAAAAAGGGAGAGAAGAAAAA $A G C C G G A G C A G A G A A G A G G G A A A G A G A G A G A C A A G A A G A G A A$ G G A G A A A G A G A G A A G G G A A G G A A G G A A G G A G G A A G G A A G G A A AAAGAAGGAGGGAACCCCGGGGAAAAGGAAAGCCCCGGAGAA A G G A G A A G A A G GCCAAAAAGGAGGAAGGAAAAGGAAAAGGGG C C C C A A G G C C G GAA $A \operatorname{AGGGGGGGGGAACCGGCCAAAAGGCCGG}$ A A G G A A G G G G A A A C G G A A A A GAGGCAAAAAAGAAACAA G GAC AC G GCAAC GAGAAAGGAAGGGAAAAAGGAAAGGGGAGGAGAA G G GACAGGAAGGCCGGAAAAAGGGGGAGAGAAAAGGGACAAA $C C G G A G A G G G G A C C C C A A G A G G A G A G G A G G A A G A C C G G A C A G$ AC G G A T G A A A G A A A A C A G G A A A G A A A A GAA $A \operatorname{GGGGC} C A T A G G G$ G G G G G A G G G G A G G G A A A GACAAGGCCAGGAGAAATTGAGAGA A GCAA A A A A GAAGAAAGAGAAAAGGAGAAAAAGGAACCCCCC A A A A C C G A A A G A A GAAGAGGAAGACAAAGGGACCAGA GAAAA G G G G GACAAAGGCAAAAAGGAGCCACCAGGGGAGGGAAAAGAA G GAGAAGGGGAACCGGAAAACAGGGAAGCCAAAGAAAGAAGA $A C G A A A G G G G A G A A G G G G A A G A G G G A G A C A A G A A G G A A G A G G$ AA G GAAAAAGGAACAAAAAGAAAGCAAAGAGAAGGAGAACAG G G G A A GAC GAGGAAAAAGAAAACAAGGGGGGGCCGGAAAAGAG GGAAAAAAAAGGGAGAAAAAAAGGAAGAGGAACCCCGGGGGG

GATTGGGGGGCCAGAGAAAACCGGGGGAAAGGGGGGGGGGAG A GACAGGGCAAAAAAAGAGGAACGAGAAAAAAAGGGGGAGAA G G G G A G A A G G A G G G G G C C A G G A A GCC G GAA A A GATTGACAC C AAAAAACCGAAGGAAGAAAAGGTTAAAAGGAAAAGGGGGGGG AC GAGGGGGGAGAGACAAGGAACAGCGAGAAGAGGAAAGCGG A GAGCCAAGGAAGGAGGAGAACAGAAAAAAAAGAGGAAAACC A G G G G G G G G A A G G A G G G G G G A A G A G GAAGGGGAAAACAAAAA GGGGAGAGCAAAGGGGAAAAGGAAGGGGAAGGAAGGAAAGAA G G A A A A G G A A A A G G A A G G G GAA $A \operatorname{GGGGCCGGGGAAAAGAAAAA}$ G G G GAAAAAAAAGGGGAAAAGGGGAACCAAAAGGGGGGTTGG G GAACCAAAAAAAAAGGGCGCAGAAGAAGGCCAAGGAAAGAA G G GAGGGGCCAAGGGGAAAATTGGAAGGAAAAAGGACABGAA A A A A A A G G A A G G G GAGCACCGACAAAGAAGACAAC GC
C GAGGGGAAGAAACCGGGGGGAGGGAAAAGGAAAAAAAAAG G GAGGACCGGAAGGGGAGAGGGAAAGAAGGAACCGGAAGGGA
 A A A A A A A G G G G A GATTAACCGGAGAGGACCCAGGAAGGAACA G G G G GACACAAACCAAGGGAAAAAGAGAGGAAAAGGAAAAAA $A G C C G G A A T A A G G A G G A A G G G G A A G G G G G G A A G G A A G G A A G A$ G G G GAAAACCCCCCGGAAGGAAAAGGAAGGAAGAAAGGAAGAG AAAAGGGGGGGGAACCGGAAGGCCGGGGGGGGGGGGGGAAAA AACCAAGGGGGGAACCAAAAAAGGCCGGAAAAAAGGAAAACC G GAAAAGGAAAAAAAACCGGAAAAGGAAAACCGGAAGGAAAA A ACCAACCTTGGGGAAAAAAGGAACCAAGGAAGGGGGGAGAAA G G A A A A G G A A C CAA A G G GCCAAAAAAAAGGGGCCAAAA G GAA A A A A A A G G A A G GAAAAAAGGGGAAAACCGGGGAAGGGGAACAC A A G GAA A G G GAAAAAAAAAAAAGGAAGAAGGACAAGAAAAAG GAACGGGGAAAAAACCCCAAAAGGAAAAAAAAAAGGGGAAAA G G A A A A A A G G G G G G A A G G G G A A G G A A G G G G A A G G G G G G G G G G AAAAAAGGAACCGGAAGGAAAAGGGGGGAAAAGGAAAAAAAG G G G G G G G G C C G G G G G G A A A A A A G G C C G GAA A G G G A A G G G G A A AAGGGGGGGGAGAAGGAAAGGGAAAAAAGGCCAGAGGGGGGG G G G G G GAGAGCAACGGAAAAGGGAGGGGAAAAAA GAAAAAGG G G G A A A G G G GCCCAAAAAA $\mathcal{A} A A A A A A G G G G G G G G G G G G G G A G G G$ C C G GCGGGGGAAAGGAAACATAAAGGGGGGGGGAACAGGGGA G G C A G A A C G A G A G A G G A A C CAACAAGAAAGAGATAAAA GAAA AAAGAAGGAAAAGGCCAAAAGAGGGGGAAGGACCGGAAAAAA
 C C A G G GAA $A \operatorname{GA} A G G G G A C G C C A C G G G G G G G A C C A A A A G G A A A A$ GACCAAAGGAAAGGAAAGTTACGGGGAACCAATTXGGGGGGG G G G G A A A A A G G G G G G G A A G GA G G GAGGACACA GAG GAGAGA A G G A A C C A G A G A G G G G G A G A A G G C A C C G G A A GA G A A G A G G G A C AAAGAGGAAAAAGGACCCAGAGAAGGAAAAGGGGGAGAGAAA A A G G A A A A G G G A G A G G A A G GAACCAGCAGGAGGAA GAAAA G G A A G G G GAA A G A A A A A A A A G G G GAA A G C C C G GAAAAA G G G G G G G G
 A G GAGGCCAAAGGGAGGAAAACCCGAGGAGAAGGGGACACAB G GAAAAGGAAGAGGAGAAAAAAGGAGAAAGAACCGGAGGGCC ACAAACGCCCAAGGAAAAGGAAGGAAAAAAGAAGGGAAGGGG G GCCAAAAGGAAAGGGAACCCCAGGGAACCGGAGGGGGAAAA ACGAACAGGGAAAAAAAGGGGAAGAGGAAGAAAGTTAAAAAG $G G A G G A A A C C G G G G G G A C G G A G G G A C G G G G G G G A A G A A A A G A$ G G G G G G A A G A G G G G G G A A G GACAGCCAAGGAGAGAAGGAAAA
 GAAAGAGAGAAGAGGGAAGGAGAAAAGCAGAAGAGGAGGGGG GAAAGCGGGGGGAAGGAAAGGGCCAAAAAGAGGAAAAGAGAG GACCGGAAGAAAACCGGGAAGGAAGGGGGGCCAAGAAAGGAG GAG GAGAAAAAAAAAACCAAAAGGAGAGCCGGCGGGACAAAA AAGAAACCCCGGGAAGAGGGACACGGCAAGGGGGAAAAGGGG

A A A A A A A GAGGAGGAAAAGGGGAACAGAGGAAAGAAAGAGAA $A C G A G G G G A A A G G G A G G A A G G A G G A A G G G G A G G G G A C C G G G G$ AAAAGGGAAAAAAAAGCAAGCCGGGGCAGAAAAAGGAAAAAA G GAAAACCGGGAGGAGGGCCAAAAGGAGAGGGAAAGGGAGAA A GAA $\operatorname{A} G C A T T A G A C A C C G A C A A A A G G G G G G A A G G G G G G G G A G$ GAGGAACCGGGGAGGAAGAAAGAAAAGGAGAACAAAAAAGAA A A A G G GAGGGGAAGAAAAAAGGGGGGCCCAAAAAGGGAAAGG G G G GAAGGCCAAGGGAAAGGGGAGAGGAGGGGAGGAGGAGAA GAGGAACCGAAGGGGGGGAAAAAGGGACACAAAAAAGGTTGG AGGGCCAAAGGGGAGGAAGAAAGAGGGAGGCCCCGGGAAAAG A GCCAGAGGGAAGAGAAGAAACGAGGGGAGAAAAAAGETTAA G G A G G G A A $\mathcal{A} G A A G G G G G G G G A G G A G G G G T A G G A A A G A A A G G A$ C C G G G G G A A C A G A G A A $\mathcal{A} G G G G G A G G G G G A A G G A A A A G A G G G G$ GAGGGAGGAAGGAGGAAGGGGGGACAGACCAAGGTTGACCAA ACAGAAAGGGGAAAGAAACCAGGGAACCAAGGGGAAAAAAGA AACCAACCCCAAAAGGGGGGCCCCCCAAAGCGAACCAACC GA G G G G G A A C G G G G G G G G G G G G A A C C G G A A C A GAGG GAA G C C C C G G G G A A A G GAAA $A \operatorname{AGGGAAAAGGGGAAGGAAAACCGGGAAAAA}$ G G G GAAGGGGAACCGGCCTAAGACGAAAAGGGAAGGAGAAAG G GACGGAGGGAGGAGAAGAAAAAGGGGAAAAAAAAACAAGAG CAAGGGGAGGAGCCCCAACCGGCAGAGAGGGGAACCGGAGGG A GAGGGGGCCCAAGAAGGGGGGGAGAAGAAGAAAAAAAAAAA G G G G A A A GCCAAAGAAAAGGGAGAGGCCCCAAAGACGGAACC A GACAGAACAGAAGAAGGCAAAAGAAGACAAGAGGAGGACAA CAGGGGCCGAACACAAAAAAAAAAAAAAAGGAGACCAAAGAC G G G GCA C G A T A G G G G G G G A A G A G G A A G G G G G G A A A A C C A A $\mathcal{A} A$ AAAAACACCCAAAGGGAGGGAGACGAGAACGAAGGAAAAGAG A G A A A A $\mathcal{A} G G G T T G G G G A A G G G G G G A A A A A A G G A A C C G A A A G A$ GAAGGGGGGGGGAAAGGACACCAAAGAAAACCGAGGGAGGGG $A C C C C C A A A A A A G A A A G A A C A A A A A A A A G C G G G A G A G G A G A A$ G G G G G G A A C C G G G G G G G G G G G G C C A A G G A A A A A A G G G G C C G G G G G GAA A A GAA $A \operatorname{AG} A \operatorname{A} G A A A A A G G G G G A C G G C A G G G G G G G G G G$ A A G G G GAA A G G G G G A A A A A G GA A GCCCC CAGGAGGGGGA G GA G G GCAGGCGAAGAACGGCAGGAAGAGGGACCAAGAGAGGAAAA A A G G A A G G CAA $A \operatorname{AGGGGGGCCAAAAGGGAGATAACGGAAAAGG}$ CATTGGGAAGCCGGAGTAAAAAAAGGAAAGGGAAAAGACAGA G GAAAACCAAAACCGGGGAAAACCGAAAAGGGGGAAGGAGAA G G G GAAAAGGGGGAGAGGAGAGGGAAAAAAAGTTAGAGAGGA A G G G G G G G A A A A G G A A G GCAGCGAGAAGGGAAAA G GAAAGGCC A CAACCAGGGAAAAAAGGCCGGAAGGTTCCGGCCACGAGGGG A GACCCAGAAGGGACCGGCAAAGGGAGGAAGGGAGAAAGGAA G G A C G G G G G G G G G G G G G G A G G G G A A G C A C C A A A A G G G A A G G A AGGGGACAACGAGGAGGGAGAAGAGACCGAGGCCTTGGAAGAA $A C G G A A G G G G G G G G A G G G G A G G A A A G A A A A G G C C G G G B A G A A$ AAAAGGAAGGAAAAAGCCAGAGGGAGGGGAGAACACAAGGAA
 GAAGGGAAGGCCGGAAGGAAAAGGCCAAGAAGACAAAGAGAG GAGGAAGGGGGGGAAGGGAAGGAAGGGGCAGAGAAAGAAAGA
 GAACGAGGAGAGAAAGAAGGAAGAAAAAGGGGGGGAGGAAGG G G G GCCCAGACCGACAAGAAAGGGAAGAGAGGGGGGAAGGGA AGGGCCGAGGAGCCGACCCCAACCAGCCGGCCAAAAGAGGAA G G A A A G C A G G A A G G A C G A A A A A G G G G A GA GAC GAT T G G GAC C A G G G G G G G C C G G G A A G G GA A G G C C G GC CAC C C CA G G G G C C C C C C G G A C A A A A G G GC $\mathcal{C} G G A G G G G G G A A A A C A G G G G G A A G A G A A$ G G A A A G G G GAAAGGAGAAAACCGACAAGGAGGGAAAAGAGAG A A G G G GCAGAGAAGAGAGAGGAAGAAAGAGAAAAAGGAAGAG G GCAGCAGGGCCAACCAAAGGGTAAAGAAGAGGAGGAAAGGG AAGGGAGGACAGACAAGGAGAGGGGGGGAAGAGGGGAAAAAA

G GAACCAGGAGAGGGAAAGGAGGAGCGGAAGGAGGAGGAAGG A A A A A A G A A G A A A A A A GAGGGAAAAGAGAGTTCGGGAACA GA GAAGCCAAAAAAACGAAAGGAAGAGAAAGGCCGGAACCGGCC A A A A A A A A A A G G G GAAAAGGAACCGGAACCAAAAGGAAG GT T AA G GAAAAAAGGAACCAAGGGGGGAACCAAGGGGGGGGGGGA G G G G G GA G A GCCTAAATTAAAAAAGGCCAGGAAGGACCAGAA C CAA $\operatorname{CAA} A \mathrm{~A} T \mathrm{~T}$ CAGAAGAAGGAAAAAAGGAAGACCGGAGAGGA GAGGGGAAGAAAGAGAAAGGGGCAGGAGGGAGGGGGAAAAAA G G G G C C A A A A G G A A A A $\mathcal{A} G G G G G A A G G T T G G C G G G G A A G A G G G$ GGAACCACAGACAGGAAGGAAGGAAAAGGGAGACGGGGAAAG AAAAGGACCAAGCCGAAAAAGGAGAGAACCGGAAAAGAAAAA A A G G A A A G A A GAGGAGAAAAAGGGAGAGGAAAGGGGGAAAGA

GAAGGAAGGAAGGAAAGGGAGGGAGGGGGAACAGGGACAGG AAAGACGGGGGGGGACGGAAAAGGAAGGACGGAAAAGAAGGG AAAACAGAATGAGAGAAAGGGGAGAAAAAGCCGAAAAAGAAA G GACGAAAAAGAAGCCAATTAGAACCAAGGGGAAAGAAAAGG AAGGGACCGGAAAGACAAAAAAGAAAAAAGGGGGGAAAAAAA $A G G G A A G G C C A A A A A A G G G G A G G A G G G G A A G G G G G G G G C C C C$ G GCCAAAGAGGGCCGGAAAACCAAAAGGGGAAGGAAGAGAGG AGGGGGCCGAAACCGAGAAACCAAGAAAAAACGGGAAGAAAA G GCAAATTGGGGAGGAAGCCGGAAGGGAACAAGGGGAAAGAG CCAACGAAGGAGGAGAAAAGAAGGAACGGGAAGGGACCGGAA G GAA $\operatorname{GAAAGCACCAACCAGAAGAGAGAAGAAAAAAAAGGGGAA}$ A A A G A A G G GCGGGACCGAGGCAGGGGAAAAAAAAAAAAAAAG AA $A$ A $\operatorname{A} A A A G G A A G G G G A A G G G G G G A G G A A A G G A A G G A A A A A G$ $A G T T G G G G G A A G G A G G G G A A A A A A A G G A C G C A A G G G G G A G G G$ A A G G A A A A A G G A G G G GAGAGGGCAAAGGAAAGAAAAGGGAGG C G A A G GAA $A \operatorname{GA} A \operatorname{A} G A G A G G A G A G A G G G G G C A A G G G G G G A G A A$ A G G G A A A A GAA A G G GAGGGGGGAAGGCCGGCAGGGGGAAAAG G G A A G G G G A A A A G G T T A A G G C A G G GAAAAA A A G G GAGAGAA A GGGGAAAAGCAGAAGGAAGGAGGAAGAAGGAGGGGGGGCCGG A A G GAGAGGGGGAAGGAAAAAGAAAAAAACCCAAAGGAAGGG $G G T A A A G G G G A A A G A G C C G G A A G A G A G A A A A A A A G G A G G G G A$ GAGGCCAGGAAGGAGAGAGAGAAGGACCAAGGGGAAAAGGCC A A G G A A G G G G A A C C G G A A A A $\mathcal{A} G G G G G G G G G G G A G A G A A G G A A$ A G GAACGGAGGAGGGAGGTAAAGGAAAGGACCGGGGAAAAGA G G G GA $A$ A A G GA A GAGAAAGGGGGGGGGGAAGGCCAAAAAAAA G G A A G GCCGGCCCAAAGGGAAGGAGGCCAAGGAAAAGAAA G G G G A A G G G G G G G G A A G G A A G G A A G GCC G G G GAAAA A A CACAA A GAGAGGACACGGAAAGTTAACCAGCAAGAGAGGAAAGGCCAA G GCCAGAAGAAGAGACCAAGGAAGGGAGAAGAGAAAA GAGAG AAAAAGCCAAAAAGAGAGGGGGGGAAAACCAGAGAAAGAAGG A G TA $A$ A $\operatorname{A} A G G G G G G G A A G C G C C A A G A A A A A G G G G C C A A A A A A$ C CAG GAACACCCAGAGAGCAAGAAGGGGAAGGAGAGAGCCCC A G G G A A A G A A A G G G GAGGGGAAGACAAAACAAAAGAAAAA G $A$ A $A$ A A A C G GA A G G G G G G G GAA G G CAAAAAAGGAAAGAAGGAGAAAA G GAGCACAAGGGGGAAAACCGGAAAAAAAAAAAA GGCCGGGG $A A C C A A G G G G A A G G G G G G G G G G G G G G A A G G G G G G A A C C G G G G$ AAGGGGAACCCCGGGGAAAAGGGGAAAAAAAAGGAAAACCAA A A G G A A A A A A C C G G G G T T G G A A G G G GAAAAAAA $A \operatorname{A} G G G G G G G G$ AAAAGGAGCCAACCGGAAAAGGGAGGGAGGGGAAGGATGGCC A A G G G A G G C C T T C C G G C C A A G G A G A G A G A A G G G A G G A G A G A G GGAAAAGGCCAAAGAAGAACAGAGGGAGCAGAAAGGAGAAAG AAAGGGAAAAGGCCGAGGAGGGGGAAAAAACCGAAACAAGCC AAAGAAGACCAACAGGAGAAAACCCCAAGGAGAGGAGAAGAG G G G G A C G G A A G G G G A A A A G G A A G G G G GAAACC GAGAAAAA CA A A A G A G A A A A G G A GAACCAGGGAGCCAAGGAA GAGAA GAC C G $C \subset A G G G A G C C G G A A A G G A A C G G A A G G A A G A C C A C A A A G G C A A$

CAAAAAAAGAGGAAAAGGGGAACCGGGGGGAAAAAGAGAACA G G G GAA $A \operatorname{GGGA} C \subset C A A G G A A C A A A A A A A A A A A A A C C G G G G G G$ AA $A G G G A A A A G G C C G A G G G G T A A C A G C C A A A A A A G G G G G A G G$
 G GACAAAAGAGGGAGGAGGGGGGGCCGGGGAAGGAACAAAAA A GAC GAGACAGGAAAACAAAGAAAGGGGGAGGAATTGGAGAA C CAATTGGAAAAGGAAGGGGAAGAGGAGGAGGAAGGGGAGAG GAAGAAAGGAAACCGGGGAAAAGGAAGAGGAAAGAACCAGAC A A G A G A G G CAA A $A \operatorname{AGGAAAGGGAGAGGGGCCAAGGGGCCAAAA}$ AAAAGGGGGGGGGGCCAAAAAAAACCGGAAGGAAAAGGAAGG AAAAGGGGAAGGGGAAGGAAGGAACCAAAAAAGGAAGGCAAA G G G G G G G G A A G G G G G G A A C C A A A A A A A A G GAA G GAAC CAAA A G G G G A A G G A A G G G G A A A A A A C C A A G G G G A A GA G G C C A A G G G G A GCGCCGGGCGCACAAACAGCCGGCGGGAGAACCCCAAGGAA C C A A A A G G A A C C G G G GAACCGGGGAGGGAGAAGGAAAAAAAA GACCAGGAAACAAAAAAAAAAAGAGGGGACGGGGACCCCC GA $A G A G G A T A G G G G A G G G G A A A A G A G C A G G A T C C G G G G C C G G B A$ G G G A A A A G G G A A G G A A G GA GAAA $A \operatorname{A} G A G A A A G G A A G G A G G G A G$ GAAAGGGGAAGGGGAAAAAAGGCATAGAGAAAGGGGGGGGGG G G G A A A A A G G A A C C G G G GAAGGGGGGCCAAAACCGAAAAAAG GAGGAAGGGAGACAGGGAAAAACCCCAAGGAAAAAGGAAAAA A GAAAAAAAGGAAAAAGGGAGAACCCGCGGCCAGCCAAGGGG GAGGAGAAAAGGAAAAGGGGAAAAGGAAAGGGAGAGGAAAAA G G G G G A G G G G A A C C A A A G G A G G C C G G A A G G GAA $A$ G A A A G G G G G G G G G GACTTGGGAAGAAAGAAAAGACAAAACAGGBAAAA GA AAAAAGGGGAGGAAAAAGGAAAAAAGCCGAAGAAAAAGAACC A A G GAGCCAAGGGGGGAAAACCAGCCGGGGAGAAAAAAAACC C C G G A A A A A G G A A G G G A A G GAAAA A GACACGGGGCCGGAAAA GACCAACCAGAAAAGAGGGGAAGGAAGAGAAGCCAAAAAAGG A G GAAGAAGACGAGGGAGCAGAGGGGGGAGCCAAGACCAABA AA $\operatorname{A} G A A A A A G C A G A G G A A A G A A A A T A G A G G A G G G C C G A A G A G$ GAGGAAAAAAAGGGAGGAGCGGGGGGGGGGAAGAAAGAAAAG A GCCGGAAGGCCGGAGGAGAAGAGAAAAAAAAAACCAAGGGG AACCGGGGGGAAAAGGGGGAGAAAAAAAAAAAAGAACAAGAA GAGGGAGGCCGAAACCAGAATAGGACGGGGGGACAAGGAGAA C C G G C C A A A A A A A A G G G G A G G G A A G G G G A A A GACAA A G A GA C G GCAAAAAGGAACCAAGGAGGAGGCCAGGAAGCCCCAAGAGG A G G GA GAAAGGGAAGGAAACAGCAAGAAGAAGACAGGAAGCC GAGATAGGAAAAGGCAGGGGAAAAGGAAGGAGCAAGAAACBG AACCAGGAACGGATTTGGATCCGGGAGGAAAACAAAAGCACC $G G C C G A A A A G G A A A A G A C A A G A G A A G A G C C C A C A C G A A G G A G$ A G A G A A A G A A C A G G G G G G A A G G G G G G G A C C G G A G G G C C A A G G AAGAAGACCCCAAGGAGGAAGGAAGCAAAAAGAACCGGGGGA AA G GAAAGAGAAAGGAAACCCAGAGGGGAAGGAAGGGGAGAG G G G A A A A A G G G G GACCCCAAAGGGAACCGAACCCAGAAGGAG G GAGGCGGGGAGCAGGAACCCCAGGGAGCCAGCAGACCAGAA
 ACGGCCGAAACCGGGAGAGGCAGGGGGGACAAGGGGACAAGG G G GA $\operatorname{l}$ A A A G GAA $A$ A $\operatorname{A} A A A A A A G G G A A G G A G A A A A G G A A G G G G$ A G G A T T G G A A C C A GAGAAAAGGGGGGCCAACCAAAAGAAGAA CAAAAAAAATGGAAAAAAGGGGGGAAAAGGGGAABGGGCCGG A A A A G GAA A G A A A A A A C C G GAAGGAAAAGGGGGGAAAA G G G G G G G G G G G G G G G A A G G G G G G A A A A A A A G G G G A A G G G G G G G G A A A A AAAACCAACCAAAAAAGGAAAGGGAAGGGAGGAGAGGAGAAG
 GAAAGACCCCAGACGGGGGAGAAGGGAGGGAACCAGGGAAGG

 G G G G A A G G G G G G G GAAAAAAAAAGGAAGGGGGGGGGAAAAA G G

G G G GAAAAAAAAAAAAAAAAAAGGAAGGAAAAAAAAGGGGGG A A A A C C G G G G G G G G A A A A A A A A G G G GAAAA A G G G G G C C C C G G A A G G G GAA A GAAGGAAGGAGAGGGCCGAAAACGGAAAAAAAA G G G GAGGAAGGAAAGGAGGGAAAAGGAAGGGGGAAAAAGGCC T T G GAAAAAGAAAAGGAAAAGGAAGGGGGGGGGGGAACAAAA
 CAAAGGGGAAGGAAAAACAGGAGGGGGGGGGAAGAAAAAAGG GAAAAAGGAAACGGAAGGAAAACACAAGAAGGCAAGGGGGGA G G G GCCAAAAAAGAAAAAGGAAGGAAAGGAAGAGACGGAGAA G G A A A A A A A A A A A GAAGGAAAGAAGGCCAGGGAAGACCAAGA G G GACCAAGGGGGGCCGGAAAAAAAGAAAGAAGGGAGGAGAA A A GAAA A A A G G GAGGAGGCGAGGGAGGAAGGGAGAAAAAACA AGGAAAAACAGGAGAAGGAAAAAGAACCCCACAAGGG
$G C C G G A G C C C C A G A A A A A A A A A A G G C A G G A G G A G G G A C A C G$ AAAGAAAAAAAAGGGGAAAAGAGGGGCAAAACAAGGAAGGAA A GAAA AACGGAGAGGGGGGGCCAAAACCAAAAGGAAAACAGAA A G GAGACCAGAGAAAGCCAAAAAAGGAACCGGAAAAAGACAT C C G A G A A A A A G G G G G GC C A A G G A G A G GAC G G GAA G G C C C C C C G GAAGGGGGACCGGGGAAGGGAGGACGAAGAAGAACGGAGGA G A A A A A A A GAA $A \operatorname{GGGGGCCTAAGAAAGAAAAGGAGGGAAGGAG}$ A G G GAA A A A A G G GACCCCGCAGAAAGCCGGGAAAAGGGAGAG AAAAGAGGGGAGTAAAGGAACCAAAAAAAAAAGGGGAAAAAG ACAAAAAATTGGCCAGCAAAAAAGGAAAAAGGGGGGAAACAA GAAGAGACAGAGGGAGGAGGCAGGAAAAAAGGAAAGAAACAA A A G A G G G G G G A A G G A A A A A G G A A A GAGAGGGGAGAAAAAG G G GGAACCCCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAGAAG G G GA $\operatorname{G} A \mathrm{~A}$ G GACCAGGGAGAAAAGGGGAAGGAGAACCAGAAGA G GCAAAAATTACAGAGGGAAAGGAAGGAAGGAGGAGCCAAGB GAAAGGGGGGAAGGCACCCCAAAAAAAAGGAGAAGGGAGAAG $A A C C G A A G A A G G G A G G G A A G G G A G A A A A A A G A A A A A A A G G A G$ A A G G G G G A A A G A G G G G A GCCAA $\mathcal{A} G A A A G G C A C A A A A A G G G G G G$ GAGGAGAGAGCAAAGAGGAGGAAAAGCCAAGGAAAAGGACAC CAGAAAAAGGAAGGACCCAAAAGGGGAAGAAGGAAGGCAGAC
 G G G G A G A A A A A A G G GAGGACCCGGAGGGGGGGAA GAAAAACC A A A A G A $\operatorname{A} A \mathrm{~A} G A A G G A A A A G G G G G G G G G G G G A A A A G A A A A A A G$
 G GAC $\mathrm{C} A \mathrm{~A} G \mathrm{~A} G A A C C A A G G A G C A G G G G G A A A A G A G G G G G A C A A$ A GACGGAAAAAAGAAGGAGAAGGAGGGAGGCCCCGGGGAABA GAAGGGAAAGGAGAGGAGAGGGGGAAAACCCCAAGGACAGAA $G G A A G G A A A A C C C A A G A A A G C A G G A A G A G A C A G G A G G G G G G G$ GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGCCGGCCCCAA A GAAGCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGGATACC AACCGGCCAGAGAGGGAAAAGGCCAAAGAAGGACAACBAACC C C G G G G A C G A G G A G G G G GAGCCGGAGGGAGGAA GAGAAAA G G
 G G G G A A A A A A G G G GCC $C$ G G G GACAGGGAGCAAGCAAGACAAAG G GAAGGCCAGGAGGAAGGGGGAGGCCCCAAAAAAGGAAAAGA $C \subset A G C C G G G A G A A G G G G G G G G G G G G G G G G A A G G G G G A G A A C C$ A GAGAAGAAGGGCCAAAGAAACCCGAGGAAGGAAAGAGAGAA $C C G G C A A G G G A G G A A G A G A G C A G G G G A A C C G G C C G G G A A A G G$ C CAGAGAAAGAGAGAGACGGGAGAGGGGCCAGGGGGAAAGAA
 AGAAGGCCCCCCGGGGACAAAGGGGGAAAAAAGGGGGAGGGG GACCAAAAACAAAGAAAGAGCAGGAAGGAGGGGGAAGAAAGA G G G A A GCCAA GAAAAATAGGAGCACACAAGGGAGAGAAAA G G
 A A G G A A C C A A A G G G A G G GAGC C G G G GAGGGAGGGGGAGAGAA GAGGGGAAGACCGGAAAAAAGGGAGGAAGAGGGGCAAAGAAA
 C C G GAA A GAGAGACGGCCAAAAAGGAGAATGGAAGGGGAGAA GAGGAAGACCGGAGACAAAAAGAAAAGCAAAAAGAGAA GAAA A A GAAGACAGAGAGACGGGAAAGGAACAAGAAAGAGAAAAGA $C C G G G G A C G A G G G G G G A A A A G A A A C C A G G G A G A A G G G G G G G A$ GAGGAGAAGAACGACAGGAACCGGGGGATTGAGGAAGAAAAA A A G GACAGCCGAGGAACACCAGAGAAAAGGGAAAGGAGAAGG $C C G A G A C C A A A G A G A G A A A A A A A A A G G A A A A A G A G G C C C C C C$ GAACCAAGAAAGGAAAGAGGGGAACCACCCGAAGAAAGAAAG GAGCGGAAAGCAGAAGAGAGCCGAGGGAAGAAAAAAAAGGGG A A G G G GAA A G G G G GCCAAAAAAAAACCAAGGCCGGGGGGCCGG G G A A A A G G A A G G G G G G G G A A G G G G G G G G A C G G G G G G A C A G A G C CAAAAACGAAGGGAACAACAGGGAGGACCGACAA GAAGGGG G G G G G GAA $A \operatorname{GAAAGGCCGAAGGGGGAGGAAAGAAGGGGGAGAA}$ A G GAGGGAAAGGGAGGAAGGCCAAGGAGACGAAAGGAGAAGG G G GAAAAGAAAAGACAAAACAGACAGAAAAAAAAAAGGGGGG A A G G G A A A A G GAAA A G G G GAAGAGGAAACGAAGGAGACAAAA G G G G A G G G G G G A A C C A A A G G C A G G GAGGAAAAC A A A A G G G G G G $C C G G G G A A G G G G G G A A A A G G C C G G A A G G A A A A A A G G G G A G A A$ G G G GCCGGAAGGAAAAAAAAAAGGGGAAAAAAAAAAGGAAAA G G G G A A A A G G A A A A G G G G G G G G G G G G G G G G G G A A G G G G G G G G
 G GAAAAAAGGAAGGAAGGAAGGGGGGAAGGAAAAAAAAAGAA AAGGAAGGAGGGCAGAAGAGCCAAAAAAAAAAGAAAAAAAAC A A A A G A G A A G G A C A G G A G G G A G G A GAA A GAGGGAA G G GAAC C A GAACACAAGAGAGAGGAGAAAAGAGAGAGGGGGGAAAAAAC GAGAGGAGGGCAAGAGGAAGAGAAAAGGGGGACAGGGACCBG G GAAAGGGCAGGGGAAGAGGAAAAGACCAAAAAAGAAGAGAG
 $A G A G G A G G A C G G A G G A A A G G G A G A G A A G A A G G A C G A G G A A G G$ A G GA A GAAAGAGCCAGGAGGGGAAAAGAAAAGGGAGAACAAA GAGACCGGAAACAGACGGACGGGGAACCGAGGGAAAAGAAGA C C GAGGGGCAAACCACGGAGCCAGGAGACAAGACGGAAAGGG CAAGGGGGACGGGGGGAGGGAAACAAAAGGGGCCCCGAAAGG G GCCGGGGAAGGAAGGGGGGCCAAAAAAGGAAAAAAGGAAGAG G G G G G G G G G G G G A A G G G G G G G G G G G A G G A C A A G G A A A GAA C C GAAGGAGGAAAGGGGAAGCACAGAGGGGGAAAGAAACCAAGA A A A A A A G GAGATAGCGGAAGAAAAAAAGGGAAGGAAGACCCC CACAGGAGAGGACAGAGGAGAGGAAAAAGAAAAA GAAAAGAG G G G G A A G G G G A A A A G G G G G G A A A C G GA G G G A G G G A G G G A A A $G$ GAGAAGAGAGGGAGAAGAAAGAAAAAAAGAGGAAGAGGAGAA G GAAGGCCAGCAGAAGCCGGAGAAAGGGGACAAACCGGGGGA GAGAGAGGGGGGAAGGAAAATTGGGGAAGGAAGGGGGAAAAG GAGAAAAAGGAAAACCGAAGAGGGAAGGGACCAAACGAGGGG AAAGAGCCGGAGCCAGAGGAGAGGAAGAGGGGAAGGACAAAG GACCGGGGGGGGCCGGAAAAAAAGAAAACCGGAACCCCAGBA
 G GAAAGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAGGGGG A A GAAA A G G GAGGAAGGAAAGGGGAAGGAAAGAAAAAAGGGG GACCCCCCAACCGGGGAAAAGGAGCCAATTAGAGGAGGAAAG C C G A A A G G G G G G GAC CA A A A G GA $\mathcal{A} A A G G G G A G A G G G G G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAACAAGGAAGAGAAA A A G G A A A A A A A A G G A A A A A A A ACCCCAC GCCAACGAAAAGGG G G GAAAAGAAAGGGGAGGAGCCGGAAAAGGAAAAAGGAGGCC A A G G G G GACCCCGGAGAGCAGAAGAGAGTTGGGACAGGAAAA G G G GCCCCAGGGAAGGAAAAAACAGGCCAAAAGBAAAGAGGG G G G GCCCCGGCCAGAAGGAAGAGAAGGGAGGGGAGGCAAA G G A A A G G A A G A A G A G GAAGAAAGGGGGGCAGGAAGGAAAAAAAA AAAAAACCGGGGAGAGGGGGTAAAAAAAAAAGAAAGAGAGAA

A A G G A A G G G G G GAA A A G GAGGGAAGAGAAGGACCAAAGAGGG A A A A G G G G G GCCA G G GCAAAAAAGGAAGGGCGCGAGAAAAAAG $G G C A G G A G A A G A A A A A A G A G C A A G G A A A A C A A A G G G G G A G G G$ GAAA A GAAGGGGAAGAGGAGAAAAGGAGGGGGGGCCAAAAAG G GAA A G G G A A G GAA A G G GAAGGGGAAAGCCACGGAA GAAAA G G G G G G G G G A A A A A A G G A A A A G G T A A A A A A GA $\operatorname{A} A \mathrm{~A} C \mathrm{C}$ C G G G G G AA $A \operatorname{GAA} A C C C G G A A G G G G G A A A G G A A A G G G G G G A G G A A G G A G$ AAGGCAGGGGAGAACAGGAGCCAAAAGGCCCCAACCAAACAA G G G A G G A A A A G A GAAAAGCCAGCAAAGAAAGGAAAAGGAACA GACCACAGCCGAAAAACACAAAGGCCGGAAAAAGAGATAGAG GAGGGACAGAAGGGAGGGAACAAGAAAACCAAGGAGAAACAG G G GAGGAAAGGGAACCGGGGAACCAAAATTAAGGGGAACAAA A G A GCCGGGGGAGGAAGGCCAGGGCAGGAGAAAAAAC
AAAAA $A \operatorname{A} A A \operatorname{A} G C C C A A G G G A C G A G G A G A G G A A A A G G G G G G G$ $G G C C G G C C A A A C G G G G A C A C A C A G A A G G G G G G G G A A C C A A G B$ AAAAGGAGAAGAGAAGGGCCGGTTGGAGAAGGGGGGAGACGG A G A A A A G G GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G C \subset C A A A C C G G C C G G G G G G A A G G A A$ G G G G G G A G A T A GAGAAAAGGGGAACGGGGGGGGGAAAAAAAG A GAGCCGGAAGGAAGAGGATGGAGGGCCGGGCAGCAGGGGGG
 AAAGGGGAAAGGAGGGAAAGGGGGAGGAAAAAAGCCGAGGAA A G G A A A A A G G G G G G G G A A G G G G A A A A G G G GAA A A A A A A G G A A GAGAAAACAGGGGAGGAGAAAAGGCCAAAAAACCAAGGAAGG G G G A C C G G A G C A G G G G A G A A A A G G G A A A G G A A A A G G G G A G G G A A A A T T G A A G G A A A A A T T G G G G A G G G G G G G G A C A G A G G G A G G ATCCGGAAGAAGGACCGGAACCGGGGGACAAAGGGGGACCAG CAGGGAAGAAGGAAAAAAAAAGCCGGAAGGAAAAAAGBACAG GACCCCGGAAAAAAGAGGAAAGGAGGAGGAGAAA GAAAATGG A A G GCCAAGGGGGGGGCCAGGAGAGAAAAATTAGGGAGAGAA $G G A C G G G G C C G G G G G G G G A A A A A G G G G G A G G G A C A A G G A A A A$ C C G G A G A G A A A C G G G G A G G G A G A G G G A G A A A A G G G G G G A A T T G GAAACAAGACCAAAAAAGGGGGGGAGGACACGGGGAGGAGA $C C G A A G G A G G A G A A G G C C A G A A G G G G A A G G G G C C G A G G C C G G$ C C C C G G G G A G G A A G A G A A GACCAAAGAAGGAGGGAAGAACA G AAGAAAGAGGAGCCAAACAAGCTACCGAAAAAAAAAACAAGG A A C G A G G A G G G A A CAACCAGAGAAAGACCCCAAAGGGAAAAA G G G GAAGGAGGGACGGCCCCAAAACCAGGAAACCAAAAGAAG AAGGGGGGAGAAACAACCAAAGAAAAAAAAAAAAAAAACAAA G G G A A A A A A GCCAAAAGGCCCAGAAGGAGGGGGGAACAAACC
 GAAAAAAAAAAGAGGGAAGAAAACGAAGAAGAAAAACAGGTT A A A G A A C C G G A A G G A A A G G G G G C C A A A G A A A A G A A A A A A A A A GAGAAAAATTCAAGAAAAGGAAGAAGGAAGAAGAAATAGGGG A A A A A A G G GAAAAAGGAAAACAAACCGGCCAAACACGAAGEG A A GAA $A \operatorname{GG} \operatorname{GA} A T \mathrm{~T} A A A G A A A A A A G G G G A C C A A G G G G G G G A A A C$ GAGAGAGAGACCAAAACAAGGGAAAAAGGACAGGAAGGAGAA GAGAAGCCAAGGAAAAAAGACCACAAGGAAAAGGGGBACAGAG G G G GAA $A \operatorname{GAAAAAAAAAAACCGGAAAAAACCAAGGGGGGGAAA}$ ACAGGGGGCAGGAGAAGAGGGAGGAAAAAAACGGCCAAGGGG G GAGAGCCGGGGGGGGCCAGAGGAGAGAAGGAAAGAAAACGG GAAACCGGCCAAAGGGGGAAGGCCGGGGGAGAAGAACAAGAA A GAGACGAGGGGAAGGAAGAGGGAAAAGCCCCAAAGGGAGAA G G G G G G TACCAAGGAATAAGAAAAGGACAGACAAAAGGAAAA AAAAAAAAGGAAGGAAAACCGGGGAGAGGGGGGGAAAAGAGA
 GAAAAACCGGAAGGAAGGCCGGAGAAGGGGGAGBAGGGGGGA

 $G G C A A C G G A G C C G G G A G A A A A A G A G A A A A C G A A C G A G G A A G G$

A GAA A A A G GAGGGGGGCCGGAAGACAGGGAAAAAAAGGAAGA A A GACCAAGGTTGGGGAAAACCAAGGGGGGAAAAGAAAAAAA G GAAAAGGCCGGAAGGGGGGAACCGGCCGGGGAAAAAAGAAA AAAAGAAAAAAAGGCCGGGGGGCCAAGGAAGGCCAAGGAGGC
 C C G G G G A A G G A A GAGCAGGGAACGGACCCCAAAACAGAAGGG C C G G A A G G A A G G G GCCAGGCAGAGAGGAAAAAA GAGAGAGAG $G G A A G G A A G A A A A G A A G G A A C C G G G G A A G G G A C C A A G A G A A A$ A A G GCCGGATGAACGGAAGAACACAACCGGAAGGAACCAGAG G G G G G GAAAGGGCCGGAGAAAAAGAAAAGGGGCCGGAAGGAG A GAAAAGGGGAAGGAAGGCCAGAAGGAAAAGGGGAAGACC GA A G G G C A A A G G A A A A G G G G A A G G G A A A A G G G G G G G G A G A G G G G A A G G G G A A A A $\mathcal{A} G A G G G G A A A G G G G G A G A G G A A G G G G A A A A A G$ G G GACCAGAAAGGAAGACGCGAAGGAGGCCGAGAAAGACGCC AAAAGAAAAAAAGGCCAAGGCCGGAAAAAAGGCCAAGGAAAC A GA $A$ A $\operatorname{A} A A G G A A G G G G G G A A G G C C C C G G G G G G G G G G G G G G G G$ G GAA A GAA $A \operatorname{GCC} G \mathrm{G}$ GAAAACAGAAAAGGGAGGGAAAACAAAAA G G A A A GAAAAAAAAGGGAGGAAAAAAAAGGGGAACCAAAAGA AAGGGAAAAAGAAAAAGGGGAGACGCACGGAAAAGGGAAGAG
 G G GAAGAACCAAGCAGGAGAGACCAGGAAAAAGGGGGGAC GA A A G GAAAAAAAGGAAGAGGGAGAGCCGGAAGGGGGGACAACC
 A G A G A A G G G A C A A A A G G G C G A A G G G G A G A A C C G G G G A G A G G A A G A A A G A C A A C C C C A A G G G G G G G G G G G A A GAGG GA G G A G G A C G G G G G G G G A A A C G G G G G A A A GACAAAAAAAAAGGAG GAGA GA GAGAAACAAAACAGAAAAGGGGCAAAGGAGAAAAGGCCAACAC G G A A A A G G A A A A A A A A A A A A A A GGGAAGAAACAAGAAAAAC G GAGGAAGGGGCCGAAGGGGGGGGGAGAGGGGGGGAAGAAAAA AACACCGGCCAGAAGGAAAAAGGCGGTTAAAAGAGAAAAAAG GAAGAACCGAGGAGCAAGAGAAGGGAAGAGGGGGGAAAGGCC GGAACCGGCCAAGGCCAAGGAAGGGAAAAAAACCAGGGAAGA A GAGGGCCGGAACCCCGGGGCCAAGGGGGGGGCCAGAAGGAA G G G A A A A GACAGGAGGCCGGAAGGAGAACCAGGGGAGAGAGA A A A A GAGGAAGGAACCAGAGGGGGCCCCAGGAGAAAAGAAAA A A G G A G G A A G G G A A A G A G A A A A A GAAG GAAGGGGCCAAAAAA
 A A GAA ACAGGGGAGAAAAGAAAGGAGGGAACCGAAAGAAACC
 A A G A A A A A A C A A A A A A A A G G G GCCAGGGGGCCCCCACCAGAA GAGAGGAACCGGGAAGAGGAAAGAAGAAGGAACCAGGGAGGA A A A A A A GAGGGGAAAAAAGACCCCAGAAAAGGACAGAAAACC GAAATTAAAAACGGAGGAAAGAAAGGAAGGCCAGAGAATACA A A G G G G G G A A G G G G G A A C G G TACCAAAAAAGGAGA GAGGAGGG A G G G G G G A A A A A G G C C G G G GAACCAGGAGGAAGAGAA GAAAA T T A G A G A A $\mathcal{A} A G G G G G G G G A A A G G G A G A G A A G A A A A G A A A G G G$
 A G G GCA C G A A GAAAACAGAAGGAGAAAAAGATGGGGGAAAAA AAAAGGAAAGAAGGAGAGCCGAGGGGGGCCACCCGGAAGGGG

 C G C A G GACAACCGGGAGGGGAGGAGAGAAGCAAAGACCGGCC G G G A G G A A A A G GA G C C A G G A C A A A CAGGGAGGAGG GAAA A A C G GAAAGAAGGGGGGGGGGGAGAGAAGAAGGAACCGGAAAAAA


 A A G G G G G G G G G G G G G A G G A GA $A$ A A CAA A A A A A C G G GA G C C G G A A AGAGCAGGAGAAGGCCGGAAGGAAAGGAACGAAGAACAAABA
$A G C C A G G A A G A C A G A G A G A A A A G A G G G A A A G A A G G G G G G G G A$ $A C G G C A A A G G A A A A G G G G A A G G G G A A A C G A G G G A A A G G G G A A$

 G GAA $A \operatorname{GAA} A C C C A A G G A C A G G G G A G G G A G G A A A A G A G G T T A G$ A A G G A A G G G GCCGGAGGGCCAGGAAAGGAAAAAAAGGGAGGG A A A A A A ACCCAGAGGGAAAAAACCCCGAGGAAGGGAAGGGGG AAAGAGAAAAAGCCAGAAGAGAACCCGAAAGAACAGCCGGCA G GAA $A \operatorname{GAAAAAAGGACAGAAGGGGGGGACGAGGGAA} G A A G G A G$ G GAGAAAACCGAAGACGGAGAGACAGAACCAGAGAAGGGGAA C C A G G G G G G G G GAA A G G G G G G G A A A A A A A A G G G G G G CA CAA A
 $G G A A A A A G G G A G G G A G A A G A A A G G A A A A A A G G G G A A G$
$G C C A A A A G G A A G G C C A A A A A A G G A A G G A A A A C C A C A A G C G A$ $G C A A C C A A A G G G G A A A A A C C G G G G G G A A A A A A G A G A G G A G C A$ A G GAA A A A GACCGGGGAACCAAGGAACAGGAAAAGACC GAA G C C GAGGAAGGCCGACCCAGGGAGGGAGAGAAAAAGAAAAAAA G G A A A A A A C A G A A GAGGAAGAAAAGGAGCCCAGGGAAAGABA GAGAAAAAGGAACCGGGAAAGGCCGGAACCGAGGAGAAGAAA G G G G G A G G A A G G A A G G A A A A A G GAGAAAGAACAGAAAAAAG G AAGGCCAAGAGAAGGGGAAAGGAAAAAAAGAGGGGACACAAA A A G G A A A A A GA A G G G G GAGGGGAAGAAAAAAGGGAAAA G A A A A G G G G G G G G G G A A G G G A A A G G C C G A GAG GAA A A A CAACA G G C A A A A G A A A G G G G G A G G G CAAAAAAGGGGCCGAAAGGAACAAAA G A A G G G G G G G A G A G G A G G A A A G G G A G A GACAACAAG GAC G G C C AAAA A A A A A A G G G GAGAGACGAAGCAGGGGAGGAAAGGGGGA G GAGAGAGAAGGGAACCCGGAGAAGAGGAGAAAAAGGGCCAA $A G G G G A A A G G G G G G A A C C G G A G G G A G A A A A C G A C A G G A G G G G$ A A A A A A A G A G A A GCA G G GCAGGGAGACAGGGGAAAGA GAGAA A G G A A A C CAAAAAA A $A \operatorname{A} G G G G G G T A G A G G G G A A A A G G G G A A A A$
 $C C G G A A A A G G A A A A G G G G A A A A G G A G G G C A G A C C T A A G G G G A$ GAA A G G GAAAGGGGAAACGAGGGGAGGGGGGAGGGAAAGGAG A GAAAAGGCCAAGAGGGGGGACAGGGAGAGAAGGAAAAGAAC C C A C A GA $\operatorname{CA} A G G G G G G G A A G G A A G G G G G G C C A G A G A G G G A A A A$ G G G G G G G G G G G G A A A A A A A G G G G A A A A A G A G G G G A G A A G A G G A A G G A A GAGGGGGGGAAAACCCCAAGGGGGGGACCAAACGGGG GGAACCCCCAGAGAGGGAAAGGCCGAAAAGGGAAAAGGGGGG C CAA $\operatorname{C}$ GAA $A \operatorname{GAA} C C G G C A G A A C A A G G A C A A A A C A A G G G T T G G$ G GAA $A \operatorname{GCC} G G A G C C C C G G A A G A A G A C A A G A G A G A C C A G G G G G$ G GACAAGAGGAAAAAAGGAAAAGAAAACGAAAGAAGGAGGGG A A G A A G A C G A A A G G G A G G G G A G A G A A A C G G G A C C G A A G A G G G G GAAAGCCAAGGGAGGAGAAGGGGGACCGAGGGGGGGAAAGG G G GACCCCAGGGAACCGGGGGGGGAAGACCGGCCAAAAAAAA GAGACAACGGCCCCGGGGGAGGGGGGCCAGACAAAACGAGCC GAACAAGGAGGAAACCGGGGACGGAAGACCGGGAGACCAGAA A A G G G G G G A A G G G G A A G G G G CA A G A A A A A A A A G G G G G G G G A A G GAAAAGGAAGGGGAATTGGAGGGAAGAAAAAGAAGCAAAGA G GAGAAGGGGCCAAGGCCGAAGAACCAACCGGAGGGAAGAGA
 A A A A G A G G G G A A G G G G A A G G A G A TAGCCGGGAACAAGGAGAA G G G G A A A A G G G G G G GAAA A G G G A A G G CA A G GA GAA A A G C C G A A G G G A G G G A A A G A A C C A A A A G G G G C A A G G G C C G G C C G G G G G C AAAGACGGCCCAAACCGAAGAAAAGGGGAAGGGGGAAAGGGG A A A T G G A A G GAAGACAAGGAGGAGCCAAGGCAAGAAAAAAGG GACCGGGGAAAAAAGAAGGGAAAAGAAGGAAAGGA GAAAGGG GAAAAGAGAAGAAGACGGGGAACCAAGGAAAGAAAAAGAAAA A GAACCCCCCGGAAACACAGAGAGAAGGGGGGGGGGAAAAAA $C \subset G G A A G G A A A A G G A A A A A A C C G G A A G G A A A G C G A G G A G A A G$

A GAGGGAAGGGAAGAGACAGAAAGGGGGGAGAAAAAAAAAAG A G A A G G G G A A A A C C A A $\mathcal{A} G A A G G G G G G G G G G A A G G C C A A G G C C$ C C G GAAAAGGAACAAGAGAAGAAGGGGAGGGAAACCGGCAGA AAAGCAGAGAAAGGCCGGGAAGGGAGAAAGGAGAAGTAGAGA G GAAAAGGAAGGCCAAAAGGGGGGGGGGGGGGGGGGAAAAAA A A A A A ACCAACCAAAAAAGGAAAAGGCCAAGGAAAAAAGGAA G G A A G G G G G G G G G G G G A A A A G G A A G G G G G G C A A A G A G G G G C G $G G A A A A A A G G A A A A A G G G G G A G C C G G A G A A G G G G C C A G A G A A$ AC G G G G A A A A A A A A $\mathcal{A} G G G G G C A A A G G A G G G G A G A G A A A A A A A$ G GAGGAGGCCAGGAAAAAGGAAGGAGGAGAGGGGAGACAAAA A GAGAAAAAAAAGGAAGGGGGAAACCAAAAGGAAGAAACACA G G G G G G G G GAACACGGCCAAAAGGGAGAAGCCGBACAGAGGG G G G G G G A C A GAGGAGGGGAAGGGAGAAGGGGGAAAAAAAAAA GAGGGGGGGGGGAGCAAGAGAGAGAGGAGGGAAGAGAAAAAG G GAACAAAAACAGGAAGGGGGAGGAAAGAGCCBAGGGGAGGG
 GAAAAAAAAGGGGGGAAGGGGAAATACCCAGAAAAAGAAGAG A A GAGGGGAGAGGAGACCCCAAAAAAAAAAAAGGCCAACCBA AAAAGGAAGGAGAGCCGAAGAGACGGGGGGAGGGAAAAGGGG A A A G AC GCAA GATTAGAAAGCACAAAAAAGAGGAGAGAGAAA GAAGGGAGCAAAGGAAGGGGAACCGGAAAAAAGGAAGAAAGG AAAAGGGGCCGGAAGGCCGGCCGGAAAAAAGGAAAAAAGGCC A A G G A A A A G GCCGGAAGAGGCCAAGAGGAGAAAGGAGGAGAA G G A G G G C C G G A A G G G G G G G G G G G G A A A G G C A A G G A A C C G G G G G G G G G G G G G G A A A A A A A A G A A G G G C C G G A G G G G G C C C C C C C C GAAGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAAGGGGG $C \subset A A C C A G C C G A A A A G G A G G A C G G G A G G A A G G C C G G G A G G A A$ TA G GAA A GAAACGGACAAAAGAAAAAGAGGAAAGAAAA GAAA A A A A A A A A A C G G G GCCGGAAAAAAAAGGGGAGGGAGGAAGAG A G G GAA A GAGGACAGAGAGGACGAGGAGGGTAAAAGGAAGAA A G G G A A G A C A A G G G G G G A A GAA A G G GAGAAAC GAAACAAAAA C C G G G GAAAAGGGAAAGAAGAGAAGGAAAAAAGACAAAAGGG A G G A T TC CAACAAGGAGAAACCACGAGGGGAGGGAAAACACC
 C C A A A A A C G G G G G G A C G G A G A A G A A A A G G G G G G G G G G G G G A A GAACAGCCGGAAAGAGACGAGGGAGGCAACGGAACAGGAAGG G G GAGCAGAAGGAGAAAGGCCCAAGGGAGACAGGAAGGAAGA G G G GAGAGGGGGAAGGAAAAGGGAAGGAGAACGAAAGGGGGA G G G A G A G A G G G G G G A A A G C C A A G GA GAA A A A A G G G G G G C C A A G GAA $A \operatorname{GAA} A A A A G G G G G A C A G G C A G G A A G A G A G G G G G G A G A C$ $G G G G A A G G A A G A G G A A A A G G G G G G G A A A A T A G G G G A C C A A A A$ A G A A A A A A A A G G T A A CA A GAGGGGAAGGGGCCAAACGGA GAA A G G G G GATCAGAGAGGGGACGAACAAAGAAAAAAGGCCAAAA T TAAA A G G GAATAACCGGCCGAAAAGGGGGGGAGAAGGAAAA A A G G G G G G G GAA A A GAGAAGAGAACAAAAGAAAGAGAGAA GA A A A A A A G GCCAGAGGACAGAAGCACCAAGAAGAGAAAAGGAA $G G A A A A A G G A G A A G G G G G A A G G C C G G G G G G A G A G G A G G A A A A$ AAAAGGGGAGCCGGGAGAGGCCGGAAACGGGGAAGAAGGGAG GAAA A G G G A A G GAAAGAAAGAGGAGGGGAAGGAACCGGGGAG GAAAGGAAAAAAGAGAAGGGAAGGCCGGAAGAACGGGAGGAG G G G G G G G G A G A A A A A G G A G G G G A G G GA GAAA A A C G GAAAA $A$ A AA $\operatorname{A} G C C A A A A C C G G G G G G A A G G G G C C A A G A C A G G A G G G A G G G$ G G G G G G G G G G A A C G G A C C A A A A C A A G G G G G A G G G G A A A G A A C GAAAGAACAGAAAAGGGGCCGGGGAAGGGAGAAGAGAAAAGA $A A G G G A C C G G G A G G G G G A G G A A G G A A A A A C G A G A A G A C G G G G$ AAAGAAAACCGGAAAAGGAAAAGGAGGAGGACGBAGAGAGGG G G G GCAGAGGAAAAGGTAACACGAGGAAAAGAGBAAAAGGGG A A A C G G GACCAACAGGGACCCCAAAAGAAAAGAGAAGAAA G G AAAGAAAAGGAAAAGGGGAAAGAAGGAAGAGGAACACAAACA

A GCCAAAAGGGGAAAGGAAAAAGGAGGAGAAGACAAGACCAA C C G G C A A C A A G A A G G A G G G A G G G G G G C C G G G G A A G G G G G G C C G G G A A C G G G G G GA $A$ A A $\mathcal{A} G A A G G A A G G G G G A A C G G C A A A A G A G$ A GAA A A G G GAGGAGAGGGGGACAGGGACAGAAAGGGAAAGAG AAAGAGGGAGAAAAAAAAGGGGGAGGGGAACCAGGGAAGGAC G G A A A G A A A A A A A A G G A A GAGAAAGAGACAGAAAA GACCGGG CAGGCAAAGGAGGGGGAGAAAGGGAAGGAAGGCCGGAGAAAG AGAAGGAGGAAAAAGAGAGACCGGCCAGCCAAAAGGACAGCC A G G A A A A A G G G G G G A A G G A A G G A G G G A G A G G G G A A A G G G G G G AAAAGAGGAAGGCCAAAGAAAAGGGGGGGAGGGGAGGGGAGG
 A A G G A A A $\mathcal{A} G G G A G G G G G G A A G G G A G G G A G G A G A A A G A G A A C C$ A A G G A G A A G G G G A G G G A C A A A A A A C CAACCGGGGGGA
A G G G G A A A A A A A A A A A A G GAA GAGGGGCCAAACAGAAG GAA CAACGAGGGGAAAAGGAACAAGGGGGGGCAGGAAAAAGAGAA G GAAGGCCGGAAAGGAAGGGGGAGGGGGAACCGAAGAAGAAA A A G G A G G G GAA $A$ A A $G A A A G G A A G G G G G G A A A A G G G G A A A A G A A$ G GAAGGGGCCCCAAAAGGCCAGGGGAAGCCAGGAAGAAGAGG GAGAAAAGAAAACCGAGGGGGGAGAAACGGGGGGGAAACCGG A G G G G GAAAAACGGAGAGAAAAGGAGAGGAGAAGGGAAAGAA C C G G G G G G A A A A A A A A G GAA A A A A G G G G A A A A G G T T G G G G A A GAGGGAGGGGCACCGGAAGGGGGGAAGAAGAAAAGGAACAAA G G G GCCAAGCAAGAGGGGAGAACCGGGACCCCAGGAGGAAGB CA $A G A G A A G G G G A A A G A A G A G G A G G G A A G G G A A A G G A G G G T T$ A G A G A A A C G G G G G A G G A G A G A G A A A G A A G GAAA A G G G G A G A $G$ ACGGAAAGCAAGGAGGGGAGGAAAAGGACCGCGGAGGGAAAG A GCCAGGGGGAGAGCCGGACAGAGGAAGAAAGGAAAGGAGAA C C G G G A C A A A G GACAGACAACCGGGGGAAAGGAGAAAGAAGA A GAGAGAAACGGAGGGGAAGAAAAGGGGGGAAGAAAGAACGG A GAA A A A A G G G A A A G GAAGGAGGGAAGGAGGAGGGGAATTAA A A G G A A A GCAA GCCAA $\mathcal{A} A A A A G G G G A A A A A C G G G G A A G G G G A G$ G G G GCAAGGAAAAAAAAAGGGGAAAAACAAGGAGAGCAGAAC
 $A G C C A A A G G G A G A G A G G G A A G G G G G G A A A G G G G G A G G G A A B A$ A A A A A A A A $\mathcal{A} G G G G G A G G G A A G G G G A A G A C C A A A G A A A A C C A A$
 A A A A G G G G G GAGAGAAAAGGGGAAGAAGACCCGGCCAAAGGG A GAA $A \operatorname{GAA}$ G GAACCAGCAAAAAAAGGGGACGGAAAAGGGGAG G G G G C C G G C C A G A G A A G G G G G G A G G G G A C A G A A G G C A A T T C C G G G A G G A G A A A A A A A A G G A A G A G A T T A A A A $\mathcal{A} G G G G G G G G G C C$
 A A A A A A G G G G A A A A A G G G C C G G A A A A A A G GAA A A A G A G G G G G A A G G G GAAAAAAAAAAGGGGGGAAAGAGGGAAGGAACCACAA C C C C A A A G G G G G G GAAAGGACCAGAAGAAGAAAAAAGGAGAA
 A A G G G G A C A A A A A A A A A A G G G G G GCCCCGAGGGGAACACAAA A A G A A A G G A A G A C A C A G G G G G G G G A A G A A A A A A A G GA G A C G G ACAGAAAGTTGGGAGGGAAGGGCCGGGGGGAAGGGGAAAAAG GAGGGGAAGGGGGGAAAAAAGGAAGGGGGGGACCAAAGAGAG A GAA A GCCAAAGGAGAGAAAAAGGGGGGACGGAAGGBAACBG C CAAAAAAAACCCCAGAAAACCGAAAGGAAAAAACCGGAAGAG G G G G G G G A G G A G G G A GAA G GAAAAAGGCCGACCCCAA G G G GA G A G G G A A G A C A A A G G G C C A G A G G GAA A A A G A GAAA A G G G G A G A GGAAGGCCAACCAAGGAAGGGGAAGGAGGAAAAAGGAAAAAA A GAA A G GAGGGAAGGGAACCAGGAGGGAAAGGCAGGAAGAAA C C G A G G GACCGAAGCAGACCGGAAAAAAAACGCGGGAAAAGAG A A A A A A A A G GCCAAGGAAGGGAAGGGCCGGGAAAAGGAAGAA $G G A A G G A A A G G G A A G G G G A G A A G A G G A G A A G G G A A G G G G G G G$ GGAAAAGACCGGGGAGAAGGAAGGAAGAACAAGGAAAAGGGG

GACCAAAGAAAAGGAAAAAAGGGGGGCCGGAAGGAACGGAAA
 CACCGGCAAGGGGGAAGGGGGGAAGAAGAAGGCCGGGGAAGG G G A A G G G G A A A G G A G G G A G G G G G G G GAGGGAGATGAAAACCC AAACGGGGAGCCAAGGAAAAGGAAGAAGGACAAAAGAAAGAA G G A G A GCGAAAAAAAAAAGGGGAGAGAGGAGGGGAAAAACGG G GAGAACCAAGGCCAAAACAAGAAGGAAAAAAGGGAAAAAGAG AGGAAGGGACAAGAGGGGAGAAAAGGCCGGCCAACCCCXGAG A G G G A G A G G G G G G A G A G G A G G A G G G A A G A G C G G A A G G G C C A A G GAACCGGAAGAGGAAGGAAATCACAAAAGGGGGGGGGAGAA
 A G G A A C A A A CAA $A \operatorname{GAAAAAAGGGCCAAAACCGAGGCCACGGGG}$ A A A G A A G G G G G A G G A G A C G G G G G G G G A A A A A A A A C CA G C C A A GAAGGGAGGAAAGGAGAGGGAAAAAAAAGGCCAAGGCAAAGA G GAAGGAAGGGGGGTTCGCCAAGGGGAGGGAGACCCCCCAAA A GAACAGGGAGGACAAAAAAGGAATTAGGGAAGGGGAAAAAA G GCC C G G A C C G G A A G GAGGAGGAGGGGAGGAAAGGGGAAA G G A GCCACAGAAAAGGAGAGGGCAACCAGGAAGGGAGGCAAAAA AAAGCCGGAAAAAACCGGCCGACCAGGGAACCGAGGCCAGGG A G A G A G G G G G A A G A G G A A A A G G A G A A G G G G A A C C A A A A A A A G AGGGAGCCAAAAGGGAAAGGAAAAGGTTACAGAGCCCCGGGA A G G GAAAAGGGGAGACGAAAAAAAGAAAAGCCAAGGGAGGAA A A G G G G G G A A G G G G G G A A GAAAGAAAAGGGGAGGAAAAAAAC C C G G A A G G G G G G G G A G G A G G G G G G G G G A G G A A A A A A G A A A G A
 A GAGAGAAAAAAGGAGAGAAAAGGAAAAGAAGGAAGAGAGGA GACCAAGGGGAAGGGGCCAAGAAGGGAGCAAAAACCAAAGGG CAACGGGAAGGGGGGGAGGAGAGGAAAACGCCAAGGGGAGAA A A G G G G A A A A G G G G G G G G G G A A A CAGGAAAGAGA G GATAA GA GAAGGGGGACACGGAAAAAAGGAAAAGAAGAAGGGAAGAAAA GAAGAGAAAAAAAAAAAAAAGGCCGAGAGGCCAAAAAAAAGG $C \subset C A A C G G G G A A A G C G A G G A A A A C A A G G A A A A C C A A G G C C G G$
 $G G C C G A G G A A A G G A G A A G C C A G G G G G A A A A A G C A G A A A G G A C$ GAAAGGAAAAGAAAAGGACCGGAAGGAAAGAAGGCCAAGGCC ACAGAACAGGGAAAGGAACCAAGACCGGGGCCAAAAAGGGGA
 A GAGAAGGCCGGGGGCGAAGACAACCAAAGGGGGGGAGCCGG G G A G A A A A A A G G A A A A A A A C C GAGAAAGGGAAAAA G G G G GAA A G G G G A A A A G G A G G G A G A A G G G G A GAGGAGGGGGGAAAAAAA A A A A A GAGGGGGAGACAGGAAGGAAAAAGGGAGAAGAGGAGAA
 G GAAAAAAGGGAGAAGGGACGGGGGAGAACGGGGGGAAGGCC GAAA $A \operatorname{A} A A \operatorname{A} G \mathrm{G} A A A G A A G G G G A A G G A A A A A A A A G A G G A G A G G G$ $G G A A A G G A C C A G G G C A G A G G A A T A A G A G G G A A A G G G G G G G G G$ $A C \subset A G G G G G G A G C C A A A A A C A G A A G G A A G G A A G G A A A A A A G G$ A A A G G G G A GAGGGGAACCAGGAAGGAAAAGGGGGGGCAAA G G $A C G A A G G G G G G G A A G A G A G G G A A A G G A G G G A A G G G A G G A G A C$ A GCCAAAGAGGAGGAAGGGAAACCGACGAAAGGGGCGAAAAA A A G G G G G G T T G G G GCCAAAAACGGAGAAAAGGGGAAAAAAGG G GAAAACCGGGGAAAGGGAACCAAGGGAGGCCAAGGAAAAAG
 A G A A A A C C G G A G A G A G G G A G G G G G G G G A C A G A A G G G C C G G T T $C \subset A A A G G G C C G A G G A C A A G G G A A G G G A A G G A G A A A A G A G A G A$ GAAGGAAAAGAAGGCCAAGGAAAAGGGGGGTTAAAAAAAAGG A A G G G G G G G G G A A A $\mathcal{A} G G G G G A A A A A A A A A C C G G G G C C G G A G A A$ AACCAGAAAAGAAAGGAGAAGGAAACGGCCAGAACAGAAABG A A A A A A $\operatorname{A} G A A G G G G G G G G G G G G A A A A G G G G G G A A G G G G G G G G$ $A A C C G G A A G G A A A A T T A A A A G G G G A A C C G G A A A A A A C C G G G G$

G GAA A GAAGGGGGGAAAAAAAACCAAGGAAGGAAGGAAGGCC
 G G A A G G A A A A C C C C G G G GAAGGAAGGCCAAGGAACCAAAAAA G GAAGGCCGGGGAACCGGGGCCAAGGAAGGAAAACCAAAAGA A A A A G G G G A A G G G G G GAA $A G G G G G G C C A A G G A A A A A A C A A A C C$ AAAAGGGGGGGGAAAAAAGGAAGGAAAAGGAACCCCAAAAGG G G G GCCAAGGAAAAAAGGGGGGAAGGAAAACCGGAAAAAAAA G G G G G G A A G G G GAAAAAGGGGAAGGAAGGCCGAAAGAGAGACA G GAGGGGAAAGAAAGAGACCAACAGGAAGAGGGGAGAAGAAA A GAAGGAGGAAGGGGACCAAGGGAGAAGAGGGGGAGAGAGAA G G G G G A A A A GAA $A$ A $A C A G G G A A G G G G G G A A G A G A G G G G A A G A$ GAAAAAGGAAGGGGGGAGCCAAGGAAGGGAAAAAAAAGGCCA A G G G GCCC GAGGACGGGGGGGCCCAAAAAGCCAGCCA
 A A G G G GCC C G G A G G G G G GA G G G G G G A G GAGAGGGGGCA GAAA AACAGAGGAAAGGGGGAGGGGGGGGGAGAAAGAAGGAAGAAA G G GACCAAAAAGGGAGAGAGAAGGGAGGAAGGACAAGAAAAG AAAAAGACGAGGGGAAAACCAAAAGGAGAAGGAACAACAAGAG AAGGAAGAGAAGAAAAGGAACAAGAAGGGACCGAGGAAGGAG
 G G G G GAGGCAGGAGGACCGAGAGGAAGAGACAAGAGGAGGGG
 AACCGAACAAGGAAGGCCAAAAGGAAAAGGGGGGCAGGGGAG A A G G G G G GCC G A A A G A G G A A A A C C A A G GAGGGAGGGCC G GA A A A G GAA A G G G A A A GAAAAGGGGCCAAGACACAAGGAAAGGAG C C A GAGGGCGAGGAGGAAGAGGGGAAAAAAGAGAAGGGGAAA G GAAAGGACCAGGGAAGGGGGAAAGGCCAAAACAACGAGAGA A G G G A G A G TA $A \operatorname{GGGGAAAAAGAAAAAGGGGAGGAACAAAACAC}$ G G A A A G GAAGGGGGAACAAACAAAGGGGAAAAAAAAACAAGB $G G A G A C G G G A A A G G G G A G G A C A G A G A A G G G A G G G A G G G A A G A$

 GAGGGGAAGGGGAGGGGAAAAAGGGGGAGGGAAAGAAAAGGG
 GAGGGAGGAAGGGGGACAAAAAGGAGATTTGGGGGGAAGGAA G GAAAACCAAAAGGCCGGCCGGAAGGAACCAAGBAAGGAGAA A A A A A A A A G GAACCGGGGGGGGGGCCAACCGGAAGGGGAAGA $C \subset G G A A G G A A A A A A C C A A A A A A A A A A A A G G G G G G A A A A G G T T$ G G A A C C A A G G A A A A A A A A A A C C G G G G G G G G A A A A C C G G G G G G G GAA A G G G G GAAAA A GAAAAACCGGGGAAGGGGGGGGGAAAAA A A A A A A A A G GAAGGGGCCAAGGGGGGGGAACCGGAAGGAAAA A A G G G G G G A A A A T T G G G G C C C C G G G G C C A A A A C C G G A A A A A A AAAAGGAAAAAAAACCGGAAGGGGAAAAGGGGCCGGGGTTAA G GAA $A \operatorname{GAA} A C G G C C A A A A G G A A A A G G C C G G A A A A G G G G A G A A$ A A A A G G A A G G A A C C A A G G C C A A G G A A G G G G A A A A G G G G G G A G G G G A G G A A A C G A A G G G A A G GAA $A$ A A G G A A A G A G A A G G A A G G G G A A A A GACCGGGAAAAGGGCCAGAAAAAGAGAACAGAGAAGAA AGAGCCACGGAAGGGAAGAACCAGAAGAGACCCCGGGAAAAG A A A A A A A A A A A A A A GAAAAAGAAAGAGGGGGGGGAAAAGGGG TACCGGAAGGAATAAAGGAAAACCAAGGGGAAGGAAGGAAAA A A G G A A G G A A A G G G GAGGGAACAGGACAGCAAAGGGGCAAAA A GAGAAAAGGAAGGGGAAGGAAAGAGAAGGGGGCGAAAAAAAA
 G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG $C \subset C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G G A A G G$ A A G G A A A A G GAAAAGGGGCCCAAAAAGGGGGGGGAACCAAAA GA GAAA A A GAGGAAAAAAAAAAAGCCAGGGGGGGAAGGAAAAA CAGAAGAGGGGACCAGACGAGGAAGGGGGGGGGAGCACACAG

AAGCAGAGGGAGGAAGGGCCCACAGGCCCAGGAAGGAAGGGG AA $A \operatorname{GGGAAA} G A A G G A A A A A A C A C C G A A A A A A A G G G G A A A A G A$ A A A GAAGAGGGGGGAAAGGACCCAGGGGGGCCAAAAGCAAGG C C A GAGGGAAAAGGAACCAAGGCCAAGGAAAGGGGAAAAAAG A A G GAA $A \operatorname{A} A A G G G G G G G G G G A C A G G G G G C C A A G A A G A G G G G G$ GAAAGAAGAAAAAAAAGGGGGAAGAAGGATCAGAAAGBACAA A A GAAAGGAACCAACCTTAAGGAGGGCAAAAAGAGGAACCBG GGGGCCTTGGAAAAAAAACCCCAAGGGAGGAAAAAAGGGGTT A A C C A A C C A A A A A A G A A A A G A A G G G G G A A A G G G G A G C A A G A G CAGAAAGGAGAAAAGGAAAGGAAGGGGGGAGAAAAGCCAACA A A G G G GAA $A \operatorname{GGGGGCCAGGACCGGGGGAAACCGAAGAGAAAA}$ G G A A A A G A GACACAAAAAAAAAAGGAGGAACACCCAGGAGAA A G A A A A A A G GCACACAACAAAACCGGGGAAGGATAAGAAGAA
 G G G GCCAAAAGGAAAAAAGCGGGGAGACACAAGGGACCGGGG G GAACCGGAGGGGAAGGGGGGAAAAAAGAGGGGGGAAAGGGG
 A GAGGGCCACAGAGAAGGAAAAAAAGAACCGGAAAGGAGGAA $A G G A G G G G C C G G G A A A G G A A A G G A A A A G G A G A G G G A A A G G G G$
 AAAAAAGGGGAAGGGACCAAAGAAAAAGGAGGAAAGAGAAAA A A GAGAGGGGAACACCGGGGGGCCGGAAGGAAAAGACAAAGG GAGGGGAAAGACGGGGCCCCAAACGGGGGAAGGAAGGAAGAC

 G GAACAAAAGAAAAGAAACAGAAGGAAGGGCACAAAAAAACC G G T TC CAGGGACGGGGCCAAAAGGGGCCAAGGCCGGAAGGAA C C A A G GCACCAGAAGGAAGGGGAAGATTCCGAGGGGAAAAAA A A A A A A G G A GAAAAGACCAAGGGGAACCAAACGGGGGAAAAA G G G GAAAC GACCGGGGGAGGGGGGAAGGAACCCCAAGGAAAA G A A G A A A G G G G G A G G A G G A A G G G A G G A G G C C A G G G A G G A A G G AACCGGGGGGAAAGCCAAAAGGGAAACCGAAACCAGGGGGGA GACCAAGGGGAAAAAACCAACCGGGGGGAAGGGGGGGAAAGA G GAGAGAGCCGGAACAAGAAGAAACCGGCCGGGGGGGGAGAA G G A A A A A A G G A A A A A A G GA GAAAAA A AA G G G G G GAAAAAAAA GA GAGAAGGAAAAAAAAAAAAAGACCGGGGAGAGGAGAAGAAG A G GAA A A A GAGGGGCGCAGGCCAGAAAGAAAGAGAGACACAG GAAAGGGGAACCGGAAAGCCGAGGGAACAGGGGAAGGGAAGA A G G G A G A G A A A A G G A A A A C C A A G G GACCAGGGGGCCCCAGAA $A C A A A G C A A A G G C C A A C C G A G G G G A A G G A C G A G A A A G G B A G G$ $C \subset G A A G A G A G A A A A A A A G A G G G G G G A G A C A A G C A G A A A A G A A$
 CACCCCTTACCCCCGAGAGAAAAGCAGAAGGAGGGGACAAGB G GCCGGGAAAGGAGGGCCAAGGGGGGAAGGACAAAGAAAACC A A G G A A G G A GCCAACAGAGAAGAAAAGAGGGAGGTTAAAGAG G GAAGAGAGGAAGAGGGAAAGGAAAAAAGGAGACAAAAAGAA CCGGGGAAAAGGGAAAGGGGAGGAGAAAAAAAAGAAAAGGAA G GACGGGGGGAAGGGGACGGGGAAAAACAGAACCGACCAAGA G G G GCAAGGAAGGGAAGAGGAAAGCCAGGGGGACAAAAAAGA GAAGAGCAAGGCAGAAAGAGAGAACCGGAGAGAAGGAACAAA A A A G A CAGAGGGAAGGAGGGAGGGCAAGTTAGAAAAAGAAGA A GAA $A \operatorname{GAAAAAAACCAGAGGGAACAGAGGGAGGCCGGGGAAAA}$ G GCCGGAAAAAAGGCCAAGGAGAAAAGGAAAAAAGBAAAAGA C A A A A C G G A G G A G A GAA $A \operatorname{GGGAAAAGAAGGGGGAAAAAAAGGA}$ ACAAGGGGGGAAAGGACAAGGAGGCAAACGAAAGAGAGAGAA GGGGCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAGGAGGA
 A GAAGCAGAGAGGCGGAAAAAAAGAAGGAAAGAAAAGGAAAA T TAAAAACACAGAGGGAGGAAGACCCGAGACACCCAGGTTGG1

GAGAAAAGAAAAGGAGAGGAGGAACCGAAAAGAGAGAGAGAG GAGGAACCGGGGGGGGAAAAAGGGCCGGAGAGAAGGGAAAGB G GCCAAAAAAGGGGAGGGAAGGGGGGAGGGGAGAGAAAAAGG A A A G G GAGAGGAGGGGGGGGAGAAGGAGATACAGGGAAGAAA G GAAGGGGCCAAAAAGGGAAAAAAGGCACCAGCAAAAAGGGA GAAGGAGGCCCAGAGGGAAACCAACATTAAAACCGGGGAAAA
 AAACGAAAAGGGCCAAAAAAAAAGAAAAAAAAGGGGGGAGAA GAAAACAGCCAAATGAAAGACAGCGAGAGGGGGGAAGAAAAA A A A A ACAAACGAAGCCGGAAGACCGGAAAAACAAAAAGGGAG A A CACAAA GAAAAAAAAAAAGGAAAAAAGGCAAGGAAA G GAC A A G GAGACCCAAAAAAGGAGGGAAGGGGAAAGGGGGAAGGAG C G C C G G G G A A A A G G G G G G A G G A G G A A A G A GACAAA A $\mathcal{A}$
GAGAACCGAGGGGAAGGGGCCGAGGAAGGAATAACGGAGGG A A A A G G G GAA $A \operatorname{AGG} \operatorname{GAGAAAAGGCCGGGGGAGAAAACGGAAGA}$ G GAAAAAAGGGGAAAATTCCGGAAAAAGAATTAAAAGGAACC C C G GAAAAAGGAGAAGAGGGAAGGAAGGAACCAAGAGAGGGG ACAAGGAGCCAAAACCAAAAGGGGAAAGCCGGAAAGCCAGGC GGGACAGGAAAAAACCCAAGAAAAAAGAAGGACCGAGCGGCC C C C C C C C C G G A A G G C C GAGGAGGGGGAAAACCCCAAAAAGAG GGCCAAAAAAAGAGAAGGAACCGACGGGTTGGGGGGAAAAAG
 G G A A G G A A A G G A G G G G A G G A T T G G A A A A G GAAA $A$ A G G G G C C A G A G G A G GCCAGAAAGGGAGGGAGACACAAGGAAGBAAGGCCGG C C G G G G A C A GAACA $A \operatorname{A} G A A G A A A G G G G G A A A G A A G A A G A G G G G$ C C A A A A A G A GA G G G A G A G G A A G G A G G G G G C G G A G C A A A G G G G $C C G G A A A A G G C A A A G G A A G A A A G G G C G G A G A G G A A A G G A G A G$ A G G A G GA GAGCCGGGAAGACAAGGCCCCGGAGAGAAGGAGAA G G A A A A C C G A G G GAGGGGCAGGCCAAAAAGGAGGGAAAAAAG AGGAACGGGGCCAGAAGGAGGAGGACGGGGAAAACAAAAGAC A CAAAAAAGGAAAAAGCCAGGGGGAAAACCGGGAAGGGAABA G GACGGAAAAAAGGGAGGAGACGGGAGAAGAACAGGAGAAGG A A G G G GACGAA $A$ A A G GAAAGAGGAGAGGAGGAACCGGA GAAAA

 G G G GAAAA $A \operatorname{AGGGAA} G G A A A A A A A A A A G G C C C C A A A A G G G G G G$ G GAACCAAGAGAGGCCGGGGAAGGGACGGGAAGAAGGGGGAC
 A A G G G G A A A A G GAA A GAAAACCGACCGAAACCGGGGAAGAAA GA $\operatorname{G} G A A A G A A G A A A G G A A A A G G A T G A A G A G A G G A A A A G G G C C$ $C C G G A G A G A A G G G G A G G G A A A G G G G G G G A G G G A G A G G G G G C A$ A G G A A C A A G G G A A A C G A G GAAC G GACAAAAGGGGGGA GAAC C AAAGAAGGCCAGAAAAGGGAAAAGAAAGCAAAGGGGGGAATT G G G G G GAA $A \operatorname{GAAA} A A A C \subset A G G G A A C C G A A A G G G A A G G A G A A G$ A A G G G G G G GAGGGGGAAACCCCAGGGCAAACCAAAAGAGAGG C C G GCA G ACCAACCGGAACAGGCATTGAAGCCAAGCCCAAGBG G G A A A A A G A G A G G G A A G G G G C C G G A A G G G G A A G A A A G G A A A G ACAAGGGACCGGAAGGGAGGGGGGAAAAAACCGGGGAAGGAG A G GAA A G G G GAAGGAAGGAAAAGGAACCAAAAGGGGAAAGAA
 $A G T T G A G G A G A G A G A A G G A A G G A A G G A G G A G G A A A A G G A G A A$ CAAGAAAAGGCCAGAGAAAAGAGGCCCCGGAAGAAACAAAGAG A A A A A A A A $\mathcal{A} G G G A A G G A A G G G G A A A G A G G G A G A A G G G G C C G G$ G G GACCGAAACGGGAGAAGGGGGAAAGGGGCAGGAAAGBACA TATTAGAGCCACCAAGGGCCGGAAAAGGCCGGGGAACCAAAA G GAAAGGGCCGGGAGCGAACAAAAGGGAGAGAAAAACACAAA G GAACCAAACGAGGGAAAAAAGACAAGAGGGGGGGGTTAAGAG C G G A A G G G A A G A A G G G G A A A C C G G G GAC G GA G CA GACA G G G G A A G GAAAACCAAAAGGAGGGAAGGAAAGAGGGGAAACCCAAA

G GAGCAGAAAAAAAAAGGGAGAGGAAGAGGAAAAGGGAGGGG
 GACCAAGGGGAAGGAGGGGGAGGGAGAAGGACAGAGGGAGAA G GAAGGAACACAGATACAGGCAGAGAGAGACAATAGGGAAAA G G G GAA AGCCAAGAGAAAAGCCGGCCAGAACCAAACCCAAGA A A G G G G A A A G G G G A G G G G A A A G A G G G A A T T G G A C A A A A A A G G C C G A G A A A G G G GATGGACAGGAAAGAAAAAGGAATTACAA GA AA $A \operatorname{GAA} A G G A G G A G G C A A G G C C C C A A A C G G G G G G A A A A G G A A$ A A A A A GAAAGGGGAAAAACCGGCCAGAAGAAAAAGECAAAAA TTAAAAGGCAAGCCAACAGAGGCCGAGGGAAGGGGAGCACGG
 AA GAA A A G GAGAAAAAAAAAGAGGAAGAAGGGACGGGAGGCA A A C C G G A A G G A G G G G G G G G G C C A A A A A A A A G GC C A A G G G A G G A A GAAACCGGAAAAAACAAGAGAGGGAGGGCGAGGGCCACAA G G GAA $\operatorname{GA} A C C A A G G G G A A A A A A A A A A A G A A G G A A A G G G G A G G$ AAAAGAGGGAAAAGAAAAAGATAGGGAAAAGGAGAAGGAGAAA A A A GAA A GAGACAGCCAGGGAAGGCAGGGAGAGAAAAGAGAA G G A A A A ACGGCCAAAACCCCCCGGCCAAGGCCGAGEAAAGAA GACCAGGAGGAAAAAGAGGGAAAGAGAGAAGGAGGACCAGGA A G G G G A A A A A C C A A A A A A G GAA A A A G CA G GAGGGGGAGAA GA A G G GAAAAAGGGGGCCAAGGAGGGGAAGGGGAGAAGAAAGGG A A G G G A A A C G A G A G G G G G G G G A A G G GCC G G G A G G A A CA A A G G A G G A G G C C G G A G G G A G G G A G C C A G G G G G C C G A A A C C A T G A G G
 G G A A A A G G A A A A G G A G A T G A G GCCAAGGAAAGAGGGGGCCAG A A G G GAAAGGGGGGAAAGAGAAGGAAAGGACCGGGGAAAAGA A GAAAA A A GAAAGGGGAAAAAAGGAGAGGGGGAAAAGGACAG A A A G A A G G A A A A G G A A GAGGGGAAGGGGCCCCGGGGGGAGAA GAGAGGGGACGAAAGGAGGAGGGGGGGGAAAAACGAGAGGAG GAAAAACCGGAGGGAAAGGGGGAAAAGAGGAAGGGAAGAAAA G GCCGAGGAAGGAAGGGGGAAGACAGAAAAGGAAAAAAAACC G G G G G G G A G G G G C A G A G A A A G G G G A A A GAGGACACAAAAA G G


 G G A A A A A A G GCCAA A A G G G G G G G G G G G G A A G G A A C C T T G G G G AAAAAACCGGGGGGAAAAGGAACCAAAAAAAAGGAACCGGCC A A A A G GAA A GAAAAGGGGGGAAAAGGCCAAGGAAAAGGAGAA
 A A G GAA A GAAAAAAAACCGGGGCCAAGGAAGGGGGGGGAGAA T T G G G G A A G G A A A A G G G G G G G G C C C C G GAA $A \operatorname{AGGGCCGGAGAA}$
 G G T TAACCAAAAGGAAGGGGAAAAGACAGGAAA GAAGGGGAC GAAAAATTCAGGAGGGAAAAAGAAAAGGAAGGAACCAAAAAA A A A GAAGGAGAAAAGGAGCCAAGACCAAGAACAAGGGGAGAA G G G G G A G G G G G A A G A G G A G A A G G A G G G A GAC CA A G G A A A G G A A A A A G A C A A A A G A G G G A G G G A A G G GAGAAGGGGGAAA GA A A C AACCGGAGCAAGAGAAAAAAGGAGAGGGGGGGAAGGCCAGAA G G G GAAAAAGAAGGAAAAACAGAGGGAGGGGGAACCGGCCGG G G G G A G G A C A G A G G A A G G G G GACCAGAAGGAAGAGGCAAAA G A ACCGGGGGGAAAAGGCCGGAAAAGGGGAAGGGGAAAAAAAA G GAAAAAAAAGGAACCAAGGCCGGGGGGCCAAGGGGCCGGGG G G A A G G G G G G A A A A G G A A G G A A A A A A C C G GCCAAAA A GAA G G G G G G A A A A G G G G A A G G G G A A A A G GCC G G A A A A G G A A G G A A G G G G G G G G G G G G G GAAAAAAAAAGGAAGGAAAAGGAAAACAAAAA AAAAGGGGCCAAAAAACCAACCAAGGAAGGCCAACCAAGGGG AACCGGGGAAGGAAAAAAGGAACCAAAAGGAAAAGGAAAAAA G G A A C C A A G G A A A A A A A A G GAA G G G GAAAA A GAAAA G G G G A A AAAAGGGGAAAAAAGGGGAAAAAAGGGGTTGGAAAAAAAAGG

G G A A A A A A G GAAGGAAGGAAGGAAGGGGAAAAAAAAAAAAAA G G G G G G A A G GAAAACCAACCGGCCAACCAAAAGGGGCCAAGE A A A A A A G G A A G GAA $A \operatorname{GGG} \operatorname{GAAAAAAGGCCAAAAGGAACCAAGG}$
 $C C G G A A A A C C G G G G G G G G G G A A A A C C G G A A G G A A A A A A A A G G$ G G A A G G A A A A G G A A A A A A T T G G A A A A G G G G G G A A A A A A G G G G AAAAAAGGGGAAAACCAAAAGGAAGAAGAGGGGGGGGAGAAA AAAAGGGAAGCAAGAAAAAGGAAAAAAAGGGGGGAAAAAGAA G GCCAACCGGAAAAAAAAGGGGGGCCAAAAGGCCAACCBAAA AACCGGAAAAAACCGGAAGGAAGGGGGGAACAAACCCCGGGG
 G G GGCCAAAAAAAAGGAAAACCGGCCAAGGAAGGAGAAACGG A A C C A A C C G G A A G G A A G G G G G G G G C C C C C C C C G G G G G
GAAGGGGGGCCAAGGGGAAGGAAGGTTGGGGGGCCAAAAGG AAAAAAGGAACCAAAAGGAAAAGGGGGGCCGGAACCGGAAAA A A A A A A G G A A A A A A A A GGAAAAAACCGGAAGGGGAAG GAAAA
 G G A A A A A A A A A A G GAAGGCCCCGGGGAAGGAAAACCGAAAGAG G G G G G G G GCCCCAACCGGGGAAGGAAGGCCAAAAAACCCCGG G G G G G G A A A A $\mathcal{A} G G G A A G G A A G G G G G G G G A A A A A A G G A A A A G G$ G GAAGGAAAAGGGGAAAAAGAGGAAGGGAAGAAGGAGACCAG GAGACCGGGGAAGGAAAAGGGGGGGGAGAGCAAAGAAGAACC G G G GAAAGAAACGAGAAACCCACCAGAAGAAACCAGCCBGAA G G A A G G A A A G G G G G G G G A G G G A G G A A A G G G A A G A G G G G A A A A A A G G G G G G A A G G G A A G A A A CAGCC G GAAAA AA GA G GA GAAC C G G A A G G A A T T A GCC G G A GAGGGGGAAGGAACCAAGA GAAGGG A GAGGAAAGGAGAAGGGCAGCCAAGGAAAAAAGGCCAGCCAA GAGAAAAAGGAGGAGGGGAAGGGGAAGGAAGGCCCAGGAAGG A A A A G A G G A A A A A GAAA $A \subset C G A A G C C G G A A A A G G A A G G G G G G$ $G G C C A A A G G G A A A A G A G A G G G A G A G G G A C A G G A G G G A A C A A A$ G GCCGGGGGAAGACGGAGAAAAGAGAAGCCAAAACACABGAA CACAAGGGAAGAAAAAAGAAGGTTGGAGACCCAGGGAAGGGA CAAA A A A G G G GAA $A \operatorname{A} \operatorname{A} A \mathrm{~A} G \mathrm{G} G A A A A A G A A A A A A G C C G G A A G G G G$ A A G G G GCAA $\operatorname{CA} A \mathrm{~A} G A A A A G A C A A G G A G A G A G G A G G A A A G A G A A$ C C C CAC GCAAAACCAAAAGGAAAAAACGGGGGATACCCBACC $G G C C A A A A G G G G G G A A A G A G A G G G A A A G G A A A G G G G G G A G B A$ G GAAAAAAAAAAAGGGAGGGGAAAGGAAGGAGAAGGGGTXAA $C \subset A A A A A A G G A C A A A A A A G G G G G G A A G G A A A A C C G G C C A A A G$ AC G G G G G G G G G G G G G G A A A A A A $A G G C A A A A A T A G G G G A A G G A G$ GAAGAAGAGGAAACGGAAGGACGGAAAAAGAAGAAGAGAACA A GACAAGGGGAGAAGACAAAGGCCGGGGAAAAAAGGCCAGAA AC GAGGACAGATAGAAGGGGGACCCAGGGGCCCCAACAAGGG A GCGAGAAGGGGAAGGGGAACCAAGAGAGATTACAGAAAGCA CAGAGGAGGGAGGGAACCAAGGACGGAACCAAAAAGAAAACA C CAAAAAAACGGAGAGAAGGCAAAGAGAAAACGGAGGGAAAA A A A G G G G G G G A A A A G G G GAACAAAAAAAGGAGGGGGAAAAAA AAAAAAAAAAGGGGAAAAAAGAGGCAGAAACCAAGGGGCACA A GAAAA A $A \operatorname{AA} A G G G G A A G A A G A G A A G G G G A G A G A G G G A A G A G A$ G GAAAAAGCCCAAAAGGGTTGGACAAGGGGAACCCCGAAAAAA A GCCAGAAAAAAAGACCCAGGGCACCAGACACGGAGCAAGAA GAGAGGGGGGGAGGGGGGAGGGATAAAGAGCAGGCAGAAGAA $G G G G A A A G A A A G A G G A G G A A G A A G G G G G A A G G A A G G A A G G A A$ G G G GAAAA $A \operatorname{A} A \operatorname{A} A A A G G A A A A A A A A A G G G A A G G A A G G A G A G A A$ $C \subset G G C C G G A A A A A A C C C C G G G G G G A A G C G G G G G G C A C A A G G G$ G G G G G G G G G GAAAAAACAGAGGGGGGAAAGAGAAGAAAGAAA A A A GCCAGAAGGGGAAGAGAAGGGGGAACCGGCAAGGGGGGG A G A A C C C G G G A A T T G G A G G A A G G A G G G GA GAA A A A GAA G GA A G G G GC C G G A A A G G G A A G G G GAA A GAAGAGGAGA AA GAA G GA A G G GAAGGGGAAAGGAAAGAAAGGCAAAGAAAAGGGGAACCAG

A GAACCGGGGAAAGACAGAACCAAGAGGAAAAAACCAAGGGG GAA A G A G G G GAA $A \operatorname{ACC} C G C C G G C C G A A G G G A G G G C C G G G G A A$ A A A A A A A A A G A G G G A G G G G G A A G G A GAGGGGGA GAAA GA G G G G G G GAGAAAACCAAAGGAGGAGAACAGGCAAAAACCGGAGGG A G GAACGACAGGGGCCGGAAACGAGAGGCCGAGGAGAGGGAG GAAGAACCGGGACCAGAGTAAAAGACGGGGGAGGAAGGACAA AA G GCCGGGGAACCCAGAAGAAGAAGAAAGAAAA GAAGGGGG GAAACAGAGAGGGAAGGAAGCACAGAAAGGACGAAGAGAAAG G GACAAACAAGGAACAGAAAAAGAGAAAGGAACCGGGGAGGA GAGGAGGAGGAGCCGGGGAAGGGGGACCCCGGGACCGGAAAG A A T TA $A \operatorname{GCGGGGGGAAGAAAGGACGGGGAAAGACCAAAAAAA}$ A A G G G GAAAAGAGGAACCGGGGCCAAGGGAAAAAAATAAACC A A G G A G G G A G A A G G GAGGGGCAAGACGAAAAAGAAGGGAA GA GACAGACCAAGAGAAAAGAACAAGAGGGGGAAGGGGGGACAA A GAGGGAAGGAGAAGGAACCAAGGGGGGCCGAGAACGGGGGG A GAAGAGGGGAGGGCCAAGGAAGGCCAACCAAGGGGGGAGAG AACCAACAGAGAAAAAAAGGAAAGGGAGAATTCCGGAAAAAA A A G G A GAGGAAAAAGGAAGGAAAGGGACAAGGAAAGCCGGAA A G G A C A A C A A G GA $A$ A $A G G G G G G G A G A G A G A A G G A G G A G A A A A$ A G A A A A A A A GACCCAAAAAAAAGAGAGAAGAGGGAAAAGACC AAGGGGAAAAAAGGGGGGGGGGACGAACAGGAAGACAGAAAA G GAGACCCAGGGGGAAAAGGAAGGGGGGGAAGACGAAGAAGG G G C C A A G A G G G GCCAGGGGGCC GAGGGGCAAAAAGAAGAACAC G G A A G G A A G G A GAA A G G G G G C C G G G G G G A G A A G G G A G A G A A A GAGGGGAACCAAAGAGGGAAAGGGGAGAAAGGAAAAGAAAGAA
 AACCAGCAGAAGGGGGAGACGGGGAAGAAGGGAGGAGAAAAA A A G G A A A A GAGGAAAAGGAGGGCCGGAAAAAGGGAAAAAA GA G GAGGGAAAGAAAAGAAAGGAAGGAAAGGGAAAAAGGAGAAA AAAAGGAAGAAGGGACGGGGGGAGGAAGAGAAAAAAGGAGAAA G GAGGAAAAAGAGAGAACGGGGGGCCGAGGGGGAAAGGAAGA AACCGGGGAAGGCCGGAAAAAAAAAGAAGAGGGGGAAAAAAG G GCCGGAAAAAAAGGGAAGGAAGGGGAAGGGGGGGGAAAAAG C A A A A A G G GAAA A A G GAACAGGGGCCGGAAAGAAGAAAAGAG G GAA A GAA $A \operatorname{G} \operatorname{A} A A A G A A A G A A G G G G A A G G A A A A G A G A G A A A A G$ GAAAGGAAGGAGAAGGGAAAGGCAGAAAGGACCAAAGGAAAA AAAGAGCCAAGAAGAAAAGGCCAGAAAGCAGGGGAAAAAACC AA $A G A A C A A G A A G G A A A G G A A G G A G G A A A A G A G G G A A A G G G G$ G G G G G A G G A G A G A A G G A A C C G G C C C A A A GAAA A GAA A GAA G G A A G G G GCACCAAGGGAAGAGAGGGCAGAAGGAGAAAGAAACC AAGGGGGGCCAGAACCGGGGAAGGACAAAGAGAAAAGGGGGG GAGGAAAAGGAAGGCAAAAAGGAAGGCGGGGGAAGGGGAAAA A GAAAAGGAATTAAGGAAGGAAGGGGGGAAGGAAGAAAGGGG A A A A G G G G G GAACCGGAACCAAAAAAGGAAGGGGGGGAAAAA G G G G G G G GCCAACCGGAACCGGCCGGGGAAGGAAAAAAAAGG G G G G G G T T A A A A A A G G G G A A C C A A A A A A G G G GCC G GAA G G C C A A G G A A G G G G A A G G G G A A A A A A G GAAAAA G GAA G G G G C C G G A A G G G GAACCAAAAAAAAGGAACCAAAAAACCAAGGGGAAAAGA AAAAGGGGCCGGAAGGAAAAGGGGGGAAGGGGAAAAAAGGGG G G G G A A G G G G G G G G A A A A G G G G A A G G A A C C G G G GCC C C G G A A A A A A G GAA A G G GAA A G G GAACCGGAAAAGGAAGGAGGGAGAA G G G G A A A G G G C C G G GAA A GAAA A A A A G G G GAGCC CA A A A GA C A A A G C C G G G G A A G G A C G G G G C C A C G G G G A A G G G G A G A G G G G A GGAACCGGCCAAGAAGGGGGAGAGGGAAGAGAACACAAAAAA A GAGGGGGGGGGAGGGAGGAAGAGAACCAAAAAACCAAGGCC C C G G A A G G G G G G G GC C A A G G C C G G G G A A A A A A A A G G G G G G C C A A A A A A A A G G G G G G G G A A A A A A G A CAA A G G G GA A A A GA GA $A$ A A A GAGGGGAAACGGAAGGAGAAAACCGGAACAGGCAAAAGGG GAGAAGAAACAAAAAACCGGGAAAAAAAAGAAGGGGAGAGAA

A A A G A A A G G GAAAGGGGAAGAGGAAGAAAGAAAAGGGAGAAA
 GAAAAAGGAGTAAGGGCAAGGAAAAAAAGGGGAGGGGGAAGAG A A G GAAAGAGAAGGGGGGGAGGGGAAAAGGCACAGACAAACAC ACGAAAGGAAACGGAAAAGGCCAGAGGAAAGGGAGGAAAC GA A A A A A A G GAAGGACGAGAAAGGAAAAAAGGGAACAACAAAAC A A G G G A A A G G G G A G A A GAGAAGCAGGAGGGGGAGAATAAAAC GACACAAAGGAGGGGGAAAAGGAACCGGGGGGAGCAGAGGGA GA $A \operatorname{G} G A G G G A G A G A G G G G A A A A G G G G A A A A C C G G G G C C A G A A$ G G G GAAAAAAGGCCGGAGGGGGAGAAGAAAAAGGGGAAGAGA AAA $A$ AAAACAAAAAAAAAAAGGAAAAGGGGAAGGAAGAAA GA A A A A G GAAAAAAGGAACAGGAAGAGGGACAGGACAGGGAGAT $G G C A G A G G G G G A G A A G A A A G G G G A G G G G G G A A C A A G C$

C G GA $\operatorname{G}$ GAAGAACCCCAAGGAGGGAAAAAAGGAACCAAGGGG A AACACAAAGAACCAGGAAAGGGGAAGGAAGGGGAAAGAGGG G G G G G G G G G G G G G A G G G A A A A G A GA GAA $A$ G G G GAA G G G G A T T AAAGAGAAAAAAAAGGGAAGGACAGAAGGGCCGGAAAAAAGA A A A A A A G G G G G GAAAAAAAAAAAAAACCAAGGAAAAGGACAA GAGAAGGAAAGGAGGGAAAAGAGGGGAGGACCAAAAGGCCAA A A GAA $A \operatorname{G}$ GAAAAAGGAAAAGGAAGGAAAAAAGGAAGGAAAAAA T T G GAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G GAA $A \operatorname{GGG} G \operatorname{G} A A A A \operatorname{A} A A A G G C C G G G G G G A A G G A A G G G G G G$ G G G G G G A A G G C C A A A GAGGGAAAAGGAGCCGGGGAAAAAAAA A A G G G G G G A A A A A A G GCC G G A A A A A A G G C C G G G G G GAA A G A A
 G GAGCCAGGGGGGGGGGACCGGGAAGGGGGAGAAGAAAAACC AAGGAAAGGAAAGGAAAAAGAAGATAGAGAAACCGGAAAGAA CAAGAAGCAGGGAAAAGGACAGGAAGGGAAGGGGGAAAAAAG C C G GAAACGGAGGGAAAAAAGGAGAGAGAGAAGGGGGAAACC CCGGAGGGAAAAGGAAGGCGAAAAGACAAGAGAAAAAGAAAA C C G G C A G G G G G A A A A G G G G G A G C C G G A C A G A G G G A A G G A A G G A G G G G GAA A G G G G GAA AGCCCGGCCGAAAGGAAAAAGCAAACC
 A A A A A A A ACCCCCAAGAAGGGAAAAGGGGGCCAAAGAAAAAG G GAAGGCCAGGCAACCAGCAGGGGAAGAGAAAAACCGAAABA A A GACCGGGGCCAAAACCAAGGAAGGGAAGGGGGGAGA GGGA
 A GCAGGGAAAAGGGAAAGGGCAAAGGAAAAGGAGGAAGAAGA CAATGGGGAAAGCGAAAGGGGGACAAAAGGGGCCCCGGAGGA AACAGGGACCCCGGGGGGAAAAAAGGGGAAGGGGAAAAAGGG GGACCCAAAAAAGGAGCCGGAACCAGAACCAAAGGAAGAGAA G G A A A G A G A G A G G A A G G G A A A A G G C C G G G G C A A A C C A A G A A A ACGAGGCACCAAAAAGAAGGAAAGACGGAGAGGGGGAACAAA A G GAAA A A A A A GAGAGAAAAGGCCAGAACCAAGGAAAAAAGB A G G G G A A G G G A T G A A G G G A GAAAAAAAAC G GAC G G G G G G G G A A GAGGGAGGCCAGGGCCCAGGTTGGAAGGGGGAGACCGGGGAG GAAACAAGGGCCAAAAAAGGGGCCAGAAACCAGAAAAAGGAA GAA A A A A A A G G G G G G G G G C C A A A G G GAA $A \operatorname{AGGGGGGGGGGAAA}$ A A A A G G G G G G G G G G G G G G A A A A G G G G G G G G A A A A A A G GAA $\mathcal{A} G$ AA $A G C C A A A A C C G G G G A A A A A A A A G G G A G G A G G G A G A A A A A A$ A G A A A A A G A G G A A A G G G G G G C C G G G A A A A G A A G G G G G G G G G G AA $\operatorname{A} G \mathrm{G} G \mathrm{~A} A \mathrm{~A} G \mathrm{C} C A A A A A G G G A G A A G A A A G G G A A A G G A G G G G G G$ A A C A A A G A G G A A A A A ACCAATTAGACCAGGGGAAGAAAAA GA $C C G A A A G A A G G A G A A G G C G A A A A G A A G G G G G G A A A A C C G G A G$ G G A A A A G A A A G G G G G G A A G GAAAA $A \operatorname{A} A A G A G A G A G G G A G A C G G$ A A G GCCGGAGAAGAAGAGCAAAAGGGGAAGGAACGAACACCC G G G G G G A A G G A A A A C C A A G G GA GAGGGAAAGGATAA GA G C T T A A A G A A A G A A A A C CCCGGA GAAAGAAGGATAAAAAACC G GAA $A G A A A A G G C C G G A A A A A C C A C C G A C C G G G G A G A A A A G G G G A A$

GAAAGGGGGGGAGAGAAGAAGGAGAAGGGACAAAGGAGAAGA $C \subset G G G A G G G A G G A A A A G G A G C A A A G G C A A G G A C C C C G A A G A G$ ACAGAGACAAGACCAACCGGGGAACGAGAACCAAGGGGGGCC A G G GCAGGAAAACAGGGGAAAAAAGGAAGAAGAAAGAGAGAG ACAACCGGGGGGACATGGAGAACACGCCAAAAGGAAAAAAAG GAGGGGCAGAAAGGGAGGCAACAAGAGGGGATGGBAAGGGGG G G A A A A G G A A A A G GAGAGACCCAAGGCAGAGGAGCAGAGGAG G GAAGAAAAAGGAAGGAGGGAAAAGGGAGACCCCGGCAAAAA A A A A G G A A G A G G A A C C A A A G G G A G G G A C G G A A A A A A A A C C G G GACAACGAAGGCGACCAAGGGGAAGGGGGGAAAAGGGGGGCG GACAGGGGAAAAGACAAGGAAGACGCCAAAGGAAAAAAGAAA ACAC GAAAAAGACCCGGGGGAAAAGGACCAAGGAAGCAA GAA C C A A A A G G A A A GAA $A \operatorname{G} G A A G G G G G A A A A G A A G A A G G G G A C C C C$ G G C C A A G A G G A C G G G G G A A G G G A A A G A G A A G G A A A G A G G G G G G GAGAGGAAAAAGGAAGGGAAAAGGGGAGGGGGGA $\operatorname{A} A A A A A G G G$ ACGAAAGGCAGGGGGAGAGGGGAGAGAAGGCAGGAAGAAAAA G G G A C A G G G A A G A G G G G G G G A A G G A A G G T T G G G G C C G G G G G A GAGAGGGGGAGGAAAAAGAAGGGAAGGGGGCCAAGGGGAAAA AA GGAAAAAAAAGAAAGAAGGAAGAGGGAAAGGAAAAGAGAA GAAAGGAAACGAGGACAGAAAGGGGAAAGGGGCCGGAGAGAA AAGGAAGGCAAGAAAGCAAACAGAAAAAAACCGAGGAGGGGG
 C C G G G GAA $A$ A $A G G G A A A G A C C G G A G A A A G G G C A A G C C G A A G A A$ GACCGGAACCAAGGGAGAACCAGCAGAAGAGGAAAAGGAAAA G G A A A A A A A A A A G G G G A GAAGGAACCGAAAGGCCAAAAAGGG
 G GAA $A \operatorname{A} A \operatorname{A} A A G G A A G G A A A A G G G G C C G G G G G G G G G G A A G G G G$
 A A G G G G G G A A C C G A A C G GAAAAGGGGCAGGAGAAA GAAAC G G G G G G G G G G G G G GAA A G A A G GAAAAAAGGGAAAAAAGAAACCCC G G G G G G G G G G A G C A G G A G G G G A G G A A A G C A C C G G A A C C A G G G C C G GCCAAAAAAAACCGGGGGGAAAAGGCCGAAGAGGGAAAA A A A GAAACAGAGAGCAGACCAGGAGGCCAGAAAAGAAGAAAA A A C A A A G G A G G G G A G G C A G G A A G G G G A A A G A A G G G G A A G G G A A GAA A G G GCCAAGAACAGGGGGGAGAAACCAAGGGGGGAGAA G G G G A A G A C G A G C C G G G G G A G G G G A G A G G G A G C C G G G G A G C C G G GAAA A A A A A A G G G GAGAGGGAAAAAAAAAAGAAAAAGCAC $A G C C G G G G G G G G C C A G G A A A G G A G A G G G G G G G A A A G A G A G G G$ G G G G G G G A G A A A G G A C A A G GAAA A G G A A A A GAAAAA A G G G A A A $G A A G G G G G G G G G G G G A A A A A A A G A G G A A A A A G A A A A A A G G G$ G G G G GAAGGAGGGGGAAGAAAGAAAGGAAGAAAACCGGAAAG A G G A A C A G A A G G G C C A G G G G G G A A G G A A G G G G A A A A A A G G C C AAAAAAGGAACCGGGGGGAACCGGAAAAAAAAAAAAGGAACC A A A A G GAAAAGGGGAAAAAAGGAAGGGGAAAAAAGGCAAAAA A A A A A A G G A A A A A A G G G G A A A A G G G G G G A A A A A A A A A A G G G G A A A A A A A A G G G GAAAA $A$ A GAATTCCAAAAGGGGAAGGCCAACAC A A C C A A A A A A A A G G G G A A G G T T G G A A G G A A A A G G G G A GAA C A
 G G G G G GAAAAAGAAAACCAAGGGAGAGGGGAGGGGGAAAAAA A GAGAGAGGGCCCCGGAAGGGGAAAAGAGGAAGGCCGAGGCC C CAAACAAGGAAGGAAGGCCCCAGAAAAGAGAAAGGAGAAAG G G G G G A A A A A C CA $A \operatorname{GCA} C \mathrm{C} G A G G G G A A A A A A G G A A A A G G G G G G$ G A G G G A A A G G G A T T G G A A A A A A A G C A A G A A A A A A G G G G C C G G A A A GAAAAGGAGAAAGACCCAAACGGAAGGAGGGAAAAACCC G G T TAAAAAAGAAGAGAAAAGGGGAAGGGGCCAACCGAAAAA C C G G G GAACCGGGGAAAAGGGGAAAACCGGAACCAAAAAAAA AA $A G A A A A A A A G G G G A A G G A A G G A A A A A A G G A A C C G B A A A A A A$ A A G G A A A A G GCC G G A A G G G GAA A G G GGGAAAACCGGAAAA G G AAAAAAAACCGGGGGGAACCAAAAGGGGGGCCAAAAAGAAGG

A GAGGAGGGGAAGGGGAAGGGAAAAAGGAAGGAAGGAAGAAA G G G G G GAGAGGGCCAGAGAAAGAGAGTAGAAAAACCGGAGAA $G G A A A G A A C C A A A G A A G G G G A A G G G G G G G G A A G G A A A A G A A G$
 A G G G G GAGAGAGGAAAGGAGAACCAAAAGGGAGGGGAAAAGA GAACAACCGAGAAAGGGGAAGGGGAGAAAAAGACGGGGAAGAG G G A A G GAGGGAAGAGAGAAGAAGGGAAAAACCGGGAGAAGAG $A G C C A G A A G G A G G G G G A A A A A A G C G G G G A C G A A G A A A A G G C A$ GAGAGAAAAGGAGGGGGGAAAAGGGGGGGACCAGCCAAAGAA G GAGAAAAAAGGAAAAAAAGAGGCAAGAAGAGAGAAGAAAAG
 A G G G A A G G A A A A G G G G A A G G G G G G A GA GAAGGAA AAACAC A A $G G C C G G A A G G C C C C G G A A G G A A C C A A G G A A A A A A G G G$
GGGCCAAAAGGGGAAGGGGAAAAAAAAAACCAACCCCGGAA G GAA $A \operatorname{GCCA} A A A G G G G A A G G C C G G A A A A G G A A A A G G A A G G C C$ $C C G G A A G G G G A A G G A A G G G G A A G G A A A A A A A A G G G G G G G G A A$ A A G G G G A A G G G G G G G G A A A A A A A G G G G A A G G G G G G A A A A G G G G G GCCGGAAGGAACCAAAAGGAAGGAAAACCAAGGAAAATTGG $G G A A G G A A A C A G C A A A A A A G A C G G A C C A C A A A G G G G G G A A G A$
 A A G G G G G G A A A A G G G G A A G G A A G G G G G G G G G G A A A A G G C C C $C$

 AACAGCGGGAGGAGAAAAGGAAGGGGCCGAGGGGGGAGAAGA A A A A G G A A A A G GAAAAAAGGCCGGAAGGAAAAGGGGACA AAA G GAAAGGGAGGGGGAGCAACGGGGAAGGCCAAACAGACAGGG GAAAGGGACCAAGGAGGGAGATGACGAAGGCCAAGACCAAGA A G G GAGGAGAAGAGCAGAGGGGAAAGAAGGGAAAAAACAAAA G GCC G GAA A G G G G GAAAAGAGAGGAACCAAAAGABCGGGGGG AACCAAAGGGGGACAGGGAAGGAAAGAGAAGGAAAAAAACAG A CAGAAACAGGGGGAAAAAGGGCAAAAGAAAAAGAGGGTTAA GAGAAGCCGGGGGGGCAGAGGGCCAACAGGGAGAAGAACCAG A A A A A GAGGGGGGAGGGGAAAAAACCAGAAAAGGAGGGGGGA G GAGAAAAAAAAGGAAGCAAAGCAAAAAGGGGGGAAAAAAAG G GAAGAGGGGACGGAATTGAAAAAAAGAAGGGACAGAAAAAA A A A A A A G G G G G GAAAAGGAAAAGGCCAAAGAAGAGGCCCCGG AAAACCGGGGAACAGAAGGAGCGCCAAGCAAGCCACGGAGGG G G GAGGCCAAAAAAAAGGCAAAGGAAGGGGGGAGGAGAAGCC GAGGGGCCCCAACCGGAAAAGGAAGAAGCCGGAGGGCCAAGA AC G G G A A A A A G G GA $A \operatorname{A} A G C C G G A A A A A A A A A G G G G G G G A G A A$ C CAA $\operatorname{CGAAACCCCAAACGGGAGAAAGGGGGGAAGGGGAA} G G G G$ GAAAAAAAGGAGAGGAAACCGAAAAACGGGAAAAGGGGAAGAG A A A A A GAAAAAAACGAAAGAGCGGGAAAAAGGGAGAGGAGAC G G G G G G C C G G G G A G A A G G G G A A A A G G GAGGGGGGGGAAAA G G G GAAGGAAAGAGGAACGGGGAGGGAAAAAAACAAGGAAAAAA G GAA A G G G G G G G C A G G G G A A G G G G G A GAAAAA A A GAG GAAAAA AAGGAAGGAAGGAAGGGGAAAAGGAAGGGGCCAAAAGGGGGG G GAGGAGAGAAGAAGAAAGGAAAAAGAAGGAAAGGAAAAAAA G GACCCAAAGAGAGAAAACCCCGAAGCCGGGGTTAAAAGAGA GAACAGGAGGGAAAAAAAAGAACAAGGAGGGGAAAGGGAAGAG A GAA A G G G A A CAGAGAAAGGAAGGACAGGAAAGAAGAAAAAG $G G G G A G A G G G A A G C G A G A A A G G A A C C G G G G G G A A G G G G A G G A$
 G GAAGAGAAAGAGGCAAGACCAGAGGGAGAAAAAGGAGAGAA $A A C C A A C C A G A A A G A A G A G G G G A C A G G G G G A A G G G A G G A G A G$ G G G GCCGGGGAAAAAGAGGGCAAGAGGAAAAAGGGAAGAGAA A G G G A GAACCAAAAAAAAAAAGAGGGCCAACGGGGGGGGGGG G G G GA GAAAAGAGGAAGGCAAAGGGAAGAAGGAAGAAAAAGA $A G G G G A A A C C C C A A G A A A A G A G A A C C G A C C G G A A G G G G G A G A$

GAGGAAGGGAAAGAAAACGAACGGAAGGGGAGAGAGAGAGAA A A G G A A G A G GCCGGAAGGAGGGGGCCGGAATTAAAAAAACGG
 GAAGAAGAAAGGGAAGGAAAGGGGAGCCGAAACCGGGAAAAG $G G C C A A A G A G G G A A G G A G G A G G G G A A G G G G A C G G A A A A A G A A$ G GAGGACCGAGGGGGACAGGGGAGAAGAAAAA
 AAAGAACCACCCGAGGGGAGCAAGGAAGGAGGCCGAAAGGAA C C A A A A G G A G A A G A A G G A A C A G G G A A G G C CA G A GACAG G G G A AGCCAAAGGAAGAAGAGAAGAGAAAGACGGGGAAAGAAAGAA CAGAAAAAAGAAAGACGGAGCCAGAGAAAAGAAAAGGAGAAA ACAAACAGAACAAGGAAAAGAGGAAAAGAGAGACAGACAGBA G G A A A A $\mathcal{A} G G G G G A A G G G G G G G A G A A G G G C C G A T T A G A A A G A A$ G G GAGAAGAACCAGGAAAAAGGCACCGGAAGGCAGGAAAAAA GAGAGAGAAGGGGAAGAGAAAAAAAGAAAGACAAGGAGAGAA AA GAGGAAACAAAAAAGAAAGGGAAGAAAAGAGCAGGAGGGG AAGGAACCGGAAAACCGGAAAAGGGGTAAGAAAAAGATAAAA A A A A G GAAA $A$ A A A C GAGGAAAAAACAATCCGGGGCCGGAGAA GAAGCAAAAAAGAAAACAAAAAAAAAAGAGAAAAACAGAAAA A GAA $A \operatorname{GAAA} \operatorname{A} A A A A A G A A G A A G A G C C A G G G A G G A A A A C A G A A$ GAAACCGAAAAAAAGGAAAGAAAAAAAGAAAAAAAGGGGGAG A GAAGAAAAAAACCAAAAAGAGGAAGACGGAAAGAAAAAAAA A GAAAAAAAGAAAAAGGGGGGACCAAGGAAAAGAAGGBAABAA GAAAAAAGCACCCCCGAAGGAGAGGGCGAGAAAAAGAAGAAA A A G A A A A A A GAAGGAGCCAAGGAAAAAGCCAGATAGGGAAAG A GAAAAACGAAAAAAAAAGAAGGAAATAAACCGAAAGGGGAG GCAAGAGGAAAAACACAAAGAAAGAAACAGAGAAAGAGCCAG ACGAAACCAGAACAAAAGAAAAAGAAAAAGAGAAAAAAAAAA A G A A A G G A A A A G G GCGAAAAAGGGAAAGAAGAAGAGGAGAGC GAGGAAAAGAGGGGACCAAAGGAACCGAGATAACAGAACCAA C CAAAAAAGGGGAAGGAGAGACAAGGAAAGAAGGAAAAAAAC GAAGTAAGATCAGAAAGGAGCAAAACAAGAAAAAAAGAAAGG AAGGGGAGGAAAACGGGAAAAAAGACAAAAAAACAAAGAAAG A A GAA $A$ A $\operatorname{A} G A A C G A A A A A A A A C A A A C A A A A A A A G A A A G G G A A$ A GAGAAAGGAAGAGGAACAGCAACCAAAAAAAAAAGAAAGAA AAACCCAACAAAAAAGGAAAAAAGAAACAAGAACAGAGAGAG AAAAAAGGAAAAACGGAGGGAAAGAAAAAGAAAGAGAAAACA AAAGAAAAAGACGAAAAAAGAAAGAGAAAAAAAGACAAAGAG A A GAGAAAAAAAAGGGAAAAACAGAGAGACAAAGGAAAAAAA A G G A G A A G A G T A A A A G CAA $A$ A A GAGCATTAAAAAAAG GA GAAA AAAGAGAAAAAAAAAAGGAGAAGGAAAAAATAAGAGAGAAAA AAGAAAAGACAAAGAGAGAAAAAACCAGAGAAGAACAGAGAG AACGAAACAGCCAAAGGGACAGAGCAAGAAAGACAGAAGAAA GAACACAACAAAGAAGAGGAAGAAAAAGAAAGAGAGAAAAAG A GAGAGTTAAAGAGAGGGGAGGAAGGAAAAGGAAAAACAAAG
 A GAGAGGAGGAAAAAAGGAAAAGAAGGAACAGCCAGGAAAAG G G GAAGGGAGAGAGGACCAGAGAGAAAGAAAAAAAAGAACAC A G GAA A A GAACCGGAAAAAAAAGAAGAGAGGGAGAAAGAGAA GGACAAAGAAGGAAACCCAGAAGGAAACAAGGGGGGAGAAAA AACCAGAAGGAAGAAAAGAAAACCAAAAAGACACAAAAAA GA AA GAA A A TCAGAAGAAACGGAGAAAAGGAAGAAGCCAGAABAA A G G A G G A G A G G GAA A A A GAGTAAACCGGAGAAAAGAACGGAG AGAGAGGGAGGAAAAAAGAAAAAAAGACGAACGAAAAAAAAA A A A A A A A A A G GCGAGAGAGGAGGAAGGACAGAAAAAGAAGAA A G G A G A A G G G A G G G A C A A G G A G G G G G G A A G A A A GAC G C A G G A GGGAGAAGAAACAGAAAGAAACAGAGGGAAGACCAGGGAGAG AGCAAACCAAAAAAGAAGGAAAGAAAAAAAGGAAAACCGGGA AGAAAAGACAGACCAACCAGGGAGGCACAAGAAGCCAAGGGG

AAGGGAGAGACCAACCGAGAAAAACAAAAAGGAACCGAAAAG GAAGAAGGAAAAAGGAAAACAAAGAGAAAGGAGAAGGAACAG A GAACAAAAACCAAAGAACAGAAACCACAGACAAAGAGAGGG A A A A A A A A A A A A A GAAAGAGCCAGAAAGGAAAGAAGGAAGAG AAAGAGACAACCACCGAAGGAGAAAAGGAAAGAAAAAGAAGG C G A A G A A A A A A G A A A G A A GAGCAGCAAGAGAAAAAGACAGAA A GAACCAGAAAACAGAAGAGAGGAAGAGAAAGACAGAAACAG AAAGTAAGGGCAAAAGAAAGAGACAAAGAAGAGACCCAAGAG A CAAA $A \operatorname{GG} \operatorname{G} A A A A A A C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ GAGAGGGGGAAGGGGGGGTTGGTTAAGGAAAAAAAACACAAA AA G GAGAAAAAGCAAAAAAGAGAGGAACGAAGGACAGAAGGG AAGGCAAGGAAGAAAGAGACAAAGAGAGAGCCGGGGAGAAGG A A A A A G G A T T A A A A G G A A A A G GAGAGGGAGAGAGAGAA GAA $A$ GAAGAAGGACAAACAAGAAAGAAAAGACAGGGAAAAAGAACA G GAAAAAAAGAAGAAGCCAGCAAAGAAGGAGAGGAAAGACAA A GAAAAAGAGAGAAAGAAGGGGAAAGAAACGAAGGAAAAGAA C CAAAAAGAAAGAGCAAAAACCAAAAAAAGGAAGCCAAGGAA A GAGAAGAAAGAAAAAAACAAACCAAGAAGAGAGAAGAAGCA $G G A A G G A A A A A A G A G G A A G A A C A G G G C A A G G A G G A C A C G G G G$ C G G A G A A G A A G A G G GAGGAAAAGGCCGAGAAAAAAGAAAAAG AACAAGAAAGAAAGAGGGGGAGGGAGAAGGCCAAACAAGGGG GATTGGAGAAGGGGACGAAAAAGGGGAGGGAAAGAGAGGGGG $G G A A A A A G G A A G G A A G A A G G A A G G A A A A A A A A A G G A A G A G A T$ A G G G A GA $A \operatorname{GA} A G \operatorname{GA} A A A A A G G A G A A G A G A A A G G A G A A A G A A A A$ G G G GAGAAGGAGACGGAGAAAGAAAAAGAAACAAACAAAGAG
 A G G GCCGGGGGAAAAAGGAGGAGGGAGGAGAAAGGAAGAGAG G GAGGGGGGAAAAAGAACAACCAGGGAAAAAAAGGGAGAAAA GAAAAAGGAGAAGAAGGAGGAGGGAAGAAGAAAAAAAGAAAA AAAGAGAAGAAGAGAAAAGAAAAAAGAAAGAGAGAGAAAGAA A A A G A A A G A G G A G G GAACCAGGGAGGAAGAAGGGAAA GAGAT GAGGACGAAGATAAAGACGGAAGAGGAAAGAAAAAAGGAGAG A GAAAGAGAGAGAAAACAGGCCAAAAGAAGAAAAAGAAAAAG ATAAAAACAGAGAAATAAGAAAACAGGGAAGGAGCCAGAAAA A GAGAAAAGAAAAGAAACAAAAAAAAAAAAAAAAAAAA GAAAA AAACGGGAGAGAAGGAAAGGAAAGAAGAACGGATAGAGGGGA AAAAGGAAAGAGAGGAAAAAAAAAGAGGGAAGAAGAGAGACC AACCGGACAAAGGAGGAAAAGAGAAGACGGACGGCAAATAAG A A G G G GAAAAGGAAAATTCCGAAGAAAAAAAAGGAAAAAAAA G G A A A A A A A A A A GAA GACACAAGGAAACAGGATAAAAAGGGG A A A A G GA $\operatorname{A} A \mathrm{~A} G \mathrm{G}$ GAAAGAGGGAAAAGGAGGGGGGGACAAAGAA A GAGAAGGGAAACCAGACAAAGAAGAAGAGAGAAAAAAGGCC AAACGAAGGGGGCCCCAGAGGAAAAAAAAAGGAGGAGAAGGA AACCAAGGAGGGAAAGATACGAGAAGACCCCAAGCAGECCAG A G G GACACGAACGGAAAGAAGGAAAGCACAGGGAAGAGACAG A A A A A G GAGGAAACAGAAAGAAAGAAAAAAAAAGGGAACCBG A A G GAAGGCCAAAAGAGGGAACAAGGAGAGAGGAGGAAAACC GGCCGGAGAAAAAGAGAGAAAGGCATAAAGAGCAAGGAGAAA A A GAA A A A CAGAGAGAAAGGAAAAGGAAAAAGACAAACAAAA ACAAAAGGAGAAAAAAAGGGAAACGGAAGGGGAGAGAGAGAAA A GAGGAAGACAGAAAAGGAAGAAGACAGACAAAAAGAAAACC $G G T A A G A A G G G G A A A A G G A A A A A C A G C A A A A C A A A G A A A G A G$ AACCAAGGGGAAGGGAAGAGAGGAAGCCAGAAAAAGCAAAAG TAGGGGAGAACAAAGGAAAGACGGACAGACGGGGGAAGGAAA AAGGAAAGGGCCGGACAGCCGAAAGAGAACAAGAAAGGAACC ACAGAAAGCAAGCCAGGGGACCAAAGAAAAACGGGGAGAGAG
 A A A A A GAAAG GAAAAGAGAGAAAAAAAGAGGAGAGBAAGGGG GAACAAAAAGAAAAAAAGAACACACCACACAAAAAACCAGAG

CAAAAAGGAGAAAAGAGGAGAGGGGGAGCCAGAGAGGGAAAC C CAGAAAAAAACAAAAGGAAAAAAAAAGAAACAAAAAAAGBA TAGAAGGAAAAGGGAAAGGGAAAAAGAAACAGCAAAAAAGAG AAAGGGAGAAAAAAAGAGAAACGGAGGAAGAAAGAGGCAAAG A G GACCGGAGAAAAGGAGAGGGGAGGAAGGGGAGAGGGAAGA $G G C C C A A A G A A A A A A A G A A G A A A C A G G G A A A A A A A G G$
A A A A A GAGAGAAGGAAAAAAAAAAAAAAGCCGAAGAAAAGG ACAAGGGACGACAGAGAGAAAAGGAGAAAGAACAACCGAGCC G G A C A G A G A G A G G A A G C A A G A G A C A G A A A GAAA A G A A A A G A G G GAGAAAAAGACAGGACAGAGAAAAAGAAAAGAAGAACGGGG G G G GCGGGGGAGAGAAAGGGAAGGACGGAAACAGGGAGACAA A GAA A G G A A A A GCAAAGGAGGAAGAGAAAAGGCAGGACAAAA A CAGAAAGAAAGAGGAAAGGGAAAAGAGAGCGGGAGAAAGAC C GCCAA A G G GAACCTTAAAAATGGGGTTAAGAGGGAAACAGG AAAGGGAGAAAGAGAAAAAGAAGGAAAAAGAAAGACAGAGAG GAAAAGGGAGCGCCCCAAGGAAAAAAGGAAGGAGGAACAAAA AAAGAGGGCCGAAGGAAGACAGGGAAGGAGAACAAGGAAAAG A A GAGAGAAAGGAGGGAACAGGCCGAAAAGAGGAAAAGACAG AACCAAAAAGAGAAAAAAGGAGGGAAAAAAGGAGAGGAAAAG AAAAGAAGAGAAGGACAGCCAGAGACGGAGACAGAAGGAGAA A G GAGGAAGGAGGGCCAAAGAAGGGGAAAGGGAAGAAAAGAA AAAGACTTACACAAAAAGAAGGGGGAACAAAAGGATAAAGAG A A G G A GAAAAAAAGGAGAGAGGAAAGAAGAAGAGGACAGGAA GAGAGAGGAAAGAAGGAAACGGAACCGAAAGAAAGAAACAAA GAACACAAGAAAGACAAAAGGGAAGGGGAGAGAGAGGGAGGA A GAGAAAAAAACAAAGAGAAAGAGCGACAGAAAAGAAAAAAA GAGGAAAAAAAGAGAAAAAAGGAACCAAAAAAAAAGAAAGAG GAAGAAAGAAAAAAGAAGGGGCAAAGGAGAAGGAAAAAAGAG AAAGAGGGGAGACAGAGAAAAGAAAGAACAAGAGGAAAACAG $G G A A C C G G A G T T C A G G A A G G G A G A G G G G G G A A A G G G G G A A A A$ A A A A A A G G C G A A G G C C A A G G G A A C CACAA GAAACCCAAACA G AAAGAGAGGAAGAGAGGGAAGGAAAAGGAAGGAGGAAAAAGG AAAGGACCAGAGGAAGGGAAAAAGGGGGGAAACCAGAGAAAA G G G A A A G G GAG G G A A TA $A \operatorname{G} G \mathrm{GA} A A A A G A A G A A G A G G G A A A G A C$ A A A ACCAAAAAGGGCAAAACGAGGAAGGAGGGAGGGGAAGAG A CAA $A \operatorname{GAA} A C A A A A A G G A A G G G G A G A A A A G T A A G G A A G A A G A$
 A A A A A A A G G GCAAAGAAGAGAGAGGGAAAGGAAAAAAAGGCC CAAGGGGAGGAGAGAAAGAGAAGGGGCCAAAAAAAAAAAGAG AAAGAGCAACTTAGAAACAAAAAAAAAAAACAAA GAAATAA G GAAGGAAAAGAGGAAAAGAGAGAGAAAAAGGGACAGGGAAAG CA $A$ A A CA $A$ A $A G G G A G A G A A A G A A G G G G A C G G G A A A G A A A A G A G$ G G G G G G G GAGAGGGAATTGAGGAAGGAAAAAAAAAAAAAAAA A A A A A A A A A A A A A A A A GAGGACCCGCGGAAAAGAAAAG G GAA
 G G A A A A A A A A A A A A GACAGGAAAAGAAAAAGAGAAAAGGCGA A A A G A ACCGAACAAAAAGACGAAGAGAAAGAAAGAAAAGGCA AAAGAAAGAAAGACAAAAGAAAAGAAACCCAAAAACACAGAA A GAAAAGAAGTTAAAGAGAAAGAAGAAGGAGAGACAAGAGAA
 A A A G GAGGGGAAAAAAGAAGGGAGACAGAGGAAAAGAGAGAA CAAAAAGAGGAGGGAAGAACCCGGAAGGCGAAAACAGAAGGG A A A G A A A A G A G A A A A G G A A A A A G A A G G A G A A A A A A A G A A A G A AA $A G A A G A G A A A A G A G G G G G A A G G A A G G A C G A G G A G G G A A A G$ ACAGAAGGAAACCCGGAAGAGGAAAAAAAAAGAGCCGAGGAG G GAGTTGGACAGAAGAAGAAGGGAAAAAGGAGAAAAGAAACC A A A A CCACGGCAGGAGCCAGAAGGACGGAAGAGGAGCAAAAG AAAGCCAAAGAAAGAGCAGAAGGAAAAAAAAGCAGGGGAAAB AACCGGAGAGGGACAAGGGGAAAAAGACGAAGACGAAAGAGA

A GAACCAAAGAAACGGAGAGAGGAAAAAAGAAAGAAAAAGAG
 GAGAGGGGAGAAAGAGGGAAGGCCGGAGGAAGAAAGAAAGAA A GAGGGAAGGGGAAAGCCAGAGCAAGGAAAGGGGAGACGAAA G GAAAA AAAGAAAAAGAAAAGGAGTTAAAGAAGAGGGGAAAA A G A C A A A G A A A C G A G G C A G A A G G G A GAC GAGGCCTTACA G G A A G G G A A A A GA G GACAGAGAAAAGGAAAAGAAAA GAAA GAGAT GGAGAAAGAGAAAGAAACAGAAGACCAAGAAGAAAGAAAGAG A GACATAGAAGGGAACAGAGAAAGAGAGAAGAAGGGAGAACA AAAGCGAGAGGAGACAGAAGAACAACGAAGAAAGAGAAAGAC CAACGAAGAGAGAGGGAAAAGGGGAGAAAGGAAGAGGAAAAA A A C C A A G A ACAAACAAGAAGAAGAAGAAAACCGGAAGAAAAA A A C G A A G A A G A CA $A$ G A G GAGGAGTAAGAAAAAGAACC GAAGAA A ACGAGTAGGAGAAGGGAAGAGAAAACCGAGGGGAGAAAACC A GAGAAAAGAAACAAAACGGAGGAGGTTAAAAAAAAGGAAAC A A GAGGAGAGGGAAAAAGTAAAAAAGAAGGGGGGGGCAAAAA A GAAAAAAACAGCACAGGGAAGAAAGAAGGGGAGAAAGAGAG A GAGAGAAAAGAGGAAAGAAAGGAGAGGAGAGAAAAAAAAAG AAAAAGGGAGAGAGAAAGAAGGAGAGAGAAGGAAAAAAAGAA A G A A A A G A A G A GA GAGAGAGGAAAAAAAGAAGA GAGGGAGTT A GAAATAGAGAGAAGGAAGAAAAAAAAGACAATAAGAGCCGA AAAGCAACAGCAGAATGAAAGAATTAACAGAAAAGGAGAAGG A GAAAAGGAGAAGGAGTAACAGGGCCAATAACGGGACAAGAG G GAA A A A A A A G GAAAC GAAAGAACAAGAGGACGAGGGGAGAG A A A A A C G G A A G A A A A G G GCAAAGGAAAAAAAGAGAGGGCCCC A GAGCGGAGAAAGGACAACGGGAAAGAGAACAAAAGGAAAGG GAAAGGAGAAAGAAAGAAAGAAACAAAGGGAACCAGATCCAG C CAACCAAAAAGAAAAGGAAAAGGGGAAAACCAAAAGGGGAG G GAAAGAGAGGGAAAAGGAATAAAAACAAGAGAAAAAAATAA ACAGCCAAAAAAAAGAAAAAAGAAAAAGAAAAAGAAAAAGAA A A A A A A A G G A A GA G A G G C C A A A A A A A A CA GA GA G CACC G G A G G G G GACAGAAAAAAAAAGAGGGAAGAGGAAAAAGAAGGAAGG A A A A A A A G GAGGAAAAAAAAAGAAAAGGCCAAGGGGAC G GAT A A A G A G A C A G G G G G C C G G A A CAGAAGCACAACACAAGGTATT G A A A A A A G A A A A A A A G A A A GAGAGAACAAAAAGAAGGGAGAA A G A G A A A G A A A GAAAAAAAAAAAAAGGGAAAAGACAGAAAA A GAAAAAAAAAGAAAAACAAGGGGAGAAAGGAAGAGAAAGAA G GAAACAAAGTTAGGAGAAAAAACAGAGAGAGCAAGAAAAAA GACACAAAAGGGAGAAAAGGAAAACCAACCAGTTGGAAAGCA G G G A G A A A G G A A C C A A GAGGGGGGAAAAAAAGAGAAA GA A A A A AGAAAGGAACAGAGGAAGGAGAACACACAACATTAGAAAGGA A A A G C A A A G G A A A A A G A A G C A A A A A G G G A A A A A A A GA G A G A G G GAACAAGAAAAAGAGGAAGGCCAAGGAGAAGAGGGAAACAA AAAGGGACAAAAAGAAACAAAAACAGAGACAGACAAGAAAAG AGCCAAAGAGAAAGAAAAAGACAGAGAGAGAGAAAAGGAAAG C GAAAGAGGAGGAAACAAAAAACCAGTAGAACGGCCGGAAAA A G TA G A A A A A A GA GAAAAACAGAGAAAAAAAAAAAAAAAAAA A A A A A A G G A C A GA $\operatorname{A} G A G G A A A G G G G G A A G G C C A A A G C B C A G A$ GAAGACGAAAGAAGCCGGAGGCAGAAGGAGAGAGAAAAAGAA A G G GAGAGGCAGAGAGAAAGAAAAGAACAAAAAGGGCCGGGG AAAGAACATTAAAAAAACGGGAAATAAAAAAGCAAAAAAAAA A A G A A A A C A A A ACAAAAGGAAGGAAAAGAACCACGAAGAAAA A GCCAAAGGACACCGGAAAGACAGAAAAAAGGACCAAAGGAC A GCAGAAAAGACAGCCGACAAAACAGGAAGGGGAGAGGAGGA A GAGAAAGCAAAAGAGGAGAAAAAAAAACCAAGGAAAGCCAG G GACAGGGCGAGAGGAAGACAGAGAAAGGAGCGAACCAACAA A A A A A A A A G G A A A G G CAAAAGAAAAGAAAGAGGATTAAAAAA $A C A C C G A C G G A A G A A A C C C A A A A G A A A A G G A A A A A A A A G A G A$ $A G A G A T G A G A A A G G A A A A G G G G G G G A A A A G A A A G A C A G G A G A$

G G G GAGAGAACCGGAAACAGACGGAAGGAAGGCCGGAAGGAA A A G G G G G G G G A GAA A G G G A A GAGGACAGGGGAGGAAAA GA GA A A A A G G G A A TA A A A A A A A GAA GAGAAGAAAACTTAAAACCC G A A GAAAAAAAAAGGAGACCCGGTTGGAACACAAAGGGGACAG A G GAGAGGGGCGCCAGAAGGAGAGAGAAAAAGGAACAAGAAT

AAAAGGGAACCAGGGGAAAAGGGGGGGGAACAGAGGACCGA $A G C C G A A G A C A A A C G A A G G G A A G G G G A A A A A A A A G G G G A A G G$ G G A A G G A A G A A A A G A G G A G A G G A A G G A A A A A A G G A A A A A A G G GGACCAAGAAAAAAGGCCAAAAACCAAAAAACGGGGAATTAG AACCAAAGCAAAAAACGAAAACAAAGAGAAGGAAAAACAATT A A A A A A A A A A A GAAGAAGAACAGAAAAAAGGGGGAGAAAAGG $G G A A G A G G G A A A A G A A A G A A A A G A A A A G G G A A G A A A A A A G G A$ A GACAAAGAAGGAAAACCGGAACCAAAAAGAGAAGAAGAGAA AAAAGGAAAAAGAAGGAAGGGAGGAAAGAGAGTTAAGAAAAG

 AA G GAAAAAGGGAAGAAGAGAAAAAACCAAGAAAGGAGAAAG GAGGAACCGGGGCCAAGGAAAAGGGGAAAGGGAAAAAAAAAA A GAA A GAACCAAGGGCAGGGCCAAAGAAAGGGAGGAAAACAA A A A A A A A A A G A GAAAAA GTTGAGGAAGAAAAAATACAACCGG
 A G G A A A G G A A G A G A A A GAGAGAAGAGAACAAAGAATAA GAAA A A G G A A A A A A G G A A A A A A A A A A A GGGGGCGAGCCTTAA G GA G A G G G G GAACGAAAAAAAGAGCGACAGAAACAGGAAAGAAAAA AAAAGGACAAAAACAAGGGAAAAGAATTCCAAAGAAGAAACC A GAGAGGACCAGAAGGGGCCAAGGAAGGGGAAAAGGAAAAAC T T G A G G A A A G A G G G G G A G G G A A A G A A A G G A A A G A G A A G G A G G GAACACGAAAGGGGAAAAAGAGAAAAGAAACAAGAAAAAAAA C CAAGGGAAAAGGGAAGCAAGGAAAGAGAGAGAAAAAGAGGA AAAAGAAAAGAAAGAAACAAAGAAAAAGAGAAAAAGACAGAG AAAGAGAAAAAAAACCGGGGGGGGAAAGAGAGGGCACAAAGAG C CAAAAGCAAAAGGAAAAGGAAAAAAGGAAAAACGGAGAGGG A A A A A G G G G G A A G G G A A A A GAAA $A \operatorname{AGGAA} G G A G A G A A G A A A G G$ G G G G A A A G A C A A GCAGAGAGAGAGGACCAAAAAGAAGAAGGG AAAGCAAGAAAAAAAGAAAAAAAGGGAAAAGAAAACCCBGAA CAGAAAAGAGAAAAAGGGGAAGCAGGAGAGAAAGAACAAGAA ACGGGGGGAAAAAGGGAAAAGGAAAAAGGGAAAAAAAGAGAG A G A C A A A G GAA A A GAGAAGAGGGGAGGAAGGAGAAGAAAAAA AAGGGGAAAAAAAAAAACACAAAGAGAAGGAGAGAAAAAGAC AAAGAGAAAGAGAAAAAAAGAGGGAAGGAAAGAAAAAGAAAA ACAAAAAAAAAAAGCCAGAAAAAAGGCCAGAGAAAAAAAAGG GAAACCGGGGAGAAGAAAAGGGCCAAAAGGCCGGAAAAAGGA A A GAGAGGCCAGAGGGAAAGAGGGGGGGAAAAAAAAAAAAAG A GAGAGGGAGGAGGAGGGCCAAAAAAAAAACAAGGAAAACAA A A A G A A A A A A G GCCAAACACAGGAGAGGAAAAACGGGGCCAA A GAGAACCAGCCAGGGGAGAAGCCGGAAAGACAAGAGGAAGAA ACGGAGGGAGGAGAGAGGATAAAAAAAGGAGAGGACGGAGAA AAAGAGACACAGGAAAAGAAAGAGAGCAAGGAACGGAAAAAG GAAAAGAGAAGAAGAAAGAGAAAGAAAGCAGAAGAGAAAAAG AACAGAAAAGGAAAAGAGAGAAAAAGGAAAAGGCAGAGAGAA AA G G A A A GAGAGACAAAAAGAGAGAAGGCCGGATGGAACCAA
 A GAGGGAAAAAAGAAGGAAGAGAAAGAGGGAGAGCCAACCCC AAAAAAGGAAAAAGCCAGGGAGAAAAAAAAGGAGAGGACCAG
 A A A G A A A G A G A GAGAGAGGGGAAGAGAGAAAGCGGGA GAAAA A A A C A A A G A A A GAAAAGGGAAAAGAACCAAGGACAAAAAA GA AA $A$ A G GAAAAAAAAGGAAGAAAGGAGGAGGCGGAAAGAAGCG

GAAACCAGACGAAGCCAGACGGGAAGAAAGGGGAGGAAAGGA A GAGAAACAAAAAGAAAAGAACAAAAGAGGGGAACAAGAGCC A A A A A A GA GAAAA GAAAGAAAGACACAGGAAAGGGGAGAAGG A A A GACGGAAAAAAAGAAGGGAAAGACAGGAAAGAGGGAAAA G G G GAAAAAGAGAGGAGAAAAAAAGGCAAGAAAAAGGGAAAC G G G G G GCCGGCAAGAAACAAAAAGAACCGAGGAAGGAGAGCA G G G G A A C A GACCCCAGAAAGAGAAGAAAAAACATAAAGACAA G GAGAGACGAAGAAGAAAAGAAAGGAGGAGAAAAAGAGAAAG GAAAGGGGAAGGAAAAAGAGAAGGGGAGGGGGAGAAAGAGAG AATTAGAAAGGGAACCGAAGGGAAACAAAAAAACAGAGAAAA A A A A A A A A A G A A A A A A A GAAGAAC GAGAAAAGAA GAAAAA G G A GAGGGGAAGAAAGAAAAGAAAAGCGAAAGAGAAGAGAAAGG A A G G A TAGAAGAGAAGAAAAAAAAAAGGATGAACGAACACAC AAAAAGAGAAGGAGAGAAAAAAAGAGAAGGAAAGGCACAAAA AAAGAAGGAAGGGGAAAAGGAAAAAGAGAGAAAGAAAAAAAG A A A A A A A A GCAGGAAAAGAACAACAAAAAGACACGAAACCAG A A A A A G GAAAGAAAGGACAAACGAAGAAAGAAAAAGAAAGAA A G A A A A A A A GAGAACCGGAGAAAAAGAAAAAAGGGAGAGGAA A G G G G G G A A GAA A A GAGAAGAAGAGGACCCAAAGAGAGAGAA A GCGAAGGGGAGACGGGAAAAGAGCGAACAGGCACCGAAGAG AGGGAAAAAAAAACAAAAGAAAGGAACAAAAGCAAAAG GAAA GAGAAAAGGGAGGGGGAAGGGGAGAGAAAAGAGGACAAGGAA A GAAAAAGAAGAGGAAGGGGAGAAGGGGAAAAGAAGAAAAAG GAAGGAGGGCAGAAAGGAGACAAAGGAAAAAAGGAACAAGAG
 AACCAAGGAGAAGCAGGGCCAGCCAAGGGGAAAGGGAAGAAA AGGGACAACAACAGAAAACGCAGGGAAAGAAAACAAAGAGAG A A A A A A A G A A A GAAAAAGGAAAGGAGGAAGAGGGACAAAAGG
 G GAAAGAGGGAAAGGAGGGAGGAGGGGGAGGACCAGCAGGGA GAAGGGAAGGAGAGAGAGAGATAAAGGAAACCAAAACAGGGG AAAGAGGGGGGAAGAAAAAAAGAAAAAAAAGGAAAAAAACAA A ATTAGCAAGAAAAAAAGAAGAAAAAAGAGAGGGGGAAAAAA
 CAGGGGCCAAACCAGAAAAGAGAGAAAAAAAGCAAGAAGAAA GGGAAGAAAAAGAAAGACACAAACAAAAAGTAAGAAAAAGGA GACAAGAAGGAAAGCACAAGGGGATTGACCGAACGGAACCGG A A GAGGGGAGAAAGAGAAGGAAGGCCAGAGGGAAAAACAGGC A G A G A G A G A A A G G G G A A GAGGGAGGAAGGAGAATAGA GAGAA G G G A A GAGAAAAAAGAAGGAAAAGAAAAAAGGGCCCGAACAA GAGGAGCAAGAGAGAAAGGGGAAAAAAAAGGAACGBAAAAAC ACAAACAAAGAAAAAAAACAGGGAGAGCAGAGAGAAAAGGGC G GACAACAAAACAGAGGGAAAAAGGAAAGAAGGGAAAAAGAG AAA $A$ A A A A A G A A A GAGAGGAACAGGGGAAAAAAGAAA GACA G A A A G A A A G A A A G G C G G A A A A A A A G A TAAAAAAAAACA G G GAA C C G GAGAAAAGAAAAGCCAGAAAGAAGGAAAGCGGGAAAAAC $G C C A C C G G A A A G G G G G A G A A A A A A A G A G C C A A A A G A G A G A A G$ A A A GAAAGGAAAGAAAGGCAGGGAAGAAAAAGAGCAGGAGGG GACCGCAAAGGGAAGAGGAACAAGAAAAAGAGAGGGAAAGAG AAAGAAGAAAAAGAGGAGAGGGGGGAAGAAACAAGGCAGGGG ACGAAAAGACAGAAAGAAAAAAAAAAAGAGGACAAAAAAGEG TTAGGAAAAAAAAAACAATAACGAGAGGAGAAGACAGGAGAA $C C G A A G A G A A G G A A A A T T A C A C G A G G G G G G A G A A A G A G G B A A$ AAAACACAACGAACGGAGGAACAAGGGAAGAAGGGGAGAAAA C CACAA $A \operatorname{AAA} A G A A A A A T A G G G G G G G G G A A A A A G A A G G A A A A$ AACAGAAACCGAAAGAAGGGAAGAGGAAAGGGAGAAAAAGAA GAAAACAAAGACGACAAAAGAGACAGAGACAAAGAAGAAGAA ACGAAGAGAAAGCAAAAAAAAAAAAGAAAAGGGAAGGGACAA AAACCGAGGGAGGAAGAGACGGAGGGAGAAAAATAGAAAAAG

GAGAGGGGAGAGAGGAGAAGGACCAAAAAGGAAAGGACAAAG
 GAGAAAGAAAAGAACCCCGAGAAACAAGAAGAAGAGGGGGGG CAAGAGGGGAGAGAGAAGGAGAGAACAGCAAGCGGAAGAGAG G GAACCGAAAGGAGCAGAAACCGAGAACAGCCCCGAGAAAGA A A A G A G T A A A G G A T A C G GACAAAGAGAGAAGAA G G G A A
A GAAGAGAAAATACCGGAGCGAGGAAGAAAAGGGGAACAAG GAAGGGGAAGAACGGGGAAAGGAAGGAAGAAGGGAAAACAGG GAAAGGAAAGGGGACCAAAAAAGGGGGGGAACAAAAAAAAAG AGCAAAAAAAAGAAGGGGAGAGACCAAGAAAAAAGAACAACC A A A A G A T T GAGAGAGGAGAGAAAAGAGGACAGAGAGAAGGAA A A A A A A G G G G G GAA $A \operatorname{G} G A G A G A G A C A A A A A G A A A A A G A G A C A G$ A A A A A A A A G G A A A A A A A A A A A A A A G GAGAGAGAAAAAAAC GA A GAGCCAAAGAAAAAGGGGGAAAGAAAGACCCAAAGGGAAAA AAACGAAAAGAAAAGGGGAGGAAAAAGGGAGGGGAGCCBGAA G GAAAGAAAGAAGGAAAAGGGGAAGGAAAAACACAGAAGAAA $A G G A A G G G A G A G G G G G A A A A G G A A G A G G A G A G A A A G A A A G G G$ G GAA $A \operatorname{GAAAA} G A A A G G A A G G A A A A A A A A A G A A A A A G A A A G A A$ A A A A A A A A GGGAAGAAAGAAAGCAAGAAAAAGAAACAGAGAG ACAGGAGGAACAAAAAAGGGGAAAGGGGGAAAAAGAAAAAAA AAACACGGGGGGTTGGAAGGGGAAAGAAGGAAAGGGAGAGCC A GAGAGAAAGGGAGAGAAGGCCAAAAGACCAAGGAAAAAAAA A A A A A A A A A GAAGGCCGGAAAAAAAGAAAGAAAAAGAAAAAG A GCCACAGAAAAAGAAAGGAGAGGACCAGGAGACAGAAAGAG A G A G A GAA A A A A A GAAAGAAAGCCAGAGAGACAGAGGAAAA G C CA GAGAGAAACAGAATTAAGAAGGGAGACAGTAAGAAGAAA A GAGAAAAACAAAAAGAAAGAAGGAGGGAGGAGGCAAAAGAG C CACA G GAAAACGGAAGGAGAAAAAGCAAAGGAGGGGGGGCC G GAGGGGGACAAACGGCAAAAGGGAAACAGAGAGAGAGAGGG CCCACCAAAAAAGAAGGAAGAGAGAAAGACAAAAGGACACAG AAAGGAAAACCCAGAGAGAAAAAAGGAGAAGGAAAGAGAGAA AAAGAAAGACGGAGAGAGGAACGAACAAAAAAAGAGGACCGG A GAGGGGGAAAGAAAGCCGGAAAAGGGAACAAAGAAGAAGAA G G G G A A A G A G A GCCGGAAAGAACCAAGGGGAGAA GAA GAGA G AAAGGGAAAAAAAAAAAAAAAAGAAGAGAAAGACBGAGGGGG $G G A A G G A C A G A A A A A A G G G A G A A A A C A A A A G G G G A G A G A G G G$ C CAA A A A G G G GAACAAGAAGAGGGAAAAAAAGAAGGAGEGAA A GAAA GAGTTAAAAAAAAGAAGAAACAAAAAGAACAGACAAA
 A A A G GCAA A G G G GAGGGACAGAAGGAGAGCAAGGAACCCGGAG $A G G G G A A A A G A A G G A A A G G G A A G G A G A G G A A G A A A G G G A G A A$ G G A A A A A G A A A A A A A A A GAGAAAGGAAGGAAAGAAAAAAGAT A GAAAAAGAGAAGGAAACAGAGAGAAAGGGAGAAGAACAAGC G G G GAA A A GAAAGGAGAAACAAAGACAAAAGAAAAAAAAAAA GAACGGAGAAAGCAAAGGAAAACAAAAAAGAGAAAAAAAAAT $A C A G A G A A G G G G A A A A A A A A A A A G A G A A C G A A C A C C A G G G G G$ G G G GCACCAAAACCAAAAAGAAAACCAGCAGGAAAAAGTAAC A GAGAAGGAAAAGAGGAAAGAAAAAACGACCCAAGCAAAGAC GAGAGGACAAAGAGAGGGGGAGGGAGACGGGAAAAAGAAGAG C CAGCACAGAGGAAGAAAAAAGAGACAAAGGGAGGAGAAGAA AA GAGAAACAAACGGGAAAAAAGGAAGACCAGAAAAGGGGGG AAAGCAAACCGACAACAAAACCAACAAAAGAAGGGGGGAAAAG G GAGGGCACCAAAAGGAAAAGAGAAACAAGAGAGAGAGAAAA C GACAGAAAAAGGAAAGAAAAGACAGGGAAAAAAAAAACAAA AAAGAAAGGACGGGCAACGGAAAGAGAGAGGAGGGAACAGAG AAGAAGGAAAACACGGACCGGAAAGAAGGAAACCAAGGAAAA

 GAAGAAGGAGAGAAATCAAACAAGAAAACCGGAGACACAAAA

ACGGAAGGAAAAAGAGAAAGAGCCAGAGCATTAAAAGACCGG GAAACCAGAGGAAGGGGAGGAGAGAGAGAAAAAAAAGAAGAA A GAAAGAGAAAGGAAGCGGGAAAAGCGGGGCCGGAACCAAAA ACAAAGACACAGAAAACCGGGGAGGGAAAGCCAGGGAAAGAG AAAGCAAGAGAGCCAGAGAGAAGAGGAACCAAAGAGACAGAG A GCAAACAAAAGAGCCAAAGAGAATAAAAAAGCACAABCAAG GAAAAAGGCAAGGACACAACGAGAAAAGAGAGGAGAAACCAC C C G A A A A A G GAAGAAGAAGGGGAAAAGGAGAGAAAACCAAAC A A G GACAGGAAAACAGAGACCAGGGAAGACAGAAAAGAAAAG GAGGCCGGAAACAGGGAAGAACAGGGAGGCAGAAGAACTAGA A A A A GAAGAAA GAGAAAGGAGAAGAAAGGAAAAGATCCAAAA A GAAACAACCAGAAAGAAAGAAGGAGAAAAAAGGAAGAGGAC G G A A A A A G A A A A GAAGAAAAAAACAGAGGATTAAAAAAAGAC A GAAAAAGACCAAGAGACGATAAGAAAAACAAAAGGCCAGAG GAAAAAACAAAAAAAAGGGAAAAAAGAGACAGAGAGAGACAG A A A A A A G A A GA GAGAGGGAAAAAAAAAGAAAGGGAGAAAAAA AAAGGAAGACAAAAACGAACAAAAGCGGACAAGGAAAAAAAG AAAAGAAGAACCCCAAAGAAAGAGGAAAAAAGAAAAAAAGAG $G G A A A A G G A A A C A G G G A G G A A C A G A G A A A G A G C C A C A G A A A A$ A A A A A A A CAGGGGGAAGAAGAGCCGGGGGAAAAGGAACAAAG AAAGAGGAAAGGAGGGCAGAAAAGAAAAAGGGAGAAAGAGAA AAACAAAAGACAGAAAAGCAAGAAAACAACAGGAAAAGACAA A A A G A C A A A C A GAA A G G GAGAAAGAAAC GAAACAGAGAATAG A GAA $A$ AA $A G G G A G A A G A G A A A G A A G A A A A A G A A A A A A A A A C A G$ AGGGAATTAAAGAAAGAAACAAACACAGAACCAGAAAGTAAG A GAAAAAGGGCCAGAGAAGAGAAAGGAGAAGAGGAGGAGGAA G GAGAAAAAAAAGAGAGAGAAGGGCGAAAAAAAGAAAGGGAA A A G A A G A A G A T A A A A A A A A A A A A ACCGAAGAGGAGAACAAAG GAAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{G} A C A A A G A A A G G A A A A A G G G G A A C C G G G G$ AAAGAAAAAGAACCGGGGGAAGAGGGAAACGGAAAATTAAAA $G G A A A A G G A G A G G G A A A G A G A A A C A A A C A G A A G G A G A C A C A G$ A GAGAGGAAAACAGAGAAAAGAAGAGACGGAAAAGGAGAAGAA GAGAAAAAGGAAGGGGAGAGGGAAAGGGCAGAAAAGAACAGG G GAAGGGGAAAGAAAAAGGGAGGAGAAAAAGAAAGGAAACAA G G A A A A T T A A A G GAGGAAC GAAAAAGAAAAAGAGAGATAGAA TAAGGGAGAAAAACAAAAAGCAGAAGAAAAAAAGAGAAACBG A GAGGGAGAAAAAGAAAGAAAACGAAACGAAAAA GAAAACAC ACAGAAGGAGAAGGGGATGGAAAACAGGAGCCGGAGCCAGAG G G A A C G A A G G A G G G A A A A A A GAAA A A G GAGAC GAA GAA G GAA A A GAAA A A A A A ACCGAAGAAAGCAAGAGAAAAAA GAAAAA G G $G G A A G G A G G A A A C C G A G G C G A G G A A G G A A C A G G G A A A G A A A G$ G GAGCAAGCACGAAGAGAAGGGCCACGAAACCAAAAGGAAAG GACCAGGAACGGACCCGGAGGGAAAGGGCCACCAAGGGACAG A GAGAACCCAAAAGGAGAAGGAGGAAAAAAAAGGAGGAGGAG GAGAGATTGGAGGGGAGAAGGACGGACAAAGGAAAAAAAAAG AAAACGCAGAAGAGAGAACGAGGGAGAAAGAAGAAGGGAAAG GAGGGAGAAAACGAGAGAGGAGAGAAAAAAAGAGAAAAAGAA A GAGAAAGAAAAAAACAGAGAAAAGAGAAGAAGGGAAAAACA A G GAGGCCAAGGGGCAAAAAGGGGAGAAAGGAAAAAGGAAAA A GAAAGACGGAAAGAAGGAGGAAGGGGGAGAAGAAAAACCGG GAAAAGCAAGCCAGAGAAGAAGTTAGGGGGAGAAGGCCAGGG AAAAAACCGGAAAACCACGGAACCAGGGAAAAGGGGAAAGAA GAAGACGGGAAAAGAGGGGGAGAGCCAAAAAAAAGAAAAA GA AAAACAGGAAGGGGCAAAAGAGAGAGAAAAAAGGCCGAAACC AAAGGGAAGGGAAAGGGCGGACAAAAGGAAAAAACCAAGGCC G G G G G G G A C C G G G A A A A A A GAAA A A A A A A CAAA A A CAAA A A A A A G G A C G G A A A G G G G G A GAGAACAGACCAAGGAGAGGAAA G G CCAAGGAAAACGAGGAAGCACAAAGAGGAGAAAAAAAAGAAA $C \subset A G A G A A A G A A A A C C A G G G A G A A A G A A G G A A A A A A A A G G A A$

A A A GAGAAAGAGAAAAAAGAAAGGGACAGAAGAAGAAAGGGA GAGGAAGAAAAAAGGGAGGAGGCCAAAACAAAAAGGGGAAAG CCCGCCAAACGAAGGAAAAGAAGGGGGGAATTGGGGAAAAAA AACCAAGACAAAAAAATAAAAAAAACAAAGAGGAAGAAAAGA GACCAAGGAAAGGGAAAGAGAGAAACGGCCAGAAAAAAAAAA GAACAAACAACAAAGGGGACCCAAAGAAAGAACCAGA
GAAAGAGAGACAAAAAAAAGGAGGAAGAGAGGACAAGGAAG A G GAAGAGAAAAAGGGCCAGACGGAGGGGAAGAAAGAAAAAG A A A A C C G A A A G G G G G G A C A A A G G G C C A A A A A G G G A A A G C A A G GAGAAGAAGAGCGGAAGGAGAGAACAAGAGAAAGGAAACCAC A A GA $\operatorname{A} A A G A A A A G G A G A G G G A G G G G G A C G G A G A G C A G A A G C A$ ACAGGGACAGAGAAAAAAAGAGACAGGGAGAGAGAAGGAAAG A A A G A A A A A GAAGGGGAAAGGCAGGACCAAGGAAAAGACACC A A A C A A A GCCAAGAGAAAGGAGAGGGGGAGAGGACAGAAACC C C G A GAAGGCAGCCAGGGACAGAACAGAAAACAAAGAAAGAG GAGGAA GAGAGGAAAGAAAAAAGGAAAGCGAAAAGGAGAAAA TA G GAAAGAAAAATCATAAAGAAGCAGAAGGGAGAAAAAAAG GAACAGGGGGAAAAGGGGGGGAAAGGAGACTTAACCAAAACC GAAGAGGAAAGGAGAGGGAGAGGACAAGAGAAAAAGAAAGAA A A A G A G A C A G A A A C G A G G A G A A G A G G G G G G G A A G A G A G G A A A GAGGGCAGGAGGAAGAAAAGAGGAGAAAAAACAAAAAAAAAA $A C C C A C A G A G G A A G A G A G A A A C G G G G A A C C G A A A G G G A A G G A$ A GAAA $A$ A A A A A GAAAGACAGCAAGAGAGAAAAGGGGGGAAGAG
 A G A TA G A A A A A A A G CACAAAAACAA GAGGAGAGAGGGGAAGAG AAAAGAAAAGGGCAAGAAAAACGGCAGGGGAAAAAGGGAGAG A A G GAGGGAAAGAAGGAAATAGCAAAGGGGAAAAAAAAAAGA GAGGAGCCAGGAAAGGGAACGACGAGGAAAACAGCCAAAGAA G GAGGAAGAGGAACCAAGGGGGAGAGAAGAAAGAAGAAAGAA G G G G G GAGGGAGGGAGAAAAACAGGGAGAGAGGGAGAAAGAA A GAGGAAAGAAAACAACCGAAAGGACGGAAAAGGGGAGAAAA A G G G G GAGGAAGAGAGAGAGAAAGAAAAAGCCAAGGAGAAAG A GAGAGGAAGAAGGAAAAAAAGGGAGAGGACAGAGAAAAAAG A G G A A A A TAAAGCCAGAAGAAAAGAGAGACGAAAAAAAAAAA A G G GAACAAGAGAACAAAAAAAGAGAGGAAAAGAGCAGAGCA GCAGGCAGAGAAAGAGAGAAACAGGAAGAAGGACACAAAAAC AAAAAGAGGAAGAAAAGAAGGAAAAAAAAGAAGGCCGGCCAC A GAA $\operatorname{ACA} \mathrm{C}$ G G GACACCGAGAGAAAAGGGGGGAAAGAGGGACAA
 G G G GCCAAGGGAAGCCGGAAAAAAAAGGCAAACCAAAGAACA C CAGCCAACCAAACAGAAAAAAGGACAAAAGAGAAGAGAGAG G GAGGGAGATAAACAAAGAAAGGGGGAGGGGGAGAAAA G GA T GAAGAGGAAAAGAAAGAGAGAAGAGGCACAAAAGAGAAGACC AAAGAAAAAAAAAGCCAGAAAAAAGAGAAGGAGGGAGAAACC G GAGGAAGAGACGGAGGGAGAGAAAGACAGACGGGAAGAGGA A A G A A GA G A A A G A A A G A A GAGGAAGAAGGGGGAAAAAATTAA A A A A A GA G A A A TA GACAGCAAAAGAGCACCGGGGGGATACBG A A A A A A A A A A A A A GAGAAAGGAAAAACGGGAAGATAAAAAAA A G G GAAAGGGAGACAGAGAGAAAGAGCGAGAGAAGAGAAAGA A A G G G GAAAACCGGAAAGAGCAGGAAAGGGAAAA GAGAAGTT AAAGAGAGAAGGAAGGACAAAGCCCCAGAGAAAAAGAABAAG GAACGGAAGGAACCGAAGAAAAGGAGAAGGAAGGCCAGAGAG G G A A A A A GAGCCGCAGAGACAAAGGGAAAAAAGGAAAGAACC ACAAGGAAGGGACCAGGGAGGGGGAAAGAGAAAGGAAAGAAA GAGAAGGAAGAACCGACCAGAGAGGGAAAAAGCACACACAAC ACAGGAGAGGAAAGCGAGAAAAAAAGCAAGGAGAGAAGAACA CAAAGAAGGAAACAGGAGGGAAGAAGAAAGAGAGAACCAAAG A G A G G G A A A G G G A G A G A G G G G G G C G G A G A GAGACA GACAAA A $A G C A A A G G A A A A G G A A G G G G A G G G C C G A A G A A G G A C G A A A G G$

ACAGGAGAGGAAGGAAACAGGAGAACAGAGACAGAAAGAAAG G G GA G A A A GAA $A$ A $A$ GAAACGAAAAAAAGAACAAAGCCAGACAA A A G G A G G G A A GAAAGGACGGAGGAGAGAAGGGGGGGAAACAA A A A A GAAGGAAAAGAGACAAAAGAGGGGAAAAGGGAAAGAAA A GAGAAGGAAAAAAAAGAACAAAAAAGGAACGGAAAAAAAAC

 AAAAAGAAGGAAGGAAGATTAGAGAGAAAAGAAAAGAGAAAG G G A A G A A A A A A GCC GAGAAAAAAGACACAGACCAAGAAAAGA A A A GAAAAAGAAAGAGAGAGGAGAAAACAGAAAAGAAGAAAA A A A A GACAAAGAAGAAAAGAAGACAACGAACGAGGACACAAG A G A G A A A A A A A A A A TAA A GAGGAATTTTCCAACCAGACAAA G A GAGTAAAAGGAGAAAAAAGAGGACCAGGGAAGGAGBAACTT GAGAGAGGAAGAAAGGTAGGAACAAAGGCAGAACAAAGAAGG G G G GACAGAAGAAGAGAGCCGGGAGGAAAAGGGAAGAAAGGA GAGGAAAGGGCAAGGAGGAAAAAACAGGGGGAGGGGAAGAAA A GAA A G G A A A A GAGGGGAAGAAAGGAGAGAGGAGAGACAAAC GAAAAGACAAAGAGAAAGGGGGAAGAGGAAAAGAAGAAAAAG GGGAAGAAAGCCAAAGCCGGAAAGGGAAAGAAAAGAAAAAAA
 G GAAAAGAGAAGAGACAGAACCAAGGCCAGAAAAAGCCACGG GAGGGAAGAGGGGGAAGGAAAAAAGGACAAAGAGCGAGAGAG A A A G A TAGAGGAGAGGGGAAAACCCAAAGGAAGAAACCAGAA G GAGGAGAAAAAAAAAGGAGAAAGAGAGGGAGAAGGAAAA GA A GAAAAAAGGAAAACCAGAGAACAAAAAAGGGGCAGAGAAAA G GAAAGACAAGAAAGAAAGGAGAAGGCCAAGACAGAAACAAA A GAAAAGGGGAGGGAGAGAGAAAAACGCAGAGCAAGAAGAGG G GAGAGGACCAAGGAAGGAAAAAAGGAAAGGGAACACAAAGG A A A A A A A A A A A GAAAAAGAGGAGGGGGGGGAAAAGGAGAGAA ACGAAAAAAAGAAACCAAAGAGAAAAAAAAGGACCCAAGAAG A A C C A A G G A A A GCA GAA A GAGAGAAAGGGATTGAGAGGAGAA AAAAAAGGAGGGAACGAAGAAAAAAAAAAAGAGAGGGGTTAC $C \subset A A G G C A C A C C A C G G C C G G G G A G A A A C G G A A A A A A G G G G A A$
 G G G G A A G A A G G A A A A GAGAAAAAGAAAAAAAGAGCCAGAGAG A GAGACGAAGGAGGAAAAAAAGAGAGGGAGCCATACGAAAAG A A A GAA A ACCACAAGGAGGAGGGGACAAACAAAGAAAGAGGA A GAAGGCAGGAGAAAAAAAAAAAAAGAGAAAAAGAAGGAAAA T T G G A A A A GAAA $A$ G GAAAAAGCCAAAAAGACGGAAAGGGACAG G G G A G A A GCCAA GAAGAAAGAAACAGCCAAAAAGCCAAACBG $G G A A A G A G A C G A A G G A A G G G G G G A C C A G G G G G G A A G A A C A A A$
 $A G C C A G A G A A G A G A G G G A A G G G G G G G G G A G G A G G G G A G G G A G$ A A A A A TAAAGAACCAGAAAGACGGAGACAGGGAGAAAGAGAG GAGAAGACAGAAGAAGACGGCAAGAAAAGACCAAAAAAACAA


 G G G G G A G G G GAAAGAGGGGAAAAAGGGGCCAAA GAA G G A A A A G A A GAACGAGGGAACCAAAAGGAGGAAAAGGGAGGGGAGAGGAG A G G G GAGGAGACAAAACAGGGGAAAAAACCCAAAAAAGAGAA AAAGAAAGAAAGGGAACAAAAAAGAAGAAGAAAAAGAAAGAA GATAAGCCGAGAGGAAAAACAGCCGAAACAAGAGGACCGGGA G GAAACGATTAGGGGGAAAAAAGAAAACAAGGAAGGCAAGAA $A G A G A A G G A A G G A G A G G A A A A A G A A G G G G A A A G G G G G A G A C A$ A G G G A GAGGAGAAAAGCCGAAGAGGATAAAAGAAGAAAAGAC A GAGGACGAAAGGAGAGGAGAGAGAGCAAGAGCGGAABAGAA A GAA GAA GAAAAA GAGACAGACGAAGAAAGACAACCGGAGGG GGAAAAGGAAAGGGGACAAACAAAAGGAGAAGAGGGAAAGAG

G GAGAGACAGAGGAAAGGAGAGAGAAACAGAGAGAGAAGGGA GAGAAGAAGAACGGGGAACCAGAAGGAGAGAAGAAGAGAAAG GAGGAGGAGAAGACACACGAAAGAAAGAACGAAAAGAACCGG AACGAAAGGAGAAGGAAAAAAAAACAAGGGCAAAAAAAAGGA A GAGGAACAGGAAGAGAGGGGGCCGACAGAAAGAAGACGAGA A A CA $A G G G A A A G G G A C A G G G A A A G A G G G G G G G A G A G G$
G G G G G A G A GAGAGACAGAGGAAGAGAGAGAAAAAGAAGAAG AAAAGAGGGAAGGAAAAGATAAAAAGAAAAGGGAAAAAAGAG A G A G G A G G C C A A A A C C A A A A A G A G A G G A A CA A A GA G A A A A A G A GAAACAACGGAAGAAGAGAGAGAAGAGGACCAGCAAAGGGA GAGGGAAGAAGGAAACAAAAAAGAGGAAGAGAGAGAAGAAGG A A G G A A A A G G G A A G A G A A A CAAAAA A A CAAAA A G G A A GA G G G CACCGAGAAACAAGAGAGAGGAGATTAGAAAAAGAAGGAAGBG G G GAAAGGCAAGAAAGGAAGAGAAGAAAGAAAACAGCAAAAG A G GA GAACGGAAGAGAAAGAGGGAAGCCAAAAAAAAAGAAAA GAAACAAAAAGAGGCAGAAAACGGGGAGGAGAGAACAAAGAC C C A A A G G G A A A A A GAGCAGGCAAGGAAGAGAGAGAA GAA GAA GAAGAAAAAATTAAAGGGAAGGATGAGGAGACAGAGAGCAAA AAAAAGAGGAGGAGGGGGGAGAGAAGGAAAAGAAAAAAAGAA G GAGAAAAAAGGGAAAAGAAGGAAAAAAAGCAGGAAAAACAA ACAGGAACAAGGAGAGGGAAACAAAAGAAAAAAGAAACAGAG G GAAAAGGAGGAGAAGAGAGAAAAAGAGAGAGAAAGTTACAG A GAGAAAAAAGGCCAAAACAAGAGAGGAAGAGAAAAAGAAAG $A C A G A C A A A G A A A G G A G G G A A G A G C A A A G G A A A A A A A A G A G G$ A GAGAGGAAAGACCAAAAAAGAGAGAAGAGAGGACACAAAGG AAAAAGGAAAAGAACAAGAAAGAAAACCAAGGAAAAAAGAAA A GAAGCGGAAAAGAAAAAAGAGAGAGAAAATTAACCAAAGAA AAAGGAAGAAGAAGAAAGACACGGAAAAAAAGAAAAAGAAAA A A A A A A G G GAACAGAAAAAGAAAAAGACAAAGAAGAAAACAC GAAAAAAGAGAGAGAAAAAGAAAGGAAAAGAATAGAAGAGAA A GA $A$ A A A C G G G G G G A G G G G G A A A A G G G A A A A A G GA G C C A A A A G GAAAGAGAAAGAAAAAGAAGAAAAAGGACAGGAGGGGGGGA A A A GAAAGAAAAAGGAAGCCAAAGCGACGGAGAAAAGGACAA
 G G G G G A A G G G A G G G G G G A A A A A G GAAAACAAGAGAAAAAGAA A GCCAAGAAGCAGGAAGAGAAAGGAAAAAAAAGGAAAAAA GA A A A A A GAAAAACAAACAGAAAGCAGAAAAAAAAAAAAAAAAA GACAAGAACAAAAAAAGGAAAAAGGAGGGGAAAGGAAAAGAG A A GAA $A$ GAGAGCAAAACAGAAAGCCAAAAAGAGGAAGGAAAG G A A A A A A A A GAACA GAGAAAAGAAAAAAGAGAAAAACA GAGAA ACAAAAAAGGAGAAGGAGACGGAGAAAAGGGAAAAAAAAGAA A A A G A GA G A G A A A A A A A A G A A GACAGAAAGGGAAAGAAAAAC A GAGAAGAAAAGAGGAAAAGGGAGAAAGAAAGAGGGAAAAAA ATACAGGAGACAAAAGAGGAGGCAGACAAGAGAGAGGACAAA A GAGAGCGAGAAAAGGAAAAGAAGACAAGGGAAGAGAAAGAG G A TAAC GAAAAAAGAAAGAAACCCAAACAAAGGGGAAAAGAA A G A G A A A G A G A GAGGAAAAAGAAGAGGAAGAAAAAAGGAA GA A GAGAACCCGAAAAGGAAAAAGGGAAGAAAACAGAGAGACGG A A A A A A A A G G GAAAAAGGACGGGGCAGAGGGGAACAAAAAAA GAAGAGAAAAACGAACAAAAAGACAACCAAAGCAAGAAAGAG GAAGAGACACAAAGAAGAAGCAAAGAAGGGAGAGAAGAAGAG A GAAAAGAAAGAACGAGAGAAGAGGGCCAGGGAGGGACAAAA
 GAGGAGAACAAAAGGAAAGGAGAAAGAAAGGAGAAAAAAACA G G A A G A A A GAAATTAGAGCAACACGAAAAAAAAAAAAAAGBA AAAGGGGAGAGGCGAGACAGAAGAAGAAGACACCGAAGAAGBG G GCCGGAACAAGAGAGGGAAAAAGGGAAGAAAATCAAGAACA GAAAAAGGAGGGAAAAGGGGGGAGAGACAAAAACGAAAAAAA A A A A A GCCAGAGACAAGACAAAAAAGAGGAAATTAAACACGA

GAACAAAAAGAAAAAAAAATCCCCGAAGAAAAGAACTTAGAG A G A A A GAACAAAAAAGAAACGAAGGAAGGGAAGAGAAAGACA G G G A A A A G A G A A A G G G A A A GACAGGGGGAAGAAAAAAAACAC AAAAGAAAGGAAAAAGAAAGAGGACAAGGAGAGAGAACACAC $C \subset A G C C G G G A A G A A A A A C A A A G G A G G G C G G A A A A A G A G A G A G$ A A A A A G A A A G A A A C GAGAACAGAGGAACAGAACAACAAACAA A GACAGAAAAAAAGGAAAACAGAGAAAAACAAAAAAAAAAAA AAGGAAAAGAAGAGACAGAAAAGAAAAGAGAACCAGAAGGCC GAAAGGAGTTAGAGGAAGGAACGGAGAGAGAAGGAAA GAGAA GGGGCCGAGAAGCAAGAAAAAAAAAAAAGAGGAAAACCACAA G G G G A A G G G G G GCA A G A A G GAAAGAAAAAAGGGCCCAGAAGAC AAAGCCGGGGAACCAAAGGAGAAAAGGGAGAAGGGAAAAGAA GAGAGAGGAGACAAAAGGAACAAAAGAAAAAGGGAAGAAAAG A A GAAAGAAGAACAGAGAGGAAAAGGCCCAGAGGAGAAAAAA AAAAGACAAGAACCACCAAACAGAAGGGGGTTAAGGACAGAG G GAAACGGGAAGAAAGAAAGAAAAAGGAAAAGAAGAGGGGAA A A G G G A G A A GA GA GATGAGAACGGAAAGGGGGGAAAGAAAAA GAAGAGAAGGACAAACAGAAAGAGGGACGAAAAGAGAAATGA AGAAAGGGAACAGAGAAAAAGGGGAACAAGAAAAAGCCBGAA A G G A G G A G C C A A A G A C A G G G G G G G A A T A G G G G G A G G G G G A G A AAAGGGAAGACAATCAAAAAAGGAAGAGAAAGAAAGAAAAAG A A A A A GAGAAACACAAAAAAAAAAAAAAACAGAAGAAAAGGG A A A A A A A A A A G A CAA G GAA AA GAGACAGAAAAA GAGG GAAAA GAAAAGAGCAGAGGAAAGAACAAGAAAGAGAGAAAGAGAACA A A A C A A A A A A A G G G A A A A A A A GAGAAAGAGAAGGGGAA GAA G GAAAAAAAAAAGAGGAACGGAAAAGAAGACGGAAAGGAGAAC ACATAGAAAAGGCAAATTAAAGAGAAAGAGAAAAACAGAGAG A GCCGGAGAAAGCAAAACGGGAAAAACAAAAGAGAGAAAGAG GAAAGAAAAAAGGGAAAGACAAACGGACAGAGAAAGAAAAAG A GAAAAAAGGGGAAAAGGAAGAAAGAAGAGAAAAGGAAAAAG G G A G G G A A A G G A C C A A A A A A A GAGAGCCAGAAAG GAA GAA G G AAGGGACAAGAAAAAAAGAGGAAAAGAAACAAAAAGAACAAC AACAACAGGAAGAGGGAAAAAGAGACAAAGAAGAAAGAAAAA GAACAAGAAAGAGAAAACACAAAGAAAGAAAAAAAAA GAGAA A A A A A G G G A G A A A GAGAAGAAGAAAAAGAAAAGGAAACGGGG
 G GAGGGAGAAAAAAAAAAGGGGAAGAGAAAACCAAGACAAAG A GAGAAAGAAAGCAAGGAGAAAAGAAACAAAAAGAAAACCAG AGACAAAGGAAACAAGACAGGAACGAAAAGAGAAAGAAAAAA A A A A A C A G A A A GA GAGAAAGAGAAAAAAAGAAAGGGAACAAA AAAGAAGAGAAGAGAAAAGACAGAAGGAAAAGAGAGAGAAAG A G G A A A A CACAAACGGAAAGTAGGACAAAAAAAAGAAAAA GA AAACGGAGAAAAAAGGAAGACAACAGAAAAAAAGAAAAAGAA AAAAAAGGGAAAACACGGCCAAGGAAGGGAAGGGAGCAAGAG G GAAACCACAAGAGGAAACAAAAAGGAAACACAGGGAAAAAA G G A A C C A G A A G A A GAGAGCCGGGAGGAAAAGGAAGGGGAABA A G G G G GA GAA $A \operatorname{AGGGCAAACATAAAGAGGGAGAAGGGAGAGCA}$ A G GAA A ACACGGACAGCCGGAGGGGGAAAGAGAACAAAAGAG ACAGAGAAAGAAACAGAAGGAACCCCAAAGGAAGACACAAAA
 G GAGGGAGAGGGAAAGAACAAAAGAGGAAGGAAGAAGAGAAG A G GAAAAGGGGAGAGAAGAGAGGAAGGAGGGAAGAAAAAGAA A A A G A A A A G A A A A G A A A A G G A G G A A G G A G A A A A G A GA G A G A G AGAGAGAGAGAGAAAGAAAGAAAAAAAGAAAAAAAAAGAGAA A GAGAGAGAGGAAAGAAAAAGGGAAAGAAGAAAGGAAAACAG $A G C C A G A G A A A G G G C G A G G G A G A A A A A A A C A G G A A G A G A G A G$ ACAGAAAAAAGAAGAAAGAAAAAAGGCAGAGAGAAGGAAAAA A GAGAAAAAAACACACAAAAAAAAGAAGAACAAGGAAAAAA G AGAGAGAGAAGGGAAAGAAAAAAGAAGGATGAAGGAAGAAAG

AAAGAGGAAGAAAGACAAAAAGGAAAAGAGGGGAGAACAAAG A GAGGAAGCCAGGGAAAGAAGGAAAGGGCCAAGAAGAAAGAA AAGAAACCCCCCCCAAAACCCCGGGGGGAAAAAAAAGGAGAAA A A A GAGCCAGAGAAACAGAGAAAAAGAGGGAGGGAGCCGAGA $C \subset A A A A A G A A A C A C A G A A G G A A A G G G C C A A C C C A A G A A G A G G$ AAAA A GAAAGGAGGCCGGAAAAAGGGAAAAAACAGGG
$G C C A G C C G G A A G G G G C G G A A A G G C C G A C C A G A A G G C A A A G G$ GAAAAGACAGAAAAAAAGAGAGAACAGAAGGGAAAACAGGGG A GACGGAAGAGACAGGAGGAAAAGAAAGGGAAAGCCGAGABA A A A A G G GAGGGGCCGGAAAGGAAAGGGAGGGAAAAGAAAAAA G GAAAGAGAGAGAAAAAGAGAAGAACGGAGCAAGGGCAAAAC ACAAGAACGGGGATAGGAAGAAAAAAAGAAAGAGACAGACAA A A A G G A A G A A G GAAAAA A A A A GAGAGAAAAGAAGACAAAAAA A G A A A A A A A G A GA $A$ A $A \operatorname{A} A G G G A G C G A G A G G G G A A G G G G G A G A G$
 A GAGAGGAAAAGAAGAAGAAAAACAGAGCCGGAAAGAGAAAG ACAGAGGAAAAAAAAAAAGAAGAGCAGACCACAAAGABAGAG G G G A A GAACAACAGAGAGGGGAACCCAAGGGGAGAGAGAAAG $G G A A G G A G A G G G G A G G A C A A A A A G A G A C G A A G A A A A A A G G A A$ $A G G A A G G G A A A G G G G A A A G G G A G A G G A A A A G G G G A A A A A G A A$ AGCCAAAAAGAAGGGAAAAGGAGAGAAAAGGGAAAAAAAGAA GACCAAGGGGGAGGGGGGAAAAAACCAAGGAAAGCAGAAGAG G G A A A A G A A A A A A G A A A CAGAAAGAAGGACAGGACCAA G GAC A GAA $A \operatorname{GA} C A A A A A A A G G G G A A G A G C G G A A A G G G G G A A A C C B A$ A A A G G G G G A A A G G G C A G G G GAA A G A A A A G G GACAG GAC G G A A ACAAGAAAGGGGGAAAGAAAGCAGAAAAGAAGCAAGAGAGAG C CAGGAGGAAAAGAAGGAAAAGAAAGAGAAAGAGGGAAAAAA GAAGAAGGGGCCAGAGGAGAAGAGGAAGAGGGCAAGGGAAAA G G G GAGAAAAGAAGAGAGGAAGGAAAAAGAAAAAAGGAGAAA AAGGGAAGGGAGAACGGGAGAATTAGGAAGAGAAAGACACAG
 AAGGAGCAAGGCAGAGAGAAAGAGAAACGAAAGAACAAACAG CAAGAAAGAAAAAGAGAAAAAAAAAGAGAGAAAAAAAAAGTA ACAAAAAAAAAGAGAGCCAAACAGAGAAGGAGAAAAAAAACA GAAGAAAAAAAGAGAAAAAAAGAGGGCCAACGATAAACAAAG A G A A A G G G GAAGGAGGAACCAGAAAGACGAAAAAAAAGAAAG A GAAA A A A A A A A A GAGAAAAAAAAGGCGCCAAAAAGAAAAAG A ACAACAAAAAAAGAGAGATAAAAAAAAATAGACAAAAAGAA A A A A G G G A A C G A G G GAGAGGAAACAAGAAGGGGAGGGABAA G AAA A A GAGGGCAGAGGCACCAAAAGGAGAACGATACAAGGGG AAAAGAGGGAGGAAAGAGGAACGGAAAACAAAAACCAAAAAA G G A A A GAGAACCAAGGAGAAGGAAAGAGAAGAGACCTTAAGA A GACAAAAGGGAACAAAAGGAAAGAAAGAAACAAAAGGAAAG AACCAGAGAGAAAAAAAGCCAAGAAAAGAAAAAACAGGGGAA A GCCCAAGAACAAAAGAAGGAAAGAAAGCCAGAGGBAAAGAG G G G G G G A A A G G A A G A A A G G A A A A GA $A$ A A A GAGGGGGGAGAA G G A G A G G G A G G G G G G A A A G G C C A A A G A A A GAAA A A A C C A A A A A G AAAGGAAAACCAGAAGGGAGAGAGTAAAGAGGAAAGAGAGGA G G G GAAACGGAAAGAGAGAGAAAGAGAAAGAAAGGGAAAAAG G GAGACAGAGAAAGAGAGACAGGAAAAAAAAAAGGAAGACAC A GAAA A A A A GACGAAGAAACAACCGGAGGAGAAGGACACCAA ACAACCAGAGAGAAGAAAAACAAGAGAAACAAGAGAAGAGGA A G G G A A G A A A A G A A A G A GACAGGAAAAGGGACAAGGCCAGAA G G G G G GAAAGAGGAACGAAAAGAGAAAAAGCCAAAGAGGAGG A GAGAGAAGGAAACAGAAAAGGACAGAGCCGAAGAAAGAGGG G GAGAGAGGAGAAGGAAGGAGGAAAAAAGAGGGGAAGAAAAG GAGGGACAAGCCAGAAAACCGAAGTTAGAAGAGGGGAAAAAT CAACAAGAAGACAGAGAAGGAAGAAGCAAGACAAACCAAAGG A G G GAAAGGGGAGAAGCCAGAGAGAAAAAAAAAAAAAAGGAA

AAAGAAAGAGAGAAGGAAGGAAGGAGCCAAAAGGAAGGGGGG
 G GAAAAAGGGAGAAGACAAGAGAAAAAGAAAAAAAGGAACAC A GAAAGAAAACCAAGGAAGGAAGAAAGACGGGACGGGGAAAG ACAACCAAGGAAAAGGAAAAACAGGGAGAGACAAAGAGAGAA A A A A A A G GCCGGGGAGGAAGACAAACAAGGCCGAAGAGAGAA A G A A A A A G G G G G A A A G G G A GAGGGACAGAAGGGAA GAAAG G G GACAAAGGGAACAGAGGGGAGGGGAGAGCAAGAAAGAGAAAG ACAAAGAGGAAGAAAGAAGGCCAGAAGGGAGAAGGAGAAGAA AAGGAAAGAAAAAAAACAAGGAACAGGAAGGAAGAGAGAGGA $A C G G A A A G A A G G A A A A A T G G G G A A G G A G A G A A G G G A A G A G A G$ GACCAAGAAGAGACGGAGAGAAAAAGAGACAGAGACAGAAAC ACAAAAGGAGGAGGAAAAAGAGAAAAAGAAGAAGAAAAAGAG G GAAAGGAAGGACAATACAGGAAAGGCCAGCCAAAAGAAAGG AGGGAAAGAGAGAGAGGCGGGGAGAAGGCAGAAGGAACAAGA A G G G GACA A A A GAAAGAAAAGGAGAGGGAAGGAAGGCCAAGA GAACAAAAAGGGAAACAGGGGGAGAGACGAGAAGAGAAAAAG A GAGCCGAAGAGGAAAAAGGAAGACAAAAGGAGAGAGAGAGAA GAAAGGCCAGAGAGCCAAGAGAAAAAAGAATTAAAAAAGGAA A A G G A A G G A G A G G G G G A G A GAAAAAGACAGGGAAAAAA G GAG A A A A GAGAGAAGAAGAAGCCAGATAAAGAGAAGAAAAGAAAA AAGGAGAAAGAAAAAGAAAGAAAGAAGAAGACAAAAAGAAAA AGGGCCAGACCAAAAAGAAACCCCGAAAAAAAAAGGGGAGAA A A A A A A A A A C G GA $A \operatorname{GA} A G G G A G G A A G G G A G A G A A G C A G G A C B G$ G G G GAGGAGAAGAAGGAAGAACAGAGAGGGAGGGCCAAAACC $C C G A A G G G G A G A G G C C G G G G G G A A A G A A A A G G C A G G C A A A C A$ GAAGTAAAGGGGAGGGACAGAAAGAGAAAAAAAGGAGGAAAA A A GAAGACGGAAAAGAAAGGGGCACCACAAAGACGGAAAAAG A A A A G GAGAAAAAAGGGGAAAAGGGGAAAAAAGGCCAGAGAA G G G GAGAAGGAAGAAGAGAAAAAAAAAAAAAAAAAAAGACAA C CAAAGAAAAAGAAGGAGAGAAAAAAAAAAAGACCCGGAAAA AAAGAGACAAAGAAAGGGACAGAAAGAAAAAGAAAGAAAAAG A GAAAAAGACAAAAAAAACCTTGGAAAAAAAAAA GGGGGGGG A G G G G A G G G G G G T T G A G G G GAGGGAAAC GAAGGGGAAAAAA G GAAGGAAGGGGGAAGAAAGGCGTTAAAAAAGGAAAGAGAAAA A ATTACAAACAAGGAGAGAGAAGAAGTAAGAACAAAAAAAAG AAAAAGAGGACAAAAAAGAGGACCAAAAAAAAAAAAGGAAAG GAAAACAAAAAAAAAAAAAGAAGGAACCGAGGGGAAAAAAAA C CAAACAACCAAGGGGAAAAAAGAAAGGAAAGGGGAAGAACC GAAACAAGAGAAGAAGAGACAGACGGGGAGGAAACAGGAAGG A GAGAAGGAAAGACAAGGCAGAAAAAGAAGAAAGGAACAGAG AAACGAGAAGAAGGAGAACAAAAAGAAAGGAGAGAAAAAAAA GAGGAAAGAAAGAAGGAAAAAAAAAAGGCAAGAACCAC GAAA A G A A A GA G GAA $A$ A $A \operatorname{GAGAGCAGAAAGGAAAGAAGGAGAAGGAA}$ CAGAGAGAGGAGGGCCAAGAAAGGAGAAAGAGAAAGGGAAAG A G G G A A G G G G A A C C G G A A GAGGACACAACCAAAA G GAAGAGGG AACGAACGGAGGAGAGAACAACGAAAAAAACCAAAAAAGGCC A A A A G GAAAAGGAGCCGGAAAAGGAGGGAAAGGGAGCCAGAA G G G GAACCGGGAGGGGAAGGGGAAAGAGACAAGGACGAAAAG A GAAAAAAGGGCACAGGGAGAAAGGAGGGAGAGGCAGAAAAAA A A GAGAAGGGAGAGAGAAGCAAAACCAGAGAAAGGAAAAAAC AAACGGGAAACCAGATAGAAAAGGGGCAAGGGAGGAAACCBG A A G A A A A G A A A GCCA $\mathcal{A} A A A A A G G G G G G G G G G G G G G A G A C A G B A$ A GAAAGAACAAGACGAAGAAAAAGACAAAAAAAAGGAGCCAA CAACAGAAAGAGAAGAAACCAAAGAAAGAAGGAGAAAAAAAA A A A A G A G A A G A A A A A A A A A GAGAGCCAGAAAGAGAGAAACAA GAGAAGAGAAAAAAAAAACCAACGAGGGAGAAAAGAAGAGGG CAAAAAAAGGAAAGAGAAAGAGAGAAAAGAGAAGAAGGAAAC AAGGGAAAAGAAGGAAAGAAAGCCAAACCAAACCAAGGAGAG
$C \subset G A A A A G A G A G G G C A G A G A A G C C G G G A A G A G A G A G G A A A A A$ ACAAGAAGACAGCAGAAGAAAAACAAAAAGAAAAAGAGAGAA AAAGGATTAAAACACCCCAAAGGAAGAACCGGAGAGAAAAAA ACAAAAAGAGAAAAAAGGAGGGAAGCGGGGGGAAAAGAAAGA A G G GAGGGAAGGAAAAAAAAAACCAAAGAAACGACAAAAGAC A G T A A A A G A A A A A G GAA A A A A GAAAAAGGGAAGAA GA
AAAGAAGAAGAAAAAAAGGAGAACGCGAAGGAGAGAAAGAG AAGAAAAGCCAAGAAAAAAAAAAGAGAGGAAGAGAAAAAAAA AC G G A G A G A A A A G G G G A A C C A G A G G G G A C G G G A G A A A A A A G G AACAAGCCGAAGGGGGAAGGAAAAGAAAGACCAGACAAGGAG AACCAGAAAAGGAAGAAAGGAAACAGTAAGAAGGAAAGAAAA A A A G G A A G CA G GAAAA $A \operatorname{A} G A A A G G G A G A A A A A A G A G G G A G G B A$ CAGGGGGGGACCAACAAGTAGAAGAAAGAGAGAAACAGAAAG G GAGGAGAGAAAACGAGAAAAGGGAAAAAGTAAAACACAAAA GAAAGGAGAAGAGAACGAAGAAAAAATTAAAGGAAGACAGAC AAAGAGAGGAGAAGAAAAAAAAAAAAAGAAGGAACAAACAAA A GACGGGAAGGAAAAGAAAGAGGGAAGGAAGCGAAGAAGACG A G GAAAGGGGAAAGCAAACCGGAAAGACGAACAAGGGAAAGA AGCCGAGGAAAAGGGAAAAAAGGAAGAAGAAAAAAGAAAAAG A G A C A A A A GAAAAACGACAAACGGAGAGGAAAGAAAAAAAGA AGAGGGGAAAAAAGAGAGGAAAGGGAAAAAAGGAGAGAAGAG A A A A ACAATTGAACCCATACAGAGAGAAAAAAAAAGAAAGAA CAAAACAAAAAGAAGAGGAGGGCACCAGCAGGTTAAGGAAAA G GACCAAAAAACAGGGAGGAAGAGCCGAAAAGAGCCGGAAAA A GAGGAGGAAAGAAAGAGAAACAGAAAGAAAGACAAAAAAAG A GACACAAGGAAAAAGGAAAGCAAGGCATAAAGGGGAAAAGG A G GAAAAAAGGGGGGGAAGGGGGAGAGGGGAAAAAAAGAGAG ACAGGGGCAGAGAGAAAAAGAAAAAAAAAGAAAGAGAAAAAG A G A A A A A G A GAACAAGCCGGAGAAACACGGGAAAAAAAAAAA AGGGACGGAAGGGGGAACAACCAGAAAAGAAAACGAACAAGG A G A G A A G G A GCAA GAGCATTAGAGGGAGAAACGAGAAAAAAA AAAGAAACAACAGAAGACGGAAGGAAGAAAAAGAAAAAGAAA GAACAAAAGAAAGGAAGAAAGAGGGAAAAGAAGGAAGAAGAG A A G G A G G A G G G A G A A A G G G G A G A A G G G G G A GAAAAAA A A A A G A ACGGAGAAAAAGAGAAACAGAAGAAAGAAAAAACAAAAAAAG A G A G A A A C A A A A A G A A A A G A GAAACAGAGAGATTGGACAGA G ACAAAAAAAGAAAGAAATAAAGCAGAAGAACAAGGAAAAGGA AAAGGAACAAAAAGAAAGACAAGAGGAAAGGGAGGGGGAAGAA A GAA $A$ G A GAAAAAAGAAAGAAGAAAAAGAAGAAAAAAAAAGAG A G A A A A A G A C A GA GAGAGCAAAGAGAAAAAACAGBAAGAGAA A A A A A A A G A A A GAAAAAAGGAGAAGAAAGAAGAGAGGGAAGA $G G A C T T A G A G A A G A A C G A A G G G A A A G A A G A A A A G G G A C A G A A$ A G G GAAAAAGGGAAAAGGAAGGAAGAAGCACCCCAAAGACCC CAAGAAAAAGCAAGACAAGGCAAACCAGAAAAGGAAAAGGAC G GAGGGAGAAGGCAGGAGAGGACCAAACGGACAACGGGAGAA A G G G A A A A A A G G G A G G GAGGAACCGGAAGAGGAAAGA GAGAA
 GAGGAGAAAAGGAAACAGGGGGAGACGGAAAGAGAAAAAAAC G GAGAGGAGGAAAGCCGGCAGGAAAAAGAGAGAACCAAAAAG A A A G A A A A A GAAGAAGAAACAGACAGAAAGAGAAAAGGACAG G G GAAACCAGAAAAAAAGGAAAAGAAAAAAAAGAAAACAAAG AGAACAAAGAACAGAGAGCAAGAGGGGCAAAAACGAAAAAAA A A G A A C A C A G A A A G A G A A A C G G C A C C CAAAAAA G G G G G G G A A A GAACCAAGAAAGGAAAGGGAGCCAGCCGGGGGGCCGGAAGA A G G G G GAA A GAGGAGACCATAGAACGCAAAAGAAAGGAAAAG C GAAGGGACCCAACAAAGGAAAGGGGCCGGCAGGAGGGAABA A GAGAGAAAGGGGGAGAAAAAGAAAGAAAAAGGAAAAAAAAG GAAAGAGGGGAGAAGACCAGAGTAGAAAAGAAGAAAAGGAAA GAAAGGCCAAGGAGAAGGAGGGAGAAAGAAAACCAAAAGGGG

A GAAAGCCCCAGAAAAAACAAAGGCGGGAAAGGAAGAGAGGG A G A A A A A A G G A A GACAGGCCCCGAACCCAGAGAGAGAGAAGG G G GAAAGGGGACAGGGAAAGCCCCAGGAAAAAACAACAAGGA GAAACAGGGGAGAAAAGGAGAAACAGAAAGGGGAAGAAAAAG G GAACCAGGAAAGAGAAGGGCAAAGGAAAAAGCACAAGAGAG AAAAGGAAACAAAGACGGGGGAAAAAAAGGAAAGAAAAAGGG
 AAAGGGAGAAGGAAGGCCGAAAGGACGGGAGGAAGGGGAAGA A G A G G A A A G G C C G A A G A G A G A G G A A G A A A A G G A G G G G A A A $\mathcal{A} A$ A GAAAAAAAGAAGAACAAAGAGCCGACAGAGGAGGGGGGGAC ACGACCAAAGACGGCCAATTAGGGGGGGGGGAGAAGAGAGBA G G GAGGGGAAGGGGGAGAAAGACAGAGAAGAAAGAGAAAGAA AAGGAAGAGAAGAAAGAGAGCCAAACAAGGAAGGAAGAAA GA A A G G A A A G G G A A A A A A A A A A A GAGGGAAGAGGCAACGGA A A A A G G GAGCCAAGGAGAGGGGGAAAAGGAAAAAAAACATAAAAA A G G G G GAAAGACAGAAAAAGATGAAGGAAGGAAAGAGAAAGA A A ACAGAGGGGGAGAAAACCAAAGAGAGCACCAGCAAAGAAA AGGAAAAGAGGACCAAAAAGCCGAAAAAAAAAAACAGAGGAA AGGAACAAGAAGAGAGAAAACCAACAAAACAAGAGGAACAGA A A G G A A A G A A A G A G A A A A G G C A A G A GAGAGAGAGA GAAAAAC $C G G A A G A G G A G G A G A G A A G A G G G A G A A C G A A A A G G A C A A G G A$ AAAAAAGACAAAGACAAGGAAGAAGACAAAGAA GAAAGGGGG G G GAGGAAGAAAAGAGAAACAAAAAAAAAACCGGAAGGAAAG A A A A A A A A A G A G A C A A A A A A CAGGAAAGAAGAAAAGAAAA GA G G G GAGAAGGAGAAAAAAGAAAAAGGGGAAGAAGACAGAGAG G GAAAAAGAACCAGCCAGAAAGAGAGAAAAAACGCAAGAAAA G G G GAAAAAAAGAAAAAGGGAAAGTAGAAGAGAGAGACACAA A G G A A A A G A GCAA GACAGAAAAGGGAAAAGCAAGGGAAGAAG G G A A G A G A A A G G G G A A G G G G G A G A A A A G G A A G A A A A GA G G G G AGAAGAAGCGAGAACAAAGGGGAGAAAAAAGAAGAATACCGG G G G G A A A A G G G G G G A A A A G GAAAA A G GAGAGCCGGCCC GAA G G CAGAAGGAAGAAAGGAAAGAAGGAAACCAGACCCGGAAGGAG ATAGAGGGAAGAGGGAAGAGAGACAAAGAAAGAAAAACAAGG C CAGGGAGAAGAAAGAAGAACCCAGAAGAAGAGGAGACAGAC A A A A A G G A A GAACAAGGAAAGGGAAAGGAGAGAAAACCAGAA A A C C C C G G A A G GAAAACCAACCGAGGAGGGAAAACCAAAAAA G GAA A G GAGGCCAAAGGGGGGGGGGGGAGGAAAAGGAAAAAG AAAGAAAGAAAAAGAGAGACAAAGAGAAAGAAAAAGCAAGAG GAAAGGAGAAAAGGCAAAAGAAAGACAAGACCBAAGAGAGAG C GCGAGCAGAACGGAAAAAGGGGGGAAAGAAAAAAAAACAGG AGGGCCCCAAGAGAAGACATAGAACAACAAAAGGTTAATTGA A A A A A A G A A A A A A A A G G A A G A G A A GAGGAGAAGAA GAAA A A A AAAAAGGGGAAACCGGCCAAGAAACGCCACAGGGAGAAAAGG A A GAA A A GCGAAAATTGGGGAGACAGAAAGACGCACGACAAG A GAA $A$ A A G A GCGCAAAAGGGATAAACAAAAAAACCCAAAGBA A GAA $A \operatorname{GA} C A G A G G A G G A A A A A G A A A G A A A A A G G A A A A G A A A C$ A G A A A A A G A G A A A G G A A A G GAAGAAAAGCAAGAACAAGAAGA A GAAAAGAA GAAAGAAAAGAAGGAAGAGAAGGAAAGACAGAA CAAAAAGACCGGAAGAGGAAGGGGATAGACAGAAGCAGAAGA A ATTACAAAAAACAAGGGAAAAAGAGAGAAAAAAGAAGAGAA ATAAAAAAAGAAAGAAAGCCAGAAAGGAAGAAAGAAAAAGAA A GAAA A A G GAA A A GAGAAAGAGGAGCAGGAAGAGAAAAGGGG A G A A A A G A G A A A A A TACCAAGGGGAGGAAGGAAAAGAAAAGA A GATAGAAGGAAACCGAGACCCGAGGGGGGAGGGAGAAAGAA GAAGAGAAAGAAAAGGAGAGAGGAAAAAGGAGAGGAAAAAAA A GAGGAAGAGAAAGAGAGAAAAGAGAGAAGACAAAGACAGAG A G GAA GCAAAAGAAAGAAACAAAAGGAAACAAACGAAAAAGA G G A A T T A GTTAAAAAAAAAGAAAAGGAACGCCGAGGAAATAA CAAAGAAAAGAGGGAGACGGAGAGAAAAAGAAAGAGGGAGAA

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GCAGAGGGGACCAAGAGACGGAAAGAACCGAACCCAAGCAG AAAAAAGAGAAGAAAACCAGGGGGAACACAAAAGCAGAAAGG A G G A A T A A A A G G A A G G A A A A G G A A A GAGAGAAAA A A A CAAA A A GAGAGAGAGAGAGAGAGGGAGAAGAAAGAGGAGAAAAAGAA AAAGAGAAAAAGAAAAAATTAGAGACAGGAAAACGACCACAG A A ACACAAAAAAAAACGAGAAGAAGGAGAAAGCAAGAACA GA A G A A A A A A A A G A A GAGGGAAAAAAAAAAACGAAGATGGGGAG A A A A A G A A A A A GAGGCAAAGGCAGGGAAAAGAAAAGAAAAAA AAAGAAAGACAAAGAAAAAAGAAGACAGAAGAGGAAACACAG G G G GAAAAACAGCGGGAGAAAAAAAAAACCAAGGGGAGACA G
 A A A A A A GACCACAAAGAGGGGGAAAGGAAGAAAAAAGAAGAG C CAAA GAAAAAAACAAAAAGAAAAAGAGGGGGAGAAAGAAAA C CAGGGAAACTTGGGGCAAAAAAAGCGAGGGGAAAGAGAAAG GGCCAACCAGGGAAAGTTGAAAAGAGGGGAGCGGAAGGAAGG
 A A A G A A A ACCGAAGAAAAGGAAGGAGAGGAAAAAAGAAACGG G GACTTCGGGAGAAAGAAAGAAGAGGGGAAAGGAAGAAAAAA A A A A A A A A GAA A A A A A C G A A A GAGAGGGAGAGAAGGGGAAA G GAAAAAGAAAGGGGAAAGAAAAAAAAGGGGGGGGGGAAAAAA G GAAGGCCAGAGGACCGAAAGAAAGAAACAAGGAAGAGTAGA ATTTAGAGGAACAAGGGGAGAGAGAAGAAGAGGGAAGCAAAA G G A A A A A G G GACGAAGAAAAGGCCAACCAAAAGGAAAGAATT AGAAAAAGCCAACCAGAAAGAAAAAGAAAGGAAAAGAACAAA A A A G G A A A G G A A A G A A A G A A A G A A G G G G A A G G A A C A A G A C G A A GAAAGAAAGAAGAAGAGGGAAGGAAAAAGAGGGGGAGAAGA G GAGCAAAAAAGGAGATTAGAGAAGAGGAGGGAGAAAAAGGG A A G G A GAGGGAAAGAAAAAGGGAAAGGAAGAAAAAAACAGAG GACAGAGAAGAGAGAGGGGCAGGAAGAGAAACCCCCGAAAAA A A A A ACCACAAAAGAAACAAAAAAACAAGAAAAAGAAAAGAG A GAGAAAGAGAAAGAGACGAAAGAAAAAAGAAGGGGAAGAAT AAAAGAAAAGGAGAGAAAAGCAGGGGGAAGAGAAATAAAAAG A GAGAAAAGAAAAACAAGAAAGCAAAGAACACBAAAGAAABA A G GA $\mathrm{A} G \mathrm{G}$ A A A A G G GAGAAAGACAGCCAAGAAAAAAAAAAGAG AAGGAACCGAAGAACCGGAAGGGAAAAAACAAAGACGGAGAG A A A A C C A A GACCGGGGGGAGAAAGAAGAAGAGGGTAAAAAGA AAGAGGGAGACAGAGAGGGAACAGAAGGATCGGAGAGACGCC CAAGCAGAGAAGAACCAAGAAGAAAAAGAAAAGAAGAAGAAA A A G G A A A A A GACAAAGAAGAAGAAGAAGGAGAAGGGAAAAAA A G G A A A A A G G C A A GAGAA $A$ A A A A A A A A A A A A A A A GAAA G G G G C A GAGAGAAACAACAGAAAAAGGAAATAAAAAGAGAGAAAAAA A GCCAGAGGAAGAGAAGAGGAAAGAGAGAAGGGACAACAGAG ACTAAAGAGAGAAAAGGAAGGAGAAAAGCAAGGAGAAAGACC CAAGGAGAACAGGGGGAGACACAAAGGAAGAGAAAGAGAA GA A G G A G A G A A A A A GA G G GAA $A$ A A GAGAAAGACAAAGGAAACAAA T T A A A A GAGGGAGGGGCAACAGGAAGAGACAGAGCAAAAGGG A G A A A A A A GAAGGCAAAGAGAAGCGAAAAAACAAA GAAACTA AGAGAAAGAAGAAGAAAGAGGATTAAAAAGAGAGAAGAAAGG A GACAGAACGAAAAGGGGAGAAAGACGGGGGGAAGGAAGAGA GAGGGGGGAAAGGAGAGAACAGAAGAAAAGAGAGAAAATXAA
 A A G A A A A A A TA GAGAGAAAGAAGGAAAGGAAAAGBAACGAAA AAAAAGAGACGGGAAGAGAGGGACCAAAAGAAGAAGGGAAAG

A GAAGGAAAAAGCAGGAAGGAGAGAGAAAGGACAGAGGAAAA C CAA A G GAAAGGGAAAGGAAAGAAACGAAAAAAAAAGACAAA A A A A A A G G A A A A A A A C G GAAGAAGAAAAGGGAAAAAAA GAAG G GAGGAACAGGAGGGGGAAAACAGAGGAACAGAGAGAGAAGA G GAA $\operatorname{G}$ G GAGGAGAAAGAAAGGAGAAAAGAGAAGGGGCGCCCA C C G G A G G A A GAGGGAGAAAAAAAGGAAGAAAAAAAGGGAAA G A G A A A A A A A GAACCAGAAAAAGAGAGGGCCAGAGAGAGAGAC AGCCAGAAAGAGACGATTAAGAAATAAGGAAGGAAGAGACAG A G A A A A G G A G A CAA $A \operatorname{G} G A A A G A G G G G A A G A A A G A A A A A A A G A A$ ACGGAGACAAGGAAAAGGAAAAAGACGGAAGAGAAACCGGAA A GAGGCGGAACCAAAGGGAGACGACCGAAGAGGGAGAGAGAG G GAGAGACGGGAAGGAGGAGAGAAGGGACCGACAGGGAAAAG $G G C C A G A A G G A G A A A A A G A A G G A G A A C C G A G G A A A A A G G G A C$ C GAGAGACACAAACAAAAAAGGAGAACAAGAGAGAGGGAAAC T TAAAAACACAAAAGAGGAAAAAGCCGGAAGAAGAGAAGAAA AAGAAAAGAACCGGAAAGGAGGAAAAGGAAAACCCCAAGAAA G G GCAGAAGAAGACGAAAAGAAGAGAAGAAAACCAAACAAAA $A C G G G G A G A G C A C A C A A A C C A G A G A A G G A A A G A A A G A A G G G G$ CAACGACAGAGGGAGAGGGAAAGAAGAAAGAAAAAGAGCCGG CACCAAGGAGGGAGAGGAGGGAAGAGAGGAACAACCAGAAGB G GAAGGAAGAAGAAAAAGTTAAGAAAGGAAAGAAAAGGAAGA G GAAAGAGGGAGGAACGAAGGAGGGAAAGGAAAAAAAACAAG GACCAAAGAAGGGGAGAGAAAGAAGGAGGAAAAGAGAAAACA AAACAGGACAAGGGGAGGAAGGAACCGGAAAGAGAGAAGAGG G GAAAGAACCAAAAAAGAAGGAAGACAGGGGGCAAAACAGCA CAAGGGGCACGGAAGAGAGAAACCGGGGGGAAAGAGAAAGGG AAAAGGGAAGGGGAAGGAAAAGAAAGAAAAGAAGCAAAAAAG AAAGAAGGAAAGAAAGAAAGAAAGAAAGAGAAAGGGACAGAA AACACAAGAAGAAAAGGAAAAAGAGGAGAGAAGAAAAAACAG A ATTGCAAGGACAGAGGAGAAGGAGGAAAAAGGGGGAGAGAAG
 A GAAAGAGAGAGAGAAAGGGGGGAAAGGACGAAGGAGGGAAG A A GAGGAAGAGAACAGGAAGAAAAGGAGAGGGAGAAAAAAAA $A G A C G G G G A A G A G A A G A G A G A A A G A G A G A G A A A A A A A G G G A A$ A GAGAAAGAGAGAAGGGAAGGAAGGAAGGAGGAAAGAAAGAA A A A G A A A G A GAGAAACACAGAGAAAAAGAAAGACACAGAGCA G GAAAAAGGAAGACCAAAGGGAGGAAAGGAGAGAAAAAGGAG ACACAAAGACAGGAGGGGAGGGAGAACCGGCAAAAAGECCAG A A G G G A A G A GCAACAGAAAAGAGGAAAAGAGGAAACAAGGAC
 A GAACAGGAAAGCCAGGAAAGGAGGAAGAAAAAAGGGGAAAG C CAAAGGGGGAACCACAAAAAGGGAAAAGGAAAACCGGACAG ACAGAAAAAAGAAAACGGAAAAGACAAATAAGAAACATAGAG A GAGGGAGAGAAAGAAAGACAAAGCCAAGGGAAAATAAAAAA A G A A A GAAA A A GAAAAAAGAAAAAGAGAAAAAGGAACCCCCC A A A ACCAAAAGAAGAAGAAGAAAACAAAAGGACCAGGBAAAA GGGGAAAAAAGGAAAAAAAAAGCCACAAAGCGAGGGAAAAGA G GAGAAAGGGAAACGGAAAACAGGGAAGACAAAGAAAGCAGA ACGAAAGGGGAGAAAGGGCAAAGGAAGACAGGAAAGAAAAGA AAGGAAAAAGGAACAAAAAGAAAGCAAAAAAAAGGAABCCAG C G GAA A A CAAA $A \operatorname{A} A \mathrm{~A}$ A AAGCAGAAAGGGGGGAGACAGACAAGG G GAAAAAAAAGGGAGAAAGAAAAGAAAAAGAAACACGGGGGG G A T T G A G G G G C C A G A G A A A A C C G G G G G G A A G G G G A G G G A G A A A A C A GAGCAAAAAAAAAAAGGGGGGAAAAAAAAGAAGAGAA G GAGAGAAAGAGAGGGACAGAAAAACGAAAAAGGTTGGAAAA C C A A A A C C G A A A A A A G GAAA A G TAAAA A G G GA G GAA G G G G A G AC GAA $A \operatorname{A} A G G G A G A G A C A A A A G G A A G G A A A A A G A G A A G A C C G G$ A G G G A C C C G G G G A A G G G G G A A A A A A A A A A A GAAAA A G GAAA A G GAGAGAGGAAAGAAGAAAGAAAAGGGAAAAGAAAAACAAAA

A GAGGGAAAAGAAAAGAAGGAGAAAGGGGAAGAAAGAAAAAA A G A A A A A A GAAAAGGACGAGAAAGGGAAAAAGAAAAAAAAAA A G A G A A G A A A A C G G G G G A G A A G A G A ACCAAAAA A A GAGTTAG A A A A A C A A A A A A A A A A A GCCCAGAAGAAAGAAA GAAAAAG GA A G GAA A A GACAAAGAGAACAATAGGAGGAAAAAGAAAAGAAA A A A A G G A G A A A A G G A A CACC GACAAAGAAAACAAGGC
CAAAGAGAAGAAAACGGAGGGAGAGAAAAGGAAGAAAAAAG AGGGGACCGGAAGGAGAGAGAGGAAGAAAGAAACAGAAAGAA G G A A G G G G A A G G A A A A A T A A A A G G A G G A A G A A A G G A A A G G A A A A A A A A G G G G GAGATTACCCGGAGAAGACCAAGGGAAGAACA A GAGAAAACAAAACGAGGAAAAAAAAGAAGAAAAAAAACA GA $G G A C A A G A A A A G G A A G G A A G A A G G A A A A G G G G G A A A G G A G G G$ A GAGGGGAGCAAAAAACCGGGAGGGGAAGGAAAGGAAGAAAA GAGGGGAAGGGGAGCCAAGAGGAAAAAAGGGGGGAGAGCCGA AAACGAAGGGAAAGACAAGAGAAAACGGAAAAAAAGAAAAAC A GTAAAGGAAAAAAAACAAGAGGAAGGGAAACAAGAAAAACA AACCAAACATGGAGAAAGAAGGAACCAAGGAAGGAAGGAGAA A A GACAAGGAACAAGGAGCCGATAGAAAGGGGCCAAGAGGAA A A A A A A G A A G G A A G A A GAA A A A GGGGACGGAAGAAGGGAACC A A A G A A G G A G A A A A A A A A A A A A A G A A A A G G G A C A A GAAAA G G AAACAGGAAAAAGAAAACAGAAAGAAAGGAGAAAGGGGAAAC A GACGAAAGGAGAGAAGGGGAAAGGAGAAAGAAGAAAGAGAA A A A A A GAGGACCAAGGAAAAGAGGAGAGAAAAAGAGAAGAAA
 A A G A A G A G A G A G A A A G G A A GAA A G G G G G A A A A G G A G A G A G A G G G G GAGAGGGAAACGGGACAGGAAAGAGAAAACAGGCAGAGA GAAAAAAAAACCAAAAAAGGAAAAAGAGGGAAAAAGAGA GAA $G C A G C G A G A A A A G G G A A A A A T A A A G G A G G G A A G A C C G G A G A A$ A GCCGAACAAAAGAAGAAACGACAGGAAAGAAAAAAAAAAAA AAAGGAGAGACAGACAAAAAAAGGAGGAAAAACAAGAAAAAA GA $A$ A A $\mathcal{A} G A G G A G G G A A G G G G A A A A A G G G A G A G G A G A A C A A A G$ $A C A A G G A A G G A G G G A A G G A C C C A A G G G G A A G G A A A A G G G A C A$ G GACGAGGGAAAAGAAAGATACAGGGAAACAATAAGGGGGGG
 GAAGACAGAGAGGGGGAAAAGGCAACGGGAAAGAAGAGGGCC
 AAAGGACAAGGAAAAGAAAGAAACAGCAGGAGAAAGAGAGAG AAA A A A A A A A GAAGAAAAGGAGGAAAACAGGAAAAGGGAGAG GAAGAGAGGAAGCCAAAGAGCACAAAAACAAGGGGGAAGGBA G G GAGGACAAAGGGAGGAAAACCCGAGGGGAAAGGGAACAAG AGCAAAAGAAAAGGAGAAAAAAGGAAAAAAAAACAGAGAGCC $A C A A A C G C C C A A A G G A G A A G A A G G A A A A A A G A A G G G A A A G A G$ AGCCGAAAAGAAAGGGGAACCCAGGGAAACAGAGGGGGAAAA AC GAACAGGGAAAAAAAGGGGAAGAGGAAGAAAGATCAGAAG $G G A G G A A G A C G A A G G G A C G G A G G G A C A G A G A G G A A G A A A A G B$ $A G A G A G A A G G G G G G G G A A G G A C A G C C A A G G G G G G C A A G A A B A$ A GAGGGAGGAAGAGAGAAGAGAAAAAAGAAGGGAGGGGAAAA GAAA $A$ A $A$ AAAA $A A G A G A A G G A G A A A A G C A A G G G A A G A G G G A G$ GAAAGCAGAGAGAAAGAAAGAGACGAAAGGGGAAAAAGAGAG GACCAGCAGAAAACCGAGCAGGAAAGGGAGCCGAGCGAGGAG AA G GAGAAAAGAAGGACCGAGGGGAAAGAAAAGGGGAAAACC AA GAGAAAACAAGAAGAGGGACCCAGCAAGAAGGACGA GAAA G G A A G A A G G G G A G G G G G A A G G G G A A A GAA A A A A G A A A G G G A G ACAAGGGGAAGGAGAGAAAGAAAGAGAGAGAGAAAACAGAAG GAACAGAAAAAGAGGGCAAAACAGAACAAAGAAAAGTAGAGA A G A A A A A A G GAAGAAGAAACGAAGGGAAAGAGAGAGAAAAAA AAAGGGAAAAAAAACCGGACAAAAAGGGGAGAAGAGAGAGAG A A G G G A A C A GA GAGAAAGGAAGAAAAGGAGAACAAGAGAAAA AAAGGGAGAAAAAGGAAAAAAGAGAGAAAAAAAAAGGAAC GA

A A G GAAAGACAAGGGAAAAGGAAGAGAAAGGGAGGAGGAGAA GAAGCAACAAAGGGAGAGAAAAGGAGACACAAGAGAAGAAAG A GAACCAAAGAGAAGGCAGAAAAAGGAAGGAACCGAAAAAAG G G GCGGAGAAGAGAGGAAAAACGAGGAGAGAAAGATGGTTAA A GAGGGAAGGAAGGGGAGAGAGGAGGGGTAAAGAAGAAAGAA $G C A A A G G A A C G G A G G A G G A G A G A G A G A G A A A G A A A A A A A A A G$ A A A A A A A A GAAAAGAAAAAGAGAAAAAAGCGAGAAAAAACAA ACAGAAAGAGGAAAGAAAACAAAGAAAAAAGGAAAGAAGAAA A G A A A A A CAAA A GAGGGGGGACCCCCAAAGCGAAAAGAGC GA AGAGGAACAGAGGAGAAAAGACACAGAACAAAAGAAAGACAC A A A A A A A G A A A A A A A A A A G G GAGGAAAGAAAACC G G G G GAAAA A G A G A A A G A G A A A C A GACTAAGAAGAAAAGAAAAA GA GAAAAG A GAA $A$ A A G A GAA $A$ A A A A GAAAAAGAGGAGAAAAAAACAAGAG C A A A G A A A A GA GACACAAACAACAAAAAAGAGGAAAAGAGGG G GAGGGAAAAAAGGGGGGGGAGGAGAGGGAAAGAAAGAAAGA A G G GAAAAACGAAGAAAAAGGGGAGGACCCAAAGACGGAACAA A GCCAGAACAGAGGGAAGCAGAAAAAAACAAGAGAAAGACAA AAAGGGACGAACACCAAAGAAAGAAAACGGAAAAACAAAGAC $G G A G A A A G A T A G G G A G A G A A G G G G A A A G A A G G G A A A C C A A G A$ AAAAACACGCAAAGAGGGAGAGACAAAAACAAAGGAAAAGAG G GAAGAAAAGATGGGGAAGAAAGAGAAAACAAAAACAGAAAA GAAGAAAGAGAGAAAAGACAACGGGGAAAAACGAGAAAGGAG $A C C C C C G G A A A A A A G A G A A C A A G A G A A A C C A G A A G G G G G G A A$ A G G G A A A A A C A G G G A G A GA GA G A C T A A GAGAGGAA GAGACAA $A G G G A G G A G A A G G G G G G A A G A G G G G G C C G G C A A G A G G B A G A G$ AA $A \operatorname{GGGCA} A G A G C G G A A A A G A A A G C C C C A G G A G G G G G A G G A G$ A GCAGGCCAAAAAAGGAAGGGAGAAGGACCAAGAGAAGGAGG AAGGAAGACAAGGGAAAGCCAAAAAGGAGAAAAAAGAAAAAG A A A TAAAAG A A A A GAGAAAAGAAAGGAAAGAGAAAAAAAAAA AGAAAAACGAGACCAGAGGAAAACGAAAAGGAAGAAGGAGAA A G A G A A A A A $\mathcal{A} A G G G G G A G G G G G A G G A G A A A A G T T G G A G A A A A$ G G G G G GAGAAAAGGAAGGAACCGGGAAAGAACGAGGAAGGGC C CAACCAGAGAAAAAAAGCCGATAGGATCCAAACACAAAGCG $A G A C C C A G A A A G A A A C G G A A A A A G G A G G A A G G G G A G G A G G A G$ A GACAGAGAGGGGGGGGGAAAGAAAGAAACTTAAAGGAAA GA A A G G G A C A A C G A A A A A G GAGGAAAAAACAAAGACATGGAAAA C C A GAAAGGGGGGGAGGAAAGGAAAGGAAAAGCCAAAAAGAA A A A A A GAACGAAAAAGACAGAGAGAGAGGAGAACCAAA G GAAA C CAGCAAAAAAAGAAGAAAAGACCCAGAAGGGGAAGAAACAG
 AAGGAAAGGGGGGAAGAGACGGAAGAGGCAGAGAAAAGAA GA
 AAACAAAGAGGGGAGGAAAGAAAAAAAAGGAGAGGAAGAAAG G GAGACAAAACCGACAAGGAAGAGAAAAAAAGAGGGAAAGAA AGAGCCAAAGAGACGAACCCAAACGGACAGACAAAAAAAGAG A A A G G G A A A G A A A G A C A A G A AC G GAGAGAGACAATTAGAACC AAAGAGAAACAAAAAGAGGAAGCAAACCACCCCAGGAGAACC ACAGCCAAAAAGCCGGAAAGGGGGAAAACAGGAGAAAGAGAA AA $\operatorname{A} A A G G G A A G A A G A G G A A A C C G A A A A G G A G G A A A A G G G G A G$ A A G G G G C A A A A A A GAGAGAGGAAGAAGGGGAAAAAGAAAGAG A GAACCGGGGACCAACAAAGCGAAAAAAGGAGGACGGAAGAG AAAGAAAGAAAGCCAAGGAGGGAAAGAGAAAAGGGGAAAAAA G G A A C C A A G A G A G G G A T A G G G G G A G C A G G A A G A A A A A G C A A G GAAAGAAAGGAAAAAAGAAGGAAAAGAGAATTGGGGGAAAAA GAAGCCAAAAAAACAAGAAGAAAAAAAAGGACAGGAACAGAC A A A A A A A A A A A GC GAAAAAGCACCAGAACCAGAAGGAAGGTT A G G G A A A G A A G G G A A C A GAGGGAGGACAGAAGGAGGGA G G G A
 $C \subset A A G A G G A T C A G A A G G A A G A A A A A A G G A A G A C C A G A G A G G A$

GAGGGGAAGAAAGAGAAAGGGGCAGGAAGAAGAGAGAAAAAA A GAGACAAAAAGAAAAAGAGGGAAAGTTAACGAGGAAGAGBA A GAAACAAGGACAGGAAGAAAGAAAAAGAAAGACAGGAAAAG AAAAGGAACAAGCCGAAAAAGGAGAGAACCGGAAAAGGAAAA AAAGAAAGAAGAGGAGAAAAAGGGAGGGAAAAAGAAGGAAAA A G A A A $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A C G G G G G G G G A A A G C C G G A A A$
A A AC GACGGCAAGAAGGGGAGAGAGAGAGCAAAAGAAAAAG CAAGACAGGGGGAGACAGGACAAGAGGGACGGAAAAAAAGAG A A A A C A A A T T G A G A G A A A G G G G G G A G G A A G A C A A A A A A A G A A AACCGAAAAAAAGGACAAATAGAAACAAGGAGAAAGAGAGAG A A A GAACGGGAAAGACCAGAAAGAAAAGAGAGAGAAAAAAAA A GAGAGAGAAAAAAAGAGAGAGAAAGAGAAAGAGAGAGAAAA $A G C C C C G G A A A A A A G G C A G A A C G A G A A G G G G A G G A A A G G A G G$
 A GAA $A$ A A T G GAGAGGAAGACGGAAAGGACCAAGGAAAAAGAG ACGACGCAAGAAGAGAAAAAGAGGAACGAGAAGGAACC G GAA G G GA GAGGCCCCGGCCGGCAAAGAGAAGGAAAGAAAAGAGAA AAGGAAAGGCGGAAACAAAGCAGGGGACAAAAGGGAAAAAAG AA $A$ A A A A G GAAAA A $A \operatorname{A} G G A A A A G A G G G G A A A A G G A G G A A A A A G$
 A A G G G A GAAGGAGGAAGGGGGGAAGAGGAAAGAAGAAAAAAG C GAA $A \operatorname{GAA} A G A A G G G G A G A A G A G A G G A A C C A A A A A A A G A G A A$ G GAGGACAGAAGAGAAGGAGGGCAAGACAGAAAGAGAAAGAG A GCA C G G A $G A A C A G G A T G A C G A A G G G A C A A A G A A G A A G B A A A A$ G G G G G A C A G G G GAA $A \operatorname{G} G A A A A A G G A A G A C A A G G G G G G A G A C G G$ AGAGAGAGAGAGAAGGAAAAGGAAAAAAACCCAAAGAAAGGG GGTAAAGGAAAAGGAGACAGAAGGAAGAGAGAAAAGAGAGAA A A A GACGGGAGGGAAAGAAAGAAGAACCGGGGAACCCAAAAC C C A G G A A G A A A GAA $A \operatorname{AGGGGGGGAGAGAGGGAGA} A A G A A G G G G$ A GAACCAGAGGAGGGAAGTAAAGGGAAGGACCAGAGAAAAAA A G A G A G G A A G G A G A G A A A A G A G A G G G G G A A G GCC G A A A A A A A AGAAGAGCGGGCCAAAGGGAGGGAGGCAAAAAAGAAAGAAAG A GAAA A A GAGGGAAGAAAAGAGAGCCGGGGAAAAGACAAAAA AAAAAGACACGGAAGGTTAAACAACAAGAGAGAAAAGGCAAA A GACAGAAGAAGAGAACAGGAAGGAGGGAAAAGAGAAGAGAA A G GA $\operatorname{G} G A C A A G A G G A G A G A A G G G G A G G A C C A G A G A A A G A A A G$ G GAA A A GAGGGGGGAAAGGGACAAAAAAAAAAGGAAAAAATT $C \subset A A G A A C A C A C G G A G A G C A A G A A G G A G A A A A A G A G A G A C C C$ A GAGAAAGAAAAGAGAAAAAAAAAAAAAACAAAAAAAATAAG CAACAGAAAGAGAAAGGAAGCAAAAAAGGAGGAAGGAGAAAA AGGGAACAGGAGGAAAAACCCGAAAAAAAACCAAGGCCAGGA A A A C G G G A A A G A A G G G G G G G A G A A G G A A A GAGGAGACA G G G A AAGAAGGAACCCAGGCAGATGAAGGAGAGAACAAAAAAGCAA AA G GCAGAAGCCAGAGAAAGAAAGGGAAAAGAAGAGAGGGGG A A A A A GAAACAAACGGACGAGGGAAGAAAGAGAAAGATAGCC A A G G G A G G C C T T C C G G A C A A A G A G A GAGGAAGAA G GA GA GA G A GAAAAGGGCCAAGGAAAAAAGAGGGAGAAAAAAGGAGAAAG CAAGGAAAAAAGACGAGAAGGGAGAAAAAAACAAAAAAAAAC AAAGAAGACCAAAAGGAAAAAAACCCAAGGGGGGAAAGAGAA A G A A A A A A A A G GAGAAAAGGGAAGAGGAAAACGGAGAAAACA AAAGAGAAAAAGGGAACCAGGGAGCCAAAGGAAAGAAAACCC C CAAAGAGACGGAAAGGACCGAAAAGAAGAACAAAAAAGCAA C A A A A A A A A A G G A A A A G A A G A A A C A G A G A G A A A A A A A G A A C A A GAGAGGAGAACCCAAAGAACAAAAAAAAAAAGAAAAGAGAG AAAGAGAAAAAGACAAAGAGAAAAAGACAAAAAAGGAGAAAG AAAGGGAAAAGGGGGGCCGAAACACAATGGGAAAACGAGGAA A GCCAAAAAAGGAAAAAGAGAAGGCCAGAGAAGAAGACAAAA A GACGAGACAAGAGAACAAAGGGAAGAGAAGGAAATAGGAAA $C \subset A A T T A G A A A C G A A A A G A G A A G G G G A A A A A G A A A G G G A A G G$

A A A GAAAGAAAACCAGAGAAGAGGGAAAAGAAGGAAAAGGCC A A A A GAGGCAAGGGGAGAAAGGGAAAAGCCAAAAGGACAAAA GACAAAAGGGAGAGCCAACAGACACCGGGACGAAGAAGAAAG GAAAAGGGAAAGAGAGAGGAAAAAACAAAGCAGGGAAAAAAC
 GAGAAAAGAAGGAGGAGAAAACAAAGCGAAAAAGACAAAGAG AGCGACAACCCCACGAACAAACAGCGGGAGAAACACAAGGAA ACGAGAAGAAACAGAGAAAAAAAAGGAAAGAGAGAAAAAAGA GAACAGGAAAAAAAAAAAGAGAGAAGAGACAGGGCCCCCCBA A G G GAAAAGGAGAAAGGAGAGGAGAAGGTTACGGGGCCACAA G GAAA A A GAGCAGAAAGGGGAAAGAAGAAAGGAAGGAAAGAG GAAAGGAGGAAGGGCAGAAGGGAAAAAAAAAAGGGGAGAGAG $G G A A A A A A A G A A C C G A G G A A G G A A G G A C A A G G C C G G A A A A G G$ A A A A C A A A A A A A CA GAAAGGAACCCCGAAGAAAAG GAAAAAA A GAAAGAAAGAAAAGAAGAAAAAACCGCAGACAACCAGAAGG GAGGAGAAGAAAGAAAAGAGGGGAAGAAGGAGGGAAAAAAAA A G G GAA A G G GCAACCAGGGAAAACAAGGGGAAAAAAAAAGAG A G G G A GACTTAGGAGGCAGGAAGAGACAAAACGGAGGAGAGA AAAAAGGGAAAGAAAAAAGAAAAAAACCAAAGAAAAAGAACC AAAGAAACAAGGAGGGAAAACCAGACAGAGGGGAAAAAAACC $C \subset A G A G A G G G G G G G G G A A A A A A A A G G A C A C A G A G C C G G A A G A$ AACCAAACAGGAGAAAAAAGAAGAAAAAAAAAACAAAAAAAG G G A A A GAAAACGAGAAAGAAAAAAAAAGAGACGAGAACAA GA A A A G A A A A A G A A A A G G A A A G GACAAAAAAAGAGAGCCGAAGAG A A G G G A A A A A A A A G G GAAGCAAGGAAGGGGCAAAAAAAAAAG AGACAAGAAGACGGAGAAGAAGAGAAGAAGAAAACCAAAGAG A A A A A GAAAAGAAAAGAGAAAAAAAAAAAAAAAGAAAAAGAA A A A A A A A A A A A A GACCAGAAAAAGACAAAAAGACAAAGAAAA GCAGACGGAAGGAAAGGGAGGGAAGAAGAGAACCAAGGAGAC GACAACAAGAAACCAAGGAGAAAGCAAGGAAGACCCGAAAAG G G A A G G A A A G A G A A G G A A A CAGCAAGATGAAGACAGGAAGCC GAGAAAAGAAAAGGAAGGAGAAGAGGCAAGAGCAAAAACCGG A AACAGGAACGGATTTAGATACAGAAAGAACCCAAAGBAACA G GACAAAAGGAAGAAGACGAGAGGGGAGACCAAACGAAAGAG A G G GCAAGAACAGGGGGGGAAGAGAGAACCGGAGAGAAAAAA A A A A A A A CACAAAGGAGGAAGGGAGCAAAAAGGACCAGAGAA AAAGAAGGAGGAGGAAGACACCAAAGAAGAGAGGGGAAAGGG G G G GAAAAAGAGAACCACAAAAGAGAACAACCACAGAAAGAG
 A A A G A A A G A GAGGAGGAAGGGAAGCAAAGGAAGGAAAAAGAG $A C A G C C G A A A A A A G G A A A A G C A G G G G A G C C A G G A A G A A A A A G$ A G G A G A A A G G GAGAGACAAAAGAAAAGAAACAGAGAAAGGGG AGGAATGGAGAAAGAGAAGAGGGGGGCCAGCCAAAAAAAGAA CAAAAAAAAAAAACAAAAAAAAGAAAAAGGGGAAAAAGACAG A A GAA $A$ AA $A G A A A A G A A C A G T A G G A A G G A G A G G G A G A G A G A G$
 A G GAGCAAACGAAGAAGGAAGGAGGACGAAAGAGGGGAGGAAA AA $A$ A G GCAAGGAGGAAAGAGAGAAGACAGGAGGAGCAGAAAG GAAAAAACACAGAAAGAGGAGAGGAGGGAAGAACAAAGAAAG G A A A A A A G G G A G G A A G A GAGAGAGAAGGAGAAGACCC GAGA G A GACAAAGGGGAAAAAGGCCGGGAAGACGGGAAGAAGGAGCG GAGAAAGAGAAGGGAAAGAAACAGAGAAGAAGAGAGAAAGGG G G G G A A A A A A A GAAAAAAAAAAAAAGGGAGAAGGAA GA G GAA A G GAAACGAAAGGAGAAAAAAAAAGAGAAAAAGGAGGACAAGG A G GAGAAAAAACAGTAAGAGGGAGCCGAAACCGGGACAAAAA A GAG $A \operatorname{GG} \operatorname{GA} A G G A A A G G G G G G T A A A G G A A A G G G G A A A G A A G A C$ $T \mathrm{~T} G \mathrm{G} G A \mathrm{~A} A \mathrm{~A}$ GAAGAGGAAAAGGGAGGGGAGAGAGGAACAAAG $G G C A A A A A C C A A A C G A C G C C A G A G G G A A A A G A G G A G A A A A G A$ CAAAGAGAAAGGAGCAACAGAAGGGGAAGGAAGGAAGGAAGA

GAGAACGGAAACAGAAGGAAAACACAAGAGAGAAGGGGGGAA A GAGCCAAAAAAAAAAAAGGAAAGAAAGGAAGAGACGGAGAA G G A A A A A A A A A A A G GAAGAAAAAAAGACAGAGAAGAACAAGA A GGACCAAAGAGAGCCAGAAACAAAGAAAAAAAGGGGGGGGA A A GAAA A A A GAGAGGAGGCGAGGGAGGAAGGGAAAAAAAACC A G A A A A A A C A A A A G A A A GAAAAAGAAACACACGAAGA
GCCAGAGCACAAGAAAAAAAAAAAGCAAGAAGAAGGACCGG AAGGCAAAACAGAGGGAAAAAAAAGGAAAAACAAAGCAAGAA A A A A A A A A A G A A A A G G A G G G C G A A A A A C A A A A A G TAAA CA G G A G GAGACCAAAGAAAAAAAAAAAAGGAACCGGAAAAAGGCTT $C \subset G G A A A A A A A G G G A G A C A A G A A G A A G A C G G G A A A A C C A C C C$ A G A A A G G G G G C C G A G G G A G G G G A G A C G A A G CA A A C C A G G G A G
 A G A A A A A A A A A GAACCAACCAGAAAGCCAGGAAAAGGGGGAG A A A A A A A A A GAGTA GAAGAAACGAAAGAGACAA GGGAAAAGG AA GAAACAATAGAAAGAAAGAAAGAACAAAGGCGGGGACCBAA AAAGGGCCGGAAGGAGAAAGAAAGAAAAGAAGGAAGAAAAAA GAGAAGAAAGGAGGCACAAGAAAAAAGAAGGGGGAAAAAAAG AGAAACCCAACCGAAAAAGAAGCCGAAGGGAACCAGGAAAAG A G G A A A A G A A A A A A A G G G A A A A A G G GAAGGAGAAACAGAAAA G GAAAAAATTACAAAGGGAAGGAAAGGAAGGAAAGGACAAAG AAAAAGAGGGGAGGAAGCCCAAAACAAAAGGGAACCAAGAGG AAACGAAGAAAGGAGGAAAGAGAGAAAAAAGAAAGAAAAAAG GAAGGAGAAAGAAGAGAGACAAAGAGAGAAAAAGAAAGAAGC A A A G A A A A A G A A A A A A G G A G G A G A A GGCGAAGAAGAAGACAC A A A A A A A A G G A A A GACAAA GACAGAGAAAAAGGAGGGCAGCC GGAACCCCAAAAAGAGGGAAAAGGAGAAAAAAAGAAAGAAGB A GAGGGGAGGGAAGGGAGACACAGAGGGAGAGAGAAGAGAAC TA GA GAAAAGCAGGAAGAGGAGAAAAAGAGAGAAAAAAAAAG CAAGAGAGAAGGAGAGAAAGAGAGCAAGAAAGAAAGAGAAAG AGCCGAAGAAAACACAGAAGAAGAAGAAAGAGAGAGAAAAAA AGACAGAAGAAAGAAGAAGAAAGAAGAAAACCACAAAGAAGA GAA $A$ A GAA A GA A GAAAAGAGAAAGAAACACACAAAGACAGAA A GAAAGGAAAACCAAGGAGGCAGGGAGAGACAGGAAGGAGAA GAAGCAACAGCAAGAGGAAAACAGAAAAAAAGAAGGAACAAA A A A A GCAGAAAGGGAAAAAAAGAAAAACGAAAGGAGGATACC G GACAGACAGAAAAGGAAGAGGCCAAAGAAAACCGACGAAAC $C \subset A A A G C C A A G G A A A G A G A G C C A A A G A G A G A A A A A G A A A A A G$ GAAGGGAGAGAGACAAGGAGAGAGGGGGGAGAGAAAGGTTAA AAAGAAAACAAGAGCCAGAGCCAGAGGGAAAGAAAACAAAAG GGGAAAACAGGAAGAAAGAGAAGGCCCCAAAAAAGGAAAAAG ACAACCAGGAGAAGAGAGAGAGAGAAAAGAGGGGGGABAACC A GAGCAGAAGAGACCAAGAACCCCAAGGAAAGGAAGGGAGCA C C G G A A A G G G A GAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{G} C A A G A G A A A A A G A C G G A A G G A G$ ACAAAGGAGGAGAGAGACAGAAGAGGAGACGGAGAGAAAGAA A A GAAAAAAGAAAGGAGGAGGAGGAGAGGGAGAAAAAAAAAA G G G GAGACCCCCGGGGACGAGGAGAAGGAGGAGGAGAAAGAG GAACGGCAACGAGGGAAGGGCAGGAAAGAGGGGGAAAGAAGG G G GAAGCCAAGAGAAATAAGAACACACCAGAGAGAGAAAAGA A G GA $\operatorname{l}$ A $\operatorname{A} G A A G G A A G G A A G A A A A G A G G A G G G G G G C A A A G A A C$

 A A A G G A A G GAGCGGAGAAAGGAGGGGGAAGAAAAAAA GAGCC ACCGAGGGAGAGCCAACCAGGAAGAAGATTAGAAGGGGAGAA G G G GAA A ACCGGAGACAAGAAGAAAAGCAAAAAGAGAAGGCA AA GAAGAAGGAGAGACGGAAAAAGGACAAGGAAGAAAAAAAA $G C A G A G C C G A A G C G G G A G A A G A G A C C G G G G A G A A G A G A A G A A$ G A A G A G GAGGCC GAAAAGAGACAGAGAATTAAGAACAA G G GAA GAGGACAGCCGAGGAACCACAGGGAGGAGGGAAAGGAGAAAG

ACAAAACCGAAGAGAGAAAAAAAAGGGGAAGGAAAGCCACAC AAACCAAGCAAGGAGAAAAAAGAGACAAACGAAAAAAGAAAG GAGCAGAAAGAAAAAGAGAGCCAAAGAAGGCCGGAACCGGGG A G GAA A G G G GAGAGACAGGAAGAAACCAAAACAAAGAGACAG A GAAAAAGAGAGAGAGAGAAAGAGGGAGACAGAAGGACAGAG GCGAAAACGAGGAAGACACCAGGGAGGACCAACAGAAAAGEG
 AGGAAAGAAAAGGAGGAAAGACAAAGGGACGAAGAGGGAAAG A A G A A A G G A A A A A A CAGAAAGGCCAGGGGAAAGAAAA GAGAG AAGGGATTAGAAGAGGGGAAAGAGAAAACGGAAGAGACAAAA A GAGGGAGAGAAAACCAAAGCAAGAAAGAAAAACAAAGAAGA C A G A G A A A GA G A G G A A A A G G C A G G G A A GAAAAAAA A A G A G G A A GAGCCGGAAGGAAAAGAAAAAGGAAAAAAAGAAGAGGAGAA
 GAAGGGAAGGGGGGAAGGGGCCACACAAAGGAAGAGAAACAA A GAGGGGAGAAAAGAAAGAAAGAGGAAAAGGAAAAAGAAGAA A A G GAAAGAAAGCAGAAGAGCCACAAAACAGAGAAAAGAGAA GACAGAAAAGGACAAAAGGGGGGAAAAGAAAAGAAAAGAGAA A GAACCCAGGAGAGAGAAGAAAAAAAAAGGAGAGAACAGACC A A A A G A A G A A A A A A A G G A A A A G A A A A A GAGGACAAAAAACAG G GAAGGAACCGGGGAAGAAGGAGAAACCGAAAGAGAAGAGGG G G G GCA C G G A A A G G G G A A A A A A G A A G G GAGAGGGACAA G G G A A GAGAAGGACAAAAAAGAAGAAGAAAAGGAAGCCAAGACAAG
 GAGAACAGGAACAGACAGAAAGGAAGCAAAGAAAAAAGAGAA AAAAAAAAAAGGCACCGGAGCCAGGAAAAAAGACAGAAGGGG CAA A A GAAAAGGGGGGAGGGAACCGGAGGGAAACACGGAGAG A A A A A GAAAAAGGAGAGAGGAAAAAACAAGCAAAAGAAAAGG A A A A A GAGAGAAAGAAGGGGAGAGAAGGACCAGGGGAGAACC GAAGGAAGAAAGGGGAAGAAAAAAAGGGGAAAGAAACCAA GA GAAAGAGGAGATAGGGAAGGAAAAAAAGAGAAGGAAGAGCAC CACAAGGGAGGACCGAAGAGAAAAAAGAGACAAAGAAAAAAG A GAGGAAGAGAAAAGGGAAAAACCGGAGGGAGGAAGAGAAAG
 A GAAAGACAGAAAAAGCCGGAAAAAGAGAACAAAACAGAGAA A A A A A A A A A A A GAA $A \operatorname{G} \operatorname{A} A A A G A A A A A G A G G G A G A A G G G G G G A G$ A A A A A A A A A GAAAAACAAGGGGGGAAAGAAACAAACGAAAAG AAAAGGCCAGAGCCGGGGAAAAGGGAAAAGGGGAAGACAAGA AAACCGAGAGAGAAAACAGAAAAGGACACCGGAACCACAGAA ACCAAAGAAGAGAAAAAAAGGAGGAGAGGAGAAGAAAAAGAA A GAGAGAGAAGGAGAAGAAGACAGAAAGAAAAGAA GAGGGGG A G G A A A G G G G A G G A A G G A G A A G A GAAA A A A G GAAAAAAA A A A AAAACCCCGGACAGAGGGAAGGGGCCAAATAGGGAAAGAAAG A A G G G GAA $A \operatorname{GA} A A A A C A G G A A A A A A A A A G G G G G G A G A G G G A C$ AACAAGACGAAGGAGAAGGAGAAAGGAAACGAGGAAGAGGCA A A A G G A A A A A A A A G GAGACCAAGCACACCCAAAAAAAAAGAA A A G A A A A G A A G G G G A A A GAGCCGGAAAAGGTAACA G GA G G C C A A G G G G GAACCCGGGGGGCAGAGGAGAGATAGGACAAGAAAA A GAGAAACAGGGGAAGAAAAGAAAAGCCGAGGAGAAGGAGAG AGAGCCGCAGACAGACAGAAAAGAGGGAGGAAAAAGACAAAG AAAGAAAAAAGAAGCAAAAAGGAGAGCAGGGAAGAAAACAAA A A A A A A A CAGAGAGAGAGGGAAAAAAAGGAAGAAAAAAAGAA CAAGAAGGGGGGCAAAAGAGAGAAGAAAAGAAACAAAGAGAG GAAAAGAAAGAAAGGAAAAAAAAGGAAGCCCCAAAGAACAAG A GAAAAAGCAGAAAAAAGAACAAGAACACCAGAGAGAGAGAG GAAAAGAAAGAGAAAAAGAGAAAAAGAGAGAGAGACAGAAAG A GAAAGAGAAAGCCGGAGAAAGAGAGAGACACGAGAGAGAAG
 AAAGGACCCCGGAAAGGGAAAAGGAAAAGAAGGAAGAGAAAG

ACGGAAAGGGAGGACAGGGGCCAAAAAGCCACAACCAAACAA A GAA A G G A A A G A A A A A A GCGGGAAAAAAAAAGAAAAGGAACA AAACCCGGCCAAGACAAAAAGAAGACAGGAGAAGAGATAGAG GAA A A A A A A A A GAGGGAGAAAAAGGAGGAAGGAAAGGAACAG A GAAAGAAAGAACAAAAGAGAACCAAAATTAAGGAGAGAAAA G GAGCCGGGGAAAGAAGGACAGGGAAGGGGGGAAAAA
A G GAA A G G A A GACCAAAAAACGAAGAAAGAAAAGGGGGAAG $G G A C A G C C A A C C G G A G A C A C A C G G G G G G A A A G G G A A C C A A A G$ G A A A A G A G A A G G G G A A G G C C A G T T A G A G A A A G G G A G A G A C A G AAGGTTAGAAGAGAAAAAAACAGAGCGGAAGGGGAGAAGGGA A GAAAGAGATAGGGAAAAAGAGGACGGGGGGGGGGAAACAGA A GAGCCAGGGGAAAGAGGATGGGGAGGCAAGCGGAAAGAGAA A A G A A C G A C A A A A A A A A A G GAAAA A A G G G G G GAA G G G GAAAA AAAGGGGACAAGAAGGAGAGGGAGAGGACAGAGGAAGAGAAA A G GAGAGAGGGGAGAGAAAGAGAGACGGAGAAGAAAAAAGAA GAAAAACCAGGAAAAGAGAACAGGAAGAGAGAAAAAAAAAAG A GAACCGGAGAAAGGGAGAAGAAGGAAAGGAAAAAGAGAAAG A A A A A T A A G G A A A A A A T TA A G GAGGGAGGGAAAAAAA GAA G G TTCCAGGAAAAGAAACGGCAACGGAGGACAGGAAAGGACCAG AAAGAAGGAAAGGAAGAAAAGGACAGAAGGCAGAAAGGAAAA GACGCAGGAAAATAGAAGAAAGGGGGGGAAAAGAGAAGTTCG1 AAAGACGAAGAGAGAGACAGAAAAGAAAAAATAAAGAGAGGG G GACGGGGGCAGAAAGAGGAAAAGGGGGAGGGACAAGA GAAA CCGGAGAGAAACAGGGAGAGAGAGGGAGCAGAGGGGGGAAAA C GAACCGAAAACGAGAAAAGGGAGAAAAACACAAAGAGAAGA ACAAAGAAAGAGGAAGACAGAAAGAGAACGAAACGAAGACAA $A C C C A G A G G G A A A A G G A A A A A C G A A G A A A G A G A G A A G G A A A A$ A A GAAAGAAGAGCAGAACAAGCTAGCGAAAGGGAAAACAAAG AACGAGGAAGGACCAACCGGAGAAAGCCCCCAGAAGGAAACC A GAGAAAGAGAGCCAGACACAAAAACAGAAAGACAAAAAAAG AAAGAGGGAAGAACAACCAAAGAAAAAAAAAAAAAAAAACCA A GAAGAAGAGACACGGAGACAAAAAGAAAAAGAGAAAACAAC A GAAAGAAAGAGGGAAGGAAAACCGGAGGGAAAGGGGAGAAA
 A A A G A A A CAGGAAGAAAGGACGAAGAAGGAGAAAAAAAAACA A A A A G A A A T T C A A G G A A A GACAAAAAGAAGAGAAAAAA GAA G GAAAAGGGAAAAAGGGAAAACCAAACAGGCAAACACAAGGAG A A GAA AAGCAATGAGGAAAAAAAGGGACCAGGAGAGAGCAAA A A GAGAAAAACCAAAAAAAGAGAAAAAGAAAACGAAAGAGAA A A A A A GACAAA GAAAAGAAAACACAAAGAAAAAGAGAAAA GA AGAGAAAGAAAAAAAAAGCACCGAGAAACCAAGGAGAGGGAA ACAGAGAGCAAGAAAAGGAGGAGAAGAAAACCAACCAAAGAG A GAGAGACGGAGAGAGGCGGAGAAAAGAAGGAGAAGAAACAG A A TAACGGACGAAGAGAGGAGGACGGAGAAAAAGAACAAGAA A G G GAAAAGGAGAGAGAAAAAAGAGAAGACCCAAAGAGAAAA G G G GAGAACCAAAAAATAAAAAGAGAACAGACCAAAGGAAAA A A GACAGAAGAAAAGACACCGGAGAGGGAGAGAGAAAAGAGA G GAGAGCAGGAGAGAAAGAGAGAAGGGGAAAAACAAAGGGGA GAAAGAACAGCCGGAGAGACAGAGGAGAGGGGAGAGAGAAGA GAGAGGAGACAGAGAAAAAAAGAAAAACAAAAAGGGAAGGGA G G G G G A G G A A G G G A GAAAAGAAGGAAGGCCACAAGAAAAAAA $G G C A A C G G A G A C A G A A G A G A G A G A A A A A A C A A A C G G C G A A G A$ G G A A G A G G A A A GAGAGCCGGCCGACAGGGAAAAAAAGGAAGA AAAACCAGGGATAGAGGAAGGCAGGGGAAGCAAAAAGAAAAG G G G A A A A G A C G A G A G G A GAGCACCGGCCGGAGAAA GAAAG GA A A A G G A A G A A G A A G A CA GAGAGACGAGGCAAGACAAAGAGCC G GAGAGAGAGGAAAAAAAGAAGAGACAAAAAGAAACAGAGAA CAAGGGAAGGAAAACCAAAGGACCGACCACAAGAAABAAAGAG ACAGAAAGAAAGGGCCAGGCAGAGAGGAAAGAAGAGAAAGAA

G GAAAGGAGAAAAGGGAACCACGGAACAAGGACCAAGAAAAA A A G GACAGATGGACAGAAGAACACAACCAGAAGGAAACBGAG $G G A G A A G G G G A G A C A G G G G G G A G G G A A A A G G G A C A G A A A G A G$ A GAAAAGGGGAACGAAAGACAGAAGGAAAAGGGGAAAACAAA

 A A A A A A A G A A A A A A A GACCCGAAGGAAGCCGAGAAAGACGCC A A A A A A A A A A GAAGAAGAGGACAGGAGAGAAGACAAAGAAAC A G A A A A A A G G A A G G G G A G G A A G C C A A A A A G G G A GA GAAAA G G AGGAAGAAAGACGAAAGAAAAAGAGGAGGGAGAAGAACGAAC GAAAA AAAGATAAAAGGGAGTAAAAAAGAGGGGAACAAAAAG CAA GAAAAAAAAAAAAAGAGAGACCCACAGGAAAAGGAAGGG A A A A G G G G G G A G G A A G G G A A G G G A GAGAAGAGAAAAAAAAA A $A$ G GAA $A \operatorname{GA} A A C G A G C A G G A G A A A C C G G G A G G A A G G A A A G A C B A$ AAGGAAAAAAAGAAAAAAAGAGAGCCAAAAAAGGAGCCAACAC
 A GAGCAAGAACAAAAGGACGAAGAAGAGAAAAGAAGAAAA GA AACAAGCCAAACCCAGGGAAAGAAAGGAAGAGAGAGGAAGCC AGAGAAAGAAACAAGGGGGAAACAGAGAGAGAAAAGAAGAGA A A A A A A A A A A ACA GAACAAGGGCAAGGGAGAAAAAGACAAAC A GAAAGGAAAAACAGACACCGAGAGAGGAACCAAAGAAAGCG A A G GAAAGAGACAAGGAGAGAGAGAGGGGGGGAGCCGAAAGA GACAACAGGCAGAAAGAAGAAGCCAGTTGAAAAAGAAAAAAG G G A A A A C C GAGGAGCAAGAAAAAAAAAAGGGGAGGAAAAGCC GAGAACAGACAAGGACAAGGGAGGAAAAAGGACCAGGGAAGG A G G GAGCAAGAAACCCAGGGGCAAGGAGAGAGCCAGAAAGAA G GAAAAAGACAGAAGGACGAAGGGAGAGCCGGAGAAAAAAAA CAGAGAAAAAAGCAACAGAAAGAACCGCGGGAGAAAAGAAAA A A A G A A G A A GAGAAAGGGGAAAAAGAGGAAGGGGCCCAAAAA AAAGGGGCCAACAAAAGGGAAGAAAGGGAAAAGGGGAGAGAG A A A A A GCA A G G GAGAAAAAAAAGGGGGAACCGAATGAGACC ACGAGGAGAAGGACGGAAAGAAAACGGACCAGAAAGCCGGGG A A A A C A A A A CA A GAAAAAAGAGGCAGGAGGCCCCCACCGGGAA
 A A A A A A GAGGGGGAAAAAGAACACAGAAAAAAACAGAAAACC
 A A G GAGAGCAAGAGGAACAGTTCCAAGAAGAAGAGAAGAGGG A GAGAGGAAAGAGGCCAGAGACCCAGGAGGCAGAGAAGAGCA

 G G G GAAGGGAAAAACCAGAAGGAGAAAAAGAAGGAGAGAAAA A A A A A GAAGGAAAGAAAACCGAAGGGAAAAACAAAGAAGGAA GACATAGCAAAAACAGAAGGGGAGGGGGCCGGAAAGAAACAG AACCAACCAAAAGGAACCGGAAAAAAGGGGGGAGGGAAAAAG C GCCGGACAACCAGAAAGGGAGGAAAGGAGAAAAAAAAGGCC
 $G G A A A G A A A G A G G G A G A A G A G A G G A A G G A A A A C C G G A A A G G A$ C CAAAGAGTAAAAGAGAAACGGAAAAAAACAGACGGAGAGAG AAAGAGGGAAACAGGGAGAGAGAGAGGAAAAAAATTAAACBG
 CAGAAGGGGGGGGGAAAGAGGGACAACAAACGAGAGCCAGAA A GAGCAAGGGAAAGACGGCAGGGAAGGAACGAAGAACAAA GA A GACAGGAAGCCAGGGGGAAAAGAGGAACAAAGGGGGGAGAA A CAGAAGAAGAACAGGCGAAGGGGAACCGAAGAAAAAGAGAA A GAA A A A G G G G GAAAGGAGAAGGGAGAACAAGAAAGAAGGAG
 G G A A A GAAACCCAAAGAAAGAGGAGGGGAGAAAAAAAGTTAG
 GAAAAACCACAAAGAGGGCAAAGCAAAAAGGAGGGAAGAGGG

AAAAAGGAAAAGCCAAAAGAGAACCCGGGAGAACAGCCBGAA $A G G A A G G A A A G G G A A A G A A G G G A G G G C C G A A G G A A G A A A G A G$ A GAGAGGAAAAAAGACAGAGAGACAGGAACAAAGAAAAGGGG A A G G G GAGGAAACCGGGGGGAGAAAAAAGAAGGGGGCACAAA G G G G GA T TAAAAAAAGAAAGAGACAAAAAAAAAAAGAGAGAG A A A A A A A G A G A G A A A G A A GACCGGAAGAAAGGGGACA
GACAAAGAGGAAGCCAAAAAAGGAAAGAAAACCCCAACAAA GCAAACAAAGAGGATAAAACAGAGAATAAAAAAAGAAGAGAA A G A A A A A A G A A C A G A G A A C CAAA A A A A A A G GA GA GAAC GAA G $C C G A G G A A A G C C G A C C C A G G G A G G G A G A G A A A G A G G G A A A G A$ A G GAGGGGCAGAGGGGAAAGGAAAGGGGACAAAGAAAAGAGA GAGAAAAAGGAACCGGAAAAGGACAGAACCGAAGAGAAAGAA A GAGAAAAAAGGAAGGGAGAAAGAGAAAGACCAGAAAAGAAG GAAGACAAAAGAGGGAAAAAAGGAAAGAAGAGGGGACGACAA GAAGGAGGAGAACGAGGAAAAGAAGAAAAAAGAAGGGGCAAA G GAGAGAGAAGAAGAAAAGGACAAAAAAAAAACCAAAAAGAA AA A GAAAGAGGGAGAGCAAAAAAGAGCAGAAAAGAACAAAAG A A A G A GAGGAGAAGAGGAGAAAGAGAGACAACGAAAAAAGAC CAAAGAAAAAAAGGAGAAACGAAACAAGAGAGAGCAAGAAGA A G A A A GAAAAAGAACCCCAGAAAAAAAGGGAAAGGGGGCAAA A A G GAAAAAGAGAGAAACAGAGAGAGAGAACGACAGAAAAAA A A GAAAAGAGGAGCAGAGCAAGAAGAAAAGAGGAAGAAGGGA A G A A A A ACAACACAAAAGAGCGAAAAGGGGAAAAAGAGAAAA A A A G T A A G A G A G G A G G G A A G G A A A GAGGAC GACC G GA G G A A G ACAGAAAAAGAAAAAGAGAAAAGAAGAGCAGAGCAAAGGGGA GAAGGGAAAAGGGGGAACAAAGAGAGAAAGAAAGGGAAA GAA A GAAAAAGACAAGAGGGGAGACAGAGAGAGGAAGCACAGAAA A C A A A A A G A G A G A G A G GAC G CA $A G G G G G G C C G G G G G A G A A A A$
 A A A A A A A A A A A GAACCGAACACGAAGAGAGAAACGAAAAAAG A G A A A C A A A A A A A A A G A A A A A G A C G A A A A A A GAAAAA A A G G G ACGAAGAGAACACCGGCAGAACGAGGCCAAAAAAAGGGTTGG G G GAGGACAGAGCCAAGGAAAAGGCCAAAAGAGACCGGGGGG A A A C G A G A A G G A G G GAGGAAGAGAAAACGAAAGAAGAAAGAG GAGAAGACGAAAGGAAGGAGGGAGAAACAGAAACAAGGAGAG G G G A A GCCAAGGAAAGAAAAAGGGGAACAAAAAGAGAGAAAG AGAACCCCAGAGAACCGGGGAGGGAAGAACGAACAAAAAAAA GAAACACCGGACACAGAGAAAGGGAGCCAGACAAAAGGAAAC A ACCGAGAAGGAAAACGGAGACGAGAGAACAGGAAAACAGAA
 A G GAAGAGGAAGAAAAATGGAGAGAAGAAAAGGAAGCAAAAG
 C CAGAGGAAAAGAGAGAGAAAAAGAGAAAGGAAAAAAGAAAA GACAGAAGAGACAGAGAAGGAATTAACCGGGGACGAAAAGAG A GAGGAAAGGAGAGAAAGAGAAAGAACAAGGAAAAGAACAAA A A A G G G G G A A G G C A A CAAA A $A \operatorname{AGGGAAGGGGCCAGCCGAAGGC}$ A A A G A CGGCCAAAAACGAAGAAAAAGGGAAAGAGAAGAAGAG C CAA G GAAAAAAAAAAAGGAAGAGACAAGGAAAAACAAAAAG A ACCAGAGAAAAAAGAGGGAAAAAGAAGAAAGGGGGCCAAAA
 G G GAACGCGCGGAAAACCAGAGAGAAGGAGAGGGAGAAGAAA $A C A A A G G G A A A A G G A C G G A A A C A G G G A G A A A G C G A G G A A A A G$
 A GAAGGGGGAAAACGAAGGAGGGGAAGGGGGGGGACCAAGCC AA G GAAAGAGAAAAAGAGAAGAAAAGGGGGGAAACCGBCABAA A A A A A A G A GAAA A GCCGGAAAGAGGGAAAGAAAAA GTA GAAAG A GAGAAAGAGAAGCGAAGAGAGAGAAAAAGAAGGGGGAAGAG G GCAA GCAAGAAGAGAAAGGGGAAAAAAAAGGAGGAGAAAAA G GAAGGAAAAAGCCAAAAAAGGGAAGAGGACAAAGAGGGGCG

G GAAAAAAGGAAAAGGGGGGGCCGGAGAAGGAAACGGAGCA C CAGAGAACAAAAAGGGGGGCAAGAGAGAGGAGAGAAACAAA $G G A A G A A A C C G G G A G A G A A G G A G A A A A A G A G G G G G G A C A A A A$ G G G G GAAAAAAAGGGAGGGGAAAAACAAAAAGAGAAGAAAAA A G G GAGGGAAACACAGCCGGCAGGAAGAAAACGGACAAAGAG
 AAAGGGAGAGAGAGAAGGGGAGAGAGGAAAGAAGGAAAAAAG $G G G A C A G A A A C C G G G G A G A G A A G G A A A G A G A C A A A G A G A G A G$ AAAAAACCGGGGAAAAAGAAAGACGGAAAGAAAGGAAGAAAA AAAAGAAAGGAGGGAAGGAAAAGAAAACAAGAAAAAAAAAGG A GAAA $A$ A $\operatorname{A} A \mathrm{~A}$ A GAAAACCACACAAAAAAGAAAAGACAAACAA GAAAAGAAAGAGAGCCGAAGAAACAGAGAGAGAGAAAAGGGG AAAGACGCAAGATTAGAAAGCACAAAAAAGAGGAGAGAGAAA A A A A A GAGAAAGGGACGCGGAAACGGAAAAAAAGAAAAAAAA AA GAAGAGACAGAAGGACAGCCGGAAAAGAGAAAAAGAAGAC AA $A G A G A A G G C C G G A A G A G G A C A A G A A G A G A A A G G A A G A G A A$ GAAAAGACAGAAAGAGAGGGAGGGAAAGGCAAAGAAACAGAG G GAGAGAGGGAAAAAAAAGAAGAGACGGAGAGAGCCACACAC GAAGCCACACAAAAGACGCACAAAGAAAAGAGAAAAAGAGAG C C A A A C A G A CAAAAGGGAGGACGGAAGGGAGGCCAGAAAGAC TAAGGAAGGAACGGCCAAAAAAGAAAGAAGAAAGAAAAAGAG A A A A A A A A A CA $A G G G C A G G A A A A A A A G G G G A G A G A G A G A G A A$ A GAGGAGGAAGAAAGAAAAGCCGAAGGGAGTAAAAGAAAAGA A G G G A A A A A A A A A G A G GAA $A$ GAAAGAGAGAAAC GAAAAC GATA ACAGAGAAGAAGGAAAGAAGAGAAAGAAAAAAGACAAAAGAG A G G A T TCCAGAAAAAAAAAACCCCAAGGGGAAGGAACACACC A GAAAAAAGGAACCAAAGAAAAAGATCCGAAAAAGGCCAAAG C A A A A A A A A G A A A GACAGAAAAAACAAGAGAAAGAGAGAGAA GAACGGAAAAGAAGGGACAAGGAAAGCAACGGAAAAAGAAGG G G GAGGGGCAAGAGAAGGGCCCAAGGGAAAAAAAAGAAAAAA GAGGAGAGAGAGGAAGGAAAGGAAAGAAGAACBAAAGGEGAA A GAAGAAAAGAAAATTAGCCAGAAAAAAAAGAAGGGAACCCC A GCCAGAAGAGAAGAGGACAAGAAGGGGGAAAAGAGGGAGAC G G GA GA A GAAAAGGAAAAGGCCGGAAAATTAGAGGAACGGAA A G G A A A A A A A A GTTACAAGAGAGGAAGGAGAAAAAAA GAAAA A G A G A G A T A A G A A A A G A G A CAAACAAA GAAAAAAA GAAAA GA ATAAAAAGGAATAACCAGACAAAAGGGGGGAGGGAGAAAAGA GAAAAGAGAGAAAAAAGAAAGGAACAAAAGAAAGAGAGAA GA AAAAGGGGCCGGGGGAAAGAAGAACCGGAAGGGGGAGAAAAC G GAAAGAAGAGAAGGGAGAAAGACGGAGAGAGAGGAAGAAAA AAAAGGGGAGCCAGAAAAAGGCAGAAACAGAGAAGAGGAGAG GAAAAGAGAAAGGAAGAAAGAGGAAGAGAAAGAAACAGAGAA A A A A A GAAAAAAAAAAAGAGAAAGACAGAAGGAAAGGAAGAA A GAGAGAGAGGACAAAGAAGAGGGAGAGACAGACAGAACAAG AAAGACCACAACCGAAAGAGGGAGACAAAAAAGGAAGAAAAG G GAGGAAGGGAGCGGAACAAAACAAGAGAGAGGGGACAAAAC GACAGAACAGAAGAAGAGACAGGGAAGGAAGAAGGGGAAA GA
 AAAGGAGAACGGAAAAAGAAGAAGAGAAGGACAAAGAAAAGG A GAGCAGAGGGAAAAGAAACACAAAGGAGAAAAGAAGAGGAG AAACAGAACCGAAAGGAAACACAAGAGAAAAGAGAAGAAAAG GAAAAAGAGGGAAACGGGGGGGGGAGGAAAAAGAAAAAAAAA A GACGAGAAGAGAAGGAAGAAAGGAGGAGAGGCCAAGAACAA $C C G G C C A C A A G A A G G G G G G G G G A G A G C C A G A G G A A G G G A A C C$ G G GACCAGAGAAAAAAAGAAAGAAAGGGAAACAGACAAAAAA A A A A GAGGGAAGGGGGAGAGACAGGGACAGGAAAGGAAAGAG AAAGGGAGAACCAAAAAAAGAAAAAGAAGGAAGGAGGAAGAC A GCAAA A A A GAAAAGGAAAAGGCAGGAACAGAGAA GACCGGG CAAAAAAAGGGGGGAGAGAAAGGGAAGGCAAGACAGAGAAAA

A G GAA A A G GAAAAAGAGAAAACGGCCAGCCAAAAGGACAGCC G G A A A A A A A G G G G G GAA $A \operatorname{GAAA} \operatorname{A} A G G G A G A G A G A A A A G G A G A G$ GACAAAAAAAAGCCAAGGTAGGGGAGAGAAAGAGAAAGAAGG A G G G G GAGAAA $A$ AAAAACAAAGGAAAAACAGAGAGAAAGGAGG A GAGAAGGAAAAGGGGGGAAGGGAGAGAAGGGAGAGAGAAAC A A G G A A A A $\mathcal{A} G A G G G G G C C A A A A A A A A G G A C A G G G G G C$
AGGAGGAAACAAAGACAGAAGGAAGAGCCAACCAGAAGAAA CACCGGAGAGAAAGGCAACAAGGAAAAAAAAGAAAAAGAGGA A A G A A GACAGAAAGGAAAAGAGAGAGAGAACAAAAGAAAA GA AAGGGGGGGAAGAGCAAGGAAGAGAGGAAAGGGGGAAAAAAA A G GAGGAGCCACCCGAGGCAAGAGGAGGCCAGGAAGGAGAAG A A G A A C G G A G G A A A A A A G G G G G A G A A A C G A A GA GAAAAAC $A$ A A A G G A G G A A GACGGAGAGAGAGAGAGAGGAAAA GA GAGAG GA C C A A G A A G G G A C A G A A A GA GAGACGGGGGAGAA T T TA G G G A A GAAGGAGGAGAACCCGAAAGGGAGAAGGGGAAGAAAAAAAAG G G GACCAACCAAGAAGGGAGAGCCGGGACCCCGGAAAGAAAA A A A A A A G A A GA GAA A GAA $A$ A A G GA GAGGAA GAA GAA G G G G G A T G G G G A A A C G G G G G A C G A G G G A G A A A G G G A A A A G G G A G G G G A G $A C A G G A G G A A A G G A G G A G A G A A A A G G G A A C G C A A A G A G A G A G$ A GACAAAGGGAAAACCGGACAGAGGAAGAAAGAAAAGGAGAA $C \subset A G G A C A G A A G A C G G A C A A G C A G G G A A A A A G G G G A A G A A G A$ A G G GAAAACCGGGGGGAAAAAAAAAGAGAGGAGAAGAAAAAG A A A A G A A A A G G GAGGGGGGGAGGAAAGGAGGGAAA GAAAAAA A G G GCAA GCAA $\mathcal{A} A A A G A G A A A A G G G A A A A A C G G G G A A G G G G A G$
 A GAGAGAGACAAAGGCAAAGGAGAGGAAACGAAGAGAAGGAA A GACCAAAAGAAAAAGAGAAAGGGAGAAGGGGAGGGAGAAGA A A A A A A A A A A A GA $A$ G A GAGAAAGGGAGGGCCAGAAGAGACCAA A A G G A A G G G G G A A G G A G G A GAGGAGAAGAGGGAGAAAAAGAG AGAAAGAGAGAAAAGAAAGAGGAAGAAGAAACAGACAAAGGG A GCA G G C A G G G A C C A G A A A A A G G A A G A G A C G G C A A A G G A G A G A GAGACAGACGGAGCAGGAAGAAGGGGACAAAAGGCGAATCC A GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A A A A G A A G G G A A T A A G A A G G G A G A G A A A C$ T T C C A A A A A A A GAAA GA G GAAAAAACAAAAAAAA G GA GAA GA GAAACCGGGGCCGGAGAACCAGGAAGAGGGACAAGGAGAAAG A G A A A G G A G G C A A A A G A G A A G G G A A A G GAGAAAAAACCACAA $C \subset C C A G A G A G G G G G C A A G A A G C G G A A G A A G A A A A A G A A G G A G$ GAGAGAGAAGAGAGGAAGAGAGTAAGACAGAAGGAGGAGAAA A A A G A A A C CA G GAA AGCAAGAGAGCACCAAAGGGACAAAC GA ACAAAAAAAAAAAACAGAAGAAGGAAAAGAAGGAAGAAACAG $A C G G G A A G A A A A A A G G G A G G G G C C G C G G A G G A A G A A G A G G A G$ GAAGGGAAGGAGAGGAAAAAAGAAGGGGGGGACCAAAGAGAG A G GAAACAAAAGGAGAAAAAAAAAGGAGAAAGGAAGGGAAA G $C \subset A A A A G G G A A C C C G G A A A A C C G A T A A G A A A A A A A C G G G A G G$ A G G GAGAAAGAGAGAGAAGGAAAAGGACGACCACAAGGGGGG A GAG G A A A A A GAGGGCCAGAAGGAAGGAGAGAAAGGAGAAAA GAAAGACCAACCAAAGAAGGGGAAGGAGGAAAGGAGAAAAAA A A A A G G GAGGGAAGGGGAGCAGGAGGAAGGAAAAAGAGAAAA C C GAGGGACCGAAGCAGACCGGAAAAGAAACGCGGGGAAAAG A A A A A A A A A G A CAA $A \operatorname{G} G A A A G G A A G A G C C G G G A A A A A G A A G G A$ A G A A A GAA A G G GAA $A \operatorname{AGGGAGAAGAGGGGAAAAGAAGAAAGGG}$ GGGAGAGACAAGAGAGAAAAAAGGAAAACCGGAGAGAAAGAG G A A C A A A A A A A A G G A A G G A A G G A A A G A C G G A A A A A A C G G G C A AGGAGGAAAGACAACCCCAAAAGGAGAGAAAAAAGGAAGGAA A A A A A GAA A GAGGGAAAGGGGGAAGAAGAAAGCCAGAAGAAG A G A A G G G G A A A GAA $A \operatorname{GGGAAAAGAGGGAGGGAGTTAAAGCCAC}$ A GACAAAAAGACGAAAAGGAAGAAAAAGAAAAAAAGAAAGGG
 AGAGAGACAAGGACAGGACAAGAAGGGACAGAAGAGGAAAAG

G GAAGGAGACAAAAAGAGAGAAAGAGCAAGACAGCCCCCGAG
 G G GAACGGGAGAAGGAAGAAATAAAAAAAGAGAGAGAGAGA G GAAGAAAGAAACGAGGAGAAAGAAGAAAAGCAAAAAACAAGG A GAAACAAACAAAGGAAAAGGGCCGAAACCAAAGACACAGAA CAGGAAAGAGGAAGAGAAAGAGAGAGAAAAAAAACCAGACAA A A A A G G G G GAGGGGAGGGAGGAAAGAAAAGCCAAGGCAAAGG C G GAA A A A G GAGAGAACGCCAAAGGGAGAGGGCCCCACAAGA A G G GCAAA A A G GACAACAAAAGGGATAGAGGAAGAGAACACC AGCCAGAAACGGAAGGGGAAAGGGAGAAAGAAAGAGAGAAAG A GACAAAGAAAAAGAAAGAGAAACAAAAAGGAAAAGACAAAA A GAGCCAGGGGAAACCGAACGAACGGAGGAGCGAAGCCGGAG A GAAAGGGAAGAGAAGGAAAAGAGCAAGGGAAAAAAGACAAG A GAA $A \operatorname{GAAAAACAGGAAGAAGAAAAGGATACAGGGACACAGAA}$ GGAGAAAAAGGGAGCCAAAAGAGAAAAAAGCGGAGGGAAGGA AA $A G G G G G A G A G G G A A A A G A G A A A C A A G G G A A A A A A A A A A C G$ ACAGGAAGAGAGAGAAAAAGAGAGAGGAAGAAGAAAAAAGGG A A GAA A A G GAAAGGGAAGAGCCAAAAGGAGCCCAAAAAGACC A G G G G GAAAAAAGGAGAAAAAAAGAAGAAAGGAAAGAGAGAA A A A C G A G G A GCAGGAGCCGAGAGGGAGGCAGGCAACGAGGAG AACCAGAAAGAGAGAGAGGAGAGGGAGAGGCCAAAAGGAGCA GAAGAGAAAAGGAGAGAGAGAAACAGAAAAGAGAGGAAAAAA AAGGGGGGAAAAGGAAAAAAAGGAAAGAGGAAAGAAAAAAAA $G G A A A A G A A A G A A A A A A A A A A A C C A A G A G G C C G A A A G A G A A G$ C C C A C C G G A G G G G G G G A G G GAAAACAGAGGGAAAAAAAAACAA G GAAAAAGAAAGGACCGAGAGGAAAAGGAGAAGGAGAAACAA AGCCGAAGGAAGAAGAGGCAAAGGAAAGAAAGAAAAAAAGAA A A GAAGAAGAGAAAGGAACCAGGAGGAAAGGAAGCAAAAGAC ACAGAAAAAGGAAAAGGACACAAAACAGGGACAGGAAGAAAA A GAAGGAGAAAGAGAGAAACAAAGAGGAAAAAAGAGAAAGAA AAAGAAGACCGGAGCCGAAGACAACCAAAAAGAGAGAGCAGA G GAGAAAAAAGGAAAAAAACGGGGAAAGAAAGAAAGAGAGAA G GAGAAACAAGGGGAGAAGGAGAGGGAAAGGGGGAAAAAAAG A A A A A A G G G G A A A A A A A GAA A GAAAAA AA GAGGAGAA GA G GA A G GAA A G G A G A GAGAAAAAGAAAAAATAAGACAGAGGAAAAA A G A A A A A G A G A A G A G G G GCCGGGGGGAAACAGAGGGAAAGAA GAAAGGAAGGAAGGAAAGGGGAAGGAAAGAGAAAAGAAAGAG G GAAA AAAACAGGGCAGAAGGATAGGAGAGAAAGGGAGAGGG A A A A A A A G A GAGCCGAGAACAGAAAGCAAGGAGAAGABACAA GAGGGGAAAAGGGGAAACAGGAAGAAAGAGGGAGGGCAAAAG C CAAAAAGGGGGAAGAAAAGAACAAGGGAGAAGAAAAGAGAC A GAC G A A G A G A A A G A A A G G A A A A C GACGGAGGGGCCAACA G G GAAGAAGGTTAAAAACGACCAAGGGGAAAAGGAGGAGGAGAG A G A A A A A CA GAGGAAGAGGACCGAGGAAAGCAGAAGGGAAAAA G GCAA GAAAGAGAAGATTAAAAGGAAAAAATTGGAAGGAGAA
 ACAAAGAGCCAAGGACAGGGGAAGAGAAGGGGAAAAGAAAAA AAAGAAAAAAAAGGCCAAGGAAAAAGAGGGATAAAACAAAAG AAAGAGAGGGAAGAAGAAGGAAAAAAAAACAGAGACAGAGAA GAACAGAGAAAAAAAGGGGACGGAACAGACAGCAAAAAAGAG GAAAAAAAAAGGAGGAAGAGAGGAAAGAAGAGAAGGAGAGAG AACCAGAAGGCAAATTCAAGAGAGGAACGGAAAAAACAAAGA G GAGAGGGAGAGAACCAAAAGAGCCAAAAAAAAGAGAAAGCC AAAGGACCAGAAGGGAAAAGAGGGAGAGAAAAGGAGAGAGGA A GAAAGAAAAACACAGGAGAAGGAAGCAAAAGAAACAAATAG A GAGGACAGAAAGGCCAGAGACGAGAAAGAAGAGCAAAAABA A GAGAGAGAAAAAGAGAGGAAGAGCCAGAGAAAAGACCAGAA AAAGGGGGGAGAAAGAGAAGAAGGAAAAGGAACCACAAAGAG A G G GCCAAGGAGAAAAGGAGAGAAGGAAAACCGGAAAAAAAA

G G G GAGAAGAGAATAAAGAAAGAAATAGACGAGAGAAAGGCC GAGGAGAAAAAAAAAAAACCAACCAGAAGAAGAGAAAAAGAA AAAAGAAAGAAGAGAACCAAGGAAGAAAAAAGGGAGAGAGAA A GAGAAAAAGAAAAACAAAGAAAGAGAGCAAAGAAGGGAAAG GAAAAAGAGAGAGAGAGGACAGGGGAAGAAAAAAAAAAGGCA

AAAGAAGAAAAAAGGGGAAAAAGGGGAGGCCGAGAAGAGCC A GAGGGCCGGAAGGGAAGAGGAGGGAGGAAAAGGGGCAAAAG A A C A A A G G G A A G A G A G A G G G A G A G G G A G G A A A A A A G A A A G A A GAGAACAAGAGGAGAGGGAAAAAGAAAGAAAGCCAAGAAAGG A GAGAGCCAAAGGAGAAACCCAAAAAGGGAAGAAAAACGGGG A A G G G A A A A A A GAAAAAGGAAAGGGGGGAAAAGAAAAA GAAG A A A A A A G G ACAAA A A GAAGGGAAAAAAACAGAGCGAAAAAGAG A GAGAAGGAAAGAGAAACGAGAAAAAAAAAAAAGAGGGAGAG A GAGGGAAGAGGGGGGAGGAAGGAGGAAAGGAAGAAGACAAA GACCGAACAAAGGAAGCCAAAGGGAGAAAGAGGGCAGAAGAG A A A GAGAGGCAAAAGAGGAAAACCAAGGAGGGAAGGCCAGAG A G G G A A A G A GAGGGGAAAAGAGACAAGAAAAAAGGGGAAGAG $A C A G A G A G G G A G G A G G C A A A G G G G A A A A A A A A A A A A G G A A G A$ G G A A A G G A C C G GAACAGGAGGAGAAGCCAAAAACCCGAAA GA G G G GAAGGTAAGAGGAAAAAAAGAAAGGAAAAAAAACAACAC G GAAGGAAGGAGGGAACAGAAAGAGGAACAGAAAACACAAGG A G G G A C G G A A A A G G G G G G A A A A A A A A A G G GA GA G G GA G GAA A CACCGGCAAGGAACGGGGAGAGAGAGGAGGAGGGGGGGAAAC A A A A G A G G A G G A G G C C G G A GAAAA A A A A GAAAAAAA A A A A A G G G
 CATTAAGGGAGACCCCAGAAGAAAACGACAAGGGAAGGAAAA GAGGAAAGAAGGAGAACAGAAAGGGGATTTAGGGGGAAGCAA G G GAAGACAAGAAAACGGACGGGAAGAAACAAAGAAAAGAAA AAAAAAAAAGAACCGGGAGAAGGAACAGCCGAAAAGGGAAGG C C A G G A G GCA G GAAACAAAAAAAGGAGAGGAGAGAAAAAGTT G GAACCAAAGAAAAAAAAAAACAAAGGGGGAAAACCGGAGGA A GAAA AA G G GAAA $A \operatorname{A} G A A A A A A C G A G A A A G G A G A G A G G B A A A A$ A A A A A A A A G GCAG GAGCCTAGAAGGGGGAACCGGAAGGAGAA A CAGAGGGAAAATTGGAGACCAAGAGCAAAAACCGBAAAGAA A GCA C A A A A A A A A G C A G A A A G A G A A G A G G G G G A A G G A G T T T A AAAAAGGGACAGAAAGGGAGCAATAAACAGAAAAAGAGAGCC AAAAAGAAAGAAACAAAGCCAAAGACGAAGAAGGGGGCAAGA A GAAA $A \operatorname{GAA} C A A A A G G T A A G A A G A G G A A A G A G A A A G A A G G A G$ A A A A G A A CA A G A G A A G G GCCAGAAAAAGAGAACA GAGAAGAA A GAGACACAGAAGGGAAGGAACAGAAGAAAACGCGGGAAAAG A A A A A A A A A A GAGAAAAAAAGAAAGAAGGGGGGGAAAAAGGG A AACAGGAAGAATAAAGGGAAACCAAGGAGGAGGGAGAAAAA CAA GAAAGAAAGAAAAGGAAACAGAAAAGCAAGGAGGCAAAA A GAGAAAAAGAAAGAGGAAGAAAGAGAAAGAGGCGAAGAABA A A GA $A \operatorname{GAAA} A G \operatorname{A} C \subset A G A G G G G G A A A A G A A G G A G G A A A A A G A A$ A GAACAGGAGGAAAGGAGAAAAAGAGAGAAACAAACAGAGAC A GCACCAACCAGGGAAAAAGCGAGCCAAAGAGGAGAAGAAAA ACAAGAAAAGGAGAACAGGGAAGGAGAGAGAGACAAAGAAAG GAGGCAGGAAAAAAAGAGACAAAAGAGGGGAGAGGACCAACA GAGAAAGAAAGGAAGAAAGAGAAGCCAGAGAGAGAAAGAACA AAAAGGAAAGGAACGGACAAAGAAGGGGGGAGGAGAACACAB GAGCAGAGGGGGAAAGAGCCAACAAGACAAGGGAGAAAGGGG GAAGGGTAGGAAAAGGCAAACACCAAAACCTAGGAGAAAAGA AAAGAAGAGGGGGGAAAAAACCAAGGGGGGCCAAAAGCAAGG GCAGAGGGAAAAAGAACCAAAGACGAAGAAAGAGAGAAAAAG AAAGGAAGAAGGAGAGAGAGACAGAGAGACAAGAAAAAAGAG A A A A GA A G A A A A A T A A A A A GAA G GAAAATTAAAAAA GAACA A A A A A A A A A A ACCGAACAAAAAGAGAGAAAGAAGAAGAAACBG

A GAGAAATAGAAAAAGACGGAAAAAGGAAATAAACAAGAAAT A A A A A A A C A A A A A A GAA GAAAAAGAGGAAAAGAGGGAAGGAG AAAAAGAGAGAAGGAGACAGAAAGAGAGAAAAAAAAACAGAA A A A GAGAAA $A \operatorname{AGGAAAAAGAAACAGAAGAAAGCAAAGGGAAGA}$ A GAAAAAAGACAAATAAAAAGGGGAAAAAACAACAAAAAGAA A A A A C A A A A A CACACAACCAAGACAGAAAGAAATAAAAAGGA A A A A A GAGAAAAGGAAAAAGCCACAGGGAGAGGGACAAAAGA G G GGCCAAAAGGAAAACAGCAGAGAGACACAAAGGACCGGGG G G A A A A C G G G G C G A A A A G A A A A A A G G A G A G A A A G A G A A A G A G GAGAAAAACCAAACGGGGCAGAAGAAATGAGACAGAGGAGAC A G G GAGCCACAGAGAGAGAAAAAAAGAACAAGAAAGGAAGCA A G GAGAAGCCAGAAAAGGAAAGGAAAAGGAGAAGGGGAGGGG A A G G G A A A GA G A A G A G G A A GAAAAA A A A A A G GAA G G GAA A A G AAAAAAAGGAAGAGAACCGGAAAGAAAGGAAGAAAGGGAAGA CAAAAAAAAGAACACCGGAGAGCCGGAGGGAGAAAAAAAGGG AAGGCGGAGGCCGGAGAAAACAACAGGGAAAGAAGGAAGGAC AA A GAAGGAACCAAAGATAAAGAGGAGAAAGAAGACGGGGGG A A GAGAAAGGAACCAGAGCCGGAGGGAAGGGAAAAGAAACAG A G A A A A GAAGAAGAAACAAAAAGGAAGGGGAACAAAAGAAAC A G TAACAGAGACAGAAACGAAAAGGGAAAAAGCCAGAAGGAA ACAAAGCAACAGAAGGAGAGAGGAGAATAAGAAGGAGACAAA GAGATAAGAGAAAAGAGCAAGGAGAACAAAACAGAGAGAAGA G G G GAAACAACCAGAGAAGGAGAGAAGAGAACCCGAAGAAAG A A A G A A A G G G G GA G A A A G A A A G A A G G A G G C C A A G G A G G A G A G A GCCAAAGAGAAAGACAAAACGAAAAACGAGACCAGGGGGGA GACCGAGAGAACCCAGAACCAAGGGAAGAGCGGAGAGAAGAA GAAGAGAGCCGGAAAAAGAAAAAACCGGCCAGGGAGAGAAAA A GAA A A GAGGGAGAGAGGGGAAAAGGCAAAAGAGCAAAGACA GAGAGAAGGAAAAAAAGAGAGAGAAAAAAGGGGGAAGGGGGG AGGAAGCAAAAGAAGGAAGGCCAACAGGGAAGAGAGACACAA A A A A A GAGAAACAGAAGGCCAAGGGGCCGGAGAAAGGBAABAA G GAGAGAGCAAAGGAAAAACAAAGAAACAGGAAACCACAGAA $C \subset A A G G C A A A A G A C A A C C A A A G A A A G G G A C A A G A A A G G A A A A$ CC GAGGAGGGAAAACAGGAGGGGGAAGAAAGGAAAAAAGGAA A A A G A A A G A A G A A A GAA GAGACAAAGAGACAAAGAAAAAGAA CAACCCATCCACACAAGAGAAAAAAAAAGGAAGGGGACAAAG G GCAAGGAAAGGAGAAGCGAAGAAAAAAAGACAAAGAAAGCA AAAGCAAGAGACAAAAAAAAAGAAGAGAGGAAAATTAAAAA G A G A A A A A A A GAGGAAGAACAGGAAAAGGAAAGACAAGAAGAA C CAAAGCAGAAGAACAAGAGAGGAGAGAGACAAGGAAAGGGG AACCAGGGGGGAGGAGCCAAAAAAGGACGGCAACAAACAAAA A A A A A A A G GAGGGAAAAAAGAAAGACAGAGGGCCAAAGAAGG GAGGAGCAAGCCAAAAGGAAAGGAAAAAAAAGGAAAGAACBG G G G GCCAGAGAAGGAGAGAGAGAGCCAAATAGAAGAAGAAAA A G G G A A A A A A A A A A A GAGAGAAAAAAAGGAAAAAA GAGAAG G G GAAAGAGGAAAAAAAAAAGAGAGAAAGTAAAGAAGAAAA GA A A C A A C A G A G G A G A GAAAGAAAAGAAAGAGGAAAGA GAAG GA A A GAA A A G G GAAAAAACAAGAAAGAAAACGAAAGAGAGAGGA A GAGCCGAACAAAGAAGAGAAAAAGGGGAAAAAAAAAGAGGA A GAGAGCGGGAGGGAGAGGGAGAGAAAAAAAAAGAAACAAAG G GAAGCAGAGAGGCGGAAAAAAAGAAGGAAAAACGAGAAABA ATAAAAACACAGAGGGAGGAAGACCCGAGACAACCAAGTTAG
 GAGGTTCACGGGAGAGAAAAAGAGACGGAGAGAAGGGGAAAG A GACAAAAGAAGGGAGAGGAAGAGGGAGAGGAGAGAAAAAGG CAAGGGGGGGGAAGAGCGAGAAGAAGAAATCCAGGGAAGGGA A GAA $A$ A $A G G C A A G A G A G G G A G G A A A A G A A C C A A C A A A A A A G A A$ GAAGGAAGAAAAAAAGAAACACAACCATACAAACA GAGAAAA A A A A G GAGAAAAAGAGGGAAAAAGGGAGGGCCAAAAAAAGAA

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GAGAAACAAAGAGAAAGAGAAGAAGAAAGAATAACAGGAAA CAGGGGAGAAGAAGAGAAAAAGCCAGAGGAGAGAACAGAAAA A GAGAA $A \operatorname{A} A G G G G G A A A T A C A A G G A A A G G A A T G G G A A G A A C C$ AAAGTAGAAAAAGGAAAGAGAAAGAGAAGGAAAAGGAAGGGG ACAAAGGGACGAGACAGAAAGGAGGAAGCCAAAAGGAAGGGC A G GACAGGCAAAAAACCAGGAAAAGAAAAGGAACGACCAACC A ACCAAAAGGCCAGACGAGGGGGGGGGAGAACCCAAAAGGGG $G G A C A A G A C A A G A G A A G G A G G C A A G G G G A T A A A G G G C C A A A G$ G G G GAAAAAGCCAGAAAAAGAGGAGGCAAGAGAAAGACAGAC A GAA $A$ AA A A G GAGGAGAGAATTAGGAGAAGAAAGAGAGACAG G G A A A G GCGGAAAGGGAGAGAGACCCGAAGGAAGBAAGACAG $A C G G A G C C A A G A A A G G G A G A A A A G A A G A C C A A G G B A A A A G G G$ A A G GAGAGGGAGGGAGAGGAAGGAAGGACCAGAGCAAAAGGG ACGGAAAAAGCAAAAACAGAAAAGGCGGAGAGAABAGAAGAG A GAAAGAGAAACAGGAAGACACAGCCACAGAGAGACAGAGCA A GCAGAAAGAGAAAAGCGAAAGACAGAAAGGAGGAGGACAGB A G GACCAGAGACAAAAAGGGAAAGCCGGAGAAAACCAAGGAC $A C A A A A A A G G A A A A G G A C G G G G A G A A A A C C G G G A G G G G A A G A$ A GACAGAAAAAAGGGAAGAGCCGGGAAAGGGACAAGAGAAGG A A G G G GAA A A A GAGGAAAGAAGGGAGAAAGAAACGAAAAAAA GAGAGGGGGGAAAAAAACGGAGACGAGGAAGGGGAAGAAGGG
 A GAG $A \operatorname{AA} A G G G G A A A G G A A A G A A G G G A G C A A C A G G A G A C G A A$ GAAACCTAGAAAGGCCAGAGAAAGAACGGGAAGAAGAGAGAC A G A A A G A G GAA $A \operatorname{GA} A G \operatorname{A} G C A A G A G A A A G A G A A A A G A A G A G G A$ GAAGAGAAAAAGGAAGAAAACCGACCAAAAACGGAGAAGGGA GAAAGGGGAAAAGAAAAACAGGTTAAGGAGAGAAAAAGAGAC $A C G G A G A G A A A G A G G G A G C A G G A G G G A G A G G G A G G G A G A G A A$ A G G A A C A A G G G A A A G G A A A A A CAGACAAAAAGGGAGAGAAAC GAAGAAAGACAGAAAAGGAAAAAGCAAGCAAAGBAGGGAGTT A GAGAGAAAGGAATAAACAGAGAAACAAGAAAAAAGAAAAA G AAAGAGAGGAAGAGGAAGACCCAGAGCAGAAACAGAAAAAAG AAAGCAGACCCAGCAGAACAAGCATTGAAGACAAGBACAGAG A G GAAAAAGGAGAGGAAAAGAAAGAAAGAGAAAAAAGAAAAG $A C A A A G G A A C A G G A A G A A A G A G A G A G A A A A A C A G A G A A A G A G$ G G G A A A A G A G A A G G G A A A G A G A G A C C A A G G G G A G A G A A G G A A AAGGAAAAGAGAGAGGAAAACCAGAGGGAAAAGAGAAAAGAG A G T T G A A A A GA GA G GAGGAAGGAAAGAGGAGGAAAAGAAGAA AAAGAAGACGCCAGAGAAAAGAAGACCCGGAAAAAAAAGAGG A A A A A A A A GAA $A$ A A A $A$ GA A GAGAAAAGAGGGAGAAAAGAACAG A G G A A A G A A A C G A G G G A A A GAGAAAAAGGACAGGAAAGAACA TAAAAGAGACCCAAAGAGACAGAGAAAGAAGGAGAAACAAAA GAAGAGGGACAGAAGCGAACAGAAAGGAGAAAAAAACACAAA $G G C A A C A A C C A A A G A A G G A A A G A C A A G A A G G G G G A A A A A A G G$ C G G A A A A G A A G A A A A GAAAACCAGGGACAAAGAAAAAAAGAG A A A G G GA GAAAAAAAAGGAAAAGGGAAGAGGGAAGAACCC GA A GAGCAGAACAGCCAAGGGAAAGGAAAAAAAACAAGAAGGGG G GAAA A GAGGCGAAGACCCGAAGGAGAAAGAAAGGGAABAAG GAACGGAAAGGAAGGGGGGGAGGGAAAAAAACAGGGGGGGAA G G A A A G G A A A C A A A TACAG GAAAAGAGAAACATTGGGGGAGG G G G G G G G G A A A A A A A A CAGGGCAGACAGGGCCAACCCAAAAA A A GA $\operatorname{A} G A A A G A G A A A G G G G A A G A G G G A A A T G G A C C C A A A A A G$ AAGAGAAAAGAGATGGACAGGAAAAAAAAAGGGATTACAAAA

A A G GAAGGGAGGAAGGAAGGCCACAAACGGGGAGAAAAGAAA CAAAAGAAAGAGGGGAAACCAAACAGAAAAAAAAGEAAAAAA ATAAAGGGCAAGCCAACAAAAGACAAAGGAGGGGGACCACAAA ATGAAGAAGAAGCCGGGGAGCGAGGAAGAGACGACAGGAGAA AAAAA $A$ A $A$ GAAAAAAAAAAAGAAAGAGAAGGGAAGGGGAGAA A A A CA $A$ A A A GAGAGAGAGGGACAAAGTAAAAGACAAGAAAA G A A A A A ACCA $C$ A A A GAAACAGGAGGGGGGGGGCGAGAGACACAA GGGAAGACCCAAAGAGAAGAGAGAGAAGGAGGGAGGAGAAAG AACAGAGGAAAAAGAAAAAGATAGCGAAGAAGAAGAAGAGAA G G G GAAAGAGACAGACGGGGCAAGAAGGAAGAGAAAAGAGAA G GAAAACCAGACAAAAACCCACGGCCAAAGCCAAAGAAAGAA GACCAGGAGGAAAAAGAGAGAAAGAGAGAAGGGGAAACBGGA G G G G A A A A A GACGAAAAAGGAAAAAACAAAGGGGGGAGAAGA $G G A G A A A A A G G G A G C C A A A G A G A G G A A G G G G A A A A G A A G G G G$ GAGGAAAAGGGGGGGGAGAGGAAGGGAAAGGAAGAACAAAAG G G GAA A ACCGGGGGAGGGAGCCAAGGGGAAAAAACCTTAAGA G GAACCGAAGGAGAGGAGAGAAAGGAGAAGCAGGAGAGAAAA G G G A G A G G A A A A G G A G A T A A A G A A A A G GAAA A A GA G G G C C G G GAAGGAAAGGAAGGAAAAAGGAAGAGAGAACCAGGGGAGAAA AGCAAAAAAAAAAGGAAAAAAGAGAAGGAAAGGAAAAGCAAA GAGGGGGGGAAAGGGAAAAGAGAGGGAAGGACAAGGAAGGGA
 GAAGAACGGGAGGGAAAAAGAGCAAAAAAAGAAGGAAGAGAA G GCCGAGGAAGAAAGAGAAAGGCCAGAAAAAGAACAAAAAAC A G G G A G GAGGAGAAAAGAGAAAGGAAAGAGAAAACCGAAGAA G G A A A GAGGGAGGGAGCAAGAAAAGGAGAGGAAAAGAAGGGG G G G GA GAA A GAAGGCAAAGGAAGGTTAAAAAGACAAAGAGAA A A A G A A A G A G A A A G GAAAAAACGGGACCGGAAGGAGAGAAGA A G GAAAAAAGCCGAAAGGAAAGGAAAAAAAAAAACCATAAGG AAAAGAACAGAGAGAAGAGAACACAAAGGGAAGGAAGCAGAC A A A A G G G A GAA $A$ A A GAGAGGGAAAGAGAAGGAAAAAAGGAGAA GAGGAAGACAAGGAAGGGGGAGGAAGAAACCCGCACCCAAGA ACGAGACGAAAAAGAGCCGGAACCAAAGAAAGAGAGAGAGAA ATAGAGAAGGAAAAAGGGGGAGACACAGAAAGGAACAAGGAA ACGGAGAAAGCCGAAGGAACGGGGGAGGAAAAAAAAAAAAAA A A A TAAACAAAAAAAAAGAAGGAGGACAAGGAGGAAGGCGCC AAAAAATTAAGGAGGGAAAAAGGAGAGGAAGGGAGCAAGAGA A A A A A A A G G GA A A A A GAGACGAGAACGGGGCCGAAGC GAGAA A G G G G A A G G G GAGGGGAAAAAGGAGGAAAAACAGGGAAAGAA
 GAACAGAGAAAGAAAAAAGAGGGGAGAGAAAAGAAACCGGAA G G G G A A G A A G A A G GAACAAAA $A$ A A GAGGGGGAGGGACGGACA G AGAAGGGACCAAGGGAGGGGAACCAGAAAGAAAAAGAAGAAG AAACGGGGAGGAAAGGAAAAAAAAGAAAGAAGAAAAAAAAAA A G GAAAAAGAAGGACCGGGGCCGGGGAAGCGAGGGGACAAAG
 AGGGCAAAGGAGAAGGGGAAAAAGACAGGAAAAAGGAAGAAA A A A GAGGGAGGGGAGAGGAAGGAAAGGGCCGGGGGACCAAGA GAGGAAAGCCAAGAAAACAGACAAAGGAAGCCAACCGAAAGAA GAACGGCCCCAGAAAAAGAGGGAAGAGAAAGAAAGGAAAAAA A GAAACCCAGAGGACAAAAAAAGGGGAAAAAGCCCAAAGGAA AAAAGGGGAACAAAAGAGAAAAGAAAGGATAGAAGGGAAGAG A GAGAGGGAGAAGGAAAGAAAGGGGGAGAGGAAGAAAAAAGA G GAGGGAAGGAAAACCCAACAGAAAGACAAGAGAAACCAAAG A A A A A A A G A GA A A A A A A A GAAAAAAGGCAAAGAAAAACAGAA A GAGGGAGAGGCAGAACCGGAAAAAGAGAGAGAGBAAAAA G G $A$ AAAGGAGAACAGAGAGGAAAAAAAACAGAAAGAGAGAAAGGG $A G G A A A A A A A G G G G G A A A A T G G A A G A A G A A G A G A G A A A A G A G$ AAGAGAAAAGGGGACAAGAAAGGAGAAAAGAGGGAGGAGGGA

G G GAGGGAAGCAGGGAAAGGGAAAAAGGAGGAAGCAAAGAAA GACCGAACAGGAGAAGAGGGGGAGAAAGCAGACCGAACAACC AAAAGGAAGGGGACAGAAGGAAAGAAAGAAAAAACCCCAGAG AAGAACAGAGGAGGAAGGGGAAGGAGAGGAGAGAGGCAAAAA A GGCCAGATAAGGACGGGAAGCGACAAGGGAAAGAGAAAAAG A A A C A A C C G A A A A G A G A G G G G G A GACACCCCCGGGGG
G GAGGGGGGCCAAAGAGAAAGGAGGTAAGAGAGCAAGAAAG AAAGAGGGAACCAAAAAGGAAGGGGGGGCCAGAGACGGAAAA A A A G C A G G G G A GAAAA $A \operatorname{AGGGAGAAACAGAAAAAAAAAGAAAA}$ AAAAAGAGGAAAAAGGACAAAGAAGAGGAGGAAGAGAGAAAG A A GAAA A A GAGAAGGAGGACACAGAGAGAGAAAAACAGAAAG A G G G A G A GCACCGAACGGGGTAAGAGGGCCGAAAAAACAA GA G G G G A G A A G A A G G A GAGGGGGAAGAGAGGAAGGAGAAGAA G G A GAGGAAGCAAAAAAAAAAGAGGAGGGGAAAAGGAAAAACAA AAGGACAGAGGAAAGAAAAGGGAAAGAGGGAAGAGAAAAACC G G G GAAAGAACCAAAAAAACAAACGGAAGAAGCAAGCCGAGG A GAGAAAAAGAGAGAGGAAAGACGACAGAGAAGAGGGCAGAA A GAGGAGGAAAAGAGGAAACAGCCAGAAAAAAAAAGAGAACC $G G A A G G G G T T A G A C A G A G G G A G G A A A G G A A C C C A A A A A A G G G$ G G A G A A A A G G A G G A G G G CAGCAACAGGAAAAAAGAAAGCAAA AAAAAAAAGGGGAAAAAAAAAAAGAAAGAAGGACAAGGAAAG GAGGGAAGGAAAGGAAAACAAAGGCCAAGAGAAAAAGAAAGA $G G A C A A A G G G A A G A G A G A A G G A G A A A G A A A A A A G G G G A C A A A$ A GACAGAGGAGGAAAGAGAAAAAAAAAGACAAAGCACAAGAA AACAAGAGGAGAAAAAAGGAAGAAAGAAACCCAGGGAAGAAA A A GAGAGGAGGAAGGAGGAGAAGAAAAAAAAGCCGGAAAGAG
 C CACACGCGGGAAAAACAGGAAAAAACGGGAGATAAACAACC A GCCAAAAAGAGAAAAAGAGGGAGGAAGAAAAAGBAAGAGAA $G G A G A G A A A A A A A G A G A G G G G A A A G A A A G G G G A G A G A G T T A A$ C C A A C A A A A G A C G A A G A A A G A G A G A A G G A G A GACGGCCAAA G ACAGAGAGGGAAAGAGAAAAAAAGAAAAAATAAGGAAAAGGG AAGGAAGAAGAAACGGCAGGCCGGACAAAGAAGAAGAGAACAA G GCCAAAGAGAGGAAAAAAAGGCCAGGGGGAGAGGAACAAAG ACGAAAAAAAATAACAAGGGAAGCCAAGAGACACAAACAAAG AACGAGGAAAGGAAGGGGAAGCAAGAAAGATTACAGAAGAAA A A A A A A A G A GAGGGCAAAAAAGACAGAGCAAAAAAAGGCACA C CAAAAGAACAGGGGGTAAACCAAGAAAAAACAGAGGGAATA A A A G A GAGAGAAAAAGAGAACAAAAACAAGAGGGGGAAAAAA A A A A G A A A A A G GC GAGAACAGAGGCAGAGACCAAAGAGAAC G A GAAGAAGGAGGGGAAGAAGAGAAAGAGAGAGAGAGAAGAGA G GAA $\operatorname{G} G \mathrm{G} G \mathrm{C} C A A A A A A G A G T T A G A C A A G G A A C A A C C C A G A A A A$ AGCCAAGACAAAAACCACAGGGCACCAGCCAAGGGGAAGGAA A A G G A G A G A G G G G G G G G G A A A A A T G A A A A A A A G G CA G G G G A A A GAGAAAAAAGGAAGAAGAAAAAGGGGGGAAGGAAGAAAGAA A GAGAAAAAGAGAAGGGGAAAAGAAGAGGAGGAAAAGGAGAA C CAGACGGGAAACAACAAAGAGAGAAGCAGAAGGAAAAGGGG
 AAGGACAGAAAGGGAAGAGAAGAGAGAACCAGAAGGAAAAAG AGAGCCCGGAAAATGAGGAAAGAAAGAGAGAAAAAGAAAGAA A GAGACAGAAAAAGAAAGAGAAAGAAAAAAAGAGAGGAGGAA A G G GAAA GAAAAAGAAAAGAAGGCCAAAGAAAGGAGAACCGG G G A A A A A G G G A A A GCCGGCAACAAGAAGAAAAGACCAAAAAG GAAGAAAGAGAAGGACAGACGGCCAAAGAGAGGGACAGAGAA A A A A A A A A A GA GA GAGAGAGAAAGAGAAAGAGAGAAAGAGGG A GAGAGGAGAACAAAGGAGGAGAACAGGAAGGGACCGGGGAG G G G G A A G G CAGGGGCCGGCACAAAGAAGACGAAGAGAAGGAA AAAGAAACAGGAACAGAGTAAAAGACAGGGGAGBAAAGACAA AAGGACGGGGAACCCAGAGGGAGAAGAAAAAAGAAGGGAGGA

GAAACCAAGAGGAAAGGAGGAAAAAAAAGGACGGGGGGAAAA G GAA $A \operatorname{GCCA} A G G A A C A G G G A A A A A A A A A A G A A C C G G A G A G A A$ GA A G A G G G A A A G G C G G G G A A G G A G A A C C C A G G G A A C A A G A G G A ATTAGGCAGAGAGGAAAGAAGAAAGAGAAAGAAAACAAAGA G G G G G GAA $A$ A A A G GAAC CAGGGACTAGGGAGGAAAATACACA GAA A G GAGGGGAGGGAGGAGAAGGCCAAGGGGAAGGAAAAAA A A A A G A ACAA GAAAAAAGAACAGGGGAGAGCAAGAGAAACAA G G G G G GCCAGAGAAGGGACCGGAGAGAGCCGGGGACAGAAAG A G A A A A GA G GAGAACAAGGGAAGGAAAACCAAGGAGCGGGAG AGACGAAAAAAAAGAAGAAGGAAGAGAGACATAAAAGAGAAA A GAAA $A$ A $A$ AAAAAAAAAGAAAGAGAACCAGAAAAAGCBAGAA A G G A A A A C A A A GAGGGAAAAGGAAAAAAAAAAAAAGA GAAA G $A$ A G A A A A A A A GACCCAAAAAAAAAAAAAAAAAGAAAAAAGGCC A A G G G G A A A A A A A G G G G G G GAGAAGAAAGGAAAAAAAAAAAA G GAGACCCAGGGAGAAACGGAGGAAGGGGAAGACGAGGAAGA A GACAGGAAGGAACAGAGGGCCGAGGGGCAAGAGGAGGCACA
 A A G G G G GAACAAGGGGAGAAAGAGGAGAAAGGAAAAAAAAAA GAGAAAAAAGACGAAAAGAGAGAGGACAAGAGGGGGAAAGGAG AACCAGCAGAAGAGGGAGACGGAGGAGGAAGGGGAAAGAAGA GAAGCAAAAAAGAAGAAGAGGGCCAGAAAAAAGGAAAAAAGG A G G GAGAAAGAAAAGAGAAGAAAGAAGGAGAAGAAGAAAGAG GAGAAGAAGAAGGGCCAAGGAAAGAAAGAGAAAAGAABAABAA A GAGAAGAAAGAAAAAACAGAAAGACGAAGAGGAGAAGAAAA GACAAGAGCAGGCAAGCAAAAAGAAGGAGAAGAGAAAAAAAG A GCCGGAAAAGAAGAGAAGGAAAGGAAAGGGGAAGGAAGAAG CAAAAAAGAAAAGGGGAAAAAGGGCCGGAAGGAAAAGAAGAG A A A A G G A A A GAAGGAAAGCAGGAGGGAGAAAAGAAAAAAAAG GAAAAGAAAGAGGAGGGAAAAGCAGAAAGGACCAAAGGACAA AAAGAGCCAAGAAGAAAAGAACAAAAAGAAAAGGAGAAAACC A A G G G A C A G G A A A G G A A A A A G G A A A A A A G G A A A A G A A A A G A G G GAAAAGGAGAAGAGGAAAAGGACAAGAGAGAGGGAGGCAGG AAAGAGCAAAAAAAGAAGGGGGAGCAAAAGGAGAGAAAAAAC AAGGAAAACCGGAAACAGAGACAACCGAAGAGGAAAAGAGAG
 G G A A A A G A A A A TAAGGGAGGGAGAAGAGAAGAGA GAACAAAG ACAAGGGAGGGAAAGGAGCCAAAAAAAGAAGGGGAGAGAAAA AAAGGAGGCCAACCAGAGACGGACGAGGCCAGAAAAGGAAAG G G G G A G T T G G A G C C G G A GAACCGGCAACAGAAACA GA G G GAA A G GAGGAAAGGAAGGAACCGGGGAGCCAAAGAAGGAGACGGGG AAAAAACCAAAGGGGAAGAACCAAAAAACCCAAAAGAAGAAA G G G A A A A A C C A GAAA A G G GAAGAGGAGGGGAGAAGAAAA GA G GAAGAGGGAGAAGGAAAAAGGGGGGAGGCCGGAACACCAGAA A A A A A G G A GAA A A A A GAAAAAAAAGAAAGGAGAGAGGGAGAA A A G G G A A G A G A CA $A \operatorname{GAAAGGAAAGAAGGGAGAACCGAGAAGAC}$ GAGGACAGAAGAAAACAAAGAAACAGAGGAAGAGAGAGAGAA A GAAACAGACAAGAAGAGGAAGGGAGAAAAAAACACCAAACAA A GAGAGAGGGGGAAAGAGAAAAAGAACCCAGAGACAGAAGAA ACAGAAAGAGAGAGCCGAAACAGAGGGAGAGAAAAGAGGGAC GAAAAACCAAAAGGGGAAGGAAGAAAGGAGGGAGGAGAAAAA AAAAGGAACAACAAAAAGAGAGGAACGGAACAGGCCGAAGAG A A A A A A CAACAAA $A$ A A A CCGGGAAGAACCAGAAGGGGGGGGAC A A G G A G A A G G A A A G G G A A A G A G A A G G G A G G A A A A A G G G G G A A AAAAGGAGAGAAGAAGAGAGAGGAAGGGAGGGAGAAACAAGG A A A A TAGGAGAAGGGGCAAGGAAAAAAAAGAGAGAGAGAGAG A A G A A A A G A G A A A GAGAGGAAGAGAAAAAGCACA GAAAAA GAC ACAAAAAGAAACGGAAAAAGACAGAAAAGAAGAAAGGAACAA A A G A A A G G A A G GAC GA GAAAAAAAAAGAAGAACCAAGGBACC AA $A G A A G A G G G G A A A A G G A A A G A A G G G G A G A G A G A A T A G A A C$

A A A A A A A C GAAAAGAGAAAAAGAACCAGGGAGGGCAAAAAGA GAAGGAAGAAAAAAAAAGAAAAAAAAAGAGGCAGAGACA GAA A GAGAGAAGAGGCCAGAAAGAAAAAAGAGAAAAAAGAAGAAA GAAGGAAAAAAAAAAAACACAAAAAAAGAACAA GAAGGAAAA CAAAAGAAGGGAAGAACAGGGAAAAAAAAAAGAAA GAGGGTT $A G C A G A A G A G A A A A A G A A G G A G A A G G G G G G G A C A A G C$
C G GAGAAGGAAAAAAGGAAAGAGAAAAAAGGAAACCAGAAG AAACACAAAGCACCGGAAAAGGAGAAAGAAAGAGAAAGAGAG A G A G A G A G G G G G G A G G G A C A A G A G A G G G A A A G A A A G A G A A T T AAAGAGAAAAAAGACCAAAGGACAAAAGGAACGGAAAAAAGG A ACAGAGGGGGGGAAAAAAAAAAAAGACGAAGACAAGGACCA GAGAAGGAAAGGAGGGAAGAGGGGAGAGGACCGAAAGGCAAA
 ATAGAAAGAAGAAGGAAAAGAAAAGAAGGGGAACGAGAAAAC A G G G G A A G G GAGAAAAAGCAAGCCAAAGAGGAAAGAGGGGGG A G G GA GAAAGACGAAAGGAAGAAGAAGGCCAGAGAGAGAAGA A A G GAGGGAAAAAAAGGCAGGAGGAAAAACAGAAAGGAAAAA A A A G A A A G A G A GA GAGAAACGAACAGGGCAAGACGGAGCATA AGGGCAAAAAGGGAAAAAAAAAGGAGCGGGAGAAAGAAAAAC GAAGGAAGAAAAAGGAGAAGAAAATAGAGAAAACCBAAGAAA AAGGACCCGGAGAAAAAGACGGAAGGAGAAAGAGAAAAAAAG ACAGAAACAGAGGACAGAAAAGGGAGAGAAACAGAGGGAGAA C C A G A G A G A A A A A G CAGGGGAAAAGACAAGAGAAAAA GAAAA $A C A G A A A G G G A A A A G G A G A G A G C C A A A C G G A A G G A G G G A A G G$ A G G G G GAAAAAGAGGAAGACAGCCGACAGGAAAAAGAACACA A GAA $A$ A A A G GAAAAAAAGGGGGAACAAGAAACGGGAAGAGCC AAAAACGGAAAACAGGAAGGAAAAAAGGAGACAAAGAACCBG AAAAGGCCGGCCCCCCAGAAGGGGGGAAGAAACAAAAAAAAA A A A A A A A G G GACAAGGACAAGGAAAAAAGGAGGGAAAAAGAA ACGAAAAAAAGGAAAAGGAAGGAAGGGGGGAAAAAAAAAAAA G GAAGGAAAAAGAAGAAGGGAAGAGGAAAAAAGGAAAGAAAA AAAAGGAAAAAGGGAAAGAGAGACAAAAGGAAACCCGGAAGG A A A A A GAAACACGGGGGGAAGGAAAGGGAAAAAGAAAGAGAG G GACACAAAAAAAGAGCAAAAAACAGAACCAAAGAAGGAGAA $G G A A G G A G A A A A A A G G A G A A G A G G A A A A G G A A A A A A A A G A A A$ AC GAG G A A A C A GAGAGAAGGGAAAAAGGGGAAAGAAAAACAA AAAAAAGAAAAGAGAGAGAGAAACGGAAAAGGAAGGAAGAAA A G G GAA $\operatorname{A} G A A A A G G G G A A A A A A A A A G A C G G A A A A A A A G A A G G$ A A A A A A A G ACAAG GAAAAAGTTGGAAAGAGAAAAAAAAAGGG GAAAAAGGAGAAGGGAAAAGGGCCAGAAAAAAGAAAAGAGAA GAGGAAAAGGAAGGAAAAAAAAAGGGAGAGGGGGAAAAGGTA A A A A A GAAAAGCGGAGAAAGGAGGGGAAGAAGAGAAAAAGAG A A A GACGGAGCCGGAGAATTAAAAGGAAGGGGGGGGAAAAGA A G G A A A A G A G A A A A A GAGAACCAAGAAAAGGAAGGGAGAGAG A A G GAGAAAGCCAAAAGGAAGAAAGAAGAGAAAGAAAGGGGA A A A A A A A A G G A A A A TACCGGTTGGAACCAGGGGAAGAA GA GA A C A A A A G A G G G A G G A G G C A A A A A G C A A GAGGGAAAACAA A A G G GAA $A$ A $\operatorname{A} A A G A G G G A G A A G G A A A A A G A A G G A A G G G G A G A C G G$ AAGACCGGAGAAAAAGAGCAAAGGGAAAAGGGAAGACCCCCC G GAGGGAAGGAAAACCAAAGGAAAGGAAAAGGATAAAACCAT GAGGAAAGAAAAACACAGAGAAAGCAGGAAAAAACAAAAGAA A GAAAAGGCCGGAAAAACCAACAAACAGGGGGCCGAAGAGAA A A G A G G A G A G A A G G G A G G A A G G A GAAAGGACCAAAGAGAAAA GCGGGAAGGAAGGAAAAGGGAAAAAGCAAGAAACACAAAAAG ACAGGGCCAAAACCAACCGGGGAAGGAGAACCAAAGAGAGCC $A G G G A A A G G G G G C A A G A G G A G A G A G G G A G A A G G A A G G G A G G G$ ACAAGCAGAAAAACATCGAAAAAAGGACAAAAAGGAGAAAAA A A A G A A C A A A A A G G A A G G A A A A A G G A A G G G A T A G A A A G A G A G A GAAAAGGAAAAAGGGAGCCACAAGGCAGAAGAGCAGAAGGG

A A GAGACAAAGGAAAGAGGGTACAGAGAGAGCCCGAACAAAA A A A C G A A G GAA G GACCAAAGGGAAGGACGGACCAGAAACAGC GACAACGAAGGGAAGCAAAGAGAAGGGAGGAAGAAGAGAGCG GAAAGGGGAAAAGACCGGAAGGAACCCAAAGGAAAAAAGAAA ACAAGAGAAAGAACCGCGAGGAAAGGAAAAAAAAAGCAAGAA AC G A A GA G A A A GAA $A \operatorname{G} G C A G G A G A A G A A G A A G A A G G G G A A C C C$ GACGTAAAGGCCAGAGAAAGAGAAAGAGAAAGAAAGAGAGAG AGAGAAGAAACAAGGAAGGAAAGGGAGAGGGGGGAGAAAGGA ACGACCGGCAGGAGAAGAGAGGAGAGAAGGAAGGAAGGAAAA A GAAAAAGGAGGGGGGGGGGAAGGAAGGTTAAAGACAGAGAA GAGAAGGGAAGGTTAAAGAAAGGAAGAGAAACAAAGAGAAAA GAAGGAGAAAAAAAAAGAAGGAAGAGGGAAAGGAAAAGAGAA GAAAAGAGCCGAGGACAGAAAAGAAAAAAGGGCCAGAGAGAC CACGGGAGCAGGGAAGCAAAAAAAAAAAAAACAAA GAGAAAG A GAAAGAGGGGGAAAGACAACCGGAGAAAGGGGGCAGGGGAG AACGAGCAGAAGGAAAAACCGGGGAAGGGGCAAGACAAAGAA AACCGGAAACAAGGAAGAACAAGCAGAAAAAGAAAACAACAC GAAGGAAACAGAAGAGAGGAAGAACCAAAAAGACAGAAAGGG AAAGACGAAGGGAGGAGGGAGGAGGGGGGAGGGGAGGAAAAA
 AAACAGGGGAAAGAACAAAGAAGGCAAAAGAGAGACAGAGGG GAGGAGGAAACCGGACAGAAAAAGAGCAAGAGAAAGAACCAG A GAGAGGAGGGGAAAGAAGGCAGAGGAAAGGAAAGGAAAAAC A GAGGAAGAGAGAAAAAGAGAAAGAGAGCACCGGCACAAGGG $A C C G C C A G A C G A G A A C G G A G A G C A A A A G A C A A A A A A A G G A G A$ AAAGGAACAAGGAGAAAACCGGGAAGACAGAAAAAAAAAAAA GAAAGAAGAGAGGAAGCAGGAAGGAGAAAGGAGGAGAAGGAA A A G A A GAGACAAGAACAGAGAAGAAAAACCAAAGGGAGAGAA G GAGAAAACCGGCCGGAGAAAGAGAGAGAGAACCAGAGAGCA AGAACAAAAAAAAGCGAGAGAAAAGAAGACAGGAAAAAGCAC
 G G G G G G GAGACAAAACGAAGAAAGGGACAAGAGATAGAAGAG G G A A A GAGGGGGAGAGGAAGGAAGGGAAAAAGAAAACAAGAG GAAGAAAGAAAGAGAAAGAAGGGAGGAAAGGAGAACAAAAAG G GAACCAGAAAACCAAAAGGAGACAGACAGAGAAAAAAAGAC A G G A A A A G A A A A A G A G A G A G C A G A A A GACAAGAAAAG GAACA AAAAGGAAAAGGAGAAAACCGAAAGGAGGACACAGAACAAAA GA GAA A A G GAA AAAAGAGCAAAGGGGAGAAAAGAAACCAGAG G A A A A C A A G G A G A A A TAGAAAAGCAAAAAAGGAAC GAA G GAC A A CAA $A$ A $\operatorname{A} A A A A A G G G A A A A T T G G A A G G A A A A A G A G A G A A C A$ C CAAAGGAGGGGAGAGAAAGCGAAAACCAAAGAGAAGGAGAG G G G G A G A A GAGGAAAAACACAGAAAAGGAGAGAGAGAAAAAA G GAGAGAAAGACCCAGAAAGGGCAGAGAGGAAGGCCGAAGAC C C C A A CAAAAA A G GAAAACCCCGGAAAAAAAAAAC GA GAAA G A A G G GAGGGACCAACCCCAAGGAGAAAAAAGGAAGAGGAGGG G GAGAAAAGGGAATAAAAAAGAAGCAGGAAAAAAA GAGCCGG AAAACCCAAAAGTTAGACCCAAAAAGGAGGAAGGAAAAACAC G G A T T TAGAAAAAGAGGAAGGCAGAAGGAGAAAAACAAAAGG ACAGGAAAACGAAGAGAAAGGAAAAAACAGAACCAAGAAAAA A A C G G GAAAGAGAGAAAGGGAGAAAAAAAGAAACGAAAGA GA GAAGCAGACGCAAAGAAGAGAAAGAGAGAGAACCAAAAGAAG AGGGGAGAACAAGGAGAAAATAAAGGAGGACAAAA GAGAAA G $A G G G G A G A A G T A G G A G A A A G G A A A A A G G A A A G A A A G A A A G G A$ A GAGAGAGAGAGACAGAGAAAGAGAGAAGAGAAAACGGAGAA A GAAAGAACCACAGGAGGGAAAAGAGGGAGAGAGAAAAAAAG A A A A A A A G A G G A A C A G A GAGCCAAGGGAAGGAAGGGCAAAA G
 GAAAAAACGAGAGAAGAGGAGGAGAAAAAAGGACGGGGAAGAG $G G A A G G A A A G A A A A G A G A A G A A G G G A A A A A C C A G G A G A A G A G$

AAACAGAAAGGGAGGAAGATAAGGAGAGACAAAAACAGGGCA A A G A G A A A G G A A G G G G A GAAAA A G G G G G G GCCAGCC CAAA G G AGAACAAAAAGGAAGAAAAGAAGCAAGAAGAGAGAAAAAAAG
 A GAGAGGGAACCAAGGAAAAAAGGGGGGGAGGAAAAACAC GA AAACAGAAGGACACGGAAAAAAACAAAAAAGAGAAGA
GAGCCAAGAAGGGAGGAAGACAAAAAAAACCGGAACCGAAA G GAGAAAAAACCGGAGAAGGACGGAAAAGGAAGGGAAAGGAC A A A G A A G G G G G A G G A A G G G G C A A A A A A A A A A G A G A G A A A G A A A AAAGGGAAGAAAAAAATGAAAAGAGCCGGAAAGGAAAGGGA G GCAAGAGGAAAACAAAAAGAGGAAACACGAAGACAAGAAAA G GAA A G G GACAGCAAAAAAACCGGACCAAAAAGAGGGGAAGA A G G G A A C A GAAA A GAGAGAAGGAAGGGAAGAGACAGAAAAAG AAAGGGGAAAAAGGAGAAAGATGGAGGGGGGGAAAAAGAACA G GAAGACAGGAGAAAAGGAAGGAGCAGGAGAAAAAAAAAAAG A GAAAAAACAAGAGGGGGAAAGAAAAAAGGCAACAAGBAGAA AACAGCAGGAAGAGAAAAGGGAAGGGACAAAGAAAAGGAAGA GACAAGAAAAGGGAGAAAAGCCGGGAGAAAGAAGCBACAGAG $G G A A A G A G G G G A A G A G A A A C G A A G G A A G A C G A C C A A A C A G A G$ GAAAAGGAACGAAAGGGGAGATAACGAAAGAAGAAAACAAAG A GAGAGAAGAAGAGAAAAAAAGGAAGAAAGAAAAAAACAAAA A GAA A GAA A G G G G G G G A A GAGAAGGAAAAGCAGACCGAAGAG ACACAGAGAGAGACAGAGAAAGAAAGAGGAAGAAAAAAACAG ACAGAAACAAAGAGAAGAAGGGAAGAAGGAGGAAAGAAATAA A A GA A GCCAAAGGGCCGGGGGGCCGGAAAGAAAAAGAACCAG AAAAAGAGGGGAAAGGAGAGAGAAGGAGGAGAAAGGGGGGGA G GAGAAAAGAGAGGAAGCAAAGCCAACAAGAAAGAAAAAAAG A G A A A A A G G GCCAGAAATAAAAAAAAAAAGAAACAAAAAA GA
 AAAACCAAAGAACAGAAGGAGCCCAAAGCAGGACACGGGGAA A G A A A GACAAA $A \operatorname{A} G A G A A G C A A A A G A A G G A A A G A G G G A A G G C C$ GAAGGGACCAAACCGGAAAAGGAAAAAAACAGAGGGCCAAAG AAAGGAAAAGAGGAAAGGACAGAAAACCCAAGGGAAGGGGGG $G G C A A G A A C C A C A A C C G G A A A A A A G G G G G G A A A G G G A A A G G G$ GAAACAAAGGAGAGGAAAAAGGAAAACGAGAAAAGGGGAAAG
 G GAGAGGCGGAGGGGAAGGGGAATAGAAAGAGAGAGAACACG A G GAAA A A G G G G GAACAGAGGGAGGGAACAACAAGAAAAA AA A GAA A G G GAGAGCAGGGAAAGAAGGAGAAAAAAGAGGAAGAT AAAGCCAAAAAGAAGGAAGAAAAGCAAGAAACAABAGGGGGA A GAGGAGAGAAGAAAAAGAGGAAAAGGAAGAAAGAAAAAA GA GAACACGAAGAGAGGAGAAACCAAAGACAAAGTTGAAAAA GA AACCAGGAAGAAAACAAAAGGAAAAAGAGGAGAAAGGGAAAA AACCAAAGACCAGAGAGAAGGGAGACAAGAAAGAAGAAAAGG A GAA $A G G G A G C A C C G A A A A A A G C A C G G G G A G A A A A G G G A G G A$ G G G G A G A G A A A G G A A A A G A A A G GAGGAACAACGGACAGAGBA GAAAGAGAAAAAAGAAAAAACAAAGGGGGAAGAAAGAGAAAA A GCAAACCAGAGAGAAGAGGAGACAGAGGAAGAGAAGGAGAG G GAGCCAGAGAGGAAAAGGGCAAGAGAAAAAAGGAAAGGGGA G GAGAGAACCAAAAGAAAGAAGAGGGCCAACGAGAGGGAAAG AAAGGGCAAAGAAGAAGGCCAAAGGAAGAAAGAAGACAAAAA G GAGGAGAACCCAAAAAAAGAGGAACGAACAGAGGAAGAAAA G A A G A A A G A A A A A A GAACGAACAGGAGAAGAGAGA GAAAGTA GAGGAAAAAGCAAGAGAAAGAGGGCAAGAAATAAGAAAACAG A A G GAAAGAAAAGGGAAAGAAAAGAAGGAGAGAGAGACAGAC GAAGACGAGAAGGAAGAAAAGGAGAGCAAAGACAAGAAGAAA $G G C C G A A G A G G G A A A G A G G A G G A G C C A G G G C C G A A A A A A G B A$ G G A G G A A C A A A G G G G G C C G G G G G G A A A A A A A
$11018000-9 G A A G G G C C G G G G A G A G A A G G G G G A A A G A A G G A A A$

AAAGAACCCCCCGAGGGGAGCAAGGAAGGAGGCCGAAAGAAA C C A A A A G G G G A A GAGGGACCGGGGAAGGCCGGGGCCGGAGAA A GCCAAAGGAGGAGGAGAAGGGAAAGACGGGGAAGGAAAGAA $C C G A A A A A A G G A G G C C G G G G C C G G G G G A G A G A A A G G G G B A A A$ $C \subset A A A C G G A C C A G G G A A A A G G G G A A A G G G G G G A C A G A C A G B A$
 G G GAGAAGAACCAAAAAAAAAGAACCGGAGGGCAGGAAAAAA GAAAGAGAGGGGGAGGGGAAGGAAGGAAAGCCAGGGGGAGAA A A A A G G G G C C A A A A A A A A A A G G G G G G A A A A A A C C G G G G A A G G A A G GAACCGGAAAACCGGAAAAGGGGAAGGAAAAGGTTGAAA A A A A G GAA A GAACC A A G G GAAAAAAAAAACCGGGGCCGGAGAA G GAACCAAAAGGAAAACCAAAAAAAAGGGGAAAACCGGAAGAG G G A A G G A A G G A A A A G G A A G G G G G G C C G G G G G G A A A A C CAA A A G G G GAA $A \operatorname{G} \operatorname{A} A A A A A A G G A A G G A A A A A A G G A A A A A A G G G G G G G G$ G GAAGGAAAAAACCAAAAGGGGGGGGCCGGAAGGAAAAAAAA G GAAAAAAGGAAAAGGGGGGAACCAAGGAAAAAAGGGBAAGA A A A A A A G GCCCCCCGGAAGGGGGGGGGGGGAAAAAAAAGGAA A A A A A ACCGGAAGGGGCCAAGGAAAAGGCCGGATAGAGAAAG G G A A A A A C A A A A A A A A A A GAAG GACATTAACCAAAAGGAGGG GC GA GAGGAAAAACCCGAAGAAGGAAACGGGGAAGGGGCAAG $C \subset A A G G C C G G A A C A A A G G A A A A A G G A A A G G G G G A A A G A A A A A$ G GAAAGGAAAGGGGCCAAAAAGAGAAAGGAGAGGGGAAAAAC A A G G G A A A A A G G G G C C C A A A G G A A C C A A GATACCA GAA G GA A GC G A G A G A G G A G G A G G G G A GACAGGGAAGGGAGGAAAA GACC GAGGTAAGATCCGAGGAGAGCACAACAAGGCAAAAAGAAAGAG A A G G GAGGAAGGCCGGGGAAGGGGCCAGAAAACCAAGGGGAG AA $\operatorname{A} A A G G G A A C C A A A A A A G A C C A A C C A A G G A A G G A A G G G G G A$ A GAGAGAGGGGGGGGGAAGGCCCCAAAAAAAAGGGGAAGGAA G GCCCCAAAAAAAAGGGGGGAAGGAAACAAGACCGGGGGGGG AAAAAAGGAAAACCGGGGGGGAAGAAAAGGAAAAGAAAGGAA G G G G G A A A A GCC G A A A A A A GAA A G G G G GAAAAGGCCAAAA G G AAGAGACAGAAAGGGGAAAAACAGGGGGCCGAAGGACAGAAA G G GAGAAGAGTAAGGGAAGGGGGGCATTAAAAAAGGGGAAAA A A A GAGCAAAAAGAAAGGAGAAAAAAAAAGAAA GA GA GAAA GA A A GAAA A GCCAAGGGGGGAAAAAACCGGGGAAGACCGGGGGG A A G G A A C C A G C CAA $A \operatorname{GGGGC} C A G G G A A G G A A G G C C G G A C A A A A$ GAACCCAGCAGAGAAGAGGAGGAACAGGAAGGGGGGAAAAAG A G G G G GA T GAGGGGGGAAGAGGAAGGGAAAGGGAGACAAAGA G A T T A A G G G A A G A G G G G G A A G G G G G G G G C C G G G G G G G G G G A A A A G G G GAA A GAAAAAAGGCCAAAAAGGACCGGCCAGGAAAAG G G G A G G G G A G G G G G A A C C G G G G A A A A G GAA $A$ G A A A A G G C C C C
 GGCCAAAAAAGGAACCCCGGAAGGAACCAAGGGGGGGGAAAA AACCGGAAAGAGAAAAAGAAAACCAAAAGGACCCBAGAAA GA A A GAA $A$ A T CA $\mathcal{A} A A G G G C C G G G G A A A A G G A A G G G G C C G G A A G G$
 $G G A A A G G G G G G A A A A G G G A A A A A A G G C C G G A A G G A A C A A A A A$ AAAAAAAAAGGCGAGAGAGGAGGAGGGACCGAAAAAGAGGGA A A G G G A A G G G G G G G A C G A G GA $\mathcal{A} G G G G G A A G G A A G A C G C A G G A$ G G A A A A A G A A C C G GAA $A \operatorname{G} \operatorname{A} A A A C G G G G G G A A G A A C A G G A A G A G$ $G G C A A G C C A A A G A A G A A G G G G A G A A A A A A A G G A A A A C C A G A A$ G GAAAAAACAAACCAACCGGGGGGCCAAAAGAAGCAAAGGGG A A G G G A G A GACCGGCCGAGAGAACCAAAAAGGAACCAAAAGG GAGGGAGGAAAAGGGAAACCAAGGGGAAGGGAGAGGAACCGG G GAACAAAAACCAAGGAACAGAGACCACGGCCAAAGAGAGAA G G A A A A A A A A A A A G A A A G G GCC G G A A A G G A A A G A G G G A G G G G AAAGGGCCAACCACGGAAGGAGGAAAGGGAGGGGGAAAAAGG G GAA A A A A A A A G A A G GAAGAGCGGAAGGAGAAAAGGCC GAAA $G G A A C C G G A A A A C C G G G G G G G G G G A G G G A A G G C C G G A G C C G G$

A A G G TA $A \operatorname{GGG} C A A A G G A A G G G G C C A A G G A A G A G A G G C A G G G G$ C C A A A GA $\operatorname{A} G \mathrm{G} G A \operatorname{A} A C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ G G G A G G G G GAGGGGAGGGTTGGATGAGGAAAAAAAACACAAA AAGGGGAAAAAGCAGAAAAGGGAGAACCGGAAGGAAAAGGGG GAAGCAAGGAGGAAAGAGACAAAGGGAGAGCCGGGAAACCGG A A A A G G G A T T A A A A G G A A A A G G G G G G G G A G A G G G G G A G G G G G GAGGGAGGACGAACAAGAGAGAAGAGCCAGGGAAAAGGAACA G G A A TAAAAAAAGGGCCGGCCAAGGGGGGGAGGAAGGACAA G G A A A A G G G G G G G A A G CA $\mathcal{A} G G G A A A A G C A C C G A G G A A A G A G A G$ $C \subset A A A A G G A A A G A G C A G A A A A C A A G A A A A G G A G G A C A A G G A A$ A G G GAA A A G G G GAAAAAACAAACCAAGGGGGGGGGAGAAGCA G G A A G G G A A A A A A A G G A A G A A C G GA G CAA G GA G GCCCC G G G G C G G A G A A G A A G A G G GAGGTAAAGGCCGAGAAAAAAGAAAAAG AACCGGAAGGAAAGAGAGCCGGAGAGAAGGCCGACCAAGGGG GATTGGGGAAGGGGCCAAAAAAGGGGGGGAAGGGAGGGGGGG G GAAAAAGGAAGGAAGAAGGAAGGAAAAAAAAGGGAAGGGTT

 $G G A A G G G G G G A G A A A A G G G G A A G G G G G G G G A A A A A A G G G G C C$ A G A G C C G G A G G A A A A A $\mathcal{A} G G G \operatorname{GA} A G G G A G G G G A A G G G A G G G G G G$ G GAGGGCGGAAAAAGACCAACCAGGGAAAAAAAGGGAGAAAA GAAAAAGGGGAAGAAGGAGGAGGGAAGAAGAAAGAAGGAAAA GAGGGGAGGAGGAGAAAAGGAAAAGGAAAGGGGGGBAAGAAA A GAGCAAGGGGAGGGAAACAGGAAGGAAGAAGGGAAA GAGAT G G G GCCAAGGAAAAAGCCGGAAAAGGAAGGAAAAAAAGAGAG A GAAA AA GA GAAAAAACAGGCCAAAAGAGGAAAAGGGAAAAG ATGACAACGGGGAATTAGAAGGCCGGGGAAGGGGCCAGAAGA G G G G G G A A G G T T G G A A C CA A A A A A A GAAAAAAAAAA AAA GAC C A A C C G G G G G A A A A G G G G A A GAAGGAAGAACAGTTMGAGGGGA AAAAGGAAGGGGGGGAGAAGAAAAGAGGGAAGAAGAGAGGCC AACCGGCCAAGGGGGGAAAAGAAAGGACAGCCAGCAAATAGG AAGGGGAAAAGGAAAATTCCGAGGTAAAAAAAGGAAAAAAAA G GAAAAAAAAAAGAAGACACAAAGGGCCAGGATAAAAAGGAG
 G G G G A A G G G G A A C C G G C C A A G G A A GAGGGGGGAAAAAA G G C C CAACGAGGGGAGCCCCGGAGGGAAAAAAAAAGGGAAGAAGGA AACCCAAGAGAGGAGGTTACGAGAGGACACCAAGCAAGACGG A G G GACAC GAACGGGAAGAAGGAAGGAAAA G GAAA GGGGGGGG A A G A A G G A G G A A C C A G A A A G A A A GAAAAAAAAA A G GAAAC G G A A G GAA A GCCAAAAGAGGAACCAGGGAGAGAGGAGGAAAACC G GCCGGGGAAAAGGAGAGACAGGCAAAAAGGGCAGGGAAAAA A GAAAGGACAGAGAGAAGGGAAAAGGAAAAGGCCAACAAAAA
 G GAGGAGGACAGAAAAGGAAGAAGACGGCCGGAAAGAAAACC $G G A A G G A A G G G G A A A A G G A A A A C C G G C A A A A C A A G G A A G G G G$ AACCAAGGAAAGGGGAGGAGAGGAGGCCAGAAAAAGCAAAAG A A G G G G G G A A C C G A G G GAA A A C G GAC G GAC G G G G G A G G G G A A AAGGAAGGAGCCGGCCAGCCGAAAGAGACCGAGACAGGGACC ACGGAAGGCAAGCCGGGGAAACAAGGAAAACCGGGGAGGGGG

 GAAAGGAAGGAAAAAAAGAAAACACCCCCCGAAAGAACGGGG CAAAAAGGGGAAAAAAGGGGAGGGGGGGCCAGGGGGGGAACC C C G GAAAAAACCAAAAGGAAAAAAAAGGAAAAAAAAAA GGGGG TAGAAGGAAAAGGGAAGGGGAAAAGGAACCGGCAACAAAGGG A A G G G G G G A A A A A A G G G G A A C C G G G G GAGGAAA A A G C C G A G G A G G A A CA $\operatorname{A} A A A A A A G G G A G G G G G G A G G G A G G G G G G A G G G A A B G$ GGCCAAAAAAAAAAAAGAGGAAACGGAGAAAAAAGGA
AAAAAGGGAGAGGGAGAAACAAAAAGAGGCGGAAGAAAAGG
$A C C A G G G G C G C C G G G G G G A A A A G G G G A A G G A A A A C C C G A G C C$ G G A A A G G G A G A G G A A G CAA $A \operatorname{AGGACGGAAAGAAAGAAAAGGGG}$ A G G GAA A A G GACAGGGCCGGGAAGAAGAGAGGAAGAACAGGG G G G GC G A G G GA GA GAAGGGGCCGGCCGGAAACGGGGGGACAA G GAA A G G GAA $A \operatorname{ACA} A A A G G G G A A G G G G A A A A G G C C G G C C G A G G$ $A \subset A G A A G G G G G G A G G A A G G G G A A A A G A G A G G G G G G G B A G G G G$ G GCCAAGGGGGAACTTAAAAAAGGGGTTAAGAGGGAAACAGG AAAAGGGGAAAGGGAAGGGGAAAAAAAAGGAGGGCCGGAGAG AAAAGGGGAGCGCCCCAGGGAAGGGAGGGAGGAGGGACAAAG AAAGGGGGCCGGAGGAAGCCGGGGAAGGGGAACAAGGGCAGG
 A A C C A A A A G G G GAAAAAAAGGGGGGAAAAAAGGGGGGGGAGAA A A A A G G G G G GAAGGCCAACCGGAAACGGAGACAGAAGAGGAA A G GA $A \operatorname{GAA} A G G G G G C C A A A G A A G G G G A A A G G G A A G A A A A G A A$ A A G GCCTTACACGAAAAGAAGGGGGAACAAAAGGATAAGGGG GAGGAGAAAAAAAGGAGAGAGGAAAGCAGAGGGGGGCAAGAA A A G A GAGGAAAGAAGGAGACGGAACCGGAAGAAAGAAACAAA GAACACAAGAAAGACAGAAGGGAAGGGGAGAGGGGGGGAGAA $G G A G A G A G A G C C G G A G G G A A G G G G G G A C A G A A A A G A A A A A A A$ GA G G A A A A A A G G G G A A A A A A G G A A A A A G G A A A A A G G A A A A A G GAGGAAAGAAAAAAGAAGGGGCAAAGAAGGGGGACAAAAGAG A A G G G GAGGAGACAAAGAAGGGAAGGAACCAGGGGGAACCGG G G G A C C G G G G T T A A G G A A A G G A G A A G G G G G A A G G G G A G A A G G A A A A A A G GCGAAGGCCAAGGGAACCACAAGAAACCCAAACAG A A A G G G A G G A G G G G A G G G A A G G A A A A G GAA A G A G G G A A A A A $\mathcal{A}$ AAA A GACCGGGGGAAGGGAAAAAGGGGGAAAAACGGGGAGAA G G GAAAAGGAGGGAATGGGGAAAAAGAAAAGGGGAGAAAGCC A A A A C CAAA A G G G GCCAACCGAGGAAGGAGGGAGGGGGAGGG C CAA $A \operatorname{GAA} \mathrm{~A} C A A A A G G G A A G G G G A G A A A G G T A G G G G G G G G G A$ G GAAAGCCAAGGCCCCGGAGAAGGAAAAGGAAAAAAGGAACC A A A A A A A A A A C C G G A A $G G G G G G A A G G A A G G G G A A A A A A G G C C$ C C G G G GAAAAGGGGAAGGGGAAGGGGCCAAAAAAAGAGGGAG AAAGAGAACCTTAGACCCGGGACCAACAGACAAAAAAATAGG GAAGGAAAGGAGGAGAAGGGAGAGAAAAGGGGCCGGGGAGGG CA $A$ A $C \subset G G A G G G A G G G A A G G A A A G A G A C G G G A A A G A A A A G G G$ A G G G G G G G G G A G G G A G T T G G G G A A A A A A G GAA G GAAC CAAA A CAAAAGAAAGAAAAGAGAGGCCGCGCGGAAAGGAAAAGAAAG CAGGGGGAATAGGGGACCGGAAGGCCCCAAGGGGACGAGAGA A G A A A A C CAAA $A \operatorname{A} G A G A C C G G A A A G G G A A A A A A G G A A A A G G G G$ AAGGAGCCGAACAAAAAGCCGAGGAGACAGGGAGGAAAAGCA AAGGAAGGAAAACCAAAAGAAGAGCACCACAAACCCCCAGCA
 AAAAAAGGAAGGAGGGATGGGAGAAGCCAAGGAGAAAAGGAA GAAA A GAGGGAAAAAAAAGGGGAGACAGAGGAAAAGGGAGAA C CAAAAGAGGAGAGAAGAACACAGAAGGCCAAAACAGAGGGG A A A G A A A A GAAAAAGGGAAAAAGAAGGAGAAAAAAAGAAA GA A A G G G A A A GAAAA A A G G G G G A A G G A A G G C C G A G GA G G G A A A $G$ C CAGAAGGAAACCCGGGGAAGGAAAACAAAGGAGCCGAGGAG A GAGTTGGCCGGAGGAGGAAAGGAAAAAGGGGAAAAAAAACC A A A A C C A C G G A A G G A GCCAGAAGGCCGGAAGGGGGGCAAA G G AA G GCCAAAGAAAGAGCAGAAAGGCAAACAGGAAGGGAAAGG AAACGGAGGGGGACAAAGGGAAAAAGCCGAAGCCAAGAAABAA G GAACCAAGGAGCCGGGGGGAGGAAAAAAGAAGBAAAAAGGG AAGGAAGGAGGGAAGAGGAAGGGAAAGAGGAGCAGAAGAGAG A A A A G G G G G G A A A G G G G GAA $A \operatorname{AGC} C G G A G A A A G G A G G A A G G A G$ G G G G G G A A G G G GAAA A C CA A G G CAA A GAAAGGGGGGCCAAAA G G A A A G G A A G A A A A G G A A GAA G G G T T A A G GAA G G GA G G GAA A G G A C A A A G A A C C A A A G C A G A A G A G G GCC G G G G A C A T A C G G G A G GAGAAAAGACCCCGGGGAAAAGGAAAAGAAAGGAAAGAGAT

G GAGAAGGAGCAGGCCCCGGAAGGCCAAAAGGAAAGAAAGGG $A G C C A T G G G G A G G A A C G G A G A A G G A G G G A A G A A G A G A G G G C A$ AA $A G C G A G A G G A A A A A G A G G G A C A A C G A A G A A G G G G A A A A A A$ $C \subset C C G A G G A G A G G G A G G G A A G G G G G G A A G G A A A G G G G G A A A A$ GACCAAGAACAAACAAGAAGAAGAAGAAGACCGGAAGAAAAA A AC GAA A A G GACAGAGGAGGAGTAAGAAAAGGAACCAAGAAA A A G G G GAA A G A GAA A G GAA $A \operatorname{AGGAAAACCAAGGGGAGAAAACC}$ A GAGAAAAGGAACAAACCGGGGAAGGTTAAAAAAAAGGGGCC A A G A G G A G A G G G A A A A G G T A A A G A A G A A A G G G G G G G C C A G A A G GAAAAAACCGGCACAAGGAAGAAAGGAGGAGAGAAGGAGAG G G G G G GAAAAGAGGAAGGCCGGAAGAGGGGAGAAAAGAAAGG A A G A G G G G G G G G A G A A A G A A G G G G A G A G A A G G A A A A A A A G A G
 G G G A A T G GAGGGAAGGCAGGAAAAGAAGCCAATAGGAGACAA AAAGCAACAGCAGAATGAAAGAAAAAACAGAAGAAGGGAAGG A GAA A A A G G GAACGGGAAAAGGGGCCAATTACGGGACCAGAG G G A A A A A A A A G GAACCAAAAGACCAAGGGAACBAAGGGAGAG A A A A C C G G A A G A A A A G G GCAAA $\mathcal{A} A A A A A A A G G G G G G G G G C C G G$ G G G GCCGGGGAAGGCCAAGGGGAAGGGGAAAAAAGGGGAAGAG G G A A G G G G A A A A A A G G A A G GAACCAAGGGGAACCAATTCCGG $C \subset A A C C A A A A G G A A A A G G A A A A G G G G A A A A A A A A A A G G G G G G$ G GAA A G G G G G G GAAAAGGAAAAAAAAAAGGGGAAAAAATTAA C C G GCCAAAAAAAAGGAAAAGGAAAAGGAAAAGGAAAAGAAA G GCCAA C G A A G G G G G GCCCCAAAAAACCGGGGGGAACCGGGG G GAACCGGAAAAAAAAGGGGGGAAAAGGAAGGGGAA GAAA G G $A$ A A A A A A G G G G G GAAAAAAAAGGAACCGGCCAAGGGGCCGGTT A A G G G GCC $C$ G G G G GCC $C$ G $\operatorname{CA} A C C G G G G C C C C A A C C A A G G T T T T$ G G A A A A G G A A A A A A G G A A G G G G G G C C C C A A A A A A G G G G G G A A G G G G A A A A G G G GAAAAAAAAAAAAAGGGGAAAAGGCCGAAAGA G G G GAAAAAAGGCCAACCAAGGGGAGAAAGAAGGGGAAAGAA G GAGCCAAGGTTGGGAGAAAGACCGGGGGGAGCAGGAAGAAA GACACAAAAAGGAGCAGAGGAATACCAAACGGTTGGAAGGCA G G GAGAAAGGAACCAAGAGGGGGGAAAAAAAGAGAAAGAGAA G G G A A G G A A C A GAGGAAGGAGACCCCCCAACATTGGAAGGAA A A G G A A A A G G A A A G A G GAC CA $A \operatorname{AAGGGGGAGAAAAAAAAAGGG}$ G G A A C A G G A A G G A G A G G A A G G C C A A G GAGAGGAGGGAACAAA AAAAGGCCAAGAGGAAACAAAAACAGGGACAGACAAGACAAC G GCCAAGGGGGAGGAAAAGGCCGGAGGGGGGGAAAAGAAAGA C GAA A G G G GAGGAAACAAGAAACCAGTAGACCGGACGGAAAA G G A A A A A A G G G G G G G G G GACA $\mathcal{A} G G A A A A A A A A A G G A A C A G G A G$ CAAAAAAGACAGGGAAGGAAGGGGGGAAGGCCAAAGCGCAGA GAGGAAGGAAGAAGCCGGGGGGGGAAGGAGAGAGAAAAABAA G G G G A G G G G C A G G G G G A A G G C A A A GAACAAAAA A G G C C G G A G AA G G A ACCTTAAAAAAACGGGGAAAAAAAAGGCAAAGAAAAA AA GAAAACAAAAAAAAAGAAAGGAAAGGAACCAC GAAGAAAA G GCCAAGGGAAACCGGAAGGACGGAAGAGAAGCCCAGAAGAC A GCA G A A A A G A CA GCCAAAAGGCCGGGAAGGGAAGAGGGGAA G G G GAA $A \operatorname{GCAA} A G G A G G A A A A A A A A A A A C C A A G A A A G G C C G G$ G GACAGGGCGAGAGGAAGACAGAGAAAGGAGCGAACAACAAA A A A A A A G A G GAGAAGCAGAAGACAGGAAGGGGGAATAAAAAA C C C C C GACGGAAAAAACCAAGAGGAAAAGGAAAAAAAAGAGA G G G G A T G A A A A A G G G A A A G G G G G A A A A G G GAA G G C C A G G A G A G G G G G G G G A A C C G G A A A C G G C C G G A A G GAA A GCC G GAA G G A A ACGGGAGAGGGGAAGGGGAAAAGGCCAGGGGAGGAAAAAAGA A A A A G G G A A T A A A A A A A A G G G G G G A A GAAAACTTAAAACC G C A A A G A A A A A A A G A G GAGACCCGGTTAGAACACAAAGGGGACAG
 GAAAAGGAGAGGGAGGAAAAGGGGAAGGGATTGAAAG
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AGCCGAGGCCAACCGAAGGGCAGGGGAAAAAAAACGGGGAGG
 G GCCCCGGAAAAAAGGCCAAAACCAAAAAACCGGGGAATTGG AACCAAGGCCAAAACCAAAACCAAGGGGAAGGAAAACCAATT A A A A A A A A A A A A A A G GAAAAAAAAAAAAGGGGGGGGGGAAGA G G G A G G G G G G A A G G A A G G A A A A $\mathcal{A} G A A G G G G A A G G A A A A G G G G$ G GCCAA C G G G G G G G A A C C G G G G C C A A A A G G G G A A G G G G G G A A A A A A G GAAAAGGAAGGAAGGGGGGAAGGGGGGTTAAGGAAGA A A G G G GAA A G A A A A A A A A G G A A A A GGGGAAGGAA G GAAAAAAA G G G GCCGGAAGGAAGGGGGGCCAAGGGGGGGGGGAAGGGGGG AA $A \operatorname{GA} A A A G G G G A A A A G G A A A A A A A A C C A A G G A A G G G G A A G G$ A A G G A A C C G G G GCCAAGGAAAAGGGGAAGGAAAAAAAAAAAA G GAA $A \operatorname{G}$ GAACCAAGGCCGGGGCCAAGGAAGGGGGGAAAACCCC

 G G G GAA A GAAGGGGAAGGGGGGAAGGAAAAAAGGTTAAGGAA A A G G A A A A A A G GAAAAAAAAAAAGGGGGGGGGGCCTTAA G GAAA G G G G G GAA A GAAAACCGGGGGGCCGGAACCGGGGAAGAAAAA AAAAGGCCAAAACCAAGGGGAAGGAATTCCAAGGAAGGAACC G G G G G G G G C C G GAA $A \operatorname{GGG} G C C A A G G A A G G G G A A A A G G A A G G A A$ T TAA A GAAGGGGGGGGGGGGAAGGAAGGGGAAAAGGGGAAGG G GCCCCGGAAGGGGAAAAGGGGAAAAGGAACCGGAAAAAAAA C CAA $A \operatorname{G} G \mathrm{G} A A A A \operatorname{A} G A A C \subset A A G G A A G G G G G G G G A A A A G G G G G G$ A A A A G G A A G G A A G GAACCAAGGAAAAGGGGAAAA GGCCGGGG A A G G G G A A A A A A A A C C G G G G G G G G A A G G G G G G G G C C C C A A G G C CAAAACCAAAAGGAAAAGGAAAAAAGGAAAACCGGGGGGGG
 G G G G A A G G C C A A G G G G G G G G G G G G G G C C A A A A $\mathcal{A} G G G G G G G G G$ A A G GAAAAAAAAAAGGAAAAAAGGGGAAAAGGAACCCCAGAA C CAAAAGGGGAAAAGGGGAAGGAAGGGGGGAAGGAACCAAAA C C G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A A A G G G G G G $G G C C A A G G A A G G G G G G A A A A G G G G G G A A G G A A A A G G A A A A A A$ AA $A \operatorname{GGGAA} A A A A A A A A C C C C A A G G G G A A G G G G G G A A A A G G C C$ AA $A \operatorname{GGG} \operatorname{GA} A G G G G A A A A A A G G A G G G A A G G A A G G A A A A G G A A A A$ C C A A A A A A A A A A G GCCGGAAAAAAGGCCGGGGAAAAAAAAGG A A A A C C G G G G G GAA $A \operatorname{G} G A A G G G G C C A A A A G G C C G G A A A A G G G G$
 G G G GAA A G G G G GAGGGGGACGAGAGAAAAAAAA GAAAACCGG A A G G A A A A A A G GC G A A A CACAGGAGAGGAAAGACGGGACAAA A G G GAACCAGCCAGGGGAAAAGCCGGAAGGACAAGAGGAABA $C C G G A G A G G G G G G A G A G G T T G G A A A A G G A A G G G G C C G G A G A A$ AAGGGGCCACAGGAAAAGGAAAAGGGCAAGGACCGAAAAA G G $A$ AAAAGGGGAAGAGGAAGGGGAAAGAGGGCCGGGGGGAGAAGG G GCAAAAAGGGAAAGGGGGGAAAAAGGACAAGGGGGGGAGAG
 A A GA $\operatorname{A} A A \operatorname{A} G A A A A G G G A G G A A G G A A G A G G G A G A C A C A G A A A A G$
 AAAAAAGGAAAAGGCAAGGGAAAAAAAAAAGGAGAGGACCGG GAAAAGAGAAGAAACCGAGAAGAAGAGAAAAAAAAAAACAGB A A G G A A $\mathcal{A} G G G G G G G A G G G G G G G G G G G G G A A A G C G G G G G A C A A$ AACCAAAGAAAGAAAAGGGAAAAGAACCAAGGCCBAAAAAGA $A C A A A G A A C A A A G A G G A A G A A A G G G G G G G G C G G A A A G A A G G G$ GAAACCGGCCGGAGCCGGCCGGGGGGAAGGGGGAGAAAAAGG AAGGAACCAAAAGGAAAAAACCAAAAGGGGGGAACAAGAGCC
 A GAGACAGAAAAAAAGAAGGGGAGGACAGGAAGGAGGGAAAA G G G GAA A A A G G GA G GAAAAAAGAAAGGCCGGAAAAA GGGAGAC G G G G G GC C G G A A A G CA C C A A A A G GAAC C GAG GAA G G A G G G A A A G G GAACAGACCCCGGAAAGGGGGAAAAAAACAAAAAGCAAA

G GAGGGCCGAGGAAGAAAGGAAGGGAGGGGAAAAAGGGAAGA GAAA A G G G A A G G A A A A $\mathcal{A} G A G A A G G G G G G G G G G G G A A G G G G G G$ AATTAGGGAGGGAACCGAAGGGAACCGAAAGAACAGAGAAAA AAAAAAAAGGAAGGAAAGGGGAACGAGAAAGGCCGGAAAAGA A GAGGGGGGGAAGGAAAAGGGAAGCGCAGGGGAAGAGAAAGA AAGGTTGGAAAAAAAGAAAAAAAGAAGGATAACCGACCCCAC A A G A A A A G A G G G G GAAAAAAAAAGGGGAAAGAAGGCCCCAGAA $A C A G A A G G A G G A G G A A A A G G A G A A A G A G A G A A G G A G C A C A B G$ A A A A A A T A GCAGGAACGGAAAACCAAAAGGACCCGCGACCBG A GAAAGGAAAGAAGGGCCGGCCGAAGAAAGAAGAGGAAGAAA A GAAAAAAGGGGAACCGGAGGAAAAGCAAAAAGGGAGAGGAAA
 A GCGGAGGGGAGACGGGAAAGGGGCCAACAGGCACCGAAGGG AGGGAAAAAGGGCCAAAAAAAAGAAACAAAAGCAAAAGAAAA GAAAAAAGGGAGGGGGAAGGGGGGAGGAGAGGGGCCAAGAAA
 GAGGGAGGCCGGGGGGGAGGCAAAGGAAGAGAAGAACAAGEG
 AACCAAGAAGAAGCAGGGCCAGCCAAGGGGAAGGGAAAAAAA G GAGCCAACAACGGAAGGGGCAGGAAAAGAAAACAAGGGGGG AAAAATGGAAGGAAAGAGGGAAGGGGGAGGGGGGACAAAAGG
 G GAAA A $A \operatorname{G} G \mathrm{G}$ GAAAGGAGGGAAGAGGGGGAGGAACAGCAGGAA A A G G G GAA $A \operatorname{GA} A G G G G A G A G A T A A G G G A A A C C A A G A C A G G G G$ A A A G A G GAGGGGGGAAAAAAGGAAAAAAAAGGAAAAAAAAAA GATTGGCCAAAAAACAAGGAGAAAAAAGAGAGGGGGAAAAAA A A G GAGAGAGAGGACAGAAAAGCAGGGGCCGGAACCGGGGTT CAGGGGCCAAACCCAACCAGGGGGAAAAAAAGCCGGAAAAAA G G GAGGCAAGAGAAGGCCACAACCGGAAAGAAAGGAAGAGGA GACAA GAAGGAAAGCACAAGGGGATTGACCGAACGAAACCGG A A G A A G A G G G C A G G A G A A G GAAGGCCA GAGGGAAAACCAGGC A G G GA A A GAAAGGGGAAGAGGGAGGAAGGAGAATAGAGAGAA G GAA A G G G A A A A A A G G G G G A A A A GAAAAAAGGGGCCAAACAA GAGGAGCAAGGGAGAAAGAAGAAAAATAAGGAACGBAAAACC C CAACCAGAGAAAAAAAACAGGGAGAGCAGAAGGAAGAGGCC $G G C C A A C C A A A A G G A G G G A A A A G G G A A A G A G G G G A A C A G G A G$ GAGGGAAAAGAAAGAGGGAACCGGGGGGAAAAGGAAGGCCGG AA $A G A A G G G A A G C C G G A A G A A A G G A T G A A A A A A A C C G G A G A A$ C C G G G GAA A A GAAAGGCCAGAAGGAAGGAAGGGGGGAAAACC GCCACCAGAAGGGGGGGGAAAAAAGGGGACGAAA GAAAAAAG
 GACCGCCAAGGGAAGGGGAACCGGAAAAAGGGAGGAAAAGGG A A G G A A A A A A A A G A G G G G G G G G G G G G G G A A C C A A G G C A G G A G ACGAAAGGCCGGAAGGAAAAGAACAAGGAGAAAAAAAAGGGG T TA G G A A A A A A A A A A CAATAAC GAGAGGAGGAGACAGGGGGA C C A A A G A G A A G GAAAATTACAC GAGGAGGGGGAAA GGGGGAA A A A A C A A A CC G A C C G G A G GACCAAGGGAGGAAGGGGGGAAAA
 AACAAAGACCGGGAGAAGGGGGGAGGAAGGGGGGAAAAAGAA GAAACCAAGGACGACAAAAGAGCCAGAGCCAAGGAAGAGGGA C C GAAGGGAAGGCCAAAAAAAAAAAGAAAAGGGAAGAGACAA
 A A GAA A G A A G A GAGGAGAAGAAGCGAAAGGGGAAGAACAAAG G GAAGAGGGGAGGAAAAAAGGGACTTGAGAGAAAAGAAAAAG GAGAAAGAAAAGAAACCCGAGAACCAAGAGGAGGGGGGGGGG

 A A A GA $\operatorname{A} T \mathrm{~T}$ TAAGGATACGGACAAGGGGGGAAGAAGGGA
A GAAGAGAAAAAACCGGGGGGGGGGGGAAAAGGGGAGAAGG

GAAGGAGAGGAACGGGGAAAGGAAGGAAGAAGGGAAAAAAGB G A A A G G A A G G G G A A C C A A A A A A G G G G G G G G C C A A A G A A A G A G A GCAGAAAAAGGCAGGGGGGGGCCCAGGAAGAAGGAACAAAC AAAGGATTGAGAGAAGGGAGAAAAGAAGCCAGAGGGAAGAAA AAAAAAGGGGGGAAGGGGGGGGCCAAAAGGAAAAGGAAAAAA A A A A A A A A G G A A A A A A A A A A A A A A G G G G G G G GC CAA G G C C A A G G G GCCAAGGAAAAGGGGGGAAGGAAGGCCCCAAGGGGAAAA AACCAAAAGGAAAAGGGGGGGGAAAAGGGGGGGGGGCCAGAA G GAA A GAA $A \operatorname{A} G A A G G G G A A G G G G A A G G A A A A C C C C G G A A G G A A$ G GAAGGGGAAGGGGGGAAAAGGAAGGGGGGGGAAAAAAGGGG G GAA $A \operatorname{GAAAAAAAAAGGAAGGAAAAAAAAGGAAAAGGAAGAAA}$
 C C G GAA A G G G A A A A A A G G G GAAAAAGGGGAAAAAAGAAAAAAA A A C C C C G G G G G G T T G G A A G G G G A A G G A A G G A A G G G G G G G G C C G G G G G G A A G G G G G G G G A A G GCCAAAAAAACCAAAAGGAAAAAA A A A A A A A A G GAAGGCCGGAAAAAGGGAGGGAGAAAGAAAAAA $A G C C A C A G A A A A G G A A G G G A G A G G A C A A G G A G C C A G A A A G A G$
 C C G G G G G G A A C C G G A A T TAAAAAGGGGGGCCGGAAG GAA G GA A G G G G A A A A C C C C A A G G A A G GAA $A \operatorname{GGGGGGGGGGGGCXAA} G G G G$ C C C C G G G G A A C C G G A A G G G G A A A A G G C C A A G G G G G G G G G G C C
 $C \subset C \subset C C A A A A A A A A G G A A G G G G G G A A G G C C A A G G G G C C C C B G$ A A G G G GAACCCCGGGGGGAAAAAAGGGGAAGGAAAAGGAGAA G G G G C C G G A A G G G G G G G G G G C C G G C C A A A A A A G G G G G G C C G G G G G G G G G G A A G GAAAACCGGAAAAGGAACCAAGAAAGGAGAA G G G GAA $A \operatorname{GGGAA} C C G G A A G G A A C C A A G G G G G G A A G G G G G G G G$
 G GAA $A \operatorname{GCC} G \mathrm{C}$ GAAAAAAGGAAAAAAAAAAAAGGGGAAGAAAGG C CAAAAGGGGGGCCAAGGAAGGGGAAAAAAGGAAGGGGAGAA G G A A G G G G T T A A A A A A A A G G G G A A C CAAAAGGAGCAGACAA G G GAAA A A A G GAAGAAAAAGAGGAGGGCAGGGGTAAA GGGGGG A A G G GCAA $\mathcal{A} G \operatorname{G} G A G G G C C G G A A G G A G G G C A G G G A A C C C G G A G$ G G G G G A A A A G A A G G A A A A G GAA A GAGAGGAGGAAA GAGA A A A G G A A A A G G A A A A A A A A G G G G A A G G GAA $A$ G GAAA A A A A A A G G A T
 G G G GAA A A GAAAAGAGGGCCAAGGCCGGAAAAAAGGAAAAAA A A A A G G G G G G G GAAAAGGAAAACCAAAAGGGGAAAAAAAATT C C G G A A A A G G G G A A A A A A A A A A G G G G A A C CAAAA A C C G G G G G G G G G GCCCCAAAACCAAAAGGAAAACCAGCAGGAAAAGGTACC A GAGAAGGAAAGAAGAAAGGAAAAAACGCCCCAAGCAAGGAC GAGAGGCCAAAGGGAGGGGGAGAGAGCCGCAAAAAAGGAGGG C C G GCACAGAGGAAGAGAAAAGGGACAAAGAGGGGAGAGGAA AAAAGAAACAAAGGGGAAAAAAGGAAGACCGGAAAAGGGGAG AAAGAAAACCGAAACCAAAAACAACAAAAGGAGGAGGGAAGAG G GAAGGCCACAAAAGGAAAAGAGAAACAAGGGAGAGAGAAAA C GCCAGCAAAAGGAAAGAAAGGACAGGGAAAAAAAAAACACA AAGGAAAGGAGGGGAAACGGAAGGAGAGAGGAGGGACCAGGG AAGGGGGAGACCAAGGACCGGAAAGAGGAAAACCAAGAAAAA G G A A A A A A A G G A A GAGACCCCAAAAAGGAAGGAGGAAAAAGG G GAA A G G G G G G GAA $A$ AAAATTGGGGGAAAAAAAAAAGAAAACC G GAGAAAGAGGGAATTAAAAAAGGAACACCGGAGCCACAAAA C C G GAA A G A A A A G G G G A A A A A GCCGGGGCAAAAACAGACCGG GAAAAAAGGGGAAGGGGAGGAGAGGGGGCCAGAAAAGAAGAA A GAGAGAGGGAGGAAAGGGGAAAAGCGGGGCCGGAACAAAAA
 GAAGCAGGAGGGCCAGGGGGAAGAGGAACCAAGGGGCCGGGG G GCA GACAAAGGGGCCAAGGAGAATAAAACAGCACAAGAAGB GAAAGGGGCAAGGACCCAACGAGAAAAGAGAGGAGAAACCAC

C CAACAAAGGAAGAGGAAGGGGAAAAGGAGGGAAAACCAAAC A A G G A CA G GAA A A CAGAGACCAGGGAAGACGGAAAAGAAAAG GAGGCCGGAACCAGGGAAAACCGGGGAGGCAGAAGACCAAGA A A A A GAGGAGAGAGAAGGAAAAGGAAGGGAAAAGATCCAAAA G G G GACAACCAGAAGGAAGGAAGGGGAAAAAGAGAAGAAGAC G G A A A A A G A A G A G G G G A A A A A A C C G G G G G G T T A A A A A A G G C C A GAA A GAGCCCAAGAGACGAAAGGGGGGACAAAAAGACAGAG GAAAAAACAGGAAAAGAGGAAAAAGGGGCCAGAGGGGGACGB A A A A A A G A G G G G G G G G G G A A A A A A A A G GAA A G G G G G G A A A A A GGGGAAGGCCAAAACCAAACAAACCCGGCCAAGGAAAAAAGG G GAA A A G G GACCACAAAGAAGGGGGGAAAAGGAAAAAAGGGG
 A A A A A A C C G G G G G G A A G A A GAGCCGGGGGACAAGGAACAA G G A A A G G G G A A G G G G G G G CA $\operatorname{A} A A A A G G A A A A G G G G A G A A A G A G A A$ CACCAGAGGACAGAAAAGCAAGTAAACACCGGGGAAGGCC GA CAAGCCAACCGGAAAGGGGGAGGGGGACGAAACAGGGATTGG A GAA A A G G G G G GAA A A GAAAGAAGCAAAAGGAGAAAAAACAG
 $G G A A A A A G G G C C A G G G A G G A G A A A G G A G A A G A G G G G G G A G A A$ G G G G A A A A A A A A A A G A G A A A G G G G C G G G A A A A A G A A A G G G G A AAGAGGAAGGTAGGAAAAAAAAAACCAAGGGGAAAACCAAGG GAAAGGGGAAGGGGCCAAGGAAGGGAAAAAGGGGAACCGGGG A A G G A A A A G G A A C C G G G G G GAGAAGGAACCGGAAAATXGAAA G G A A A A A G G G G G G G A A A A G GAACCAACCGGAAAGA GAACC G G G G G G A G G A A A C C G G G G A A A A GAGGGGCCGGGAGAG GA GAA GA GAGAAAAAGGAAGGGGAGAGGGCAGGAGCAGAAAGGGACAGA

 TAGGGGGGGGAACCAGAAAGCAGAGGGAAAGAGGGAAAACBG G G G G G G G G G GAA A GAA G GAAAAACAACCGGAAAAGAAACCCC C C A GCA C G A G A A G G G G A T G G A A A A C A G G A GCC G G A G C C G G G G G GAACGGAAGGGGGAGCAACGAAAGAGGGGCCGGGGAAGAAA A A GAAA A A A GAACCGGAGAAAGCAGGGGGAAAGAGGGAAAGA G GAGGCGGGAAACCGAGGGGAGAAAGGACCGGGGAAGGAAAG G G G GCAAGCACGAAGAGAGGGGCCACGAAACCAAAAGGAAGG GACC C G G A C C G G A C C C G G G G G G A A G G G G C C C C C A A G G G A C A $G$ A GAGAAACAAAAAGGAAAGGGAGGAAAAAAAAGGAGGAGGAG GAGAGATTGGAGGGGAAAAGGACGGACAAGGGAAAAAGAAGA A A A A G GCC C A A GAGGGAACGGGGGAGGAGGAAGAA GAGAAAG GAGGGAGAAACCGAGAGAGGGGAGAAAAAAGGGGGAAA GAAA G G G G A A G G A A A A A A C C G G G GAAAAGGGGGGAGGGGAAAAAAA
 G GAGAGACGGAAAGAAGGAGGAAGGGGGGGCAGAAAAACCGG GAAAAGCAGGCCGGGGAAAAGGTTGGGGGGGGAAGGCCAGGG A A A A A GCCAGAAAACCCCGGAACCGGGGAAAAGGGGAAGAAA GAAGACGGGAAAAGGGGGAAGGAGCCAAAAAAAAAAAAGAGA A A C A A A $\mathcal{A} G G G G G G G C A A A G G G G G G G G A A A A A A G G C C G A A A C C$ ATAGGGCAGGGAAAGGGCGGACAAGAGGCCAAAACCGAAGCC G G G G G G GACCAGGAAAAAAGAAAGAAAACCAAAGCCAAGAAA G G G GCCGGAAAGGGGGAGAGAACAGGCCAAGGAGAGGGAAGAG C CAA $A \operatorname{GAAAAAGGAGGAGGCAAAAAAAGGGGCAAAAAAAGAAA}$ AC G G G GAA A G A A A A C C G G G G G GAAAGCAGGAAAAAAAA A A A A A A A A G G G GAA $A \operatorname{GGG} G A A A A A A G A A A G G G G C C G G A G A A G A A A G G A A$ AAGGAAAAAAAAGGGGGGGAGGCCAAAACAAAAAGGGGAAGG C C G GCA GACC GAAGGAAAGGAAGGGGGGAATTGGGGCAAAAA AACCAAGACAGAAAAATAAAAAAACCAAGGGGAAGGAAAAGA GACCAAGGAAAGGGAAAGGGGGCCCCGGCCGGAAAAAAAAAA GACCAACCAACAAAGGGGCCCCAAAGCAGGGACCGGG
GAAGGAGGGCCAAGAGAGAGGAGGAGGAGAGGACAAGAAAG

A G G A G G G G A G A A G G G GCCGGCCAGGGGGGGGGAAGGAAAAGG AAAACCGGAAGGGGGGCCAAGGGGCCAAAAAGGGAAGGCAGG GAGAAGAAGGGGAGAAAGAAAGAACAGGAGAAAGGAAACCAC A A GAGAGGGAAGGGGGGGGAGGAGAGACGGAGGGCAGAGAAA $C \subset A G G G C C G G G G A A A A A A G G G G A C G G A A G G G G A G A A G G G G G G$ GAGGGGAAGGAAAAGGAAGGCCAGGACCAAGGCAAGGACACC A A C C A A G G CAA A GAGAGGGGAGGGGGGGAGAGGAAAGAAACC CCGAGAAGGCGGCCAGGGCCGGAACAGAGAACAAGAAAAGGG G G G GAA A A GAGGAAGGAAAAGAGGAAAGCGGAAAGGGGAAAA TAGGAAGGAAAATTCATAAAGAAGCAGAAGGGGGAAAACAAG GAACGGGGAGAACAGGGAGGGAAAGGGGCCATAACCAAAACC GAAGAGGAAGGGGGGGGGAGAAGGAAGGAGGAAAGGAAGAAA G G G G G GCCGGGAACAAAGAGGAGAGGGGAGGAGGGGAGAAAA GAGGGCGGAAGGAAAAAAAGGGGAGAAAAGCCAAAAAAAAAA $A C C C C C G G A G G A G G A G G G A A C C G G G G A A C C A A A A G A G A A G G A$ A GAA $A \operatorname{A} A G G A A G A A G G C C A G C A G G G G A G A A A G G G A G A G A A G A$ A A A GAAAGGGGGAACGGAGGAGGGAGAAGGGAGAAGCAGCAA A GATA $\operatorname{T} A A A A A A A G G A A C A G A A A A A G G G G G G G A G A G G G B A A G G$ AAAAGGAAAGGGCAGGAAAAACAACAGAGGAAAAAGGGAGAG G GAGGGGGAAAGAAGGGATTAGCAAACGGGAAAAAAAAAAAA GAGGAGCCGGGAAAAGGACCAACGAGGAAGCCGGCCAAGAAA G G G G G A G G G G G A A C C A G G G G G G G G G G A A G A A A G A A G A A G G G A G G G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} G A \operatorname{A} G \mathrm{G} A \operatorname{A} A A C A G G G A G A G G G G G A G G A G A A A$ G G G G G A A A GAAAACAACCGAAAGGCCGGAAAAGGGGGGAAAA
 G G G GAGAAGGGGGGAGAAAAGGAGGGGGAAAAGAAACCAAGG G G GAGGTTGGGGCCGGGGAAAAGGGGGGCCGAGGAAGAAAAA G G G GAACAAGGGAAAACAAAAAAAGAGGAAAAGAGCAGAGAA GCGGCCGGAGAAGGAGGGAGCCAGGAGGAAGGCCCCAAAACC $A C A A G G G G A A G G A A G G G A A G A A G A A A A A G G A A G G C C G G C C C C$ G G A A C C A G A G A A A A G G G G G G T T A A G G G G G GAA $A$ G A G G G A C A A G G G G G A G G A G G G A A C A A A G G G G G G G A A G GAA A A C CA G GA GA G G G G GCCAAGGGGGGACGGGAAAAAAAGGCAAAACGAAGAAAA C C GGCCAACCAACCGGAAAAAAAGCCAAGAGAGAAGGGCCGG G G A G A G G G A T A A A C A A $\mathcal{A} G G G A G G G G G G G G G G G A G A A A A A G T T$ G GAGAGGAAAAGAAGGGGAGAAGAGGCACAAAAGAGAAGACC AAAGAAAAAAAAGGCCGGAAAAAAAAAAGGGGGGGGGGAACAC G GAGGAAGGGCCGGGGGGGGGGAAGGCCAGACGGGAAGGGGA A A GAGGGGAGGGAAGGAAGAGGAAAAGGGGGGAAAAAATTAA
 CAAAAAAAGAGAGGGGAAGGAAAAAAGGAGAAAAAAAAAAAA A G G GAA A G G G G GCCAGAGAGAAAGGGGGGGGGAA GAGAACAA AAGGGGAAAACCGGAAGGGGCCGGAAGGGGAGAAGAGAAGTT AA $A \operatorname{GGGA} G A A G G A A G G C C A A A G C C C C A G A G A A A A A G A G A A G G$ G GCC G G A A G G A A C C G G A A A A C C G G G G A A G GAA G G C C G G A A G G G GAAAAGGGGCCCCGGGGAAAAGGGGAAAAAAGGAAGGGGCC
 GAGAAGGAAGAACCGACCGGAGAGGGAAAAAGCACACACAAC AC G G GAGGGGAAGGCGAGAAAAGAAGCAAGGAGAGAAGGGCA

 G GAAAAGGAAAAGGAAGGGGAGGGACGAAGAAGGCCGAAAAG $A C G G A A A A G G A A A A G G C C A G G G G A C C G G A G C C G G G A G G A A A G$ G G GAGAAAGAGGGGAACCGAAAAAGAGAACAAAGCCGGACAA A A G G G GAAAAAAAAAGACGGGGAAGAGAGGGGGGGGAACAAA A A A A GAA A $\mathrm{A} G \mathrm{G}$ GAAGGGCCAAAAGGGGGGAAAAAGGACAGACA A G G GAAGGAAAAAACAGACCAAGAAAGGAAGGGAGAAAAACC C C GAA $A \operatorname{GGGGA} G A A A C G G A A G G A A G G G G G A A C C C G G G G A G B A$ AA $A A G G G G G G G G G A A A A A G G C G A A G G A A G G A C A A G G G G A G G G$

A A A A A GAGGAAGGAAAGATTGGAGAGCAGAGAAAGGAGAAGG G GAAGGAAAAGGCCGAAAAAGAGGACACAGACCAGGAAAAGG A GAGCAAAGGAAAGGGAGGGGAGAGAACAGAAAAAAGGAGAA AAAGGACAAAAAGGAAAAGAAGCCAACGAGCGGGGACAAAAG G G G GAAAAAAAAAATAAAGGGGAATTAAAAAACCGGCCAAGA A G A G T A A C A G G A G A G A A A G G A G G A C CA G G G A A A G A G G A C C T T G G A A G G G G A A A A G A G G T A G GAACAAGGGCAGAACAAAGAAGG G G G GACAGAAGAGGAGAGCCGGGAGGAAAAGGGAAGAAAGGA GA $\operatorname{G} G A A \operatorname{A} G G G C A A G G A G G A G A A A A C A G G G G A A G G G G G G G G G G$ G GAAGGGGAAAAGGGGGGGGAAAAGGAAAAGGGGGGCCAACC G GAA $A \operatorname{GCCA} A G G G G A A A A G G G G A A A A G G A A A A A A G G A A A A G G$ G G G G G G G G G G C C A A G GCCGGAAGGAAAAGGAAAAGAAAAAAA
 $G G A A A A G G G G A A A A C C G G A A C C A A G G C C G G A A A A G G C C A A G B$ G G G G G G A A G G G G G G A A G GAAAAAAA G G C C G GAA A G G G G G G G G G A A G G T T G G G G G G G G G G G GAAAAACCCCAAGGAAAAAACC G GAA G G G G G G G G A A A A A A A A $\mathcal{A} G G G A A G G G G G G G G A A A A G G A A A A G G$ G G A A A A A A G GAAAACCGGGGAAAAAAAAGGGGCCGGGAAAAA $G G A A A A C C A A G G A A G G A A G G A A A A G G C C A A G G A A G G A A C A A A$
 G G G G G G G GCCAA $\mathcal{C}$ G A A G GAAAAAAAGGAAGGGGAACCCCGGGG A A A A A A A A A A G G A A A A G G G G G G G G G G G G G G A A A A G G G G G G A A C CAAAAAAAAGGAACCAAGGGGAAAAAAAAGGCCCCAAGGGG A ACCAA $C$ G $\operatorname{CA} A G G C C G G A A G G G G G G A A G G A A T T G G G G G G G G A A$ A A A A A A G G A A A A A A G G A A A A A A A A A A A A A A GGGGGGGGTTCC $C \subset A A G G C C C C C C C C G G C C G G G G G G A A C C G G A A A A A A G G G G A A$ G G G G G GAAAACCAA $A \operatorname{A} A A A A A G G A A G G G G A A G G G G G G A A G G G G$ G G G G A A G G G G A A G G G G G G A A A A A G G A A A A A A A G G G G C C G G G G G G G G G G C C G G G G G G A A A A A A A A G G G G G G G G G G C C T T C C G G A A G G AA $A G A A G G C C C C A A G G G G G G G G G G C C A A C C A A G G A A G G G G G G$ G GAA A GCCGGGGAAAAAAAAAAAAGGGGAAAAGGAAGGAAAA T T G GAAAAGGAAGGAAAAGGCCAAAAGGAAGGAAGGGGCCGG G G G GAA $A \operatorname{GCCA} A G A A G A A A G A A C C G G A A G A A A G G C C A A C C G G$ G G G A A G G G C C A A G G G G G G G G G G G A C C G G G G G G G A G G A G C A A A G G G G A A G G A A G A C C G G G G A A A G G G G G G A G A G G A A G G A G G G G A $A G A C A G G G A A G A G A G G G A A G G G G G G G G G G G G A G G G G G G G G G G$ AGAATTAAGGAAACGGAAGGCCGGAGACAGGAGGAAAGAGAG GAGAAGACGGGAAAGGCCGGAAAGAAGAGGCCAAAAAACCAA
 A A G GAACCCCAACCGGAAAAGGGGCXAAGGGGGGGGGGAGAA G G G G A A G G G G A A G G G G A A G G G G G G A A A A A G G G A A G G G G G G G G G G G G A A G G G G A A G G G G G G G G A A A A $\mathcal{A} G G G C X A A G G A A G G G G G G$ A A A A G G G G G GAACCAAAAGGGGGGAAGGGGAAGGGGGAGGGG A G GAGAGGAGCCAAAACAGGGGAAAGGACCAAAGAAAGAGAA A A G G G A A GAA $A \operatorname{AGGGCACAGAAAGGAAGGGGAAAAGGAGAGAA}$ GAAAAGCCGAGAGGCAATACAGCCAAAACAAGAGGACAGGBA $G G A A A C G A T A A G G G G G A A A A A A G A A A C C A A G G A A G G C A G G A A$ G GAGAAGGAAGGGGGGGAAAAAAAAAAGGAAAGGGGAAAAAA A G G G G GAGGAAAAAAGCCGAGGGGGATAAAAGAAGAAAAGAC G G G G G A C G A A G G G A G A A G G G A G G G G G C A A G G G C G G A G G G G G G G GAA A G G G GAAAAGGGACGGCCGAAGAAGGCCAACCGGGGAG $G G A A A G G G A A A G G G A A C A A A C A A G A G G A G A A G A G G G A A G G A G$ G G G G A G A C G G A A G G A A G G A G A A G G A A A C A G A G G G G G A A G G G A GAGAAGAAGACCGGGGAAACGGAAGGGGGGAAAAGGGGAAAG GAGGGGGAAAGGACCCCCGGGGGGGAAAACGAAGGGAACCGG GAGGAAAGGAGGGGGAAAGGCCAACAGGGGCAAAAAAGAGGA A GAGGAACGGAAAGGGAGGGGGCCGACAGAAGGAAGCCAAGA A A CAG $A \operatorname{GG} G A A A G A G C C A G G G A A G G G G G G G G A G G G G G G$
G G G A A G G G G G G A G A C G G G G A A G G G G G G G G G G A G G G A A G A A $G$

G G G G GAGGGAAGGAAAAGATAAAAGGGGAGGGGAAAAAAGGG A G G G G A G G ACAACCCCAAAAAGGGGGAAACAGAGGGGAAAAG A GAACCAACGGAAGAAGAGAGAGAGGAGGACCAGCAAAGGGG GAGGGAGGAAGGAACCAGACAAGAGGAAGAGAGGGAGGAAGG AA G GAAAAGGAAGGGGAAACAAAAAGCCAAAAGGAAGGGAAA CACCGAGAAACAAGAGAGAGGAGGTTAGGAAGGGGGGGAAGAG
 AGGGGACCAGAAAAGAAAGAGGAAAACCAGAAAAAAGGGGGA G GAACCGAAAGGGGCCGAACACAGAGAGGAGAGGACAAAGAC $C \subset A A G G G G A A A A G G A G C A G G A A A A G A A G A G A G G G A G G A G G C A$ GAGGAAAAAATTAAGGAAAAGGATGAGGGGCCAGGGGGGCGG
 G GAGGAAAAAGGGGAAAGAAAGAAAAAAGGAAGGAAAACAAA $C \subset G G A A A C A A G G G G A G G G A G C C A A A A G A A A A A G G G G C C G G G G$ A A G G A A G A A G G A G A G G A G G G A A A G G G A G G G G G A A G G T T A C G G G G G GAAAGAGGGCAAAAACCAAGGAAAAGGGGGGAAAGAAAG C C G G C C A A A A A A G G G G G G G G A A G G A A A A G G G G T T A A A A G A G G G GAGGGGAAAGAACGGAAGGGAGAGAGGGGGGAACCCAAAGG AAAAGGAAAAGGAACAAGAAGGAAAACCAGGGAAAAAAAAAA
 AAGGAAGGGGGAGGAAGGCCCCGGAAAGGAGGAAAAGGAAAA AAAACAGGGACCGGGAAAGGAAAAGGCCAAGGAAAAGGCCAC A A A A A A A G A G A G G G A A A G G G GAGGGAAAAGAAAAAAGGAGAA A GAGAACCGGGGGGAGGGGGAAAAGGGAAAAAGGAGCCAABA G GAAAGGGAAAGAAAAGGAGGAAAAGAGACAGAAGGAGAAAA A A G GAAAGCAGAGGGAGGCCAAAGGGCCAGGGGACCGGEAAA A G G GAGGGGGAAAAGGAGAGCGAACCAAGGAAAAAGAGGGAA G G G G G A A G A GAGGGGGGAAAAAGGGGAACCAAAGGAAAGGAA A GCCAAGAAGCAGGAAAAGAAAGGAAGGAAGAGGAGAAAAAA AAAAGGAAAAACATCCGGAGGGCAGAGAGAAAAAAAAAAAGA GACAGGAGCAACCAAAGGAAAAGGGAGGGGAAGGGAAAGGGG CAGAGGGGGGAAAACCAGGAGGCCCAAAAGGGAAAGAAAAGG A A GAAAAAGACCAGAGAAAAGAAAAAGGAGAAAACCGGGGGA C C G A A A G A G G A G GAGGGGCCGGAGAAAAGGGAAAAAAA GAAA G G A G A GA $\operatorname{G} G \mathrm{G}$ GAAAAAAAAGAGGCCGGAAAAGGAAGGGAAACC G G A G G A G A A A G G A G G G A A G G G G G G G A A GAGGGGGGG GAAAA A T TACAGAAAACAAAAGAGGAAGCCGACAGGGGGGGGGACAAA A GAGAGCGAGAAAGGGAGAAGAGGCCGAGGGAGGGGAAGGGG GATACCGAGAAAGGAAGGAACCCCAAACAAGGGGGAGAGGAA A G G G A A G G A G G G G G G G A A A A GAGGAGGAGGAAAAAA A GAAA GA $G G A G G A C C C G G A A A G G A A A A G G G G C C G A G A C C A G A G A G C C G G$ A A A A A A A G A G G A A A A A A GCCGGAGCAGAGGGGACCAAAAA GA GAAGAGCAAACCGGCCAAAAGGACAACCAAAGCAGGAGAGGG GAAGAGCCACAAAGCAGAAGCAAGAAGGGGGGAGAAAGGGGG G GAAAAGGAAAAACGAGAGAAGAGGGCCAGGGAGGGCCAAGAG GAAGAAGGAAGGGGAGGAAAGGAGGGCCGAAGGAAGAGAGGG G G G G G G A A C C A A G G G A A A G G G G A A G G A A A G G G G A A G A G A A C C G GAAAAAAGAAATTAGGGCACCACGAAAAAAAAAAAAAGGGA A A G G G G GAGAGGCGGGCCAGGAAAAGAAGGCACCGAGGAAAG G GCCGGAACAGGGGGGAGAAAAGGGGAAGAAAATCAAGAACC G G A A A A A G A G G G G A GAGGGGGGGGGGCCAAAGACGAAAAAAA AAAAGGCCGGAGACGGGACAGAGAGGAGGAAAATAACCCCGG G GCCGAGAGGAGGAAAAATTCCCCGGAGAAAAGGCCTTGGGG A GAAGGAAAAAAAAAGGACCGAAGGAGGGGGAGAGAGAGACA G G G A A A G G G GAA $A \operatorname{GGG} \operatorname{GA} A A G A C G G G G G G A A G G A A A A A A A A A A$

 A A A A G G A A A G A A AC GAAAACAGAGGAACAGCACACCAACCAA $G G C C A G A A G A A A G G G A A A A A G G G G A A A A C C A A A A A A A A A A A G$

A A G G A A A A GAAGGGCCAGGAAAGAGAGGGGAACCAGAAGGCC GAAGGGAGTTAGAGGAAGGACCGGAGAGAGAAGGAAAAAACA GGGGCCGAGAAGCAAGAAAAAAAAGAAAGAGAGAAACCCAAA G G G GAAAGGGGGCAGGAGGAAAGAAAAAGGGGCCCAGAAGCC AAGGCCGGGGAACCAAGGGAAAAAGGGGAGAAGGGAAAAGAG GAGGGGGGAGACAAAAGGAACCAAAGAAAAAGGGAAGAAAGG A A G G A A G G G G A A C C GAGAGGAAAAGGCCCCGGGGGGAAAAAA AAAAGACAAGAACCACCAAACAGAAGGGGGTTAAGGCCBGAG G GAAAA $A \operatorname{A} G A \operatorname{A} G A A G G A A A G A A A A G G G G A A G G A A A A G G G B A A$ AAGGGAGAAGAGAGATGAGAACGGAAAGGGGGAAGAGGAAGA GAAGGGAAGGACAACCGGAAGGGGGGACGAAAAGGGAAATGA A GAAAAGGAACAGAGAAAAAGGGGAACAAGAAAAAGCCBAAA
 A A A G G GAAGGCCATCAGGGGAGGGAGGGAAGGAAAGAAAA G G A A A AAACAGGGAAACACAAAAAAAAAAAAAACCAGAGGAAAGGGG AA $A$ A G GAAAGGGCCAGGGCAAGAGCCGGAAAAGGAGCCAAAAA A A A A G GAGCAGAGGGGGGAACAAGAAGGGGGGAAGGAGAACAA $A G C C A A A A A A G G G G A A G A A A G G G G A A G G G G A A G G G G G G G G G G$ GAGAAGAGGAGGGGGAACGGAAAAGGGGCCGGAAGGGGAGAA ACATAGAAAAGGCAGATTAAGGAGCAAGAGCAGAACGGGGGG GGCCGGGGAAAGCCAACCGGAAAAAAAACCGGAGGGACAGAG GAGAGAACAAGGGGAAGGCCAACCAGCCAGGGGAGGGAAAAG $A G A C G A A A A G G G A A A A A G G G G A A A G G G G G G A A G G A G A A A A G G$ $G G A A A G A A G G G G C C A A A A A A G G A G G G C C G G A A G G A A G G A A G G$ AAGGGACAGGAAAGGAAGGGGAAAAGACACAGAAGGAACACC AACAACGGGGGGGGGGAAAAGGAACCAAGGAAGAAACAAAAA GACCAAGAAAGAGAAACCCCGGAGAAAGAAAAAAAAGGGGAA C C C A G G G G G G A G G G G G A A G A G G A A A A A G A A A G G G A A C C G G G G G GAA $A \operatorname{GGG} G \mathrm{G}$ GAAGAAGGGAAAAAAAGAAGGAAAAAAGAGAGG G GAGGGAGAAAAAAAAAAGGGGAAAAAAAACCAAGGCAAAAG G G G G A A G G G A A G C A A G G A A A A A G GAACCAGAAA A A G G G C C A G GGCCAAAGGAAACAAGACAGGAACGAAAAGAGAAGGCCAAAA A A A A C C A G A A G G G GAGGGGGGGAAAAAAAGAAGGAGAACAAA AAAGGAGAGAGGAGAAAAGACCGGGGAAAAGGGGAGGAAAAG GGGAAACCCCAACCGGAAGGAAGGCCAAAAAAAAGGAAAAAA AACCGGGGAAAAAACCAAGGCCCCGGCCAAAAGGAAAAGGAA A AAAAAGGGGAACCCCGGCCAAGGAAGGGAAGGGGGCCAGAG GGAAACCCAAGGAAGGAACAAAAAGGAAACACAGGGAAAAGAG G G A A C C A G G A G A A G A A G GCCGGGAGGAAAAGGAA GGGGAA GA A G G G G G A A A A G G G GCCAAAATXAAGAGGGAGAA GA GAGAGCC G G G A G G A C A C G GAC $\mathcal{A} G C C G G G G G G G G A A G G G G A A C A A A G G A A$ AC G G G G GAGGAACCGGAAGGAACCCCAAGGGAAGCCCCAAAA AAAAGGAAAAGGCCGGGGGGGGAAAAGAGGGGAAAAAAGGGA
 $A G G A A G A A G G A A A A G A G G G G G G A A A G G A G G G A G G A A A A G G A A$
 G G G G G G G G A G G G GAGGAGGGAAAGAAGGAAGAAAAAGGAGAA G GAGAGAGGGGAAAGGAAAAGGGAAGGAAGCCAGGAAACCAG G GCCAGAGGAAGGGCGAGGGGGAAAGAACCGGGAAGGGGAAG C CAGAAAAAAGAGGGGGGAAGGACAGCCAAGAGAAGGAAAAA A G G GAAAAAACCACCCAACCCAAAGAGGAACAAGGAAAATAG A G G G G GA $\operatorname{G} A A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A A A A A G G A A A G A T G A A G A A G G A G G G$
 AGAGGAAGCCGGGGAAGGAAGGAAGGGGCCAAAAGGAAGAAA A A A A A ACCCCCCCCAAAACCCCGGGGGGAAAAAAAAGGAGAA A A G G G G C C G G G G A A C C G G G G A A A A $\mathcal{A} G G G G G G G G G G G C C G G G G$ C CAAAAGGAACCCCGGAAAGAAAGGAGCAACCCAGGAAGAGG A A G G G G A A $G G G A G G C C G G A A A A G G G G A A A A A A C C A G G$
$G C C G G C C G G A A G G A G G G G A A A G G C C G A C C A A A G G G A A A A G G$

GAAAAGCCGGAAGAAAGGGGGGAAAAGAAGAGGAGACCGGGG
 A GAGGGGGGAGGCCGGAAAGGAAAGGGAGGGAAAAGAAGAGG A G G G G G G G G G G GAAAAGGGGAAGAACGAAGCAA GAGCAGACC ACAGGAACGGGGATGGGAAGAAAAAAGGGAGGGGACGGACAA A A G G GA $\operatorname{A}$ GAA $A \operatorname{A} A A A A G G G A A G G G A G A A A A G G A G C C A A A A A A$ G G G A G A A A G G A G G G G G G G G G G G G G G G G G G G A A G G G G G G A G G G AA $A G G G A A A A G A G G G A G G G A A G G A A G G A A A A G G G A A G G A G G A A$ A A G G G G GAAA $A \operatorname{A} A A A G A A G A A A A A A A A G G C C G G A A G G G A A A G G$ $C \subset A G A G G A A A A A A A A A A A G A G G G G C A G A C C C C G G A G A G G G A G$ G G GAGGAACACCAGGGGGGGAACCCCAAGGGGAGAGAGAAAG G GAAGGAGAGAGGAGGCCAAAAAGAGACGAAGGAAAAAGAAA A G GAA A G G A A G G G G A A A A G G G GAA A GAACCGGGGAAA GAAAA $A G C C A A A A A G A G G G G A A A A G G A G A G A A A A G G G A A A A A G A G A A$ GAACAGGGGGGGGGGGGGCAAAAACCAAGGAAAGCAGGAGAG G GAAAAGAAAAAGGAACCAGAAGGAAGGCCGGGAACAAAGAC A G A A G G A C A A A A A A A $\mathcal{A} G G G A G G G G G G G A A A G G G G G A A A C C A A$ A A G G G G G G A A G G G G C A G G G G A A G GCCAAGGGACA G GAC G GAA ACAAGGAAGGAGGGAAAAAACCGGAAAAGAAGCAA GAGGGGG C C G G A A G G A A A A G A A G GAAAGGGAGGAGAAGGGGGAAAAAAA A A G GAA A G G GCCAGAGGAGAGGGGGAGGAGGGCAAGGGAABA G G G G G G G G A A G A A G G G A G G A A G GAGAGAGAAAAAA A GA G GAA A AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A C G G G A G A A A T G G G A G G G G A A A G A C A C G G$ G G A A A A T T GACAAATTGGAAGGGAAAGCGAAAAAA GAAAA G G $A$ A A G G A GCAGGCCGGAGGGAAGGAGAACCGAAAGACCAAACAG CA $\operatorname{l}$ GAA $A \operatorname{GGAA} A G G A G A A A A A A A A G G G G G G A A A A A C A A G G A A$ C CAAAAAAAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAACA GAAGAAAAAAGGGGAAGGAAAGAGCGCCAAGGATAAACAAAG A GAAAGGGGAAGGAGGAACCAGAAAGACGAAAAAAAGAAAGG $G G A A A G A A A A A A G G A G A G A A A A A A A G C C C C A A A A G G A A A A G G$ AACAACAAAGAGGGGGAGATAAAAAAAAATAGACAAAAAGBA AAAAGGGAACGAGGGAGAGGAAAAAAAAAAGGAAGGGGGGGG A A G G A A G G G GCCGGGGCCCCAAAAGGGGAAGGTTAAAAGGGG
 G G A A G G G G A A C C A A G G G G A A G G A A G G G G A A G GAAC C T T A A G G GGCCAAAAGGAACCAAAAGGAAGGAAGGAACCAAAAGAAAGG AACCGGGGGGAAAAAAGGCCAAAAAAGGAAAAAACCGGAGAA GGCCAAGGAACCGGGGAAGGAAGGAAGGCCGGGGGGAAAGGG G G G G G G A A A G G A G G A A A G G A A A G G G G A A G A G G G G G G G G A A G G G GAGAAAGAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGB AAGGAAAACCCAGAGGGGGGGGGGAAAAAAGGGAGGGGAGAA A GAGAACCGGAGGGAGGGGGAGAGGGGAAGAAGGGAACAAAG G G G GCCGGAGAAGGAGAGACAGGAAAAAAGAGGGGAAGACAC G GAA A GAAGGCCAAGGAACCAACCGGGGAAAAGGAAAACAAA $C \subset A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G A$ A G G G A A G A A A A GACAGAGCCGGGAAAGGGGACAA GAAC G GAA
 G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAAGAAGGGGG
 GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAAGAT CAACAAGAGGACAGGGCAGGAAAAGGCAGGCCAACCCAAAGB

 A A G G G G G G G G G G T T A A A A G G G G G G G G G GAA A G G G G G G G A A A A A A G G G G G G G G G GAAAAAAAAAGGAAAAAGCAACAGGGAACCAC A G A A A G A A A A C CAA $A \operatorname{GAAAGGAAGAAAGACGGGCCGGGGAAGG}$ C C C A C CAA G GAAAAGGAAAAACGGGGAGAGACAAA GAGAGGA GAAAAAGGCCGGGGGGGAGGAAAACCAAGGCCAAAAAGAAAA A GAAAAGGAAGAGAAGGGAGGGGGACAGAAAGGAAGAAGGGG

GACAAGGGGAACGGGGGGGAGGGGAGGGCAAGAAGGAGAAGG CCAAAGAGAAGGAAGGAAAGCCGGAAGGGAGAGGGAGAAGAA A A G GAA A G A A A A A A A A CAA G GAACAGGAAA GAA G G G G G G G G G A $C \subset G G A A G G A A G G A A A A T T G G G G A A A G G G G G A A G G G A A G A G A G$ GACCAAGAGGGGCCGGAGGGGAAAGGGGCCAGAGCCAGGACC C C A A A A G G G G G G G G A A A A G G G G A A A A A G A A GAGGGAAAA A A G A G A A A A GAGGGACAATACAGGAAAGGCCGGCCAAAAAAAAGG A G G G A A G G A G A G G G G GCCGGGGAGTAAGCAAAGAAACCAAGA G G G G G A C A G A A GAA $A \operatorname{AGAAGAGGAGAGGGAAAGAGGACCAAGG}$ AACCAAAAAGAGAACCGGGGGGGGAGCCGAGAAGGGGGGGAG G G G GCCGAAGAGAAAAAAAGAAGACCAGAGGAGAGAGAGAGA GAAAGGCCAGGGGGCCAAGAGGAAAAGGGATTAAAAAAGGAA A A $\mathcal{A} G A A G G G G G G G G G G G G G G A A A G A A C C G G G G A A G A A A G G G G$ A A G G G A G A GA G GAA A A G G G CA G T T A A A A A GAA A A A A G G G A A A A A G G G G A A A G A A A A G G GAA $A \operatorname{AGGAGGAGAGGCCGAAAGGAGAA}$ AGGGCCGGCCCAAAGAGAAACCACGGAAAAAAAAGGAGAGAA A A A A A A A A C C G G G G GAGGGAGGAAGGGAGGGGGGCAGAAC G G G GAGGGGAGAAGAAGGAAGAACAGAGGGGGAGGGCCGAAAAC ACGGAGGGGAAAGGCCGGGGGGAAAGAAGAGGCAGGCAAACAC GAAGTAAAGGGGAGGGACGGAAGGGGAAAAAAGGAAGAAAAA A A G G G GCCGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAGG AAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGGAAGGAGAA G G G G G G A A G GAAAAGGGGAAAAAAGGAAAAAAAAAAGGACAA C CAA $A \operatorname{GAAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCGGAAAA}$ A A G G G GCCAAGGAAGGGGCCAAAAGGAAAAGGAAGAAAAAGG G GAAAAGGCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGGG G G G G G G G G G G G G T T A A G G G G G G G G A A C C G G G G G G G G A A A A G G A A G G G G G G G G G G A A A A A A G G G G T T A A A A A A $\mathcal{A} G A A A G G G G G G G$ A A T TCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAGG AAAAGGGGAAAAAAAAGGGGAACCAAAAAAAAAAAAGGAAGG G GAACCAAAAAAAAAAAAGGAAGGAACCAAGGGGAAGGAAAA $C \subset A A C C A G C C A A A G A G A A G A G A A A G A G G G A G G G G G A A G A A C A$ GAAACAAGAGAAGAGGGGCCGGCCGGGGGGAAAACAGGAAGG A GAGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGGACAAGAG AAACGAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAAAAAAA GAGGAAGGAAGGAAGGGACAAAAAAAGGCAAGCACCCCAAAAA G GAAAGAGGAAGAGAGAGCAGAAAGGAAGGAAGGGGAAGAAA $C \subset A A A A G G G G A A G G C C A A A A A A G G G G A A G G G G A A G G G G A A G G$ G G G G A A G G G G A A C C G G A A A A G GCCCCAACCAAAAGAAAG GAA
 AAAAGGAAAAGGAACCGGAAAAGGGGGGAAGGGGGGCCAGAA G G G G A A C C G G G G G G G G A A G G G G A A G G A A C C A A G G C C G G A A G G AAAAAAAAGGGCACGGGGAGAAAGGAGGGAGAGGCAGGAAGA GAGAGAAGGGAGAGAGAACCAAAACCAGGGAAAGGAABAACC $A A C C G G A A A G C C G G A T A G A A G A G G A G A A A G A G A G G G A A C C B G$ GA $\operatorname{G} A A A A \operatorname{A} A A A G C C G G A A A A G G G G G G G G G G A G G G G G C C B G B A$ A G GAA A A ACAA GCCAAGGAAAAGGCCAAAAAAAAGGGGCCAA $C A C C G G A A G G A G A A A A A A C C A A A G A A A G A A G G A G A A A A A A A A$ AAAAGAGGAGAAAAAAAAGGAGAGCCAGCCGGAGAGAACCAA GAGAAGGGGGAAAAAAAACCAACGGGAGGGAAAAAAAGAGGG CAAAAAGAGGAAGGGGAAAGAGGGAAAAGAGAGGAAGATAAA
 C C G A A A A G G G G G G G C A G G G GAAAACGGAAAGGGGGAGAAAAC C $C \subset A A G A G G C C A G C A A A G G A A A A C C A A A A G G C C A A G G G G G G G G$ AA G GAATTAAAAAACCAAAAGGAAGGAAAAGGGGGGCCGGGG C C A A A A G G G G A A A A A A G G G G G G A A C C G G G G G G A A A A G G A A G G G G G GAA $A \operatorname{GAAAGGAAAAAAAAAACCAAGGAACCGGAACCGGCC}$ G G T T A A G G A A A A G G G G G G A A G G A A G G G G G G A A G G G G A
A A A A A G GAA $A \operatorname{A} A A G G A A G G G G A A G G C C A A G G G G G G A A G G G G$

A A A A A A G GCCAAGGAAAAAAAAGGGGGGGGGGGGAAAAAAAA C C G G G G G G A A A A $\mathcal{A} G G G A A C C G G G G G G G G G G G G G G A A A A A A G G$ A A C C G GC C G G G G G G G G A A G GAAAA A G GAAGGCCGGC CAA G G G G AACCGGAAAAGGAAGGAAGGAACCAGTTGGGAGGAAGAAAAA AAA A A A A A A A G GAAAA A G G GAGGGAAAAAAAAAA G A A GA G G GA CAAGGGGGAAACAACAAGTAAAAGAAAGGGGGAACCGGAAGAG GAGGGAGAGAACCCGAGACAGGGGCAAAGGTTAACCCCAAAA GGGGAAGGAGGGAACCAAAGAAAAAAAAAAGGGAGGCCAGAC A A A G G GAGGAGAAGAACAAAAAAAAAGGAAGGAACAAACAAA $G G C C G G A A A G G A G A A G G G A G A G G G A A G G A A C C G A G G A A G A G G$ G G G GAAAGGGAAGGCAAAACGGACGGCCGAACAAGGAAAABA $A G C C G A G G A A A A G G G A A A G G A G G G A G A C G A T T A A G G G A A A A G$ A GACAAAAGAAAGAGGACAAACGGGGAAGGAAGAGAGGGGGA G G G G G GAAAAAAAAGGAAGAAGGGAAAAAAGGGGGAAAAGAG GACACCAATTGACCCGATCCGGGGAGACAAAACAGGAAGGAG CAAAACAAAAAGAAGAGGAGAGCACCAGCAAGATCCGGAAAA $A G C C C A A A A A C C G G G G G G G A G G G G C C G A A A G G A G C C G A A A A A$ G G G G G A G G A A G G A A A GAGAGCCGGAAGGAAGGCCAAAAAAGG $G G C C C C A A G G A A A A G G G G A A C C A A G G A A A A G G G G G G A A A A A G$ A G G A A A A A $\mathcal{A} G G G G G G A A G G G A G G A A A A G G G A A A A A A G G G G G G$ C C G G G G GCAGAAGGAAAAGGAAAAAGAAGGAAAGGGAAAAAG G G A A G G G G G G G GCAGGCCGGAGGGACACGGGAAGAAAAAAAA AGGGCCGGAAGGAGGACCAACCAGAGGAAAAACCAACCAAGA G G G G A A G G G G C C G G G G C A T T G G A G G G G GAAA A C G G G G A A A A A A AAGGAACCGACCGGAAACGGAGAGAAGAAAAAGAAAAAGACC GACCAAAAGAAAAGCAAAAAGGGGGAGAAGAAGAAAGGAGAG
 AC G GAGAAAAAGGGAACCGGAAGAGAGAAAAACCAAAAAAAG G G G GAACCAAAAGGAAAAGAGAAGCAGAGAGATTAACCAGAG ACAAGGAAAAAAGGGAATAAAGCAAAAGAACAAGGAAAAGAA AAAGGACCAAAAGGAAGGACCCAAGAGAGGAAAGGGGAAABG G GAAGAGAAAAAGGAAGGAAGGAACAAAAGGGAAAAGAGGAG A GAAAAGGACGGAGAGGGCAGAGAGAAAAACCAGGAGGAGAA
 $G G A C T T A G A G A A G G C C A A A G A G A A G G A A G A G G G G G G C C A G A A$ A G A G A A A A A G G G A A A A G G A A G G A A A A G G CACCCCAAA G C C C C $C C G G A A A A A G C A A G C C G G G G C C A A C C G G A A A A G G A A A A G G A C$ G GAGGGGGAAGGCCGGAGAGGACCAAACGGCCAGCGGGGAAA G G G G A A A A A A G G G A G G G A G GA G C A G G A A G G G G A A G G G G G G A A C CAA $A \operatorname{GGAAAAAGAAGGACAAAAAAAAAAAGAAAAGAGGGGAG}$
 G G G G G G G G G G A A A A C C A G A A G G A A A GAGGGGGAACC G GAA G G A A G GAAAA $A \operatorname{A} A A G A G G A A C C G G C C G G A A G G G G A C A G G G C C A G$ G G GAAACCGGAGAAAAGGAAGAGGAAAAAGAAGGAACAAAAG G GAACAAGGGCCGGAGGGCAAGAGGGCCAAAAACGEAAAAAA AAGGCCCCGGAAAGAGAAACGGCACCCCAAAAGGGGAGAGAA A A A A C C A A A A A A G G A A G G G G G GCC C G GCCGGGGGGCCGGAA G G A G G G G G A A G G A A G G G GCCTXAGAACGCAAAAGAGGGGAAA G G C GAAGGGGCCCAACAAGGAAAGGGGGCCGGCAGGGGGGAAGA A GAGAGAAAGGGGGGGGAAAGGAAAGCAAAGGGAAAAGAAAG GAGAAAGGGGGGAAGACCAGAGTAGAAAAGAAGAAAGGAGAA
 G GAAGGCCCCGGAAAAAACCAAGGCGGGAAAGGAAGGGAGGG G GAAAAAAGGAAGACAGGCCCCGACCACGGGGGGAGAGAAGA G G GAAAGGGGACAGGGAAAGCCCCAGGAAAAAACAACAGAAA A A A A CAGGGGGGAAAAGGAGAAACGGAAAGAGGAAGGGAAAA G G GACCAGGAAAGAGAGGGGCAGAGGAAAAAGCACAGGAGGG GAAGGGAACCAAGGCCAGGGGGAACAAAAGAAGGAAAAAGGG A GAAGGGGGAGGAGACAAAAAAAAGGAAAAAAGAGGAAGAAA

A A G G G G G G GAGGAAGGCCAAAAGGCCGGGAGGAAGGGGAAGG $G G A G G A G A A G C C A A A G G G A G G G G A G G A G A A G G A G G G A A A A G A$ G G A A A A A A G GAAGAACAAAGAGCAAACAGAGGAGGGGGAGAC $A C G A C C A A A G A C G G C C A G T T A G G G G G G G G G G A G A A G A G A G B A$ G G GAGGGGAAGGGGGGGGAAGACCGAGAAGAAGGGGGAAGAA A A G GAAAAAAGGAAGGGGGGCCAACCAAGGAAGGAAGAAAGG A A G GAA A G G GAAAAAAAAAAGGGGGGAAGGGGCCAAGGAGAA G G G G G GCCAAGGGGGGGGGGAAAAGGAAAAAAAAAATTAACC G G G G G GAAAGCCAGAAAAGGTTGAAAGGAGGGAAGAAAAAGG AAACGGGGGGGGGGAAAACCAAGGGGGGCACCGGCAAAGAAA A G GAAAAGAGGAACAAAAAGCCAAAAGAGACAAACAGAGGAA A G GACCAAGAGGGGAGAAAACCAAAAAACCAAGGGGAAAAGA GAGGAAGGAAAGGGAAAAGGCAGGGGAGGGGGGGGGAGAACAC
 GAAAAAGACAAAGACAAGAAAGGAGACAGGAAGGAAGGAGGG G G GAGGAA GAAAAGGGAAACAAAAAAAAAACCGGAAGGAAGG A GACAAAAGGGGCCAAGAGACCGGAAGGAAGAAAGGAAAAAA G G G G G G A A A G G GAAAAAAGAAGAAGGGGGAGAA GACAAGGGG AGGAGAGGAACCAGCCAGAAGGAGAGGAAAAGGGCAAGAAAA A GAGAAAAAAGGAAAAGGGGAAGGTAAAAGAGAGAGCAACAA AGAAAAGGGGCCAGACAGAAAAGAGGAAGGCAAGGGAAGAAG
 A GAA A A G GCGGGAACCAAGGGGGGAAAAAAGAAGGGAACCGG G G G G A A A A G G G G G G A A A A G GAAAAAGGAGAGCCGGCCC GAA G G CA $\operatorname{G} A A G G A G G A A A G G A A A G A A G G A A A C C A G A C C C G G A A G G G G$ A TAGAGGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGG CCGGGGAGAAGAGAGAAGAACCCAGAAGAAGAGGAGACGGCC AAAAAGGAAGAACAAGGAAAGGAAAAGGAAGGAAAACC G GAA AACCCCGGAAGGAAAACCAACCGGGGGGGGAAAACCAAAAAA G GAA A GAA A G GCCAAGGGGGGGGGGGGAAGGAAAAGAAAAAAG AA $\operatorname{A} G A A G G A A A A G G G G G G C C A A G G G G A A G G A A A A G G C C G G G G$ GAAAGGGGAAAAGGCCACGGAAGGCCAAGACCGAGGGGGGGG G G G G G GCAGACCGGCAAAGGGGGGGAAAAAAAAAAAAGAAAG G G G GCACCAAGAGAAGACATAGAACAACAAAAGGTTAAATAA A A A A A A G A A A A A A A G G GAA A A G GAGAGGAGCAGAGGAAAGAA AAAAAGGGGAAACCGGCCAAAAGAGGCCACGGGGAGAAAAGG AAAAGGGGGGAAAATTGAGGAGACAGAAGGCCGCCCGGCCGG A GAAGGAGAGCGCAAAAGGGTTCCACAAAAAACCCCGAAGAA

 A GAAAAAAGGAAAGAAGGAAGGAAGGGGAAGGAAGGCCAGAA C A G G A A G A C C G G A A G A G GCC G G G G T T G G C C G G A A C C G G A A G G A A A A ACAAAAAAAAGGGGAAAAAGAGAGAAAAAAGAGGGGAA T TAA A A A A A G G A A GAAGGCGAGAAGGGAAGGAAAAAAA G GAAA
 A G A A A A GAGGAAAATACCAAGGAGAGAAAGGAAAGAAAAA GG A GTTGGAAAGAAACCCGGCCCAGAGGGGGGGGGGGAAAAGAA GAGGGGAGGGAAAAGGAGGGGGGAAAAAGGAGGGGAAAAAAA A GAGGAGGGGAAGGGGGGAAAAAAAAGAAGACAAGGCCGGGG A G GAGGCAAAGGAAGGAACCAAAGGGAAACAACCGAAAAAGA G GAATTAGTTAAAAAAAAAGAAAAGGAAGGCCAAGGAATTAA
 A A A A C C A A G G G G G A GACC CAA $A \operatorname{A} G G G G G G A A A A A A A G G G G G A C$ GACCAAAAAAGGCCAAGGCACCGGGGAAAAGGAACCGGAAGA A A A A G G GCGAGGGAAAGGGGAAAAGGGGGGGGAAGGAAGGAA CAGGAGAGAAACGAGGAGGGAACCAGCACAAGCAGACCBGAA G G G G C C A A A G G G G G G G A A A A G G A A G G G G C A A A A A A A G G A A G A GAGGGGCCGGGGAAAGGGCCCCACCAAAGAAAAAGGG
GCAGAAGGGACCAAGAGCCGGAAGGAACCAACCCCCAGCAG

AAGGAAGAGAAGAAAACCGGGGGGAAAACAAAAGCAGAAAGB G G G A A T A A A A G G G A A G G G A A G G A A G G G G G GAAAA A A C CAAAA
 CAAAGGAAAAGGAGAAAATTAGAGACAGAAAACCGACCACAG GACCACAACAAAAACCGAGAAGAAGGGGAAGGCAAGAAAAGA G GAAAAGGGGGAGGGGGGAAAAAAAAAACCGAGAAAGGGGAG AA $A$ A $\operatorname{A} G A A A A A G A G C C A A A G G C G G G G A A A A G G G A G G A A A A A A$ AAAGGAAGACAAGGAAAAAAGGGGCCGGAAGAGGAAACACAG A GAGAAAACCAGCCGGAGAAAAAAAAAACCAAGGGGAGACAG AGGAAAAGAAAGCACAGAAGGAGGAAAGGAAGGGGGAAGGCA A A A A A A GACCCCAGGGGGGGGGAAGGGAAGAAGAAAAGGGGG C CAA $A \operatorname{GAAAAAAACCAAAAGGGGAAGGGGGGAAAAAAGGACAA}$ C CAGGGAACCAAGGGGAAAAAAAAGGGGGGGGAAAAGGAAGAG G GCCAACCGGAAAAGGTXAAAAGGGGGGGGGGCCAAGGAA G G G G G G G G A A C C G G G G G G G G C C G G G G G G G G A A G G G G G G A A G G G G A A G GAAAACCGGGGAAAAGGAAGGGGGGGGAAAAGAAACAAAA $G G C C T T G G G G G G A A G G A A G G A A G G G G G G A A G G A A G G A A A A A A$ A A A A A A A A A A G G A A A A G GAA $A \operatorname{AGGGGGGGGGGGAA} G G A G A A G G$ A A A A A A G G A A A A G G A A G G A A A A A A A A G G G GGGGGG GAAAA G G G GAA A GCCGGGGGGCCGGAAAAAAAAAACCGGAAGGGGAAAA T TAAGGGGGGCCAAGGGGGGGGGGAAGAAGGGGGAACCAAAA G GAAAAGGAACCGGAGAAAAGGCCAACCAAAAAGAAAGAATT A GAAAAGGCCAACCAGAAGGGAAAAGAAAGGAAAAGAACAAA A A G G A A A A G G A A G G A A G G A A G GAGGGGGAAGGAAAAAACAAA
 G GAGCAGAACAGGAGATTGGGGAAGAGGAGGGA$A A A A G A G G G$ A A G GAGAGGGAAAGAAAAAGGGAGAGGAAGCAAAAACCGGGG
 A GAACCCACAAAGGAGCCAAAAAACCAAGGAAAABAAAGGGG G G G GAAGGGGGAAGAGCCGGAAGAAAAAGGAAAGGGAAGAAT A A A A G A A A A G A A G A G A A A G G C A A G A G G A A G A G A A A TAA A A A G G GAGAAAAGGAAAACCGGAAGGCCAAAACCCCGAAAGGAAGG A G GAGGGAAAGGGGAGAAAGACGGCCAAGAAAAAAAAGAGAG A A G GAACCAAGGAACCGGAAGGGAAAAAACAAA GACGGGGGG A A A A C CAA $A \operatorname{AACCGGGGGGGGGAAGAGGAGGGGGGAAAAAAAA}$ A A G A G G G A G A C C G A G G G G G A A C G G A A G G A T C G G A G A GAC C C C CAAGCAGAGAAGAACCAAGAAGAAAAAGAAAAGGAGAAGAAA AA $A \operatorname{GGG} \operatorname{GA} A \mathrm{G}$ GAAAAAAAAGGGGAAGAAGGAGAGGGGAAAAAA $G G A A G G A A G G A A A G G G A A G A A A A A A A A A A A A A A G A A G G G G G G$ A GAGGGAACCGACAGGAAGAGGAATTTAAAGGAGAGGACAAA $A G C C G G G G G A A G A G A A G A G G A A A G A G G G A A G G A A A A C C A G A G$ ACTAAAGAGAGAGAGGGAGGGGGGAAGGAAGGAAGAAAAACC CAAGGAGACCAGGGAAGGCCACAGAGGGGGGGAAGGGAAAAA G G GAGAGGAAACGAGGGAGGGGGGAAAGCCACAGGAAACCGG T T A A G A G A A G G G G G G G CAACGGGGAGGGACAGAGCAAA GGGG G G A A A A A A A A A A G G A A A G G G G G GCGAAAAACCACA GAACCTA G G G G A A A G GA G A A G A A A G G G G A T T A A A A G GA GA GA G G A A A G G A GACGGGACGAAAAGGAGAGGAGGAAGGGGGGAAGGAAGGGA A A G G G G G G A A G G G A GAGAACGGACGAAAGGGGAGGGAAATAA C C G G A A A A C C G GAA $A \operatorname{GGGGCAGGGGAAAGCCAAGGAAAGAAGA}$ CAGGAAAAATAGGGAGAAAGACGGAAGGGAAGGGGAACAGAA GAAAGGGGCCGGGAGGAGGGGGCCCAAAGGAAGAAGGGAAAG G GAAG $A$ GAAAAGGCCGGAAGGAGAGGGAAGGGAAAGAGGAAAA C C G A G G GAAA $A \operatorname{AGGAAAAGAAGGAACCGGAAAAAAAAGGCAAA}$ A A A A A A GAAAACAAACGGAAGAGGGAAAGGGAAGAAAAGGAA G G G G G G A C G G A A G G G A G A A G C C G G G G A A A C G G A G A G G G A A G G

 G GAAAAAAGGAACCAGAAAAGGGGGGGGCCGGAGGGAGAGAC

AGCCGGGAAGGGACGATTAAGAACTAAGGGAGGGAGGGACGG A A A A A A G G G GCC C A G G A A G GAGGGGAGGAAAGAAAAAA G A A A A
 G GAGCCAAAAACCAAGAGAGCCAACCGAAGGGGGAGAGAGAA G G G GAGACGGGAGGGAGGGGAGAAAGGACCGAAAGGGAAAAA G GCCAGAAGGGGAAAAGGAAGGAGAACCGAGGAAAAAGAGAC C G G GAGACCCAACCAACAAAGGGGAACAGGGGGGGGGAAAAA A A A A A A ACACAAAAGAGGAAAAAGCCGGAAGAAGAGAAGAAA A A G GAA $A \operatorname{GAA} C \subset G G A A A G G A G G A A A A G G A A A A C C C C A A G G A A$ G G G G G GAAGAGGACGAAAGGAAGAGAAGAAAACCAGACAAAA $C \subset G G G G G G A G C A C A C A A A C C A G A G A A G G A A A G A A A A A A C G G G$ CAAC GACAGGGGAAGGAGGAAAAAGGAAGGAAAAGEAGCCGG C C C C A A G G A A G GA G G G G A G G G A A GAGAGGAACAACCAGAAG G
 A GAAAGGGGGAGGACCGAGGGAGGGAGAGGAAAAAAAACAAA G GCCAAAGAAGGGGGGGGAAAGAAGGAGGAAAAGAGAAAAAA
 G GAA A GAACCAAAAAGGAAGGAAGCCAGGGGGCAGAACAGCA CAAGGGGCACGGAAGGGAGAAACCGGGGGAAAAGGGAAAGAG A G A G G A G A A G G G G A A G G A G A A G A A A GAAAAGAGGCCAAAAA G AAAGAAGGAAGGAAAGAAAGAAGGAAAGAGAAGGGGACAGGA AACACAGGAAGAAAGGGAAAAAGGGGGGGGAAGAAAGECCAG A A T T C C G G G G A C A G A G G A G A G G G A G G A A T T A G G G G GA G A G G G A A G G G G G G G A G G A G G G G GCCGGAAAA GAAAAC A A A A GA G G G G A G GAAAGGGAGAGAGGAAGCGGGAAAAGGCCGAAGAAGGAAAG A A GAGGAAGAGAACAGGAGGAAAAGGAGGGGGAGAAGAAAAG $A G C C G G G G A A G A G A A G A G A G A A G G G G A G G G A C A A A A A G G G A A$ $A G A G A A A G A G A G A A G G G A A G G A A G G A A G G A G G C A G G G A G A A A$
 $G G A A A A A G G A G G C C A A A A A G G A G G A A A G G A G A G G A A A A G G G G$ ACAC $\mathcal{A} A G G C C A G G A G G G G G G G G A G A A C C G G C A A A A A G G C C G G$ A A G G GAAGGGCACCGGAAGAGAGGAAGAGAGGGACCAAGAAC C C G GAAACAAAAAAGGAAGGAAGAAAGGGAGGAGAAAGAGAA $G G A A C A A G G A G G C C G G A A A A A G G G G A A G G G A A G A G G G G A A A G$ ACGGAGAGGGAACCCCAAAAGGGGAAAAGGAAAACCGGCCGG C C A G A T G A A A G A C A C C G G G A A A G A A A G G T A G G G G C C A T G G G G G G G G GAA A A G G G G G A A G GCCAAAGCCAGGAAAAATTAAAAAA G GAAGGAAAGAGGAAAAAGAAAGGAAAAAAAAGGAACCCCCC
 G G G G A A A A A A G GAAAAAAAAGAGCCACCAGGCGGGGGAAGABA G G G GAAGGGGAAACAGAAAACCAGGGAGACAAAGAAAGAAGA $A C G A A A G G G G G G A A G G G G C A A A G G G A G A A A G G A A G G A A A A G A$ AAGGAAAAAGGAACAAAAAGAAAGCAGAAAAAAGGAAGACAG G GAA $A \operatorname{GAA} A A G G A A G A A G C A G A A A G G G G G G G G C C G G A C A A G G$ $G G A A A A A A A A G G G A G A A A A A A A G G A A G A G G A A A C C C G G G G G G$ G A T T G A G G G G C C A G A G A A A A C C G G G G G A A A G G G G G G G G G G A G A A C C G G G G C C C A A A G A G A A A G G G G G GAAAAAAAAAGGGGGAAA G G G G G G A A G G G GAGGGCCGGAAAACCGAAAAAGGTTGGCAAA CCAAAACCGAAAGAAAGGAAGGTAAAGGAGAAGGAAGGAGAG
 A G G GCCCCGGGGAAGGGGGGAAAAAAAAAAAAAAGGGGAAAA $G G A G A G A G G A A G G A G G A G G G A A A A G G G A A G A G A A A A C C A A A A$ A G A G A G A G C A A A A A G G A A G G G G A A G G G G G A G G A A G G G G A A A A G GAAAAAAGGAAGGGGGGGGAAAGGGAAAAGGAAAAAGAAAA A GAGGAAAAAACGGGGGGAAAGAAAACCAAAAGGGGGAAAGG G G A A C C A A A A A A A A A A G GCCCC GAA GAAGGCAA GA GAA G G G A A GAAG GA $A \operatorname{AACGAGGGGAACATTAGGAGGAAGAGGAACAGAAA}$ AAAAGGGGAAAAGGAACACCGACAAAGAAGCCGACGC
CAAGGGGAAGGAACCGGGGGGGGGGAAAAGGAAGAAAAAAG

G GAGAACCGGAAAGAGAGGGAGGAAGAAAGAAACAGAAAGAA G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A \operatorname{A} A \mathrm{~T}$ TAAAAAAGGGGGGGAAAGGAGAGGAA AAAAAAGGGGGGAATTACCCAGGGAAGACCAAGGGAAGAACA A G G GAAAACCAAACAAGGGAAAAAAAAAGGAAAAAAAACAGG G GACAA $A \operatorname{AAAAA} A A A G G G G G G A A G G A A A A G G G G G A G A G G A G G G$ G G G G G G G GCCAAAAAACCGGGAGGGGAAGGAAAGGAAGAAAA GAGGGGAAGGGGGGCCAAGGAGACAGAAGGGGAGAGGGCCGG AACCGGAAGGAAGGACAAGAGGAGCCGGAAAAAAGGAAAACC G G TAAA A GAAAAAAAACAAGAGGAAGGGAAACAAGAAAAACC AACCAAACATAGAGAAGGAAGGAACCAAGGAAGGAAGGAGAA A A GACAGGGACCCAGGGGCCGATAGAAAGGGGCCAAGAGGAA A A G A A A G A A G G A A G A A GAA $A \operatorname{AGGGGGGCCGGAAGAAGGGAAAC}$ AAAGAAGGGGAAAAAAAAAAAAGGAAAAGGGACAAGAAAA GA AAACGGAAAAAAGAACCCAGGAAGAAGGAAGAAAAGGGAAAC A GAA A A A A G G G G G G A A A GAGAAGGAAGAAAGAGGAAA GA GAA AAAAAGAGGACCGGGAAGAAGAGGAGAGAAAAGGAGAAAAAA G G G G G G G G CA $A \operatorname{GGG} G \mathrm{G}$ GAAAACAGGCCAGGAGGGGATGGAGAA A A GAA A G G A G G G A A G G G A G G A A G G G G G G A A A A G G A G G G A A A $G$ G GAGGGGGGGAACCAGGACAGGAAAGGGAAAACAGGCAGAGA G A A A A A A A A A A C A A A A A A G G A A A A A GAGGGAGAGGGGGA GAA GCAGC GAGGGAAGGGAAACATAAAGGAGGGAGGACCAGA GAA G GAAGACCAAAAAAGGAAACGACCGGAAAGGGTTAAAAGAAA AAAGGAGAGACAGACAAATAGAGGGGAAGGGACAGGAAAAAA A A A A G G A A G G G G G G A A $\mathcal{A} G G G A A A A A G G G A G A G G A G A A C A A A G$ C CAAGGAAGGAGGGAAGGACCCAAGGGGAAGGAAAAGGAAAA GACCGAGGGGAAGGGAGGATACGGGGAACCAATAGGGGGGAG G G G GAAAAAGGGGGGGAAGGAGGGAAGACCCCGGAGAGGGAG GAAGCCAGAGAGGGGGAGAAGGCACCGGAAAAGGGGAAGGCC AA G GAGGAAAAAGACCACGGAGAAGGAAAAGAGGGAGAGGAA AAAGGACAAGGAAAGGAAAGAACCAGCAGGAGAAGAAGAGAG A A A G A G A A A A A A G G A A A A G G G G GAAA A C A GAAAA A G G G G G G G GAGGGGGGAAGGCCAAAGAGCACAAAAAAAGGGGGGAAGGGA G G GAGGACAAAGGGAAGAAACCACGAGGGGAAGGGGACACAG A G A A A A G G A A A A A G A G A A A A A A G GA GAAAAAACC G G G GA G C C C CAAACGCCCAAGGAAGAGGAAGGAAAAAAAAAGGAAAGGGG G G C C G A A A A G A A A G G G GACCCCAGGGAAACAGAGGGGGAAAA ACGAACAGGGAAAAAAAGGGGAAGAGAAAGAAGGATAAAAAG G GAGGAAACCGGGGGGACGGAGGGACGGGGGGGAAGAAAAGA
 $A G G G G G A G G A G G A G A G A A A A G G A A A A A G A A G G G A G G G A A A A A$ GAAAGAGAGAAGAGGGAAGGAGAAAAGCAGAAGAGGAGGGGG GAAAGCGGGGGGAAGGAAAGGGCCAAAAAGAGGAAAAGAGAG GACCGGAAGAAAACCGGGAAGGAAGGGGGGCCAACCGAGGAG A A G G A GAAAAGAGGGACCGGGGGGAAGGAAAACGGAAAAACC A A G A G A A A A C A A G A A G A G G GACCCAGCCGGAAGGACGA G GAA G G G A G A A G G G A A G G G A G A A G G G G G A A GAA A A A A G A A A G G G A G C C A A G G G G A A A GAGAGAAGGAAAGAGGGGGAGAAAACAAAA G GAACAGAAAAAGAGGGCAAAACAGAGCAAAGAAAGGAAGAAA G GAAAACCGGAAGAGGGGACAAAGGGAGAGGGAGGGAAAAAA G GAGAGAAATGGAACCGGACAAAAGGGGGAGAGAAGGGGGGG GAGGAACCAGAGGGAAAGGAAGAAAAAGGGAACAAGGGAGAA AAAGGCGGAAAAGGGAGAAAAGGGGGACAAAAAAGGAAACGA GAGGAAGGCCAAGGAAAAAGGGAGGGAAGGGGAGGAGGBAAA GAAGCAACAAAGGGGGGGGAAAGGGGCCACAAGAGAAGAAAG A GAACCAAAGAGAAGGCAGAAAAAGGAAGGAACCAGAAAAAG G GCCAGGGGGGAGGGGAAAAACGAGGGGGGAAAAAAGGTTAA
 $G G A A G G G G C C G G G G G A G G G G A G A G A G A G A A G G G A G A A A A G G G$ G GAAAAAGGAAGGGAAAAAGGGAAAAAAGCGAGGTTAAACAA

ACGGGAGGGGGAAAGAAACCAGGGAAAAGAAGAAGGGGAGAA G G A A A A C CACAA $A$ A $A \operatorname{GGGGGGCCCCCCAAAGCGAACAGAGCGA}$ G GAGGACCGGAGGAGAAAAGAACCGGAACAGAAAGGAGCCCC GAAAAAGGAAAAAGAGAAGGGGGGAAGGAAAACCGGGAAAAA G G G GAA A G G GAACCAGCCTTGGAAGGAAAGAGGAGGGAAAAA G GAAAA $A \operatorname{A} A A A A A \operatorname{AAA} G G A A A A A G G G G G A G G A A A A A C A G G A G$ C CAGGAGAAGAGCCCCGAACAACAGAAAGGGGGGACGGGGGG
 G G G G A A A GCC G A A G A A A A A G G G G A G G C C C CAA G GAC G G GA C A GGCCAGAAAAAAGGGAAGCAGGAGCAGACAGGGGGAAGCCGA A A G G G GCCAAAACCAAAAGAAAGAGGCCGGAAGACCAAGGCC G G A G C A A G T T A G G G A G G G A A G A G G A A A A A A G G G GAA C C G G G A A A A A A A A CCCAAGGAGGGGGGGCCAAAACCAAGGAAAAGGGG G GAAGAAGAGTTGGGGAAGGAAAAGAAAACAAGAACAGAAAA G GAGGGGGAAAGAAAGGACAACGGGGCAGACCGAGAGAGGGG $A C C C C C G G A A G A A A G A G A A C A A A A G A A A C C A G A A G G G G G G A A$ G G G G G G A A C C G G G G G G G G G G G G A C T A A A $\mathcal{A} G G G G G G G G G C X A A$ G G G G A G A A G A A G G G A G G G G G G G G G G G C C G G C C G G G G G G G G G G A A G G G GAA A G G G G GAAAA A G GAA A G C C C C G GAA $A \operatorname{A} G G G G A G G G G$ G GCAGGCCAAAAAAGGCAGGGGGAGGGACCAAGAGAAGAAGG A A G GAAGAAAAGGGAAAGCCAAAAAGGAGAAAAAGGAAAAGG CATTAGAAGGCCGGAGTAAAGAAAGGGAGGGGAAAAGACAAA G G GAGAACGAGACCAGAGGAAAACGAAAGGGAAGAAGGAGAA G G G G A A A A A A G G G G G G A G G G A G A G G A GAAAA A T T A G A GA G A A A GCGGGAGAAAAGGAAGGAACCGGGGAAGAACGAGGAAAGCC ACAACCAGAGAAAAAAGGCAGGAAGGATCCGACCACAAAGCG AGACCCAGGAGGAACCGGCAAAGGGAGGAAAGGGAGGAGAAG G G A A A GAGAGGGGGGGGGAAGGGGGGAACCAAAAGGAAAAGA A A G G G GCCAAGGGAAAGGGGGAGAAACCGAGGCCTTGAAAAA $A C G G A A G G G G G G G G A G G A A A G G A A G G G A A A G G C C A G A G A G A A$ A A A A G GAA $A \operatorname{G}$ GAAAAAGACGGAGAGGGAGGAGAACACAAGGAA $C \subset G G C A A A A A A A G G G G A A A A G A C C C A A A G G G G G A A G A A A C G G$ A A A GAGAAGGCCAGGAGGAAAAGGCCGAGAGGCCAAAGGGAG GAGGAAGGGGGGGAAGGGACGGAAGAGGCAGAGAAAAGAAGA $A G A A G G G G A A G G G G G G G G A G A G G G G G G A G G A A G G A G A A G G G G$ $A A C C G A G G G G A G G A G G A A G G A A A A A A A A G G A G G G G G G A B A A G$ G GAGCCAAAACCGACAAGAAAGAGAAAAAAGGGGGGAAGAAA GGAGCCAAAGGGCCGGCCCCAAACGGCCGGCCAAAAAAGGAG GAAGGGAAGGAAGGACAAGAACGGGGGGAGACAATTGGAACC
 CCGGCCAAAAAGCCGGAAGGGGGGAAAACAGGAGAAAGAGAA A G G A G G G G A A G A A G G G G A A A C C G A A A G G G A G G G A A A G G G G A A AAGGGGCAAAAAGGGGGGGGAAGGGAAGAGAAAAAGAAAGAG G GCA GCAGGGCCCAACAAGGGGTAAAGAAGAGGAGEAAGGGG A A G G G A G G A C A GCCAA G GAGAGAGGGGGAAAAGGGGAAAAAA G GAACCAGGAGAGGGAAAGGAGGAGCGGAAGGAAAAAGAAAG GAAA $A$ A A A G G A A A A A A GAA GAAAAGGAGAGTTGGGGAAAAAA GAGGCCAAAAAAACAAAAGGAAAAAAAAGGCCGGGAACAGAC A A A A A A A A A A GGGGAAAAGGCAACAGAACCAGAAGGAAGGTT A G G GAAA $A$ AA $A \operatorname{AGGAACAGAGGGGGAACCAAGGGGGGGGGGGA}$ G G G G G GAGAGCCTAAATTAAAAAAGGCCAGGAAGGACCAGAA CCAAGAAGTTCAGAAGAAGGAAAAAAGGAAGACCGGAGAGGA GA $\operatorname{G} \boldsymbol{G} G \mathrm{G}$ GAAGAAAGAGAAAGGGGCAGGAGGGAGGGGGAAAAAA G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGCGGGGAAGAGGG G GAACCACAGACAGGAAGGAAGGAAAAGGGAGACGGGAAAAG AAAAGGACCAAGCCGAAAAAGGAGAGAACCGGAAAAGGAAAA A A G G A A A G A A G A G G A G A A A A A G G G A GAGAAAAA A A G G GAA $A$ A A $A G A A G G G G G G G G G G A G C C G G G G G G G G A A A G A A G G A A G$
$G G G G G A C G G C A A G G A G G G G G G G G G G A G A G A A A A G G G A A A G G$

AAAGCCAGGGGGGGACGGGACAAGGGAGCCGGAAAAAAGGAG A A A A C A G A T T G A GAGAGAGGGGGGGGGAAGCCAAAAAAAGAA A A C C G A A A A A A A A GCCA ATTGGAACCAAGGGGAAGGGGGGGG1 AAAGAAGGAGAAAGACCAGAAAGAAAGGGGGGGGAAAAAAAA G G G G G GA $\operatorname{GA} A \mathrm{~A}$ GAAAAGGGGGAGAAAGGGAAAGAGGGGGACAA A G GCCAGGAAAAAAGGCAGAACGAGAGGGGGAGGAAAGAAGAG A G G G G GACGAAACCGAGAAAAAAAGAAACCACGGGAGAAAAG $A G C A G A A T G G A G G G G A G G A C G G A A A A G A C C A A G G A A A A A G A G$
 G G GAGAAGCCCCGGCCGGAAGAGAGAGGGAAAGGGGGGAGAA A A G GAAAGGCGGGGCCAAGGCAGGGGCCGGAAGGGGAAAAAG A A G A $\operatorname{A} A A G G A A A G G G G G A G G G G G G A G G A A A G G A A G A A A A A G G$ G G TA $A \operatorname{GA} A A A A G G A A G G G G A G A G G G G G G C C A A G G G G G G G G G G$ A A G G G A G A A G G A G G A A G G G G G G A A A A A G A A G G A A G A A G A A G G
 A G G GAAAA A A A GAGAAGGAGGGCAAGCAAGAAGGAGAAAGGB G GAA A GA GAACAGGATGACGAAGGGAAAAAGAAGAAGABAAA G G G G G A C A G G G G A A G G A A A GAGAAGGCCAAGGGGGGGGCCAG $G G A G G G G G G G G G A G G G G A A G A G A A G A A A A A C C A A G G A A A G G G$ GGTAAAGGAAAAGGAACCGGAAGGAAGAGAGAAAGGGGGGAA AAGGCCGGGAGGGAAAGAAAGAAGGACCGGAGAACCCCAAAC C CA $A \operatorname{GA} A G A A G G A A G G G G G G A G A G A G G G G G G G A G A G A A G G A A$ $A G G G A C G G G G G G G G A A G G A A G A G G A A G G G A C C G G G A A A A A G G$ G GAGGGAAAGGAAAAAAAGGGGGGGGAGAAGGCCGAAAAAAA G G GAGACCGGCCCAAAGGGAGGGAGGCCAAGAAAAGAGAAGAG G GAAGGGGGGGGAAGAAAAGAGAGCCAGGGAAAAGGCCAAAA AAGAAGACCCGGAAGGTTAACCAACAAGGGGGAAAAAGACAA $A G C C G G A A G A A G A G A A C A G G A A G G G G A G A A G A G A G A A G G G G G$
 G G A A A A A A G G G G G GAA $A \operatorname{GGGGACAAAAAAAAAAGGAAAAAATT}$ C CAA $A \operatorname{GACA} C \subset C A G A G G G A A G G A A G G G G A A G A A G A G A G C C C C$ G G G GAA A GAAAAGAGAGGGGAAAACAAAACAAAAGAAATAGG CAAAAGAAGGAGGGAGGAGGCAAAAAGGGGAGCAGGGAAAAA G G G GAACCAGGGGAAAAACCGGAAAAAAAAACAAGGCCBGGA A A C C A G G A G A A A A $\mathcal{A} G G G G G G G G G A G G A A A G G G G A G A C A G G A A$ A A G A G GAACCCCGGGCAGATGAGGGAGAGAACAGAAAAACAA A A G GCAAAAGCCGGGGTAGGAAGGGGAAAAAAAAAGAGGGGG AAAAGGAACCAAACGGACGAGGGAAGAAGGGGAAGGTTAGCC A A G G G A G G C C T T C C G G C C A A G G G G G G G G G A A G G A G G G G G G A A G G A A A A G G GCCAGGAAAAAAAGAGGGGGAAAAAA GGGAAA G G CAGGGAAAAAGGCCAAGAAGGGGGAAAAAACCGAAACAAGCC AAAGAAGACCAAAAGGAAAAAACCCCAAGGGGGGAAAAAGAG G G G GACGGAAGGGGCAAAGGAAAGAGGAAACCGGGGAAAACA AAAGAGAAAAGGAGAACCAGGGAGCCAAGGAAGAGAAGCCCG C CAG G GAGCCGGAAGGGGCCGGCAGGAAGAACACAAAGACAA C A A A A A A A GAC GAAAAGAGGAACCGGGGAGGAGAAGGGAACA G G G G A G G A GACCCCAAGGAACAAAAAAAAAAAGACCAGGGGG A A G G G GAAAAAGCCAAGGGGTAACAGCCAAAACAGGAGAAAG AAAGGAAGAAGGGGGGCCGAAACACAATGGGGAAACGAGAAA $A G C C A A A A A A G G A A G G A A A G A G G G C C G G G G A A G A A G A C A A A A$ $G G C C G A G A C A A G A G A A C A C A G G G A G G G G A A G G A A T T G G A G A A$ C CAATTGGAAAAGGAAGGAGAAGGGGAGAAGGAAGGGGAAGAG A A G G A A G G A A A A C C A G G G A A GAG $\mathcal{A} G G G G G G G A A G G A A A A G G C C$ AAAAGAGGCAAGAGGAGAAAGGGGAAAGCCAAGGGGCAAAAA GACAAAGGGGGGGGACAACAGACACCGGGACGCAAAGGAAAG GAAGGGGGAAAGAAAGGGAAGAAACCAAGGCAGGGAAACCCC
 GA GAGAAGAAGGGGAAAAAACCAAGGGGAAAAGBACAAAGAAG $A G C G C C A G G C G C A C G A A C A G C C G G G G G G G G A A A C A C A A G G A A$

ACGAGAGGAAACGGGGCAAAAAAAAGAGGGGGGGAAAAGAGA GACCGGGGAAAAAAAAAAGAGAGAGGGGCCGGGGCCCCCAGA
 G G GAA A G GAGCAAAAAGGGGAAGGAAGGAAGGAAGGAAAGAG GAAA $A \operatorname{A} A \operatorname{A} G A A G G G C A A A G G G G A A A A A A A A A A G G G G G G G G G G$ G GAAAAAAGGAACCGAGGAAGGAAGGCCAAGACCGGAAAAGG A A A A C A A A A A A ACA GAAAGGCAACCCGAGGGAAAGAAAAAAA A GAAAGAAGGAAAAGAAGAAAAAACCCCGGAAAGCCGGAAGAG GA $A \operatorname{GGG} \operatorname{GA} A G A A A G A A A A G G G A G G A G G A A G G G G G G G G A A A A A A$ G G G GAAGGGGCAACCAGGGAAACCAAGGGGAAAAAAAAGGGG A GAGGGACTTGGGAGGCAGGGAGAGACAAAACGGAGGAGAGA A A A A A G G G A A A GAAAAAAGAAAAAAACCGAAGAAAAGGAACC GAGGAGACAAGGAGGGAAAACCAGACAGAGGGGAAAAAAACC C C G G G G G G G G G G G G G GAAA A A A A A A G GACCCGGGGCCGGAAAA AACCCACCAGGAGAAAAAGGAAGGAAAAAAAGCCGAAAAAAG G GAAGGGAAACCGGAGAGAAAAGGGGGGAGCCAAGAACAAGA A A G G A A A A A GAAAA $A \operatorname{A} G A A A G G A C A A A A A G G G G G G C C G G G G G G$ GAGGAATAGAAGAGGGAACCAAGGAAGGGGAAAAAAGAAAGAG $G G C C A A A A G G C C G G G G A A G G A A G G A A A A G G A A A A C A A A G G G G$ G G A A A A A A A A G GAA $A \operatorname{Gg} \operatorname{G} G A A A A A A A A A A A A A A G G A A A A G G A A$ A A A A A A A A A A A A A A C C GGAAAAGGCCAAAAGGCCAAGGAAAA G G G GCCGGAAGGAAAAGGGGGGAAAAGGAGAACCAAGGAGCC AACAACAAGAAAACAAGGGGAAAGCCAGGAAGCCCCGAGAGG G G A A G G A A G G G GAA A G A A C C G G C A G G A T G A G G C C G G G A A G C C GA $\operatorname{G} A A A \operatorname{A} G A A A A G G A A G G G G A A G A G G C A A G G G A A A G A A C C G G$ A ACCGGGAACGGTTTTAGTTACAGAAAGAACCCAAAAGCACA $G G C C A A A A G G A A A A A G A C G A G A G G A G A G A C C C A A G G A A G G G G$ G G G G C A G G A A C A G G G G G G G A G G G G G G A A C C G G G G A G A A A A A $G$ AA GAAAACCCAAAGGAGGAAGGAAGCAAAAAGAACCGBAGAA AAGGAAGGAGGAGGAAGACACCAAAGAAAAGAGGGAAAAGGG A G G A A A A A A G G G A ACCCCAAAGGAGAACGACCCCAGAAAGEG G G G G GCGGGGAACAGGAAACACGGAGAGACGGAAGAACAGGA AAAGAAGGAGGGGAGGAAGGGAAGCAAAGGAAGGAAAAAGAG ACAGCCGAAAAAAGGAAAAGCAGGGGAGCCAGGAGAAAAAAG
 G G G A A T G G A G A A G G G G A A G G G G A G G GCCGGCCAAAAAAAGAA CAAAAAAAAAAACCAAAAAAAAGGGAAAGGGGAAAAGAACAG A A GAGGAAAGAAAAGAACAGTAGGAAGGAGAGGGAGAGAGGG G G G G G G G G G G A A A G G G G A A G G A A A G G A A A A G G A G G G A A G G A A A G GACCAACCGAAGAAGGAAGGGGGACCAAGGGGGGAAGGAA AAAAGGCCGGGAGGAAGGGGAGAAAACAGGAGGACCGGAGGG GAAAAAACCCAGACGGAGGAGAAGGGGGAAGGCCGGGGAAAG
 G GCCACAGGGGAAAACGGCCGAGAAGACGGGAGGGAGAAGCG
 G G G GAAAAAAGGAAAAAAAAAAAAGGGGAGGAGBAAGGAGAA G GAGACGAGAGGGGAAAAAAAAGGGGAAAAAGGAGEACAAGB G G GA A A A A A A A C G G TAAGGGGGGGCCGAAACCGGGACAAAAA G GAGGGGAGGGAAAGGAGGGAAAAGGGAGGGGGAAAAAGGCC T T G G G A G A A G A A G A G G A A A A G G A A G G G G G G A G G G G A A C A A G G GGCCAAAACCAACCAAGGCCGGGGGGAAAAGGGGAAACAGGA CAAAGAGAAAGGGGCCACAGAAGGGGAAGGAAGGAAGGAAAG GAAAACGGAAACGGAAGGAAAACCCCGGAGAGAAGGGGGGGA G GAGCCAAAAGAGAAAAAGGAAGGAAAGGAAGAGACGGAGAA G GAAAAAAAAAAAGGAGGAAAAAAGGCCAGGGAAAACAAAGAG G G G A C C A A G G G G G G C C G G A A A A A A A G GAAAAAAGGGGGGGGGA AA $\operatorname{A} A A A G A A G G G A G G A G G C G A G G G A G G A A G G G A G A A A A A A C A$ AGGAAAAACAGGAGAAGGAAAAAGAACCCCACGAAGG
$G C C G G G G C A C A G G A A A A A A G A A A G G C A G G A G G G G G G A C A G G$

AAGGCAAAAAAAGGGGAAAAAAGGGGAAAACCAAGGAAGGAA A A A A A A A A G G A A A A G G G G G GCCAAAACCAAAAGGAAAACC G G AA G G G GCCAAGGAAAACCAAAAAAGGAACCGGAAAAGGGGTT $C \subset G G A A A A A A G G G G G G C C A A G G A G A G G A C G G G A A G G C C A C C C$ G GAA A G G G G GCC GAGGGAGGGGAGCCGAAGCAGACCGBAGAG G A T T G A G A GAGGGGGGCCTAAGGAAGAAGAGGAGGGGAAGAG G G A A A A A A A A G GAACCAACCAGGAAGACGGGAAAGGGGAGAG AAAAAAGGAGGGAAGAGGAACCGAAAGAGACAAGGAAAAAAG A A G A A A C A A T A GACAGAAAGAAGGGACAAAGGCGGGBACCBA AAAGGGCCGGAAGGAGGAGGAAGGAAAAGAGGGAGGAAACAA GAGGGGAAGGGAGGCCCCGGGAAAGAGAAGGGGGAAAAAAGG G G A A ACCCGACCGAAAAAGAGGACGAAGGGAACCAGAAGAGG A G GAAA A G A A A CAA A G G GAAAAGGGGAAGGAGAACCGAAAAA
 AAAAGGGGGGGAGGAAGCCCAAAACAAAAGGGAACAAAGAGG AACCGAGGAAAGGAGGAAGGGGGGAAAAAAGAAAGAAAAGGG GAA $A \operatorname{GA} A \mathrm{~A}$ GAAAAAGGGGCCAAAGGGAGCAAAGGBAGGGGGG A A A G A GAGGGAAAAAAGGAGGAGAGGGGGAGGGA GAACCCCC AA GAAAAAAGAAGGACCAAGCCAGGGAAAAGGGAGGGGGGCC GGCACCCCAAAAAGAGGGAAAAGGGGAAAGAAGGAAGAAAAG G G G GAA $A \operatorname{GGGGGAGGAAGACCCGGGGGGGGGGGGAAGAAAAC}$ TAGAGAAAAGCAGGAAGAGGGGAAAAGGAGAGGGGAAACAGG
 G GCCAAGGGGAACACAGAAGAAGAAGAAGGGGGGAGAGAAAA $G G A C G G A A G A A A G G A G G G G A A G G A G G G A A A C C C C G A G G A A G A$ GAAGGGAAAGGAGAGAGGAGAAAGAAACCCCCAAAGACAGAA A GAAAGAAAACCCAAGGAGGCAGGGAGAGACAGGAAGGAGAAA GAAGCACCGGCCGGGGGAAAACGGAAAAAAGGAAGGAACCBA G GAA ACGGAAGGGGAAAAAAGGAGACCCGGCAGGAGAATACC GGAAGGCCGGAAAAGGAAGAAGCCAAAGAAAACCGACGAACC
 GAAGGGGGAAGGCCAAGGAGAGAGGGGGAAGGGGACGGTTGA A A G GAAAACAGGGGCCGGAGCCGGGGGGAAAGAAAACAAAAG
 C C A A C C G G G A G A A $\mathcal{C} G G G G G G G G G G A A A A G G G G G G G G G A A A C C$ A GAGCAGAAGAGACCAAGAACCCCAAGGAAGGGAGGGGGGCA $C C G G A A A G G G A G A A G G A G A G C A A G A G G A A A G G A C G G A G G G G G$ ACAAAGGGGGGGGGGGACAGAAGAGGAGACAGAGAGAAAGAA
 G G G G G GCCCCCC G G G G C C G G G G G G A A G G G G G G A G G G G A G G G G GAACGACCACGAGGAAGGGGCAGGAAGGGGGGGGAAGGAAGB G G GAA ACCAAGAGAGATTGGAACACACCAGAGAGAGAAAA G G A G GAGAGGAAGGAAGGAAGAAGAAAGGAGGGGGGCAAAAAAC
 A A G G G G A A A A C A G G G G A A G G A G A A A A G A A A G G G G C A G A G G G A A A A G G A G G G A GCGGAGAAAGGAGGGGGAAGAAAGAAGAAGCC AC G G G G G G A GAGCCAACCAGAAAGAAGGTTAGGAGGGGAGAA G G G G GAGACCGGAGACAAGAGGAAAAGCAAAAGGGGGAGGAA A A GAA A AC G G G GAGACGGAAAAGGGACAGGGAGGAAAAAAAA GCAGGGCCGAAACGGGGGAAAAAACCAGAGAGAGGAGAGGAA A A G G A G G A G GCC G A A A G G G GCCGGGGGATTAAGAACAAGGAA GAGGACGGCCGAGGAACCACGGGGAGGAGGGAAAAGAGAAGG A C A A A A C C G A G G A G A G A A A A A A C A G G G GAA GAAA G GCCCCCC AACCCAGGCAAGGGGAAAAAGGAGCCAACCGAAAGAGGGAGG G G G G G GAAA A A A A A G G G G G GCCAAGGAAAGACAGAACAAGAG G G G A G G G G G G A G G G C C G G G A G G G A A C A A A A C C G G A G G G C C G G G G A A A A G G A G G G A G G G G G A A A GAGAGAAC CA A A A G GAA G G A G $G C G A A A A C G A G G A A A A C A C C G G G G G G G A C C A A C A G G A A G G G G$ $G G G G G G A A G G A A G G C C G A A A G G G G A G G A A A A A G G G C A A G A A A$

G G GAAAGGAGGGGAGGAAGGCCAAAGGGCCGAGGGGGGAAGA A A A A A A A GCAA A A A CAGAAAGGCCGGGGGGAA GAAAA GAGGG A A G G A A T A A G A A A A G G G G A A G G A G A A A A G G GAA A A GACAAA A G G G GAGGGGGAAAACCAAGGCCGGAAGGAAAACAAAGGGGGG $C C G G G G A A G G G G G G A A A A G G C C G G A A G G A A A A A A G G G G G G A A$ G G G GCCGGAAGGAAAAAAAAAAGGGGAAAAAAAAGAAGGGGA A G G G A A G A A A C A G G A G G G G A G A A G A GAGAGGGAG GA GA G G G G G G G GAGAAGGGGAGAGGGGGCCACCCAAAGGAGGGGAAACGA G GAGAGGAGAAAGGAAGGAAAGGGGGAAAGAAAAAAGAGGAA AAGGAAGGAAGGCCGAGGGGCAACAAGGCCGAGAGAAGGGAC GACAGGAAAGGACAAAGGGGGGGAAAGGAAAAGGAAGGAGAA GGAACCCAGGAAAGAGAAGAAAAAAAAAGGAGGGAACAGACC A A A A G A A G A A A A A A A G G G A A A G A A A A A GAGGACAAAAAACAG $G G A A G G A A C C G G G G A A G A A G G A G A A A C C G A A A A A G G A G A G G G$
 A GAGGAGGCCAAAGAAGAAGGAGGAAAGGGAGCCAAGGAAGG A GAAAGGAGGGGCCGGAAGGAGAAAAAAAAAGGGGGAACAAA GAGAACAGGAACAGACAGACAGAAGGAAAAGAAAAAGGAGAA A A A A A A A A A A G GAACCGGGGCCAGGAAAAAAGCCGAAAGGGG CAA $A \operatorname{G} G A A C C G G G G G G G G G G A A C C G G G G G G A A C C A C C C A G G G$ AAAAGGAAAAGGGAGAGAGGACGAGACAGGCAAGGGAAAAGG AAAGAGAGAGGGAGAAAGGGAGGGAAGGCCAAGGGAAGAACC GAAGGAGGAAGGAAAAGGAAAAAAGGGGAAAAGAAACCAAAA G A A A A A G G A G A T G G G G G A A G A A A A A A G G G GAA $A$ G A A GAC C C C C C C A G G A G A G G A C A A A A G A G G G G G A A A A G GAAAA A A A A A G G G
 GAGAAGAGGGGGGGAGGAAAGAAAGAAAAAAGGAGAAGAGAA A G G A G GCCAGAAAAGGCCGGAGAAAGGGGAAAAAACGGAGGA A A A A A A A A A A G GAA $A \operatorname{GAAA} G G A A A A G G G G G G G G A A G G G G G G G G$ AAAAAAAAGGAAAACCGAGGGGGGAAAGAACCBAACGAGGGG A A A G A G C C G G G G C C G G G G A A A A G G G A A A A G G G G A A G C C A A G G AAACCGAGAGAGACAGCAGAGAAGGACAACAGGAACACGGGA $A C C A A A G A G G A G A A A A A A A G G A G G A G A G G A G A G G A A A A G A A A$ G G G G G G G G A A G G G G G A A A G G C C G G A A G G G A A A G A A G A G G G G G
 GAACACCCGAACAGGGGAAAGGGGCCAAATGGAGAAGAAAAG
 AACAAGACGAAGGAGAGGGAGAAAGGAAACGAGGAAAAGGAA A A A G G G GAAAAAGGGAGACCAAGGACAACCAAACAAAAAGAG A G G A A A G G A A G G G G A A A GAGCCGGAAAAGGTAACAGGAGGCC A A G G G G G GCC C C G G G G G G C A G A G GAGA G T T G G G A CA G G G G A A G G A G A A A C A G A G G A G G A A A A GAAA A G C C GA G G G GAA G G G G A G GGAACCCCGGACAGCCAGAAAAGAAGGAGGAAAAAGACAGGG AAAGAAAAAAGAGGCAAAAAGGGGAAAAAGGAAGAAAACAAA A A A A A A C C G G G GA $A \operatorname{A} A G G G G G A A A G A C A G A A A G G G A A A A A A G G$
 A A A A G G G A G GCA G G GAAAAA A A G G GAA A C C C CAA G G CAXA G G A GCAAA $\operatorname{C}$ G A A GAGAAAAGAGCAAGAACAACGGGGGGGGGGGG G GAAAAAA A $A \operatorname{A} G \operatorname{A} A A A A G G G G A A A A G G G G G G G G G G A C A G A A G G$ G GAA A G G G A A G G C A G G G G G A G G A G G G A G A C C C G A G G G A G A G G A A G G G G G G A A G A A G A G A A GAGAAAAA A A A A A G G G GACA G G G A G A G G G GACCCCGGAAGGAGGAAAGGAAGGGAAGGAGGGGAAGG AC G GCAGGGGAGAACAGGGGCCAAAAAGCCCCAACCAAACAA A GAAGGGAAAAAAAAAAGCGGGAAAAGAAAGGAAAAGGGACA AACCCCAGCCAAGACAAAAAAAAGACAGGAGAAGAGATAGAG GAAGAAAAAAGGGGGGGGAAAAGGGAGAACGAAGAGBACCAA G GAAAAAAGGGGCCAAAGAGAACCAAAATTAAGGAGGGCCAA A G G G C C G G G G A A A G A A G G A A G G A GAAGGGGGAAAAAC
A GAAAGGGAAGACCCAGAAACAAAGAGGGAAAAGGGGAAAG

GGCCAGACAACCGGAGCCCCCCGGGGGGAAAGGGAACAAAAG GAAAA $A$ A $A \operatorname{AA} A G G G A G G G C C G G T T G G G G A A G G G G G G G A A C A G$ $A G G G A T G G A A G G A A A A A A A A A A G G G G G G A A G G G G G G A A G G A A$ G G G G G G G G A T A GAG GAAAA A G G GAC G G G G G G G G G GAAAAA A G G GAACCGGGGAAAAGAGGATGGGGGGCCAACCAGAAAGAGAG AAGACCGACAAACAAAAAGGAGAGGAAGGGGGAAGGGAAAAA AAAGGGGACCAAAAGGAGAGGGAGGGGACAGGGGAAGGAGAA G G GAGAAAGGGGAGAGAAAGGGGGCCGGAGGAGAAAAAGGAA GAGAAACCAGGAAAAGGGAAAAGGCAGAGAGAACAAAAGAGG G GAACCGGAGAAGGGGAGAAGAAGGAAAGGAAAAGGAGAGAG GAAATTAAGGAAAAAATTGGGGAGGGGGGGAAAAAAAGAAGB T TCCGGAAAAGGAACCGGCAACGGAGGACAGGAAGGAACCAG AAGGAAAGAAAGGAAGAAAAGGACAGAAGGAAAAAAGAACAG GACGCAGGAAAAAAGAAGAAGGGAGGGGAAGAGAGGGGTTCG AAAGACGAAGAGAGAGACAGGGAAGAAAAAATAGGGGGAGGA
 C C G G A G A G A A A C G G G G A GA $\mathcal{A} G G G G G G G G C C G G G G A G A G C A T T$ C GAACCGAGAACGAGAAAGGGGGGAAAACCAAAA GGGGGGGG C CAA A GAAAGGGGGGGACAGAAGGGGAAGGGGCCGAGGACAA C C G C A G G G G G G A A G A A A A GAC C G A G G GAGGAGGGAAGGACA G AAGAAAGAGGAGCCAAACAAGCTACCGAAAGAGAAGCCAAGG AACGAGGAAGGAACAACCGGGGAAAGACCCCAGAGGGAAAAC G G G G A A G G G G G GACGGCCCCAAAACCGGAAAGACAAAAGAGG A A G G G G G GAGGAACAACCAAGGATAAAGAGAAAAAAGACCAA G GAA A A G G G GCCCCGGGGCCAAAAGGAAGGGGGGAACAAAAC A GAA A G G G G G G G G G A A G GAAAAACAAAGGGAGAGGGAAGAAA G G G GAAAAAAGGGGGGAAGAAACCAAGGGGGAAAAAAAAGAA CAGGAACCGGGAAGAAAGGACGAAGAGGGAGAAAAAAAAACA A A GAGACAATCAAGGGAAGACAAAAAGGGGAGAAAAAAGGAG AAAAGGGGAAAAAGGGAAGAAAAACCGGGCAAACACAAAGGG A A GAA A G G A A A T G A A G A A A A A A G G G GACAAGGGGGGAGAAAA AAGGAAAAAACCAAAAAAAAGGAAAAGGAAAAC GAAGGGGGA GAGAAGCCAAGGAAAAGAAACCCCAAGGAAAAGGGGAAAAGAA
 C C G G G GAGCCGGAGAAGAGGGAGAAGAAAACCAAACAAGGGG G GAGGGCCAGAGGGAGGCGGAGAAAAGAAGGAGAAGAACCGG A ATTCCGGACGAGGAGAGGAGGCCGGGGAAGAGGAACCAGBA G GAGAAAAGGAGAGAGAAGAGAGGAAGGCCCCAAGGGGAAAAA G G G G G GAACCAAAAGATAAAAAGAGACCGGCCCAAAGGAAAA GAGACAGAAGAAAGGACACCGGAGAGAAAGAGGGAAAAGA GA $G G A G G G C C A G A G A G A A A G A G G G G A G G G G A A A A A C A A A G A G G A$ A A A A G A A A G G CA $A \operatorname{GGGGGGCCGGAGGAGAAGGGAGAGAGAGAA}$ AAAAGGGGCCAGGGAAAAGAGGAAAAACAAAGGGGAAAGAAA G G G G G A G G A A G G G A GAAAAGAAGGAAAGCCACAA GAAAAAAA GGCACCAGAGCCGGAAGAGAGAGAAAAAACAAACGGCBAABAA G G A A G A G G A A A G G G G G CCGGACGACAAGGAAAAAAAGAAA GA A A A A A C G G G G A T G G A G G A A G G C G G G G G A G G C A A A G A G A A A A $G$ G G GAAAAGACGAGAGGAGAGCACCGGCCGGAGAAAGAAAGAA AAAGGAAGAAAAGGCCAGAGAGACGAGGCAAAACAAGGAGCC G GAGAGAGGGAAAAAAAAAAGGAGACAAAAAAAACCGGGGAA CAGGGGAAGGAAAACCAGGGGACCGGCCCCAAGAAAAAAAGB AC G G G A A G A A G G G GACA A G CA A A GAGGAAAAAAGGGAGAGAA G GAAGGAAGGAAGGGGAACCCCGGGACAAGGACCAAGGAAAA AAGGCCGGATGGAAGGAAGACCCCAACCGGAAGGAACCGGAG G G A G G A G G G G G G C C G G G G G G G A G G G G A A A G G G A C A G A A G G G G G G A A A A G G A G A AC GAAGGCCGGAAGGAAAAGGGGAAAACCAA

 AAAAAAGGAAGGAAGGCCCCGAAGGAGGCCGAGAAAGAGGGC

GAGAAAAAAAGGGGAAGGGGACGGGAGGAAGGACGAGGCCAC G G A G A G C A G G A A G G G G G G G A A G C C A A A A G G G G G G G G A A G G G G G G GAGGAAGGCCGAAAAAAAAAGGGGGGGGGGAAGAACAACC GAAAA AAAGATAAAAGGGAGAAAAAAAGAGGGGACAAAAAGG CAGGAAAAGGAACCCCGGGGGGCCCCCCGGGAAAGGGAAGAG
 G GAA A GAACCGAGCAGAAAAGACCGGGAGAAAGGAAAGCCGG AAGGAAAAAAGGAAAAAAGGAGAGCCAGAAAAAGGGCCAACC A A GACCAAGAGGGGAGGGGGAGGAAACCCCAAAAAAAGACGG G GAGCAGGAACAAAGGGAGGAAGAGGGGAACCGGGGAAAAGG A A C A A GCCAACCCCGGGGAGGGGGAGGAGGGGAGGGGGAGAC A G G G A GAGAACCAAGGGGGAAACAGAGAGAGAAAGGAAGGAA A A A A A ACAAAACAGAAAAAGGGCCAGAGAGAAAAGGACAACC G G GAA $A$ AAAAAAACAGACACCAAGAAAGGAACCAAAGAAGGCG
 GACACCGGCCGGAAGGAAGAGGCCAGTTAAAAAAGGAAAAAG G GAGAACCGAGGAGCAAGAGCAGGGAAGGGGGGGGAAAGGCC GAAAACGGCCAAGGCCAAGGAAGGAAAAAGAAAAGGAGAAGG G G G GAGCAAGAACCCCGGGGGCAAGGGGAGGGCCGGAAGAAA
 CAGAGAAAAAAGCACCAGAGGGAGCCCCAGGAGAAAAGAAAA A A G GAGGAGGGGAAAGGGGAAAAAAAAGGAGGGGCCCAAAAA AAAGGGGCCAACAAAAGGAAAGAAAGAGAAAAGGGGAGAGAG A A A A A G C A G G G G A G A A A A A A A A G G G G G G A A C C A A T T G A G A C C
 AAAACAAACCAAGAAAAAGGGGCCAGGAGGCCCCCACCAGGG GAGAGGAACCGGAAAAGGGAAAAAAGAAGGAACCGGAGAGAA A A A A A A A A G G G G G G A A A A GGCCCCGGAAAAAACCAAAAAAAC A A A A A TAAAACCGGGGGAAAGAGGAGAAGGCCGGGGAAAAAA AAAGGGGGCCAGAGGACCGGTTCCAAGAGGAAAAGGAGAGGG A G A G G G G A A A G A G G C C G G A G A A C C A G G G G G C A A A G A G G A G A A ATAGGGAAAAGGGGGGGGAAAAGGGGGGAAAACAAGAAAGGG G GCCGGAGCAAGAAGGGAGAGGGAGGAGAGGACCAAGGAGAA A G G GAA A G GAAAAACCAGAAGGGGAAAAGGAAGGGGGAAAAA A A A A G GAA $A \operatorname{GAA} A G G A A A A C C G G G G G G A A A A C C A A G G A A G G A A$ A A A A T T C C A A A A A A G G A A G G G G A A G G G G C C G G A A G G A A C C G G AACCAACCAAAAGGAACCGGAAAAAAGGGGGGGGGGGAAAGG $C G C C G G C C C C C C G G A A G G A A G G A A A A G G G G A A A A A A C C G G C C$ G G A A G G A A A A G G A A C C G G A A A A A A A A G GAAAA A GAA G G G G C C G G A A A A A A G G G G G G G G A A G G G G G G A A G G A A A A C C G G A A A G G A C CAAA GAGTAAAAGAAAACCGGAAAAAAACGGCCGGGGAGAG A A G G G G A G A A C C G G G G A G A G A G G G G G A A A A A A A A T T A A C C G G A A G GAAGGAAGGCCGGAAGGGGAGGAAAGAAGAAGAGGACAA
 A GAGCAGGGGAAAGACGGCAGGGAAGGAACGAGGAACAAA GA $A G C C A G G A G G C C A G A G A G A A A A G A G G A A A A A A G G G G G G G G G A$ ACGGAAGAAGAACAGGGGAAGGGGAACCAAAGAAAAGGAGAA

 G G A A G G G A A C C C A A G G A A G G G G G G G G G A G G A A A A A A G G T T A G
 GAAAAACCCCAGAGGGGGCAAACCAAAAGGAAGGGGGGGGGG A A A A A G G A A A G GCCAAA A GAGAACCCGGGAGAACAGCCBGAA A G GAA A GAAAGGAAAAGAGGGGGGGGCCGGAGGAAGAAGGGG G GAGGGGAACAAAGACGGGGAGCCAGGAACAAGGAAAAGGGG
 G G G G G G T T A A A A A A G G A A G G G G C C A A A A A A A A A A G G G G A G G G A A C A A A G G A G G G A G A G A A G A C A G G A A GAAAGGGGACA
$G C \subset A A G G A G G A A G C C G A G A A A G G A A A G A A A A C C C C A A C A A A$
$C \subset A A A C A A G G G G A A T A A A C C A G A A A A T A A A G A A A G A G G G G A A$ A GAAAGAAGACCGGGGAACCAAGGAACAAGAAAAGACCBAAG CCGAGGAAGGCCGACCCAGGGAGGGAGAGAAAAAGGAAAAGA A G GAGGGGCCAAGGGGAAGGGAAAGGGGACAAAGAAAAGAGA GAGAAAAAGGAACCGGAAAAAGCCAGAACCGGGGGGGGAGAA G G G G G A A G A A G GAA $A \operatorname{GGGAGAAAGAGAGAGACCAGAAAAGAAG}$ GAGGCCAAGAAAAGGGAAGGAGAAAAGAAGGGAGGACBCABA GAGGGAGAGGAACGAGGAGAGGAAGAAAAAAGAAGGGGACAA G G G G G G G G A A G A G G A A A A G GACAAAAAAAAAACCAAAA GAAA AAAGAAAGGGGGGGAGCAAAAAGGGGCCGAAAGGAACAAAAG A A G G G G G G GAGAGGAGGGGAAGGAGAGACAACGGGAACAGAC
 G GAGAGAGAAGGAACCCCGGAGAAAAAGGGAAGGGGGGACAA A G G G G A A A G G G G G GCACC G G G G A G G G G GAAGGCCG GAAAAAA AAAAAAGGAGAAGCAGGGAAAGAAGGAAGGGGGAGGAGAGAA G GAAAACCAACACAAGGGGGGGAAAAAGGGAAAAGGGBAAAA A A G G T A A G G GAGGAGGGAAGGAAGGAGAACGACCGGGAAAAG C C G GAAAAGGAAAAGGGGAAAAGAAGAGCAGAGCAAGGAGAA AAAGGGGAGAGGGGAACCAAAGGGGGAGGGAAGGAGAAGGAG G GAAAAGGCCAAGAGGGGAGACAGGGAGAGGAGGAAAAAAAC ACAAAAGGAGAGAGAGGAGGCAGGGGGGCCGGGGGGGAAAAA G G G G G G A G G G G G G A A A A A G G G G A A A A A G G G G G A A A A A A G G G G A A A A A A A A G G G G G GAAAACCCCGAGGGGGGAACC GAAAGGGG $G G A A C C C C A A A A A A G G A A A A G G C C G G A A A A G G A A A A G G G G A G$
 G G GAGGCCGGAGCCACGGAAAAGGACAAAAGAGACCAGGGGG $G G C C A A G A A G G A A G G A G G A A G A G A A A A C G A A A G A A G G A G G G G$ A A G A A G A C G A A A G G GA $A \operatorname{GGGGGGAGAAACGGAAACAAGGGGGG}$ A G GAA ACCAAGGAAGGGGAAGGGGGGCCAAGGGGGGAGAAGG G G GACCCCAGGGAACCGGGGGGGGAAGAACGAACAGAAAAAA GAAACACCGGACACGGGGAAGGGGGGCCGGCCAAAAGGAGCC AACCGAGAGGGAAACCGGGGCCGAGAGGCCGGGAAAACAGAA C C A GAGGAGAAGAGGAAAAACCGGAAAGGGAAAGGGGAGAAA G G G A G G A G G A A G G G A A T T G G A G A G A A GAAA A G G A G G C A A A G G G GAGAAGGGGACGAAAACGGGGAACCAACCGGAGGGAAGGGG C C G G A G G A A A G G G G G G G G A A A A G G G GAA A G GAAAAAA G G CA A $\mathcal{A}$ GACAGAAGGGACGGGGAAGGAATTAACCGGGGCCGGAAGGGG G GAGGAAAGGGGAGGAGGGGAAGGAACCGGGAAAGAAACAAA
 AAAGCCGGCCCCGACCGAAGAAAAAGGGGAGGGGBAAAGGGG ACATAGAAGGAAAAAAGGGAAGGGCCAAGGAAAAACAAAAGG AACCGGGGAAAAAAGAGGGAAAAAGAAGAAAGGGGGCCAGAA A ACAAAAGAAAAGGACGGGGAACCGAAGAAAGAAAAGGBAAA G G GAACGCGCGGAAAACCAGAGAGAAGGAGAGGGGGAAAAAA C C A GAGGGAAAAGGCCGGAACCGGGGGGAAAGCGGGAAGAAG

 AAGGGAGGGGAACAAGAGAAGAAAGGGGGGGGAACCGGCCGG AAAAAAGGGGAAGGCCGGAAAGAGAGGAAGAAAAAGTAAAGG A G A G A A G G G G A A C C G A G G G G A G G G A A A A $A \operatorname{G} G A G G G G G G G G G G G$ G GCA $\operatorname{C}$ GCAAGAAGAGGAAAGGGGAAGAAAAGGGGGAGAAAAA A G GA $\operatorname{G} G A \operatorname{A} A A \operatorname{A} G C C A A A A A A G G G A G G G G G A C A G A A A G G G G C G$ $G G A A A A A A G G A A A A A G G G A G A G C C G G G G A A G G G A A C G G A G A A$ ACGGAGAAAAAAAAGGGGGGCAAGGGAGGGAAGAGAAAAAAA $G G A A G A A A C C G G G A G A G A G G G A G A G G A A G G G G G G G G C A A A A A$ G G G G A A A A A A G A G G GAA A G G G A A A A CAAAAGGGGAAGAAAAA G G G G G G G G A A A C A C G G C C G GCC C G A A GAA G C C G G C C A G G G A G A G G G G G C C G G A G G A G G A GAA A G A A GAGGGGGGAAGGAAAAAA $A A G G G G G G G G G G G G C A A A A G G G G G G G A A A A G G A G G A A A A A G G$

G G G G A A G A A A C C G G G G A G G GAAGGAAGGAGACAAAGGGAGAA AAAAAACCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGAAAAA A A A A G G A A G GAAGGAAGGAAAAAAAACCAAAAAAAAAAGGGG GGAAGGGGAGGGAAAACCACACAAAAAAGAAAGGCCAACAAA GAAAA $A$ A A $A \operatorname{A} A G G G C C G A G G A G A C G G G G G G G G G G A A A A G G G G$ AAAGCCCCGAAAATAGAAGGCACAAAAAAGAGGAGAGAGAGA GAAGGGGGAAGGGGCCCCGGAACCGGAAAAAAAGAAABAAAG GAGAAGGGCCGGAAGGCCGGCCGGAAAAAAGAAAAAGAGGCC A A G GAAAAGGCCGGAAGAGGCCAAGAGGAGAAAGGAGGGGAA G GAGGGCCGGAAGGGGGGGGGGGGAAAGGCAAGGAACCGGGG G G G G G G G G G G A A A A A A A A G A A G G G C C G G A G G G G G C C C C C C C GAAGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAAGGGGG C CAACCAGCCAAAAAGGAGGACGGAAGGGAGGCCAGAAGGAA AAGGGAAGGAACGGCCAAAAAAGAAAGAGGAAAGAAAAAGAG AAAAAAAAACGGGGCCGGGAAAAAAAGGGGAGGGAGGGAGAG A GAGGAGGAAGAAAGAAAGGACGAGGGGGGAAAAAGAAAAAAA G G G GAA A A CAA $A \operatorname{AGGGGGAAGAAGGGGAGAAACGAAACCAATA}$ $A C G G G G A A G A G G A A A A G A G G G G A A G G A A A A T A G G C A A A A G G G$ G G G A T T A CAGAAAGGGAAAACCACGAGGGGAGGGAACACACC G GAA A A ACGGAACCAGGGAAAAGGTTCCGGAAAAGGCCAAGG CAAAAAAAAGAAGGAAGGAAAAAACCGGGGAGGGAGAGAGAA AACCGGAAAAGGGGGGACAAGGAAGGCAACAGAACAAGGGGG G GAA A $A \operatorname{G} G A A G G G G A A G G C C C C A A G G G G A A A A A A A G G A A A G A$ GAGGGGGGAGAGAAAGGAAAGGAAAGGAGACCAAAAGGAGAA G G A A A A G A A GA GA G T T G GCCGGAAAAAAGAGGGGGGAACCCC A ACCGGAAAAGAGGAGGACAAGAAGGGAGAAAGGGGGGGAAA G G GAGAGGAAAAGGAAAAAGCCGGAAAATTAGGGAACCGBAA
 G G G G G GATAAGAAAGGGCCAACCAAAGAAAAAAGAAACAAA T TAAAAGGGAATAACCGGACGAAAGGGGGGAGGGGGGAAAAA GAAGGGAGGGAAAAAAAAAAGGGGCCAAGGGAGGGGGAAAGA AAAAGGGGCCGGGGGGAAGGGGAAGCGGGAAGAGAAGGAACC
 AAAAGGGGGGCCAGAAAAAACCAGAAACGGGGAABAGGGGAG GA $A$ A A $\mathcal{A} G G A A G G G G G G A A A G G G A A A G G G A A G G A A C C A G G G G G$ A A A A A G A A A A A A A A A A GGGGAAGGCCGGAAGGAAGGGAGGAA G GAGGGGGAGAACAAGGAGGAGGGAGGGACAGCCGGAACAAA GAGGACCACACCGGGGGGAGGGGGCCAAAAAAGGAGGGAGAG G GAGGAGGGGGGCGAACCAAAACAAGGGGGAGGGGAAAAACC A ACAAACCGGAAGGAGAGCCGGGGAAAGAAGAAGAGGAAAAA G GAGAACCGGAAGGAGGAAGGGGGGGAGACBAAAGGCCGGGG A A A A G A GAACAGAAAAGGGGAAAGGGAAGGACGAGGAAAAGA G G G GCAAAGGGAAAAGAAACCCAAGGAAGAGAGGAAGAGGGG AACCAGAACCGAAAGGAAACCCGAGAGAAAAGGGAAGAAAAG GAA A A A GAA A G G GACGGGGGGGGGGGGAAAAAGAAAACAAAA $G G A C G A G A G G G G G A A G A A G G A G G G A G G G G A G G C C A A G A C A B A$ AC G GCCACAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGCC G G G GCCAGAGAGAAAAGGAAGGAAGGGGAACCGGCCAAAAAA AAAAGGGGGGGGGGGGAGAGCCAGGGAAAGGAAAGAAAGGGG AA $A \operatorname{GA} A A G A A A C G G A A A A G G G G A A G G A G G A A C G G A G G A G G C C$ G GCAAA $\mathrm{A} A \mathrm{~A} G A A A A G G A A G A G A C A G G G A C C G A G A A A A C C G G G$ CCGACAAAGGGGGGAGAGAAAGGGAAGGCAAGACAGAGAAAA A G GAA A A G GAAAAAGAGAAAACGGCCAGCCAAAAGGACGGCC G GAAAAAAGGGGGGGAAGGAAGAGGGGGAGGGAAAAGAAGAG GACAAAAGAAGGCCAAGGTAAGGGGGGGAAAGGGAAGGAAGG A G G A G A A G A A A GAAAACAAAGGAAAAACGGGGA GAAA GAA G G $A$ $A G G G G A A G G G A A G G G G G G A A G G G A G G G A G G A G G G A G G G A A C C$ A A G G G G G G G G A G G G G G A C A A A A A A A A G GACA $A \operatorname{AGGGGC}$
A G G G G A A A ACCAAGACAGAGGGAGGAGCCAACCAGAAGAAA
$C \subset A C G G G G G G A A G G C C G A C C A G A A A A A A A A G G A A A A G G G G G A$ A G GA $\operatorname{A} G C C G G A A A G G A A A A G A G A G G G G G A A C A A A G G G G A G A A$ A A G GAA A $\mathcal{A} G A A G A G A A A G G A G G G G G G G A A A G G G G G A A A A A A A$ AGGAGGAGCCCCCCGAGGCAAGAGGAGGCCAGAAAGGAAAAG AA $A$ ACCGGAGGAACAAGGAGAGGGAACCGAAGGGAAAAAC G $\mathcal{C} A$ A G G G G G A A A G C C G G A G A G A GA G G G A G A G G A GAA A A G G G A G G A C C A A G A A G G GACAGAAAGAGAGACGGAGGGGAA GTTAGAGAG GAGGGAGGGGAACCCCAAAGGGAGGAGGAGAAGAAAAAAAAG G G G A C C A A C C A A A A G G G G G G G G C C G G G A C C C C G G G A G G G A A G CAA $A$ A A GAGGAGAAAGATGAGGAGGGAAAGAA GAA GGGGGTT G G G G A A A C G G G G GAC $A \operatorname{A} A G G G G G A A G G G G A A A A G G G A G G G G A G$ $A C G G A A G G A A A G G A G G G G G G A A A A G G G A C C C C A A G G A G A G A G$ A GACAGAGGGAAAACCGGACAGAGGAAGAAAGAAAAGAAGAA AC G G GACAAAAGACAGCCAACCGGGGGAAAGGAGGAAGAAGA G GAGAAAACCGGGGGGAAAGAAAAGGGGAGGAGAAGAAACAG A A A A G A A A A $\mathcal{A} G G G G G G G G G G G G G A A A A G G G G G G G G G A A T A A G$ A G G GAAAGCAAGCCGAGAAGGGGGAAAAACGGGGAAGAAGAA G G G GCAA G GAAA $A$ A A $\operatorname{A} A A A G G G G A A A A C C A A G G G G A G C A G A A C$ $G G A G A G G G C C A A A G G G A A G G G A A A G G A A A C G A G G G G A A G G A A$ G GACCAAGAGAGAGAGGGAAGGGGAAAAGGGGAGGGGGAAGA A A A A A A A A A G A GAGAGAGAAGGGGAGGAACGGAAAAAACCAA

 A GCA C G C A G G G A C C A G A A A A A G G A A G G G C C A A C A G A G G G G A G A GAGACAGCCGGAGCAGGAAGAAGGGGACCGAAGGCGAATAC
 TTCCAAAAAAGGAAAGAGGAGAGAACAAAAAAAAGGAGGAGA A A A A C C GAGGCCGGAGGACCGGAAGGGGGGACGGGGAGAGAG G GAAAGGAAGAAAAAGAGGAGGGAAAGGAGAAAAAACCACAA C CACAAGGGGGGGGCAAGAAGCGGGAGAAGAAAAGAAAAGGG G A A A A A G A G G G G G G A A A G A G A G T A A G C C A G G A G G G G G G G G A A AAGGAACCCAGGAAGGAAAGGGGGCACCAAAGGGACCACCGA C CAAAAAGAAAAAACAGGGGGGAAAAAAGAGGAAA GAAACGG ACAGAAAGTTAAAAGGGAGGGGCCCCGGAGGAAGAGBAGGAG GAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A G A A G G G G G G G A C C A A G G G G A G$ AGGAAGCAAAAGGAGAAAAAAAAAGGGGAAAGAAAGGGAAGAG C CAAAAGGGAAACCGGAAAACCGATAAGAAAAAAACGGGAGG
 G G G G A A A A A A GAGGGCCAGAGGGAAGGAGGGAAAAGGABAAA GAAAGACCAACCAAGGAAGGGGAAGGAGGAAAGGGGAAAAAA AAAAGGGGGGAAAGGGGACCAGGAGGAAGGAAAAGGAGAAAA
 AAAAAAAAGGCCAAGGAAGGGAAGAGCCGGGAAAAGAAAGAA G GAAA A A A $A \operatorname{Ag} \operatorname{A} G A A G G G G A G A A G A G G G G A A A A G A A G G A G G A G$ A G G A G A G GCA $\mathcal{A} G G G G G A A A A A A A G A A A A C C G G G G G A A A G A A$ A A A C G A A A A A G A G GAA A GGAGAGAAGACGGAAAAAACGGGCA A G G G G GAA A GCCCACCCCAAGGGGAGAGAAAAAAGAAAGGAA AAAAGGAAGGGGGGAAAGAGGGAAGAAGAAGGCCGGAAAAAG A GAA $A \operatorname{GA} \operatorname{A} A A A \operatorname{A} A A A A G A G G A G A G G G A G G G A G T T A A G G C C C C$ G GCCAAAAAGCCGAAAGGGGGGAAAAGGGAAAAA GAAAAGGG A A A G G GCGGGGGGGGAAGAGGGAGGGAGGAAGAGACAGGCGG A GAGAGACGAGGACAGGAAAAAAAGGGACAAAAGAGGAAGAG G GAAGGGGCCAAAAAGGGAAAAAGAGCAAGACAGCCCCXGAG
 G G G GACGGGAGAAGGAAGGATXAAAAAAGGGGGGGGGGAGAG GAGGAAGGAAACGGGGAGGAGGAAGAAGGGCAAAAACCAAGAG G GAACCAAACAAAGGAAAAGGGCCAAAACCGAAGACCCAGAG C C A G A A G G G G G GAGGGCCGGGGGGGGAAAAAAAACCAGACAA AAAAGGGGGAGGGGGGGGAGGAAAGAAAAGCCCAGGCAAAGA

C G GAA A A A A GA GAGAAGGACCAAAGGAGAGGGACCCCCAAGA
 $A A C C G G A A C C G G A A G G G G A A G G A G G G A A G G G A A G A G G G G G G G$ G GCCACGGAAAAGGGGGGGGAACCAAGGGGAAAAAGCCAAAA A G G GCCAGGGGAAACCGACCAACCGGGGGAGCGAAGCCAGAG A GAA $A \operatorname{G} G \mathrm{G} A A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A A A G G A G C A A G G G A A A A A A G G C C G G$ G G A A G G A A A A C C G G A A G G G GAAAAGGTTCCGGGGCCCCAGAA G G G G A A A A G G G G G GCCAAAAGAAAGAAAAGCCGAGGAAGGGG A A G G G G G G A G G G G G A A A A A A GAAA A CAAGGGGAAG GAAAAA G G $A C G G G A A G G G A G G G A A G A A G A G G G A G G A A G A A G A T A A A G G G A$
 A G G G G G A A A A A A G G A G A G A A A A A GAA A A A A G GAA G GA GA G A A A ACCGAGGAGCAGGAGCCGAAAGGGAGGAAGGCCACGAGGAG A A C C A G A A A G A G G G A G A G G G G G G G G A GAC G C C A A G G G GA G C A GAGGGGAAAAGGGGGGGGGGAACCGGGACAGAGAGGAAAAAA AA $\operatorname{A} G \mathrm{G}$ G G GAAAAGGAAAAAAGGAAAAGGGGAAGGAAAAAAAA G G A A A A A A A A A A A A A A A A A A A A C CAAAAGGCCGGAAGAAA G G $C \subset A A C C G G G G G G G G G G A A G G A A C C G G A A G G A A A A A A A A C A A A$ G GAAAAAGAAGGAACCGAGAGGAAGAGGAGAAGGAGAAACGA
 GAGAAGGAAAGAGAAGAACCGGGAGGGAGGGAGGCAAAAGAC C CA A A A A A G GAAAAGGGACACAAAACGGGGCCAGGAAGAGAA
 A G G G A A G ACC G GAGCCGAAGACAACCAAAGGGGGGGAGAABA G G G G A A A A A A G G A A A A A A A A G G G G A A G GAA A GAA G GAAAAA A
 AAAAAAGGGGAAAAAAGGAAGGAAAAGGGGAAAAAAGGAGAA G G G G G G G G G G G G G G A A G G G G A A A A A A A A G GCC G GA G A A A A G A G G A A A A A G G G G A G A G G G GCCGGGGGAAACCGGAGGGAAGGCC AAAAGGAAGGAAGGAAAGGGGAAGGAAAGAGAAAA GGGGGGG G GAA $A \operatorname{GAA} C \subset G G G G C C G A G G G A T A A G A G G G A A A G A A G G G G G G$ $A C C A A A G G A A A A A C G G G G A C A G A A A G C A A G G A G A A G G G C C A A$ GAGGAGAAAAGGGGAAACAGGAAGGAAGAGGGAGGGCAAAAG C C G A A G G G G G G GAA A A A A G GAAAA $A$ A GAGGGAA GAAAGGAGAC A GCCGAAGAAGAAGAAGGGAAACCGACGGAGGGGCCAAAA G G GAAGAAGGTTAAAACCAACCAAGGGGAAAAGGA GGABGGGGG G GAAAACCGGGGAAAGGGAACCGAGGAAGGCAGGGGGACAAA GGCAA GAAGGGGAAGATTAAAAGGAAAAAATAGGAAGGAGAA A A A A $\mathcal{A} G C C G G G G G G G G G G G G G A G G G G G A C A A A A G A G C A G G A T$

 A A G G G G G G G G G A G A G G A G G G A A A A A A G A C C G G A G A C G G A G A A GACCAGAGAAAAAAAAGGGACGGGACGGACGGAAAAGGAGAG GAAAAAAAAAGGGGGAAGGGGGGAAAAAAAGGGGGGGGGGGGG A A G G G G A A G G C A A A T T C C A GAGGGGGCCGGAAAAAAAA GA G G
 A A G G A A A C G G C A G G G A A $\mathcal{A} A G G G G G G G G G A A G A G G A G A G G G G A$ A GAAGGAAAACCCCGGGAAAGGAAAGCAAAGGAACCAAATAG G GAGGACAGAGAAGCCGGGGCCAAGAAAGAAGAGCAAAAAGA A GAGAGAGAAAGGGGGAGGAGGGGCCAAAGAAAAGACAAGAA AAAGAGGGGAGAAAGAGAAGAAGGGAAAGGAACCCCAAAAGG G G G GCCAAGGAAAAAAGGGGGGAAGGAAAACCGGAAAAAAAA G G G G G G A A G G G G A A A A $\mathcal{A} G G G A A A G A A G G C C G A A A G G G G G C$ GGGGGGAAAAAAAAAAAACAAACCGGAAGGGGGGAAAAGAAA A A A A G GAA A G G G G GAAC A A A A G GAA $A \operatorname{A} G A A A A G G G G G G G G A G A A$ G G G G A A A A G G A A A A C CA A G GAA $A \operatorname{AGGGGGAAAAGGGGGGAAGA}$


AAAGGGGAAAAAAGGGGAAAAGGGGGGGGCCAAGGGGGGCC

A A G G G GCCGGAAGGGGGGGGGGGGAAGGAAAAGGGGAAAAGG A A C C A A $\mathcal{A} G G G G G G G G G A A G G G G G G G G G G G G A A A A G G A A G G A A$

 AA $\operatorname{A} G A A A A A A G G A A A A G G A A A A G G G G G G A A C C G G A A A A G G G G$ A A A A A A G GCCA A G GAA $A \operatorname{AGGGAAAAAACCGGGGGGAAAAGGGG}$
 $A G G G G A A A A A G G G G G A G G G A A G G A A G A A A G A A G G A A G G A C A A$ GACCGAACAAGGGAAGCCGAAGGGAGAAAGAGGGCAGAAGAG AAAAAGAAGGAAAAAAGGAAAACCAAGGAGGGAGGGCCAGAG A GAGAAAGGGAGAGGAAAGGGGCCAAGACAAAGGGGAAGGAG C C G G A G G G C G G G G A G G A A A A G G G GAAAAAAAAAAAAAAGGGGGA G G A A A G G A C C G GAGCAGGGGGAAAGGCCAAAACCCCAAGAGA G G G G A A A G TAGGAGGAAAAAAAGGAGGGAAAACAAAAACCAC G GAA $A \operatorname{GAA} \mathrm{~A}$ GAAGGAACAGAAAGGGGAACAGAAAACCCAAGB G GAGCCGGGAAAGGGGAGAACAAAAAGGGGAGGGGGAGAAAG

 AA $A \operatorname{G} A \mathrm{~A} A A A G G G G G G G G A G A A A G G A G A A G G G A G A G A A A A G G G$ CATTAGGGAAAACCCCGGAAGAAAACGACAAGGGGAGGAAAA
 G G GAA ACCAAGAGAACAGACGGGAGGGACCAAGGAAGGAGAA
 CCGGGAGGCAAGAAACAAAAAAAGAAGAGGGGGGAAAAGGTT $G G A A C C A A A G A A A A A A A A A A A C G A G G G G G G A A A A C C G G G G G G$ G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A A A A \operatorname{A} A \mathrm{~A} A A A C C G G G G A A G G G G G G G G G A A A A A$ AAAAAAAAGACAGAGGCCAAGAGGGAGAAAACGGAAGGAGAG ACGGGGAGAAAATTGGGGCCCAGGGGCAAAAACCGGAAAGAA AACAGAAAAAAAAGCAGAAAGAGAAGAGGGAGAAAGGGATTA AAAAAGGGACGGAAGGGGGGAAATAACCGGAAAGAGAGAGCA AAAAGGAAGGAACCGAAGCCAAAGACGAAGAAGAGGCAAAGB AGAAAGGAACAAAGGGAAGGAAGAAGAAGGAGAAGGAAGGGG AAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGGAA AGAGCCACGGAAGGGAAGAACCGGAAGAAAACGCGAGAAAGB A A A A A A A A A A A A A A A A A A A A GAAA A A GGGGGGGGAAAA GGGG A A A C A G G A A G A A TAAAGGGAAACCAAGGAGGAGGGAGGAAAA CAAGAAGGAAAGGGAAGGAAACAGAAAAGCAAGGAGGCAAAA G G G GAAAAGGCAGGGGGAAGGAGGAGAAGGGGGCGAAGAAGA

 A GAACCAACCAGGGAAAAGGGGGGACGAAGGGGAGAGGAGAG A CAC GACAGGGAGAACGGGAAAGAAGGGGGGGCCAAGBAAAG AAGGCAGAAGAAAAAGGGACACAAGAGGGGAGGGGACCAACA GA GAAAGAAAGGAAGACAAAAAAGCCAGAGAGAGAAGAAACA CAAAAGAGGGGAACGGCCGAGGAAGGAGGGGGGAGCACACAG GACCGGGGGGAGAAGGAGCCAACAGGCCAAGGAAGAAAGGGG GAAGGGAAGGAAGAAGCAAACACCGAAAACTAGGGGAAAAGA CAGGAAGAGGGGGGAAGGGACCAAGGGGGGCCAAAACCAAGG $C C G G A G G G A A A A G G A A A C A A G G A C G A G G A A G G G G A G G A A C B G$ A A G G G A G G A A G G G G G G G G A G C C G G G G G G A C A A A A A G A G G G C G GAAAAAAGAAAAATAAAGGGAAGGCAAATTAAAAAAAACAAA A A A A A A G A A ACCGACCAAAAAGGGGGAAAGAAAAGAAACCGG A G A G A A A T G G A A G A G G A C G CACAAAGGAAGTACAAAG GAATT AAACAACCAAAAAAGAAGAGAAGGGGGACAAGAGAGCAGAAG AAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCBGAA AAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAAGA A GAAAAGAGACAAATAAAAAGAGGAAAAAAAACCAAAGAGAA A G A A C A A A A A A A CACACCCAGGCCGGAAGGAATTAAAAGGGA AAAAGGAGAAGAAGAAAAGGCCCCGGGGGGAGGGACGAAAGG

G G G GACAGAAGGAAAACAGCGGAGAGCCCCAAGGGACCAGAG
 GAGAAAAACCAAACAGGGCAAAGGGATTGAAACAGAAGGGCC G G G GAGCCCCGGGGAGGGAAAAAAGGAACAGGAAGGAAAGCA A G GAGAAGACGGAAAAGGAAAGGAGAGGGAGAGGGGAAAGGA C CA $A$ A A A G GAGAGGAGGAAGAAAAAGACAAGGAAA GAAAGGGG A A A A A A A G GAA $A$ A $A \operatorname{GAAACGAAAAGGAAGGAGGGGGGGGGGGA}$ CAAAAAGGAGAAAACCGGGGAGCCAGGGGGGGAAAAAAGGGG A A G GCGGAGGACGGAGAAACCAACAGGGAAAGAAGGAAGGCC AAGGAAGGGACCAAAGTTAAAGAGAAGAAAAAAACCGGGGAG A A GAGAAACGAACCGGGGACAGGGGGAAAAGAAAAGAACCGG G G A A A A G A G G A A GAAACAAAAAGGAAGGGGAACAAAGGAACAC A G TACCGGGGACAGAGCCGAAAGGGGACAAAGCCGGAAGGAA ACAAGGAACCAGAAAGGGAGGGGAAAATCCGAGGGAGAAAAA G G GATAAGGGAAAAGAGCGAAGAGAACAAACCAGGGGGAABA G G G GAACCGACCGGGGGAGGAGGGGAGAAACCCCAAGAAAAA A A G G A A A G G G G G G G A A G G A A G G A A G G A G G C A A G G A A G G A G G G A GCCGAGGAGAAAGCCAAAACGAAAAACGAGACCAGGGGGGA GACCGAGAGAACCCGGAACCAAGGGAAGGGCGGAGAGAAGGA GAAGAGAGCCGGAAAAAGAAAAAGCCGGCCGGGGAGGGAAAA G GAA A G GAA A GAGAGGGGGGAAAAGGAAAAAGAGCAAAGACA GAGAGAGGAAGAAAAAGAGAAAGGAAAAGGGGGGAAGAGGAG A G GAGGCAAAAGAGGGAAGGCCAACAGGGAAGAGAGACACAG A A A A A G G G A A C CA A A A G GACAAAGGGCCGGGGAAAAGAAA GA G G G GAGAGCAAAAGAAGACCAAGGAACCAGGAAGCCACAGAA $C \subset A A G G C A A A G G C C A A C C A A G G A A G G G G A C A A G A A A G G G G A A$ C C GAGGAGAGAAAACAAGGGAGGGGAGACAAGAAAAAAGAAA A A G G A A G G A A A A A $\mathcal{A} G G G G G G C C A A G G G G C C G A G G A A A A G G A A$ C C C C C CATC C CACCCAAGAGAAAAACCAAGGAAGGAGCCAAGA G GAAGGAAAAGGAGAAGGGGGGAGAAAAGGACGAGGAAAGAA AAGGCCGGGGCCAAAAAAAAAGAAGAGAGGAAAATTAAAAGG G GAAAAAAGGAGGAGGAACCGGAAAAGGAAAGACAAAAAGCA C CAAAGCAGAAGAACAGGAGAGGAAAGGGACAAGGGAAGAAA A A C C G G G G A A G G G G G GCCAAAAAAGGACGGCACCGACCAA G G G GAGCAGGAAGGGGAAAAGGAAGGCCAAGGGGCCCCGGAAGB G G G G G GAA $A \operatorname{GCC} C A A A A G G A A G G A A A A A A A A G G A A A A G G A C A A$ G G G G C C A A G G G G G G A A G G G G G G G G C C A A T T G G A A G G G G G G A A G G G GAAAAAAAAAAGGGGGGAAAAGGGGGGAAACGGGAAAGA G G A A G G G G G G A A A A A A A A G GAA A GAAGGTAAAGAA GAAAA GA CACAACAGAGGGGAGGAAAAAAGGAAGGGGGAA GAAGGGGGA AAGAGGGGAAAAAGAACAGGGAAGCAAACGAAAGAGAGAGAA G GAGCCAAACAAGGAAGAGAAAAAGGGGAAAAAAAAGGGGGA AAAGAGGGAGGGGGGGGGAGAGGGAAAAAAAAGGAACCGAGG G G GACCGGGGGGCCGGAAAAAAGGAAGGAAAAACAAGAAAGA ATGAAAACACAGAGGGAGGAAGACCCGAGACACCCAAGTTGG GA $A \operatorname{A} A A G G A A A A G G G G G G A A G G G A G C A A A G G G A G G G A G G G G G$ GAGGATCAGGCGGGGGAAAAAGGGACAGAGAGAAGGGAAAGG $A G C C A A G A G A A G C G A A G G G A A G G G G G G G G G G A G A G A A A A A G G$ AAAGGGGGAGGAAGAGCGAGAAGAGGAAATCCAGGGAAGGGA G G G A G A G G C A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A G G A A A A G A A C C A A C A A A A A G G G A$ GAAGGAGGACAAAAGGAAACCCAACCTTACAACCGGGGAAAA A A A A G G G G A A A A G G G GAGGAAAGGGGGGGGACAAAAAA G A A A A A A A A C G A A A A G G G C A A A C A A A A A A G A A A A G A A A A GA G G G G G A A AAAACCGGACGATTAAAAAAAACCAAGAAGCGAGGAAGGAGA AACACCGAACGAGGCCAAAAGACCAGGAAACCAAGAGGGGGG A A C A C A C A GAAACAGAAAGGAGAAGAAAGGCAAGGAAAGGAC
 C G C C G G A A A A G A G G G G G G G G A A G G G A A G G GCC C A A A G
GAGAAACAAAGGGAAGGGGCCGAGGAAGGAAAACCGGAGGG

CAAAGGGGAAAAAGAGAAGAGGCCAGGGGAAAGACCGGAAAA G G G G A A G A G G G G G G A A T T C C A A G G A A G G GAA T G A GAG GA A C C ACAGAAGGAAAAGGAAAGAGCAGGGGAAGGAAAAGAAAGGGG $C \subset A A G G G G C C G A G A A A A A A A G G A G A A G G C C A A A A G G A A G G C C$ G G GACAGGCAAAAAACCAGGAAAAGAAAGGGACCGACCAACC
 G GCCAA $\mathcal{C} A \subset A G G G G A A G G A G G C A A G G G G A T A G G G G G C A A A G G$ A G G GAGGAGGCCGGAAGAAGAGGAAGCAAGGGAGAGACAGCC
 A GAAAGGCGGAGGGGGAGGGGGCCCCGAAGGAAGGAAGACGG C C G GAGCCAAAAAAGGGAGAGAGGAAGACCAAGGGAAAAGGG C C G G A G G G A A A G G G A G A G G A A G G G A G G G G G G G G G C A A A G G G G $A C A G A A A A G G C A A A A G C A G A A A A G C C G G A G G G A A G G A G A G A A$ $G G A A A G G G A A A C A G G A G G C C A C G G C C C C G G A G A G A C G G A G C A$
 G G GACCGGAGACAGAAGGGGAAGGACGGGGAAAACCAAAGAC ACAAAAAAGGAAAAGGCCGGGGAGAAAACCGGGAAGGGAAGA G GACGGAAGAAAGGGAAGAGCCGGGAAAGGGACAAGAGAAGG AA $\operatorname{A} G A G A C A A G G G G G A A A G A A G A G G G A A A G A A A C G G A G A A A A$ GA $A$ A $\operatorname{A} G A G G G A A G G A A A C G G A G A C G A G G A A G G G G A A A A G G G G$ G GAAGGAGGGGGGGAGAGGGGGCCAAACAGGGGGAGAAGAAG A GA A G G G G G G G G A A A G G A A A GAGGGGGGAACCGGGAGAC G GA GAAACCTAGAAAAACCGGGGAAGGGACCGGAAGAAGGGAGCC
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 GAAGAAGGACAGAAAAGGAAAAGGCCAGAAAAGGAGGGGGAT A G G G G GAAAGGGATAAACAGGGAACCGAGAAGAAGGAAAAGAG AAAGGGGGGAGGGGGAGGCCCCGGAACAGAAACCGGAAGAAG ACGGCAAACCCACCGGAACAAGCATTGAAGACGAGGACAGGG G G G A A A A A G G A G G G G G G G G G A A G G A A A G G G GA GAAAA A A A A $G$ $A C C A G G G A C C G G A A G G A A G G A G A G G G A A A A C C A G G B A A G G G G$ G G G G A A G G G G A A G G G A A A GAGAGACCAAGGGGAGA GAA G GAA A A G G A A G A G A G A A A G G A A A A C C G G G G G G A A A A G A G A A A G G G G
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 TATTAGAGCCACCAGGAGCCGGAGAAAGCCGGGGAACCAAAA G GAGAGGGACGGAACCAACCAGGAGGGAGAAAAAAACACAAA GGCAACAACCAAGGAAGGGAAGACAAGAAGAGGGAAAAAAGG

 G GAGCAGAACAGCCCAGGGAAAGGAAAAAAAACAA GAA GGGG G GAAA $A \operatorname{A} A G G C G A A G A A C C C A A G G G G A A G G G A G G G G G G G G G G$ GACCGGAAGGGAGGGGAGAGAAGGAAAAAACCGGGGGGGGGA G GAAGGGAAACAAATTCCGGAAAAGAGAGACCTTAGGGAAGA G G G G G G G G A A A A A A GACAGGCCGGCCAGGGACGACCCAAAAA GAGGGGAAGGGGAAGGAGGAGGAGAGAATTGGAACCAAAAGA CC GAGAGAAGGGATGGACAGGAAAGGGAAAGGGATTACAAAA A A G G A A G G G G G GAA A CAAGGCCCCAAACAGGGGGAAAAGAAA A AAAAGAAAGGGGAGAAACCAGCCAGAAAAAAAAGGCAGAAA T TAAAGGGAAAGACAACAAAAGACAAAGAAGGGGGACCCCAG A T GAA $A$ A A $A$ A A $A C C G G G G A G G G G G G A G G G G C C G A A A G G G A A A$ A A A A G G G G G G A A A A A A A A A A G GAA A A G GAGGGAC G G G A G G A A
 AAAAAACCGGAAAAAACCGGGGGGGGGGGGGGGGGGACCAAA

G G GAGGCCCCAAGGAGAAGAGAAAAAAGGAGGGAGGAGGAGG A A CAAA G G A A A A A GAAA A G GATAGCGAAGAAGAAAAGGGGAA GAAGAAGGGGAAAGCCGGAGAAGGAAGGAAGGGGAAGGAGAA G GGAAACCGGCCAAAACCCCCCGGCCCCGGCCAAGGAAGGGA GACCAGGAGGAAAAAGAGGGAAAGAGGGAAGGGGAACCGGGA A GAGGAAAAGCCGAAAAAGGAAAAAACAAGAGGGGGAGAGAA A G G G A A A A G G G G G G G C C A G G A G G G A A A G G G G A A A A G A A G G G G GAGGAAAAGGGGGGGGAGAGGAAGGGAAAGGAGAAACAAAGG G G G G G G C C G G G G G G A G G G A G C C A A G G G G A A A A A A C C T TAA $\mathcal{A} G$ G GAACCGAGGGAGAGGAGAGAAGGAAGAAGCAGGGGGGAAAA
 GAAGGAAAGGAAGGAAAAGGGGGGAGGGAACCGGGGAAAAAA $G G C C A A A A A A A A G G G G A A A A A A G G A A G G A A A G G A A A G G A C A A$ GAGGGAGGAAAAGGGAAAAGAGAGGGAAGGAAAAGGAA G GAGA G G GAA A A GACGAGGAAGGAAAAGAGGGGAATTCCGAGAGGAG GAAGAACGGGAGGGAAAAGGGGCAAGAAGGGAGGGAAGAAAA GGCCGAGGAAGGAAGAGAAAAGACGGAAGAGGGACAGAAAAC G GAGGGAAAGAGAAAAGGAAGGGGAAAGAGAAAACCGAAGAA $G G G A G G A G G G A A G G G G C A A G A G A A G G A G G G G A A G A G C A G G G A$ A G A A G GAA $A \operatorname{GA} A \operatorname{A} G C A G A A G A A G G T T A A A C G G C C A A G B A G A A$ AAAGAAGGGGAAGGGGAAAACCGGGACCAGCAAGAGAAGAGA G GAAAAAAGGACAAAAGGAAAGGAGAAGAAGGAACCATAAGG A A GA GACCGGGGAGAAGAGACCACAGAGGGAAAGAAGCGGAC A A A A G G G A G A A G A $\mathcal{A} G G G G G G A A G G G G A A G G A A A A A A G G G G A A$ A A A G G A G A C A A G G A G G A G G G G G G G G G A A C C C C GCC CACAA G G
 T T G G G GAA $A \operatorname{GA} A A A G G A G G G G G A C A C A G A A A G G A C C A A G G A A$ C C G G G GAAAGCCGAAGGAACGGGAGGAGAAACAAAAAAAAAA A A A A A ACC GAA A A A A A G G GAGGAGAACAGGGAA GAAGGCGCC AAAAAATTAAGGGGGGAAAAAGGAAAGGAAGGGAGCGAAAAA A A A A A A A G G G A A A A G G A GCCAA G A A C G A G GCC GAA G C G A G A A A G G G GAGGGGGAGGGGAAAAAGGAGGGAAAACAGGGAAAGAA TACAGGAAGGGGGGGGGGGGAAGGGAGAAGGGAGGAAGAGAC GACCGGGGAAAGAAAAAAGAGGGGGGAGAAAAAAAACCBGGA G G G G A A G G G G G A G G G G C C C C A G G G G G G G A G A A G G A A A G C C G G G G G G G G G G C C A A G G G G A G G G G A C CAGAAAGAAAAA A A A A GAA A AACCGGGGAGGAAAAGAAGAAAAAGAAAGAGGAGAAAAAAAA A G GAAAAAGAAGGACCGGGGCCGGGGAAGCGAGGAGACAAGG G G G A G G A G G G A A G A G G A G G G A A A A C C C C A G CAAAAAA A A A G G A G G GCA $\operatorname{CA} A G G G G A A A G A G A A A A A G A C A A G G A A A A G G A A A A A A$ GAAGAGGGAAGGGGGAGGAAGGAAAGGGCCGGGGGACCAAGA GAGGAAGGCCAAGAAAACGGCCAAAGGAGGCCAAACAAAABA GAACGGCCCCGGAAGAAGAGGGAAGAGGAAGAAAGGAAAAAA G GAAACCCGGAGGACAAAAGCAGGGGCAAAGGCCCCAAGGGG A A A A G G G G A A C C A A G G G G A A A A A A A A G GATAGAAGGAA GAA G $G G A G G G A G G G A A G G A A G G A A G G G G G G G G G G G G G G A A A A A A A A$ G G G G G G G A G GAAAACCCAACAGAAGGCCAAGAGAAACCAAGAG AAAAAAGGAGAAAAAGGGGAAAGAAGGCGAGGAACCACGGGG G GAGGGAGGGGCAGAACCGGACGAGGAGAGGGAGAAGGGGGG A A G G G A GACCGGAGAGGAAAGGGAACAGAAGGAGAGAAAGGG AA GAAAAAAAGGAGGAAAATAGAAAAAGAAGAGGGAAAAGEG A A A A G A A A A GAGGACCAGAAGGGAGAAGAGAGGGAGGAAGAG
 GACCGAACAGGAGAGGAGGGGGGGAAAGAAGACCGGCCGACC G GAA A GAAGGGGACAGAAGGAAAGGAAGAACCAACCCCAGAG
 G G GCCCAATAAGGAGGAGAACCGGCAAGGGAAAGAGAAAAGAG GACCAACCGGAAGGAAGGAGGGGGCCACCCCCGGGGG
G GAGGGGGGCCAAGGGGAAGGGAAGTAGGGGGGCCAGAGGG

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 G G G G A A G G A A A A A A A A A A A GAGGAGGGGAAAAGGAAAAACAG GAGACCGGAGGAGGAAAAGGAGGGGGGGAGCCGAGAAAAACC G G G G G A A A GAACAAAAAACCCACCGGAAGGGGAAAGCCAAGA A GAGAGAAGGAGAGAGGGAGGAGGACGGAGGAGAGGGCAGAA A GAGGAGGAAAAGAGGAAACAGCCGGAAAAAAAAAGGGAACC A G A A G G G G T T G G C C G G A G G G G G G A G G G G A A A C C C G GAAAAAA G G G G A A A A G GAGGAGGCCGGCAACGGGACCGAAGAAAGACAA GAAAAAAAAGAGAAAGAGAAAAGGGAGGAAGGCCCAAGAAGG GAGGGAAGGAAAGGAGAGCAGGGGCCAAGAGAAAGAAGGAGA A GACCAAGGGAAGAGAGAAGGAGGAAGGAAAAAGAGAACC GA A GACGGGGGGGGAAGGAAAAAAAAAAGGACAAGGCACAAGAA A A C C G G A G G G G A G A GAGGGGGGAAGGAGACCCGGGGGAAAAA AAGGGGGGGGGAAGGGGGAGAAGAAAGAAAAGCCGAAAAAAG GAGGGACAGGCAGAAAAGACAAGGAGGGGGAAGAAAGGCCGG $C \subset C C A C G C G G G G A A A A C A G G A A A A A A G G G G G G A A A A C C G G C C$ A ACCAAAAAGGGGGAAAGAGGGGGGAAGGAAAGGGGGGAGAA G GAGAGAAAAAAAGGGGGGGGAGAGGAAGGAGAGGGGGTTAA C CAACAAAAGCCGAAGAAGGGGGGAAGGAGAGCCAGACAAAG A CA A G G G G G G G G G G G G A A A A A A $\mathcal{A} G \mathcal{G} A A A A A A A A G G G G A A A G G G$ AAGGAAGGGGAACCGGAAGGACGGACAAAGAAGAAAAGAACC GGCCAAAGAGAGAAAAAAAAGGCCAGAGGGGGAGGAACAAAG ACGAAAAAAAAAAACAGGGGGACCCAGGGGCCCCAACAAAGG A G G G G G G A G A G G A A A G A GAAGCAAGAAAAATTAC GAAA G GAA A A A A A A G GAGAGGGCAAAAAAGCCGGAACCAAAAAGGGCACA C C A A A A GAACGGAGAGAAGGCAGAAAGGAAACAGGGGAAAAA AAGGGGGGGGAAAAGGAGGAAAAAAACAGGAGAGGGAAAAGA GAGAGAAGGAGGGGAGAACAGAGGAAGAAACCAAGGGGCAGG
 $G G A A G A A G C C A A A A G G G G T T G G A C A A G G A A A A C C C C A G A A A A$ A A C C A A G G C C A A A A A A C C G GGGAACCGGCCAA GGGGAA G GAA A A G G G G G G G G G G G G G G G G A A A A A A A A A A A A A A G G C C G G G G A A G G G GAAAAAAGGAAGGGGAAAAGGGGGGGGGGGGGGAAAGCC
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G G G G G GCCAGGGAAGGGACCGGAGAGAGCCGGGGCCAGAAGG
 A GACGAAAAAAAAGAAGAAGGAGGGGAGACATCAGAGAAAAA A G G G G GAGAAGAAAAAGGAAGGGGAACCAGAGAAGGCGGAAA A G GAAACCAAGGGGGGAAAAGGAAAAAAAAAGGAAGAGAAAA A G A A A A A A A GACCCAAA GAAACAAAAAAAAGGGGAAAAGGCC A A G G G G A A A A A A G G G G G G G G G G A A G G A A G G A A A A A A A A A A A A G GAGACCCAGGGGGAAACAGAGGAGGGGGAAGCCGAAGAAGA A GACAGGAAGGACCAGGGGGCCGAGGGGCAAGAGGAGGAACA A G GAGGAAGAGGGAAGGAGACCGAGGGGAGGAGGGAGAAAAA A A G G G G GAACAAGGGGAGAAAGAGGAGAAAGGAAAAAAAAAA GA $\operatorname{G} A A A A A A A G A C G A A A G G G G G G G G G A C A A G A G A G G G A A A G G G$ A A C C A GCA $\operatorname{CA} A A G G G A G G G A C G G A G G A G G A A G G G G A A A G A A G A$ GAAGCAAAAAGGAAGAGGAGGGCCGGAAAAAAGGAAAAAAGBG G G G G G G A A A G A A A A G GAA $A \operatorname{GAA} A G A A G G A G A A G A A G A A G G G G$ GAAAAGAAGGGGGGCCGAGGGAAGAAGGGGAAAAAAAGAAGA G G G GAA A A GAGGAAAACCAGAAGGCCGAGGGGAAAAGAAAAA GACAAGAGCCGGCAAGCAAAAAGAAGGAGAAGAGAAAAAAGA $A G C C G G A A A A G G G G A A A G G G A A G G G G A A G G G G A A G G A A G A A G$ C A A A A A A G A A A A G A G G A A A A A G G G C C G G A A G G A A A A A A A G A G G GAAGGAAGGAAGGAAGGCAGGAGGAGGAAAAGAGAAGAAAG GAAAAGAAAGAGGAGGGAAAGGCAGAAAGGACCAAAGAAAAA AAAAGGCCAAGGGGAAAAGAACAAAAGGCAGGGGAGAAAACC A A G G A A C A G G A A A G GAAAAAAGGAAAGAAGAAAAGGAAA GGGG G G A G G A G G A G A A G A G G A A A C G G C C A A GAAAGGGGGAAAAAG G AA $A \operatorname{GGGAAA} C A A A G A A A A G G A A G G C A A A A G G A G A G A A A A A C C$ A A G G G G G GCC G GAAACAGGGCCAACCGAGGGGGAAA GGGGGG A A A G A A A A G G G A G G A A G A A A G G C A G G G G G G G G A A G G G G G G G A A G A A A A G A A A A TAA A G GAGGGAGAAGGGGAGAGAGACAAAAG ACAAGGAAGGGACCGGAGCCAAAAAAGGAAGGGGAGGGAAAA A GAGGAAGCCAACCAGAGAAGGACGAGGCCGGAAAAGGAAAG G G G GAGTTGGGGCCAGGGAACCGGCCACAGAAACAGAGGGAA G GAGGAAAGGAAGGAACCGGGGAGCCAAGGAAGGAGACGGGG
 G G G A A A G G C C G G A A G G G G G G G G A G G A G G A G G G A A A A A A G G A G GAGGAGGGGGAAGGAAAAGGGGGGAAGGCCGGAAAACCAGAA A A A A A G G A G G G GAA A GAAAAAAAAGGAAGGAGGGAGA GA GAA
 GAGGCCGGAAGAGGCCAAGGCCACGGGGGGGGGGGGGGGGGA G G G A C C G G A C A A G GAGGGGAGGGGAAAAAAAACCACAAAAAA $G G A G A G A G G G G G A G G G A G G A A G G G G A C C C A A A A A C A G G A G A A$ $A C G G A A A G A G A G G G C C G A A A C A G A G G G G A A A A A A G G G G G G C C$ AAAAGGCCAAAAGGGGAAGGAAGGAAGGGGGGAAAAAAAAAA AAAAGGAACCAAAAAAGGGGGGAACCGGAAAAGGCCAAGGGG A A A A A A A A C CAA $A \operatorname{GAACCGGAAGGAACCGGAAAAGGGGGGCC}$ A A G G G G A A G G A A G G G G A A G G G G A A $\mathcal{A} G G G G G A A A A G G G A G G A A$ A A A G G G G G G G G G G A G G G G A G G G A A $\mathcal{A} G G G A G G G G G A A A C A A G A$ AAAATAGGAGAAGGGGCAAGGAAAAAAAGGGGAGGGGGAGAG A G GAA A G GAGAAAGGGAGGAGGGGAAGAGGCACAGAAAGACC C CAAAAGGAAACAGAAAAGGCCAGAAGAGAAGAAGGGAACAA GAAAGAGACAGGACGAGAAAGGAAAAGAAGAACCAAGGGACC A A G G A A GA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} G A A A A A A G G A A G G G G G G G G G G C A A A G G C C$ A A C A C A A C G A A A G G A G A G A A G G A A C C G G G G G G G G C A A A A G G A GAGGGAAGAAAAAAAAGGAAAAAAAAGGGGCCGGGGCC G GAA G G G G A A A A A A G GCC G G G GAAAAAAAAGGGGAAAAGGAAGAAA G G G G G G A A A A A A A A A ACCCCAAAAAAGGAACCGGAAGAAAAA C C A A G G A A G G G G G G A A C C G G G G A A A A A A A A G GAAAAAA A $A$ A T G G C C G A G G G G A A A A A G A A G G G G A A G G G G G G A A C C G G C
$C G G G G A A G G A A A A A A G G G G G G A G A A A A A A G G A A A C A A G G G G$

GACCCCAAGGCAACGGAAAAGGGGAAGGAAGGGGAAGGGGGG $A G G G G G G G G G G G G A G G A A C A G G A G G G G G A A G G A A A G G G A A T T$ A A A G A G A A A A A A G A GCGAGGGGCCAAGGGGCCGGAAAAAAGG AACAGAGGGGGGAAAAAAAAAAAAAGCCAAGGACAAGGACCA GAGGAGGAAGGGAGGGAAAAGAGGGGAAGGCCAAAAGGCCAA
 T T G G G A G G A A G A A G GAA A G G TAAAGAAGGGAACC GAGAGAAC G G G G GAA $\operatorname{G} G \mathrm{G} A \mathrm{~A} A A A A A A G C A A G C C A G A G G G G A G G G A G G G G G G$ G G G G G G G G G G C C A A A A G G A A G G G G A A G G C C A G A G A G G G C A G G AAGGAGGGAAAAAAAGCCAGGAGGAAAACCGGAAGGGGAAAA A A G G A A G G G G G G G G G G A A C C G G C C G GAACCGGCC G G G G C A TA
 GAAGGAAGAAGAGGGAGAAGAAAATAGAGAAAACCGAAAGAA AAGGACCCGGGGAAGGGGCCAGGAAGGGAAAGGGAAAAAAAG ACAGAAACGGGGGACAGAAAAGAGAGAGAAACGGAGGGGGAC ACAGGGGGAAGAAGCAGGGGAACAGGCAAGAGAAAAGAAAAA
 G G G G G A A A GAGGGGGAAGCCGGCCGACAGGAAAAGAAAACAA A GAAGAAAGGAAAAAAGGGGGGAACCGGAACCGGAAGGAACC A A A A CCGGAAAACCGGAAGGAAAAAAGGGGCCAAGAAACCGG AAAAGGCCGGCCCCCCAAAAGGGGGGAAGGAAAAAAAAAAAA AAAAAAGGGGCCAAGGCCAAGGAAAAAAGGAAGGAAAAGGAA C C A A A A A A A A G GAAAA $A \operatorname{A} A A A G G A A G G G G G G A A A A A A A A A A A A$ G G A A G G A A A A G GAA A G G G G G G A A G G G G A A A A G G G G A A A A A A A A C C T T G G A A A A G G G G A A G G G G G GCCAAAAGGAACCCCGGAAG G AAAAGGAACCCCGGGGGGAAAAAAGGGGAAAAGGAAGGGGGG GGCCCCCCGGAAGGGGAAAAAACCGGAACCAAGGAAGGGGAA
 $A C G A G G A A A C G G G G G G A A G G G G A A A A G G G G A A A A A A A A C A A A$ A A A A A A G G A A G G G G G G GGGGAACCGGAAAAGGAAGAAAAAAA G G G GAA $A \operatorname{GAAAAAGGGGAAAAAAAAGGCCGGCCAAAAGAAAGG}$ AAAAAAGGCCAAGGAAAAGGTTGGAAGGGGAAAAAAAAGGGG A A G GAA $A \operatorname{GGG} A A G G A A A A G G G G C C G G A A C C A A A A A A G G A G A A$
 A A A A G GAAAAACCGGAAAAGGGGGGGGAAGGGGGGAAAAGGAG
 G G G GAA $\operatorname{A} G \mathrm{G} G A A A A A G G G G A A C C A A A A G G G G G A G G G G G G G G G G$ AA $A \operatorname{GGGAA} \operatorname{A} G C \subset A A A A G G G A G A A G G A G G G G A A A G G A G G G G G A$ A A A A A A A A G G A A A A A ACCA GTTAGAACAAGGGAAGGGAAA GA C CAAAA A A $A \operatorname{A} G \mathrm{G} A \mathrm{G} A \mathrm{~A} G \mathrm{G} C A A A A A A G A A G G G G G G A A G A C A G G A G$ $G G A A G A G A A G A G G G G G A A G G A A A A A G A A G G A A G G G G A G A C G B$ A A GACCGGGGAAAAGGGGCCAAGGGAAAAGGAACGACCCCCC G G G G G GAAGGAAAAACAAGGGAAAGGGAAAGGTTAAAAC CTT A A A G A A A G A A G A A C A C G G G G A A G G CAGGTTAAAACACC G G CA A GAAAAGGCCGGAAAAACCAACAAACAGGGAGCAGAAGGGAA GA $A \operatorname{A} A G G G G G G A G A G A G G A A G G G G A A G G G A C A A A G G A G A A G G$ C C G G G A A G GAA $A \operatorname{GAAA} A G G A G C A A A A G C C G G A A C C C C A A A A A G$ ACAGGGCCAAAACCAACCGGGGAAGGAGAACCAAAGAGAGCC A G G GAA $A \operatorname{GGA} A G C C A G A G G A G A G A G G A A G G G G A A A G G G A G G G$ C CAAGCGGAGAGCCTTGGAAAACACGCCAAAAGGGAGAAAAA GAAGAGCAAAAAGGAAGGAAACAGGAGGGGAAGGAAAAAGAG $G G A A A A G G A A A A G G G G A G C C C C A A G G C C G G A G G G C A G A G G G G$ A G G A G A C A A A G GAA A GAGGGTAAAGAGGAAGCCCGAACAAAA AAACGAAGGAAGGACCAAAGGGAGAGACGGACCAGAAACCGG GACAACGAAGGCGACCAAGGAGAAAGGAGGGAGAGGGGGGCC G GAAGGGGAAAAGGCCGGAAGGAACCCCAGGAAAGAAAGGAA
 $A C G A A G G G A A G G A A G G A A G G A G A A G A G G A A G G G G G G A A A C C C$ $G A C G A A A A G G A C G G A G A A A G G G A A G G G G A A G G A A G G G G G G G G$

G G G GAAAAAACAGGAAAGGAAAAGGAGGGGGGGGAGAAAGGG $A C G A C A G G C A G G A G G A G G G A G G A A A G A A G G A A G G A A G A A A A A$ G G G G A A A G G G G G G G G G G G G G A A G GAA A G T T G G A G C C G G A G A A GAGAGGGGAAGGATAAGGAAGGAAAGGGGGCCAAGGGGGAAA AA G GAA A A A A A A GACAGAAGGGGGGGAGAAAAGAAAAGGAAA GAAAAGGGCCAAGGCCAGAAAAGAAAAAAGGGCCGGAGGGCC CACGGAAGCAGGGAGGAAAACAAAAAAAAAACAAGGGGAGGG G G A A G G G G G G G GAA A GCCAACC G G G GAAA A G G G G C C G A G G A G $A C C G A G C A G A G G G A A A A A C C G G A G A A A G G G C A G G A C G A G G C A$ AACCGGGAACAAGGAAGAACAAGGAAAAAAGGAAAACCCCCC
 A A G G A A A A $\mathcal{A} G A A G G G G G G A A G G G G G G G G A A G G G A A G G A A A A A$ A G A A G G G G G A A G G G A A A G G A A G G G C A A G G A A A A $\mathcal{A} A \mathrm{~A} G A \operatorname{G} G \mathrm{G} G$ AACCGGGGGAAAGAACGAGGAAGGCAGAGGGGAGCCAGAGGG GAGGAGGAAACCGGCCAGGAGAGGGGAAGGGGGAAGAAAAGA A G G G G G GAGGGGAAGGAAGGCAGAGGAAGGGAAAGGAACCAC
 $C \subset G G C C G G C C G A G A C C G G A G G G A A A A G G C C A A G G G G A A G A G A$ AAGGGAACAGAGAGAAAACCAGGGGGACAGAAGAAAAGAAAA
 AAAAGGGGCCAAGAACAGGGGGAAAAAACCAAGGGGGGGGAA G G G G A A A A C C G GC C G G G G A A G G G G G G G G G G A A C C G G G G A G C A G G A A A A G A A A A A G G G G G G G G G G A A G A A GACAGGGAAA G G CA C G G A C G G G G G G G G C C A G A A A A $\mathcal{A} G G G A G G G G A G G G A A G A G G G G G$ G G G G A G G A G A C A A G A C G A G G G A A G G G A C A A GA G A TA G A G G A G
 G G G GAAAGGAAGGGGGAGAAAGAAAAGGAGGAGAACAGAAGA G G A A C C G G A A G GCCAAAAGGGGCCGGCCGGGGAGAAAAAGAC A G GAAA A GAACCAGGGAGAGCAGAAAGACAAGAAAAGGAACA AAAAGGAAAAGGAAAAAACCAAAAGGAGGACACAGAACAAAA G G G G G G A G G A A G A A A G A G C A A A G G G GAAAAAAAG GAACCGGGG AAAACCAAGGGGCCAAGGAAAAGGAAAAAAGGAAGGAAGGCC AACCGGAAAAAAGGGGAAAATTGGAAGGAAAAGGGGGGAGAA C C A A G G G G G G G G G G G G A A G G G G A A A A C CAA A G G GAAA A A G A G G G G G A GAA $A$ A $A \operatorname{G}$ GAAAAACACGGAAAAGGAGAGGGAGAAAAAA G G A G A G A G A G A C C C G G A A A GAGCAGAAAGGAAGGCCGGGGCC $C \subset C C C C A A G G A A G G A A A A C C C C G G A A A A A A A A A A G G A G A A A G$ AAGGGGGGAACCAAGCCCAAGGGGAAAAAAGGAAGAGGAGGG G GAGAAAAGGGATTAAAAAAGGGGCCGGAACAAAGGGGCCGG A A A ACCCAAAA GTAAGACCCGAACGGGAGGAAGGAAAACCCC $G G A T T T G G A A G A G G G G G A G G G C G G G A G G G G C A A A C C A G A A G A$ C C G G G G A A C C G GAGAGAAGGGAAAAACCGGAACCAAAAAAAA
 G GAACCGGCGCCGAGGGGGGAAAGAGGGAGAACCAGAAGAAG A GAGGAGACCGAGGGGAACAAAAAGGAGGACAAAAGAAAAGG A G A G A A G A G G T A G G G G A A G G G A A A A A G G A A G G A A A GAA A G G A
 G GAA $A \operatorname{GAA} C \subset A C A G G A G G G A A A G G A G G G A G A G G G A A A A G G A G$ GAAAAAGGGGGACCGGAGAGCAAAGGAAAGAAAGAACAAAAG A G G G G G G G A G A GAAAA A G GAAAACCAAAAGGAAAGC GAAAAAG GAACAACCGAGAGAGGAGAAGGGGAGAAAAGGACAGAGAAGG $G G A A G G A A G G A A A A G A G A G G G A G G G A A A A A C C A G G A G A A G G G$ $A G C C G G A A G G A G A G G A A G A T A A G C G G G G A C A A A G A C A G G G C C$ AAGGGGAAGGAAGGGGGGAAAAGGGGGGGGCCAACCAAAAGG G GAAAAAAAAGGAAAAAAAAAACCAAAAGGGGGGAAAAAAAG $G G A A G G A A G G C C A A G G G G G G A A C C G G G G G G G G G B A A G G G G G G$ G G G G G G G G A A C C A A G G A A A A A A G G G G G GAA $A$ G $\operatorname{A} A A A A C C A A G G$ AACCGGAAGGCCCCGGAAAAAACCAAAAAAGGGGGGG
G G GCCAAGGGGGGGGAAGGCCAAAAAAAACCGGAACCBAAA

G G G G A A A A A A CCGGGGAAGGCCGGAAAAGGAAGGAAAAGAAA
 A A A A G G G G G G A A A A A A T T G G A A G G G GCC G GAA G G G GAA G GAA G GAAGGGGGGAACCAAAAGGGGGGAAAACCAAAACCGGAAAA G GAA $\operatorname{G}$ GAGACAGCAAAAAAAACGGACCAAAAAGAGGGGAAGA G G G GAGCAGAAAGAAGGGAAGGAAGGGAGGAGCCGGAAAAGA A A G G G G G A A A A A A G G G A A A GATGGAGGGGGGGAAAAGBAACA $G G A A G A A A G G A G C A A A G G A A G G A G C A G G G G A A A A A A A A A A A G$ G G A A A A A GCA G GAGGGGGAAAGAAAACAGACAACAAGGAGAA AACAGCGGGAGGAGAAAAGGGAGGGGCCAAGGAAAAGGGAGA GACAAGAAGAGGAAAAAAGGCCGGGAAAGAGAAGCGACAGAG G G A A A G G G G G GAGGAGAACCGAGGAAGGACGACCAGACAGAG GAAAGGGACCGAAGGGAGGGTTAACGAAAGAAGAAAACAAAG A GAGAGAAGAAGAGAAAAAAAGGAAGAAGGGAAAAAACAAAA G GAA $A \operatorname{GAA} A G G G G G G G C A G A G G G G G A C A A G C A G A C C G G G G G G$ $C \subset C C A A A G G G G G A C A G G G G A A G A A A G A G G A G G A A C C G G A C A G$ ACAGAACCAAGGGGCAGAGGGGAAGAAGAAGGAGAGAATTAA A A G G G GCCAAGGGGCCGGGGGGCCGGAAAGAAAAAGAACCAG A A A A A $\mathcal{A} G G A G G A A A G G G G G G G G A A G G G G G A G A G G G G A G G G A A$ G GAGAAAAGAGAAGAACCAAGGCCCACAAGAGGGAAAAAAAG G G GAAAGGGGCCGGAATTAAAAAAAAAAAGAACCAGAAAAAA A A A A A A A GAGGGCAAAGGGAAAAGCCAAGGGAAAAGACGGAG AAAAACGGAGAACCGAAAGAGGCCCAGGCAGGCCACAGAGAA A G GAGGCCAAGGGAGAGGAACAAGAAGGAGAGAGAAAAGGCC AAGGGGACCAAACCGGGAAAGGAAAAAACCGGAGGGCAAA G G ACGGGAAAGGGGGGAAGGACAGAAAACCCCGGGGAAGGGGGG $C \subset C A G G G G C C C C A A A C G G A A A A A A A G G G G G G A G G G G A A A G G G$ G GAACAGAGGGGGGAAAGCCGAAAAACGGGAAAAGGGGAAGA A A A A A G G A GAAAACAAGAGAGCGGGAAAAAGGGAGAGAAGAA $G G A G A G G C G G G G G G G A A G G G G A A T G G G A A G G G G G A G A A C A C B$ A G G G A A G A G G G G G A A C A GAGGGGGGGCCCACCAA G GAAAA GA A GAA A G G G G GAGAAGGGAAAGAAGGAGACAGGAGAGAAAGTT AAAGCCAAAAGGAAAGAAGAAAAGAAGGAACCAABAGGGGGA A G G G G A G A G G G GAAAA $A \operatorname{A} G A G A A A A A G G A A G A A G G A A A A A A G A$ GAACCCGGAGAGGGAAGAACCCAAGGCCAAGGTTGGAAGAGG GACCAGGAAGAAAACACAAGGAAAAAGAGGGGAAAAAGAAAA AACCAAAGCCCCGGGAGAAGGGAGACAGGGAAGAGGAAAAGA A GAGGGGGAGCAGCGAAAAAAGCACGGGGAAAAAAGGGGGGA G G G G A G A G A A A G G A A A A GAA $A \operatorname{AGGAGGAACACCGGACAGAGAA}$ GAAAGGGAAAGAGGAAAAAACAAAGGGAGAAGAAGGABAAAA $A A C C A A A C A G A G A G A A G A G G A G A C A G A G G A A G G G A A G G A G A G$ G GAGCCAGGGGGGGAAAGGGCAAGAGAAAAAAGGGAAGGGGA G GAGGGAAAAAAAAGAAAGGAGAAAGCCAAGGAGAGGGAAGG AAAGGGCCAAAAGGGAGGCCAAAGGAAGAAAGAAGACAAAAA G G G G G A A A A CACAAAAAA $A \operatorname{A} A G G A A A C G G A C A G G G A A G G A A G A$ GAGGGAGGAAAAAAAAACGAACGGAAGGGGGGGGAGAGAGAA AAGGAAGAAGCAAGAGGGGGGGAGCAAGAAATAAGAAACCGG AAGGAAGGAAAAGGGAAAGAAAGGAAGGGGGGAGGGCAAGAC GAAGACGAAAAGAAAGGAAAGGGGAGCCGAAACAGGGAAAAA $G G C C G A A G A G G G A A G G A G G A G G G G A C A G G G C C G G A A A A G G A A$ G G A A GACCAAAGGGGGCCGGGGAGAAAAAAAG
$11019000-9$ A A A G G G C C G G A G G G G G A AC G G GAAAA A A A G G G A A A A G GAACCCCCCAAGGGGGGCCGGAAGGAAGGCCAAAAGAAA $C \subset A A A A G G G G A A G A G G G A C C G G G G A A G G C C G G G G C C G G A G G A$ G GCCAAGGAAGGGGAAGGAAGGAGAGACGGAGAAGGGAGAAA CAAAAAAAGGAAGGCCGGAGCCGGGGAAAAGGAAGGGAGAAA C CAACCGGACCAGGGAGAAGAGAAGAGGGGGGACAGCCAGAA A G A G G A G G A G G G G G G G G G G G G A A A G G G G C C G G A A A A G G A A G G GGAAAAAGAACCAAAAAAAAAGAACCGGGGGGCCGGAAAGGA

A A A A A A A A A GAGAAAAGGAAAAAAGGCAAAACGGGGGGGGAA A A A A G GAACCGGGGAAAAAAAGAAAAAAAAGAGCAAAAAA G G GAGGGAACAGCAAACCGGAGAAGGAGTAGGAAAAGGTTAAAG AAGGGGAAGGAACCGAGGAAAAAACATTCCAGAGCCAGAGCC AAGGCAAGGAGGAAAACAAAAAGAAAGGAGAAGAACGGAAGAA G G A A G G A A A G A A G G G G A A A A A GAGAAGGAGGGAAAACAGGAA AA GAAAGAACAGACGGCAGGAAAACAGGAAAAAAGGAGGGGG AGAAAAAAGGAACCGAGAGGAGAAGGACAAAAAGAAAAGAAG G GAGGACAGGAAAAGGAGAGAAACAAAGCAGAGAAGAACAAA AAAAGGGGAACCGCCGAGGGAGGGGAGGAGAGCAAGAAGAAA A A A A A ACCAGAAAGGGCCAAGGGGGGGGCCGGTTGGGAAAGG A GAAAACCGGGAAACAAAGAGGAACAAAGGCCGGAAGGGGAG C CAA $A G A G G G A A A A A C A A A G A A G G G A C C A G G G G A A G G G C C A G$ C CAA $A G C C G G A A A A A A G G G A A A G G A A A C G G A A A A C C G G A G A A$ G GAA A GAAAAGGAAGGGGGGGGGGAAGGAAGGGGAAGAAAGG A A G G G GAA A G G G G GAAAAGGGGAACCGGGATAACA GAA G GAAA G G A A G A G A G G G G G A G G G G G GAC $\mathcal{A} G G G A A G G A A G G A A A A G A A C$ GAGGAAAGATAAGAAGGGGGAAAACCGAGACAAAACGAGAGG AAGGGAAGGAAACCGGGGAAAGAGCCAAAAAACCAAAGAAAG A A G A A G G G A A C C G A G A A A G A C C G GCCGGAAGGGGAAGGGGGA AGGGGGGGGAAGAGGAAAGGCCCCAAAAAAAAAAGGAAGGAA AACCCCAACAAAAAGGGAAAAAAGGAACAAGACCGGGGGGAG CAAAAAAGAAAACCGAGGAGAAGGGGAAAAAAGBAAGGGGCC G G G G G G A A A A C C A A G G G A A G GAGGAGAAAAAAGGCCAAAGGG AAGAGGAAAAGAAGGGGAAAACAGAGGGCCGAAGAAAAAAAA A G G A G A A G A G T A A G G G A A G GAGAGCCATAGCAAAAGAAAACA
 A A A A G A G GCCGAAGAGAGCAGAAACCAGAGAAGACCGGAGGG GACGAGCCAACCAAGGGGCCAGAGCAAGAAGGCCAGACAGAA GGACCCAGCAGAGAAGAGAAAGAACAGGAAAGAGGGAACAAG
 AAAAAAGGAAGGAGGGGGAAGGGGAGAGCCGGGGGAGGAGAG
 G G G A G G A G G G G G G G G G A C A GAGGGGAAGGAGGCAAAAACCCC G G G A G GA $\operatorname{A} A \mathrm{~A} C \mathrm{C} G \mathrm{G} G \mathrm{G} C \mathrm{C} A A A A A A A G G G G G G G G G G T A A G G G C A$ GGCCCAAAAAGGAACCCAGGAGGGAGCCAAAGGGAGGGAAAA AACCGGAAAGAGAAAAAGAAAACCAAAGGGACCCGGGGAAAA AA $A G A G A T C A G A A G G G C C G G G G A A A C G A A A G A G G C C G G A A G A$
 G G A A A G G G G G G A A A A G G G A A A A A A GGCCGGAC GAACCACAAA A A GAAAAAGGGCAAAAAAAAAAGGGGGACCAAACAAAAGGAA G G A A A A G G G G G G A A C C A A G G G G A G A G G A A GAAA A C C G C A G G A G G GAGAAGAACCAGAAAAAACCGGAGAGAAAACCGGGGGGGG A GAAA AACAAAGGAAAAGGAAAAAAAGACAAGGGGGAAGGAA A GAGAAGACAGAAAGGCCGGAGGGCCACAAGGAGACAAGAGG GAGGAAAAAACCGGCCGAGGAACCCACAGGGGAACCGACABG AA A GAAGGAAAAGGGAAAACGAAGGGAAGGAAAAGGAACCGG G GAACCAAAACCAAGGAACCAAGGCCCCGGCCGAGGAGAGAG GAGAAAAAAAAAGGCAAGGGCCGGAAAGGAAAGAGAAAAGGG A A A GAGCCAACCACGGAAGGAGGAAAGGGAGGGAAAGGAAAG G G GAGAAAAAAGAAGGAAGAGCAGAAGGAGAAAAGGCCBGGA A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCGG A A G G A A G G G G A A A A A G A A G G G G C C A A G G A A A A A A C C C A A G A G ACGAGGAGGGAAAAAAAAACAGAGGAACAGGGAGGGGGGGGG A A A A A A G G A A A GAAGGCGTTGGATGAAAAAAAAAAAAACCGG G GAGAGGAGAAGAAAAAAGGGGGGAACCAAGGAAAAAAGGGG A A G G A A G G A A G G A A G G G GCCAAGGAAGGGGCCAGGGGAAA G G A A A A A G G A T T A A A A A A C C A A A A G G G G G G A A G G A G A G G G A A G G AAGGGGGGCCGGCCGAGGAAAAAAGGCCGGCGAAAAGAAACC

G GAATAGAAGGAGAGGCGGCAGAGGGGGGGAAGGAAGCAAA G G G A G A G G G G G GAA $A \operatorname{G} G A A G G G G G A G G A A C C A A A G G A A G A G A G$ C CAAAAGGAAAAAACCAAGACCAAAAAAGGAAGGACAGAGAA G GAAAA AA GAGAAAAAAAAAAACCAAGGAGGGAGGAGAAACA G G GA $\operatorname{G} G \mathrm{G} G A A A A A G A G G G G G A A C A G G G A A G G G G G G C C C C G G G G$ G G A A G G G G A A A A G G A A G G A A GAGGCCGGGAGAGAA GAAAA G G A A A A A A G G A G A A G G A G G GCCGGGGGGAAGGCCAACCAA G GAG GATTGGGGAAGGGGAAGGAAAAGAGGGGGAAGGAAGGGGGGG A G A A A A A G G A A G A A G G CA $A \operatorname{GGGAGGAAAAAAAAGGAAGGGGAT}$ AGGGAGAGGAAGGAGAGGGGAGAAAAAAACAGGGGAAGAAAA
 G G A A G G G G G G A G A A A A A $A \operatorname{GGGAA} G G G G G G G G A A A A A A G G G G C C$ G GAGCCGGGGAAAAAAGGGGAAGGAAGGGGAAGGAAGGAGAG G GAA A G G G G G A A A A GACCAACCAGGGAAAAGAGGGGAGACAA GAAAGAGGGGAAAAAGAAGAAGGAAAAAGGAAAAGAGGAAAA

 GAAGCCGAGGATGAAGCCGGAAAAGGAAGGAAGAAAGGGGGG
 ATGAAAACGGGGCATTGGAAGGCCAGGGAAGGGGCCABAABA G G G G G GAAAAAAGGAACCGGAAAAAGGAGAGAGGGGGAAACAC AACCAGGGGAGAAGGAAAGGAAAGAAAACCAGATGGAGAGAA A A A A GAGAGGAGGGGAAAAGGAGAGAGGGAAGAAGAGAGACC AACCGGACAAGGGAGGAAAAGAAAGGACAGCCAGAAAAAAGG
 AAAAGGAAAAGGGAGGACACAAAGGGACAGGATACAGGAGAG
 G G G G G A A A A A GACAGGCCAAGGAAAAGGGGGGAAAAAAGGCC AACCAAGGAAGGACCCGGGGAAAAAAAAAAGGAAGAAAGGAA GAACCAAGAGAGGAGGATACGAGAGGACCCCAAGCAGGCCGG A G G GCCCCAACCGGAAAGAAAGGAAGCACAGGAAGGGGCGAG AAAAAGAAAGGAACGGGAGGCAGGGAGAGAGAGGGGGGAAAA G GAA A G G G A A A A A A A A A A A A C C G GAAGGGGGGAAG GAAAAC C GGCCAAGGCCAGGGAGAGACAGGGTTGAGGGGCAGAAAAAGG G GAA A GAAAAAAGAGAGGAGAAAGAGGGAAGGCCAAACAA GA A A C A G A A G A $\mathcal{A} G G C C G G G G G G A A C C G G G A A G G G G G A A A G A G A A$ A G G G G G G G A A G GAAAAGGAAGAAGAAAGACGAAAGGAAAACC G G TAGGCAAGGGAAAAAGGAAAACGGCAAACCAGAGAAAGAG GAACGAAGAAAGGGGAGGAGAGGAGGCCAAAAAAGEACAAGG
 AAGGAAGGAGCCGGCCGGCCGAAAGGAACCGGGACAAGAACC A A G G A A G G C C G G C A G G G G A A A C A G G GA G C A A C G G G G A G G G G G AGGAAGAGAGAGGGAACCGGGGGAAAGGAAAAAAGGGCAAAA
 A A C C A A A A A G T A CAAA $A \operatorname{GGGAACACCCCCCAAAAGACCGGGG}$ A A A C A A G G G G G A A A A A G GAGAGCCAAAACCGGGGGGGAAAC C C C G G A A G A GACCAAAAGGGAGAAAAAGGAACCGAAAGAAGAA
 GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGCAAAG $A G A A C C G G G G C A A G G G G G A G A G A A G G A A G G G G G G A G G G A A G A$ $G G C C C A G A G A G A G A A A A A A G A A C C G G A G A A C A C A G G$
AATAGGAGAGAGGGAAAAAAAAAAAGAGGCGGAAGAAAAGG ACAAAAAACGCCAGAGAGAAAGCGGGGGAACCCCAAGGAGCA G GACGGGGGGAGGAGGAAAGGGCCGGAAGGAGGGGAGAAGGG A G G G A A GAGGCCGGGACAGAAAGGACAAAAGGCAAAACGGAG A G G G G GAGAGAGAGAAAGGGCCAGACGGCACCGGGGAGACCA G GAGGGAAAAAGCAGAGAAGGAGGAGAAAAGGCCGGCCAAGB $A C A G A A G G A A G G G G G A A G G G G A A A G G G G G G G G G G G G A A G G G G$ $G G C C A A G G G G G A A C T T C C G G T T A A A A A A A A G A G G G A A A A A G G$

GAGGGGAGGAGGAGAAGGGGAAAGGACAAGAGGGACGGGGGG
 AAGGAAAACCAAGGAAGGCCGGAGAAAAGGAAAAGGCAAAAG GAGAAAGAGAAGAGGGAACAGGCAAAAAAAAGAAAAGGCCAG A GCCGAAGGGGGGAGAAAGGAGGGGACAGAGGGGAGAAAAGA A A A A A A A G A G G A A G A C G GCCAGGGACGGAACCAGAGAAGAAA A G GAGGGAGGAGGGCCAAAGAGAGAGAAAGGAAGAAAAAGAA AAGGCCTTAAAAGGAAAGGAGGGGAAACAAAGGGAAAAGGGG GAGGAGGAAAAAAGAAAAGAAGAAAGCAGAGGAGBACAGGAA A A A A A A G GAAAGAAGGAGCCGGGACCGGAAGAAAAAGAACAA GACCCCAAAAAAAAAAAAAAGGAAGGGGAAAAGGGGGGAGAA G GAAGGGGAACCGGGGGGAAGGGGGGAAGGAAAAAAAAAAAA G G G G A A A A A A G G G G A A A A A A G G A A A A G G A A A A A A G G A A A A A A G G G G A A A A A A A A A A A A G G G G G GAAAAGAAGGGGGACAAAAGAG AAGGGGAGGAGACCGAGAAGGGAAGGAACAAGGGGAAACCGG G G GACCGGAGATAAGGAAAGAAGAAGGGGGAAGGAGAGAAGG A GAGAAAGCGACGACCAAGGGAACCACAAGAAACCCAAAAAG AA $\mathrm{A} G \mathrm{~A}$ GAAAAAGGGAGAGAAGGCAAAGAAAGGAGBAAGAAGG AAAGGACCGGGGGAGGGGGGAGAGAGCGGAGGACGAAGAAGG G GAAAAGGAAAGGATTGGGGAAAAAAAGAAGGGGGGCAAGAC CAAACCAAAAGGAAAAAACCAAGGGAGGAAGGAGGGAGGGAG A A A A G GAA A CA A GAAGGAAGGGGAGGAAGGAAAGAAAAAAAA
 A A A A A A $G G G G A A A A G A A G G G A G G G G G A A A G G A A A A A A A G G C C$ CAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G A A A A A G G G G A G G G G G C C G G A A A A A G A A G G A G$ AAGGAGAAACATGGCCCCGGGACCAACAGACAAGGAAATAGG GAA $A \operatorname{GA} A A A G G G A A G A A G G G A G A G A A A A G G G G C C G G G G A G G G$ CAGACCGGGGAGGGGGGAAGGAGGGGACGGGAAAGAAAAGGG A G G G G G G G A G G G G G A A T T G A A G A A A GAGGAAGGAAACAAAAA A A A A A G A A A A A A A A A A GGGGAAGCCCGGAAGGAAAAGGAAAG C C G G G G A A A T A G G G GAACAGGAGGCCACGGGAGGCCGGAA GA AGGAAACCAAAAAAGGCCGGAAAAAAGGTTAAAAAAGGCCAA CCGGAACCAACCAAAAGGCCAAGGGGCCAAGGGGGGAAGGAA AAGGAAAAAAGGCCAAAAAAGGAACCCCCCGGCCCCACAGAAA A G G A A A A A G G T T G A G G G GC C G G C A A A G G G A A A G G A A A G A G G A CA G A A A A A G G A A A G G G T T G G A A G A A G C C A A G G A A A A A A G G A A GAGGAAGGAAGAAAGGGAGGAGAGCCGGGGAAAAGGAGAGAA CAGAAAGAGGAGAAAAAACCCCAAAAAAGGAAGAAAAAAGAG GAAGAAAAAAAAAAGGGGAAAAAAGGGAGACAAAAAAAAAAA GAA $A$ GAAAAAAGAGGGGGGGGGGAGAAGGAAGAGGGGGAAAGA $A C G G A A G G A A A C C C G G A G A A A G G A A A A A A A G G A G C C G A G G A G$
 AAAGACCCGGAAGGGGCCAGGAAGACGGGAAAGGGGCAGAAG CAGGACAAAGAAAGGGAAGAAGGAAAAAAAGGAAAGGAAAGA GAAAAGAGGGAGACAAGGGGAAGAAAACGGAAACGAGGAGAA G G G A A C T A $\mathcal{A} G G G C C G G G G G G G G G A A G G G G G G G A A C A G A A G G G$ $A C G G G G A A G G G G G A A A G G A A G G A A A A A A G G G G A A G G A G A G A G$ GAGAGGGGGGAAAGAAGGAGGGCCGAAGAAAGGAGGAAAGAG G G G G G G G G A A G G G A G GAC $\mathcal{A} G G G C A G G A A G G G A G G G G C C A A C A$ G G A A A G G A A G G A GAGGAAAAGGAGTTAAAGACGAGAGAGAAA A GACAAGGGACCAAAGCAGAAGGGGGCCGGGGACTTACAGGG A GAGAACAGAGGCCAAAAAAAAGGAAGGAAAAAGAAAGAGAA G G G G C A A G A GCAGGCACCGGAAGACCAAGAAAGAGGGBAA G G G GACAAGGGAGGGGACAGGGAAGGAGGGAAAAGGAAGGGGCA A A G GCGAGAGAAAAAAGAGGGGCCAAAAGGGAGGGGAAAGAC CAACGGGGGGAAGGAGGGAAGGGGGGAAGGAAAGGGGGAGAA GACCAAGAACAAACAAGAAGAAGAAGAAAACCGGAAAAAGAA A A C G A A A A A G A C G G G G G G A A A G T A A GAAAA A GAAC C GA G G A A AACGAGTAGGAGAAGGAAGGAGAAGGCCAAAAAGGGAAAACC

A G A A A A A A G GAACATACCGGGGAAGGTTCACCACAAGGAAAA GAGAGGAAAAGGAAAAAGAACAAAGGAAGGGGAAAAAAGGAA G GAA $A \operatorname{A} G A C C A G C A C C A G G G A G A A G G A A G G G G A G C A A G G G G G$ G GAGGGAAAGAAGGAAAGCAGGGGAAAAGGGGAAGAGAAAGA A A GAGGGGGGGGGGGAGGGAAGAGAGAGAAGGGAAAAAGGGG G G A A A A G A A G A G G G A G G G G G A A A A A A G G G A A G G G A G G G A G A T G G A A A T G G A A G GAA $A \operatorname{GAAAAAAAGAGAAGCCAAAAGGGGCAAA}$ AAAGCAACGGAAAAATGAAAGAATAAAAGGAAGAGGGGAAGAG G G G A G A A G G G A A C G G G T A C C A G A GACGGAACCGGGAAA G GA G G GAAGAAAGAGGAAACGAAAAACCAAAAGAACGAAGGGGGGG G G GACCGGCAAAAAGGGGAAAAAAAAAAGGGGGGGGAGCCCG G GAGCGGAGAGGGACCAAGGGGGGGGGGAAAAGGGAAAAAGA A A A A G G G G G G G G A A G G A A G G A A C C A A G G G G A A A A G G T TA A G G C C A A C CAAAAAAAAAAGGAAAAGGGGAAAAAAAACCGGGGGG G GAAAAAAGGGGAAAAGGAAAAGGGGCCAAGGAAAAAATXAA $C \subset A A C C G G G G A A A A A A G G A A G G A A A A G G A A A A G G A A A A G G A A$ GGCCAAGGAAGGAGAGCCCAAGAAAACCAGGGGGCACCAGAG G GAACCGGAAGGAATAAGGGGGAAAAGGGAAGAGGGAGGGGG A GAGGGAGAAGGTTAAGGAAGGGGAAAACCAAAGAGACAGAT G GAGAGCCGGGGGACCGAACCAGGGGCACAACCCTAGGTATT GAAAAAGGAAAAAAAGAAGGGGGGCACAAAAAAAGGGGAGGG G G G G G A A G GAGGAAGAAAACAAAAGGGAAGAAGGCCGGAAGA G G A A A A A A A A G GCAGACCGACGGGAGAAAAGAGGGGAGAAAA G GAGCCAAAGATGGAAAACAGACCGGGGGGGGCAAGAAAAAA A A A A A A A A A G G GAAAAAAAGGATTCCAACCAGTTGGAAGGCA G G GAGAAAGGAACCAAGAGGGGGGAAAAAAAAAAAAAGAGAA A G G GAAAAACAGAAAAAAGGGACCACACGACATTGGAAAGAA GAAGCAGAGGAAAGAGAACCAAAAGGAGGGAGCAAAAAAAGB G GAACAGGAAGGGGAAGGGGGGAAAAAAAAGGGGGGAACAAA AAAGAGCCAAGGGGAAACGAAACCGGGGAAAAACAAGACAAA $G G C C A A G G G G A A G G A C A A G G C C G G G G G G G G G G A A A A G G A A G B$ $C G A A A G G G G G G G A A A A A A G A A A C C G G T T G G A C G G A C G G A A A A$ A G TA A A A A A G G G G GAGAGACAGGGAAAAAAAAGAAACAAGAG C A A A A A A G A A A G G G A A $G G G A G G G G G G A A A G A C A A A A C C C C B A$ GAAGACGAAAAAAGCCGAGGGCGGGACGGGAAAAAGAAAGAA A G G G A G A G G G A A A G G G A A G G C A A A GAC CAAAA A G G G C C G G A A GAGGAAAATTAAAAAACCGGAAAAAAGAGAGGCAAAAAGAAA GAAAGACCCCAACCAAGGAAGGAAAAGGAACCCCAAGGAAAA G GCCAAAAAACCAAAAAAGGCCGGAAAAAAGGCCAAAAGGCC G G A A A A A A G GCCGGCCAAAAGGAAAAAAGGGGGGAA GAAAG G AAAAGGAAAATTAAGGAAGGAAAAAAAACCAAGGAAGGCCGG G GCC G G G GCC G G G G G G A A C C G GAAAAGGAACCAACCAACC G G GAAAGGGAAGGGAGCCGGCAAAAAAGGAAGGGAAATAAAAAA C C C C G GCC G GAAGAAACCCAGGGGGAAAAAGAAAAAAAGAAA A A A A T T G A GAA A A GAA A A G GAGGGAAAGGGCAGGCCGAAAAA G G G G G G G G G A C C G G A A A C A G C C G G T A G G G A G G C C A G A A G G A A A A G G G G G G A G A GA $\operatorname{A} G \mathrm{G} G \mathrm{G} G A A A A A A G C C A G A G G A G G A A A A A A G A$ GAGAAGGAATCAAAGAAAGAAGGGAGGACAAATTGAGACCGG A A GAAA A A A A A A A G G GCCCCGGATGGAACACAAAGGGGGCAG G G A A G A C G G GCGGCAGAAAGGGGGGGGAGAGGAAACAA GAAT GAGAGGGAGAAGGAAAGAAAAGGGAAAGGAATGGGGA
AAAAGGGAAGCGGAGAAAAGGAGGGGGGAACAGAGAACAAA GGCCGAAGCCAACCGAAGGGCCAGAAAACACAGAGGGGGAGG GGAAGGGAAAACGGAGGAGAGGAAAGAAAAAAGGAAAAAAGG G GACAAGGGGAAAAAGCCAAAGACAAAAAGCCGGGAAATTGG $A G C G A A G G A A A A G A C C G G A A C C A A G G G G A A C G A G A A C C A A T X$ A A A A A A A G A A A A A A G G A A A A A A G A A A GA G GAGAGGGGGAA G G $G G G A G G G G G G A A A G C A G G A A A A G A A G G G G G A A G G A A G A A A G A$ $A G C C A A G G G G A G G A A A C C G G G G A A G G G G A A A A G G G G A G A G G G$

G GCCGGAAAAGGAAGGCAAGGAGGAAGGGGAGTTCAAGAAGG $A G G G G G A A G G G A G G G A A A G G C C A A G G G G G G G G A A G G G G G G G A$ C GAGGCGGCAAGAGGGAGAGCCAAGGAGGGAAGAGGGGAAGG AAGGAAAAAGGGAAGAAAGGGAAAAACCAGGGAAAAAACCGG A A G GA A A C G G G GCCGGGGAAGAAGAAGGAGGAAA G GAGAA GA G
 A A A G A GAA A G G GCCAAAGTAGGAGAGAAAAAGTTCCAGCCGG G G G GAAG $A$ A A A G GAA $A \operatorname{AGGGGGGGAGAAGAAGAGGAAAAGAGCC}$ AA G G A A G G A A G G G G A G A A A A A A A GAGACCAAAAATTAAAGAA AAGGAAAAAAGGAAAAAAAGAAAGGGGGCGAGCCTTGAGGGG G GAGGGAAGGGGGACCGGGGGGAAGGAACCGGGGAAGAAAGB A A A A G GCCAAAAAC GAGAAAAAGGAATTAAAAAGAAGGAACC $G G A G A A G G A C G G G A G G G G C C A A G G G A A G A G A A G A A A G A G A C C$ T T G A A G G A A G A G G G G G G G G G G G G G A A G G A A C C A A A A G G G G G A AAACCCGGCAGGGGAAAAAGAGAAAAAAAAAAAAAAAAAAAA $C \subset A A G G A A G A A G G G A A G C G G A G G G A G G G A G A G G A G A G G A G A A$
 A A G G A GACAGAAAACCAAGGGAGGACGGGGAGGGAACAAAGA CCAAGGCCAAAAGGAAAAAGCCGAGAGGAAGAAAAGAGAGAA A A GAA A G G G GAA $A \operatorname{A} G A A A A G G A A A A G G A A A A G G G G G G G G A A G A$ AAAAGGAGACGACCGGAGGGGGGGAAAAGGGGGGAAAAGGGC A G G GAAAAAAGAAAAGGAAAGAAGGGAGAAGAACCCCCAGAA CAAAAAGGGGAAAAGGGGGAGGCAAGAGGGAAGGGACAAAAAA C C A G G G G G G A A A A G G G A A A A A G A A GAGGAGCAGAGAGGA GA G $A G C C G A A G G A G G G G G G G A A A G G G G G G A A G G A A A A G G A A A A A A$ AA $A \operatorname{GGGAA} A A A A A A A A A C C C A A G G G G A A G G A G A G C A A A A G C C$
 C CAAAAAAAAGAGGACGGAAGAAGGGACGGAGAAAAAAAAGB GAGACCGGGGGGGGAAAAGGAAACAAGAGGACAAGAGBAGAA
 A G A G A G G G G G A A G G A G G G C C A A A A G A A A A A A A G G A A A A C C G A AAGGAAAGAAGGCGAACCACGGAAAAGGAAGGCCGAGAACAA G GAA A GACAGACGGGGGAGAGGAAGGAAAGCCGGGAGAAAAAA C C G G A G G G A G G A G A A A G G T T G G A A A A A G GAAAA A A CAAA A A A AAGGGGCCACGGAAGAAGAAAGAGGGCCGGGACCAAAAAAGG A A A G G G G G G G A A A G A A G GA A A A A G G GGGCAAAA A A G G G A A A G A GAA $\operatorname{A} A A A G G A A A A G G G G A G A A A A A G A A C A G G C C G G A G G G A G$ A G G G G G G G G GAACCGGAAAGGGGGAAGGCCAGATGGGACCAA A A A A A A G G A A A A G G G G A A G A A G A A GAA A A A A A A A A A A A A A G G G GAGGGAGAAAAAAAGGAGGGGAAAGAGGGAGAGCCAGCCCC GAGAAAGGAGGGAACCAGAAGGGAAAAAAAGGAAAGAACCAG A A A A A A A G GAGAAGACAAAAGGAAAAAACAAAAAAAGAAAAG GAAGAAGGAGGGGGAAGGAGGAGGGGGGCCGGCGAGGGACAA CACCAAGGAAAGCAGAGGGAAAGGAACCAAGGACAAAACA GA ACAAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} A A A G A G G A A A A A G G G G G G A G G C G G A A A G A A A G G$ GAAACCAAAAGAGGCCAGACGGGAAGAAAGAGGAAAGAGGGA A G G GAACCAAAGGGAAAAGACCAAAAGAGGGGAAAAAGAGCC GAGAAAGGGGGAAATAAGAAAGACAAGGAAGGGGGGGGAACA A G G GCCAGGAAAAAAGAGGGAAAGAAAAGGAAAGGGGGAAAA G GAGAAAAAAAGAGGAGAAAGGAAAGCCGGAAAAGGGGGGCC G G G G G GCCGGAAGGCAACGAGAGGAACCAAAAAAAGAGAGCA G G G G GACAGACCCCGGAAAGGGGGAAAAAACCTTAAGGCCAA G G G G G G A C A A G GAA A A A A A GAA A G GAGGGGAA GAA GAGAA G G GAGAGGGGGAAGAAAAAGAGCAGGGGGGGGGGGGGGAGAGGG AATAAGAGGGGGAACCAAAGGGAACCAAGAAAACAGAGAAGA A A A A A A A A G GAAGAAAGGAAAACCGAGAAAAGCAGGCAAA GA G GAGAGGAGGAAAGAAGAGAGAAAGGCAGGGGAAGAGAAAAA A GAGATAGAAAAAAAGGAAAGGAGAGGGATGACCAACCGCCC AAAAAAGGGGGGAGAGAAAAAAAGAGGAAAGAGGGCCCAACA
$A C G G A A G G A G G A G G A A A A G G A G G A G G G G G G A G G G A G C A C A G G$ GACAGAAAGCAGAAAAGGAAAACCAAAAGGCCCCGCGACCBG A G A A A G G A C A G A G G G G C C A A A C G A G G CAA A A A A A G G GA G G C A G GCC C G A A G G G G G A GCAGGGGGGAGGCAAAAAGGAAAAAGAA
 G G G G A A G G G G A GACAGAAAAGGAACGAAAAGGAACAAAGGGG G G G GCA $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{C} C A A A A A A A A A G A A A C A A A A G C A A A A G B A A A$ GAGAAAAGGGAGAGAGGGAAAGAGAGGGGAGAAGACGAAGGA G G G A G A G G G A G A G G G A G G G G A G A A $\mathcal{A} G G G G A G A A A G G A G A A A G$ GAAGGAAGCCAGAGGGAAAAAAAAAGAAGAGAAGGACAAGGG A A G G G G G G G G G G A G G G G G G G G G A T G A G G A A $\mathcal{A} A A A G G G G G G G G$ A A C C A A A A G G A A GCAGGGACGGCCGAAGAGAGGGGGAA GA GA A G G GCCAACCCCAGAAGGCGCAGGGAAAAACACCAAGGGGGG A A A A T T G G A A G GAA $A \operatorname{GA} A G G A A G A G G G A A G G G G G G A C A A A A G G$

 A A G G A G G A G G A G G G G G G G G G T T A A $\mathcal{A} G A A A A C C A A A A A A G G G G$ AAAGGGGAGGGAAGCAAAAAGGAAAAAGAAAGAAAGAAACAT AATTGGCAAGAAAAAAAGAAGAAAAAGGAGGGGGAGAGAAAA A A G G G G G G G G A GAAC CA A G A A G C A G G G G C C A G A A C C G G G G T T AAAGGGAAAACCAAGACCAGGGGGAAAAAAAGAAAGGAGACA A GAAAGAAAGAAAAGGCCCCAACCAAAAGGAAGGAAAAGAAA GAAAAGAAGGGAGGAACAAGGGGAATAACCAAACGGGAACAG GAAAAGGGAGAAGGGGCAAGGAAGACGGGGGGGAAAACAACC
 G GAAAAAAGGGGAAGAGGAAAAAGAAAAAGGGCCCCAACAAA A A G GAGAAAGGGAGGAAGAAGAGAAATAAGGAACGGGGGAGG $A C A A C C A G G G A A A A A A A A A A G G A A A A C C G G G G G G A A G A G G G C$ G GAA A GCCAAAAGGGGGGAAAAGGGAAAGGGGAGAAAAAGAG GAGGGGGAGGGAAGAGAGAAAAGGGGGGGACAAAAAGGCCGG AAAGAAGGAAGGCCGGAAAAAAAAAAGAAAAAAACCGAAGAG CAGGGGAAGAGAAAGGCCGGAAGGAAGGAAAGGGAGAAAACC $G C C A C C G G G A G G G G C G A G A A A G A G G G G G C C A A A A G G A A G A A G$ A G G G G A G G A A A A G G A A G G A A A G A A G G A C A G G G G G A A G G A G G G GACCGGAAGGGGAAAAGGAAAAAGAAAAAGAGGGAGCAAGAG A A A G G A G G A A G A A A A $\mathcal{A} G G G G G G G G G A G G A A A C A A G B C A G G G G$ ACGAAAGGCCGGAAGGAAAAAAACAAGGGGAAAAGAAAGGGG TTAA $\operatorname{T} A \mathrm{~A}$ A A A A A CAAAAAAAAAGGAAGGGGGAGGAAGGAGGA C C G A G G A A A A G G A A A A T T A A A A G G G G A A G G G G A A G G G G A G G A CA GAAACAACAACCGGAAAACCAAGGAAGGAAGGGGGGGGGA CCAAAAAAAAGGAAAAAAAGGGAGAGAGGAGAGGAAGGAGAA A A CAGAGACCAAGGAAGGGGGGAAGACAGGGGGGAAAAAAAA AAAACCAAAGCCGACAAAAGAGCCAAGGACAAGGACGAGGAA
 GACCGGGGAAGGGAGGGGACGGGGGGGGAAAAAAGAAAAAAG G GAA A G G A A GAGAGAAGGGGAAGGAAAAGGAAGAGGACAAAG G G A A A A G G G G G G G A A A GAAGGGCCTTAAAAGAAAG GAAAAAA GAGGGAAAAAGGAAACCCGAAACCAAGGAAGAGGAGGGAGAG CAA A A GAGGAGAGAAAAGAAGAGAACGGCAAGCAAAGGGGGG G G A A C C G A GAGGGGAAGGGGCCAAAACCGGCCCCAAAAAAAG GAGGGGAACCGGTTACGGCCAAGGGGGGAAAAAGAGG
A A A A GAGAAGAAACCGGAGGGAGAAGGGGAAAGGGGGCAAG GAA A G G G G G G G G G G A A A A G GAAAA A A A GAAAGGGCAAAAC G G AA $A G G G A A G G G G G A A A G A G G G G A G A G A G G A A C G A A G G A G A A A$ G GAAAAAAAAGGCAGGGGGGAGACCAGGGAGAGGGAACAAAC A A A G G A T T G A A A G A A G A G G G G A A A A A G G C C G G A G G G C A G G A A

 G GAGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGGAAAA

GAACGAAAGGGAAAGGGGAGGAAGAGGGGAGGGGGGCCGAAA

 G G GAGGCAAAAAGAGGAAGGGAGAAGAAGGAAAAGGCCAAGA AA $A G A A C C A G A A A G C A A G A A G G A A A G G G G G G G A A A C G G G G G G$ C CA $A$ A A $\mathcal{A} G G G A A A A A A G G A G A A G A G G G G G G A A G A G A A A G A G G$ C CAAACGGAAAGATGGGAGGAACAAGAGGAGGGGGGGGAGAC G G G G G GAAAGGGAGAGAAGGCCGGAAGAAAAAGGAGAAAAAA GAAAGGGAGGAAAGCCGGGAAAAGAGGGAGAGAAAAGAAAAG AGACCCGGAAAAGGAAGGGAAAGGACCAGGAGCCGGAAGGGG A A G G G GAA A A GAGGAGAGGAAGCCAGAGGGAAGGAGGAAAAA $A C G G A A G G G A C C A G A A T T A A A A G G G G G G C C G G A A G G A A G G G G$ A G G G A A A A C C C CAA $A \operatorname{G} \operatorname{A} A A G G A A G G A G A G A A G G A G C C A A G G G G$ $C \subset A C G G A A G A C C G G G A A G G G A C G G A G A A G A G G A G G A G A G C C C$ A GAGAGAGACAACCAAAAAAGGGGAAACAAAGAGAAGGAGAG AAAACGGGAAAAGAGGGAAGAAGGAAGGACGAGAAGACACBG AAAGAAGGCCCCAGAGAGCAAGGGGGAGAAGGAAGGAAAGAG G G G GAAAGCCGGAGAGAGGACCAACCGGCCGAAGAGAAACBG A GAGAGAACCGGAGGGACAGGGAGGGAAACAGGGCCGGGGAA
 AAGGGGAAGAAAAGAAAAAAAAAAAGAGCAAGACGGAGGGGG G G GAGAACAAAAAACCAAAAGAGAACGGAAAAAAGGGGAAGG C C A A G A A G A GAACC GAGAAGAGGGAAAAGAAGGGGGGAAGAG G GAGAGAGTTGGAGACAGAAGGGGCCAAAAGGAGAAAACAGB
 A A G GCCGAGGGGGGGGCCAGCAGGAGGGCAGGGAACCCGGGG G G G G G A A C A A C A G G GAA $A \operatorname{AGAAAGGGGGGAAGGGAGGGGAAAA}$ G G G A A A G G C A A A A A A A G G G G G A G G GAAA A A A A G GAAAA A GT T G G A A A A G G G G G G A A A A A A G G G G G G G G G G G G G G A A A A A A G G G G AAAAGGAAGGAAGGAAAAAAAAGGCCAAGGAAGGGGAAAAAA A A A A G GA A G G G G C C G G G GC C G G A A G G A A G G A A A A G G C C G G T T AA $A G A A C C G G G G A A A A A A A A G G G G G G A A C G G A A A C C G G A G A A$ G G G GCAACAAGACCAAGAGGAAGGCCGGCAGGGAAAGGTTCC A A A G A A A A A A A G G A A A A C G GAGAAAACGCCCCAACCAAAGCC A A A A G G A C A A $\mathcal{A} G G G G G G G A G A G A G A G A C C C A A A A G A G G G G G G$ C C A G A A A A A A G GAA A A A A G A A G G G C C A A A GAGGGGA GA G G A A A A A A GAAACCAAGGCGGAGACAGGAAGAACAGAAAAGGGGAG GAGGCAGACCGAAACCAAAAACAACAAAAGGAGGGGGGAAGA G GAGAGCACCAAAAGGAAAAGAGAGACAGGGGGGGGAGAACA GGCCAGAAAAAGAAAAGAAAAGCCAGGGAAAAAAAAAAAACA AAGGAAAAGAGGGGAACCGGGAGGAGAGAGGAGGGACCAGAG A A G G G GAAGACCAAGGACCGGAAAGGAGGACACCAAGAAAAA G G GAAAAAAGGAAGGGAAACCAAAGAGGAGGGAGAAAAAAGA A G G A G G G G G G A G A G A A GAA T G G G G GACAGAAAGAGGCA GAC C GAAAGAAGGGGGAAATAAAAAAGGCAAACCGGAAACCAAAAA A CA $A G A A A G A A A A G G G G A A G G G G G G G G G G A A A A A A A A A A A C B G$ GACAAAAGGGGAGGAGAAGGGGAAGGGGCCGGAAAAGAAGGA G GAGGGGGAGAAGAGGGGGGAAAACCGGGGCCGGAACAAAAA C CAA A GCCCCGGAGAACCAAGGGGGGAAGGGCAGGGAAGAAA A A G G A A G G A G G G G C A G G G G G A A G A G G G G C C A A G G A A C C G G G G G G A A G A C A A A G G G G C C A A G G G G A A A A A A C C G GAACAG G C A G G A A A A A AC GAA G G GAAAAACCAAAAAAAGAGAGGAAAGACCAC C C G A A A A A G G A A A A G G A A G G G G A A A A G G A G A A G A A A C C G A A C AAGGACGGAAGACCGGGGCCAAAGGAAGACGGAAAAGAAAGG AAGGCCGGAACCGGGGAAAACCGGGGAGCCAGAAGACCAAGA
 G G G GACCACCAAAAGGAAAGGAGGAAAAAAGGGGAAGGAGAC A G G G G A G G G A A A A A A G CACCGGACAGGGGGATCAGAAAAACC AAGAGGGGCCCAAGAGCCGATTGGAAAACCAAAAGGCCAGAG

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 A A GAAA A GAGGACCGAGGAAGGAAAGGGGAAAGGGGGGAAGG G GAGGCGGGAAAGCGAGGCGAGGAGGAACCGGAGGAAGAAAG G G G GCAAGAAGGAAGAGAGGGGCCACGAAAACAAGAGAAAAG GACCGGAACCGGACCCGGGGGGAAAGGGCCACCAAGGGACAG A GAGAACCCAAAGGAAAAGGAAGGGGAGAAAAGGAGGAAGAG GAGAGATTGGAGCGGAGAAGGACGGACAAGAGCABAGAAABG AA $A$ A $\operatorname{A} G C A A A G G A G G G G A G G G G G G A G G A G G A A A A G G G G A A A G$ GAGGGAGAAACCAAAAGAGGGGAGACAGAAGGAGGAGAGGAG G G G G G A A G GAAAAACCGGGGGAAAGAGAGGAGGGAAAAAGAA A G G G G G C C A A G G G G A A C A A A A G G G G G A A A G G GA G G G G G C A C C G GAGAGACGGAAAGAAGGGGAAGGGGGGGGAAAAAAAACCBG AAAAGGCCGGACGGGGAAGAGGTTGGGGGGGGAAGGCAAGAG GAAAAGCCGGAAAACCCCGGAACCGGGGAAGAGGGGCAAGAA
 A A C A CA $A G G A G G G G C A A A G G G G G G G G A A A A A A G G C C G A A A C C$ ATAGGGCAGAGAAAAGCCGGAAAAAAGGCCAAAACCGAGGCC G G G GAGGACCGGAAAGAAAGAAAGAAAACCAAAGACAAGGGA G G G G A C A G A G G G G G G GAGGGAACAGACCAAGGAGAGAGAAA G $A C G A A G A A C A G G G G A A G G A A A A G A A A A G G G C A A A A A A A G A A A$ C C G G G GAA $A \operatorname{GAAAAACCGGGAGGAAAGAAGGAAAAGAAAAGAA}$ A A A G A G GAGGGGGAAAAAGAAAGGGACAGAGGAAAACAGGAA AAGGAAAAAAAAAGGGAGGAGGCCAAAACAAAAAAGAGAAGG CCGGCAAAACAAAGGAGAAGAAAGAGAGAATTGGGGAAAAAA AACCAAGACAGAAAAAAAAAAAAACCGAAGAGGAAGAAAAAA A ACCAAGGAAAAGGAGAGGGGGACCCGGCCGGAAAAAACAAA GACCAACCAAAAAAGGGGCCCCAAGGCAGGAACCGGA
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 $A C C A C A G A G A G G G G G G A C C A G G A G C C A G A G A G G G A A G G C A G G$ A A A A A GAA A A GCGGAAAGAGAGACAAAGAGAAGGAAAACCCC A A A A A A G G A A A G A $\mathcal{A} G G G G G G G G G G G G C C G G A G G G A A A A A G A A$ C CAA $A \operatorname{GCC} G G G G A A A A A A G G G G A C G G G A G G G G G G C A G G A A G G$ A A G G G G A A G G C A A A G A A A G G C C G G G A C C A G G G A A A G G A A A A C GAACGAGGCAAAGAAAGGGGAGGGGGGGGGAAGGAAGGAACC

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 G G G G G A A G G GA GAA A GAAAACAGGGGAGAGGGA GGGAAAGAA A G G G A A A A GAGAAAGGACGAAAGGCCGGAAAAGGAGAGAAAA G G A G G G A G G A A G G G A G G G G G A A G G G G G A G G A C G A A G G G G G A G AAGGGGGAAGGGAAGGAAAAAGGGAAAGGACAAAGACAAAAG G G A A A G T T A A A A A C G G G A G G A A G G G G G G A C G G A G G A GAAAA A G G G GCACAAGGGAAAAAAAAAAGAAAGGAACAAACCGGGGAA $C \subset G G C C G G G G A A A G A G G G G G A C G G A A G G G A G G C C C C A A G A C C$ C C G GAGGGGGGGGAGGGAAGAAGAAAAAGGAAAAACGGACAC A G G G G C A G G G C C A C G G G G G G T A A A C G A G G G A A G G A G G G A C A A
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 A A GAA A G GAAATGGCCAGCAAAGGGGAACCGGAGAGATCCAG C C C C G A A A A A GAGGAGAAGGGAGAAAGGAGAAAATAAAAAAA G G G G A A G G G G G G C C A G A G A G A A A A A G G GA G G G A A G G G A C C G A A A G G G G A A A G G C A G A A A G G G CA A GAGAGGGAGAA GA A A G G T T A A G G G GAGAAGGAAGGCCAAAACCCCAAGGAAAAGGGGAAGG AACCGGAAGGGGCCAAGGAACCGGGGAAGGAAGGCCGGGAAA G G G GAAAAGGCCCCGGAACCAAGGGGGGGGGGGGCCAAGGCC C C A A G G G G G G A A C C G G G G G G A A G G A A G G G G C C G G A A G G G G G G A A A A G G A A G G A ACCGGCCGGGGGGGGAAAAGGAAAAAAAACC C C G G A A A A A A A A G G G G G GAAAAAAAGGAAGGAAAAAA G G G A A A A A A A A G A G GAAAAAAGGGGGGAAAAGGGGGGGGGGGGCCGGGG G G G G G G A A G G G G A A A A G G G G G G C C G G G G A A G GCC G G C C A A A A G G A A A A G G A A A A G G A A $\mathcal{A} G G G G G G G A A A A G G G G G G C C G G G G G G$ C CAA $A \operatorname{GAA} G G A A A A G G C C G G A A G G C C G G G G C C G G A A G G A A G G$ G G G G A A A A A A G G G G A A C C A A A A A A A A A A C CAAGGCCGGCAAA A A G G G G A A A A A A A A A A C C G G G GAAAAAAAAGGGGGGAACAAA AAAAGGGGAAAAGGAACCTTAAAAAAGGGGGGGGAAAAAAAA G G G G A A G G A A A A A A A A G G C C A A A A G G G G A A G GAAAA A GAAC C $C \subset A A G G G G G G G G A A C C G G A A A A A A G G G G A A A A C C G G G G A A G G$ A A A A G G G G G G G GAAAAAAAGGGGAAGGAACCCCAAGGGGGGGG A A A A G G A A G G A A G G A A G G T T G G A A G G A A A A G G A A G G G G A A G G G G G GAACCAAAACCAAAAAAAAAACCCCGGCCAAGGAAGAAA G G G G A A A A G G A A G G G G G G G GAAAAAAACCGGAAGGGGGAAAAA A A G G A A A A G G A A A A A A A A A A G G A A A A G G G G G G G G A A A A C C G G G G A A A A A A A A G G G GAAAA G GAAAAAAAACCAACCGGCAAA G G G G G G A A C C G G A A A A A A A A G G G G A A G G G G G GAA G G G G A A C C T T $A A G G A A G G A A G G G G G G A A G G A A A A G G G G A A G G C C G G A A G G G G$

G G G GCCGGAAAAAAGGGGCCGGAAGGGGGGGGAAAAAAGAAA A A G GAAGGGGCCGGAAGGGGAAGGAAGGGGAAGGGGAAAAAA G GAAAAAAAAGGGGGGAAGGGGGGAAAAAAAAGGAACAAACC G GAAAACCAAGGGGAAGGGGGGGGAAAAAAAAAAGGGAAAAA G G G GAA A G G GCCAAGGCCGGAAAAGGAAGGGGAAAAAAAAAA C C G G A A A A A A G G G G A A A A G GAA $A \operatorname{G} G A A A A G G A A A A G G G G G G G G$ G G A A A A A A A A G G G G A A A A G GCCAAGGCCGGCCAAGGCCCCGG A A A A A A G G A A G G G GAA A G G G G GAA A G A A A A A G GA A G G G G A A G G G G G G T T A A G G A A A A G G G G A A A A C C A A A A G G G G A A A A C C G G A A G G G GAAAAAAAAAAAAGGGGAAGGAAAAGGGGAAGGGGACAA G G G GAAAAGGAAAACCGGGGAAAAAAAAGGGGCCGGGAAAAA G G A A A A C CAA G GAA $A \operatorname{GA} A A G G A A A A G G C C A A G G A A G G A A C A A A$ $G G A A A A G G G G G G G G G G G G G G A A A A C C G G G G G G A A G G G G A A A A$ A A G G G G A A C C G G A A A A C C A A G G G G A A G G G G G G A A A A A A A A G G AAAAGGCCAAGGAAAAGGGGGGGGGGAAAAGGAAGGAAAACC AA $A \operatorname{GGGAAAAAAAAACCAAGGGGAAAAAAAAGGCCCCTTAAGB}$ AACCAAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAAGAAAAA A A A A A A A A G G G G G G G G A A A A A A A A G G A A G GAAAA G GAA T T C C C C G G G GAAAACCCCGGCCGGGGGGAACCGGAAAAAAGGAGAA G GAA A G G G G GCCCCGGAAAAGGAAAAAAAAGGGGGAAA GGGG A A G G G GAAAAA A A $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A G G G G G G A A G G G G C A A A G G G G$
 A A G GAAAACCAAGGAAGGAAGGGGCCAACCAAGGGGGGAGAA G G A A G G A A A A A A G G G GCCAAAAAAAGGGGAACCGGGGGGAA G G T TAACCAAAAAAGGAAAAGGCCAAAAGGCCAGAAAGAGCCGG G G GAGAAGCCCAAAGGAAGGAACCAGACAAAAGGCCAAACGG G G GAAAAGCCAAGGGAGGGGGGGACCGGGGGGAAGGGAAAAA G G G GAAAACCAACCGGGGAAGGAAAAAAAACCCCGGGGAGAA G GCC C G G G A A G G A A G G A A G G G G G G G G A A G G G G A A A A G G G G G G AAAATTAAGGAACCGGAAAACCAAAAAAAAAAAAAAGGAAGG A A A A A ACCAAA A G G G GCCGGCCGGAAAAAACCAA G GAAAAAA AAAAGGGGGGAAGGGGGGGGCCGGAAAAGGAAGGAAAAAAGA AA $\operatorname{A} G A A A A A A A A C C A A G G A A G G A A C C A A G G G G G G G G G G G G G G$ A A A A A A A A $\mathcal{A} G G G G G G G A A G G A A G G G G G G A A G G A A G G A A G G A A$
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 $G G A A G G C A G G C C G G A A A A A C G G A G G C A G A G C A A A G G G G A A G G$ G G G G G GAA $\operatorname{A} A \mathrm{~A} G \mathrm{~A} C A C \subset C G A G A A A G A G A A C G A A G G G G A A C A G$ AACGAAAGGAGAGGAAAAAGACGAAAAAGGCCAAAAGGGGAA G G G G A A A A G G A A A A G GAGGGGGCCGACAGAAGGAAGACAAAA GACCGGGGGGGGGGCCGGAAGGAAAAGGGGGGGGGGG
G G G A A G G G G G G G G C C G G G G A A G G G G G G G G G G G G G G A A A A $\mathcal{A} G$ G G G G A A G G A A A A A A A A A A A A A A A A G G G GAA A G G G A A A A A A G G AAGGAAGGCCAACCCCAAGAAGGGGGAAACAGAGGGAAAAAG A G G A A C G G G G G A G G A A A A A A A A G G A G G G G G C C A G C A C A G G G G G G G G A A G G GAGGGACCAGACAGGAGGAAGAGAGGGAAACAAG A A G G G A A A A G G G G G G G A A C C A A A A G GAAAAAAAA G G A A G G G A G AACCAAAAAAAAGGAGGGGGAAGATAGGGAAGAGGGAGAAAG $G G A A A A G G A A G G G G A G G A G G A A A A A A A G A A A A C C G G C A A A G G$

G GAAAACCAGAAGAAAAAAAGGGAAGCCAGGGGGGGGGAAGA GAGGCAAAGAAAAGAAGACCAAGGGGGGGAGAGAACAAA GAC A A GAA A A G GAAAGGAGCAGGCAGGGAGGGGAGAGGAAAGGAA GAGGGAAAAAATAAGGAGAAGGAAGGGGGGCCGGAAGGCAAG AA $\operatorname{A} A A G G G A A G G G G G G G G A A A A A A G G A A A A A A A A A A A A G G A A$ G GAGGAAGAGGGGAAAGGAAAAAAAAAAGGCAAGGAAACAAA $C \subset G G G A A C G A A G G G A A G G A G C C A A A A A A A A G A A G A G A A A G G G$ $A G G A A A G A A G G A G A A G G G A G A A G G A G A A A G A G C A A G T T A A G B$ G G G G G G A A A $\mathcal{A} G G C A C C G G A A G G G G G G G G G G G G G G A A A A A A G G$ ACGGCCGAGGAAGGGAGGGAGGAGCCTAAGGGATGGAAAAGG A A A A A GAAAAAACCGGAAGGGAGGAAGGGGGGAACCCCAAAG G GAAAAGGAAGGAACCAGGAGGGACACCGGGGAACACAAAAA A GAA A C G G GAAAAAAA A A A A G G G G GAGAAGATTGGCCAA G GAAA A G G G G A G G G G A A G G A A G G C CA C G A A TAA A A G GAAA G G G GAA A A A GAAAGGAACCGGGAGAAGAATTGGCCAAGGGAAAAAACCC
 A A A A A A C C G G G G G G A G G GAGAAAAGGGGCAAAGGAGCAAAAA A GAAAGGGAAGGAAAAAGAGAAAAAGGGACAGAAAGAAAA GA A A G GAAG $A \operatorname{ACA} G A G G A A G G C C A A G G G G C C G G G G G A A C G G C C A A$ A G G G G G G G G G A A A A $\mathcal{A} G A G G G C G A G C C A G A G A G G G G G G G A G A A$ G G G G G A A G G GA GA GAAAAGGAAGGGGGGCAAGGGGAAAGAAA G GACAAAAGGAAAGAAAAGAGAGGAAGGAAAAGGAGAACAGA G G GA $\operatorname{G}$ GAA $A$ A $A C A T A C A G G G G G A A G A A A A A A A A A A A G G A A A A$
 A A A A A A A A A A A A GACCAGAAGGCCCAAAGGGGGAAGAAGAGG
 C CAA $A$ A A A G GAGAAAGGGCCGGGGAAGAGGGAAAGGAAAAAA G G A A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A}$ G G A A GAGGACAAGGGGCGGGGGAAAAAA G G G GAAAAAAAGGGGAAAGGAGAGAAGGAGAGGGAGAAAAAA ATCCAGGAGAAAAAAGGGAAGGCCAAAAAGAAGGAGAAGGGA
 GATACCAAAAGAAGGAGGGAACCCGACCGAGGAGGAGAGGCA G GAGAAAGAGAGAGGAAGAAGAGGGGAAAGCAGACAAGAAAAA G G G G A A C C G G A A G A G G A A G A G G G G A C GAAAAC G G G GAGCC G G A A GAAAGGGGGAAAAAGGCCGGAGAAAAAGAGACCACACAAA GAAGAGAAAAACAAACAAGGAGCCGACCGGGGCAGGAGGGGG AAAGGGCCCCAAGGCCAAGGAAGGAAGGGGAAAAAAAAGGGG G GAAA AAA AAAACCGAAAAAGGAGGGCCGGGGAGGGCAAAAG G G G G G A A G GAG G G G G G A A A A A GAA $A \operatorname{AGC} C A A G G A A G G G G A G A G$ A A G G G GAACCAAGGAAAAGGGGAAAAAAAGGAGAAGA GAGAAA AAGAGAGAGAGAAAAGAGAACCCCGAAGGAGAGGGAGAAGAG AAAAGGAAAAAGCGGGAAAAGAGGGGAAGGCAGCGAAGAAGG G GCAAGAACCAAAAAAGGGGAAGGGGAAGGAATTAAAGAAAA AAAGAAAGAGGGAAAAAAAAAGGGGGCCAAAACCBAAAGAAA A A G G G GAA A G A A C C A G A A C C A A A A G G G G G A A A T T A A A C C C G A A ACCAAAAAGAGGAGAGGAACCCCAAGGAAGGAAAATXAGGG G G G A A GAAAAGAAAGGAACCGAAAGGGGGGAAAAAAAAAACC G G G A A A G G G G A A G G G G A A G G C C G G G G G A A C GAA A A GAAC C C C GACAAAAAAAGGAAAGAAAGAGGACAAGGAGAGAGACCCCAA CAAGCAGGAAAGGAGAACAAAGAAGGGCAGCAGGGGAAAAGAG G G G GAGGGGGGACCAAGGACGGGGAACCAGCACACCCAACAA $G G C C G G A A A A A A G G A A A A A A G G G G A A A A C C A A A A A A A A A A G G$ G G G G G G A A A A $\mathcal{A} G G G C C G G G G A A A A G G G G G G A A C C G B A A G G C C$ AAAAGGAATTGGGGAAGGGGCCGGAAGGGGAAGGAAAAAACC G G G GCCAAAAAAAAGGAAAAAAAAGGAAGGAAGGAACCACAA G G G G A A A A G G G GCC G G A A A A A A A A A A A A G G G G C C C C G G G G C C
 A A G G G G G G A A A A A A A A G GAAC CAAAAAAAAGGGGAAAAAA G G A A G GAAGGGGAACCAAAAGGAAAAGGCCCCGGGGGGAAAAAA

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 AACCAGGGAAACACAAAAAAAAAAAAGAACAGAGAAAAGGGG A A GAGGAAAGGACAAGGACAGGGGCCAGAACAAGAACCAAAA AAAAGGAGCAGAGGGGGGAACAAGAAGGGGGGAAGGAGAAAA G GCCAAAAAAGGGGAAAAATGGGGAAGGAAAAGGAAAAGAGG GAAA $A \operatorname{A} G \mathrm{G}$ GAAGGGGAAACGGAAAAGAGGCCGGAGGGAAAACC C C T T G GAAA A A GAAAAA A $A$ A A G G G G A A G G G G A A G G A C G G G G G G GGCCGGAGAAGGCAAACCGGAAGAGAAAACGGGGGGCCGGGG A A GAAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGGAGAGG G GACGAAAGGAGAAAAGGAAAAAAGAGGGGCAAAAGAAAAAG G G G G G GAA $A \operatorname{GAA} C \subset G G A A G A G G A G G G C C A G A A G G G A G A A A G G$ A A G G A A A A G G A A G G G G G G G G A A G G G GCCCCGGAA G GAAAAC C AAAACCGGAAAAGGGGAAGGGGGGCCAAGGAAAAAAGGAAGAG A A C C A A A A A A A A A A A A C C C CGGGGCCGGAAAAAAAAGGAGAA $C \subset C A G G G G G G A G G G G G A A G A G G A A A A A G A A A G G G A A A C A G A G$
 G G G G G G G G A A A GAA A A A A G G G G A A A A A A A A C CAAGGCAAAA G G G G G A A A G GAA $A \operatorname{CA} A \mathrm{~A} G \mathrm{G} A A A A A G G A A C C A G A A A G A G G A C C G G$ GGCCAAAGGAAACAAACCGGAAACGAAAGGAGAAGGCCAAGA A A GACCAGGAGGAGGGGGGGGGGAAAAAAGAAGGAGGACAAA A A G G GAAAAAGGAGAGAAAACCGGGGGAAGGGGGGGGAAAAG G G G A A A C C C C A A C C G GAA G GAA G GACGAGATTAAGGGA GA GA AACCGGAGGAGACACGAAAAAACCGGACAAAAAGGAAGGGGG AAGAGGAGAAGAACCCAGACAGGGAAGGGAAGGGGGCCAGGG G GAACCCAAAGGAAGAAACAAAAAGGGACCACAGAAGGAAAA G G GACCGGGAAAGGAGGGCCGGAAAGAACCGGAGGGGAAAAA G G G G G G G G G GA $A$ A $\operatorname{G} C \subset G A C C A A A G A A G G G G G A A G G G A G A G C A$ G G G GAACCCCAGCCGGCCGGAAGGGGAAGGGGAAAAAAAGAA AC G GAGAAAGAACCGGAAAGAAGCCCAAGGGGGGACCAAAAA
 A $G A G G G G G G G G G A A G G G A A A A A G G G G G G G G G A A G A G A A A A A A$ A G GAA A A A G G GAAAAAGGGGGGGGAGAAGGAAGGAAAAAGAA

 A G G G G G G G G GAACCAAAAACAGGAAGGAAGACAGAACAAC G G $G G C C A G G G A A G G G G C G A G G G G G A A A G A A C C G G G A G G A G A G G G$ $C \subset G G A A A A A A A A G G A G G G A A A A A C A G A A G A G A A A G G G G A A A A$ G G G GAA GAGACCAACCAACCCACCAAAAAAAAGGAAGAAAAA G GAA $A \operatorname{GGG} \operatorname{G} A \mathrm{~A} G \mathrm{G} A A A A A A A A A A A G G G G G G T T A A G G A A G G G G G G$ G G G G G G A A G G A A G G C C A A A A G G GACAGGAGAGGAGAACAAAG
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$G C C G G A C G G A A G G A G G G A A A G G G G C A A C C A G G G G G A A A A G G$ GAAAAGCCGGAAGAAAGGGGGGGACAAAAGGGAAAACAGGGG A GAAAGAAGGGGCAGGGGAAAGGGAAGGAAGGGGCAAAAAAA G GAA A GAAAAGGAAGGAAGGGGGGGGAAGGGGAAGAAAAAAA G G G G G G G G G G G G A A A A G G G G A A A A C CAAAAAAA G G G C C G G C C C C G G A A C C G G G G T T G G G G G G A A A A A A A A G G GGGGC CAAACA A G G G G A A A A A A G G A A G G G GAAGGAAAAAAAAAAGGCAAAACAA A A A A A A G G G G G G G G G G G G G G G G G G G G G G G G A A G G G G G G G G A A

A A G G G G G G A A G G G G G G G G A A A A G G G G A A A A G G A A G G G G G G G G G G A A A A A A A A G G A A A A G G G G G GCCGGAACCGGAAGGGGAAAA AAGGGGAAAAAAAAAAAAAAGGGGAAAACACCGGGGGGGGGG G GAAGGAAAACCGGGGGGGGAACCCCGGGGGGAAGGGGAAGA GGCCAAGGGGGGAAGGCCAAAAGGGGCCAAGGAAAAAAGGAA A A G G G G G G A A G G G G A A A A G G G G A A G GAACCGGGGAAAAAAAA
 $A A C C G G G G G G A A G A G A A G A A G A A A A C G A G G G G A A C C G G G G G G$ G G G G A A G G G G G GAAAACCGGAAGGAAGGAAAAAACCCAGAAA G GAAGGCCGAGAGAAGGGAAGGGGGGAAGAGGGGGAGAACAA
 AC G A A A A A G G G G G G CAAAAAACCGGAAAA GAAGCAGAAGGGGG C C A G GAGGAACAAAGGAAAAGGAAGGGGAAGGGGGGGGAAAA A A G G A A C G G G G C G G G G A A A A G G G G A A A G G GAGCAA G G G A A G A A GAAAGAGAAGAAGGGAGAAGGAAAAAAGAAAAAGGAAGAAA A A G GAAAGAGGGAACGGGGGGATTGGGAAGAGAAAGACACAG
 A A G G A GCAGGCCGGAGGGAAGGGGGGAAGGAAAACCGGCCGG AAGGAAGGAAAAGGGGAAAACCAAGGGGAAAAAACCCCBGAA C CAAAAGGAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA AAGGGAGGAAAGAGGAGGGAGGGGCGACAACGATGGACGAGG G G G GAGGGAAGGAAGGAACCAAAAGGCCGAAAAAAAAGAAAG $G G A A G G A C A G G G A G A A G G A G A A A A G G G G C C G G A A G B A A G A G G$ A A C A A C A A $\mathcal{A} G G G G G G G G G A T A A A G A G G A A A A A A C A A C A A G A A$ AAAACGGACCAAGGGAAAAGAGCCAAAAGGGGAAAGAAAAGG GAAGGGAGGGAAAAGGAAACGAAAGGAGAACGATCCGAAGGG GAAAGAGGAAGGAAGGAGAAACAGGGAGAAGGAGCCGGAACC G GAAAAGGAACCAAAAAAGAAGGAAGGGAAAAGGCCATAA GA A GACAAAAGGGGCCGGAAGGGAAGGAAGGGAAGACAAGAGAG A A A C A G G G G G A A G GAA A G G G G G G G A A G G G G G A G A A A A G G G G G A GCCCCAAAAAAAAGGGGGGAAAGGAAGCCGGAGGGCAAGAG A GAGGGCAAAAAGGAAGGAAAAGGGGAAGAGGAGGGGGAAGA G G G GAAAAAAAGGAGAGGACAAGGGAAGAAGGAACCAAAAGG A A G G A A A A C C C C A A G G G G G G G G A G T A A A A A G GAA G G G G A A A A
 G G G GCCGGAAAAGGAAGGCCAAGGGAAAGGAGGGAAAGCCCC A G GAGGGAAGCCAAGGAACCAAAAAAAAGGGGAAAACCACAAA $A C C A A C G G A G G G A A G G A A A A A A G G G G A A C C A A A A A A G G A G A A$ G G G GAAAAAAGGAAAAAGACGGAAAAGGGGACAAGGCCAGAAA
 $G G A A A G G A G G A A C C G G A A G A C G C C A G G G A A A A A G G G G G A G A G$ G G A G A G G G A A G G A A G G G G G A G G A A A A A A G A G G G G G A G A G A A G GAAGGACAAGCCGGAAAACAGAAGTTAAGAAAGGGGGAAGTT $A A C C A A G A G G A C A G A G A A G G G A G A A G A A G G A C A A A C C A G A G G$ G GAGAAAGAAGAGAAACCAGAAAAGGAAAAGGAAAAGAGGAA GAGGAAAGAGAGAAGAAAGGGGGAGGCCGGCCGGGGGGGGGG A A G G G G G G A A A A T T C C A A G G G G G G G G G G A A G G A A A A G G A A C C GAAGAGAAAGGGAAGAAAAAGGAAAGGGCAACAGAGAACCCC G GAAAAAAGAACGAAGCAAGGAGAAAAACGGGCCGGGGAAGA C C C A A C A A G G A A A A A G A A A GACAGGGGGAGCCAAA GGGAGGA GAAAAAAGCCGGGGGGAAGGAAAAACAGGGCCAAGGGGAGAA G GAGAAGGAAAAGGGGGGGGAGAGACAGGGGGAAAAAAAGGG GACAAGGGGGCCGGGGGGAAGGAGAAAGCCAACAAGAGAAAG AAGGAGGGAAGGAGAGAAGGCCGGAAGGGAAAGGGAGAAGAA AA $A G A A A A G G G A A A A A A A A A G A A C A G G A A G A A A G A G G G A G A A$ $A C G G A A G G A A G G A A A A T T G G G G A A G G A G A G G A G B A A G G A G G B$ A A C C A A G G G G G G A C G G A G G G G A A A G G G G C C G G G G C C G G G A C C C C A A A A G G G G A A G G G G G G G G A G A A G A G G G G A A G G A A A A G G A A GGAAAAGGGGGGAATTCCAAAAAAGGCCGGCCAAAAAAAAGG

G G G GAAGGGGGGGGGGGGGGAAAAAAAACCAAGGAACCAAAA G G G G G GCCAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAGAG $A A C C A A A A G G G G A A A A A A A A G G G G G G C C A A A A G G G G G G G G G G$ G G G GCCAAGGGGAAGGAAGGCCAAAAGGAAGGAAAAAAAAAA AAAAAACCGGGGGGCCAGGAGACAAAGGGAATGAGAAAGAAA GA $A \operatorname{GAA} A G A G A G G G G G G G G G G A A G A G C C A G G G A A A A A A G G A A$ GAAA A A A A G GAAAA $A$ A $A \operatorname{AGGCAGTTAAAGAGAAGAAAGGAAAA}$ AA $A G G G A A A A A A A A A G G G G A A G G G G G A G A A G C C G A C A G G A G A A$ A A G GCCGGCCCAGAAAGAGGACACGAAGAGAAAAGGGGGGGG GACAAAGGCCGGGGAAAGGAAAAAGGAAGAGAGGAAAGACAG G G G G G G G A A A A A GAGGCAAACCGGGGGGGGAGAGCCAAAACC ACAAGGAGGAGAAGCCGGGGGGGAGGGAGAGAAAGAAAAGCC GAAATAGAAGGGAAAGACGGGAGGAGGAAGAAGGAACGAAAA A A GAA $A$ GACGGAAAAGAACGAGGCACCCCACAGACGGAGAAGAG AAAGGGGGGAAAAAGGGGAAGAGAAGAAGAAAGGCAGGGGAA G G G G G G GAA A A A A A G GAGAAAAAGGGAACACAGAAAGGCAAA C CAA $A \operatorname{GGA} A A A A A A A G G G A G A A A A G A A A A A G G A C C C G G A A A A$ A A G G G GCCAA G GAA A G G GACAGAAGGAACAGGAAGGAAGAGG A GAA A A G GCCAAAAAGAGCCTTGGAAGAAATAAAGGGGGGGA
 AAAGGAGGGGAGGAGAAAGGGGATAAAAAAAGAAGGGGGAGG GATTCCAACCAAAGAGGGGGAGGAGGTAGGAAAAAAAAGAGG AACAGGGGAACACAGAGGGGGAACGAAAAAGAGAAAAGAAAG GAAACCAAAAAAAACAAAGGGAGAAACCAAGGGGAAGGAAAA C C GACCAACCAAGGGGAAAAAAAAGGGGGGGGGGGGAAAACC G GAACCAAAAAAAAGGGGCCGGCCGGGGGGAAAAAAGGAAGA G G G GAA $A \operatorname{GAA} G G C C A A G G A A A A A A A A A A G G A A G G A A C A A A G B$ A A C C G G G G G G A A G G G G A A A A A A A A A A A A GGGGGGAAAAAAAA G G G G A A G G A A G GAA $A \operatorname{GGGGC} C A A A A A A G G A A G G A A C C C A A A A A$ $G G A A G G A A G G G G G G G G G G A A A A G G A A A A G G C C G G G G A A G G A A$ A A A A A A A A G G A A A A A A A A G GAA $A \operatorname{GAAAGGGGGGAAGGGAAAGA}$ G G G GAA A G G GAACCGGAAAAGGCCCCAACCAAAAGGAAGAAA

 G G G G A A C C G G G G G G G G A A G G G G A A G G A A C C A A G G C C G G A A G G A A A A A A A A G G C C C C G G G G G G A A G G G G G G G G A A G G C C G G A A A A G G G G G GAA $A \operatorname{GGGGGGGGGC} C A A A A A C C A A G G A A A A G G G G G G C C$ AAACGGGAAGCCGGAAGGAAGAGGAGCAGGAGAGAACCCCGG A A A A G A G G C A G G C C G G G A G G G G A G A G G G A G G G C C A G A C A G G A A G G A A G A A CAA $A \subset C G G G G G G G G G G C C G G A A A A A A G G A A G C A A$ CACCGGAAGGAGAAAAAACCAAGGAAGGAAGGGGGAAAAAAA G G A A A A G A G G G A G A C C G A G G G G G G C C A G A A G G G G A G C A C C A A AAAAAAGGGGCAGAGGAACCAAGGAAGGGGAACAGAGGAGCG C C G G G A A A G G A A G G A G G A G G G G G G A A G A G A GAG GAA G GAAA $A$ GAAGGAAAAGGAAAGAAGGAAGCCAACCAAAACCGBABAGAG CCGACAGGAAAAGGAAAAAAGGACGGGAAAGGAGGGAAAAAA C CAAAAGGCCAGCAAAAGAAGACCAAAAGGCACAGGGGGGGG A A G GAATTGGGGAAAAAACCGGGAGGAAACGGGGGGAAAAAA $C \subset A A A A G G G G A A A A A A G G G G G G A A C C G G A A C C A A A A A A A A G G$ G G A A A A G G A G G A G A A A A A A A A A C C GAGGAACC GACACC G GC C $G G T T A A G G A A G G G G G G A A G G G G A A G G G G G G A A A A G G A$
AAAGAAGAAAAGAAGGAGGAGAACGGGAAGGGGAGAAAGAG A G G A GAGGCCCCAAAACAAAAGGGGGGGGAGGGGATAAAAAA $C \subset G G G G G G A A A C A G G G G G C C G G G G G G G A C G A G A A G A A A C A A G$ GAAAAGACAAAGAGAGGAAGAAGGAAAAAACCAGACGAGGGG AACCGGAGAAAGGAAAGAAGGAACGGAAAGGAGGAAGGAAAA
 CA $A G G G G G G A C C G A A A G G A A A A G G G A G G A G A G A G A C A G A A A G$ GAGGGAGAGAACCCAAAAAAGGGGCAAAAGAAAACCCCAGAA

GAGAAGAGAGAAGACCGAGGAAGAAATAGAGGAAGGCCGGCC A A G G G G G G A A A A G G A A A A CAGGGGAAGGAAAGGGAAAAAAAA $G G C C C G A A G G A A A A G G G G G G G G A G A A G G A A G C G A G G A A A A G G$ AGGAGAAGGGAAGGCAAAAAAACCGGCCAACCAAGGGAGAGA $A G C C G A A G G A G A A G G A A A G G G G G A G G C C G A A A G A G G G G A A G A$ $A G C C A A G G A A A A A A G G C C G A C C A G A G A G G A A A G G A A G G G G G G$ A G G G G G A A A A A A G G G G G G G A G G G G A A A A G G G G A A A A A A G G G G AAAACCAATTAACCGGATACAGGGAGACGAGAAAGAAAGGGG A A G GCCAAAAGGAAAAGGGGGGAAGCGGAAGGTTCCGAAAAA $G G C C A A G A G A A C A G A G A G G A G G A G C C G G G A G G A G C C G G A A G G$ A GAGGAAGAAAGAAAAAGGGCCGGGAAAAAAAAAGAAAAAGG
 A G A A A A G A A G G G A G GA $A \operatorname{GGGGGGAAAAAGAGAAGAAAGAAGAA}$ AC G G G GCC G G A G G G G A A A G G G G C A A G A G G G A A G G G G A A G A A G A GAAGGGGAGAGCAGGCCAGAGAAACAAGGGAGGAAAAAACA A G G GACGGAAGGGGGACCAACCGGGGGAGAGAACAACAAAGA A G G G A A G G A GCA $\mathcal{A} G G G \operatorname{GA} A A T A G A G A A G G C A C C A A A A G G G G A A$ A A G G A A C C G A A A A A G G C C G G G G G G A A GA GA G GAACC G G G GAC $G A C C A A A A G A A A A G C A G A A A A A A G G A G A G G A A G B A A G G G G G G$ A A G G G G A A G G A A G A A A G G G G G G A A G G G G G A G A A A A G G G A A G A ACAAAGGAAAAGGGGAACGGAAGAAAAAAAGACCAAAAAAGG G GAGGACCGACAAGAGAAGAGAGGAAGAGAGATTGGACAAGA
 GAGGGACCGAAAGGAAAGCCCCAAAAGGGGAAGGGGAGAABA G G A A A A G A A A G A G G C C G G C CAA G G C C A A A A G G C C A A A A G G G G G GAA A A G GCCGGAGAGGGAAGAGAGAGAGACCGGAAAGAGAG GAAGAGAGAAGGAAAAGAGGAGAAAAAAAAAGGGGGAGAAAA $A G C C A T G G G G G G A A A C G A A G A G A A A G G A G A A A G G A G C C A G B A$ A GAGAAAAGGGGAAAAGGGGGGGAAAGGAAGGCCAAGAAACC AAGGAAAAGGAAGGCCAAGGAAGGCCGGAAAAGGGAAAGGCC G G G G G G G G A A A A A A G G A GAGAACC GAACGGCCGGCGGGGGCA G G G G G A A A GAGGGAGGAAGGGGAAGGGGAAGGAAAGAGAGAA ACGAGGGAGAAGGAGGCCAAAAAAGGGAGGAAAA GGGGAGGG A A G G G G A A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G GAA C C G G G G G G A A G G A A G G C A A G A A G G C A G G G G G G G G G A C C G G A A A $G$ GAAGGAGAGGAAAAAGGAACAGACGGAAGGGGACAGGGCCGG G GAAAACCGGAGGAAAAGAAGAGGAAAAGGAGGAGACCAGGG G GAAAAAGGACCGGAGGGAAGGGGGGCCGGAACCAAGAAAAA A A A A A ACCGGAAGGAGACCCGGCACCCAACAAGGAGGGAGAA A G A A C C G A G G A A G G A A G G G G G G C C G G C C A G G G G G A C G G G A G G $A G A G G G G G G G A G G A G G C C T T A G G A G G C A A A A G A G G G A A G A A G$ C G G G G G G A C G C A A C A A G G G A G G G G G G C C G G C A G G G G G G A A A A AGAGAGAAAGGGGGGGAAAAAGAAAGCACAGGAAAAGGAAGG A A GAGAAGAGAGGAGAACAGAGTAGAGGGGAAAAAAGGAGAA AAAAGGCCAAGGAGAAGGGGGGAGAGAAAAAACCAGAAAGAG G G G A A GCCAC G G G G A A G G A A A A A G G G GA G G G G A A A A G G G G G G G GAAAGGAAGGAAAAAGGCCACGAACACGGGGAGGGGGCAGG G GAAAAGGGGCCAGGGAAAGCCCCAGAAAAAACCAAAAAGGA GAGGAAGGGGAGCAGAAGAGGAACAGAAAGGGAAGGGGAGAG G GAACCAGAAAAAAAAGGGGAAAAAGGAGAAGCAAAAGAGAA G GAGGGAAACGAGGCCAGGGAAAACAAAAGAAGGGGAAGAAA G G GAA A G G A A A G G GCCAAGGGGAAGGAAAAAAAAGGCA G G GAA GAAGAGGGGAGGGAGGCAGAAAAGCCGGAAGGAAGGGGAAGA G G G GAA A A A A G G GAAGAGAGGGAAGGAAAAGGGGGGGAAAGA G G G A A A GA G G GAGAACAAAAAGCAAACAAAAGAGGAAGAGAC C C A A C C A A A G C C G G C C G G T TA G G G A G G G G G GA G A G G A G A G G A G GAA A G G G G GAA A G A A A A A A A A A A A A A A G GAA G G G GAA G G A A A A G G G G G G A A G GAA A GAAAAACACCAAAAGGAAGAAAGGAA G G A A G GAA A G G GAAAAAAAAAAGGGGGGAAGGGGCCAAGGAGAA

G G G G G G C C A A G G G G G G G G G G A A A A G G A A A A A A A A A A T TAACC G G G G G GAAA A A CA $A$ A A A GAGGTTAAAGAAGGAAAAAAGACCAG GAACAGAGGGGGGGAAAACCAAGGAAGGAACCGGAAAAGAAA AGGGAAAGAGGACCAAAAAGCCGAGGAAAAAAAAAAAAGGAA A GAACCAAAAGGGGAGGAAACCAAAAAACCAAGAGGAAAAGA GAGGAAGGAAGGGGGAAAGGCAAGAGAGAGAGAGAGGGAAAA C G GAAAAAAAGGGGAGGAAAGGAAAAACAAGGGGGAAAAGAA AACACAAAAAAAGACAAAGGGGGAGAAAAGGAGGAAGGAGGG A A A A A A A A GA G GAGAGAAAAAAAAGAAAAACCGGGAGAAAAG GGCCAACAGGAGCCAAAAGACAGGAAAGAAAAAAAGGACAGA G GAGGGAAAGGGAAAAAAGGAAAAGGGAAAAAGGCCAGGGGG G GAAAAAGAACCAACCGGAAAAAGAGAAAAAACGAAAGAGAA G GAGAAAACAGGAAAAAGGGAAAGTAAAAGGGAGAGCCACAA A G A A A A G G A GCAG GACAGAAGAAAGAAAGGCAGGGGAA G GA G
 G G G G G G G GCCAGAAAAAAGGGGGGAAAAAAGAA GGGAACCGG G G G G A GAA $A \operatorname{GGGGGAAAAAGGAAAGGGAGAAGCAGAACGAAAA}$ CA $\operatorname{A} A \mathrm{~A} G A A \mathrm{~A} G \mathrm{~A} A \mathrm{~A} G A A A A A A A G G A A A A A C G G C C A A G G G G G G G G$ T T G G G G A A A A A A G G A A G G G G G G C CAAG GAAGGAAAACCAAG G C C G GAAAGAAGAGAGAAGAAACCAGAAGGAAAAGAAAAAGCC G G TAA A A A G GAAAAGGGGAAGGAAGGAGGGAGAAAACAAGAA GACCACAGAAAGTAAAACGACCAAGGGGGGGAAGGGCAAAAA
 GA $\operatorname{G} G A A G G G G G A A G A G A G A C G A A A G G A A A G G A C C G G C A G G G G$ GACAAGAGAAGACGAACCAGGAAGACGAAACCAAAGGGGGGG G G G GAGCAAACCCGAAAAGGGGAGAAAAAAAAAAAAAGAAAG G G G GAAACAAGAGAAGCCATGGCACACCAAGAGGTTAATTAA G G G G A A A A A A A A GAGGGAAGAGGAGAGGAGCAAAAAAAAGAA CAAAAGGGGAAACCGGGCAAGAGAGGGCACGGGGGGCACAAG AAAAGGGGGGAAAATTGAAGGGACGGCAGGCCGCCCGAAAAG G GAA A A A A A A G GCAAAAGGATTACACAAGGGGCCGCAAAGAA GGCCGGAAAAAAGGAGGAACGGAAAGGACCGGGAGAGGAAAC A G TAAAA A A $A \operatorname{A} G A A G A A A A G G G A G A A A A G C A G G G G C A G G A A A A$ A G A A G G A A G G A A A G G G G G G A G G G A G G G G A A G G A A G G C C A G G A C A G G A A G A C C G G G A G A G G C C G G G G T T G G C C G G G G G G G G A A $\mathcal{G} A$ C C TAACAAAAAACAAGGGAAAAAAAAAGGAAAAAAA GGGAAA T TAA A A A GAGGAAGAAGGCGAGAAGGGGAGGAAGAAAAA GAA G GAAAAAAGAAGAGAGACAGGGGGGCAGAAGGGGGAGAAGGG G G G G A A G A G A G GAAAAAACAACGGGGGGAAAGGGAGAAA GA GA
 GAGGGGGGGGGAGAAGAGGGGGGAAAAAAGAGGGGAGAAAAA G G G G G A G G A GAAA $A$ A A G G GAAAAAAGAGAAACCGAAGACAGGG A G GAGGCAGGGGGAAGAACCAAGGAAGGCCAAAAAAAAAAAA A A A A A A G G T T G G A A G G A A G G A A A A G G G G C C C C G G G G A A T TA A A A A A G A A G G G G G G G G G C C G G G G G G A A G A G G A A G G G G G G G G A A A A A A C C A A G G G G A A A A C CAA $A \operatorname{AGGGGGGGAAAAAAAAGGGGCC}$ GACCAAGACAAGACCCAGCACCGGGGAAAAGGAACCAGAAGB
 CAGGAAGGAACCGGAGAGGGAACCGGAAAAGGAAAACCAGAA $A G G G A C G G G G A G A G C G A A G A G G A A G G A G A A G G C A A A G G A A G G$ A A G G G GCCGAGGGAAAGGCCACCCAAAAGGAAAAGGG
GCCGGGGGGAACAAGGGACAGGAGGAACCGAACCCCACCGG A A A G A A G A GAGGAAAACCGGGGGGAAAACAGAAGCAAAGAGG G G GAATAAAAGGGAGGGGAAAGGAGGGGGGAAAAAACAAAAA $A G A G A G G G G G G G A G G G A G G G G G G A G G G A A A G G A G A A A A A G A A$ A A A G G GAAAAGGGGGAGAATGGGGCCAGGGAGACGACCCAAA A ACCAAAAAAAAAACCAAAAGGAAAGGGAAGGCAAGAACA G G G G A A A A A A A GA A G G G G A A G G G GAA A GAAA CAA G GATCGAG G G AAAAAGAAGAGGAGGCGGGGCCGGGGAAAAGAGAGGAAAGGA

AAGGAAGGCCAAAAAAAGGAGAAGCCGGAAAAGGAACCCCGG
 G G GAGAAGGAAGCACAGAAGAAAGAAAGGAAGGGGGAGAGAA AAAAAAAACCCCAAGGGGAGGGAAGGGAAGAAGAAAAGAGGG A A G G G GAAAAAACCAAGAGGGGGAAGGGGAGGGGAAGAAAAA C C G G G GAACCTTGGAAAAAAAAGGCCAAGGGGAAGGGGAAGAG
 $A G G G A G G G A A A A G G G G G G A A A A G G A G G G A A G G G A G G G G A A G A$ A G G G G G A A C C A A $\mathcal{A} G G G G G G G G G A A A A A A A A A A A A G G A A C C G G$ G GCCTTGGGGGGGGGGAAGGGGAAAAAAAAGGAAGGAAAAAA AACCAAAAAAGGAAGGGGAAGGGGGGAAGGGGAAGGGGGGGG A A G G A A A A G G G G G G A A G G C C G G A A G G G G C C G G G G A A G G G G G G G GAA A GCCAAGGGGCCGGAAAAGAGAAAAAGGAAGGGGAAAA T TAA $A \operatorname{GA} \mathrm{~A} G A C \subset A A G G G G G G G G A G A A G G G G A G G G A A C A A A A A$ A GAAAAGGAGCCAAGGAAAAAACCAACCGAGAGGAAGGCCTT G GAAATAGCCAAGCAGAGGGAAAAGGAAGGAAAAGGAAAAAA A A G G G G G G G G A A G G A A G G A A G G G G G G G G C C G G A A CAA GA C A A
 G G G GAA A ACCGGAAAATTAGAGAAGGGGAAGGAAAAGGAAAG CAGGGGAGAGAGGGACAAAGAGGGGGAAGGAAAAAGCCCGGG A A A A A A GAGGGGGGGGGGCCGGGAAAGGGGCCGGCCGAAGAA A GAACCAAAAGGAAGGCCGAAAGAACAAGAAAAAAAAAGGGG G G G G A A G G G G A A G G G G C C G A A G G A G A G A G G GAGGG GAAAAAA GAGAGAAAAGAAAAAAAAGGAAGGGGGGAAGGAATTAAGGGG G G G G G GAAAAGGAAAAAAAAGGAAAAAACCCCGGCCAAAAAA G G A A G G G G A A G G G GAACCGGCCGGCCGGAAAAAAAAAGAGGG G GAAAAACGAAACCCCGGAAAAGAGAGAACAAAACCGGAGGG GAGAACGAAAACGGGGGGGGGAAAAGGAAGGGGGAAAAAAAA A A A A G G A A A A C A A A G G G G G G A A G G A G G G A T C G G A A A G G G G C C AAGGAAAAGAGGAACCAAAAGGAAAAGGAAAGGAAGAAAAAA A A G G G G G A A G A C A A A A G G A A A G A A G G A G G G G G A G G A A A A A A A G GAAGGAAGGCCGGGGCAGAAAGATAAAAAAAGGAAAGAGCC G G G G G GAACCGACAGGAAAAGGGAATTAAAAGGGAGAACAAA G GCC $C$ G G G G A A G G G G G G A A G G A G A G G G A G C C A A G G C C C C G G G G C CAAAAGGAAAAAAGGAAGGAAAAAAGGAAGGAAAAGAAACC A A G GAAGGCCAAGGAAGGCCACAGAGAAAGGGGGAGAAAAGAA G GAA A A A A A A A A G GAGAAGGGGGGAAGGCCCCAGGAAGCCGG TAAAAA A A $A \operatorname{A} G A G G G G A A A C G G G A A G G G A C G G A G A A G A A G G G$ G G A A G G G A A A G G G C A C A A G G G G G G A A C C CAAACC G GAAC C T A G G G G A A G G A A G A A GAAA $A \operatorname{AGGGAT} T A A A A G G G G G G A A G A A G G G$ AGACAGAAGGAAAAGGAGAGAAGGACGGAGGGAAGGAAAAAA A A G G G G G G A A G G A A A A GAACA $A$ A A A GAAA A G G GAA A A A A A TA A ACAGAAGACCAGGAGGGGAAGGAGAAAGCCAAAGAAGGAAAA
 GAAA A G G G A A G GAAAA A G $A$ A $\mathcal{A} G G C C A A A A G G G A G A G G G G A A G G$ G GAA A GAGACAGCAGGGAAAAGAGGGAAGGGACAAAGGAACA CCGGAGGAAAAGAAAAGGAAGGAAACGAGAGAAAAAGACAGA G G G GAAAAAACCGAACGGAAGGAAGAAAGGGAAGGAAAGGAG G GAGAACCGGGAGGGAGAAGACGGGGGACCAAGGGGGGCAAA A G G G G G G G G G A GA $A \operatorname{GG} \operatorname{GA} A G G G A G A A G A G A G A A G G A A G G C C C A$ $A \subset A G A G G G G G A G A A A G G A G A A A G G G A G G A A A A A A G G A G A G A G$ G G G G A A G G A A G GC C A A A A G A G G G G G G G G G C G G G G G G A A G G C C G GCCAAAAGGGGCCGGTTAAGAAATAGGGAAGGAGGAGACAA A GAAAAGGGGCCGAGGAAGGAGGGAAGGAAAGAAAAAAGGCC C C A G G G A C A G G A A G A G G A G A GAGGCCGGAAGA GAAAC G G G G G G G G G GCCGGGACCAAGGGGGGCCAAGCAAAGAGGGAGAGAGAA G GAGGGAAAGAAGGGGGGGGAGAAGGGGCCAAAAGGGGAGAG A A C C A GAA A G G G G A A A A A A TA A G GAAAAAAAGGGGGAGAACC G G G G G GCCACAAAAAAAAAAGGGGAACAAGAAAAGGGAAAAC

TAAAGACCCCGGGGAACCGGAAAGCCAGGAGAGGGGAGEAAA
 $G G C C A A A C G A A G A A G A A A G G G A A A A A A A A A A A C C A A C C A A A A$ $C \subset G G G G G G A G C A C A C A G A C C A G G G A A G G A A A G G A G G G G G G G G$ AACCGACAAAGGGAAAGGGAAAGGAAAAAGCAAAGGAACCGG
 G GAAA $A \operatorname{Ag} \operatorname{A} A A G G G A A A G G T T G G A A A A A G G G A G A A A A G G A A A A$ A GAA A G G G G G G GAAA A CAAGGAAGGAAAAGGAAAAGGGGGGGG A A C C A A G G A A G G G G G G G G A A A A A A G GAGGAAAGGAACAAAAA GGCCGGAAAAGGAAAAAAAAGGCCCCGGAGGGGGAGAAAAGG

 G G G G A A G A G G G G G A G G G A G A A A A G G G GAAA A A A A G C G G C A A G G GAGCCAA G G A G G A A G A A G GAA A G G A G GA GAA G G G GAC G G A A GAAACCAGAAAAAAGGAAAAAAGAGGGGAGAAGAGAGGCCBG TAATGCGGAACCAGGGGAGAGGGAGGAAATAGAGGGGGAAAA A A A G G G A G A A A G G G G GAGCCGGAAGAAAGACCGAA GAGAGAA A G G A G G G G G G G G G G A A G GC G G G A A A A G G C C G G A A G G G G A A A A AAAAGGAAAAAACCGGAAAAGGAAGGGGGGAAAAGAAAGGGG A GACGGAGCAAAAAGGGGAGAAAGAAAGGGACGAGAAGAGAA G G G GAAGGAAAAAAGGAAAGGGAAGAAAGGAAAAAGAAAAAA AAAGGAGGAAGGGACCACGGGGAAAAGGGAAGACAAAGAGAA A A G A G A A G GA G GCCAAAAAAAGGGGAAAAGGGA GAAA GAGGGG ACACGGAGACAGGGGGAAGGGGGGAACCGGAAGAGGAGCCAG A A G G G A A G A GCCACAGAAAAGAAGAAGAAAGGAACCAAGGCC $C \subset G G C A A C A A G A A A G G A A G G G A G A G A A G G A A G A G G G G G G G C A$ A G GAAAAGAAGGCCGGGAAAAGAGAAAGAGAAGGGGGGCCGG A A A G G GA $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{G} C A C A A A A A A G G A G A A G G A A G A A C G B A C G G$ C CAGTTGAAAGGCCCCGGGAGAAAAAGGTAAGGGCCAAGGGG G G G G G G A A A A A G G G A A A A A CAAAACCAAGGAAAATTAAAAAA G G A A G G A A G G G GAAAA $A$ A A G GAAAAGGGGAAAAGGAACCCCCC A A GACCGGAAAAGGAAGGGGAAAACAAAGGGAACAAGGAAAA G G G G G GCCCAGACAGAGAAAAGACACCCGGCCGGGGAAAAAA G G G G A A A A A A G G A A A A A A A A A A A A A A G G C CAAAAAAG GAAAA C C G G G G G G G G G GAA A G G G G A A A A G GAAAAAAAGGAAGAAAAAAA A A G G A A A A A A G G A A A A A A A A A A G G A A A A G G G G A A GA G GACA $\mathcal{A}$ G GAAAGACAAAGGAGAAGCAGAAAGGGGGGGGCCAGACAGBA A G GAGAGACAA GAAAAAAGAAAGGAAGAGGAAACCCGGGGGG G A T T G A G G G G C C A G A G A A A A C C G G G G A A A A $\mathcal{A} G G G G G G G G G G G$ G GCCGGGGAAAAAAAAGAGGAACGGGAAAAGAAGAAGGAGAA G G G G A GAAGGGGGGGGACGGAAAGACGACAAAAAATAACACC
 ACAAGGAGAGGGGGACAAAGGACAGCGAGAAGAGGAGAGCGG G GAGCCCAGGAAGGGGAAAACCGGAAAAAAAAGAGAAAAACC A G G G G G G G GAA A G A G G G G A GAA A A G G GAGGAGAAAACAAAAA G G G G A G A G C A A A G A G G A A A G G G G A G G G G G A G G A A G G A A G G A A
 G G G G A A G A A A A C G G G G G A G A A G A GAAC A A A A A G G G G G G T T G G G GAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGAAA G GAA A G G GCCAAGGGGAAAATTGGAAGGAAGAAGGACAGACA AAAAGAGGAAAGGGGGCACCGACAAAGAAGACAAGGC
C GAAGGGAAAAAACCGGGGGGGGGGAAAAAGGAAAAAAAAG $G G A G G A C C G G A A A G A G A G A G G G A A G G A A G G A A A C A G A A G G G A$ G GAAGGGGAAGGAAAATTAAAAAGAGAAAGAAGGAAAAAGAA A A A A A A A G G G GAGATTACCCAGAGAGGACCCAGGAAGGAAAA G G G G G A C A C A G A C C A A G G A A C A A A GAAA G GAGGAG GAAAA GA $A G C C A G A A A A G G G A G G A A G G G G A A G G G G G G A G G A A A G G A G G G$ A GAGAGGAGCCAACGACAGGAAAGGGAAGGAAAGGAAGAAAAG GAGAGGGGGGGGAGCCGAAAGGCCAGGAAGGGGGGGAGAAAA

AACCAAGGGGGAAGCCAAGAAAGGCCGGAAAAGAAGGAGAAC AGTAAAGGAAAAAAAACAGGAGAAGGAAAACCGGAAGAAACA AACCCACCATGGGGAAAAAAGGAACCAAGGAAGGGGGGAGAA G GAAAAGGAACCAAGGGGCCGATAGAAAGGGGCCAAAA G GAAA GAGAAAGAAGGGAAAAGAGGGGAGAGCCGGGGAAGGGGAAAC A A G GAA A G G GAAAAAAAAAAAAGGAAGAAGGAAAGGAAAAAG GACCGGAAAAAAGGCCCCGGGAAAAAAGAAGAAAGGGAAAAC $G G C C G G A A A G G G G G C A A G A A A A G G A A G A A A G A G G A A A G A G A G$ GAGAGGAGGACCAGGGAAGGGAGGGGGGCAAAGGAGAAGAAA G G G G G G G GAAAGGGGGAAAAAAAGCCGGAACGAGATGGGAAA A A A A A G G GA $\operatorname{A} A A G A A G A A A A G A A A A A A A G G C C A G A G A G G G G G$ G GAGGGGGAGCACCAGGACAGGGAGGAGGAAACAGGCAAAAA GAAAAAGAGACCAAGAAAGAAAAAGGGGGGGGAGGGGGAGGG GC G GC G G G G G C A A G GAAA A A T A A A A G G G G G G G G G A A C A G A G A A GGCAGACCAAAAAAGGAACCAACCGGAAAGGGTTAAAAGAAA AAAGAAGGAAAAGACAGAAAGAGGGGAAAGGACAGBAAAAAA
 C CAGGGAAGGGGGGAAGGACCCAAGGGGAAGGAAAAGGAAAA GACCAAAGGGGAAGGAGGTTAAGGGGAACCCATAACAGGGGG A A G G A A A A A A G G A G G G G G A G A G G G G G A A A A A A A A A A G G G G G G AAGGAAGGGGGGGGAGAGAAGGAACCGGGAAAAAAAAGAGAC GAGGGGGAGAGAAACCACGGAAAAGGAAGAAAGGAAAAGGAA A A A A G A CA $A \operatorname{GGA} G A G G A A A G A A A C A G C A G G A G A A G G A G A G A G$ A A A G G G A A A G G A G G A A A A $\mathcal{A} G G G G A A G C C G G A A A A A G G G G G G G$

 A GAAAAGGAAAAGGAAAAAAAAGGAGCAAAGAACAAGBAAAC ACAACCCCCCAAGGAAGAGGAAGGCAGAAAAAAGAGGAAGAG $G G C C G A G A A G C A G G G G G A C C C C G G G G A A A A A G G G G G A G A A A A$ $A C G A C C G G G G A A A A A A A G G G G A G G G G A A G G G A G G A T A A A A A A$ G G G G G A A G A C G A G G G G A A $\mathcal{A} G G G G G A A G G G G G G G G A A A A A A G G$
 G GAGAGGGGAGGAGGGGAGAGAAAGAAGAAGGGAGGGGAA$G A$
 GAAA A $A \operatorname{A} A G G G G G A A G G A A G G A G C C A A A A G G A A A A A A G G G G G G$ AACCGGAAAAAAACGGAGAAGGAAGGAGAGCCGACCAAGGAG GAAGAGAAAAAAAGGAACAAAGAGGGAGACAACGGACAAAAC AAAAGACAACGAAAAGGGGGCCCCGGCAAGGAGGCAAAAGAG A GAAAA $A \operatorname{A} A A A G A A G A A A A A G G G G A A A A A G G A A G G A A G G G G G G$ A CAA $A \operatorname{GGG} \operatorname{G} A A A G A G A G A A G G A A A G A G G G G G A G A A A A C A A A A G$ GAACAGAAAAAGAGGGCAAGCCGGAGCAAAGAAAGAAAGGAA A G G A G A A C G G A A G GAGGGACAAAAGGAGGGGGAAGAAA GAAA G GAGGGAAATAGACCCGGACAAGAGGGGGGAAGGGGAGGGGG AA $A \operatorname{GAA} A C A G G G G G A A G G A A G G A A A A G G G G A A C A A G A G A G A A$ AAAGCCGGAGAAGGAAGAAAAGGGGGCCAAAAAGGGAAACBG GA $A \operatorname{GAA} A G A C G A G G G A A A G G G G G G A G A A A G G G G G A A G G A G A A$ GAAGCAACAAAGGGGGGGGGGAGGGGACACGAAAAAAGATAG A GAACCAAGGAAAAAGAAGAAGAAGGAAGGCACAAGAAAAGA
 G G A G G G G A G G A A G G G G G G A G G G G A G G G G T A G A A A A $\mathcal{A} A A A A G G G$ GCAGGGGGCCAGAGGAGGGGGGGGGGAGAAGGGAGAGAAGGG GAAAAAGGAAGGGGAAAAAAGGAAAAAAGCGAGGAAAACCAA C CAGGAGGGGAAAAAAAACCGGAGAAACAAGGAGGGGGAAAA G GAAAAACACGAGAGGAGAGCCCCCCAAGGCGCACCAAGC GA G G G GAACCGGAGGAGAAGGGCCCCGGGAAAAAAGGAAGCCCC GAAAAAGGAACCAAAAAAGAGAGGGGGGAAAACCGGGGAAAA G G G GAA $A \operatorname{GAA} A G G A C G G C C A A G G A C G G A A G G G G G A G G G G A A G G$ $G G A C G A G G G G G G A A A A G G A A A A G G A G G G G G G A G A A A A A A G G G$ AAAGGAAAGGAGCCACAACCAAAAAAAAAGAGGAACGGAGGG

A G G G G G A G A C A A G G A G G G G G G G G A G A G G G A A A G A A A GAAA A A
 $G G A C A G A A C A G A G G G A A G A A G A A G C A G A A A G G G G A A G G A C A A$ AAGGGGACGACCCCCAGAAAAAAAAAACGGGAAAACGAAGAC A GAGCAAGATGGGGAGGGAGGAGGGAGGGAAGGAAACAAAAA GAGAACACCCGAGGAGGGGGGGCCAAAACCAAGGAAAAGGGG G G A A A A G G G GATGGGGGGAAAAAAGAAAACAAAACCGAAAAA GAAGGGGGAGGGAAGGAAAACCAAGGAAAACCAAAAGAGGGG C C C C A C A G A A G G G A GA G A A CAAAA $A$ A A GAC CA G GA G G G G G G A A
 G GAGGGAAAAGGAGGGGAGGAGGGGGCCGGCCGGGGGGAGGG A A G G G G A A G GAGGGGAGAAGAAGGCCCCGGAAGGGGGAGGAG $G G A A G G C G G A G A A A G G C A G G G A A A G G A A C C A A A A A A A A A A G G$ A A G G A A A A CAGGGGAAAGCCGAAAGGGAGAAAACG GAAAA G G A A A ATTAGAAGGCCGGGGTAGAGGAAGGGAGGGGAAAAAACAAA A GAAAAACAAAACCGGGGAAAACCAAAAGGGAGGGAAGAGAA
 G GCGGGAGGAGAGGAAAGCAGCGAGAAGGAACGAGAAAAGCC ACAACCAGAGAAAAAAGGCAGGAAGGATCCAACCCCAAAACB AACCCCGGGAAGGACCGGAAAAGGGAGGGAAGGAAGGGGGGG G GAAAGAGAAGGGGGGGGAGGGGGGGAACCAAAAGGAAAGAA A G G G G A C A A C G A G A A G G G G G G A A A GACCAAGGCCTTGAAAAA AC G G G A G G A G G GA $A \operatorname{A} A G G A A A C G A A G G G A A A G G C C A G A G A G A A$ A A A A G G A A G G A A GAGGCCGGAGGGGGAGGAGAACACAAAGAA
 AAAGGGAAGGCCGGAAAGAAAAGGCCAAGAGGCCAAAGGGAG AAAGCAAGGGGGGAGGAGACGGAAGGAGAAAAGACAAAGAGA A GAAAGAGGAAAAGAGGGAGAGGGAGGGGGGAGGA$G A A A G A A$ GAAAAAGGGGGGGAGGGAGGAAAAAAAAGGAAGGAAGAAAAA GGGGACCAGAACGACAGGAAAGAGAAAAAAGGGGGGAAAGGA G GAGCCAAAGAGCCGAAAACAAAAAAAAGGAAGAGAGGAGAG GAAGAGAAGGAAGGACAAGAACGGAGAGGGCCAATTGGAAAC
 C C A G A C A A A A A G GC $\mathcal{C} G G A G G G G G G A A A A C A G G G G G A A G A G A A$ A A G A G GA G A A G A A G A A A A A A C CAAAAGGGGGGGAAA G G G G A A A A G G G G A A $\mathcal{A} A G A G G G G G G G G G A A G A A A G A G A A A A A G G A G G A G$ $A G C A G C A G G G C C C A C C A A G G G G T A A A G A A G A G A A G G A A G G G G$ AA G GAAAGAAGGAACAAGGGAGGGAGAGCAAAGGGGAAAAAA $A G C A C C A G G A G A A G G A T A G G A G A A C C G G A A G G G G G G G G A A G A$ GAAAAA AAAGGAAAAAGAAGGAAAAGAGGGTTCCGGAAAAAA GAAGCCAAAAAAACGAAAGGAAGAGAAAGGCCGGAACCGGCC A A A A A A A A G A A G G G G A A A G G A A C C A A A A C C G G A A G G A A G G T T A GAGAAAAAAGGAACCGGAGGGGGAACAGAAGAAGGAAGGGA G GAGGGGGAGACTAAAATGAAAAAAGCCAGGAAGGACCAGAA
 G G G G G G A A A A A A G A A A A A G GA G A A G GAA A A G G G G G GAA GA C A G G A GCCAAAAAAGGAAAGGGGGAAA GTTAGCGGGAA G GA G GA A A G G GACCCGGCCGGAAGGAAGGAAGAGGGGAGACAGGGAAAG G GAAGGACAAGGCCAAGAAAGGAGAGGAACAAGGGAGGCAGA
 G G A A G G G G G G G G A G A A C C G GAGGGGGAAAACAGGGAG
GAACGACGGAAAGAAGGGGAGGGGGGGAAAAAAGGGAAAGG CAAGCCAGGGGGAGACGGGAAAAAGGAGCCGGAAAAGAAGAG AACAAAGGTTAAAAAAGAAGAGAGAAGAGGCCAAAAGAGGAA G GACGGGAAAGGGGCCAAAAAGAACCAAGGGGAAGGAGAGGG A A A G A A G G A G A A A G A C A A A A A A G G A A A GAGGGAGGA GAAAAA A A G G G G G G C C A A A A A $\mathcal{A} G G G G A G G A G G A G A A G G G G G G G B A A C C$ $G G C C A A G G A G G G C C G G A A A A C C A A A A A A A A A A G G A A G G G A G G$ G G G G G GCCGAAACCGGAAAACCAAAAGACACCGGGAAGAAAA

G GCCAATTGGGGGGAAAGCCGGAAAGGGCCAAGGAGAAAGAG $A C G A C G C A A G A G G A A A A A A G G G G G G A C G A G A A A G G A C C B G A A$ AGGGAAAGCACCGACCGGAAGAAAAAGGGAAAGAGAGGAGAA AAGGAAAGCCGGGACCAAGGAAGGGGACGAAAGGGAAAAAGA A A GAGAGGAAAAAGGGGGGGGGGGGGGAAAGGAAGGAAAAAG $A G T A G G G G A A G G G A G G G G A A A A A A G G G A G G C C A A G G G G A A G G$ A A G G A A A A A G G A G G G A G GAGGGCAAAGGAAAGAAAAAGAAGG $G G A A G G A A G G A A G G A A G G G G G G A A G G A G C C A A A G A G A G G G G A$ A G G G G A C A G A A G G G G A G G G G G G C A G G A C A G CA $A G G G A A A A G G$ G GAAGGGGAAAAGGTTGACGCAAGGAAAAAGGGGGAGGAAAA G G G GAAAACCAGAAGGAAGGAGAAGGACGGAGAAAGGGCCGG A G G GAGAAGGGGAGGGAAAAAGAAAACAACCCAAGGGAAAGG $G G T A A A G G A A A A G G A G C C G G A A G A G A G G A A A A A A G G G G A G A A$ A A G G A C G G A A A G A A G A G A A A GAGGGACCGGGGGACCCAAGCC $C \subset A G G A A G A G G G A A G G G G G G A G G G A A A G G G A G A G A G A A G G G G$ A G G A A A G G G G G A G G A A G GAA A A G G GAGGGGCCGGGGAA GAAA

 A G G G G GAGGGGGAAAACCGGGGGGCCAGGGAAAAGAAACCAA GAAAGGACCCGGAAGGTTAAACAGAAAAAGAGGAGAAGACAA $A G C C A G A A G A A G A G A C C A A G G A A G G G A G A A G A G A G A A G A G A G$ A G GAA ACCAAGGGGGGAGAAAGGGAGAACCGGGGAAAGAAGG A G TA A A G G G G G G G G A A G G C C A A A A GAAAAA A A A GCCAAC C T GCAGGACCCCACGGAGAGCAGGAAGGGGAAGAGGAGGGCCCC
 CACCAAAAGGAGGGAGAAAGAAAAAAGGAAAAAAGGAGAAAA G G G GAACAGGAAGAAAAAGCCGCCGGAAGGACAAGGCCGAAA A A A C G G A A A A A A G G A G A GAGGGGAGGAAAGAGGAAACA G G G A AA $A \operatorname{A} G \mathrm{G} A A C C C C G G G C A G A T G A G G A A A A G A A C G G G A A A C C A A$ AAGGCAGGAGCCGGAGTAAGGAGGGGAAGAGAAGAGAGAGAG GAAA $A \operatorname{AGGGAC} G A C C G G A C A A G G G A G G G A A G A G A A A G A T G G A C$ GAAGGAGGACTTCCGGCCAAGGGGGGGGGAAGGAGGGGGGAG G GCAGAGGGCCAGGAAAAACGGGGGGGGAAAAAAGGAGAAGG CAGGAAAAAAAGACAAAAAGAGAGGAAAAACCAAAAAAAGCC GAAGAAAACCAACAAGGGAAAACCCCAAGGAGAGGAGGAGAG G G G GCCGGAAGGAGAAAAGGAAGGGGGAAAACGAAGAAGACA A A G GA $\operatorname{A} A A A A A \operatorname{A} A \operatorname{A} A A C A G G G G G G C C G A G G G A G A G A G G C C G G$ CCGGGGGGCCAGAAAAAAAAGGAAGGAAAACCCCAAGGACAAA A A A A A A A A G G G G A A A A A A A G GACCA A A GAGGAAA G G G GAAC C A G G GAGGAAACCCCAAGGAACCAAAAAAAAAAGAACGGGGGG AAGGGGAAAAGGCCAAGGGGAAACAGCCAAAACAGGGGAAAA A A G G A A G G A A G G G G A G C G G A A A C A C A A T G CAA G G C C G A A G G A A AACGAAAAAGGGAGGAGGGGGGGCCGGGGAAGAAGACBAAA A GCCGGGGCAAGAGAAAAAAAAAAGGAGGAAGGAATAGAGAA A C G A T T G G A A C C A A A A G G G G G A A A G G G G G A G G C A G G G G G G G G G GAAGAAAAAAACCGGAGAAAAGGGAAAAGAAAGGAAA GGCC A A A A A A G G A A G G G G G G G A A G G A G A A GAGC CAA G G G G C C A A A A AAAAGGAGGGGGAGCCAACAGACACCGGGACGCAAAAGAAAG GAGGAGAGAAGGAGAGAGAAAAAACCGAGGCAGGGAAACCCC A A A A A A A A A A G G G G GAAACCAGGAAAAAGGAAAGAACCCC GA A A A A G A A G CAG G G G GAGGAACCAAAACGGAGAGGCCAAGGGG AGGGCCAGGCGCACGAACGGACGGCGGGAGAAACCCAAGAAA C C A A A A G G A A C C G G G G A A CAGAGAGGAGAGAGGGAAAAAAGA GACCGGAAAAAAAAAAAAAAAAGAGGAGACGGGGACCCCCGG A A A G G A TAGGGGAGGGGAAAAGAACAGGATCCGGAGCCCGBA A G G A A G G G A G A A G G A A G G A A A A A G G A A A A A G G A A G G A G G G G G
 A GAAAAAAGGAACCGGGGAAGGAGGGCCAAAACCGGAAAAAG GAGAAAGAAAGACAGAGAAGAAACACAAGGAAAAAGAAAAAA

A GAAAAAAAGGAAAAAAGAAAAACCCGCGGACAGCCAGGGGG GAGGAGAAGAGAGAAAGGAGAGAAGGAAGGGGAGAAGAGAGG
 G G G G G GACTTGGGAAGAAAGAAAAGACAAACCGGGGGAAAGG AAAAGGAGAAGGAAAAAGAAAAAAGGCCGGAGAAAAGBAACC G G G G G G A C A A G G G G A G A A A A C C A GAC $\mathcal{A} G G G G G G A A A A A A A C C$ $A C G G G G A G A G G A A G G G A A A G A A A A G G A C C C G G G G C C A G C A G A$ GACCAACCGGGAGAGAAGAGAAGACAAAGAAGCCGAAAAAAG
 AAGGAAAAGGCAGAGGAAGGGACATAGAGGAGGGCCGGGGAG GAGGGATAGAGGGGGGAACCAGGGAAAGGGAAAAAAGAAAAG A GCCGAAAGGCCGGAGGAGGAAGGAAAAGGAAAACCAAGGGG GAACAGAGAGGAAAGGGGAAAAAAAAAAAAAAAGAAAAGGAA AAAGGAAGACGAGACCAGAATAGGACAGAAGGCCGAAGAAAA GCAGACGGGAGGGAAGGGGGGGAAAAGGGGAGCCGAAGGGCC AAAACCAAAAAACCAAGGGGAAAGCAAGGAAGCCCCGAGAAG
 A A GAAAAGAAAAGGAAGGGGGAGAGACAAGGGAAAGAACCBG AACCGGGAACGGTTTTGGTTCCGGAAGGTACCCAAAGGAACA GGCCAAAAGGAAAAAGCCGAAAGAGGAGACCAAAGAAAGGGG G GAGAAGGAACAGGGGGGAAGGGGGGAACCGGGGAGAAAAAG AAAAAACCCCAAGGAAGGAAGGGACCAAAAAGAACCGGGGAA A A G G A A A G G G A A G G A A G A CACAGAGGA GAAGAGAGAAAAGGG A G G G A A A A G G A G A A CAACACGGGAGAACGAACAC G GAAAGGGG G G G G GCGGGGAGAAAAAACCCCGGGGAACCGGAAGGCCAGAA
 ACGGCCGACAAAAGGAGAAGCCGGGGGGCCAGGAGGACAAAG A G G A G A A A A G G A A A A A A A A A A G A GAAAAA AAAAA A G GAA G G G G G G G A T T G G A A C A G G G G A A A A G G G G A GCCAACCAAAAGAAGAA CAAAAAAATTGGCCGGCCGGAAAAGAAAAGAGAAAGAGCCGG A A A A A G G A A GCAGAAACCAGTAGGAAAAGGGGGGAGGGAAGAG G G G G GAAGGGAAGGAGAAGGGAGAGGAAAAGGAGGGGAGAGA G G G G GCAACCGAGGAAAGGAAGGGAAGGGGGGAGAGAAGAAG ATGAGGAAGGAAGGAAAGGGAGAAAACAGGGGGACCGGAGAA A A A A GACCCCGGCCGGAGAAAAAGGGGGAGGACCAGAAAAAG
 G GCCCCGGGGAAAACCGGCCAAAAGGCCGGAAGAAAGGGGGG A A A A G GAAAAGGGGGGGGAAAAGGAGGAAAGGAAA GAAAGGG G G G G A A A A A A A G A A GAGAGAGAGAGGAGGGGAGAAAAAAGAG $A G G G A C G G G A A G G G A A G A G G A A G G G G G G C C G G G A G G A C A A G G$ $G G A A A A A A A A C C G G A A G G G G G G G G C C G A A A C C G G A A A A A A G A$ G G G G A G A A G G G A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A G G A A G G G G G A A A G A G G C C$ T TAGGAAAAGAAAAAGGAAAGGAAGGGGGGGGGGGGCCAAGA G GCAAGACGCGACCGACGCCAGAGGGAAAGGAGGAGACAGAA CAAA A A GAAAGGGGCCACAGAAGGGGAAGGAAGGAAGGAAAG GAAAACGGAAACGGAAGGAAAACCCCGGAGAGAAGGGGGGGA G GAGCCAAAAGAGAAAAAGGAAGGAAAGGAAGAGACGGAAAA G GAAAAAAAAAAAGGAGGAAAAAAGGCCAGGGAAAACAAAGA G GAAACAAGGGGGGCCGGGAACGAGGAAAGGAGGGGGGAGAA GAGGAAGAGGGGAAGAGGCGGGAGAGGAAGGGGGAAAAAAAA G G A A GAGACAGGAAGAGGCAAAAGAACCCCCCGAAGG
GCCGGGGCACAGGAAAAAAAAAAGGCCGGAGGAGGGACACG AAAGCAAGACAGAGAGAGAAAAGGGAAAAACCAGAGCAGGGA A GAAAGACAGAAAAGGGGGGCGAAAACCGAAAGGAAGACAGA A G GA GACCAGGGAAAGACAAAAAAGGAAACGGAAAAGGECTT GC G A A A A A A A G G G G G GCCAA A A A GAAAAC G G GAA G GCCCCCC G GAA A G G G GACCGGGGAAGGGGGGCCGGAAAAGACCGGAGAG
 $G G A G A A A A A A A G A A C C A C G C G G A A G G C C A G G A A A A G G G G G A G$

AAAAGAGGAGAATAAAGGAAACAAAAAAAAAAGGGGGAGAGG ACAAAAAATTGGCCGGCAAGAAAGGAAAAAGGGGGGAAAAAA G GAGAGAAAAGGGGGGAAGGCCAGAAAAAAGGAAAGAAACAA AA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A G G A A A A A G G A A A G A G A G G G G A G A A A A A G G G$ GGAACCCCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAGAAG G G GA $\operatorname{G} A \mathrm{~A}$ G GACCAGGGAGAAAAGGGGAAGGAGAACCAGAAGA G GCAAAAATTACAGAGGGAAAGGAAGGAAGGAGAAGCCAAGA GAAAGGGGGGAAGGCAGCCCGAAAAAGAGGGGAAGCAAAAGG GACCAAAAAAGGAAGGAAGGGGGGAAAAAAAACCAAAAAAGB AAGGAAAAAAGGGGAAGGACGAGGAGGGAACAGGAAAAAACC GAGGGGGGAGCCAAAAGGGGAAAAAACCGGAGGAAAGGACCC AAGACAGAAGGAGGCCAAGGACGGAAAAAAAAAAGGGCBGAC $G G A A C C C C A A C A A G A G G G A A A A G G G G A A G G T A A G A A G G A A G G$ G G G GA GAAAAAAGGAAAAACCCGGAGGGGGGGGGAAAAAAAC TAGAGAGAGGCAGGAAAAGGGGGAAAAGGGGGGAGAAACAAG CAA $A$ A A $\operatorname{A} G A A G G G G G G C A G G G G G G C C A G A A G G G A G G G G G G G G$ GGCCAAGGAAAACACAGAAAAAGAGGAAAGAGAGGGGGCAAA AACCGGAAAAAAAAAAAAAAGGAAGGGGGGCCCCGGGBAAAAA G G G G G G A A G G A A A A G G G G G G G G G GAAAACCCCAAG GAAAAAA G GAA $A \operatorname{GAAAAACCCCGGGAAGAAGGGAGGGGCCGGAAGGAGAG}$ GAGGCACCAGCAGGAGAAGAACAGAAAAAAGGACGGCACCAA G GAACCGGAAGGGGAAAAAAGGAGACCCAAAAGGGGGATACC AAACAGCCGGAAAGGGAAAAGGCCGAAAAAGGACAACAGAAC C C G G G G A C G A G GA $\mathcal{A} G G A G A G C C G G G G G G A A A A A G A G A A A A G G$ A A G G A GA $\operatorname{A} G \mathrm{G}$ GAAAAAAGGAGGGGGGGGGAAGAGACAAGATAA A G G GAAAAAAGGAGCCGGGGCCAGGGAGCAAGCAGGACAAAG G GAAGGCCAGGAGGAAGGGGAAGACACAAGCAGAGGAAAAAG AC G GCCAGAAAAAGGGAGGGGGAGGAGGGAAGAGAGGGAACAC G G G G A A A A G G G GACAA G GAACCCC GAGGAAGGGAGGAGAGCA CCGGCAGGAGGGGAAGGGAGCAGGAGAACAGGCCGGGGAGGA C C A G A G G A A A G G G G G G C C A A A A G A G G A G A CA A A GA G A A A G A A A A A A A A GAGGGGGGGAGGGGGAAGAGAGGGAGAAAAGACAAA A G G GAGCCCCCCGGGGACGGGGGGAAGGGGGAAA$G G G A G G A G$ GAAAGACAACGAGGAAGGAAAAGGAAGGGGGGGGAAGGAAGG A G GAA ACCAAAAGGGATAAGGGCACACCAGGGAGAGCAAAAG A G A A A A G G G A G G A A G G A A A A A GAGGGAAGGAGGGCAAAAACC
 G G G G G GAAAACAGGAGAAAAGGGAGGAAAAGGGGAAGAAGAAA A A A G G A G G G A GCGGAGAAAAGGGGGGGAAGAAAGAAGAAACC ACCGGGGGAGAGACGACCGGAAGGAAGAATAGAAGGGGAGAA G G G G A A GACCGGAGACGAGAAGAAAAGCAACAAGGGGACGAA A A G A A GACGGAGGGCCGGAAAAGGGAAAGGGAAGAGAAAAGA C C G G G G A C G A G G G G A GAGGAGAAACCAGGGAGAGGAGAGAGA GAGGAGGAGAAAGACAGGAGCCGGAGGGATGAGGAAGAAAAA A A G GCCAACCGAGGAAAACCGGGGAAAAGGAAAAGGGGAAGG C C G A A A C CAAA $A \operatorname{AGGGGGAAAAAAAAGGAAAGAGAAGGCACCC}$ GAACAAAGCAAAAAGAGGGGGGAGCCACCCAAAGAAGGAAGBG A A GCGGAAGGAAGAAAGGAACCGAGGGAAGAAAAGAACGGGG
 A G G A C A G G A G G G A G G G G G A A G G G G G G G G C C G G G A G G C C A G A G C CAAAACCGAGGAAAAAAACGGGGGGGACCGGCAAAAAGGAG
 G G A A G A G A A G G G G A G G A A G G A A T T A G G G C C G A G G G G G G A A G G G G GAAAAGAAAAAAAAAAAAAGCCGGAGGAGAGAAAGGGGGG A A A GAATAAGAAAAAGGGAAAGGGGAAAGGGGGGGGACAAAAA A GAGAGGGAAAACCCAAAGGAAGGGAAGGAAGACAAGGAAAA A A A A A A A A A A G A A A A A G GAAAA $A \operatorname{A} G A A A G G G G G A A A G G G G G G A$ A A A A A C G G A G A G G A G G A A G G G G A A A G G G G G G G C A G G A G G G A A $A G A G A A G G G G C C G G A A G G A A A A G G G G G G G G G G G G A A A A G G G G$

G G G G A A A A A G G G G G G G G G G G C C A C C C GAGGGAGGGGGAAC A A A G G G G G G A GAAAAACAAGAAAGAGGAAAAGAAGGAAGAGGAA AAGGAAAGAGAGAAAAGGAGAACCAAAACAAAGAAAGGGGAC GAAAAAAAGGAAAAAGGGGGAGGAAAAGGAAGAAAGAGAAAC G GAAAAAAGGGGAGGGAAGAAAAGGGAGGGAAAAGACAAAAA
 G G A A A G G G CAA $A \operatorname{G} G A A G G G G A A G A G A C C A A A A G A A A A G A G G G$ A GAGCAAGGAGAAGGGAAAAAGGAAGGGGGAAGGACCABGAA G G A G G A G G A C G G G G A A G A G G A A G A G A A G G A G G A C G A G G A A G G A A GAAGAAAGAGCCAGGAGGGGAAAAGAAAAGAGGGAACAGA G G GAACAGGGCCGGCCGGCCAAAAGGAAAAAAAAAAGGAGGA ACAAAGAGAAGACAACGGAGCCAGAAAAAAGGACGGAAAGAG
 GAACGGGGAAAGAAGAGAGGACGAGAAAGGAAAGAGGAAAGA G G G G A G A G A G G GAGGAAGAGGGGGGAAGCCCAGGAAAGAACC GAAGGAGGAAAAGGGGGGCAAAGAGGGGGAAAGAAACAAA GA A A A A A A G G A G A TA $A \operatorname{GGGAAGGAAAAAAAGGGAAAGCAGAGCCC}$ AACAGGAGAGGAAAAAGGAGAGGACAGAGACAGAGACAAGAG A GAG $A \operatorname{AA} A G G G G G A A A G A A G A A A C G G G G G G A G A A G G A G A A G G$ A A A A G G G G G G G GAGGGAAAAAAAAAAAAAAAGAAAAAGAGAA AGGAGGCCGGAAAAGGCCGGGGAAAGGGGAAAAAACGGAGGA GAGAGAGAGAGGAAGGAAAGTAAGGGAGGGAGGAGGGGAGAG GAAAAAAAGGAAAACCGAAGAGGGAAGGGAACAAACGAGGGG A GAG $A \operatorname{G} \operatorname{GAA} A G G G C C A G G G G A A A A G A A A A G G G G G A G G A A G A A G$ GAACGGGGGGGGCCGGCAGAAAGGAAAACCGGAACCCCAGGA $A C C A A G G A A G G G A A A G A T A G A A G G G G A A G A A A G G A A A A G G G A$ G GAGAGGGCAGGGGAAAAGGCCGGAAGGAAAAGAAGAGAGAG $G G A A G A G G G G A G G A G G A A A A G G G G G A G G G G A G A A G A G G A A G G$ AACCACACGAACAGAGAAAAAAGGCCCCTTAGGGGAAGAAGG A A GA $\operatorname{A} A A G G G A G G A A C G G G A A G G G G A G G G G A G A G G G G G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAAAGAGGAAGAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAGGGG G GAAAAAGCAGGGGGAGGAGACGGAAGAGGAAACAGAAAGCC A A G G G GAACCCCGGAGAGCAGAAGAGAGTTGGGAAAAGAA GA A G G G A C A C A G G G A A G G A A A A GAAA A G GCCGAGGA GAAAA G G G G G G G GCCCCGGCCAAACGGAAAAAAGGAAGGAAGAAGACAGGG AAAAGGGGAAAAGGAAAAAAGGGGGGCCGGAAAAAAAAAC GA A A GAAACCGGAGAGAGGGAGAAAGCCAGAAGGAAGGGGAGAA A A G G C A A G G G A G A A A A A G G G G G A A GA GAA A G A C C A A G G G G A G
 GGCAAAGGCAGAAAGAGGAGCAAGAACACCAGGGGGGGGGGG A A A A A G A A G G G G G A A A $\mathcal{A} G G G A A A A G G G G A G G G A G A C A B A A G G$ G GAAGGGGAAGGCAGGAGGAGGAGAGGGCCCCAAGGGAGAGG
 A G G G A A C C C C A G A G G G A G G G G A A G CAA A A A A G GAA A A G G A G G AC G GAAG A A A G G GACAGGAGCCAAAAGGCCACAAACAACAAA A G GAA A G A A A GAAAGAAGCGGGAAAAAAAAGGAAAAG GAAAAA AAACCCGGCCGAGACAAAAAGAGGCCGGAAAAAGAGATAGAG GAAAAACCAAAGAGGGGGAAAAAGAAAACCAAGGAGGAACBG
 A G A G A C A G G G A A A G GAGGACGGAGAAGGAGAAAGAAA
AAAAAGGGAAGCCAAAGGGCCGAGGAGGGAAAAAGGGGGGG $G G C \subset A G A C A A A C G G G G C C C C A C A G A A G G G A G G G G A A C C A A G G$ AAAAGGAGGAGAGAAGGGCCGGTTGGAGAAGGGGGGGGACAG A GAGATGGGAGGAAAGAGCAAAGAGCGGCAGGGGGGAAGGAA G G G G G G A G A T G G A G A A A A $\mathcal{A} G G G G A G G G G G G G G G G G A A A A A A G$ A GAGCCGGAGGAAAAAGGTTGGAGGGCCAGCCAGAAGGGGGG A A A A C C A A A A A A CAAAAAA AGGGGGAA GGGGGGAA GGGBAGA AAAGGGGAAAGGGGAGAGAGGGAGAGGAAAAAAGACGAGGGA

G G GAAA A A A G G G G G G G GAA A A GAAAAGGGGAAGAAAAAGAAA GAAA A A A C G G GAGAGGAAAAAAGGCCAAGAGAACAAGGAAGG G G G GCCAGAGCAGGGGGGAAAAGGGAAAGGAAAAGGGGAAGAG AAAATTGAAGAAAAAATTAGGGAGGGGGAGGACCGGAGGGGG AAACAGGAGAAGGACCGGAACCGGGGGACAAAGGGGAACCGG CAGGGAGGAAGGAAAGAAAAAGCCGGAAGGAAGABAABCCGG GACGCAGGAAAAAAGAGGGAGGGAGGAGGAGAAA GAAATTGG AAAGCCAAAGAGAGGGCCAGAAGAAAAAAAAAAAAAAAGGGG $G G C C G G G G G G G G A A G G A A A A A A G G G G G G G G A A C C A A A A G G A A$ $C C G G G G G G A A C C G G G G G G A A G G G G G G A A A A A A G G G G G G A C A A$ G G G GCCAAAAACAAAAAAGGAAAAGAGGACCCGGAGAGAAAA ACAAAGGAAGGGAAGGCCAGCAAGGGAACCGGCCAAGGCCGG
 GAGACAAAGGGGAAAACCAAGGAACCAAAAAAGGGGCAAAGG G G G G G GAA AGGGCCAACCAAAAAAGGCCAAAAGGGGGGAACAC AAGGGGGGAAGGCCGGCCAAAAGGCCGGAAGGACAAAAAAAG AAGGGGGGAGGACCTACCAAAGTTGAAGAGAAGAAAAAACAC A A A A G A A G G G A CACAGGGCCCAAAGGAAGGGGGGCACACAAC $A G C A G G G G G G A G G G A A G G A A A A C C G G G G G G A G G G G G G A A G A A$ A A GAAAAAGAGGAAGGAAAAAACCAAGGGAGAAAAACAGGAA AAGGAACCGGGAAGAAAGGACGAAGAGGGAGAAAAAAAAACA A A GAGAAATTCAAGAAAAAAAAAAGGAAGGAGGAAAAAGGGG AAAAAGGGGAAAAGAGGAAAAAAACCAGGCAACCACAAAGAG A A G G A A A G A ATTAAAAAAAAAAGGGGACAAAAAAAAGBAACC A A A A A A A A A ACCAAAAAAGGAAAAGAGGGAAACCAAGGAGAA GAGAAGCCAAGGAACCAAAAACCCAAAGGAAAGGGGGAAAAA G G G GAAAGAAGAGAAAGGAACCAAAAAAACGGGGGGAGGGGA C C G G G GAACAGGGGAAAAAGAAAAGGAAAACCAACCAAGGGG G GAGGGCCGGAGAGGGCCGGAGGAGAGAGGAAAAGGAACCGG AAAAAAGGCCAAAAGGGGAAGGACGGGGGAGGAAAACCAGAA A A G GCCGAGGGGAGAGAAGAGAGAGAGGCCCCAAAAGBAAAA G G G G G G TACCAAGAAAAAGGGAGAGAACAGACAAAAGGAAGA A A A A A A A A G G A A A GAAAACCGGGGAGAGGGGGGGAAAAAA GA G G G G A G C A G G A G A G A A G G G G G G G A G G G G A A A A C C A A G G A G G A GAAAAACCGGAAGGAGGGCCGGAGGAGAGGGGGGGGGGGGGA AAAAGGAAACAAGGAGAAGAGGGAGACCAAGGGGAAAAGGGG G G G GAA $A \operatorname{GAA} \mathrm{~A}$ GAAAAAGGAAGGGGAAGGAAAAAAAAAAGGGG G GAAAAGGGGCCGGGGGGAAAAAAAAAACCAAAAGGGGAAGA G G A A G G G G A A G G G G G G CCGGAAAACCGGAAGAAAAAA GAAAA A A A A C C A G G G A A A GAA A A A G GCGGGGGAGGCAAA GAAAAA G G $G G G A A A A G A C G G A A G G G G G G A A C C G G C C G G G G A A A G A A A G A A$ A A G G A A G G A A A A A G C C G G G G G G C C A A G G A A A G C C A A G G A G G C
 A A G G A A G G G G A A G G GCA $\mathcal{A} G G A A G G A A C C A C A A A A A A A A G G G G$ $A C G G G A A G C A G G A G A A G G G C G G G G G G A A G A G A G G G G G G A G G G$ G GAAGGAAAAAGAAAAAGCCCCGGGACAAGGACCAAAAAAAA AAGGACAGATGAAAGGAAGGACAAAACCGGGAGGAACCGGGG C C G GAAAAAAAGACAGGGAAAAAGAAAAAGGGCCGGGAAGAG A GAACAGGGGGACGGAAGACAGGAGGAAAAGGAGAAAACAAA
 AAAGAAGAAAGGGGGAAAAAGGGGGAGAAGGAGGGAAAAAGG AAAAAAGGGAAGAAGGCCCCAAAGAAGGACGAAAAAAACGGC A A G A A A G G A A G G A A C C G G G G C C G G A A G G G G G G C C A A A A A A C C
 G GAA $A \operatorname{GAAA} G A C G A G A A A A A G A A A G G A G A G G G A A G G A A G G C C$ A A A A A G A A A A A A A A A G GAGGAAAAAAAGAGAGAACCAAAA G G $A$ A A G G G A G A GAAACACAGGAGGGACGCACGGAAAAGGGGAGGG
 AGAAAGAACCAAGCAGGAAAGACCAGGAAAGGAAAAAACAAA

A A A A G G G G G G A A GAGGGGGGGGAGCCGGCAGGGGGGAAAACC G G G A A C A A G G G G G G A G G GAGAGAACACCGCAAAA G GAAGAC G G G GAGCAGGAAAAAAAGGACGAAGAGGGGAACCGAAGGGAGAA G GAAGGAAAACCCCAAGGGGGGGGGGGAAGGGAGGGGGAGAC A G G G G GAGAAACAGGGGGAAAACAAAAAAAAAGGAGGGAGAA A A A A A A A A A A A A A A A A A A GGGGCCAAGGGGAAAAGGCCAACAC G G A A A A G G A A A A A A A A A A A A A A G GAA G GAAAAAA G GAAAA G G G G G GAA A G G G C C A A $\mathcal{A} G G G G G G G G G G G A A G G G G G G A A G G A A A A$ A A A A C C G G C C A A A A G G A A A A A A G G G G T T A A A A G G G G A A G G G G AAAAAGCCGAGGAGAAAGAGAAGGGAAGAGGGGGGGAAAGCC GAAACCGGCCAAGGCCAAGGAAGGAAAAAGAACCAGAGAAGG G GAGAGCAGGAACCCCGGGGCCAAGGGGAGGGCCGGAAGAAA G G G A A A A GCCGGAAGGCCGAAGAAAAAGACAGGGGAAAAAAA A A A A A A A A A A A ACCACAGGGGGAAACCCAGGAGAAAAAGAGA GAGGAGGAGGGGAAAGGGGAAAGGGAGGAAAGAGCCCAAAAA AA G GAGGCAACCGGCACCAAGGGAGGAGAGAAGAAGGGGGGG A A G G G GCCGGAGAAAAAAGAAAGGGGGGAACCBAATGGGACC AAAAGGGGAAGGAAAGAAAGAAAACGAACCAGGAAGCCGGGG A A A A A A A A ACAAAAAAAAAGGGCCAGGAGGCCACAACCAGAA G G G A G G A A C C G G G A G G A G A A A A G A A GAAGGAACCAG G GAA G G AAAAAAAAGGGGGACCAAGACCCCAGGAGAAGACGGAAAACC GAGAATAAAAACAGAGGAAAGGGAGGAAGGCCAGAGAATACA A A G G G G G G A A G G G G A A C C G GAACCAAAAAGGAAAGAGGAGGG G G G G A G A A A A G A G G A C A A G GACCCGGGAGGCAGGGAAAAGAA T T A A G G C C G G G G G A A $\mathcal{A} G G G G A G A G A A G G G A A A C A G A A A G G G G$ A GACAGGGAAAGAAGGGAGAGGGAGGAGAGGAGCGAGGAGAA A G G GCA $\operatorname{C}$ GAAAAAACCGGAAGGAGGAAAAGATGGGGGGAGAA GACAGGGAAGAAGGGGAGCCAAGGGGGGCCCCCAGGAAAAAA GAAATACCAAAAACAAAAGGGGGGAAGGCCAGAGGGAACCBG $A A C C C C C A G G A G A G A A C A G A A G A A A G G A A G G G G A A A A A A A G$ G GAA $A \operatorname{GACA} A C C A G A A G G G A A G A A A A G A A G C A A A G A C C G G A C$ G G GAGGGAAAGGGGCCGGGAAAAACAGGAAAGAGAGAAGGCC AAAAGGAAAGGGGGAAGGAAAAAAGGAAGGAACCGGAAAAAA AC GAGGGGAAAAAGAAAGCCGGAAGAAGCCAGACAGGGGGGG
 A A G G A A G G A A G GC C G G A A G G G G G G G G A A A A G G G A A A G G C C A A CAAAAGAGAAGGGGAAGGAGGGCCAACAGAGGGGGGCCABAA A GAGCAGGAGAAAGAAAGCCGGGGGGGGCCGAAGAAAACAGA G GACAGGAAGCCGGAGAGAAAAAAGGGAAAGGAGGGABAGAA $A C G G C A G A A G A A C A G G G G C A G G A G A A A C G A G G G A A A G G A G A A$ $A G A A A A G G A G G G G G G G A A A A A G G G G G A A A A G G A A A G G G A G A A$
 A GAAGGAACCACGAAGACGGAGGAGGGAAGAAAAAAGGTTAG A A G G A A A G G GCCAAGGAGCCAGAAGAGGAAAAGGAAAGAGGG GAAAAACCCCGGAGGGAGAAAACCCAAAGGGAGGGAAGAGAG GAAGAGAAGAAGCCAAAAAAAAAACCGAGAAAACAGCCBGAA A G G A G G A A A A G G A A C A G A G G G G G G G G A A A A A G A A G G A A G G A G G G G GAGGACCGAAGACGGGGGGAAGGAACCAGGGAAGGAGAA
 A A G G A A A T G G G GAAA A G A A GAGCCAAAAAAAAAAGGGGAA G G G GAA A A G G G G A GAGGGAAGACAAGGAGACAAGGGACG
GCCAAAGGGAAGGCCAAGAAAGGAAGGAAAACCACAACAGA G GAACCAAGGGGGAAAAAACGGGGAGAAAAAAGAGAGGAGAA AAGGAGGAGACCGGGGAACCAAGGAACAGGAAAAGGCCAAGG C C A A G GAA $A \operatorname{GCC} C \mathrm{G} C \subset A A G G G G G G G G A A A A A A G A G G A A A A A A$ G G A A A A A A A A A A G G G G A A A GAAAAGGGGCCCCGGGAAA GA GA GAGAAACAGGGACCAGGGAAGGCCGGAACCGAGGAGAAGAAA G G G G G A G G A A G G A A G G A A A A G G GAGAGAGAACAAAA AAAA G A AAAGACAAGAAAGGAAAAGAAGAAAAAAGGAGGGGAGACAAA

AAGGAAGAAGAACGAGAAAAGGAAGAAAAAAAAAGAGACGCA G G G G G G G G G GAA $A \operatorname{GAA} A G G G C C G A G A A G A A A A C C A A A A A G A A$ TAAGAAGGAGAGAGAGAACAGAAGGGAAAAGAGGAAAAAAGAG AAA A A G G G G G G G G G A G GAAAGGGGGGGGCCCCGAGAACAGAC
 G G A A A GAAAAGGGGACCCAGAGAAAAAGGGAAAGAGGGCAAA G G G G A A A A G G G G G G A A C C G GAGGGGGAGAAGGCCGAAAGA GA AAAAAAGGAGGAGCAGGGCAGGGAGACAGGGGAAAGAGAGAA
 AAGGAAGGGGGGAAAAAAGGAAGGAAAACCAACCGGGGGGGG
 A A G G G G A A A A G G G G A A C C A A G G G G G G A A G G G G A A G G A A G G G G G G A A A A G GCCAAAAGGGGAACCGGGGGGGGGGGGAAAAAACAC A A A A A A G G G G A A A A A A G G G GC C G G G G G G C C G G G G G G G G A A A A G G G G G G A A G G G G G G A A A A G G G G A A A A G G G G G G A A A A G G A A A A G GAA A G G G G G G G G GAAAACCCCGGGGGGGGAAAAAACCAAGA G G G GCCCCAAAAAAGGGGAAGGCCAAAAGGGGAAAAGGAGAA C C G G G G G G A A A A C C G GAAAAACCGGGGCCAAAAAAGGGGTTGG G G G G G GCCGGGGCCAAGGAAAAGGCCAAAAAAAACAAAGGGG G G C C A A A A A A G G G G G G G G A A G G A A A A C C G A A A G A G G A A G G G G AAAAGGCCAAAAGGAAGGGGGGAAAAAAGGAAAAAAGGGGGG A A G GAACCAAGGAAGGGGAAGGGGGGCCAAGGGGGGAGAAGG G GAACCCCGGGGAACCGGGGGGGGAAAAACGAACAGAAAAAA A A G A A A A C G G A C A C G G G G G A G G G G G G C C A G A CAAAAC A A G C C GAACGAGAAGGAGACCGGGGACAAGAGAACAGGAAAACAAAA C C A GA $\operatorname{A} G A A A G G G G A A G G G G A A G G A A G G A A A A A G G G G A G G G A$ A G GAA A G G GAGGAGAAAAGGGGGGAAAAAAGGGAGGCAAAGA G GAGAAAAAGACAAGGCCAAGGAACCAACCAGGGAGGAAAAA AAAGGGGAAAGGAGAGGGAAGAGGAGAAGGAAAAGGABCAAG AAAAAAAGGGACAGGGAAAGGGATAGACAGGACCGAAGGGGG A G A G G A G A G G G G G G A A A G A G G A G G G A C A G G A A G A A G A G A C G A A GAAGGGGAAAGCACCAAAAAGCCAAGGGGACAGACGAGGGC AAAGCCGGCCCAAACCGAGGCACAGGAGAAGGGGAAGAGGGG ACATGGAAGGAAGACCAGAAGGGGACAAGGCAGGACAAAA G G GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGCAGGAG GAAAGGGGGAGGAGACGGGGAACCGAAGAAAGAAAAAGAAAA AGAACCCCCCGGAAACACAGAGAGAAGGGGAGGGGGAAAAAA CCAGAGGGAAAAGGACAGAACCGGGAGGAAAGCGAGGAAAAG A G G G A G G A G G A A G G G G A C A G A A G G G G G A G A G A G A G A GAAA A
 CAGGAAAGGGAACAAGAGAAGAGGAGGAGGAAAACCGGAAAA A A A G C A G A GAA A $A \operatorname{ACC} C G G G A G G A G G G A A G G G A G G A G A A G A G G$ A A G GAA $A \operatorname{GGGGGC} C A A A A A A A A A G G A A A A G G G G G G G G A A G G G G$

 $G G A A A A A A G G A A A A G G G G A G A G C C G G G G A A G G A A A A G G A G A A$ C C A G A G A A C C G G G G A G A G G G A A G G A G G G G G G A A A A A A A C A A A G GAGAAGGCCGGAAAAAAGGAAGGAGGAGAGGGGAGACAAAA A GAGAAAAAAGAGGGAGGGGAAAACCAAAAGGAGGAGACACA G G G G G G G G A A C C C C G G C C A G A A G G G A GAA $A C C C G B A C A G A G G G$
 GAGGGGGGGGGGGGAAGGGGAAAGAAGGGGAAGGGAAAAGGG G GAACCAAAAAAGGAAGGGGAAGGAAAAGGCCAAGGGGAAGAG G GAA A GCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGAAAAA A A A A A A A A G G G G G G G G G G G G A A A A A A C C C C G GAAAAAA A GAA A A A A G G G G G G G G A A G GCCCCAAAAAAAAAAAAGGCCAACC G G A A A A $\operatorname{A} G A A G G G G G G C C G G G G G G A A G G G G G G G G G G A A A A G G G G$ A A GGCCCCAAAATTGGAAGGCCAAAAAAAAGGAAAAAAAAAA AAAAGGGGAAGGGGCCCCGGAACCGGAAAAAAGGAAGGAAGG

AAAAGGGGCCGGAAGGCCGGCCGGAAAAAAGGAAAAAAGGCC A A G G A A A A G GCC G G A A G G G G C C A A G G G G G G A A G G G G G G G G A A G G A A $\mathcal{A} G \subset C G G A A G G G G G G G G G G G G A A G G G G A A G G A A C C G G G G$ G G G G G G G G G G A A A A A A A A G G G G G G C C G G G G G G G GC C C C C C C AAAGCCAACCAAAAGGCGCACAAAGAAAGGGGAGAAAGGGGG C C A A A C G GCC G A A A G G A A G GAC G G GAGGAAGGCCGGGA G GAA TA G GAA $A$ G AAACGGACAAAAGAAAAAGAGGAAA GAAAA G GAAA AAAAAAAAACGGGGCCGGAAAAAAAAGGGGAGGGAGGGAGAG A G G G A A G G A G G A C A G A G A G GAC GAGGAGGGTAAAA G GAA G GA A G G GAAGACAAGGGGGGAAGAAGGGGAGAAACGAAACAAAAA C C G G G GAAAAGGGAAAGAAGAGAAGGAAAAAAGACAAAAGGG A G G A T T C CAACAAGGAGAAACCACGAGGGGAGGGAAAACACC G GAA A A A C GACCAAGGGGAAGAGGTTACGAGGGAAGAAAAAA C CAAAAACGGGGGGACGGAGAAGAAAAGAGGGGGAGGGAGAA GACCAGCCGGAAAGAGACAAGGAAGGCCACGGAACAGGGAGG G G GAGCAGAAGGAGGAAAGGACGAGGGAGAAAGAAAGAGAAA GAGGAGGGGGAGAAGGAACAGGGAAGAAGACCBAAAGGGGGA G G G A G A A A G G G G G G A T G G C C A G G G G G A A G G A A G G G G G G C C C A $A G C A A G C A G A A A G G G G G A C A G G C A G G A A G A G G G G G G A G A G A C$ G G G G A A G G A A G A G G A A A A G G C G G G G A A A A T G G G G A A C C G A G A G G GAAAAAAAGGTAACAAGAGGGGAAGGGGCAAACCGGGAAA A A G G G GATCAAAAAGGGGCCGACCAAGGAAAAAAGGCCAAAAA T TAAAGGGGAATAAACGGCCAAAAAGGGGGAGAGAAGAAAAA A A G G G G G G G GAAAAAAAAAGGAGAACAAAAAAAAGAGAGAAAA A GCCGGC G A C G G G G G GACAAAGGCACCAGAAGGGGAAGAGAAC G G TAA A A G GAGAAGGGGGGAAGACGGGGGGGGGGAAGAAAGA A A A A G G G G G GCCGGAAGGGGCCGGAACCGGGGAAAAAAGGGG G $G A A G G G G A A G G G G G G A A G G G G A A G G G G A A G G A A C A A A G G G G$ A A A A A A A A A A A A A A A A G G G GAAGGCCGGAAGGAA GGGGAGAA G GAAGGGGAAAAAAAAAAGGAAGGAAGGCCGGCCGBAAAAGAG A A G GCCCCCCCCGGGGGGAAGGGGCCAAGGCCGGGGGGGGGG G GAAAAGGGGAAGGAACCCCAAAAAAGGAAGGGGAAAAAACC G GAAAACCGGAAAAGGGGCCGGGGAAGGAAAAGGAAGAAAAA
 A A G G A A A A C C G G A A A A G G A A A A G G G G G G G GAA $A$ G A A A G G G G G
 AAAAGGGGCCAACCGGGGCCCCAAAAAAAAGGAAAAAAAAGG A A A A A A A A G GAAAAGGGGAAAAAAGGAAAAGGAAAACAAAAA $G G C C A A A A G G G G A A G G A A A A A A G G G G A A G A A A A C A A G A C A A A$ CCGGCACCAAGGAAGGGGGGGGAGAGCCAGAGGAGGAGGGCC $G G A A A C G G G G A A A G A A A G G A A G G A A G G G A A A A A A A C G A A A G G$ G GAA A A G A A A G G G G G G A G A GACAGGGACAAGAAGA GAA G GAAA CAAGGGGGGGCCGGAAAAGGGGAAGGAGGAACAGGGAAAGAC G GAA $A \operatorname{G} G A G G A A A A G G A A G A G A C A G G G A C A A A G A A A C C C G G G$ AAAAAAGAAGAAGGGGGGAAAGAAAAAGAAGGACAGAGAAGA G GAA A G G G A A A A G G GAGGAACCAGCCGGCCAAAAGGACAGAC A G GAAAAAGGGGGGAAGGAAGGAGGGAGAGAGAAAAGGGGGG A A A A GAGGGAAGCCAAGGAAGGAGGGAGGAGGAGGGGAAAAG G G GAAAAGAAGGGGGACAAAAGGAAAACGGAGGGGAGAAAGA G G G G G A A G A G G A A G A G G G A A A G A A A A GAA $A \operatorname{AGGGGGGGGAGAC}$ A A A A G G G G A G A GAGGGAAAACAGAACAGACAGGGGGC
AAAAAGGAACAAAAAAAAAGGGAGGAGACAAACAGGAGAAA CACCGAAGGGAAAGGCAAAAGGGAGAGACAGGGAAAGGAGAA $G G A A A G C C G G A A G G A A G G A G A G G G G G G G A A A A A A A G G A G G G G$ A A G GAGAGGAAGGGCAGGAAAGAGGGGGAAGGGGGAAAAAAA A GAAGGAGCCCCACAAGGCAAAGGGAGGCCAGGAAAAAAAAG AAGGCCAGAGGAACAAGGAGAGGGAACCGAAGGGAAAAACBG $A G G G G G A A A G C C G G A G A G A G A G G G A G A G G A G A A G A G G G A G G A$ $C \subset A A G A A G G G A C A G A A A G G G G G C C G G A A G A G A A G T T A G G G G G$

GAGGGAAGAGCACCGGAAGGAGAGAAAAGGAAGAAGAAAAAG G G G A A C A A G G A A A A G G G G G G G G A C G G GACCCC G G G A G G G A A G CAAGGGGAAGAGGAGGATAAGGAAGGAAAGGAAAGGGGAGAT A GAGGACCAGGGAAGGAAAGGGAAAGAGGAGAAGAAGGAGAG ACGGAAGGAAAGGAGGAGGGAAAAGGGACCGCGGGGGGAGAG A GCCAGAGGGAGAGCCAGCCAGAGAAAAGAGGAAAAGGGGGA C CAG GACAAAGGCCGGCCAAGCAGAGGAAAAGGGGGGGAAAA G GAGAAGACCGGAGAGAAAGAAAAGGGGAAGGAAGAAACCBG A A A A A A C A A G A A A A G G A G G GAGGAAAGGGGAAGGGGCATAA G A G G GAA A GAAGGCCGAGAGGGGGGAAGAACAGGGAAGGGGGG A GAACAAGGAGAGAAAAAGGGGAAAACCGAGGAGGGAAAAAC A G G G G G G G A C A A A G GCGGAAAA A A G G A A A C G A G G A G G G A A G G $G G C C A A A A G G A A G G A G A G G A G G G G A G A A A A G G G G G G G G A A A A$



 A GAGACAGCCAGGGCAGGGAGAAGGGAAAAGGGGCCAATTCC G G GAGGAGAAAAAAAAGGAAGAAATTAAAAGGGGGGGGAACC
 AAAACAGAGGACAGGGAAACAAGAAGGGGGCCAAGGGGGGAG G GAAAGGAAGAAAAAGGGAAGGGAAGAGAGGAGAGAACACAA C C C C G GA $\operatorname{CGGGGGGGAAAGGACCAGGAAAGGAAAAAAGGGGGG}$ GA $A$ A $A$ A $A \operatorname{A} G G G G G G A A G G G G G G A A G G A C A A G G G G G G A A G G A A$ CAGGAACCAAGGCAGGAAAGGGAAAAACGGAGCBACCACCGA C C A A A A A GCA GACAAAAAGGAAGGAAAAAAGGAAAA GGCCGG $C C G G G G G G A A A A A A G G A A G G A A C C G C G G A G G A A G A G G A A G G G$ A A A A A G G A A GAGGGAAAAAAAAGAAGGGGGGACCAAGGAGAG G G GAA $A \subset A A A A G G A G A A A A A A A A G G G G G A C G G G A G G G G A A G G$ C CAAAAAGAACCCCGGGACAACGATAAGAAAAAAACGGAAGG G G G G G G G A G G A A G G G G C A A G A A G A A G A C G G C C C C A A G G G G G G
 GAAAGACCAACCAAGGAAGGGGAAGGAAAAAAGAAGAAAA GA A GAA $A \operatorname{G} G A G G G A A G G G A A C C G G G G C G A A G G A A A A A G A G A A G A$ CC G G G GAACCGGGGAAAACCGGAAAAGGAAGGGGGGAAAAAG A A A A A A A A G GCCAAAGGAGGAAGGAACCGGGGAAGGGA G GAA
 A G G G GA $\operatorname{A} A A A A A A G G G A A G G C A G G A A G A A C G G A G G G A A A G G G$ GACCAAGGGGAAAGAAGGAAAAAAGGCCAGAAGAAACGAGAA G G GA $\operatorname{G} G \mathrm{G} A \mathrm{~A} G A C A A C C A C G A A A G G G G G G A A G A G A A G G A G G G G$ AACAGGCAAGGGGGAAGGGGGGAAGAAGAAGGCCGAAGAAGG
 AACCGGGGAACCAAGAAGGAGGAAGGAAAACAAAGGAAGAAA G G A G A GCGAAAGAGAAAGGGGGAGAGAGGAGGGGACAGCCGG G G G GAGACGAGGACAGAACAGGAAAGAAAAAAGGGAAAAAGBG A G GAGGGGACAAAAGGGGGGAAAAGGCAAGCCAGACGCCGAG A G G G G G G G A G A G A A A A A $A \operatorname{GGGGAGGAAGGAGCGAAGGAGCGCA}$
 GAAGAAGGAAACAAGGGGGAGGAGAAGGAGCAAAATCCAAGB G GAACCAAACAAGGAAAAAGGGACGAGACCGAAGCCACAGAG A A G G G A G G G G G G A A A G A A A GAGGGGGAAAAAAAACCAACAAA
 G GAA $A \operatorname{GA} A G G A A G G A A G G C C A A G G G G G G G G G G C C C C C C A A G G$ G G G G A A A A G G G GCCAACCAAAAGGTTGGGGAAGGGGAAAACC $A A C C G G A A C C G G A A G G G G A A G G A A G G A A G G A A A A A A G G G G G G$ G GCCAAGGAAAAGGGGGGGGAACCAAAAGGAAAAGGCCAAAA AAAAGCGGAGGAGGAAAACCGACCAGAGGAGCGGGGCCAGGG A G G G A GC G A A G G G A G G A A A A G GA GAA G G G GAAACAA A A CAA A G GAGGGAAGACAGGAAGAGGAAAAGGTTCCGGGGCCCCAGAA

G G G GAAAAGGGGGGCCAAAAAAAAAAAAAGCGGGGGGGGGGG A A A G G G G G A A G G G G A A A A GAAAAAAAAGGGGGAAAAAAAAA A A A $A C G G G G G G G G A G G G A G G A A G G G A A G G A A A G G A G A A A G A G G A A$ AAAAGGAGAACAAGGAAAGGACACGAGGGGACCAAAGAGAAC A GAGGGGGAACAGGAGAGCAAAAGCAGGAAGGGGGGGGAGGG GAACGGGGAACAGGAGCCGAAAGGAAAGAAAGAACCAAGGAG AACCAGGAAGAGAGGGGGGAGAGGGGAACGACAAAGGBAACC G GAGGGAAAAGGAGGGGGGGAACCGGAACAGAGAGGATAAAA AA G GAGAGCCCCGGAAAAAAAGGAGAAAAGGAGGGGGGAABAA AAGGGGAAAAGGAAGGAAAAGACCAAAAGGCCAAAAAAGAAG $C \subset C C A A G G A A G G G G C C G G A A A A A A A A G G G G A A A A G G A A A A G G$ G GAAAAGGAAGGAACCAAAAGGAAAAGGGGGGGGGGAACAAA A A A A A A A A A A A A G G A A G GAA A G G G G G A A A A GGCCAAAA G GAA A A A A G G A A A A G G A A G G A A C C G G A A G G A A A A A A G G A A A A G G C C ACAGGAAAGGGAGAGGGACACAAACCGGGGACAGGAGGGGGA G G G GAA $A \operatorname{GAA} G G G G G G A A C C A A G G G G A A G G G G A A A A A A G G A C$ A A A GAAAAACAGGGGCAAGGCCGGGCAAGGAAGGAGGGAAGA G G G G A A G A G GAGGGAAAACCCCAGGAAGAGGGAAGGAGAGAA G G G GAACCAAAGAGGGAAGGAGAGGGAAAGGGAGCAAAAAAG GAAA A A A G G GAAAACAAGAGGGAAAAGGGGAGGAAAGGAGAA G G G G G G G GAGGGGGGGAGAGGAAAGAAAAGAAGGAGAAAAAA G G A A A A A G G G A A G A A G G GCCGGGGGAAACCGGAGGGAAGGCC A A A A G G A A G G A A G G A A G G G GAAA $A \operatorname{A} G A A A A A G A A A A G G G G G G G$ G G A A G G A A C C G G G G A A G A G G G A T A G G A A G G A A G G G A G G G G G G A A A A A A A G A GA GCCGAGACCAGAAGGCAAAAAAA GGGGCCGG G G G GAAAAAAGGAGCCCCAGGAGGAAAGAGGGGGAGAAGGGG AC GAA A G G G G G GAAAAAAGGGGAAGGGGGGAA GAAAGGGGCC G GCCAAAGAGAAAGAAGGGAAACCAACGGGGGGGGCGAAAA G AAAGGGAGTTGGAGCCGAAACCGGAGAAAAAGGGGAGGAGAG

 G GAAGGCCGGAAAGGGGGGGAAGGGGAAAAGAAAAGCCGGTT C CAA $A \operatorname{GA} A \mathrm{~A} A A A A G C C G G A G G A G G G G G A G G G G A A A A G A G A G A$ AA $A \operatorname{GA} A A A A A A A G G C C A A G G A A A A G G G G A G A T A A A A C A A A G G$ A A G G G G G G G G A A G G A A $\mathcal{A} G G G G G A A A A A A A A G G G G C C G G A G A A$ A A A A A A G G G G A A A A G G G G A A G G G G CC G G C C A A C C C C A A G G G G G GAAAAAAAAGGGGGGAAGGGGAAAAAAGGGGAAAGGGGGGG AACCGGAAGGCCAATTAAAAAAGGGACCGCAGGAGACAAAAAA G G G G G G G G G G G G G A A C A A G A A A C C C A G G A A G GAA A G C A G G C C A A A G A A A C G G A A G G G G G G A G G G G G G G G G A A G A A $\mathcal{A} A G G G G G A A$ $G G A A G G G A G G C C A C A G G A G A G G G G G G A A A A G G A A C C A A A T A G$ G GAGGGCCGGAAGGCCAAAGACGAGAGAGAAGGGCAGAAAGA AGAGAGAGAAAGAGAGGGAAGGAAGGGGGGAAAAAACC G GAAA AA A GAGGGAAAAAAAAAAGGAAGGAAGGGGAAACACGAGGAG $A G G A C A G G G G G G G A C A G G G G G G A G G G A A A G C C A G G A G A G G A A$ G G G G G G A G A A A A T T A G G G A GAGGGATA GCCGGGAAA A A GA CA G G A G A G G A A A G A A A GAGACCGACAAGGAAAGGGGGGAA GAAA G GAA A A G G GAGGAGAACCAAGGAAAAGGGGAGAGAGAGAGAA G GAGAAAAGGGAAAACAGAGAAGGGGGGAAAAGAAGCGAAGA
 G G GACCACGAAGACGGGGGGCCCAAGGAGGACAGCGA
AACGAAGGAAAAGAGAGGGCCGGGGGAAGACAAGGGGAGCC G G G G G GCC G G A A G G G A A A G GAA A G GAGGAGGGAAAGAA GAA $A$ AAAAGAAGGAGGGGGGAAGGAGAAGGAAGAAGAAGGAAGAAA GAGAACGAGAGGGGAAGGGGGGAAGGAAAAGGAAAAAACCBG G G A A A ACCAAAAAAAAAACCCCGGGGGGAAGGAAAACCGGGG A A G G A A A A G G G G C C A A G G A A A A G G G G G G G G C C A A G G G G A A G G
 G G G G A A G GCCGGAAGGCCGGAAGGAAGGAAAAGGAGGGAGAG

G G A G A A A G A A G G G G GAAGGAGGAAGGGAAGGAAGGAAACAAA GACCGACCAAGGAAGGCCAAAGAGAGAGGGGGGGAAGGGGGG AAGGAGGGCCGAGAGAGGAAAACCGAAGAGGGAGGGCCAGAG A GAGGAGGGGAGAAAAAAGGGGACGAGGCAAAGGGGAAGAAA $C C G G A A G G C G G G A A A G C A G A G G G G A A A A G A G A A A A G G G G G A A$ G G A A A G G A C C G G G G A A G G G G G A A A G G C C A A A A C C C C A A G A G A G G G G A G A G TA G GAGAAGAAGAAGAAGGGGAAGAAAAAACCCC $G G A A G G A A G G A A G G A C C A G G A A G G G G A A A A A A A A A A C C A A G G$ $G G A G C C G G A A A A G G G G G G A A A A A A A A G G G G A A G G A G G G A A G G$ CACCGGCAGGGAACGGGGAGAGGGAGGAGGAGGGGGAGAAAG
 A A G G G G A A $\mathcal{A} G G G G G G G G A A A A A G G A G A A G G G A G A G G A A A G A A$ A A TAA A G G GAGAACCCGGAAGGAACCAACCGGGGGAGGAAAA A A G GAAA $A$ A A A G G G G GACAGAAAGGGGATTTGGGGGGAGACAA G GAAAACCAAGAGAACGGCCGGAAAGAACCAAGGAAGGGAAA A A A A A A A A G GA A A A A G GAAAGGAACCGGCCAAAA GGGA G GAA ACAGGAGGAAAGAAAAGACCAAAGAAAAGGGGGGAAAAGGTT G G A A C C A A G G G G G G G G G GCCCCGGGGAAAGAAAACCGAGGGA AGGAGGGGAGAAGGAACAGAACAAAAAAAAAGAGGGAGAGAA A A G A G A A A G G A A A A G G A C TAAAA A GAGAAACCGGAAGGAGGG ACGGGGGGAAAAATGGAGACAAGGGGAAAACACCGGAAAGAA G GCAAAAAAAAAGGAAAACCAAGAGGGGGGAGCCGGGGTTAA

 G G GAGGAACCAAAAGGAAGGAAGAAGAAAGAGCAGGAAAGGG A A A A A ACCAGAAAAGGGGCCGGAGAAGGAGAACAAAAAGAAA A G G GACCCGGGAGGAAGGAACCAGAAAAGAAAGGAAAAAAGG A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G GAAAA G G G G AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAAA AAGGAAGGAAAAGGAAGGAACCGGAAAACCAAGGGGGGAAAA G G G G A A A A G G A A G G G G A A G G A A G G G GAA $A \operatorname{GGGGGGAAGGAAAA}$ AAAAGGAAGGAACCGGGGGGGGAAAAAAGGAAGGAAAAGAAA G G G GAA A G G G A A A A G G G G A A A A G G G G G GAAC $A$ A A A C C G G G G A A G G A A C C A A C C G G G G A A A A G G G G G G A A G G G G G G A A A A G G G G G G C C C C A A A A G GAAAACCGGAAAAAAAAGGGGGGCCAAGGAAGAG A A G G A A A A G G A A A A G G G G C C C C A A A A G G G G G G G G A A C CAA C C G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGGAACC AAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACAAACCGG

 C C G G A A A A G G G G G G A A G G A A C C A A G G G G G GCCAAAAC CAA G G C C G G G G G G A A A A G G A A C C A A G G A A G G G G A A G G G G A A G G C C G G $A A G G G G G G A A G G G G G G G G G G C C G G G G G G C C A A A A G G G G G G G G$ A A A A A A A A A A A ATTAAGGGGAAGGCCAATTAAAAAAAACAAA A A A A A A A A A A C CAACCAAAAGGGGGGAAGGAAAAGAAACCGG G G G G A A T T G G A A A A G GCCCCCCAAAAAAAATTAAAAGGAATT A A A A A ACCAAAAAAAAGGGGAAGGGGGACAAGAGAGCAGGAG A A A A G G G G G G GAGGAGCCGGGAAGGGAGGAGAAAAGCC G GAA AAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAAGA A G A A A A G A G A C A A A TAAAAAGAGGAAAAAAAACCAAAGAGAA A GAACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGGAA AAAAGGAGAAGAAGAAAAGGCCCCGGGGGGAGGGACAAAAGA G G G G A C G G A A G G A A A A A A GCGGGGAGCCCCAAAG GAACAGA G G GAACCCGAGGCGAGGGGGGGAAAAGGGAGGGGGA $\operatorname{CA} A A A G G G G$ AAAACAAACCGAACAGGGAAGGAGGAATGAGAAA GAGGAGAC A G G G G GCCACGGGGAGGGAAAAAAAGAACAGGAAAGGAGGAA
 C CAGGAGGAAGGAAGGAAGGAAAAGGCCAAGGAAGAAAGGGG AAAAAAGGGGAAGGAACCAAGGAAAAGGAAGGAAAAGAAAAA

A A G G G G G G G G A A C C C C G G G G G GCC G GAAGGAAAAGAAAAAGG A A G G G GAA $A \operatorname{GAA} A G G G C C C C A A A A G G G G A A A A A A A A G G A A C C$ A A G GAA A GAACCAAAGATAAGGGGGAGAGAGAGGCCGGAGA G AAAAAAGGCGCACCGGAGCCGGGGAGAAGGGAGAGGGACCGG A GAACAAAAAGAAAGAAACAGGAGGGAGGGCACAAAAGAACC G G T TCCAAGGACAGAGCCGAAAGGGGACAAGGCCGGAAGGGA C C A A G GCACC G GAAAGAGGGGGAAAAATCCGAGGGAAAAAAA AAAAAAGGGGAAAAGACCAAGGGGAACAAAACGGGGGGAAAA G G G G A A A C G G A C G G G G A A G G G G A G A A GAGAACAC G GAAAA G G AAGGGAAGAGAGAGGAGGAAAGGAGGAGGCCAA GGAGGGGGG G GCCGAGGAGAAGGACGAAACGAAAAACGGGACCAGAGGGGA G GACGGAAAACCCCGGAACCAAGGGAAAGGGGAAAAAAAGAA A A G G A GAGGCGGAAAAGGAAGAAGACAGCCAGGGGGAAAAAA $G G A A G A G A A G A A A A G A G G G G A A A A A G A A A G A G G G C A A A G A C A$ GAGAGAGGAAAAAAAAGAAAGAAACAGGAGAGAGGAGAAGAG G GAA $A \operatorname{GAA} A A G G G G G G A A G G C C A G A A A G A A A G A G A G A C A C A G$ GAAAGGGGAACCAGAAAGCCAAGGGAACAGGGAAAGGGAA GA G G G G A G A G A A A A G G A A GACCAAGGGACCGGGAGGCCCCGGGA AAAAAGCAAAAGACAGCCGAGGAAGGGGACAAGAAAGGAAAG C CAA $A \operatorname{GGG} G \mathrm{G}$ GAAAAAAAGGGGGGGAAGACAAGAAAAAAAGAA A A G GAAGGAAAAGGGAGGAGACAAGGGGCCGAAGAACAAGAA C C C C C C T TACCC $C \subset G A G A G G A A G G A A G G A A G G G G G G A A A A A A$ G GCC G G A A G G G G G G G G C C A A A A G GAAAA A G C C A A G GAA G G A A
 G GAAAAAAGGGGAAGGAACCGGAAAAGGAAAAAAAAGGAGAA $C \subset G G G G C C G G G G A A A A G G G G G G G A G A G A G G C C G G A A A A G G A G$ A GCCGGGGAGGGGGGGCCAGGGGAGGAAAAAACCAACAAAAA A GAGCAAGGAAGAACAGAAGGAGGCCAGGGGGCCCAAAGAAG A A G G G G A A G G G G G G G A G G G G G G G G A A A A A A A G A A A A GAAC A A GAGGCCGGGGGGGGGGGGGGAAAGCAAGTTGGAAAAAGAAGA G G A A G A A G A G G A A C G G G G G G A A A A A A G G G A G G C C A G A G G A A G AGCCAGAGGAAAAAAACAGGAGAAAAGGTAAAGAAGAAAAAA A A A A A CAGAGGGGGGGAAGAAAAGGAAGGGGGAAAAAAAGGA
 G G G GCCAAACAAGGAAAAAAAAGAGGGGAAAAAAAAGGGGGA A G A A A A G G G G G G G G A G G GAGGGGGAAAAAAAAGGAACAGA G $\mathrm{A} A$ G GAA ACAGAGAGGCGGAAAAAAGGAAGGAAAGACGAGAAAAA T TAAAAACACAGAGGGAGGAAGACCCGAGACACCAAGGTTAG GAAAAAGGAAAAGGGGGGAAGGAACCAAAGGGAGGGGGGGGG A A G G A T C A C G G G G G A G A A C A A A G GCC G GAAA A A A G G G G A A G G $A G C C A A G A G A A G C G A A G G G A A G G G G G G G G G G A G A G A A A A A A G$
 G GAAAAAGAAGGGGGGGGAGGAACAGAACCAAAAAAAAAGAA GAAGAAGGACAAAAGGAAACCCGACATTCCGACCGGGGAAGA GAAAAGGGAGGAAAAGAGGAAAAGGGGGAGCCGAAA GAGGGA AACCAACAGGGGAAAACAAAAAGGAAAAGAAAGGAGAGAGAAA A A A A C CA GAC G A A T GAAAGGCAGCAAAAGGGGGGGAAGAAAA CAAACCGAACAAGGCCGAAAAAACAGGACAACAAAAGGGGAG AACCCAAAGAAAAAAAGGGGAAAAGGAAGGCAGGAAGAAGCC A A G G G GACCCAGAAAAGGGGGCAAGGGGAAAGAGGAAAAA G G $A$ G GCCGGGAGAAAAGGGAGAGGAGGAAGGGGCCAAAAG
G G GAAACAAGGGGAAGGGGCCAAGGAAGGGATTCCGGAGGG CAAAAGAGAAGAGGAAAAAAAGCCGGGGGAAAGACCGBAABAA G GAGAAGAGGGGGGAATTCCGAAGGAAGGAATGAAAGGAACC A A A A A A A A G G G GAAAGAGGGAAGGAGGAAGCAAAAAAAAGGG C C A A G G G GCC G A G G C A G G C C G G A G G A A G C C G G A A A A A A G G G C G GAACAGGCAGAAACCAAGGGAAAAAGAGGAACCGACAAGCC A A C C C C C C G GCAA GAC G G G GAAGGAGAAAAACCCGAAAAAAA $G G C C A A A A A A A A A A G G A A A G C C A A C G G G T T A G A G G G C C C A G G$

A G G G A A A A A GACAGAAAAAAGGGGAGCAGGAGAGGGCCAACC G GAA A G G G G G G A A G A G A GAATTGGAAAAGGAAAGGGGGCAAA A GAA $A \operatorname{GG} \mathrm{G}$ CAGAAGGAGGGGGAGCCACGGAAGGAAGGAAAAGG $C \subset A G A G A C A G A A C A G G A A A A A A G G G A A A A C A A A G A A G A G G A G$ ACAGAGAGAGAGGGGGAGGAAGAAGGGACCGGAGCAAAAGAG
 A G G G G G G G G G A C G G A A A GC C C CA $\mathcal{A} C \subset A C G G G G G G C C G G G G C A$ $G G C A G A A C A A G A G A G G G G A A G G A C G G A A A G G G G G G A A A A A A G$ A GAACCGGAGACGGAAGGAGGAGGACAGAGAAAACCAAGGCC $C \subset A A A A A A G G A A A A G G C C A G G G A G G A G A C C G G A A A G G G G A G A$ A GCCGGAAGAAAAGAAAGAGCCGGGGAAGGAACAAGGGGAGG

 G G A A G G A G G G G G G G A G G G G G G G C C G A A C A G G G G G G G A G G G A G AAAAGAAGGGGGGAAGGAAAAAGGGGGGAACCAGAAGACC AA GAAACCTAAAGGGGCCAGGGGAGGAAGGGGAAAAAGGGAGAC G GAA A G G G GAA $A \operatorname{A} \operatorname{A} A A G G G C C G G A G A A G G G G G G A A G A G G A G B A$ A A G G G GAA A A G G G A A G GAGAACAACCGAAACCGGGGCAGGAA AA G GAAAAAAGAAAGGAAAAGGATGAAGAGAGGAAAAGGGCC C C G G A G A G A A A G A G A G A G C A A G G G G G A G G G G G A G A G G G G G C A AAGGACAAGGGAGACCAGGACCAGAAAAAAGGGGAGAGAACC AAAGAAGGACAAAAAAGGGAAAAGCAAGCAAAGGAGGGAGTT A G G G G G A A A G G A A A A A A C A G G G A A C C G G G A A G G A A G G G G A G G A A G G G G G G A A G G G G A A A A C C C CAA A GAAAACCAAAAGAAA G G C C G GAA $A \operatorname{GCCA} A C C G G A A A A G G A A T T A A G G C A A A G G A C A G A G$ A G A A A A G G A G G G G G A A G G G G C C A GCA G G G G G A A A A A G G A A A $G$ ACAAAGGGCCGGAAGGGAAGAGGGAGAAAACCGGGGGGAGAA G GAA A G G G G G A A G G G G A A G G G G A A C C A A G GAA G GAA G GAAC C G G A A A A A A A A A A G G G G G G A A A A G G G G G G G A A A G G G A A A G G A G G G T T G G G G G G G GAAAAAGGAAGGAAAAAAGGGGAAAAGGAGAA A A G G G A G A C G A C G G G G A A A A A A A GACCCGGGAGAAACAAA G G AAAAGAAAGAGGAAGGAGAAAAAAAGAGGGAGAAAGGAACAA G G GACAAAAGGGGGAGAAGGGGAAGAGGGACAGGCAGGGGCC T T T T G G G G C C A C A A A G A GC C G G G G A A A A C C G G G G G A C C A A $\mathcal{A} A$ G G G G G G G G A C G G G A GCGGCCGGGAAGAAAAAAAAAACAAAAA G G C A C C A A A A G G G G G G A A A A A A A A A A G G G G G G G G A A A A A A G G C CA A G G G G G GAAGGGGAAAACCGGGGCCGGGGAAAAAAGGAA A A G G G G G G A A A A A A A A G G G G G G G GAAAA A G G GAAAAACACAA G G G G A A A A C C G G C C A A G G G G A A A A A A G G G G A A A A G GAA G G G G G G A A G GAAAA $A \operatorname{A} A A A A A A A C A A A G G G G A A G G G G G G G G G G G G G G$ $G G C C G G A A A A G G G G G G A A G G G G G G A A A A A A A A G G A A G G G G G G$ GGAAGGAACCAAAAAACCGGAAAAAAGGAACCAAGGGGAAAA G G G G A A G GCCAAAAAACCGGCCGGAAGGGGAAAAAAAAAAAA $A A G G G G A A G G G G A A A A G G G G G G G G A A A A A A G G A A C C A A A A G G$
 A A A G G A A $\mathcal{A} G G G G A A G C G A G G G G C C A A C C G G G G G G A A G A G G A A$ A A A A G GCAGGGGGAAAAACCGGCCAGAAAAGAAAGGAAAAAA ATAAGGGGCAAGCCAACCGAGGCCGAAGGAAGGGAAGCCCGG ATGAAGGAGAGGACGGGGAGCGGGGAGGGGCCGAAAGAGAAA A A A A A G G G GA G A A A A A A A A A GAAAAAAGGGGGGACAGGA G GAA GAACGGCAAGGGGGGGGGGGACGAAGTAAAGGACAAGAAAGG A A GAAACCGGAAGAAACAGGAGGGGGGGGGGGAGGGCCACAA G G G A G GCCCCAAGGAGCAGAGAGAAAAGAAGGAAGGAGAAGG AAAAAAGGAAAAAAGAGAAGATAGGGAAAAGGAGAAGGGGGA GAAAGAGGGGAAAACCGGGGCAAGAAGGAAGAGAAAGGAGAA AGGAGAACGGCCAAAACCCCACGGCCCCAGCCGAAGAAGGGA A A C C G GAAAGAAAAGGAGAGGAAGAAGGAAGGGGAAACAG GA $A G A G G A A A A G C C G A A A A A G G A A A A G G A A A A G G G G A G G G A A G A$ $G G G G A A G G G G G G A G G C A A G G A G G G A A A G G G G A G A A G A A A G G G$

A A G G G A A A C G A GAGGGAGAGGAAGAGCAAGAAAAAAAAAAGG A G G A G GACCGGGAGAGAGGGACAAGGGGAAGAAACCATAAGG G G A A C C G A G G G G G GAGAGAGAAAGGAAAAGCAGGAAAGCCGG G G GAGAGGAAAAGGGGTTGAAGACAAGGAAGGGGAAGGCCAG A A G G G GAA A GAAGGAAAAGGGAGGGGGGAACCGGGGAAAAAA
 GAGGAAGGGGGGGGAAGGAAGGGGGGAACCCCGGGGGGAGAA AAAAGGGGCCAAAAGGGGAAGGGGGGGGAAAACCAAAAAGAG A A G GCCGGGGAGGGAAAGAGGGAAAAGAGGGGGGAAGGAGAA GGCCAAGGGAAAAAAAGAAAGGACGGAAGGGGGACAAAAACC G GAGGGAAGGGGCAGAAAAAAGGGAAGGGGGAAACCAAAGAA G G G A G G G G G G A A G G G G A A A G G G A A G A A G A G GAA A A G A A A G G A A G G A G G G A G G A A G G A A G A A G A A G G TAA A A C G GC C A A G G G G G A A A A G A A A G A G G A G G G G A A A A C C G G GAGCGGAAGAA GAGAA GA G G GAAA A A A GACGAGAGGAAAGAAAAAGGAGAAACCTTGAGG AA GAGAACGGGGAGGAAAGAACCCAGAAAGAAGGAAGCGGCC A A A A G G A A GAA A A G G G G G G GAAA A G G CAA A G GAAAAA A G G G A A A A A G G A G A A A G GAA A GAGGGGGGAGGGAACGCCCAACAAAAA C C A A G A C G GAAAGGGGCCGGAAACAAGGAAGGGGGGGGAAAA T T G G G G G A G G A A G G G G G G A A A G C C A C A G G G G G G A C C G G G G G A $C C G G A G A A A G C C G A G G A A C C G G A A A A A G A A A C G A G A G A C C G G$ G G T TAACCGAAAGGAAGGGGAAAAGACAGGAAAAAAGGGGCC
 A A G G A A G G A A A A A A G G G GCCGAGACCAAAAAAGAAGCGAGAA A G G G G A G G G G A A G G G G G A G A A G G A G G G G G A C C A A G G A A A G G A
 AACCGGAGCAAAAAAAGAAAAGGGAGAGGGGGGAGGACAGAAA $A G A G A A A A G G G A G G A A A A A C A G A G G G A G G G G G A G C C G G C C A G$ A GAGAGGACAAAGGAAGGGGAAACGGAAGGAAGGAGCAAAAG AACCGGGGGGAAAAGGCAGACAAAGAGAGAGGAGCAGACAAA G G A A A A C A A A G GAAC CA $\mathcal{A} G G A C G G G G G G C C G A G G G G A C A A G G$ G G G G G G A A A G A A G GAGGGAGAAGACCCCGGAAAAAAAGAAGG
 A A A G A G G G A A G G G G G A G A A A G G C A G G G G C C G G G G G A C C G A G A GAGGAAGGCAAGGAAGACGGCCAAAGGAGGCCAAACAAAAAA A A C C G GCCCC G G A A G G G G G G G G A A A A G GAA A A GAA G G A A A A A G GAAACCCAGGGGAAAAAAGAAGGGGAAGAAGCCAAGGAGAA AAAAGGGGAAAAAAAGAGAAAAGGAAGGAAAAAAGGAAGGGG G G G G G G A G A G A A G G A A A G C A G G A G G G G G A G A A A G G A A A G A G A G G G G G G G A G G A A A A A CAACCGGAAGGACAAAAGAGGCCAC G G CAGAAAGGAAAAAAAGAAGGCAAAGGCCAAAGGBAACCAGGG G G G G G A A G G G G C G G G G C C G G C C G G A G G G G G G G G G A A G G G G A G AAAGGAGACCGGGGAGGAAAAGAACCAGGAGGAGAAGAGGGG A G G A A A A A A A G G G G G G A A T T A G G A GAA $A$ A A A G G A G A A A A G G G A A G A G A G A A G A G G A C A A G A A A G GA $A$ A A A G G G G G G G G G A A G G G G G G G A G G G A G G C A G G GAAA $A \operatorname{AGGAAAAAGGAGGAAGCAAAAGAA}$ A A C C G A A C A G G A G A G G G G G G G G G G A A A A A A G G C C A A C C G A A C A GCCGGGAAAGAAAGGAAGGGAAGAAGGAACCAACCCCAGAG AAAACCGGGGGAGGCAAGGGGAAGAGAAAAAAGAGGAAGGCC G G GCAAAATTGGAACGGGCACCGACAAGGGAAAAAGAACCGG A A A A G G A C A A G G G G A G G G A A G G G GCCAACCAC G G G G G
G GAGGGGGGCCAAGGGGAAGGGAAGTAGGAGGGCCAGAGGG CAAGAGAGGAACAAAAGGAAAGGGGGGGCCGGAACCGAAAAA AAAGAAGGAGAAGAGAGGAGAAAACCGGAAGGGGAAAGAAAA A A A A G G G G G A G A G G G G C C G A G G G A G G G G A G G A G G G G A G A A G G $G G A A A A G A A A G A G G G A G G A C A C G G G G A A G G G A A A A C G G A A G B$ A G G G G GAGAACCGAACGGAGTAGGGGAGACGAAAGAAACAAA $A G G G G G G G G G G G G A A A G G A G G A G G A G G G A A A G G A G G A G A A A G$ A GAGGAGGAAGAGAAAAAAGAGGAGGGGGAGGAGAAGACCGG

GAAACCGGGGAAAGAAAAGGGGGGGGGGAGCAGAGAAGAACC A GAGGAAGGGACAAAAGGCCAAACAAAAGAGGAAGGCCAAAG $A G A G A G A A G G A G G G G G A A G G G A G G A C A G A A G G A A G G C C A G A A$ G GAGGAGGAAGAAAAGAACCGGCCGGAAAAAAAAGGGGGACC A GAAA A A G T T G GACGGAGAGGGAAAAGGAACCAAAAAA GGAG G G G G A A A A G G G G A A G G C C G G C A A CAGGAAA A A G GAC G G A C G A GAGACAAAGGAGGAGGGGAAAAGGAAAGAAAGACCAGAGAAG GAAGAAGGAAAAAGAGAGCAAAGGCCGAGAGAGAGAGGAAAA GGCCAAAGGGAAAAAAAAGGAAAAAGGACAAGAGGGGACABA G GCCGGGGAAAGCCAAGGAAAAGAGAGGCCGAAGAAAAAAAA AAAAGGGGAAAAAAAAAGAAGGTTGGAGACCCAGGGGAGAGA A A A A A A G G G G G A A G A A G G G GAA A A A A GAAA A G C C G GAA G G A A A A G G G A A A A GAAGACAGGCCGGAGAAAGGGAAGGAAAGACAA C C C C A C G C G G GACAAACAAGAAGAAACGGGAGTTGGCCAACC $G G C C A A A A A G G G G G A A A G G G G G A G G A A G A A A A G G G A A G G G G G$ G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A}$ GAAAAAGGAGGGGAAAGGAAGGAGAAAGGGATGA ACAACAGAGGACAAAAAAGGGGGGAAGGAAAACCAAAAAAGA
 AAGGAAAAGGAACCGGAAGGCCAGAAAAGGAAAAAGAGAAAA G GCCGAAGAGAGAAGACAGAGGCCGGAGGGGGAGGACCAGGG $A C A A A A C C G G A T A G A A G G G G A A G C A A G G G G C C C C A A C C G G G G$ G GCCAGGAAAGGAAAGAGAACCAAGAAAGATTCCGGGAGGAA CAGAGGAGAGAGGGAACCAAAGACAGGGCAAAAAGGGACAAA C CAAAAGAACAAGGGGAAAACCAAAAAAAAACGGAAGGAGAA A A A GAAAAAGGGGGGGGGAAAAAAAAAAGGAGAGGGCAAA GA GAGAGGGGGGGAGGGGAACCAAGGCCAAAAACAAGGGGCACG
 G GAAAAAACCAAAAGGGGTTGGCCAAGGAAAACCCCAGAAAA AAACAAGGCCAAAGACCCGGAGAACCAGCCAAAGAGAAGGAA AA $A$ A $\operatorname{A} G A G A G G G G G G G G G A G A A A T A A A A A A A A G G C A G G A G A A$ $A G G G C A A A A A G G A G G A G G G A A A G G G G G G G G G G G G G G B A G G C A$ G G G GAAAAGGGGAGGGGGAAGAGAAGAAGGGGAAAAGGAGGA C CAGACAGGGAACCCCAAGGAGAGAACCAGAAGAAAAAGGGG G G G G G G G G G G A A A A A A A A G A G G A GAGGAGGGGGAG GAA G G A A A A G GCCAGGAGGGGAAGGAAGGGGGGAACCGGAAAAGAGAGG A A A GCCGGGAAATTGAAAGGAGAAGGGGGGAAAAGAAAGGAA G G G GCCGGAAAAGGGAGGGGAAGGGAGAGGGGGGGGAAGAAA G G GAAA A G G GAAGGAAAGGAGGCCAAGGGAGAGGGGAACAA G G GAAACGGGGAAAGACAGAAACAAGAGGAAAAGAACAAGAAG
 A A G A C A A A G G G G G G G G A G G G A A G G G G A G G G G G A G A A A G A G G G A G G G G GAAAACCAAGGAAGGAGAACAGGAAAGGAACGAAAAG G G G GAAGGCAAGGGGCGGAAACAAAAGGCCAAGGGGAAGAAA AA G GAACCGGAACCAAAATAAAGGAAGGGGAAGGAAGBACAA GAGGCCGGAGAAACAAAAGGAAAAGGAAAAAAAAGGGGGGGG GAAACAAAGAGGAAAAGAGGAAAAAAAAGGACGAAAAAAAAG $G G A C G A A C A A C G G A A A A A A A G A G G G G A A G G G A C C G G A G A G A A$ G G G G A G G G G G A G GC G G G GAA $A \operatorname{AGGGAACCCCGGGGCCGAGAAG}$ A A T TA $A G G G G G G G G A A G A A A G G A C G G G G A A A G A C C A A A A A A A$ A A G G G GAAAAGAGGAACCGGGGCCAAGGGAAAAAAATAAACC A A G G A G G G A G A A G G GAGGGGCAAGACGAAAAAGAAGGGAAGA GACAAACCGAAAGAAAGGAACAAGGGGGGGAAGGAGAAACAA G GAGGGCCAGGGAAGGGACCAGGGAGAGACAAGACCAGAAGG G GAAAAGACGGGGGCAGGGGAAGGCCAACCAAAGAGGGGGGG G GACGAAAAAAAAAAAGGAGAAGGAGGGCCATCAGAAAGAAA G G G G G G A G GAAAAA A A G G A A G G G GAACCAGAGAAGGGGAGAA G G A A A A A C A A G G G G G G A GAGGGAAAAAAAAAGAAA G G GAAA G G G GAAGAGAGGCCACAAGGGACCGAGGGGGGAAGGAAAAAAAC GAGGGGCAGAGAAGGGGGAGGGACGAACGGAAAGACAGAAAA

G G G GAACCAGGGGGAACCGGGGAAGGGGAAGGCCGAAAAAGG A GACAGGGAGAACCGGGGGGCCAAGGGGAAGGGGGAGGAACA $A G G A G G A A G A G G G A A G G A G A C C G A G G G G A G G A G G G A G A A A A A$ A A G G G G GAACAAGGGGAGAAAGAGGAGAAAGGAAAAAAAAAA GAGAAAAAAGACGAAAGGGGGGGGGACAAGAGAAGGAAAGGA
 GAAGCAAAGAGGAAGGGGGGGGCCGGAAAAGGGGAAAAAAGA $G G A A G G A A G G G G G G A A A A G G A A G G A A G G G G G G A A G G A A G G A A$ A A A A G GAAAAA A $A \operatorname{A} G A A A A G G A A G G A A G G G G A A G G A A G A A A G G$ G G G GAAGGGGAAGAGACCAGGAGGCCGAGGGGGAGAAGAAAA GACAGGAGCAGGCAAGAAAAAAGAGGGAAAGGGGGAAAAAAG $A G C C G G A G A A G A G G A G A G G G G A G G G A A A G G G G G A G A A A G A A G$ C A A A A A A G GA G A G A G G A A A A G G G G C C G G A A G G A A A A A A G G G G G GAAGGAAGGAAGGAAGGCAGGAGGAGGAAAAGAAAAGAAAA G GAAAGAAAGGGGAGGGAAAGGCAGAAAGGACCAAAGGACAA AAGGAACCAAGAAGAAAAGGCCGGAAAAAAAGAGAGAACACC A A G G A A C A A G A A G GAA $A \operatorname{AGGAA} G G A A G A A G A G A G G B A A A G G G G$ G G G G G A A G A G G G A A G GAACCGGCCCAAAAAAAGGAAAAAAGG AAGGGGCAACAAAGAAGGAGGGAGCAGAAGGAGAGAGAAACC GAGGAGAGACAGAACCAGGGACGACCGAAGAGAAAAGGGGGG GAAGAAGAGGAAGGCAAAAAAGAAGGCCGGGGAAAGGGAAGA G GAAAAAAAAAAAAGGGAGGAAAAAGGGAAGGAAGGAAGGGG A A A A G G GAGGAAACGGGGCCGAAAGGAGAAAAGGAGGAAAAA G G G G G A A G A A G GAA $A \operatorname{G} G A G C C G G A C G A A G C C G G A A A A G G A A G G$ G G A G A G T T G G G GC C G G G G G G C C A A A A C C G G A A A C A G G G G G C A G GAAGAGAGGAAGGAGACGAAAGGAAGAAGCAAGAGACAGAG GAAGGACCGAGGGGGAGGAACCGAAAAACCCAGAGGAAAAGA G G G A G A A G A C A GAA $A \operatorname{G} G A A A A G G A A A A G G G G G G A A A A A A G G A A$ G G G G G G G G G G A A G G C C G A G GAGGGGAAACCAGAACACCAA GA AAAAGGAAGGGGAAGGAGAACAAGGAAAGGAGAGGGAGAGAAA GAGGAAGGAGACGGAAAGGAAAGAGGGGGGAGCCAAGGGGCC AAGGACAGAGGGGGACAAGGCCCCGGGGAAGGGGAAAAAGAA G GAACCAGACGGGAGGGGAAGGAGAGAAGAGAAAACCAGACAA G G A G A G A G G G G G G G G G A G G A A G A G G G C C A A A A G A CA G G G G A A

 GAGAGGGGCAACGGAAGGGGAGGAACGGGGCAGGCCAAGGGG A A GAGGAAACGAAGAGACGGGAAGGACCGGGAGGGGGGGGCC GAGGAGAGAGGAAGAGGAAGAGAAGGGGGGAAAAAGAAGGAA CA $A \operatorname{GA} A G G G G G G A A G G G G G G A G G A A A G G G G G G G G A A C A A A G B$ A A A A T T G G A A TAA $A \operatorname{GGGAAAGAAAAGAGGGGGGAGAGGGGGGG}$ A G GAA A A G A G A A A GAAGGGAAGGGAAAAGGCACAGAAAGACC $C C G A A A A G A A C C G G A A A A G G C C A G A G A A G A A A A A A G G G C C A A$ A A A A GAAACAGGCCAAGAAAAGAAAAGGGGAAACAAGCAAAA G G G G A A A A G G G G A G G G A A A A G G A A G G G G A GAGGGCATA GAC C A ACCCCCCAAGGGGAAGGGAGGCCGGGGAGGGAGCAGAAGAA

 GAAGGAAAAAAAAAAACCCCAAGAGAAGGACAAGAAGAAAGAA CAAAGGCAGGGAGGAACAGGGAGAGAAACAGGACAGAAAGTT $G G C A A A G G G G G A G A G G G A A G G G G A G G G G G G A A C C A G C$
 A ACCCCAAAGAAACAGAAAAAGGGGAGGGAGGGGAGGGGGGG A GAGGGAGAGGGAAGGAACAGGGGAGGGAAAGAAGGGGAATT AA G GAGAAGACAAAGCAAAGAAAAGAAGGACCGGGAGAGAGG A A C A G A A G A G G G G A A A A A A A GAAAGGCCAAAGACGAGGACCA AAAAGGGAGGAGGGAAAAAAAAGGGGGGAACCAAAAGGCCAA AAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGGAAAAGA ATAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCBAGAGAAC

A G G GAA A G G G G GAAAAGGAAGGCCGGGGGGAAAAAAGGGGGG
 A A G G G G G G A A A A A A G GCC G GAA A GAAAAGCCGGAGGGAGAAAA A A G GAGGGGGGGGGGGAAACGACCAGGGAAAAACGGAGAAAA G G G GAA A G G G G GAA A G GAACGAGAAGCGGGAGAAGGAAAACAC AAAAGAGGAAAAGGAAGAAAAAAATAGAGGAAACCGAAAGAA A A A GACCCAGAGAAAGAGCCAGGAAGGGAAAGGGAAAAAAGA CCGGAACCAGGGGACAAAAAAGGGAGAGAGCCGGGGGGGGCC A A G G G G G G A A A A G G A A G G G GAAAAAGGCCAAAAAAAAGAAAAA $C C G G A A A A G G A A A A G G G G G G A A C C A A C C G G A A G G G G G G A A G G$ A A G G G GAA A G G G G GAAGGCCGGCCGGCCGGAAAAGGAACAAA G G A A A A A A G G A A G G G G G G A A G G A A C C G G A A C C A A G G G GAAC C C CAACCGGAACCAAGGAAGGAAAAGGGGGGCCAAGGGGCCGG G GAAGGAAGGCCCCCCGGAAGGGGGGAAAAGAAAAAAAAAGA GAAAAAAGGGCCAAGGCCAAGGAAAAGAGGAGGGAAAAGAAA ACAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A}$ GAAAAGGAAGGAAGGGGGGAAGAAAGAGAAA G GAA $A \operatorname{GAAAAAGGAGGAAGGGCAGGGGAAAAGGGGGAAAAAAA}$ CAATGGAGAAGGGGAAGGGGGGCCAAAAGGAAACCCAGAGBA AACAGGGACCACGGGGGGAAGAAAGGGGGAAGGGGAGGAGGG G GACCCCAGAAAGGGGCAGAAACCGGAACCAAGGAAAGAGAA G GAAGGGGAGAGAAGGAGAAAAGGCAAGAGCACAAAAAAAAA AAGGGGAAACAGAGAGCAGGGAAGACAGAGAGAGAGGACCAA A A A A A A G GAAGGGGGGGGGGAACCGGAAACGAAGGAAAAAAA
 A A A GAAGGCCAGAGCCAAGGTTGGGGGGAGGAAACAAAGGAG
 A A G GAAAAGGAGGGGAGACAAAGGAGAGGGGGAGGAGGGAAA A A A A A GAA A ACCGGGGGGAGGGGAGGAAAAAGGGAAGAAGAA A A G GCCGGAGCCGGAGAATAAAAAGGGAGGGGGGGGGBAAGA A G G GCAA $\mathcal{A} G G A A G G G G G G A A C C G G A A G A A G A A A G A G G G G G G G$ A A G G G GAAAGCCCAGAGGAAAAGGAAAAGGAAGGGAGGGGGA AACAAGGAAGAGGAAACCAGTTAACCAAAGGGAAGGAAGAAA $C \subset G A A A G A A G A A A A A G C C G A A A A G A A G G G G G G G A A A C A G A A A$ $G G A A A A A A A G A G G G G G G A G G C A A A G G G G A A G G A A G A A G A C B G$ A A G GCCGGAGAAGAAGAGAAAAAGGGGGGGGAACAAAAAACC G G G G G GAA $A \operatorname{GAAAAACCAAAGGAAAGGAAAAGGAAAAGAGCTT}$ AAAGAAAAAAAACCCCAGAAAAAAAAGGATAAAAAACC G GAA AAAAAAGGCCGGAAAACCAAACGACCAGGGAGAAAAGGAGAA
 C CA $A \operatorname{GA} A G G A A G G A A A G G A G C A A A G G A A A A G G A C A C G G G G A G$ AAGGAGACAAGACCGGCCGGGGAAGGAAAAACAAGGGGGGAC G GAGCAAGGAGGAAGGAGAAAAAAGGGAAAAAGAAGGGGGAG C CAACCAGGGGGACATGGAGCACACGCCGACAGGAAAAAAAG A A A G A A A A A A A A G GA A G GAAACAGGAGGGGTTGGBAGGAGEG G G G G A A G G A A G A A G G G A GCCACAAAGAAAAAGGGCAGA G GA G A G GAAACAGAGGCAAGAGGGAAAAAAGGGAGCGCGAACAAAA A A A C A A A G G G G GAACCAAGGGGAGAGCCGGACAAAAGAAAGC GACACCAAAGGCAACCAAGGGGAAAGGAGGGAGGAAAAAAGA G GCCGGGGAAAAGGCCGGAAGGAACCCCAAGGAAAAAAGGCAA ACACGGAAAAGACCGGCGAGGACAGGACAAAGGAAGCAAGAA C CAAA $A \operatorname{G} G A A G G A A G G C A G G G G A A A A G G A A G G G G G G G A C C C C$ $G G C C A A G A G G A C G G A G G A A G G G A A A G A G A A G G A A G G G G G G G G$ G GAGAGAAAAAAGGAAGGGAGAAGGAGGGGGGGGAGAAAGGG $A C G A C A G G C A G G A G G A G A G G G G A G A G G A G G A A G G A A G G A G A A$ G G GAAAAGGAGGGGAGAGAGGAAGAAGGTTGGGGCCGGAGAA GAAAGGGGAAGGAAAAGGAAGGAAAGGGGGACAAAGGGAGAA AAGGAAAAAAAAGAAAGAGGGAAGGGAGAAAGGAAAAAGGAA G GAAAGGGCCAAGGACAGAAAGGAGAAAAAGGCCAGAAGGAC AAGGGAGGCAAGGAAGCAAAAAAAAAGAAACCGGGGAAGGGG

A GAAAGAGGGGGAAGGACAACCAGAGAAGGAGGACAAAGGAG $A C G G G G A A A A A G G G A A G A C C G G G G A A G G G G A A G G A C G A G G C A$ AACCGGGACCAAGGAAGAACAAGCAGAAAAGGAAAACCACAC GAGGAAAAAAAAAGGGGGGAAGAACCAAGAAGCCGGAAGAAG
 G G G G G G A G A A G G G G G G G G G A A G A G C A G G A A A A G G G G A A A G A G AACCAGGGAAAAGACCAAGGCAAGCAGAAGGGGGACAGAGGG GAAGAGAAAACCGAAAGGGAAAAGAGCAGGGGGAGBAACCGG G G G G A G A A A A G GAAA A A A G GAAAAAGGGGAAAAAAGAAACCCC G G G G G G G G G G A G C A G G A GAGGGGGAGAGCACCGGCACCAGGG $A C C G C C A A A A G A G A A C G G A G G G C A A A G G C C G G A G A A G G A A A A$ AAAGGACCGGAGGGCAGACCAGGAGGCCAGAAGAGAAGAAGA A A C A G A G G A G G G G G G G CA $\mathcal{A} G A A G G G G A A G G G A G G G G A A G G G G$ A A GAGGGGCCAAAAACGGAGAGGAGAAAACAAGBAGGGAGAA G G G GAA A A G GAGAC G GAGGAAGGGAGGGGGGGCCGGGGAGAA G GAACCAAAAAAGGCGAAAAAGAAGAGGCCAGGAAAGGGCAC AACCGGAGAGGGACAGAAAAAAAAAAGGAAAGAAGGGGGGGG G G A A A G G A G A A A G GACGGAGGAAGGGACAAAAGATAAAGGGG $G G A A A G G G G G A G A G A G G A A G G A G G A G G A A A G G A A A A C C A G A A$ GAAAAAAGAAGGAGAAGGAAGGGGGGAAGGAAGAACGAGAAA G GAACCGGAAGGCCAAAAGGGGCCAGCCGGGGGGCAAAGGCC G G GAAAAGGACCAGGGGGAGAAAAAAGAAAAGGAGAGGGACC GAGAGGGAGAGGGGAAAACCGGAAGGGGAACAAAGGCCAAAA GA $A$ A $A G G G G A G G A A A A G G A A A A G G G G G G A A G A A A A A A C G G G G$ AAAAACAGGGAGACTTGGAATTCCAAGAAGGGAACCCAAGAC G GAA A GAAAAAAGGGGAAGGTTAGAAGGAAGAAGGGAAAAAA A A G GAGGAAAGGAGAGAAAGGGGACCCCGGGGAGAAAGGGAG G GAAAGGGGAGGGAAAAACCAGAAGAGGAAAAGGGGGACAAA G GAAAGAGGGACCCGGGAAGAAAAGAGAGGGAGGCCAAAGAC C C C CAC GAGGAAGGAAAGCCCCAGAAGAGAGAGAGGAGAAAG A A G G GAA $\operatorname{A} A A C C A G G C A C A A G G G G A A A A A A G G G A G G A G G G G G$ AAAGGAAAGGAAAAGGCCGGGGAAAAAGGGCAAAGGAGCCAG AAAGCACAGGGGAAAGAACCAACCGGGAGGGGAGGAAAACCC G G A T T T A G A A GAGGAGGGGGGCAGGAGGGGCAAACCAAAA GA ACGGGAAACCGGAGAGAAGGAAAAAACCGGAACCAAAAAAAA GAGGGGAAAAAGAGAAAGGGGGAAAAAGGGCACCAAAAGGGA G GAGCAGACGCAGAGAGGAGAAAGGGGGAGAACCAGAAGAAG AAAGAAAACCGAGGGGACCAAAGAGGAGGGCAAAAGAAAAGA $A G A G A A G A A G A A G G A G A G G G G A A A A A G G G A G G G A A G A A A G A A$ G G G G G GA GAG G G C C A G A G G A A G A A A GAA A A A A A A C C G G A G G A $G G A A G G A A A C C C G G G G G G G A G A G G A G G G A G G G G G A A A A G A G G$ GAAAAAAGGGGACCGGAGAGCCAAGGAAGGAAGGGAAAAAGG A G G G G G G G G GAGAAGAGGGGGACCAAGAAGGAAGCGAAAAAA AACCAACCAAAAGAAGAGGGAGAAAGAAGGAGCCGGGGAAAG $A G G G G G A G G G A A G A G A G A A G A A G G G A G A G A A C G G G A G A G G G G$ $A G C C G G A A G G G G A G G A A G A T A A G C G G G G A C A A A G A C A G G G C A$ AAGAGAAAGGAAGGGGGGAAAAGGGGGGGACCAGCCAAAGGA G GAGAAAAAAGGAAAAAAAGAGGCAAGAAGAGAGAAAAAAGA A GAA $A \operatorname{GA} A G G A C G A G G G G G G A A C A G G G G G G G A G G A A G G A A G G$ G G G GAGGGAACAGAGGAAAGAGGGGGGGAAGGAAAACCACGA GACCGGAAGGCCCCGGAAGAAACCAAAGAAGAGAGGG
GGGCCAAGAGGGGAGGGGGACCAGAAAGAACAGCACAGAAC G G A A G A C A GAACGGGGAAGGCCGGAAAAGGAAAGGAAAGGCC CAGGAGGGAGGAGGAGGGAGCAGGGAGGAAAGAGAAAAGGAA A A A G G G G A G G G A G A G G A T A A A A G G G GCC G G G G A G A A A A G G G A A GAAGGAGGAAACCGAGGGGGGGAGACCGGGGAACAGGATAG G G GAGGGGCCGGCAAAAAAAACGGCCCCCAGAGAAGGGAAAA
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G G A A A A A A A GAGCAGAGGAAGGGGCCGGAGGAAAAAAAGAGG A GAAAAAGCCAGGGGGGGAAGGAACACAGACCAAAAGGAGAA A A A A GCGGAAGGGGAAAAGGGAGGGGACAAGGAGAGAGAA GA A A CA $\operatorname{A} G A A G G G G A A A A A A G G C C A G G G A A G G G A A G C G C C G G G G$ G GAAGGAGGGAAGGAGAACCAAGGGAAGCCGGCCGGCCAGAAA G A A A G G A A C C A A G G G G G G G G T T A A C G A A A GAA A A A A A C G A A G G GAA $A \operatorname{GAAAAAAAAAAAAAAGGGGAAGGGAGGAGAAACAAAAA}$ $G G C A G G A A G G G G A G A G A A G A A A A G A A A A A A A A A A C C G G G G G G$ C C C C G G A G A G G G A C A G G G G A A G G A A G G G G A A G G A A A A A A C G G $C C G G G A C C G G G G G G A A G A G G G G C C A A G G A A A G G G G G G A A T G A$ AAAAGGCCGAAGGGGCAGGGGGCCGGCAGGGAAAAGGACAAG
 $G G A A A A A A G G A A G G A A G G A A A A A A A A A A G G A A G G G G A A A A G G$ $G G A A A A G G G G C C G G A A T T A A A A A A A A G G A A A A C C G G C C G G G G$ $C \subset A A A A G G A A G G A A A A G G A A A A G G A A A A A G A A G A A G A C G C G G$ G GAACCGGAGCCAAAAGGAACCCCAAAGCAGGCCCCGGAGGG G G GA $\operatorname{G} G C \subset A A A G A A G A G G C C A A G G A A G G A G G G G G G A A A G G C C$ G G G G G GACCAAACCGGGAAAGGAAGAAACCGGAAGGCAAAGA $C C G G A A A A G G A A A A A A G G A C G G A A A A A C A A A G G G G G A G A G A A$ C CAA $A \operatorname{GGGA} \mathrm{~A} C \subset A A A C G G A A G A A A G G G G G G A A A G G G A A A G A G$ A A GAAAAAGGAGGGAAAGCCGAAAAAGGGGGAAAGGAGAAAG CAAAAGAAAAGACCAAGAAACCAGAAAAAAAGGAGAAGAGAA G GAGAGGCGGGGAGAAAGGGGAATAGAAAGAGAAGGCAAAGB A G GAA A G A A $\mathcal{A} A G A A A A G G G G G G G G A G C A A A C C A A G G G A A A B G$ A GAAAGGGGGAGAAGGGACAAAAGGAGGCAGGGGAGAAAATX
 AA $\operatorname{A} G A A G A G A A G A A A A G G A G A A G A G G A A G G G A G G G A A A A A A A$ A A A A A C GAA $\operatorname{G} A \mathrm{~A} A \mathrm{G} G \mathrm{~A} A \mathrm{~A} A C C C G A A G C C G A A G T T A A G A G A G A$ GAACAGAAGGGAAAAACAAGAACAAAGAAGAGAAAAGAAAGG $G G A A A G G G C C A A A A G A A A A G A G A G C C G G G A A G G A A G A A A A A G$ G G G G A G A G G G C A G C G G G G G A G G C A C C G G G G G G A A A G G G G G G G G G G GAA A GAAGGGAGAAGAAGGGGGGAAAACCGGCCAAAAGA
 A A C A A A C C A G A G A G GAGAGGAGCCGGGGGGAAGGGAGGAGGG G G G GCCAGGGAGGAAGGGGGCAGGGGAAAAAAGGAAGGAGAA A G G G G GAACCGAAAGAAAGAAAAAGGCCAAGGGGGGGGGGGG G G G GAGCAAAGAAGGAGGCCAAGGGAAGAAAGAAGAAAAAAA A G G G GAAAACACGAGGAAAAAAAACCGGACGGAGGAGGAAGAA GAGGGAGGAACAAAGACCAAAAGGGAGAAGGGGGAGGGGGTA
 $A G G G A A G G G A A A G G G G A A G A G A G G A A G G G G G G G G G G C C B G A C$ GAGGACGAAAGGGAGGGAAAAGGGAGCAAAAAAAGAAAAAAG A GAC $A \operatorname{A} A G G G G G A A A G G G G A G G G G A C A G G G C C A A A A A A A A G G$ $G G A G A A A C G A A G A G G A C A G G G G G G A A A A G A G G$
 A A GGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGGAA C C G A G A A G G G G A G A G G A A C CA GAG GAGGCCGGGGCCGGGGAA G GCCAAGGAAGGGGAAGGAAGGAGAAAAGGGGCAAGGAGAAA CAAAGAGAGGAAGGACGGGGCCGGGGGAGAGAAAGGGAGAAA C CAAACGGAACAGGAAAAAAGGAAGAGGGGGGACAGCCBAAA G G A A A A G G G G G G A G G G G G G G A A G A A G G G C C G G A A A A G A A G G A A GAAAAAGGACCAAAAAAAAGGAACCAGAGGGCAGGAAAGAA G A A A G G A A G G G G G A A G G G A A G G G A G G C C G G A C A G G G A G G G A A AAAAAGAACCAAAAAAGAGAAGAAGGGGCCAACCAAAAAAGG GAGGGAACGGAACCCCGGGGAAGGAGAAGGAAAAGGATAAAG A A G G G GAA A GAACCGAGGAAGAGACATTCCAGGGCCGGAGCA AAGGAAGGGAGGAAGAAAGAAAGAAAAGAGCAGAAAA GAAAAA $G G A A G G A A A G G A A G G G C A A A A G A G A C G G A G G G A A A A C C B G A A$ AAAAACGAACGGACGGCAGGAAAAAAGGAAAAAAGGGGGGGG

G GAA A A G G GAAAGCGAGAGGAGAAAACCAGGAGGAAAAGGGG
 AAAGGGAGCACCCCGGAGAGAGGGAAGGAGGGCAAGAAGAAA A A GAAACCAGAAGGGGACAAGGAAAAGGCCGGAAGGGGAAGG
 $G C A A G G A A G G G G A A C C G G A G A A G G A A C C G G G G A A G G G G C C G G$ AC GAGGCCGGAAAAAAGGAAAAGGAACCGGGGAAAAAAAAAA $G G A A G G G G A A G G G G G G A A G A G G G G A A A A G A G G G G G G A A G A G C$ GAGGAAGAGGAGGGCCAAAAGGAACCGAGGTTACAGAACGAA $C \subset A A G A A A G G A G G G G G G G A G C C A G G G A A G G A A G G A A A A G A A C$ GAAGTAAGATCCGAGGAGAGCACAACAAGACAAAACGGAAGG A A G G G G G G A A G GCC $C$ G G GAAAGGGGCCAGAAAACCAAGGGGGG AAGGAAGGAACCAAAAAAGACCAGCCAAGGAAGGAAGGGGGG A A A A A A A A GAA $A \operatorname{GGGAAACGGCACCAAAGAGGAGGAGGAAGAA}$ GACCCCAAAAAAAAGGGGAGAAGGAAACGAGACCAGGGGGGG AAAAAAGGAAAACCGGGGGGGAAGAAAAGGAAAGGGAGAGCA A G G G G GAAAACCGAGAAAAGAAAGGGGGAAAAGGCCAAAGEG A A GAGAAAAAAAGGGGAATACCGGGGGGCCGAGGAAAAGGAA $G G G A A A A G A G T A A G G G A A G G G G G G A A A A G G C C A A G G A A A A A A$
 GAAAAAGGCCAAGGGGGGAAAAAACCGGGGAAAAACAGGGGG AACGAGACAGCCAAGGGGCCAGAGCAAGAAGGCCGGACAAAA GAACCCGGAAGAAAAGAAAAAAAACCAAAAAGAGGGBACAAG G G G G G G T T A A G G G G G G G A A A G G G A G G A A A A A G G A A A A A A A A A GAAAAAGGAAA $A A A G A G A G A A A G G G A G G G C A A A G G B A G G G G G G$ A G G G G G GAGGAAAAAAGGAAAAAAGGGGACGGGCAGAAAAAG G GAA A G G G G G G G G GAAACAGAGAGGAAAAAGGAAAAAACCCC G G A A A GAGAGCCGGGGCCGGAAAAAAGGAAGGAGTAAGAGAA AACCCAGGGAGGAACCAAGGAGGGAGCCAAGGGGGGAGAAAA GAACAGAGGGAGGAGGAGGAAACCAAGGGGCCCCAAAAAAGG A A G A A G A T C A G GAGAGCCGGGGGACCAAAAGAGGCCGGAAGA G GAAGGGGGGAGGAGAGGAGAACACCGGGGAAGAGAACAAGG A GAGGGCGGGGAAAGGAGAAAAAAGGACGAACGGAAAAAAAA A A A A A A A A A A G G A A A A A A A GAA A G G G G G C C A A A A A A A A A A G A A G G A G A A G A G G G A G A C A A G G G G G G A G A A G GAAA A C C C C A G G A A G G G G GA G A A C C G G A A A A G A A A A GAGGGCAAAAC G G G G G G G A G
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 G G A A G G G G A A A A G G G A G G T A G A G GCCGAGAAA GAA GAA GAA G $A A C A G G G A A G G A A A A G G G C C G G G G A A A A A G C C A A C C C A G G G G$
$G A T T G G G G G A G G G G C C G A A A A A G G G G G G G G A A G G A G G G G G G G$ G G A A A A A G GAA $A \operatorname{GA} A \operatorname{A} A A G G A A G G A A A A C A G A G G A A A G A G A T$ A G G GAGGGGAAGGAGAAAAGGGAAGAGACCGGGGAAGGAAAA G G G G G G A A G G G GC C G G G GAA $A \operatorname{AGGACAGGGAACGACCGAGGGG}$
 A A A G C C G G G G G A A A $\mathcal{A} A G G G G A A G G G G G G G G G A A G G A G G G G G G$ G GAGGGCGAAAAAAGAACAACCAGGGAAAAGAAAAGGBACAA $G G A A A A G G G G A A G G A G G A G G G G G G A A G A A G G A G G G A G G A G A A$
 G G G GCCAGGGGAGGGAACAAGGGAGGGAGAGGGGAAAAGGTT GAAGACAAGGATGAAGACCGTAGAGGAAGGAAAAAAAAAGAG
 TTAACCCCGGAGAATTAGAAGGCCGGGGAAGGGGCCAACCGG G G G G G GAA A GTTGGAACCAAAAAAAGAAAAAAAAAGAABACC A A A C A G GAAAGAGGGAGAAGAAAGAAGGAAGGTTGGGGGGGA A A A A G A A A G G G GAGGAGAGGAAAAAAAGGAAGAA GAAA GACC AACCGGCCAAGGGGGGGACAAAAAGGACGGCCGGCAAATAGG A A G G A G G A A GAGGAAGTTCCGAGGTAAAGAAAGGAAAAAAAA $G G A A A A A A A A A A G A G G A A A C A A G G G G C C A G G A T T C A A G A G A G$ GAAA A $A \operatorname{G} G A G G G A G A G G G G G A A A A G G G G G G A G G G C C A A A G A A$ A GAGAAGGGGAACCGGCCGAGGGAAAGGAGAGAAAAAAAGCC CAACGAGGAGGGACCCGGAGGAAAAAAAAAAGGGAAAAGGAA
 G G G G A A A A $\mathcal{A} G A A G G G G G G A A G G A A G G A A A A G G A A G G G G C G G G$ A A G A A A A A G GAACCGGAAGGAAGGGAGAAAAAGGGGAGAA GA A G GAA $A$ A $\operatorname{ACA} C A A A A G A A G A A C C G G A G A A A A A A G G G G A A A A C A$ GGCCGAGGAAAGAGAAAAAAAAGGATGAAGGGCAGGGGGGAA A GAAAGGACAGAAAAAAAGGAAAAGGAAGAAGACAACAAAAA C C C A G A A G A G G GACAGAGGGGACCAGAAGGGGAGGGAGAGAA G GAGAAGGACAGAAAAGGAAGGAACCGGCCGAGAAGAAAACC G GAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} G A A A A A G G A A A A A C A G C C G A A A A G G G G A G G G G$ GACCAAGGAAGGGGAAGGAAGGGGGGCCGGGGAAGGAAGGGG A A G G G G G G G G A A G G G G A A G GCCAACC G G C CAA A GAA G G G GAA A A G G G G G G G GCC G G A A A A C CAA A GAAAAC CAAAAAAA G G G GCC C C G G A A G G A A G G A A G G G G A A A A G G G G G G C C A A G G G G G G G G G G A A A A A A G G A A G G G G A A C C G G G G A A A A G GAAAAAAG G CACAAA A A A A A G G A A G G A A A A G G G G G G G G C C T T G G G G A A A A G G G G G G G G AACCAAAAGGAACCAAGGGGCCAACCCCCCAAAAAACCGGGG A A C C A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G G G C C A A A A A A G G G G C C$ C C A A A A A A A A C CAA A A G GAAAAAAAAG GAAAAAAAA G GAGAA A A A A G G A A A A G G G GAA $A \operatorname{GGGGGGGGGGAACCGGAACCAAAAGG}$ A A G G G G G G A A G G A A G G G GC C C C G G G G A A G G A A A A G G C C G G G G G GAAAAAAGGCCGGGGGGGGAAAAGGAAGGGGGGGGGGAAGA GGCCCCAAAAAAAAAAAAGGAAAAGGGGAAAAAAGGA
A A A A A G G GAGAGGGAGAAACAAAAAGAGGCGGAAGAAAAGG C CAAAGGAGGCCAGGGGGAAAAGGGGGAAGACCAACCBAGCA
 A A G GAA A G G GCCGGGACAGAAAGGACAAAAGGAAAACCGGGG
 A GAGGGAAAAAGCAGGAAGGAAGGAGAAAAGGCCGGCAAAGAG C CAAAA $A \operatorname{A} G A G G G G G A G G A G A A A A A G A G A G C G A G G G A A G G G G$ C GCCGAGGGGAACCATCAGAATGGGATTAAAAGGAAAACCGG A A G G G G G G A A G G A G A A G G G G G A G G G A C A A G A A G G C C G G G G G G GAAAGGGGGGGGGCCCAAGGGGAAAAGGAAGGAGGAACAAAG C CAGGGAAACGGAGGAAGACAGAGAAGGGGAAAAGGCCAAAA A A A A A A A A G G A A G G G G A A A A G G C A GAGAGGAGGAAAAAAC G G A A A C G A A A G G G G A A A A A A $\mathcal{A} G G G G G A A A A A A G G G G G G G G A G A A$ A A A A G G G G G G A A G G C CAAAC C G GAAAAAAGGCCGGGGAA G A A A G GAAG $A \operatorname{AA} A G G G G G G C C G G G G G G A A G G A A G G A A A A G G G G A G G A$

AAGGCCTTCCCCAAGAGGAAGGGGGAAAAAAGGGATAAGGGG A A A A A GAA $A \operatorname{GAA} A G G G G G A A A G A A G G C A G A G G A G A A C A G G A A$
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 GAGGGACCGGAGAAAGGGGGAGAGAGCGGAAGCCAGAGAAGG G GAACAGGAAAGGAATGGGGAAGAAGAGGAAGGGAGAAAGCC A A A A C CAAAA $A \operatorname{AGGACAAAACAAGGGAGGAGAGAGGGGGGGGG}$ C CAA $A \operatorname{GAA} \mathrm{~A} C A A A A A A A A G G G G A A G A G A A G A A A G G G G G G A G A$ A GAAGGCCGAAGACCCGGGGAGGGAAAAGGAAAAAAGGAACC G G A A A A G G G G A A A A G G G GAGGGAGAACCAGAAAAAAAA A A A A A C A A A G G G G A G A G G A G C A A G G G G G G G G G A CAAAAAAAA A A G G G G G AAGGGGAACCTTGGCCCCGGGACCAACAGACAAGGAAATAAG
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 C CAGAAGGAACCCCGGAGAAGGAAGACACAGGAGACGAAGAG G G G G A T G G C C G G A G GAGGGAGGGAAAAAGGGGAAAAAA AAAA AAAGCCCCGGAAGGGGCCAGGGAACCGGAAAAGGGGCAGAGG CAGGACAAGGAAAGAGCAGAAGGAAAAACAGGCAGGGAAAAG AACCGGGGGGAGACAAGGAGGAAAAGACGAGGAAGAAAAAAA
 $A C G G G G G G G G G G A A A A G G T A A G G A A A A A G G G G A A A A G A A G A G$ GAGGGGAAAGGAAGGGGGAGAAAAAAGGGAAGGAGAAAAGGG G G G G G G G G A A G GAA A GACAGAGCAGGGAGAAAGGGGCAAACC A GACAGAAAGAAAAGGAAAAAGGGATAAGGACGAGAGAAAAA
 $A G G G A A C A G A G G A C A G G G A A A A G G G A A G A A A A A G A A G G B G A T$ G G G G C A G G G G A A G G C A A C A GAAAAACCGGGAGGGGGGAAA G G G A GACATAAAAGGAACCGGAAAAGGAGAGCAGAAGAGGAAACA AAAGCGGGGGAAAAAAGAAGGACAACGAAGAAGGGGAAAGAC CACCAAGGGGGGGGGGAGCCAGGGGGGAAAGAGGAGGGAGAA GAACGAGACCAAACGGAAGGAAAAGGAAGGCCGGAAGAAGAA A A G G A A G A G GCC G G A G A A G GAGTAGGAAGAAGGACCGAAGAA A A G G G G T A G GAGAAAGAAGGGGAAAGCCAAGGGGAGAAAACC A GAGAA GAGACAAATACCGGGGAAGGATCAACAAAAGGGGCC A A GAGGAGAGGGAAAAGGTAAAGAAGAAAGGGGGGGCAAGAAA G GAAAAAACCGGCACAAGGAAGAAAGGAGGAGAGAAGGAGAG G G G G G G A A A A G A G G A A G G C C G G A A GAGGGGAGAAAA G GAA G G

 G G G A A A G GAGGGAAGGCAGGAAAAAAGGCCAATAGGAACAAA

AAAACCACAGCAGAATGAGAGAATTAACAAAAGAAGGGAAGG A GAA A A G G A GAAGGGGTAAAAGGGCCAGTAACGGGACAAAGG A GAAAAAAGAGGGAACGAAAGACCAAGAGACCAAAGGGAGAG A GAACCAGCAGACAAGGGCAAAGAAAAAAGGGAGGGGGCCCC G GAGCGAAAAAGGACCAACCGGAGGGGGAACAGAGAAAAAGA A A A A G G G G GAGGAAGGGAGGAACCGAGGGGAACAAGTTACAG C C G GCCGAAAAGAAAAAGGAAAGGGGAAAACCGACCGGGGAG A GAAGGGGGGAACAGAGGAAAAGAGGCAAGGGAAAAAATTGA C CAACCGAGGAAAAAAGGAAGGAAAAGGAAAAGAAAGAGGGA AGCCAAGGGAGGGGGGCCCAAGGAGACCAGAGAGCACCGGAG G G GAACAGAAGGAATAAGGGGGAAAAGGGAGGGGGAAGGGGG G G G G G G G G GA G G TAAAAGAAGGAGCAAGACAAGGGGCCAGAT G G G GAGACGGGGAACCAACCAAGAAGAAAAACCCAAAGTATT A A A A A A G GCAGACAAGGAAGGGAGAAAAGAGAAAGGGGAGGG A GAGAA $A G G G A G G A A A A A A C G A C A G G G A A G A A A G A C G G G A G A$ G GAGAAAACAGGCAGACCGACGAGAAGAAAGAGGGGAAAGAAA G GAGCCAAGGTTGGGAGAAAGACCGGGGGGGGCCGGAAAACA A A A A C A A G A G G G A GAAGAAGGATACCAACCGGTTGGAAGGCA $G G G A G A A A G G A A C C A A G A A G G G G G A A A A A A A G A G A A A G A G A A$ G G G A A G A A A C A GAAAAAAGAGACCCCACGACATTGGAAGGAA GAAGCAGAAGCAAGAGAACCAGAGGGAGGGAGCAAGAGGGAG A GCACAGGAAGGGGAGGAGGGCAAAGAAAAAGGGAGGACAAA AAAAGGCCAAGAAGAAACGAAACCGGGGACAGACAAGGAAAA $A G C C A G G G G G A A A G A C G A A G C C G G G G G G G G G G A G A A G A A A G B$ $G G A A G G G G G A C G A G A C A G G A A A C C G G T A G A C C A G A C G G A A A A$ G GAAAAAAGGGGGGGGGGAAAAAGCAAAGAAAGGAACAGGGG CAAAAAAGACAGAGGAGGAAAGGGGGAAGGCCAGAGCGAAGA GAGGACGAAAGAAGACGAAGGCGGAAGGGGAAAAAGAAAGAA A G G G A G A G G G A A A G G G A A G G C A A A GACCAAAAGGGGCC G GAA AA G GAACATTAAAAAAACGGGAAATAGAAAAGAAAAGAAAAA A A G A A A A C CA GACAAAGGGAAAGGAAGGAACCACGBAAGAAA GGCCAAAGAACAACAGAAGGACGGAAGAGAAGCCCAGAAGCC G GCAGAAAGGACAGCCAAAAGGCCGGGAGGGGAAGAGGAGAA G G G G A A G G C A A A G G A G G A A A A A A A A A A A C CAA G GAA G G C C G G $G G C C G G G G G G A G A G G G A A C C G G A A A A G G A A C C A A A C A A C C G A$ G A A A A A A A GGAAAAGCAGAAGACAGGAAGGGGGAAAGAAAAA $C \subset C \subset C G A C G G A A A A A A C C A A G G G G A A A A G G A A A A A A A A A A G G$ G G G GATGAGAAAGGAAAAGGGGGGGAAGGGAAGGCCGAAAAA A GAGGGGGAACCGGGAACAGACGGTAAGGAGGCCGGAAGGAA ACGGGAGAGGAGGGGGAGGAAAAGACGGAGAAGGGAGAAA GA GAAAGGGAATCAAAAAAAAAAAGGGGAAAACCATAAAACCGG A A A A A A G A A A A A A G G GCCCCGGTTGGAACAAAAA GGGGGCGG G GAAAAGGAACGCCAAAAAGGGGGGGGAGAGGAACCAAGATT A A GAGGAAGGGGAAAGGGGAGGAGAAGGGATTGGGAG
AAAGGAAGACCGGAGGGAAGGAGGGGGGAACAGAGAACAAA A GCCAAAGCCGACCAAGGGGAAGGGGAACCCCGGGGGGGGGG GGGAAAGAAAACAGGGAAGAGGAAGGAAAAAAGGAAGGAAA G G GACAAAGGGAAAAGGCCGAGGCCAAAAGGCCGGAAAATTGG AGCGAAGGCAAAAAAAAACCCCAAGGGGAACGGGAACAAATT A A A A A CAGAAA $A$ AAA $A A G G A A C A G A G A G A A G G G G G G G A G A A G G$ G G G A A A G G A A G A G G CAGGAAAAAAGGGGAGGAGAAA GAGAAA $A G C C A A G G G G A G A A C A C C G G G G C C A G A A A G A G G A G G G G A G A A$ GACAGGAAAAGGAAAGCCAAAAAGCCAGAGAGTTAAGGAAGG G G G GCGAAGGGAAGAAAAGGACAAGGGGAGGGAAGAGAAGAA G GAGGCGGCAAGAGGGAGAGCCAAAAGGGGAAAAGGGGAGAG A A G G G A C A G G G G C A A A G G G G A A A A A A C CA A A A A A G G G G A A G G AA $A G A G A C A G G G C C A G G G C A G A A G G G G A A G G A A A A G A A G G G G$ G GAAA A $A \operatorname{A} C A A G G G G G A A G G A A G G G G A A G G G G A A A A G G C C C C$


G G G G A A G G A A G G A A G G G G G G G G G G A A A A G G G GAAAA A GAAAA G GAA A G G G A A A A A A G G A A A A A A G G G GAAAAAAAAATTGGGGAA A A G G A A G G A A G G G GAAAAAAAAAGGGGGGCCAACCTTAAAGGG G GAGAGAAGGGAGACCGGAAGGCCGGAACCAGGAGAGAAAGA AAGAGGCCGAGAACGAAAAAAAGGAAATCCAAGGAAC GAAAC G G A G A G A A C C A G G A G G G GC C A A G G GAGGGGAAGAAAAA GAC C T T A A A G G A A $\mathcal{A} A G G G G G G G G G A G G G A A G G A A C C A A A A A G A A A A$ AAACCCGACAGGGGGAGAAGAGCACAAAAAAAAGGACAAAAA $A \subset A A G G A A G A G G G G A A G C A A G G A A G G A G G G G G G A A A A G G G E A$ GAGAAAGGAGGAAGAACCAAGGGAACGGAGAGCCAGCAAGGG A A G G G GACAGCCGAACGAGAGAGGACGGGGGGGGCACAAAAA C C CA G GCCAAAAGGAAAAAGCCGAAAGGGAAAACGGGGAGAA A A G A A G A G G G A A G G A A A A $\mathcal{A} G A A G G G G A A A A G G G G G G G G A G G G$ GAGGAAGGCCGACCGGGGAGGGAGAACCAAGGAGGAAAGGGC A G G GAAA A A GAAAAAGGAAAAAGGGGAGAAGAACCCCC G GAA CAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGGAACCAGBA C C A GAGGGGAGAAGAGAAAAGGAAAAGGGGAAAAAAAGGGGG G GCCAAGGGAGGGGGGGAAAGGGGGGAAGGGAGAGGAAAAAA AAGGGGAAAAAAAAGAACACAAGGGGGAGGGGGGCACAAGAC
 C C GAGAGAAAAAAGCCAGGAGAAGGGACGGAGAAGAAGAAGG GAAACCAGGGGGGAGAAAGGAGACGAGAGGACAAGGGGAGAA GA $A$ A $\operatorname{G} A \operatorname{A} G C C G G A G C G G A G G G G A G G G G G A C G G A A G G G G A A G G$ G GAGGGGGGGAAGGGGGGACAAAAGAGAAAAAGGGAGACAAA A A A G A A G G A A GGCGGAAAACGGAAAAGGAAGGCCAAAAACAA A GAGGAAAGGACGGGGGAGGGGAAAGAAAACCGGGGGAAAGA C C G GAGAGGGGAAAAAGGTTGGAAAAGGGAAAAGACAA G GAAA AAAAAGCCCCGGAAGAAGGAAGGGGGAAGGAACCAACAAAAG GAGGAGAGGAGAGGGAGGAGAAGGAAAAAAGAAGAGAACAGB $G G C A A A G A G G A A A A G G G G G G A G A A G G A A C A A A G G G G A G A G A A$ A A G G A A G G G G A G A C G G A G G G G G G G A A G G C C G G T T G G A A C C A A AAAAAAGGAAAAGGGAGGAAGGAAGGGGGGGACAAAGAAAAA A GAG $\operatorname{A}$ GAAAAAAAAAGAAGGGGGAGGGGGGGGGGCCGGCCCC A A A A A A G G A G A A G G C A G G G G A G A A A A A A A A G G A G G G G G C C G G
 A A G G A A $\mathcal{A} G G G G G G G A G G G G G G G G G G G G G C A A G C G G G G G A C A A$ AAACAAAGAAGGAAGAAGGAAAAGAACCAAGGCCAAAAAAGA AC GAA A A ACAA A GAGGAAAAGGGGGGGAGACGAAAAGAAGCG A A GACCAGACGAGGACGGACGGGAAGAAGGAGAA GAGAAGAA
 GAGAAAGAAAAAAGTAGGAGGGACCCGGGAGAGGAGGGAABG G G G GCCGGGAAAAAAGGGGGAAAGAAAAGGAAGGGGGGAAAA G G G GAAAAAAAAAGAAAAAAGAAAAGAAAGGAGAGGGGGGCC G G G GAACCGGAAAGAAACAAGAGGAACCGAGAAAGGGGAGAA G G G GAACCGAACCCGGAAGGAGAGGAAAGACCTTAAGGCCAA G G G G G GCC G A A GAA A A GAA A A A G G A A G G G G A A A A A G G G A A G G AAAAGGAGGGAAGACAAGAGCAGGGGGGGGGGGGAAGGGGGG A ATTGGAGAAAAAACCAAAGGGAACCAAAAAAACAAAAAAAA AAAAAACAAGTAGAGAAGAGGAAAAAAAAAGGAAGGAAAAGA G GAGAGGAGGGAGGAAAAAAAAAGGGCAGGGGAAGAGAGAGA G GAGATAGAAAAGAAGAACAAGGGAGGAATAACCAACCBCCC A A GA A G G G G G G GA $A \operatorname{A} A G G G C C G A A G G G G G G G A A A G G C C C A A A A$ C C G G G A A G A G G A G G A A G A G G A G A A A GA G A G G G A G G G A A A A G G G GAAAAAAGCAGAAAAGGAAAACCAAAAGGCCCCGCGACCGG G GAAAGGACAGAAGAGACGGCCGAAGCAAGAAAAAGGAGAAA $A G A C A G G A G G A G G A G C A G G G G A G A G G A A A A A A G G G A A A G G G A$ A G G A A GAA $A \operatorname{GGG} G A A A A G A A G A A A A G G A C A A G G A A G G A A G G A A$ G G G G A A G G G G G GCCA A A A A A A A G G C CAAC A C G A A C C G A G G G G A G G GAAAAAAGGACGAAAAAAAGAAACAAAGGAAAAGAAAAA

AAAAAAAGAGAGAGAGGGAAAGAAAGAAAAGAGGCCAAGAAA G G G G A A G G G A G G G G A A G G G G A G A A $\mathcal{A} G G G G A G A G A A G G A A A G G$ AAGGGAAGCCAAAGGGAAGGAAAAGGGAGAGGAAGGCAAAAG G GAA A A G G G G G G G G G GAAAAAAATTAAAGCCAAGGGGGGGGGG AACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGGGAAAAA A GAACCAACAACAGGAAGGGAAGGAAGAGACACCGAAGGGAG GAAAATGGAAGGGAAGGGGAAGAGAGGGGGGGAGCCCCAGAA AACAGGGGGGGGGAGGAGGGGGGGGGAAAGGGCCAAGAAAAA $A G C A A G G G A G G A G G A A G G G A G G A G G G G G A G G A A C G E A A A G A A$ AAGGAGGGAGAGGGGGAAAAAAAAGGGGGACCAAGACCGGGG
 GATTGGCAAGAAAACAAAGAGAAAAAGGAGAGGGGGAAAAAA A A G G G G G G G G A A A A C C A A A A A A C A G G G G C C G GAACC G G G G T T AAAGGGCCAACCCCAACCGGGGGGAAAAAAGGCAAGGAGACA A G GAAGAAAGGGAAGGCCCCAACCGAAAAGAAAAAAAAGGGA
 GAAAAAAGGGAAGGGGCAAGGAAGACGGGGGGGAAAACAGBC G G G G G G G G A A A G G A A A A G G G G G G G A A G G G A G A A T G G A G G G A A $G G A A A G A G G G A G G A A A G G A A A A G G G A G A A G A G G C C C A A A C A A$ A A G GAACCAGGGAGAAAGGAGAAAAATAGGAACCGGAAAAGC ACAACCGGAAAAAAAAAACAGGGGGAGCAGAGGGAAGGGGGC AACCGGCAAAACGGAGGGAAAAGGGAAAGAGGGGAAAAGGAG A A G G G A G A G G A A G G G G A G G A A C G G G G G G G A C C A G G A G G C C G G A A A G A A G G GAGGCCAGAAGAAAAGATAAAAAAAAACGAAGAG CA $A G G G A A A G A G A A A A G C C G G A A G G A A G G A A A G C G G G A A A A C C$ GCCACCGGGGAGAGGGGGAAAGAAGGGGCCAAAAGAAAGAAG A G G G G G G G A A A A G A A A G G C A G G G A A GAC G G G G G GAA G G A G G G GACCGCAAAGGGAAAAGGAAAAGGAAAAAGAGAGAGCAAGAG A A G G A A G A A A G A G A A G G G G G G G G G G G G G A A C C A A A G C A G G G G ACAACAAGCCAGGAAGAAAAAAAAAAGGGGAAAAAAGAGGGG T TA GAAAAAAAACAAAAAAAAAGGAAGGAGGAGAAAGGAAGE $C C G A G G A G A A G G G A G A T T A A A C G A A G A G G G G G G A G G G G A G G G$ $C \subset G G A A C C A A A A C C G G A G G A C C A A G G G A G G A A G G G G G G G G G A$ C CACAAGAAAGGCAGAATAGGGGGGGGGAAAAGGAAGGAGGA GACAGGAACCAAGAAAGGGGGGAAGGAAGGGGGGAAAAAGAA GAAACCAAAGCCGACAGAAGAGCCAGGGCCAAGGCCGAGGAA AC GAGGAGGAAGCAAAGATAGAAAAGAAGAGGAAAGGGCAAA AACCGGGGAAGGAAGGGGAAGGAGGGAGAAAAAAAGGAAAAG
 G G A A A A G G G G A G G G A A G G G G G G C C T T A A A A GAAAA A G A A A A $G$ GAGGAAAAAAGGCAAACCAAGAACCAAGAAAAGGGGGGABAG CA $\operatorname{G} G A G A G A A G A G A A A A G G A G A G A A C A G C A A G C G G A A G A G A G$ G GAACCGGAAGGGGCAGAGGACAAAAACAGCCCCAAGAAAAG GA $\mathrm{A} G \mathrm{G} G \mathrm{~T} A \mathrm{~A} C \mathrm{G} G A \mathrm{~T} A C \mathrm{C} G A C A A G G G G G G A A A A G G G G A$
A A A G G G G A A A A A A G C A GAGGGGGGAGGGGAAAGGGAGCAA G
 A A G G A G G A A G G G G A A A G GAAAAGGGGGGGAACAAAA AAA A A A A G GAAGAGAGAAGCAAGGGGGAGACCAGGGAGAGGGGCCAACC A A A A A A T TAAGAAAGGGGAGAAGAAAAGACGGAGAGCAAGAA
 A A A A A GAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{~A}$ GAAAAGAGAAGGAGAGGGAAAAAGACAA G GAGCCGGGGAACAGGGGGAAAGGAAAGCCCCAAAGGGAAAA A A A A G A A A A G A A G G G G A A G G G A G G G G G G A A A G A G G G G C A G A A G GCCGGGAAGGAGGGGGAGGGGCAGGAAAAACAAAAAAGGGA $A G G A A G A G A G G G G G A G A A G A G G A G A A G G A A A A A A G G G A A G C G$
 A A GAAACCAGAAGGCCAGAAGGAAGGGGGGAGAGACGGGGGG C C A A A A G G A A C A A A GAGGGGAAAAGGGGGAAAGAAA AAAA GA $A C A C C C G G A G G G A T G G A A G G A G A A G G G G A A G G G G G G G G G G A A$

G G G G G GAAAGGGAGAGAAGGCCGGAAAAACAAGAAGAGAAAA GAAAAGGAGGAAGGCCGGAAGAAGAGGGAGAGAAAGAAAAGG A GACCCAGGACAAGGAAGGGAAGGCCAAGGGGCCGAAAGGGG A G G GAGAAAAGAGGAAGGAAGGCCGGGGGGCCGGGGAAAAAG AC G GAGGGGGACGGAATTAAAAGGGGGGCCGGAAGGAAGGGG G G G G A A A A C C C C G G G G G G G G G G G G G G G G G G G A A G C C A A G G G G $A C C C G G G A G G C C G G A A A G A G A C A G A G C A A A G G G G G A G A C C C C$ AGGGAGAGACGAACAAAAAAGGGGAAACAGAGGGAGGGAGGG A A A A C G G G A A A A GAGGGAAGAGGGGAGGACAAAAGAAACCGG GAGGGAAGCCCCAGGGAGCAAAGAAGGGAAGGAAAGGGGGAG G GAGCAGGACGGGGAGGGGGACGGCCAAACAAGGAGAAACGG G G G GAGGAACGGAAAGACGGAGAAGGAAACAGGGACGGGGGA G G A G G A A G G G G GCC G G A A A GAA A C A A G G G G G G G G G G A A G G G G GAGGGGAAGAGAGGAAAAAAAAGAAGAGAAAGACGGAGGGGG A GGAAAACAGAAGACCGAAAAAAAACAGAAGAGAAGAGAGGG $C \subset A A A A A G A G A A C C A A G A A G G G G G A A A A G G G G G G G G G G G G A G$ A G G GAGAGTTGGAGACGGGAAGGACCAAGAAGAGAAAACAGB G G A A G G G G G G A A G A A A A A G A G G G G A G C C A G A G T A A A G G G G G G $A G A G G C A A G G G G A G G G C C G G A A G G A A A G C A G G G A A C C C G G G G$ G G G G A A A C A G C A G G A A A G G GAA A GAGAGAAGGAAA G G GA GA A G GAAAAGGAAAAAAGAGGGGGAAGGGAAGGAAGGAAAAGAAA G GAAAAGGAAAAGGGGCCGGGGGGAAAAGGGGAAGGCAAACA G G G G A A A A A A A A A A G G G GCCAAGGCCGGAAAAAGAGAAAAAA GAACGGGGAGGGCAGGAGCAGACAAAGAAGAGAAGGCCAAAT $A C A G A G A A G G G G A A A A G A A A A A A G A G G A G G A A A A C C G G G G G G$ GGAGCACCAAAACCAAAAGGAAGGCCGGCCAGAAAAAGAAAC G G G GAAAGAAGGAAAAACGGAGAAAAGGCCCCAAGAAAGGAC GAGAGGACAAAGAGGGGGAGAGAGAGACGCAAAAAAGGGGAG CCGGAAAAAAGGAAGAAAGAAGGGCCAAGGGGAAGAAAAGGA T TAA A A A A A A A AC GCGGGGGCAGGAAGACCAGAAAAGGGGGG GAGGCAGACCGAAACCAAGAACAAAAAAGGGGGGAGGGAAGAG G G G G G GAACCAAGAGGAAAAAAAAGACAAGGGGGAGAGAAAA $C G C C A G C A A A A G G A G A G A A A G G C C A G G G A A A A A A G A A A C A C A$
 AAGAGGAAGACCACGACCCGAAAAGGGGAAAACCAAGAGAAA G G GAAAAAGGGGGGGGAACCCCAAAAAGAGAGAGAAAAGAGG G GAA A G G GAGAGGGAAGGTTGGGGAACCAAAAGAGGCAGACC GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGGGCCACAAAA C C G G A A G G A A A A A A G G G A G G G G C G A G A G C A T T A A A A A A A C G G GACCAAAGGGGAGGGGAAGGGGAGGGGGCCGGAAAAGAAAGG A G A A A A A G A G A G G G A A G G G GAAAAGGGGGGCCGGAACAAAAA C CAA AGCCCCGGAAAACCGAGGGGGGAAGGGCAAGGAAAGGG AAGGAAGGAGGGCCGGAGAGAAGAGGGACCAAGGAGCCGGGG G GAAAAAAAAGGGGCCAAGGGGAAAAAACCGGAACAAAAAGG GAAAAGGGCAAGGACACACCAAGAAAGGAAGGGGGAAACCAC C C A A A A A A G G A A A A G G A A G G G G A A A A G GAGGGAAGACC GAAC AAGGAAGGGGAACCAGAGACCCGGGGAAAAGGAAAAGAAAGAG AAGGCCGGAACCGGGGAAAACCGGGGAGGCAGAAGACAAAAA A A A A A A G G G GAGAGAAAGGAGAGGGAGGAAAAGGATCCAAAA G G G GCCAACCGGGAGGAAAGGAGGAGAAAAGGGGGAGAGGAC A G A A A A A A A A G A G A A GCAACAAACGGAGAAATCAAAAAGGCC G G GAGGAGCCCAGGGGCCGAAAGGGGGGCCAAAAGGCCGGGG
 AAAAGAGAGGAGGGGGGGAAAAAAAAGGGAGGGGGGGAAAAA G G G GAAAGCCAAAACCAAACAAACCCGGCCGAAGAAAAAAGG G G A A A A G G A A C CCCAAAGGAAGAGGACAAAGGAAGAAAAGGG
 GAAAGAACAGGGAGGAAAAGGGACGGGGGACCAGGACCAAGA AAAAGGAAGGGGGGCGCAGAGAGGAAAAGGGGAGAAGGAGAA

AACCAGGGAAAAAAAAGGAAGGAAGACACCGGGAAAGGCCBA
 G G A A A A G G A GAGAAAAGAGAGAAGCAGAAGAAAAGAAAACAG G G G GAATTAGAGGAGGAAACAACCCCGGAGCCAGCAGGAAGG G GAAGAGGGGCCAAGGAAAAGGAAGGAAAAAAAAGGAA G GAAA G G G GAACCAAGGGGGGAAAAGGGGCCAAAACCGGAAAAGGAA AA G G G GAAAATTGGAAAAAAAAAACCAAGGGGAAAACAAAGB AAAAGGGGGGGGGGCCGGAAAAGGAAGGAAGGGGAACCGGGG A A G G A A A A G G A A C C G G G G G GAAAAGGAACCAAAAAATXAA G $\mathrm{C} A$ G GAAAAGGGGGGGGAAGGGGAACCAACCGGAAGGGGCCCCGG G G G G G GAAAACCGGGGAAAAAAGGGGCCGGGGGGGGGAAAAA A A G G A A A A G G A A G G G G A A A A G GCC G G A A C CAAAA A G G G C C G G G GAA A G G G A A G GAAAA $A \operatorname{A} G A A G G G G A A A A A A A A A A G G A A A A A A$ $G G A A A A T T A A G G A A G G A A G G A A A A G G A A A A G G A A A A A A G G A A$ AAGGGGGGGGAACCGGAAAAAAAAGGAAAAAAGGGGAAAAGG G G G G G G G G G G A A G G A A G GAAAA A GAAC C G GAAAAAAAAACCC C C G GCCGGAAAAGGGGTTGGAAAAAAGGGGCCGGAACCGGGG G G A A C C A A G G G G G G G G A A C C A A A A G G G G G G C C G G G G G G C C G G A A A A A A A A G GAACCGGGGAAGGAAAAGGGGAAAAAAGGAA G G $A$ G G G G C C G G A A G G G G A A $\mathcal{A} G G G G G A A A A G G C C G G G B A A G G G G G G$ GGGGCCGGAAGGAAGGAAGGAAAACCAAAACCAAAAGGAAGG A A C C G G G GCCGGAACCGGGGGGAAAAGGCCCCCCAAGGCAAA G G A A A A A A A A A A A A G G G G A A A A G GAA G GAAAA A G G GAA G G G G A A A A A A T T G G G G C G A A GAAAAA A GAAAAAGGGGCA GAGAAA G G A A A A G G A A A A G G A A G G A A C G G G G G G G A A G GAAAA A G G G G G A A GAGGGGGAGACCGAGAGAGGGGGGCCGGAAGGAGAAGAGGAG G G G GAAAGGAGAGACCAGAGGAGAGAGAAGAGGGGGAAAGAA A G G A G GACAA A A GGGCAAAAAAGAGGGAAAGGAAGAGGGAAAA G G G G G GCCA GCAA $\mathcal{C} A A A G G A A G G A A G G G G G G C C G G G A G G A C B G$ GAAAAAAAAGCCAGGGAAAAGGTTGGGGGGGGAAGGCCAGGG AAAAAACCGGAAAACCCCGGAACCGGGGAAAAGGGAAAGAAA GAAGACGGGAAAGGGGGGGAGGGGCCAAGAGAGAGAAAGAAA A A C A A A G G GAGGAGAAAAGGGGGGGGAAAAAAAGCCAAAACC T T G G G G A A GA G A A A G GCC G G A CAAAAGGCCAAAACC GAAGCC G G G G G G G A C C A G G A A G A A A GAAA GAA TA A CAAAAGCCCAGGAA G G G GCCGGAGGGAGGGAGAGAACAGACCCAAGAAAGGGGAGG CCGAAGAACAGGGGAAGGCAAAAAAAAGGGCCAAAAAAAAAA ACAGGGAAGGAAAACCGGGAGGGAGGAAGGAAAAGAGAGAAA

 C C G GCAGACCAAAAGGAAGGAAGGGGGGAATTGGGGAAGACA GACCAAAACCAAAAAAAAAACAAACCGAGGAGGAGGAAAAGA GACCAAGGAAAGGGAGAAGGGGCCCCGGCCGGAAAAGAAAGA GAACGAACCACAAAAGGGCCCCGAGGCAAGAACCGGG
GAAGGAGAGACCAGAGAGAAGAGGAGGAGGGAAAAGGAAA G
 $A C C A C A G A A A G G G G G G A C A A G G G G C C A G A G G G G G A A G B C A G G$ GAGAAGAAGAGCGGAAGGAAAGAACAGGAGAAAGBAAACCCC A A A A A A G G A A G G G G G G G G G A G G A GAGACGGAGGGAAAAAGAA C C G GCGCCGGGGAAAAAAGGGGACGGAAGGGGGGAAGGAAGG GAGGGGAAGGAAAAGGGAGGCCGGAACCAGGGCAAGGAAACC
 C C G G G A A G G C G G C C A G G G C C G G A A A A GA G A A C G A G G G A G G A G GAGGACAAAAGGAAGGAAAAGAGGAAGGGGGAAAAGAGBAAA AAGGAAGGAAAATTAAAAAAAAAGCAAAAAGGGGAAAACAAG GACCGGGGAAAACCGGGAGGGGAAGGGGCCATAACCAAAACC
 A G G G G GC C A G A A A CAA A GAGGAGAAGGGAGGAGGAGGGAAAA GAGGGCGGGAGAAAAAAGAGGGAAAAAAAGCCAAAAAAAAAA

ACCCCCGGAGAAGGAGGGAAACAGGGGGCCAAAAAAAAAGAA A GAAAAAAGAAGCAGGACAGAAGGAGAGGGAGGGAAGGGAGG G G G GAAAAAAAGAGCGGGGGAGGGGGAAGGGAGAAGAAGCGA A GATAGAAAAAAGGAAAAGAAAAAAAAAAAAAAAGGAGAAGG GAAGGAAAGGGGAAGGAAGGCCAAAAGGGGAAAAAGGAAAAA A A G G G G G G A A G G G G A A A A T T G G A A A A G G G G A A G A A A C A G A G A GAGGAGCCGGGAGAGGAACCAAGGGGAAAGCCGGCCAAAAAA $G G A A G A A G G G A A C C A A G G G G G G G G G G A A G A A A G A G G G G G G G A$ G G G G G A G G G G G G G A G G G A A A A C G G G G A G A G G G G G A G A A A G G A G G G GAA A A GAGGACAGAAGGGAAGACGGAACAAGGGGGAAAA G GAGAGGGAAAGGGAGAGGGAAAAAGAAGGCCAAGGAGAAGG A G G G A G A A G G A G G G A A A A G A A G G G A GAGGACAGAAACAAA G G G G A A G G T T GAA $A C C G G G A A A A A G G G G A G C C A A G G A G A A A G A$ AGAGCACAGGAGGACACCGGAAAAAAAAGGAAAACCGGAGAA C C G GCCGGGGAAGGGGGGAGCCAGGAGGAAGGCCCCAAAACC ACAGGGGGAAGGAAGGAAGGGAAAGAAAAGAAA GCCGGCCCC A G GACCAGAGACCCGGGGGGTAAACCAAGGAAGGGGGGCAAA G G A G G A G G A G G G G A C A A A G G G G A G G A G G G A A G A C C A A G A G G G A A A GCCGAGGGGGGCCGGGAGGGGCCGGCAGAACGAGGAAAA C C G G C C A A C C A A A C A A A A TAAA A GACAA GA GA GA G GA G C G G G G GAAAGAGATAAACGAGGGGAGGGGGAGGGGGAGAAAAGAAT G GAGAGGGAAAGAGGGGGAGAAGAGGCACAAAAGAGAAGACC AAAGAAAAAAAAAGCCGGAAAAAAAAAAGGGAGGGAGAAACA G G G G A A G G G G C C G A G G G G A GA G C A A GACA GACA A A A G G G G A A GA $A$ A $A G A G G G G G A A G G T A G A A G G A A A A G A G A G A A A A G A T T G A$ A A A A G G G G A A T TAA A C G GCAGAAGGGAACCGGGGGGTTAAGA CAAAAAAAGAAAGGAGAAGGGAAAAAGGAGAAAAAAAA GAAA $A G G G A A A G G G G G C C G G G G A G A A G G G G G G G G G G A A G A G A A C B G$ GAGGGGAAAGGCAGAAAGGGCAGGAGAGGGGGAAAAAAAGTT AAAGAGGGAAGGAAGGCCAAGGCCCCGGAGGAGAAGAGAAGG GACCGGCCAGAGCCAAGGAACCAGGGAGAGAAGGCCGGAGAG G G GAGAAGAGCCGCGGAGCCAAGGGGGAGGGAGGCAAGGACC $C \subset A A C G G G G G A A A C G G G G G G A G G G A A G G G G C A G G A A G G G G G A$ GAAAGGAAGGAACCGACCGGAGAGGGAAGAGGAAAAAAAAAC C C G G G A A A A A A A G G C G A G A A A A A A A GAA G GAAAAAA A G GAAA A CAAAAAGGAAACCAGGGGGGAAAAAGGGGGGGGGGGCAGAAA A G G G G G A A G G G GAGAGAGGGAGGCGGGGAAGGCCGGCAAAAA G GAAAAAGGAAAGGAAGGAGAGAGACGAAGGGGGCAGEAGGA $A C A G G A G A G G A A G A G G C C A G G A G A C C G G A G C C G G A A G G A A G G$ A G G A A A A A A A A G G G GAACAAAAAAAAAACCAAAGCCGBCAAA AAGGAGGAAAGAAAAGCCGGAGAAAAAAAGGGCGGGAACCAA A A A A G A G G A A A A G GAGCCTAAAGAAGGGGAGAGGAACA GAAA G G G GAA G GAAAAAAAAGACCAAGAGAGGAAGGGAAAGAAACC $C \subset A A G G G G G G G G A A C C G G A A A G A A G G G G G A A C C C G G G G A G G A$ A A G A G G G G G G G G A A A A A A $\mathcal{A} G G G A A A G G A A C B C X A A G G G G G G G G$ A A A A A GA G GAA $A \operatorname{G} \operatorname{A} A A A G A T T G G A G A G A A A A G A A A G G A G A A G G$ GGAGGAACAAAGCCGAAAAAGAAGACACAGACAAGGAAGAGA G GAGCAAAGGAAAGGGGGGGGAGAAACCGGAAAGGAGGAGAA AA G GAAAAGAAAAGAAAAAAGGACAAGGGGGGGGAACACAGA
 A G G GAACCGGAAGAGAAAAGAGAACGAGGGAAGGGGAACCTT A A GAAAGGAAGGGAAGAAGGAAAAGGAGCAGACCGAAGAABG A G G GCCGGAAAAAGGGGGCCGGGAGGGAAGGGAAAGAAAGGA AAAGAAAGGGCAGGAAGGGGAAAGCAGGGGAAGGGGGAGAAA
 $G G A A A G C C A A G G G G A A G G G G G G G G A A G A A A A A A A G G A A A A A G$ G G G A A G G G G GCCAAAGCCGGGAAGGACAGGAGAAAAAA GA GA
 G GAAAAAAAAGGGGAAAAGGCCAAGGCCAGCCAAGGCCCCAG
 GAGGTTAGGGAAAAGGGGAAAAACAAAAGGAGAACAACAGAG G G G G G A A A A A A C A G GAA A G G GAGGAAAAGGAGAAGGAGAAAA G G G GAA A A G GAAAACCGGGGAAAAAAAAGGGGCCGGGGBAAA G GAAAGCCAAGAAAGAAAGAAAAGGGCCGAGAAAGGAACAAA G G GACA $A \operatorname{A} A G G G G G G G G G A G G A A A C C G C G G G G A A G G A G A A G A$ GAGGGGAACCGGGAAACGAAGGGAAGGAAGGGCAAAAAAAGA AAAAAGCACAGGGAAAAGAGGAGGGGAAAAGGGAGGAGAGAA ACGAGGAAAAAAAACCAAGGGGAAAAAAAAGGCCCCTTAAGG AACCAAGGAAGGAAAAGGAAAAAAGGGGAAAAGAAAGGAGGA GACAGAGAAGAGAGGGAAAAGAAAGAGAGGAAAAGGAATTCC ACAGAGAACAACCCAGCCAGCGGGGAACAGAAGAGAAGAGCA C GAAAGGGGACCCCGGAACAGGAAAAAAAAGGAGGGGAGGGG A G G G A G A A A G G A A G G G G G A A A A $\mathcal{A} G G G G G A A G G G G C A A A G G G G$ G G G GCCAAGGAAGGAAGAAAGGGGAAGGAGGCATACAGAAGG AAAGAAAACCACGGAGGGAAGGGGCCAACCAAGGGGAGAGAA A GAA $A \operatorname{GAAA} A A G G A G G C C A A A A A A G G G G A A C A G G G G G G A A G G$ T TAACAAAAAAAGGAAAAGGCAGAAAGGCCGGAAAGGGCCAG GGGAGAAGCCCCAAGGAAGGGACCGGACAAAAGGACAAACAG G G A A A G A G C C G A A G G A G G G G G G G A C C G G G G G G A A G G G G C A A A G G G G G A G A A A G A C C G G A A C C G G G G G G A A G G G G A A G G G G G G A A G GCCAA $C$ C $\operatorname{CA} A A A A A A G A A G G G G G G G G A A G G A A G G A A G G G G G G$ $G G A A T T A A G G A A C C G G A A G G C C G G G G C C G G G G G G G B A A G G G G$ A A A A G GCCGGAAAAGGAAGGAAGGGGGGAACCAAGAAAAAAA G G A A G G G G G G A A G G G G A A G G C C G G C C G G G G G G G G A A A A A A G G AAGGAACCAAAACCGGAAAAAAGGCCAAAAGGGGAAAAGGGG AAAAAAGGAAGGCCGGAAAAGGGGGGGGGGGGAA$G G A A A G G G G$ A A G G G G G G G G G G A A A A G GAAAAAA A $A \operatorname{A} G G C C A A G G A A G G A G A A$ G G A A C C G G G A T T C C GAAAGGGGGAAAGGAGGGAGAAAA G GA G $G G A A A A G G A A A C A A A A A A G G G G A A A G G A C C A A A A A A G G G G G G$ GAAGAAGGAGAAGGCCAAGGCAGGAAGAGGAAGAAGGGEGAA GAAAGGACGAGAAGAAATACAGGCGAAACAAGGGGACAGAAA G GAACCGATAGGGGGGGAGAGAAAAACCGAGGAAGGCAAGAG G GAGAAAGGAGGAGAGAAAAAAAAAGAGGAAGGGGAGAAAAA $A G G G G G A G G A A A G A G G C C G A G G G G G A A A A A A G A A G A A A G G A C$ $G G G G G A C G A A G G A A A A G G A G A G A G A G A A G G G G G G G G G G A G A G$ G GAAGAAGGAAAAGGGACGGCCAAAGAAAGCCGAGCAGAGAG G GAAA A G GAA $A \operatorname{Ag} \operatorname{A} G A A A A A A A A G G G G A A G A G G A G A G A A A G G G$ G G G G A GCCAGGGAAGAAGGGGGGGCACCGGAGAGAGGAGGAA GAAAGGCAAACCGGAAAACCAAAGGCGGAGAAGGAGAGAAAG GAGGGGAAAAGGCCACCCGAGAGAAAAAACGAAGGGAACAAA A A C C A A G G A A A A G G A A A A G GCCAACAGGGGAAAAAAGG G GAA G G G GAACCAGGAGGGGAAAGGGCCGACAGAAGGAAGCCAAAA A A A A G G G G G A G G A G C C A GAGGAAGGGGGGGAAGGAGA
$A G G A G G G G G A G A G C C G G G G A A G G G G G G G G G G A G G G A A G G G G$
 G G G G G G G G A C G A C C C C A A G A G G G G A G G A C C G G G G G G G A A A A G A G GACCAACGGAAGAAAAGGGAGAAGGGGGCCAGCAAAGGGA GAGGGAGGGAGGGACCAGAAAGGAGGAAAAAAAAAAGACAGG
 A A C C A A A A A A A A G GAGGGGGAAAAAAAGAAAGAGGGGGTAGG $G G A A A A G G C C A A A A G G A A G G G G G A A A A G G A A A A C A G C A G A G G$ G G A A A A C C A G G A A A G G G A G G A G A A A G G C G G G G A G A G G G G A A A GAGGCAAAGAGAGGAAAAACCCGGGGAGAAAAAACCAAAGAC $A \subset A A G G G G A A A A G G A G C C A G C A G G G A A G A G A G A G A A G G G G C C$ GAGGAAAAAATTAAAGGGAAAGTTAAGGGGACGGGGGGGGGG
 G GAGGAAGAGGGAAAAGGGAAGAAAGGAAGCAAGGAAAACAA $A C G G A A C C A A G G A G A G A G A G C C A A A A G A A A A A G G G G C C G G G G$

G G A A G A A A G G A A A A A GAGAGAAGGGGAGAGAGCAGGTTACGG G G G G G G A G A G G A A A C A G A C A A G G G G GAAAAAAGGGGAA GAAG G $A C G G A C A A A G G A A A A A G G A A G G A G A A T A G G G G A T G A G A G A A G$ A GAGGGGAAAGAACGGAAAAAAAAAAGGGGAGAAAAAAAAGG AAAAGGAAAAGGAAAAGGGAGGGACACCAGGGAACACAGAAA G GAACCGGGGAAAAGGAAGGGGGGGGGGAAAAGGCCGGAAAA AA G GAAGGGGAAGGAAAACCCCGGAAGGAAAAAAGGGBAAAA AAAAAAGGAACCGGGGAAGGAAAAGGCCAAGGAAAAGACCAC A A A A A A G G G G G G G G A A G G G G G A G G G G A A A G A A A A A A G G A G A A A A G GAACCGGGGGGAGGGGGGAAAGGAAAAAAGGAGCCAAGA G G GAGGGGAAGGAAAAGGGGGAAAAGGGCCAGAAGGAGGAGA
 G GAGGGGGGGAAAAGGAGAGCGAGCCAAGGAGAAAGAGAGAA $G G A G A A A G A G A G A G G A G A A G A A G G G G A G C A A G G G G A A A G A A A$ G GCCGAGAAGCAGGAAGAGAAAGGAAAGAAGAGGAGAAAAAA A A A A G GAA A A ACATCCGGGGGGCAGAGGGGAAAAAAAAAAAA GACAGGAGCAACCAAAGGAAAAGGAAGGGGAAGGGAGACAAG CA $\mathrm{A} A \mathrm{~A}$ G G G G G A A GACCAGGAGGCCCCAAGGGGGAAAAAAA G G A A A A A A A A GACCGGAGAAGAGAAAAAGGAAAAAACCGGGAAA C C A A A A A A G G A G GA G GAGCCGGAGGAAAAGAACAA G GA G GAAA G G G GAGAGGGAAAAAAAAGAGGCCAGGAAGGGAGGGAAAACC
 T TACAGAAAACAAAAAAGGAAGCAGACAAGGGGGGGBACBAA G GAGGGGGAGAAGGAGGGAAGAAGCCGAAGGAA GAGAAGGGG A A A A C C G A G A G A A G GAGGAAACCCAAACAAGGGGGAGAGACA A G G GAA A G A GAGAGAAGGAAAAGGAGAAAACCGGCCAGAAAA A G G GAACCGGAAGAAGAAGAAAAAACGAGACCAGAGAGACAG GAGAAAAGAGAAAAAAAGCCGGGGAAGAAGAACCCACACAAA AAAGAGAAAACCAAACAAGGAACCGGCCGGAACAGGGGGGGG AAGGAGCCACAAGGCAAAGGAAGGGAGGAGGGAGAAGGAGAG G G G A A G A A A A G GAA A A GAAA A G G G G G C CA G G GAGGGCAAAA G GAAGGAAGGAGGGGGGAAAAGGAGAGCCGAAGGAAGAAGAAG A A G GAGCAAACAAGAAAAGGGGAAAAAAGGAAAAGGGGAACA GAAAAAAAGGAAATAAGGAACCCCAAAGGAGAGAAAGAGGGA AAAGGGGAGAAGCGAGCCAGAAAAGGAAAACACCBAAGCAGG $G G C C A G A A C A A A A A A A G G A A A A G G G G A A G A A A T T A A A A A A A A$ AAGGGAAGAGGGGAGAAGAGAGGGGGCCAAAGCCGAAAAAAA AAAAGGACGGAGACGGGACAGAAAGGAGAAAATTAACCCC GA A A C C A A A A G G A G G A G A GAATCCCCGAAGGAGGAAAATTGGAG A G A A A GAAAAAAAAGGAACCGAGGGAAGAGAAAA GAAAAACA G G GACAAGGGGAGGAGGAAGCCAGGGGAACGAAGAGAAAAAA A A A A A A G G G A A G A A G G A A A A A A A ACCAAGGAAAAAACAACAA CAGGAAGGGAGGAAGAACGAAGAAGGCCAGAAAAGGAAAAAG G G G G G G G G G G A A C C A A GACCAGAGAACCGGAAAACCCAAAAA $G G C C A G G A A A A A G G G A A A A C G G G G G G G A C C G A A A A A A A G A A G$ A A A G A GAA $A \operatorname{A} A G G G G A C G G A A C A A A A A A G A G A A C C A G A A G G C C$ A A G G G G G G A T A GA $A$ A A $A G G G A A C A G A G A G G G G A G G A A A G A G C A$ G G G GCCGAAAGGAAGGGGGGAAGAGAAAAAGAAAAACACAAA
 A A G GCCGGGGAACCCCAGGAGAAAAGGGAGGAAGAAAAGGGG A A A A A A G G G GCCAAAAAA GAACAAGGGGGGAAGGGAGGAGAGG G GAAAAAAGGAAAAAAAAAGCAAAGGCCAAAAGGGGAGACGA C A A A A A A A A G G A C C A C A A A A A A A A G G G G G G A A G G A A C C G G G G A AAACCGGGAAGAAGGAGAGAAGAGGGAAGAGGGGAAAAAGG G GAGAA $A \operatorname{A} A G G G A G A T A A G A A C A G C A G G G G G G A A A A G G A A G A$ GAGGGGAAGGACAAACGGGAGGGGGGACAAAAGGAGAAATAA G G G A A G A G A A A A A A A A A A GAGGAGCAAAGGCCAAAGCGAGAA G GAAGGGGCCAAAGACAGAAAAGGGGAAGGGGAAGGGGAAAA AAGGGGAAAAAATTAAAAAGAGAAGGAGGAGGAAGGAGAAGG

AAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGGAGAGAAA A A GA $\operatorname{A} G A A G G A A A A A G G A A A A A A A A C G G A A A A G G G G G B A A A A$ A A GAGGGGAAAAAGAGAGGAAAAGAAAGAGGGAAAGGGAAAAA $G G C C A A A A A A G G G G A A A A A T G G G G G A G G A G A A G G A A A A G A G G$ GAAAGGGGAAGGGGAAACGGAAAAAAGGCCGGAGGGAAAACC C C T T G G A A A G A G A A A A A T G A G G G G A A G G G G A A G G A C G G G G G G G GCCGGAGAAGGCAAACCGGAAGAGAAAACGGGGGGCCGGGG AAGAAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGAAAAAG $G G A C A A A A A G G G A A A A A G G A G A A A G A G G G G C A A A G G A A A A G G$ G G G G G GAA A GAACCAGAAGAGGAGGGCCAGAAAGGAGGAAGG A A G GAAAAGGAAAGGAGGGGAAGGGGACCCAGAAGGAAAACC A A A A C C G G A A A A G G G GAAGGGGGGCCAAGGAAAAAAGAAAGG A ACCAAAAAAAAAAAACCCCGGGGCCGGCAAAAAAAGGGGAA $C \subset C A G G G G G G A G G G G G A A G A G G A A A A A G A A A G G G A A C C G G G G$ G GAAGGGGGGAAGAAGGGAAAAAAAGAAGGAAACGAGGGGGG G G G G G G G G A A A A A A A A A A G G G G GAAAGAGAACCAAGCC GAA G A GAGCAGGGGAGCAAGGAAAAAGGAACCAGAAAGAGGACCAG A GACAAAGGAAAAAAGACAGGAACGAAAGGAGAAGGCCAA GA AAAACCAAAAGGGGAGAGGGGGAAAAAAGGAAGGGGGACCAA A A G G G A A A GAA $A$ A A A G A A A A CAGAAGGAAGAGAGAGGAAAA G G GAAAACCCCAACCGGAAGGAAGGACAAAAAACAGGGGAAAA AACCGGGGAAAAAAGGAAGACACCGGACAAAAGGGGGGAAGG A A A A G G G G A A G A A C C C G GCCGGGGAAGGAAGGGGAGCCGGGG A G GACCAACAAGAGGAGGCAAAAAGGAACCCCGGAGAAAAAA

 G G GAAGCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGGG ACGGAGAAGGAACCAGAAAGAACCCCGAGGAAAGCCCCAACA GAAAGGCAGAAAAAGGGAAGGGAGAGAAGGGGAAAAACAGAA $G G A A G G A G A G G G A A A A G A A A C A G G G G G A G G A A G G A G A A A A G B$
 AAGGAAGAAAAAGGCCGGGAGGAAAAAAAAGAAGGGAGAGAG A G G G A G G G A G G G G A A G G G A A G G G G GAA $A \operatorname{GA} A G G A A A A A G A G A A$ G G G G G G G G G G A A A A G A A A C C A G G A A G GAA G C CA A GAAA A C G G G GCCGGAGGAAGGGCGAGGGGGAAAGAACCGGGAGGAGAGGG C C A G A A G A A A GAGGGGAGGAGGAAGGCAAAAAAAGGGAAAGG AGGGAAAAAACCCCCCGGACAACCAAAGAAAAGGAAAAAAAG A GAGGGGGGAAGAAAAAAGAAAAGGAGGTTAAAGAAGGAGGG

 A A A A A ACCCCACCCAAAACCCCGGGGAGAAAAAAGAGGAGAA A A A A G GCCAGGGAACCAGGGGGGAAGGGGGAGAGGGCAAAAA C C GAGAAAAAACACAAAAAGAAAAGACCAAACCAGGAAAAGA GA $A \operatorname{GA} A G A G G A A G G C C G G A A A A G G G G G A G A A A A A A G G$
GACGGACAGAAGGAACGAAAGGGCCAAACGGGGGGCAAAGG AACCGGCCGGAAAACCAGGGAGGGAAGAGGAGAAAAAAGGGG G GCC G G A A A A A A A A A G A G GAGGGGGAGGAGGAGGCCAAAA GA A GAGGGGAAAGGACGGAAAGGAGAGGAAGGGAAAAGAAAAAA A G G G G G G G G G G GAAAAAGGGGAAAACAAAAAAAGGGGCCGGCC C C G G A A C C G G G G T T G G G G G GAAAAAAAAGGGGGGCCAAACAA G G G G A A A A A A G GAA $A \operatorname{GGG} \operatorname{GAAAGAGAGAAAAAAGGCCAACAAA}$ A A A A A A $A$ A $A G G G G G A G G G G G G G G G A G G G G G A A G G A G G G A G A G$
 A GAGAGAAGAGGAAGAAGGAAGACAGAGCCGGAAGGGGAAAA AAAGAGGAAAAAAAGAAAGAAGAGAAAAACCCAGAGAAAGGG A GAA $A \operatorname{GG} \operatorname{G} A A A C C G G G G G G G G A A C C C C G G G G G G A G G G G B A A A G$
 A G G A A GA GAAA $A \operatorname{A} G \mathrm{G} G A A A G G G A A A G G A A C C G G G G A A A G A G A A$ A GCCAAAAAGAGGGAAAGAAGGGAAAAAGGGACAAAAGAGAA

GACCAGGGGGGAGAGAAGAAAAAACCAAGGAAAGCAAGAGAG G G A A A A G A A A A A A G A ACCAGAAGGAAGGCCGGAACCAAAGAC A G GAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACCGA
 $C C G A G A A A G G G G G A A A A A G A G C A G G A G A A A G G C A A G A G G G G G$ C C G G G A G G A A C A A A A G G A G A A G G A G G A GAAA A G G G G G GAA A A A A G G A A C G A G G C A G G G G G G G G G G G G A G G A G G G C A A G G G A A G G G G G G G G G A A A A G G G G G G A A G G A A A A A A A A GA GAA G GA G G A A A A A G G A G G G G A A A A C G G GA GAA T T G GAAG GAGAAA GACAC G G G GAAGATTGACCGAATGGAAAGGAAACCGAAAGAAGAAAAGG A A G G G G A A G GCCGGGGGGGAGGGGAGCCAAAAGACCAACAAG
 C C G A A A G GCA C G G G G G GCCAACCGGGGAAGGGGAAAAAAAAAA A A G G A A G A A A G G A A G G A G G A G G G G C C A C A A G G A T GAC C G A A G
 G GAA A GACAGGAAGAAGGGGAAAAGGCGCCGGAAGGAAGAAG
 AAAAGGAAACGAGGAAAAAGGGACAAAAAGGGAAGGAABAAG GAGGAGGGAGCAGAGGCACCAAAAGGGGAAGGTTACAAGGGG GAAA A GAGGAAGAAAGGGGGAAGGAAAAAAAGAACCAGAAAA G GCAGGAGGACCAAGGGGAAGGAAGGGGGAGAGACCATGAGA AGCCGACAAGAAACAGGAGGAAGGAAAGGAACAAAAGGAAGA GACCAGGGGGAAAAAAGGCCAAAAGAGGAAGAGACAAGGGGA $G G C C C A A G A A C A G A A G A G G G C A G G A A G G C C G G A G G G C A G G G G$ A G A G G G A A A A G A G G A A A G G A G A A G G G A A G A G G A G G G G G A A G G A GAAAAGGGGGGGAAAGGCCAAAGAAGGAAGGGACCGACAAG
 $A G A G A A C C A G G G A G A G G G G G G G A G G G G G G G G A G G A G C C A A A G$ G G G GCCGGGGAAGGGGAAAAGGGAAAGAGGGGGGAAAAACAC GGAAGGAAGGCCGAAGAACCAACCGGGGAAAAGGAAAACCAA C C A A C CAA $A \operatorname{GGG} \operatorname{GAAAACCGGCCGGGGAACCAAAAAAGGAGAA}$ G G G GAA A GAAAGCCGGAACCAGGAAAGGGGACAAGGCCGGAA G GAGGGAAAGAGAAACAAAAGGGGGGAAAGACAAAAGGAAGG G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAGGAGAAGAG G GAGAGGGAAGAAGGAGGAAAATTGGAAAAGGAGGGGAAAAG GAGGAAAAGGCCGGAAGACAGAAGTTAGAAAAAAGGGGAAAA $C \subset C \subset A A G A G G A C A G G G A A G G A A A A G G C A G G C C A A C C C C G G G G$ G GAAAAGGAGGAGAAGCCAGAGAGAAAAGGGGAGAAAAGAAA G G G G G A G G G G A G A A A A A A A $A \operatorname{GGGA} A G G C C G G C C G G G A G A G A G$
 GAGGAAAGGGGGAAAAAAAAGGAAAAGGAAAAAGGGGACCAC A G A A A G A A A A C C A A G G A A G G A A A A A A A A G GAGCC G GA G G A A G $A C C A C C A A G G A A C A A G A A A G A C G G G G A G A G C C A A A G G G A G G G$ A A A A A A G G A C A G G GA GAAA A ACAAACAGGGCCAAAGGGAGAA

 $A C G A A G A G G G A A G G A G A A G G C C G G A A A G G G G A G G G A G G A A A A$ GAGGAAGGAGGAAAAACAAGGAAAGGAAAGGAGAAAGGAGAA
 A A C C A A G A G G G GC C G G A G G G G A A A G G G G C C G G G G C C G G G G C C

 A A G G A A G G A G G G A G G G G C G G G G A G T A G G A A A A G G A A C C A A G A G G G G GAAAAAGGAAGGGAAAAGGGAGAAGAAAGGAACAAAAG GAACGACCAGGGAACCAGGGAGGGGGCCGAGAAGAGAGAAGG G GAGCCGAAGAGAAAGAAGGACGACCGGGGAAGGAAAAGAGG GAGGAGCCGGAGGGCCGGGGAACCGAAGGGTTAAAACCBGAA A A A G A A A G G G A A G G G G G G G G A A A GAGACAAGGAAAAAA A A A A G


A A G G G G GAAGGAGGAGAAGGAAAAAAGAGGCCGACAGGAGAA A G G GACAGCCCAAAGAGAAGACACGAAAAGGAGAAGGGGGGG GACCAAAGACGGGGGAAGGAAAAAGGGAGGGGGGAAGGACAG G G G G G GAA A A A G GA G GCAAAACAGAGGGGGGGAGACGAGACC $C C G A A G G G G G A A A G C C A G A G G G G A A G G A A A A A A A G G C A A G A C$ GAGGT TAAAGGGAGGGACGGGAGGAGGAGGAAAGGACAAAAA GAAAAAAAGGAAAAGGACGAGGCACCCCCCGGAAAGGGAAAG GAGGGGGGGAGAACGGAGAAAAAAAGGAGGAAAGCAAGAGGA A G G G A G G A A G G A A A A G G G G A GAGGAGGAAAAAAACCAACAAA $C C A A A A A A G G G G G G G G G G A A A A G A G A A A A A G G C C C C G G A A A A$ G G G GAGAAAAAGCAGGGGAAGGCAAACAAAAGAAAGCAGAAG $A G C A G A A G A A G A G A G G G G G G A A G G G A G A A A A A A A G G G G A G A A$ A G G A A A $\mathcal{A} G G G G G A T G A G G G G G G G G A A C C A A G G A G A A G A A A G G$ GAAAAAGGAGGGAAAAAAGGCGTTAAAAAAGGAAGGGGGGGG A A T TCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAGG AAAAGGGGAAAAAAAAGGGGAACCAAAAAAAAAAAAGGAAGG G GAACCAAAAAAAAAAAAGGAAGGAACCAAGGGGAAGGAAAA C CAACCGGCCAAAAAGCAGAGAAAAAGGAAGGGGAAGACAAC A A A A A A G G G GAA A A G GAGCCGGCCAGGGGGAAAACAGGGGGG A A A A A A G G G A G G C C A A G G A A A A A A A A A A G GAA G G G A C C G G A A A AACAAAAGGAAGGGGAACCGAAAGGAAGGGGGGAAGGAAAA G G G GAA A G A A G GAAGGGGCCAAAAAAGGAAGGAACCCCAAAA G GAA A GAA $A \operatorname{AGGGGGGGAGAAAAAAGAGAAGGAGGGGAAGAAA}$ CAAAAAGAGGAAGACAAAGAAAGGAGAGGGGGAAAGGGAAAG G GAGACGGGGAACCGGAAAAGGCCACAACCGAGAAGAGABAG
 GAGAGGAAGAGGAGCAGGATAGGGGGAGGAAGGGAGGCGGGG

 GAGAGAAGAGGGGGAGGGCCAAAACCAAAGAAGGGAGGAGCC AACCGGGAAGCCGGATAGAAGAGGAGCAGGGGGGGACAACAG AAGAGAGGCAGGACGGGAGAGGGGAGGGAGAGCGGGACAGGA A G GAGGAACAGGAAGGAAGGGGGGCCAAAAGAAAGGAGACAA CACCGGAAGGGGGAAACACCGAGGAAGGAAGGGGAAAAAAAA A A A A G A G A G G A A G A A A A A G G G G G GCCAGCAGGAGGGAAACAA

 AAGGAAAAAAAAGGAAGGAAAAAAAAAAAAAACCGGAAAAAA C C A A A A $\mathcal{A} G G G G G G G A A A A A A G G C C G G G G G G G G G G G G A A A A A A$ C CAAAAGGCCGGCCAAGGCCAAAAAACCGGAAAAGGGGAAAA A A G G A A T T A A A ACCCCCCAAGGGGGGAACCGGGGGGCCGGGG C C A A A A G G G G G A A A A A A GAGGGAACCGGAACCGACAGAGAGG G GAAAGAGGGGAAAAAAAAAGACCGAGGAACCGAAACCAGCC $A G T T A A G G A A G G G G G A A G G A G G A A G A G G G G A A G A A G A$
 G G G G G G G G CCCCAAAAAAGAAGAGGGAGGAGGGGATAAAAAA C C G G G G G G A A A A A G G G G A C C A G A G G G A A C G G G A G G G A A C A A G GACAGGCCAAAAGGGGGAGGAAGGGAAAGAACAGACGAGGGG A ACCGGGGAAAAGGAAGGAAGGCCGGAAGGGGGGAAGAAAAA A A G G A A G G A A G G G G A A G G A A G G G G G G A A A A A A A A $\mathcal{A} G G G G G A A$ A A G G G G G G A A C C G GAA A GAAAAGGAAGGAAAAGGCCGAAAG G G G G G G G G G G GAACCAAAAAAGGGGCCAAAATAGAACACGAAA G G G A A A G G G G G A G A C C G A A G A A A A A A A A GAGGAA G G C CA GA C A A A G G G G G GAGAAGAACAAAGAGAAAGGAAGGAGAAAAAAAA $G G C C C G A A G G A A A A G G G G G G G G G G A A G G A A C C G A G G A A A A G G$ G G G G G A A G G GAA A GCCAAACAGACGGCCAACCAAGGGGAAGBG AACCGAGGAAAAGGGAAAGGGGAAGGCCGGAAAAGGGAAAAG GGCCAAAGAAAAGAGGACAACCAGGGAAGGAAGAAAAGA G GA $G G G G G G G A A A A A G G G G G G G A A G G G G A A A A G G G G A G A A A G G G G$

A A A ACCAATTAACCGGATCCGGGGAAAAAAAACAGGAAGGGG A A A G A C A A A A A GAA $A \operatorname{A} A G G G G A G C A C C G G A A G G T T C C G A A A A A$ $A G C C A A G A G A A C A G A G A G G A G G A G C C G A A A G G A A C C G B A A G G$ G G G GAA $A \operatorname{GAA}$ A GAAAGGGGGCCGGAAAGAAAGACAAAAAAGG GGACCCTAGGAAAGGGGAAACCGAGGCATAGGGGGGCAGAGG G G A A A A A A G G G GA $A \operatorname{G} G A G G G G G G A G A A G A G A A G G A A G A A G A G$ AC G G G GCC C G G GAGGAAAGGGGCAAGAGAGAAGGGAAAAAAG G GAAGGGGAGAGCAGGCCAGAGAACCACGGGAGGAAAAAAAA A G G GCCGGAAGGGGGACCAACCAGGGGAAAAACCAACCAAGB G G G GAAGGAGCAGGGGCAATGGGGGAGGCAACGAGAAGAGAA AAGGAACCAACAGAAGCCGGGGAGAAAAGAGAGACAAGAACC GACCAAAAGAAAAGCAAAAAGAGGGGAAGGAAGGAAGGGGGG A A G G G G A A G G A A G G A A $\mathcal{A} G G G G G A A G G G G G G G G A A G G G A A A A A$ AAAGAGGAAAAAGGAACCGGAAGAAAAAAAAACCAAAAAAGG G G G GAACCAAAAGGAGAAAAAAGGAAAAAAAATTAGCAAGAG
 AAAGAACCGAAAGGAAGGACCCAAAAGGGGAAGGGGABAAGA G G A A A A A A A A A A G GCAAGCCAAGACAAAAGGGCAAAAAAGGG G G GAAAAGACGGAGAGGGAAGAGAGAGAGACCGGAAGGAGGG
 G GACTTAGAGAGGACCAAAGGGAAGGAAAAGAGGAGCCAGGG G G G G A A A A G G G G A A A A G G G G G G GAAAGGCACGCCAAGAACCC CAGGAAAAAGAAGGCCAAGGAAGGCCGGAAAAGGGGAAGGCC G G A G G G G G A A A G A A G G G G A A A A C C G A C C G GCC G GC G G G G G C A G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A G G A A G G G G G G G A
 AA $A \operatorname{GGGA} A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G G A A C A$ G G G G G G A A G G A A G G C A G G A A G G C A A G A G G G G G G A C C G G A A A $G$ GAAGGAGAGGAAAAAGGACCGGCCAGAGAGAGACAGGGCCAG GGGAGACCGGAGGAAAAGAAAAGGAAAAGGAAGGAACCAAGAG G G A A A A A A A A C C G G A A G GAAGGGGGGCCGGAACCAAGAAAAA AAAAAACCGGAAGGAAAACCGGCCCCCCAAAAGGAAGGGGAA G GAACCAAGGAAGGAAGGGGGGCCGGCCAAGGGGCCGAAAGG A A G G G G G G G G A G G A G G C C T T A G G A G G C A A A A G A G G G G A GAA $\mathcal{A}$ C G G G G G G A C G C A A C A A G G G A G G G G G G C C G G CA $\mathcal{A} G G G G G A A A A$
 AA GAGAAGAGAGGAGAACAGAGTAGAGGGGAAAAAAGGGGAA AAAAGGCCAAGGAGAAGGGGGGAGAGAAAAAACCGAAAAGGB G G GAA A C C A C G G G G A A G G A A A A A G G G G A G G G G A A A A G G A A G G G GAAA A GAA $A \operatorname{A} G A A A A A G G C C A C G A A C A C G G G G A G G G G G C A G G$ G GAAAAGGGGCCAGGGAAAGCCCCAGAAAAAACCAAAAAGAA GA $\operatorname{G} G A A G G G G A G C A G A A G A G G A A C A G A A A G G G A A G G G G A G A G$ G GAACCAGAAAAAAAAGGGGAAAAGGAAGAAGAAAAGAAGAG GAGGGGGAACGAGGACGGGGAAAACAAAGGAAAGGGAAGGAG G G G A A A G G GAAAAGCCAAAAAGAAGGAAAAAAAAGACA GGGG
 G GAGGAGAAGCCAAAGGGAGGGGAGGAGAAAGAGGGAAAA GA G GAACAAAGGGGAACCAAAGAGCAAACAGAAGAGGAAGAGAC ACGAACAAGGACAGCCGGATGGAGAGAGAGGAGAAGAGAGGA G GAA $A \operatorname{GGG} \operatorname{GAAA} \mathrm{~A} A \mathrm{~A} A A G A A A G A C A G A G A A G A A G G G G A A G G A A$ G G G G G A G A A A G GAAGGGGGGAAACCCGAGGAAGGAAGAAAAA AAAGAAAGAGAAAAAAAAAAAGGGAGAAAAAGAACCGGGGAA
 G G G G G G GAAACCAAAAGGAGATAAAGAAGGAAAAGAGGACGG G GCCGGGGAGGGGGAAAACCAAGGGGAGAACCGGAAAAGAGA G GAAGAAGAGGACCAAAAAGCCGAGAAAGAAACAAAAAAGGA G G G GCCAAAAGGGGAGAAAACCAACCAAAAGGAAGGAAAAGA A A G G A A G G A A G G G G G A TAA A C CAA G G GAAA A A GA A A G G G GAA C $C G G G A A A A A A G G G G A A A A A A A G A A G A C C A A A G A G G A A A G G A A$

GAAAAAGACAAAGAAAAGAAAGAAGGCAAGGAGGGAAGAGAG G G A A A A A A GAG GAA $A \operatorname{GAAACCCAAAAAGAGAACGGAAGAAAGG}$ A GACAAAAGGAGCCAAGAGACAAGAAAAGAGAAAAGGAAAGG G GAGGGAAGGAGGAGAGGAAGGGGAAAAGAAAGGCAAAGGAG G GAAAAAGGAACGGCCAGGAAGAAGGAAGAAGGGCAAGAAAA
 G G A A A A A G G GCAG GACAGAAGGAAGAAAGGCAAGAAGAAAAG A G G G G A A A A A A A G GAA A GAGAAAACCGGAAGGAAAGGAGGGG G G G G A A A A $\mathcal{A} G G G A A A A A A A G G G G G A A A A A A G G G G G G T A C C B G$ G GAGGGAAGGGGGGAAAAGGAAGGGGGGAGCCGGCCCAGAAG A A A A G G G G G GAA $A \operatorname{G} G A A A A A A G G A A A A A C G G C C A A G G G G G G G G$
 C CAGAGAACAGGAAGAAGAAAACCAAAAAAAAGGAAAAAAAC A A TA T GAAAGAACAGGGGAAGGAAGAAGAGAGAAAACAAGAG G G GCCCGGCAAGAAAACCAACCAAGGAGGGGAAGCCCAGABA G GAA A G GAGGCCAAGGGGGGGGGGAGGAGGAAAAGGAAAAGA
 A A A A G G G G GAAAGGCACCGGAAGGCCAAGACCGAGGGGGGGG GGGGAGAAAACCCGCACAAGGGAGGGAAAAAAAAAAGGAAAG A G G GCACCAAGAGAAGCCAAAAAACAACAAAAAGATAAATMG AAGAAAGAAAAAGAGGGAAGAGGAGAGGAGCAGAAGAAGGAA CAAAGGGGAAAACCGGCCAAGAAAGGGCAAAGGGAGAAAAGG
 A A A A G A G G G G G G C A GAA A A A T T C CAAAAAAGGCC GAAAAGAA G GACGGCCGGGGGGGGAACCAGCCGGGGCCGGAAAAGGAGAC G G TAAA A $A \operatorname{G} G A A G G G A G A G G G G A A A A G G C C G G G G C A G A B A A A$
 C C G G A A G GCC G G A A G G G G C C G G G G T T G G C C G G A A C C G G A A G G A A TAAAAAGAGACAAGGGAAAAAGAGAGGAAAAAAAGGAGAA T TAA A A A GAGGAAGAAGGCGAGAAGGGGAGGAAGAAAAAGAA G GAAAAAAGAAGAGAGACAGGGGGGCAGAAGGGGAAGAGGGG G G G GAA A A A A G GAA A ACCGAGGGGGGGAAGGAGAGGAAAAGA A G T T G GAA $A \operatorname{GA} A A C C G G G C C C A G A G G G G A G G G G G G G A A A A G G$ G G G G G G A A G G A A A A G G G G G G G G G G A A A A G GAA $A$ G GAAAAAA A A
 G G A A G GC C A A G GAAGGAACCAAAGGGAAAAAACCGBAAAAAA G GAATTGGTTAAAAAAAAAAAAAAGGAAGGCCAAGGAATTAA A A GAAA A GAGAGGGGGCCGGGGGGAAGAGGAAAGGGGGAGAA A A GACCAAGGGGAAAACCAAGGAGAGAGAACAGAAGGGGGCC GACCAAAAAAGGCCAAGGCACCGGGGAAAAGGCACCGGAAGA AAAAGGGGGGAGGAAAGGGGAGGAAGAGGGGGAAAGAAGACA AAGGGGAAAACCGAGGAAAGAAACAACACAGGAAAACCGGAA G GAGACAGAGGGGGGGAAGAGGAAGGGGCAAAAAAAGGAAGA A A G G G GCCGAGGAAAAGGCCCCACCAAAGAAAAAGGG
GCAGAAGGGACCAAGAGCCGGAAGGAACCAACCCCCAGCAG A A G G A A G A GAA A A A GACCAGGGGGCAAACCAAAAAAGGAAGG A G G A A T A A A A G G G A A G G A A A G G A A G G G G G GAAAA A A C CAAA A G GAGAGGGGGGGAGGGAGGGGGAAGAAAGAGGGGAAAAAGAA CAAGGGAAAAGGAAGAGAATGGAGACAGAAGGCCGGCCACAG A ACCACAAAAAAAACCAAAAGGAAGGGGGAGGCAAGAACAAA G G A A A A G A A G A A A G G G A A A G G G G A G G A A C CAAA $A$ A T G G G G G G A A A A A GAA A A G G G G GCGAGGCCAGGGAAAAAAGAGAAAAGAA A A G GAAGGCCAAAGAGGGGAAAAGCCGGAAAAGGAACCCCGG G G G G A A G A C C A G G G G G G G A A A A A A A A A A C CAA $\operatorname{CAGGGGGCCGG}$ G G G A G A A G GAA $A \operatorname{A} A C A G A A G A A A G A A G G A A A G G G G G G G A G C A$ CAAAAAGACCCCGGGGAGGGGGAAGGGAGGGAAAGAAGAGGG CAAGGGAAGAAACCAAAAAGAGAAGGAGAAAGAGAAGGAAAA
 G G G G GAACAGAGAAGGTTGAAGGGAGAAAACCCGAAAAGGAG

A G G G A G G A A C A G G G G G G G A A GAGGAGGGGAGGGAGGGAAAAA A GAGAACACCAAGGGGGAGGAAGGGGGGAAAAAAGAAACCBG $G G A A T T G G G G G G G G G G A A G G G G A A G G G G A A G G A A A A A A C C A A$ GGCCAAAAGGGGAAAACCAAGGGGGGAAGGGGAAGGAGAAGG
 A A G GAACCAAGGGGCCAAAAAAAAGGAAAAGGAAGGGGAAAA T TAA A G G G A A A A A A A G G G G G G G G G A A G A G G G G G G A A C CAAA A GGAAAAGGAGCCAAGGAAAAAACCCACCAAGGGGAAGGCATT A GAAATAACCAACCAGAGGGAAAAGGAAGGGGGAAAAAAAAA AAGGGAAGGGAAGGAAGGAAGGGGGGGGAAGGAACAAGACAA G GAA $A \operatorname{GAA} A A A A A A A G A G G G A A G G G A A A A A G G G G G A G G A A A A$
 A A G GAGAGGGAGGGACAAGGAGAGGGAAGGCAAAGGCCAGAG GACAGAGAGGGGGGGGGGGCGGGAAGAGGAACGCCCAAAGAA G GAACCAAAAAGAGGGCCGAAAGGACCAAAGAGAGAAAGGAG
 GAGAGAAAGGAAGAGAAAAGAAAGAGGAAGAGAATTCAGAGG G GAGAAAAAAAACCCAAGAAAGAAGAAACCACAAACAGAAGA $G G A A G G A A A A A G A G G G A A G G A C A G C C G A G A A A A A A A G G G G G G$ G G G G G GCCAAGGAACCGGGAAGGAAAAAACAAA GACGGGGGG GAAACCAAGACCGGGGGGGGAAGGGGAAGGGGGGTAAAAAAA A A GAGGAAAACAAAGAGGGAACAGAGAGTTGGGAAAAAGGCC AA $A G A A A A G A A G A A C C A A G A G G G G G A G G A A G G A A A G C A G A A A$ A G G G G G GAGGCCAAAGAAGAGGAAGAGGGAGAGGGGAAAAAA G GAAGGAAGGCAAAGGCAAAAAAAAAGAAAAAAGGAAGGGGC G G G G G G A A C C G A A A GAGAGGGGGGATTAAAAGGGAGAAAAGA $A G C C G G G G G A A G A G G G A A G G G G A G G G A G C A A G G A C A C C G G G G$ C CAAAAGGAAAAAAGGAAGGAAAAAAGGAAGGAAAAAAAACC A A G GAAGGCCAAGGAAGGCCACGGGGGAAGGGAAGGGGAAAA G G A A A A A A A A ACGAGGAAAAGGAGGAGGCCCCAGAAGGCCAG A A A A A A G A G G G A G G G GCACCGGAAAGAGCCAGAGAAAA G GAG AGAAGGGAAAAGCCCCGGGGAACCAAACCAACCCGGAACCTA
 $G G C C A G G A G G A A A A G G G G G G A A G G C C G G G G G G A A G G A A G A G A$ GAGGGGGGAAGGGAGAAACCGGCCAAGAGGGGGGGAGATXAA C C G G A A A A C C A G GA G G G G C A G G G G A A G G C C A A A G G A G G A A G A AAGAAAAAATAGGGAGAAGGCCGGAAAGGAGGAGGAAC G GAAA GAAAGGGGACGGAAAGAGGGGGACCAGAAGAAAAGGGGAAGA G GAA A G G G A C A GAA A G GAGAGGGGGGAAGGAAAAGAGAAAAA C CAA $A \operatorname{GAAAA} \mathrm{~A}$ A G A GAAGCAAGGAACGAGAGAGAAAAAAA GA G G G GAAGAAACCAACCAGAAGGAGGAAGGGAAGGGAGAAGAG G G G G G GCCAGAAAGGAAAGGACAAGGGAACAGGGGGGGCCAA G G G GAAAAAGGGGGAAAAGGAAGGAGGGGGAAGGAAGGACAA $C \subset A G A G G A G G A A G G A G G A A A G A G G G A G G G A G A A A G G G A A A G A$ G G G GAA $A \operatorname{GA} A G G C C G G A A A A G G A A G G G G G C A G G G A G A G A G A C$ G GCCGGGGGGAGACGAATGAAACCAAAGGAGGGAAGGGACAG G GAGGGGGGGCCAAAGGAAGAGGGAAAGAAGGAAAACAGGAC AAAGGGCCAGGAGGAGGAAAGAAGACAGAAAAAAAACGAGGA
 G GAGAGACGGAAAGGAGGAGGGAAGGAAACGAAAAGGAAAAG G GCCAAAAGGGGAAAAAGAAGGGGAACCAAGGAGAGAGAGAC C G G GAAACACAAACAACAGAGGGGGAAAAAAAAAGGGGAAAC AAAAAACCACAGGGAACCGAAAAGCCGGGAAAGGAGAGAACA AAGAAAGGAAACAGGAAGGAGGGAAAGGGAAAACACAAAAGG GGCCAGCCAAAGAAGAGAGGGAAAAAAAAAAACCAACAAAAA C C G G G G G G G GCACACA $\mathcal{A} A C C G G G G G A A G G A G G G G G G A G G G A G$ AACCAACAAAGGAAAAGGAAAAAAGGAAAGCAGAGGGGCCGG CACCAAAGAGGGAGGGGAGGAAAGAGAGGACCAAACAGAAGA $G G A A G G G G G G G G A A A A A G T T G A A A A A G G A G G G G G A A A G A A A A$

G GCAAGGGGGAAGAACAAGGAAGGAAAAGGAAAAGGAGGCGG GACCAAGGAAGGGGGGGGCAAGGAAGAGGAAAAGAGAAGACA $A G C C G G A A A A G G A A A A G G G G G G A A C C G G A A G G G G A A A A G A G G$ A GAA A G G GAA $A \operatorname{AGGGAGGAAGGAAGCCAGAGGGAAAAACGGCA}$ CAAGGGCCCCAGAGGAGAGAGAGGGGAGGAAAAAGGGGAGGG A A A A G A G A A G G GAA A G G A GAGGGGAGAAAAAAAGGCGACAAA GAGGCCAAGGGGGGGGAAGGAAGGGGAGAGAAGGGGCCGGAA GACAAAGGGAGAAAGGGAAAAAGAGGAGGGCAAAAAGGCCGG TATTCCGGGACCAAGGGAGGAGGAGGAAATAAAAGGGGGGGG GAGGGGAGAAAGAGGGGGACGGGAGGGAGAACAAGGGGAGGA A GAA A GAGAGGGGGGAAAGGGGGAGAGGCCGAGGAAAGAAAG A A A A A GAAAAAAACAGGAAGGAAAAAAGGGGGAGAAAAAAGG
 G GAAAAAAAGAAGAGGGAAAGGAAAAAGGGAAAAAGAAAGAA A A A A A A G GAGGGGACCACGGGGAAGAGGGGAAAAACAGAGAA A G GA A A G G G G G GCCAAAAGGAAAGAAAGGAGAAAAAGAAAA G
 GAAGGAAGGGAAACGGAAAAGGAGCAAAGAGGGACCAAGAAC C C G GCAACAAGAAAGGAAGGGAGGGAAGGAAAAAGAGGAAAA G G G G A A A A GA G GCC G G GACAA $\mathcal{A} A A G A A A G A G G A G A G G G G A A G G$ ACGGGGAAAGGACCCCGAAAAGGGAGGAGGAAGAACGAAAAA A A A A A TAAAAAAAAACAGAAGAGAAAGGTAGGGGCCATGGGG G G G G A A A G A G A GA GAAGGCCGAAGCCAGGAAAAATTAAAAAA G GAAGGAAAGAGGAAAAAAAAAAGGAGAGAGAAGAAACCCCC AAGGCCGAAAAAAGAAGAGGAAAAAAAAGGAAACAGGGAAAA A GAGAACAAAGACAGAGGAAAGACCCCAGGCGGGGGGAGAAA G GAA A A G G G G GAAA A GAAAAAAGGAAAGACAAAGGGGGCAAA C C G G A A G G A G A A A A G G G GAA $A \operatorname{GGGGAA} G A A A A G A A G G A A G A A A$ AA G GAAAAAAGGACAAAAAGGAGGAAGAAAGAAGGAAGACAG C GAAAGCCGAAGGAGAGGCAGGAAGGAGAGAGACAGCCAGAA A G G A G A G A C A A A A A A A A A G G A A G G A A A A G G GAA A A C G G G G G G GAATAAAACCCCAGAGGAGACCGGGGGGAAGGGGAGGAAAAG A GCCAAGGAACAGAGAAAAGGAGGAGGGAAGGGGAAGGAGAA G G G G G GAAGGAAAGAGACGGAAGGACAACAAAGGTTGGAAAC C A A A A A C C A A G G A A A G G GAAAAAAAGGGAGAAGGAAGGAGAA $C \subset G G G G A A G G G G G G C C A A A A G G A A G G G G G G G G G G G G G G C C B G$
 G G G G G G G G G GAA $A \operatorname{GGG} \operatorname{GA} A G G A A A A G G A A A A G G A A A A C C A A A A$ G G G G A G A G C A G A G A G G A A A G G G A A G G G G G A G G A A A G G A G G A A G G A A A A G G GAAA A G GAGGGGAAGGGGACGGAGAAAAAAAAAA G G G GAAAAAAACGGGGGAAAGGAGAAACAAGAAGAGAGATAG $G G A A C C G A A A A A A A A G G G C G C A G A A G A A G G C A A G A G A A A G G A$ G G GAGGAGACGAGGAGAACATXAGGAGGAAAAAGGACAGGCA A A A A GAGGAAAGAGAGAACCAAAAAAAAGGCCAAGGC
C GAAGAGAAAACACCAGAGGGAGGGAAAAAGAAGAAAGAAG G GAGGACCGGAAGGAGAGGGAGGAAGAAAGAAACAGAAAGAA G G A A G G A G A A G G G A A A T T A A A A A G A GAAA A A A G G A A A A A G A A CAGAAAAGGGAAGATTACCCAGGGAAGGCCAAAGGGAGGACC G G G GAACACAAACCAAGGAAAAAAGAGAGGAGGAAGAAAAAA $A G C C G G A A T A A G G A G G G A G G A G G A A G A G G G A G G G G A G G A G G G$ G G G GAGGACCCAACGACAGGGAAGGGAAGGAAAGAAAAAAAG GAGAGGAGGGGGAGCCGAGAAGCCGGGAGGGGAGAGGGAAGA
 G GAAAAGGAAAAAAAACAGGAGGAGGGAAACCGGAAGAAACA AACCAAACATGGGGAAAGAAGGAACCAAGGAAGGGAGGAGAA A G A A A A G G A A C C A A G G G GCCGATAGAAAGGGGCCAAAA G GAA A A A A A A A A G G A A G G A A A A A A G G G G G G C C G G G G A A G G G G A A C C AA $A \operatorname{GAA} A G G G A A A A G A A A A A A A G G A A A A G G G A C A A G A A A A A G$ GAACGGGAGAGAAAACCCGGGAAGAAGGAAGAAAGGGGAACC

A GACAAAAGGGGGGCAAGAGGAGGAAGAAAAAAGGAAGAGAG GAGAAGGGAACCGGGAAGAGGAAGAGAGCACAGGGGGGAAAA
 A A A A A G G GAGGGGAGGGAGGAAGAGAGAAGACGGAGAGAGGG G GAGGGGGGGAACCAAGGCCGGAAAGGGAAAAAAGGAAGGGG G G G A G A A A A A A C A A A A A A G GAA A A A GAA G GAAA A G G G GAAA $A$ GC G G G G G G G GAA $A \operatorname{G} G A A A A A T A A A G G A G G G A G A A C C A G A G B A$ $G G A A A A A C G A G A A A G G A A A A G G C A G G A A G G A G A T A A A A A A A A$ A A G G G A A A G A CAAACAAAAAAAGGAAAAAAAAAAGGAACAAA GAGAGGGAGGAGAGGAGGGGAAAAGGGGGGGGGGAACCGAAG A A G GAA A G G GAAAGAACGCCAAGGGGGGGACCAAAAGAAAAA
 G G A G A A A A A G G G A G A G A A G GA G G G A G GAC C C C G G A G A G G G G G GAAGAAGGGGGGGGAGAACAAACACCGGGGAAGAAGGGAGCC
 AAAGGACAGGAAAAGGAAAAAAAAGGAACGAAAAGGAGAGGG A A G G G G G G A A A A A G A A A A G G G G G G A GACA GAAA A A A A A G G G G G GAGGGGGGAAGGCCAAGGAGCAAAAAAACCAAGGGGAAGGAA AAAAGGCCGAGGAGGGAAAAACACAAGGAGAAGGGGCCACAA G GAAAAAGAAGAGGGGAAAAAAGGGGAAGGAACCGGGGGGCC $C \subset A A C C C C C C A A G G A A A A G G A A G G A A A A A A A A A A G G A A G G G G$ G GCCAAAAGGAAGGGGAACCCCGGGGAACCGGGGGGGAAAAA A A G GCC C G G G A A A A A A A A G G G G G G G G G G G G A A A A T T C CAA G G A A G G A A G G A A A A A A G GCC G G G G A A A CAGGGGGAA G GAAAAA G G A GAGGGAAAAGGGGGGAAGGCCAACCGGGGAAAAAAGGAAGA
 A A A A A A G G A A G G G G G G G A G G G G G G G G G C A A G G A A A G G G G G A $G$ G G G G G C A G A G A A G G A A G G G G A G A A A A G G G G A G A A $\mathcal{A} A G G G G G G$ AACCAGCAAAAAAACGAGAAGGAAGGGGGGGCGACCAAGGGG
 CA GA GAAAACGAGAAGAGAGACCCGGCCAAAAGGACAAGGAG A G GAAAAGGGGAGGGAGAGGGGAACAGAGGAAAGAAAGGGAG ACAAAAGGAAGGAAAAAAGGAAAAGGGGGGAGAAAAAAAAAA G GAAAGGAAGAGAGGGCCGGACAGAGCCAAGAGAGGAAGAAA $G G A A G A A C G G G A G A A G G G C C A A G G G G G G A G A G A G A G A A A A A A$ G G G GAGAAATGGACCCGGACAAAAGGGGGAAAGAAGGGGGGG AAAGGAACAGGGAGGAAGAAGGGAAAGGAGGAAAAGAGAGAA CAGGCCGGAGGAAGGAGAAAGGGGGGCCCAAAAGGGAAACAA A A G G G A G GCCA A A G GAGGAAGAGGGGGGGGGGAGAAGAAGAA GAAGCAACAAGGGGGGGGGAAAGGGGCCACAAAAAAAGTTAG GGGGCCAAGGGGAAAACAGAAGAAGGAAAGAACCAGAAAAAA $A G C C A G G G G G A A G G G G A A A A A C G A G G G G G G G A A G T T A A T T G G$ G GAGAGAAGGAAGGGGGGAGGGGAGGAGAAGAGAAAAAGGGA
 GAAA A A G G A A G G G G GAA $A \operatorname{AAGGGAAAAAAGGGAGGATGACACA}$ $A C G G A A G G G G G G A A A A A A C C G G G G A A C C G A G G G G G G G A A A G B$ A G C C C A C C A C G A G A G G G G G G C C C C A C G G G G G G A A A A $\mathcal{A} A G G G G$ G G G G G A A C G G A A A A A A A A G GCCAC G G GAAAAAA AAAAGCCCC G GAAAAGGAACCAGAGAAGAAAGGGGAGAAAACCGGGGAACA A GAGAAAGAGGAAAAAACTAGGACAAAAAGGGAAAGAGAAAG $G G C C G A G G G G A G A A A A G G A A A A G G A G A A A G A A G A A A C A G G G G$ AAAGGAAAAGGGCCCCAAAAAAAAAAGGAGAGGACCGGGGGG G G G G G GA $\operatorname{G} A C C A A G G G G G G G A G A A G A A G G A A A G A A A G A A A G A$ G G G G A A G GCCAAGGGAAAGGGAGAGGCCCCAAAGAAGGAAAA G GCCGGGGCAAAGGGAAACAGAGGCAGGAAAAAAGGGGACAA AAGGGGACAACCACCAAAGAGAAAAAACGGGAAACCAAGGCC A G G G C A G G A T A G G G A G G G G G A A G G GAA A G A A A GAAAC C G A G A A A A A A CACCC $C$ C A $\mathcal{C} G A G G G G G G G C C G A A A C C A A G G G A A A G G A G$ A GAAAAGGGGATGGGGGGAAGAGAAAAACCAAGAACAGCAGA

GAAGGGGGAGAAAAGGAAAACCGAGGAAGGCCGAGGGAGGGG $A C C C C C A G A A G A G A A A A A C C A A G A G A A A G C G G A A A A G G A G A A$ G G G GAACACCAGGGGGAGAAAGCCAAGGAAAAAAA GAGACGA G G G GAA A A GAA $A \operatorname{A} A G G G A A A A G G G G G A C G G A A A G G G G G G G G G$ A A G G G GAA A G G G G GAAAAAGGGAGCCCCAAGGGGAAAA G GAA
 AA G G A A GACAGGGGGAAGCCAAAAGGGAGATAACGAAAAAGG CATTAGAAGGCCGGGGAAAAGGCAGGAAAGGGAAAAAAAAAA A GAAAACCGAGGCCAAAGGGAAACGAAAGGAAGGAAAGGGGG AAGGAAAAGGGGGAGAGGGGAGAGGAGAAAGGTTAGAGAGGA G GCGGGAGGAAAGGAAGGAAGCGAGAAGGAACGAGGAAAGCC ACAACCAGGGAAAAAAAGCCGAAAGGATCCAAACACAAAGCG A GACCCAGGAGGGACCGGCACAGGAAGGAAGGAAGGAAGGAA G GACAAAAAGGGGGGGGGGGGGAAGGAACCAAAAGGGAAGAA A G G G G GCAACGAGAAGGGGGAAGAAACCGAAGCCTTCGGGGA $C \subset G G A A A G G G G G A G A G A A A A G G A A A A A A A A G G C C G G G G G B A A$ A A G A A G GAGGGAGAAGACAGGGGGAAGGAAAACCCCGAAAAA GCGGCAGGAAAGGAGGGACAAACACCAAGGGGGGGAAAAAGA GAAAGGAAGGCCGGAAAAAAAAAGCCAAGGGGCCCAGGGGGG
 $A G A A G G G G G A G A G G G G G G A G A G G G G G A A G G A A G G G G G G G G G G$ AACCAAGGGGAAAAGGAAAGCAGAAAAAGGAGGGGAGGAAGG G G G GCCCAAACCGACAAGAAAAGGAAGAGAGGGGGGAAGAAA G G G GCCGAGGGGACGGACCCAACCAGACGGACGAAAAAGGAG GAAGGGCAGGAAGGACAAAAACGGGGAGGGCCGAATAGAACC A G G GAGAAACGGGAAGGGGAGGAAAGCCACACCAGGAGCCCC C C G GAAAAAAGGGGGGGGGGGGGGGAAAAAGGGGAAGGAGAA A G A A A G G G A A A A G G A A A A GACCGGCAAGAAAAAAAAGGGGGG A A G GAGCCGGGAAGAGAGAGAAAAAAAAGGAAAAAAAAGGGG GGCCGGAAGGCCAACCGAGGGGTAAAGAAGAGGACGAAGGGG A A G G A A A G A A G G C C A A G GAGGGAAGGAGAAAAGGGGAAAAAA G GCAACAGGAGAGGGATAGGGGGAGCAGGAAGAGGAGAAAGA GAGAGGAAGGAAAAAAAAGGAAGAGGGGGGTTCGGGAACAAA GAAGACAAAAGACCAAAAAGAAAAGAGAAGACAGGGCCAGAC GAGGCCAAGAAGGGAAGGGGAAACAGGACCGGGAAGAAGGT$T$ A G A G G A A G C A G G G G A A G G A A G G A G G A C A G A G G G A G G G A G G A A G G G G G GAGGGCCTAGATTGAAAAAGGCCGGGAAGGACCAGAA
 GA $A \operatorname{GGG} \operatorname{GA} A G A G A G A G A A A A G G G C A A G G G A A G G G G G G A A G A C A$ G GAGCCAAAAAGGAAAGGGGGGAAAGTTAGCGGGAAAGAGAA G G G A A C A C G GCCGGAAGGAAGGAAGAGGAGAGCCAGAGAAAA GAGGGGCCAAGGCCAAGGGAGGGGAGAAACGGGGGACAAAAA GAGGGAGGAAAAAGGGGGAAGGAGGGGGAAAAGGAAGAAAAA G G A A G G G G G G G G G G A GCCGGAAGGAGAAGGCAGGGAG
GAACCCCAGAAAGAAAAGGAAGGAGGGAGAAAAAGAAAAAG A A G G A A G GAGGGAGCCGGGAAAAGGGAGCCGGAAAAGAAAGG A A A A A A G A T T A A G G G G A A G G G G G G A G G G A GCC G A A A A A G G A A G GAAAAAACCAAAGCCAATTGGGAACGAGGAGAAGGGGAAGG AAGGAACCAGAAGGAAAAAAAAGAAAGGGGGGAGGAGAAAAA A A G G A A A GCCAA $C$ A A A G G G G G G G GAGGAAAAAGGGGGGGCAAA A A GCCAGGGGAGCCGGAAGGACGAAAAAAGAAGGAAGGAAGG G G G G G GAA A A GAGCGAAAAACCAAGAGAAACCGGGGAGAA G G $G G A A A A A T G G A G A A G G G G C C G G A A G G G G A C A A G G A A A A A G A G$ $A C G A C G A A G G A G G G G A A A G G G A G G G A G G A G A A G G G A A C G G A A$ A G G G A A A G A A C C A A A CA $\operatorname{A} A A A A A G G G G G G A A A A A A A A A G G A A$ A A A G A A A GCC G GAACCAAAGAAGGGGCCGAAAGGAAAAAAGG A A $\operatorname{A} A A A G G A A A A A G G G G G G G G G G G G G G A A A G G A A G G A A A A A G$ $A G T A G G G G G A A G A A G G G G A A G A G A G G G A G G C A A G G G G A A G A G$ $A A G G G A A A G G G G G G G A G G G G G G A A A A G G A A A G A A G A G G G G G G$

G GAA A G G A G GAAGGAGGGGAGAAAAGGGGCGAAGAGAGGGGA $A G A G G A C A A A G G G G G A G G G G G G A A G G C C A G C C G G G G A A A G G G$ AGCAGGGGAAAAGGATGACGCAGGGAAAAAGAGGGGGGAAAA G G G GAAAACCAGGAGGAAGGAGAAGGACAGAGAGGGGGCCGG A G G GAGAGGGGGAGGGAAAGAGAAAACAACCCAAAGAAAGGG $G G T T A A G G G G A A A G A G C C G G A A G G G A G G A A A A A A G G A G A G A A$ GAGGCCAGGAGGGAGAGGGAGGAGAACCGAGGGAAACAAGCC AA $A G A A A G A G A G C A G G A G A G G G A G G G A G G G G G G G G G A A G G G A$ $A G G A A C G G G G G G G G G A G G A A G A G G G A G G G A C C G G G G A A G A B A$ G GAGGGAAGGAAAAAAAAGGGGAAGGAAAAAAAAAAAAAAGG G GAAAAGCGGGCAAAAAGGAAGAAGGAAGGAAGAAAAGGGGG G G G A G GAGGGGGAAGGAAGGAAGGCCAGGGAAAAAAAACCAA A A A A G GCCACGGAAAGTTAAACGGCAAGGGGGAAGAAGACAA A GCCGGAAAAGGGGCCAAAAGGAAGGGGAAGGAAGAGGAAAA AAAAGGCCAAGAGGAGAGGAAGGGAAAACCAGAGAAAAGAGG A G TA A A G G G G G G G GAAGGCGACAAGAAAAAGAGGCCAAACAT GCGGAACCCCACGGAGAGCAGGAAGGGGAAGAGGAAGGCCCC A G G G G A G G GAG GAAGAAGAAAAGAAAGAACAAGAAAAATAA G CACCAGAAAGGGGGAAAAAGAAAAGAAGGAAGCAGGGGAAAA G G G GCACAAGGGAAAAGACCGGACAGGAAGACAAGGCCBAAA AAACGGAAAAAAAGGGGGAGGGAAGGAAAGGGGAGACAGGAA AA $A \operatorname{A} G \mathrm{G} A A C C C C G G G C A G A T G A G G G A G A G A A C A G A A A A G C A A$ AA G GCAAAAGCCGGGGTAGGAAGGGGAAAAAAAGAGAGGGGG A A A A G GA GCCAAACGGACGAGGAAAGGAGGGGAAGGATAGCC A A G G G G G GCCTTCCGGCCAAGGAGAGAGGAAGAAGAAAAGAG G GAAAAGGGCCAAGAAGAACGGGGGGAGCAGAAAGGAGAAAG CAAGGAAAAAGGCCGAGAAAGGGGAAAAAACCAAAAAAAACC A A A A A A A ACCAACAGGAGAAAACCCCAAGGAGAGGAGGGGAG G G G GCCAGAAGGAGAAGGGGAAAGAAAAAACCGAGGAAGAAA GAGGGGCAAAAAGGAAAAGGGGGGCCGGAGGGAAAAAGACGG GC G G A G G G A C G GAA A G G G C C G A C A G G G A GAACCCAAGGCAAA AAAAAAAAGACGAAAAGAGGAACCGGGGGGAAAAGGAAAAAA A G G GA $\operatorname{G} G A G A A C G C A A G G A A C A A A A A G A A A A A A A C C G G G G G G$ A A G G G GAAAAGGCCGGGGGGTTCCGGCCAAAAAAGGGGGGGG A A A G G G A A A A $\mathcal{A} G G G G G G G G A A A C A C A T T G C G A G G C C A A G G A A$ $A G A C A A A A G A G G G A G G A G G G G G G G C C G G G G A A G A A G C A A A A A$ A GACGAGACAGGAGAACAAAGAAAGGGGGAGGAATTGGAGAA $C \subset A A T T G G A A A A G G A A G G G G A A G A G G A G G A G G A A G G G G A G A G$ GAAGAAAGGAAACCGGGGAAAAGGAAGAGGAAAGAACAAGAC A A GAGAGGCAAAGGGAAAGGGAGAGGGGCCAAGGGGCAAAAA GACAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGGAAGAG A A A G A G G G A A G G G G A G G G A A G A A A C CAAA A A A G GAA A A C CA C GAGAGAGAAAGGGGAAGAACGGGAGAAAGGAAAGGACCCC GA A A A A G A A GCAGGGGGAGGAACCAAAACGAAGAGGCCAAGGAG A G G GCCAGGCGCACAAACAGCCGGCGGGAGAAAAACAAGAAA A A G G G G G G A A A A G G G G A A CA $A \operatorname{AAGGGGAGGGAGAAGACAAAAA}$ GGACGGGAAAAAAAAAAAAAGAAAAGAGACAGAGCCCCACAA G G G G A A A A G G A G A G G G G G A A G G G G C C G G T T C C G G G G C C G G $\mathcal{C} A$ A G GAA A G GAGAAGAAAGGAGAAGGAAGAAAGGAAGGAGAGAA GACAGGGGAAGGGGAAAAAAGGCATAAAAAGAAGAGAAAGAG A G A A A A A A A GAACCGAGGAAGGGGGGACGAGACCAGAAAAAG GAGAAAAAAAAACCAAGGGGCAAAACGGGGGAGAGGAAAAAA

 G G G G A A G G G G A A C C A A G G G A G A A C A G GA G G G A A G G A A A G G G G A G G GAGACTTGGGGAGAAAGGAAAGACAGAACGGAGAAGAAA AAAAGGAGAAGGAAGAAGGAAAAAAACCAAAGAAAAGGAAAC AAGGAGCCGAGGAGGGAAAACCGGCCGGGGAGAAAAAAGAAC $A C A G A G A G A G A A A G G G G A A G G A G A C G A C A C G G G G C C G A A A A A$

GACCAACCGGGAAAGAAGGGAAGGAAGGGAAGCCAAAAAAGB G G G A A G G A A A C C G G A G A GCAGAGGGGGGAGCCAAGAACAA GA AA $\operatorname{A} G A A A A A G A A A A G G A A A G A A A A A A A A G G G G G G C C G A A A A G$ GA $\operatorname{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A A A A G A G G A G C A G G G G A A G G G A A G G A A G A A A A A$ AACCGAAAGGCCGGAGGAGAAGAGAAGAAGAAAACAAAGGGG
 G G G G G G G G C C G G G A A C A G G A A A G GCCAGGAGGCCAA G G G G G A C C GGCCAAAAAAAAGGAGAGGGAAGGGGAAAGCCAAGGAACC A A A A C CAA GA GAACCAAAAGAAAAAAAGGAAGCCCCGGGGGG G G GAGGAAGGGGAAGGAACCGGAAGGTTAAGGCCGGGAAGCC
 AACCGGGAACGGTTTTAGTTACAGAAAAAACCCAAAAGCACAA $G G C C G G A A G G A A A A G G C C A A G A G A A A A A C C C A A A G G A A G G A A$ A A G G A A G G A A A A G G G G G G G G A A A A G GAAAA A GAAGGCAAA G G AAGAGGCCAACCGGAAAGAAGGGAGGAAGAAGGACCAGGGGA AAA A AA G GAGAAAA GAGAAACAGAAGAGAAGAAAGGAAGGGG A G GAAAAAAGAGGACACCAAGGGAAACCGAACCCGGAAGGAA A G G GCCAGGGGGAAGGAAACACAGAGGGCCGGAAAACAAAAA AAGGAAAGAGGGGGGGCAGGGAGGAAGAGGAAGAACAGAGGG ACAGCCAAAAACAGAAAAGGCAGGGGAGACAGGAAGCAAAAG AGGAGAGAGGAAGAAACAAAGGAAAAGAAGCCAAGGAAGGGG
 CAGAAAAAATAGCCAGCCGGAAAAGGAAAGAGAAAGGGACGG A A A A G G G A A GCAAAGACCAGTAAGAAGAGGGGGGGGGAAGAG A G G G A A A A A GA A G GAGGAGGAAGAGGAAAAAGAGGGGAAA GA G GAAGCAACCGAGGAAAGGGGGGGGAGGGGAGAGGGAACAAG A T G GA $A C C G G G A G G A A A G G G A G A A G G A A G G A G G G G C G G G G G G$ A A A A A ACCCC G G A A G G G GAAAAGGGGGGAGGACC G GAAAA G G GAAAAGGGGGGGGAGGAAAGGGGGAAGGAAGGGACCCAGAGG GGCCCCGGGGAAAACCGGCCAAAAGGCCGGAAGAAAGGGGGG A A A A G G A A A A G G G G G G G G A A C C G G G G A A G G A A G G A A A A G G G G $G G A A A A A A G G G G G G A A A A A A A A A A G G G G G G A A A A A A A A G G G G$ G G G GCCAAAAGGGGAAAAAAAAGGGGAACCGGAAAACCAAGA G G A A A A A A A A C C G GAA A G G G G G G GCCAAAAACCGGAAAAAAAA G G G G G G A A $\mathcal{G} G A A A A G G G G G G A A A A G G A A G G G G A A A A A A G G C C$ T T G G A A A A G G A A A A G G A A G G G G A A A A G G A A A A G G A A C C A A G G G GAAGGCCCCGGCCAAGGCCGGGGGGCCGGAAGGGGCCAGAA AA $A G A A A A A A G G G G A A C C G G G G A A G G G G G G A A G G A A G G A A G A$ AA GGCCAAGGCCAAAAGGAAAAAAAAAAGGAAAA GGGGAGAA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGGGCCGGGGGG AAGGGGAAAAAAGGAAGGAAGGAAGGCCGGGGAAGGCCAAGB G G GACCAAGGAGGGCCGGGAACGAAAAAGGAAGGGAGGGGGA AAGAAAAAAAGGAGAAGGGGAGGGGGGAAAGGAGAAGAAACA AGGAAAAACAAAGGGAGGCAAAGGAACCCCAAAAGGG
GACAGGGCACAAGAAAAAAAAAAGGCAGGGGAAGGAAAACC A A A A CAAGACAGAGAGAGAAGAGGGACAAAACAGAGCAGGAA G GAA A GCCAGAGAGGGGGGGCGAAAACCGAAAGGAAGAAAAA G GAAAACCGGAGAAGGACAAAAAAGGAAACGGAAAAAGACAT GCAAGAAAAAGGGGGGCCAAGAGGAGGAGGGGAAGGCCCCCD G GAAGGGGAACCGGGGAAGGGAGGACGAAGAAGGACGAAAAG GAAAAAAAGAAAGGGGCCAAGGGAGGGAAAGGGGGGAAGGAG A G G G GAGACAAGGGCCCCCCAGAAAGACGGAAAAA GGGAGA G A A A A A A A G G G G G T T A A G G A A A A GAAAAAAAAA A G G G GA GA G G ACAAAAAATTGGCCGGCAAGAAAGGAAAAAGGGGGGAAAAGA GAGGGGACAGGGGGGGAAGGCAAGAAAAGAGGGAGGAAACAA A A GAGGAGAGGAGGCAAAAGGAAAGAGAGGGGAAAACCGGGG G G A A A ACCGACCGAAAAAGAAGCCGAGGGGAGACAAAAAAAA G GAAAAAGGAACAGGGAGGACAGGAGAAAGAGAACCBGAAAA $G G A A A A A A T T A C A G A G G G A A G G G A A G G A A G G A A G G G C C A A G A$

AAAAGGGGGGAAGGAACCCCAAGACAGAGGGGAAGAAAAAAG GACCAAAGAAAGGAGGAAGGAGGGAAAAAAAACCGGAAAGEG A A G G G G G A A A G A G G A G G GACAAGGAGAGAACAGGAAGAAACC
 A A GACAGAAGGAGGAACAAGACGGGGAAGAGGGAAGGCAGCC G G A A C C C C A A A A G G G G A A A A G G G G G G A A G G T A G G A A G G A A G G G G G G A A G A G A G A G G G A G GACCCGGGGGGGGGGAGBAAAAACC AAAAGAGAGGAAAGAAAAGGGGGAGAAGGGGGGAAAAACAAG C A G G G G G G A A G G A G G G A A G G G G A G C A G G A A G G G A A G A G G G G G GGCCGAGGGGAAAACAAAGGAAGAAGAAGGGGGGGGAGAC GA G GAAAGAAGGGAGAGGGAAAGGAAAGGAAAACACGAAGAAAA A A A G A G G A A G G A GA $A \operatorname{A} A G G G G A G A G G A C C A C A C G A A G A C A G A A$ G GAA $A \operatorname{G}$ GAAAACCCAAGAAAGAAAGAAAAAAAAGGGGGGGGGG GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGACAGCACCAA G GAACCGGGAGGGGAAAAAAAGAGACCCAAAAGGGGAAAACC AAACAGACAGAGGGGGAAAAGGCCGAAGAAGGAAAAGAAAAC C C G G G GACAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A G A G C C G G A G G G A G G A A G A G A A A A G G$ GAAGGGAGAGAGACAAGGAGAGGGGGGGAAGAGAACGETTAA A G G G A A A A CAAGGGCCGGGGCCAGGGGGCAGGCAGGACAAAG
 ACAGACGGGAAAAGAGGGAGAGGGAAAGGAAGGGGGAGCACC A G G GAA A A A GAGACCAGGAACCGCGAAGAAGGGAAGGGGGCA
 C C A G A G G A A G G G G G G G A C G G G A A A G G G G C C A A G G A G G A A G A A A A A A A A G A A G G G G G G A A G G G A A G G G G A G G G G G A A G A A A A A A A A G GA $\operatorname{A} G C C C C C C G G G G A C G A G G G G G A A G A G G A G G G G G A G G G G$ AACCAACAACGAGGAAGGGGAAGGAAGGGGGGGGAAGGAAGG G GAA $A \operatorname{GCCA} A A A G A G A T A G G A G A A A A C A G G A G G G G G A A A A G G$ A G GAGGAGAAGGGAAGAAGAAGAGAGGAGGGGGGCAAAGGAC A G G A A G C A A A A G G G G GAGA $A \operatorname{ACCGGGGAAGGGGGGGGAGAGAA}$ A A G G G G A A G A C A G G A G A A A G G G G A A G GAAA A G G G CAAA G G A A AAGGAAGGGACCAGAGGAAGGAGGGGGAAGAAAAAAGGAGCC ACGGAGGGAAGGCCGACCAGAAAGAAGGTTAGAAGGGGGGAA GAGGAAGACCGGAAAAAAAAGGAAAAGGAAAAAAGGAAGGCA GAAAGGACAGAAGGCCGGAAAAGGGAAAAGAAAGAGCAAAGAG GCGGGGACGAGGGGGGAGGAAAAACCAGGGAGAGGAGAGGGA GAGGAAAAAAACGACAGGAGCCGGGGGAATAAGAACGAAGAA AAGGCCAGCCGAAGAAAACCGGGGAGGAGGGAAAGGGGAAGA C C G A A A C CAAA $A \operatorname{AGGGGGAAAAAAAAGGAAAAAGAGGCCCCCC}$ GAACAAAAAAAGAAAAGAGGGGAGCCCCCCAAGGAAGAAAGG $A A C C G G A A A G C A G G A G G G A A C C A A G G A A A G A C A G A A A A G G G G$
 G GAACCGGGGGGGGAGGGGAAGAGAGAGACAGAAGGACAGGG C C G A A A A C GAGGAAAAAAACGGGGGGGACCGGAAAAAAGGAA

 A A GACAGGCACAGAAAGACCGGCCAGAGGAGAGAAAAGAGGG A A G G G A T T G G G G G A A G G G G A G G A G G A A A G G GAG GA GACA A A A G GAGAGGGGGGGCCAAAAGGAAGGAAGGGAGGAAAAGAAAAA A A A A A A A A A A A A G G A A GAA $A$ G CAGGAAGGAAAAAA $A \operatorname{A} A G G G G A A$ G GAGCCGGAGAGGAGAAAGAGAAGGGGAGAAAAAGAGAAGAA
 A A A G G G A A G G G G G G A G G G G G A C A A A CAA A G G A G G G GAAACAA G GAAAAGAGAGAGGAAAGAAAGGGGGAAAGGAAAGAAAGAAA GAAGGGGGAGAACAGAAGAGAACCGAGACAAAAAAAGGAGAC
 A A A A CCCCAAAGGGAAGAGGGAGGGGAGAGAGAGGACAAACC G G G G G A A G G G A A A G A A G A A G A G A A A A G G G G G G C C G G G G C C G G AGAAAGAGCAGGGGAAGGGGAAAAAAACAAAAGAAAAGAGGG

A G G GCCAGGAGAAGGGAAAAAGAAGGGGGGAAGGACAAAGAA $A G A G G A G G A C G G A G G A A A G G A A A A G G G G A A G G A C G G G B A A G G$ A A GAA A G A G G G GCCAGGAGGAGGAGAGAAAGGGGAGAACAAA GAAACCGGGACCGGCCGGCCGGGGAACCGGGGGAGAAGAAGG $C \subset G A G G G G C A A A C C A C A G A A A C G G G A A A A A A G A C G G A A A G G G$
 G GCCGGAGAAAGAAGAGAGGACAAAACAGGAAAGAGGAAAAG GAAGGGAGGGAGAGGAGGGGAGGGGAGGCCCAGGGAAGAACC GAAGGAGGAAAGAGGAGGAAAAGAGGGGGGAAGGAACCAA GA GAAAAAGGAAAAAACCGGAAAAAAAAAGAGAAGGAAGAGCCC A A A A G GAAAAGACAGAGGGGAAAAAAAAAAAAAAAAAAGGGG G G G G A A G G G G G G G A A G A A A A A A C C G GAGGGAGGAA GAGAAA G GA $A \operatorname{A} A G G G A G G G G G G G G A A A G A A A G A G A A A G G G A G A G G A G A A$ G G GAGGCCAAAAAAGGCCGGAAAAAAGGGGAAAACCGGAGAA A A A A A A A A A A G GAA $A \operatorname{GA} A A A G T A A G G G A G G G G G A A G G G G G G A G$ A A A A A A A A G GA A A A C CAA G GGGGGAAAGGAACAACAAA GGGG G G G G A A C A G G G GCC G G G GAAAA A G G GAAAA A G G GAACAAA G G A A A ACCAAAAAAAAAACCGGGGGGGGCCAAAAGGAAAAGGGG A A A A A A A A G G A A A A A A A A A A A A GGAAGGAAGGGGAAAA G GAA G G G G G G G G A A G G G GAAAA A G C C G GAA A GAAAAAAA G G G GAGGG G GAAGAGGGGGGAAGGAAGGAAAAAAAAAAGGGGAAAAGGGG G GAACCCCGGAAAAGGGGAAGGGGCCAAAAGGGGAAGAAAAA A A G G G GAA $A \operatorname{GA} A A A A C C G G G A A A A A A G G G G G G G G G G A A G G C C$ AAAAGGCCAAGGGGAAGGAAGGAAGGAACCAAGGAAAAGGAA A A G G A A A A A A A A G G A A A A A A A ACCCCAAGGCCAAGAAAGAAA AAGGAAGGCCAAGGAAGGGGCCGGAAAAGGTTCCGGAAAACAC A A G G G GAACCCCGGGGGGAAAAGGGGAATTGGAAAAGGAGAA G G G GAACCAAGGAAGGGGCCAAAAGGCCAAGGGGAAGGAAGG G GAACCGGGGAAGGCCAAAAAAAAGGAAGGAAGGGGCCGGGG AA $A G A A G G A A G G G G A A A A G G A A A A G G A A G G A A G G A A A A C C A A$ AAAAAACCGGGGGGGGGGAAAAGGCCGGAAAAAAAAAAAAAA AA G GAA A G G G G GAAAAAAGGGGAAAAAAGGAACCAAGGGGGG G GAA $A \operatorname{GAA} A A A A G G A A C C A A G G G G A A G G C C G G A A G G C C A C A A$ G GAAAA $A \operatorname{ACC} C A A A A A A G G G G A A G G G G A A C C G G G G G G G G G G G G$ A A A A A A A A $\mathcal{A} G G G G G A A G G G G A A A A G G G G A G G G A G A C A G A A G G$
 A GAGGGGGAAGGGGAAAAAAGAAAAATAAGGGGGACGGGGAG AAGGAACCCCGGAAGGGGGAGAAGAAGGAAAGGAGGGGAAGA C C G G A A G G G G A A A A A A G G G GCCAAAAAACCCCAACCAAACAA G GAAAGGAAAAAAAAAGGCGGGAAAAAAAAGGAAAAGGAACA $A A C C C G G A C A A G A C A A A A A A A A A A A A A G G G G G G G G T T G G G G$ A A A G A A A A A A G G G G G G A GAAAAAGGGAACCAAGGGGAAACAA G GAAAGAAGGGGCCAAAGAGAAACGAAAATCAAGAGGGCACA A GAGACAGGGAAAAGAGGAAAGGGAAGGAGGGAGAAA
A GAAAGGGAAGACCCGGAACCAAGGAGAGGAAAGGGGAAGG GGACAGCCAACCGGAAACACCCGGGAGGAAGGGGAACAAAGA A A A A A GA $\operatorname{A} G A G A G A A G G G C C G G T T G G G G A A G G G G G G A A A A A G$ A G G G T T G GAA $A$ AAAAAAAGCAAAGAGCGGAAGGGGAGAAGGGA G G G G G G G G A T A GAAAAAAGGGGGAGGAGGGGGAGAAGAAAGA G GAGCCGGGGGAAAAAGGTTAGAGAGCCAGCCAAAAGGGGGG AA GACCGACAAACAAAAAGGGGGGGAAGGGGGGAAGGGAABA A A G G G G GACAA A A G G GAGAGGGGGAGAACAGGGGACGA G GAAA G G G A G A G A A G G G G G G G G A A A G G G G C C G G A A GA $A$ A A A A G A A G A A G GAAGACCAGAAAAAGGGAAAAGGAAGAGAGAACAAAGAAAG G GAA ACGGGGCAGGGGGGAAGAAGAAAAGGAAAAGGAGGGGG $G G G A A A G A A G A A A A A A T T G G G G A G G G G G G G A A A A A A A G A A G G$ TTCCGGAAAAGGAACCGGCAACGGAGGACAGGAAGGAACCAG AA G G A A A GAAAGGAAGAAAAGGACAGAAGGAAAAAAGAACAG GACGCAGGAAAAAAGAAGAAGGGAGGGGAAGAGAGGGGTTCG

AAAGACGAAGAGAGAGACAGGAGAGAAAGAAAAGGGGGAAGA $G G C C G G C C G C A G A A A G A G A A A A A G G G A G A G G G A A A A A A G G A A$ C C G G A GA $\operatorname{CA} A A A C G G G G A G G G G G G G G G G G C C G G G G A G A G C A T X$ GGGACCAAAAAAGGGGAAGGAGAGAAAGCCCCGGAGGGGAGA
 $C \subset C \subset G G G G G G G A A G A G A A A A A C A A A G A A A G G G G G G A A G A C G G$ GAGACAGAGGGGCAGACCCAGCTACCGAAAAAGAAGCCAAAG A A C C A A A A A A G GCCAAAAGGGGAAGGCCCCAAAAG GAAAACC G G G G A A G G G G G GCCAAAAAAAAAGGCCGGAAGGCCAAAAGGGG AAGGGGGGGGAACCAACCAAGGAAAAAAAAAAAAAAAACCAA G GAA A A A GAGCCACAGGGCCAAGAAGGAGGGGGGAAAAAACC
 GAGGAAAAAAGGAGGGGAGGAACCGAAGGAGAAAAACAGGTA CAGGAACCGGAAGGAAAGGACGCAGAAGGAGAGAAAAAAAAA GAGAAAAAATCAAGAAAAGGAAGGAAGGAAAAAAAATAGGAG A A A A A G G G A A A A A A G GAAAACCTACCAGGCAAACCCGGAGGG GAAAGGGGAATTGAGGGACAGAAGAGACCCAGAGAGGGCACC GAAA $A$ A $\operatorname{A} A \operatorname{A} A C C A A A A C A A G G G A A A A A G G A C A G G A A G G G G G A$ GAGAAGCCAAGGAAACAAGACCAAAAGGAAAAGGGGAACAGA G G G GAAAGAAGAAAAAAGAACCAAAAAAACGAGGGGAGAGAA $C \subset G G G G G G C C G G G G A A A A G G A A A A G G G G G G A A A A C C A A A A G G$ G G G G A A C C G G G G G G G GCC G G G G A A G G A A G GAA $A$ G A A A A C C G G AATTCCGGAAGGGGAAAAGGGGCCGGGGAAAAGGAACAAAGG G G G G A A A A G G G G G G G GAAAAAAAAAGGGGAACCAAAAGGAAAA G G G G G GAACCAAAAAATTGGAAAAAAACGGCCCAAAGGGGAA GAGAAAGAGGCAAAGGCACCGGAGAGAGAAAAGGAAAAGAAA G G G G G G C A G GAA $A \operatorname{GAA} A G A G G G A A G G G G G A G A A C A A A A G G B A$ GAAA A A A C G G CA $A \operatorname{AGGGGGCCA} G A G A A G A A G G A G G A G G G G G G A$ AAAAGGGGACAGGGAGAAGAAGGAGACCAAGGGGGGAAAAAA G GAGGGGGGAGGGAAAGAAAAAGGAAGGACACAAGGAAGGGA GGCCCCAGGGCCGGAAGAAAAAGGGAAACCAAACGGCGAABA A GAAAAGGGAAGAGAGCCGGCCGACAGGGAAAGAAAGGAAGG CAGGACAGGGATGGGGAAGGCCGGAGGAGGAAAAGGAACAAG G G G A G A G GCC G A GAGGAGAGCACCGGACGGGGAAAGAA GAAA AAAAGAAAAAAAGGCCGGGGGGCCAAAGAAGGCCAAGGAGCC $A G G G A G A G A G G A G A A A G A A A G G G G A C A A G A A G G A C C G G A G A A$ CAGGAGAGGGAAGAGCGGGGAAGGAACCAAAAGGAAGAAGAG $A C G G A A G G A A G G G G A C A G C C G G G G G G A A G G G G G G G G G G G G G G$ A A G G A A A A G G G G A G G G G GAACCGGGACCGGAAAAAAGAAAAA CA $\mathrm{A} G \mathrm{C} C \mathrm{C} G \mathrm{~T} T \mathrm{~T} A \mathrm{~A} C \mathrm{G} G A A A A A A C A C A A A A G G G G G G G A C C G G G G$
 G G A A C A G G A G G A C GAAGGCCGGAAGGAAAAGGGGAAAACCAA G G G GAAAA $A \operatorname{A} A A A A A G A G G A A A A A A A A G G G A G G G G G A G A G G G G$ $A A G G G G G A A A A G G G G A A A G A A G G G A A G A G G G A G G G G G A G G G G$ A A A A A A G G A A A GAAGGCCCCGAAAGGGGCCGAAAAAAACGCC G G G G A A A A A A GAG GAC $\mathcal{A} G G G A C G G G A G A G A A G A C A A G B C A A A$ G G A A A A A A G GAAGGGGGGGAAGCCACGAAGGGAGAAAAGGGG G G GA $\operatorname{l}$ GAAAGCCGAAAAAAAGAGAGGGGGGGGAAAACAAAAC G GAAAAAGGAAAAAGGGGAGTAAAAAGGAGGGAACCAAGAGG AAGGAAAAGAAACACAGGAGAGACCCCCGGGAGAAGGAAAGG A A A A G G G G G G G G G A A G G GAA $A \operatorname{AGAAGAGAAGAGCAAAAAGAAA}$ $G G A A A G A A C C G A G C A G G A A A G A C C G G G A G A A A G G A G A G C C G A$ CA G G A A A A A A G GAAAAAAGGAGGGCCAGAAAAGGGGACAACC A G GACCAAGAGGGGGGGGGGGGGAAACCGCAACAAAGGACGG G GAGAAGGAACAAAGGGAGGAAGAGGGGAACCGAAGAGAGAA A GAAAGACAACCCCAGGGAGGGGGGGAAGGGGGGAAAAGGCC
 GAGAAACAAAACAAAAAAAAGGCCGGGGAGGAGAGGCCAACAC GGAAAGGGAAAAAAAAAACAGAGAAAGGAAACAAAGAAGGGG

GAGGAAGGGGCCGAAGAGAGGGGGAGGGGGGGGGCAGGGAGA GACACCGGGCAGGAGGCAAAGGCCAGTTGAGAGGGGCAGAGB AAAGAGCCAACGAGAAAGAGCAGGGAAGGGGGGGGGAAAGCC GAAACCAGCCAAGGACGAGGAAGGAAAAAGAAACGGAGAAAG A GAGAGCAGGAACCCCGGAGCCAAGGGGAGGGCCGGAAGAAA G GAAAAAGACAGAAGGACAAGGGGAAGGCCAGAGGAGAAAAA CAAAGAAAAAAGCACCAGGGGGAGCCCCGGAAAAAAAGAAAA GAGGGGGAAAGGAAAGAGAAGAAGAAGGAAAGAGCCAAAAGA GAGGGGCCAACCAGAACGAAGGAAGGGGAGAAGGAAAGAGAA A A A A A A A A G GAGAGGAAAAAAAAGAGAGAACCGGATGAGAAC A A A A A G G G G A A GCC $C$ G $\operatorname{A} A A G G G G G G G G G G A C G G G G A A C C A G G G$ AAGAAAAACCCCGAAAAAGGGGCCGGAAGGCCCCCACCGGAAA AAGAGGAACCAGAAAAGGGAAAAAAGAAAGAACCAAGGAGAA A A G G A A G A A GAGGAAAAAAACCCCAAGAGAGGAAGGAAAACC GAAATTAAAACCGGAGGAAAAAAAGGAAGGCCAGAGGATXAA
 G G G G G G G A A A A A G GCCAGAGAACCAGGGGGCAGA GAA G G GAAA A A A G A GAAAAAGGAGGGGGAAGGGGGAGAAAACCAGAAGGGG $A G A C A G G G A A A G A A G G G A G G G G A A A G G G A G G A G C G A G G A G A A$ G G G G C A G G A A A A A A C C G G A A G G G G G G G A G G T T G G G G G G G G A A AACAAGGAAGAAGGGGAACCAAGGGGGGCCCCCCGGAAAAAA G GAAAACCAAAACCAAAAGGGGGGAAGGCCGGGGGGAACCBG AACCCCCCGGGGAAAAAAGGAAAAAAGGAAGGGGAAAAAAGG C GAA $A \operatorname{GCCA} A C C A A A A G G G G G G A A A A A A G G C C A A G A C C G G C C$
 AAAAGGAAAGGGGGAAGGAAAAAAGGAAGGAACCGGAAAGAA A A G G A GAGTAAAGGAGGGACGGAAAAGGCCAGACAGAGAGAG GAGGGGGGAAACGGGGGGGGGGAGGGAAGAAAAATTAAACAG A A A G A A G G GAGGACGGAAGGGGGGGAAAAAGGAAAAGGACAA A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A C C A A C A A A C C G G G G A C A G A A$ A GAGAAGGAGAAAGACAGCAGGGAGGGGCCGGAGAACAAAGG $G G C C A A G A G G C C A G G G G G A A A A G A G G A A A A A A G G G G G G G G A A$ $A C A G A A G A A G A A C A G G C G A A G G G G A A A C G A G G G A A A G G A G A A$
 A A A A G A GAGAA $A \operatorname{A} A G G G A A G G A A A A A A G G G G G G G G G G A G A C A A$ G GAA A GAAACCCGAGGCCGGAGGAGGGAGGAAAAAAGGTTGG AAAGAAGGGGCCAGGGGGCCGGGGAAAGCAAAGGAGGGAGAG GAAAGACCCCAGGGGGGGCAAACCAAAAAGAAAGAAGGAGGG A A G G G G GAAAAGACGGAAGAGACCACGAGAAAAAAGCCAGCA G G A A A A G A GA $\operatorname{A}$ G A A A A A A $A G G G G G G G G C C G A G G A A A G A A G G A A$ $G G A A G G A A A C G A A G A C G G G G G G A C A G A A C C A G G G G A G G G G G G$ C C G G G G G G A A A A C C G G G G G G A A GAAAAA A A A A A GA GAAAAA A G G G GAA $\operatorname{T} T \mathrm{~T} G \mathrm{G} G \mathrm{G} A A \mathrm{~A} G A A \operatorname{A} A A C C A A A A A A G A A A G G G G G G G G$ GAAAAAAGGGAGGGGGAAGAAAGGGGGGCCAGGGCCA
$G C C A A A A G G A A A G C C A A A A G A G G T A G G A A A A C C A C A A C C G A$ C CAAACAAGGGGAAAAAACCGGGGGGTTAAAAAAAAGGGGCA A G G GAGGGAAACAGAGGACCAAAGAACAGGGAGGGACABAAG ACGGAGAAGGCCAACCCAGGGAGGGAGAGAAAAAGGAAAAAA G GAAAAAACAGAAGAGGAAGAAAAGGGGACCCAAAAGAGAGA GAGATACAGGGACCAGGAGAAGCCGGAACCAAGGGGAAGAAA G GAA A A G G GAGGGAGGGGAAAAAAAAAAAACCGGAAAAGAGG AAGGCCAAGAGAAGGAGAGAAGAAAAAAAGGGGGGAGGAAAA A A G G G A A A G G A A C G A G A A A A G G GAGAAAAAGGGGAAAA G GAA G G G G G G G G G GAAAGAAGGGGCCGGGGGGAAAACCAAAAGACA TAAGAAAGAGAGGGGGAACCGAGGAGAAGAAAGGGGCAAAGA A A A A A A G G A A A A G G G GAAAAGGGGGAGACACCGGAACCAAAA C C A A A A A A GAG GAGGGAGACGAAGAAGGGGAGGGAAAGGAAA G GAGGGAGAAGGGACCCAAGGGAAGAAGAGAAGGGGGGCAAA $A G G G A A A A A G A G A G C A C C G G G G A G G G G G A A G G C C G G A A A A A A$

A A A A A A A G G G GACC $\mathcal{A} G G G A A G G G A G A C A G G G G G A G G G G G A A A$ G GAAAACCAACCCCAGGGGGGGAAAAGGGGAAAAGGGAAAAA GAAGTTGGGGAGGAGGGAAGGAAGGAGAACGACCGGGGAAAAG ACAGGAGAAGGAGAGGGGAAAAAAGGAACCGGGCAAGGAGAA
 A A A A A A A GACA A G G G G A A G GACAGGGAGAGAAGGAAAAAAAC C C C C G G G G G G G G G G G G A A G G C A A G G G G G C C G G G G A G G G A A A A G G G G G GAGGGGGAAAAAAGGGGAACAGGAGGGAAAAAGGGGA A G G G G G G G A G A A A A C C G GACCCGAAGAGGGGGACAACCGGGG G G GACCACCCAAGAAGAACAGGACAAGGGGGGGAAAGGGGGG C C G G G G G G G G A A C C G GCAAACCGAGGCCGGAAAAAGGAATA G

 A A G A A G A C G A G A A G G G A G G G A A A A GAAA A G G G A C G A A A A A G G
 G GAACCACAGGGAAGCAGGGGGAGAAAAACGACCAGAAAAGA A A G G A A A A G GCCCCGGGGGAGGGGGGCCAAAAAAAACAAACC G G A A A A G G A GAAAACCGGGGACGGAAGACCGGAAAAACBGCA AAGGGGGAGAAGGGAAAGAGCAGGAAAGGAAAAAGAAAGGGG
 G G G GAA A A G GACGAAGACGAGGAACCAACCAGGGAGGAGAGA CAAAGGGAAAGGAGAGGGAAGGGGGGAAGGAAAA GAAAAAGG

 A GAGAGGGAAAGCCACAAAAAACCAAAGGGCCAACCGAGGGC AAAGACGGCCCAGACCGGAGCACAAGAGGAAGAGAAGAGGAA ACATGGAAGGAAAAAAAAAAAGGGCCCAGGCAAAACAAAAGG GAACGGGGAAAAAAGAAGAACAGAGGAAGAAGAGGGCAAGAG A A A A G GAGGAGAGGACAGAGGAACGAAGAAAGAAAAAGAAAA G G G GAAGGGGAGGGCCCCGGAAGGAAAGAGAGGGGGAAAAGA C C A G G GA G A A A A A G C C G G A A C C G G A A G G G A A G C C A A G G G G G G A G G GAGGGGGAAGGGGCCAGAAAGAGAAGAAAGAGAGAGAGG G G GAGGAGGAGGACAAGGAAGGGGAAAGGGGGAGAAAAAGCC AAAGAAGGGGGACCGGAAAAGAAAGGGAGGGACACCGGAAGA GAAGAAGGGGGAGGCCAGAAAGGGGGGAGGGAGAAAAAAAAG A G G G A A G G A G A A C C A A A A G G A G G G G A G A A G G G G G G G A G G G G G AGCAAGCCAAAAGAGAAAGGGGAAGGCACAGGAAGAGAGAGA A G GAGGGGGGGGCCAAAAAAGGGAAGAGGGCCGGAAGGGGGG A G A A A A A A G G A A A A G G A GAGAGCCAGGGAAGGAACCGGAGAA C C G G G G G A C A G A GA A G G G G G C A A G G GAGAGGAGGAAAAAAAA G GAGGAAGCCGGGAGAAAGGAAGAAGAAGGGGGGGGCAAAAA G G G G A A A A A A G A G G GA $A \operatorname{GA} A G G A A A A C G A G A G G G G A A G A C A C A$ G GAGGGAGGAAAAAGGCCAGCAGGAAGGAACCGGCCAGAGAG A G G G G GCCAGAAAAGGAGAAGGAAGAAGGGGGAAGGAA GAAA $A A G G G G G G G G G G A A C C A A A G G G G G G G G A A A G G G G G G G A G G G G$
 G GAAAGCCAAAGCAAAGGGAGGCCGGAAGGAAGGAAAGAGAG GAAAGAAAAGGGAGGAAGAGGAAATACCCAGAAAAAAAGGAG A GAAGGGGGGAGAAGACCCCACAAAAAAGAAAGGCCGACCBG A A A A G G A A G G G G G G C C G A G G A A C C G G G G G G G G A G A A G A G G G G AAAGACGGGAGAATAACAAGAACCAAAAGGAAGGGGGGGGAA G GAGGGAGCAAGGGACGCGGAACCGGAAAACAGGTAAGAAAG GAGAAGAGCCGGAAGGACAGCCAGAAAAAAGAAAAAAAGGAC AA $A G A G G A A G A C A G A A A A G G C C A A G A G G G G G G G G G G G G G G G A$
 A G G G G G A G G G C A A G A C A G G A G G G G C C G G G G G G G G C C C C A C A C GAAACCAAACGAGAGGCGCACAAAGAAAGGAGAGCAAGAGAG $C C G A A C G G A C A A A A G G A A G G A A G G G A G G A A A G C C G G A A G G A C$ AAGGAAGGAAAAGGCCAACAGAGAAAAAGGAAAAAAGGAGGG

CAAAAAAACCAGAGCCGGGAAAAACAAGGGGGGGGGGGAGAG A G G G G A G G G GAACAAAAAAACCGAGGAGGGTAAAAGAAAAAA G G G G A A G A C A A GAGGGGAGGGAGGGGGGAAACAAAACCAATA
 G G G G T TC C G GCAGGAAGAGAACCCAAAGGGAGGGGGAACACC
 CAAAAACCGGAAGGACGGAGGAAAAAAGAGAGGGAGAGAGCC AACCAGCCGGAAGGGGACAAGGAAGGAACCAGAACAGGAAGAG G GAA ACGGAAGGAGGAGGCCCCAAGGGAAAAAGGGGAAAAGB GAGGAGAGAGAGAAGGGAAAGGGAAAAAAAAAAAAAGGAGAA G G G G G A A A G G G G G G A A G GC CA $\mathcal{A} G G G G A A A A G A G G A G A G A C C C$

 $G G A A A A A A A A G G A A A C A A G A G G G G A A G G G G C A A A C C G G A G A C$ G G G G G G A TAA A A A A G G G GACGAACCAAGAAAAAAGGCAAAAA T T GAGGGGAATTGACCGGCCAAAAAGGGGGGGAGAAGAAAAA AA $\operatorname{A} G A G G G A G C A A A A A A A A G A G A A C A A A A G A A G G A G G G G A G A$ G GCCGGCGCCGGGGAACAGAGGCACCAGGAAGAGGAAGAACC $G G A A A G A G G A G A A G G G G G A A G G C C G G G G G G A G A G G A G G A A G A$ A A A A G G G G A GCCGGGAGAAGCCGGAAACGGGGAAGAAGAGAG GAGAAGGGAAGGGAAGAAGGGGAAGGGGAAGGAAACAGAGGG A A A A A GCAAAAAAAAAGGGGAAGGCCAGAAGAACAGGAGGAG G GAGGGGGAGAAAAAGGAGGAAGGAAGGAAGGCCGAAAAAGB GAGGACCACACCGGGGGGAGGGGGCCAAGACAGGGGAGGGGG A GAGAAGGAGGGCGGACCAAAACAAGGGGGAGGGGAAAAAAC GACAAACCGGAAGGAAAGACAGGGAAAGAAAAAGAGAAAAGA G GAGAA $A \operatorname{A} G G A A G G A G G A A G G A G G G A A A A A A A A A G G A C A G G G$ A A A G G A G A A C G GAAAAA A GAAAAGGAGAAGGAAGAGGAGAAAG G G G GCA GAGGGAAAAGAAACCCAAGGAAGAGAAGGAGAAGGG AACCGGAAACAACAGGGACCACGAAAAAGAGGGGAAGAAAAG G A A G A A A A A $\mathcal{A} G G G A G G G G G G G G G G G G A A A A A G A A A A A C A A A A$ G GCCGAAAGGGGAAAGGAGAGGAGAGAAAAAACCGAGAACAA $C \subset G G C A C C A A G A A G G A G G G A G G A G A G C C A G A G G A G G G G G G C C$ G G G GCCAGAGAAAAAAGGAAGGAAGGGGAAACAGACAAGGGG G G G A G A G A G A G G G G G G G G G G A C A G G G A C A G GAA A A G A A A $\mathcal{A} A G$ A A A GAGGGGGAAAAAAAAGGGGGAGGAGGAACAGGAAAAAAC G GAA $A \operatorname{GAA} A G A A G A A G A A A A G A C C G A A A C A G G G A G G C C C G G G$ $C \subset G A C A A A A G A G G G A G G G A A A G A A G A A G C A G G A A A G G G A A G A$ G G A A G G G G A A A A G G A A GAAAACAGCCGGCCAAAAGGCCGGAC A G G A A A A A G G G GCGGAAGGGAAGGAGGGAGAGAA GAA GAAAA $G G C C A A G G G G A A C C A A G G T T G G G G G G A G A A G G A A A G G G A A A G$ G G G A A A A G A A A G A A A A C A A A A GAAAAAA A GAAA G G GA G GA G G G GAGGAAGAGGAGGAAGGAAAGAAAAGAGGAGGGGGGGAAAC A A G G A G A G G G G G A G G G A A A A A A A A A A G GAAA A G GA G C
AAGAGGAAAAAAAAAAAGGGGGAGGGGACAAACAGGAGAAA CAACGGAGGGAAAGGCGACCGGAAAAAAAAGGAAAAGAAGGG A A G A G GCCGGAAGGAAAGGGGGAGGGAGGACAGAGGGAAGAA A A G G A A G G G A A G G G C A G G A A G G G G G G G G A A G G G G G G A A G G $C$ A A GAAGGGGCCCCACAAGGCCAGAGGGAGCCAAGGGGAAGGAG A A G G A A G G A G G A C C A A G GAGAAGGAACCGAAGAGAAGACC G G G G G G G G A A A G A C G G A G G G A G A G A G G G G G G G G G A G A A G G G G G G C CAA $\operatorname{C}$ G A A G GCCAA $\mathcal{A} A A A G G G G C C G G A G G A A A G G T T A G A G G G$ GAGGAAGGGGCACCGGAAAGAGAGAAAAAGAAGAAAAACAAG GGGACCAAGCAAAAGGGGGGGGAAGGAACCCCAGGGGGAAAG
 A A A G G A C C G G G G A A G G A A A G G G A A G G G G A A G G A A A A G G G G A $G$ C CA $A$ A A A G A A G G G A G G A G G G A A A A G G G G C C G C G A G G G G G G G G A A C C A A G G G G A GA G C CA A A C G G G G A A A A A A G G GAAA G G A G G A $A C A G G A C A A A G G C C G G C C A A C C G G A G A A A A G G A G G G A G G A G A$

A GAGAGGACCGGAGAGGAAGAAAAGGGGAGGAAAAGGACCGG A G A A A A C A G G G A A G G G A G G G G G A A A A A G G G A A G G G G C A T A A G A G A G C A A G C A G G C C A A G A G G G G G G A A G G A A G G G G A A A G G G G G A GAACAAGGAGAGAAAAAGGGGAAAACCGAGGAGGGAAAAAC A G G G G G G G A C A A A G GCGGAAAAGAGGAAACGAGGAGGGAAGA G GCCAAAAGGAAGGAGAGGAGGGGAGAAAAGGGGGGGAAAAA A A A A A A A A G G G G G GA $\operatorname{A} G \mathrm{G}$ GAAAAAAGGGGAAGGGGGAGACAAA AAGGAAGGAGGAAGAAGGAGGGGGAAAAGGGGAAAAAAGGGG G G A A G G G G A A G G G G A A A A A A G G A A G G G G C C A A G G C C A A G G G G GGCAGGAAAGAAGCGGAAAAAGAAAGGGACAGAAGAGGGGGG G G G GCCGGCCAGAGAAGGAAGAAAGGAAAAGAGGCCGAATCC A G A A A G A G A A A A A A A A G GAA A A A A T TAAAAAGGGGAGAG GAC C T T C C G G G G G G A A $\mathcal{G} G G G G G G G A A A A C C A A A A A A A A A G G G A A G A$ GAAAAAGAGGACAGAGGAACAGGAGGGGGGACGAGGAGGGGG G GAAAGGAAGAACAAGAGAAGGAAGGAAGGAAGAAACCCAAA $A C C C A G A G G G G G G G A A A G G A C C A G G A G A A G A A A A A A G G G G A G$ A A G A G A G A G G G G G G GAGGGGGGAAGGACAGGAGGGGGAGAAA AAGGAACCCAAGAAAGAAGGAGAGCAAAGAGGCGACCACCAA C C A A A A A GCAGACACAGAGGAGGGAAAAAAGGAAAGGGCCGG
 GAA A G G GAAGGGGGAAAAAAAGGAAGGGGGGACCAAAGGGAG A GAA $A \operatorname{GCA} A A A G G A G A G A A A A A G G G G G G A C G G A A G G G A A C G G$ C C A A A A A G A A C C C C A G GACAAC GAAAGGAAAAAACCGAAAG G A G G G A G G A A G A G G G G G CAAAAAAGAGGACGAACAC GAA GAGA G A G G G A A G A C A G A G G G C C A G G G G G A A G A A A A GA G A A G A G G G G A GAAAAACCAACCAAGGAAGGGGAAGGAAAAAAAAAGAAAA G G G GAA $A \operatorname{GA} A G G G A A G G G G A C C G G G G C C A A G G G A C A A G A G A A G G$ C C G A G G G A A C G A A G C A GACCGGAAGAGAAAGGGGGGAAAA G G A A A A A A A A G GCCAA $C$ G G GAGGGAAGAGCCGGGAAAAGGAGAAA $G G A A G G A A A G A G G G G G G G A G A A G A G G A G G G G G G A A G A A G G G G$ G G G A A A GACAA GAA $A \operatorname{A} G A A G G A A G G C A A A A C A G G G G G A A A G G G$ GACCAAGGGGAAAGAAGGGAAAGAGGACGGAAGAAACG G GAA G GAAAGGAAGACAACCACAAAAGGGGGGAAAAAAGGGGGGGG
 A G A A G G A G A A G G G A G A G A G G A G A G G G G G G G G G T T A A A G C C C C $A G C C G A G A A G C C A A G A A G G A G G G A G A A G G A A A A A G A A A G G G A$ A G G G A A G G A A G G A G G A G G G G G G G G A G A G A A G G G G C C G G C C G G G GAGGGAAGGGGAAGGAAAAGGGAAAGACAAAGGGGAAGAAA A G G A G G G GCCAAAA A G G G GAGCAAGGGAAAACCGGACGCAGAA
 A G G A A C G G A A G A A G A A A G G A T TAAAA A A G G G G G G G G G GA $\mathcal{A} A A$ A A G G G A G G A A A CAA A G G G A A A G G GAA $A$ G GAGAAAAAACAAAA A G G GAACGAACTAGGGAAAGGGGCCGAGACCGAAGCCCCGGAG A A G G A A G G G G G A A A A G A CAGAGAGGGGAGAGAAACCAAACAA GAAGGGGGAAAGGGGGGGGGAAAAAAAAGGCCAAGMCAAAGB G G A A G G A A G G A G G G T A C G C C A A G G G G A G G G G G C C C C C C A C G A A GAGCAGAGAGGCCAACAAAAGGGATGGGGAAGGGGAAAACC A GCCGGAACCGGAAGGAGGAGGAGGGAAAGAAAAAGAGGGGG AGCCACGGAACAAGAGGGGGAACCAAAGAGGAGAGGCCAAGA A GAGCCGGAAAAAACCGGCCGACCAAGGGAGCGAGGCCAGAG A GAGAGGGGGAAGGAGGAAAGGGGCAAGGGAAACAAGACAGG A GAGGGCAGACAGGGAGAAGAAAAGGTTACAGGGCCCCABAA G G G G C A G A G G G G G G A C A A A A G A A A G A A A A GC C A A G G A A A G G G AAGGGGGGGGGGAGGAAAGAGAGACAAGGGGAAGAAAAAAGG A A G G A A A G G G G G G G A A A A A G A G G G G G G G G G G A G A A A A A A G G A AA G GAGAGAAAAGGAAAAAGACAAAAGGGGCCCAGAGAGAAC
 A A C C G A G G A G CAG G A G C C G A A A G G G A A GAAGGCAAC GAA A A G $A A C C G G A A G G A G A G G G A G A A G G G G G A A A C G A C A A G G G G A A C A$

GAAGAGAAGAGGAGGGAGAGAACCGGAACAAAAAGGTTGGAA A A G GAA A GACACGGAAAAAAAGAAAAGAAGGAGGGAAGAGAA AAGGGGGAAAAAAAAAAAAAGAACGGGAGGCCAAAAGAAAGG $C \subset C A C C G G G G A G A G G G G G A A A A A C A G A G G G A A A C G A G A C A A A$ G GAAAAGGGGAGGACCGAGAGGGAGAGGAGAAGGAGAAAAAA
 A A G A A A G A A A G A A A A G GACCGGAAGGGAAGAAGGAAAAAGCC CCGGAAAAGGAAAAGGGGCAAAAACCAGGGCCAGAAAGAGAA G G A A G G G G G A G GA $A \operatorname{GG} \operatorname{GA} A C C G A G G G G G A G A G A A G A G A A A G C C$ AGGGAAAAACAGAGGCGGAGCCGGCCAAGGGGGGGGAGAAAA G GAAAAAAAAGGGGAAAACCGGGGGAGGAGAGAAAGGGAGAA G G G GAACCAAAAAGGGAAGGAAAAAGAAAAGGAGCAGAAAAB GAAAGGAGAGGAGACAAGGGGAAAAGAGAGGGGGGAAGAGAA G G G G G G G G A G G G G G G GAGAGGAAAAAAAAGACGGAGAA GAAA G GAAAAAAGGAAGAAGAGACAGGGGAAACCAGAGAGAAGGCC A A A A G GAA A GAA $A \operatorname{A} A A A G G G G G A A G G A A A A A G A A A A G G G A G A G$ G GAA $A \operatorname{GAAACCGGGGAAAAAGGATAGGAAGGAAA} \operatorname{A} A \operatorname{A} A A G G G G G G$ C CAAAAGGAAGGCCGGGGCCAAAAGGCAAGGAGAAGGGCCAA AAGGGGAAAAAGGGCACCGGAAAGAAAGAGGGGGAGAAAAAG
 G GCCAA $C$ G G GAAAAAAGGGGAACCGGCGGAGGGGCCAAAAAG GAAGAAGGTTAGAGCCAACAACGGAGAAAAGGAGGAGGGGGG $G G A A A A C C G G G G A A A G G G A A C C G A G G A A A G A A G A A G A G A A G G$ A GAAA A A G A GAAAAAAAAGGAAAAGAGAGATAA G GAGGGAGAA A G G A $\mathcal{A} G C C G G G G G G G G A G G G G A G G G G G A C C G A G G A G C A G G T T$ CCAAGGAAACAAAGCCGGGGAAGGGGAAGGGGAAAAGAGGGG GAAGGAAAAGAAGGCCAAGGAACAGGGGGGATAAAAAAAAGA
 G GCCAGAGAAAAAAAAGGGGGGGGAAAAAAGGCCAAAAGGGG AAAAAAAAAAGGGGAAGGAAAAAAAAGAGGAGGGAGGGGGGG A A G G G GAA A G A A A A A A A A A GAGGGAAACCCGGGAGACA GA GA G G G GAGAGGGGGGACCAAAAAACCCAGGAAGGAAGGCAGGAC A A A GAAACGGCAAGAAGGGGGGGGGGGGCAGAAGGGAGGGGA A GAA A GAAAAACCCAGAAGAGGAAAGCAAAAGCAACAATTGG G G G G A A A A A A A A G GCCGGGGCCAAAAAAAAGGGGCAAAAAAA G G A G A G G G A A G G A G G G G G A A A GAGCCGGGGAAAAAACAAGAA AAAGAGGGAAAAAAAAAAAGGGAGAAGGGGCACCACAAAGAG G G GACAGGAGGGAAAAAGGGGGAGGGAAAGCCAGGAGAGGAA G G G G G G A G A A A A T T A A G GAGGGGGTTGGCCAAAAAAAAAAAA GAAGGGGAAAGAAAGAGACCAAAAGGAAAAGGGGGAAAGGAA $G G A A G A G G A A A G G G G A C C A A G G G G A A G G G G G G G G A G A G A G A A$ G G G G G A A A A G A A G A A C G G G G A A G GA A G G A A G A A A A G G G G A G G GAGGCCAAGGGAAAAAGGACAGAAAAGGGAAACAAAAGGCCA G G GAGCACAAAAACGGGGGGCCCAGGGAAGAAGGCGC
 G G A A A A A C G GAAGGGAGGAGGAGGAAGGAGAGGAGACAAAA G AACCAAGGGAGGAGGGAGAGAGGGAGGGGGAGAAGAAAAGAA
 G GAGGGACGAAGGAGAAACACAAAGGAGAAAGCACAACAAAG A A G G A A A A A A G G A A A A G G G A A A A G G G G GAAA A G A A A A A A GA G GAAAAGGGACAAGGAAAGGGAGAAAACCAGAGGGAAAAGGGG G GAGAAGGAAGGGGAAACAAAAGGAAAAGAAAGGGGAAAGGG G G G G A A A A A A G G G G A A G G G G G G G G A A A A G GAA $A$ G A A G G C C A A GAACAAACGAAGAAAGCCGAAGGGAGAGAGAAGGCCGGGGAG
 G G A G A A A G A GAGGGGGAAGGGGCCAAGACAAAAGGAAAGGAG C CAGAGGGCCAGGAAGCAAAAGGGAAGAAAAAAAAAGGAGAA A G G A A A G G C C G G G G A A G G G GAAAA A G G C CAAAACC CA A A A A A G G G G G GAA A G TAGGGGAAAAAGAAGAAAGGGAAGAAAAAACCAC

G GAAGGAAGGAAGGACCAGAAAGAGGAGAAGAAAACCCAAGB G G G G A C A G A A A A A G G G A G A A C A A A G G G G G G G G A G A A A G G A G G CACCGGAAAAAACCGGGGGGAGGGAGGAGGAGGGGGAGAAGG AA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A A C C A A G G A G A A A A G G G G G A A A G G A G G G G G$ GAGGAGAAGGGGAGGGGAAAGAAGAGGAAGAAAAAAGGGGAA CAAAAGGGGAGAACAAAGGAGAAACCAACAAGAGGAAAAA GA A A G G A A A G GA G GA G A A C A G A A A G G G G A T T T A A C C G G G G C C G G GGGAGGCCAAAAAACCGGCCAGGAGGGACCAAGBAAGGGGCA GAAAAACAAGAAACGGGAAAAGGACCAGCCGAAAAGAAAAAG ACGGAAGGAAGGGACCGAACAAAGAAAAAGAAGGAAAAG GTT G GAACCGAGGAAAAGAGGCAACGAGGAAAGGAAACCGAGGGA G GAA $A \operatorname{GGG} G \mathrm{G} G \mathrm{G} A \mathrm{G} G A A C A G A A C A A A A A A A A G G G G G G G G A A A A$ A A G A G A A A A A C CAA $A \operatorname{G} G A C A A A A G G A A A A A A A C G G A A G G G G G G$ C C G G G G A G A A A A T T G G G G C CAA G G G GAAAAAACCGGCA GAAA A GCAAAAAAAAAAGCAAAAAGAAAGGGGAGAGAAAGAGATTA A A A A A GAGCC G GAA AGAGGGCATTGAACGGGAGGGGGGGAAA GAGAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCCAAGB G GAA $A \operatorname{GAA} C \subset A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G G$ AAAAAACCGGAAAAGGGGCCGGGGAAGGGGAACAGAGAGGAA A GAGCCACGGAAGGGAAGAACCGGAAGAAAACGCGAGAAAGB A A A A A A A A A A A A A A A A A A A A A A A A A A G G GAGGGAAAAGGGG AAACAGGAAGAATAAAGGGAGAACGAAGAGGAGGAAGAAAAA CAAGAAGGAAAGGGAAGGAAACAGAAAAGCAAGGAGGCAAAA
 A A G A G G A A G G A A C C G G G G G G G G A A A A A A G GAA A G A A A A G G A A
 G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG C C C C A A A A G G A A A A C C G GAAAAAAAAGGGGGGCCAAGAAA G G A A G G A A A A G G A A A A G G G GCCCCAAAAAGGGGGGGGAACAAACC G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGBAACC A A A A G GAA $A \operatorname{GGG} G C C G G C C A A G G A A G G G G G G G G A A C C A A C C G G$ AACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG G GAAGGAAGGAAAAGGCCAAAACCAAAACCTTAGAGAAAAAA CAA $A$ A A A A $\mathcal{A} G G G G G A A G G A A C C A A G G G G G G A C A A A A G C A A G G$ C C A GAGGGAAAAGGAACCAAGGACGAGGAAGGGGAGAAAC G G A A G G G A G G A A G G G G G G A G A G C C A G G G G GAC G A G A A G A G G G G G A A A A A A A G A A A ATTAAGGGGGAAGCAGATTAAAAAAAACCAA A A GAAAAAAACCAACCAAAAGGGGGGCAAGAAAAGAAACCGG G G G G A A T T G G A A A A A GCCGCAC GAAGGAAGTACAAAAG GATT A A A C A ACCAAAACAGAGGGGAAAGGGGACAGGAAAGCAGGAG AAAAGGGGAGGAGGAGCCGGGAAGGGAGGAGGAAAGCCGGCA A A G G G G A A G G G G A GAC G G A A A C A A A A A A A A G CAA G G G G A A A A G G TAAA A A GACAAATTAAAAGGGGAAAAAAAAACAAAGAAAA A GTACCCAGACACACAACCCGGCCGGAAGGAATTAAAAGGGG A A A A G G G G A A A A G G GAGAGGCCCCGGGGAGAGGGACAAAA G G G GAGCCAGAAGGAAAACAGGGGGGAGCCCCAAAGGACCAGAG G GAAACCGGGGCAAGGGGAGGAAAGGAGAGGGGGGGAAGGGG AAAAAAAACCAACCGGGGAAGAAAGATTGAGAAAGAAGAGAC A G G GAGCCAAAGGGGGGGGAAAGAAAAACAGGAAAAGGAGAA G G G A G A G G A A G GAAAA $A \operatorname{A} G A A A G A A A A A G A A A A A G A G A A G G G G$ $C \subset A G A A A G G A G G A A G G A A G G A A A A A G A C C A G G A A G G A A G G G G$ A A A A A A A G GAAGGGAACCGAAGAGAAGGGAAGAAAGAGAAAA A A G A G A A $\mathcal{A} G G A A A A C C G G G G G G C C A G G G G G G G A A A A A A A G E G$ AAGGGGAAGGACAGGGCAACCACCAGGGAAGGAAGGAAGGAC GAGGAAGGGACCAAAGATAAGGGGAAGAAAAAAGCCGGGGAG A A G A G A G A C G C A C C G G G G C C G G G G G G A A A G GA G A G G G A C C G G G G A A C A A A A G A A A A GAAACAGAAGGAAGGGCACAAAAGAACAC A G T A A C G G A GACA GAGCC GAAAGGGGACGAAACCGBAA G G GA $C \subset C A G G A A C C G G A A A G G G G G G G A A A A A T C C A A G G G G G G C A A A$

G G GATAAGGGCAAAGAGCAAGGGGAACCGACCGGAGGGAAGA G G G G A A C C G A C C G G G G G A A G G G G G G A GAAAC A C C C A A G G A A G G A A G G A A A G G G G G G G A A G G A A G G A A G G G G C C A A G G A A A G A G G G G GCCAAGGGGAAAGCCAAAACGAAAAACGAGACCAGGGGGGA GACCGAAAAACCCCGGAACCAAGGAAGGGGCCAAAAAAGAAA A A G G G G G GCC G G A A A A G G A A GAA A A CAGGCAGAAGGGGAGAA G G A A A A A A G G G A GAGAGGGGAAAAGGCAAGAGGGCAAAAAAA AAAAAAAGGAAAAAAAAAAAAAAACAGAGGGGAGGAGAAGAG G GAAGGCAGAAGAGGGAAGGCCAGAAAGAAAGAGAGACACAG GAAAGGGGAACCAGAAAGCCAAGGAAAAAAGGAAGGGGAAAA G G G G G GAAAAAAGGAAAACCAAGGGGCCGGGGGGCCCCAGAA C C G GAAAAAAAAAAGGCCAAGGAAGGGGAAAAAAGGGGAAGAG A A A A G G G G G G A A A A A A A A $G G G G G G A A G A C A G G C A A A A A G G A A$ A A G GAA A GAA $A$ A A A G GAA A A GACAAGGGGACGAGGAACA GAAA $C A C C A C A T C C C C C C G A A A G A A A G G A A G A A G A A G G G G A C A A G G$ G GAA $\operatorname{G}$ GAAAAGGAGGAGCGAAGAAAGGAGGACAAGGAAGAAA A A G GCAAGAGCCGACAGAGAAGAAGAGAGGGAGATTGAAGAG G GAA A GAA $A \operatorname{G} G \mathrm{G}$ GAAAAGGCAGGAAAAAAGGAAAAAAAAGGCA CCGGGGAAGAAGAAAAAGGGGGAAGAGGGACAAGGAAAGGGG AGCCGGGGGGGAGGGGCCAAAAAAGGCCGGCACCAACAAAAA A GAGAAAGGAGGGAAAAAGGAAGGCCGGAGGGACAAGGGAGG G G G G A GCAGGGCGGGAAGGGGGGGAAAAAGGGAAAAGAAC GA GAGGCCGGAGGGAGGGAGAGGGAGAAGGTTGGAAAAAGAAGA G G G G A A A G A G A A C C G G A A G G G A C A GAGGGAAGCCAAAAAA G G G G A A A G G G G A A A G A C A C A G G G G G G G G A A T T G A G A A G A A A A G A CAAACCAGGGAAAAAAGGGAAAAGGAAGGGAAGGGAGAGGGA $C \subset A A G G G G A G C A G G G A C A A G A A G G A A G A G G A A G G G G G G G G G A$ G GAGCCGAACAAGGAAAAAAAAGAGGGGGGCCCCAAGAAAAA G G G G G GC C A G G G G G G G G G G G G G G G A A G A C C G A G G A A C C A A G G GGGAGCAGAGAGGCGGAAAAAAAGGAGGAAGGCCGGGGAAGA ATAAAACCCCGGGGAGGGAAGGCCAAAAAAAACCAAGAATAG GAAAAAGGGGAAAAGGAAAAGGAACCGAGGGGAAGGGGGGGG GAGGTTCACGGGGGGGAACAAGGGCCGGAGAGAAGGGGAAGA $G G A C G A A A G A A G C G A G G G A A A G G G G G A A G G G A G A G A A A G A A G$
 G GAAAAAGAAGGGGGGGGGGGAACAGAACCAGAAAAAAAGGA AAAAAAGGACCAGAGGAACCACAACATTACGGCCGGGGAAGA GACAAGGGGGGAAGAGAGAAAAGGGGGGGGCCGAAAAAAGAA AAACAACAAGGGCAGAAAAAAAGGAAAAGAAAGGAGAGAGAA GAAAACGGCCAATTAAAAAAAAGCAAGAGGCGGGAAGGAAGA CAAACCGAACAAAGCCGGAAAAACAAGGCACCAAGAGGGGGG A ACCCAAAGGAACAGAGGGGAAAAGGAAGGCAGGAAAAGGCC AAGGAGACACGGGAAAGGGGGCAAGGGGAAAGGGGGAAAAGA G GCCGGGAAAGAGGGGGGAGGAGGAAGGGGCCAAAAG
GAGAACCAAAGGGAAGGGGCCGAGGAAGGAATACCGGAGGG CAAAAGAGAAAAGGAAAAAAAGCCGGGGGAAAGACCGGAAGA G G A G A A G A G G G G G G A A T T C C G A A G G A A G G A A T G A A A G GAAC C A A A A A A A A G G G GAAAGAGGGAAGGAGGAAGCAAAAAAAGGGG $C \subset A A G G G G C C G A G A C A G A C A G G A G G A A G C C A G A A A G A A A G C C$ G G A A A A A G A A A A A A C CAA G G G A A A GAGGAGAACCGGGCAGCC AACCCCCCGGAAGGACGGGGAAAGAGAAAAACCCAAAAAGAG $G G C C G A A A A A A G A G G A A G G G G C A A C G G G A T A A A G G G C A C C G G$ G G G G A A A A A A C C A A A A GAAA $A \operatorname{AGGGAGCAGGGGAGAGACAACC}$ G G GAGAGAAGAAAGAGAGAATTGGAAAAGGAAGGGGGGACA G G G A A A G G C A A A G G GAGGGGGAACCCCGAAGGAAGGAAGACGG C CAGGGACGGAACAAGGAAAAAGGGAAAACAAA GAAAGGGGG ACAGAGGGAGGGGGGGGGGGAGGAGGGAGCGGGGAAAAAGAG $A C G G C A G A G G C A A A A G A A A A A A A G G G G G G G G G A A G A G G A A A G$ G G GAGGGGAAACGGAAAGCCACGGACACGGGGAAACGGGGCA

GGCCGAACGAGAGAGGCCAAAGACGGAAAGAAAGGGGACAGB A G GACCGGGGCCAAAAGGGGGAGGACGGGGAAAACCAAAGAC $A C A A C A A A G G A A A A G G A C G G G G G G A A A A C C A G G A G G G G A A A A$ A GACGGAAGAAAAGGGAAAACCGGGGAAGGAAAAAGGGAAGG GAGGAGCCAAGGGGGAAAGAAAGGGGGAAGAAACGBAAAAAA

 $A G A G G G G G G G G G A A G G A A G A A A G G G G G G A A A C A G G A A A G G G A$ GAAACCTAGAGAGGCCAGAGAAGGAACGGGAAGAGGGGEGAA G GAAGGGGGGAAAAGGGGAAGGAGAAGGGGGGGGGAAGAGAA GAGGGGAAGGAGGGAAGGGACCGACCAAAAACAGGGAAGAAA GAGGAAAGAAAAAAAGAAAAGGTTAAGGAAAGAAAAAGAGAC C C G G A GA $\operatorname{CAAAAGGGGGGGAAGGAGGGGGAAGGAAGGGGAGAA}$ A G GAACAAGGGGAAGGAAAAAAGGCCAAAAAGAGGGAAGACC AAAAGAGGCCAGAAAAGGAAAAAGAAAGCAAAGGGGGGAATT G G G G G GAA A GAAATAACCAGGGAACCGAAAGGGAAGGAAAAG A A G G G G G G GAGGGGGAAACCCCAGGGCAAACCAAAAGAGAGG C C G GCA GACCAACCGGAACAGGCATTGAAGCCAAGCCCAAGA $G G A A A A A G A G A G G G A A G G G G C C G G A A G G G G A A G A A A G G A A A G$ ACAA A G G A C C G G A A G G G A G G G G G G A A A A A A C C G G G G A A G G G G AAAAGGGGGGAAGGAAGGAAAAGGAACCAAAAGGGGAAGAAA
 A ATTAAGGAAAAGGAAGGAAGGAAGGAAGGGGAAAAGGAGAA C C G GAAAAGGCCAAAACCAAGGAACCCCGGAAGGAACCAAAA C CAA $\operatorname{C} G \mathrm{~A} A \mathrm{~A} A A A A A G G G G A A A A G G G G G G G G G G A A G G A A C C G G$ AAGGAAAAGGGGGGGGAAGGGGAAGGGGAAAAGGAAGAAAAA A ATTAAGGCCCCAAAAGGCCGGGGCCGGCCAAGGGGCCAAAA AAGGGGGGAAGGAACCAACCGGAAAAAAAAAAAAAAAAAAAA G GCCACGAACGGGGGAAAAAAGACAAGAGGAGGGGATAAAGG C GAA $A \operatorname{GGG} G \mathrm{G} A \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{~A} A A A C A A G G G A C A G A G A A A A A A A G G G$ AAGGAAAACCCAGAGGAAGGAGGGAAGGAGGGGAAACCCCGG GGAGCAGAACAGCCCCGGAAGAGAAAAAAAAAAAGGAAGGGG G GAA A G GAGGCGAAAACCCGAAGGAGAAGGAAAGAGAAAAGA $A A C C G A A G G G A A G G G G G G G G G G G G A G A A G G A C A G A G G G A G A A$ G G GAA A A ACACAAAAAAAGGCCGGGAAAGAAATTGGGAAAAA G G G G A A G G A CA A G G GAAAGGCCGGCCAGAGACAAACCACAAAA A A GAGGAAAGGGGAGGAGGAAGGGGGAATTGGAACAAAAAAG ACGGAAAAAGGGTTGGCCGGAAAAAAAAAAGGAATTACAAGA A A G G A A G G G A G GAA $A \operatorname{A} A A G G C C C C A A C C G G G G G G A A A A G G G A$ CAAAAGAAAGGGGAAAAACCGGCCAGAAGAAAAAGGCAAAAA T TAAAAGGCAAGCCAACAGAGGCCGAGGGAAGGGGAGCACGB A T A A G G G A A A A G A C G G G G G G G G G G G A G G G G A C G A A A A A G G A A AAGAAGAGGAGAAAAAAAAAGAGGAAGAAGGGACGGGAGGAA A A C C G GAA A G A G G G G G G G G G C C A A A A A A A A G GC C A A G G G A G G A A GAAACCGGAAAAAACAAGAGAGGGAGGGCGAGGGCCACAA G G GAA $A \operatorname{AACC} C A A G G G G A A A A A A A A A A A G A A G G A A A G G G G A G G$ AAAAGAGGGAAAAGAAAAAGATAGGGAAAAGGAGAAGGAGAA AAAGAAGGAGACAGCCGGGGAAGGAAGGGAGAGAAAAGGGAA G G GAAAACGGCCAAAACCCCCCGGCCACAGCCGGAGAAGGAAA G GCCAGGAGGAAAAAGAGGGAAGGAGAGAAGGAGBACCGGAA

 A A A $\operatorname{A} G A A A G G G G G G G G G G G G A A G G G G A A G G G A A G A A A A G A A G$ G G GAA A ACCGGGGGAGGGAGCCAAGGGGAAAAAACCTTAAGAG G GAACCGAGGGAGGGGAAAAAAGGAAGGAACAAGGGGGAAAG $A G G G G G G G A A A A G G G G T T G A G G A A A A G G A A G G G G A G G G C C B G$ A A G G G GAA A G A A G GAAA A G G GA A G G G G GAAA A $\mathcal{A} G G G G G A G A G A$
 $A A G G A A G G G A G G G G A A G G A G G G G G G G A A C G A C G G G G G G A G G A$

AAAAGGGGCCAAGAAGGGAAGGGAGGGGAAATCCAAAAGGAA A A A GCACGGGAGGGAAAGAGAGCAGGAAGGAAGGAAGGGGGA A GACGAGGAAGAAAAAAAAAAGACGGAAGAGGGACAGAAAAC G GAGGGAAAGAGAAAAGGAAGGGGAAAGAGAAAACCGAAGAA G G GAGGAGGGAAGGGGCAAGAGAAGGAGGGGAAAAGCAGGGA A GAA $A \operatorname{GAA} G \operatorname{A} A A G G A A G A A G A A G G T A A G A C G G C X A A G G G G G A$ A A A G A A A G G G A A G G G G A A A A C C G G GAGCGGCAA GAAA GAA G G G G G A TAGAGGCCGAGAGGAAAGGAAAGGAAGGCACCATAAGBG A A A A A ACCGGAAGGGGAAGAACCCAGAGGGCAAGAAGCAGAC AAAAGGAAAAGGGGAGGGGGGGAAAACAAAGAGAAAGGAGAA A A A G G A G A A A A G G A G G G G G G G G G A A G GACCCC GCACCCAA GA AC GAAACGGAGAAAAGCCGGGGCCAAGGAAGGGGGGGGAGAA T T G G G G G A G G A A A G G G A GAGGGCCACAAAAAGGAACAA G GAA C C G G G G A A G G C C A A A A A A C C G G G G G G G G A A A CAAAAAAAAAA A GATAAAC GAAAAGGAGGAAGGGGAAAAGGAAGGAAGGGGCC A A A A A A T TAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} G A A A A A A A G G A A G G G G G G G G G G$
 A G G G G A G G G G G G A A G G A A A A A A A A G G GA G G C C A G G G A A G G G G AAAAGGCAGAAGAGGGAGGGAAGGGAGAAGAGGGAAGGAGAC AACCGGAGCAAGAAAAAAGAAGGGAGGGGGAGAAGGCAAAAA
 G G G GAA A ACAA A G G GAGGGGGACCGGAAGGAAGAGGCAAAAG A A C C A GA G A G GAAAAGCCGGAAAAGGGGAAGGAGAAAAAAAA $G G A A A A C A G A A G A A C C A G G G C C G G G G A G G C G A G G G G A C A A G G$ A G A A G GA $\operatorname{A} G \mathrm{G}$ GAAAAGGAGAGAAAAAACCGGCCAAAAGGAAGG G G G GAAAAGGGGAAGGGGAAAAGGCCGGAAAAGGAGAAAAGG GAGGAGGGGGGGAAAAAAAAGGCAGGAGACGGAGAACAAAAAA AAAGGAGGCAAGAAAGACAGCCAAAGGAGGCCAACCAAGAGA AACCGGGCACGGAAGAAGGGAGCAAAGAAGGAGAAGGAAAAAA G GAACCACAGAGAAAAAAGGAAGGGGAAGAAGACAAGGAGAA
 G GAGAGAAAGAAGGAAGGAAGGAAGGGGAAAAAGAAAA GAAA G G G G G G GAGGAAAACCAACCGGACAGACAAAAGAGGGCACBG AAAAAAGGAGGAAAAGAGAAAAAAGGCCAAAGGGAACCAGAG A A A G G A A G G G G C A G A G C C G G A C A A G G G G G G A G G G A A G G G G G G CAA $A$ A A $\operatorname{A} A A C G G A G A G G A G G A G G G C C A G A A A A G G G G A A G G G G$ A G GA GAAAAAA AAGGAAAATGGAAGAAGAAGAGAGAAAGGGG
 A GAA A G GAGGCAGGGAAAGGGAAAAAGGAGAAAGCAAAAGAA GACC $C$ GAAAA $A \operatorname{A} A \operatorname{A} A A G G G G G G G G G C A A G A A G A C C G G C C G G C C$ G GACGGGAGGGGCCAAAAGGAAGGGGGGAACCAAACCCGGGG A A A A C C G G G G G A A G A A A G G G A A G G G G A G A A G A GA G G C A A G C A A GGCAAAATTAAAACGGGCACCAAAAGGAGAAAAGGGACCGG GAACAGACGAAGGGGGGGAGGGGGCCACCCACAGGGA
G G A G G A A G G C C A A G G G G G G G G G A G G A A G G A A G G A A A G A G G G CAGGGGGGAAACGGGAAGGAGGGGAGAGCCAGGGCCABAGAA
 A A A A G G G G G A A A A G G G C C G G A G G A G G G G A A G G A A A G G G G G G G GAAAAAGAAAGAGGGGGGACCCAGAGAGGGGAAACCAGAAAAA A GAGAGAGAACCGAACGGAGTAGGGGAAACAAGAAACCAABA
 A GAGGAAGCAGAAAAAAAGGGGAAAGGGGAGAGGGAGACCBG GAAACCGGGGAAGGAAAAGGGGAGGGAGAGAAGGAAGAAACC G GAGGAAGGAAAAAAAAGCCAAACAGAAAAAGCAGGCCGAAG $A G A G A G A A G G A G G G G G G A G G G G G G A C A G A G G A G A G G G C A G A A$ A G A G G A G G G A G A A A G G A A C C G G C C G G A A A A A A GA G G G G GAC C G G A A A G A G T T G G A C G G G G G G G G G A A A G G A A C C A A A A G A A G G G G G G GAAAAGGAGAAGGGCAGCCAAGGGACAAAGGCCGGACAA AAGACAAAGGAGAAGGGGAAAAGGAAGGAAGGACCAGGAAAG

GAAGAAGGAAAAAGAGAGCAAAGGCCAAGGGGAAGGAGAAAA GGCCAAGGGGAAAAGAAAAGAAAAGGGACAGGAGGGAACAAA G GCCAGGGAAAGCCAGGGAAAAGAGAGGACGAAGCAAAAGAA A A A A G G G G GAAAAAAAGGAAGGTTGGAGACCCAAGGGAGAGA CAAAAAGGGGGGGGAAGGGGAAGAAAGAAAGGCCGGAAAGAG A A G GAAAAGGAAAACAAGACAAGGAAAGGGAAGAAAGGCGGA C C C C A C C C G G G GAAAAAAAGGAAAAAAGGGGAGATAGCCAACC $G G C C A A A A A G G G G G A A A G G G G G A A A A G G A A G A G G A A A A A G G A$ G G A G A G A A A A A A A G G G G G A G G A A A A A A A G G G G A GA G A G T T A A $C \subset G A C A A A G G A C A A A G A A A G A G G G A A G G A G G G C C G G C C A A G A$ C C A G A GAGGGAGAGAGGAGAGAGGCAAACATAGAAAGAGGGG G G G GAA A A G GAAACGGAAGGCCGGCCAAAAAAGGAAGGAAAA A A A A G A A A A G G G G A A A A A A A G GCCAGAGGGGGGGAAACAGAA C C GAGAACAGATAGCAAGGGAACCCCGGGGCCCCAACCAGGG AACGAGGAAAGGAAGGGGAAGGAAAAAAAAATCCGGAAGAAA AAAAAAGGGGGGGGCCAAGAGGCCAGAGCAAAAAAGAACACA C CAAAAGACCAGAGAGAAGGCAAAAAGGAACCGGGGGGAAAA A A G G G G G G G G A A A A G G G GAACAAAAAAAGGAGGGGGAAAAAA AAAAAAAAAAGGGGAAAAAAGAGGCAGAAACCAAGGGGCCGG A A A A A A G G A A G G G G A A A A $\mathcal{A} G G G A A A G G G G A G G G A G G G A A G A A A$ G GAAGAAGACCAAAAGGGTTGGACAAGGAAAACCCCAGBAAA AAACAAGGCCAAAGACCCGGAGAACCAGCCAAAGAGAAGGAA A A G A G G G G G G G G G G G G G G A GAGATAAAAA A A A A A G C CA G G G G A G G G GCAA $\operatorname{CA} A A A G A G G A G G A A A A G G G G G G G A G G G A G G A A G G A A$ G G G G G A C A G G G GA G G G A GAAAAAAA $A \operatorname{A} A A G G G G G C A A A G G A G G A$ $C C G G C C G G G A A A C A C C A C G G G G G G A A G C A G A G G G A A C A A G G G$ G GAGAGCGAGAAGAGACCAAAGAGGGAAAAAGGAAGAA G GAAA AAAGCCGGAAGGGGAAAAAAGGGGGGAACCGGAAAGAGAAAG A GAGCCC G G A A A T T G A A G G A G G G G G G A G G G A A GA G G A A G G G A A GAGACAGAAAGGGAAGGGGAAGGAAGAGGGGAGAGGAGGAA
 A GCAACGGAGGAGGACAACAACAAAAAGAAAAGGACAAAAGG A A G GAAAGAGAAGGCCGGACGGACAAGGAGAGGGACGGAGAA A A GACAAAAGAGGGAGAGGGAAGGAAGGGGGGAGAAAAAGGG G G G GAGAAAACCAAGGGAAGGGAAAAGGAAGGGACCGGAGAG $G G A A A C G A A A A G G G G G A G A A A C A A G G G G C C G A G G A G A G A G A B$ GAGGAACCAAAACCAGGGTTAAAACCGGGGGAGGGAGAACAA GAGGCCGGAGAAACAAAAGGGAGAAGAAAGCAGAAGGGAGAA GAAACAGAGAGGAAAGGAGGAACAGAAAGGACGAAGGGAAAG GGCCGACCAAGGGACAAAAAAAGAAAAAAGGACCGGGGAAAA GAGGAGGAGGAGCCGGGGGAGGGGAACCCAGGAAACGAGAGG A A T T G GCCGGGGGGAAGAAAAGCCGGGGAAGGAACCAAAAAA AGGGAGAAGAAAAAAACCGGAGCCAAGGAAGGAAAATACACC GAGGGGAGAGGAGGAAGGGGAAGGCCGAAGAGAAGGGAAAAA AACAGACCAAGGAAAAAGAAAAAGAGGGGGAAAGGGGAACAAA G GAGGGACGGGGAAAGAAACAGGGGGAGACGAGACCAGAAAG G G GAGAGAGGAGGGCAAGGGGAGGCCAAACGAGAAGCGAGAG AGACAACAGAAAAGAAAAGGGAAGGGAGAATTCAGAAAAAAA A G G GAA $A \operatorname{GAAA} A A A G A A G G A A G A G G G C C A G G G A A A G C G A G A A$ A G G GCAACAAGGAGAGGGGGGGAAAAGAGAAGAAGGGAAAAG G G G G A A A A A A A A C CAA A G GACCAAGAGAGGAGGGAAAA GAAC GAGGGGCAGAGAAGGGGGAGAAACGAACGGAAAGACAGAAAA G G G GCCCCAGAGAGAAACAGAGGAAGGGGAAGCCGAAAAAGG A GACGGGAAGAACCGGGGGGCCAAGGGGAAGGGGAAGGAAAA
 GAGGGGGAACAAGGGGAGAAGGAAGGAAGAAGGAAGAAAAAA
 $A A C C A G C A G A A G G G A G G G A C G G A A G A G A A G G G G G A A A G A A G A$ GAAGCAGAAAGGAAGAGGGGGGCCGGAAAAAGGGAAAAAAGA

G G G G G GAAA A A G GA GAAAGGAAGGAAGGAGAAGGGGAAGGGG A A A A A GAA A A G G G G C C G A G G G G G G A A G G G G G A A A A A G G A G A A G G G GAAAAAAGAGAGACCAGAAGGACGGGGGGGAGAAGAAAA GACAAAGGCCGGCAGGAAAAAAAAAAAAAAGGGGAAAAAAGA G GCCGGAAAAGGGGAAGGGGAAGGGGAAGGGGAAGAAAAAGA A A A A A A G G A A A A A A G GAAA A G G G GCCGGAAGGAAAAAAGGGG G GAA A GAA $A \operatorname{A} A A \operatorname{A} G A A G G C C G G A A G G G G A A A A A A A A A A A A A A$ $G G A A A A A A A A G G G G G G G G A A G G A A A A A A G G C C C C C A G G A C A A$ AAGGAGCCAAGAAGGAAAGAACGGAAAGCAAGAAAGAACACC AAGGAAAAGGAAGGGAGGAAGGAAAGAAGGAAGGGAAAAGAG G G G GAAAGGGAGGAAGGAACAACCAAAAGGAAGGAAAGAAAG GAAAAGCCCCCAAGGAGGGGGGAGCAAAAGAAAAAAGAAAAC A A G G G GAGCCAGAACCGGAGACGACCGAAGAGGGAAAGGGGG A A G G A A $\operatorname{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} G A A A A A G G G G C A A A G G G G A G A A G G G G A A A A$ A GAA A A GAAAATGGGGAAGGAAGGGGAGGAAAAAGACAAAAG $C C G A G G A A G G G A C C G G G G C C G A G A A A G G A A A G G G A G G G A A A A$ G G G GAAAGCCGACCAAAGAAAGACGAGGACAGAAAAGGAAGAG G G G G A G T T G G A GCCAGAGAACCGGCAACGGGACCAAAGGGCA G GAGGAGAAGCCAGAGCCGAAGGGACGAAGCAAGAGACBGAG GAGGGACCAAGGAGAAAGGAACGAAACAACCCAAAGCCAAAA GGGAGAGGACGGAAGGAAAAGGAGAAGGAGAGAAGAGAAGGG A A A GAA A GAGGGGGCAGAGGGGAGAAAGCCAGGACACCAGAA A A A A A G A A A A A GAAA A A G A A A A A G G G GAGGAGGGA GAGAGAA A A G G A A A G G GCCGGGAGGGAAAGAAGGGGGAGCCBAGAAAAA GAGGCCGGAGGAGGACGAGGCCACGGGGAAGGGGAAAAAGGA G GAAACAGACAAGAAGGGGGGGAAAGGAGAGAACACAAAAAA A GAGGGGGAGGGAGGGGGAAGGAAGACCCAAAGACAAGGGCC A C G G A A G G G G G G G G C C A A G G C A G A G G G A G A A A A A G GA G G G A C GAAAGACAGGAAGGGGAAAGAAGAAAAGGGGGGGGAGAGAGA AAAAAGAGCAACGGAAGGGGAGAAACAGGAAAAGACAAGGAG AA GAA ACCAC GAGGGGACAGGAAGAAACGGAAGGGGAGAACC AAGGAGGGAGGAAGAGGGAGAGAAAAAAGGAAGAAAAAGGAA CA $A \operatorname{GA} A A G G G G G A A A G G G G G A G G A A A G G A A G G G G A A A C A A G G$ A A A A T A G G G G A A G G G G C A A G G A A A A A A A A G G G A G G G G G A A A $G$ G G G A A G G G A G A A A G A G G G G A G G A GAAAAGGCACAGAAA GAC C ACAAGAAGGAAAGGAAAAAACCAGGGAAAAAGAAGGGGCCAA A A GAAAAACAGGCCAAGAAAGGGAAAAAAGAACCAACAAACC GA $A \operatorname{GA} A G A G G G G A G A A G G A A G G C A G G A A G G G G G G A A A A G A A C$ A A C A C A A C A A G GA G G G A A A A G G A A C C G GAGAGAGAAAA G G G A
 AAGGGGGGAAAACCGGAGAGAGGGAAAAAAAAGAGGCAAAAA G G G G A A A A C A A A A A GAACAAGAGAGAAGGACAA GAAAGAAGA AAAAGGCAGGAAAGAAAAGGAAGAGAAACAAGACGGGGAGTT G GAA A A G G G GAAAAAGAAGGGGGAGGGGGGAACAAGA
 A ACCCCAAGGCCCCAGGGCCAGGGGAAGGAAGGGGGGGGGGG
 AAAGAAAAGACAAACCAAGGAAAAAAGGAAACAGAAAAGAGG GAAAAAGGGGGGGAAAAAAAGAAAAGCCAAAGCCGAGBAACC A A A A G GAAA A G GA $A \operatorname{AGAAAGAAAGGGGGGGAACGAGAAGACAA}$ A A GAA A A A A A G G G G GAGAGGGGAGGAGGAAGGGAGGCAGA GA ATAGAAGGAAAAGGAAAAGGAAAAGAAGAGGAACAAAAAACC G G G G A A G G G G G G A A A A $\mathcal{A} G A A G G C C G G G G G G A A G G A A G G G G G G$ G G G G G G G G G GCCGGGGGGGGAAAAGGAGCCGGAGAGAGAAAA A A G GAGGGAAAAGAGGCCGGAAGACAGGCCGGGGGGAGAAAA A A G G A G G G G G G G G G G G A A A C GAC C G G A A A A G GAC G GA GAAAA G GAGCCAAGGGGAAGGGGCCGAGAAGGGGGAGAAGAAAAACC A A G G G A A G G A G A A GAAAAA A GAAAAAAGGGAAACCGAAAAAA AAGGACCCGGGGAAGGAGCCAGGAAGAGAAAGGGGAAAAAGG

ACAGAAACGGAGGAAAAAAAAGGGAGAGAGAAGGGGAAAAAC CCAGAGAGAAAAAGCAGGCCAAAAAAAAGGGGAAAAAGAAAA
 G G G G GA A A A A G G G GAAGGCCGGCCAAAAGGCAGAGGCAAACA AAACGAAAGGAAAGGAGGGGGGGACCAGAACCGGGAAGAGCC A A A A ACGGAAAACCAGAAGGAAAAAGGGGGACAAGGAAACAG AACAGGCCGGCCCCCCAGCAGGGGGGAAGAGAAAAAAAAAGA GAGAAAAGAGACAAGGCCAAGGAAAGGAAGAGGGAAAAGAAA
 G GAAGGAAGAGGAGGAGGAGCAGGGGAAAAAGGGGAAGAAGA C C T T G GAGAAAGGGAAGGGGGGCCAAAAGGAAACCCGGAGGG AACAGGGACCACGGGGGGAAGAAAGGGGAAAGGGAAGGGGGG G GCCCCCAGGGAGGGGCAGAAACCGGAACCAAGGGAGGAGAA AGGAGGGGAAAAAAGGGGGAAAGGAAAAGGAAAAAAAAAAAA AA $\operatorname{A} G \mathrm{G}$ GAAACAGAGAGAAAGGGAGACGGGGAAAAAAGACCBA A GAAGAGGAAGGGGGGAGAGAACCAGAAACGAAGGAAAAAAG
 GAGGGGAAAAGGAACCAAGGTTGGGGGGAGAAAAAAAAGGEG GAAACAAGGGACGAAACCGGGGCCAAAACCCAGGAAAGAGAA GAGGAACAAGGGGGAAAAAAAAAGGGAGGGGGGGAAAGAGAA AAAAGGAAGGCCCCGGGGGGGAGAGGAAGAGGGGGAGAAGAG


 A A A A G GAAAGAGAATTCCGGTTAGACCAAGCGGGAAGAGAAA C CAAAAAAGGGGGAGGCCAAAAGGAAGGAGAGGAAACAAAGA
 A A GACCGGAGGAAAAGGGAAGAAGGAGAGGGGAAAACCACCC G GAAGGAAGGAAAACCCAGGAAAAGGGAAAGGATAAGACCTT AAGGAAAGAAAACCACGGGGAAGGAAGGTTAAAAAACCBGAA G G A A A A G GCC G GAAAAAACCCCAACCGGGGAACAGAAGAGAA AAAAGGAGAGGAGAGAGGAAGGAGAAGGGACAGAGGAGAAGA C C G G G A G G GAGGAAAAGGGGAAAAGGCCGGAAACACAAAAAG ACAAAGACAAAACCAACCGGGGAAGGAGAACCAAGGGGGGCC $A G G G C A A G G A A G C A G G A G A A A A A A G G G A G A G G A A A G A G G G A G$ ACAACCGGGGGGACATGGAGAACACGCCAAAAGGAAAAAAAG GAGGGGCAGAAAGGGAGGCAACAAGAGGGGATGGGAAGGGGG G GAAAAGGAAAAGGAGAGACCCAAGGCAGAGGAGCAGAAGAG G GAA A A A A A A G GAA A GAGGGAAAAGGGAGACCCCGGCAAAAA A A A A G GAA A A G GAACCAAAGGGAGGGCCGGACCABAAACCGG AAAAAAGGAACCGGCCAAGGAGAAAGGAGGGAGAGGGGGGCG GACAGGGGAAAAGACAAGGAAGACGCCAAGGAAAGAAAGGAA C CACAAAAAAAACCGGGGGGAAAAGGACCAAGGAAGAAAGAA A A G G G G G G A A A G A A G G A A G GAGAAGAAGAAGAGGAGAAACAC GACGTAAAGGCCGGAAGAGGGGAGGGAGGAGGAAAGAGAGAG G G G G A GAAAACCGGGAAGGGAAGGAAGAGGGGGGGGAAGAAA C C G G A A A A A A A A G G A A A A G G G G G G G GAA G GAAA A G A G G G G A A G GAAAAAGGAGGGGGGGGGGGAAGAAGGTTGGAGCCGGAGAA
 A A G G G G G G GAAAGGCAAAAAGAAGAGAGGAGGAAAAGAAGAA A A G G G G G GCC G A A GAAA A A A A A G GAAAA A G G GCC G GA G G GCC AA $\operatorname{A} G A A G G C A G G A A A G C A A A C A A A A A A A A A C C B A G G A G G G G G$ A G A A G G G G G G G G A A A G C C G A C C G G A GAA $A \operatorname{AGGGGGA} A G A G G A A$ ACCGGGAAAAAGGAAAAACCGGGGAAGGGGCAAGACAAGAAA GACCGGAACCAAGGAAGAACCACCGGAAAAGGGAGACCCCAC GAAGAAAACCAAGGGGGGAAGGGAACGAGAGGCCAGAAAGGG AA $A \operatorname{GACA} A \mathrm{~A} \boldsymbol{A} \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A A G G G G A A A G G A G G A A A G G A A A A A$ G GAA A G G G A A G G A G A G A A A A G G G G C C G G G A GA G G G G A A A G G G $G A C C G G G G G G A A G A A C A A G G C A A G C A G A A G G G G G C C G G G G A G$

GAGGGGGAAAGCAAACAGAAAAGGGGCAGGAGGAGAAAACGG $A G G G G G G A G G G G A A G G A A G G A A A A G G G A A G A A A A G G A A C C C C$ G G G G G G G G G G A G A A A G G G G G G A G G A GAGCACCGAAAC A A A G G $C \subset G G C C A G A C A A A A C C G G G G G G A A G A A G C C G A G G A G A G A A A A$ GAAGAAACAGAAAGAAAACCAGAAGGACGGGAGAGAAGAAAA
 A G A A A G G GCCTAGAACAGGGGGAAGAAACCAAGGGGGGAGAA G G G GAA A A C G G GAC G GAGGAAGGGAGGGGGAGCCGGGGAGAA G G A A C A G A A A A A G G C G A G A G G G A A A A A G A CA G G GAAA G G C A C $A G C C G G A G G G G G C C A A A A A A A G A G A G G G G A G G A A A G A G G G G G$ G GAGAGGAGAAAGGACGAAGAAAAGGACAAGAAAAAGAGGAG $A G A A G G G G G G G G G G G G A A A A A A A G G G A A A A A G G A A A C A G G A G$ GAAGAAGGGAGGAGAAGGAAGGGGGGAAGGGAGGCCAGAAAG G G G A C C G G A A G G G C C A G A G G G G A C A GACAGAGAACAAA G G C C A GAAGAGGAAAAAAGGGGAGAAGAAAAACCGGGAGAAGAACC AAAAGGAAGAAGAGAAAACCGGAAGGGGAAAAAAAAAAGGAA
 A A A A A C G G G G A GCCTTGGAATTCCAAGAAGAGGACGCAAGAC G G CAG GAAAAAAGGGAAGGTXAAAACGGAGAAGGGAGAACA
 G GAGAGAAGAAGGAAAACACAGGAAAGGAAAAGGAGGGAAAA A G G GAA A G G GCCCCGGGAGGAGAAGAAAGGAAGGCCGGGGCC C CAAACAAGGAAGGAAAGCCCCAGAAGAGAGAAAGGGGAA G G A A G G G A A G A A C C A G GCCCAAGGGGAAAAAAGGGGGGA GAGGG GAAGGGGAGGAAAAGGACGAGGAAAAGGGACCAAGAAGCCGG AAAGCACAGGGGAAGGACCCGACCGGAAGGGGGGAAAAAACC G G A T T TAGAAGAGGGGGGAGGCAAGAGGGGAAAACCAGAAAA C C G G G GAACCGGGGAGAAGGGAGAAAACGGAACCAAAAAACA AA A GAGAAAAGGGGAAGGAAGGAAAAAAGGAACCGAAAAAAA AAGGAAAAGGCAGAGAAGAGAAGGGGGGAAAACCGAAAAAGG A G A G A A A A C C G A A G A G A A C A A A A A G G A G G A C A A A A G A G A A G G G GA GAAAAA A TA A GAGAGGGAAGAAAGGGAAGGAAAAAGGGA G GAGAGGGAGGGCCAGGGGAAGAAAGAAGAAAAAACGGAGGA G G G A A G A A A C A C G G G G G G G G A A A GAGGGGGGGGGAAAAAAGA A ACAAAGGGGGACCGGAGAACACAAGGAGGGAGGGACAAAAA G G G G G G A G G G G G A A G A A G G G G A A C G A GAA $A$ A A A G G G G G A A A A $G$ GAACGAACGAAAGAGGAGAAAGGGAAGGGGAACCAGAAAAAG A GAGGGAAGGAAAAAAGAGGGGAGGAAAAAACAA GAGAAGGG A GCC G G A A G G A G A G GAGGTTAACCAGGGACGAAGCCA GAGAA
 G GAGAACAGAGGAAAAAAGGGGCCAAAAAGAGGGGAGAAAAB
 G G G GAGAGGAAAAAGGAAAGAGGGAAAGGAGGAAAACCACAA A ACCGGAAGGCCCCAGAAAAAACCAAGGGAGAGAGGG
G G GCCAAAAGGAGAGAAAGCCAAAAAAAACCGGAAAAGGCC G G G G G G C A A A A A G G G G A A A GACAGAAGAGGCAAAAAGAGGAC A A G G A G G G G G A A G G A A G G G G A A G G G A G G A A A G G G G G A A G G A A AAAGGGAAAGGAAAAGATGAAAAGAGCCGGAGAGGAAAGGGA A GCAGGGGGAAACCGAGAAAGGAAAAAAGGGAAACAGGATAG G G GAGGGGCCAGAACAAAAACCGGACCAAAGAGAAGGGAAAA G G G G A G C A G G A A G G A G G G A A G G G A G G G A G G G G C C G G G A A A G G GAAGAGAAAAAAAGGGAAAGATGGAAGGGGAGAAAAAGAAAA A G A A A A A A G G A GCAAAGGAAGGAGCCGGGGAACAAAAAAAGG G GAAAAAGCCAGAGGGGGGAGGAAAACCAACAACAAGGAGAA A A A A G G G G A A G G G G A A A A G G G A G G G GC C A A G G A G A G A G A A G G

 GAAAGGAACCAAGGGGAGGGTTAACGAAAGAAGAAAACAAAG A GAGAGAAGAAGAGAAAAAAAGGAAGAAGGGAAAAAACAAAA

G GAA A GAAAGGGGGGGCAGAGGGGGACAAGCAGACCGGGGGG C C C C A A A G G G G GACAGGGGAAGAAAGAGGAGGAACCGGCCA G ACAGAACCAAGGGGCAGAGGGGAAGAAGAAGGAGAGAATXAA AA $A G G G C C A A G G G G C C G G G G G G C C G G C A A G A A A A A G A A C C A G$
 G GAGAAAAGAAAAGAAGCAAAGCACACAAGAGGGGAAAAAAG G G A A A A G G G GCCGGAATTAAAAAAAAGAAGAACCAGCA GA GA CAAAAAGGAAGGCAGAGGGAAAGGACAAAGAAGAGAACGCGG GAAACCGGGGCCAAAAGGAACCCCAAAACCGGCCCCGGGGGG G GAAGGCCAAGGAAGGGGCCAAGGAAGGAGAGAGGAAAGGCC GAA A G GAAAAGACCGGGGAAGGGAGAAGCCGGAGGGCCAAGA C C G G G A A A G G A GAA A A G G C C G G GA GAC CAAA A G G G G G G G G A A $G C \subset A A G G A C C C C A A A C G G G A A A A A A G G G G G G A G G G G A A G G G G$ GAAACAGAGGAGGGGAAGCAAAAAAACGGGAAAAGGGGAAGAG AAAAAGAAAAGAACGAAAGAGCGGGGAAAAGGGGGGGAAAAA G G G G G GCC G G G G G G A A A G G G G A A A G G G GAGGGGGGGAAAA G G
 G G A A G G G G G G G G C A G G G A A A G A A G A A GAAAA A A G G G G G G G T T AAAGACAGAAAGGGGGAAGGAAGGAAAGGGCCAAAAAAGGAA A A A G G G G A A A A GAA $A$ AAAGGGGAAAAGAAGGAAAGGAAAAA GA GAACACGAAAAAAGAAAACCCCGAGGCCAAGGTTAAAAGAGA GAACAGAAGGAACAAAAAGGAAAAGGAAGGAGAAAGGAAAAG AAACAGGGACCAGAAAAAGGAAGGAAAAGGAGGAGAAAAAGBG G G G G G G G G G G C A G C G A A A A A G G C A C G A G G G GAAAA A G G G A G G A G GAA $A \operatorname{GGG} \operatorname{GA} A A G G A A A A G A A A G A A G G A A C A C C G G C C A A A A G G$ G G GAAAAAAAAAGGCCGCCAAAAGGGAGAAGGAGGAGAGAC AACCAACCGGAGGGGAAACGGGACAGGGGGAAGGGGCGAGGG G GAGACGGGGAGAAAGGGGGAAGGGGAAAAAAGGAA GGGGGA A GAG $\operatorname{G}$ GAAACAAAAGAAAGAAGAGAGCCGAGGGGGGGGGGGG G G G GAACAAAGAAGGAGGCAAAGGGAAGGAAGAAAAAAAAAA G G G G A A A A A C C C A A GAAAAAAAAACCGAACAGAGGAGGAAGA GAGGGAGGAACAAAAACCAAAAGGAAGGGGGGGGAGGGAGAA
 A A G G A A G G A A G A G G G A A C G A GAA $A \operatorname{AGAAGGGGGAGAGCCGGCC}$ A A G G A A G G A A G G G A G G A A G A A G G G G G CAAAAAAAA G G GAAAA A $A G A C G A A G A A G G A A G G G G A A G G G G C C G G G G A C G A G A A A G G G A$ G GAGGGAAGGGGGGGACAAGAGAGAAAAAAAG
 A A A GAACCCCCCGAGGAGAAAAAGGAAGGAAGCCBAAAGGAA C C G A G A A G G G G A G G G G G A C C A G A G GA G G C C G G G G C C G G G G A A A GCCAAAGGAGGAGGAAAGGGGAAAGACGGGGAAAGAAGGAA
 C C A A A C G GCCAA A G GAGAAGGGGAAAAGGGGGAAGGACA G GA G G A G G A G G A G G G A G G G G G G G G G A A G G G G G C G G A T A G G A A G G A G G GAGAGGAACCAAAAAAAAAAAACCGGGGGGCAGAAAAGAA A A A A A A G A A G G G G G G G A G G A G G A A G G A A G G C C G G A GA G G G A G
 GAGGAACCGGCAACCCAGGGAAGGGGTTGGAAGAGGATAAGG AA $\operatorname{A} G \mathrm{G}$ GAAGGAACCAAGGAAAAAAAATTCCGGGGCCAGAGAA A A G G A A G G A A G GAA $A \operatorname{G} G A A A A G G G A A A A G G G C A A A A C A G A A G A$ A GAAA A A A A G GAA $A \operatorname{A} G \mathrm{G} C A A A G G A G A C G G G G G G A A C A A C A G A A$ GAAACCGAAAAAAAGGCAGGGGGACAGGGAAAAAGGGGGGGG G G G A A A A A G G A A C C G A GAAGGGGAAGCCAGAAGGAAAAAAAG G GAGAAAAGGAAAAGGGGGGAACCAAGGAAAAAAGGGACAAA G G G G G GAGCACCCCGGAGGGGGGGGGGGGGAAAAAGAAGAAA A A G A G A C A G G A A A G G GCCAAGGGAAGGGCCGGATGGGAAAAC G G A A A A A C G A G A A A C A A A A A G GAACATAAGCC GAAAG GA GA G G G G A A A A G A A A A A C C C G G G G A A A G A A C C G G G G A A G G G G C C A G $A \subset A A G G C \subset A G C A C A A A G G G A A A A A G A A C G G A A A A C C G G A A A A$

G GAA A G GAAAGGAGGGGAGAGGGGAAGGGAGGGGAGAAGAGC
 $G C A A A A A A G G G G G A G G A G G G C C A G G G A A G G A A G G A A A A A A A A$ AAGGAAAGAACAGGAGAGAGCACAACGAGACAGAAAGAGAGG AA G G GAGGAAAACCAGGAAAGGAAACAGAAGAACGAGAAAA G

 AACCCCAACAAAAAGGGAAGGAAGGAACAAAAACGGGGGGGG
 G G G G G GAAAACCAAGGAAAAAAGGGGAGAAAAGGCCAAAGAG A A G G G A C A GAAAAGGGGAAAACAGGGGGCCAAAAGAAAAAAA G G G G G A G G G G A A G G G G CAA A A GAGCCATAGCAAAAGAAAACA A A G G G GAA A A A A GAAA A G G GAAAGCAGAGGAAGGGGA GAAAA AAAAAAGGCCGAAGAGAGCAGAAACCAGAGAAAAACAGAGAG GACGAGACAGCCAAGGGGCCAGAGCAAGAAGGCCAGACAAAA GAAACCGGAAGGAAGGAAAAAAAACCAGAAAAAAGGGGCAAA G GAGGGATAAGGAGGGAAAAGGGAGGGGGAGGGAGAAAAAAA
 AAGGGGGAGGAAAAAAGGAAAAAAAGGAACAGCCAGGAAAAG G G G A A G G G A G A G G G GACCGGGGGGAAGGGAGACAAAGACAAC G GAAAGGGAGCCGGAGCCAAAAAAGGGGGGGGAGTAGGAGCC GGCCAAAAAAGGAACCCAGGAGAGAGCCGAGGGGAGGGAAAA AACCGGAAAGAGAAAAAGAAAACCAAAGGGACCCGGGAAAAA A A G G A GATCAGAAGGGCCGGGGAAAAGGAAGGGGCCGAAAAA A A A A G GAA $A \operatorname{GGG} \operatorname{GAAAAAGGGGAAAAAAAAGGGGAAGGCCGGGG}$ G GAAAAGGGGAAAAGGGGAAAAAAGGCCGGAAAAAACAAAAA A A A A A A A A G G G GAAAAAAAAAAGGGGGGCCAACCAAAA G GAAA G G A A A A G G G G G GAA A C $C A A G G G G G G A A G G A A A A A A C C G G A A G G$ G G G G G GAAAACCAAAAAAAACCGGGGGGAAAACCGGGGGGGG AAAAGGAAAAGGAAAAAAAAGAAAAAGGCCAAGGGGAAGGGA A GAGAAGACAGAACGGCCGGAAGGCCACAAGAGGACAAGAGG GAGGAAGAGACCAGCCAAGAAACCCCCCGGGGGACCAACAGG A A G G GAGGAAAAGGGGGAACGAAAGGAAGGAAAAAGGACCGG G G A A C C G A GACCCAGGGACAGAGACCCCGGCCGAAGAAAGGG A A G G A A A A A A A A G GCCGGGGCCGGAAAGGAAAAAAGGAAGAG A A A A A GCCAACCAACCAAAGGGGAAAGGAAGGAAAAGGGGAA
 A GCAACGGAAAACAGAGGGGGGGAGGGGGGAGACAGGGCCGG GAGGAAAGGGCAAAAGGAAGGGACGAGGGAAAAACCAAAAAA C CAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A \mathrm{~A} G A C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ A A A A G G G G G G G G G A G G C G A TA A A T GAGGGAAAGAAAAACC G G GAAGAGGAGAAGCAGAAAAGGGAGAAACGGAAGGCAGAAGAG GAAGCAGGAAGGGAGGGGCCCAGGGGAGAGCCGGGGGGAAGA A A A A A A A A T TA A A A G G A A A A G G G G G G G G G G A G G G G G G G A A A $G$ GAAAAAGGACAAACAAAAAAAAGGGGCCGGGGAAAAGGAACA $G G C A A A G A G G G A G A A G A C A G A A G A A A G G A A A A G G A A G G A C A A$ $G G A A A A G G G G G G A A G G A A A G G G A A G G A A C C A A A A A A G G G G G G$ C CAAAAGGAAAGAGCAAAGACCAAAAAAGGAAGGCCAGGGAA
 $G G A A G G G A A A A A G A G G A G A A C C G G G G C A G G G A G G C C C C G G G G$
 A A A A A A $\operatorname{A} G G G A A G G G G G G C C G G G G G G A A A A C C A A C C A A G G G G$ G G T T G G G G A A G G G G C C A A A A G G A A G G G G A A G G G G G G A G A $\mathcal{A} A G$ G GCAGAGGGGGGGAAGAAAGGAGGCCGGAAAAAAAAAGGGTT G G G G G G G G A A A G G G GAAAGGAGAAAAAACCAGGGGAGAAAAA
 G GAA A G G G G G A A A A A A $\mathcal{A} G A \operatorname{A} A A A G G G G G G G G A A A A A A G G G G C C$ G G G GCCGGGGGAAAGAGGGGAAGGGAGGAGAAAAAAGGAGA G AGGGAGCGAAAAAAAACCAACCGGAGAAAAGAAGAGAGACAA

A A A A A A A GAGAAGAAGAAGAAGAAAAGAAGAAGGAAGGAAAA GAA $A \operatorname{A} G A G G A A A A A A A A A G A A A A A A A A A G G G G G G G G A A G G A A$ G G G G C A G G A G GAGGAAACAAGGGAGGAAGGGGGGAAA G G GAT AAAGACGAAGTTGAAGACCGTAGAGGGAAGGAGAAAAGGGAG G G G G G G G G G GAGAAGGCAGGAAAAAAAAGGGAAAGGAAAAGA ATGAAAACGGGGCATTGGAAAGCCAGGGAAGGGGGCAGAABA G G G G G G A A A A A A G G GAC CA A A A A A G G GAGAGAGAGGAAAAC C AACCGGGAGAAAAGGAAAAGAAGGAAAACCAATTGGAGAGAA A A A A G GAA $A \operatorname{GGG} \operatorname{GA} \mathrm{G} G A A A A A A A A A A G A G G A A G G C A A A G G G G C C$ GACCAGCCAAGGGAGGAAAAGAAAGGACAGACAGCAAATAAG A A G G G G G A A G A G G A G G T T C C A A G G TAAAAACAGGGAAAAGA G A G G A G A G A A A G G GAGGACACAAAGGGACAGGATACAGGAGAA A A A A G G G G A G G G A G A G A G G G A A A A A G G G G G A GA A C C A A G G A A A GAGAAGAGAGACCGGCCAAGGGAGAGGGGGGAAAAAAGGCC A A A C GAGGAGGGACCCGGGGGAAAAAAAAAGGAGGAGAAGAA GAACCCAAAAAGGAGGATACGAGAGGACCCCAAGCAGGCCGG A G G GCCCCAACCGGAAAAAAAGGGAACCCCAGGAAGAGCGAA A A A A A A A A A A G GCCGGAAGGAAGGGAGGAAGAGGGGGAAAAA $G G A A G G A G A A C A A A A A A G G A A C A G A G G G G G G G G A G G A A A A C A$ G GCCAAAGCAGGGGAGAGACAGGCATGAGGGGCCGGAAAAGA A G GAAGGACAGAGGGGGGAGAAAGAGGGGAAGACAACACAGAA ACAAAAGGAGGGCCGGGGGGAACCGGAAAAGGGGAGGGGGCA A G G G G A A G ACA GAACAAGAAGAAGACAGACGAAAGBAAAACC G G TA $A \operatorname{GCA} A G G G A A A A A G G A A A A A A G C C G A A C G G A G A A A G A G$
 A A G G G GA G G GCAAAAGAAAGACGGACGGACGGGGAAGGAGAA AAGGAAGGAGCCGGCCGGCCGGAAGAGACCGAAAAAAGGAGC A C G G A A A G C C G G A A G G G G G A A C G G A G G G C A A C G G G G G G G G G G A GAAA A A GAGGGGGCACCAGAGAAAAGGAAGAGAGGCAAAAA A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A G G G G G G G G C C T T G G G G A A G A G G G G A G G G$ GAACGAAAGGAACAAAGGGGCAAACCCCCCGAGAGACAAGAG A A A A A A G G G GAAAAAAGGGGAACGAGAGCCAGGGGGGGAACC C C G GAA A G GACCAAGAGGGAGAAAAAGGAAACAAAAAAAGBA TAGAAGGAAAGGAGGAAAAGAGAGGGAACCGGCAACGAAGAG GAAAAGGGGAAGAAGGGGCACCGGGGGAGGAAGGAGGCAAAG G GAACCGGGGCAGGGGAGAGAGAAGGAAGGGGGGGGGAAAGA G GCCCAGGGGGGGGAAAAAGGACCGGGGAACCCCAGG
ATTGGAAAAAAAGAAAAAAAAGAAAAAGGGGAAGGAAAAGG ACAAAGGACCCCGGAGAGAAAGCGGGGAAGACCAACGBAGCA G GACAGGGAGGGAAAGCAGGGGCCGGAAAGAGAGAAGAAGGG AGGGAAAAGGCCGGAAAAAAAAGGCCAAAAGGCCAAAAGGAA
 G GAGGGAAAAAGCAAAGAAAGGGGGGAAAAGACAAGCCAAGG $A C A G A A G G G A G G G G G A A G G G G A A A G G G G G G G G G G G G G G G G G G$ G GCCAAAGGGGAACTTCAGATTAGGAATAAAAGBAAAACAGBG GAGGGGGGGAGGGGAAGGGGGAAGGACAAGAGGGACGGGGGG GAAA A $A \operatorname{AGGGGGGGC} C \subset A G G A G G A A A A G G A A G G A G G A A C A A A G$ CAAGAGAAACGAGGGAAGCCGGAGAAGAGGAAAAGGCCAAAG GAAAAA AA $A \operatorname{A} \operatorname{A} A A G G G G A A A A G G A A A A A A A G A G G A G A G G A C A G$ $G G A C G A A A G G G G A A A A A A G G G G G G A A A A A A G G G G G G B A G A A G$ A A A A GAGGGGGAAGCCAGCCAGAGACAGAGCCGGGGAAGGAA G GAA A G G A G G G G G G C C G A G G G G A A A GAA A GAAA A GA GAAA A A A A G G C C T T A C A C G A G A G G G A G G G G G A C C A A A G G G A T A A G G G G GAAGGGGAGAAAGGGAGAAAAAAAGGCCGGGGAAAACC GAAA A A A A A A G G A A A A A A G G G GCCGGGGCCGGAGGGAAAAGAACAA GGCCCCAAGGAAAAAAAAAGGGAAGGAGAGGGGGGGGGAAAA
 GAAGAAAA GAGGGGCAAAGAAGGACAAGGAAAAAAGGGGGGG $A A G G A A G G A A A A A A G A A G G G C C A A A A G A G A A G A A C A A A A G G G$

AAAAAGGGAAAAAAGAAAGGGGAAGGAAAAGGGGAAAACCBG
 G G G G A A A A G GCCAACCGAAGGAACCACAGGAACCCCAACCAG
 GAAGGAGCGGAAGAGGGGAGAGAAGGGGAAGGCCAAGAAAAA G G G GCAGGGAGGGAATAGGGAAGAAGGGGAGGGGGGAAAACC AAAACCGGAAGGGACAAAACAAGGAAGGAAGGAGGGGGGGGG ACAAAGGAGCCAAAAGAAAGGGGAAAGAAATAGGGAGGAABAA G G A A G GCCAAGGCCCCGGGGGGGGAAAAGGAAAAGGGGCCCC GAAAGAAAAGCCGAGAGGGGGGAAAGCAGGGGAAAACAAGCC
 A A G G G GAACCTTGGCCCCGGAACCAAAAAAAAGGGGGATAAG G A A G G A G A A G A G G A A A A A G G G G G G G A A A G G G G C C G G C G G G G G A A A A C C A G G G A G G G G G G A A G G A G G G G A C G G A A G A G A C A G G G G G GC G G GAGAAGGGGAGTTGAAGGAGGAGAAAGGAGAACAAAA AAAAGGAAAGAAAAAAGAGGACCCCCGGAAGGAACAAGAGAA CAGGGGAAATAGGGAACCGGAAAGCCCCGAGAAGACGAAA GA G G G A G A C A A A A GAA $A \operatorname{GCC} G G A A A A G A G A T A A A A A G A G G C C B A$ C C G G A ACCGACCGAAAGGCCGAGGGGCCAGGGGGGGAAAGAA A A A G A A A A A A A GCCAAAAAAGGAACCCCACGGCCACCCAGCA A G G A A A A A G G T T GAGGGGCCGGCAAAGGGAAAGAAAAGAGGA CAGAAAAAGGAAAGAGATAGAAAAGGCCAAAGAAAAGAGGAA GAAGGAGGGAAAAAAGAAAGGGAGCCGGAGGAAAAGGGAGAA CA $A$ A A A $\mathcal{A} G A G G G G G G A G G A C A C A G C A G G C G A A G A A A G A G G G G$ A A A G A A A A G A A ACAGGAAAAAAAAAGGAGAAAAAAAGGAAGA
 C C A GAA A G GACCCC G G G G A A A GAAAACAAAGGAGCCGAGAAG G G G G T T G GCC G GAGGAGGAAGGGAAAAACGGGAAAAAAAAAA AAAGCCACAGAAGGGGCCGGGAAGACGGAAAAGGGGCAAAAG AAGGCCAAGGAAAGAGCAAAAGGAAAGAAAGGCAGGGGAAAG A A C C G G G G G G A GACAAGGAGGAAAAAACGGAGACAAAAAAAA G GAACCTAGGGGCCAGGGGGAGAAGGGGAGGAAGAAAAGGGG CCGGGAGGGGGGAAAAGGAAGGAAAAAAAGAGAAAAAGAGAG A A GAGAGAGGAAAGGGGGAGAAAAAAGGGAAGGAGAAAGGGG G G G G G G G G A A G G A A G G A C A GAGCAGGGAGAAAGGGGCAAACC A GACA $A \operatorname{AAA} A \operatorname{A} A A A A G G A A A A A G G G A T A A G G A C G A G A G A A A A A$ A GACAAGGAAAAGAAGCAGAGGGGGGCCAAGGACTTCCAGAA A G G GAACAGAGGACAGGGAAAAGGGAAGAAAAA GAA G GAGGTT G GAGCAGGAGCAGGCCACGGAAGACCGAGAGGGAGAAAAAGG A A A C T TA G GAA GAACCGGAAAAGGAGAGCAGAAGGGAGAACC AAAGCGGGAGGAAAAAAAAGAACAACGAAGAAGGGGAAAGAC CAAC $A$ A $A G \operatorname{G} A G G G G G G G G G C A A G G G G G G A A G G A G G A G G G A G A A$ GAACGAGGCCAAACAGGAGGAAGAGGAAGGCCGGAAGGAAAA A A G G A A A A G G A C A GAA A A G G G G A A A GAA GAAGGACC GAA GAA A A G G G G T A G G G G A A A $\mathcal{A} G A A G G G A A A G C C A A G G G G G G A A A A C C$ G G G G A A G A GACACATACCGGGGAAGGATCAACACAAGGGGCC A A G G A GA GAA $A \operatorname{A} \operatorname{A} A A A A G G A A A A A A G G A A G G G G A G G A C A G G A A$ G GAAAAAACCGGAACCAAGGAGAAAGGAGGGGAACAGGGGGG G GAGGGAAAGAAGGAAAGAAGGGAAAAGGGAGAAAAGGGAGG A A A A G G G G A G A G G G G G G G G A A G A G A G A G A A G G G A C A G A G G G G G GAACAGAAGAGGGAGGGGGAAAAAAAGGAGGGGGGGAAATT G GAAATGGAGGGAAGGAAAAAAAAGGAACCCAAAA GAGACAA GAGGAACCGGAAAATTAAAAGAATTAACAGAAAAGGGBAAGG AGGAAAAGAGAACGGGTACCGGGGCCAGTACCGGAAAAGGAG G GAA $A$ A A A GAGGAAACGGAAGACCAAGAAAAAGAA GAGGGGG G GAACCAGAAGACAAGGGAAAAAAGAAAAGGGGGGGAACCCG A G G GCGGAGAAGGACCAAGGGGGGAGGGAAAAGGGGAAAAGB A A A A G G G G G A A G A A A G A A G GAA A C CAAGGGGAAAAG GTTAA G G $C \subset A A C C G A A A A A A A A A A G A A A A G G G G A A A A A A A A C C A G A G G G$

G GAAAGAGGGGGAAAAGGAAAAGGGGCAAGGGAACAGAATAA C CAGCCGAGGAAAAAAGGAAGGAAAAGGAAAAGGAAAAGGAA $G G A C G A G G A A G G G G A G G C A A G G A A G A C C A G G G G G C A C C A G A A$ G G GAACAGAAGGAAAAAGGGGGAAAAGGGAGGAGGGAAGGGG G G G G G G G G A A G G T T A A G GAA $A \operatorname{AGGGAAAACCAAGGGGCCGGAT}$ A G G GAGCCGGGGGACCGAACAAGAAGAAAAACCCAAAGTATT GAAAAAGGCAGACAAGGAAGGGAGAAAAGAAAAAGGGAAGAG G G G GAAGGGAGGGAGAAAACAAAAGGGAAGAAGGACAGAAGA G G A A A A A A A A G GAAAACCGACGGGAGAAAAGAGGGGAAGAAA G GAGACGAGGTTAGAAAAAAAAACAGAGAGGGCAGGAAAACA A A A A C A A A A G G GAAAAAAAGGATACCAACCGGTTAGAAGGCC
 G G G A A G G A A A A GAAAAAAGAGGCCCCCCGACCTTAGGAAGAA GAAGCAGAAGCAAAAAAACCAAAAGGGGAGAGAAAGAGAAAG AGCACAGGAAAGGGAAGAAGGCCAAGGAGAGGAGGGAACAAA AAAAGGCCAAGAAGAAACGAAACCGGGGAAAAACAAGBCAAA A GCCAGGGGGAAGGAAAAAGCCGGAGGGGGGGAGAAAGAAGG G GAA A G G G GACGAGACAGGAAACCGGTTGGACGGAAGAAAAA G GAAAAAAAGGGGGAGAGACAGGGAAAAAAAAGAAACAGGAG CAAAAAAGAAAAAGGAGGAAAGGGGGAAGGCCAGAACCCCGG G G G G A A G G A A A A A A C C G G G G G G G G A A G G G G A A A A A G G A G G G A
 GAGGAACATTAAAAAACCGGGAAAAAGGGGGGCAAAAAGGAA GAGAAACCCCAACCAAGGGAGGAAAAGGGACCACGAAGAAAA GGCCAAAGAACAACAGAAGGCCGGAAAAAAGGCCAAAAGGAC A GAAAAAAAGCCGGCCAAAAGGACAGAAGGGGGGGAGAAAGA AAAAGAAACATAAGAGGAGGAAAAAAGACCAAGGAAAGACGG A GCCAGGGCGGGGGGGAACCGGAAAAGGAACCAAACAAACAA A A GAGAGAGGGGAGCCGGAAAACAGGAAGGGGGAATAAAAAA CCCCGGCCGGAAGGAACCCAGAGGAAAAAGGAAAAAAAGAAA AAAGATGAGAAAAGAAGAGGGGGAAAAGGGCAGGCCGGAAAA G G G GAGGGGACCGGGAACAGCCGGTAGGGAGGCCAGAAGAAA A A G G G A G G A G A A G G G G G G G A A A A GAC G GAAAAGGAAAAAAAA GAGAAGGAATCAAAGAAAGAAGGGAGAAAAAATTGGAACCBG A A G G A A A A A A GAGGGGCCCCGGATGGAACACAAAGGGGCCAA
 GAGGGGAAGAAGGAAGAAAAAGGGAAAGAAATGGGAA
AAA A G GAGAGCGGAAAAAAAGGGGGGGAACCGGGGAACAAA A GCCAAAGCCGACCAAGGGGCAAGAGAACACAGAGGGGGAGG
 GGCCAAAGGGAAAAAGCCAAGGCCAAAAGGCCGGGAAATTGG A GCGAAGGAAAAAAACGACACCAAGGGGAACCAGAACCAATT AAAAACAGAAAAAAGGAGAAAAGGGAAAAGAGAGGGGGCAGA G G GAGAGGGAAAAGCAGGAAAAAAGGGGAGGAGGAAAAAGAA $A G C C A A G G G G A A A A C A C C G G G G A C G G G A A A A A G G G G A G G G G A$ GACAGGAAAAGGAAGGCAAGGAAGACGGGGGGTTCAAGAAGA A G G G G G A A G G A A G G A A A A G G C C A A G G G G G G G G A A G A G G A G A A G G G G G G G GCCAAAAGGGGGGCCAAAGGGGGAAGAGGGGAGGG AA $A G A A A A G G G G C A A A A G G G G A A A A A C C A G G A A A A G A G C A G G$ A A G G A GACAGGGCCGGGGCAGAAGAGGGAGGAAAGGGAAGAG G G A A A G A A A A G G G G G G A G G G A A G G A G GAGGGGAGAAGACCCC A A G G G GAA A G G GCCAAAGAAGAGGAAGAAAGGTTCCGGCC G G
 A G GAA A G GAAGAGAGGAAAAAAGGAGACAAAAAATTAGAGAA A A G G A A A G A A G GA $A$ A A A A A $A$ A A $A G G G G G C G A G C C T T G A G G G G$ G GAGAGAAGGGAGGCCGGAGGGACGGAACCGGGGAAGGAAGA AAGAGGCCGAGAAAGAGAAAAAGGAATTACAAAGAACBAAAC $G G A G A G G A C C A G G A G G G G C C A A G G A A G G G G A A G G A A G A A A C A C$ $T \mathrm{~T} G A \mathrm{~A} G A A G G A G G G G G G G G G G G G G A A G G A A C C A A A A G G A A A A$

AAACCCGACAGGGGAAAAAGAGAACAAAAAAAAGGACAAAGA $A \subset A A G G A A A A G G G G A A C C G A A G G A G G G G G G G G A A A A G G G G G A$ GAAAGAGGAAAAGGAACCAAAGAACCGGAAGGACAGCCAGGG A A G G G GACAGACAACCAAGAAAGGACGGGGAGGGAACCAAGG CCAAGGCCAAAAGGAAAAGGCCAAAAGGAAAAACGGAGAGAA A A G GAAA $A \operatorname{A} G A A G G A A A A G G A A A G G G A A A A G G G G G G G G A G G G$ AAAGGAAGACGACCGGAGGGGGAGAAACGAGGGGGAAAGGGG AAGGAAAAAAAAAAGGAAAAAAGGGGAAAAGGAACCCCBGAA C C A A A A G G G G A A A A G G G G A A G G A A G G G G G G A A G GAAC CAAA A $C C G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A A A G G G G G G$ G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAAA AAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGGCC A A G G G GAA A G G G $A$ A A A A A A $\mathcal{A} G G G G G A A G G A A G G A A A A G G A A A A$ C C A A A A A A A A A A G GCC G GAAAAAAGGCCGGGGAAAAAAAA G G AAAACCGGGGGGGAGAAAGGAGACGAGAGGACAAGAAGAAAA A A GAGGGGCCAGAGCGGAGGGGAGAGGGCCGGGAAGAGAAGG A GAGAGGGGGAAAGGGGGAAGGGGAAAAGAAAAAGAGACCAA AAAGAAAGAAGGGGGAACAAAAGGGGGGAAGGCCBAAACAAA AAGGAACCAACCGGGGGGGAAGCCAGGAGGCCAAGAGGAAAA C C G G A G G G A G G A G A G A G G T T G G A A G A A GAA A A A GAC GAAAAA AAGGAGCCACGGAAGAGGGAAGAGGGAAGGAACCAAAAAAAG GAA A A G G G GAGAGGAAGGGGAAAGAGGGCAGAAGGGGAAAGG $G G A A G A A A G G G A A A G G G G A A G G A A A G G A C C G G G C G G A G A G A G$
 A A A A G A A G G A A A G G G A A GAAGGAAGAAGGAGACCCCAACA G G A A A G A GA $\operatorname{A} A A C A A A G G G A G G G G G G A G A G G G A G A G C C A G C C G C$ GAGAGAAGAGAAAACAGGAGGGAAGAAAAAGGAGGGGACCGG GAAAAGGGAAGGAGCCAAAAGGGAAAAAAAAAAAAAAACAGG A A G G A A A G A G G G G G A G G G A G A A G G G G G G A A G G C G A G G G C C A A AAACAAAGAAGGAAGGAGAAAAGGAACCGGAACCAAAAAAGG A A GA $\operatorname{A} G A A C A A A A A G G A A G A A G G G G G A A A A G G A A A A A A A G G G$ GAGACCGGCCAAGGCCAGCCGGGAAGAAAGGGGAGAGAAGAA A GAGAACCAAAAAGAAGAAACCCAGAAAAGGGAAAAGBAACC A A A A A A G A G A G A G GA A $\mathcal{A} G G G G G A A A A G G G A A A G G G G G B A A C A$ G GAGACAAAAAAAAAGAGGGGAGGGACAGGAAAGGGABAAAA G G G GAA A A A G A A A G A A A A A A A A A A A GAAA G GAAA A G G G G G A C G GAGGGACAGCAAGAAACAAAAGGAACCAAGAAAGGAGGGAA G G G G GACAGACCACGGGAGGGGGGGAAAAACCATAAGGCCAAA G G G G G G A A A A G G A A G A A A A G A A G G G G G G A G A A A A A G G G G A G G
 A A TAA A A G G G G GAACCAAAGGGAAACGAAAGAACAGAGAA G G A A A A A A A A G G A A A A A A G GAAAACCGAGAAAAGAAG GAAAAAA G G G G A A A A G GAA $A \operatorname{GAAAAAAAGAAGCGCCGGGGAAAAAAGGAA}$ G G A A A A A A A A A A A A A A A A CAGGGGGGGGTTGGCCAACAGCAC A A G A A A G G G G G G G G A G G A C A A A G G G G A A G GAAGGCCCAAAAA C C A A A A G G A G G A G G G A A A A G G G A A A GAGAGGGAGG GAAAA G G G A A A G A T A C C G G G A A C G GAAAACCAAAAGGCCCCCCAACCA G A GAAAAAAAAGGAGGGACAAAAAAGGAAGGAAAAGGAAA GAA G GCCGGAAAGAGGGGGGGGGAAAAGGAAAAGAAGGAAAAAGA
 G G G G G A G G G G A GACAAAAAAGGAGCGAAAAGGAACCGAAGGG G G G G A A A A A G G GCCAAAA GAAAAAAACAAAAGCAAAAGAAAA A A A A A A A A G GAAAGAGAGGAAGAAAAGAAAGAA GAAGGGGGA G GAA A A G G GAAAGGGGGGGGGGGAGGGGGAGAAAGGAAAAAA AAAGGAAGGCAAAGAGAAAACAAAGGAAGGGGAAGGCAAAGG
 A A C C A A G A A GAAG GAAGGACAGCCGAAGAGAGGGGGAAAAAA A G G GACAACACCGGAAAGGGAAGGAAGAGAAAACAAGGGGAG GACAATGGAAGGAAAGAAGGAAGGGGGAGGGGGGACCAAAAG
 G G C A A A G G G G G A A G G A G G G A G G A G G G G G A G G A C C A G C A G G G A A A G G A G G A G G A G G G G G G G G G T T A A G G A A A A C C A A GAAA G G G G GAAAGGGAGGGAAGCAAAAAGGAAAAAGAAAGAAAGAAACAT GAATAGCCAAAAAACAAAGAGAAAAAAGAGAGGGGGAAAAAA A A G G G G G G G G A A A A C C A A A A A A C C G G G G C C G G A A C C G G G G T T AAAAGGAAAACCAAGACCAGGGGGAAAAAAAAAAGAAAAAAA $G G A A G G A A G G A G A A G G C C C C A A C C A A A A G G A A A G A A A G G G A A$ GAAAAGAAGGGAGGAAAAAGGGGAAAAACCGACCGBAAACBG AAAAGGGGAACAGGAGAAAGGAAGACGGGGGGGAAAACAGCC
 G G A A A A A A G G G GAA $A \operatorname{GGGGAAAAAAGAAAAGAGCCCCAACAAA}$ AA A GAACAAGGGAGGAAAAAGAGAAATAGGAACCGGGAGAGC C CAACCAGGGAAAAAAAACAGGAAAACCGGGGGGAAGGGGGC G GACAGCCAAACGGGGGGAAAAGGGAAAGAGGAGAAAAGGAG GAGGGGGAGGGAAGGGAGAAAAGGGGGGGACCAAGAAGCCGG A A A GAA A GAA $A \operatorname{ACC} G \mathrm{G}$ GAAAAAAAGATAAAAAGAGCCGGAGAG CAGGGGAAGAGAAAAGCCGGAAGGAAAGAAAGGGGGAAAACC $G C C A C C A G G G A G A G C G A G A A A G A A G G G G C C A A A A G G A A G A A G$ A G G G G A G G A A A A G A A A G G C A G G G A A GAC G G G G G G A A G G A G G G GACCGGAAGGGGAAGAGGAACAGGAAAAGGAGGGAGCAGAAA
 A A A A A A G GCC G G GAA $\operatorname{CA} A A A A G A A C A A G G G G A A A A A A A A G G G G$ T TAA A A A A CAAACAAAAAAAAAGGAAGGAGGAGACAGGAGGG C C G A G G A A A A G G G A G A T T A A A A A G G G GAA A G G G A A G G G G A G G A CAGAAACAACAACCGGAAAACCAAGGAAGGAAGGGGGGGGGG $C \subset A C A A A A A A G G C A G A A T A G G G G G G G G G A A A A G G A A G G A A G A$ GACAGGAACCAAGAAAGGGGGGAAGAAAGGGGGGGAGAAGAA AAAACCAAGGACAACAAAAGAGCCAAGGACAAGGCCGGAGAAA ACGAGGAGGAAGCAAAGATAGAAAAGAAGAGGAAAGGGCCAA A ACC $C G G G G A A G G A A G G G G A A G G G G G G G G A A A A A T G G A A A A A G$ GAAAGGAAGGGGGGAAGAAGAACCAAAAGGAAGAGGACAAGA G G G GAA $A \operatorname{GAAA} A G G A A G A A G G G C C T T A A G A A A A A A G G A G A G G$


 GAGGGGTAACGGTTCCGGCCAAGGGGGGAAGAAGGGA
A GAA A A GAAGATACCGGGGGGAGGAGGAGAAAGGGAGCAAG G GAA A GAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAAAAGAG GA $\operatorname{G} A \mathrm{~A} G \mathrm{GA} A \mathrm{~A} G \mathrm{G}$ GAACAGAGAGAAGAGGGGACCGAAGAAAGGG AGCCGAAAAAGGCAGGGGGGAGCCCAGGAAGAGGAAACAAAA
 A A GAGAAGGGAGGGGGGGGGGGAAGGGGGGGGAAGGGGCCGG A A T T G G G A A G G GAAAAAAAGAGAAGGAGAGAGACGAAGAC GA G GAGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGGAAAA GAAC $A \operatorname{AAA} A G G G A A A G G G G A G A A G G G G G G A A G G G G G G C C A G A A$ G GCAA G G A A G A A G G G G A A G G GGCAAGAAAACCCCGGAAA A A A G G G G A G G G G G A A A G G G A A A A A A G G GAGGGGGGAAA G GA G G G G G GAA $A \operatorname{GAA} A A G G A A G G A A A G G A G A G G A A A G A A A A G G C C A G G G$ GAGGAACCAGAAAGCAAGAAGGAAAGGGGGGGAACCGGGGGG C CAGAA $A \operatorname{G} G A C A A A A A G G A G A A G A G G G G G A A A A A G A G A G A G A$ $A C A C A C G G A G A G T T G G G A G G A G C A A G A G G A G G A G G G G G G G C C$ G G G G G G C A G G G G G G G G A A A G C C G G A A GAACAA A A G G A GAAA A GAAAGGAAGGAAAACCGGGAAAGGGGGGGGGGAAAGAAAAGG G GCCCCGGGAAAGGGAAGGGGAGGACCAGGAGACGGAAGGGG A G G G G G A A A A G G G G G G A A A A A A C C A A G G G G A C G G A A G A G A A A A CAGAAAGGACCGGAATTAAAAGGGGGGCCGGAAGAAAGGGG A G G GAAAACCCCAAGGAAGGAAGGGGGGAGGAAACAAAGGGG $C \subset A A G G G A G G C C G G A A A G A G A C G G A G A A G A G G A G G A G A C C C C$

A G G GAGAGAAAACCAACAAAGGGGAACCAAAAGGAGGGGGGG A A A A C C G G A A A A G A G G GAA $A \operatorname{AAGGGAAGGCCAAAAGGAAACGG}$ GAAGAAGGACCCAGAGGGCAAGGGAGAGAAGGAAGGAAAAAG G G G GCAAGCCGGAGAGAGAACCAACCGGCCAAGGGGGGACBG A G G GAAAACCGGAAGGACGGGGGGGGAAAAGGGGCCGAAGAA G G A G A A A G G G A G A A A G G A G G A A C C G G G G G G G G A G G A G G G G G G
 G G G GAAACAGAAGAACGAAAAAAAACAGAAGAAAGGGGAGAG A C A A A A A G A G A A C C A A GAA $A \operatorname{GGGGGAAAAGAGGAGGGGGGGAA}$ G GAGAGAATTGGGGACGGAAGGGACCAAGAGGAGCAGACAGG G G A A A G G G G G A A A A C A A A G G G G G G G G C A G G G G T A A A G G G G G G A A G GCCAAGGGGGGGGCCAGCAGGAAGGCAGGGAACCCGGGG
 G GAAAAGGAAAAAAAAGGGGAAGGGAAGGAAAGAAAAAGGTT G GAAAA A $A \operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A G G G G G G G A G G G G A G A A G A A A G G G G$ AAAAGGAAGAAAAGAGAGACAAGGCCAAGAAAGGAGAAAAAA A A A A G GAGAGGGCAGGGGCCGGCAGGAAGGAGAAGGCCAAAT $A C A G A G C A G G G G A A A A A A A A G A G G G G A A C G G A A A C C G G G G A G$ GGGGCAACAAAAACAAAAGGAAAGCCGGCAGGAAAAGGTACC A G A A A A A G A A G G A A A A A C G GAGAAAAGGACCC GACCAAGGCC AAAAGGACAAGGAGGGAGAGGGAGAGAACCAAAAGGGGGGAG C C G GAAAAAAGGAAGGAAGAAGGGACGAAGGGAGGAAAAGAA TAAA $A$ A A A A C C A A $\mathcal{A} G G G G G G A C A A G G A G A C C G G A A A A G G G G G G$ GAGGAAGACCGAAACCAAAACCAAAAAAGGGGGGAGGGAAAG G G G G G GCACCAAAAGGGAAAGGAAGGCAGGGGGGGGGGAAAA GGCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAGAAAAAAA A A G GAAAGGACGGGAAACGGGAGGAGGGAAGGGGGGCAAAAG ACGAAGAAAACCAAGGACCCAAAAGAGGAAAACCAAAGAAGA GAAAAAAAAGGAAGAGACACCAAAGGGGAAGGAGAAAAAAGG A G GAGGGGGGGGGGGAAATTGGGGAACCAAAAAAGGAAAACC G G A A A A A A G G G GAAAAAAAAAAGGAAAACCGGAACCCAAAAA AAAAGGAAAAAAGGGGAAGGGGGGGGGGAAAAAAAAAACCGG A A C C A A G G G G G G G G G G A A G G G G A A G G G G C C G G A A A A G G A A G G G GAA A G G G A A A A A A G G G G G G A A A A C C G G G GCCGGAACAAAAA C CAA $A \operatorname{GCC} C \subset G G A A A A C C A A G G G G G G A A G G C C A A G G A A G G A A$ A A G G A A G G A A G GCCGGGGGGAAAAGGGGCCAAGGAACCGGGG G GAAGGCCAAGGGGCCAAGGGGAAAAAACCGGAAAAGGCCGG A A A A A ACCAA GGGGAAAACCAAAAAAAAGGAAAAAAGGCCCC C C G G A A A A G G A A A A G G A A G G G G A A A A G G G GAA $A$ G A A C CAA C C A A G GCCGGAAGGCCGGGGCCAAGGAAGGCCGGAAAAGAAAGG AAGGCCGGAACCGGGGAAAACCGGGGAACCAAAAGGCCAAAA
 G G G GAAAACCAAAAGGAAAAGGGGAAAAAAGGGGAAGGGGAA A A G G G G G G G G A A A A A A A A C C G G A A G G G G G G T T A A G G A A A A C C A A A A G G G GCCAAGGGGCCAATTGGAAAACCAAAAGGCCGGGG A A A A A ACCAAAAAAAAGGAAAAAAGGGGAAAAAAGGGAAAGG
 G G G G G GAACCAAAAAAAAAAAACCCCGGCCAAGAAAGGGGGG G G G GAA $A \operatorname{GAA} C \subset C C G G A A A A G G A A G G C C G G G G A A G G G G G G G G$ G G A A T T G G A A A A A A G G A A A A C C G G G GAAGGGGCCCCGGAAAA
 A A G G G G G G A A G G G GCC CAAAAGGGGAAAAGGGGAAAAGGAGAA A ACCGGGGAAAAAAAAGGAAGGAAGGAACCGGAAAAGGCCAA $C \subset G G C C A A C C G G A A G G G G G G G G G G A A C C A A C C A A A A G G A A A A$ AAAAGGGGGGGGAAAAAAAAAAGGAAGGGGGAGAGAAAACAG A A G G C A A T A A A G G A G G A GCCAACCCCGGGGACGGAAAGTA G G

 A A A A A GAAGATAAGAAAAAAGAGGCCGGAAAAGGGGAAGGAA

G GAAGGGGAGGGGGCCAGAGGAGGAAAGGAGGGGAACCAGAG G GAGAAGGAGGAAAAAAGGAAGAGAGAAACAAAAGBATAAGG $G G A A A A G G G G G G G G A A A G A G A A A C C A A C A G G A G G G G A C C C G G$

 AAAAGGGGAAGGAAAAAGGGAGGGAAAAAAGGAAAGAAACBG
 $T \mathrm{~T} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} C \mathrm{C} A A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A A A A A A C C G G G G A A G G C C A A$ G GAAAAGGAAAAGGCCAAAAAACCGGCCAAAAAAAAAAAACC $C C G G A A G G G G A A G G G G T T G A A A A A A A G G G G C C G G A G C A G G A G$ G GAAC A A A G GA G G GAGAAACGAAAGAGGAGACAAAGGACGAA AAAAAAGAGGGACCGAGGAAGGAAAGAGAAAAGAGGGAAAGA G G G GCCGGAAAACCGAGGCCGGGGGGAACCAGGGGAGGAAGA
 GAACGGAACCGGCCCCAGAGGGGAGGAGCCACCAAGGGACAG A GAGAACCAAAAGGAAAAGGAAGGGGGGCAGAGGAGAAGGAG GAGAGATTGGAGCGGAGAAGGACGGACAAGAGCAGAAGAAGG A A A A G GCAAAGGAAGGAACGGGGGAGGAGGAAAAAGAAGAAG GAGGGAAAAACCAAAAAAGGGGAGACAGAAGGAGGAAAGGAG G G G G A A G G GAAAAAAC $A \operatorname{A} A G G A A A A G G G G G G G A G G A A A A G A A$ G G GAGGCCAAGGGGAACAAAGGAGGGAAGGGAAGGGGGCACA A GAAAAAA A $A$ A A A A A $\operatorname{A} A G G A G A A G G G G G G G G C A G A A A G A C C G G$ GAAAAGCAGGCCGGGGAAAAGGTTAGGGGGGGAAGGCCAGGG A A A A A ACCGGGAGACCCCGGAACCGGGGAAAAGGGGAAGGAA G G G GCCGGAAAAGGGGGGAAGGGGCCAAAAAAAAAAAAGGAA AACCAAGGGGGGGGAAAAGGGGGGGGAAAAAAGGCCAAAACC
 G G G G A G G A C C G GAAA A A A A GAAA A A A A A C CAAA A A CAA G G G A G G G G A C A G A G G G G G G G A G G GAACAGACCAAGGAGAGAGAAAG ACGAAGAACAGGGGAAGGAAAAGAAAAGGGCAAAAAAAGAAA C C G G G G A A G G A A A A C C G G GAGGAAAGAAGGAAAAGAAAA GAA AAAGAGGAGGGGGAAAAAGAAAGGGACAGAAGAAGACAGGAA AAGGAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAGAAAAGG C C G GAA A A A C GAGGAAGAAGAAAGAGAGAATTGGGGCAAAAA AACCAAGGAAGGAAAATAAAAAAACCGAAGAGGAAGAAAA GA GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAGA AAACGAACCACAAAAGGGCCCCAAGGCAGGAAACAGA
A GAAGGGAGACCAGAGAAAGGAGAAGGGGGGGACAGGGAAG G G A A G G G G A G A A G G G G CC C G C C G G A A G G A A A A G G A A A A A A G G
 GAGAGGAAAACCGGAAAGGGAGACAAAGAGAAGGAAAACCAC A A A A G A A G A A A $\mathcal{A} G G G G G G A A G G G G G G A C G G A G A G C A G A A G A A$
 GAGGGGAAGGCAAAAAAAGGGCAGAACCGGGGAAGGAACACC AACCAAGGCCGAAAAAGAGGGGGGAAGGAGAAGGAAGACAAC ACAAGAAAGCGGCCAGGGCCGGGACAGAAACCAAAGGA G GAAG A A G GCCGAGAC GAAGGAAGAAAGGAAGGGGGAAAGGAGAAAA TAGGAAGGGAGAATCATACAGAAGCAGAAGGGAGCAGAAAAG GACCAAGGGGAACAGGGGGGGGGAAGAGCCATAACCAAAACC A A G GA $\operatorname{A} G A A G G G A G A G G G A G A G G A A A G G A G G A A A G G A A A A A A$ A GAGAGAAGGAAACAAAAGGGGAAAGGGGGGAAGAGAGAABAA A A G G GCAG GAGAAAGAGGGGGGGAGAAAAGCCCAAAAAAAAA
 AAAAGGGGGGAACAGGCCAGCAGGAGAGGGGGGGAAAGGGGG G GAGGAAGAAAGAGGGGAAGGGAGGGGAGGGAGAGGCAGCAA $A G A T A A G A A A A A G G C A C A A A A A A A A G A G G G G A G A A G G G G A G G$ AAGGGACAAAAAAAGGGAAAACGGAAAAAAGGGGAAGGAGAG A A G GAA A G A A A G GAAGAATTAGCAAACGGGAAAAAAAAAAAA GAGGGGACGGAAAAGGGGACGACGAAGAGGCCAGACGAAGAA

G GAGAAAAGGGACCAAGGGGAGGGGGAAGACAGGAGGAGGGA G G G G A A G G G G A G G A G G G A A A C C G G G G A G A G G G G G G G G A G G G A G G G G GAGAGAGAAAAGCCGAGAAGCCGGAAAAGGGGAGAA GA G G G G G GAGGAGGAGAAAGAGGAAGAGAAAAACAAGGGGGAGG A G G GAGAAGGGGGGAAAAGAGGAGAAAGGGCCGAGGCCAAGG G G G A A G T T GAAGCCAGAAGAGAGGAGGGCCGAAGGAGAAAAA G G G GAACAAGAGAAAAAAAAAAAAAAGAAGAAAACCGGAGAA $C C G G G C G G G G G A A A A G A G G G A A G G G A G G G A G G C C C C A A A A C C$ C C G G G G G G G G G G G A G G A A A G G A A A A A A A A GAAA A A C G G C C A C A GGACCGGGGCCACGGGGGGTTAACGAAGGAAGGAGGGAAAA A GA A A A A G G G G GAACAGGGGAGGGGAGGGAAGACCAAGAGAA A A A GCCGAGGAAGGCCGGAAGGGGCCGGCAGAACGAAAAAAA C C G GCCAAACAACCAGGATXAAGGCCGGAAGAGAAAGGCCGG
 GAAAAGGAGAAGAGGGGGAGGAAAGGCAAAGAGGAGAAAACC GAAGGAAAAAAAAGCCGGAAAAGAAAAAGGAAGGAAAAAAAA $A G A G G A G G G G C C G A G G G G A G A G C A A G A C A G A C A G A A G G A G A A$ GAGAGGAGGGGGAAGGTAGAAGGAAAAGAGAGAAAAGATTGA AA $A$ A A G G G A A T TAACCGGCCGGAAGGAACCGGGGGGTTAA G G CACAAAAAAAAAGGAGAAGGGAAAGAGGAAAAGAAAAAAAAA G G G GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} G A A A A A A A G G G G G G A A G G A A G G G G C C G G$ A A G G G GAA A G G G A A A A A A G GAA A G G GAAGGGGAAAAAA G G T T A A G G G G G G A A G GAA A G A CAAAGCCCCAGGGAAAAAGAGAAGG A ACCGGCAGGAAAAAAGGAACCGGGGAAGGAAAGCCGGAGGG G G GAAAGGAGACCCGGAGCXAAGGGGGGAGAAAGCCGGAAAC AAAAGGAAGGGAACGGAGAAGGGGAAGGGGCAAGAAGGGGAA GAGAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAAA C CAGGAGAGAAAGGCGAGAAGAGAAGAAGGGAAAAAGGAAAA
 A A G GA $\operatorname{A} G A G G G G A G G G A G A G A G G G G G A G A G G G C C A G C C A A A A$ G G A A A A A G GAAA $A \operatorname{A} A A A G G A G A A A A C C G A A G A G G G C C A G A G G G$ AAGGAAGGGGAAGGGGCCAGGAGACCAGAGCCGGAAGGAAGG A GAAAAAAAAAAGGGAACAAAAAAAAAACCGAAGCCGBACAA AAGGAGGAAAGAAAGGACGGAGAAAAAAGGGGCGGGAACCAA A A A A A A A G GAAA $A \operatorname{AGGGACTAGAGAGGGGAAAAGGAACAGGAA}$ G G G GAAGGAAAAAAAAAACAAAGGAAGGAAGGGAAAAACACC C CAA A G G G G G G GAACCAGAAGGAAGGGGGACCCCAGAGAGGA A A GAGGAGAGGGGAAAAAGGCGAAAGAACGCCAAGGGGAGGG A A A A A A A G GAA G GAAAGATTGGAGAAAAAAAAAA GAAAAAGG G GAA A A ACAAGGCCGAGAAAGAAGACACAGACAAGAAAGABA $G G A G C A A A G G G A A G A G A G G G G G G A A A C C G G A A A G A A G G A G A A$ A A A G G ACAAAAAGGAAAAAAGGCCAACGGGGGAGGACCAAGB G G G GAAAAAAAGAGTAAAGAGAAAATAAACAACCGGCCAAGA A G G G T A C C A G G A A A G A A A G G G G G G C G A GAGAAA G G GAAAC T T GAAAGAGGAAGAGAGGTAAGAACAAGGGAAGACCAAAGAAAG G GAGACGGAAGGGGAGAGCCGGGAGGAAAAGGAAAGAAAGAA GAGGAAGGGGCAAGGAGGAGAAAACAAGAGAAGAGGGGAAGAG
 GAAGGGCCGAGGAGAAAGGGAGAGAAGAAAAAAAGGAAAAGA G G G A G GA $\operatorname{A} G \mathrm{G}$ GCAAAGGCCGGAAGGAACAGGAGAAGAAAAAAA $C \subset G G C A T A A A G G G A A A A A G G G A G G G G G G A G A A A A A G G G A G G G$ G GAACAGAGAAAAGCCGGAGCCAAGGACAGAAAAAGCCAAAAG
 GAGGTTAGGGAAGAGGGGAAAACCCAAAAGGGAAAACCBAAA G G G G A A A A A A A A A A A A G G G GAA $A \operatorname{GAAAAAGGGGAAGGGGAAAA}$ A GAGGAGAGGAACACCAGGGAAAAAAAAGGAGCCGGGGAAAA $G G A A A G C C A A G A A A G A A A G A A G A G A G A C G A G A A A G A G A A C A A$ A G A A C A G G G G G G G G G G A G G GAAAAAACGCGGGGAAG GA GAA GA AAGGGGGACCGGAAAACCCAGGGGAGGGAGGGCACACAGAGG

AAAAGGCCAAGGAAAAGGAGGAGGGGAAAAGAGAGGAAAACA AAGGGGAAAAAAGACCAAGGGGAAAAAATAGGACCCTTAA G G A A A AACCGAGGAAGGAAAAGGAAAAAAAGGGGATAGAGAGGAGAA A A A A A A A A G G G G G G G GAAAAAACAGAAAGGAAAAGGAATTCC ACGGGGAAAAACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA C GAA $A \operatorname{G} G \mathrm{G} G A C C C C G G A A A A G G A A G A A G A A G G G G G G A A G G G G$ $A G G G A G G A A G G A A G G G G G A A A A G G G G G G A A G G G G C C A A G G G G$ GGGGCCAAGGAAGGAAGAAAGGGGAGAGAGGCATCCGGAAGAG AAGGCAAACCACGGAAAGAAGGGGCCAACCAAGGGGGGGGGA G G TAA AAAAGAGGAGACAAAAAGAAGGGAACAGGGGGGAAGAG T TAACACAAAAAGGAAAAAGCAGAAAGGACGGGAAGAGCCGG G G G A G A A A C C C C A A G G A A G GAACCGGCCAAAAGGCCAACCGG
 G GAGGAGACAGACCGGAGCAGGGGGGGGAAGGCAGGAGAAAA $A G C \subset A A A G A A A A G A G G G A A G G G G G G G G G G G G A A G G G G G G G G G$ G GAATTAAGGAACCGGGAAGACAGAGACAAGAAGAAAGAGAG GAGAAGACGGGAAAGGCCGGAAGGAAGAAACCAAGBAAACAA A A A G A GAGAGAAGGGGGAAGCCGGCAGGAAGGAGAGAAAAAA $C C G G T A A A A A A A C C A G A G A G A G G G C C A A G G G G G G G G A G G G G G$ A A A A A A A A G G G A C G A G G A A G G G G G G G G G G G G G A A A G G A G G A A G G G GAAAGGGGAAAAAGGAACAGGCGGACAAAAAGAAAAAGA GGCACCGGAAATCCGAAAGGGGGAAAGGAGGGAGGGGGGGAA A G GAAA A GAACCCAGACAGGGGAAGGAAGCAAAGAAGAAGAA GAGGAAGGAGAGGGCCAAGGAAGGAAGGGGGAAAGGAGAGAA GAAAAGCCAAGAAGCCTTACAGGCGAAAAAAGAGAAAAGAAA A G GAACAAAAGGAGAGAAGAAAGAAACCAAGGGAAGAAGAAA G G G G G A A G GAA $A$ A $A$ A $\operatorname{A} A A G A G A G A A G G G G A A G G G G G G A A A C A$
 $A G G G G A C G A A G G A A A A G G G G A G A G A G A A A G G G C G B A G G G G G G$ A G GAGGGGAAGAAGGGACGGCCGAAGAAGGCCAACCGGAGAG
 G G G G G GACAGGGAAGAAGAGGGAGCACCAGGGGGGGAAGAAA AAAAGGCCAACCGGAAAACCAGGGCCGGGGAAGAGGGGAAAG GAGGAGAAGAGGCCACCCGAGAGGAAAAAAAAGGGBAACCAG A ACGAAAGGAGAAGGAAAGGCCAACAGGGGAAAAAAGGAGAA G G G G A A A C A G A A A G G G A G G G G GCC G G CA GAAGGAA GAC GA GA A A A A G G G G G G G G A A C C G G G G A A $\mathcal{A} G G G G G G G A A G G A A A$
$A G G A A G G G G G G G G C C G G G G A A G G G G G G G G G G G G A G G A G A G G$ A GA $A \operatorname{GA} A G A A G G G A G A G G T T A A G A A G A G A G A G A A A A G A G G G G$ G G G G G A A G A C A A A C C C A A G G G GAGGGAACCGGGGGGGAAAA G $A G G A C C G G G G G A G G A A G A A A G G A A G G G G A A C C G G A A C A G G G A$ GAGGAAGGAAGGGACCAGACAGGGGGCAAAAAGGGGAAAAAA A A G G GAAAAGGAGGGGGAACAACAGGACAAAAAGGGAAGGAG CACCAAAAAAAAGGGGGGGGAAGGTTGGGGGGGGGGGAAAAA G G A A A A G G A A G G G G G G A A G G A A A A A A A A A A A A C C G GAAAA G G G G A A A A C C G G A A G G A A A A A A G G G G G G C C G G G G G G G G G G A A G G G G G GCCAAAAAAGGAAAACAAAGGGGGGGGGGGGAAAAAAAA AAAAGGGGAAAAGGAACCGGCCGGAAGGGGAAGGGGAAGAAA G G G GAAAAAAAAAAGGAAAAGGAAGGGGGGCCGGAAGGCAAA
 G G G G A A G G G G G G G G G A G G A A A A GAAGAAGGAAGGAAAAACAA CCGGAAAAAAAAGGAAAGAGCCAAAAGAAAGAAGA GAAAGGG A G G A A A $\operatorname{A} A A \operatorname{A} A A A A A G G G G G G A A G G A A A A G G G G A A G G A T A A G G$ G G G G G G A G A G G A A A C C G A A A G G G G G G GAGGGGA A A A A A A A A G $C \subset G G A C A A G G A A G G G G G G G G A G G G C A A A A G G G A T G A A A A A G G$ A GAAAGGAAAGACCGGAAGGGAGAAAGGGGAGAACACAAABG GAAAAGGAAAGGAACCAAGAGGGACACCGGGGAACACAAAAA G GAAGCGGGGAAAAGAGAAGAGAGAGAAGATTGGCCAGABAA $A G G G A A G G A G A A G G A A G G C C C C G G A A A G G A G G A A A G A G G G A A$

GAGAAAGGAACCGGGGAAGGAATTGGACAAGGGGAAGAACAC
 $A G A A A A C C G G G G G G G G G G A G A A A A G G G G C A A A G G G G A C A A G A$ A GGAAGGGAAGGAAAAAGAGAAAAAAGGACAAAAAGAGAAGA GAAGGAGGAAGGGGAAGGCCAAGGGGCCAGAGAAACGGGCAA A A G G A G G G G G G A A A G G A G G G C G A GC C A A A G G G G A A G G G G G A A G G G G G G G G G G A G G G G A A A A GAA A G G GAGCCAAA G GAAA G GAA
 GAGAGGGAAAACATACAAGGGGAAGAAAAAAAAAGAGGAAGA GACAGGGGAACCAAAAGGAAAAGGGAGGGGAAGGAAAAGGGG AAAAAGAGAGAAGACCAGAAGGCCCAAAAGGGAAAGGAAAGG AA GAAAAAAACCAGAGAAAAGAAAAAAGGGGAAACCGGAGGG C C G A A A GAGGGGGAGGGGCAGGGGAAAAGGGAAAA GAAAGAA G G A A A GA GAG GAAAGAAAAAGGCCAGGAAGGGAGGGGAAAAC
 A TAC C G G A GAAAAAAGGGGAGGCAGACAAGAGGGAGAACAAA A GAGGGGGAGAAGGGGAGAAGAAGCCAAAGAAAAGGGAGGGG G G T TACAAAAGGGGAAGGAACCCCAACCAAGGGGAAAAGGAA $G G G G A A A G A G A A A G A A G G A A G A A G G G G A A G C A G A C A A G A A G A$ G G G G A A C C G G A A G A G G A A A A G G G GCC GAGACCA GA GAGCC G G AAGAAAGGAGGAAAAAGGCCGGAGCAGAAGAGACCACACAGA G G G G G GCAAACCGACCAAAGAGCCGACCAGAGCAGGGGGGGG AAAAAGCCACAAAGCAGAAGCAAGGAGGAGGGAGAAAGGGGG G G A A A A G A G A A A A C G A A A A A G G G G G G C C G G G G A G G G C C A A A G GAAGGAGGAAGGGGAAGAAAGGAGGGCCGAAGGAAGGGABAAG GAGGGGAACACAAGGGAAGGGGAAGGAAAAGAGAGGGGAACA GAGAGAGAGGAATTAGGGCAACACAAAAGAGAGAAAGAGGGA A A G GAGGAGAGGCCAGACAGGGAAAAAAGAAACCAAAGAAAA G G C A G G G A A A G G G G G G A GAAAAGGGGGAGAAAATCAAGAACC G G A A A A A GAGGGGAGAGGGGGGGGGGCCAAAGACGAAAAAAA A A A A G GCCGGAGACGGGACAGAGAGGAGGAGAATCACCCCBA AACCAAAAAGAGAAAAGGAACCCCAAAGAAGGAAAATTGGGG A GAA $A \operatorname{GAA} A A A A A A G G A A C C A A G G A A A G G G A A G A G A G A G A C A$ G G GACAAGGGGAGGAAGAAGCCAAGGGAAAGGAGAAAACCCC AACCGAAGAAGGAAGGAAAAAAAACCAAGGAAGAAACCCCCA CAGGAA G GAAAGGAGACCAAAGAAGGGCGGCAGGGGGGGGGG AAAAGGAAAGAACCAAGACCAGAGGGCCGGAAAACAAACCBG A GCCGGAAAAGAAGAAGACCGGGGGGGAACGAAAGATAAAAG GAAGGGGAAAGGGGCCGGGAAAAAGAGGAAGACCGGAAGGCC A A A G G G G G T T G G G G G A A G G A C C G G G G G G A G A A G G A A G G G G C A G G G GCCGAGAGGAAGGGGGGGGAAAAAAAAGAGACACACAAA
 GAAGCCAGAGGACCCCAGAAGAGAAGGGAGGAGGAAAAGGGG AAAAAAGGAGCCGGAAGGAACAAGAAAAAAGGAGGGAAAAGG A G G A A A G A G G G ACC GAGAAACCGGAAAACCGGGGGGAAAA GA CAAAAACAAGAACCCCCAAACAGGAGGGGGTAAAGGCCGGGG $G G A A A C G G G A G G G A A G G G G G C A G A G G A A A A G G G G G A A A A A G G$ A G G G A A A A G G G G G G T T A A A A C C G G A A A G G G G G A A G A G G G G A A AAAAAGGGAAACAACCGGAAGGGGAGAAGAAAGGGGAATTGA G G G G A G A G A A A A G A A A A A G GA GAGCCCCAGAAAAGGGGAGCA G G G G G G G G A C G A A A C C G G G A A G A G A A T T G G G G G A G G G G G A G A GAAGGGAAGACATTAAGAAGAGGAAGAGGAGGAAA GAGAAGAG AACCAGGGGAACACAAAAAAAAAAAAAACCGGGGAAAAGGGG A A G G G GAAAAGGCCGGGACAAGAGACGGAAAAGGAGCGBAAA A A GAGGAGCAGAAGGGGGAACAAGAAAGAGGGAAAGAGAAAA G GCCAAAAAAGGGGAAAATTGGGGGAGGAGAAGGAAAAAAGAG AAAAGGGGAAGGGGAACCGGAAAAGAGGCCGGAGGGGAAAAC
 $G G C C G G A G A A A G C A A A C C G G A A G A G A A A C C G G A G G G A C A G A G$

A A GAAACCAAGGGGAAGGCCGACCGGCCGGAAAAAAAAAAGG G G A A A A A A G G G G A A A A G GAAAAAAAAAGGGGCAAAA G GA GA G G G GAGGGAAGGGACCGGAAAAGGAAGGCCAGAAAGGAGAAAGG AAAGAAAAGGCAAGGAGGGGAAGAAGCCACGGAAGGAAAACC AACACCAGGAAGGGGGAAGAGGGGCCGAGGAAAAAAGGAAGB GACCAAAAAAAAAAAACCCCAGGGCCGGAAAAGAGAAGAGAA C C C A G G G G G G A G G G G G A A G A G G A A GAGGAAGGGGAAAAAGAG G GAA A GAGCGGAGAGGAAAAGGAAAGGGAGGACCGAGAAAAG G G G G G G A G A A G GAA A A A A G G G G A A A A A A A A C CAAA A A CAA G G G G G GAAAGGAGGAAGGGAGAAAAGAACCAGAAGGAGAACCGG GGCCAAGGAAGACAAGACGGAAACGAGAGGGGAAGGCCAA GA A A GACCAGGAGGAGAGGGGGGGGAAAAAAGAAGGGGGACAAA
 G G A A A A A C A C A A C C G G A A G GAA G G C C GAAATAAAG G GA GA G A AAACGGGGAAGAAACCAAGACACCGGACAAAAGGGAAGAGGG GAAAAGAGGAAACCCCGGCCAGAGAAGGAAGGGGGGCCGGGG GGAACCCACAAGAGAAGAAAAAAAGGAACCCCGGAGAGAABA G G GACCGGGAAAGGGGGGCCGGGAGGAACCGGGGAGGGAABA $G G A G A G G G G G G G G G C C A A C A A A G G G A G G G A A A G G G G G G A G A A$ G G G GAACCCCGGCCGGCCGGAAGGGGAAGGGGAAAAAAGGAG $C \subset G G A G A A G G A A C C A G A A A G A A C C C A A A G G G A A G C C C C A A C A$ GAAAGGAAGAGAACGGGAAGGGAGAGAAGGGGAAAACCAGAA G GAGGGAGAGGGAAAGGAAAAAGGGGGAGGGAGGGAAAAAAG A A A A G G A G A $\mathcal{A} G G G A G A G G G G G G G G A G A A G G A A G G A A A A G G A A$ AAGGGAAAAAAAAGACAGGGGGAAAGAAGAAAGGGAAAAAAG G G G GAGGGAGAGGAGGAGAGGGGGGAAGGGGAAAAAGGAGAA G G G G G G G G G GAACAGAAACCAAGGAAGGAACCAAAAAACCGG G GCCGGAGGAAGGGCGAGGGGGAAAGAACCGGGAGGAGAGGG C CAGAAGAAAGAGGGGGGGAGAACAGCAAAAAAAGGGAAAAG A G G G A A GAGACCACCCAGCCCCCCGAAGAACAAGGAGGATAG G GAGGGAGAAAGGAAAAAAAAAAGGGGGGTTXAGGGAGGGGGG A GAGAGAAGGCAGGACAAGAGGGACAGGAGGGGAAACAGAAG A G G G G A G G A C A GAGGAGGGAGGACAGGGCCAAGAGGGAAGAA CAAAGACCCCCCCACAAACACCAGGAGGAAAAGAAAGGGGAA AAAGGGCCAGGGAACCAGGGAGGAGGAGAGGGGGGGCCAAAA C C G G G A A A GACCACAAAAAGAAAGGACCAAACCAGAAAAAGG GAGGAGGAGGAAGGCCGGAAAAGGGGGAGAAAAAAGG
GACGGACAGAAGGAAGGAAAGGGCCAACCAGGGGGAAAAGG GACAAGCCGGAAAACAGGGGGGGACAAAGGAGAAAAAAGGGG G GACGGAAGAGACAGGAGAAGGGGAAGGAGGAGGCCAAAAAA $G G A G A G A A G A G G A C G G A A G G G A G A G G A A G G G A A A A G C A A A A A$ G G G G A G G G A G A GAACAGGGGAAAACCAAAGCAAGAGCABACC $C \subset G G G A A C G G G G A T G G G G G G A A A A A A A G G A G G G G C C A G A C A A$ A G G G A A A G A A G GAAAGGGAAAGAGAGAAAAGAGGCCAACAAA
 A A G G G G G A A G A G G G G G G G A A A G G A G G A A A A G GAA $A$ G G A G G G A A GAGAGAAAAGGAAAAGGGAAGACAGAGCCGGAAGGGAAAAG ACGGGGGAAAGAAAAAAAGAGGGGCAGACCACAGAGAGAGGG G GAAGGGAAACCAGAGAGGGGACCCCGAGGGGAGAGGAAAAG $A G C C A G G G G G G G A A G G A C G A G A G G G G C C G A G G A A A A A A G G A A$ $A G G G G G A G A A A G A G G A G A G G G A A A G G A A C C G G G G A A A G A G C A$ A GCCAAAAAGAAGGGAAGAGGAGAAAAAGGAACAGGGGAGAAA GACCGGGGGGAAGGAAAAAAGAAAACGAGGAGAACCGGAGAG G G GAAA A A GAGAAGAACCAGAAGGAAGGACAGAACCCAGAAC A GAA A G A C G A GAGAGGGGAAGGGGGGAAAAGGGGAAGAACAA A A G G G G G G A A G G G GAA A G G G CA A GACAA A GAAAA A GAC G GA G C C GAAAAAGGGGGAAAAAGAGCAGGAGAAAGGAAA GAGGGGG
 AAGGAACGGGCCGGGGAAAAGGGGAAAGAGGGCCAAGGAAGA

G GA $A$ A $\operatorname{GA} A \mathrm{~A} A \mathrm{~A} G A A G G A A G A A G G A G A G A G G A A A A G G A A G A A A$ A A A GAAA A A GAGAAGGGGAGAAATAGGAGGAAAAGGCCCAAA A A A A A ATTGGCCGGAAAGCAAGGAAACCAAGAGAAGGAGAGG A A G GAGAAGGCCGGAAGGAAGGGGGGACGAAAAACCAACAAG CAGGAAGGAAGAGGGGAAAACAAAGGGGAGCACACCCAGAAA C C G A A A G G CA $\mathrm{C} G \mathrm{G} G \mathrm{G} G \mathrm{G} C \mathrm{C} A A C C G G G G A A G G G G A A A A A A A A A A$ A A G G G A G A G A A A A G G A G G G G G G G G G GCCAAC GAT GAAC A A G G G G GAGGAGAAGGAAGGAACCAGAAAGCCGAGAAAAAAGAAAG G G A A G GCC $C$ G G $\operatorname{CA} A G A G G G A G A A A A G G G G C C G G A A G G A A A A G G$ AACACCAAGGAGAGAGGGATAAAGAGGAATAGAAAACAAAAA AAAACGAAACGAGGAAAAGGAAACAAAAAGGGAAAGGGAAGG GAGGAGAGGGCAGAGGCAACGAAAGGAGAACGATACGAAGGG A A A A GAGGGAGGAAGGAGGAACAGAGAGAAAGAGCCAGAACA G GAAAGGGAACCAAAGAGGAAGGAAGGGAAGAGACCTTAAGA AGACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAGGAGG AACCGGGGGGAAAGAAGGGCGAGAAAGGGAGAGACAAGGGGA G GCCCAAGAACAGAGGAGGGAAGGAAGGCCGGAGGGCAGGGG A GAG $A \operatorname{GCA} A A A G A G G A A A G G A A A G G G G A A G A G G G G G G G A A A G G$ G GAGAAAGAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAAG A A G G A A A A C C C A G A G G G G G G G G A G T A A A A A $\mathcal{A} G G A G G G A A G A A$ A GAGAACCGGAGGGAGGGGGAGAGGGGAAGAAGGGGACAAAG G G G GCCGGAGAAGGAGAGACAGGAAAGAGGGGGGAAACCCCC G G A A G G A A G GCCAA G GAACCAACCGGGGAAAAGGAAAACAAA C CAACCAGAGGGAAGACAGACAGGGGAACCAAAAAAGGAGAA G G G GAA A A A A A GCCGGAACCGGGAAAGGGGACAAGGCCAGAA G GAGGGAAAGAGGAACAACAAGGGGGAAGGACAAAAGGAAGG G G G G G GAA $A \operatorname{GGA} C \subset G G A A A A G G C C A G G G A A A A A G G A A G G G G G$ G GAGAGGGGAAAGGAAGGAAGGAAAAGAAAGGGGGAAAAAAA $G G A G A A A A G G C C G G A A G A C C G A A G A T A G G A G A G G G G A A G G T T$ $A A C C A G A G G A C A G A G A A G G A A A A G G C A A G A C A A A C C A A A G B$ G G A G A A G G G G G A G A G G C C G G A G G G A A A A G G GA G G A A G A G G A A AAAGAAGGGGAAAAAAAAAGGGAAGGCCGGCCAGGGGGGGGG A A G G G G G G A G G A T T A C A A G G G G G G G G G G G A G G G G G G G G A A A C A A G G G G A G A G G G A A A A A A G G A G G G G G G G C A A C A A G GAAC CAC G G A A G GCAAACCGAAGAAGGGAGAGAAACGAGCCAGGABAAG C CAACCAAGGAAAAGGAAAGCCAGGGAGGGCCAAGGGGGGGA A A GA $\operatorname{A} A \mathrm{~A} G A C A G G G G G A A G G C C A A A C G G G G C C A A A G G G G G A A$ G GAAAAGGAAAAGGGGGGGGGGGGACAGAAAGGAGAAAGGGG A A A A A G G G A A A A A $\mathcal{A} A G G G A A G G G G A G G G C A A G A A G G A A A A G G$

 $A C G G A A G G A A A G A A G A T T G G G G A A A G A G A G G A G G A A G G G G G G$ AACCGAGAGGGGACGGGGGGGAAAGGAGCCGGGGCCGGAAAC

 A G A G A A G G A G A G A A G G G G G G G G G G T T G G A A A A G G A A C CAA A A
 AACCAACCAAGGAACCGGGGGGAGAGCCGAGAAGAAAAAGGG G G G GCCAA $C$ G G G A A G G GAGGACAAAAAGAGGAGAAAAAAA A A GAAAAGCCAGAGGGCCAGAAGAAAGAAGGATTAAAACAGGAA A A G G A A G G G G A G G G A G G G G G G A A G A A C C G G G G A A G A A A G G G G A A G G GAGA $A \operatorname{A} A G G \operatorname{A} A A A G G C C G G T T A A G G G G A A A A C A G G A A A A$ GAGGGGAAGGAAGAAGAAGGAAAGAAGAAGCCBAAAGGAGAA AGGGACGGCCAAGAAAGAAGCCAAAAAGAGAAAAGGAGGGGG GACAAAGGCCGGGGAAGGGGAAAAGGAAGAGAGGCAAGCCGG A G G G G G G A G A A G G A G G C A G A C C G G G G G G G G A G G G A C A A A A C C
 A A G G T A A A G G G G G G G G A A G G A A A GAA A A G GAA G G G A C G A A A A GAAAAGACGGAAAAGGACGAGGCACCACACAGACAAGGAAAG

AAAGGGGGAAGACCGGGGAAAAAAGGAAGAAAGGCAAGAGAA G G G G G G G G A GAAAAAGAGAAAAGGAGGACACAAACCAACAAA C CAAAGGAGAGGGAGGGGAGAAAAGGAAAAGGCCACGGAABA GAAGAGACAAGGAAGGGGACGGCAGGCCCCGGAAGGCAGAAG G GAAAAAGACGGGGAGAGGCATAGAAGAAATAGAGGGGAGAA G G G A G A G G G G A G T T A A G G G G G G G G A A C C A A A G A A A A G G G A G G A A A G A A G G A G G G A A G G A A G G C G A TAA $A$ A A G GAG GAA G G G A A G G AAATACAACCAAGGAAGGGGAAAAGGTAGGAAAACAAAAAGG AACAGGGGAACAAAAAGGAGGAACGAAAAAGGGAAAAAAAAA AAGAACAAAAAACACAAAGGAAGGAACCGAGGGGAAGGAAAA $C \subset G A C C A G C C A A A G A G A A A A A A A A G A G G G A G G G G G A A G A A C C$ GAAACAAGAGAAAAGGAGACGGCCAGGGGGGAGAAAGAAAGB G G G GAA A GAA $A \operatorname{AGC} C A A G G A A A A A A A A A A G G A A G G A A A C A G G G$ A A A C G A GAGGAAGGGGAACAGAGAAAAAGGGGGGAAAGAAAA GAGGAAGGAAGGAAGGGACAAAAAAAGGAAGGCACCCCAABA G GAAA A A A G G G G G G G GAGCAGAAGAGAAGGCCAGGGAA GAAA A A A A A A A A G G A A G A A A GA $\operatorname{A} A A A A G G A G G G A G A G A A G G G A A A G B$ A G G GACGGGGAACCGGGAAAAGCCCCGAACAAAAGGAGAGAG AACGAACGGAAGGGGGGAAACCGGAAAAAACCGBAAGGGGCC GA $A$ A $\operatorname{A} G A A \operatorname{A} A \operatorname{A} G A G C A G G A T A G G G G G A G G A G G G G G G G C B G G A$ GAGGAGCCGGGAGGGGAAGGGGAAGGAACCAGGGCCGAAGGG A GAGAAAAGGCCCCGGGGAGAAGGGGGGGGAAGGCCGAAGAA
 A A A C G GAAA ACCGGAAGGAAAAGGGGCAGGGGGGAACCCCGG
 G G G GAGAACAAGCCGGAGGAGAGGCCGAAAAAAAGGAGACAA CACCGGAAGGAGAAAAAACCAAGGAAGGAAGGGGGAAAAAAA GAAAAAGGGGGAAACAGAGGGGAGCCAGAAGGAGGGCACCAA A A A A A GAGGGCAGAAGAACCAAGGAGAGGGAACA GAGGAGGG CAGGGAAAGGAAGGGGAAGGGGGGGAGAAAAAGGAAGGAAAC G G A A A A C A G G A A A G G G G G G A A G A CAACCAAAAAC GAA GA GA G GCAACAGGAAAAAGAAAAGAGGCCGGAAAGGGAGAGAAAAAA C CAAAAAGCCGGCAGAGGCAGACCAAAAGGCAAAGGGGGGGG A A G G A A T T G G G G CACAAACAA GAAGGAAAAGGAGAGCCGGGG C CAA A A G G A G G A A A A A A GAGAGAAGGGGGGGCAACCAAAAAA G GAA A G G G A G A A G G A A A A A A A A C C A A A GAACC GAAAC CA GAC A GAACAAGGAAAAGGAGGAAGGAAAAGGGGAAGGGGA
AAAGGAAAAAAGAAGAAGGAGAACCCGAAGGGGGGAAAAAA A A GAAAAGCCCCAAAACCAAAGGGAGAGAAAGAGTTAAAAAA C C G G G G G G A A A C G G G G G A C C G G G G G G G G C G A G A G A A A A C A G G AACAAGACGAAGAGAGAAAGAAAGGACAGAACAAAAGAAGAG A A C C G GA G A A G G A A A A A A G G A A A A G G A A A GAA G GAA G G A A A A A A A A A A A GCAG GAAAAGGAAAGGGAGAAGAAAAAAGGAGGGG CA $A G G G A G G A C C G A A A A G T A A A G G G A G G G G G G A A A C A G A A A G$ GA G G G A G A GAACCCAAAAAAGGGGAAAAGGAAAACCCCAGAA GAAAAGAGAAGAAACCAAGGAAGGAATAAAGGAAGGCCBGCC AAGGGGAGAAAAGGAACACAGAGAAAGGAAAGGGCAAAAAAA G GCCGGAAGGAAGAGGGGGGGGGGAAGGAACCGGGGAAGACG G G GAGAGGGGAAGGCAAAACAGACGGCCGACCAAGGGGAAGA A A C C G A G G A A A A G G A A A A G G G G A A G G C C G A A A A A G G G A G A A G G GACAAGGAAAAAAGGCCAACCAGAGAGGAAAGAAAGGGGGA A G G G G GAAAAAAAAGGGAGAAGGGGAAAAAGGGGAGAAAAGGG GACACCAATTAACCCGAACCGGAGAGACAAAAAAGAAAGGGG AAAGCCAAGAGGAAGAGGAGGGCACCGGCAGGTTCCGGAAGA G GCCAAGAGAACAGAGAAGGGGAACCGAGAGGAGCCGAAAGG
 A GACCCTAGGAAAGGGGAAACCGAAGCCTTAGGGGGCAAAAG
 $C C G G G G C C G G A G G G G A A A G G A G A A G G A A G G A A G G G G A A A A A A$

G GAAGGGGAGGGCAGGCCAGAGGACCACAGGGGGAAGAGACA A G G G A C A G GA G GAGGGCCAACCGGGGGAAAAAACGACCAAGA A G G GCAA $\operatorname{CA} A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} C A A T A G A G A A G G C C C C A A A A G G G A A A$ GAGGGACCAAAAAAGGCCGGAGGGAAAAGAGGGACAGGGACC GACCAAAAGAAAAGCAGAAAAAGGGGAAGGAAGAAAGGGGGG A A G G G G A A G G A A G G A A $\mathcal{A} G G G G G A A G G G G G G G G A A G G G G A A A A$ AAAGAGGAGAAGGGAACCGGAAGGAAAAAAAACCAAAAAAGA G G G GAAACAAAAGGGGGAAAAAAGCAAAGAGATTAGCCAAGBG C C A A A A G A G G G A G G A A A T GAGGCAGAAAGACCAAG GAAG G GA A A A GAACCGGAAGGAAGGCCCCAAAAGAGGAAAGGGAGGAAA A G GAAAAAAAAAGGCAAGCCAAGACAAAAGGGCAAAAAAGGG G G G A A A A G A C G GAGAGGGAAGAGAGAGAGACCGGAAGGAGGG
 G G A C T TA GAGAGGACCAAAGGGAAGGAAAAGAGGAGCCAGEG G G G GAAAAGGGGAAAAGGGGGGGAAAGGCACGCCAAGGACCC CAGGAAAAAGAAGGCCAAGGAAGGCCGGAAAAGGGGAAGGCC G GAGGGGGAAAGAAGGGGAAAACCGACCGGCCGGCGGGGGCA G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A G G A A G G G G G G G A $A C A A G G A A A A G G A A G G C C A A A A A A G G G A G G A A G A G A G G A G G G$ A A G G G GAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACC G G G G G GAAGGAAGGCAGGAAGGCAAGAGGGGGGACCGAAAAA GAAGGAGAGGAAAAAGGACCGGCCAGAGAGAGACAGGGCCAG

 AAAAACCCGGAAGGAAAACCGGCACCCAACAAGGAGGGAGAA A GAACCGAGGAAGGAAGGGGGGCCGGCCAGGGGGACGGAAGG A GAGGGGGGGAGGAGGCCTTAGGAGGCAAAAGAGGGGAGAAG C G G G G G G A C G C A A C A A G G G A G G G G G G C C G G CA $\mathcal{A} G G G G G A A A A$ A GAGAGAAAGGGGGGGAAAAAGAAAGCACAGGAAAAGAAAGA AAGAGAAGAGAGGAGAACAGAGTAGAGGGGAAAAAAGGAGAA AAAAGGCCAAGGAGAAGGGGGGAGAGAAAAAACCGAAAAGGG G G GAA ACCACGGGGAAGGAAAAAGGGGAGGGGAAAAGGGGGG G GAAAGGAAGGAAAAAGGCCACGAACACGGGGAGGGGGCAGG G GAAAAGGGGCCAGGGAAAGCCCCAGAAAAAACCAAAAAGGA GAGGAAGGGGAGCAGAAGAGGAACAGAAAGGGAAGGGGAGAG $G G A A C C A G A A A A A A A A G G G G A A A A A G G A G A A G C A A A A G A G A A$ G GAGGGAAACGAGGACGGGGAAAAAAAAAGAAAGGGAAGGAG G G G GAGGGGAAGGGCCAAGAAGAAGGAAAAAAAAGGCAGGGG G G A A A G A G G A G G G A G G C A G A A A G G C C G G G A G G A A G G A G G G G G
 $G G A A C A A A A G A A A A A C A A G G G G C A G A A A G G G G A G A A G G A G A C$ $A C G A A C A A G G A A A G C C G G T T G G A G G G A G A G G A G A A G A G A G G A$
 A G G G G A G A G A A GAAGGAGAGCCCCACGAGGGAGGAAGAAAGA A A G G A A G G G G A A A A GAAAA A G GAGGGAAGAGGCAACGGAGAA $G G A G A G C C G G G G G G A G G G A A G G A A A G A A G A C A G G A A A A G G A C$ G G G G G G GAAACCAGAAGGGGATAAGGAAGGAAAAAAGACCAG AAACAGAGGGAGGGAAAACCAAGGAGGGCACCAGAAAAGAAA G GAAAAGGGGAACCAAAAGGCCAAGAAAGACAAAAAGAGGAA A GAACCAAAAGGAGGGAAGAACGACAGACCAAGAGGAAAAAA A A G G A A G G A A A G A A A A A A G G CA $A G G G A G G G G G G G G G A G A A C A$
 A A A A C A A A A A A A A A A A A GAAGGGGAACAAGGAGGGAA GAAAG A GAAAGAAGAGAAGAGGGCCCCAAAAAAAACCGGGAGGGAGG $G G C C G A C A A G G G C C A A G G G A A A G G A A A G G A G A A A G G G A A A G A$ G GAGGGAAAGGGAAAAGGAAGGGAAAAAAAGGAAACAGAGAG $G G A A A A G G G A A C G G G C G G G A G G A A A G A A A A A G C G C A G G A A A A$ G GAGAAAACAGGAAAAGGGGAAAAAAAAAAGGGGAGCCCAAA $G G A A A A A G G G A A G G A C G G G A G A G A G A G A A G C A A G A G G A A A A G$

A G GAAAAAAAAGGGAAAGAGAAAACCAGAAGGAGAGGAGGGG G G A A G GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAACACAGGAGGGAAAAAAGAGGGGAACCGG G G G G A GAA $A \operatorname{GGG} G \mathrm{G}$ GAAAAGGAAAGGGGGGGCCGGCCCAAAGG A A GAGGGAGGAAAGGAAAGAAGGAAACCAGAACAGGAGAGGG A A A A A A G G A A A A G GAAGGGGGGCCAAGGAAGGAAAACAAAGA C C G G G G G G A A A A A A A A G GAAC CAA $A$ A G G GAAAAAA G G GAC G G C C GATAGGAAAGAACAAGGAAAGGAAGAAGAGAGAAAACCAGAA GACCCCGGAAGGAAAACCAACCGAGGGGGGAAAGGCAAAAAA G G A A G G A A G G C C T A A $\mathcal{A} G G G G A G G G G G G A G G G A G A G A A A A G G G$ GAGGAAGGAGAAGGGGGGACGAAGGGAAAGGACCGGCAGGGG
 G G G G G G A A A A C C G G C A A A G G G G G G G A A A A A A A A A A A A G C A A G G G G G A A C C A A G A GAAGCCAAAGCACCCCAAAAGGTTAAATAA G A G A A A G A A A A A G A G G G A A GAGGAGAGGAGCAGAA GAA G GAA CAAAGGGGAAAACCGGGCAAGAGAGGGCAAGGGGGGCACAAG A A A A G G G G G GAAAATTGGAGAGAAAGCAGGCCCCCCGAAAAG A GAA $A \operatorname{GAA} A A C G C A A A A G G A T T A C C C A A G G G G C C G G A A G G G G$ A GACGGACAGAGGGGGGGACGGAAAGGACCGGGAGAGGAAAA $G G T T A A A G A G G A A G A A A A G G G A A A A A G G A A G G G G A A G G A A G A$ G G A A A G A A G G A A A A G G G G G G G G G G G G G G A A G G A A G G C C G G G G $C C G G A A G G C C G G G G G G G G C C G G G G T T G G C C G G G G G G G G A A G G$ C C T TAAAAGAGACAAGGGAAAAAAAAAGAAAAAAAAGGEGAA T TAA A A A G G GAAGGAAGGCCAAAAGGGGAAGAGGAAAAAGAA
 G G G G A A A A A A A GAATACCAAGGGGAGGAAAGGGAGGAAAAAA G G T T G GAA $A \operatorname{GA} A A A C G A G C C C A G A G G A G G G G G G G G G A A G A A A$ A A G G G G G G G GAAAA A GAAGGGGAAAAAAGGAGGGAAAAAAAA G G G G G A G G G G A A A A A A G G G A A A G A A A G G A A C C G G A A A A A A G G G G A A G GCCGGGGGGAAAACCAAGGAGGACCAAACAAAAAAAA A GAAATAGTTGGAAGGAAAGAAGAAGGACGCGGAAGAATTAA A A A A A A A $\mathcal{A} G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G A G A A$ AAAACCAAGGGGGAGACCCAGGGGGGAGAAAAAAAAGGGGCC AACCAAGACCAAAACAAGAACCGGAGAAAAGGAACCAACABA
 CAGGAGGGAACCGGAGAGAGAACCAGCACAGGAAAACCAGAA A G G G A C G G G G A G A A C G C A G G G G A A A G A G A A G G C A A A G G A A G G AAGGGGCCGAGGGAAGGGCCCCCCAAAAGAAAAAGGG
$G C \subset G G G G G G A C C A A G G G A C A G G G G G A A C C G A A C C C C C C C G G$ A A G G A A GAGGAGAAAACCGGGGGGAAAAAAAAGGCCAAGAGG
 $A G A G A G G G G G G G A G G G A G G G G G G A G A A A A A G G A A A A A A G G A A$ CA $\mathrm{A} G \mathrm{G}$ G A A A A G G G G A A A A T T G G G G C C G G G G A G A C G A C C C C A A A ACCACAAAAAAAACCAAAAGGGAAAGGGAGGCAAGAAAAGA G G A A C A A A A G A A G G G G A A A G G G G A G G A A C C A A A G A T G G A G G G
 AAGGAAGGCCAAAAAAAGGAGAAGCCGGAAAAGGAACCCCGG GGGGAAAACCAGCGGGAGAAAAAAAAAAACAAGGGGGGCCGG G G G G G G A A A A G GAAAAAAAAAAAAAAGGAAAGGGGGAGA GAA AAAAAAGACCCCAGGGGGAGGGAAGGAAAGAAGAGAAGAGGG A A G G G G A A A A A A C C A A A A $\mathcal{A} G G G A A G G G G G A G G G G A A G A A A A A$ AC G GAGGACCTTGGGACACAGAAGGCGAGGGGAAGGGGAAGA G G G G G G A C A G G G G A A G A T A A G G G GAGGAGAGCGGGA GAAAA $A$
 AGGGGAAACCGAGGGGGAGGGAAGAGAGAAAAAAGGAACCGA G GCCTTCGAGAGAGAGAAGGGGAAAGAGAAGGAAGGAAAAAA A A A C A A G A GAGGAAGACGGAGGGGGGAAGGAGAAGGGGAAGAG
 G G A A G GCCAGGGGACCGAAAAAGAAAGACAAGGAAGGGAAAA T TAA A GAGAACCAAGGGGGGGGGGAAGAGGAAGGAAGCGAAA

AAAAAAGGGCCAAGGAAAAGACCAACCAAAAGGAAAGCAAT G GAAATAGGCAAGCAAAAGGAAAAGGAAGGGAAAAGCAAAGA GAGGGAAGGGAAGGAAGGAAGGAGGGGGCCGGAACAAGACAA G GAA $A \operatorname{GAAAAAAAAAGGAGGGGAGGAAAAAGAGAGGAGGAAAA}$ A G G GAA $\operatorname{A} G C C G G A A A A T T A G A A A A G G G G A A G G A A A A G G A G A G$ CAGGGGAGAGAGGGACAAAGAGGGGGAAGGAAAAAGCCCGGG AAAAAAGAGGGGGGGGGGCCGGGAAAGGGGCCGGCCGAAGAA AGAACCAAAAGGAAGGCCGAAAGAACAAGAAAAAAAAAGGAG G G G G A A G G G G A A G G G G C C A A G G A A A A A A G G G G G G G G A A A A A A GAGAAAAAGGAAGAGAAAAGAAGGGGGGAGGGAAATAAGAGG G G G G G A A A GAGAACAAAAAAGGAAAAAACCACGACCAGAA GA A G A A G G G G GAA $A \operatorname{GG} \operatorname{G} A \mathrm{G} C A G G C C A G C C G G G A G A A A A A A G A G G G$ G GAGAGACGAAGCCCCGGGAAGAAAAAACCCAAGCCGGAGGG GAGAACGGAAACGGGGGGGGGAAGAAGGAGGGGGAAAAAAAA AAAAGGAAAACCAAGAGGGAACGGAGGGATCGGAGAGGGGCC AA G GAAAAGAGGAAACGAAAGGAGAAGGAAAGGAAGAAAAAA AA $A \operatorname{GGG} \operatorname{GA} A \mathrm{G}$ GAAAAAAGAAAAGAAGAAGGAGAAGGAGAAAGA A GAA A GAAAAGCCGGGGCAGACAGATAAAAAAAGGAAAGAGCC GGGGGGAACCGACAGAAAAAGGGAATTAGAGGGGAAAAAAGA G GCCGGGGAAGGGGAGAAGGGGAAAGAGCCAGGACACCGGGG ACTAAAGAAAGAAAGGAAGGAAGAAAGGAAGGAAGAGAAACC AAGGAAGGCCAAGGAAGGCCCCAGAGGAGGGGGAAGAGAAAA G G GAGGGAAAAAGGGGAAGGGGGGAAAGCCACAGGAAACCGG
 AGGAGGGAAAAGCCACAGGGGAGGAACCCAAACCGGAACCAA G G G GAA AGAAAAAGAAAGGGAATTAAAAGGGGGGAGAAAGGG AAAAAAAAGGAAAAGGGGAAGAGGAAGGAGGGAAGGAA GAAA
 C C G GAAGACCAAGGGGGGCAGGAGAAGGCCAAAGGAGGAAAA CAGGAAGAATAGAGAGAAGGACGGAAAAAAGGAAAACCAGAA GAAAGGGGAAGGAAAAGGAGGGCCAAAAGGGAGAGGAGAAGA GGAAGGAGACAGCAGGGAAAAGAGGGAAGGGACAAAGGAACA $C C G G A G G A A A A G A A A A G G A A G G A A A C G A G A G A A A A A G A C A G A$ G G G GAAAAAACCGAACGGAAGGAAGAAAGGGAAGAAAAGGAG G GAGAACCGGGAGGGAGAAGACGGGGGACCAAGGGGGGCCAA A G G G G G G G G G A G A G G G A A G G G A G A A GA A A GAA A G A A G G C C C A ACAGAGGAGGAAAGAGGAGAAAGGGGGGAAAAAAGGGGAGAG G G G GAA $A \operatorname{GAA} G G C C A G A A A A G G A G G G G G C C G G G G A G A G A G A C$ G GCCAGGAGGGGACGAATGAAAACTAGGGAGGGAGGGGCCAG A GAAA A $A \operatorname{GGGGCC} G A A G A A A G A G G G A A G G A A G G A A A A A A A G A C$ C CAGAGACGGAAGGGGAAGAAAGGCCGGAAAAAAAAGGAGAA G G G G GCGAGAACAAGGGGGGCCAAGCAAAGAGAGAGAAAGAG
 G GCCAAAAGGGGGAAAAGAAAGGGAACCAAAGAGAGAGAACC G G G GAGACACAAACAACAAAGGGGAACAGGAGAGGGGAAAAA AAAAGACCCCAGAGGACGGAAAGGCCAGGAGAGGGGAGAAAA AAGAAAGGAAACAGGAAGAAGGAAAAGGGAGAACCCGAAAAG GGGCAGAAGAAGACGAGAGGGGAAAAAAAAAAACAGCCAABA CCGGGGGGAGAACACAAAACAGGGAAGGAAAAGAAGGGGGGG AACCGACCGAGGAAGAAGAAAAGAAGAAAGCAAAGGAGCCGG CACCAAGGGGAGGGGGAAGGGAGGAGGGGGCCAACCGAAAAA G GAAAGGAAAGGAAACGGTTGAAAGAGGGGAGAAAAGGAAAA $A G A A G G G G G G G G A A A C A A G G A A G G A A A A G G A A A A G G G G G G G G$ AACCAAAGAAGGAGAGAGAAAGGAGGAGGAAAGGAGAAAAAA G GCCAGGACAGGAAAAAGAAGGCCCCGGAGGGGGAGAAAAGG G GAA A G G A A C G A G A G G GAGGAAGGCCGGGGGGAA GACA G GAA CAGGGGCCACAGGGGAGAAAGAGGGGGGGAAGGGGAAAGGGG A GAGAAAAGGGGAAGGAAAAAAAAGGGAGAGAGGCCGGAAAAG $G G A G C A A A G G A A A A A G A A G G A A G G G G G G G G C A G G G G A C G G A A$

GACACAAGGAAAGAGGAAAAAAAAGGGGAGAAGAGAGGCCGG T TATCCGGAACCAGGGAAAAGGAAGGAAAAGGGGGGAGABAA A A A G G G G G A A A $\mathcal{A} G G G G G G C C G G G A G A G A G A A C A A G G G G A G A A$ G GAAGGAGAGGGGGGAAGCGAGAAAAGGCCGAAGGGGGAAAA AAAAGGAAGAAACCGGAAAAGAAAAGGGAGAAAAAAAAGGAG AACCGGGGCAAAAAGGGGAGAAAGAGAAGGACGAAAGGAGAA A GAGGAGGAGAAAAGGAAAGGAAGGAAGGAAGCAAGAAAGAA AAAAAAGGAGAGGACCACGGGGAAAAGGAAGGCCACGGAGAA A A G G G G A G A A G GCCAAAAA A G G G G GAAAGGAAA GAAA GAA G G G ACACGAAGACAAGAGGAGGGGGGGAACCGGAAGAGAGGCCAG AA G GAAAGGGCAACAGAAAAGGAGAAGAAAGGAACCAAGGCC C C G GCAACAAGAAAGGAAGGGAGAAAGGGAGGGGGGAGAGAA A G G A C A A A A A A GCC G G GAAA A GAGGAGGAGAA GA GGGGCC G G AAAGGGAGGGGAGCACGAAAAAGGGGGAGGAAGAACGGACGB CCGGTTAAAAGACACCGGAAGGAAAAGGAAAGGGCCATGGGG A G G G G GAGAGAAGGAAAAACAAAACCAAGGAAAATTAAAAAA G GAA $A \operatorname{A} A A G G G G A A A A A A G G A A A G G A G G A A G A G G A A C C A C C C$ AAGACCGGAAGAGGAAGGGGAAGAAAAAGGGACCAGGAAAAA GGGGGGCCAAAAAAAAAAAAGGAACCCAGGCGGGGGAAAAAA A GAGGAAGAGGAACAGAAAACAAGGAGGCCAAAGAAGGAAAA $A C G A G A G G G G G G A A G G G G A A A A G G A A A A A A G G A A G G A A A A G A$ AA G GAAAAAGGAACAAAAAGAAAGCAAAGAGAAGGAGAACAG $G G A A A G A C A A A G G A G A A G C A G A A A G G G G G G G G C C A G A C A G G A$ A G GA GA A ACAA GAAAAAAGAAAGGAAGAGGAAACCCGGGGGG G A T T G A G G G G C C A G A G A A A A C C G G G G A A A A G G G G G G G G G G G G G GCCGGGGAAAAAAAAGAGGAACGGGAAAAGAAGGAGGAGAA G G G GAGAAGGGGGGGGAAGGAAGGAAAACCAAAAATAACACC
 $A C A A G G A G A G G G G G A C A A A G G A C A G C G A G A A G A G G A G A G C G G$ $G G A G C C C A G G A A G G G G A A A A C C G G A A A A A A A A G A G G A A A A C A$ A G G G G G G G G A A G G A G G G G A G A A G A G G G A G G A G A A A A C C A A A A G G G GAGAGCAAAGAGGAAAGGGGAGGGGGAGGAAGGAAGAAA
 G G G G A A G A A A A C G G G G G A G A A G A GAAC CAAAA $A$ A G G G G G T T G G G GAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGGAA G GAA A G G GCCAAGGGGCAAATTGGGAGGAAGAGGAAAAGGAA AAAAGGGGAAAAGGAGCCCCGGCCAAGAAGACAAGGC
CAAAAAGAAAAAACCGGGGGGAGGGAAAAAAGAGAAAAAAG G G A A A A C C G G A A A GAA $A \operatorname{GA} A G A G G A A G A A A G A A A A A A A A A G A A$ G GAA A G G G A A G GAAAATTGAAAAAAGAAAGGAAGGAAAAAAA AAGAAAGGGGGAAATTCCCCAGGGAAGACCAAGGGAAGAGAA G G G G G GAACCGACCAAAGGACAAAAAAAGGAAGAAGAAAA GA AGACAGAAAAAGGGGGGGGGAAGAAGAGAGGGAAGAGGGGAG A GAGAGAAGCAAAAAAAAGGGAGGGGAAAAGAGGAAGABAAA
 G A A A A A G G G G A A G GCCAAAAGAAGCCGGAAAAGAAAGGGGAC A GTTAAAGGAAAAAAAAAAGGGGAAGGAAAACAGBAAAAACC AACCAAAAAAAGAAAAGGAAGGAACCAAGGAAGAAAGGAGAA A G GACAAGGACCCAGGAGCCGATAGAAAGGGGCCAAAAGGAA A A A A A A A A G G A A G G A A A A A A G G G G G GCCGGGGGAAGGACAAC AAAGAAGGAGAAGAGAAAAAAAGGAAGAAGAAAAGAAAAAGG AACCAGAAGAGAGAACCCAAAAGGAAAGAAAAAAGGGGAAAA G G A A A A A A G G G G G G A A G G G G A A G G A A G G G G A A G G G G G G G G G G AAAAAAGGAACCGGAAGGAAAAGGGGGGAAAAGGAAAAAAGG
 A A G G G G G G G G G GAA A G A A A G G G A A A A A A G G C C A G A G G G G G G G
 $G G G A A A G G G G C C C A A A A A G A A A A A G G G G G G G G G G G G G G A G G G$ $C C G G C G G G G G A A A G G A A A C A T A A A G G G G G G G G G A A C A G G G G A$

G GCAGAACGAGAGAGGAACCAACAAGAAAGAGATAAAAGAAA A A A GAA A GAAAAGGCCAAAAGAGGGGGAAGGACCGGAAAAAA A A A A G G A A G G G G G G A A G G G GAAAAAAGGGAGGGGAAACA GAA G $C \subset A G G G A A G G A G G G G A C G C C C C A G G G G G A A G C A A A A G G A A A A$ GACCAAAGGAAAGGAAAGTTACGGGGAACCAATTGGGGGGGG
 G GAACCAGAGAGGGGGAGAAGGCACCGGAAGAGAAGAGAGAC AAAGAGGAAAAAGGACCCAGAGAAGGAAAAGGGGGAGAGAAA A A G G A A A A G G G A G A G G A A G GAACCAGCAGGAGGAAGA GAAA G AA G G G GAAAGAAAGAAAAGGGGGAAGCCGGAAAAGGGGGGGG GAAGGGGGGAGGCCAAAGAGCACAAAAACAAGGGGGAAGGAA A G G A G GCCAAAGGGAGGAAAACCCGAGGAGAAGGGGACACAC $G G A A A A G G A A G A G G A G A A A A A A G G A G A A A G A A C C G G G G G G C C$ C CAAACGCCCAAGGAAAAGGAAGGAAAAAAAAAGGGAAGGGG G GCCAAAAGGAAAGGGAACCCCAGGGAACCGGAGGGGGAAAA AC GAACAGGGAAAAAAAGGGGAAGAGGAAGAAAGTTCAAAAG
 A GAG $A \operatorname{G} \operatorname{GAA} A A G G G G G G A A G G C C A A C C G A G G A A A A A A G G A A A A$ G G G GAGGGGAAGAAGGAAAAGAAAGAAGAAGGGAGGGGAAAA GAAAAAGGGAAGAGGGGAGGGGAAAAGCAGAAAAGGGGGGGG G GAAGGGGGGGGAAGGGAGGAGACGAGAGGAGAAAAGGAGGG AAACGGAAAAAACCGGGGAAGGAAGGGGAGCCGACCAAGGAA GAGGAGAAAAGAGGGACCAAAGAGGGGGACAAGGAAACAAAC A A GAGACCCCGGAAAAGGGGCCCCGGAAAGGAGGACAAAGAG A A A A A A G G A A G A A GAAAA $A \operatorname{A} G \mathrm{G} G A A A A A A A G G A A G G A A G G A G G G$ ACAAAGGGAAAAGGGGAAGGAAGGAAGGGGAAAAAACAAAAG G GACGGGAAAAAAGGGCAAGACAGGGCAGAAAAAGGAAAAGA
 G G G G G GAAAAAACCCCGGAAAAGGGGGGGGAAGGGAAAGGGG AAGGAACCGGGGGGAAGGAAGGAAAAGGGGAACAAGAGAGAA A A G G C C G G G G A A G G A A A A A A G G G G G G C C C A A A A G G G G A A C G A AAGGAAGGACGAGGGAAAGGGAAGAGGAAGGGGGAAGGGGAA A A G G A A C C A A G G G G G G G G G A G A G G G G A C A A G A GA G A G G T T G G
 G G G C A G G G A G G A A A A A G GAAAC A A G GAAGGGAGGTTAAATGG G G G G G G G A G G G A A G G G G G G G G G G A G G A G T A G A A A A G A A A G G A $C \subset G G G G G A A C A G A G A A G G A G A G G G G G A G A A G G A A A A A A A A G G$ A A A A A A G GAA $\operatorname{A}$ G G GAAAGAGGGAAAAAAGCGAGGAAAACCAA C CAG GAGGGGAAAAGAAACCAGAGAAACGAGGGGAGAAAAA G A GACAAACACGAGAGGAGGGCCCCCCGAGGGGCACAAACAAA G GAG $A \operatorname{GAC} C G G G G G G G G G G G G A C C C G G A A C A G A G G A A G G A C A C$ G A A A TAGGAACCAGAGAAGAAAAGGGGGAAAACCGGGGAAAA G G G G A A G G A G G A A C G GCCTAGGACGGAAGGGGAAGGGAAAA G G GAC $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A A G G A A A A G G G G G A A G G A A A A A C A G G G G$ AAAGGAAAAGAGCCCCAACCAAAAAAAAGGGGGGAAGAAAGG G G G G A G G G C C C A A G A G G G G G A G G A G G A G A A G A G A A A G A G A G A A A A G A A G GCCAAGGGGAAGGGAAAGGCCACAAAGCCAGGGCA G GACGGAACAGAGGAAGGCAGAAGAAAACAAGAGGAGGCCAA AAGGGGCCGACCCCCAGAAAAAAAAAACGGGAAAACGAAGAC A GAGCAAGATGGGGAGGGAGGAGGGAGGGAAGGAAACAAAAA GAGAACACCCGAGGAGGGGGGGCCAAAACCAAGGAAAAGGGG G GAAAAGGGGATGGGGGGAAAAAAGAAAACAAAACCGGAAAA GAAGGGGGAGGGAAGGAAAACCAAGGAAAACCAAAAAAGGGG $C \subset C \subset A C A G A A G G G A G A G A A C A A G A G A A A C C A A A A G A G G A G G A$ G G G G G G A A A C G G G G G G G G G G G G A C T A A G A G A G G A G G G G C C $\mathcal{A} A$ G G A G G G A A A A G G A G G G G A G G G G G G G G C C G G C A A G G G G G A G G G A A G G G GAAA A $A \operatorname{AGGGGA} A A G G A A G G C C C C G G A A G G A G G A G G A G$ $G G A A G G C G A A G A A C G G C A G G G A A A G G A A A C A A G A G A A G A A G G$ AAGGAAGACAGGGGAAAGCCGAAAGGGAGAAAACGGCAGAAG

CAATAAAAAGCCGGGGAAAAGACAGGGAGGAGGAGAAACAAA A GAAAAACAAAACCGGGGAAAACCGAAAAGGAGGAAAGAGAA G G G G A A A A A $\mathcal{A} G G G A G A G G G G G G G G A A A A A A G G T T A G G G A G A A$ GGCCGGGGAAAAGGAAGGAAGCGAGAAGAACCGAGGAAAGCC ACAACCAGAGAAGAAAGGAAGAAAGGATCCGACCCCGAAGCG A GCCCCAGGAGGAACCAGCAAAGGAAGGAAAGGGAGGAGGAG G G A C A G A G A G G G G G G G G G A A G G G A G G A A C C A A A A G G A A A G G A A GAGGACAACGAAAAGCGGGGGGAAACCGAGGCCTTGAAAAA C C G G A A A G G G G G G G A A G G A A G G A A G G A A A A G G C C G G G G A G A A AAAAGGAAGGAAGAGGCCGGAAGGGGGGGGGGAAAAAAGAAA CCGGCAAAAAAGGAGGAAAAGACAAAAAGGGGAAGAAAAAGG A A A A G GAA A GCCGGGAGGAAAAAGCCAAAAGGACAAAGAGAG GAAGAAGGGGAGAAAGGGACGGAAGGGGAAAAGGCAAGAAGA $A G A A G G G G G A G A A A A A G G A G A A G G A G G A G G G A G G A G A A G G A G$ G GAAAAGGAGGGGAAGAAGGAAGAAAAAGGAGGGAAGAAAAG G G G GCCCAGAACAAAAGGAAAGGGAAGAGAGGGGGGGAGGAA AGAGCCGAGGAACCAAACCCAAACAAACGGACGAAAGGGGAA G G A A A GCAG GA A G GACGAAAAAGGAGAAGGCCGATTGGAACC G G G G G G G A C C G GAA $A \operatorname{G} G G G G A G G C A G G C C A C C C C C G G G G C C C C$ C C G G A A A A A A A G G C G G G A G G G G G G A A A A C A G G G G G A A G A G G A AAAAAGAGGAAAGGAAAAAACCGACAAGGAGGGAAAAGGGAG
 G GCAGCAGGGCCCACCAAAGGGAAAAAAGGGGGAGAAAGGGG A A G G A A A G A A G G A A C A G GAGAGGGGGGGAAGAGGGAAAAAAA A G A A C C A A G G G G G G G G T A G G G G A A C C G G A A G G G G G G G G A A G G A A A A A A G GAAGAAAAAGAGGGAAAAAAGAGTTCCGGAAAAGA GAAACCAAAAAACCGGAAGGAAGGGGAAGGCCGGAACCGGCC A A A A A A A A GAA $A \operatorname{GGG} \operatorname{GAAAGGAACCAGAACCAGAAGGAAGGTT}$
 G GAGGGGGAGCCTAAATTGAAAAAAGCCAGGAAGGACCAGAA
 G G G G G GAAAAAAGAAAAAGGAGAAGGAAGAGGGGGGAAAAAA
 G G G GCCCCGGCCGGAAGGAAGGAAGGGGGGAGACAGGGAAAG GAAAGGACAAGGCCAAGGAAGGAAGGAAACAAGGGACBCABAA GAA $A$ A A A G A A A A A G A G G A A A A G G G G G G G A A A A G G G G G G A A A A G $G A A G G G G G G G G G G A A C C G G G G G G A G A A A G C A G G G A G$
GAA A GAA $A \operatorname{A} G A A G G A A A G G G A G G G G G G G A G A A A A G G G A A A G G$ AAAACCGGGGGGGGAAGGAAAAAGAGGGACGGAAAAGAGGAG A A A A C A G A T T A A A A A A GAA GAGAGAAAAGGCCGAAAAA G GA A $G G C C G G A A A A G A A G A C A A A T G G G A A C G A A G A G A A A G G G A G G G$ AAA $A$ A AC GAGAAGGAAAAAAAAGAAAAAAGGGAGGGAAAAAA $A G G G A G G G C C A A A A A A G G G G A A A A G G G G A A G G G G G G G G A C C C$ G GCCAAGGGGGGCCGGAAAACCAAAAAGAGAAGGAAGGGGGG G G G G G GCCAAAACCGAGAGAACAAAAGACAACGGBAAAAAAG A GCAAATTAGGGAGGAAGCCGGAAGGGAACAAGGAGAAGGAG C CAAC GAA $A \operatorname{A} G A G G A G A A A G G G A G G G A C C A G A A A A G A C C G G A A$ AGGAAAGGCACCAACCAGAAGAGAGAAGGAAAAAAAGGGGAA AAAGAAAGCCAGAACCAAGGCAGGGGAAAAAAGGGAAAAAGG A A GA $A$ A $A G A A A G A A A A G G A G G G G G G G G A A G A A G G A G G G A A A A A$ A A T T G GAGAAGGAAGGGGAAGAGAGGGGCGCCAAGGGAAAGG A A G G A A A A A G G A G G GAGGGGGGCAAAGGAAAGAAAAGGAA G G $A$ $G G A A G G G A G G C A G G A G G G G G G A A A A G G G G C A A A G A G G G A G G A$ $A G G G G A C A G A A G G G G A G G G G G G A A G G C C G G C A G G G G A A A G G G$ $A G C A G G G G G A C A G G A T A A G G C A G G G G A A A A G A G G G A G G A A G A$ G G G G G A C A C C A G A A G G A A G G A A A A G GACGGAGAGGGGGCC G G A G G G A GAA A G G GAA A G A A A A G GAAAAAAAAACCAAAGGGAA G G G G A A A A G G A A A A G GA G C C G GAA $A \operatorname{GAAA} G A G A G A A A G G G G G G B A$ GAGGACGGAAGGAAGAGAAAAAGGGACCGAGGGAACCCAGAC

C C G G A A A A A GAGAA $A \operatorname{AGGGGGAGGGAGGGAGGGAGAGAAAGAA}$ A G G A A C G G G G G G G G A A G G T A GAG GAAGGGACCGGGGAAAAAA $A G G G A A G G G G A A G A G A A A A G A G G G G G G G A A A G A C A A G A A A G G$ G G G GAA A C G GCCAAAAGGGAAGGAGGAAGAAAGGAGAGGGGG A G GA A G G G G G G G GAAACAAGGGGGCCAGGGAAAAGAAACAAA GAAAGGACACGGAAAGTTAACCAGCAAAAGAGGAAAABCCAA G GCCAGAAGAAGAGACCAGGAAGGGGAAAAAAGBAAAAGGGG GGGAAGCCCAGAAGGGAGAAAGGGAGAACCGGAAAAAGGGGG
 GCAGGACCCCCCGGGGGGAAGGAAGGAGAAGAGGGGGGCCCC A G G GAA $A$ GAAGGAAGAAGAAAAGAAAGAAAAAAAAAAATTAG C CACAGAAAGAAAGGGGAAGAAAAAAAGGAAAAAGGAAGGAA G G G G A A C A A GAGGAAAAAGCCCACAGAAGGACAAGGCCGGGA AACCGGGAAAAAGGAGAAGGGGGGGGAAAAAAAAAAAAGGAA AAAAGGAACCCCGGCCGGTTAAGGAAAAGGCCAGGAAAGCBA GAGGCAGGGGCCAGAAAAAAGGAGAGAAGAGAAGAGAAAGAG GAAAGGAGACGACCGGACAAGGGGAGGAAGAGAAAGTTGGAC GAA A A A A G ACTTCCGGCCAAGGAGAGGGAAAGGAGGGGGGAG $G G C A G A G G C C A A G G A A G A A C G G G G G G G G C A A A G A A G A G A A G G$ AA G G A A A A A A A A A C GAGAGGAGAGGAAAAACCAAGACAGGCC GAGGAAAACCAAAAAGAGAAAAACCCAAAGGGGGAAGGGGAA A G G GCCGGAAGGGGAAAAGGAAAGGGGAAACCGAGGAAAAAA GA $\operatorname{G} G A \operatorname{A} A A A A A A G G G A A A A G G G G G G C C G G A G G G A A G A G G C C G G$ CCGGAGGGACAGGAAGAAAAGAAAGGAAAACCCCAAAGACAA CAAAAAAAGAGGAAAAAAAGGGACAGAGAGGGAAGGGGAACC A A G GAA A A GACCGCAAGGAACCAAAAGAGAAAGAACGGGGGG
 A A A G G A A G A A G G G G A GCGGAAACACAATGCGAGAACAAAGGA AACCGAAAAAGGGAGGAAAGAGGGCCGGGGGAGGAGACAAAA $A G C C G A G A C A A G G G A A A A A A A A A A G G G G G G A A G G T T G G A A G A$ AC G A T T G G A A C CAA A A G G G GAA $A$ A A G GA G G A G G A A G G G G G G G G GAAGGAAGAAAACCGGAGAAAAGGGAGAAGAAAGAAACAGAC A A GAGAGGCAAGGGGGGAAGGAGAAGGGCCAAGGGGCCAAAA A A A A G G G G G G G G G G C C A A A A A A A A C C G GAAC G CAAAA A A A G G AAAGGGAGAAGGAGAAAGAAGAAACCGAAGCAGGGAGACCAC GAGAGAGAAAGGGGGAAACCAAGAAAAAGGAAAGAACCACAA GAGAAAGGCAGGGGGAGAAACCAAAGGGAAGGGGCCAAGGGG G G G GCCGGGGGGAAAAAAGGCCGGGGGGGGAAACCCAAGAAA C C A A A A G G A A C C G G G G A A CAGAGAAGAGAAAGGGAAAAAA GA GGCCAGGAAACAAAAAAAAAAAAAGGAGAAGGGGCCCCCABA A G G G A A A A G G G G G G G G G G A A A A A GAAGGAACCGGAGCCAGAA A G A A A G A G A G A A G G A A G GAGAAAAGGGAAAGGAA G GAAA G GA G GACAGGAGAAGGGGAAGAGGGGAAAAAAAAGAGGGGGGAGAG A GAAAAAAGGAACCGAGGGAGGAGGGCCGAGACCGGGAGAGG A A A A A A A A A A G A CAAAAAGGAAACACAAGGAAGAAAGBCAAA
 GAGGGGAAGAGAGAAAAGAGAGGAGGAAAGAGGGAAGAAAGAG G GAGGAGGGGAACCAAGGGAGACCGGAAGGGAGGGAAAAGGG A G G GAGCCTTGGGAAAAAAAAAAAGACAGACCGGAGGAAAGG A A A A G G G G A A G G A A A A G GAAAAAAAAGCCGAAAAAAAGAGAAC GAGGAGCCAAGGGGAGAAAACCAGACAGGGGGGAAAAAAACC $A C A G G G A G A G A A A G G G G A G G G A G A C G A C A C A G G G G C A G A A B A$ GAGCAACCGGAAAAGAAGAGAAGACAGAGGGGCCGGAAAAAA

 AA $A \operatorname{GGGAAAAAAGAGGGAACCGGGGAAAGGGAAAAAAGGAAAG}$ A GCCGAAAGGCCGGAGGAGGAAGGAAAAGGAAAACCAAAGAG AAACGGAGAGGAAAGGAGAAAAAAAAAAAAAAAGAAAA GAAA AAAGGAAGACGAGACCAGAATAGGACAGAAGGCCGAAGAAAA

GCAGACGGGAGGGAAGGGGGGGAAAAGGGGAGCCGAAGGGCC A A A ACCAAAAAACCAAGGGGAAAGCAAGGAAGCCCCGAGAAG
 A A GAAAAGAAAAGGAAGGAGGAAAAACAAGAGCAAGCACCCG AACCGGAACCGGTTTTGGTTCCAGAAGGTAACCAAAGGCACC G GCCAAAAAGAAAAAGCCAAAAAAGGGGCCAAAAGAAAGGGG G G A A A A A G A A A A G G G G G GAAGGAGAGAACCCGAGAGAAAAAG AAGAAAACCCAAAGGAGGAAGGGGCCAAAAAAAAACGGGGGA A A G G G A A G G G A A A G G A G A A A A A GAGGGGAAAAAA G GAAAAAA G AAGGAAAAGGAGAACACCACGGAAAACCAACCCCGGAAGGGG G G G G GCGGGGAGCAAGAACCCCAGGGAACCGGCAGACCAGAA A A A G A A A G A G G G G G G G A A G G A A G G A A G A G G A A G A A C A G A G G G C C G GCCGGCAAAAAAAAAGGCCGGGGAGCCAGGAGGACAAGG G G A A G G A A G G G G G A G A A A A A A G A G A A A A A GAAAA A GAA G G G G G G G G A T G G A A CAG GAGAAAAGGAGGGCCAACCAAGAGAAGAA $C \subset A A A A A A T T G G A A A G A C G G G A G G A A A A G G G G A A G G G G A C A G$ GAAAA $A$ AAA $A \operatorname{GCA} A A A A C C G G A A G G A A G A A G A G G G A G A G G G G G$ G G G G G G G G A G A A A G A G G G A A A A A A G G G GAA A G G G G G G A A A A A A GAACCAACCGAAAAAAGGAGGGGAAGGAAGGGGAGGAGGGG T T G A A G C A G G A A G G A A A G G G G G A A G A C A G G G G A A G C G G A G G G GAAAGACCCCAGACGGGGGAGAAGGGAGGGAACCAGGGGAGG
 G GCCCCAGGGGAGAACGGCCGAAAAGCCGGGAGAAAGGGGGG A A A A G G A A A A $\mathcal{A} G G G G G G G A A A C G G G G A A A A A G A A G G A A A G G G$ G GAGGAAAAAGGAAAAAAAAAAAAGGAAGGAAAAAAAAAAGAG
 G G A A A A A A A A C C G GAA $A \operatorname{AGGGGGGCCGGAACCGGAAAAAAGG}$
 T TAA A GAA $A \operatorname{GA} A A A A A A A A A A G G A A G G G G G G G G G G G G C A A A G B$ GGCAAGACGCGACCGACGCCAGAGGGAAAGGAGGAGACAGGA C A A A G A G A A A G G G G C C A C A A A A G G G G A A G G A A G G A A G G A A G G G GAAAAGGAACCGGAAGGAAAACCCCGGAAGGAAGGGGGGAA G G G GCCAAAAAAGGAAAAGGAAGGAAGGAAAAGAAAGGAGAA $G G A A A A A A A A A A A A A A G G A A A A A A G G C C A A G G A A A A C C A A G B$ G G G A C C A A G G G G G G C C A G A A A C A A G G GAA $A$ A A A G G GA G G G G A A G A G G A A GA $A \operatorname{GGG} \operatorname{GA} A G A G G C G G G A G A G G A A G G G G G A A A A A A A A$ G GAAGAGACAGGAAGAGGCAAAAGAACCCCCCGAAGG
$G C C G G G G C A C A G G A A A A A A A A A A G G C C G G A G G A G G G A C A C G$ A A A GCAAGACAGAGAGAGAAAAGGGAAAAACCAGAGCAGGAA A GAAAGACAGAAAAGGGGGGCGAAAACCGAAAGGAAGACA GA A G GAGACCAGGGAAAACCAAAAGAAGAACCGGGAAAGGGCTT C C G A A A A A GAGGGGGGCCAAGAAAAAGACCGGCAGACGACCC G GAAGGAGGACCGAAGAAAGGAAGCCGGAAAAGAACGGAGAG GAAA $A$ A $A$ A A A G G G G G GCCTAAGGAAGGAAAGGAGGGAAGGGG G G G G G A A A C A A G GACCCCGCGGAAGGACGGGAAAAAGGAGAA A A A A G A A G G G A G TAAA $A \operatorname{A} G A A A C G A A A A A A A A A G G G G G A G A G G$ ACAAAAAATTGGCCGGCCAGAAAGGAAAAAGGGGGGAAAAAA G GAGAGAAAAGGGGGGAAGGCCAGAAAAAAGGAAAGAAACAA A A GAGGGGGGAAGGAAAAAGGAAAGAGAGGGGAGAAAAAGGG GGAACCCCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAGAAG G G GA $\operatorname{G} A \mathrm{~A}$ G GACCAGGGAGAAAAGGGGAAGGAGAACCAGAAGA G GCAAAAATTACAGAGGGAAAGGAAGGAAGGAGBAGCCAAGAG GAAAGGGGGGAAGGCACCCCAAGACAAAGGGGAAGCAAAAGG GACCAAAAAAAGAAGGAAGGAGGGAAAAAAAACCGAAAAAGG A A G G G A A A A A G G G GAA $A \operatorname{A} A A A A A G G G G G A A A A G G A A A G A A C C$ GAGGGGAGAGCAGAGAGGAGGAAAAGCCGAAAAAAAGGCCCC A A G GCCGGAGGGGGACAAGGCCGGAGAAAAAGAAGGCCAGAC $G G A A C C C C A A A A G G A G A G A A G A G G G G A A G G T A A A A A G G A A G B$ G G G GA A A A A A A A G G GAAGACCCGGAGGGGGGGAGGAGAAAAC

TAGAGAAAGGCAGGAAAAGGGGGAGAAGGGGGGAAAAAAAGA C C A G A G G G A A G G G G G G CA $\mathcal{A} G G G A G C A A G A A G G G A A G G G G G G G$ G GCCGAGGAGAACAAAGAAGAAGAAGAAAGAGAGGGAGCCGA A GACAGAAGAGAAAAGAAAAGGAAAGGAGAACACGAAGAAAA GAGGAGGAGGAAAAGAGGGGGGGGGAACACACGAGGACAGAA G G A A G GAAAACCCAAGAAAGAAAGAAGAGACAGGAAGGAGGG GAGGAACCAAAAGGAAAAAAACGGAAAAGAGGCCGGCCACAA G GAAGCGGGAAGGGAAAAAAGGAGACCCAAAAGGGGGATACC A ACCGGCCAGAGAGGGAAAAGGCCGAAAAAGGACAACBAAAC $C C G G G G A C G A G G A G G G A G A G C C G G G G G G A A A A A G A A A A A A G G$ A A G G G GAA $A \operatorname{GA} A A A A A G G G G G G G G G G G G A A A A A A C C G G T T A A$ G G G G A A A A A A G G G G C C G G G G C C A A G G G G C C G GCCGGAAAAA A G G A A G GCCGGAAGGAAGGGGAAGAAACAGGCAGAGGCAAAAG $A C G G A C A G G A A A G G G G A G G G G G A G A A G G A A G G A G A G A G A A C C$ G G G GAAAAGGGGACAAGGAACCGCGAAGAAGGGAAGGGGGCA $C C G G A A G G A A G G G G G G G G G G A A G G A A G A A A G G C C G G G G A G G G$ C C A GAGGAAGGGGGGGCCAAAAAAGGAGACAGAGAGAAAGAA A A A A A A G A A G G G G G GAGGGGGAAGAGAGGGGGAAAAGAAAAA A G G GAACCCCCCGGGGCCGGGGGGAAGGGGGGAGGGAAGAAG
 AGGAAGACAAAAGGGATAAGAGCACACAAGAGAGAGCAAAGG A GAAAAGGAAGGAAGGAAGAAGAGGGAAAGAAGGCCAAAACC
 G G G G G G A A A A C A G G A G G A A G G G A A A G G A A A G G G G A A G A G G G G GAAGGAGGAAGCGGGGGAAGGGAGAGAAGGAAAGAAGAAACC
 GAGGAAGACCGGGGCCGGGGAAAAAACCAACAAGGGGACGCA GAGAAGCCAGAGGGCCGGAAAAGGGGAAAGGAGGGGCAAAAA
 GAGGAAAAAAACGACAGGAGCCGGGGGAATAAGAACGAAGAA A A G GCCAGCCGAAGAAAACCGGGGAGGAGGGAAAGGGGAAGAG $C \subset G A A A C C A A A G G G G G G A A A A A A A A G G A A A A A G A G G C C C C C C$ GAACAAAAAAAGAAAAGAGGGGAGCCCCCCAAGGAAGAAAGG
 G G G A G G G G G G A G G G C C G G G A A G A A A C A A A A A C G G G G G G C C G G A G A A C C G G G G A G G G A G G G G A A G A G A G A A C C A G A A A G A A G G G G C C GAAAACGAGGAAAAAAACGGGGGGGACCGGAAAAAAGGAA G G GAGGAAGGAAGGCCAAAGAGAGAGGAAAGAAGCCAAGGGA G G A A A A G G A G G G G G G G G A A GACTTGGAACCAAGAAGGGAAG G GAAAAAGGAAAAGACAAACCAGACAGAAAAAAGABAGGGGGG AA $A G G A T A A G A A A A G G G A A G G G G A A A A G G A A G G G G C C A A A A$ G GAGAGGGGGGAACCAAAGGCAGGGAGGAAGGACAAGGAAGA C A A A A A A A A A A A A G GAA A G G CAGGAAGGAGGAGAGGGGAGAA G G G GCCGGAGAGGAGAAAAAAAGGGGGAGAAGCAAAAAAGAA $A G G G A A G A G G C A A G A G G G G A G A G G G G G G G G G G A G G A G A G G G G$
 A GAGAGAAGAAAAGAAGGAAAGAGGAAAAGAAGAAAAAAGAA A A G GAA A GAGGGCAGAGGAGCAACAAAAAAAAGGAAGGGGAC GAAAAAAAGGAACAAAGGGGGGAAAAGGAAAGGAGGAGAGAC A G G A A A A A G G G GA $A \operatorname{GGGGAAAAAAGAGAGGGAGAGAACAAAAA}$ A A GAGAGGGGCCGGGGAAGGGGAAAAGGGGAACAGAAACCBG G GAAAGGGCAGGGGAAGAAGGAGAGACCGAAAAAGAAGAGAG A G G G C A A G G A G A A G A G A A A A A G A A G G G G G G A G A G A C C A A G A A A GAGGAGGACGGAGAAGAAGAAAAGAAGGAGGAAGAGGCAGG A GAAA A A A $A \operatorname{AGGGC} C A G G A G G G G A A A A G A A A A G G G A G A A C A A A$ GAGACCGGAAACAGACGGACGGGGAACCGAGGGAAAAGAAGG C C GAGGGGCAAACCACGGAGCCAGGAGACAAGACGAAAAGGG CAAGGGGGACGGGGGGAGGGAAACAAAAGGGGCCCCGGAAGAG $G G C C G G G G A A G G A A G G G G G G C C A A A A A A G G A A A A A A G G A A G G$

G G G G G G G G G G G G A A G G G G G G G G G G G A G G A C A A G G A A A GAAC C GAAGGAGGAAAGGGGAAGCACAGAGGGGGAAAGAAACCAAGA A A A A A A G G A GATAGCGGAAGAAAAAAAAGGAAGGAAGAGCCC AAAAGGAGAGGACAGAGGGGAAAAAAAAAAAAAAGAAAAGGG G G G GAA A G G GAGGAAGGAAGAACCGGAGGGAGGAAGAGAAAG
 A G GA $\operatorname{A} G C C A G C A G A A G C C G G G G A A A G G G A A C A A A A A G G A G G G$ A A A A A A A A A A G GAA $A \operatorname{G} G A A A G T A A G G G G G G G G G A A G G G G A G G G$ GAAAAAAAGGAAAACCAAGGGGGGAAGGAACCAAAABGGGGG A A A A G GAAGGGGCCGGGGAAAAAAAAAAGGGGAAGGAAGAAA G GCCGGGGGGGGCCGGAAGGAAGGAAAACCGGAACCCCAAAA C C A A G G A A A A G GAA $A \operatorname{GTT} T \mathrm{~T} G A A G G G G A A A A A A G G A A A A G A A A$ G GAAAAGGCCGGGGAAAAGGCCGGAAGGAAAAAAGGGGAGAA $G G A A A A G G G G A A G G G G A A A A G G G G G G G G G G A A A A A A G G A A G A$ AACCCCCCAACCGGGGAAAAAAGGCCCCTTGGGGGGGGAAGG A A A A A A G G G G A A G G C C G G G G G G G G A A G G G G G G G G G G G G G G C C AAAAGGCCAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGAGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAGGGG
 A A G G G GAACCCCGGAGAGCAGAAGAGAGTTGGGAAAGGAAAA G G G GACCCAAGGAAGGAAAAAAAAGGCCAAGGAGAAAGAGGG GGAGCCCCGGACAGACAGAAAAAAGGAAGGAAGAAGACGGGG A A A G G A A G A A A A G G A A A A A A G G G G A G CAA G GAAAAAAAC C A A A A A A A A C C G G A G G G G G G G A A A A G G C C G G A A G G G A A GA G A G G A A A G GCCAGGGAGCAAAGGGGGGAAGAGAAGGACCAAAGAGAG GAAAGGGAGGCAGGGAAAGAAAGGAAAGCCCCGAAGCACAGG G GCAGAGGAAGAAAAAGGGGAAAGAACACCAGGGGGGGGGGG GAAA A $A$ A A A $G G G G G A A A G G G G A A A A G G G G G G G G G G C C A A A A G G$ G G A A G G G G A A G GCC $C$ G G G G G G G G A A G G G G C C C C A A G G A A A A G G AAGGGGGGAAGAAGAGAAGAGAAAAATAAAGGGGACAGAGAG $A G G G G A C C C C G G A A G G A G G A A A G G A A G G G A A G G A G G G G A A G G$ ACGGAAGGAGAGGAAAGGAGCCAAAAAGCCACAACCAAACAA G G GAA A GAAAGAAAAAAGGGGGAAAAAAAAGGAAAAGGAACAA AAACCCGGCCGAGACAAAAAAAGGCCGGAAAAAAAAAAAAAA G GAGAACAAAGGAGGGGGAAAAGGGAGAACGAAGAGGAACAG G GAAAGAAGGGGAAAAGGGGAAACAAAAATCAAGGGAGAAAA G GAGCCAGGGAAAGGAGGCCAGGGCAGGGGAAAGAAC
AAAAAGGAAGGCCCCGGGAACAAAGAGAGGAAAGGGGGAGG A GCCAGACAACCAGGGCCCCCCAGAAAGAAAGAGAACCAAAA G G G A G G A G G A G A G A A G G GCCGGTTAGGGAAAGAGGGGAACAG A G G G A T A G A A A A GAGGAGCAAAAACCAGAAGGGGGGAAAAAA
 AGAGCCGGGGAAAAGAAGATGGGGGGCCAGCCGGCAAAGGAG AAAACCAAAAAAAAAAAAGGGGAAAAGGAAGGAAGGAAAAAA

 G GAAGACCAGAAAAAGGGAAAAGGAAGAGAGAACAAAGAAAB G GAA ACGGGGCAGGGGGGAAGAAGAAAAGGAAAAGGAGAGAG GAAAATAAGGAAAAAATTGGGGAGGGGGGGAAAAAAAGAAGG TTCCGGAAAAGGAACCGGCAACGGAGGACAGGAAGGAACCAG
 GACGCAGGAAAAAAGAAGAAGGGGGGGGAAGGAAGGGGTTGG GAAACCAAAGAAAAAGACAAAAGGAAAAGAATAGGGAGAAAA A GACGGGGGGGGGAGGAGAAAAAGGGGGGGAGACAAGAAAAA C C G G A GAGAACCGGGGGGAGGGGGGGAAAAAAGGGGGACAAT G G G A A C A A GAACGAGAGAGGAGAGGAAGCCACGGAGAA GAGA C C G A A A G G G G G GAA $A \operatorname{GGC} C A G A A A G G G G A G G G G C C G A G G C A A A$ C C GCG G G G G G A A A A A A GAGAC CAA G G GAGGAAA A A A G G C C G G AAAAAAGGAGAGCAGAACAACCTTCCGAAAGAAAAGCCAAGG

AACCAAGGGGAAAAAACCAGAGAAAGACACCAAAGGAAAAAA G G G G G A G G A G G GACAGCCCCAAAACCGGAAAGCCAAAAGAAG AAGGGGGGAGAAACAACCAAAGAAAAAAAAAAAAAAAACAAA G G GAAAAAAGCCAAAAGGCCCAGAAGGAGGGGGGAACAAACC G GCAGGAGGGAGGGAAAGGAAACCAAGGGGGGGGAGAAAGAA A A A A A A A A A A A GAGGGAAAAAACCGAAGGAGGAAAACAGGTA AAGGAACCGGGAAGAAAGGACGAAGAGGGAGAAAAAAAAACA AAGAGAAATTAAAGGAAAAAAAGAGGAAGGGGAAAAAAGGGG AAAAGGGGAAAAGGAGGAGACAAACCAAGGAACCCCGAGGAG AAGAAGAGCATTAAAAGACAGAAGAGACAAAGAGAGAGAACC GAAAGAGAGAACGAAAAAGGAAAAAAGGGGCACGAAGGAGAA G G GAAACCAAGGAAACAAAAACCCGAAGGGCAAGGGGAAAAA G G G G GAGGAAGAAAAAGGAACCGAAAAACCGAAGAGGGAGAA $C C G G G G A G C C G G G G A A A A G G A A A A G G G A G A A C A A C A A A A G G G$ G G G GAGCCGGGGGGGGCCGGGGAAGAGAAGGAGAAGAACCGG A ATTCCGGACGAGGAGAGGAGGCCGGGGAAGAGGAACCAGBA G GAGAAAAGGGGGGGGAAGAGAGAGAGGACCCAAAGGAAAAAA G G G G G GAACCAAAAGATTAGAAGAAAACGGCCCCAAGGAAAA GAAAAAAAGGAAAAGACACCGGGGAAAAAAAAAGAAAAGAAA G G G G G GCCAGAGGGAAAGAGGGAAGGGGAAAAACAAAGGGGA GAGAGAACGGCCAGGGAGCCGGAGAAGAAGGAGGGGGGGAAA GAGAGGGGACAGGGAGAAGAAGAAAAACAAAGGGGAAAGGGG G G G G G A G G A A G G G G G G A A A GAAA A A A G GACACAA A A A A G G G G $G G C A C C G G G G A C G G A A A A G A G A G A G A A A A C A A C C A A G G C C B A$ G G A A A A A G GAGGGGGGCCGGCCGAAAGGAAAAAAAAAGAAAA AAAAACGGGGATAGAGAAGGCCGGAGAAGGCCAAAAAAAAGG G G GAAAGGCCGAAAGGAGAGAAACGGACGGGGCAAGAAGGAA A A G GAAGGAAAAAGCCGGGGGGCCAAGGAAAGCCAAGGAGGC A A G G G GAGGGAAAAGAAAGAAGAGACGAAAAGGACCGGAGAA AA $A G A G A G G G A A G A C C A G G G A A C G G A C C A C A A G A A A A A G G G G$ C C G G A A G G A A G G G G A C A G G C G G G G G G A A G A G A G G G G G G G G G G AGGAAGAAGAAGAGAGAGACCCGGGAAAAGAACCAAAAAAAA AAGGACAAATGAACGGAAGAAAACAAACGGGAAGGACCGGGG C C G G A A A A A A A GACAGGGAAAAAGAAAAAGGGCCGGGAAGAG A G A A C A $\mathcal{A} G G G G G G G G G G G A A A A G G G G A A A A G G A A A A A A C C A A$ G G G GAAAAGGAAAAAAGGAAGGAAAAGGAAAGGGAAAAAGGG AAAAAGGAAAGGAGGAAAGAAGAGAAAAAGGAGGGGAAAAGA GAGACAGGGAAGAAGGCCCCGAGGAAGGACGAAAAAAAGGCC GAGGAAGAAAGAAGCCGAAGCCAGAAGAGGAGCCAAAGAAAC A G G G A G A A G G A A G G A G G G G A A GACCC G GAAA A A G G G G G G G A A A GAAGGAAAGACGAGAGACAAAAAAGGGAGGGAAGAACBACC
 AAGGAAAAGGAACCCCGGGGGGACGCACGGAAAAGGGAAGAG A A A A G GAA $A \operatorname{G} G \mathrm{G}$ GAAGGGGAAGGGAGAGAAGGGAAAAGAAAGG A GAAA A A A C CAAGCAGGAAAGACCAGGAAAGGAAAAAACCAA A A A A $\mathcal{A} G G G G G A A G A G G G G G G G G A G C C A G A A G G A G G G A C A A C C$ G G G A A C A A G G G G G GAGGGGGAGGACAACCCCACA GAAAAA G G AGAACAAGAAAAAAGGAAGGAAAAGGGGAACCGAAGAGAGGA A GCAGGACGACCCCAGGGGGGGGGAGGAGGGGAGGGGGAGAC A G G G G GAGAACCAGGGGAAAAAAAAAGAGAGAGAGGGA GAAA A A A A A A A A A A A CA GAAAAGGGGCCAGAGGGAAGAGGACAACC $G G A A A G G A G A G A C A A A A A A A A A G G A A G G A A A A A A G G A A A G G G$ GAGGAAAGAGACAAGGGGGGAGGGGGAGGGGGGGAAGAAAAA AAAAACGGGCAGAAGGAAGAAGGCGGTTGAGAGAGGCAGAGG AAAGAGCCGAGGAAAAAGAGAAGGAAAGAGGGGGGGAAGGCC G GAACCGGCCAAGGCCAAGGAAGGAAAAAGAAACAAGGAAGG A GAA A GAAAGAACCCCGGGGCCAAGGGGGGAGACGAAAAGAA $G G A A A A A G C C G G A A G G C C G A A A A G A G A G C C A G G G A A A A A A A A$ AAAAAAGAAAAGCAACAGGGAGAGCCCCAGGAGATAAGAAGA

GAGGGGAAGGGGAAGGAGAAGAGGGAGGAAGGGGCCAAAAAA GAGGGGCCAACCGGCACGAAGGGAGGGGGGAAGGGGGAAGAG GAGAAGCAGGGGAGGAAAAAAAGGAGAGAACCGAATGAGACC ACAAAGGGGAGGACGGAAAGAAAACGAACCAGAAAGCCGGGG A A A A A A A ACCA A A A A A A A A GGGCCAGGGGGCCACAACCGGGAA GAGAAGAACCGGGAAGAGGAAAGAAGAAGGAACCGGAGAGGA A A GAAAAAGGGGAACAAAAACCCCAAGGGGGGACGGGAAACC GAGAAAGAGAACGGAGGAAAGAGAGGAAAGCCAGAGAAAACC
 G GGGAGAAAAAAGGCCAGAGACCCAGGAGGCAGAAAAGG GAA A TAGGGCAGAGGGAGGGGGAAAGGAGGGGAAACCAGAAGGGG G GCCAGAGCAGGAAGGAAGGGGAAGGGGAAAAGCGAGGAGAA G G G GCA $\mathrm{C} G \mathrm{G}$ GAAAAACCAGAAGGGGGAAAGGATGGGGGGAGAA A A C A G G G A A G A A G GAGAACCGAGGGGAGACCCCAG GAAAAAA GACATACCAAAAACAGAAGGGGAGGAGGCCGGAGGGAACCGG AACCACCCAGGAGAAAACGGAAAAAAGGGAGGGGAGAGAAGAG C GCA G GCCCACCAGAAGGGAGGAAAAGAGGCAAAAACCGGCC G GAA A GAAAAGGAGCCGGAAAAAAAAGGAAAGAGAGGAGGCC GAAAAGAAGGGGGGAGAGGAGAGAAGGAAGAACCGAAAAGAA
 A A G G G GAGAACCAGGGAGAGGGAGGGAAGAAAAATTAAACGG A A A GAA A G GAGGACGGAAGGGGGGGAAAAAGGAAAAGGACAA
 A GAGCAGGGGAAGGACGGCAGGAAAGAAACAAGGGAAACABA A GCCGGGAAGCCAGGGGGAAAAGAGGGAAAAAGGGGAGAAAA $C \subset A G A A G A A G A A C A G G C G A A G G G G A A C C A A G G A A A A A G A G C A$ G GAA A G G G G G G GAGAAGGGGAGGGAGAACCGGGAAGAAAGAG
 A GAA $A \operatorname{GAA} C \subset C \subset A A G G A C G G A G G G G G G G G G G A G A A A G G T T G G$ AA G GAAAGAGACAGAGGGCCAGAAGAGGAAGAGAAGGGAGGG GAAAAACCACGGAAGGGGAAAACCCCAAAGAAGAAAGGGGGG AAAGGGGAAAGGACAGAAGAGAACCCGAGAGAACAGAC GGAA
 G GAGGGAAACAAAGACGGGGGGACAGGAACAGGGAAAAGGGG
 G G G G G G T T A A A A A A G G A A G G G G C C A A A A A A A A A A G G G G A G G G GAAAGAGGAGGGAGGGAAGACAAGGAGACAAGGGCCA
$G C \subset A A G G A G G A A G C C A A G G A A G G A A G G A A A A C C A A A A G C A A$ GCAACCAAAGGGGGAAAAACGGGGAGAAAAAAGAAAGAAACC A G GAGGGAAACCGGGGAACCAAAGAACCGGAAAAAACAGAAG $A C G A G G A A G G C C A A C C C A A G A A A G G A G A G A A A A A G G A A A A A A$ G G A A A A A A C C G GA GAGGAGGGAAAGGAGCCAAGGAAAAAAAA AAAAAAAAGGAACCGGAAAAGGCCGGAACCGAGGGGGGGGAA
 A A G GCCAAGAGAGGGAAAGAGGAAAAAAAGAGGGGACBAAAA A A G G G A A A A G A A C G A G A A GAGGAAGGAAAAAGAGGAGACGAA
 A A A A A A A A G G G GAAGGCAAAAAGGGGCCAAAAGGAAAAAAGG AAAGAGGGGAGAGGAAGAAAGGGGGGGGCCACAAGGACGGCC A A A A G A A A A A $\mathcal{A} G G G G G A A A A G G A A A A G G G G A G G G A A G G G G G G$ G GAAAGAAAAGGGGACACGGAAGAAAAGGGAAAAAGGGCAAA A G G GAAAA A $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A C C G G A A G G G G A A A A G G C C G A A A G G G G$ A A A A A A G G A G G A G C A G G G A A G G G G A A C C A G G G G A A G A A A G A A GGAAAACCAACACAAGAGAGCGAAAAGGGGAAAAGGGGAAAA $A A G G T A A G G G G G G G G G A A A A G G A A G G G G A A G A C C G G G G A A A G$ ACAGGAGAAGGAGAGGGGAAAAGAGGAGCCGGGCAAGGAGAA A A G G G GAA A A $A \operatorname{AGGGGACCAAGGGGGGAGGGAAGGGGGAAGAG}$ A G A A A A G G A C A A GAGGAGGGC CAGGGAGAGAAGAAAAAAAAC $A \subset C C G G A A G G A G G G A G G A G G C C A A G G G G C C A G A G A G G A A A A A$

G G G G G G G G G G G G G A A A A A G G G G A A A A G GAGGGGAGAGAAAAA
 G G GACCCCAAAAAAGGGACAGGACAAGAGGGGGAAAGGAAA G $C \subset G A G G G G A A A A C C G G A A A A C C G G A G C C A A A A A A G G G G T T G G$ G G G GAGACGGGGCCACGGAAAAAGCCAAGAAAAAACAGGGGG $G G C C A A A A A G G A G G G A A G A A G G A A A A C C A A A A G G A G A A G G G G$
 A G G A A G A C GA G GAA $A \operatorname{AGGGAAGGGGGACCGAGGGGGGAGAAGG}$ G GAACCCCGGGGAACCGGGGGGGGAAAAAAAAAAGGGGAAAA AAAAAACCGGAAAAGGGGAAGGGGGGCCGGCCAAAAGGGGCC AACCAAAAGGAAAACCGGGGCCAAGGAACCGGAAAAAAAGCA $A C A G A G G A G A G G A G G A A G G G C A G G A A A G A A A A A G G G G A G G B A$ A G G A A G G G G A G G A G A A A T G G G G G G A A GAAAA A G A G G C C A A G G G G G G A A G A G GCCAAGGCCAAGGAACCAACCAGGGAGAAAAAA A A A GAGGAAAGGAGAGGGAAGAGGGGAAGGAAAAGAAGAAGG A A A A A A A G G GACAGGGAAGGAGATAGACAGAAACAAGGGGAG $A G A G G A A A G G G G G G A A A A A G G G A G G G A A G G G A A A G G A G A C B A$ AAAGGGGGAAGGCACCAAAAAGGCAAGGGGCCAGCCGAGGGC AAAGCCGGCCCAAACCGAGGCACAGGAGAAGGGGAAGAGGGG ACATGGAAGGAAGACCAGAAGGGGACAAGGCAGGACAAAAGB GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGAAGAAG GAAAGGGGGAGGAGACGGGGAACCAAGGAAAGAAAAAGAAAA A GAACCCCCCGGAAACACAGAGAGAAGGGGAGGGGGAAAAAA C C A GAGGGAAAAGGACAGAACCGGGAGGAAAGCGAGAAGAAG A G A G G G A A G G G A A G A GACA A A A A G G G G G G A GAAAAAAA A A A A G A GAA $A \operatorname{G} G \mathrm{G} A A A A C C A A G G A A G G G G G G G G G G A A G G C C A A G G C C$ C C G GAAAAGGAAAAAAGGAAAAGGGGAAGGAAAACCGAAAAA A A G G C C A A A A A A G G C C G G G G G G G G G G A A A G G A G A A G T A A A G G A G A G A A G G A G G A C C G A A G G G A G G G G A G A G G A G G G G G A G A G A G AGCAAGCAAGCAAAGAAAAGAGAAGGCAAAGGAGGAAAAAAA G G A A G G G G A G G G G C G A A A A A G G A A G G G G G A C A A A G A G G G G C G G GAAAAAAGGAAAAGGGGAGGGCCGGAGAAGGGAACAGAGAA C C A G G GAACAGAGAGGGGGGAAGGAGGGGGGAGAAAAAAAAA A G G G G A A GCC $C$ G $\operatorname{CAA} A A A A A G G A A G G G G G G G G G G G G A A A A A A A A$ A A A A A A A A A A A A G GAA A G G GAAAACCAAAAGGAA GAAACCCC G G G G G G G G A A C C C C G GCCAAAA A G GAAAGGCCGBACAGAGGG G G G G G GCC $C$ G G G G G A G G G G A A G G A A GAGGGGGGAAA GAAAAAA GAGGGGGGGGGGGGAAAGAGAGAGAGGAAGGAAAGGAAGAGG G G G A C A A A A A C A G G GAA $A \operatorname{AGGAAGGAAAGGGCCAAGGGGAGAG}$
 AAAAGAAAGGAGGGGAGGAGAAAAAACCCAGAAAAAAAGGAG A GAA A G G G G G G GAA A ACCCCACAAAAAAAAAAGGCCAACC GA GAAAAGAAGGAGGGCCGGGGGGAAGGGGGGGGAGAAAAGGGG AAGGCCCCAAAATTGGAAGGCCAAAAAAAAGGAAAAAAAAAA AAAAGGGGAAGGGGCCCCGGAACCGGAAAAAAGGAAGGAAGA A A A A G G G GCC G G A A G GCCGGCCGGAAAAAAGGAAAAAAGGCC A A G G A G A A A G A CA G A A G A G G C C A A G A G G G G GA G G G G G G G G G A GAAA A G C C G G A A G G A G G G G G G G G G A A G G G C A A G G A A C C A G G G A G G G G GAGGGCAAGACAGGGGGGGCCGGGGGGGGCCCCACAC A A A A C CAAAC $A$ A A $G A G G G G A A A A A A A A A A G G G G A G A A G G G G G G$ $C \subset G A A C G G A C G A A A G G A A G G A C G G G A G G A A A G C C G G G A G G A C$ TAGGAAGGAAAAGGACAACAGGAAAAAAGGAAAAAAGAAGAG CAAAAAAACCGGGGCCGGGAAAAAAAGGGGGGGGAGGGAAAA A A G G GAGGAGGACAGAAAAGCCGAGGAGGGAAAAAGAAAAAA
 $A C G G G G A A G A G G A A G A G G G G G G A A G G A A A A A A G G A A A A A A G G$ G G G G T T C C A G A A A G GAGAGACCACAAGGGGAAGGAGAAAAC C G G A A GA AC G GCCAA GGAGAAAAAGATAAAAAGAAGGCAAAAA $C \subset A A A A A C G G A G G G C C G G A G A A A A A A G G G G A G G G A G A G G G C A$

GACCAGCCGGAAGGGGACAAGGAAGGCAACAGAAAAGGAAGG G GAACCAGAAGGAAAAAGGCCCAAGGGAGAAAGGAGAAAA GA GAGGAGGGAGGGAAGGAAAAGGGGAGAAGAACGAAAGGGGGA G G G G G GAA $A \operatorname{GGGGGAA} G G C C A A G G G G A A G A A A G G A G A G A C A A$
 G G G A G A A G A A G A A G G A A G G G C G G G G A GAATGGGGAACAAAAA G G A A A A A A A A G GAACCAAAAGGGGAAGGGGCAAACCGGAGAC AGGGGGTTAAAAAAGGGGCCGGCCAAGGAAAAAAGGCCAAAA T TAA A G G G A A T TAACCGGCCAAAAAAGGGGGGAAAAGAAAAA AAGGGGGGGGAAAAAAAAGGAGAACAAAAGAAAGAGAGAAGA GGCCGGCCACGGGGAACCAAGGCCCCAAGAAGAGGAGGAAAC
 A A A A G GA G G G A CAGAAAAAACCGGAACCGGGGAAAAA GAGAG
 G GAA $\operatorname{G} G C C A A A A A A A A G G G G A A G G C C A A A A A A C C G G A A G G G G$ G GAA A G G G G G A A C C G G G G G G G G G G G G G G C C A A C C A A A A A A G G A A G GCCAAAACCCCGGGGAGGGGGCCAAGACAGGGGGAAGAG A G G G G A G G A G A G G GAACCCCAAAAGGGGGGAAGGAAAAAACC AACAAACCGGCAGAGGGGCCGGAGGAGGGAAAAGGAAAAAGG A G G G G G G C A G G A G G G G A A G G A A G G A A G G A A A A G A A A A A A G G G AAGGAAAACCGGAAAAAAAAGAAGAAAAGGACAAGGGGAGAG G G G GCAAAGGGGAAAGAAACCCAAGGAAAAGAAGAAGAGGAG AAACGGGACCAACAGGGACCCCGGAAGAAAGGAGAAAAAAGG A A G G A A A A A G G A G A G G G G G A G G G A G G A A GAAGAACAACAAAA A GCC $C$ GAA A $\mathcal{A} G G G A A A G G A G G A G G G A G G A A A A G C C B A A A C A A A$ $C \subset G G C A A C A A A A G G A A G G A A G G G G G G C C G G G G A A G G A G G G C C$ G G GAACAGAGAGAGAAGGAAGGAAGGGGGAACGGACAAGGGG
 AAAGAGGGGGACAGAAAAGGGGAAGGAGGAACAGAGGAAGAC $G G A A A G A A A G A A G A A G A A A A A A A A G A A A A A G A G A G G C C A G A G$ CAAAAAAAAGAGGGGGGGAAAGAGAAAGCCAGACAGGAAAGAG A GAAGGGGGGAAAAAAGAGAACAGCCGGCCAAAAGGAAAGCC

 G G G G G G A A A A G G G A G G C A A A A G G A C A C C A G G G G G A A A G G G G G A G G G G A G G A G A A G G G G G G A A G G A A A A G G G GA A A G A G A G A A C C A A G G A A A A G GAGGGGGACAAAAAAACGGCCGGGGAGA
AAGGGAAAACCAAAACAGAAAGAAGGGCCAACCGGAAGAAA $C \subset C C A A G G G G A A A A G G A A C A A G A A A A G A C A G G A A A A G G G G G A$ G G A A A GCC $C$ G $G A A G G G G A A G G G G A G G G G G A A A A A A G G G G G G A A$ GAGGGGAGAAAGAGCAAGGAAGAGGGGGAAGGGGGAAAGGCC
 AAGAACGGAGGAAAAAAGGGAGAAAAACGGGGAGGGAACCGG G G G G G GAAA $A$ A A A A G G G A A A G A G G G A G G G G G G A G G G G G G G G G A C C A A G A A G A GCCAA $\mathcal{A} A A A G G G G C C G G A A G A A A G G T T G G G G A G$ GAGGGAGGGGAACCGGAAAGAGAGGAAAGGAAGAAGAAAAGB A G GACCAAGCAAAAGGGGGGGGAAGGGACCCCGGGAGGAAAG A A A G G GAA $A \operatorname{Gg} \operatorname{G} \operatorname{GAA} A \operatorname{A} A A A A G G A A G G A A G G G G A A G G G G G G A T$ AAAGGACCGGGGAAGGAGAGAGAAGGAGGAGAAGAAGGGGAG A C G G A A A G C A G G G A G G A G G G A A A A G G G G C C G C G A G G A G G G G G $A G C C A G G G G G G G G G A C A A C C G G G G G A A A G A G G G A A A G G A G A A$ C CAGGACAAAGGCCGGCCGACCGGAGGAAAGGAGGAGGAGAA G G A A A A A A C C G G G G A A A A G G A A G A G G G G A G G A A A G G A A A C G G AAAAAACAAGGAAGGGGGGGGGAAAAGGGGGAGGGGAAAAGG A G G G A A G G A A G G C C G A G A G G G G G G A A G A A A G G G G A A G G A G A $G$ A GAGCAAGGAGAGGGAAAGGGGAAAACCGAGGAGGGAAAAAA G G G G G G G G A C A A A G G C G A A G A A A A G GAAC CAA A G G GA G GAA $A$ $G G C C A A A A G G A A G G A A G G A A G G G G A A A A A G G G A G G G G G A A G A$ AAAAAAAAAGAGGGAGGGAAAGAGAGGGAAGGGGGAGAACAA
 A G A A G G G G A G A G G G A A A A G A G G G A G G G G A C A C G G C C A A G G G G G GCAGGCAAAAAGGGGCAGAAAAAGGGGACAAAAAAGGGGGG A GAGACAGCCAAGGAAAGAAGAAGGGGAAAGAAGGCAATTCC A G GAGGGGAAAAAAAAGGAAGAAATTAAGAGGAGGGGGGACC T T C C A G G A A G A G G A A G A G G A A A A A C C GA GA GACAA G G G G A G A GAAACAGAGGACAGAGGAACAGGAGGGGGGACAAGGGGAGAG G GAAAGGAAGCAAAAAGGAAGGAAAGAGAGGAGAAACCCAAA $C \subset C \subset G G A G A G G G A G C A G G G G C C G G G G A A G G A A A A A A G G G G A G$ AAGAGAGGGGGGGGGAGGAGAGAAGGACAGGAGGGGGAGAAA AAGGAACCCAAGAAAGAAGGAGAGCAACGAGGCGAACCCCAA C C A A A A A A CAAACACAGAAGAGGGAAAAGAAGAAAAAGACAG A C G G G A A G A T G A A A G G A A G G A A A C G G G G G G A A G G G G G A G G G G A A A A A G G A A G G G G G A A A A A A A A G GAA $A \operatorname{AGGGGAACCAAGGGGGG}$
 $C \subset A A A A A G A A C C C C G G G A C A A C G G A A A G G A C A G A A C G G A A A G$ G G G G G G G G G G A G G G G G C A A G A A A A A GAA A A A CAC GAA GA GA G A G G GAA A ACAAAGGCCCAGAAGGAGGAAAAAAAAGGGGAAGA AAAAAACCAACCAAGGAAGGGGCAGGAGAAAAGAAGAAAAGA A GAA $A \operatorname{G} G A G G G A G G A G A A C C A G G A C G A A G G A A A A A G A G A A G A$ $C \subset G G G G G A C C G A G G A A A A C C G G A A A A G A A A C G C G G G G G A A G G$ AAAAAAAAGGCCAAAGGAGGGAAGAGCCGGGAAAAGGAGAAA G GAA $A \operatorname{GAA} A \operatorname{A} A A G A A G G G G G A A A A G G A G G A A G A A G G A A A G G G$ G G GAAA A A CAA A A A G G A A G GAAGGAAAACCGGGGGAAAAA G G G G A C A A G G A G A A A G A A G G A A A A A A G G C C G GAAAAAACGGGCA AGGAGGAAAGACAACCACAAGAGGAGAGAAAAAAGGGAGGAG AAAAGGAAGGAGGGAAGGGGGGAAAAGGAAGGCCGGAAAAGG
 A GCCGAGAAGCCAAGAAGGAGGGAGAAGGAAAAA GAAAGGAA $A G A G A G C G A A A G G G A A A G A G G G A G A G A G G A G G G G A C G G C C G G$ G G G G G G A C G A G G A C G G A A A A A G A A A G A A A A A A G G A G A A G A G G AAAAGGGGACAAAAAGGGGGAAAAAGAAAAACGGAAGCAGAG A G G G G G G G A GAGAAAAAGGGAAGGGAGGAGCCAAGGAGGGCA G G G G A C G G G A G A A G GAA $A \operatorname{GA} A T \mathrm{~T} A A A A A A A G A G G G G G G A G A A$
 G GAACCAAAAAAGGAAAAAGGGCCAAAACCGAAGCCACAGAG A A G GAA A G G G GAAAAGACAGGGAGAGAAGAAAAACCAACCAA A A A A G G G G GAGGGGGGGGGGGAAAGAAAAGCCCAGAAAAAGA C G G A G G A A G G A G G G T A C G C C A A G G G G A G G G G G C C C C C C A C G A A GAGCAGAGAGGACAACAAAAGAGTTGGGGAAGGGGAAAAAC $A G C C G G G A C C G G A A G G A G G A G G A G G G A A A G A A A G A G G G A G A G$ G G C C A C G G G A A A A G G G G G G G A A C C A A A A G G GAAA A G C C A A A A AAAGGCGGAAGGGAACGAACGAACGGGGAACCGAAGCCAGGG A G G G G G C G A G G A G G G G G A A A G G G G A A G G G G A A A A G A G A C C G G G GAGGGAAGACCGGGAGAGGAAAAGGTTACAGAGCCCCBGGA A G G G A A G A G G G G G G A C A A A A GA A A GAAAA A G C G G G G G G A G G G A

 AA $\operatorname{A} A \mathrm{~A}$ GAGAAAAGGAAAAGGACACAAGGGGCCCAAAAAGACC A A G G G G G A A A A A $\mathcal{A} G G G G G C A A A A A A A G G A A G G G A G G G G G G G A$ GACCGAGGAGAAGGAGCCGAAAGGGAGGAAGGCAACGAGGAA $A A C C G G A A G G G G A G A G G G A A A A G G G A A A C G C C A A G G G G A G C A$
 GAAGGGAGACACGGAAAAAAAAGAGAAAAGGAAGAAAGAAAA A A G G G G GACCAACAGGGAAAGGCCGGGGGGACAAAAAAGGAG C C C A C C G G G G G G G G G G A G G A A A A C G GAGGGAAAAGAGAC A A A G GAAAAAGGAGGAACCAAGAGGAAGAGGAGAAGGAGAAAC GA $G G A C G A A G A A G G A A G A G G A A A G G G A G A G G A G G A A A A A A G G A C$ GAGAAGGAAAGAGAAGAACCGGGAGGGAGGGAGGCAAAAGAC
$C \subset A G A A A A G G A A A A G G G A C C C C A A A C G G G G C C A G G A G G A G G A$ G G G A A GA $\operatorname{A} G A G G G G A G C A A C A A G G G G G A G A G A A G A G A A G G A C$ AAAGAAAACCAGAGCCAAGGCCGACCAAGGAGGGAGAAAAAA G G G GAA A A GAA G GAAAAAACCGGGAAGGAAGGAAGGAAAAAA G G G GAACCAAGGGGGGAAGGGGGGGGAAGGGGGGAAAAAAGA A A A A A A G G G GAAAAAAGGAAGGAAAAGGGGAAAAAAGGAGAA G G G G G G G G A G G G G G A G A GAGGAAAGAAAGGACGGGGAAAAAA $G G A A A A A G G G A A G A A G G G C C G G G G G A A A C C G G A G G G A A G G C C$ G A A A G G A A G G A A A GAA $A \operatorname{GGGGAAAGAAAAAAAAGAGGAGAGAG}$ G GAAGGAACCGGGGAAGAGGGAAAAGAGAGAAGGGAGGGGGG ACAAAAGGAGAGACGAGACCAGAAGGAAAGAAAAGGGGCCAA GAA $A \operatorname{A} \operatorname{A} A A A A G G A G C A A C A G G A G G G A G G G G G G A G G G A A G A G G$ C C G G G GA $\operatorname{G} G \mathrm{G} A \mathrm{~A} A A A A A G A G G G A A A G G G G G G G A A A A A A G G G C C$ $G G C C A A G G G G A A G G A A G G G A A A C C G A C G G A G G G G G C A A A A A G$ AAAGGGAGTTGGAGCCGAAACCGGAGCACAAGGGAAGGAGAG A G GAGACCGGGGGAGGGGAACCAAAAAAGGCAAAAAAAAAAG
 A G A A A GCCGGAGGGAGGGGGAAGGGGAACAGAAGGGCAGGAT ACAAGGGGACGAGGCCGGAGGAGGGGGAGGAGAAAAGAGAGA GAAGAACAAGAAGGGCAAAGGAAAGGAGGGATGAAACAAAAG A A G G G G G G G G GA $A G A G G G G G G G G A A A A A A C G G G G C C G G G A A A$ AAACAGAGGGAAAAGGAGAACGGAACGGCCAGCCCAGAGGAG GAGAAAAAAAGGGGGAAGAGAGAAAAAAGGGGAAAGGGGGGG A ACGGGAAGGCAAAATAAAAAAGGGACCGCAGGAGACAAAAA G G G G G G G G G G G G G G A A A A G G GAC CAAGGAAGAAGGAAA G GAC AAAGGAACGGCAGGGGGGAGAGGGAGAGAAGAAGAGGGAGAA G GAAGGAAGACCCCGGGGGAGGGGGGAAAAGGAACCAAAAAA GGAAGGCCGGAAGGCCAGAGACGAGAGAGAGGGGCCAAAAAA G GAA A G G G A A G GAGGGGGAAGGAGGGGGGGAAAAAACAAGAA AAGGGGGGAAGAGAAAAAGGAGAGAAGGGGCACCACAAAGAG A G GACA A G G G G G GAAAGGAGAGAAAGCAGGACGGGAGAGAAA G G G G G GAGGAGAATGGGGAGAGGGATAGACGAGAGAGAGACA GAAGGGAAAAAAAAAAAACAAAAAGGGAAAGGGGGGAAAGAAA $G G C A A A G G G A G G A G A A A C A A G G G A A A G G G G A G A G G G G A A A A A$ G GAGAAAAGGGAAAACAGAGAAGGGGAGCAGAGGAACAAAAG AAAGACGAGAGAGAGAGGACGGGAAAAAAAAAAAGAGGCCCA GGGACCACGAAACCGGGGGGCCAAGGGAAGAAGGCGC
AACGGAAAAAAAAGGGGAGACGGGGGGAAAAAAGAGGAGCC G GAGAGCCAGAAGGAAAGGGGAGGAAGGAAGGAAAGCAGAAG A A C A A A A G GAG GAGGGAGAGAGAGAGAGGGGGAAGAAAAGAA GAGAACGAGAAGAGAGGGGGGAAGGAAGAAAGACAAAACAGA G GAGAGCCAAAGAAGAAACCCAGAAGGGAAGGAAAACCGGGG AAGGAAAAGAGGCAAAGGAAAAGGGGGGGACCGAGAGAAGGG AAAAAGAGCCGAGGAAGGGGAGAAAAACGGGGCGAAAAAGAG G G G GAA $A \operatorname{GCA} G G A G G A A C G A A A G G A A G A A A A A A G A G G G G G A G$ A GAG $A \operatorname{GAA} \mathrm{~A} A A G G G G G A G G A A A G A A G G A A A G G A A G G A G A C C A A$ $G A C C G G C C A A G G G A G G C C A A A G G G A G A A G G G G G G A A G A A G G G$ AAAGGGAGGCAAAAGAGGGAAAACAAGGAGGGAGGGGCAGAG A G G GAA A G G GAAAAAAAAGGGGCCAAGACAAAGGGGAAGGAG $A \subset A G A G A G C G G G A A G G A A A A G G G G A A A A G A A A A A A G G G G G G A$ G GAAAGGACCGGGGAAAGGGGAGAGGACAAGACCCCAAGAGA G G G GAGAGTAGGAGAAAAAGAAGAAAAGAAAGAAAAAAACCC G GAAGGGAGGAGAGACAAGAAAGGGGAACAGAAAACCCAAGA GGAGCCGGAAAAAGGGGGAAAAAAAAGGGGAAGGGGGAAAGA $A A C C G G A A G G G G A A G G G G A A A A G G G G A A G G G G G G G G G G C C A A$ A A A A A A G G G G A A G G C C G G G GA $\mathcal{A} G A G A G G A G A A A A A G G G G G G G$
 A ATTAAGGAAAACCCCGGAAGGAACCAACCGGGGAAGGAAAA AAGGAAGGAAGGGGGGCCAAAAGGGGAATTGGGGGGAAGGAA

G GAAAACCAAAAGGCCGGCCGAAGGAACCAAGGAAGGGAAA A A A A A A A A G GAAACAGGAGAGGGACCAGCCGAAAGGGAGAAG C CAGGAGGAAAGAAACAAACAAAGAAAAGGGGGGAAAAGGTT G GAACCAAGGGAGAGAAGCACCGGGGGAGGAAAACCGGGGGG G GAA A G G G G GAAAGGAAAAACCGAGAAAGAAGAGGGAGAAGA A A GAGAAAGACAGGAGCCAAGAGGGGGGGACCGGAAGAAAAG C C A GAGGGAAAAATGGAGACAAGGAGAAGAAACCGGAAGGGA A GCAAAAAAAAAAGCAGAAAGAGAGGGGGGAGACAGAGATXA
 GAGAGGAAGGAACCGAAGACAAGGCCAAAGAAAAAGGCBAGG G G GAGGAAACAAAGCGTAGGAAGAAGGAGGAGAAGGGAGGGG AAAAGACCAGGAAAGGGGCCGGGGAAAGGGGACAAAAAGGAA A GAGCCCCAGGAGGAAGGAACCAGAAAAGAACGCGAAAAAGG A A A A A A A A A A A A A A GAAAAAAAAAAAGGGGGGGGAAAAGGGG AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGGAAGAAAA AAGGAAGGAAAGGGAAGGAACCGGAAAACCGAGGGGACAAAA
 A A GAGGGAAGAACCGGGGGGGGAAAAAAGGAAGGAAAAGGAA $G G A G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C A G A G A C$ $A G C A G C G A C C G G G G A A G A G G G G G G A C G A A G G G A A A A G G A G A G$ $C \subset C \subset A A A A G G A A G A A C G G G A A A G A A G G G G G G G C C A A G G A A A G$ A A G GAAAAGGGAGAGGAGACCCAAAAAGGGAGGGAAACAACA
 A A GAA A A $\mathcal{A} G G G A A C G G C C G A G G A A A G G G G G A G G A G C A C A C A G$ AAGCAGAGGGAGGAAGAGACCACAGGCCAAGGAAAAAAGGGG GAAGGGAAGGAAGAGGCAAAAACCAAAACCTAGGGGAAAAGA CAGGAAGAGGGGGGAAGGGACCAAGGGGGGCCAAAACCAAGA C C G GAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGGAACGG A A G G G A G G A A G G G G G G G G A GCCGGGGGGACAAAAA $\mathcal{C} A A G G G C G$ GAAAAAAGAAAAATAAAGGGAAGGCAAATTAAAAAAAACCAA A A A A A A G A A ACC GACCAAAAAGGGGGAAAGAAAA GAAACCBG A GAGAAATGGAAGAGGACGCACAAAGGAAGTACAAAGGAATT A A A CAACCAAAAAAGAAGAGAAGGGGAAAAGGAAAACCAGGG CAGAAGGGAGAAAGAGACAGGGAAGGGGAAGAAAAACCAGCA A A G G G GAA A G G GA $A \operatorname{AACGGAACCAGGAGAGACCGAAGGAAAAA}$ G GAAAAGGGGCCAATTAAAAGGGGAAAAAAAACCAAAAAAAA G GAACCAAGACACACCACCCGGCCGGGAAGGATTAAAAGGGG A A GAGGAGGAAAGGAAAAGGCCACGGGGAGAAGGACAAAAGA

 AAAACAAACCAACCGGGGAAGGAAGGTTAAAACAAAGGAGAC
 G G GA $\operatorname{G} A A G A C G G A A A A G G A A G G G A A A G G A A G A A G A G A A A G G G$ C C A A G A G G A A G A A G G G A A G GAA $A$ A $A \operatorname{G} G C C A G G A A A G A A G G G G$ GAAAAAGGGGAAGGGACCAAGGAAAAGGAAGGAAAGGGAAAA
 GAGGGGAAGGACGGGGCACAAAACGGGGAAAAAAAGAAAGCC A A G GAA A G GACCAAAGTTAAAGGGGAAAGGGAGGCCGGGGAG AAAAAAGGGGAACCGGAGCCGGGGAGAAGGAAAAAGGAACAG A GAAAAAAAGGAAAAAAAAAGAGGGAGGGGAAAAAAGAAAAC G G TACCAGGGCCGGAGCCGAAAGGGGACAAGGCCAGGAGGAA C CAAGGAAACGGAAAGAGGGGGAAGAATCCGAGGAAAACAAA A A A A A A G G G G A A A A GACCAAGGGGAAAAGACCGGGGGGAAAA G G G G GACCGAACGGGGGAGGGGGGGAGAAACCACGAAGAAGG $A A G G A A A G A G A G A G A A G G A A A G G A G G A G G C C A A G A A G G G G G G$ GGCCGAGGAGAAGGACGAAACGAAAAACGGGACCAGAGGGGA G GACGGAAAACCCCGGAACCAAGGAAAGGGCGAAAAAAAGAA A A G G A GAG GC G GAAAAGGAAAAGGCCGGCCGGGAGGAGAAAA G GAAGAGAAGAAAAGAGGGGAAAAAGAAAGAGGGCAAAGACA

GAGAGAGGAAAAAAAAGAAAGAAACAGGAGAGAGGAGAAGAG G G A A G GAA A A G G G G G G A A G GCCAGAAAGAAAGAGAGACACAG GAAAGGGGAACCAGAAAGCCAAGGGAACAGGGAAAGGGAAGA G G G GAGAGAAAAGGAAGACCAAGGGACCGGGAGGCCCCGGAA ACGAAGCAAAAGACAGCCGAGGAAGGGGACAAGAGAGGAAAG
 A A G G A A G G A A A A A G GAAGGGCCAAGGGGCCAAAGAACAAGAA CACCACATACCCCCAAAAAAAAAGCAGAGGAAGGGGACAAAG G G A A G G A A A A G GAGGAGCGAAGAGAGAAGGACGAGAAAAGCA AAGGCAGGGGCCAAAAAAAAGGAAAAAAGGAAGATTAAAGGG
 C C G G G G A A A A G G G A A A $\mathcal{A} G G G G G G A G G G A A A A A A G A A A A G G A G$
 G G G G A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A G G A A G G C C G G G G G G A A A A A G A A G G$ GAGGAGCAAGGGAGAAAAGGGGGACAGAAGGGAAGAGAACAA GAAGACGGGGGGAGGGAGAGGGAGAAGGTTAGAAAAAGAAAA G G G A G A A G A GAACCAGAGGGGACAGGGGGAAGCCAGAGAAGA G G A A A G G G A A A A G GCCAAGGGGGGGAAGTAAAGAAGAAAA GA AAAACCAGAGAAAAAAGGGGAAAAGGAAGGAAGGAAGAGGGA C CAA $A \operatorname{GGGA} \mathrm{G}$ G CAGGAACAGGAAGGCAAACCAAGGGGGGAGAA GGGGCCAAACAAGGAAAAAAAAGAGGGGAAAAAAAAAGGGGA G G A G A G G G G G G G G G A A G G G G G G G G A A A A A A A A G GAACAAA G G G GAA A GAAAAAAGGGAAAAAAGGAAGGAAAGCCGAGGBAGA T T A A A A C C C C G G G G G G G G A A G G A A C C G G G G C A C C A A G G T T A G
 AAGGTTCACGGGGGAAAACAAAGGCCGGAAAGAAGGAGGAGG A GCCAA $C$ A $A$ A A GCGAGGGGAAGAGGGAGGGAAAAAAAAAAAA
 G G A A A A A G A A G G G G G G G GAGGAACAAAACCAGCAAAAAGGAA GAAGAAGGCCCAGAGGAAACCCAACCTTCCAACCGGGGAAGA G A A A A G G G A G G A A A A G A G G A A A A G G G G G A GCC G A A A A A G G G G AACCAAAAGGGGAAAAAAAAAAGGAAAAAAAAAGGGGGGGAA A A A A ACAGACAAATGAAAGACAGCAAAAGGGGGGGAAGAAAAA CAAACCGACCGAAGCCGAAAGAAAAGGAAACCAAAAGGGGGG AACCCACAGAAAAAAAGAGGAAAAGAAAGGCAGGAAAAGGCC A A G G G G A C A C G G G A A A $\mathcal{A} G G G C C A A G G G G A A A G A G A G A A A G G G$ G GCCGGGAAAAAGGGGGGGGGAGGAAAGGGCCAAAAG
G G GAACCAAGGGGAAGGGGCCGAGGAAGGAATACCGGGGGG C A A A A A A A A A A A G G A A A A A A A A A CAGGGGAAAGGCCGAAAG G


 G G GAAAGGAAAAAACCAAAGGAAAGAGGGGGACCGAGCAGCC AAACCCACGGCAAGACGAGGAGGGGGAAAACCCCAAAAAGAG G GCCAAAAAAAGAGGAAGGGGCAACGAGTTAGAAAGCCCAGB A G G G A G G A A GCCA $C$ CAAAAAGGGGGAGAAGGGGAGAGCAAAAC A G A A G A G G G G A A G G A A A GAATTGGAAAAGGAAGGGGGGACA G G GAAAGGCAAAGGGAGGGGGAACCCCGAAGGAAGGAAGACGG C CAGGGACGGAACCAGAAGAAAAGGAGACCAAGGAAAAAGGG ACAGGGAGGGAGGGGGGGGAAGAAGGGAGCGGAGCCAAGGAA $C \subset G G A A A A G G C A C A A G A A A A G A A G G G G G G G A G G A A A G A A A G G$
 G G C C G A A C G A G A G A G G C G A A G G A C G G A A A G GAA G G G A A A A G G A GAACCGGAGACAGAAGGAGGAGGCCGGGGGAGAACAAGGCC C C A A A A G A G G G A GAA $A \subset C G G G G A A G A A A C C G G A A A A G G G G G G$ G GCCGGAAAAAAAGAAGGGGCCGGGAGAGGAACCGGAGAAGG

 G GAA A $A \operatorname{A} A G G G G G G G G G G A G A G A C G A C C G G G G G G A G G G G G A G$

A A A A A A A A G G G G GAAAGGAAGAAGGGGGCAACAGAAGACGBA GAAACCAAGAGAAGCCGGGGAAGGAACGGGAAGAAAGGAGAC A GAA $A \operatorname{GA} \mathrm{~A} A A A G G G A G G G C C G G A G A A A G G G G G A G A A G G A G G G$ AAGGGGGAGAAGGAAGGAAACCAACCGAAACCGGAGAAGAAA AA $A G G A A G A A G A G A G G A A C A A G A T G G A G G G G G G A A A A G A G A C$ C C G G A G G G A A G G G G A G G G A A A G G G G G G G G G G G A G A G G G G G C A A G GAACAAGGGAAACGAGGAACGGACAAAAGGGGGGABAACC AAAGAAGGCCAGAAAAGGGAAAAGAAAGCAAAGGGGGGAATT G G G G G G A A G G A A A T A A C C A G G G A A C C G A A A G G G A A G G A GAA $\mathcal{A}$ AAGGGGGGGAGGGGGAAACCCCAGGGCAAACCAAAAGAGAGG C C G GCA GACCAACCGGAACAGGCATTGAAGCCAAGGCCAAGA G G A A A A A G A G A G G G A A G G G G C C G G A A G G G G A A G A A A G G A A A G $A \subset A A G G G A C C G G A A G G G A G G G G G G A A A A A A C C G G G G G A G G A A$ G G GAA A G G G GAAGGGAGAGAGAGACAACGAAAGGAGAAAGAA GAA A A A A A A A GAGAGGGGAAAAGGGGGGGAAAGGGAAAGAAG G G T T G GA G G G G GA G GAGGAAGGAAAGAGGAGGAAAAGGAGAA AAGGGAGACGACGGGGAAAAAAAGACCCGGGAGAAACAAAGB A A A A G A A A GAGGAAGGAGAAAAAAAGAGGGAGAAAGAAACAA $G G G A C A A A A G G G G G A G A A G G G G A A G A G G G A C A G G C A A G A A C A$ TATTGGAGCCAACAAGGGACGGGGAAAGACGGGGGAACAAGA GAAGGGGGACGGGAGCGGCCAGGAAGAAGAAAAAAACACAAG GGCACCAAACGAGGGAAGAAAGACAAGAGGGGGGAAAAAAGG C GAA A G G G GAAAGGGGGAAACAGGGGCCGGGGAAAAAAGGAA A A G G A GAGCAAAAAAGAGGGAGGGAAAGAGAGGAAACCACAA
 G GAA $A \operatorname{GAA} A G C G A A A A A C C G A A G G G G G A G G G G G G G G G G G G G G$ G GCCGAAGAAGAGGAGAGGGGGGGAGAAAGAAAAAGGGGGGG G GAAGGAACAAAAATACCGGAAAAAAGGAACCATAGGGAAAA G G G G A A G GCCAAAAAACCGGCCGGAAGGGGACAAACCAAAAA AA $A$ A $\operatorname{G} G A A A G G G A A A A G G G G A G G G A A A A A T A G A C C A A A A A A G$ C C G A A A A A G G G GA T G GCCAGGAAAAAAAAAGGGATTCCAAGG AAAGGAAGGAGGAAGCGAGGGCCCAAACAGGGAGCAGAGGAA A A A A G GAA A G G G GAAAAACCGGCCGGAAAAGGAAGGAAAAAA ATAAAGAGAAAACCGACCAAGGCCAAAGGGGGAGAAGCACBG A A G A A GAA $A \operatorname{A} A G G A C A G G G A G C G G G G A G G A G A C G G C A G A G A A A$
 GACCAGAAGGAGAGGGGGGGACAAAGTAAAGGACAAGGAAGG A A A A A A AC G GAAAAAACCGGGGGGGGGGAGGGGGAGACACAAA AGGAGGCCCCAAAGAGCAAAAAAAGAAGAAGGAAAGGGAAAG
 GAAAGAGGGGACAACCGGAGAAGGAAGGAAGGGGAAGGAGAA G G GAAACCGGACAAAACCCCCCGGCCCCGGCCAAGGGAAGAA AAACGGAAAAGACAGGGGAGAAAGAGGGAAGGAGGAACAAGA A GAGGAAAGGACAAAAAAGGAAAAAGAAAAGGGGGGGAAAAA G G G G A A G G G G G G A G C C A A G G A GA $\mathcal{A} G A A G G G G A G A A G A A A G G G$ A A G G G A A A C G A GAGGGAGAGGAAGAGAAAAAAAAAAAAAAAA $A$ G G G A A GACCGGGAGAGAGGGACAGGGGGAAGAGAACATAA G G A G GACCGAGGGAGAAGGGGGAAGGAAAAGGAAGGAGAGAAAG G GAA A A G GAAAAGGGGTTGAGGACAAGGAAGGGGAGGGCCAG A A G G G A A A G G A A G G A A A A $\mathcal{A} G G G G G G G G G A A C C G G G G A A A A A A$ $G G C C A A A A A A A A G G G G A A A A A A G G A A G G A A A G G A A A G G C C A A$ GAGGGAGGAAAAGGGAAAAGAGAGGGAAGGAAAAGGAA GAGAA
 GAA A A A C G G GAGGGAAAAGGGGCAAGAAGGGGGGAAGGGGGA A GACAAGGAAGAAAGAGAGAGGCCAGAAGGGGAAAAGAAACC G G G G A G A A A G A A C A A A GAAA $A \operatorname{AGGGAAAGAGAAAACCAAAGAA}$ G G GAA A G G A G A G G G G G A A A G A G A A GAA A G G G A G G A G C A G G G G A A A A G G A A G G A A G G A A G A A GAA A GTAA A A C G G C C A A G G G G G A AAAGAAAGAGGAGGGGAAAACCGGGAGCGGAAGGAGAGGAGA

G G G A A A G A A GACGAGAGGAAAGAAAAAGGAGAAACCTTGAGG A A GAGAAC A G G G GAGGAAAAACCACAGAGGGAAGGAAGGGGCC AAAAGGGAGAAGAGAGGGGGAAGGGGAAGGAAAAAAGGAGAA A A G GAAAAAAGGAAAGAGGGGGGAGGGAACGCCCACCCAAAA ACGAGAGGAAAAAGAGCCGGAGACAAGGAAGGGGGGGGABAA T T G G G G A A G G A A A G G G G G A G G G C C C C A G G A A G G A C C A G G G G A C C G GAGAAAGCCGAAGAACCGGGAGAAGAAACAAAAGAACAG A GATAACCGAAAAGAAGGGAAGAGAAAAGGAAAGAAGGCGCC
 AAAGAAGGAGAAAAGGAGCCAAGACCAAGAACAAGGGGGGAA
 A A A A G G C A GAA A A G G GAGGGAAGGGAGAAGGGGGAAAGAGAC GACCGGAGAAAGAGAAAAGAAGGGAGGGGGGGAAA GACAGAA G G G G A A A A A G A A G G G A C A A C G G G G G G A G G G G G A G A C G G C C A G AGAGAGGACAGAGGAAGGGGAAACAGAAGGAAGGAGCAAAAA AACCGGGGAGAAAAAGCAGGAAAAGAGAAAGGGGAAGACAAA A GAAAACAGAAGAACCAGGGACAGAGGGCCGACGGGAAGGGG
 $A G G G C A A A G G G G A A G G A G G A G A A G A C A G G G A A A G G A A G A A A G$ A A A G A G G G A G G G G A G A G G A A G G A A G G G G A C G G G G G A C C G G G G G G G GAAGGCCAAGGAGCCGGCCAAGGAAGGACCAAAAAAAAA GACCGGGCCCGGAAGAGGGGGGCAGAGAAAGAGAGGGAAAAA G GAAAACCAGGGGGAAAAAAAAGGGGAAAAAGCCAAGGAGAA A A A A G G G G A A C A A A A G G G A A A A G A A A G G A T A GAAA A GA GA G G
 G G G G G GAA $A$ G A A GAACCACCGGAAGGACAAGAAAGGCCAC G G CAAAAAGGAAGAAAGGAGGACCAAGGCCAAGGGGCAACGGGG G G A G G A A G G G C C A G G G C C G G A C G A G G A G G G G G A G A A G G G G G G
 AA $A$ A A A A A A A G GAGGGAAATGGAAGGGGAAGGGGGAAAAGA $\mathcal{A} A$ A A G A A A A A A GAGAACAAGAAAGGAGAAGGGAGAGGAAAGGBA A G G G G GAAAGCAAGAAAAAGGAAAAAGGGGGGGGAAAAGGAA A A A C G A A C A G G A A A G G G G G G G G G G CAA A A A GAC C GACC G GAC A G A C G G G A A G A A A C G G A A G G G A A G A A G GAAC CAAAACCA A G G A A GACCGGGGGGAGAAAAGGGAAGAGAAAAAAAAAGAAGGCC A GCCAAAATTAGAACGAGCACCGACAGGAGAAAGGGGAACAB GAAAGGACAAGGAGAGGGAGGGGGCCAAACACAGGGA
A GAGGAAAGCCAAGGGGAAGGGGGGAAGGAGAGCAAGGGAG
 A A G G A A G G G G G GAA A G G G G G G G A A C C G GAA A A A A A A G GAAA A AAAAAGAGGAAAGGAGCCAAGGAAGAGGGGAAAGAGAGAAGAG A A A A A A A A GAGGAGAAGGACCCAGAGGGGGGAAAACGAAAAG G G G G G G G G CACCGAAAGGGGTAGGGGGGCCGAAAAAAAAAAA $A G G G A A G G A A G G G A G A G G G G G G G G A G G G G A A G G A G G G G A A G G$
 GAAACCGGGGAAGGAAAAGGGGGGGGGGAAAAGGAAGAAACC G GAGAAGGGAACGAGAGGCCCACCAGAAAAAGCAACCCGBAG G GAGAGGAAGGGAGGGGAGGGAGGCCGGAGGAAAGGCCGGAA G GAAAAGGAAGAAAGGAACCAGACGGAAAAAAGAGGGGGGCC G G G A A G A G T T G G A C G G G G A GAGGAAAAGAACCAAAAGAAG G G G G G G A A GAGGGGAAGGCCAGCAACGGGAAAAAGGACGAACAA A A A A C A $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G A A A A A G G A A G G A A G G A C C C A G A A G G$ G A A G A A G G G A A A G G A G A G C A G A G G C C A A G G G G A A G G A G G A G A AGACCAGGGGAAAAGAAAGGAAAAGGAACAAGGGAGAAAAGA A GCCGGGGGAGGACAGAAGAAAAAAAAGCCAAGGCAAAGGAA A A CA $\operatorname{A} G A G G G G G G A A A A G G A G G A T G G G G C C C C G G G G A A A A A A$ A A A A G A A G G G A A A A GAGGAGGAAAAAAAAAAGCCGAAAGGGG A A G G G G A A A G A A G A A A G G C C A A G G G G G G G GAA G G A A G G C G A A $A C C C C C C C A G G A C A A A A A G G A A A A A A G G A G G G T T A G C C A A A C$

G GCCAAAAAGGGGGAAAGGGGGGGGAAGAAAAAGGAAGGGGA G G G G G G A A A A C A G G A G G G G G A A G G G G A A G G G G G G G G G G T T A A C C A A C CAAAACCGGGGAAGGGGGGAAGGGGGGCCGGCAAAAA AA $A G G G G G G G G G G G G G A A A A A A G G C C A A A A A A G G G G A A G G G G$ AAGGAAGGGGAACCGGAAGGAAGGAAAAGGAAAAAAAAAACC G GCCAAGGGGAAAAGGCCAAGGCCGGGGAAAAAAGGCCAGAA A A A A G GCCGGTTGGAAGGGGGGGCCCGGGGCCCCAACAAAGG $G G C C A A A A G G G G A A G G G G A A C C A A G G G G A A T T C C G G A A G G A A$ A A A A G GAA $A \operatorname{GGGGGGAACCAAGGAAGGAACCAAAAGGAAAAAA}$ $C \subset A A A A A A A A G G G G G G A A G G C C A A G G A A A A A A G G A A G G G G T A$ A A A A G G G G G G A A A A G G G GAACAAAAAAAGGGGGGGGAAAAAA A A A A A A A A A A G G G G A A A A A A A A G GCCAAAACCAA G G G GCC G G A A A A A A G G A A G G G G A A A A A A G GAA $A \operatorname{GGGGAAAAAAGGAAGGAA}$ G G A A A A G GCCAAAAGGGGTTGGCCAAGGGGAACCCCGGAAAA GGCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGGAAGGAA
 G G G G C A A G A A G GA $\operatorname{A} G A A G G A A A A G G G G G A A G G A A G G A A G G A A$ G G G G A A A A G G A GAA $A \operatorname{G} \operatorname{A} A \mathrm{G} A A A A G A A G G G A A G G A A G A G G G G A A$ CCGGCCGGAAAACACCCCGGGGGGAACCGGGGGGAACAAGGG G GAGGGGGGGAAAAAAAAGAGGAGGGAAAAAGGAGGAAABAA AAAGACAGAAGGGGAAGGAAGGGGGGAACCGGAAAAGGGAGG A A A A C C C G G G A A T T G G A G GAGGGAGGAGAGAAAA G GAA G G G A A GAGACAGAAAGGGAAGGGGAAGGAAGAGGGGGGGGGAGAAA G G G G A A A G G A A A G G A A A G A A G G G C A A A G GAGAGGGGAA G CA G G G A A C C G G G G G A A GCCAGCAACAAGAGGAAGAAAACAAAAAG G GAGAAGGGGAAGGCCGGAAGGACAAGGAGAGGGACGGGGGA GAGACAAAAGAGGGAGGGGGAAGGGGAAGGGGGGAAGGAGAG A A G G G GAAAACCAAGGAAGGAGAAAAGGAAAGAACCGGAGGG G G G A A C G A C A G G G G GCGGAAACAAAAGGCCAAGGGGAAGAAA GAGGGACCAGAACCAGAGTTAAAGACGGGGGAGGGAGGAAAA A A G G C C G G G G A A C C A A A A G G A A A A G G A A A A A A A A G G G G G G G G GAAACAGAGGGGAAAGGAGGAACAGAAAGGACGAAAAGAAAG G GACGAACAAGGAACAGAAAAAGAGAAAAGAACCGGGAAAAA GAGGAGGAGGAGCCAGGGGAAGGGGACCCAGGGGCCGGAAGA A A A T G G GCGGGGGGAAGAAAAGACAGGGAAGGAAAAAAAAAA A G G G G G A A A A GAG GAACCAGGGACAAGGGAAAAAAATAAACC GAGGAGAGAGAAGGAAGGGGCAAGACGAAGAGGAAGGAAAAA AACAGACCGAAAAAAAGGGACAAGGGGGGGCAAGGGAAACAAA A G G G G G C C G G G G A A G G G GCCGGAGAGAGCCGAGACCAAAA G G G G A A A A GACGGGGGAAAGAGAACGCCAACCAAAGAACCGGAG AACCAACAGAAAGGAAAAGGGAGGAGAGACTTCAGAGAAAAA A A G G G G A G A A G A A A A A A G A A A GAGAACCAGGGGAA GC G G G A A $A G G G C A C C A A G G G G G G A A A A G G A A A A G A G A A G G A G G G G A A G G$ G G A A G A G A G GCCACAAAGAAACAAGAGAGGAGGGAAAAAAAA G G G G G G C A GAGGAAGGAGAGGGAAGGAAGGAAAGACAGAAAA A GAGAACCAGGGGGAACCGGAGAAGGGGAAGGCCBAAAAAGB A A A A G G G G A A A A C C G G G G G G C C A A G G G G C A G G A G GA G G C C A A A G GA $\operatorname{A} G A A G A A G G A A A G A G A C C G A G G G G A A G A G G A A G A G A G A$ AA $A \operatorname{Gg} \operatorname{GGG} \operatorname{GA} A A A A G G G A G A A G G A G G G A A A A A G G A A G G A A A A A$ A A G G A A G A A GCC $C$ G GAAA $A \operatorname{AGGGGAGGGCCAAAAAGGGAAGGGG}$ AACCAACAGAAGGGAGGGAAGGAAGAGAAGGGGGAAAGAAGA GAAACCAAGAAGGAGGGGGGGGCCGGAAAAGGGGGAAAAAAG G G A G G G A A G G A G G A G A A A G G A A G G A A G G G G G A A A G G A A G G A A AAAAGGAAGAAGGGACGAGGGAAGGAGGGGAAGAAAGGAGGA G GAGGAGAGAAAAAAAACGGGGAGCCGGGGGGGAGAAGAAGA
 G GCCGGAGAAAAAGGGAAGGGAGGGAAAGGGGGAGAAAGAAA CAAAAAAAGAGGGAGGAAAAAGGGCCGGAAGGAAAAAAGGAG $G G A A G G A A G G A A G G A A G G A A G G G G A A G G G A A A G A G A G A A A A G$

GACAGGAAGGGGAAGGAAAAAGCAGAAAAGACAACAGGCCAA A A G GAGCCAAGAAGGAAAGAACGGAAAGCAAGAAAGAACACC AAGGAACAAGAAGGAAGGGAAGGAAGAAGGAAGGGAAAAGAG G G G G GAAGGGGGAAGGGAACAGCCAAAAGAAAGGAAAACAAG GAAGAGCAACCAAAAAGGGGGGAACAAAAGAAAA GAGAAACC GAGGAGAAACGGAACCAGAGCCAACCGGGGAGGAAAGGGGGG GAAGAAGAGGAAGGCAAAGAAACAAGCGGGAGAAAAAAAAGG G GAAAAAAGAATAAGGGAGGAAAAAGGGAAGGAAGAACAAAG A A A A G G G A G G G A A C A G G G C C G A GAGAGGAAAGGGAG GAAAAA A GAGGAGGACGAACGGAGACGGCCGGGGCCGGAAAAGGAAAG G GAGAGTTGGGGCCGGGGGACCGACACCAGAAACAGAGGGCA G GAAGGAAGGAAGGAGACGAAGGGACGAAGCAAGAACCAGAG GAAGGACCGAGGGGGGGGAACCAAAAAACCAAGAGGCAGAAA $G G G A A A G G A C G G A A G G G A G A G G A A A A G G A G G G A A A A A A G A A A$ G G G GAGGGGGAAGGCAGAGGAGGGGAAGACGGAACACCAAGA AAAAGGAAGGGGAAGGAGAACAAGGAAAGGAGAGGGAGAGAA GAGGAAGGAGACGGAAAGGAAAGAGGGGGGAGCCAAGGGGCC A A G G A CAGAGGGGGACAAGGCCCCGGGGAAGGGGAAAAAGAA $G G A A C C A G A C G G G A G G G G A A G G A G A G A A G A G A A A A C C A G A C A$
 ACAGGGGGAAGGGGAAGGGGAAAAGGAAAAAAAAAGAGGGCC
 AAAAGGAGCCCCAGGAAGGGGGGAACAGGACAGGCAAAGGAG AA $A$ A $\operatorname{G} G C A A C G A G G A A A A G G A A G G G G C C G G A A A A G G G A A A C C$ AA $A G G G G G A A G G G G A A G G A A A A A A G G G G G G A A A A G G A A G G C C$ A A G G G G G G G G G G A A G G G G A A G G A A G G G G G G G G G G A A A C A A $G$ G AAAATTGGAATAAGGGAAAGAAAAAAGAGGGGGGGGGAAGAG G G G A A G A G A A A A A A A G A G G G G G G G A A A A G GCCCC G GAAAA C C CCAAAAGGAAACGGAAAAGGCCGGAAAAGGAAAAAGGGACAA GAAAGAGAAAGGACGAGAAAAGAAAAGGGGAAACAAGGAAAC GAGGAAGAGGGGAAGAAAAAGGAAGGGGAGAGGGAAAAGGCC AACACAACGAAGGGAGAGAAGGCAGCGGGGGGAGAAGAAGAA

 GAGGGAAAAACACAGACCCCAAGAGAAGAACAGGAAGGAAAA C A A A G G A A A G G A A G A A C C G G G A A A A A GAAA $A$ G A C A G A G G G T T G GCAAAGGGGAAAAGGGAAGGGGAGGGGGGAACCGGC
C G G G GAA $A \operatorname{GAAAAAAAAGGGGGAGAAAAAAGGAAACCAGGGG}$ A ACCCCAAAGAAACGGAAAAGGGGAAGGGAGGGGAGGGGGGG A A A G G G A G G G G G A A G G A A $C A A G G G G G G G A A G G A A G G G A A A T T$ AAGGGGAAGGCCAACCAAGGAAAAAAGGAACCGGAAAAAAGAG A A A A A A G G G G G G A A A A A A A A A A A A GGCCAAGGCC GGGBAAC C AAAAGGAAGGGGGGAAAAAAAAGGGGGGAACCAAAAGGCCAA
 A A A A G GAAAA $A \operatorname{A} A A A G G A A G G A A A A G G G G G G A A C C G G G G A G A A$ A A G G A A $\mathcal{A} G G G G G A A A A G G A A G G C C G G G G G G A A A A A A A G G G G G$ G G G G G G G A G G C C G A A G A G G G G A A G G GA G C C G G A A G G G G C C G G A A G GAGGGAAAAAAAGCCAGGAGGAAAACCGGAAGGGAAAAA A A G GAA A G G G G G G G G G A A C C G G C C G G GACAAGCC G G G G CA TA A $G G G C A G G G G G G G A G G A A A A A A G G G G C G G G A G G A G G A A A A A C$ AAAAGAAGAAAAGGGAGAAGAAAATAGGGAAAACCGAAAGAA AA $A G A C C C G G G G A A G G G G C C A G G A A G G G A A A G G G A A A A A A G G$ A C A G A A A C G G A G A A C A A A A A G G G G G G G G A G C C G G G G G G G G C C ACGGAGGGAAAAAGCAGGGGAAAAGACAAGAGAACAGAAAAA C C G G A A A G G G G A A A A G G GAGAGCCAGACAGAGGGGGGAAA G G A G G G G G A A G G G G G G G A A G C C G GCC G G C C G GAAAAG GAACAA A G GACAAAAGGAAGGGGGGAGGGAACCGGAACCAGGAAGAGCC CAAAACAGCACCAAAGAAGGAAAAAGGGGGCCAAGGBACCGG GAAAGGACGGCCACCCGGCAGGGGGGAAAAGGAAAAAAAAGA

AAGAAAAGGGCCAAAGCCCAGGAAAGAAGGAGGGAAGAGGGA $A C A A G A G A A A A G A A A A G G A A G G A A G G G G A G A A G A G A G A G A B A$ A GCAGGGAGAAGAAGAAGGGAAGAGGAAAAGGGGGAAGAAAA CATTGGAGAAGGGGAAGGGGGGACAAAAGGAGCCCCGGAGGA AAAAGGGACCCCGGGGGGAAAAAAAGGGAAAGGGAAAGAGGG GGCCCCCAGAAAGGAGCAGAAACCAGAACCAAAGGAGGGGAA G G A A A GAGAGAGGAAGGGAAAAGGCAAGGGAAAACAAAGAAA $A C G A G G A A A C A G A G G G A A G G G A A G A C G G G G A A A G A G A A C C A A$ A GAAAAGAAAGGGGGGAGAGGACCGGAAACGAAGGAAAAAAG G G G GAAAGAAATGAGGAAAGGAAAAGACGGCCAGAGGGAGGG GAAGAAGGCCAAGGCCAAGGTTGGGAGGGGAAAACAAAGGAG GAAAAAGGGGCCAAGAAAGGGGCCGGAAACCAGAAAGGAGAA
 A A A A A A A A GACCGGGGGGGGGAGAGGGAGAAGGGAAGAAGAA AAGGCCGGAGCCGGAGAAAAAAAAGGAAGGGGGGAGAAAAAA G G GAAAAGGGAAGAGGGGAACCGGGAGAAAAAGGAGGGAGAG A A G G G G G A A GCCCAAAGGAAAAAGGAGGAGCAGGGAGGAGAA A A A A A A A A G G A A A A T TCCGGTTAGAACAAAGGGAGGGAAAAA $C \subset G A A A G A G G A A G G G G G C A A A A G G A A G G A A A A G A A A C A A G G G$ G G A A G G G A A G G G G G G G A A G GAAAAA A A GA GAA G GAAA GAC G G AAGACCGGGGAAAAGGGGAAGGAAGAGAGGGAACAACAACAC G GAGGGAAAGGAAAACAAGGGAAAGGGAAAGGTTAAAACCTT A A G G A A G G A A G A A C A C G G G GAA A G A A G G T T A A A A A A C C G G A A G G G A A A G GCCGGAAAAACCAACAACCGGGGAAAAAAGGAGAA A A G A G G G G A G G G G A G A G G A A G G G G A A A G G A C A G A G G A G A A G G C C G GAA $A \operatorname{GAA} \operatorname{A} G A A G A G G A G A A A A G G C A G G G A C C C C A A A A A G$ C C A G G GCCAAGACCGACCAGGGAAGGGGAACCAAAGAGGGCC A G G G A A A G A A A A C C G G G G A A A A A A G G A A G G G G G A A G G G G G G G ACAACCAGGGGGCCATGGAGAACACGCCAAAAGGAAAAAAAG GAGGAGCCGAAAGGAAGGAACCAGAAGGGGATGGGAAGGGGG G G G A A A G G A A A A G G A G A G C C A C G A G G CA G A G G A G A A G A G G A G A GAAGAAAAAGGCAGGAAGGTAAAGAGGAAGCCCGGCAAAAA AAACGAAGGAAGAACCAAGGGGAAAGAAGGACAAAAGACAGC GACAACGAAGGCGACCAAGGAGAAAGGAAGGAGAGGGGGGCG G GAAGGGGAACAGACAAGGAAGACGCCAAGGAGAGAAAGGAA ACAAGAAAAAGGCCCGGGGGAAAAGGACCAAGAAGGCAGGCA $C \subset A A A A G G A A G G A A G G A A G G A G A A G A A G A A G A A G G G G G C C C C$ $G G C G A A A A G G A A G G A G G A A G G G A G A G A G A A G G A A A G A G G G G G$
 $A \subset A A C A G G C C G G G G G A G A G A A G A G A G A A G G A A G G A A G A A G A A$ G G G A A A $\mathcal{A} G G A G G G G G G G G G G G A G G A A G G T T G G G G C C G G A G A A$

 GAGAAGGGCCGAGGCCGGAAGGGAGAAAAGGGCCGGGGGGAC
 A A A A G G G G G G G G A A G G A A A A C C G GAAAA A GAA A A A A A A A A G G A A C G A G A A A A A A G A A A G G A CAGGGAAGGGGAAAGCC GAA G CA GACCGGAACCAAGGAAGAACAACCGGAAAAGGGAGAGCACAC GAGGAAAACAAAAGGGGGAAGGGAACGGGAGGACGGAAAGGG
 G G A A G G A G A A G G A G G G A G G A G G G G C C G G G A G A A G G G A A G G G G GACCGGGGGGAAGACCAAGGAAGGCAAAGGGGGGACAGAGAG GAGGAGGAAACCGAACAGAAAAGGGGCAGGAGAAGGTAACGG G G G G G G G G G G G GAA A GAAGGAAAAGGGAAGAAAAGGAACCCC
 CCGGCCAAAAAAAACCGGGGGGAAGAAGCCGAGGGGAGAAGA A A A G A A A C A GAGAGCAGACCAGGAGGCCGGGAAAGAGGAAAA $A A C C G A G G G G A G G A G G A A G G A A G G G G A A A G A A G G G B A A A G A A A$ G G GA $\operatorname{G} G \mathrm{G} G C \subset A A G A C C A G G G G G G A G G A A C C A A G G G G G G G G A A$

G G G GAA $A \operatorname{GGGA} G A C G G A G G A A G G G A G G G G G A G C C G G G G G A A A$
 $A A C C G G A A G G G G A C A G A A A A A G A G A G G G A A G G A A G G G G G G G G$ G GAAAGGAGAAAGGACGGAGGAAGGGCCAAAAGATAAAGGGG G GAAAGGGGGAGAGAGGAAGGAAGGGAAGAGGGAAACAGAAG A A A G A A A G A A G G A G A A G G A A G G G G G G A A A G A A G G A A G G G A A G G GAACCGGAAGGCCCAGAGGGGACAGCCGGGGGGAACAGGCC GGGAAAAGGACCAAGGGGAAAAGACAGAAAAAGAAAGGAACA G G G G A G G G G G A G G G A A A A C C G G A A G G G G GACAAA G G C C GAAA AAAAGGGGAAGGAAAAGGCAAAAGGGGGGAGAAAAACCGGAG GAAACCAGGGAGCCATGGAATTCCAAGAAGGGAACCCAAGAC G GCA G G A A A A A A G G G G A A G G T T A A A A C G G A A A G G G G A G A A C A A A G G A G G A GA $A \operatorname{GGG} \operatorname{GAA} A A A G G G G A C A C C G G G G G G A A A G A G A G$ A GAGAAGGAAGGAAAAACACAGGAGAGGAGAAGGAGGACAAA A GAA A GAA A GCCCCGGGAAGAGAAAAGGGGGGGGCCAAAGAC $C C C A A A G A G G A A G G A A G G C C C C A G A A G G G G G G G A G G A G A A A G$ A G G GAAA $A$ AAACCGGCCACGAGGAGAAAAAAGGAAAAGGGGGG A A G G G A A A G G A A A T G G A C GAGAAGAAAGGAAAAA G G G G G C CA G AAAGCCCCGGGGTAAAAACCAACCGGGAGGAGAGGAAAACAC A G T T T T G G A A G A A G A G G G G G G G A G A A G G G G C C G A C C A G A A $\mathcal{A} A$ ACGGGAAACCGGGGAGAAGGAAAAAAACGGAACCAAGAAAAA GACGGGAAAGAGAGAAGGAGGGCAAAGGGGAACCGAAAAAGA GAGGAAAAGGAAAAAAGGAGAAGGGGGGGGAACCAGAAGGAA AAGGAAAACCAAGGGGACAAAAGAGGAAGAAAAAAGAAAAAG $A G G G A A A A A A T A G G A A G G G G G A A A G A G G G A A G G G A A G A A G G G$ G G G GAGAGGGAGCCAAAGGAGGAGAGAAGAGAAACCGGAGGA
 G GCAAAAGGGAAACAGGGAGCCAAGGAAAGAAGGGAAAAAAG A G G G G G G G A G A GAAAAGGGGAACCAAAAGGAAAACCAAAAAG AAACAACCAAAAGAAGAGGAGGAGGGAAGAGGACGAAGAAGG A $G G G G G A A A G A A A A G A G G G G G A A G G G G A G A A A G G G G G B A G G G$ AGCCGGAAGGAGAGGAAGATGAGCAGGGCCGAAAACAGGGCA GAGAGGGAAGAAGGAGAGAAAAAGGGGGGACCAACCAAAGGG A GAAAACAGAGGAAGAAAAAAGCCAAAAGGAGGGAAAAAAGB
 G G G G G GAGGACAAAAGAAAGAGGGAGAGGAGGAAAACCACAA AACCGGAAGGCCCCGGAAAAAACCAAAGGAGGGGAGG
G G GACAAGAAGGGAGGAGGCCCAGACAGGACGGAACAAGCC G G A G G A C A G GCC G G G G A A G G C C A GAAAA A G A A A A GAAAA G G C C $A A G G G G G G G G A A G G G G G G A G C A G G A A G G G A A G G G G G G G A G A A$ CAAGGGGAGGAAAAGGTTGAAAAGAGCCGGGGGGAAAAAGGA
 G GAAGGGGCCAGCACAAAAAACGGCCAACAGAGAAGGGGAAA A A G G A G A A A A A A A A G G G GAAGAGAGGAAGGGGACAAGACAAA GAA $A$ A A $A$ A A A G A G G G G A A A A A A G G A G G G A G A G G A A A A G C C C A $A G C A A A C A G G G G A A G A G G A A G G G G C A G G G G G A C C A A G A G A G G$ A G GA $\operatorname{G} A A \operatorname{A} A A A A A G G G G A A G A G G A A A A A A G A C A A C A A G G G G C C$ AACACCGGAAGGGGAAAAGGAAGGGGACAAGGAGAGGGAAAA AACAGGAAAAGGAAGGAAAACCGGGAGGAAAAGGGGAAAGAG
 A A A A A GAACCAAGGGGGGGGTTGAGGCAGGCAGAAACAAAGG G GAGGGAAGAAAAACAGAAGGGGAGGGGAAGAGAAACCAAAA $G G A A G G A A A G A G A A G G A A G A A A A G A A A A A A A A A A C C G G G G G G$ $C \subset C \subset G G A G A G G G A C A G G G G A A G G A A G G G A A A A G G A A A A A C G G$ AAAAAACCAAGGAGCAAAAGGGAAGAAGGAAGAGGGGAATAA

 $G G A A A A A A G A G A G G A A C C A A A G C A A A A A G G A A G G G A A A B A A G$ G G GAAAGGGGCCGGAATTAAAAAAAAAAAGGAACAGAAAAAA

AAAAAAGGGGGGCAAAAGGAAAGGCCAAAGAAAAAGCCGGGG A A A A A C G G A GAACC GAA A GAGGCCCAGGCAGGCCACAGGGAG AA GAGGCCAAAGGAAAGGAAAAGGAAGGAGAAAAGAAAGGCC GAGGGGACCAAACCGGAAGAAGGAGAAGCCGGGGAGGCAAGA ACGGGAAAGGGGGAGAGGACAGAAAAACAAGGGGAGGGAGAA C CAA $A \operatorname{GGGA} \mathrm{~A} C \subset \mathrm{C} A A A C G G A A G A A A A G G G G G G A A G G G A A G G A G$ GAGAAAAAGGAGGGAAAACCAAAAAACGGGGAAAGGAGAAGA AAAAAGAAAAGAACAAAAGAGCAGGAAAAAGGGGGGGGAGAA G G G G G G C C G G G G A G A A G G G G A A A T A G G A G G G G A G G G C A C A G G AGAAAGGAGGAGGAACGGGGGGGGAAAAAACCAAGGAAAAGA G GAAAGGGGGAGCAGGAACAAAAGGAGAAAGGGGGGAAAGTT A A G GACAGGAAGAAGGGAAAAAAGAAGGAGCCAAGAGAAGAA A G G G A A A A A A A GAAAA $A$ A GAAAAGGGGAAGGAAAGAAGAAAAA AAACCCGGGGGGGGGAAAACCCGAAACCAAGGTTAAAAAAAA AAACAGAAGGGAAAAACAAGAACAAGGAAAAGAAAGGGAAGG GGACAGGGCCAAAAGAAAAGAGAGCCGGAAAAAAAGCAGAAG G G G G A G A G G G A A G G G G G A A A G G C A C G G G G A G G A A G G G G A G G A G G G A A G G G A G G G G A GAAGCAGGGAGGAAAACCGGACAGAGAA GAAAGGGGAAGAGGAAAGACCCGGGGAAGAAGAAGGGGAGAC A A C C G A C C A G A A A G A A G A C G G G C C G G G G G G A G A G G A G G A G G G G G G GCCGGAGAGGAAAAGGGCAGGGGAAAAAAGGAAGGGGGA A GAGGGAACCAAAAGAAAGAAGAGGGCCAAGGGGGGGGGGGG A GAGAAAAAAGGAGGAGGCCAAAGGGAGGAAGAAAAAAAAAA G G G G A A A ACCCCAAGAAAAGAGAACCGAACAGAGGAAGAAAA GAGGGAGGAACAAAGACCAAACGGGAGAAGAGAAAGGGGGTA A A A G A A GAAGCAGGAGGGGGGGAGCAAGAATTAAAAGAACAG A G G G G A G G A A G A A G G GAC $\operatorname{A} A A A A G G A A G G G G G G G G G G A C A G A C$ GAGGAAGGAAAGAAGGGAAAGGGGAGCCGAGACAGGGAAAAG A GAC A A $\mathcal{A} G G G G G A A A G A G G A G G G G A C G G G G C C G A A A A A A G A A$ G G A G A A C C G A A GAGGACAGGGGGGAAAAGAGG
$11022000-9 A A G G G G C C G G G G A A A A A A G G G G G G A A A A G G A G A A$ AAGGAAGGCCCCAAGGGGGGAAGGAAGGGGGGCCAAAAGAAA C CAAAA A G G GAAAAGGAACCGGGGAAGGCCAAAACCGGGGAA A ACCAA $C$ G $\operatorname{CA} A A A A A A A A A G G A A G G G G C C G G G G A A G G A A G A A A$ A A A A A A A A G G A A G GCCGGGGCCGGGGAAAAAAAAGGAAAAAA C CAAAAGGAAAAGGGGAAGGGGGGAAGGAAAAAAGGCCAGAA G G G G A A G G G G G G G G G G G G G G A A G G A A A A G GAA T T G G A A G G A A AAAAAAGGAACCAGGAAAGAAGAACCAGAGGGCCGGAA G GAAA A A A A G G A A $\mathcal{A} G G G G A G G G G A A G G A A G G C A A G A A G G G G G G G G G G$ C C G GAGAACCAAAAAAGAAAAGAAAGAGCCGAGCAGAAAAGB AAGGAACCGGAAACCCAGAGAAGGGGAAGGCAAAAGTTAA G G A A A G G G G A A G A A C C A A G G A A A A A A A A T T C C G G G GCC G G A G C A A A A GAAGGGAAAGAAAAAGAAAAAAAAAAGCAAACCGGAAAA
 A A A A C C A A C C G GCC G GCC G GAAAAACAGGGAAAAA GGGGGGGG G G A A A A G A GAAACCAAAAGGAGGAAGCCGGGAGGAAAAAAGB A G G G G A C A A GAAGAGGAGAGGACCCAGGAAAAGAAGGACAAA GAAGGGGGAACCGCGGAGGGGGGGAAGGAAGGCCGGAAAAAA AAAAGGCAGGAAGGGGCCAAGGGAAGGGCCGGATGGGGAAGA G G A A A ACCAAAAAACAGAGGAAGGAATAAGCCAAAAGGAGGG GCGAAAAGGAGACCCCAAGGAAGGAACCGGGGAAGGAGACAG AAAAGGCCGGCACAGAGGGAAAAGGAACGGAGAACAGAAAAA G G A A G G A A A A G G A G G G G A G A G G G G A A G G A A G G A G A G G A A A G C AAGGGAAAGAGGGGACAAGAGGAAACGGGATAACAGAAGAAA G G A A G A G A G G G G G A G G G G G G A C G G G G A A G G A A G G A A A A G G C C G G G G T A A G T T A A GAAGGGGGAAAACCGAGACAAAACGA GAGG A A G G G A A G GAAACCGGAAAAGGGGCCGGAAAACCAAGAAAAG GAAAGGGGAACCGAGAAAAACCGGACAGAGGAGBAAGGAGAA G G G GAGAGAAGGGGAACCGGAACCCAAGAGAAAAGAAAAGCA

AACCGGCCCAAAAAAAGAGGGAAGGAACAAGAACAGAGGGGG CAAAAAGGAAAACCAAGGAGGAGGGAAAAGAAAGAGAGGGCA G G G G G GAAAACCGAAAAAAGAAGGGGGGGAAAGGCAAAAGGG AAGAGAAAAAAAGGGGAATAACGGGGGGCCAAGGAAAAAAAA G GAAAAAAAATTAGAGAAGGGGGGAATTGGCCAAGGGAAACAA
 A A GAGAGGACAAAGGGGGAAGAAACCGGGGAAGAACAGGGGG AACGAGACGGCCAAGGGGCCAGAGCAAGAAGGCCGGCAAAAA A A A A C CA GCAGAAAAGAGGAAGAACAAGAAAGAGGGAACAAG G G G G G G T T A A G G G G G G GAAAGGAAGGAAAAAGAAAAACAAA $A$ GATAGAGGGAAGAGGGGGAAGGAGAGAGAAAGAGAAGGGGGG G G G GAGAAGGAAAAAAGGAAAAAAAGAAACGGCCGGGAGAAG
 G G GAA A G GAGCCGGGGACGAAAGAAGAGAGGGGGTAAAGGAA AAACCAGGAAGGAACCCAGGAGGGAGCCAAGGGGGGGGAAAA GAACAGGGAGAGAAGAGGAAAACCAAGGGGCCCCAAAAAAGAA A A GAGGTTAAGAAGAGCCGGGGAACCAAAAAAGGCCAAAAAA G G G G G G G G G G G GAAAA $A \operatorname{A} G A G A A A A A C G G G G A A A A A A C C A G G G$ G G G G G G G G A G G A A A G G G G A A A A GAGGACAACCAACCCAAAAA A A A A A A A A G GCCGGGGGGGGGGAAGGAACAGAACAAGAGGBA $A G G A G A A G G G G G G G A C G A G G A G G G G G G A A G A A A G A C G C A G G A$ G GAAAAAGAACCGGAAGGAAACGGAGGGCAGAACAGGAAGAG GGCAAGCCAAAGAAGAAGGAAAAAGAGACAAGGAGAACGGAA G G G G A A A A CAAAACGACCGGGGGGCCCCAAAAGGCCAAAAGG AAGGGAAAAACCGGCCGAAAAAAAAAAAAAGGAACCAAAAGG A A G GAA $A \operatorname{GAAA} A G G A A G A C \subset A A G G G G A A G G G A G A G G A A C C G G$ GGAACAGAAACCAAGGAACCAAGACCCCGGCCGAGGAGAGAG GAGAAAAAAAAAGGCAAGGGCCGGAAAGGAAAGAGAAAAGAG AAAGAGCCAACCACGGAAGGAGGAAAGGGAGGGAAAGABAAG GGGAGAAAAAAGAAGGAAGAGCAGAAGGAGAAAAGGCCBGGA A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCGG GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAAGAG $A C G A G G A G G G A A G A A A A A A C A G A G G A A C A G G G A G G G G G G G G G$ A A A A G A G G GAGGAAGGCCATAGTTAAAGGAAAGAAAAACCGG G GAGAGGAGAAGCAGAAAGGGGGGAACCGAAGGACAGAAAAG GAAGCAAGGAGGGAGGAGACCCGGAGAGAGCCGGAGAGAAAG A A A A A G G A T T A A A A G G A A A A G G G G G G G GAGAGGGGGAGAAA G G GAGAAGGAAAAAAAAAAGAGAGGAGCCAGGGAAAAGGAAAA G G C A T A G G G G G G G G G G C C G G A A G G A A G G A A A A G G A A G G A A A A G G A A A A G G G G G G A A G G A A G G G G A A G G A A C C A A A A A A G G G G G G $C \subset A A A A G G A A G G G G A A A A G G C C A A A A A A G G A A A G C C G G G G G A$ G G G G A A A A A A A A A A A A A A A A A A C C GAAA G G GGGGAAAA G GA A G GAA $\operatorname{G}$ GAAAAAAAAGGAAAACCGGGGCCGGAAGGCCCCGGGG
 A A C A A G G A G G A A G G G GAGCCGGAGGGAAAGCCGACCAAGGGG G A T T G G G G A A G G G G C C A A A A G A G A G G G G A A G G G G A G G G G G G G $G G A A A A A G G A G G A A G G A A G G A A G G C A G A A A A A A G G A G G G G T T$


 G G G GCCGGGGGAAAAAGGGGAAGGAAGGAGAAAAAAGGGGGG A GAGAGCGGAAAAAAACCAACCGGAGAAAAAAGGGGAAAAAA A A A A A A G G G G A A A A A G A A G A A G G A A A A A G G A A A G A A G G A A A A AAAGGGAAGGAGAGAAAAGGAAAAAGAAGGGGGGGGAAGAAA A GAGCAGGGGGGGGAAAACAGGGAGGAAGAAGGGAAAGAGAT GAAGCCAAGGAAAAAGCCGGAAGAGGAAGGGAGAAAGGGGGG A G GA G GA GAGAGAAGACAGGACAAAAGAGGAAAAGGGAAA G G $A$ A T G A A A A C G GA GAAATAGGAAGCCGGGGAAGGGGCCAGAA GA G G G G G G A A GATAG GAACCGGAAAAAAGAAAAAAAAAGAGACC

AACCAGGAGAGAAGGAAAGGAAAGGAAACCAATTGGAGAGAA
 AACCGGACGAGGGAGGAAAAGGAAAGCCAGACAAAAAAAAGG AA G G G GAAAAGGAAAATTCCAAAGAAAAAACAGGGAAAAGAG A GAA $\operatorname{A} A A A A A A G G A A G C C A C A A G G A A A A G G A A T A A A A G A G A G$ GAACAGGGGGGGGGAGGGGGCACAGGAGGGGGGGCCGAAGAA A GAGGAGAGAGACAAGACAAGGAAAAGGGGGGAAAAAAGGCC CAACAAGGGGAGCCCCGGAGGGCACACAGAAGGGAAGGAAGAG A A C C C A A G A G A G G A G G T T A C G G G G A GAAAACCAACCAAAA G G AAGGACCCAACCGGAAAAAAAGGAAGCACAAGGAAGAGGGAG AAAAGGGAGGAACCAGAAAGAAAGAAAAGAGAGGGGGAAAAA G GAA $A \operatorname{GGG} \operatorname{G} C A A A A A A A A A A A C C G G A A G G G G G G A A G G A A A A C A$ $G G C C A A G G C C A A G G G G G G C C G G G G T T A A G G G G A A G A A A A A B G$ G GAAGGAAAAAAAAAAGGAAAAGGAAGGAAGGCCAAAAAAAA A A C C G GAA A G G GCCGGGGGGAACCGGGGGGGGGGAGAGAGCA

 GACCAAGGAAAGGGAAGGAGGGGAGGCCAGAGAAGGACAAGG AAGGGGGGAGCAGGGGGAGGCCAGACGGCCAGGGAAGGAGAA AA $A \operatorname{G} G A G G G G C C G G A C A G C C A A G A G A A A C C G A G A C A G G B A C C$ $A C G G A A G G C A G G C A G G G G A A A C A G G G A G C A A C G G G G A G G G G G$ A G GAA A A GAGAGGGAACCGGGGGAAAGGAAAAAAGGGCAAAA A A A A A G A A A G G A A A G G A G G G G G C C T T G G G G A A G A G G G G A G G G A ACCAAAAAGTACAAAGGGGCACACCCCCCAAAABACCGGGG1 A A C C A A G G G G G A A A A A G GAGAGCCAAAACCGGGGGGGGAACC C C G GAA A A GACCAAAAGGGAGAAAAAGGAACCGAAAGAAGAA A A GAA A GAGAAGAGGAAGGGAGGGAGGAACAGAACCGAGGAG GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGAAAAG $A G A A C C G G G G C A A G G G G G A G A G A A G G A A G G G G G G A G G A A A G G$ GGCCCAAAAAAAAAAAAAAGAACCGGAGAAACACAGG
AATAGGAGAGAGGGAAAAAAAAAAAGAGGCCGGAAAAAAGG $A C C A A G G A G G A C G G G G G G A A A G G G G G A A G G A A A A C C C C B G A A$
 $G G A A A A A A G G C C G G A A A A A A A A G G C C A A A A A G A A G A C C G G G G$

 ACGGGAGGAAAAAGGAAGGGGACAGGGGAGGGGGGGGGGGGG GGCCAAAAGGAACCATAAAATTAGGAATAAAAGGAAAAAAGA GAGGGGAGGAGGGGGAGGAGAAAGAACAGGGGGGCCGAAGGG AAAAGGGGGGCCCCCCGGAAGGAAAAGGAAGGGGGACAAAAG AAGGGGAAACGAGGAAGGCCGGGGAAGAAGAACAAGGCAABG GAGAAAAAAAGGGGGGGGAAGGAAAAAAAGAGGAGAGBCCAA GGCCAAGGGGAAAAAAGGGGGGAAAAAAGGGGAAGGAAAAGG A A A A A A G G G G G G G GCCGGCCAAGGCCGGGGCCGGGGAAGGAA G GAA $A \operatorname{GAA} A G G G A A C C A A G G G G G G G G A A G G A A G G A A A A G G G G$ A A G GCCTTCCCCAAAAGGAAGGGGAAACAAAGGGATAAGGGG A A A A A G A A G G A A G G G G G G G A A G A A G G CA A A G GAGGACA G G A A AAAAAAGGCAAGGAAGGGCCGGGACCGAGGGAAAAAGACAAA GACCCCAAGAAAGACAGAAGGGAAGGGGAGGGGGGGAGAGAA
 GAAGAAGAGAGGAGCCAAAAGGAAAAAGGAAAAGGGGAGGGG AA $A G A A G G A A G A A A G A A G C G C C A A A G G A A A A G G A A A A A G G G G$ A A A G G G A G A A A A A A G A GAA $A \operatorname{GGGAAGGAAAAGGGGGAAACCGG}$ A GAACCAGGGTTAAAGAAAGAAAAAGGGGGAAGGAGGGGAGG G G G GAAAAGGCCGACCGAAGGAACCACAGGAACCCCGACAAA GAAGGGGGGAGGGGAAGGAAGGAAGGAAAAGGAGGAAGAAGG A A A G G A C C G G A G G A A G G GAGAAGGAGCCGGAGCCAGGAAA G G G GAACCGGAAGGGGAAGGGGAAGGGGAGGAGGGGA$G A A A A C C D$ AAAAACGAAAGGGACAAAACAAGGGAGGAGAGAGGGGGGGGG
$C \subset A A G G A A C C A A A A A G G A A G G G G A G A G A A G A A G G G G G G G A G A$ A GAAGGCCGAAGACCCGGGGAGGGAAAAAGGAAAGAGGCACC G GAA A A G G G GAAAA A A A $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G}$ GAAAAAAAAAAAAAAGGCC CAGGAGGAGGGGAGCAAGGGGGGGGGAAAGAAAAAGAGGGGG AAGGGGAACCTTGGACCCGGGACCAACCGGCCAGGAAAAAAG
 C C G A C C G G G G G G G G G G G A A G G A A G A GAAA A A A A A G G C C G G G G $A G C G G G A G A G G G A G A G T T G A A G A A A G A G G A A G G A G A A C A A A A$ CAGAGGAAAGAACCAAAAGGCCGCGCAGAAAGGGCAAGAAAB $C A G G G G A A A T A G A G G A A C A G G A G G C C C C A A G G G G C C G A A A A A$ A G G GAACCAAAGGGGACAGGAAAAGGAAAAAAAAAAAGACAA C CAGAGACAAACGAAAGGACAAGGAGACGGGGGGAAAAAGAA A A G G G A A G A A A G A C GAGAGAAGAGCACCACAGCCCCCCAGCA A G G A A A A A G G T TAA A G G GCCAGCAAAAGGAAA GAAAGGGGGA CAGAAAGAAGGAAGAGATAGAAAAGGCCAAAGAGAAAAGGGA AAGGGAGGAAGAAAGGAAAAAGAGCCGGGGAAAAAGAAAGAA CAGAAAAAGGAAAGAAGAACCCAGAAGGCGAAAAAAAAAAGG AAAGAAAAAAAACAGGGAAAAAGAAAAAAACAAAAAAAAA GA GAAGAAAAAAGAAGGGAGGGAAGGAAGGCCAAGGGGGBAAGA C CAGAAAGGACCCCGGGGAAGGAAAACAAAGGGGCCAAGGAG G GAGAAGGAAGGAGGAAGAAAGAAAAAACGGGAAGAAAAACC AAAACCAAGGCAGGAGCCAGAAGGCCGGAAGGGGGGAAAAGG AAGGCCAAGGAAAGGGCAAAAGGACAAAAAGGCAGGGAAAAG A A A C G GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAACCGGGGAAAAGGCCAAAACCAAGAAAAA A G G A C C T A G G A G C C G G G G G G A G G A G G G G G G G A A G C A G A A A $G$ G $A C G G G A A A G G G G G A A A G G A A G G A A A A G A G G A G C A G A G G A G A G$ AAAAGGGGAGAAAGGGGGAAGGCCGGAGAAAAAAGGAAGAAA G GAGGGAGGAGGGAGGACAAGGCCAAGAAAGGGGAGCCAGAA A GAAA A G G A A A A A A G G A A A A A G G G T T A A G GAA G G G A G G G A A A G GACAAGGAACCAAAACAGAGGGGGGCCGGGGACTTACGGGA G G A A G A A A A A C C C C G G G G A A A A G G A A A GAAAA $A$ A A A G G G G T T G GAAAAGGAACCGGCCCCGGAAGGCCAAAAGGAAGGAAAAGG A ACCTTGGGGAAAACCGGAAAAGGGGGGAAGGAAGGAAGGCC A A G G G G G G A G G A A A A A A A G GAACAAC GAA A GAGGG GAAA GAC
 $G G C C A A G A C C A A A C A A G G G G A A G G G G A A G A C C G G A A G A A G A A$ AAGGAAAAAGAAAGAGGGGGGGTAAGAAAAGGAACCAAGAAA A A G G G GAA A G G G GAA $A \operatorname{A} G A A G G G A A A A C A A A G G G G G G A A A A C A$ G G G GAA A A GAAACCTACCGGGGAAGGTTCACCCCAAAGAAAC A A GA $\operatorname{A} G A \operatorname{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A G A A C C A A G G A A G G G G A A A A A A G G A A$ G GAAGAGACCAGCACAGGGAAGAAAGAAGGAGAGAAAGGGGG G G G G G G GAGGGAGGAAGGAAAAAAGAGGGGAGAAAAGGAAAG
 A GAACAAAAGGGGGGGAGGGGAAAAAGGGAAGGGAGGGAGAT G G A A A T G G G G G G A A G G A A A A A A G A A A G GACAAAA $A$ A G G G C CA A AAAGCACCAGAAAAATGAAAAATTTTCCAGAAAAGBAGAAGG

 G GAACCAGCAAAAAAGGGAAAAAAGAAAAGAGGGGGAACCBG G G A A C C A A A A A A GACCAAGGGGAGGGGGAACAGAGGGAAA G G GAAAGGGGGAAGAAAGAAGGAACCGAAGAGCAAAGGTTACBG CCGACCGAAAAGAAAAGGGAAAGGGGAAAACAAACCGGGGAG A G A A A G A G G G G GAA A A G G A A A A GAGGCAAGGGAAAAAATTGA CCAACCGAGGAAAAAAGGAAGGGGAAAGAAAAGGAAGAGAAA A A A C G A A G A A G G G G G G G GAA $A \operatorname{A} G A A G A C C G G G G G G C A C C G G G G$ G G A A C C G G A A G G G A A A A A A G G G G G A A G G G A G G G G G A G G G G G G G G G G G G A G A A G G T A A A A G A A G G G GAAAAACAAA G G G GCC G G T C A GAGGGCCGGGGAACCAACCAAAAAGAAAACCCCTAGGAATT AAAAAAGGCAGACAAGGAAGGGAGAAAAGAAAAAGGGGGGAG

A GAGAAAGGAAGGAAAAACCGGAAGGAAAGAAAGAAGGAAAA
 G G GGCCAAGGATGGAAAAAAGACCAGAGAGGGCAGGAAGACA AACAAAGGGGGGGGAAAAGGAAAACCAACCGGTTGGAAGGAA G G GAAAAAGGAACCAAAAAGGGGGAAAAAAAGAGAAGGAGAA A G GAAGGACCGGAGGAAGGAGAACCCCCGACATTGGAAAGAA A A G G A A A A G G A A G G G G G A G C A A A A G G A GAGGGCAA GA GAA G G G GAACCGGGAGGGGAGGAGGGCAAAGAAAAGGGGGGAAACAA GAAGAGCCAAAAAAAACCGAAACCGGGGCCAGACAAGACAGBG
 C GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A C A A G A A A C C A G T A G A C C G G C C G G G G G G$ G G A A G G A A A A G G A A A A A A C C G G G G A A A A A A A A A A A A A A G G G G C CAA $A \operatorname{GAAACCGGGGAAAAAAAAGGGGAAGGCCGGAACCCAAA}$ G GAACCAAAAAAGGCCAAGGCCAAGGCCGGAGAGGGGAAGGG G GAGGGAAGCAGAGAAAAAAAAAAAACCAAAAGGGGCCGGGG AA G GAAAAAAGGAAAACCGGAAGAAAGAGAGGCAAAGAAAAA A A G A A A A C A A A A A A A A A A A A G GAAAAGGAACCCCAAG GAACA AGCCAAGGGAAAACAGAAAGCCGGAAAAAAGGCCAAGAAGAC A G C A G A A A A GACAGCCAAAAGGCCGGAAAGGGGAGAGGAGAA G G G GAAGGCAAAGGAGGAAAAAAAAAAACCAAGBAAGGCCGG G GACAGAGCGGGGGAAGGACAGGGAAAGGAGCGAACAAACAA A A A A G A G A A G G GAGCCGGAAAACAGGAAGGGGGATTGAAAAA C C C C G GCCAGGAGAGAACAAAAGGAAAAAGGAAAAAAAGA GA G G G G T T A A A A A A G G G G A A G G G G A A A A G G G G A A G G C C A A G G G A G G G G G G G G GACCGGAACCAGACGGAAGGAAGGCCGGAA G GAA C C G GAAAAGGAGAGGGGGAAAAAGCCGGAGAAGGAAAAAAAA AAAAGGGATTCAAAAAAAGAAGGGAGAAAAACATAAAACCGG A A A A A A G A A A G A A GAGACCCGGTTAGAAAAAAAA GGGGGCAG A G G A G A G G A GCGC CAGAAAGGGGGGGGGAAGGAACCAAAATX

A A A A G G A G A C C G G A G G A A A G G A G G G G G A A C C G G G G A A C C G G AGCCAAAACCGACCAAAGGGCAGGAGAACACAGAGGGGGAGG
 G GCCCCGGGGAAAAAGCCGGAGACAAAAAGCCGGAAAATTGG A GCGAAGGCCAAGAAAAACACCAAGGGGAACGGGGACCAAT T A A A A A C A G A A A G A A A A G G A A C C A A A A G G G G G G G G G GA G C C G G G G G G G A G G GA G A A G C C G G G A A A A A G G G G G G A A A A GA G G G G A A $G G C C C A A G A G A G A A C A C C G G G G C C A G G A G G G G A A G G G G A A G A$ G GCCGGAAGAAGGAAACCAAAAGGCCAGAGAGTTAAGGAAAG G G G G C C A A G G G G A A A A GAGGACAAGGGGAGGGAAGAAA G GAA $G G A G C C A G A A G G G G G G A A A G C C A A A G G G G G A A A A G G G G A G A G$ GACGAACAGGGGCAAAGGAGAAGAGACCAGAAAAGGGGAAABG GAGGGGAAAAGGCCGGGGCAGAAGAGGAAAAAAAAGAAGGGG A GAA A GAACAAGGGGGAAGGAAGGGGAAGGGGAAAAGACAAC

 G G A A G G A G T A A A G A A G A A A A A A G G G G A C C A GAAAA TAG G G A A A A G G A A G G A A G GAGAAAAAGAAGGGGGGCGAGCCTTAAAAGG G GAAGGAAGGGAAAACAGAGCGCCGGAACCAGAAGAAAAAGG A A A A A GACAAAACCGAGAAAAAGGAAAACCCAGGAAGGAACC G GAGAGGACCGGGGGGGGCCAAGGGGAGAGCAAAAAAAGACC T TAAAA A $A \operatorname{AAA} G \operatorname{A} A G G G A G G G A G G G A A G G A A C C A A G A A G A A B A$ AAACCCGGCAGGGGGAGAGGGGCAAAAAAAAAAGAAAAGAAA $C C C A G G G A G G A G G G A A G G A A G G A A G G A G A G A G G G G A A A G G G A$ G G G A A A G G G G G GAGAACCAAGGGAAAGGGGAACCGAACAGGG A A G G G G A C A A A C G A A C GAGAGAGGACGGGGGGGGCACAAAA G C C CAA $A \operatorname{GCGAAAAGGGAAAAGCCGAAAAGGAAAAAAGGGAGAA}$ A A G A A G G G G G C A G G A A A A G G A A A G G GAA A A G G A G G G G G A G A $G$ G G G G A A G GCC G A C C G G G G A G G G G G A A C C G A G GA GAA A A A G C C

G G G GAA A GAGAAAAAAGGAAGAAGGGGGCAAAACACCCAGGA A A A A A A A A G G G A G G G G A A A A G G A A G G A GAA $A \operatorname{AGGGGACCGGGG}$ C CAAAA A $A \operatorname{AGGGGAAAAAAAAAGGAAAAGGGGAAAAAAGGGGGG}$ G GCCAAGGGAGGGGGGGGGAGGAGAGAAAGGAGGGGGAAAAA AA $A \operatorname{GGGA} A A A A A A A G G A C A C A A G G G G G A G G A G A G C C C A A A A C$ GAAGAGGAGGAGCCGACAGGAGGGGAGGGGAACABAAGAABA C C G G G A G A A A G A A G C CAA $A \operatorname{AGGAGGGGACGGAAAAGAGAAAAG}$ G G G A A C A G G G G G GAGGAAGGAGCCGAAAGGCCAAGAGGGGGA
 G GAGGGGGGGGAGGAGGGCCAAAAGAAAAAAAGGAAGACAAA AAAGAAGGGAAGGGGAACACGGAAAAGGAAAGACGAGACAAA G GAGGAACGGACAGGGAAAAGGACGGAAGGACAGAAGGAABA C C G G G G G G A A A A G G A A A GTTAGAAAAAGGAAAAACCAAA GAA A A G G A GCCCCGGAAAAAGAAAGAGGGCAGGGACCGAAAAAAG A A G G G G A G G A G A A G G A G GAA A A G G G G G G A A A A G G G G G G A A G G A GCAGAGAGGGAAAGGAGGGAAAAAAAACAGGCCGGAGAGAG A G G G A G A G G G A G A A G G G G A G G G G G A A G G C C G G T T G G A A A C G A GAGAGAAGGAAAGGGGAAGAGGAAAAGGGGAAAACCAAAAGA G G G G G G A A A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G G G G G C C A G C C C C$ G G G G G A A G A G A A A A C C G G G G G G A A A A A A A A G GAAA A GAACA A AAAAAAAGGAGAAGACAAAAGGGAAAAACAAAAAAAGACAAG GAA A A A G G G G G G G G G G G G A G G A G G G G G G A A G G C G G G G G C C A A AACCGAGGGAGGCAGAGGAAAAGGAACCGAAACCAAAAAAGG A A G G G G A A A A A A A A G G A A A A A $\mathcal{A} G G G G A A G A G G A A G A A A A G G G$ GAGACCGGCCGAGGACAGACGGGGAGAAGGGGGAGAGGAGGA A GAGAACCAAAGAGAAGAAACCAAGAGAAGGGGACAAGAGAC AAAAGAGAGAGAGGAAAGAGGGACACGGAAGAGGGGGGAACC A G G GCCAA $C$ A A A A A A A G G G G GAAAGGACAGGAAGGAGGGAAAA $A G G G C A G G G G G G A G A A G A A A G A A A A A A A A A G G A A G G G G A G A A$ $G G A G A G A C A G C A G G C A A C G A A A G G G A A C G A A A A A A G G G A G A A$ G G A G G G A A A A C C A C G G A A G G G G G G A A A A A A C C T T A A G G C C A A G G G G G GACAAGGAAGAAAAGGAGGGAGGGGAAGAAGAGAAGG GAGAGGGGAAGGAACAAGAGAAGGGGGGAGGGGGGAAAAAGG AAAAGGGGGGGAAACCAAAAGGAACCGAGAAACCGGGGAAGA A A A A A A A A G G A A A A GAA $A$ A $A G G A A C A A A A A A G G A A G G A A G A A A$ A GAGAGGAAGAAGGGAAAAAGAAAGGCAGGGGAAAAAA GAAAA G GAGATAGAAAAGAAGGAAAAGGGGGGATTGACCAACCGCCC A A A A A GAGGGGGGGAAAAAAAAAGAGAAGGAAGGGCCCAAAAA ACAGAAGGGGAAGGAAGAAGAGAAAGAGAGAGAGAGAAAAGG A A A A A A A ACCGGGGCCAGAAAACCGAAAAGACCCBCGACCAG $G G A A A G G A C A G A G G G G A C A A A A G A G G A A A G A A A A G G A A G G A A$ A GCC C G A A A $\mathcal{C} G G G G G G G G G G G A A A G G C A A A G A A G A A A A A A A A$ G G G G G GAA $A \operatorname{GA} A A A A A A A A A A A A G G A A C C A A G G A A G G G G G G A A$ G G G GAA $A \operatorname{GGGA} A A A A A A A A A G G A A G G A A A A G G A A C C A A G G G G$ G G G GAAAAGGGGCCAAAAAAAAAAAAAAAAGGAAAAGGAGAA A A A A A A A A G GAAA A A GAGGAAGAGAAGAAAGAAGACGA G GAAA
 GAGGGGAGGCAGAAGGAAAAAAAAGGGAGAGAAGAACAAGAG A G G A G A G G G G G G A A G G G G G A G G T T G G A G C C A A G G G G G G G G G AACCAAAAGGAAGGAAGGACGGCCAAGGAGAAGGGGAAAAAA AA G GACAAAACCGGAAAGGGAAGGGAAAGAAACCBAAGAGAG GAAAATGGAAGGGAAGAGGGAAGGAAGGGGGGGGACCAAAAA $A G C C G G G G G G G G A A G G A G A G G G G G G G A A G G A G C C G A A G A A A A$ G GAAAGGGAAAAGGAAGGGAGGAAGGGGAAAAACAGCAGAGA $A A G G A G G G A G G G G G G G A A A A A A A A G G G A G G C C A A A A C A G G G G$ GAAGAGGGAAGAAGCAAAAAAGGAAAGGAAGGAAGAAACCTT A A A T G GAA A G A A A A CAA A GAGGAAAAAGAGAGGGGGA GAA GA A A G G A GA $\operatorname{A} A \mathrm{~A} A \mathrm{G} G A C A G A A A A G C A G G G G C C G G G A C C G G G G A T$ AAGGGGCAAACCCAGACCAGGGGGAAAAAAGGCCGGAAAAAA

G G GAGGAAAGGGAAGGCCACAACCGAAAAGTAGGAAGGAGGA GACAAGAAGGAAAGCACAGGGGAAATGGCCGGCCGGAACCGG A A G A A G G GAGCAGGAGAAAGGAGGCCAGAGGGAAAACCGGGG A G G GA A A G A A A G G G G A A GAGGGAGGAAGGAGAATAGAGA GAA G GAA A G G GAGAAAAGGGGGAAAAAAAAAAGAGGCCCAAAC GA GAAGGGAAGGGGAAAAGGAAAAAAAATTAGGAACGGGA GAAC $C \subset G A C C G G G G A A A A A A A A C A A G A A A A C C G G G G A G A A G A A G C C$ $A G C C G G A A A A C C G G G G G G A A A A G G G A A A G A G G G G A A A A G G G G$ GAGGAAAAGGAAGGAGAGGAACAGGGGAGACAGGAAAGACGG AAAGAAGGGAAGGCAGAAGGAAGGATAAAAAAAAACGGAGAG CAGGAGAAAAAAGAGGCCAGGGAAGGGGAAAAGGGGAAAAAC
 G GAGGAGGGAAAGGAAGGAAGGAAGGACGGGGGGAA$G A G A G G G$ GACCGCAAAGGGAAAAGGAACAAAAAAAGGAAGGAGCAAGGG A A A G G A G A A A G A A A G G G G G G G G G G G A G G A A A $C A A A G C A G G G G$ ACGAAAGGCCGGGAAGAAAAGAACAAGGGGGACAGAAAGGGG TTGGAAAACAAACAACAATAACGAGAGGAAAAGACAGBAGAA C C A A A G G G A A G G G G G G T T A A A C G A A G A G G G G G G A G G G G G G G A CCGGAACAACAACCGGAGGACCAAGGGAAACCGGGGGGGGGA C C C C A A G G G A A A C C G G T T G G G G A G A GA G GA GA G G A A G G G G A A GACAGAGACCAAAAAAGGGGAGAAGAAAAGCGGGGAGAAGAA GAAACCAAAGACAACAAAGGAGCCGGGGCCGAAGCCGGAGAA ACAAGGGGAAAGCAAAAAAAAAAAGGGAGAGGAAAAAGACGG A A A C C G A G G G G G A A A G A GCC $C$ G G G G G G G G A A A A T T A A G G G A G G A A A A G G G A A G A A A A A A A A G GAACCAAAAGGAA GAGAAC GA G G A G G A G A A G A GAGGAAAAAAGGGACTTAAGAAAAAAGAAGAGG AAAAAAAAAAGGAACCCCGGGAACCAAGAGAAGGGGGGGGGG A A A A A A G G GAAAAA A AA $A \operatorname{AGAGAAAAACAGAAGGGGGAGGGGAG}$ $G G A A A C G A A A G G G G C A G A G G C C G A G A A C G G C C C C A A G A A A A G$ GAGGGGTAACGGTTACGGACAAGGGGGGGAGGAAAGA
A G G A A A G A A A A A A C C G GAGGGAGGAGGAGAAAGGGAGCAGG GAAGGGGAGGAACGGGGGAAGGAAGAAGGAAGGGAAAGAAAG GAAAA AAA $A \operatorname{A} G \mathrm{G}$ GAACAGAGAGAAGAGGGAAACGAGGGGGGGG G GCA G GAAAAGGCCGGAGGGAGCCCAGGAAGAGGAACCAAAC A A G G A A T T G A A A G A A G A G G G G A G G A A A GAC G G G G G G C A G G A A
 CAATAGAAGGAGAAGAAAAGAGGAGGGGGGGGACAAAGCCGG A GAGCCGGGGAAAAAGGGGAAAAAAAAAAACCAAGGGGAAAA GAACAAAAAGAAGAGGAGGGGAGGGGAGAAAAAGGGGCAGAA $G G C A G G A A A G G G G G G G G A A G A G A A G G G A A A A A A A A A A A G G G G$ $A G G A A G G G A A A G G G A G A A G A G G A A G A A G G G G G G A A G A A A G G G$ G GAA A GAAAAGAGAGGAAGGAAAAGGAAGGGAAAGAAAAGAA AAGAGACCGGGAAGCAAGAAAGCAGGAGGGAAGGAAGGGGGG C C A G A A G G GACAAAGAGGGGAAAAGGGGAAAAGAAAGAAAAA $A C C C A C A G A G A G T T G G G A G G A G C C A G A G G A G G A G G G G G G G C C$ A GAGGGAAGGAGAGAGCAGGCCAGAAGAACAAGGGGAGGGGA A A A A G G A A G G A A A G C C G G A A G A G GAGGGAGGGAAA GAAAAAA GGCCACGGGACAGGAAAGAAAAGGCCCAAGGGCCGGAAGGGG AA $A \operatorname{GGGA} A A A A A A A A A G G G G G G A A G G G G G G C C G G A A G A A A G G$ C C G G G G G G G G A A G G A A T T A A A A A G G G G G G C C G G A A G G A A G G G G G G G G A A A A C C C C G G G G G G G G G G G G G G G G G G A A G G C C A A G G G G CCCCGGAAGGCCGGAAAAGGCCGGAAAAAAGGGGAAAACCCC A A G G A A A A A A A A C C A A A A A A G G G G A A C C G G G G G G A G G G A G G G AAAAGGAGAAAAAAGGGAGGAGGGAAGGACGAGAGGCCCCGG GAGGGAAGCCCCAGGGGGAAGGGAGGGGGAAGCAAGAGAGAG G G G GCAAGCCGGGGAGAGGACCGACCGGCCGAAGAAAAACGG A A A A G GAACC $A \operatorname{CGGGGGCCAGGGAAGGGACCAAGGCCGGGGGG}$
 $A A G G G G A A G A A A A G A A A A A A A A A A G G G G C A G G A C A G A G A G G G$

G GAAGGCCAGGAAACCAAAAGGGAACGGAAAAGAAGGGAGAG
 G GAGGGAGATAGGGCCAGAAGGGACCAAGAAGAGAAAAAAAG G GAAAAAGGGAAGACAAAAAAGAAGGAAGGAGAAAA GGGGGG G GAGGCGAGGGGAGGGCCGGAAGGAAAGCAGGGAACCCAGGG G G A G A A C C G G C C G G GAGGGGAAGGAAAAGAGGAAAAG GAGAA G G A A G A G G A A A A A A G G G G G G G A A A A A G G A A A A G A G G A A A G T T $G G C A A A A G G G G A G G A A A C G G A G G G A A A A G G G G A A A A C C A A G C$ A GAGGGAAAAAAAGGGAGCCAAGGCCAAAAAAAGAGAACAAA GACCGGGGGGGGAAAGGGCAGAAAAAAAAAAGAAGGCCAAAA $C \subset A G G G C C G G A G A A G A G A G A A A G G G G A A G G A A A A C C G G A G A G$ G G G GCAACAAGGCCGAGAAGAAAGCCGGCAGGGGAAAGAAAC A G G G A A A G A A A G G A A A ACGGAGAAAACGCCCCAACCAAAGCC
 C CAACACAGAGGAAAAAAGAAGGGCCAAGGAGAGAAGAGGAA A A A A A A A A CAA A G G G G GAGAAA G G GAGACCAGAAAAGGGGGG AAAGCAGACCAAAACCAAAACCAACCAAAAAAGGGGGAAAAG G GAGGGCAAAAAAAGGAAAAGGGAGACAAGGGAGAAAACACA C GACGGCAAAGGGAAAAAAAGGCCGGGGAAAAAAAAAAAAAA AAGGAAAGGGCGGGCACCAAAAGGGGGGAGGAGGGACAAGAA C CAAAGGAGACCCCAACCCGAAAAAAAAGAAACCAAAGAGAA A A A A A A A A G G G GAGAGCCCCCAAAGAGGAGGGAGAAAAAAAG
 GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGGGCCACAAAA C C G GAA $A \operatorname{GAAAAAAGGGGAAGAGCCAGAGAATAAACAGACCGG}$ GACAAAAAGGAAAGGGAAGGGGGGGGGGCCAGAAAAGAAGAA G GAGAGGGAGAAGAAAGGGGAAAAGCGGGGCCGGAACAAAAAA C CAA $A \operatorname{A} A C C C G G A G A A A C G A G G G G A G G A A G G C A G G G G A A G G G$ GAGGAAGGAAGGCCGGGGGGAAGGGGAACCAAGGGGCCGGGG $G G A A G A A A A A A G A G A C G A A G G G A A A A A A C C G G A A A A A G A A G G$ G G A A G GCGCCAGGGCACAACGAAAAAAGAGGGGAGAAACCAC $C C G A A A A A G G A A A A G G G A A G G G A A A A G G G G A G A A A A C A A A C C$ AAAGACGGGAGACCAGGGCCCAGGGAAGACGGAAGAAAAAAG AAGGCCGGAACCAGGGAAAACCGGGGGGGCGGAAAACAAAAA A A A A A A $\mathcal{A} G G G G G G G G A G G A A A A G G A A G G A A A A A G A T C A A A A A$ G G G GACAACCAGAAGGAAAGAAGGAGAAGAAGGGGAGAGGAC G GAAAAAGAAAAGAGGCAACAGCCGGAAAAATCAAAAAAGCC A G GAGGAGCCCCGGGGCCGGAAGGGAGACCAAAAGGCCGGGG

 GGGGAAAGCCAAAACCAAACAAACCCGGCCGAAGAAAAAAGG G GAAAAGGAACCCCAAAGGAAGAGAACAAAAGAAAAGGAGGG A GAAATGGGGCCGGGGGGGAACGGGGAAAGAGCCAAAGAACC G G GAGAACAGAGAAGGAAGGAGACGGGGAACAGGAAACAAGA A A A G G G GAA $A \operatorname{AGGGGCGAAAAGGGGAAAAGGGGGGAAGGAGAA}$ AACCAGGGAAAAAAAAAGCAAGAAGAAACCAGAABAAGACGG AAAGCCAAACAGGAAGAGAGAGAGAACCAAAAAAAAGAATAG G GAAGAGGAAAAAAAAAAGGGAGGAAGAAGAAAAGGGACCAG A G G GCAATAGAGGGGGAGAAGAACACAGGGACAACCGGTAGG G GAAGGGGGGCCAAGGAAAAGGAAGGAAAAAAAAGGAAGGAA G G G G A A C CAA $A \operatorname{AGGGG} \operatorname{GAAAAGGGGCCAAAACCGGAAAAGGAA}$ AA $A G G G A A A A T T G G A A A A A A A A A A C C A A G G G G A A A A C A A A G G$ A A A A G G G G G G G G G G C C G G A A A A G G A A G GAA $A \operatorname{G} G G A A C C G G G G$ AA G GAAAAGGAACCGGGGGGAAAAGGAACCAAAAAATXAAGAG G G A A A A G G G G G G G G A A G G G GAACCAACC G GAA G G G G C C C C G G G G G G G G A A A A C C G G G G A A A A A A G G G GCCGGGGGGGGGAAAAA A A G G A A A A G GAAGGGGAAAAGGCCGGAACCAAAAGGGGCCGG $G G A A G G G G A A G G A A A A G G A A G G G G A A A A A A A A A A G G A A A A A A$ GGAAAATTAAGGAAGGAAGGAAAAGGAAAAGGAAAAAAGGAA

AAGGGGGGGGAACCGGAAAAAAAAGGAAAAAAGGGGAAAAGG G G G G G G G G G G A A G G A A G G A A A A G GAACCGGAAAAAAAACCCC C C G GCCGGAAAAGGGGTTGGAAAAAAGGGGCCGBAACCGGGG G GAACCAAGGGGGGGGAACCAAAAGGGGGGCCGGGGGGCCGG
 G G G GCCGGAAGGGGAAGGGGGGAAAAGGCCGGGGAAGGGGGG G G G GCCGGAAGGAAGGAAGGAAAACCAAAACCAAAAGGAAGG AACCGGGGCCGGAACCGGGGGGAAAAAGCCACCAAGAGACAG A GAGGAACCAAAAGGAGAAGAAGGAGAGCAGAGGGAAAGGGG AAAAAATTGGGGCGAAGAAAAAGGAAAAGGGGCAGAAGAAGG A A A A G GAAAAGGAAAGAACGGGGGAGAAGGAAAA GGGABAAG GAGGGAGAAACCGAAAAAGGGGGGCCGGAAGGAGAAAAAGAG G G G G A A G G G A A A A A C C G G G G A A A A G G G G G G A GAGGGAAA A A A $G G A A G G C C A A G G G G C A A A A A G G A G G G A A G G A A G G G G G G A A A A$ A GAGAGACGGAAAGGAGGAAGAAGGGGGGGCCGGAAGGCCGG G GAAAAAAGGCCGGGGAAAAGGTTAGGGGGGGAAGGCAAAGA A A A A A ACC G G GAGACCCCGGAACCGGGGAAAAGGGGAA GAAA G G G GCCGGAAAAGGGGGGAAGGGGCCAAAAAAAAAAAAGGAA AACCAAGGGGGGGGAAAAGGGGGGGGAAAAAAGGCCAAAACC T T G G G G A A G G G GAA $A \operatorname{GCC} C \mathrm{G}$ GACAAAAAGCCCAAAACGAGGCC G G G G G GAACCGGAAAGAAAGAAAAAAAACCAAAGCCAAGAAA G G G GCCGGAGGGAGGGAGGGGACAGGCCAAGGAGAGGGAAGG C CAA $A \operatorname{GAAAAACGAGGAGGCAAAAAAAAGAGCAAAAAAAGAAA}$ C C G G G G A A A G G A G A C C G G G A G G G A A G CAC G GAGAGAAA G G A A A A A G G G G A G G G GAAAAACAGAGAGGGACAGAGGCAAAAA GAAA A A G G A A A A A A A A G GAGGGGAGGCCAAAACAAAAA GGGAAAGG $C C G G C C G A C C G A A G G G A A G G A A G G A G A G A A A T A G G G A A A A A A$ A ACCAAAACCAAAAAAAAAAAAAACCAAGGGGAAGGAAAAAA A ACCAAGGAAAGGGAGAGGGGGCCCCGGCCGGAAAAAAAAAA GACCAACCAACAAAGGGGCCCAAAGCAGGGACCGGG
GAAGGAGGGCCAAGAGAGAGGAGGAGGAGAGGACAAGAAAG A G G A G G G G A G A A G G G GCC G GCCAGGGGGGGGGAAGAAAAAGA AAAACCGGAAGGGGGGCCAAGGGGCCAAAAAGGGAAGGCAGG GAGAAGAAGGGGAGAAGGAGAAAAAAGGAAAAGGAAAACCAC A A A A G A A $\operatorname{A} A A A G G G G G G G G A G G G G G G A C G G A G G G C A G A A G A A$ C C G G G G C C G G G G A A A A A A G G G G A C G G G A G G G G G G C A G G G A G G AAGGGGAAGGAAAAGAAAGGGCAGAACAAGGGAAAGGAAACC AACCAAGGCAAAGAAAGGGGAGGGAGGGGGAGGAAAGAAACC C C G A G A A G GCGGCCAGGGCCGGAACAAAGACCAAAGGAGGAG GAGGACGAGAGGAAAGGAAAGAGGAAGGGGGAAAGGGGGGAA AAGGAAGGAAAATTAAAAAAAAAACAAAAGAGGGCAGACCAG GACCGGGGAAAACAGGGAGGGAAAGGGGCCATGAACCAGACC AAAGGGAAAGAGGGGGGGAGAGGACAAGGGAAAAGGAAAGAA G G G G G GCCAGAACCAAAGAGGAGAGGGGGGAAAGAGGAAAGA GAGGGGGGAAGGAAGAAGAGGGGAGAAAAGCCAAAAAAAAAA $A C C C A C A G A G G A G G A A A G A A A C A G A G A A C C A A A A A A G A A G G G$ A GAA $A \operatorname{GA} G G A A G A A G G C C G G C A G G A G A G A G A G G G G G A G A A G G$ A A A A A A A G G G A GAA A G GAGGAGGGAGGAGGGAGAAGAACAAA G GATGGAAAAAAAGAACCAAAAAAGGGGGGGGGAGGGAAAGA GAAGGAAAAGGGCAGGAAAAACGAAAAAAGGAGAGGGGGGGG GAGGAGGGAAGGGAAGGATTAACCAAGGGGAAAAAAAAAAAA GAGGGGCCGGAAGAGGAACCAAGGGGAAAGCCGGCCAAAGAA G G A G G A G G G G G A A C C A G G G G G G G G G G A A A A A A G A A GAAA A G A G GAGGAGGGGAGGAGGGAGAACAAGGGGGGGGAGAGGGAGAA A G G GAAAAGAAAACAGACGAAAGGCCGGAAAAGGGGGGAAAA G G A G G G A G G A G G G G G G G G G G A A G G G G G A G G C C G A A G G G G A A $G$
 G G G A G G T T GAGGC CA G GAAA A A G G G G G G C C G A A G GAG G GAA A G G G GCAAAGGAGGAAACCGAAAAAGAGAAGAAGACCGGGGAA
$C C G G C C G G G G A A A A G G G G G G A A A G A A G G A A G G A C C C G A A A C C$ C C G G G G G G G A G G G G G G G A A G G A G A G A A A G G A A G G C C G G C C C C G G GACCGGGGACACGGGGGGTAAAGGGGGGAAAGAGGGACAA G G G GAA A GAGGGAACAGAGGGGAGGAGGGAAGACCAGGGGGG G G G GCCAAGGGAGGCCGGGAAGAGACGGCCGAACGAAGAACA ACAGACAAACAACCGGGATAAAGGCCGAAAAAAAGAAAGGGG G G G G G G G G T T A A C C G G G G G G G G G G G G A A G G G G G G A A A A G G A A GAAGAGGGGAAGAGAGGGAGAAAAGGCACAAAAGAGAAGACC AAAGAAGAAAGAGGACAGCAGAAAGAGAGGAAAAAAAAAACA AGAGGAGGGGCCAAGGGGAGAACCAAAAAGACAGAAGGGGGG A A A A G G G G A A G GAAAGAAAAAGGAAAAGAGAGAAAA AATTAA
 C A A A A A A A A A A A G G A GAAGGAAAAGAGGGGCAGATAGA GAAA A GAGAAGGGGGGCCAGAGAGAAAGGGGGGGGGGAAAAAACAA GAGGGGAAAACCGGAAGGGGCAGGAGAGGGAAAAGAGAGAAT GAGGAGAAAAGGAAGGACGAAGCCCCAGAGAAGAAGGGGAGG $A A C C A G C A G G A G C C A A G G G A C C G G G G G G A G A A G G C C G G G G G G$ G GAA A G G G A GACGCGGGGCCAAAGGGGAGGGAGGAAGAAACC C C CACCGGGGAAACAGGGAGGGGGAAAGAGAAAGAAAGAGAA G G G A A G G A A G A ACCGACCGGAGAGGGAAGAGGCACACAAAAC C C G G G G G A GAAA A GCCAAAAAAAAAGCAAGGAGAGAAGAACA CAGAAAGGGACCCCGGAGGGAAGAAGAGGGGGAGAGCCAAGA G G A G G G A A A G G G G G G G A G G G G G C C G G G G G G G G C C G G C C A A A A G G A A A A A G G A G A G G G A G G A G G G A G C C G A A G A A G G C C G G A A G G AAGGAAAAGGAAAAGGCCAGGAAACCAGAGCCGGGAGGAAGAG G G GAGAAAGAGGGGGAACGAAAAAGAAACCAAAGCCGGCAAA AAGGAGGAAAGAAAAGCCGGAGAAAAAAAGGGGGGGAACAAAA A A A A A A G G G G G A G G A A A C T A A A A A A GGGGAGAAGGAAAAAAA G G G GAA $A$ G A A A A A A CAGACCGAAAAAGGAACGAAGAGAAAAC CCGAAGGGAAGGAAAAAGAAGGCAAGGGGAACCCGGGGAAGAG A A G A G G A A A G G GAA A G A A G G G G G G G G A A G GC C A A G G A A G G A A $C \subset A A G G G G A A G G A A G G A A T T G G A G A G A A A A G A A A G G A G A A G G$ G GAGAACCAAAGCCGAGAAAAAAGCCCCGGCCCAGGAAGABA G GAGCAAAGGAAGGGGGGGGGAAAAACCGGAAGGGGGGAAAA A A A G A A A A GAAAA A A A A A A A G GACAAGGGGGGGGAACACA G G G GAGAAAAAAAGAGTAAAGGGAAAATAAACAACCGGCAAA G G $A$ A G G G TACCGGGAAAGAAAGGGGGGCCGGGGGAAGGGAAACTT GAAAGAGGAAGAGAGGTAGGAACAAGGGAAGACCGAAGAAAG G G G GACAGAAGAGGAGAGCCGGGAGGAAAAGGAAAAAAGAAA
 G G GAGAGAGAAGAGAGGAGGAAAGGAGAAAGGGGGGCCAACC GAAGGGCCGAGGAGAAAGGGAGAGAAGAAAAAAAGAAAAAGG G G GAGGAGGGCCAAGGCCGGAAGGAACAGGAAAAGGAAAAAA C C G G A A T T A A G GAA A A A A G G G A G G G G G G A G A A A A A G G G A G G G G G A A A A G A GAA $A$ A $A$ GACAGAGCCAAGGCCGGCAAAGGCCAC G G GAAGGAAGAGGGGGAAGGGAAGAAGGACAGAGAGGGGGAGGG GAGGTTAGGGGAGAGGGGAAAACCCAAAGGAGAAAACCGBAA
 G G G GAAAAGGAAAACCGGGGAAAAAAAAGGGGCCGGGGAAAA
 $G G A A A A G G G G G G G G G G G G G G A A A A C C G G G G G G A A G G G G A A A A$ AA $A G G G A A C C G G A A A A C C A A G G G G A A G G G G G G A A A A A A A A G G$ A A A A G GCCAA G GAAAAGGGGGGGGGGAAAAGGAAGAAAAACC AAGGGGAAAAAAAACCAAGGGGAAAAAAAAGGCCCCTTAAGG AACCAAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAAGAAAAA A A A A A A A A G G G G G G G G A A A A A A A A G GAAGGAAAAG GAAT TAC C C G G G GAAAACCCCGGCCGGGGGGAACCGGAAAAAAGGAGAA G G A A G G G G G GCCC C G G A A A A G G A A A A A GAA A GA G G G A A G G G G $A G A G G G A A A G G A A G G G G G A A A A G G G G G G A A G G G G C A A G G G G G$

G G G G C C G A G G G A A G A A G G A A G G G G G G A G G G G C T T A C G G A A G G A A G GCA $\mathrm{A} A \subset C \subset C A G G G G G G A G G G G C C A A C C A A G G A G A G A A G A$ G G A A G GCCGGGGGAAAAAGAGAGGAGGGAAAAAGAGGAAAAG T T GACACAGAAAGGAAAAGGAAGAGAAGACAGGGGGAGAAAG G GAAGAGGCCAAAAGGGAAGAACCAGCCGAGAGGCCAACCGG G G A A A G G GCC G A A A A A G G G G G G G A C C G G G G A G A A G G G G A A A A
 $G G C C A G G G A A G A G A G G G A A G G G G G A G A G A A A A G A A A G G G G G G$ G G G G T T A A G G A A C C G G A A G G C C G G G G C C G G G G G G G G A A G G G G AAAAGGAAGGAAAAGGCCAGCAGGAAAAGGCCAAAGAACAAA AAA A G GAGGGCAGGAGGAGGACAGCAAGGAAGGGAGAAAAAG

 A G G G A A G G A G A A G G A G G G G A A A A A G G GA A A A A A G A A G G G G G G A GAA A GAGGGAACCGAAAGGGGGAGAGGAAGGAGGAGGAGAA G GAA A A G G G GCCAAAAAAGGGGAAGGGAGCCAAGAAAGAGGG AA A G GAGGAAAGGGCCAAGACAAGAAGAGGAAAAGGAGAGAA GAAAGGACGAGAAGAATTCCAACCGAAAAAAGGGAACAGGBA A G G A C C A A TA $A \operatorname{AGGGGGGAGAGAGAGACCAAGGGAAGAAGGGA}$ G G A G A A G G A A G G G G A G G A G A G A GAGGGGAAGGGGAAAA GACA G G G GAGGGAAAAAAAGCCAAGGAGGAAAAAAAAAGAGAAGCC
 A G G A G A G G A A G A G G G G C C G G A C G A G G G G G G C C G A G G A A G G G G
 G G G G G GAA $A \operatorname{GA} A G \operatorname{GAAA} G G A A A G G G A A A C A A A A A G G G G A G G A A$ GAAAGGAAGGCCGGAAAAACAGAAGGAGGGCAGAAGAGAAAG GAGGAGAAGAGGCCAAACGAAAGAAAGAACGAAGAGAACAAA A A C G A A G G A A A A G G A A A A G G C C G A A A A A G G CAAAAA A G G G A A G G G GAAAAGGAAAAGGAGGGGGCCGACAGAAGGAAGCCAAAA GACCGGGGGGGGGGACAGAGGAAAAGAGGGAGGGAGA
GAGGGGGGGGGAGCCAGGGAAGGGGAGAGAGAGAGAAGAGG A GAGGAGGAAGGGAGAGGTTAAAAAAGGGGAGAAAAAAGGGG A G G G GAGGACGACCCCAAAAAGGGGGAACCGGGGGGGAAAGG G G GACCAGGGAAAGAAGAGAAAAAAAGGGACCGGAACAGGAA AAAAGGGGAAGGGGCCGGCCGGAAGGCAAAAAGAGAABCAAG AAGGGGAAAAGGAAGGAAAAAAAAAACCAAGGGGGGAGGGGG CACCAAAAAAAAGGAGGGGGAAGATAGGGAAGAGGGGAAAGA G GAAAAGGAAGGGGAGGAGGAGAAAAGGAAAAACAGCAAAGA G G GA G A A C A G A A G A A A A A A A G G G A A GCCAAGGGGGGGAAAAA A A G G A A A A G G A A A A A A GAACAC $\mathcal{A} G G G G G G A G A G A C C A A G G C C$
 A A A G G A A A A A T T A A A G G G A A G G A T G A G G G G C C G G A G G G G C G G AAAAAGAGGAAGGGGGAGGAGAGAAGGAAAGGGAAACCGGGG G GAGGAAGAGGGGAAAAGGAGGAAAGGAAGAAGGAAAACAAA ACGGAACCAAGGAGAGAGAGCCAAAAGAAAAAGGGGCCGGGG
 G G G G G GA GAGGAAACAGACAAGGGGGAAAAAGGGGAAAAAAG $A C G G A C A A A G G A A A A A G G A A G G A G A A T A G G G G A T G A G A G A A G$ A GAGGGGAAAGAACGGAAAAAAAAAAGGGGAGAAAAAAAAGG AAAAGGAAAAGGAAAAGGGAGGGACACCAGGGAACACAGGAA A GAA ACGGAAAAGAAAAAAGAGAGGGAAAAAAGGCCAGAGAA G G G G A A A GAG GAG GAAGGCCCAAATTGGAAGGAAAGAGAAAA G A A A C A G G A A C C G G G A G A A G A A A A G G C C A A G GAAAAAAC CAC AAAAAAGGGGGGGGAAGGGGAAGGGAGAGGAAAAGAAGGAAA A GAGAACCGGGGGGGGGGGGGAAAAGAAAAAAGGAGCCAAGA G G GAAGGGAAGGAAAAGGAGAAAAGGGGACAGAAGGAGAABAA AAAGGAAGAAAAAGGGGGACAAGGGGACAGAGAACCGGCCAA A GAGAGGGGGAAAAGGAGAGCGAGCCAGGGAGGAGGAGAGAA G GAGAAAGAGAGAGGAGAAGAAGGGGAACCAAGGGGAAGGAA

G GACGAGAAGCAGGAAAAAAAAGGAAGGAAGGGGGGAAAAAA A A A A G GAAAAACATCCGGAGGGCAGAGAGAAAAAAAAAAAAA GACAGGAGCAACCAGAAGGAAAGGGAGGGGGAGGGAAAGGGG CAGAAGAGAGCAAACCGGGGGGCCCCAAGGGGAAAAGAAAGG CAAAAAAAGACCAGAGAAAAGAAAAAGGAGGAAAACGGAGAA C C A A A A A A A G A A GAGGGGCCGGAAAAAAGGAACAA G GA G GAAA G GAGAGAGAGGAGAAACAGGGGACGGAAAGGGAGGGGAGAAC G G G G GAGAGAGGAGGAAAGGAGAGGGAGGGGGAGGGAAAACA ATCCAGGAGACAAAAGAGAAAACCGACAGGGGGGGGAACAAA A GAGAGCGAGAAAGGGAGAAGAGGCCGAGGGAGGGGAAGGGG AAAACCGAAAAAAGGAGGGAAACCGAACGAGGAGGAGAGGCA A GA A A A G G G G G G G G GAA A A A GAGGAGAAGGAAAAAA GAAAAA G G G GAACCGGAAAAGGAAGAGGGGCCAAAAAAGGGGGGCCGG GAGAAAAGGGGAAAAAAGCCGGAGAAAAGGGGACCAAAAAAA GAAGAGAAAACCGACCAAAGAGACGACCAGGGAAGGAAAGAG G G G GAGCCCCAAGGCCAAGGAAGGGAAGGGGGGGAAGAAGAG A GAAAGGAAAAAACGAGGGGAAAAGGCCAGGGGGGGCAAAAG G G G G A A G G A A G G G G A G A A A A G GAGGGCCAAAGAAAAA G A A G G G GAAGAGCACAAAGGAAGAGGGGAAGGGAGGGGGAAGAGAACC GAGAAAAAAAAAATGGGGCCACAAGGAGAAAAAAAAGAGGAA AAGGAGGAGAGGCGGGACAAGAAAAGAAGACACCGAAGAAGG
 GAAGGAAGAGAGGAGAAGAGAGAGGGCCAAAGACGAAAAAAA A A A G G GACGGAGACGGGACAGAAAGGGGAAGATTCACCCCAA GACCGAAAAGGGGAGAGAATCCCCGAGGAAGGGACCTTGGGG A GAAGGAAAAGAAAAGGAACGGGGAAAAGGAAAAAAAAAAAA G G GAAA A G G GAAGGGGAAAGACGGGGGAACGAAGAGAAACAC A ACAGAAGGAAGAAAGAAGGGGGAAAGGAAAAAAGGACACAA A A G G A A G G A A G G G A GAAC $\mathcal{A} A A \operatorname{A} G A A G G G G G C A G G G G G G G G G G$ AAAAGGAAAGGAACGAAACCGGGGGACCGGAAAACCAAACAA
 AAGGAAAAGGGGGGAAGGAACCAAAAAGAGAACCAGAAGGCC GAGGGGAATTGGGGGAAGAACCGGGGAAAGAAGGAAAAAAAA G G G GCCGGGGGGCCAAAGAAAAGAAAAAGAGAAACACACAAA G G G G A A G G G G G GAA A G A G G A A A G A A A GAA $A \operatorname{AGGCAAAAAAGCC}$ AAGGCCGGGGAACCCAGGGAGAAAAGGGAGAAAGGAAAAGAG GAGAGAGGGGCCAAAAAGAACAAGGGGAGAAAGGAGGGAAGA A G GAAA A A G GAACAGAGAAGCAAAGGCCCAGAGGGGAGAC GA C A A A A A A A A G G ACCACAAAAAAAAGGGGGGTAAGGACCGGAG GAAAACGGGAAGAAGGAGAGAAGAGGGAAGAGAGGAGAAAAG A GAGGAGAAGAGAGATGAGAACGGAAAGGGGGAAAAGGAAAAA GA $A \operatorname{GGG} \operatorname{GA} A G G A A A A A C G G G A G G G G G G A C G A A A G G G G A A A T A A$ A G GAA A A GAAAAGAGAAAAAGGGGAACAAGACAAGGCGAGAAA G G GAGGGGCCAAAGACAGGAAGAGAATAGGGGAAGGGAAAAA GAGGGGAAGACAATCAGAAGAAGAGGAGGAGGAAGGAGAAGA AAACGGGGGAAAAAAAAAAAAAAAAAAACCAGAGBAAAGGGG AAGAGGAAAGGGCCAAGGAAAGAGCCGGAAAAGGGGCGAAAA GAGAGGAGCAAAGGGGGGAAAAGGAAGGGGGGAAGGGGAACA $A G C C A A A A G A G G G G A A G A A T G G G G G A G G G G A A G G G A G A A A G G$ A A GAA A A G GAGGGGAACCGGAAAAGAGGCCGGAGGGGAGAAC ACATAAAAAGAGAAAATTAAGGAGCCGGAGAAAGACAGAGAG A GACCGGGAAAACAGACCGGAAAAAAAACCGGAGGAAAAGAG AAGGAACCAAGGGGAAGGCCGAACAGACAGGGGAGGGAAAAG G GCCGAAAAGGGAAAAAGGAGACAAAAGAGCAAAAGGAAAGG G G G G G GAA $A \operatorname{GGA} C \subset G G A A A A G G A A G G A C A A A A A G G A G G A A G G$ A A G G A A C A G GAAGGGGAGGGAAGAGGACCCAGAAAGAAAACC AAAAACGGAAAAGGGGAAGAAGGGCCAAGGAAAACAGAAAGG AACCAAAAAAAAAAAACCCCAGAGACGGAAGAAAAAAGAGAA $A C C A G G G G G G G G G G G G A A G A G G A A A A A G A A A A G G A A C C G G A G$

G GAAGGAGCGAAGGGGGAAAAGCAAGAGGGAAACGAGAAAGG G G G G G G A G A A A GAA A A A A G G G GAAAA A A GAACCAA GACAAA G G G G GAAGGGGAGCAAGGAAAAAGGAAACAAAAAAAAGGCCGG GGCCAAAAGGAAAAAACCGGAACCGGAAGGAAAAGGCCAAAA A A A A C CAAAAGGGGAGGGGGGGAAAAAAGGAAGGAGAACAAA A A G G G A A A A A G GAAA A A A A A C C G A A G GAA GA A A GGGGGAAAA G G GAAACCCCAACCGGAAGGAAGGACAAAAAACAGGAAAAAA AACCGGGGAAAAAAGGAAGGCCCCGGAAAAGAAGGGGGAGGG A A A A G G G G GA G A A C C C G G C C G G G G A A G GAA A G G GA G C C A G G G AGGACCCAAAGGAGGAGGCAAAAAGGAACCCCGGAGAGAAAA A GAAACGGAAGAAGGGGGCCGGAAGGAACCAGAGGGGGAAGA $A G A G G G G G A G G G G G A A G G A A A A A G G A G G G A G A A G A G G G A G A A$ G GAAGGACCCAGCCGGCCGGGGAGGGAAAAAAGACAAAAGGG AC G GAGAAAGAACCGGGAAGAACCCCGAGGGAGGCCCCAAAA A A A A G GCAAAGAACAGGAAGGGGGGGGAAGGGAAAAAAGAAA G GAGGGGGGGGGAAAGGAAACCGGGGGAGGAAGGAGAAAAGA
 A A G G A A G A A A A A G GCCGGAAGGGAAAAAGGAAGGGAAAAAGA G G G G G G G G G G A A A A $\mathcal{A} G A A G G G G G G A A G G G G A A A A A A A G A G G A$ G G G G G G G G G G A A C C A A A A C C A A G G A G G G A GCCA G G A A A C C G G GGCCGGAGGAAGGGCGAGGGGGAAAGAACCGGGAAGGGGGAG $C \subset G G A A A A A A A A G G G G G G A A G A C C A G C A G A G A A A G G G A A A A G$ G G G GAAAAAACCACCCAGCCAAACAAAGAAAAGGAAAAATAG A G G G G G G G A A G G G A A A A A G A A A G G A A A G T T A A G G A A G G G G G G G G G G G G A A G G A A G G C C A A G A G G A A A A G G G G G G G A G A C C G G A A
 CAAAAACCCCCCCAAAAACAACGGGAAGAAAAAAGAGGGGGA TA $A G G G C C G G G G G A C C A G G G A G A A G G A G A G G G G G G G C C A A G A$ C C GAGAAGAACCCCGGAAAGAAAGGAGCAACCCAGGAAAAGG A A G G G G A A G G G A A GCCGGAACAGGGGAAAAAACAAGG
GCCGGACGGAAGGGGCGAAGGGGGCAACCAGGGGGAAAAGG GAAAAGCCGGGAAAAAGGGGGGAACAGAGGGGAAAAAAGGGG G GACGGAAGAGACAGGAGAAGGAGAAGGGGAAAGACAA GA GA A GAGGGGAAAGGACGGAAAAAAAAGGAAGGGAGAAAAA GAAAA
 C C G G G A A C G G G GA TA $A \operatorname{AGGGGAAAAAAAGGAAGGGACAGACAA}$ G GAGGAAAAAGGAAGGGGAAAAGGAGAAAAAAGGCCAACAAA A G G A G A G A G G G GA $A$ A $A$ A $A G G G G G G A G G G G G A A G G A G G G A G A G$ G G A G G G A A A G G G G G A A G G A A A G G A G G G A G A G G G A G G G G G G A A A A G G G G GAGAGGGAGGAAGAAAAAAAGGCCGGAAGGGAAAAG AAAGAGGGAAGAAAGAAAGGAGAGCAGAACCCAAAAAAAGAG
 G GAA A GAGGGGGAAGGCCAAAAAGAGACGAAGGAAAAAGAAA G GAAAAAGAAAGGGGAAAGGGAAAGGAACCGGGGAAGGAGCA $G G C C A A A A G G G G G G G A A G A G G A G G G A A A A G G A C A A A G G A G A A$ G GACGGGGGGGAGAGAAGCAAAAACCAAGGAAGGAAAGAGGG G GAAAAGGAAAAAGAACCAGAAGGAAGGCCGGAACCAAAGAC A G GA A GAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACAGA GAAGAGGGAAGGGGAAGGGGAAGGACAAGGGACAGAAAAGAG $A C G A G A A A G G A G G G A A G A A A C C G G A A A A G G A A A A A A G G G G G G$ C C G G GAGGAACAGAAGGAAAGGAAGGGGAAGGGGAGAAAAAA A A G G G A G G G G C C A $\mathcal{A} A G G A G A G G G G G G G G G G G G A A G G G G A A B G$ G G G G G G G G A A A A $\mathcal{A} G G G G G A A G G A A A A A A A A G A G A A G G A G A A A$ AAGGGGGGGGAAAACGGGAGAATTAGAAGGAAAAGGCCCCGG G GAAGATTAACAGATTAGCAAAGAGAGCAAAAAAAGAAAAAG A A G G A GCCGGCCGGGGGGGAGGGGAGCCGGAAGACCAAACBG A A A G A A A G G G A A G G G G A A A A A A C A A G G G G G C A A A A CAA A G T A CCGAAAAGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAACA GAAGAAAAAAGGGGAAGGAAAGAGGGCCAAGGATGACCAAAA
 G G A A A GACAAGAAGAGAGAGAAAAGGCCCCAGGAGGAAAAAG GACAACAAGGAGAGGGGGATAAGGGGGGATGGCCGACAAGAA AAAAGGGACCAAGGGAGAAGGGCCGAGAAGGGGAGGGGAAAG GAAGGGAGGGAAGAGGAAACGAGAGGAGAACGTTAAAAGGAG A A G G A A A G G A G GAA $A \operatorname{G} G A G A A C C A G G G G G A A G G A G C C G G A A A A$
 A GACAAAAGGGACCGGGAAAGAAGAAGGAAACAAAAGGAAAG GACCAGGGGGAAGGAAGGGCGAGGAAAGGAGAAAAAGGAGAA GGCCAAGGGGAAGAAGGGGGCAAAGGAACCAGGGGGAAAGAG G G G G G G A A G GAA $A \operatorname{A} A A G G A A A A G G G G G A A A A G A G G G G A A A G G$ G G G G G A A GAGGGGAAAGGCCAAGGAAAGAAAGGAACGACAAG CAGGGAAAACCAAAAGGGGGGGAGTAAAGAGGAAAGAGAGAA G G G G A A C C A G A G A G G G A G A GAGGGGGAAAGGAGGGGACAAA G G G G GAC C G A GAA A GAGGGCCAGGAAAGAAGAGGGGAGAACAA G GAAGGAAGGCCAAGGAAACAAACGGGGAAGAAGAAAACAAA C CAACCGGAGAGAAGAAAAAAAGGGGAAACAAGAGAAGAGBA A G G G A A A A A A G GACAGGGCCGGAAAAGGGGCCAAGGACAGAA G G G G G G C A G G G G GAAC GAAAAGGGAGGAAACCGAGAAAAAGA G G A G G G A A G G A A C C G G A A A A G G C C G G A A C C G G G G G A A G G G G G G GAGAGGGAAGAAGGAGGAAGGAAAAAAGGGGAGAAGGGGGG AAGGGGCCAACCGGAAAAAAGAGGTTGGAAAAAGGGGGAAAT C C C C A A G A G G A C A GAGAAGGAAAAGGAAGGCCAACCCAGAGG A GAGAAGGAGGAAAAGCCAGAGAGAAAAGGGAAGAAAAGGAA GAGGGAGGGGAGCAGAAAGGAGGAGGCCAGACGGAGAGAGAA A A G G G G G G A G G A T T A C A A A G G G A GAGGGGAGGGGGGGAAAAA GAGGGGGGGGGGAAAAAAAAGGAAAGGGCAACGGGGAACAAC A GAAAGAAAACCAAGGAAGGAAGAAAAACGGGCCGGAGAAGG C C C C C CAA $A \operatorname{GAAAAAGGAAAAACAGGGGGAACCAAAAAGAAAA}$ AAAAAAGGCCGGGGGGGAGGACAAACAGAGCCAAAGAAAGAA A G A G A A A G G A G A G A A G G G A G A G A G C C G G A A A G G A A A A A G G G G GACAAGGGGAACGGGGGGGAGGGGAGGGCAAGAAGGAGAAGG
 A A G GAA $A \operatorname{G} A A A A A A A A A C A A G G A A C A G G A A A G A A G G G G G G G G A$ C C G G A A G G A A G G A A A A T T G G G G A A A G G G G G A A G G G A A G A G A GACCAAGAGGGGCCGGAGGGGAAAGGGGCCAGAGCCAGAACC C C A A A A G G G G G G G G A A A A G G G G A A A A A GAA A A G G GAAAA A A G A GAAAAGAGGGACAATACAGGAAAGGCCGGCCAAAAAAAAGA A G G G A A G G A G A G G G G G C C G G G G G G T A G G A A A A G G A A C C A A G G
 $A A C C A A A A G G A G A A A C A G A G G G G G A G C C A A A A G G G G G G G G G G$ G G G GCCGAGGGGAAAGAAGGACAACAGGAAGGAAGAGAGABA GAAAAGCCGGAGGGCCGGGAAACAGAGGGATTAAAAAAAGAA GAA A A A A G G G A A G G G G A G A G G G G G G G A A A G G G A A G A A A G G G G A A G G A A A A G G A GAA $A \operatorname{A} A G G G C A G T T A A G G G G A A A A A A G G A G A A$ A A G G G GAAA A A A GAA $A \operatorname{A} G A A G G A A G G A G A A G C C G G C A G B A G A A$ AAGGCCGGCCCCGAGAGAAGCCAAAAAGAGAAAAGAAGAGAG GAAAAAGGCCGGGGAAGGGAAGAAGGGGGGGGGGAAGAAAGG G G G G G GAA $A \operatorname{Gg} \operatorname{G}$ GAAGGAAAAAAAAAAAAGGGGAACCAAGGCC
 A A G G A A A A G GAGGGGGACGGAAAAAAAAGGCAAGGGGAAAAA GGGAGGCCAGCAAAGGACGAGGCACCACACAGACAAGGAAAG A A A G G G G G A A G A C C G G G G A A A A A A G G A A G A A A G G C A A G A G A A G G G G G G G G A G A A A A A G A G A A A A G GAGGACACAAACCAACAAA $C \subset A A A G G A G A G G G A G G G G A G A A A A G G A A A A G G C C C C G A A A A A$ G G G G A A A A A A G GAAGGGGCCGGCCGGCCCCGGAAGGAAAAAG G G A A A A G GCC G A GAGGGGGGATAGAAAAAAAAGGGGGGGGGA G G G A G A G G G G A G A T A A G G G G G G G G A A C C G A A G A G G A G A G A G G $A A A G A A G G G G A G G A G A A A G G C G A T A A A A G A G G G G A G G G A A G G$

G G A T A A A A A CA A A A G G G G G GAGAAGGAAGGAAAAAACAGAGG AACAGGAGAACACAAAGGGGGAACAAAAAAGAAAAAAGAAAG AA GAACAAAAGAAACCAAAGAAGAAAACAAGGGGAAGGAAAA $C \subset G A C C A A C C A A G G G G A A A A A A A A G G G G G G G G G G G G A G A A A C$ GAGACCAAAGAAGAGGAGCCGGCCAGGGGGAAAAAAGAAAGA G G G G A A G G A A G GCCAA G G A A A A A A A A A A G GAA G GAAC CAA G G AAACGAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAAAAAAA AAGGAAGGAAGGAAGGAAAAAAAAAAGGCCAACACCCCAAAA $G G A A A G A G G A A G A G A G A G C A G A A G G G A A A G A A G G A G A A G A A A$ AAGAGAAAAGGGAAAAAAGAAAGGGGGGAGAAAAAGGBAAAG G GAGCCAAGGCACCGGGAGAAGCCACAAACAAGAAGGGGGGG GACGGAGGAAAGGGGGGAAACCAAAAAAAACCGBAAGGGGCC G A G A A G A A $\mathcal{A} G G G G G A A G G T T G G G G G G A A G G G G G G G G G G A G G G$
 G G G GAAAAGGCCCCGGGGAGGAAGGAGGGAGAGGCAGAAAGA GAGAGAAGGGAGAGGGAGCCAAAACCAGGGAAA GGGAGAGCC AAACGGAAAACCGGATGGAAAAGGGGCAAGAGAGGAACCCGG A A G A G A A G CAA $A C C G G G A G A G G G G A G G G A G G G C G G G A C A G G G$ G G G GAGAAAAAACCGAGGGAGAGGCCGAAAAAAAGGAGACAA AACCGGAAGGGGAAAAAACCAAGGAAGGAAGGGGGAAAAAAA GAAAGAGGAGGAAACAGAGGAGAGCCGGCAGGGGAGCACAAA GAGAAGGGGGCAGAAGAACCAACGAGGGGGAACAGAAGAAGG CAAGGAGAGGAAGGGGAAGGGGGGAAGAAAAAGGAAGGAACC GAAGAAAAGGAAAGGAGGGAGGCCAACCCAAACCBAAGAGAG C CAACAAGAGAGGGAAAAAAAGCCGGAAAAGGAGGGAAAACA C CAAAA $A \operatorname{ACCA} \mathrm{C} C \subset A A G G A A G A C C A A A A G G C C A A G G G G G G G G$ AAGGAATTAGAGAACAAAACGGAAGGAAAAGGGGGGACAAGAA C C A A G A G G G G A A A A A A G GA $A \operatorname{GGGGACCAGGGGCAACAGAAAGG}$ G G GAAGGGAGGAGAAAAAAAAACCGAGGAAACGAAAACAGAC A G TAAAAGAAAAGGGGGAAGGAAGGAGGGAAGAAGA
A A A G A A G A A G A A A G G A A A G G G GAGGCGAAAGAGAGAAAGAG A GAAGAGGCCAAGAAACAGAAGGGGGGGGAGGGGAAAAAAAA $C C G G G G G G A A A A G G G G A A C C G G G G G G G G G G G G G G A A A A A A A G$ GACAAGACGAGGGGGGAAGGAAAGGAAAGACCGGCCAAGGGG AACCGGAGAAGGAAGAAAGGAACCAGTAGGAAGGAAGAAABA A A G G A A A A A A G G A A A A G G G A A A G GAAAAAAAAAAA G G G GA GAA $C \subset G G G G A G A A C C G A C A G G A A A A A G G A A G G G G G A G C C G G G A G G$ AAGGAAAAAACCACGGGACAAGGGCCAAAGTAAACCCCAGAAA G G G G A A G G A G G A G A C C G A A G A A A A A A A A A A A A A A G GCC G G C C A A G GAGGGAAAAGGAAAAAAAAAACAAGGAGGAGCAAAAAAA $G G C C C G A A A A G A G A G G A G G G G G G G A A G G G A C C G A G G A A G A C B$ G G G A A A A G G G A A G GCAAACCGGAAGGCCGACCAAAGAAAAGA AGCCGAGGAAAAGGGAAAGGGGGAAGCCGAAAAAAGAAGAAA GGCCAAAAGAAAGAGGAAAACCGGGGAAGGCAAAAAAAAABAA G G G G G G G A A A A A $\mathcal{A} G G G A G G A A G G G G A A A A G G G G A G A A A G G G G$ A A A A C C A ATTAACCCGTTCCGGGGAGAAAAAACCGBAAGGGG A A A A A CAAAAAGAAGAGGGGAGCACCAGCAGGTTCCGGAAAA A GCCCAAAAACCGGGGAGGAGGAGCCAAGAGGAACCGAAAGG G G G GAA $A \operatorname{GA} A G G A A A G G G G G A C G G A A G G A A G G C C A A C A A A A G$ $A G C C C C A A G G A A A G A G G A G A G C A A A G A A A A G G A G G G A A G A A G$ $A G G A G A G A A G G G G G G G A A G G G G G A G A G G G G A A G G B A G G G G G G$ $A C G G G G C C G G G G A A A A A A G G G G C A A G G G A G A A A G A G G A A A A G$ G G A A G G A G G G A A A A G G C C G G G G G A C C C C G G A A G G A A G A G A C A G G G GACGGAAGGGGGAACGAACAGGGAAGAAACCAACAAAGA A G G G C A A G G GCAG G G G C C T T A G A G G A G G CAAC G G G GA GAAAA AA G G A ACCAACCGGAACCGGAGAGAAAAGAGAGGAAABAACC A ACCAAAAAAAAAACCGAAAGAGGGGAAGGAAGGAAGGGGGG A A G G G G A A G G A A G G A A G G G G G G A A G G G G G G G G A A G G G G A A A A AAGGGGAAAAAGGGAACCGGAAGAAAGAAAAACCAAAAAAGG

G G G GAAACAAAAGGAGGAAAAAAGCAAAAAAAATAGACAGAG ACAAGGGAAAAAGGGAATGAAGCAGAAGGACAAGGAAAAGBA A A A A A A C C G A A A G GAAGGACCAAAAAGGGGAAGGGGGGAA GA G GAAAAAAAAAAGGCAAGCCGAAAAAAAGGGGAAAAGAAAAG G G G GAAAGACGGAGAGGGAAGAGAGAGAGAACGAAAGGGGGG A A A G A G A A $\mathcal{A} G A G G A G A G A G G G G A A A A G G G G G G G G G G G G G G B A$
 G G G G A A A A A G G G A A A A G GAGAGAAGAGGCCCCCCAAGGACCC C C G G A A A A A G C A G G C C G A G G C A G G C C G G G A T A G G A G A A G G A C G GAGGGAGAAGGCAGGGGAAGACCAACCGGCCGGGGGGGGCA
 ACAAGGAAAAGGAAAGCCAAGAAAGGAAGGAAGAAAAGGGAG GA $A \operatorname{GGG} \operatorname{GA} A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G G A A C A$
 AAGGAAAAGGAAAAGGAACCGGCCAAGGAAAACCGGGGACAG G G G G GACC G G G GAAAAGGAAGAGGAAAAAGAGGAGACCAGGG
 AAGACCCCGGAAGGAAAAACGGCACCCAACAAGGGGAGAGAA A GAACCAAAAAAGGAAGGGGAGCCAAACAGGGGGCCAGAAGAG G GAG $\operatorname{G} G A G G G A A G A A A C C A T G G G G C G C A G A A G A G G G G A A A G G$ $C G G G G G G A C G C A A A A A G G G A A G G G G G C C A G C A A G A G G G G A G G$ G G G G A G A A A G G G G G G G A A A A G G A A A GAACAAGGGAAAA GAA $A$ GAGAGAAGGGAGGAGACCAGGGTAGAAAAGAAAAAAGGAGAA A A GAGGCCGAGGAGAAGGAGGGAGAGGGAAAACCAGGA GGAB G GAAGGCCCCGGAGCAAGCAAAGGCCAAGAAAGGGGGGAAAA G GAAGGAAGGAAGGCCGGCCCCGACCCCAGAGGGGGGGAAAG G G G G G A A GAGAAGGCGGAGGACCCGGGGAAAAACAACAAGAA GAGGAAGGGGGGAAGAGGAAAAAAGGAAGGGGAAAAAAGGAG G G A A A C G G A A A A G G G G A G G G C A G A A G GAGAAGCCCAA GA GAA GAAGGGAACCAAGGCCAGGGAAAACAAAAGAAGGGGAAGGAA G G G A A G G G A A A G G G C C A A GAGGAAGGAAAAAAAAA GAAA A G G G GAAAAGGGGGGGAGGAAGGAAAGCCGGAAGGGAGGAAGAGG G G G G G G A A G GCCGGAGAGAGGGAAGGAGAAAGGGGGAACAAA
 $A C G A A C A A G G A C A G C C G G T T A G A G G G A G A A G A G A A G G G A G G G$ G GAA A G G G A GAGGGGAGAAAGACAGAGAAGAAGGGGAA GAAA AGGGGGGGAAGGAAGGAGAGACCCACGAGGAAGGAAGAGAAG AA $A G A A G G G G A A A A A A A A A A A G G G G G A A G A A G C A A C G G A G A A$ G G G G A GCCAGGGGGGGGGGAAGAAGGAAAAAAAGAATAAGCC
 GACCGGGGAGAGGGAAAACCAAGGGGAGCACCAGAAAAAAGA G GAAGAAGAGGACCAAAAAGCCAAGAAAGAAAAAAAAAAGGA A GGACCAAAAGGAGGGAAGAACGACCGAACGAGAGGAAAAAA A A G G A A G G A A A GA $A$ A A A A $A G C A G G G G A A G G G G G G G G A G A A C A$ C G G A A GA GAA $A \operatorname{AGGGA} G A A A A G G A A A A C C A A G G G G G G A A G A A A$ G A A A A A A A CAA A A A A A G GAAAGGAAAAAAGGAGGGAAAAAA G AAAAAAAAGGGGGGAAGGCCCCAAGAAAAACCGGGAGGAAAG G GCCAACAGGGGCCAAGAGACAGGAAAGAAAAAAAGAAAAGA G G G G G GAAA $A \operatorname{AG} \operatorname{A} A A A A A G G A A G A A G G G A A A G A A G A C A G G G G G$ AGGAGAAGAACCAACCGGAAAGAAAAAAAAAGGGAAAAGAAA G G G G A A A A A A G GAAAAA A G GAA A G TAAA A G G GAAA G CAC C G A A GAACAGGAAAAAGAAGGAAGGGAGAAAGGCCGGAGAAGAAA G G G A A A G G C C A A A G A A G G G G A A G G C C G G G A G G G G G G G A G G G G G G G G G A A GCGAGAAAAAAGGGGGGAAAAAAGAAGGGAACCGG G GAGAGAAGGGGGGAAAAGGAAAGGGGGAGGCAGACCAAAAG CAGAGGAAGGAAGGAAAAAAGGAAAACCGGACAAGGGGAGGG ATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGB C C G G A GA G A A G A GAAAGGAAACCAGAAGGAAAAGAGACAACC GATAAAAAGGAAAAGGGAAACGGAGGAGGGAGAAAACCGGAG

A ACCACAACAAGTTAAACGACCAAGGAGAGGAAGGCCAAAAA G G GACCAAAGCCTAAGAGGGGGAGAAGAGGAAAAGGAAGGGG AAGGCAGGGGGAAAAGAGACGAAAGGCAGGGACCBGCAAGGG GACAAGAGAAGACGAACCAGGAAGACGAAACCAAAGGGGGAG G G G GAGCAAACCCGCAAAGGGGAGAAAAAAAAAAAAAGAAAG G G A A A A ACAAGAGAAGCCATAGCACCCCAAAAAGATAAATGA GAAAAAGGAAAAGAGGGAAGAGGAGAGGAGAAAAAGAAAGAA CAAAAGGGGAAAACGGGCAAGAGACGGCACGGGGAGAAAAGG GAGGGGAGCGGAGGAAGGAGGGACGGCCGGCCCCACGACAAG G G A A A A G G G G G GCA GAGGAATXCCACCAAAGGCCCCAAAGAA G GCCAGCCGGGGGAGGAACCAGAAAGGACCGGGAGAGGGGCC
 $G G A A A A A A G G A A G G G G G G G G A A G G A A G G G G G G A A G G C C A G A A$ A A G G A A A A G G G G G G G G G G A A G G G G T T G G C C C A A G G G G G G A A A A $C \subset A A C C A A A A A A A A A A G G A A A A G G G G G G G G A A A A A A G G G A A A$ T TAA A G G G G GAAGGAAGGGGGGAAGGAAGGAAGGAAAAAGAA
 G G A A T TAAAAGGAAAACCAAGGAAGGAAGGAAAAGAAAAAAA $G G T T G G A A A A G G C C C C G G C C A A A A G G G G G G G G G G G G A A A A G A$ G G G G G G G G G G G G G G A A G GAA A G A A A A G G G GAA $A \operatorname{AGAAAAAAAA}$ G G G G G G G G G GAA $A \operatorname{GAAAAAGGCCAAAAAAGGCCAAGGCCGGGG}$ G GAAGGAAAAGGAAGGAACCGGGGGGAACCAAAAAAAAAAAA G G A A T TAATTAAAAAAAAGGGGAAAAAAGGGGAAAAAATTAA A A A A A A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G A G A A$ A A A A C C A A G G G G A A A A C C A A G G G G G G G GAAAAAAA $A$ A G G G GCC GGCCAAAAAAGGCCAAGGAAAAGGGGAAAAGGAACCAAAAGG AAAAGGGGAAGGAAAAGGGGGGAAGGGGAAAAGGGGAAAACC AA $A \operatorname{Gg} \operatorname{Gg} \operatorname{G}$ GAAAAAAGGAAAAAACCGGAAAAGGAAAAGGAGAA G G G GCCGGAGGGGGGGAAGGGGAAGGGGCCAAAAAAGGAAAA AAGGGGCCAAGGGAAGGGCCCCACAAAAGAAAAAGGG
GAAAAGGGGCCCAAGAGACAGGAGGAACCAACCCCAAGCAG AAGGAAAAAAAGAAAACCGGGGGGAACACAGAAGAAGAGAGG G G G A T T G A A A A G G GAGGAAAAGGAGGGGGGAAAAAACAAAAA G G A G A G A G A G G G A G G G A G G G G G A A G G G A G G G G A G A A A A G G A A CAAGGGAAAAGGAGGAGAATAGAGCCAGAAGGCCGAGCCCBG A A C C A A A A A A A A A A C C GAGAAGAAGGGGGAGGAAA GAACAAA G GAAAA A A G GAAAGGGAAGGGGGAGGAACCAAGGTTGGAGAG
 A A G G A A G GCCAAGGGGGGAAAAGGCCGGAAAAGGAACCCCBG G GAGAA $A \operatorname{A} A C A G G G G G G G A A A A A A A A G A A C G A G G A G A G A C A G$ A GAAAAAGGAAACCCCGGGGAAGGAAGGAAAGGGGGGGGGCC CAAAAAGACCCCGGGGAGGGGGAAAGGAAGGAAAAAAGAGGG CAAGGGAAGAAACCGAGAAAAGGAAGAGGAAAAACAAGAAAA ACAGAGAACCTTGGAACAAAGAAGGGGAGGAGGAAAAAAAGA G G G G G A A C A G A GAA $A \operatorname{G} \operatorname{A} T \mathrm{~T} A A A G G G A G G A G A G C C G G A A A G A G G$ G G G G G G A A C C G G G G G G G G C A G G G G G G G G A A G G G A G G A G G A A $G$ A G G G A A A A C C A A G G G G G A G G A A G G G G G G G G A A A A G GAAA CA A G GCCTTGGGGGGAAAGAAGGAAAAAGAAAAGGAAAGAACAAA G GACAAAAAAGGGGAAGGAAGGGGGGAAGGAAAAGGGGAAGA A A G G A A A A G G G GAAAAAAAAAGGCCGGAAGGGGGGAAAAAA G G G GAA A GCCGGGGAAGGAAAAAAGGAAAAAAGGAAGGGAAAAA T T A A G G A A A A C CAA A G G G G G G G G G A A A A A A A A G GAAC CAAA A G GAAAAGGGGCCGGAAAAAAAACCCCCCAAAAAAAAGGAATT AACCTTAGGCAACCGGGGGGGAGAGGAAAGGAGGAGAAAAGA GAGGGAAGGGAAGGAAGGAAGGGGGGGGAAGGGACAACACAA $G G A A G G A A A G G A A A G G A A G G A A G G A A A A A G A G G G G A G G A A A A$
 A A G G A G A G G G A G G G A C A A G GA GAG G GAA G G CA A A G G C C C G A G GACAGAGAGGGGGGGGGGGCGGGAAGAGGAACGCCCAAGAAA

G GAACCAAAAAGAGGGCGAAAGGACCAAAGAGAGAAAGGAG G G G G A A G G G G A A G G G G C C G A G G A A G A GAG GAAA A G G G A G A T T GAGAGAAAGGAAGAGAAAAGAAAGAGGAAGAGAATTCAGAAG A GAGAAAAAAAAACCAAGAAAAAAGAAACCACGACCAAGAAA
 A G G GAGCCAAGGAACCGGGGGGAAAAAAACAAAAACGGGGGG
 AA G GAGGAAACAAAGAGGGAACAGAGAGATCGGAAAGAGGAC
 G GAGAGGAAGCCGAGGAAGGGGAAGAAGAAAAAGGAGAAAAA G G G A A GAA $A \operatorname{GA} A A \operatorname{A} G \mathrm{G} A \mathrm{~A} G A A A A A A T A A A A A A A A A A A G G A G G C$ G G A G G G A A C C G G A A G G G G G G G G A A T T A A A A G G G G G G A A C C A A GGCCAAGGAAAAGGAAAAGGAAGGGGGGAAGGAAAAAAGGGG C CAAAAGGAAGGGGAAAAGGAAAAAAGGAAGGGGAAAAAACC C CAAAAAAAAGGGGAAGGCCAAGGGGAAAAGGAAGGGGAGAA G GAAAAAAAACCAAGGAAAGAGAGGAGGCCCCGGAAGGACGG TAAAAAGAGGGAGGAGCACCGGGAAGAGCCAGAGCAAAAGAG G G G A G G G A G A G G GCACAGGGGAGCAACCCCAAACGGAACCTT $A G A G G A G G A A A A G G A A G G G G A A T T A A A A G G G G A G A G A A G G G G$
 GAA A G G G G A A G G GAGAAACCGGCCAAGGAGGGGGGAAATTAA C C G GAAAACCGGGAGGGGAAGGGGAAGGCCAAAGAAGGAAGG
 GAAA A $A \operatorname{AG} \operatorname{A} A C G G G A A G G G G G G G A C C A G A A G A A G A A G G G A A G B$

 G GAGAAAACACCAACCGGCAGAGGGAGGAGGAAAAAAAGGGG G G G G A A C C G G G A G G A A G A A G C C A G G G A A A C G G A GA G G G A C G A G G G GAGGAGGAGAGAGAAAGAAAAAGGGAGAAAGAAGGACAA $A C G G A G A A G G A G G G G G A A G A A A G G G G G G G A G A A A G G A G A G G G$ A G G G A A G G A A G G C C G G A A A A G G A A G G G G C C G G G G A G A G G G A C GGCCGGGAGGGGACAAATGAAACCAAAGGAAGAAGGAGACAG A GAGGGGGGGCCAAAGGAAGAGGGAAAGAAGGAAAAAAAAAC
 G GAGGGGAGAACAAGGGGGGCCAAGCGAAGAGAGGGGGAGAG G G A G G GC C G G G A A A G A A G G G A G A A A G G G A C G G A A G G G G G G A G A GCCAGCAGGAAAAAAAGATGGAGGGCCAAGGAGAGAGAAAC C GAGAGCCCCAAAAGACAAAAGGGAAAAAGAAAAGGGGAACC TACAAACCAAAGAGAACGAACAAGCCGGAAGAAGGGGBAACC A A A A A A A GCAACGGGAGGGGGGGAAAGGGAAACCCCGAGAAG GGGCAGACGAGGAAAAAAGGGAAAAAAAGAAAACAGACAAAA AC G G G G G G G GCCCACAGGCCGGAGAAAGGAGGGAGAAAGGGG AACCGACAAAGGAAAAGGGAAAAAGGAAGGAAAAGGAGCCGG A A A C A A G G G G G G G GAGGAAGAAAAGGAGGACCAACCGAAAAA $G G A A A G G A A A A A G A C C G G T T G A A A A A G G A G G G G A A A A G A A A A$
 G G C C A A G G GAGGAGAGAGAAAGAAAGAAGGAAAGAGAAAACA A GAAAAGGCCGGGAGAGGGAGGAACCGGAGGGGGGGAAAAGG G GAAGGAAACAAAAAGGAAGGAAGCCAAAGGGCAAAACAGCAA

 GAAGCAAGAGGGGAAGAAGGAAGGGAGGGGAAAGGGCCABAA GACAAAAAAAGAAAGGAAAAAAAACGGGAGCAGAAAAGACAG TATTGCAGAAACGGGGAAAAGGAAGGAATTAGAAGGGGAGAG AAAGGGAGAAAAGGGGAGCCAGAAGGAAGGCCAAAGGAAAGG
 A A A A G G A A GA $A$ A A A $C$ A $G G A A G G A A A G G G G G G A G G G A A G A G G G G$
 G G G GAAGGGGAGAAGGGAAGGGAAAAGGGAGGCAAGAAAAGA

A A A G A A G G G G G G GAACAAAAGGAAAAGGGAAGACCCGGGGCA A GAAAAAAGGGGACCAAAAGGAGGCAAAGAAAGACAGAAGGG A A A A GAG $\operatorname{A} A C G G A A G G G G G G G G G G A A C C G G A A G G G A A A C C A G$ A A G G G G G GAGCCACAGAAAAGAGGAAGAGGGGGACCAAGAAC ACGGCCAAGAAAAAGGAAGGGAGGGAAGGAAAAAAAGGAGAA G GAAAAGGAAGGCCGGAAAAGGGGAAAAAGAAGAAGGGCCGG $A C G G G G A A A G G A C C C C G G G A G G A G G G G A G G G A G G C C G G C C G G$ CCAGATGAAAGAAAAAAGGAAAAACAGGAAGGGGCCAAAAAG G GAGGGAGAGAAGGAAAACCGGAGCCAAGGGGAATTAAAAGA GGCAAGAAGGGGAAAAAAGGAAAAGGGGGAGAAGAACCACCC AAGACCGAAAGAAGAAGGGGAAGAAAAAGGGAACAAGAAAAA A GAGGACAAAAAAAAAAAAGGGAAACAAGGGGAGGGGAGAAA A GAA $A$ A $A G G G A A C C G G A A C A A A A G A A A A A C A A A A G A G G C C B A$ $A C G A G A A G G G G G G G G G A A C A G G G G G A G A C A A A A A G G A A G G A A$ AA $\operatorname{Ag} \operatorname{G} \operatorname{GAAAAGGAACAAAAAGAAGGAAAAGAGGAGGAGGAAAA}$ C GAA $A \operatorname{GA} A A A G G A A G G G G C C G G A A G G G G G G G G C C A G A C A G G A$ A G GA GA A A CAA $A \operatorname{GA} A \mathrm{GA} A A G A A A G G A A A A G G A A A C A C G G G G G G$ A A T T GAGGGGCCAGAGAAAACCAGAGGAAAGGGGGGGGAGAG $G G C C G G G G C C A A A A A A A A A G G A G G A A G G A A G A G G A A G G G G A A$ G G G G G G A A G G A G G G G G A CAGGGGGAAAACCAAAAATGACAAC CACAAACCGAGGAAGGGGAAGGTAAAGGGGAAGGAAGGGGAA C C G G G GAAAAAAAGCCAAGGAAAAGGGGGAAAAAAAGAGCGG AGAGCCCAGGGAAGGGAAAAACGGAAAAAAAAAAGGGAAACC
 G G G G G GAAAAAAAAGGAAAGAGGAAGAGGGGGAAGGGGAGAA G G G G A A G G G G G G A A G G G G A A A A G GAAAA $A$ A $\operatorname{A} A A A A A A A A A A G G$ G G G GAA $A \operatorname{GAA} C C G G G G G G G G A G A G A A C C A A A A G G G G G G A T G G$ AGCACCAAAAAACAAGGGCCCCGGAAAAGGAAGGAGAAGGGA A GAA $A \operatorname{GA} \operatorname{A} A C G A A G G G A A C A T T A G A A G G G A A A G G A A A A G G A A$ GACAGGGGAAAAGGAACCCCGGCCGGAAGGCCGACGC
CAAGGGGAAGAAACCGGGGGGAGGGAATAGGAAGAAAAAGG G GAAAACCGGGAAAAAAGGGAGAAGGAAGGAAAAAAAAAGAA G GAA A G G G A A G GAA A G T T A A A A A A G G GAA G GAA G GAAA G GA A CAGAAAGGGGAAAATTCCCCGGGGAAAACCAAGGGAAGAAAA A G G G A A A A C C GACCAAGGGACAAAAAGAGGAAGAAGGACA G G $A G C C A A G G A A G G A A G G G G G G A A G A A G G G A G G G A A A A G G G G G G$ AAAAGGGAGCCAACGACAGGAAGGGGAAGGAAGGAAGGAAAG GAGAGGAGGGGGAGCCGAGAGGCCGGGGGGGGAGAGGGAAAA AACCAAGGGGGAAGCCAAAAAAGGACGGAAGAGAAGGAAACC G GAAAAGGAAAAGAAACAGGAGAAGGAAAACCGGAAGAAACA A A C C A A A CTTGGAGAAAGAAGGAACCAAGGAAGGGAGGAGAA G G A A A A G G A A C CAA A G G GCCGATAGAAAGGGGCCAAAA G GAA GAGAAAGAAGGAAGAAGAGGGGAGAGCCGGGGAAGGGGAACC A A G GAA A G G G A A A A A A A A A A A A G GAAGGAAAACA G GAAAAAA G GAACGGGAAAAAGACCCCAGAAAGAAAAAAGAAAGGGBAAAC G GCCGGAAAGGGGGCAAGAAAAGGAAGAAAGAGGAAAAAGAG GAGGAGGGAACCAGGAAGAGAAAGAGAGAAAAGGAGAAGAAA
 AAAAAGAGAGAGGAAAAAAAAAAAAAAAGGCCAAGGAAGGGG G GAA A G G G G G A A C C A A G GCCGGAAGGAAGGAACCGGCAAAAA A A A A A A A A A A C CAA $A \operatorname{GAAAAAAAAAGGGGGGGGAA} G G G G G G G G$ G G G G G G G G G GCCAAAAAAACATTAAGGAAGGAAAACAAA GGGG G G A A A A C C A A G G G G G G A A C C A A A A A A A A G GAATTAAAA G G A A AAAAGGAAGGAAAAAAGGAAGGAAGGAAAAAAAAGGGGCCCC G G G G A A G G A A A A A A G G A A C C C C G G G G G G G G G G G G A A C C G G A A C C G GAA A G A A G GAA $A \operatorname{G} G C C A A A A G G G G G G A A C C A A T A G G A A A A$ A A C C G G G G A A A A G G G G G G T T C C A A G G A A C C A A T T G G G G G G G G G G G G A A A A A A G G G G G G A A G G G G G G G G A A C C C C G G A G G G G G A G GAAGAAGGGGGGGGGGAACAAGAACCAGGAGGGAAGAGGGCC

GAAGGGAAAAGAGAACACAGAAAAGGAAAAGAGGAAAAGGGG A A A A A A A A G G G G GA $A \operatorname{G} \operatorname{A} A A A G A A A C A G C A G G A G G A G G A G G G G G$ A A A A G G GAA $A \operatorname{G} \operatorname{A} A \mathrm{~A} G \subset A A A G G G G A A G G C C A G A A A A A G G G G G G G$ GAGGGGGGAAGGCCAAGGGGAAAAAAAAAAGGAGGGGAGGGG G GAAGGACGAGGGGAGAAAAACACGAGGAGAAGGGGCCCAAA A GCA $\mathrm{C} A \mathrm{~A}$ G GAAAAGAGGAAAAAGGGGCAAGGAACAGAGAGAC ACGACCGCCCAAGGGAGGGGAAAGCAAAAAAAAGAGAAAGAG $G G C C G A G A A G A A G G G G G G C C C C G G G G A A A A A A G G G G G G A A A A$ AC GACCGGGGAAAAAAAGGGGAAGAGAAAGGAAGAACAAAAG AGGGAAAGACGAAGGGACGGAGAGACAGGGGGGGAAAAAAGG G G G G G G A A A A G G G G G G A A G GCCAGCCAAGGAGAGAAGAAA GA


 GACCGGAAGAAACCGGAGAAGGAAGGGGAGCCGACCGAAGGG AAAGGGAAAAGAAGAACCAAAGGGGGAGCCGACGGAACAACAC
 A G G A G G A G G G G A A G G A A A A G G G G A A A G A A GAA G GAA G G G G A A $A C G A G G A G A A A G A G A G A A G G A A A G G G G G A G A G A A A A A A G A A G$ GAACGGAAGGGGAGGGAAAGACAGGGCAAAAAAAGAAAGAAA G GAAGAACGGGAGAAGAACCGAGGAGGGAGGGGGAGAAGAGA A GAAGGCATTGGCCCCCGCCGAAAGGGGAAAAGGGGGGAGAA GAGGAACCGGGGAGAAAGAAGGAAAAGGGGAACAAGAGAGAA A A G G GCA $\mathcal{A} G G A A A G A A A A A A A G G G G G C C A A A A G G G G A A C A A$ A A G G GAGGCCAAA $A \operatorname{A} A A G A A G A A A G A G G A G G G G G G G A A G A G A A$ GAGGCAACGAGGGGGGAGAAAAGGGGCCACAAAAAAAGATAG AAAACCAAGGAGAAGGAAAAAGGGGGGAAGAACCAGAAAAGG G GCCAGGGGGAAAAAAGGAAACAAGGAGAGGAGGTTGGTTAA G G G G A G G A G G A A G G A G G G G G G G A A G G G G A A A A G A G G A A G G A A $C C G G G G A A C C G G G G A A A G A G A G G G G G A G A A G G A A G A G A A G G G$ GAGAAAGGAAGGGGGAAAAGGGAAAAAACCGAGGATAAACAA ACGGGAGGGGGAAAAAAACCGGGGAAACAAGGAGAGAGAAAG A GACAACCCCAAAAGGGGGGCCCCCCAAGGCCAACAGAGCGG G G G G G A C C G G A G G A G A A G A GAACCGGAAAAAAAGGGAGCCCC GAGAAAAGGAACGGGGAAAAGAAGAGGGAAAACCGGGGAAAA G G G GAA A G G GAACCGGCCTAAGACGGAAGGGGAAGGAGAAAG $G G C C G A G G G G G G A A A A G G A A A A G G A G A A A G A A G A A A C A G G G G$ AAGGAAAAAGGGCCCCAAACAAAAAAGAAGAGGAACGGAGGG G G G G A G A G A C C A A G G G G G G G A G A A GAA A A A G A G A A A G A G A G A A GAGAAGGCCAAGGGGAAGGGAAAGGCCCCAAAGACAGAACA GGCCGGGACAAAGGAAAGCCGAAGAAGACAAAAAGGGGCCAA A A G G G GCCGACCACCCGAAAAAAAGACCAGAAGACCAAGGCC G G G GAA A G T TAA $A \operatorname{AGGGGGGGAAGGAAAAAAAGGGAACCGGGG}$ AAAACCCCCCGGGGGGGGGGGGCCAAGAACAAGGGAAAGGGG G GAA A A G G G GATGGGGAGGAGAGAGAAAACAAAACCGAAA GA GAAGGGGGGGAGAAGGGACACCAAGGAAGACCGAGGGAGGGG ACCCCCAGAAAAAAAAAAACAAGAGAAAGCGGGAAAGGGGAA A G G GAACACCAGAGAGAGAAAGCCAAGGAAAAAAAGAGACGA G G G G A G A A A A G G A G G G G A G G A G G G G GAC G G CA $\mathcal{A} G G G G G G G G G$ A A G G G G A A G G G G G G A A A A G G G A G G C C C C A G GA G G A G G A G G A G G GAAGGCGAAAAACAGCAAGGAAAGGAACCAAAAAAAAAAGG AA G G A A A A CAGGGGAAAGCCGAAAGGGAGAAAACGAAAAA G G A A A A A T TA $A \operatorname{GAA} A C C G G A G T A G A G A A A G G G A A G G G A A A A G A C X G A$ G GAAAACCAAAACCGGGGAAAACCAAAAGGGAGGGAGGGAAA
 A G G G G G G G A A A A G G A A G G C C C C A A GAA G G A A C G G G G A A A G G G C CAACCAGGGAAAAAAGGCAGAAAGGTTCCGACCACGAAGGG $A G A C C C A G A A A G G G C C G G A A A A A G G A G G G G G G A A G G A A A G B G$ G GACGGGGAGGGGGGGGGGGGGGAGGAACCAAAAGGGAGAAA

G G G GAACACCAAGAGGGGAGAAAAGACCAAGGCCTTGAAAAA $A C G G G A G G A G G G A G G G A A A A C G A A G G G A A A G G C C A G A G G G G A$ A A A A G GAA A G A A GAA A A CAGGGGGAGAAGAGAACCCGAAGAA C C G GAA $A \operatorname{GAAA} G \mathrm{~A} A \mathrm{~A} G \mathrm{G} A C A A A C A C A A A G G G G A A G G A A C C G G$ AA $\operatorname{A} G \mathrm{G}$ GAAGGCCGGGAAGAAGAAGCCAAGAGGCCCAAGAGGG GAAACCAGGGGGGAGGAGACGGAAGGAGAAAAGACAAAGAAA A GAAA A A G G A A A A G A G G G A GAGGGAGGGGGGAGGA GAA G GAA GAAAAAGGGGGGGAGGGAGGAAAAAAAAGGAAGGAAGGAAAA G G G GACCCGAACGACAGGAAGGAGAAGAGAGGGGGGAAGGGG AGGGCCGAAGAGCCGAACACAAACAAACGGACAAGAGAGGGG GAGGAGCAGGAAGGCCGAGACCGGAGAGAGACAATTGGAAAC
 C C A GCC C A A A G G GCGGGAGGGGGGAAAACAGGGGGAAGAAAA G G GAGGAGAAGGAAAGGAAACCAAAAGGGAGGAAAAGGAGAG A A G G G GAA $A$ A $A \operatorname{A} A G G G G G G G G A A G A A G G G G A A A A A G G A G G G G$ A GAACCGGGGCCAACCGAGGGGTAAAGAAGAGGAGGGAGGAG A A G GAA A GACAGAACAAGGGGGGGAGAGCAAAGGGGGAAAAA G GCCCCGGAAAAAAAAAAGGAAAACCGGAAGGGGGGGAAABG $G G A A A A A A G G A A A A A A G G A A G G A A G G G G G G T T C C G G A A A A A A$ AAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACCGGCC A A A A A A A A A A G G G GAAAAGGAACCAAAACCGGAAGGAAG GT A A A A A A A A A A G GAACCGGGGGGGGAAAAGGAAAA GAAA G GAAA G G G G G G G G A A A A A A A A A A A A A A A A G G C CAA A GAA G G C CAAA A C CAAAAAATTAAAAAAAAGGAAAAAAGGAAAACCGGGGGGGG G G G G G G A A A A A A G G A A A A G G G G A A G G A A G G G G G G G G A A A A A A G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGGGGGAAGGAGGG A G GAACCCAGACAGGAAGGAAGGAAAGGGGAGACAGGGAAGA GAAAGGACCAAGCCGAAAAAGGGGAAGAACAGGAGAGGAABA A A G G G A A G A A A A G G G G A A G G G G A GAGGGGAAAGAAAGGAA GA A GAAGGGGGGGGAGAGCCGGAAGGGGGAAGAAGGGGG
GAACGACGGAAAGAAGGGGAGAGGGGGAAAAAAGGGGAAGG $C C G G C C A A G G G G A A C C G G G A A A A A G G A G C C G G A A A A G G A G A G$ A A C A A A G G T T A A A A A A A A G G G G G G A A GAGGCC GAAA A A G G A A A GAA $A \operatorname{GGG} \mathrm{G} A \mathrm{~A}$ GAAGCCAAAAAGAACCAAAGGGAAGGAGAGAG GAAGAAGGAGAAAGACAAAAAAGGAAGGAGGGGGAAGAAAAA A A G G A G G G C C A A A A A $\mathcal{A} G G G G G G G A G G A G A A G G A G G G G G A C C C$ GGCCCAGGAGGGCCGGAAAACCAAGAAGAGGAGGAAGGAAGA A G G G G GACGGAACCGAAAAACCAAAAGGCACCGGAAGBAAAA G GCAAATXGGGGGGAAAGCCGGAAAGGGACAAGGAGAAAGAG $A C G A C G C A A G G G A A A A A A A A G G G G G A G G A G A A G G G A A C A G A A$ AGGGAAAGCACCGACCGGAAGAGAGAGGAAAAGAGAAGAGAA A A A G A A G G C C G G G A C C A A A G A A G G G G C C G A A A G G G A A A A A G G AAAAGAGGAAAAGGGGGGGGGGGGGGGGAAGGAAGGAAAAGG

 $G G A A G G G A G G A A G G A G G G G A G A A A A G A G G C G A A A A A A A G G A A$ G GAGGGCCGAAGGGAAGGGGGGCAGGACAACAGGGAAAAGGG A GCAGGGGAAAAGGATGGCCAAAGAAAAAAGAGGGAGGAAAA G G G GAAAACCGGGAGGAAGGGGAAGGCCAGAAAAAGGGCCGG
 $G G T A A A G G G G A A A A G G C C G G A A G A A A G A A A A A A A G G G G G G G A$ AAGGCCGGAAAGAAAAGAAAGAGGGAACGGGGAAAACAAGAC
 G GAAACGGGGGAGGAAGGTAGAGGGGAGGGCCGGGGAAAAAA A GAA A GAA $A \operatorname{G} G \mathrm{G} A A A G A A A A G G G A A G G A G A A A A A A A A A A A A G G$ G G G A A A G C G G G C A A A A A G G G A G G A G G A A G A GAA A A G G G A G G G G G G G G GA $\operatorname{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{G} A C A G G A G G G C C G G G G A A A A G A C A A C A A$ AAAAGGACACGGAAAGTTAACCGGCCGGGGGGAAAAAGACAA $G G A C G G A A A A G G G G A C A A A G G A A G A G G G A A G A G A A A A G A G A G$

A G GAGGCCCAAAAGAGAGGGAGGGAGGACCAGAGAAAGAAAG A G T A G A G A G G G G G G A A G G G G C C A A GAAAAA A A G GACAAACAT C C A G G A C C C C C C G G G G G G A A G G C A G G A GAAAAA A G GAAC C C C G G G GAAGGAAGGGAGGGGAAAAGAAAAACCAAGAGAAAAAGA AACCGGAAGGGGAAGGGGGGAAAAGAGGGGAACCGGAGAAAA G GAGCCAAAAGGGAAAGACCCGCCAGGAAGACAAGGCCAGAA A A C C G G G G G A A A G G G G G G G G G G G A G G A A G G G G G A A A C A G G G A AAGAGGGAACCCAGGCAGATGAGGAAAAAAACGGAAAACCGA
 AAAAGGAGCCAAAAGGCCGAGGAAAAAAGGGGAAGGTTAACC A A G GAAAACCTTACAGACAAGGAGAGAGGAAGAAGGAGAGAG G G A A A A G G GCCAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} A A C G G G G G G A G C A G A A A G G A G A A A G$ CAAGGAAAAAGGCCGAGAAAGGGGAAAAAACCAAAAAAAACC A A A A A A A A C C A A C C G G G GAAAACCACAAGGAGAGGAGAAGAG A GAGCCGGAAGGGGAAAAGGAAAGGGAAAAACGAAGAAAACA AA $A G A G A A C A G G A A A A C C G G G G G G C C G A A G G A G A A A G G C C C G$ C C G GAGGGACAGAAAGAAACGAAAGGAAAACCACBAAGGCBA A A A A A A G A GAGGAAAAGAGGAACCGGGGAGAAAAGGAGAAAA A G G GAGGAGAACGCAAGGAACAAAAAAAAAAAGAACGGGGGG A A G G G G A A A A A GCC GAGGGGTTCCGGACAAGAAAGGGGAAGG AAGGGAAAAAGGGGAGCGAAAAAACAATCCAAGGCCGAAG GA
 A GAC G A GACAG GAGAAAAAAAAAAGGGGGGAGGATTGGAGAA ACGATTGGAAACGAAAGGGGAAAAGGAGGGGGCAAGAGAGAG G GAAGAAAGAAACCGGAGAAAAGGGAAAAGAAAAAACCAGAC GAAAAAGGAAAGGGGAAAGGGGGGGGAGCCAAGGAGCCAAAA AAAAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAAGAAAG GAAGAGGGAAGGGGAGAGAAGAAACCAAAGAAAGGAGAACAC G G G G G G G A G A A G G G G G G A C C A G A A A A A A G GAAA A GAC CAC G A G G G A A A G G A A G G G G GAAAAACCAAAGGGAAAAGGCAAAAGAG AACGCCGGCCCCCCGACCAACCGGCGGGAGAAACACAAGGAA ACGAGAGGAAACGGGGAACAGAGAAGGGGGAGAGGACAAAAA AACCAGAAAAAAAAAAAAAAGAGAGGGGCCAGGGACCCCC GA A G A G G A T A G G G G A G A G A A A A G G A G C A G G T T C C G G G G C C C G G A G G G G A G G G G G A A G A A A $\mathcal{A} G A G A A A G G A A A A A G G A A G G G G A G G G$ A A A A G G G G G A G G G G C A A A A $\mathcal{A} G G A A A A A G A G A A A G G G G G G G G G G$ G GAAAAAAGGAACCGAGGAAGGGGGGCCAAAACCGGAAAAAG GAGAAAGAAAAAAAGAGAAGAACCCCAAGGAAAAGGAAAAAA G G A A A G G A A G G GAAAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A C C C G C G G C C G G C C A G G A G G$
 G G G G G A G G G G A A C C A A G G G A GACCAGGAGGGAGGGAAAA G G G G G G G G G A C T T G G A A A G C A A G A A A A A A A A A A A C G G A G A A G A G A AAAAAGGGAAAGGAAAGGAAGAAAGGCCGAAGGAAAGGAACC GAGGGGACAAGGGGAGAAAACCAGACGGGGAGGAAAAAAACC AC G G G G A A A G G A A G G G A A G G A A A A G G A A C C G G G GCCAAC C G A GACCCACCGGAAAAGAGGAGAAAACAGAGGAGCCBAAAAAAG G G A A G G G A G A C G A G A G A G A A A A G G G G G G G G A C G A GAC C G A A A A A G GAAAAAGCAAAGGAAAGAAAATAAAGGGGGGACAGAGAG GAGGAATAGAGGAAGGAACCGGGGAAGGGGAAAAAAGGAAGG AGCCGAAAAGCCAGAGAAGAAGAGTAAAGGAAAACCAAAGAG AAACAGAGAGGAAAAGAGGAAAAAAAGACACAAAAAAAGGAA A A G G G G G GCC G G GACCAGAATTAGACGGGAAGACGAAGAAAA GCAGACAGGAGGGGGGGGGGGGAAAAGGAGGGCCGAAGAGCC AAAACCAAAAAACCCAAGAGAAAGAAAGGAAGCCCCGAGAAG
 A A G G A A A G A A A A G G A A G G G G G A GAGACAAGAGCAA GAACCCG AACCGGAACCGGTTTTGGTTCCGGAAAGTACCAAAAGGAACA G GCCGAAAGGAAAAAGCCAAAAAAAGAGCCAAAAGAAAGGAG A GAGAAGGAAAAGGGGGGGAAGAGGGAAACGGGGAGCAAAAG

AAAAAGCCACCAGGAAAGAAGGGGGCAAAAAGAACCGGGGGA A A G G G A A A A G GAGGGAGACAAAGAGGGGAAGAAA GAAAAGGG A G GAAAAAAGAAGACCCCAAGGGAAACCGAACCCBGAAGGAG G G G GCCGGGGGGAAAGAACCCCGGGGAGCCGGAAGACCAGAAA A A G GAAA $A$ A $A G G G G G G A A G G A A G G A A G G G G A A A A C A G G G G G G$ C CAGCCGACAAAAAAAAAGGCAGGGGAGCCGGAAAGACAAGG G G A A G A A A G G G A A A A A A A A A G GAAAA GAA GAAAA G GAA G G G G
 CAAAAAAATTGGCCAGACAGAAGAGAAAAGAGAAGGGAACAG AAGAGGGAGGCCAAAACCAGAAGGAAAAGGGGGGAGAGAGGG A G G G G A A G G G A A G GAGAAGGAAGAAGGAAAAGAAGGGAAAAA G G G G G GAACCAAGGAAGGAAAAGGAAGGGGGGAAGAAAGAAA A A A A G GAA A GAA $A \operatorname{A} G A A A A G G A A A A A A A A G G G G A A C C G G G G A A$ AAAAAACCCCGGCCGGGGAAAAGGGGGGGGAACCGAAAAAGB G GAA A G G G G G G GAA A GAAAAGGGGAAGGAAGGAACCGAAAGG $G G C C C C G G G G A A A A C C G G C C A A A A G G C C G G A A G G A A G G G G G G$ A A A A G GAAAAGGGGGGGGAACCGGGGAAGGAAGGAAAAGGGG G G A A A A A A G G G G G GAAAAAAAAAAAGGGGGGAAAAAAAAAGGG $G G G G C C A A A A G G G G A A A A A A A A G G G G A A C C G G A A A A C C A A G G$ G GAAAAAAAACCGGAAGGGGGGGGCCAAAACCGGAAAAAAAA G G G G G GAA $A \operatorname{GAAAA} A G G G G G A A A A G G A A G G G G A A A A A A G G C C$ T T G GAAAAGGAAAAGGAAGGGGAAAAGGAAAAGGAACAAAGA G GAAGGCCCCGGCCAAGGCCGGGGGGCCGGAAGGGGCCAGAA AA $A G A A A A A A G G G G A A C C G G G G A A G G G G G G A A G G A A G A A A G G$ A A GGCCAA GGCCAAAAGGAAAAAAAAAAGGAAAAGGGGGGAA G GGGCCAAAAAAAAAAAAGGAAGGAAAGGAGGAGCCGGAGGA GAGAGAAAAAAAGGGAGGAAAGAAGGCCGGGGAAGACCAAGA G GAAACAAGGAGGGCCGGGGCCGGAGAAGGGAGGGGGGGGGA GA $A \operatorname{GAAAAAAGGGAAAAGGGGGGAAGGGAAGGGGGAA} A A A A A A A$ G G A A G A G A C A A G A G GAGGCAGAAGAACCACCCGAAGG
$G C \subset G G G G C A C A G G A A A A A A A A A A G G C C G G A G A A G G A A A A C G$ AAAGCAGGACAGAGAAGGAAAAGGAAAAAAACGGAACAAGGG G GAA $A \operatorname{GCCA} A A G A G G G G G G G G G A A A A C C G A A A A G T A G G C A G A$ A G GA GACCGGAGAAAGCCAACAGAAGAAACGGGAAAGGGGTT $G C A A G A G A G A G G G G G G C C A A G A G G G G G A G G G G A A G A C G C C C C$ G GAA A G G G G GCCAAGGGGGGGGAGCCGAAGCAAACCGBAGAG GATAAAAAAAGGGGGGCCTAAGGAGGGGAAGGAGGAAAAGGG A GAGGGGGCAGGGACCACCCAGAAAGCCGGGAGAAGGGGGGG A A A A A A A G G GAGAAGGAGAACCAAAAAAAAAAGGGGAAAAAG ACGAAACAATGGCCAAAAAGAAGGAAAAAAGGGGGGAACCBG AAGGGGCCGGAGGGAGGAGGAAGGGGGGGGAGGAAGGAACAA A A GA $A \operatorname{GGG} G \mathrm{G} G A A G G C \subset A A A G G A A A G A G A G G G G G G A A C A G G A G$ AGAAACCCAACCAAAAGAGAGGCCGAGGGGGGCCAGAAGAAG A G GAGAAGGAACAGGGAGAAAAGGGGAAGGAGAACCGAAAAA G GCAAAAATTACAAAGGGAAGGGAAGGAAGGAAGGAACAA G G A A A A G G G G G G GAGGCAGGCCAAGACAAAAGGGAAGCAAAAAG $A A C C G G G G A A A A G G G G A A G G A G G G A A A A A A G A A C A A G A G G G G$ GAA A G G G G GAAAAGAGGGACAAGGGGGGCAAAGAAAGGGAGC GAAGGGGGGGCAAAGAGGAGGAAAGGGGAAGGGGAAGGACCC A A A A A A A A A G GAGGACCCAACCAGAGAAAAAGGAGGGCAGAC G GAACCCCAAAAAGGGGGAAAAGGGGAAAAAAGGAAGAAAGA G G G GA $A \operatorname{GA} A A G A A G G A A G A C C C G G G G G G A G G G G G G A G A A A A A$ T T G G G G A A A A C C G G A A G G G G A G A A A A A G A A A G G A G G A A C A G G AAGGAGGGAAAGAGGGAAGGGGAGCAGGAAGGAAGGGGGGGG G GCCAAGGGGAACACAGAAGAAGGGGAAGGGGAAAAGGACAA A ACCGGAAGGAAAAGGAAGGGGAAGGAAAACCCCAAGAAAGG $G G A A G G A A G G A A A A A A G G G G G G G G A A C C C C C C A A A A C C A A A A$ A A A A A A A A A A C C C C G G G G G G A A G G G G G G G G C C G G A A G G G G A A GAGGCAACGGCAGGGGAAGGACAGAAAAGAGGACGGAACAAA

G GAAGCGGAAGGGGAAAAAAGGAGACCCGACAGGGGAAAACC AAACAGCCGGAGGGGGAAAAAGCCGAAAAAGGACAAGAAAAC C C G G G G A A A A G G G G G G A GAGCCGGAGGGAAAAAGA GAAAA G G AAGGAAGGGGAAAAAAGGAAGGGGGGGGAAGGGGCAAAAAAA AA G GAAAAAAGGAACCGGGGCCGGGGAAAAAAAAGGCCAAGA
 C C G G A C A G G A A A A G A GAG G GA $\mathcal{A} G G G G G G G A A G A G A G G G A A C A$ G G G GAAAAGGGGCCAAGGAACCGCGGAGAAAGGAAGAGAGAA $C \subset G G C A A G G G A G A A A A G G A A C A A G G G A A C A G G C C G G G G A G G G$ ACAGGGGAAAGGGGGGCCAAAAGAGGAAAAGGAAAAGAAAAA A A A A A A G A G G A GAGGAGGAGGAGGGGAGGGAAAAAAAAAAAA G G G G G GCCCCCCGGGGCCGGGGGGAAGGGGGGA$G G G G A G G G G$ GAACGACCACGAGGAAGGAGAAGGAAGGGGGGGGAAGGGGGG A GAAGGCCAAAAGGGATAAGAGCACACCAGAGAGAGCAAAGG A A GA $A$ A $\operatorname{A} G A A G G A A G G A A A A A G A A G G G A G G G G G G C C A A G A A C$ G GAA $A \operatorname{A} A A A A G G G G G G A G G G C C G G G G A G G G G G G G G G A G G G A A$ A A G G G G A A G A A A G G G G G A A G G G G A A G G A A A G G G G C A G A G G G A A A A G G A G G GAGCGGAGAAAGGAGGGGGAAGAAAGAAGGAGCC $A C G G A G G G A G A G A C G A C C G G A A G G A A G A T T A G A A G G G G A G A A$ GAGGAAGACCGGAGACGAGAAGAAAAGCAAAAAAGGAAGGCA GAAAGGACAGAAGGCCGGAAAAGGGAAAAGAAAGAGAAAAGG
 GAGGAAAAAAACGACAGGAGCCGGGGGAATAAGAACGAAGAA A A G GCCAGCCGAAGAAAACCGGGGAGGAGGGAAAGGGAAAGG C C G A A A C CAAA $A \operatorname{AGGGGGAAAAAAAAGGAAAAAGAGGCCCCCC}$ GAACAAAAAAAGAAAAGAGGGGAGCCCCCCAAGAAAGGAAGG AACCGGAAAGCAGGAGGGAACCAAGGAAAGACAGAAAAGGGG
 G G A A C A G G A G G G G G G G G G A A G G G G G G G G A C G G G A G G C C A A G G C CAAAAAAGGAGGAAACAACGGGGAGAACCGACAAGAAGGAG G G G A G G A A G G A A G G C C G A A A A GA $A \operatorname{GGGAAAAAAGGGCGGABAA}$ G G GAGGAAAGGGAAGGAAGGCCAAGGAGACAAGGGGAGAAAG G GAAAAAGAAAAGAAAAAACAGCCGGAAAAAAAAAAAGGGGG


 A A A GAA A G G G G GAAAAAAAAAAGGGGAAAAGGCAAAGGGGGA G G G GAAAAAACAGGAGAGGAGAAGAGAGAGGGAAAAAAGGGG G G G G A G C A A A G G G G A G G G G G C C A C C CAAAGGGAGAGAAACAA
 AAGGAAAGAAGGAAAAGGAGAACCGAGAAAAAGAAAGGAGCC A A A A A A A A A G A A CAA $A \operatorname{AGGGGGGAAAAAGAAAGAAGGAAGGAC}$ A GAACACAAGGGGGAGAAAAAAAGAGGGGGAGAAGACAAAAC GAGAGAAGGGCAAGAGGAAGAGAAAAGGGGGACAAGAACCBG $G G A A A G A G C A G G G G A A G A G G A A A A G A C C G A A A G A A A A G G G G G$
 $G G A G G A G G A C G G A G G A G A A G A A A A G A A G G A A G A C G A G G A A G A$ A GAAAGAAGGGGCCAGGAGGGGAAAAGAAAAGGGGGAACAAA
 ACGAAGAGCAGACACCAGGGACAGGAAAAAAGCCGGAAGGGG CAA $A \operatorname{A} G A A A C G G G G G G G G G G A A C C G G G G G G A A C C A C C G G G G G$ AAACGGAAAAAGAAAAAAGGCCGAAACCGGCAAGGGAGAAAG A A A A G G A $\mathcal{A} G G A G G G A A G G G G A G G G A A G G C C A A G G G A A G A A C C$ GAAGGAGGAAAGAGGAAGCCCCGAAGGGGAAAAAAACAAAAA GAAAGAGGGGATAGCGGAAGAAAAAAAGGGAAAGCAGAGCCC AACAGGAGAGAACAAAGGAAGGGGCAGAGACAGAAAAAAGGG G G G G A A A $\mathcal{A} G G A G A A G G G G G G A A A A G G G G G G G G G A G G G G A A G B$ AAAAGGGGAAGGAAAAGAAAAAAAAAAAGAAGAAAAAG GAAA A G GAGGACAGAAAAGGCCGGAGAAAGGGAACCAAACGGGGGA

A A A A A A G A A A G G GAGGAAAGTAGGGGAAGGAAGGGGGGAGAG GAAAAAAAGGAAAACCGAAGAGGGAAAGGAACAACCAAGGGG G G G G A A C A G G A GCCAGAGGAGAGGGAGAAGGGGAAGCCAAGA AAACCGAGAGAGACAGCAGAGAGGGACAACAGGAACACAGGA
 G $G A \operatorname{A} G \mathrm{G} G \mathrm{G} A A \mathrm{~A} G \mathrm{G} G A A A A A G G C C G G A A G G A A A A G G A A G G G G G G$ $A A G G A A G G G G G G A A G G A A A A G G G G A A G G A A A A A A A A A A G G G G$ GGCCCCCCAACCGGGGAAAAGGAACCAATTAAAAAAGGAGAA C C A A A A G G G G G G A A C C A A A A G G G G A A G G G G G G G G G G G G G G C C AAAAGGCCAAGGAAAAGGAAAAAAGGAACCAAGGAAAAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAAGG $G G A A A A G G A A G G G G G G G G A A C C G G A A A A G G A A A A G G A A A G C C$ A A G G G G G A C C C C G G G G G G A A A A G G G G A A T T G GAA $A$ A A G G G A A G G G GACCCAGGGAAGGGACAAACAGGCCAAAGGAAAGGAGGG GGAGCCGCGGACGGACAGAAAAAAAGGAAGGAGAGGCCAGGG AAGGAAAGAAGAGGAAAAGAAGAGGGAAGGAAGGAAAAACAA A A A A A A C C G G G G G G G G G GAGTAAGACA GAAAGAAA AA A A A GAA
 GAAAGGGAAGCAGGGACCAAGAGGAAGGCCGCGAGGCACAAA
 A A A A A GAA A G G G GAAAGGGGAAAAGGGGAGGGAGACAGAAGG G GAA A G G G A A G GCAGGAGGAGGAGAGGGCCCCAAGGGAAAAG
 A G G G A A C C A C G G A G G G G G G G A A G G A A G G A A A G A A A GA G A A G G C C G G A A G G A G A GAAAAGGGGCCCAGAAGCCCCAACCAAAAAA G GAA A G G GAAAAGAAAGGCGAGCAAAGAAAGGAAAAGGBACA AACCCCGGACAAGACAAAAAGAAGACAGGAGAGGGGTTGGGG A A A G A A A A A A G G G G G G G G A A A A G G G G G A A C G A A GAG GAC CA G G GAAAGAAGGGGCCAAAGAGAACCAAAATTAAGGAGGGCCAA A G G GCCGGGGGAAGAAGGACGGGGAAGGGGGGAAAAA
A G G A A G G A A G G A A C A G GAACCAAGGGGAGGAAAAGGGGGGG GGCCAAACAACCGGAGACCCCCGGGAGGAAGGGGAACAAAGA
 A A A G T T G G GA G G A A A A A A A A A A G G G G G G A A G G G G G GAA $\mathcal{A}$ G G A G G G G G G A G A T G G A A A A A A $A \operatorname{GGGGGACGGGGGGGGGGAAAAA} G G$ G GAACCGGAGGAAAGAGGATGGGGGGCCAGGCAACAGGGGGG AAAACCAAAAGACAGAGAGGGGGGGAAGGGGGGAAGAGAAAA AA $\operatorname{A} G \mathrm{G}$ GAACAAGAAGGAAAGGGGGGGGACAGAGAACAAGGGA A $G G G A A A A A G G G G G G G A A A G G G A G A C G G A G G A G A A A A A G G A A$ GAGAAACCAGGAAAAGGGAAAAGGCAGAGAGAACAAAAGAGG $G G A A C C G G A G A A G G G G A G A A G A A G G A A A G G A A A A G G A G G G G G$ GAAATTGAAGGAAAAATTGGGGAGGGGGGGGAAAAAAAAAGB TTCCGGAAAAGGAACCGGCAACGGGGGGCAGAAGGGGACAAA CAGGGAAGAAAGGAAAAAAAGGCCAGAAGGAAAAAAGAAAAA A A G G A A G G A A A A A A A A A A A A G G G A G G G GAA A A A A GAGGATA G A A A A A C G A A G A GAGGGCCAGAAGGGAAAGGATGGGGA GAA GA $A G C C G G G G G G G G G A G G G G A A G A A G G G A G A G G G A C A A G A A G A A$ C C G GAGAGAAACGGCGAGGGAGAGGGAGAAAAGGGGGGAAAT C GAAACAAGGCCAAAAGAGGAGAGGAAGCCACAGGGAAGGGG C C G G A A G G G G G G A A G G C C A G A A A GA A A A G GAGCCAA G G C C G G $A C C C A G G G A A G G A G A G A A G G C C A A A A A A G G G G G G A A G G A C A G$
 AACGGGAAGGGGCCAACCAAAAAAAGACCCCCAAGGGAAAAC G G G G G G G G A A G GCC GGCCACAAAAACAGGAAGCCAAAAAAA G
 A GAA $A$ A $A G G G A C C C G G G G C C A A A A G G A A G G A G G G A A C A C A A C$
 A A G A C A A A GAGGAAGGAAGAAACCAAGGGAGAAAAAAAGAAA AAAGAACCGGGAAGAAAGGAGGCAAAAGAAAAGAGAAAAACA

GAGAGAAATTCCGGAAGAGACAGAAGGAGGAGGGAATAGGGG GAAAAGGGGAAAAGGGAAAAAAAACCGGCCAACCAAAAGBAG A A G GAGGGCATTGAAGGAAAAAGGGGACAAGGAGAGGGAAAC GAGAGAGAGACCAAAACAAGGGAAGAGGAAAAGGAAGGAGAA GAGAAGCCAAGGAAACAAGACCACAAGGAAAAGGGGAAAAAA G G G GAAAGAAGAGAAAAACCGGAAAAAACCAAGGGGGGAGAA $A \subset A G G G A G C A G G G G A A A A G G G A G A A G A A G A A A G A C C A A G G G G$ G G G GAGCCGGGGGGGGCCAGGGAAAAGGAGGAAAGAAACCAG GATAACGGACGAGGAGAGGAGGAAGGGGAAAAGGAACCAGGA A GGGCCAAAGGGAGGGGAAAGAGAAAAACCCCAAGGAGAAAA G G G GAGAACCAAAAAAAAAAGAGAGAACAGACAAGAAGAAGA A A A A A A A A G G A A G GAAAACCGGAAGGGGAGAGGGAAAAAA G G G G A A A A C A A G G G G G GA $A \operatorname{GGGGGGAAGGAGGAGACCAAAGAGAA}$ G G A A A A A C G GCC G G G G G G C C G G A G G A A A G G A A G G A G A G G G G G AAGAGGAACCGGAGAGGAGGGGGGGGCCGAGGGGGAAAAGAA G GAA A A G G GAGGGGGGGAAGAAAGAAAGAACCAAAAAAGGGA GGCCCCGGAGACAGAAGAGAGAGGGAAAACGACCAAGGAAGA A G A A A A A G G G G G G GAGCCAGAAGAAAAGGAGAAAAAGAAAAA AAAACCAAGGATGGAGGAAAGCAGGGGGGGAAAAGAAAAAAG G G A A A A A G A C G GAA $A \operatorname{GGGGGGAACCGGCCGGGGAAAGAAGAAA}$ A A A A A A A A A A A A A GCCGGGGGGCCAAGGAAAGCCAAGAAAGA A A G GA $A$ A $\operatorname{GA} A \mathrm{~A}$ GAAAGAAAGAAGAGCCGGAAGGGAACAGAGAA CA $\operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A C \subset A A G G G A C C G G C C A C G A A A C A G A A G G G$ C C G G GAA $\operatorname{C} C A G G A G A C A G C C G G G G A G G A A A A A A G A G G G A G A G$ G GAAGGAAGGAAAGAAGGAACCGGGGAAGGAACCAAGAAAAA A A G GCCGGATGAACGGAAGAACACAACCGGAAGGAACCAGAG
 A GAAAA $A \operatorname{A} G \mathrm{G}$ GAAGGAAGGCCGGGAGGCAAAGGGGGAGGCCGG A A G GCCAA $C$ G $\operatorname{CA} A A A A G A G G A A G G G A A A G G G A G G G G G A G A G G G G$ AAGGGGAAAAGGAGGAGAAAGGGGAAAAGGAAGGGGGAAAAG G G GACCAGAAAGGAAGACGCGAAGGAGGCCAAAAAAAACGGC AAAAGGAAAAAAGGCCAAGGCCGGGAGAAAGGCCAAGGCAAC G GA $A$ A $\operatorname{A} A A G G A A G G G G G G A A G G C C A C G A G G G G G G G G G A G G G G$ G G G A G GAA $A \operatorname{GCC} G G A A A A A A G A G A G G G G G G G G A A G A A C A A A C$ GAAAGGAAAATAAAAGGGAGAAAAAAAAAGGGGACCAAAAGBG CAGGGAAAGAGACACAGGGGGGCCGCCCGGAAAAGAAAGGAA AAAAGGGGGGGGGAAAGGAAGGGAGAGAAGAGCCGAAAAAGA G G GAA A A A ACAACCGGAAGAGACCGGAAAAAAGGAGGGACGG A A G G A A A A A A G G G A A G A G G G A GAACCAGAAAAAGGGCAAAC C
 A GAGAAAGAACAAAGGGAGGAAGAGGGGAACCGGGGAGAGAA A G A A A GCCGACCACGGAGAGGGGGGGAAGGGGAAGGGBAACC AAGGGGAAAACCAAGGGGAAAACCAAAAAAAAAAAGGAGAAA A A A A A ACAAACCGGAAAAGGGGCAAGAGAGAAGAAGCAAAAC G G G A A G A A A A A ACCAAAACCAAGAAAGGAAACGAA G GA G G G G GA $A \operatorname{G} A A G G G G C C G G A G G G G G A G G G A G G G G G G G G G C A G G A A B A$ GACACCGGGCGGGAGGAAGAGGCCAGTTAAAAAAGCCCAAGG GAAGGGCCAACGAGCAAGAGAAAGAAAGGGAGGGAAAAAGCC AAAAACAGCCAAGGAAGAGGAAGGAAAAGGAAACAGAGAAGG A GAGAGCAAGAACCCCGGGGCCAAGGGGAGAGACGGAAAGAA G GAAAAAGACGGAAAGACGAAGGGAGAGCCAGGGAAAAAAAA A A A A A A G GAAGGAACCAGGGAGAGCCCCAGGAAATAAGAABAA GAGGGGGAGGGGAAGGAGGAGAGGAAGGGAGGGGCCAAAAAA GAGGGGCCAACCAGCCCGAAGGGAGGGGGGAAAGGGGGAGAA GAAAAAAAGGGGGGGAAAAAAAGGAAAGAACCAATTAAAACC ACAAAGGGGAGGCCGGAAAAAAAACGAACCGGGAACCCGGGG CAAACCAAAAAAGAAAAAGGGGCCAGGAGGCCCCCACCAGGG GAGAGGAACCGGAAAGAGGAAAGAAGAAGGAACCGGGGAGGA AAAAAAAAAGAGGACCAAAACCCCAAGGGGGGAAGGAAAACC

A A G A ATAAAACCAGAAAAAAGAAAGGAAGGCGGGAATAAA
 G GGGAGAAAAAAGGCCGGAAACCCAGGGGGCAGAGAAGAAAA A TAGAGCAGAAGGGGGAGGAGGAAGGAAGAAAAAGGGAGGGG A GACGGGGAAAGAAGGGAGAAGGAGGAGGGGGCCAAAGAGAA A G G GCA $\mathrm{C} G \mathrm{G}$ GAAAAACCGGGAAGAGAAAAAGAAGGGGGAAAAA GAAA A GAAAGAAAGGGGGAAGAGGGGGGCCACAAABAAGGGG AAAATACCGAAAACGGGGGGAGGGAAAGACAGGGGAAACCGG
 $C G C A G G A C A A C C G G A A G G G A A G G A G A G A G G C A A A G A C C G G C C$ G G GAA $A \operatorname{GA} A A G G G G C C A G G G A A A A C A A G A A A G A G A G A A A G C C$ GAAAGGAAGGGGGGAGGGGAAAAAGGAAGGAACCGGGAAGAA $A C G A A G A G A A A A A G A G A G C C G G A A G A A G A C G G A C A G A G G G G G$ A A G G G G A G A A A C G G G G A G G GA GAGAGGAGAAAGATTAAACA $A$ AA $A G A A G G G A G G C C G G A A G G G G A G G A A A A A G G A A G A G G C C B A$ AA $\operatorname{A} A A G G G A G G G G G A A G G A A G G A A A A A A A A C G G G A G A C A G A A$ G G G GCCGGAGAAGGCCGGAAGGAAAGGAACGAGGAACAAA GA AACCGGGAAGCCAGGGGGAACAGAGGAACAAAGGGGGGAGAA $C C G G A A A A G G A A C A A G G G A A G G G G A A A C G A G G G A A A A G A G A A$ G G G A G G A G G G G G A A A G G A G A A G G G A A A A C C G G A A G G A A G G G G GAAAAAGAAAGGGGGGAAAGAAAAAAAGGGAGGGAGGGACCA A GAA A GAACCCCAAGGACGGGGGGGGGGGGAAGAAAGGTTAG A A A G A A A G G GCCGGAAAGCCAAGAAAAGCAAAAGGAAGAGGG AAAAAACCCCGGGGGGAGCAAACCCCAAGGGAGGAAAAGGGG AAAGAGAAAAGGCCGGAAGGGACCCCGAGAGGCCAGACAGAA A G GA $A \operatorname{GA} A A A G G G A C A A A A A G G G G G G A C G G G G G G G G A A G G A G$ G GAGAGGAAAAAAAAAGGGGGGACAGGACCAGAAAAGGGGGG

 G GAAAA A $A \operatorname{AGGGGGGGGAAAAAAGGAAAAAAGGGGACG}$
$G C C G A A A A G G A A G C C G A A A A A G G A A G G A A G A C C C C A A C A A A$ G GAACCAAAGGGGGAAAAACGGGGAGAAAAAAGAGAGGAGCC G GAAAGGAGACCGGGGAACCAAGGAAAAGGAAAAGACCGAGG ACGAAGAAGGCCGACCAAAGAAAGGAAAAAAAGAGGAAAAGA A GAA A A GACAAAAAAGGAGGAAAAGGGGACAAGGGAAA GA GA A GAGAAACCGGGGCCAAGGAAGGCCAAAAACGAGGGGAAAGAA G GAGGAAAAAGGGAGGGGAAAAAAAAAAAACCGGAAAAGGGG AA $A G C C A A G G A A A A G G G G A A G G A A A A G A A G A G A G A A G G A A A A$ A A G GAA A A G G A A C G A G G A GAGGGAGAAAAAGGGGAAAA G GAA G GAGGGGGGGAAGGGAAGGGCCGAGAAGAAAAACAAAAGGCA TAAGAAAGAGGGGGAAAACAGAGGAGAAAAAAGGAACAAAAG G G G GA $\operatorname{G} G \mathrm{G}$ GAAAAGGGGAAGGAAAAAAAAAACCGGAACCAAAA $C C A A A A C A A A A G G G G G A A A A G G A A A A G G A G A G A G A A A G A G G A$ G GAGAGAGAAGGGACCACGGGGAAAAAGAGAAAGGGGGCAAA $A G G G A A A A G G G G G G A A C C G G A G A G G G A G A A G G C C G G A A G A G A$ A A A A A A G G A A A A G GAA $A \operatorname{G} G A A A G G A G A C A G G G G A A A G A G A G A A$ $G G A A A A C C A A A A A A G G G G G G G G T A G A G G G G A A A A G G G G A A A A$ AA $\operatorname{A} G A A G G G G G G G A G G A A G G A A G G A A A A C C A A C C G G G G G A A G$ ACAGGGGGAGGAGAGGGGAAAAAAGGAGCAGAGCAAGGAGAA $A A G G G G A A G A G G G G G A C C A A G G G G G G A A G G G A A G G G G A A G G G$ A GAAAAAGCCAAGAGGAGAGACAGGGAGAGGAGGAAAAAAAC $A C A C A G G G G G A G A G A G G A G G C C A G G G G G C C G G G G A G G G A A A A$
 G G GAGGGGGGAGAGCAGAACCCGAAGAGGGGAAAAACCAGAG G G G GCCACCAAAAAAGGACAGGACAAGAGGGGAAAAGGAGAG C C G G G G G G A G A A C C G G C A A A C C G G G G C C G A A A A A G G G G T T G G G G G A G GCCGGGGCCAC GGAAAAAGCCAAAAGAGACCAGGGGG
 AAAAGGCCAAAAGGGAGGGGAGAAAAAAGGGAACGAAGAGGG

A G GAA A A C GAGGAAGGGGAAGGGGGACCAAGGGGGGAAAAGG G G A A C CACAGGGGAGCAGGGGGAGAAGACCGGCCAGGAAAAA G G A A C C C C A G C C C C G G A G A A G G G G G GCC G GCCAAAA G G G G A C AACCAAGAAGGGGACCGGGGAAGAAAGAACAGGAGACCAGCAA AC G G G GAAAAGGGGAAGGGGCAAGAAGGGAAAAGGGGAGAAA G G A A A G A G A A G G G G G A A T G G G G G G A A G A A A G G G G G G A A A A $G$ G G G A G A A A A A G A A A A G GCC GAGGAACCAACCGGGGGGAAAA GA CAAGGGAAAAGGGGAGGGAAAAAGAGGAGGAACAGGAGAAAG A A A A A A A G G G A C A G G G A A A G G G A T A G A C A G G A C C G A A G G G G G A GAGGAGAGGGGGGAAAGAGGAGGGACAGGAAGAAGAGACGG A GAGGGGGAAAGCACCAAAAAAGCCAAGGGCCAACCGAGGCC GAGGCCGGCCAAAAACGAGGCCCAGGAGAAGGGGAAGAGGGG C C TTGGAAGGAAAACAAGAAAGGGACAAGGAAAGCCAAAAGG A A C C G G G G A A A A A A GAGGAAAAGGGAAGAAAGAGAGCAGGAG A A A A G GAGAAGAAGCCAGGGAACCGAAGAAGGAAAAAAAAAA A G GAACGCGCAGGACCACAGAGAGAAGGAGGGGGGGAAAAAAA C C G GA GA G A A A A A GACAGAACCGGAAGGGAAACCAAGGGGAG A A G G G G G A G G A A G G G G A CAAAAGGGGGAGAGAGA GAGAAAAG A G G A G G A G A A G A A C A A G G A A G G G G A A A G G G G G A G A A A A G G C C CAGGGAGGAGAACAGGAAAAGAAAGGAAGGGAAACCGBCABG G G G GAA A A GAAAGGCCAGAAAGAGGGGAAGAAAAA GTA GA G G A A
 G GCAAGCAAGAAGAGAAAGGGGAAAGAACAGGAGAAGAAAAA
 G G A A A A A A G G A A A A A G G G G GAGCCAGGGAAGGGACCGAAGAA ACAGGGGACAGAGAAGAGGGCAAGAGAGGGAAAAGAAACAAA G GAAAAGGCCGGGAGAGAGGGAGAGGGAGAGGGGGGCAAAAA G G G G A A A A A A G A G G GAGGGGAAAAACAAGAGGGGGAAAAAAA G G G G G G G G A A A CACAGCCGGCAGGGAGAAGCCGGACAAAGAG A G G G G GCCGGAGAAGGAGAAGGAAAAGGGGGGAAAGAAAAAA G A G G G G G G G G G G G G C A A G G G A G A G A G G A A G G A G G G G A A G A $G \mathcal{G}$ G G GACAGAAACAGGGAGGGGAAGGAAAGAGACAAAGGAAAAG A GAAAGCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGAAAAA A A A A G A A A G G A G G G GAGGAGAAAAAACCCAGAAAAAAA G AAAG A GAAGGGGAGGGAAGACCAAACAAAAAAGAAAGGCCAACAAA GAAAA $A$ A A A G GAGGGCCAAAGAGCCGGGGGGGGAGAAGAAGAG AAAGCCGCGAGAAAAGAAAGAACAGAAAGGAGGAGAGAGABA GAGGAAGGAAAGGGACGCGGAAAAGGGACAAAGGTAAGAAAG GAGAAGAGCCGGAAGGCCGGCCGGAAAAGAAAAAAAAAAGAC GAA A G GAAA A ACA GAAAAGGCCAAAAAGGGGAGGGAGGGGGA GAGGGGACGGGAGGGGAGAGAGGGGAAGCCAAGAAGACGGGG G G G G G G G G G G C A A G A C A G A A A G A GCCGGGGGGAGACCCACCC AAGGCCACACGAAAAACGCAAAAAAAAAAAAAGGCAAGGGAG C CAAACGGCCGAAAGGAAAGCCGGGAGGGAAGCCAGAAGGAC A A G G G A A G GAAA $A \operatorname{AGCCA} A A A G A G A A A A A G G A A A A A A G A A G G G$ A A A A G A A A C C G G G G C C G G G G A A A A A A $\mathcal{A} G G G G G G G G G G A A G A G$ A GAG $\operatorname{A} G \mathrm{G} G \mathrm{G}$ A GAACAAAGAAGAAGAAGAGGGAAGAGAAAAGAA G G G GAA A ACCAAAAAAGGAAGAAGGGGGGGCCGGAAACAATA $C \subset A G G G T A A A G G G A A A G G G G G G G G G G A A A A A A A A C C G A A A G G$ G G G A T TCCAGAAAGAAAAGACCCCAAAAGGGGGGAGCACAAC A G GAAACCAACCAAGGGGAAGGGGTTACGAGGAAGGCCAAGG A A A A A A A A G G G G G GC C G GAGGAAACAA AA GAGGGGGGGGGCA GAACGGCCAGGAAGAGACGGGGGAGGAACCAGAACAGGAAGG G G G G G G G GAAGGGGGAAGGCACGAGGGGAAAAAAAGAAGAGA
 G G A A A A G A G G G G G G A T A G C C G G G G G G A A G A A A G G G G G G C C C A
 G G G A A A G G A A G A G G A A A G G G C G G G G A A A T T A G G GAA C C G A G A G G GAAAAAAAGGTAACAAGAGAGGAAGGGGAAAACCGGGGAC

A G G G G GATCAAAAAGGAGCAAACAAGGCAAAAAGGACAAGA ATAAAGGGGAATAAACGGACAAAAGGGGGGAAGGAGAAAA GA A A G G G G G G G GAAAAAAAAAAGAGAACACAAGAAGGAGAGAAAA A GCCGGGGCCGGGGGAAAGAGGAACCGGAAGGGGAAGGAACA G GAAAA A GAAAAGGGGGGGAAGACGGAGAGGGGGAAGGAAGA GAAA A G G G A GCCGGAAGGGGCCAGAAACGGGGAAGAAGGGGG GAAAGGGGAAGGGAAGAAGGGGAAGGGGAAGGAACCAGGGGG GAAAAGCAAACAAAGAGGGGAAGGCCGGAAGGAAGGAAGGAG G GAGAGGGAGAAAAAGAAGGAGGGAGGGCCGGCCAGAACAAG AAGGCCCACACCGGGGAGAGAGGGCCAAGGCCGGGGGGGGGG G GAAAAGGGGAAGGAAACCCCACAAGGGAAGGGGAACAGACC GAAAAACCGGAAAAGGGGCCGGAGGAAGAAAAGGAAGAAAAA
 A A A G GAGAACGGAAAAGGAAAAGGGGGAGGACAAAAGGGGGG G G G GAAAAGGGAAAGGAAACACGGGGAAAAGAGGAAAAGGGG AAACGGGACCAACCGGGAACCCAAGAGAAAGGAAAAAAAAGB A A A A A A A A G G G A A A G GAGGAAGAAGGGAAAAGAAAAACAAAA $G G C C A A A A G G G G A A G G G A G A A G G G G G A A G G A G A C A A G G C A A A$ $C C G G C A A C A A G A A G G A G G G G A G A G G G C C G G G G A A G G G G G G C C$ G G A A A A G G G G A GA $A \operatorname{GA} A G G A A A G A A A G G G A A A A A A A A G A A G G G$ AGAAGGGAAAGGGGGGAGAGACGGGGACAGGGAAAGAAAGAG AAAGGGGGAGCCGGAAAAGGGGAAGGGGAACCAAAGGAGGAC G GAA A G GAGGAAGAAGAAGGGACCGGAAAAAAAAAGCCAGAA A A G GCAGAAGGGGGGGGGAAAGGGAAGGCAGGACAGGAAAGG A GAA $A \operatorname{GA} A \mathrm{G} A \mathrm{~A} A \mathrm{~A} G A A A G G A A A C A G C C A G C C A A A A G G A A G G A C$ G GAAAAAAGGGGCGAAGGAAGGAGGGGGGGAGGAAAGGGGGG AAAAGAGGGGAACCAAGGAAGGAGGGGGGGGGGGAGGAAAGA G G G G A A A G GAA $A \operatorname{GA} A A A A A A A A G G A A A A A A G A G G G G A G G A A G G$


A G G G G A A A A C A GAAAAAGAAAGAAGGGACGACCAGBAGAAA AAACAAAGGGAAAGGCAACAAGGAGAGACCGGGAAAAGAGAA A G GAGGCCGGAAAGGAGGAGAGAGGGGGGACAAAAAAAGGGA A A G GAGGGGGAAAGCAAGGAAAAGGGAAAAAAGGGAAAGGCC G GAA $A \operatorname{GGG} G A C C \subset A C A A G G C A A G G G A A A A A C A G G A G G A A G G G G$ GAAAAAGGAGAAACGAAGAGGGAAAACCGGGGGGAAAACCBG AAGGGGAAAACCGGGGAAAAAAGGAAAAAAAAGGGGAA GAAA $C C G G G G G G A A A A A A A A G G A A A A A A G G G G G A A A G G T T G G G G A G$ G G G G GAGGGGAACCCGAAGGGGAGAAGAAGAAAAGGAACAAA G G G GCCAACCAAGAGGGGAGAGACAGAACCCCAGAAGAAAGG $C C G G A G A A A G A G A A A G A T A A G G A A A G G A G G G A G A G G G G G G T T$
 AAGGAAAGAAAGGGAGAGAGAAAAGGGGACCCAAGGAGAGAAA G GCCGGAGGGAGAGCCAGCCGGGGGGGGAAGGAAAAGGAGAA $A C G G A A C C A A G G A C G G C C G A C C G G G G G A A A G G A G A A A G G A G A$ A GAGAGAACCGGAGAGAAAGAAAAGGAGAGAAGAAAAAACBG A G A A A A C A A G G GA $A \operatorname{GG} A G A G G G G A G A A G A G G A G G G G C A T A A G$ AGGGCAAGCAGGCCAAGAAGAAGGAAAAACGGAGAAAGGGAG G G G GCAAGGAAAAAAAAAGGGGAAAAACAAGGAGAGCAGACC $A G G G G G G G C C G A A G G C G A A G G A A A G G A A C C A A G G A G A G A A A G$ $A G C C A A G G G G G G A A G G G G A A A G G G G G A A G G G G G G G G G A A A A A$ A A A A A A A A G GAGA GAGAGAAAGAGGGAACCAGAAGAGACCAA A A $\mathcal{A} G A A G G G G G G G G A A A A G G G G G G G G G G G G G G G G A A G A A G G G$ GGCCAAAAGGGGAGAAAAAAGGGAGAAAACCCGGCAAAAAGB G GAA A GCAAGGAGCGGCAAAGGAAAGGGACAACAAAGGGGAG A GAGACAGCCAGGGCAGGGAAAAGGGGAAAGGGGCCAATTCC A GAA A G G G GAAAAAAAGGAAAAAATTAAAAGGGGGGGGAACC $T \mathrm{~T} C \mathrm{C} G \mathrm{G} G A G G A G G A A G A G G A G A A A C C G A G A G A A A A G A G G G A A$ AAAAAAGGGGAAAAGGAAACAGGAAGAGGGCCGAGGGGGGGG

G GAAAGGAGGCACAGGGGAAGGGAAGAGAGAAGAGAACCAAA C C C C G GAGGGGGGGAAAAAACCAGAAAAGGAACAGBAAGAAG A A GAGAGAGGAGGGGGAGAAAAAAAGACAGGAGGGGGAAAAA A A A A GACCCAAGAAAGAAAGGGAGCAAAAAAGGGCCAACAAA ACAAGGGGAAAACCCCAAGGGGAAAAAAGAAGAAAGAGAAA G A A G G G A A A T T G A A A G G A A G G A A A C G G G G G G A A A G G G G A G G A G GAA A A G GAGGGGGGAAAAAAGGAAGGAGGGAACCAAAGAGAG AAAAGGAAAAAGGAAAGAGAGAGGGGAGACAGGAGAAACCGG C C G A G A A G G GAACCAAGGCCAAAATTAAGACAGGAAGGAAAG G GAGGGGAGGAGGGGGCCAGAAGAGGACAAACACAAGGGGGG G G G GAAAAAAGAGGGCAAAAAAAAGGGAAAAAAAGGGAAAAA G GAAGACCAACCAAGGAAGGGGCAAGGGGGAAAAAGAAAAAA G G G A A GAA $A \operatorname{GG} \operatorname{A} A \mathrm{~A}$ GAGAACCAGGACGAAGGAAAAAGGGAAGA CCGAGGGGACAAAGCAGACCGGAAGAAAAACGCGGGAAAAAG A A GAGAGAAGACAAGGAAGGGAAGGGCCGGGAAAAGAAAGAA G GAA $A \operatorname{GAA} G G A G A A A G G G A A A A G A G G G G A A G G G G A A G A G G G G$ G GAAAAGACAAGAGGGAAGGAAAACAGAACAGAGGGAAGGGG AACCAAGGGGAAAGAAGGAAAAGAGGCCGGAAAAAACGGGCC AAGAGGAAGGCCCACCACAAGAGGAGGGAAGAGGAGAAAGGG CACCGGCAAGGGGGAAAAAAGGAAGGAAAAGGCCAGGGAAGAG G G GAGGGGAAAGGAGAGAGGGGGGGGAAAGGGTTAAAAACAC A GACGGGGAGACAAGAAAAAAGGAGGAAAACAGAGGAAGGAA A GAGAGCGAAAGAGGAAGGGGGAGAAGGGAAGGGACAAGCBG AGAGAACCAAGGCCAAAACAAGAAGGAAAAAAAGGGGAGAAG G G GAGGGGACAAAAAGGGAGCAAGAGAAAAACGGCCCCCCGG G G G G G G G G G GAGGAGAGGAGAAGGAAGGAACCAAGGAACAAA G GAAACAGAAAAGGAAAAGGTTAAAAAAGGGGGGAGGGGGGG GAAGAAGGAAACGGGGAGGAAGAGAAGGAGAAGATTACAAGG A G G A A C G A A CAAAGGGAAAGGGCCGAAACCGAGGACCCAGAG CAGGGAGGGGGAGGAGCCAAGGAAAGGAGGGACACCGGACAA A A A A G G G G GAAA $A \operatorname{A} G A G A G G G A A G A G A A A A G C C C A G G A A A A G G$ G GAAGGAAAGAGAGAACGACAAAGGGAGGGAGACCCCCAC GA G G G GCCGGAAGGCCAAAAAAAGGGATGGGGAAGGAGGACAAC $G G C C G G A A C C G G A A G G G G A A G G G G G G G A A G A A A G A G G G A G G G$ A GACCCGGGGAAGGAGAGGGAACCCAAGGGGGAAAACCAGAA A G G GC C G G A GAAAAAC GAC CAAACAGGGGGGCGAGGCC G GA A A GAGAGGGAGAAGGAAGAAAGGGGCAAGGGAAACAAGGCCGG G GAA $A \operatorname{GAA} A A C A G G G A G A G G G A G A G G T T A C G G G G A C C C A G A A$ A G G GAAAAGGGGGGCCAAAAGGAAGAAAAGCGGAGGGAGGGG
 AA $A G A A A A G G G G G G A A A A G G A A G G G G G G G G A A A A A A A A G G G G$ A A G G G G G G A A A A G GAAAAGGCCAAAAGGGGCCAAAAAAAACC A A G G G GAAAAAAGGGGGGAAAAAAAAGGAAGGAAGGGGGGAA $A A C C A A G G G G A A G G A A C C G G A A G G G G G G A A G G C C A A G G G G A A$ $A A C C A G G A A G G G A G A A G G A A A A A G G A A A G G A C A A G G G G G G A A$ A A A G A G G A A A G G G G G G G GAGGAACGGAACAGAGAG GATAAAA AAGGGGGGACACAGCAAAAAGGAAAAGAAGAAGGAAAGAAGA GAAGAGAAAAAACAAGAAAAAACCAAAAGGCCGAAAGAAAGA $C \subset C A C C G G G G G G G G C G G G A A A A A C G G G G G G A A A C G A A A A C A A$
 G GACGAGGGAAGGAGAAGCAAGGGGGGGGAGGAAAAAAGGCC A A GAA A G G GAAAAAAGGAACCGGGAGGAAGGAAGGAAAAAGCC $C \subset G G A A A A G G A A A A G G G G C A C A A A C C G G G G C C A G G A A G G G G A$ G GAAGGGGGAGGGGGGAACAAAAGGGGAGAGAAGAGAAAGCC G G G G A A GACC G G G G C C G GAGAC GAGCAAAGGGGGGGGGAA GA G G G GAAAAAAGGAAAAAAACGGAGGAAGAGGGAAA GAGAGBA $G G A G A A C C G A A G G G G G A A G G G G A G G G G A G G G G G G A A G A A A G B$ A A A A GAG $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A C A G G A G G A A A A G A G G G A A G A G A A G A G A A$ G G GAGGAGGGAGAGAGGGGGAAAAAAAAGGCCGGAGAAAAGA

A G A A G A G G G G G A A A A G G GCCGGGGAAAACCGGAAGGAAAGCC A A A A G G A A G G A A G G A A G G G G A A A G A A A A A A $\mathcal{A} A A A A A G G G G G G G$ G G A A A G GACCA $\mathcal{A} G G C A G A G G G A T A G G A G G G G A G G G G G G G G G G$ ACAAAAGGGGAGCCAAAACCGGAAGGAAAAAAAAGGGGCCGG G G G GAAAAAAGGAGCACCGGAAGGAAGGGGGGGGGGCAAAAG C C G G G G G G A G G G A A G A A A G G A A A A G G G G G G A A G A G A G G G G A C A GCCAAAGAGGAGGAAGGGGCACCAACCAAAAGGGGGBAAAA AAGGAAGGTTAAAACCAACCAAGGGGAAAAGGAAGGGGGGGG G GAAAACCGGGGAAAAGGAACCAAGGAAGGAAGGGGGGCAAA G GAAAAAAGGGGAAGGTTAAAAGGAAAAAATTGGAGGGAGAA A G A A A GC C G G G G A G G G G G G G G G G G G G G A A A A A A A G G C C G G T T
 A A G G A A A A A A A A G G C C A A G G A A A A G G G G A GTTAAAACAAA G G A A G G G G G G G G A A A A G G A G G G A A A A A A A A C C G G A G C C G G G G A A GACCGGAGAAAAAAAGGGGAGGGAACGGACGGAAAAGAAAAG
 A A C G G GAA $A \operatorname{G} A A A A T X C A A G G G G G G A C C G G A A A A A A C A G G G G$ G GAG A GAGGGGGGAACAAAAAACCAAGGAAGAAGGGAAAGCC A A G G A A A C G G CA $A G G A A G A G G G G G G G G G A A G A G G A G A G G G G A$ A GAA A GAAAACCCCGGGAAAGGAAAGCAAAGGAACCAAATAG G GAGGACAGAGAAGCCGGGGCCAAGAAAGAAGAGCAAAAAGA A GAGAGGGAAAGGGGGAGGAGGGGCCAAAGAAAAGACCAGCA A A A G A G G G GA G A A A G A G A A GAA $A \operatorname{GGGAAGGGAACCACAAAGGG}$ G G G A C A A G G G A GAAAA A G G G G G G A A G GAAA ACC G GAAAAA A A A
 G GAGGGAAAAAAAAAAAACCAACAGGGAGAGGGGAGAAGAAA A GAA $A$ A A G G G G GA GAACCAAGGAAGAAGAGAGAGGGGGAGAA G G G G A A A A G G A A A A C CA $A \operatorname{GGAA} A G G G G G A A A A G G G G G G A A G G$ AAAGACGAAAGAGAGAGGCCAGGAAAGGGAAACAAAAGACCA G G G A GCACAAAGACGGGGGGCCCAAGGAAGACGGCGC
A A A G A G G G A A A A G G G G G A G A C A G G G G A G G C C G A G A G G G G A C A GAGAGCCGGAAGGGGGGGGGAGGAAGGAGAGGAGGAAAAGA A A C C A A G G G A G G G G G G A A G G G G G G G G A G G A A G A A G G A A G G A A A A G G C C A A $\mathcal{A} G G G G G G G G G A A A A G G A A G G A A G G C C A A G A A A G G$ G G G G G GCCAAAGAAGACAAAAAAAGGAAAAGGAACAACAGGG A A G G A A G A G G A GCAAA G G A A CAA A A A G G GACCGAGGGGA GA A G GAAGGAGACGAGGAAGGAAGGAAAAAAGGGGCCAAAAAAAA G G G GAA A GCAA GAAGGCCGGAAGGGAGGAAAAAAGGGAGAAG A G A G G G G G A A G G G G A A A G A A A G G G G G GAAA A A G GAAAAC C TA GACCAAACAAGGAAGGCCAAAGAGAGAGGGGGGGCAGGAGAG
 A G A G G A G G G G A G A G A A A A G G G G A C G A G A A A C A A G G G A A G G A G $C \subset A G A G G G C G A A G G G G A A G G G G A G G A G A G A G G G A G G A G A G A A$ A G G A A G G A A C A GAGAAGGAGGGGAGGACAAAACCACGGAGAA
 G G A A A G GAA $A \operatorname{GGGGGAACCGAAAGAGGGGAAGAAAACACAAGG}$ A GAGACGGGAAAGGGGAGGACCGGGAAGGGGGGGAAGGAAGAG CACCGGCAGGGAACAGGGGGGGAGAGGGAGAAGGGGAGAAAG
 GA $A \operatorname{GGG} \operatorname{GA} A G G G G A G G G A A G A A A G G A G G A A G G A A A A G G A A G B A$ CATAAGGGGAAAACCCGGAAAACACCAAAAGGGGAAAGGAGA
 G G A A A A C C A A A A G A C C G G A C G G A A G G A A C CAA G GAA G G G G C A AAGAAAAAGGAAACAGGAGAGGGGCCAAACGGAAGGGAGAAG ACGGAAGGAAAGAACCAAAAAAAGAAAAGGGGGGAAAAGGTT G G A A C C A A A G A A A A A A A A A A A C GAGGGAGGAAAAAC GA G G G A
 A A G A A A A A G A A A GAGGCCAAGAGGGAGAAACCGGAAGGAAAA $A C G G G G G G A A A A A T G G A G A C C A G G G G C A A A A A C C G G A A A G A A$

A A CA G A A A A A A A A G CAGAAAGAGAAGAGGGAGACAGGGATTA GAAAAGAGCCGGCAAGAGGGAAATGACCGGAAAGGGGGAGAA AAAAGGAAGGAACCGAAGCCAAGGACGAAGAAAAGGGCAAAG GGGAGGAAACGAAGGGAAGGAAGAGGAAAGAGAAGGAAGGGG AAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGAAA A GAGCCACGGAAGGGAAGAACCGGAAGAAAAAGGAAAAAAGG A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G GAAAA G G G G AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGGAAAA A A G G A A G G A A A A G G A A G G A A C C G GAAAAC CAA G G G G G GAAAA A G G G GAAAAGGAAGGGGAAGGAAGGGGAAGGGGGGAAGAAAAA AAAAGGAAGGAACCGGGGGGGGAAAAAAGGAAGGAAAAGGAA G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG $C \subset C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C A A A G G A A G B$ AA G GAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAACC G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGBAACAC
 AACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG $G G A A G G A A G G A A A A G G C C A A A A C C A A A A C C T T G G G A A A A A A$ $C \subset G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C C A A G G$ $C \subset G G G G G G A A A A G G A A C C A A G G A A G G G G A A G G G G A A G G C C G G$ A A G G G G G G A A G G G G G G G G G G C C G G G G G G C C A A A A $\mathcal{A} G G G G G G G$ A A A A A A A A A A A ATTAAGGGGAAGGCCAATTAAAAAAAACCAA A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAAGGAACCGG G G G GAATTGGAAAAGGCCCCCCAAAAAAAATTAAAAGGAATT AAAAAACCAAAAAAAAGGGGAAGGGGGACAAGAGAGAAGAAG AAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCAGAA AAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAAGA A G A A A A G A GACAAATAAAAAGAGGAAAAAAAACCAAAGAGAA A GAACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGGGA
 G G G GACGGAAGGAAAAAAGCGGGGAGCCCCAAGGGACCGGAG G GAACCC $C$ CAGGCAAGGAGAGGAAAGGGGGGAGGGGGGAGGGG AAAACAAACCGAACAGAGCAGAAGGATTGAGACAAAGBAGAC A G G G G GCCAAAGGGAGGGAAGAAAAGAACAGGAAAAGGAGAA G GAAAAGGACAGGAAAGGAAGGGAAAAGAAAAAGAGAAGGGG $C C A G A A A G G A G A A G G G A A G G A A G A G G C C C A G G A A A G A A G G G G$ A A GAGAAGAAGGAGGGCCAAAGGGGAGGGAGGGAGGGGAAGA

 AAGGAAAGGACCGAAAATGAGGGGAAAAAAAAAGACGGAGAA A A G G G GAACGCACCGGGGCCGGGGGGAAAGGAGAGGGACCGG G GAACAAAAGAAAAGAAACAGAAGGAAGGGCACAAAAGAACC G G T T A C G G A GCCGGAACCGGAAGGGGCCGAAGCCGGAAGGAA ACCAGGAACCAAAAGGAGAGGGGAGAATCCGGGGAAAAAAAA G A A A T A A G G G A A A A G G G G G G A A A A A A A A A A C CAA G G G GAAAA G G G GAACCAACCGGGGAAGGAAGGAAGGAACCCCAAGGAAAA AAGGAAAAGGGGGGAAGGAAGGAAGGAAGGAAGGAAGAAAGG AACCGGGGGGAAAACCAAAAGGAAAACCAAAACCGGGGGGAA $A A C C A A G G G G A A A A A G C A A C C A G G G A G G A G C G G A G A G A A G G A$ GAGGGGGGGCGGAAAAGGAAGGAGACAGGCAGGAGGGAAGAA G GAAAAAAGGAAGAGAGGGGAAAAGGCAAGAGGGAAAA GAAA
 G GAAGGCAGAAGAGGGAAGGCCAGCAAGGAGGAGGGCCCCGG GAAAGGGGAACCGGAAAGCCAAGGAAACAGGGAAGGGGAABA G G G GAGAGAAAAGGAAGACCAAGGGACCGGGAGGCCACAGAA $C C G A A G C A A A A G A C A G C C A A G G A A G G G G A C G A G A G A G G A A G A$ ACAAGGGGAGAAAAAAAGGGGGGGAAAAAAGGCAGAAA GAAA AAGGAAGGAAAAGGAAGGAAAAAAGGGGCCGAGGAAAAGGAA

CACCCCTTCCCCCCGAGGGGGAGGAAGAAGGAAGGGACAAAG G GCCGGAAGAGGGGGGCCAAAGGGAGAAGGCCAAGGAAAGCA GAAGAAGGGGCCAAAAAAAAGGAAAAAAGGAAGATTAAAGGG G GAA A A GAGGAGAAGGAACAGGAAAAGAAGAGACAAGAGAAA $C \subset G G G G C A G A G G G A A A G G G G G G G G G G G A G A C A G G A A A A G A A A$ G GACGGGGGGGAGGGGCCAGGGGAAGAAAGAACCGACAAAAG G G G GCAAGGAAGGAAAGAAGGAAGCCAGGGGGCCCAAAGAAG GAAGGGAAGGGGAGAAAGGGGGGGAAAAAAAGAAAAGAAAAA
 G GAAGAAGAGGAACGGGGGGAAAAAAGGGAGGCCAGAGAAAG A GCCAGAGGAAAAAAACAGGAGAAAAGGTAAAGAAGAAAAGA CAAAACGGAGGAGAGAAGGGAAAAGAAGGGGGAAAAAAAGAA $A \subset A A G G G G G G A A A G G A C A A G G A G G C A A A C G A A A G A G A G A G A A$ GGGGCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAGGAGGA A GAGAGCGGGGGGGGGGGAGAGGGAAAAAAAAGGAACCGGGG A GAAGCAGAGAGGCGGAAAAAAAGAAGGAAAGAAAAGBAAAA
 GAGAAAAGAAAAGGAGAGGAGGAACCGAAAAGAGAGAGAGAG GAGGAACCGGGGGGGGAAAAAGGGCCGGAGAGAAGGGGAAGA $G G C C A A A A A A G G G G A G G G A A G G G G G G A G G G G A G A G A A A A A G B$ AAAGGGAGAGGAGGGGGGGGAGGAGGAGATACAGGGAAGAAA G GAAAAAGAAGGGGGGGGAGAAACAGAACCAAAAAAAAAAGG AAAGAAGGACCAGAGGAACCACGACATTACGGCCGGGGAAGA $G G A A A A G G G G G G A A A A A A A A A A G G G G G G G G C C G A A A G A A G A A$ AACCAACCGGGGAAGACAAAAAGGAAAAGGAAGGAAAAGAAA
 AAAACCAAAAAAAGCCGAAAAACCAGGACCACAAGAGGGGAG AACCAAAAGAAACAAAGAAGAGAAGAAAGGAAGGAAGAAGAC AAGGGGCCCCAAAAAAGGAGGGAAGGGGAAGGAGGAAAAAAG G GCCGGGAGAAAAGGGAGAGGAGGGAGGAGCCAAGAG
G G G A A A A A A G G G G A A G G G GCCAAGGAAGGGATAACAGAGGG AAGAGGGGAAGAGGAAAAAAAGCCAGAGGGAAGACCGGCAGAA G G G GAA A A G G G GAGGATTCCGAAGGAAGGAATGAAAGAAACC A A A A A A G A A G G A G A A G G G G G A A G G A G G A A GAA A A A A G A A G A G AAAAGGAGCCAAGACCGAAAGGGGGAAGCCAGAAAAACAGEC G G GACAGGCAGAAACCAAAAAAAAGGGGAGGAACGAGCAGCC AAACCCACGGCAAGACGAGGAGAGAGAAGAACCCGACAAGAG A GACAAAAAAAGAGGAAGGGGCAACGAGTTAGAAAGCCAAGAG A G G GAGGAAGCCAGAAAAAGGGGGAGAAGGGGAGAGCCAAAC A G A A G A G G G G A A G G A A A GAATXGGAAAAGGAA G G G G G G G C C A G G GAAAGGCAAAGGGAGGGGGAACCCCGAAGGAAGGAAGACGG C CA $A \operatorname{GGA} C G G A A C A A G G A A A A A G G G A A A A C A A A G A A G G G G G G$ ACAGGGGGAGAGGGGGAGGAGGGGGGGAGCGGGGAAAAGAAA
 A A GAGGGGGGCCAGGAGGCCCCAGCCCCGGAGGGCCGGGGCA G G A A G G A A A A A A G G G G G GAA $A \operatorname{AGCCGGAAAGGAGGGAAAAAAG}$ AGGAACGGAGCCGGAAGGAAGGGGACAAAGAAAAACAAGGCC CCGACAAAGGAAGAGGCCAGGGGGGAGACCAGGAGGGAAAAA $A G C C A G A A G A A A G G G A A G A G C C G G G G A A A G A A A A A G G G A A G G$ AAAGAACCGGAGAAGAAAAAGGAGGGGAGGAAACGGAGAAAA GAGAGGGGAGAAGGAAACGGGGCCGAGGAAGGGGGGGAAAGA
 G G G G G A A G G G G G A A G G G A G A G A A G A G G G C A C C A A G A G A G G A A AAAACCTTGAAAGGCCAGAGAAGGAACCGGAAGGGGAGGGAC G GAA A $A \operatorname{G} G \mathrm{G} A A \operatorname{A} A A G G G G A A G G G G A A G G G G G G G G A A A G A G A A$ GAGGGGAAGAAGGAAGGAGACCGACCAAAAACGGGGAAGGAA G G G G A A G G A A A A GAGGAAAAGGTTAAGGAAAAAAAAA GAGAC $A C G G A G A G A A A G A G G G A G C A A G A G G G G G A G G G A G G G G G G G A A$ GGAAACAAGGGGAAGGAAAAAAGGCCAAAAGGGGGGAGAACC

GAAGAAGGCCGGAAAAGGAAAAGGCAAGAAAAGGGGGGAGAT G G G G G GAA $A \operatorname{GG} \operatorname{G}$ AT TAACCAGGGAACCAAAAGGAAGGAAAAAG AAAGGGGGGAGGGGGAAGCCCCGGAGCAAACACAGAAAGGAG CCGGCAAACCCACCGGAACCAGCCTTGGAAACGAGGACAGGG G G G A A A A A G G A G G G G A G G G GAC G GAAAGGGGAGGAAA GAAA G
 G G G G A A G G G G A A G G GAGAAAAAGACAACGAGAGGGGAA G GAA AAGGAAGAGAGAAAGGAGAACAGGGGGGGAAAGAAAAAGGGG A G T T G A A G G G G G A G G A G G A A G G A A A GAGGAGGAAAA G GA GAA AAAGAAAACGACGGAGAAAAGAGGCCCCGGAAAAAAAAAAGG A A A A A A G A GAG GAAGGAAGAGAAAGGGGGGGGAAAAGAACAG G G G A C A A A A G G G G G A G A A G G G G G A GAGGAACAGGAAA GAAAA TATTGGAGCCACCAGGAGACGGGGAAAACCGGAGAACAAAAA GAGGGGGGACGGAACCAACCGGGGGGAAAAGAAAAAAAAAAG $G G C A A C A A C C A A G G A A G G G A A G A C A A G A A G A G G G A A A A A A G G$ C GAA A G G G A A GAAGGGGAAACAGGGGCCGGAGCAAAAAGAAA A A G G G G G G A A A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G A A A A C C A C A A$ G G G GAAAACCGGCCCCGGAAAAAAAAAAAAAAAA GAAAGGGG $G G A A G G A A A A G G A A A A C C C G A A G G A G A A G G A A A G A G A G A A G A$ A A C C G A A G G G G A G G G G G G G G A G G G A G A A A G C C A G A G G G G G G A G GAAGGGAAAAAAATAAAGGCAGAGAAAGGCAATGGGGAAAA G G G G G G G G A A A A A A A A A A G GCCGGCCAGAGACAAACAAAAAA A A G A G G A A G G G GAA $A \operatorname{GGGGGAGGAAAGAATTGGCCAACAAAAG}$ ACAAAAAAAAGGATGGACAGGAAAAAAAAAGGAATTACAAAA A A G G A A G G A A A G G G C CAA G GCCCCAACCGGGGA GAAAAGG GA CAAAGGAAAGAGGAAAAACCAACCAGAAAAGAAAG GAAAA GA T TAA A GAAAAGGCCGAAAAAGGCCAAAAAAGGGGGGCCACAG T TAA A GAAAAAGACGGAAGGCGGGGAAGGGCCGGAAGAGGAA A A GAA A G GAAGGGAGAAAAAGAAAAAGGGGGGCCAAAAAGAA GACCAACCAAAGAGGGGGGGCCAAGGTACAGGACAAGGAAAG A A A A A A C C G G A A G A A A C A G G G G G G G G G G G G G G G G A GAC C C G G G G GAGGCCCCGAAGAGCAAAAAAAGAGGGAGGGAGGAGAAAG
 A A G GAA A GAGACGGCCGGAACCGGCAGGAAGGGGAAGGAGAA G G G A A A C C G GCCAAAACCCCACGGACACGGCCAAGAAAGGAA
 A GAGGAAAGGCCAAAAAAGGAAGAAACAAGAGGGGGAAGAAA A G G GAA A A A G G G G GCCCAGGAAAGGGAGGGGAGAAGAAAGGG GAGGGAAAGGGGGGGGGGGGAAGGGGAAAAGAAGAAAAAAAG A G A A A GACCGAGAGGGAGAGACGGGGGGCAGAGAACATAAGG A G GACCAAGGAAAAGGGGGGAAGGAAAAGGAAGGAGGAAAAG G G A A G A G G A A A A G G A G A T G G G G C C A A G G A A A GA G G G G G C C A G AAGGAAAAGGGGAGGAAGGGAAGGAGGGAAACAGAGGAGAAA G G A A G A G A G A A A A G A A G A G A G G G G G G G G G A G G A A G G A A C C G G A A A G A A G G G A G A G G A A G G A A G G G G G G G A C G A C A G G G A G G G A A
 GAAAAACCGGAGGGAAAAGGGGCAAGAAGGGAGGGAAGAGAA G GCCAAGGAAGGAAGGGGGAGGCCAGAAGGGGGACAGAAACAC G G G GAGAAAGAGAAAAGAAAAGGGAAAGAGAAAACCAAAA GA G G G G G G G G G G A A G G G G A A A $\mathcal{A} G G A A G G A G G G G A A G A G C A G G G G$ A A GAGGAAAGAAGGAAGAAAAAGGAAGGCCAGCCAAGGGGAA A A A A A A G G G G GAA A GAA A GAACGGAAGCAGAAGGGAAGAA GA A G G A A A G A A G A C G A G A G G A A G G A A G A G G G G A A A A C C T T A A G G AAAAGACCAGAGGGAAAAGGACCCAAGGAAAAGGAACC G GAA A A A A G G A A G A A A G G A G G G G G G A A A G G C C A A G G G G G G G G G G A A
 A A G G A A G G A A A A A A A A C C G G G G C C A A G GAA A G G G G G G G G G A A T T G G G G A A G G A A A A G G G G G G G G A CA CA $\mathcal{A} A A A A A A A C C G G A G G G$ $C \subset A G A G G A A G C C G A G G G G A A A G G G A A A G A A A C G A A A G A A C A A$

A ATTGACCAAGAGGAAGGGAGGAGAACAGGAAGGAAGGGGCC GAAAAATTAAGGGGAGAAAAAAAAAAAAAAGGAACCAAAAAA A A A GAAGGAAGAAAAGGGCCGAGGCCAAGAACAAAGCGAGAAA

 GAACGGGGAAAGAGAAAAGAAGGGGGAGGGGGGAAGAAGGAA
 G G G GAGAAAAGAGGGAAGGGGACCAGAAGGAAGAAGAAAAGAG GACCAGAAAGGAAAAGCAGACAAAGGGAAAGGAGAAAAAAAA GGAAAACCGGAGAACCGGAGACGGGGAAGGGACGGGAAAAGG A GAA A GAGGGAAAAGGGGAGAAAAACCCGGCAAAAAGGAAGG G G G G A A GAGGGGAAGGAGAAGAGGCCAGGAAAGGAGAAAAAG A A G GAA A GAGGGAAAAGAAAAGCAAGGGCCGGGGAAACAA GA A A G G A A G G A A G GAAGGACGGACAAAGGAGGCCAACCAAAAAA AACCGGCCCCGGAAGAGGGGGGCAAAGAAGGAGGAAGGAAAA G GAAACCCAGGGGAAAAAAGAAGGGGAAGAAGCCAAGGAGGA GAGAAGAGGAAACAGGAGGAAAGGAAAGATAAGA GAAAAGGG G G G G G G A G A GAA $A \operatorname{GAA} A G A A A G A A G G G G A A G A G G A A A A G A A A$ G G G G G G G A G GAAAACCAAACGGACGGAAAAAAGAGGCCCCGG C C G G A A G G A G G A A A A A A G G GAAAAGGCCAAAGGAAACAAGAG A G G GAA A G G G GCAGGGCCGGACGAAGGGGGGGAGAAGGGGAG A A A A GAAACCGGGGAGAAAAAGGACCGGAAAGAGAGGGAGGG G G A A A A A A A A G G G G G A A A T TA $A$ G GAGAAGAAGAAAAAAAAGAA A A A A G A A A A A A G A A A A G GAA $A \operatorname{G} G A A A A G G A A A A G G G G A A G G A A$ A A G G G G G A A A A A G G A A G A G G G A A A GAGGAGGAA A A A A A A $\mathcal{A} G \mathrm{G} A$ GAACAACCAGAAGAGGGGGGGGAGAAAGCAGACCAACCAAAC A GACGGAAGGGAAAGGGAGGAAGGAAAGAACCGACCCCGGGG A A G G A A A G A G G G G G A A G G G G A A A G A G G G A A G A GA G GAA G G C A A GGCCCAATAAGAAGGAGCACCGACAAGAGAAAGGGGACCGG A A A A A G A CAAGGAGAGAGAGGGGGCCACCCACAAGGA
GAAGGGAGGCCAAGGGGAAGGGAGGAAGGAGGGAAGGGGGG AAGGGGAAGAAAAAGAGGGAGGGGGGAAACAGAGCCGGGGAA
 AAAAAGAGGAGAGGGGACGAGGGAAAGGAGAAGGAGAGAAGG AAAAAAAAGAGAAGGAGGACACAGAGAGGGGAGACCGAAAAG A GAGAGAAAACCGGACAGAGTAAGAGGGCCAAAAAAACAAGAA A G G G G G GAAA $A \operatorname{AGGAAAGGGGGAAGGGGGAAAAAAGGAGAAGA}$ A GAGGAAGCAGAAAAAAAAGAGGAAGGGAAGAAGGAAACCGG GAGACCGGGGAAAGAAAAGGGGGGGGGGGGCAAAGGAACACC AAGGGAAGGACCGAGAGGCCAAACAAAAGAGGAAGGCAAAGA A GAGGGAAGGAGGGGGAAGGAAGGAAAGAGGAGAGGGAAGAA A G G G G G G G A A G A G A A A A A A C G GCC G G A A A A A A A A G GA GAA C C AGAAGGAGTTGGCCGGAGAGGGGAAAGGAACCAAAAGAAGAG G GAGAAAAGGGGAGGCCGGAACCAGGAAAGAGGACAGCCBA GAGAAAAAGGAGGGGGGGAAAAGGAAAAGAAGACAAGAAAAG GAGGAAGGGAAAAGAGAGCAGAGGCCGAAAAAGAAAGAAAAA GGCCAAAAGGAAAAAAAAGGAAAAAGAAAAAAGGAGGAAAGG GGCCGGGGAAAGCCAAAGAAAAAAAAAGCCAAGGAAAAAGAA AACAGGGGGAAAAAAAAAAAGGTTAGGGACACGGGGGGAAGA AAAAAAGGAGAAAGAAGGAGAAGGAAAAAAAGCCGGAAGGGG AAGGAACAAGAAGAAAAGACAAGGAGAGGGAAAAAAGGCGGA C C C C A A G G G G GAAAAAACGGAAAAAAGGGGAGAAAACC G GAC G G C C A A A A G G G G G G A A G G G G G G A G G A A G A A A A G G G A A G A G A A G G G G G GAAAACAGGAGGGGGAAAAAAAAGGGGGGGGGGTTAA C CAAAAAAAGCCGAAGAAGGGGAAAAGGAGAGCCAGACAAAG ACAGGGGGAGAGAGAGAAAAAAAGAAAACAAAAAAAAAAGAG GAGGGAAAAGGAACGGAAGGCCGGACAAGGAAAAGGGAAAAA G GCC G A A G G G A G G A A A A A A A G GCC G G G GAAA A A G GAC C G G A G $A C A A A A A C A G T T G G A A G G G G G A C C A A G G G G C C A C A A C C A G G G$

A A G G G G G A GAGGAAAGGGAAGCAAGAGAGATTCCGGGAGAAA
 CCAAAAAAACAGGGGGAAAGCAAAAAAAAAACAGAAGGAGAA AAAGGGGGGGGAGGGGGGAACAAAAACAGGGGAGGGCAGAGG G G G G G G G G GAAAGGGGAACAAAGGCCAAAAACAAAGAGAAC G G GAA $A$ A A $\operatorname{A} G A A G A G G A G A G G A G A A G G G G G G G G G G G G A A A A G A$ G GAAGAAACCAAAAGGGGAAAACCAAAGGAAACCCCAGAAAA AACCAGGACAAAAGCCCCGGGGAACCAGCCACGGGGCAGGAA A A $\mathcal{A} G A G G G G G G G G G G G G G G G A G A T G A G G G G A A G G C A G A A A A A$ G GAGCAAGAAGGGGAAGGAAAAGGGGGGGAGGGAGGGAGGCC G G G G A A A A G G A A A G G G G G A A A A GAGGGGGAGGCAAAA GA G GA C C G GCCGGAAAAAACCCCGGGGGGTAGGAGAGGGAAAAGGGG G G G G A A G G G G A A A A A A A A GAGGAAA A A A G G G G G A G GAA G G A A A A G GCCAGAAGGGGAAGAGAAGGGGGAAACGGCAGAAAAAGG A GAGCCCGGAAAATGAGGAAAGAAGGGGGGAAGAAGAAGGGA A GAGACAGAAGGGGAAGGGGAAAGGAAAAGGGAGA GAA GGGG A A A A G G G G GAAA $A \operatorname{A} \operatorname{A} A A G G G G A G C C A A G G G A A A A G A G G A C C B G$ G GCAACAGGGAAGGAAAGAAACAAGGGGAAGAGAACGAGAAG AAGGAAGGGGAAAGCCAGCCGGACAAAGAGAGAGACGGAGAA A A G A C A G A G G G G G G G G G G G G A A G G A G G G G G G G A G C C G G G G G G G G G G G GAAAAACGGGGAAGGGGAAAAGGAAGGAACCGGGGGG A GAACCAAAAGGGGGCAGAAACAAGAGGCCAAGGGGAGAGAG A A A G G A C C G G A A C C G G G G T T A A A A C C G G G GAA G G A A G G C C A A GAGGCCGGAGAAACAAAAGGGAGAAGAAAGCAGAAGGGAGAA G GAACAGAGAGGAAAGGGGGAAAAAAAAGGACGAAGAGAAAA G GCCAACCGACGGGAAAAAAGAGAGAGGAAAACCGGAAGAAA AA $A \operatorname{GGGAA} A G A G C C A G G G G G G G A G G A C C A A G G G A C A A A G A A G$ A A A T G G GCAGGGAGGAAAAAAGACAGGGAAGGACAAAAAAAA G G G G G GAAAAGAAGAACCAGAGACAAAGGAAGAAAATAAACC G G G G G GA G G G A A G GAAGGGGAAGGCCAAGGGGAAGGAAAAAA A A A A A ACCAAAAAAAAAAAAAAGGGGGGGGAAAAAAAACCAA G G G G G GAA A G G GAA A GAAACGGAGAGAGACAAAACCAGAAAG G G GAAAAACGGGGGAAGGAGGACCACAACCGAGGGGGAAGAG A GCCGGCAGAGAGGGGAAGGAAAGAGGGACTTAAGAAAGAAA A GAGAGGGAAAAAAAAAGGAAGAGGAACAGAGGAGGGGGGAA
 G G G G GAGGAACCCCAAAGAACCAAGAAAAGGGAGGAGAGAAC GAAGAGCAGAGGAAGGAGGGAGACAACCAGGAGGACGGAAGA G G G G C C C C G G G G G G A A C C A A G G A A G G G G G G A A A A G G G G A A G G

 GAAGAGGAAAGGGGGGAGGAAGAGGAGAAAGGAAAGAABAAA GAGGGAGAGGACGAAAAAAGAGAGGACAAAAAAGGGAAGAAG AACCAGAAGAAGGGGGAGCCGGAGAAGGAAAGAGGAGAAAAA A A G G A A A A G G G G A A GAGGGGGGACGGAAGAAGGGAAGAAAA $A$ G G G G A G C A G G G G G G A A A A $\mathcal{A} G G A G G A A G G G G A A G A A A G G A G A G$ GAAAGGAAGGGGGGCCGAGGGAAGGAGGGGAAAAAAAGAGGA G G G GAAAAGAGAAAGACCGGGAAGCCAAGGGGGAGAGAAAAA GACAAGGGAAGGCAGGCAAACAAAAGAAAAGGAGGAGAAAAG A GCCGGGGAAAAAAGGGGAGAAGGAAAAGGGGGGGGAAAAAG A A G A A A A G GAGAAAGGAACAGGGGCCGGAAAGAA GAAAAGGG $G G A A G G A A G G A A A G G A A A A A G G G G A A G G G A G A G A A A G G A A A A$ G G A A A GAA $A \operatorname{GGG} \operatorname{GAA} \mathrm{G} G \mathrm{G} A C C A G A A A A G A A G C C C A C A A G A C A A$ G G G G G GCCAAGAAGGAAAGAACAGGAGGCAAGAGGGGAAAAC AAAGGAAAAGAAAGAAGGGGAAGAAGAAAAGAGGGACAGGAG G G G G A A A G A G G G G A A GAACCGGCCCAAAGAAAGGAAA GAAAG GAAGAGCCCCCAAGAAGGAGGGAGAAGAGGGAGAAAAAAACC
 $A A G G A A G A G G G A G G C A A A G A G G C A A G G G G G A G A A G G G G A A A A$

A G A A G A G G A A T T G A G G A A G GAAGGGGAGAAGAAAGAACAAAG
 G G G GAAAACCGACCAAGGACGGAAAAAGCCGGAAAAGGAAGG G G G G G G T T G GAGCCAGGGGACCGGCCACAGAAACAAGGGGCA G GAGGAGAGGCAAGAGCCGAGGGGACGAAGCAGGGGAAGGGG AAAGGACCAAGGAGGAGGAACCGAAACAACCAAAAGCCBAGA G G G A A A A G A C A GAA $A \operatorname{GGGAGAGGAAGAGGAGGGAAAAAAGGAG}$ GAGGAGGGGGAAGGAAGAGGGGGGAAGGACAGAACAACAGAA
 GAGGGAGGGGCCGGGAAGGAAAAAGGGGGGAGCXAAGGGGCC GAGGCCGGAGGGGGACAAGGCCACGGGGGAGGGGA$G A G A G G A$ G G G A A C A A A C G A GAGGGGGAGGAAGGGAGGAACCAAAAAAAA G G A A G G G G G G G GAA $A \operatorname{GGGGAAGGAAGACCCAAAAACAGGGGCC}$ AC G GAAAGAGGGGGCCGAAAAAAAAAGAGGGAGAAAAGGGCC AAAAAAAAGGGAGGGGGAAAAAGAAAAGAGAAGGGAGGGGGG GAGAAGGGCCAAAGAAGGGGGGGAACAGAAAAGGCCAAGAAA A A GA $\operatorname{A} G C A A C A A A G A G A A A G G A G G G A A C A G G A G G A G G G G G A C$


 A G GAAGAGAGAAAGAGGGGAGGGGAAAAGGCACAGACAAACC C CAAAAGGAAACGGAAAAAGCCGGAGGAAAGGAAGGAAAAGG A A A A A A G G A A G GCCAAAAAAGGAAAAAAGGGCCAACCAAAA A A $\mathcal{G} G A A A A A G G G G G A A A A G G G G A A G G G G G G G G G G A A T X A A C C$ G GCCCCAAGGGGGGGGAAAAGGAACCGGGGGGAAAAGGAGAA G G G G G G G G A A A A A A G G G GAAAA $A \operatorname{A} G G A A A A C C G G G C C G A A A$ G G G GAAAAAAGGCCGGGGGGGGGGAAAAAAAAGGGGAAAAAA A A A A A A A A A A A A A A A A A A A A G G A A A A G G G GAA G GAA G GAA G G A A A A G G A A A A A A G GAACCGGAAAAGGGGCCGGCCGGGGAAAA G GCCGGGGGGAAAAGGAAAAGGAAGGGGGGAAAAAAC
C G GAA $A \operatorname{GAAAAACCCCAAGGGGGGAAAAAAGGAACCAAGGGG}$ AACCCCAAGGAACCGGGGAAGGGGAAGGAAGGGGAAAAAAGA G G G G G G G G G G G G G G G G G G A A G G A A G G A A G G G G A A G G G G G G T T A A G G G G A A A A A A A A G G A A A A A A A A G GAAGGCCGGAAAAAA G G AAAAAAGGGGGGAAAAAAAAAAAAAACCAAGGAAAAGGACAA G GAA A GAAAAGGAAGGAAAAAAGGGGGGAACCAAAAGGCAAA AAAAGGAAAAAAGGAAAAGGAAGGAAAAAAGGAAGGAAAAAA T T G GAA $A$ GAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G G A A G G G G G G A A A A $\mathcal{A} G A A G G C C G G G G G G A A G G A A G G G G G G$ G G G G G G G A G GCCAAAA $\mathcal{A}$ C GAAGGAGAGAGCCGGGGAAAAAAAA A A G G G G G G A A A A A A G GCCGGAAAAAAGGCCGGGGGGAA GAAA
 G GAGCCAGGGGGGAGGGGCCGGGAAGGGGGAGAAGGAAGACC A A G G G A A G G A G A A GAAAAGGAAGATAGAGGAAACCGAAAAAA CAA $A \operatorname{AC} C \subset A G G G A A A G G G A C A A G G A A G G A A G G G G G B A A A A A G$ C C G G A A C C G G G G G G A A A A A A $\mathcal{A} G G G G G G G G G A A G G G G A G A A C A$ C C G GAGGGAAAAAGCAGGCCAAAAAAAAGGGGAAAAAACAAA $C C G G A A G G G G A A A A G G G G G G A G A C G G A C A G G G G G A A G A A A A G$ A G G G GA A A GAGGGGAAGGACGGCCAAAAGGAAAAGGCAACAA G GCC C A G G G G G A A G G A G G G G G G G G C C A G A A C C G G A A G G A G C C CAAAACAACCCCCAAGAAGGAACAAGGGGGACAAGGGAACAG G GAAGGACAGGCACCCAGAAGGGGAGAAGAAAAAAAAAAAGA GAGACAAGAGACCAAACCAAGGAAGGGAAAGGGGAAGAGGGA A A A A G A GAGAAGAAAAGGAAGGAAGGGGAGAAGGGAGAGAGA $A G C A G G G G G A A G A G A A A A G G A A A A G G A A A A A G G G G A G B A A G A$ A A A TAGGGAAAGGGAAGGAGGGACTAAAGGGGCCCCAGAGAA
 $G G A C C C A A A A A A G G A G C C G G A A C C A G A A C C A A A G G A G G A B A A$ $A G G A A G A G G G G G G G A G G G G A A A G G C A G G G G C A A A C C A A G A A A$

ACGAGGAACCAAAAAGCAGGAAAGACGGAGAAAGAGAACCAA A G A A A A GAAA A $A \operatorname{AGGGGAGAGGACCGGAAACGAAGGAAAAAAG}$ G G G G G A G G A G A T G A G G A GAGAAAAGGCCGGCCAAAAGGAAGG A A A A A A GGCCAAGGAAAAGGTTGGAAGGGGAAAAAAAAGGGG AA $\operatorname{A} G A A G G G G A A G G A A A A G G G G C C A G A A C C A A A A A A A G G G A A$ A A G GAAAAGGAAGGAAGACAAAGGGGAGAGGGGGAAAAGGAA A A A A A GAAAACCGGAGAGGGGAGAGGAAGGGGGGAAAAGGGG GAGGCCGGGGCCGGGGAATAAAAAGGAAGGAGAGGGAAAAGA
 GAGGAGAAAGCCAAAAGGAAGGGGGAGGAGCAGGGAAGGGGG AAAAAAAAGGGGGGAACCGGATGGACAAAGGGAAGGGAAAAA C CAAAAGAGGAAAAGGCCAAAAAACCGGAAGGAAAAAAGGAG
 AAGGCCAGGGAAAAAAAGAAGGAAGAAAGGGAACAACCCCCC G GAA $\operatorname{A}$ GAA $A$ GAAAACCCAGGGAGAGGGAAAGGTTAAAACCTT A A A GAA A GAAAACCACGGAGAAAGCAGGTTAAAAAACC G GAA A G GAAA $A \operatorname{GCC} G G A A A A A C C A A C A A A C A G G G G G A A G A G G G G A A$ GAGAGGGGAGAAGAAAGGAAGGGGAAAGGACAAAGGGAAAGA C C G G GAGGAAGGAAGAGGAAAAAAAGAAAGAACCACAAAAA G ACAGGGACAAGGCCGGCCGGGGAAGGAGAAACGAAGGGGGCC G G G GCAGGGAAGCAGGGGGAGAGAGGAAAAAAAAGGAAGAAG AAAAGCGGAGGGACATGGGGCACACGCCAAAAAGAAAAAAGG A A G G A G A A GAAA $A \operatorname{A} G \mathrm{G} A \mathrm{G} G C \subset A A A A G G G G G G A T G G G G A A G G G G$ G G G A A A G G A A A A G GAGAGACCCAAGGCAGAAGAGCCAA GAAA A GAAAAAAAAGGAAGGGGAGTAAAGAAAGGCCCCGAACAAAA GAACGAAGAAGGAACCGAAGAGGGGGCCGGACAAAAGACAGC GACAACGAAGGCGAGCAAGGGGAAAGGAGGGAGAGGGGGGGG GACCAGGGAACAAAAAAGGAAGAACCCCAAGGAAAAAAGGAA CCCCGAAAAAAACCGGCCAGGACAGGCCCAGGGGAAAAAAAA C CAAAGAGGAAGGAGGCCGGGGGGAAGGAAGGGGAGAAACAC GACGTAGAGGACGGGGGAAGGGAGGGAGGAGGAAGGAGAGAG G GAGAGGAAAAAAGGAGGAAAAAGGAGAGGGGGGAGAAAGAA ACAACAGGCCGGGGGAGAGAGGAGAGAAGGAAAGGAGAAGAA G G G A A A G G G A G G G G G G G G G G G A A G A A G G T T G G G GC C G G A G A A AA $A$ A $\mathcal{A} G G G A A G G A A A A G G A A G G A A A A G G G G C C A A G G G G A A A A$ A A G G A A G A A A A A G A A A GAG G G A A G G GAGAAAA A A A A A A G G A A G GAAAGAGCCGAGGACGGAAAAGAAAAAAGGGCCGGAGGGCC AAGGAAGGCAGGAAAGCAAACAAAAAAAAACCGAGGAGGGGG A G A A G G G G G G G G A A A G C C G A C C G G A G A A G G G G G G C A A A G G A G ACGGGGAAAAGGGAAAAACCGGGGAAGGGGAAGGACGAGGCC AACCGGGAACAAGGAAGAACCAGCAGAAAAGGAAGACCACAC GAGGGAAAAAGAGGAGGGGAAGGACCGAGAAGACAGAAGGGG GAA A A CAA $A \operatorname{A} G \mathrm{G} G \mathrm{G}$ GAAAGGAGGGGGGAAGAGGGGAGGAAAAA G G G A G G A G A A G G A G G G A G G A A G A G C A G G G A GAGGG GAA G G A G AACCAGGGGAAAAAACAAGGCAAGAAGGAAGGGGAAAGAGGG
 A G A G G GAA A G A G G A G G A A A G CA A A A G G GAGGAAAG GAACCCC A GAGAAGGAGGGCAGGAGAGGAGGGGAAAACCGGCACCAGGG AAGGCCGGCCGGGGCCAGAGGGAAGAGGCCAAGGGGGGAAGA A A G G G GCCGGGGGGAAAAACAGGAGGCCGGGAAAGGAGAAAA GACCGAGGGGGGGGGGCCGGAAGGGGAAGGAAGGGGAAGGGA A GAAAGGGCCAAAAACGGGGGGGGAAAACCAAAGAGGGGGGA G GAGAAAACCAGCCGGAAGGAGGGGGGGGGAGCCGGGGAGCA G GAACA $A \operatorname{A} G \mathrm{G} A A A G G G G A A A G G G A A G G G G C C G G A A A A G G G C A C$ G GCC $C$ G $A \operatorname{A} G G G G A C A G G A G A G G G G G G G G G A G G G A A G A G A G G G$ G G G GAGGAAACCAGCCGAGGAAGGGGCCAAAAGATAAAAAAA A G GAA A A $A$ A A G G GAAAA A $A \operatorname{AGGGGAGGGAAAAAGAAAACAGGAG}$ GAA A A A A G A A G G G G GAGGAAGGGGGGAAAGAAGAACA GAAAAA AGGAACAGAAGGGCCCGGGGGGACAGCCAGGGGGCAAAGGCC

G G GAGAGGAAACAGGGGGAAAAGAAAGAAAAAGGAAGGAACA AA $\mathrm{A} A \mathrm{~A} G \mathrm{G} A \mathrm{G} A \mathrm{~A}$ GAGAAAAAACGAAAGGGGAAAAAAAAAAAGGAA A A G G A G G G A A G GAAA $A \operatorname{AGGAAAAAGGGGGGAAAAAAACAAAGG}$ G GAAACGGGGGGCCAAGGAAATGCAAAAAGAGGACCAAGGAA G GCA $\operatorname{C}$ GAAAAAAGGGAAAGGATAGGAGGGAGAGGGGAGAACA A A A G G G G A A A G G G G A G A A G G G G A A A A C C A A G G A G A A G G G G A G G GAGGGAAGAGGGAAAACACAGGAAAGGAGAGAGGGAAAAAA $G G A A G G A A G G C C C C G G A A A G G G A A G A G A G G G A G G C C G A G G A C$
 A G G GAA $A \operatorname{GAAC} C G G C C A C A A G G G G G A G A G A G G G G G A A G G G G G$ GAGGGAAAGGGAATGGACGAGAGGAAAAAAAAAAGGAACCAG A A G G A A A A G GAGTAAGACCCGAACGGAAGGAGGGAAAAACAC A G T T T T G G A A A A A G G G G A G G C C G G G A G G G G A A A A A CA G C A A A CCGGAAGAACAAGGAGAAGGAAAAAAACGGAACCAAGAAAAA AACGGGAAAGAGAGAAGGAAGGCAAAGGGGAACCAAAAAAAA AA $A G A A A A G G C A A A A A A G A G A A G G G G G G G G G A C C G G A A A A A A$ A A A A A A A ACCAAAGAGCCCAAAAAGGGGGGCCAAAGAAAAAG A GAGGAGGGGAAGGAGAGAGAAGAAAGGGAGGAAAGAAGGAA G G G G G G G G A G G GAC $\mathcal{A} G G G G A A A A G A G A A A A G A A A A C G G A G G A$ G GAAGGAAACACAGGAGGAAGAAGAGGGAGAAGAAAAAAAGG GACAGAGGGGAACCGGAGAGCCAAAAAAGGGAGGAACAAAGB G G G GAGAGGGGGAAAAGGAGAAAAGAGAGGGAGGCGAAAAGA AAACAACCGAAAGAAGGGAAGGGGGGAAAAAGACGGGGAAAG G GAA $A \operatorname{GAAA} A \mathrm{~A} A \mathrm{~A} A A A A A A A G G A G G A A A A A A C C A A G A G A A G G G$ $A G C C G G A A G G A A A G G A G G T T A A C C G G G G A A A A G G C C G G G B A A$ GAAAAAAAAGAAGGGGGGAAAAAGGGGGGACCGGCCAAGGAA G G G GAAAAAAGGAAAAAAGGGGCCAAAAGGGGGGGAGAAAAA G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} C \subset A A G A A A A G A A A A A G A A G G A A A A G A G A A A A G$ G G G G G GAGGACAGAAGGAAGGGGGAAAAGAGGAAAACCACAA GAACAGAAGGCCCCAGAAAAAACCAAGGAAAAAAGGG
GAGCCAAAAGGGGAGGAGGCCAAAAAAAACCGGAAAAAGCC AGAGGGCAAAACGGGGAAAGACAGAAGAGGAAAAAAGAGGAA A A A G A G G G G G G A G G A G G G G G A A G G A A G GAAA A A GA G G A G G A A
 AACAGGGGGAAACCAAAAAAGGAAGACACGAAGACCGBATAA G GAAGGGGCCAGAAAAAAAAACGGCCCACAGAGAGGGGAAGA G G G GAACAGAAAGGAGGGAAGAGAAGAAGGGGACAGAACAGG AA $A G A G A A C A G A A G G G A A A A T T G G A A G G A G G G G A A A A G A A A A$ A GCAGACAGGAACCAAGGAAGGGGCCGGGGAAAAAAAAGAGG
 GAAAGCGGAAGGGGAAAAAGGAGGGGACAAGGAGAGAGAAAA
 G GAAAGGGAGAAGGGGAACCGAGGAAGGCCGAACAGACAGAG GAAAGGAACCAAGGGGGGGGTTAACGAAAGCAGAGAACAAAG A GAG A G G A G A A G A G A A A A A G G G G A G G G G A G A A G A A A A C A A A A
 C C C C G GAGAGGGACAGAGGGAGGAAGGGAAAAGGAAAAACAG C C G G G A A C G G A G A G A A A A G G G G C A A A G G GA G G G G G G G A T T G A AAAAGGCCGAAGGGGCGGGGGGCCGGCCGGGAGAAGAACCAG

 A G GAGAGGGGCCGGAATTAAAAAAAAGGAAAACCGGCCGGGG
 G GAACCGGGGCCAAAAGGAACCCCAAAACCGGCCCCGGGGGG
 G G G G G G A A A A A A C C G G G G A A G G A A A A A A C C G GAAG G C CAA G G C C G G A A A A G G A A A A A A G GC C G GAAAAC CAAAA G G G G G G G G A A G GCCAAAACCAAGGCCGGGGAAAAGGGGGGAAGGGBAAGGGG $G G A A A A G G G G A A G G A A G G C C G G A A A A G G G G A A A A G G G A A A G G$

AAAAGGGGGGAACCAAAAGGGGGGAAAAGGAAGGAAGGGGCC G G G G G G C C G G A A G G G G G G G G A A A T A A G G G G G G G G A A A A C C C C A A G G A A G G G G G G G GCCAAGGAAGGAAAAAACCAAGGAAAAAA G GAA A G G G G G G GCC G G A A A A A A G GAAAAAAAAGGGGAAAAA T AAGGCCAGAAGGAGGGAAGAAAAGCAGGAGCCAAGAGGGGGA A G G G G A GAGAGGAAGAGGAGAAAAGGGAAGGAGGGAAAAA GA GAAAAAAAAAAAAAAAAAACCCAAAGCCGGAGTTAAGAGAGA GAACAAGAGGAACAAAAAAAGACAGGGAAGGGAAGGGGAAAG A GACAGGGCCCAGAAAAAAGGGAACCGGGAAAAAAGCAGAAA G G G GAGAGGGAAGCGAGAAAAGCACGGGGGGAAAGGAGGGGA G G GAA A G G A A G G G G GAAAAAGGGGGGAAAACCGGCCAAAAGG G GAA A A GAAAGAGGCAAGACCAGAGGGAGAAAAAGGAGAGAA A A C C A A C C A G A A A G A A GAGGGGACAGGGGGAAGGGAGGAGAG G G G GCCGGGGAAAAAGAGGGCAAGAGAAAAAAGGAAAGGAAA A G G G G GAAACAAAAAAAAGAAGAGGGCCAAGGAGAGGGGGAG G G G GAGCAAAGAAGGAGGCCAAGGGAAGAAGGAAAAAAAAAA G G G GAAAACCCCAAGAAAAGAGAACCGGCCGGAGGAAGAAAA G G G G G A G G G A A A A A A A A C GAACGGGAGAGGAGAGAGG GA GAA A A G G A A G A G G C A G G A G G G G GAGGGCCGGAATTAAGAGAACAG A G G G A A G G A A G A G G G G A C G A G A A G A A G G G G G G A G G G A C G G A C GAAGACGAAAGGAAGGGAAAGGGGAGCCGAGAAAGGGAGAAG
 G GAGGAAC GAGGAGGAAAAGGGGGAAGAGAAG
$11023000-9 \mathrm{G}$ - 0 G G G G C C G G G GAGAGAAGGAGGAAAAAGGAGAA A A A GAACCCCCCGAGGAGAAAAAGGAAGGAAGCCGAAA G GAAA $C \subset G A G A A G G G G A G G G G G A C C A G A G G A G G C C G G G G C C G G G G A A$ A GCCAAAGGAGGAGGAAAGGGGAAAGACGGGGAAAGAAGAAA CA $A$ A $\operatorname{G} A A A A G G A A G C C G G G G C C G G A G G G G G A A A A G G A A A A A A$ C CAAACGGCCAAAGGAGAAGGGGAAAAGGGGGAAGAACAGGA G G G G G G G G A A G G G G G G G G G G G A A A G G G G C C G G A A A A G G A A G G G G A A A A G G A A C C A A A A A A A A A A A A C C G G G G G G C A G G A A A G G A A A A A A A A A A G G G GAA A A G GAA GAA A GAAAGACGGAGGGAGAA A A A A G GAACCGAGAGAGAAAGGAAAGAGACAACCAGGAAAGA G G G G G A A C A G CAACCCGGAGAAGGGGTTGGAAAAGGATAAAG A A G G G GAA A G A A C C A A G GAAAAAACATTCCAGAGCCAGGGCA A A G G C A A G A A G G A A GACAAAGAGAAAAGGGCAAAACA GAA G G G GAA $A \operatorname{GAA} \mathrm{~A}$ GAAGGGGAAAAGGAAAAGGGGGGAACACAAGAA GAAAACGAACAGAAGGCAGGGAAACAGGGAAAAAGGGGGGGG G G A A A A A A G GAACCGAGAAGGGAAAGACAAAAGGAAAAAAGBG G G G G G A C A G G A A A A G G G G G GAAA A A A G GAAAAAA A G GAAAAA GAAGGGAGAACCGCCGAGGGAGGGGGGGGGAAAAAGAAGAAA A A A A A A C C A G A A A A G G C C A A G G G A A G G G C C G G A T G G G G A A A G A GAAAAACGAAAAAAAAAGAGGAACCTAAGCCGAAAGGGGAG $C \subset A A G G A G G G G A A A A C G A A G A A G G G A C C A G G G G A A G G G C C A G$ C CAA $A \operatorname{GCC} G G A A C A A A G G G A A A G G A A A C G G A A A A C C G G G A C A$ G G C A G G G A A A G G A G G G G A G G G G G G A A G G G A G A G G A G G A G A G C A A G G G A A A GAGGA GACCAGAGGAACCGGAAAACCGGGAGGAA GC C A A A A A G G G G G A G G G G G GCC G G G GAAGGAAGAAAAAAAAC AAAGAAAGAAAAGGAAGGAGCAAAACGAGACAAAAAGGAAGA A A G G G G G G A A A A C C G G G G A A A GAGCCAAAAAACCAAAGAAAG GAAAAGGGAACCGGGGAAGACCGGCCGGAGGAGGAAGGGGAA A G G G G G G G A A A A A A A A A CAGCAACCAA GAGGAGAA G GAA A A A
 CAAAAAGGAAGAACGAAGAGGAGGGAAAAGGAGGAGGGGGCA G G G G G GAAAACCAAGGAAAAAAGGGGAGAAAAGGCCAAAGAG A A G G G A C A GAAAAGGGGAAAACAGGGGGCCAAAAGAAAAAAA G G G G G A G G G G A A G G G G C A A GAGAGCCATAGCAAAAGAAAACA A A G G G G A A GAAA A $A \operatorname{A} G A G G G G A A A A C A G A G G T A G G G G A G A G A A$ AA GAAAAGACAAAAAGGGAAGAAACCGGAGAAGACCGGAGGG

GACGAGCCAGCCAAGGGGCCAGAGCAAGAAGGCCAGACGGAA GAACCCAGAAGAAAGGAGGAAGGACAGGAAAAAGGGGGCCAG G GAGGGAAAAGGAGGGGAGAGGAAGGGAGAGGAAGAACAAAG AATAAAGGAAGGAGAGAGAAGGAGGGAGCAGGGGAAGGGGGG A G G G G G GAGGAAAAAAGGCAAAAAAGGAACAGCCAGAAAAAG G G G A A G G G A G A G G G G G C C G G G G G G A A G G G G G A C A A A A A C C C C G G A A G G G G G GCC G G G GC C G A A A A A A G G G A G G G G G T A G G G G C C GGCCAAAGAAGGAACCCAGGAGAGAGCCGAAGGGGGGGAAAA AAACAGAGAGAGAAGAGGAAAACCAAAGGGACCCGAGAAAAA AAGAAGATAAGAAGAGCCGGGGAAACGAAAGAGGCCAGAAAA
 G GAGAGGGAGAAAAGGGGAAAAAAGGCCGAACAAACCAAAAA A A A A A A A A G G GCGAGAGAAGAGGAGGGACAAACCAAAAGGAA G G A A A A G G G G G G A G C C G A G G G G G G A G G A A G A A A G A C G G A A G G
 A GAA $\operatorname{A} G A C A A G G A A A A A A G A A A G A A A G A C A A G G A G A A C G G G A$ A GAAAAGACAGAACGACCGGAGGGCCACAAGAGGACAAGAGG GAGGAAGAGACCGGCCAAGAGACCCACAGAGGGACCAACAGG AAGGAAGGAAAAGGGGGAACGAAGGGGAGGAAAAGGGACCBG G G A A C A G A A A C C A A G G A A C C GAGACCCCGGCCGAGGAGAAG G AAGGAAAAAAAAGGCCGGGGCCGGAAAGAAAAAAGGAAAGGG AAAAAGCCCACCACGGCAGGGGAAAAAGAAAGAAGAAGAAAG G G G A G A G A G A A GAA $A \operatorname{G} \operatorname{A} A A G A G C A G A A G G G G A A G A G G C C A G G A$ A GCAACGGAAAACAGAGGGGGGGAGGGGAGGGACBGAGCCGG GAGGAAAGGGCAAAGGAAGGGGCCAAGGAAAAAAGCAAAGAG $C \subset A A G G A A G G A A G G C A G A A C A G A G G A A C A G G G A G G G G G G G G G$ GAGAGGGGGGGGGAAGCGATAGATGAGGGAAAGAAAAAACAG GAGGGGAAAAAGCCGGAAAGGGAGAACCGGAAGGCAGAAGAG GAAGCAAGGAGGGAGGAGACCAAGGGAGAGCCGGGGAGCAGG A A A A A G G A T T A A A A G GAAAAGGGGGGGGAGAGGGGGAGAAA G G GAGAAGGAAAAAAAAAAGAGAGGAGCCAGGGAAAAGGAAAA $G G C A T A G G G G G G G G G G C C G G A A G G A A G G A A A A G G A A G G A A A A$
 C CAAAAGGAAGGGGAAAAGGCCAAAAAAGGAAGGCCGGAGAA G G G G A A A A A A A A A A A A A A A A A A C CAAAAGGGGGGAAAA G GAA G G A A G G A A A A A A A A G G A A A A C C G G G GCC G GAA G G C C C C G G G G C C G GAAAAAAGGGGGGGGAAAAGGCCAAAAAAAAGGGAAAGG A ACAA A GAGGAAGGGGAGCCGGAGGGAAAGCCGACAAAGGGG G A T T G G G G A A G G G G C C A A A A G A G A G G G G A A G G G G A G G G G G G G $G G A A A A A G G A G G A A G G A A G G A A G G C A G A A A A A A G G A G G G G T T$
 G G G G G G A A G G G G C C G G G G G A G G A A A A G G A A C C A A C C A A G G G G
 G G G GCCGGAGGAAAAAGGGGAAGGAAGGAGAAAGAAGGGGGG A GAGAGCGGAAAAAAACCAACCGGAGAAAAAAGGGGAAAAAA A A A A A A G G G G A A A A A G A A GAA $A$ G GAAAAAGGAAAGAAGAAAAA A A A G G GAA A G A G A GAAAA $A \operatorname{A} A A A A A A G A A G G G G G G G G A A G G A A$ A GAGCAGGGGGGGGAAAACAGGGAGGAAGAAGGGAAAGGGTT AAAAACGAAGATAAAGCCGGTAGGGGAAGGGAGGAAAGAGAG G G G A G G G G G G G GAA A A A A G GACAAAAAAAAGGAAAGGAAAAA G T TAAAACCGGAGAAATAAGAAGCCGGGGAAGGGGCCAACABA G GAGAGAAAAAAGGAACCGGAAAAAGGAAAAAGAAGAAAACAC AAACGGAAGAGAAGGAAAGGAAAGAAGAACAGTTGGAGAGAA AAAAGAAAGGGGAGGGAAAGAAAAAAAGAAGGAAAAGAAACC AACCGGACGAGGGAGGGACAGAAAAGCCGGACAGAAAAAAGG A A A G A G G A A G A G G A A G T T C C A A A G A A A A A A CA G G G A A A A G A G

 AGAGGAGAGAGACAAGACGAAGAAGAAGAGAGAAAAAAAGCC

CAACGAGGGGAGCCCCGGGGGAAAAAAAAAGGAGGAGAAGGA A A C C C C A A A A A A G G G G T T A A G G G G G GAAAACCAACCAAAA G G AA G GCCCCAACCGGAAAAAAGGAAGGAAAAGGAAGGGGGGGG AAAAGGGGGGAAACAAAAAAAAAAAAAAAAAAAAGGAACCGG AAGGAAGGCCAAAAAAGGAACCAAGGGGGGGGAAGGAAAACC G GCCGGGGAAAAGGGGGGCCGGCCATAAGGGGAAGGAAGAGA A G A A A G G A CAA A GAGAAGGGGAAGGGAGAAGGCCAACAAAGG AAAAAAGGAAGGCCGGGGGGAACCGGAAGGGGAAGGGGGGCC G G G G A A A A C C A A A A A A A GAAAAGGACGGCCAAAAA GAA GACC G G T TAACAGGAGGAGAGGGGAAACAGAAAACCAGGGGAAGAG GAACAAAGGAAGGGGAGGAGAGGAGGCCAGAGAAGGACAAAG A A G G G G G G A GCAAA A G A A A GAC G GACGGACAGAAGAGGAGAA A A G G A A A A G GCCGGACGGCCGAAAAAGGCCAAAACAGAAACC A A G G A A G G CA $A \operatorname{A} A A \operatorname{A} G \mathrm{G} G A A C C A G A G G G A A A C A G G G A G A G A G$ G GAAAGAGGGAAGGCCAAGGGGGAAAAGAAAAGAAGCAAAAA A A A A G GAA $A \operatorname{GA} A A A \operatorname{A} A A G G G G G C C T T G G G G G A G A G G A G G G G G$ A ACCAAAAAGAACAAAGGAGCAAACCCCCCGAGAGACCGGAG A A A CAA A G G G A A A A A A G G G G A G G G G G G G C C A A A G A G A G G G C C C CAAAAGAAACCGAGGGGGAGAGAGAAGAAACAAAAGAAGGA A A G A A G A A GAA $A \operatorname{G} G A A G G G G A G A A G G A A C C G G C C A A A A G G G G$ AAGGGGGGAAAAAAGGGGAACCAGGGGAGGAAAGAGGGGAGG A G G GCCGGAAAAGGGGAGAGAGAAGGGAGGGGGGGGGAAAGA G GCCCAGGGGGGGGAAAAGGGAACGGGGAACCCCAAG
GTTGGAAAAAAGGAAGAAACAGACAAAGGGGAAAGAAAAAG A A A A A A A ACCCCGGAAAAAAGGCCGGGGAACCCCAAGGEGAA G GCC C G G G G G G G G A G G A A G G G G C C G GAAA A A G A GAA A A A G G G A G G GAA A A G GCCGGAAAAAAAAGGCCAAAAGGCAAAACGGAG A G G G G G A A A G A A A G A A A G G GACA A A A G GAAAC G G G GAGAC CA A G G G G GAAAAAGCCGAGAAGGAGGGGAAAAGGCCGGCAGAGG $A C A G A A G G G A G G G G G G A G A G G A A A A G A G A G C G A G G G A A G G G G$ C GCCGAGGGGGAACATCAGAATAGAAATAAAAGBAAAACAGBG GAGGGGAGGAGGGGGAGGAGAAAGAACAGGGGGGACGGAGGG AAAAGGGGGGCGGCCCGGAAGGAAAAGGAAGGGGAACAAAGB A A G G A G A A C C A A G G A A G GCCGGGGAAGAGGAACAA G G CACA G G GA $A$ A A A $A$ G $A$ A A $A G G G G G A A A G G A A A A A A A G A G G A G A G G A C A G$ A G A C G A A G G G A G A A A A G A G G G G A G A A A A G A G G A G G GAAAA A $\mathcal{A}$ AAAAAAGGGGGGAGCCGGCCAAGGCCGGAGCCGGGGAAGGAA G GAA A G GAGGGGAGCCAAGGGGAGAGAAGGAAGGAAAAAGGG A A G GCCTTACACGAAAGGGAGGGGAAACAAGGGGAAAA GGGG GAA A A G G A GA G A G G A A A A A A A G GAGGCCGGGGAGGACA G GAA AAAAGAAGAAAAAAGGGGCCGGGGCCGAAGGAAAAAGAACAA GACCCCAAGGAAGACAAAGGGGAAGGAGGGGGGGGGGGAGAA G G G G G G G G G GCCGGAGGGGAAGAGCGCCAGAAAAGAGGAAG G G G A A A A G A A A G G G G A A A A G A A G GACAA G GAAAA AA G GAA G G G A A G GAA $A \operatorname{G} A A A A A A G A A G G G C C A A A A A A G G G G A A C C A A A A G G$ A A A G A GA G A A GACAGAAAGGGGAAGGAACAAGGGBAAACCBG GGGAACAGAGATAAGGAAAAAAGGAGGGGGCAGGAGAGAAAG A GAGAAAGCGACGACCGAGGGAACCACAGGAAACCCAAACAG AA $A \operatorname{GGGA} A A A A G G G A G A G A A G G A A A A G G A A G G A G G A A G A A G G$ A A A G G A G C G G A G G A G G G G G G A G A G A G C G G A G G A C A G G G A A G A
 CAAACCGAAAGGGACAAACCAAGGAAGGAAGGAGGGGGGGGG ACAAAGAAGCCAGAAAAAAGGGGGGAGAAGAAGGAAAGAAGA G GAAGGCCAAGGCCCCGGGGGGGGAAAAGGAAAAGAGGCACC GAAAGAAGGGCAAAGAAGGGAGAGAGCAAGGAAAAACAAGCC
 AA $A \operatorname{GGGAAACCTTGGCCCCGGAACCAAAAAAAAAGGAAATTGG}$ $G G A A G G G A A G A G G A A A A A G G G G G G A A A A G G G G C C G G G G G G G G$ AAAACCGGAGAGAGGGGAAGGAAGAGAAGGAAAAGAAAGGGG

G G G G G G G G A G G G A G A G T T G A A GAAGGGGGAGGAAAACAAAAA A A G A A GAAAAAAAAAAGGGGACCCCCGGAAGGAAAAGGAGAA C C G G G G A A A TA $A$ A GAACCGGGAGGCCCCGAGGGGCCAAAAGA A G G GAACAAAAAGAGGCCGGGAGGGAGAAAAAAAAAAAGGGA AC G G G GACGGCCGAAAAGACAAGGAGCCGGGGGGAAAAGGCC GAGGGGGGAAGGACGGAAGAGGAGCAACCCGGCCCCCCAGCA
 CAGAAAGAAGGAAGAGAAAGAAGAGGACAAAAAAAAGAGGAA GAGGGAGGAAAATAGGAAAGGGAGCCGGGGAACAAGGGGAAA CAGAAAGAAGGGGGGAGGCCACAACAGGCGAAGAAAAAGGGG AAGGAAAAGAAACAAGGAAAAAAAAAGAGAAAAAAAGAAA GA A A G G G A G A G A G A A G A G G G G G A A G G A A G G C C G A G G G G G G A A G G C C A GAAGGGACCCCGGGGAAAGAAAACAAAGGAGCCGAGGAG G G G G T T G GCCGGAGGAGGAAGGGAAAAACGGGAAAAAAAAAA AAAGCCACAGAAGGGGCCGGGAAGACGGGAAAGGGGAAAAGG CAGGCCAAGGAAAGAGCAAAAGGAAAGAAAGGCAGGGGAAAA A ACC G G G G G GAGACAAGGAGGAAAAGACGAGGACAAGA GAAA G G A A C C T A G G G GC C A G G G G G G G A A G G G G A G A A G G A A A A G G G G $C \subset G G A A G G A G G G G A A A G G T A A G G A A A A A A G A G A A A A A G G G A G$
 G GAGGGGGAAGGAAGGACGGAGAAGGGAAAAAGGGGCCGACC A GACA $A$ AAAAAAAAAGGAAAAGGAGATAAAGACGAGGGGAAAA $G G A C A A G G G A A C G A G G C A G A A G A G G G C C G A G G A A T X C C B G A A$ G G G GAACCGGGGACAAAGCAAAGGAAGGAAAAAAAAGGGGTT G G G G CAG G G G A A G GCCACAGAAAACCGAGAGGGAAGAAAGAG AGAATTAGAAGGGACCAGAAAAGGAGAGCCAAGGGGGGAACA AAAACGGGGGAAGACAAAAGGACAAAAAGGAAGGGGAAAGAC CACCAAGGGGGGAGGGAGCCAGGGGGGAAGGAGGAGGGAAAA AAACGAGAACAAAAAGAAGGAAGAAGAAGACCGGAAGAAAAA AAGGAAAAGGACGGAAGAGGGGTAGGAAGAAGGACCGAAGAA
 AGAGAAGGAACCCATACCGGGGAAGGATCACCCCAAAGGGCC A A GAA A G GAGAGAAAAGGTAAAAAGGAAGGGGAAAAAAGGAA G G A A A A A A C C G GAACCAGGAAAAAGGAAGGAGAACAGGAGAG G GAG $A \operatorname{G}$ GAAAAAAGGAAAGCAGGGGAAAAGGGGAA GGGAAA G G
 G GAACAGAAGAGGGAGGGGGAAAAAAAGGAGGGGGGGGAATT G GAAATGGAGGGAAGGAAAAAAAAGGAACCCAAAAGAGACAA GAGGAACCGGAAAATTAAAAGAATTAACAGAAAAGGGBAAGG A G G A A A A G A G A A C G G G TACCGGGGCCAGTACCGGAAAAGGAG $G G A A G A A A G A G G A A A C G G A A G A C C A A G A A A A A G A A G A G G G G G$ G GAACCAGAAGACAAGGGAAAAAAGAAAAGGGGGGAAACCCG G G G GCGGAGAAGGACCAAGGGGGGAGGGAAAAGGGGAAAAGA
 C CAACCGAAAAAAAAAAGAAAAGGGGAAAAAAAACCABAGGG
 CCAGCCGAGGAAAAAAGGAAGGAAAAGGAAAAGGAAAAGAAA G GACGAGGAAGGGGAGGCAAGGAAGACCAGGGGGCACCAGAA G G GAACAGAAGGAAAAAGGGGGAAAAGGGAGGAGGGAAGGGG G G G G G G G G A A G G T T A A G G A A G G G G A A A G C C A A G G G G C C G G A A G G G GAGACGGGGAACCAACCAAGAAGAAAAACCCAAAGAATT GAAAAAGGCAGAAAAGGAGGAGGGAAAAAAGAAAGGGGAGGG A GAGAA $A \operatorname{G} G A \operatorname{G} G A A A A A A A A C A A A A G G G G A G A A G G C C G A A A G A$ A GAGGAAACAGGAAAACCGACGGGAGAAAGAAGGGGAGGAAA G GAGCCAAGGTTGGAAAAAAAACCAGAGAGGGCAGGAAAACA A A A A A A A G A G G G A A A A A A G GAATACCAACCGGTTGGAAGGCC G G G A G A A A G G A A C C A A GAGGGGGGAAAAAAAGAAAAAGAGAA
 AAGGAAAAGGAAAAAAAACCAGAGGGGGAGAACAAGAGAGAG

AGCACAGGAAGGAGAAGAAGGCCAAGGAGAGGAGGGAACAAA A A A GAGACAAGAGGCAACAAAACCGGGGACAGACCAGACAAG $A G C C A G A G G G A A A G A C G A A G C C G G G G G G A G G G A G G A G G A A G G$
 G GAA A A A A G G G G G G G G G GAAAA $A \operatorname{A} G A A A A A A A A G A A A C A G G G G$ C C A A G A A A A A A A A G G A G G G A A G G G G G A A G GCCA GA G C G C A G A GAGGACGAAAAAAGCCGAGGGCAGGACGAGAGAGAGAAAGAA G GAGGGAGGCAGGGAGAAAGCAAAAACCAAAAGGGGCCAGAG GAGGAAAAATGAAAAACCGGAAGAAAGAGAGGCAAAGAGAAA GAGAAAACCAAACAAAAGAAGGAAAAGGAACCCCAAGGAACA A GCCAAAGAACAAAAAAAAGCCGGAAAAAAGGCCAAGAAGCC $G G C A G A A A G G A C A G C C A A A A G G A C A G A A G G G G G G A A G G A G G A$ A GAGGAAGAATAAGGGAAGAAAAAAAAACCAAGGAAGGCCGG $G G C C G G A G C G G G G G G A A G C C G G A G A A G G A A C C A A A C A A A C G A$ A A A A G G GAA A G G G G C C G G A A A A C A G GAAGGGGAATTGAAAAA $C \subset C C G G C C A G G A G G G A A C C A G A G G A A A A A A G G A A A A A A A A G A$ A GAGTTGAAAAAGGGAAAGGGGGAAAAGGGCAGGCCAGAAAA G G G G G G G G G GCCGGAACCAAACGGTAGGGAGGCCAGAAGAAA ACGGGAGAAGAAGGGGGGAAAAAACCGGAAAAGGAAAAAAAA GAGAAGAAATCCAAGAAAAAAAGGGGAAAAACATGAAACCGG AAGAAAGAAAAAAGGGCCCCGGATGGAACACAAAGGGGGCAG G GAA A ACGAGCCCCAGAAAGGGGGGGGAAAGGAAACAAGAAT GAGGGGAAGAAGGAAGGAAAAGGGAAAGAAATGGGAG
A A A G G G A G A GCGGAAGAAAGGGGGGGGAACCGGGGAACAAA AGCCAAAGCCGACCAAGGGGCAAGAGAACACAGAGGGGAAGG G G GAA $A \operatorname{G} G A A A C A G A G G A A A G G A A G G A A A A A A G G A A G A A A G G$ G GACAAGGGGAAAAAGACGAGGCCAAAAGGACGGGAAATTGG A GCGAAGGAAAAAACCGGAACCAAGGGGGACCAAAACCAATT A A A A A CAGAAA GAA GAGGAACAAAAAAAGGAAAAGGAGAAGG $G G G A A A G G A A A A G G A A G G G A A A A A G G G G A G G G G A G A G A A G G G$ G GCCCAAGGGAGAACACCGGGGACAGGAAGAGGAGGGGAGAA AAAAGGAAAAGGAAGGAAGGGGGGAAGGAGAGTTAAGAAAAG
 G GAGGCGGCCAAAGGGAGAGACAAGGGGAGAAGGGGGAAGAG GACGGAAAGGGGCAAAGGAGAAAAGAACAGGAAAAGAGAAGB
 G G G G G GAAAAGGGGCCGGGGAAGGGGAAGGGGGGAAAAACCC A A G G G GAA A G G GCCAAGGTTGGAAGGAATTGGTTCCGGAAGA A A G GAA $A \operatorname{GCC} C \mathrm{C}$ GAAGGGGAAAAGGAAAAAAAAGGAAGGGGCC A A G G A A G G A A $\mathcal{A} G G G G G G G G G G G A A G G C C A A A A A A T T A A G G A A$ GAGGAAAAAAGGAAGAAAGGGAGGGGGGCGGGACTTGAGGGG G G A G A G A A C G G A G G C C G GAGGGCCGGAACCGGGGAAGAAAAA AAGAGGCCGAGAAAAAGAAACAGGAAATCCAAGGAACGAAAA G GAGAGGAACAGAAGGGGCCAAGGGAAGAGAAGAAAAAGACC
 GACCACAAAAAGGGAAAAAGAGAACCAAAAAAGGGGCCAAGAG AAAAGGAAAAGGGGAACCAAGGAAGGGGGGGGAAAAGGGGGG A A A A A A G G A GAA $A \operatorname{GAA} A C A A G G G A C C G G A A G G A C A G C C A G G G$ GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAAACAAGA C CAA $\operatorname{CiGCCGAAACGGAAAAGACAAAAGGAAAACCGGGGGGGA}$
 AAAGGAGGCCAACCGGAGGGGGAGAACCGAGGGGGAGAGGGC A G A G C A A G A G A A C A G G A A A A A A A G G G A GAA GAACCCCC G GAA $C C G A A A A G A G G A A A G G G G A A G G A A G G G G G G A A A G A A C C A G G A$ $A \subset A G G G G G A A A A G G G G A A A A A G G A G A G G G G C A G A G A A G A G A G$ $A G C C G A A G G A G G G G G G A A A A G G G G G G A A G G A A A A G G A A A A A A$ A A G G G GAA A A A A GAAAACCCGAGGGGGAGGAGAGCACAAGAC A A A G A G G A G G G G A A G A A A G G G G G G A A G G A A G G A A G A G G A A G A $C C G A G A A A G A G A G G A C G G A A G A A A G G A C G G A G A A A A A A A A G G$

GAGAACGGGGGGGAAAGAAGAAACAAGAAGACAAGAAGAGGA GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G C \subset G G A A C G G A G G G G A G G G A G A C A G A A G G G G G A G G$ G GAGAGGGGGAAGGAGGGCCAAAAAAAAAAAAGGGAAACCGA AAGGAAAGAAGGGGAACCACAGGAGAGGAAGGCCAAAACCAA G GAGGAACGGACAGGGAAGAGGAAGGAAAGCCGGGAGAAAAAA C C G G G GAGAGAAGAAAGGTTGGAAAAGGAAAAAACCAAAGAA AAAGGGCCCCGGAAAAAGAAAGAGGGCAGGGACCAAAAAAAG GAGGAGAGGGAAAGGAGGAAAAGGAGAGAAGAGGGGGGAAGAG $G G A A G A A A G G A A A A G G G G A A A G A A A G A A A A A G G C G G G G A G A A$ AAGGAGGGGGAACCGGAAAAGGGGAAGGCCAAAAGGGGCCAA
 G G G G G G G G A A A A A A A A A A G G G GAA $A \operatorname{AGGGGGAAAACCGGCCCC}$ AAAAAAGGGGGAAGCAAGAGGGAAAAAAAAAGAGGGAACCAG AAAAAGGGAAGGGGCCAAAAGGAAAAAAAAAAAAAAAACAGG A A G G A A G G G G G G G G A G G G G G GAGGAGGGCAAGC GAGGGCAAA AACCAAGGAAGGAAAAGGGGAAAGAACCAAGGACAAAAAAAA
 GAAACCAAAAAAGGCCGGCCAGGAAGAAGGAGGAAAGAGGGA A G G G GACCAAAGAGAAGAGACCAAAAGAGGAGGAAAAGAGAC A A A A A A G A GAGAA $A$ A A A G GAGAGACACGGAAGAGGGGGAAAC G AGAGACAGGAAAAAAGGGGGAAAGGACAGGAAGGAGGGAAAA
 G GAGGGACAGCAGGAAAAAAAAGGAACCAAAAAAAGAGAGAA G G G G G G A A A A C C A C G G A A G G G G G G A A A A A A C C T T A A G G C CA A

 A A TAA A A G G G G GAACCAAAGGGAACCAAGGAAAAAAAAAAAA A A A A A A A A G GAAGGAAGGAAAACCGGGGAAAACCGGCAAAGB G GAA A G G G G GAAAAAAGGGGAAAAGGAAGGGGAAGGGAAAGAG AAGGTTGGAAAAAAGGGGAAGGAGAGGGATGACCAACCGCCC A A A A A A G G G G G G A G A G A A A A A A A GAGAAAGGAGGGCCAAAAA CCAGAAGGAGGAGGAAAAAGAGGAAGAGAGGGAGGGAAAAGA AACAAAAACCGGGAACGGAAAACCAAAAGGCCCCGCGACCGG A GAAAAAAAAGGGGGGCCAAAAAAGGAAGGAAAAGGGAGGCA G GCC C G A A A GAGGGGGGGGGAAAAGGAAAAGAAGAAGAAAAA $G G G A G G G A G G A A A A A A A A A A G A G G A G C C A C G A A G G G G G A G A A$ $A G C G A A G G G G A G A C A G A A A A A G A G C G A A C A G G A A C C A A G G G G$ A G G GAAAAAGGGCCAAAAAAAAGAAACAAAGGAAAAGGAAAA
 G G G A A A G G G A G A G G G A G G G G G G A A $\mathcal{A} G G G G A G A A A A G A A A A A G$ GAGGGGAGCCAGAGGGAAGAAAAAGGAAGAGAAGGACAAGAG $A G G A G A G G G G G G G G G G A G G A G A A T G A A G A C G A G G G G G G G G G G$ AACCAAAAGGAAGGAAGGACGGACGGAAAAGGGGGGAAAAAA G GAGCCAACAACGGAAGGGGCAGGAAAAGAAACCBAAGAGAG GAAAATGGAAGGGAAGAAGGAAGGAGGAGGGGGGACCAAAAG A A C A $\mathcal{A} G A G G G G G G A G G G G G G G G G G A G A A A G A G C C B A A G G G C C$ $G G A A A G A G G G A A A A G G A G G A G G A G G G G G A G G A A C A G C A G G G A$ GAA A G G A A G GAGGGGGGGGGTTAAGGAAAACCAAGAAAGGGG AAAGGGGAAGGAGGAAGAAAAGGAAAAGAAGGAAAGAAACAT GATTGGCCAGAAAAAAAGAAGAAAAAGGAAAGGGGGAAAAAA A A G G G G G G G G A G G A C A A A A A A A C A G G G G C C G GAACCGGGGTT AAAGGGAAAACCAAGACCAAGGGGAAAACAAGAAGGAAGACA A GAA $A \operatorname{GAAAAGAAAAGGCCACAACCAAAAGGTAGGAAAGGGAA}$ GGCAAAAACGGGGGAACAAGGGGGATAAACAAACGGGAACAG GAAAGGGGAGCAGGGGCAAGGAAGACGGGGGGAACAACAGCC A GAGAAAACCGGAAAAGGGGGGGGAAGGGAGATTGGGGGGGA
 A A G GAACAAGGGAGGAAGGAGAGAAAAAGGAACCGGGAAAGAC $C \subset A A C C A G A G A A A A A A A A C A G G A A A A C C G G G G G G A A G G G G G C$

A GACGGCAAAACGGGGGGAAAAGGGAAAGAGGGGAAAAGGAG A A G G G G G A G G A A A G G G A G G A A C A G G G GA GACAA A A A G G C C G G A A A G A A G G A A G GCCAGAAGAAAAGATAAAAAGAGCCGGGGAG CAGGGGGAAAAAGAAGCCAGAAAGGAGGAAGGGGGGAAAACC $G C C A C C G G G G A G A G G G G G A A A G A A A G A G C C A A A A G A G A A A G A$ A G G G G A G G A A A A G G A A G G C A G G G A A GAC $\mathcal{A} G G G A G C A G G G G G G$ AACCGCAAAGGGAAGAGGAAAAGGGAGAGGAAGGAGCAAGAG A A G G A A G A A A A A A A A A G G G G G G G G GAGGAAACAA G GAAAGGGG ACGAAAGGCCGGAAGGAAAAAAACAAGGGGAAAAGAAAGGGG TTAAAAAACAGACAACGAAAACGAAAGGGGGAGACAGGAGGA C CAA $A \operatorname{GA} A A A G G A A A A A T A C A C G G A G A G G G G G A A G G G G A A G A$ C C G A A A C CACAAAC G GAAAACCAACGGAGGAAGGGGGGGGGA C C A A A A A A A A G GCA $\mathrm{A} A \mathrm{~A} A \mathrm{~T} A \mathrm{G} G \mathrm{GGGGGGGGAAAAGGAAGGAAAA}$ GACAGAAACCGAGAAAGGGGGGAAGAAAGGGGGGGAGAAGAA AAAACCAAGGACAACAAAAGAGCCAAGGCCAAGGCCGGGGAA AC GAGGGGAAGGCCAAAAAAAAAAAGAAGAGGGAGGGGACAA
 G G A A A G G A A GAGAGAAGGAGAAGCGAAAGGGAGAGGACAAGG G G GAAAGGGGAGGAAAGAAGGGACTTAAGAAAAAGAAAAAAG GA GAAAAAAAGGAAACCCGAAACCCAGGAAAAGBAGGGAGAG $C A G G G G G G A A G G G G A A G G A A A A G G A A G G C C A A C C A A G G G G G G$ G GAACCGAAAGGGGCAGGGGCCAAAACCGGCCCCAAAAAAAA G G G G G G A A C C G G A T A C G GCC GAAGAGAGAAGAA G G G A
A A A G G G G A A A A A A C C G GAGGGGGGAGGAGAAAGGGAGCCAG GAAGGAGAAGGACGAGAAGGAAAAAAGGAAGGGGCAAACCBG A A G GAGGAAGGGGGAAGAGGGGAGAAGGAACCGGGGGAAGAA G GAAAAAAAAGGAAGGGGAGGGACCAGGGAGAGGGACAAACAC A A A G A A T T G A A A A A G G A A G G G G G A A A G G A C G G A G G G A A G G A A A A A A A A G G G G G G A G A G G G G G G G A C G A A G G G A G G A G GA G A CA
 G GAGCCGAGGAACAGGGGGAAAAGGAAGACCCAAGGGGAAAA AACCAAAAGGAAAAGGGGGGGAAGAGGGGAAGAGGGGCAGGA G GAA A GAA $A \operatorname{Ag} \operatorname{A} A A G A G G A G G G G C A G G A A A A A C A C A G A A G G B A$ G G A A G G G G A A G G G G G G A A A A G G A A G G A G G G G G G A A G G A A G C G G GAA $A \operatorname{G}$ GAAAAGAAAGGAAGGAAAAAAAAGGAAAAGAACGGAG A A G A A A A C G G G A A G C A A G A A G G A A A A G G G G G G A A C C G G G G G G C C G GAA $A \operatorname{GAA} C A A A G G A G A G A A G A A A G G G A A A A A G A A A A A G G$ $C C A A C C G G G G A G T T G G G A G G G G C A A G A G G A G G A G G G A G A G A A$ G G G G G G C A G G G G G G G G A A A A C C G GAAAACC GAAAAA A GAAAA A A A A G GAA $A \operatorname{GA} A A A G C G G A A A A G G A G G G A G G G A A A G G G A A G G$ $G G C C C C A A A A C C G G A A A G A A A A G G C C A A G G A G C C G G A A A G A G$ A G G G G G A A G A A A G G A G A G A A G G C C G G A G G GAC G G G G G A A A A G $C \subset A G A G A G G A A C G G G A T T A A A A G G G G G G C C G G A A G G A A G G G G$ A GAGGAAACCCCGAGGGAGGGAGGGGAGGGAAGGCCGAGGGG C C C C G GAA G GCCGGAAAAGGCCGGAAAAAAGGGGAAAACCCC A A G G A A A A A A A A C C A A A A A A G G G G A A C C A A A A G GAA G G G G G G A A A A C C G G A A A A G G G G G G A A A A G G A A G G C C A A A A G G A A C C G G AA G GAAGGCCCCGGAAGGAAAAGGGGAAAAGGAAGGAAAAAA G G G GAAAACCGGAAAAGGAACCAACCGGCCAAGGGGGGAAGA
 G G G G A A A G G G G G A C G G A A A G A A C C G G G G G G G G A G G G A G G G G G GAGGGGGAAAAAAAAAAAAAAAAAAGAGAAAGCCABAAGGGG G G GAGAACAAAAAAACGAAAAAAACCAGAAAAAAAGAAGGGG $C \subset A A G G A G A G A A C C A A A A G G A G G G G A G A A A A G G G A A A A G G A G$ A G G GAGGGTTAAAGAAAGGGAGGACCAAGGGGGGAAAAAAAA $G G A A A A G G G G A A A A C A A A G A G G A A G G A A G G A G A A A A G G A G A A$ A G G G GCGAGGAGAGGGCCGGCAGGAGGGAAGGAACCCCGGGG G G G G G A C C A A A A G G A A G G G G A A G GAGAAGAA A A A A G A G A G A A G G G G GAAGCCAAAAGAGGGGAAAGAAGGAAGAAAGGAAGAAA

G GAA A A G G A GAAGGGAACAGGGAGAAAGAGAGAAAAACGAGC G GAGAGGAGAGAGGGGAACCAAGGCCAAAAAAGGAAAACAAA G GCC C G G G A G G GAAAGGGCAGGAAGAAAAGAGAAGGCCAAA T $C \subset A G A G C A G G G G G A G A G G G A A A G G G G A A G G A A A A C C G G A A A G$ G G G GCACCAAGAACAAGAGGAAAGCCGGCCGGGAAAGGXACC A GAGAAAGAAAGGAAACCGGGGAAAACGACCCGACCAAAGCC A A A A G GCCAA G GAGAGAGAGAGGGGGCCCCAAAAAAAGGGGG C CAGAAAAAAGGAAAAAAGAGGGGCCAAGGAGAGGAGAGGGA TAAAAAAAAAAAGGGGAAAAAAGGAAGACCGGAAAAGGGGGG AAAGAAGACCGAAACCAAAAACAACAAAAGGAGGGGGGAAAG G GAGGGCCACAAAAGGAAAAGAGAAACAAGGGAGGGGAAAAA GGCCAACAAAAGGAAAAAAAGGCCAGGGAAAAAAGAAACAAA A A G G A A A G G G G G G G A A C C G G A A G G A G G G A A G G G G G A C C A G G G AC GAGGGAGACCACGACCCCAAAAGGGGAAAACCAAAGAAAA GAAAAAAAGGGGGGGGAACCCCAAAAGGAAGGAAGAAAAAGG A GAA A G G GAGAGAGAAAATTGGGGGACAAAAAGAAGAAAACC GAGGAAAGAGGGAATTAAAAAAGGAAAACCAGGGCCAACAAA $A C A G G A A G A A A A G G G G A A A A A A C C G G G G A A A A G A C A G A C C B G$ GACCAAAGGGGAGGAGAAGGGGAGGGGGACGGAAAAGAAAGB A G A A A GA $\operatorname{A} A A A \operatorname{A} A A A G G G G G G A A A A C C G G G G C C G A A C A A A A A$ ACGAGGCCACGGAGAACCGAGGGGGGAAGGGCAGGGGAAGAG A A G G A A G G A G G G G C A G G G G G A A GAGGGGC CAA $\mathcal{A} G A A C C G G G G$ G G A A G GCCAAGGGGCCAAGGGGGATAAACCAGCAAAGGCAGG A A A A A A C G A A G G G G A A A A C CAAAAAAAGGGAAAAAAGACCCC C C G A C A A A G G A A A A G G A A G G G G A A A A G G G G A G G A A A C C G A A C A A G GACGGGAGACCGGAGACAAGGAAGGCCGGAAGAGAAAGG AAGGCCGGAACCGGGGAAAACCGGGGAGGCAGAAGACCAAAA A A A A G A A $\mathcal{A} G G G G G G G A A G G A G A G G A A A G G A A A A G T T C A A A G A$ G G G G A C A A C C A A A A G GAAAA A G G GAAAAAAGGA GAA G G G GAC A G GAGAGGGAAAAAAAAAACGGACGGGGGGATAAGGAAAACC
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 G GAAAATTAAGGAAGGAAGGAAAAAAAAAAGGGGGGTTGAAA T T G G A A G G G G C C A A G G G G G G A A A A A A A A C C G G G G A A G G C C A A G GAAAAGGAAAAGGCCAAAAAACCGGCCAAAAAAAAAAAACC $C \subset G G A A G G G G A A G G G G T T G A A A A A A A G G G G C C G G A G C A G G A G$ G GAAGGAAGGAGGGAAAAACAAAAGAGGGGCCAAGGBACGGA A A A A A A GAGGGACCGGAGAAGGCAGGGGAAAAGAGGGAAA G G G G A G G C A G G A A A C C G A G G C G G G G A G G A A C C G G G G G A A G A A A $G$ G G G GAAAGCACGAAGGGGGGGGCCACGAAACCCAGGGAAAAG

GACCGGGACCGGCCCCGGGGGGAAGGGGCCCCCCGGGGAAGG A A G G A A C C A A A A G G A A GAGGAAGGGGGGAAAAGGAA G G G G G A A
 AAAAGGCAAAGGAGGGAAGGAGGGAGGGGGAAGAGGGGAAAG GAGGGAAAAACCAAAAAAGGGGAGACAGAAGGAGGAAAGAAG G GAGAAGGAAAAAACCGGGGAAAAGGGGGGGGGGAAAAAACA A G G A G GCCAA G G G G A A C C G A G G A G G G A A G G GAAAA G G GCCC C $G G A G A G A C G G C A A A A A G G G G A A G G G G G G G G A A A A A A A A C C G G$ GAAAGGCAGGCCAGAGAAGAGGTTGGGGGGGGAAGGCCGGGG AAAAAGCCGGAAAACCACAGGACCGGGGAAGAGGGGCAAGAA GAGGCCAGAACAAGGGGGGAGGGGCCGAAAAAAAAAGAGAGA AACACAGGGAAGAGAAAAGGGGGGGGAAAAAAGGCCGAAACC T TAGAGAAGAGAAAGGCCGGACAAGAGGCCCAGAACGGGGCC G G G G G GAACCGGAAGGAAGGAAGGAAAACCAAAAACAA GGGG G G G G A A A A G G G G G G G G G G G G A A A A A A C C A A G GA $A$ A $G A G G A A G$ ACGAAGAACAGGGGAAGGAAAAGAAAAGGGAAAAGAAAGAAA C C G G G GAA $A \operatorname{GA} A A A C C G G G A G G G A A G A A G G A A A A G A A A A G A A$ AAAAAGGGGGGGGAAACAGAAAAGGACAAAAGAAGACCGGAAA AAGGAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAAAAAAGG C C G G A A A A A A A A G G A A G G A A A A A A A A A A A ATTGGG GAAAAAA AACCAAGGAAGGAAAAAAAAAAAACCGGAAAAGGAAAAAAAA A ACCAAGGAAAAGGGGGGGGGGAACCGGCCGGAAAAAACAAA A ACCAACCAAAAAAGGGGCCCCAAGGAAGGAACCGGA
A G G A A G G G GCCAAAAAAAAAGGGGAAGGGGGGAAAAGGAAAA G G A A G G G G G G A A G G G GCCGGCCGGAAGGAAAAGGAAAAAA G $\mathcal{A} A$ $C C C C A A A A G G G G G G G G A A C C G G A A C C G G G G A A G G A A G G A A G G$ AAAAGGAAAACCGGAAAAGGGGCCAAAAGGAAGGAAAACCCC A A A A A A $\operatorname{A} G A A G G G G G G G G A A G G G G G G C C A G A G A G A A A A G G A A$ C CAGCGCCGGGGAAAAAAGGGGCCGGGAGGGGAGCAGAAAGG AAAGGGAAGGCAAAGAAAGGCCAGGACCGGGGAAGGAACACC A ACCAAGGCCGAGAAAAAGGGGGGAGGGAAAGGAAAGACAAC ACAAGAAGCCGGCCAGGGCCAGGAAAGAGACCAAAGAAAGAG AAAGACAAAACGAAAGGAGAAAGGAAGGGGAAGAGGAGAATA
 GACCAAAGAGAAAAGGGGGGGGGGAGAACCATAACCAAAACC A A G G A G G A A G A GAGAGGGAAAGAACAGGAAGGGAAGAAAAAA
 AAGGCCAGGGAAAAAAGGGGGGAAAACAAGCCCAAAAAGAAA C C C C A C A G A G A A G G G G G G A A C C G G G G A A C C A A A A G A G G G G G A A A A A G G G G G G A A A A A G C CA $A C C G G G G A A G G G G G G A G A G A A G B$ GAAGAAAAAAAGAAGGAAAGGGAGGGGGGGGGAAGGCABCAA G G A TAA A A A A A A G GCCAAAAAAAAAAAAGAGAAAGGAGAAGG GAGGGAAAAGAGAAGGGAAACCGGCAGAAGGAGAAGGGGGAG A A G G A A G G A A G G G G A A A A T TAGCAAACGGGAAAAAAAAAA GA GAGGGGACGGGAGAAGGAAAGGCCAGGAAGCCGGAAGGAGAA
 G G G G G A G G G G A G G A G G G A G A A C A G G G G G G G A G G G G G G G G G G G G G G G A A G G G G G GACAGCCGAGAAGCCGGAAAAGGGGAACACA A G G G G G G G A A G G A G A G G G A G G A G G G G G A A G C C A A A G G G G G G G
 G G G A A A A T A A A A C C G G GAGAAAGGGGAGCCGGAAGAAAAAAA G G G GAACAAGAGAAAAAAAAAAAAAAGGAAAAAAGCAGAGAA C C G G C C G G G G G A A A G G G G G G A A G G A A G G G A G GCCCCAAAAC C C C A G G G G G GAGGAAGGGAAGAAAAAAGAGGAAAAAAGGACAA A A GACCGGGGCCACGGGGGGTAAACCAAGGAAGGAGGGACAA G GAGAAAGAGGGGACAGAGGAGGGGAGGAAAAAACCGGAGAG A A A GCCGAGGAAGGCCGGAAGGGGCCGGCCGAAAGGAAAAAA C C G G C C A A C CAACCAG GATAAAGGCCGAAA GAAA G GA G G G G G G $G G A G G G A G T T A A C C G G A G G G G G G G G G A G G G G G G G G A A A G A A T$

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 GAAGAGGGAAGGGAGGACGAGGCCCCGGAGAAAAAAAAGGGG GGCCGGAAGGAAACGAAGAAACGGGGAGAGAAAACCGGAAGG G GAAAAGGAGACCCGGGGCCAAAGGGGGAGAAAGCCGGAAAC A A A A G G A A G G G A A C G G A G A A G G A G A A G G G G C A A A A A G G G G G A AAGGAAGGAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAAC C C A GAA A A GAAAGGGGGGAAGAGAGGAAGGGAAAAAGGAAAA CAAAGGAAGGCCCCGGAGAGAAGGAGAGGGGGAGAACCAAGA A G G G A G G A G G G G A G G G A GAGGGGGGGAGGGGGCCAGCAAAAA G GAA $A$ A $\operatorname{A} G A A G A G G A A G G A G A G A G A C A A G G A A G G C C A A G G A G$ $A C A G G A G A G G A A G G A G A C A G A A G G C C A G G G C C G G A A G G A A A G$ G G GAGAAAAAAGGGAACCGAAAAAAAAAACAAGGCCGGAC GA A A G G G G G A GA G A A A A G A C G G G G A A A A A A A G G G G G G G A A C C A A AAAAGAAGGAAAGGAGAATAGAGAGGGGAAAAGGAAAAGGCA A G G GAA A GAAGAAACAAACCAAGAAAGGAAGGAAGAAACACC
 A A GAA A A G A G G G G G A A A A G G C C A A A GAAC GACAA G G G GA GA G CAAAAGAGGAAGGAGAGATTGGAGAAAAAAAAAAGGAGAAGAG G GAGAACCAAAGCCAAGAAAAAAGCCCCGGCCCAGGAAGAAA G G G GAAAAGGGGGGAGAGGGGAAAAACCGGAAGGGAGGAGAA A A A G G A C A GAAAGGAAAAAAGGACAACGGGGGAGGACACCBG G G G G A A G A C A G GAGTAAAAAAAAAAAAACCAAACAGCCAAAG AGGGTACCAGGAAAAAAAAGAGGACGAGAGGAGGGGAAAATT A A A A A A G G A A G GAA $A \operatorname{GAAAAGAAAAGGGGCAGACCAAAAGGAA}$ G GAACCGGAAGGGGGGAACCGGAAGGAAAAGGAAGGGGAAGG G G G G A A G G G GCCGGAAGGGGAAAACCAAAAAAAAGGGAAAA G $A G G G G A A A G A G G A A A G A A G G A A G G A A G G G A G G G G G G C C A A A C$ GAGGAGCCGGAGAGAAGGGGAGGGAAAAAAAAAAGGAAAAAG G G G A A GAGGGCCAAGGCCGGAAAGGACAGGAGAAGAAAAAAA $C C G G A A T T A A G G A A A A A A G G A A G G G G G G A A A A A A G G G G A A G G$ G GAAAAGGGGAAAACCGGAACCAAGGCCAGCAAAAGACAAAA GAGGGAAGGGGGGGAAGGGAAGAAGGCCGGAGGGGGGGAGGG A A G G A T G G G G G A G G G G G GCAGACCCCAAGGAGAAAACC G GAA $G G G G G A G A A A A A A A G A A G A G G A A G A G A G G G A G G A G G A G A A A A$ A GAGAAAAGGAAAACCGGGGAACAGAAAGGAGGCAGGGAAAA G GAAAGCCAAGAAAGAAAGAAGAAGGCCGAGAAAGAAAACAA G G A A C A G A G G G G G G G G G G G G G A G A C C G C G G G G A A G G A G A A G A AAAGGGAAACGGGAAACGAAGGGGAGGAAGGGAAAAAAAAAG A A A A G GCCCAAGAAAAAGAGGAGGGGGAGAGAAAGGAGAGCA ACGAGAAAAAAAGACCAAAGGGAAGAGAAAAGACACATAAAG GAACGAGGGAAGAAAAGGAAAAAAAGGGGATAAAAAGGAGGA GACAGAAAGGGGGGGGAAAAAACAGAAAGGAAAAAGAAATCC ACAGGGCACAACCCAGCCGGGGGGGAACGGAAGAGAAGAGCA
 $A G A G G G A A A G G A A G G G G G A A A A G G G G G G A A G G G G C A A G G G G G$ G G G G C C G A G G G A A G A A G G A A G G G G A G G G A G G G A T C C G G G A G G GAGGCAAACCACGGAAAGAAGGGGCCAACCAAGGGGGGGAAA G GAAGGCAAGAGGAGACAGAGAGAAGGGAACAAGAGGAAAAG
 $G G A A A A G G C C C A A A G G A A G G A A C C A G A A A A A A G G C C A A A C G G$ G G G G A A G G C C A A G G G A G G G G G G G A C C G G G G G G A A G G G G C A A A G G G GAA AACAAACCGGGGAAGGAAAAAAGACCCAAGAGGGAA

G GACGGGGAAGGAAGGAAGGGGGGGGAAGGGGAAAAGGGGGG A G G A T T C A G GAAACGGAAAGCCAGAAAAAAGAA GAAAGAGGG AAAAAACCAGAAGAGGCCGGCAGGAAGAGACCAAAGAAACAA GAAGGGGGGGAAGGGGGGGGCCGGAAAAGGAGGGAGAAAAGA AAGGAACACAAACCAGAGAAGGAGCCAAGGGGGGGGGGGAAG
 G G G G A A G G G G A A G G G G G G G A A A A GC G G A C A A A G G GA G G GA G A A G CA $\operatorname{C} G A G G A A T C C A A G A G G A G G A A A A G G G A G G G G A A A G G G G$ A G G A G A G G G GCCAAAACAGGGGAAAGAACCAAAGAAAGEGAG AAGGAAGGAGGGGGAACAAAAAAGGAGAGGAAAAGGAGGGAA GAAAGGACAAGGGGCAATAAAGGCAAAACAAGGGGACAGAAA A G GAACGATAAGAGAGAAAAAAGAAACCAAGGAAGGCAGGAA G G A G A A G G A A G G G G G G G A A A A A A A A A A G GAA A G G GAAA A A C A G G G G A G G G A A A A A A A A C C A A G G G G A A TAAAAAAA AAAAA A C C
 G GAA A A G G GAAAGGGGCCGGCCGGGGAAGGCCAACCGGGGGG G GAAAA $A \operatorname{A} A A A A A G A A C A A A C C A A A A G G G G G G G G G A A A G G G G$ G G G G G G A A G GAA $A \operatorname{GAA} A G A A A A G G A A A A A A A A G G G G A A G G B A$ $G G G A A G A A G G C C G G G A A A A A G G A A G G A G G G A A A A G G G G A A G A$ G G G G G G A A GAGGACACCCGAGAGAGAAACCGGAAGGAACAAG AAGGAAGGAAGAGGGAAAGGCCGAAAAGGGCAAAAAAGAGGA A GAGGAACGGAAAGGGAGGGGGCCGACAGAAGGAAGCCAAGA

G G G A A $\mathcal{A} G G G G G A G A C G G G G A A G G G G G G G G G G A G G G A A G A A G$
 A G G G GAGGACAACCCCAAAAAGGGGGAAACAGAGGGAAAAGG G G GAACAGGGAAAGAAGAAAAAGAAGAGGACCGGAAAAGGAA G G G G G A G G G A G G G A C C G G A C A G G A G G A A G A A A G A G A G G C A G G A A G G A A A A G GAA $A \operatorname{AGGGAAACAAAAGGCCGAAAGGGAGGGGAG}$ CACCAAAAAACAGGAGGGGGAAGATAAGAAAAAGGGAGTAGAG
 G GAAAAACGGGAAAGGAAGGAGAAAACCAGGGAGAGAGAAGAG
 C C G A A A A G GAAAAA A G CA $A \operatorname{A} G A A A A G A G G G G A G A G A G G A G G C A$ G G A G A A A A C A T T G A A G G G A A G G T T A A G G G G A C G G G G G G G C G G
 G G G GAAA A A G G G GAAAGGGAAGAAAGAAGGAAGGAAAACAAA ACGGAAACAAGGGGAGAAGGCCAAAAGAAAGGGGGGCAAGGB A G G A A A G G A A G A G A G G G G G G A A G G A A A A G G G G A A G G A T A C G G A $G G G A G A G G G G A C A C A A A A A A G A G G G G A G G G G A A A A A A A A A A$ C C G GACAAAGGAAGGAGGGGAGGGAATAGGGGTTGGAAAAGG G GAGGGGAAAGAACGGAAGGGAAAAAGGGGAGAACACAAAAG GAAAGGGAAAGGAACCAGGAGGGACACCGGGGAAAAAAAAGA G GAAGCGGGAAAAAGAAAGGAAAGAAAAGATTGGCCGGAAGA A G G GAA A G A GAAGGAAAGCCCCGGAAGGGAAGAAGGAGAAAA GAGAAAGGAACCGGGGAAGGAATAGGACAAGGGAAAGGACAA A A A A A A $\mathcal{A} G G G G G G G A A A G G G G A A G G A A A G G A A A A A A G G A G A A$ A GAGAACCGGGGGGGGGGGGAAAAGGGAAAAAGGAGACBAGA G G GA A G G G A A G GAAAAGGGGAAAAAGGGCCAGAAGGAGAAGA GAAAGGGGAAGGGGGAAGCCAAAGCGCCAGGGAACCGGACAA $A G G G G G G G G G A A A A G G G G G G C G G G C C G G A G A G G G A G G G G G A A$ G G G GAAAAAGAGAGGAAAAGAAGGAGGGCAAGGGGAAA GAAA G G A A A A A A A G CAG G A A A A G A A A G G A A G G A A A A G G G G G A A A A A AAAAGGAAGACCAAACAGGGGGAAAAGAGAAAAAAAGGGGGA GACAGGAGCAACAAAAAGGGAAGGAAAGGGAAAGAAGGAGAG CAGAAGAGAGAAAACCAGAAGGCCAAAAAGGGGAGGBAGAAG CA GAGAAAAACCAAGGAAAAAACAGAAGGGGAGACCGGAGGA C C A A A A A A G G A G A A G G G G C C G G G G G A G A G G GA C A G G G A G G A A G G G G G G G G G G G A A A GAAAAAGGCCAGGAGGGGGGGGAAAAAC

G GAGGAAAAAAGAGGAAAGGAGAGGAAGGGAGAGGGAAAACA ATACGGGAGAAAAAAGGGAAGGCAAAAAAAAAGGAAAAGGAA A A A A A GCGGGAAAGGGAAGAGAAGCCAAAGAAAAA GAAAGGGG GATAACAAAAGAAGGAGGGAACCCGACCGAGGAGGAGAGGCA G G G GAAAGAAAAAAAAGGAAAAGGGGAAAGCAGACAAGAAGA G G G GAACCGGAAGAGGAAAAGGGGCCAAAAACAGAGAGACAG A A G A A A G G A G G A A A A A A GCCGGAGCAGAAGAGACCACACA GA G G G G G G A A A A C C GACCAAGGAGCCGACCGGAGCAGGGGGGGG A A A A A GCCCCAAGGCCAAGGAAGGAAGGAGAGAGAAAAAGAG A GAAGGAAAAAACCAAGAAAGGGGGGCCGGGGAGGGCCAAGG GAAGAAGGAAGGGGAGGAAAGGAAGGCCAAGGGAGGAGAGAA A A G G G GAACCAAGGAAAAGGGGAAAGGAGGAAAAAGAGAAAA A A G A A A A A A A G G A T G G A A A A C C C CAA $\mathcal{A} G G G G G G G G A G A G G A A$ AAAGAGAAAAAGCGGGACAAGGGGAGAAGACCGCGGGGAAGA G GCAAGAACAAAAGAGGGGAAAAGGGAAGGAAATCAAGAAAA GAGGGAAAAGGGAAAAAGAGGGGGGGCCAAAGCCGAAAGAAA GAGGGGACGGAACCGGAACCAAAAAGGGGAAATTAAACACAA AACCAAAAGGAGAAAAGAAACCCCAAGGAAGGGAACTTGGGG $G G A A G G A A A A A A A A A G G A C C A A A G G A A G G G A A A A A A A A G A C A$ G G G A A A G G G G A A G G G G A A G G C C G G G G G A A A G G A A A A A A A C A C AACCGAAAGAAGAAAGAAAGAGAACAAGGGGAGAGACCCCCA CAGGCAGGGAGGGAGACCAAAGGAGGGGGGCCGGAGAGAGGG GAGAGGGAGGAAACGAGAACGGGGGACCAGCACACCCAACAA G GCCGGAAAAAAGGAAAAAAGGGGAAAACCAAAAAAAAAAAG GAGGAGAAAAGGGGCCAGGAAAGAGAGGGGAACCAGAACGCC GAAGGGAGTTAGAGGAAGGACCGGAGAGAGAAGGAAAAAACA G G G GCCGAGAAGCAAGAAAAAAAAGAAAGAGAGAAACCACAA

 GAGGGGGGAGACAAAAGGAACCAAAGAAAAAGGGAAGAAAGAG A A G G A A G G G G A A C C G A GAGGAAAAGGCCCCGGGGGGAAAAAA AAAAGACAAGAACCACCAAACAGAAGGGGGTTAAGGCCGGAG G GAAACGGAAGGAAGGAAGGAAAAGGGGAAGGAAAAGGAGAA A A G G G A G A A G A GA GATGAGAACGGAAAGGGAGAAAAGGAAGA GAAGAGAAGGACAACCGGAAGGGGGGACGAAAGGAGAAATGA A G A A A G G G A A C A G A G A A A A A G G G G A A C C A A A C A A G G C G G G C A A G GA A G G GCCAAGGACAGGGGGGGAAAAGGGGAAGGGAAAAA AA $A \operatorname{GGGA} A G G C C A A C C G G G G A G G G G G G G G A G G A A A G A G A A G G$ AAACGGGGAAAAAAAAAAAAAAAAAAGAACAAAA GAAAAGGGG AAAAGGAAGGGACAAAGAAAAGAGCCAGAACAAGAGCCAAAA AAAAGGAGCAGAGGGGGGAACAAGAAGGGGGGAAGGAGAACA A GCCAAAAAAGGGGAAGAATGGGGAAGGAGAAGGAAAAAA G G $A$ GAAAGGGGAAGGGGAAACGGAAAAGAGGCCGGAAGGGAGAAC $A C A T A G A A A A A G A A A A A T G A G G A G C A G G G G A A G G A A G G G G G G$ G GCCGGGGAAAGCCAACCGGAAAAAAAAACGGAGGGACAGAG A A G G A ACCAAGGGGCAGGCCGGCCGGCCGGAGGAAGGAGAGG G GACGAAAGGAGAAAAGGAAAAAAGAGGGGCAAAAGGAAAAG G G G G G GAA $A \operatorname{GA} A C C G G A A G A G G A G G G C C A G A A G G G A G G A A G G$ A A G GAACAGGAAGGGGAGGGAAGGGGACCCAGGAAGAAAACAC A A C A A C A G A A A A G G G G A A GAGGGGCCGAGGAAAACAGGAA GA GACCAAGAAAGAGAAACCCCGGGGCCGGCAAAGAAAAGAGAA C C C A G G G G G G A G G G G G A A A A G GAA A A A GAAA A G GAAAAA A A G G G A A G G G G G G A A G A A G G A G A G G A A A G G G G G A A A C G A A A A A G G G G G G G G G G A A A GAA A GAAGGGGGAGAGAAACCAAAGAC GAGG G G G G A A A A GAGGCAAGAAGAAAAGGACCAGGAGGAGAACCAG GGCCAAGGAAAACAAGACAGGAAAAAAAGGAGAAGGCCAAGA A A G A C C A G G A G G A G G G G G G G G G G A A A A A A $A G A B G G G G G A C A A$ A A G G A A A A A A G G G G G G A A GACA A A A G G G G GAGA A A G G G A A A $G$ GGAAAAACCCAACCGGAAGGAAGGCCGAAATAAAGGGAAAAA

AAACGGGGAAGACACGCAGACACCGGACAAAAGGAAAGGGGG A A GA $\operatorname{A} G A \operatorname{A} A A A A C C C C A G C X A G G G A A G G A A G G G G G G C C G G G G$ GGAACCCCAAAGAGAAAAAAAAAAGGAACCCCAGAAGGAAAA GGAACCGGAAGAAGGGGGACGGAAGGAAACGGGGGGGGAAGA G GAGGGGGAGGGGGCAGACAAAGGGAGGGAAAGGAGGGGAAA G G GAAGACCCAGCCGGCCGGAGAGGGAAAGAGAACAAAGGAG C C G GAGAAAGAACCGGGAAGAACCCCAAGGGGGGCCCAAAAA AAAAGGAAAAGGCCAGGAAGGGGGGGGAAGGGAAAAACAGAA G G G G G G G G G G G G A A A G G G A A C A G G G G G G G G GA G G A G A A A A A $G$ A GAAGGAAGGGAAAAAGGGGAGGGAGGAGGGAGGAAGAAGAA A A G G G A GAAAAAAGACAGGAGGAAAGAAGGAAGGGGAAAGGG G G G G G G A G A G A A $\mathcal{A} A G G A G G G G G G G G A G G G A A A A A A A A G A G A A$ G G G G G G G G G GAACCAAAAACAGGAAGGAAGACAGAACAAC G G $G G C C A G A G A A G G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G G$ $C C G G A A A A A A A A G G G G G G A A A A C C A A A A A A A A A A G G G G A A A G$ G G G GAA A A GACCACCCAGCCCACCAAAAAAAAGGAAAGAAAA A GAGGGGGAAGGAAAAAAGAAAGGGAAGTTAAGAAAGGGGGG G G G G G G A A G G A A G GCCAAAAGGAAAAGGGGGGGAGACCAGAA A A G G G G G GCCGGGGGAGGAAGGACGGGGCCAAAAGAAAGGAA CAAAAACCCCCCCAAAAACAACGGGAAGAAAAAAGAGGGGGA TAAGGGCCAGGGGACCAGGGGGAAGGAGAGGGGGGGCCAAAA C C G G GAAAAACCCCAGAAAGAAAGGGCCAAACCAGGAAAAGG

$G C C G G A A G G A A G G A G G G A A A G G G G C A A C C A G G G G G A A A A G G$ GAAAAGCCGGGAAAAAGGGGGGAACAGAGGGGAAAAAAGGGG G GACGGAAGAGACAGGAGAAGGAGAAGGAGGAGGCCAAAAAA G GAA $A \operatorname{GA} A A A G G A A G G A A G G G G G G G G G A G G G A A A A G C A A A A A$ G G G G A G G G A GAGAACAGGGGAAAACCAAAGCAAGAGCAGACC $C \subset G G G A A C G G G G A T G G G G G G A A A A A A A G G A G G G G C C A G C A A A$ A G G GAAAGAAGGAAAGGGAAAGAGAGAAAAGAGGCCAAAAAA $A G A A A A G A G G A G G G G G G G G G G G G G G G G G G G A A G G G G G G A G A G$ A A G G G G GAA A A G G G G G G GAAAGGAGGAAAAGGAAGGGAGGAA A GAGAGAAAAGGAAAAGGGAAGACAGAGCCGGAAGGGAAAAG ACAGAGGAAAAAAAGAAAGAGGGGAAAACCCCAGAGAGAGGG
 $A G C A A G G G A G A G G A G G C C A A A A A G A G A C G A A G G A G A G A G G A A$
 A GCCAAAAAGAAGGAAAGAGGAAAAACAAGGAAAGAAGAA GA A ACCGGGGGGAAGAGAAGAAGAAAACGAGGGGAACCGGGGGG G G G G A A G G G G G GAAAACCGGAAGGAAGGAAAAAACCCAAGAA $G G A A G G C C G A G A G A G G G G G A A G G G G G A A G A G G G G G A G A A C G A$ GAAGAGGGAAGGGGCAGGGGAAGGAAAAGGAAAAGAACGGGG $C C G A G A A A G G G G G G C A A A A A C C G G A A A A G A A G C A A G A G G G G G$ C C G G G A G G A A C A A A A G GAGAAGGAGGA GAAAGGGGGGAAACA $A A G G A A C G G G C C G G G G G A G A G G G G G A A G A G G G C A A G G A A A G G$ G GAGAGAGAAGAAGGGAGAAGGAAAAAAGAAAAAGAAAGGAA AAAGAAAGAGAGAAGGGGAGAAATAGGAGGAAAAGGCCACAA A A A A A ATTGGCCGGAAAACCGGGGAACCAAGGAAAAAAAAGG A A G G G GAA $A \operatorname{ACC} C G A G G G A A G G G G G G A A G G A A A A C C G G C C G G$ A A G G A A G G A A A A G G G G A A A A C CAA G G G GAAAAAACCCC G GAA C CAAAAGGAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA
 G G GAA $A$ A $\operatorname{A} A A G G A A G G G A C C A G C A G G A C A A A A A A A A A G G A A A$ A GAAGGACAGGAAGAGGGAGAAAAGGCGCCAGGAGGAAAAGB A A A A C CAA A G G G G G G GAGTTAAGGGGGGAAAGAAAACAAAAA AAAACGAACCAAGGAAAAGGAACCAAAAGGAGAAAAGGAAGBG G G G G G GAGAGAAAAGGAAACGGAAGGAAAACCAACCGAAGGG AAAAGAAGAAGGAAGGAGGACCAGGGGGAAGGGGCCGGAACA G GAAAAGGAACCGAAAAGGGAGGGAGGGAAAAGGCCTTAAAA

AAACAAAAGGGAACGGAAAGGAAGGAAGGGAAAACCAGGGGG A A C C G G G G G G G A G G G A G G G G G G G A A A G G G G G A G A A A A G G G G A $G G C C C A A G A A A A G A A G G G G G A A G G A A G G C C A G A G G G C C A G A G$ A GAGGGCCAGAAGGAAGGGAAAGGGGAAAAGGAGGGGAAAGA G GAGAAAGAGGGAAAAGGCCAAGGGAAGAAGGAACAGACAAG
 G G G G A A C C A A G GAA $A \operatorname{GAAAAGAGGGGGGAGGGAAGAACAAAAG}$ AAGGAAGGGGAAGGAGGGCCAGAAAAGAGGGGGGAAAGACAC G GAAGGGAAGCCAAGGAAACAAAAAGAGGAGAAGAACAGACA $A C C A C C G G A G G G G A G G A A A A A A G G G G A A C C A A A A A A G G G G A A$ G G G GAAAAAAGGACAGAGACGGAAAAGGGGCCAAGGCCAGAAA G G G G G GCA G GAGGACCGGAAGGGGAAAAAGCCAAAGGGAAGG G GAAAGGAGGAACCGGAAGACGCCAGGGAAAAAGGGGGAGAG $G G A G A G G G A A G G A A G G G G G A G G A A A A A A G A G G G G G A G A A A A G$ GAAGGACAAGCCGGAAAACAGAAGTTAGGAAAGGAGGAAGAT CACCAAGAGGACAGGGCAGGGAGAAGCAAGAAAAAAAAAAGG G GAGAAAGAGAAAAAGCCAGAAAAGGAAAGGAAAAAAA GAAA GAAGGAAGAGAGCAGGAAGGAGGAAGCCGGCCAGGGGGGGGG AAGGAGAGAGAAATCCGAGGGGAGAGAGGAGGAGAGGGAACC A A G G A GA GAGAGTAAAAAAAGGAAAAAGAAACAGGGGACCAC G GAAAGCAAACCGAAGAAGGGAGAAAGACGGGCCGGGGAAGAG
 A A A A A A A GCCGGGGGGGAGGAAAACCAAGGCCAAAGAGAGAA A G A A A A $\operatorname{A} G A A A A A G G G G G G G A G A A C C G G G A A G G A A A A A G G G G$
 ACGAGGAGAAGGAGAGAAGGCCGGAAGGAAAAGGAAAAGAAA AA $\operatorname{A} G A A A G A G G A A A A A C A A G G A A C A G G A A G A A A A G G G G G G G A$ $A C G G A A G G A A G G A A A A T T G G G G A A A G A G A G A A G G A A G G A A G G$ A A C C A A G G G G G G C C G G A A G G G G A A G G G G C C A G A GC CA G G A C C C CAAAAGGGGGAGGAGAGGGAGAAAAGGGAAAGGGAAAAGAG A GAAAAGAGGGACATTCCAGGAAAGGCCGGCCAAAAAAAAGG G G G GAA A G G GAGGGGGGCGGAGAGTAAGCAAAGGAACCAAGA G G G G GACAGAAGAAGGAAGAGGAGAGGGAAAGAGGACCAAGG $A A C C A A A A G G A G A A A C A G A G G G G G A G C C A A A A G G G G G G G G G G$ G GAGCCGAGGGGAAGGGAAGCCGACAGGAGGAAAGAGAGAGA A A A A A GACAGGGGGCCAGAAGGAAAAGGAATTAAAAAAGGAA A A G GAA A GAGAGGGGGGGGGAAAGAGACAGGGAAAAAAGAAA GAAGAAAAGGAGAAAAGGCCGGTTAAAGAGAAGAAAGGAAAA A A G G G G A A A G A A G A A G G A A G G A A G GAGAAGCC GAAAG GA GAA AA $A G C C G G C C C A A A G A G G A G C C A C G G A A A A A A A A G G A G G G G G$ GACAAAGGCCGGGGAAAGGGAAAAGGAAGAGAGGAAAGACAG G G G G G G G A A A A A GAGGCAAACCAGAGAGGGGGAGACGAAACC AAAAGGAAAAGGGGCCAGGGGGGGGGGGAAAAAAGGAAAGCC GAAATAGAAGGGAAAGACGGGAGGAAGAGGCAGGGACAAAAA A A G A A GACAGCAAAGGAAGGGGCACCCCACAAAAGGGGAAGA A A G G G G G G G G A A A C G G G G A A G A A A A A GAGGAAA A CA G G G G A A G G G G G G G A A GAAAAGGAGAAAAGGGGAACACAGACAAGACAA C CAA A G G GAAAGGAGGGGAAAAGAGGAAAAGGACACGGGAAA AAGGGGCCAAGGAAAGGGAAGGAAGGCACAGGAAAGAAAAGG A A A A GA $A \operatorname{GACA} A G A G G G G G C A T G G A A G A A A T T A A A G G G G G A A$

 GATTCCAACCAAAGAGGGGGAGAAGGAAGGAAAAAAAAAAGE AAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAAG GAGAACAAAAAACAAAAAGGAAGGAACCAAGGGGAAGGAAAA C C A A A C G G A C A A A G A GAA GAGGAAGAGGGAGGGGAAGGAACC
 A A A A A A G G A A GGCCAAGGCAAAAAAAAAGGCAGGGGCCAGAA AAAAGAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAGGAAAA

GAGGGGAAAAGGAAGGGACACAAAAAGGAAAGCACCCCAGAA
 A A A A A A A A A A G G A A A A A A GAAAGGAAGGAGAGAAAGGAAA GA AGGGACGGGGCAACGGAAGAGGCCACAACCAAAAGGAGGGAG GAGGAAGGAAAGGGAGGAAACCGAGACAAAACAGCAAGAGAC GA $A \operatorname{A} A G G A G A G G A G C A G G A T A G G G G G G G A A A G G G A G G C A G A A$ G G G G A GCC G G G A G G G G A A G G G G A A A G A G C C A G G G C C G G A G G G A GAGAAAAGGGCACAGGGGGAAGGGAGGGGAAGGCCGGAGAA GAGAGAAGAGGGGGGGGGCCAAAACCAAGGAAAGGGAGAGCC AAACGGGGGGCCGGATGGAAAAGGGGCCGGGGGGAACCCCGG
 G G G GAGAAAAAACCGAGGGAGAGGCCGAAAAAAAGGAGACAA CACCGGAAAGAGAAAAAACCAAAGAAAGAAGGGGGGAAAAAA GAAAAAGAAGGGAACCGGGGGGAGCCAGAAGGGGAGCACAAA GAGAAGGGGGCAGAGGAACCAACGAGAGGGAACAGAGGAGGG CAGGGAAAGGAAGGGGAAGGGGGGGAGAAAAAGGAAGAAAAC G GAAAACAGGAAAGGGGGGAAGACAACCAAAAACGAAGAGAG GCAACAGGAAAAAGAAAAGAGGCCGGAAAGGGAGAGAAAAAA C CAAAAAGCCGGCAGAGGAAGGCCAACAGGCAAAGGGGGGGG A A G G A A T T G G G GCACACAACGGAAGGAAACGGAGGGCCAAGA C C A A G A G G A G G A A A A A A GAGGGAAGCGGGGGCAACAGAAAAG G G GAAGGGAAGAGAAAAAAAAACCAAGGAACCGAAACCGGCC A G TACAGGGAAGAGAAGGAAGGAAAAGGGGAAGGAGA
A GAGGAGAAAAGAAGGAGGAGAACGGGAAAGGGGGAAAGAG A G G A GAGGCCCCAAAACAGAGGAGGGAGAAGGGGATAAAAAA ACGGGGGGAAACGGGGGACCAGAGGGGACCAGAGGAAACAAG GAAAAGACAAGGAAAAAAAAAAGGAAAAAACCAAAAGAGGGG A A A CA $\operatorname{A} A \mathrm{~A}$ A A G GAAAAAAGGAAACGGAAAAAAGGAAGGAAAA AAAGAAAGCAGGAAAAGGAAAGGGAGAAGAAAGAGAAAGGGG CAAGGGGGGACCGAAAGGAAAAGGGGGGGGGGAAAAAAAAAA A A G G A A A A A A C C C C A A A A A A G G G G A A A A G GAAAACCCC G G A A AAAAGGAAAAAAAACCAAGGAAGGAATTAAGGAAGGCCGGCC A A G G G G G G A A A A G GAAAACCGGGGAAGGAAAAGGAAAAAAAA G GCCGGAAGGAAAAGGGGGGGGAAAAGGAAGGAAGAAAAA G G $A$ A A A A A A A A G G A A G G A A A A A A A A C C GGCCAACCAA G GAA G GAA $G G C C A A A A G G G G A A G G A A G G G G G G G G C C A A A A G G G G G G A A G G$ AACCAAGGAAAAAAGGCCGGCCGGAAGGAAAAGAAAGGGGGG
 A A A A C C A A T TAACCGGTTAAAAGGGGCCGGGGAA G GAAAGGG A A G GCCAAAAGGAAAAGGGGGGAAGGGGAAGGTTCCGAAAAA G GCCAAAAAACCGGGGGAAGGGGCCGGGGGGGGCCGGAA$G G$ A A A A G G A A A A A A A A A A A A G G C C G G G G A A A A A A A A G G A A A A G G G GAACCAAGGAAGGGGAAAAGGAAAAAATTAAGGAAAAGGGG A A A A A A G G A A G G G GAA A G G G G G A A A A G G G G A A A A A A G G G G A G AC G G G GCCGGAAGGAAAAGGAGCAAGAGGGAAGGGAAA GAA G A G A A G G G G G G A G A A G G C C G G G G G A A CACAGGAGGAAGA GAC C G G G G A A A G GAGGAGGACCAACCGGGGAAGAGAAAGACAAA GA A A G GCAAGGGCAGGGGCATTAAAAAAGGCACCAAAAGGEGAA GAGGGACCGAAAAAGGCCGGAGGGAAGAAAGGGACAGGAAAC A A C C A A A A A A A A A A C C G G A A A A A G GAGAGGAA G GAA G G G G G G A A G G G GAA A G A A G A A A G G G G G G A A G G G G G A G A A A A G G G A A G A $A C A G G G A A G A G G G G G A A C G G A A G A A A A A A A G A C C A A A A A A G G$ G GAGGAACGACAAGAGGAGAGAAGCAGAGGGGTTAGACAAGG
 GAAGGACCGAAAGGAAAGCCCCAAAAGAGGAAAGGGGGAAGA A G G A A A G A A A GAGGCAAGCCAAGACAAAAGGGCAAAAAAGGG G G GAGAAGACGGGGGGGGAAAAAAAAAAAACCGGAAAGAGAG
 $A G A C A T A G A G A G G A A C G A G G A G A A A G G A G A G A G G G G C C G G G A$

A GAGAAAAGGGGAAAAGGGGGGAAAAGGCACGCCAAGGACCC CAGGAAAAAGAAGGCCAAGGAAGGCCGGAAAAGGGGAAGGCC $G G A G G G A G T A A G A A G G G G A A A A C C A A C C G G C C G G G G G G A G A A$ G G G GAAAAAAGGAAGGGAGGAGCAGGGGGAGGAAGGGGGGGA AAAAGGAAGAGGAAGGCCAAAAAAAGAAGGAAGAAAGGGGGG A A G G G G A A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G GAA C C G G G G G G G A G G A A A G C A G GCAGGAAAAAAGGGGAACCGAAAA G GAAGGAAAGGAAAAGGAACCGGCCAGAGAGAGACAGGGCCAA G G G A G A C C G G A GAA A A $\mathcal{A} G A A G A A G A A G A G G G G A A G G C C G G G G$ G GAAAAGGGGCCGGAGAGAAGGGGGGCCAAAACCGAGGAAAA AAGACCCCGGAAGGAAAACCGGAAACCAACAAGGGGGGGGAA A GAACCAAGAAAGGAAGGGGAACCAACCAGGGGGCCAGAAGB G GAGGGAGGGAAGAAACCATGGGGCGCAAAAGAGAGGGAAGAG G G G G G G A A G GAAA A A A A G G GAAA A G G G C CA A A A G G A G G G G A G G G G G G G G GAAAGGGGGGGAAAGGAAAACAAAAGGGAAAAGAAG GAGAGAAGGGAGGAGACCAGGGTAGAAAAGAAGAAAGGGGAA
 G G GAGGCCCCGGAGAAAACAAAGGCGAAAAAAGGAGGAAGAG G G A A A G G A A G G A GACA G GCCCC G GCCCCGGGGGGGGGGCCAG G G G A G A A G A G A C A G C G G A A GACCCGGGGAAAACCAACCAGGG GAAGAAGGGGGGAAGAGGAAAAAAGGAAGGGGAAAAAAGGAG G GAAACGGGAAAGAGAAGGGCAAAAGGAAAAGCACCAGAGAA A A G G G G G GCCAA $\mathcal{C} G \subset C A A G G A A A A C A A A G G A A G G G G G A G G A G$ G G G A A A G G A A A G G G C C A A GAGGAAGGAAAAAAAAGGCA G G G A GAAGGGAGGAGGGAGGCAGAAAAACCGGAAGGAAGGGAAAGA G G G GAA A A A A G G GAA $A \operatorname{AA} A A G G G A A G G A A A A G G G G G G A A A A G A$ G G GAAA AAGGGAGAACAAAAAGCAAACAAAAGAGGAAGGGAC C C A A C C A A A GCCGGCC G G T TA G G G A G G G G G GA G A G G A G A G G A G GAA A G G G A GAGGGGAGAAAGACAGAGAAGAAGGGGGAGAAA
 A A G G A A G G G G A A A A A A A A A A G G G G G G A A G G G G C C A A G G G G A A G G G G G G C C A A G G G G G G G G G G A A A A G GAAAAAAAAAATXAAC $A$ G G G G G GAAAACCAAAAGGGGTTAAAAAAGGAAAAAAGGCCGG G GCCGGGGAGGGGGAAAACCAAGGAGAGAACCGGAAAAAAGA G G G A G A A GAGGACCAAAAAGCCGAGAAAAAAAAAAAAAAGGA A G G A C C A A A A G G G G G G A A A A C C A A CAAAAC GAGAG GAAAA GA GAGGAAGGAAGGGGAAAAGGAAGGGGAGAGAGAGAGGAAAAC $C \subset G G A A A A A A G G G G A A A A A A G G A A A A A C A A G G G G G A A A G G A A$ GACACAAACAAAAAAAAGGAAGAAGAAAGGAAGGAAGGGGGG A G A A A A A A A A G GA G G GAAACCAAAGAGAGAACGGAAGAAAGG $G G C C A A A A G G A A C C A A A A A A A A G G A A A A A A A A A A A A G G C C G G$ G GAA $A \operatorname{GAA} A G G G A A A A A A G G A A A A G G A A A A A A G G C C A A G G G G$ G GAAAAGGAACCAACCGGAAAAGGGGAAAAAACCAAGGGGAA G G A A A A A A C C G GAAAA $A \operatorname{AGGGAAAAAAAAAAGGGGGGCCCAAA}$ $G G A A A A G G G G C A G G A C A G G A A A G A G A G A A G A A G G G G A A G A G B$ G GAA A A A A A A G G G G A A A G G G G A G A A C A G A A G G G G G G G A G G G G G G GAGGGGCGGGAAAACCGGAAGGAAAAAAAAGGGGAACCGG
 AAAAGGGGGGAAGGAAAAAAGGAAAACCGGAAAAGGGGAAGG
 C C G G G G G G A A A A A A A A G GAAC CAA G G G GAAAAAA G GAA G G C C G GAAGGAAAAAAAAGGAAAAGGAAAAGGGGAAAAAACCGGGG A ACCAAAAAAAATTAAAAGGCCAAGGGGGGAAGGGBAAAAGG AAAAGGAAGGCCAAGGGGGGAAGGGGAAGGAAGGGGAAGGGG G GAACCGGGGGGGGAAAACCAAAAGGAAAAAACCBGAAAAGG A A A A G G G G A A A A G GCCCCGGAAGGCCAAGAGC GAGGGGGGGG
 A G G GCAC CAA GAGAAGCCAAAAAACAACAAAAA GATAAATG G A A GAAAGAAAAAGAGGGAAGAGGAGAGGAGCAGAAGAAGGAA

CAAAGGGGAAAACCGGCCAAGAAAGGGCAAAGGGAGAAAAGA
 A A CA G A A G A A C GCA GAAGGATTCCCCCAAAAACCCCAAAGBA G GACAGCCGGGGGAGGGACCGGAAAGGACCGGAAAAAGGACC AAAAGAAGAGAAGGGAAAGGAAGAAAAGCAGGGGCCGGAAAA $G G A A A A A A G G A A A A A G G G G A G G G A G G G G A A G G A A G G C C A G A A$ $C \subset G G A A G A G C G G A A G A G G A C G G G G T T A G C C G G A G G C G G A A G A$ AAAAACAAAAAAAAGGGGAAAAAGAGAAAAGAAAAAGGAGAA T T A A A A A A G GAA $A \operatorname{GAA} A G G C C A A A A G G G G A A G G A G A A A A G G A A$ A GAAAGAGGAAGGGAGCCAGGGGAGGAAGAAGGGGAGAAGGG G GAGAA GAAAAGAATAACAAGGGGAAAAAAGGAAGGGAGAGG G G T T G G A A A A A A A A C G G GC C C A G G G G G G G G G G G G A G G A A G $G A$

 G GAAGGCCGAGGAAGGAACCAAAAGGGAAAAAACGAAAAAAA G GAATTGGTTGAAAAAAAAGAAAAGGAAGGGGGAGGCATTAA
 A A A A A C A A A G G GAAAACCCAGGGGGGAGAAAAAAAGGGGGCC $G G C C A A A A A A G G A C A A A G A A A C G G G G A A A A G G A A C C A G A A G A$ A A GA $A \operatorname{GGG} \operatorname{G} A A G G A A A A G G G G G G G A A G A G A A A A G A A G A A A A C A$ CAGGAGGGAAAAAAGGAGAGAACCAGAAAAGGAAAAGCAGAA G G G GCCAGAGAGGGCGAAAAGGAAGGGGAAGGAAAAGGAAGA A A G G G GACGAGGAAAGGGCCCCCCCAAAGAAAAAGGA
GCCGGGGGGCCCAAAAACCGGAAGGCAACGAACCCCACCGG AAGGAAAAGAAGAAAACCGGGGGGAAAAAAGGGGAAAAAAAA AGGAATAAAAAGGGAAGGAAAAGAGGGGGGAAAAGGCAAAAA A G A G G G G G G G G G G G G G A G G G G G G A G A A A G A G G G G G G A A A G $G A$ A A G G A GAAAAGGGGGGGGAAAGAAACAGGAAGCCBAGCCCGG AACCAAAAAAAAAACCAAGAAGGAAAGGGAGGCAAGAACAGB A GAAAAAAAGGAAGGGGGGGGGGAAGGAACGAGGATGGAGAA A A G G G G G G A A A G G GCCAAAGGCGGGGAAAAAAGGGAAAAGAA AAGGAAGGCCAAGGGGGGAAGAAGCCAGAAGAGGAAACCCGG G GAGAAAACCAGCCGGAAAAGAAAGAAAACAAGGGGAAAAAA A A A A A A A $G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A G A A G A A G G G A A G G G G G A G A G A A$ A A A A A A GACCCCAGGGGGAGGGAAAGGAGGGAGAAAAAGGGG A A G G G GAA A A A A C C A A GA G G G G GAA A A G GA G G G G A A G G C A G A $C C G G G G A A C C T T G G A A A A A A A A G G C C A A G G G G A A G G G G A A G A$ GGCGAACCAGAGGAAGATGAAGGGAGAAAACCGGAAGAGAAA A G G G A G G A A C A G G G G G G G A A A A G G A G G G G G G G G G G G A G G A A $G$ A GAGAACACCAAGGGGGAAGGAGGGGGGAAGAAAAGAACCBG $G G A A T T C G G G G G G G A G A A G G G G A A G G G G G A A G A A A G A A C C A A$ G GACAAAAGGGGAAAACCAAGGGGGGGAGGAGAAGAAAAAGB A A G G G A GAGGGGGGAAGGCAAGAAAGGGGCGGGGGAAGAGGG A G GAAGCCAAAGGACCGAAAAAAAGGGAAAAGAAGGAGAAAA $T \mathrm{~T} T A A G G G A A A A A A G G G A G A G G G A A G G A G G G G G A A C A A A G A$ A GAAAAGGGGCCGAGGAAAAAACCCCCCAAGAAGAAGGAATT AACATTAGGCAACCAGAGGGGAGAGGAAAGGAGAAGAAAAGA GAGGAAAAGGAAGGAAGGAAGGGGGGGGAAGGGAAAAACAAA G GAA $A \operatorname{GAA} A G G A A A A G A G G G A A G G G A A A A G A G G G G G G A A A A A$ G GAGAAGAAAGGAAGATTGGAGAAAAGGGGGGAGAAGGAGGG A A G G A G A G G G A G G G A C G A G G G G A G G G A A A G CAAAA A C C C G A G
 A GAACCCACAAGAGAGCCGAAAGAACCAAAGAGAAAAAGGGG G GAGTAAGAGAAAGAGCCAAGGAAGAGAGGAAAGGGGAGATT GAGAAAAAAGAAGAGAAAAAAAAGAGGAAGAGAATTCAAAAG G G A G A A A A A A G ACCAAAAAAGGAAGAAACCACAAAAGGAAGG A GAA $A \operatorname{G} \operatorname{A} A A A A A G G G A G C A G G A C G G C C A A A A A A A A A A A G A G G G$
 GAAACCAAAACCGGGGGGAGGAAGGGAAAGAGCGTAAACAGG

G G G G G G G A A A CA $A$ A GAGGAACCAGGGAGTTGGGAGAGAGGCC A A G G A A A A GAA $A$ AAA A CAAGAAGAGGAAGAAAGAAAGCA GAAA A G G G G G GAGGCCAAAGAAGAGGAAGAGGGAGAGGGGAAAAAA G GAAGGAAGGCAAAGGCAAAAAAAAAGAAAAAAGGAAGGGGC G G G G G GAACCGAAAGAGAGAGGGATTTAAAGGAGAAAAAAGA $A G C C A G G G G A G G G G G G A A G G G G A G G G A G C A A G G A C A C C G G G G$ C C A A A A G G A A A A A A G GAAGGAAAAAAGGAAGGAAAAAAAACC AAGGAAGGCCAAGGAAGGCCAAGGGGAAAAGGAAGGGGAGAA G G A A A A A A A A A C G A G G A A A G G GAGGGGGCCCCAAAAACACAG TAAAGAGAGGAAGGGGAAACGGAAAGAGCCAGAGAAAAGGAG A GAAGGGAAAAGCCCCGGGGAACCAAACCAACCCGGAACCTA A GAGAA $A \operatorname{G} A A A A A A \operatorname{AAA} A G G G A T T A A A A G G G G G G A G A A A G G G$ $G G C C A G G A G G A A A A G G G G G G A A G G C C G G G G G G A A G G A A G A A A$ A A G G G G G G A A G G A A A A G A A CA A C CAAAAGGGGGGGAGATTAA ACGGAAAACCAAGAGGGGCAGGGGAAGGCCAAAAGGGGAAAA AA G GAA $\operatorname{A} A A A A A G G A A A A A G A C A G A A G G G A A G G G G G A C G G G A$ G G A A A G G G A C G G A A G G A A G G G GACCA GA G GAAAAA G G G GAA G G
 C CAAGGGAAAGGGAGAAGCAAGGAACGAGAGGGGAAAAAAGAG A GAGAAGGAACCAACCGGAAGAAGGAGGAGAAGGAAGAGAAG G G G G GACCAGGAGGGAAAGGCCAGGGGACCAGAGAGGGAC A A G G G GAGGAAGAGAGAGAAAGAAGAGGGGGGAAAGAAGAACAA $C \subset A G A G G A G G A A G G A G G A A A G A G G G A G G G A G A A A G G G A A A G G$ G G G G A A G G A G G G C C G G A A A A G G A A G G G G G C A G G G A G A G G G A C G GCCGGGGGGAGACGAATGAAACCAAAGGAGGGAAGGGACAG G GAGGGGGGGCCAAAGAAAAGGGGAAGGAAGGAAAAAAAGAC $C \subset A G A G A C G G A A G G G G A A G A A A G G C C G G A A A A A A A A G G A G G A$ G G G G GCGAGAACAAGGGGGGCCAAGCAAAGAGAGAGAGAGAG G G A A G GACAGAAAGGAGGGGAGAAAGGACCGAAAAGGAAGAG $A G C C G G A A G G G G A A A A A G T T G G A G G A C C A A G G G G G G A G A A A C$ C G G G G GCCACAACCGAAAAAGGGGAACAAGAGAGAGGGAACAC TTCCAAACCCGGGGAACGGAAAGGCCAGGAGAGGAGGGAAAA A A GAAAGGAAACAGGAGGGAGGGGGAGGGAAAACCCGAAAGB $G G C C A G A A A A G G C C G G G A G G A A G G G G G G A A A A C C G G A C A A A A$ ACGGGGGGAGCACACAAACCGGAGAAGGAAGGGAAGAACGGG CAACGGCCGAGGAAGAAGAAAAAAGGAAGGAAAAGGGGCCGG CAACAAGGAGGGGGGGGAAGAAAAGGAGGACCAACCAGAAGA G GAAA AAAAAA GAAACGGTTGAAAAAGGAAAGAAGAGGAAAA A GAAAGGGGGAGGGCCGAGGGAGGGAGAGGAAAAAAAACAAG G GCCAAGGAAGGAGAGAGAAGGAAAGAGGAAAGGAGCAAAAA AAACAGGACAGGGAGAGGAAGGACCCGGAGGGGGGAAAAAAG G GAA $A \operatorname{GAA} C \subset A A A A A G A A A G G A A G C C A G G G G G C A G A A C B G C A$ AAAGGGCCACAGAGGAGAGAGACGGGGGGAAGAGGGAAGAAG
 GAAACAGGAGAGAAAAAAGGAAGGGAGGAGAAAGGGACAGAA GAAACAAGAAAAAAGGAAAAAAGAGGGGAGCAAAAAAGACAG A A T T G G A G A A A C G G G G A A A A G G A A G G A A T T G G A G G G G G A A A $G$ A A A A G GAGAAAGGGGGAGCCGGAAGAGAGAACAAAGAGAGGA A $G A A G G G G G G G G G G G G G G C G A G A A A A G G A C G A A A A A A G G G A G$ GAAAGGAAGGGAACAGGAAGGAAAGGGGGGAGAGAAGAGAAG $A G C C G G G G A A G A G A A G G G G G A A G G G G A G A G A C A A A A A G A G A A$ G GAGAAAGAGAGAAGGGAAGGAAGGAGGGAAGAAGAAA GAAAA A A A G A A G G G G G G GACC C C G G G G A A A A G G GAA A A C C C G G G G A A G G GAGAGGGAGGCCAAAAGGGAGGCAAGGAAAGAAAGAAGGG C CACAA $A \operatorname{A} A C A G A A G G G G G G G G G G A A C C G G C A G A G A A G C C A G$ GAAGAAGGAGCAACAGAAAAAAGGAAAAGAGGGACCAAGGCC C C G GCAACAAAAAAGGAAGGAAGAAAGGAAAGAGAAGGAGAA
 $C C G G A G A G G G G A C C C C G A A A G G G G A G G A G G A A G A C C G G A C A G$

ACAGAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTTGGGG G G G G A A G G G G G G G G A A G G C C A A G G C C G G A A A A A A T T A A A A A A G G A A G G A A A A A A G G A A A A A A A A G G A A G A A A GAA A A A A CAC C C AAGACCGAAAAAAGAAGAGGAAAAAAAAGGAACCGGGGAAGA A GAGAACAAAGAAAAAAAAGAGCCCCCAGGCGGGGGGAGAGA G G G G A A A G A G G A A A A A A A A A C A A A A A G G C CAAA A GAG G CAA A $C C G G G A G G G G A G A A G G G G A A G A G G A A G A C A G G A A G G A A G A A A$ AA G GAAAAAAGGAAAAAAAAAAGGCAAAGAGAAGGGGGAAAAG C G G A A A C C G A A G G G G G G G C C G A C A A GAGGGGGACA G C C G G A A A G GAGAGACAAAAAAAAAGGAAGGAAAAGGAAAACCGGGGGG G G T T G A G G G GCCAAAAAAAACCGGGGAAAAGGGGGGAGAGGG G GCCGGGGCAAAAAAAAAAGGAGGGGAAAAGAGGAAGGAGAA A GAGAAAAGGGGAGGGACGGAAAGACGACAAAGAATGACCAC A A A A A A CCGAGGAAGGGGAAGGTAGGAAGGAAGGAGAGAGAG A A GA $\operatorname{A} G A A A A A G G G C C A A A G G A A A G G G A G A G G G G G A G A C C G G$ A G G GCCCAGGAAAGGGGAGAACAGAAAAAAAAGGGGAAAACC G G G G G G G G G G A A G A G G G GAGAAAAGGGGGGAAAAAACAAAAA A GAGAGAGAAAAAAGGAAAGGGGAGGGGGAGGAAGAAAAGAA $G G A A A A G G G A A A G G G A G G G G A A G G A G A A A G A G A A A A A G A A G A$
 G GAACCAAAAAACAAGGGCCCCGGAAAAGGAAGGAAAAAGAA G G GAAGGGCCAAGGAGCAAATTGGAAGGAAGGGGAAAAGGAA AAAAGGGGAAAAGGAGCACCGACAAAGAAGACAACGC
CAAAGGGAAGAAAACGGGGAGAGGGGAAAAAGAAAAAAAAA A GAAAACCGGAAAAAAGGAAGGAAGGGAGGAAACAGAAGGGG G GAA A GAGAAAGAAAATTGAAAAAGGAAGGAAGGAAAAA GAA AAAAAAGGGGGAAATTCCCCAGGGAAGACCAAGGAAGGGGAA G G G G G A A A C C G A C C A A G G A A C A A A GAAA G GAGGAA G GAA A G G $A G C C A G A A T A A G G G G G G G G G A A G A A G A G A G G G A A G A G G G G A G$ A GAGAGAACCCAACGACAGGGGGGGGAAAGGAGGAAGGAGAA
 AAAAGAGGGGAAGGCCAAAAAAAGCCGGAAAAGAAAGGGACC A GTTAAAGAAAAAAAAAAGGGGGAGGGGAAAAAGGAAAAACA A A C C A A A C A T A GA GAAA GAAGGAACCAAGGAAGGGAGGAGAA A G G A C A G G G A C CAA A G G G C C G A TAGAAAGGGGCCAA GA G GAA A A A A A A G A A G G A A G A A G A A G G G G G G G C C G G A G G G A A G G C C A A A A A A A A G GAGAAGAGAAAAAAAGGAAAAGGGAAAAGAAAAGG AAACAGAAGAGAGGAACCAGAAGGAAGGGAAAAAGGGGAAAA $G G A C A A A A G G G G A G A A G G G G A A G G A A G A G A G A G G G A A G A G A G$ GAGAAGAGGACCAGAAGGAGAAAGAGAGCAAAGGAGAAGAGG

 G G G G G G G G A A C C C C G G G A A A G G G G G G G G A A A A A A G G A A A A G G $G G A A A A G G G G A C A A A A A A G G A A A A G G G G G G G G G G G G G A A A G A$ C C G GCCGGGGAAGGGGAAAAAAAAGGGGGGGGGGCCAA G GAAA G GAAGGCCAAAAAAGGAACCAACCGGAAAAGGTTAAAAGGAA A A A A A A G G A A A A G GCCAAAAAGGGGGGAAGGGGCCGGAAAAAA


 G G G G A A A A A A G G G G G G A A G G G G G G A A G G C C C C G G G G G G G G A A GGAACCAAAAAAGGGGAAAAGGCCCCGGAAAAGGGGAABGCC A A G G A A A A A A A A G GCCCCGGGGAAGGCAGAGAGGGAGA G GAA AAAGGACAGGGAAAGGAAAGAAACAGAAGGAAAAGGAGAGAG A A G G G G G A A A A A G G A A A A G G G G G A A A C C G GAAAAAA G G G G G G G GAGGGGGGAAGGCCAAAGAACCCAAAAAAAGGGGGGAAGGGA G G GAGGACGAAGAGAGGGAACCCCGAGGAGAAGGGGACACAG A G A A A A G G A A A A G G A A A A A A A A G G A G A A A GAACC G GAG G G C C $A C A A A C G C C C A A G G A A A A G G A A G G A A G A A A A A G G G G A A G G G G$

GGCCAAGAGGCAAGAGAACCCCAGGGAACCGGAAGGGGAAAA $A C G A A C A G G G A A A A C A A G G G G A A A A A A A A G G A A G T T C A G A G G$ A GAGGAAGACGAAGGGCCGGAGAGCCAGGGGGAAGGAAAAGA A GAGGGAAGAGGGGGGAAGGACAGCCGAGGAGAGAAGAAAAA A G G GA GAGAAA AAGAGAAAAGAAAGAGGAAGGAAGGGGAABA A A A A G A G A A A A A G G G G G A G G A G A A A A C C G G A A G G G G A G G G G G GAAAGCGGGGGGAAGGGAAGAGACGAGAAGGGGAAAAAAGAG GAACGGAAGAAAACCGGGAAGGAAGGGGAGCCAACCAAGGAA A A G G G G A A A A G G G G G GCC G A A G G G A G G GACAAC G GAAAAAAC AAGAAACACCGAGAAGAGGGCCCCGGCAAGAAGGAAGAAGAA
 C CAAA $A \operatorname{GG} \operatorname{A} A A A A G G G G A A G G A A G G A G G G A G A G A A A A A A A A G G$ GAACGGGAAGAGAGGGAAAGACAGGGCAGAAAAAGGAAAAAA G G A A A A C C G G A A G A A GAGACAAAGGGGGAGGGGGGGAAAAAA G GAGGGCAATAGCCCCGGACGAGAGGGGGAAAGGGGAGAGAG GAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACAGGAGAGAA A A G G GCGGAGAAGGAAGAAAGGGGGGCCCCAAAGGGAAAC GA A A G G A A G GCCAAGGAAAAGGAAAGGGGAAGGGGGAAGGAGAA AAAGAACCAAAGGGGGGGAAGAGGGGCCCCAAAAAAAAATAG A G G A C C A A G G G GAA $A \operatorname{G} G A A A A A G G G G G A A A G A A C C A G A A G A G G$ G G GCAGGGGGAAGAGAAGAACCAAGGGGAAAAGGTTGGTTAA G GAGGGAAGGAAGGGGAGAGGGAAAGGGAAAAGAGGAAGGAA C C G G G G A A C C G G G G A A G G A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A A A A A G G G A G G G G G G G G$ G G G A A A G G A A G G G G GAA A G G G G A A A A A A C C GAGGATAAACAA A A G G G A G G G G G A A A A A A A C C G G G G GAAA A A G GA GA GA G G A A G A GACAACCCCGAAAGGGGGGCCCCACAAGGCCAAAAGGGCGA G G G GAACCGGAAAAAAAAAGACCCGGGAAAAAAAGGAGCCCC GAAAAAGGAACCAGAGAAAAGAGGGGAAAAAACCGGGGAAAA
 $G G A A G A A G G G A G G G G A G G C A A A A A G G G A A G G A A A G A C A A G A G$ CAAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C \subset C \subset A A C C G G C A G A G A G G G G G A A C G G G G G G$ A GAGGGAGCCCAAGAAGGGGGGGAGAGGAAAAGAAAAAAAAA A G G GAAAGCCAAAGAAAAGGAAGAAGCCCCAAGGAAGGGGCA G GACAGAAAAGGGGAAGGAAAAGGAAGAAAAAAAGGGGAABA CAGGGGACAAACCCAAAAAAAAGAAAACGGGAGACCAAAGCC G G G G C A G G A A A G G G G G G G A G A A G G A A G G G G G G G A A A C CAAA A A A A A C CACCCAAAGAGAGGGGGCCAAAACCAAGGGAAAGGAG A GAAAA A G G GATGGGGAGGAGAGAAAAAACGAGAACAGAAGA G G A G G G G G A G G G A A A A G GCCAC GAGGCAAACCAAGGGAGGGG $A C C C A C A G A A G A A A A A A A A C A A A A A A A A G C A G A A G A G B A G A A$ G G G G G G A A A C G G G G G G G G A GA G A C T A A GA GA $\mathcal{A} G A G G G G C C G G$ G G G G A A A A A A G G G G A A G A A G A A G G G G A A G G A A G G A G A G G G G G C A A G G G A A G G G G G G G A G A G G G G G G C C C C A A G G G G G G A A G G G G G GCCGGCCAAAAACGGAAGGGAAAGGAACCAAGAAAAGAAAA GAGGGAGAAAAAGGGAGGCCGAAAGGAAAATACCGBAAAAGG C C T TA $A \operatorname{GAA} A C C G G G G T T A A A A C A G G G A G G G G A A A A A A A A A A$ A G A A A A A CAAAACCGGGGAAAACCGAAAAGGGGGAAAGAGAA G G G G A A A A G G G G G A G G A A G G G G G G A A A A A A G G T T A G A G A A G G G GCGGGAGAAAAGGAAGGCCGCGGGGAAGAACGAGGAAGGGC A CAAACAGGGAAGAAAGGAAAAAAGGTTCCGGCCCCGGAGGG A GCCCCAGAAAGAACCAGCAAAAGGAGGGAGGGGGAAAGGAA $G G C C A G A G A G G G G G G G G G A G A G A A G G A A A C T A C A G G A A A G A A$ G G G G G A A A A C A A G A G G C G A G A A G A A A C CAA G G A C A T G G G G G A $A C G G A A A A G G A G A G A G G A A A G G G A G G A A G A G G C C G G G G G G G A$ GAGAGGAACGGAGGGGACGGAGGGAGAGGGGGAAACAAAGAA CCAGCAAAAAAGGAGGAAAAAAAAAAAAGGGGGAGGAAAAGAG A A A G G GAA A GCCA G GAGGAAGAAGCCAAGAGGACAAGGGGGG GAAACAGGGGAGGAAGGGAAGGAAGGGGCAGAGGAAGGAAAA $A G G A G G G G G A G A A G A G G G A G A A G G A G G A G G G A G G G G G G G G G G$

G GAAAAGGAGGGGAAGAAAGCAGGAAAAGGAGGGGAGAAAAG G G G GCCCA G GCC GACAGGAAGGGGAAGGGGGGGGGGAAGGBA AGGGCCGGAGAGCCGAACCCAAACAACCGGCCAAAAGAGGAG GAAGAGCAGGAAGGCCGAGAACGGAGAAGGCCGAATGGAACC G G G G G G GACC G GAA A G G G GAGGCAAGCCAACCCCGGAGCCCC C C A G A C A A A A G G GCGGGAAGGGGGGAAACAGGAGGAAAAGAA G G G A A G G G GA G A A G A G G A A A C C G A CAA G GAGGAAAAA G G GA G A A G G G GCCGAGAAGAGAGAGGAAGGAGGGGAAAAA GAAAGGG G GAA ACAGGGCCAACCGAAGGGAAAAAAGGGGGGGBAAGGGG AAGGAAAGAAGGACAAGGAGAGGGGGAGCAGAGGGGAAAAAA G GCACCAAGAGAGGGAAAGGAGAACCGGAAGGGGGGGAAAGA GAAAAAGGAGAAAAAAGAGGGAAAAGGGAGTTGGGGAAAAAA GAGGCCAAAAAACCAAGGGGAAAAGGAAGGCCGGAACCBGCC A A A A A A A A A A G G G G A A A A G G A A A A G G A A A A G G A A G G G G C C T T G G G GAA A GCCGGAACCAAGGGGGGAACCAAGGGGGGAAGGGG G GAAGGGGAAAAAAAAAAAAAAAAGGCCGGAAGGAACC GAAA C C A A A A G G T T A A A A G GAA G GAAAAAAGGAAAACCAAGAAAAA A A G G G G A A A A A A A A A A A A G GAAAA $A \operatorname{AGGGAAGGGGGGAAAACAC}$ $G G A A C C A A A A G G A A A A G G G G G G A A A A T T G G C C A A A A G G A G A A$ G G G GCCCCGGCCGGAAGGAAGGAAGGGGGGGGAAAAGGAAGG A AAAGGCCAAGGCCAAGGAAGGAAGGAAAAAAGGGGCCCCGG G GAAAAAAAAAAGGAAAAAAAAGGGGGGAAAAGGGGGGAAAA G G A A G G G G G G G G G G A A C C G G G G G G A A A A G G A A G G G G G
GAAGGAAGGAAGGAAAAGGAAGGGGGGGGAAAAGGAAAAGG A A A A C C G G G G G G G G A A G G A A A A G G A A G G A A G G A A A A G G G G G G AAAACCAATTAAAAAAAAGGGGGGAAAAGGCCGGAAAAGAAA GGCCGAAAAAAAAGACAAATGGGAACGAAAAAGAAGGGAGGG A A G G A A C G A GAA $A \operatorname{G}$ GAAAAAAAAGAAAAGAAAGGGGAAAAAAA
 $G G C C C A G G A A A G A C G G A A A A C C G A G A A G A G G G G G A A G G A A G G$ A G G G G G A C G A A A C C G G A A A A C C A A A A GACAAC G GAA G GAA G G G GAAGAATGGAGGGAAAGACGGAAGGGGCCAAGGGGAAGAAG $A C G A C G A A G G G G G A G A A A A G G A G G A A C G G G G G A A G G C C G G A A$ G G A A A A G G A A C CAA A A A A A A A A G G G G G G G G A A G GAAAA G G A A AAGGAAAGCCGGAACCAAAGCAGGGGCCGGAAGGGAAAAAGG A A G A A A A G G A A A A G G G G G G G G G A GAGAAAAGGGAA A A A A A A A $\mathcal{A}$
 A A G GAAAAAGGAGGGAGGGGGGAAAAGGAAAGAAAAGGAAGA G G A A G G A A G G A A G G A G G G G A G G A A G G A G C C A A A $\mathcal{A} A G G G A G B A$ $A G G G A A A A G A A G G G G A G G G G G G A A G G C C G G C A G G G G A A A A G B$ G GAAG $A \operatorname{GG} \operatorname{GAAAAGGTTAAGGCAGGGAAAAAGAGGGAGGAAAA}$ G G G G A A A A C C A G G A G G A A G G A A A A G GA CA $\mathcal{A} G G G G G G A G C C G G$ AAGGAGAAGGGGAAGGAAAGGGAAAAAAAACCAAAAAAGGGG G G T TAA A G G GAAGGAACCGGAAGAGAGAAAAAAAGAAAAGAA G G G G A C A G G G G G G G G G G G G A G A A G A A C C G A G G G A A C C A A G C C A CA $A$ A A A $\mathcal{A} G G A A C C G G A A A A G G A G G G G G A G G G G G G G A A G G A A$ A A G A A C G G A G G A G G G A G G T A A A G G G A A G A A C C G G G G A A A A G G A GAGGGGAAGGAAAGAAAGGAGGGGGAGAAGGCCGAAAAAAA G G GAGAGCGGCCCAGAAGGAGGAAGGCCGAGAAAAGAGAGGG G G A A A G G G G G G G G A G A C A G GAGGGCCAAGGAAAAGAAACAAA G G G A G G A A C C G G A A G G T T A A C C A A A A A GAGAGGAGAGGACAA A GCCAGAAGAAGAGACCAAGGAAGGGAAAAAAGGAAAGGGGG G G G G A G C C A A G G G G G G A G G A A G G G A G A A C C G G G G A A A G G A A G A G TA A A GAGGGGGGAAGGCGAAAAGGAAAAGAAGCCAACCTT GCAGGACCCCACGGGGGGAAGGAAGGGGAAAAGGAGGGCCCC A G G G A A G G G A G G G A G A G G A A A A GACAGAAAAAAA AAAATXAG C C A CA GAAA A A A A G G G GAA GAAAAAAAGGAAAAAGGAA GAAA G G G G A A C A A G A G G A A A A A G C C C A CA GAA G GACAAG GCC G G G A $A A C C G G G A A A A A G G A G A A G G G G G G G G A A A A A A A A A A A A G G A A$

A A A A G GAACCCCGGCCGGTTAAGGAAAAGGCCAGGAAAGCBA GAGGCAGGGGCCAGAAAAAAGGAGAGAAGAGAAGAGAAGGAG GAAAGGAGACGACCGGACAAGGGGAGGAAGAGAAAGTTGGAC GAA A A A A GACTTCCGGCCAAGGAGAGGGAAAGGAGGGGGGAG $G G C A G A G G C C A A G G A A G A A C G G G G G G G G C A A A G A A G A G A A G G$ AA G G A A A A A A A A A C GAGAGGAGAGGAAAAACCAA GACAGGCC GAGGAAAACCAAAAAGAGAAAAACCCAAAGGGGGAAGGAGAA GGGGCCGGAAGGAGAAAAGGAAAGGGGAAAACGGAGAAGAAA
 $C \subset A G A A G G A A G G G A G G A A A A A A A A G G A A A A C C C C A A A G G C A A$ CAAAAAAAGAGGAAAAAAGGGAACGGAAAAGAAAGGGGAACC A A G GAA A A GACCGCAAGGAACCAAAAGAGAAA GAACGGGGGG A A G G G GAAAAGGCCAAGGGGAAAAAACCAAAAAAGGAGAAAA A A A G G A A G A A G G G GAGCGGAAACACAATGCGAGAACAAAGGA AACCGAAAAAGGGAGGAAAGAGGGCCGGGGGAGGAGACAAAA A GCCGAGACAAGGGAAAAAAAAAAGGGGGGAAGGTTGGAAGA $A C G A T T G G A A C C A A A A G G G G A A G A G G A G G A G G A A B G G G G G G G$ GAAGGAAGAAAACCGGAGGAAAGGGAAAAAAAAGAAACGGCC AAAAAAGGCAAGGGGAGAAGGGGGAAAGCCAAGGAGACAAAA A A A A G G G G G G G G G GCCAAAAAACACCGGGACGCAAAAGAAAG GAGGGGAGAAAGAAAGAGAAAAAACCGAGGCAGGGAAACCCC A A A A A A A A A A G G G GAAAACAAGGAAAAAGGAAAGAACCCC GA GA $\operatorname{G} A A A \operatorname{A} G C A G G G G G G G A A A A C A A A G G G A A G A G G C C A A G G G G$ A G G GCCGGGC GCACGAACAGCCGGGGAGGGAAACCCAAGGAA C C A A A A G G A A A C G G G G A A C A G A A A G GAGAGGGGGAAAA GAG G G GAC G GAAAAAAAAAAAAAAAAAAGGAGACGGGGCCCCCAGA A G G GAAAAGGGGGGAGGGAAAGAGAAAGATCCGGAGCCABAAA
 A A C A G GAA A A A G G G CAGAGGGGAAAAAAAAAAGGGGGGAGAG A GAAAAAAGGAACCGGGGAAGGAAGGCCAAGACCGBAAAAGG A A A A C A A A A A GACC GAAAGGCAAAACGAGGGAAAAGAAAAAA A A A A A A A A G GA A A A A A A A A A AAACAC GCAGACAGCCGGGAGG GAGGGGAAGAAAGAAAGGAGAGAAGGCAAGGGAGAGAAAA GA G G G G A A G G G G C A A C A A G G G A G G C C G G A A G G GA G G G A A A A G G G G G G G A GCCTTGGGAAAAAAAAAAAGAAAAAACGGGGGAAAGG A A A A G G G G A A G G A A A A A G G A A A A A A GCCGAAAAAAAGAAACC GAGGAGCCAAGGGGAGAAAACCAGACGGGGAGGAAAAAAACC ACGGAGAAAAAAAAGGAAGGAAAAGGAACCGGGGCAAGAAGAA GACCAACCGGAAAAGGGGAGAAGACAGAGAAGCCBAAAAAAG
 AAAGGAGAGGCCGGGGAAGGAAAATTGAGGAGGGCCGGAGAG A A G G G A A A A A G G A G G G A A C C G G G G A A A G G GAAAAAAA A GAAA $A$ $A G C C G A A A G G C C G G A G G A G G A A A G T A A A G G A A A A C C A A G G G G$ AACCGGGGGGAAAAGGGGAAAAAAAAAAAAAAAAAAAAAGAA GAGGGAAGACGAGACCAAAATAGGACGGAAAGACGAAGAAAA C C A G A C A G G A G G G A G G G G G G G G A A A A G G G G G G C C G A A G G G C C GAAAACAAGAAAACAAGGGGAAAGCAGGAAGGCCCCAAAAAA A GAAAGAAAGGGAAGGAACCAACCAATTAAAGACAGAAGGCC AAGGAAAGGAGAGGCAGGAGGAGAGACAAGAGCAAGAACCGG A A C C G G A A C C G G T T T T G GATCCAGAAGTTTCCAAAAGGAACA G GACAAAAAGGAAAAGCCAAGAGAAGGGCCCAAAGGAAGGAG A GAGAAGGAACAAGGGGGGAGGGGGGAACCCGAGAGAAAAAG A A A A A GCCCCAAGGAAGGAAAGGGCCAAAAAAAACCGGGGAA AA $A G A A A G G G A A G G G A G A A A A A G G G G G G A A G A A A G G G A A G G G$ AAGGAAGAGGAGGACAACACGGGAAACCAAACACAGAAGGAG A G G G GCGGGGGGAAAGAACCACAGAGAGCCGGAAGGACAGAA A A A G A A $\operatorname{A} G A G G G G G G G C A G G G A G G C A G G G G A A A A C C G G G G G G$ C C G GACGGCAACAGGAGAGGCAGGGGGGACAGGAGAAAAAGB G GAA A A A A G G G G GAGAAAAAAGGGCAAAAGAAAAGGGAAGGG

G G G G T T G G A A C C G GAGAAAAGGAGGGCCAAACCAAAGAAGAA CAAAAAAATTGGACAGACGGGAGAAAAAGGGGAAAGGGCCAG GAAAGGAAAGAAAAAACCGGAAGGAAGAGGGGGGAGAGAAGAG
 A GAACCAACCAAAGGAAGAAGGAGAAGGAAGGGGAGAAGGGG T T G GAAAA $A \operatorname{A} A A \operatorname{A} \operatorname{A} A A A G G G G G A A G A C A G G G G G A G C G G A G G G$
 GAAAAAAGAGGGGAGGGGGGAGAGAGGGGGGGAACCGGAAGA G GCCCCGGGGAAAACCGGCCAAAAAGCCGGGAGGGAGGAGCG GAAAGGAAGAGGGGGGGGAAACGGGGAAAAGGAGGGCAGGGG G G G GAAAAAAGGAAAAGAGAGAGAGGAAGGAAAAAAGAAAGG
 G G A A A A A A A A A C G G A A G G G G G G A GACGGAACCAGAAAAAA GA G G G G A A G A A G G GAA A G A G G GAAAAAGGAAGGGGGGGAGGAAA C T TAGGGAAAGAAGAAGAAAGGGAAGGGGGGGGGGGACAAAAA GGCAAGAACCAACCAAGGCCGGGGGGAAAAGAGGAGAAAAGA C CAA $A \operatorname{G} G A A A G G A G C A C C A A A A G G G G A G G G G A G G A A A G A A G G$ GAAAAAGGAAACGGAAGGAAAACACAAGAAGGCAAGGGGGGA GGGGCCAAAAAAGAAAAAGGAAAGGAGGAAAAGGACAGGGGA GAGAAAAAAAGAAGAAGGGAAGGAGGCCAAAGAAAAACAAGG G G GAACGAGGGGGGCCAGAAACAAAGGAAGAAGGGAGGBGAA
 G G A A A A A ACCGGAAAAGGAAAAAAAACCCCCCAAGGG
$G C C G G G G C A C A G G G A C A A A G A G A G G C A G G A A G A G G G A C A G G$ A A G GCAAGACAGGGGGAAAAGAGGGGCAAAACAGGGAAAGAA AACAAGACAGAGAGGGGGGGCGGAAAACAAAAGGAAAACAGG A G G G G GCCAGAGAAAACCAACAAAGGAAACGGAAAAGGGGTT GCGAAAAAGAGGGGGGCCAAGAAGAGAACGGGAAAACBCCCC G G A A G G G G G GCC G A G G G A G G G G G GCC G A A G C A A A C C G G G G G G GATAAAAAAAGGGGGGCCTAAGAAAGGAAAGGAGGAAAAGGG A G G G G A G A C A G GAACCCCGCGGAAGGCCGGGGAAAAGGEGAG AAAAGAGGGGAAAAGAGGAACCAAAAAAAAAAGGGGAAGAAG ACAAAAAATTGGCCAGCAAAAAAGGAAAAAGGGGGGAAACAA GAAGAGACAGAGGGAGGAGGCAGGAAAAAAGGAAAGAAACAA
 GGCACCCCGACCAAAAAAGAGGCCGAGGAAAGACAGAAAAGG G G G G GAAAGGACAGGGAGGACAGGGGAAGGAAGACCAAGGGA G GCAAAAATTCCAGGGGGAAAGGAAGAAGGAAAAAGCCAAAA G GCAAGGGAGGAGGCCGCACAAAAAAAAGGGGAAGGGAAAAG AACCAAAGAAGGAAGGAAGGGGGGAAAAAAAACCAAAAAAGG AAGGAAAAAAGGGGAAGGAAAAGGGGGGAAAAGGAAAAAACC A A G G G G G G A A C C A A A A G G G GAAAAAAACCGGAAAAAAGGCCCC AAGGCCGGAAGGGGCCAAGGCCGGAAAAAAAAAAGGCCGGAA G GAACCCCAAAAGGAAGGAAAAGGGGAAGGAAAAAAGGGGGG G G G G G GAAAAAAGGAAAACCCCGGAAGGGGGGGGAAGGAGAA T T G G A A A A G GCCGGAAAAGGGGAAAAGGGGGGGGAAAAAA G G C C A A A A G G A A G G G G G G C C G G G G G G C C A A A A $\mathcal{A} G G G G G G G G G G G$ GGCCAAGGAGAACCAAGGAGAAGAAGAAAGAGAGGGAGCCGA AGACAGAAGAGAAAAGAAAAGGAAAGGAGAACACGAAGAAAA GAGGAGGAGGAAAAGAGGGGGGGGGAACACACGAGGACAGAA G GAA $A \operatorname{GAAAACCCAAAGAAAGAAAGAAGAGACAGAAGGGGGGG}$ AAGGAACCAAAAGGAAAAAAACGGAAAAAAGGACAGCACCAA G GAACCGGGAGGGGAAAAAAAGAGACCCAAAAGGAGGGTTCC GACCAGCCGGAGAGGGAAAAGGCCAAAGGAAGCCGACGGACC $C \subset A G G G C C G A G G A G G G G G G G C C G G A G G G A G G A A A A G A A A A G G$
 G G G GAAAAAAGGGGCCGGGCCAAGGAGCAAGCAGAACAAAG $G G A A G G C C A A G G G G A A G G G G A A G G C C C C A A A A A A G G A A A A G G$ $C C G G C C G G A A A A A A G G A G G G G G A G G A G G G A A G A G A G G G A A C C$

G G G GAAAAGGGAACAAGAACCCCGAGGAAGGGAGGAGGGCA $C C G G C A A G G G A G A A A G G G A A C C A G G G A A C A G G C C A G G G A G A G$ ACAGGGGAAGGGGGAGCCAGGAGAGGAGACGGAAAAGAAAAA AAAAAAGAGGGGGGGGGGGGAAGGAGAGGGAGAAAAGACAAA A G GAGGCCCCCCGGAGAAGGGGGGGAGGGGGAA$G G G G A G G A G$ AAAAAACACCGGGGGAAGAGCAGGAAGGGGGGGGAAGAAAGG G G GAAACCAAAAGAGATAGGGGAAAACAAGGGAGGAAAAAAG $G G A A G A A G G A G G A A G G A A A A A G G G G G G A G G A G A G C C A A G A C C$ G G A A G G A A A A $\mathcal{A} G G G A G G G G G G C A G G G G G A G G G G G G G A G G G B A$ AAGGGGAAGGCAGGGGGAAAGGGAGGAAGAGGGGAAGGGGGG A A A A GAGGAAGCGGGGAAGGAAGGGGAAGGAAAGGAGAAGAC C C G G A A G G A GAGAC GACCGGAAGGAAGATTGGGAGGGGAGAA A A G G A A G A C C G GA G A C GAGAAGGAGACCAACAAGGGAAGGCA GAGAAGCCAAAGAGACGGGACAAGGACAAAAAGGGGCAAA GA G GAGGGCCGAGGGGGGAGGAAAAACCAGGGAGAGGAGAGGGA GAGGAAAAAAACGACAGGAGCCGGGGGAATAAGAAC GAAGAA A A G GCCAGCCGAAGAAAACCGGGGAGGAGGGAAAGGGGAAGA
 GAACCAAGAAAAAAAAGGGGGGAACCCCCCGAAGGAGGAAGAG GAGCGGAAGGAAGAAGGGAGCCAAGGAAAGACAGAAACAGAG G G GAGGGGGGAAGGCCGGGAAGAAACAAAACCGGGGGGCCGG G GAACAGGGGGGAGAGGGGAAGAGAAAACCAAAAGGAAGGGG GCGAAACCAAGGAAAAAACCGGGGGGGACCGACAAGAAGGAA G G G A G G A A G G A A G G C C A A A GAGAGAGGAAAGAAGCCAA G G G A
 G G GAAAGGAAAAGACAAACCAGACAGAAAAAAGAGAGGGGGG A A G G GA TAA A A A A A G G G GAA $A \operatorname{AGGGAAAAGGAAGGGGCAAAAA}$ G GAGAGGGGGGAACCAAAGGCAGGGAGGAAAGCCAAGGAABA CAAAAAAAAAAAAAGAGAAGAAGGAAAGAGGGGGGGGGAAAA G G G GACGGGGAAGGGGAAGAGAAGGGGGGGAGCAAAAGAAAA
 A A G G G GAA $A \operatorname{AGGGGGAGGGGGCCCCCCGAAGGAGGGGGAACAA}$ AA $\operatorname{Ag} \operatorname{Gg} \operatorname{GAAAAAAAAAAAGAAAAAGAAAAAGGAGAGAAAGGAA}$ GAAGGAGGAGAGAAAAGGAAAACCGAAACAAAGAAAGGGGAC A A A A A A A A G G G A CAA $A \operatorname{AGGGGGGAAGAAGAAAGGAGGAGAAAC}$ A GAACACAAGAGGGAGAAGAAAGGGGGGAGAGAGGACAAAAC GAGGGAAGGGCAAGAGGAAGAGAAAAGGGGGACCGGGACCGG A GAAAAGGAAGGGGAAGGGGAAAAAACCAAAAAAAAGGGGGG A A G GCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAGGAA G GAA A G G G A A G G G G A A A A G G A A A A G G G G A A G G A A G G G G A A G G AAAAGGAAGGGGCCAAGGGGGGAAAAGGAAGGGGGGAACAAA A A A A C C G G A A C C G GCCGGCCGGGGAACCGGGGGGAAGAAA G G
 A A G G G G G GC C G G G G G G G G G G A A C C A A A A G G G GC C C C G G A A G G GAACGGGGAAGGGAGAGAGGCCGAAAAAGGAAAGAGGAAAAG
 G GAA A G G G A A A A G G GAGGAAAAGGGGGGGGAAGGAACAAAGA AAAAAAGGAAAAAAGGAAGGAAAAAAAAGGAAGGAAAAGGCC AAAA $A \operatorname{A} A A A A G G A A A A G G G G A A A A A A A A A A A A A A A A A A G G G G$ G G G G A A G G G G G G G G A A A A A A A A C C G G G G G G G G A A G GAA G G G G AAAAGGGGGGGGAAGGAAAAAAAAAAAAAAAAAAAAAAGGAA AA $A G G G C C G G A A A A G G C C G G G G A A G G G G A A A A A A A A G G A A G G$ A A A A A A A A A A G G A A G G A A G G A A A A $\mathcal{A} G G G G G G G A A G G G G G G G G$ A A A A A A A A G GAAAACCAAGGGGGGAAGGAACCAAAAGGGGGG A A A A G GCAGGGGCCGGGGAAAAAGAAAAGGGGAAGGACAAAG GACCGGGGGGGGCCGGAAGAAAAGAAAACCGGAACCCCABAA C C C A A G G A A G G GAAAGATGGGAGGGGAAGAAAGGAAAA G GAAA G G A G A G G G C A G G G G A A A A G G C C G G A A G GAAAAAAA A G G G G G A G G GAAAAGGGGAGGAGGAAGAAGAGGAAGGAAGGAAA GAAGGG

AACCCCCCGACCAGGGGAAAAAGGCCCAATGGGGGGGGAAGG CA $A$ A A A $\mathcal{A} G G G A G G G C C G G G A G G A G A A G G G G A G A G G G G B A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGAGAA AAGGAAAAAAAAGGAAAAAAAACCCCACGCCAACGAAAGGGG G G GAAAAGCAAGGGGAGGGGCCGGAAAAGGAAAAAAAAGGCC AAGGGGAACCCCGGAAAACCGGAAAAGGTTGGGGAAGAAAAA G G G GCCCCAAGGAAGGAAAAAAAAGGCCAAGGAGAAAGAGAG A G G GCCCCGGCCAGAAGGAAGAGAAGGAGGAAAAAGACAGGG AAAGGAGGAAAAGGCAAAGAAGAGGGCAGGAAAGAAAACCAA AAAAAACCGGAGGGGGGGAGAAGGCCGGAAGGGAAGAGAGGA A A G GCAAA $A \operatorname{A} A \mathrm{~A} G \subset A A A A G G G G G A A G A A A G G A A C C A A G G A G A G$ GAAA $A \operatorname{A} A A A G G A A G G G A A A G A A A G G G A A G G C G C G A G G C A C A G G$ G GCAGAGGAAAAAAAAAGGGAAAAGAAACCAAGGGGGGGGGG G A A A G G A A G G G G G G A A G G G G A A A A G G G GAGGGGGC CAAAA G G
 AA $A \operatorname{GGGGGAAAAAAAGGAAGGGGAAAAAAAAGGAGCAAGGGGG}$ A GAGGGCCCCAGAGGGAAAAGAAGAAGGGAGGGAGGGGGGAG A A G G A A G G A G G G G GAAGGAGCCAAAAGGCCAAAACCAACAAA G G GAAGGAAAGAAAAAAAGGGGAAAAAAAAGGAAAAGGAACA AAACCCGGACGAGACAAAAAAAGGCCGGAAAAAAAAAAAAAA G GAAAACAAAGGAGGGAGAAAAAGAAGAACGAAGAGGAACAG G GAAAGAAGGGGCAAAAGAGAAAAGAAAATCAAGAGAACAAA A GAACCAGGGGAGGGAGGCCAGGGCAGGAGAAGGAAC
AAAAAGGAAAGCCCAAGGGACAAGGGGAAGGAAAGGGGAGG AGCCAACCAACCGGGGCCCCCCGGGAAGAAGGGGAACCAAAG GAGAGGAGGGAAAAAGGGCCGGTTAAGGGAAGAGAGGGCCGG G G G G T TAGGAAAGGGGAGCACAAACCGGCAGGGGAGAAAAAA G G G G G G G G A T A G G G A A A A A A A A G GAGGGGGGGGAGGAAAAA G G G G A A C C A G G G G A G A A A A G T T A GAGAGCCGGCCGGCAAGGGGG AAGACCGACAAACAGAGAGGAGAAAAGGAGGGGAAGAGAAAA A A G G G G G A C A A G A G G G A A A G G G G G A G A A C A GA G GAC G G G G A A G G G GAA A A A G G GAGAGAAAGGGAGACGGAGGAGAAAAAGGGA GAAAAACCAGGAAAAGAGAAAAGGAAGAGAGAACAAAAAAGG G G GACCGGGGAAGGGGAGAAGGAAAAAAGGGAAAGAAAGGGG G G G A A T A A G G A A A A A A T T A GAGAGAGGGAGAAAAAAA GAA G G TTCCGGAAAAGGAACCGGCAACGGAGGACAGGAAGAAACCAG AAGGAAAGAAAGGAAGAAAAGGACAGAAGGAAAAAAGGACAG GACGCAGGAAAAAAGAAGAAGGGGGGAGAAGAAAGAAGATCG AAAGCCAAAGAGAGAGACAGAAGGAAAAGGATGGGGABAAAA
 C C G GAGAGAAACGGGGAGGGAGAGGGAGAAAAGGGGGGAATX
 $C C G G A A G G G G G G G A G G C C A G A A A G G G G A G G G G C C G A G G C A A A$ C C GCGGGGGGAAAAAGAAAAACAAAGAAGGAGGGBAAGACBG AAAACAGGGGGGCCGACCCACCTTCCGGAAAAAAAACCAAAG GACGAGGAGGGAACAACCAGAGAAAGACACAAGAGGGAAAAC A G G G G A G G A G G GACGGCCACAAGACCGGAAAGCCCAAAAAGG AAGGAGGGAAGAAATACCAAGGATGAAAAAAAAAAAAACCAA A GAAGAAGGGCCACAGGGCCCAAAGGAAGGGGGGCACACAAC
 GAGGAAAAAAGGAGGGAAGAAACCAAGGGAAAAAAACAGGAA AA $A G A A C C G G A A G G A A A G G A C G C A G A A G G A G A G A A A A A A A A A$ GAGAGAAATTAAAAAAGAAAAAAAGGAAGGGGAAAAAAGGGG AAAAAGGGAAAAGGAAGGGACATAACAAGGAACCACAAGGAA AA G GAAAGAAATAAAGGACAGAAGAGACAAAGAGAGAGAACC A A A A A A A A A ACCAAAAAAAGAGAAAAGGGAAACCAAAGAGGG G G G G A A C CAA G GAAAC GAAAACCCGAAAGGAAGGGGGAAAAA G G G G A A A G A A G A G A A A A GCAGCAAAAAACCGAGGGGAG G GAA $A C G G G G A G C C G G G G A A A A G G G A G A A G A A G A C C G A C C G A A G G G$

G GAGGGCCGGAGGGAGGCAGAGGAGAGGAGGGAAGGAACCGG A A TAACGGCCAAGGGGGGAAAGACGGGGAAGAAGAACCAGAA $G G A A A A A A G G A G G G G G A A G G G G G A A A G G C C C C A A G G A G A A A A$ G G G GAGAACCAAAAGATAAAAAGGGACCGGCCCAAAGGAAAA GAAAAAAAGGAAAGAAAACCAGGGAGAGAGAGAGAAAAAAGA G GAGGGCCAGGGAGGAGGGGGGAAGGAGGAGACCAAGGAGAA G G GAAACCGGCAAGAGAGCCGGAGAAGAAGAAAGAGAGAGAA GAGAGGGGACGGGGGGAAGAAGGAGACCAAGGAGAAAAGGGA
 GGCACCGGAGCCGGGAAAAAAAAAGAAAACAACCAAGGCAGA G GAAAAGGGAGGGGGGCCGGCCAAAAAGGAAAAAAAAGAAGA A A A A A C G G G G A TA $A$ G A GA A G GCCGGAGAAGGCAAA GAAAAA G G G G G A A A G GCC G GAA A G G G G GAACCGGCCGGGGAAA GAA G GAA A A A G A A G G A A A A G GCCAGAGAGACGAGGCAAGCCAAGBAAGG A A G GAGAGGGAAAAGAAAGAAGAGAAAAAAAGAACCGGGGAA CAGGAGAGGGAAGACCAAGGAACGGACCAAAAAAAAGAGGAG C C G G A A G G A A G G G G A A $\mathcal{A} G G G G G G G G G A A A A A A G G G G G G G G G G$ A G A A A G A A A A A A A A A A A GCCCCGGAACAGGGACCAAGAGAAA AA G GACAAAAGAAAGGAAGGAAAAAACCGGAAGBAACCGGGG C G G G A A A A A G A GACAGAGAAAAGGGAAAAGGGACGGGAAAA G AGAACCGGGGGGCGGAAGACAAGGGGCAAAGGAGGAAACCAA G G G GAAAA $A \operatorname{A} A A A A A A A G G A A A G A A C A G G G A G G G G G A G A A G G G$ A A A A A A A A A A G G G G A A A A G A A G G G G A A A A G GA G G G G GA GA G G A A GACAGGGAAGAAGGCCCCAAAGAAGGACGAAAAAAACGCC GAGAGAGAAAGGAGACGGGGCCGGGAGGGGGGACAAAAAACC A G G G G G C A G G A A G G G G G G G G A A A C A C G A A G A G A G A G G G G G A G G GAAGGAAAGACGAGAAACAAAAAAGGGAAGGAAGAACAAAC G A A A A A A A A A A A A A G G A A G G A A A A A A A A A A A G GACCAA GAA G A A G G A A A A G GAACCCCGGGGGGACGCACGGAAAAGGGAAGAG AAAAGGAGGGGGAAGGGGAAGGGAGGAAAGAGAAAAAAAGAG G G G A G G A A C C G A GCA G A A A A G A A C G GAAAAAA A GA G G GAC G G AAGGAAAAAAGGGAAGAGGGGGAACCAGAAAGGGGGCAAACC G G GACCAAGAGGGGAAGGGGAGAAAACCCCAACAGAGGACGG A G A A A A A A A A C CAA $A \operatorname{GGGAGGAAGAGGAGAACCGGGGAGAGBA}$ A G A A A GCCGACCACAGAGGGGGGGGGAAGGAGAGAGGAAGCC A G G G G GAGAACCAGGGGAAAGACAAAAAAAAAGAAGAAAAGA GAGAAACCAACCGGCACAGGGGAAAGAGGGAAGAAGCAAAAC A G GAGGAAAAAACAGACACCGAAAGAAGAAACGAAGAAGGCG GAA A A A G G G G C C G A A G A GAGGGAGAGGGGGGGGGCAGAAA GA GAAACCGGGCAGAAGGAAGAGGCCAGATAAAAGAGGCCAAGG AAAAGGCCAACCGGCAGGGGAAAGGAAGGGGGGGGAAAAACC A A A A A CAGCCAAGGACAAGGAAGGAAAAGGAACCAAGAGAAG A GAGGGAAGGAAACCCGGAGCCAAGGGGGGGGCCGGAAGAAA G GAAAAGGAAAGGAAGACAAAGAGGGAGACGGGGAAAAAAAA A A A A G A G A A A G GAAACAGAGGGGGCCCCAGGAGAAAGGAAAA A A G G G GAAAAGGAAAAGGAAAAAGAAAGGAAGAGCCCAAAAA A A G G G G G C C A A C A A A A G G A A A GAA A G G G G GAAA A G G G G G G A A A A GAA ACAGGAGGGAAAAGAAAGGAGGGAACCAAATGAGACC ACAAGGAGGAAGCCGGAAAGGAGACGAACCGGGAGGCCGGGG A A G A A A A A A C CAAAAAAAAGGGCCGGGAGCCCCCCAAGAA A A GAGGAACCAGGAAGGGGAAAAAAGAAGGAACCAGGGAGAA A A A A A A A A G G G G A A A A A A A A C C C CAAGGGGGGCCGGGGAACC G G A A A T G A GAACGGAGGAAAGAGAGGAAAGCCAGAGGAAACC AAGGGGGGCAGGAGAAACGGAAACAAGAGGGAAAAAGGAGGG G G G GAGAAAAAAGGCCAGAGACCCGGAAGGAAGAAAAAGGAA T TAGAGCAGAAGAAGGGGGAAGAGAAGGGAAACAGGAAAGGE GGCCAGGGAAAGAAGGGAGAGGGAGGAGAGGAGCGAGGGAAA A G G GCA $\mathrm{C} G \mathrm{G} A \mathrm{~A} A A A A C C G G A A G G A G G A A A A G A T G G G G G G A G A A$ GACAGGGAAGAAGGGGAGACAAGGGGGGCCCCCAGGAAGAGA

GAAATACCGAAACCAGGAGGAGGGAAAGCCAGGGGGAACCGG AACCCCCCGGGAAAAAAAGGAAAAAAGGAAGGGGAGAAAAGG C GCAGGCCAACCAGAAGGGAGGAAAAAAAGAAGAAAACAGAC G GAA $A \operatorname{GAA} A A A A G G C C G G G A A A A A C A G G G A A G G G G G G G A G C C$
 ACGAGGGGAACAAGAGGGACAGAAGAAGACGGAAAGAAAAAG GAAGGGGGCAAAAAGGAAAAGGGGGGAAAAGAGATTAACCAG GAGGAAGGGAAGACGGAAAGGGGGGAGAAAAGAAGAGGACAA A A G A A G G G A G G G G G G A A GAA A GACAAAAAAAGGGGGCC G GAA AGAGCAGGGGAAAAAAAGCCGGGGAGGAACGGAGAAAACAGA G GACAGGAAGCCGGGGGGAAAAAAGGAAAAGGGGGGAGGGGA ACGGCAGAAGAACAAGGGAAGGGGAAACAAAGAAAAAGAGAA $G G A A A A G G A A G G G G G G A A A A G G G G A G A A C A G G A A A G G A G G A A$ A A A A GAGAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{~A} A A \operatorname{A} A A A A A A A G G A G G G G G G G G G A A C A$ A GAAAGAACCAAAAGGACGGGGGGGGGAAGAAAAAAGGTTAG A A G GAAAGAGACAGGGAGCCGGAAGGGGCAAAGGAGAGGGGG GAAAGAACCCGGAGGGGGCAAAGCCAAAAGAAGGAAGGAGGG A A A GAGGGAAGGACGGAAGGGAACCCAAGAGACCGGACAGAA AA $A G A G G A G A G G G G A A G A A A G G G G A A A A G A G G A A A G A A G G G G$ G G G G G GAAACGAAAAAGGAGAGAAAGAAACGGGGAAAAGGGG ACGGGGGGAAAACCGGGGGGAGGAAAAAAAAGGGGGCAAAAA G G G G G G T T A GAA $A$ A $\operatorname{A} G A A G G G G C C A A A A A A A A A A G G G G A A G G$

$G C C A A A G G G A A G G C C A A G A G A G G T A G G A A A A C C A A A A C C G A$ GCAACCAAGGGGGAAAAAACGGGGAGTAAAAAAAAAGGAGCA G GAAGGGGAACCGGGGAACCGAAGAACAGGGAGAAACCAAGA AAAAAGAAGGCCAACCAAAGAAAGGAGAGAGAAAGGAAAAGAA A G GAGAGACAGGAGGGAAGGGAAAGGGGCCAAGGAAAAAAAA A A A A A A A A A G GACCGGAAGAAGCCAGAAACGAGGGGGAGGAA $G G G G A A A G G A G G G A G G A A G A A G G G G G A A G A A C A G A A A A G A A G$ GAAGACGAGAGAGGGAAAGGAGAAAAAAAGGGAGAAGACAAA AAGGGGGAGGAACGAGAAAAGGGAGAAAAAAGAGGAGACGAA G G G G G G A G A G G A G G G A A G G G C C G A GAGGGAAAACAACCGGCC AAAGGAAGAGGGAGAGCAAAAAAGGGCAAAAAGGAAAAAAGG AAAGAGGGGAGAGGAAGAGAAGGAGAGACAACGAGACAAGAC CAAAAAAAAAGGGGAGAGACGAAGAAAGGGGGGGAAAGGGGG G GAGGGAGAAGGGACCACGGAGGAAAAAGGAAAGGGAGCAAA A G G GAAAAGGGGGGAACCGGAGAGGGAGAAGGCCGGAAGAAA A A A A $\mathcal{A} A G G G G G G C C G G G G A A G G G G A A C C A G G G G G G G A G A G A A$ G GAAAACCAACCCCAGGGGGGGAAAAGGGGAAAAGGGAAAAA A A G G A A G G G G G G GAG G A A A G GAA $A \operatorname{AGA} G A A C A A C C G G G G G G G G$
 GAA A A G GAGAAGGGAACCAAGGGGGGAGGGAAGGGAAAGAAG G GAA A A A GCCAAAAGGGGGGCCAGGGAGAGGAGGCAAAAACC AACCGGAGGGGGGGGGAAGGCAAGGGAGCCGGGGGGGAAAAA G G G G A G G G A G G G G G G A A A G G G G A A A A A G G G G G G A A A G G A G A A
 G G GACCCCCAAAGAGGGAAAGGCCAAGAGGGGAAAAGGGGAG $C \subset G A G G G G A G A A C C G G A A A A C C G A G G C C A A A A C A G G G G T T G G$ G G G A A GCCGGGGCCACGGAAAAAGCCAAGAAAAAACAGGGGG G GCCAAAAAAGGGGGGGGAAGGAAAACCGAAAGAGAAAGGGG A A A A G GCCAAAAGGGAGGGGGGAGAAACGGGAACAAGGGGGG A G GAAACCAAGGGAAGAGAAGGAGGACCGAAGAGGAAAGAGG GGAACCACAGGGAAGCAGGGGGAGAAAAAAAAACGGAAAAGA A A G A A A A C G G A CAC G G G G A A G G G G G GCC G GCCAAAA G GAGCC A ACC G A GAGGGAAACCGGGGCCGAGGGACCGGGAGAACAGCA
 A G G A G GA G GAA A A GAAATGGAGGGAAAAAAGGGAGGCAAA G G G G G GAAAAAGCCAAAGCCGAGGAACCAACCAGGGAAGAAAAA

A A A G A G G A C A G G A G A G G G A A G G G G G G G A G G A A A A GAA A A A G G A A C A G A A G A GCCA G G G A A A G G G T T A GACA GAACC GA G G G G A G $A G A G G A A A G G G G G G A A A G A G G A G G G A A A A G A A A A G G G G A C G A$ A GAAGGGGAAGGCACCAAAAAGGCCAAGAGCCAGCCGAGGGC AAAGACGGCCCAAAACGAGGCACAGGAGGAGGGGGAGGGGAG C C A TAGAAGGAAAACAAAGAGGGGACAAGGCAGGCCAACAGG AACCGGGGAAAAAAGAGGAAAAGGGAAGAAGGGGGGCAGGAG AAAAAGAGGAGAGGACAGAGGAACGAAGAAAAAAAAGGAAGA G G G A C C C C C C G GAAACACAGAGAGAAGGGGAGGGGAAAAA G G $C \subset A A G G G G A A A A G G C C G G A A C C G G G G G G A A G G C G A G G A G A G G$
 G GAA A G G G A A G A A A G G A G G A G G A G A A G G G G G G A G C C C A A G C C CAGGGAGGAGAACCGGAAAAGGGGAAGGGGAAAACCGGAAAA A A A A A A G A GAAAGGCCGGAAAGAGGGAAGGGAGGAGAAGAAG A G G GAA A GAGGAGCAAAAAAAGGGAAAAGGGGGGGGAGGGGG GGCAA GAAGGAAGAAAAAAGGGAAGGAAAAAGGGGAAAAAAA A G GA $\operatorname{A} G \mathrm{G} G A \operatorname{Ag} \operatorname{G} C \subset A A A A A A A G G A A G G G G G A C A G A A A G G G G C G$ G G A A A A A A G G A A A A G G G GAAGGCCGGGGAAGGAAAAGGAGAA C CAGAGAACCGGGGAGAGGGAAGGAGGGGGGAGAAAAACAAA G GAGAAGGCCAGGAAAGGGGGGGAAGGAAAGGGGGGACAAAA A GAGAAAAAAGAGGGAGGGGAAAAACAAGAGGGGGAGACACC G GAGGGAGGAACACAGCCAGAAAGGAGAAGCCAGACAGAGAG
 G A G G G G G G G G G G G G C A A G G G A G A G A G G A A G G A G G G G G A G G G G G GAACCAACAAAAGAAAGGGAAGGAAAGGGCCGAGGGGAGGG G GAA A GCCAGAGCAAAGGGAGGCCGGAAGGAAGAAAAGAGAG GAAAGAAAAGGGAGGAAGAGGAAATACCCAGAAAAAAAGGAG A GAA A G G G G G G GAAGACCACAAAAAAAAGAAAGGCCAACCAA A A A A G G A A G G G G G G C C G A G G A G A C G G G G G G G G G G A A A A G G G G GAAGCCGCAAGAATAGAAGGCACAAAAAAGAGGAGAAAAAAA
 AAAAGGGGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGCC
 GAA $A \operatorname{G} G A C G G G A G G G G A G A G A G G G A A G G G G A A G G A G C C G G G G$ G G G G G G A G G G A A A G A C A G G A G G G G C C G G G G G G G G A C C C C C C GAAGCCACCCAAAAGAGGAAAAAAAAAAGGGGGGAAGGGGAG C CAAAAGGCCAAAAGGAAGGAAGGGAGGAAGGCCAGAAGGAC AAGGAAGGAACCGGCCAAAAAAGAAAGAGGAAAGAAAAAGAG
 G GAGGAGGAGGACAAAGAAGACGAGGAGGGTAAAGAAAAGAA A G G G A A A A A A G G A GAGAAGGAAGGGGGGGACCGAAACAAATA C C A G G G A A GAGGGAGAGAAGAGAGGGAAAAAAAACAAAGGGG AGAATTCCAGCAGGGAGAAACCCCGGGGGGGGAGAGAACACC G G GAAAACGACCCAAGGGGAGAGGTTACGAAGGAAGCAGAAG CAAAAACCGGAGGGACGGGGAAGGAAAGAGGGGGAAGGAGAA GAACGGACAGGAAGAGACGAGGAAGGCACCAGAACAGGGGGG GGGAGCGGCAAGGGGGAAGGAAGGGGGAAAAAAAAAGAGAAA GAGGAGAGGGAGAAGGAACAGGAAAAGAAACCAAAAGGGGAA G GAAAA A A G G G G G G T T G GACAGGGAGAAGAAAGGGGGGCCCA $A G C A A G C A G A G A G G G G A A A A G G C A G G G A A A G A G G G G A G A G C C$ G G G A A A G G A A G G G G A A A A G G C G G G G A A A T TA G G G GACC G G G A A G G GAAAAAAAGTTACAAGGGGGGAAGGAGCAAACCGGAGAAA A G G G G GAACCAAAAGGGAACAAACCAAGAAAAAAGCCCAAAA TTAAAGGGGAATAAACGGCCGAAAGGGGAGAGAGAGAAAAGA AAAGGGAGGGAAGAGAGAAGAGAACAAAAAAAGGAAGGAAGA $A G C C G G C G C C G G G G G G A A A A A G A A G C G G A A G G G G G A G G A A C C$ G GAAA $A \operatorname{AG} \operatorname{A} A A A A G G G G G G G A A G A C G G A G A G G G G G A A G G A A G A$ G A A A G G G G G GCCGGAAGAAGCCGGAAACGGAGAAAAAAAGGG G GAA $A \operatorname{A} A G G A A G G G G G A A A G A G G A G G G G A A G G A A A C A G G G G G$

A A A A A GAAAAAAAAAAGGGGAAGGCCAGAAGAACGGGAGGAG G G A A G G G G A G G A C A A A GAGGAGGGAGAGACGGACGAAAAAA G A A G GCCCACACCGGGGGGAGGGGGCCAAGGCCGGGGGGGGGG G GAGGAGGGGAGCGAACCCCAAAAAGGGAGGGGGGAAAAACC GAAAAACCGGAAGAAGGGCCGGGGAAGGAAGAGGAGAAAAGA
 AA $A G A A A A C C G G A A A A G G A A A A G G G G G A G G A C G G A G G G A G G G$ G G G G A A A A G GAAAAAGTAACAAGAGGAAAAGGGGGAAAAGAG GAAAGGGAACAACCGGGAACCCGAAAAAGAGGAGAAGAAAGA AAAGGAAAGGGAAAGGAGGAAGAAGGGAAAAGAAAAACAAAA G GCCAAAAGGGGAAAGAAGAAAGGAGAAGGAAAAGAGACAAA C C G G A A C C A A G A A G G A G G G A G G G G G G C C G G G G A A G G G G G G C C G G A A A A G G G G A G A G G A G G A A G G A A G G G G A A A A A A A A G A A G G G
 AAAGAGGGGGCCGGAAAAGGGGAAGGGGAACCAAGGAAAGAC
 CAGGCAGAAAAGGGAGGGAAAGAAGAGGAAGGAAAAGAAAGG G GAAGGGGAAAAGGAAGAAACCAACCGGCCAAAAGGACAGAA $G G A A A A A A G G G G G G G A A G G A A G A G G G G G A G A G A A A A G G A G A G$ GACAAAGGGGAACCAAGGTAGGAGGGGGGAAGGGAGGGAAGA G G G G GAAAAAGGGGGAAAAAAAGACAACGGAGGGGAGGGAGG A G G G G A A G G G G G A GAGGGAAAGAAGAAAGGAGAGAGAGAAAC A A A G G G A G A G G GAGGGACAAAAAAACAGACAGGGGGC
A A A A A G G A A A A A A A A A A A A G GAAGGAGACAACCGGGAAGGA C CAC C GAGGGAAAGGCAACAGGGAAAAACCGGAAAAGGGGGA G GAA A GCC G G A A A G A A G G G G G G G G G G G G A A A A A A G G G A G G G G A A G G G GAGGAAGGGCAGGAAAAAAGGGAAAGGGGGAAAAGCC A GAA A G G GACCCCCGGGGCAAAGGGAAAACGGAAAGAAGAAG A A GACCGGAAGAAAAAGGGGGGAGAACCGGGGAGGGGAACAG G G G GAGGAAGACAGGGAAAAAAGGAAAGGAGAGGGGGGAAAA C C A A A A G G A G A CA $A$ A A A A A GGGGCCGGAAGAAAA GATAGAGGG G G G GAA A G G GAAACGGAAGGAGAGAAAAAGAAGAAGAACAAG G G GACCAAGCAAGAGGGGGGGGAAGGAACCCCAGGGGGAAAA
 A G A G G G C C G G G G G A G G A G A G A G G A G G G G A A G A A G G A G G G G A G C C G G A A G G A A G G G G G G A G A GAA A A G G G A A C G C G A G G G G G G G G AACCAAGGGGAGAGCCAGACGGGGAAAGGAGGGAAAGGAGGA ACAGGACAAAGGCCGGCCAACCGGAGAAAAGGAGGGAGAAGA A GAGAGGACCGGAGAGGAAGAAAAGGGGAGGAAAAGGACCBG A G A A A A C A G G G A A G G G A G G G G G A A A A A G G G A A G G G G C A T A A G A GAGCAAGCAGGCCAAGAGGGGGGAAGGAAGGGGAAAGGGGG A G A A C A A G G A G A G A A A A A G G G G A A A A C C G A G GAGG GAAAAA A AGGGGGGGACAAAGGCGGAAAAGAGGAAACGAGGAGGGAAGA G GCCAAAGGGAGGGAGGGAAGGGGAGGAAGGGGGGGAAAAAA A A A A A A A A $\mathcal{A} G G G G G G G G G A A A G A G G G G G A C G G G G G A G A C A A A$ A A G G A A G G A G G A A G G A G G G G A G A A A A A A G G G G A A A A G A A A A $G$ $G G C A A G A G G G G G A G G A A A G G G G A A G A A G A A A A A A A C A A A G G G$ AAAAGGCCGGGACCGGCAAAAGAAAGGGACAGAAAAGGGGGG A GAGACAGACGGAGCAGGGAGAAGGGGACAGAGGCCGBAAAC A GAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A G G A A G A G G T T A A G A G G G G G G G G A A C A$ T TCCAGAAAAGGAAAGAGGAGGAAACGAGGGACAAGAGAAGA GAAAAAAAGGCCGGGGAACCAGAAAAAGGGACGAAGGGAGAAG A G G A A G G A G G C A A A A GAGGGGGAAGGAAGGAAGAAACCACAA $C C C C G G A A A G A G G G A A A G G A C C G G A A A A G G A A A A G G A A G G G G$ A A G G G G A A G G G G G G G A A GAGAGTAAGCCGGAAGGGGAAAGAA AAAGGAACCAAGAAAGAAGGGGGGCACCAAGGCGACCACAAA AAAAGAAGAAAACAAAGAAAGGAGAAAAGAAGGAAGAAAAAG $A C A G A A A G T T A A A A G G G G G G A G C C G C G G A G G A A G A G B A G B A A$ $G G G G A G A A G G G G A A G G A A A A G G A A A G G G G G A A C C A A A G G G A G$

A GAAGGCCAAAAGGGAGAAAAAAGAGAGACAGGGGGAACCGG C CAAAAAGAAACCCAAGGCACCAATAAGGACA GAACGGAAGG G GAGAGAAAGAGGGGGCAAGAAGAGGACAAACACGAAGAGGG G G G GAAAAAAAAGGCCCAGAAGGAGGGAGAGAAAGGGGAAAA GAAAGAACAACCAAGGAAGGGGAAGGGGGAAAAAAGAAAAAA G G G A A G A A G G G A A G G G A A C C G G G A G G G A A G G G C A G G G G G G G A C C GAGGGGACAAAGCAGACCGGAAGAAAAACGCGGGAAAAAA A A G G G G G G A A A A A A A G GAGGAAGGAGCCGGGAAAGGGGAAAA G GAAAGGAGGAGGAGGGGAAAAGGAGAGGAGGGAAGAAGGGG G G GAAAAACAGGAGGGAAGGAAAGAAAACCGGAGAGAAAGGG GACCAAAAAAAAGGAAAGAAGAAAGGACGGAAAAAACCGGCAA A G G G G GAA A GCCCACCAAAAAAGGAGAGAAAAGGGGGAAGGG C C C C G GCAA $A \operatorname{GGGGGAAAGAGGGAAAAGGAAGGCCGGGGAAGA}$ $A G A A G G A A A A G G G G G G G A A G G G G G A A A G G G G G T T A A G G A C A A$ $G G C C A A A A G G C C A A G A A A A A A G G A G A A G G A A A G A A G A A A G G A$ A G G GAA $A \operatorname{GA} A A G A G G A A G G G G G G G A G A G A A A G G G A C A A G G G G$ G GAGAGACGAGGACAAGAAAAGGAAGGACAAAAGAGGAAAAG A G A A A G G GCCAAGAGGGGAAAAAAGGCCGGCCAAACCCAGAAA $A G A G A A A A G G A G G G G G G G A A A A G G G A A G A A C G G A A G G G A G A A$ G GAACCGGAAGAAGAAAGGATTCAAAAAAGGGGAAGGGGGAG G GAAAAGGAAACGAGGAGGAGGAGAAGGAGCAAATTACGAGG G GAACCAACCTTGGAAAAAAGGCCAAAACCAAGGACCCGGAG AA $\operatorname{A} G A A A G G G G A G G G G C C A G G G A A A G G A G G G G A A A C G G A C A A$ GAAGGGGGGGAGGGAGGGGGAAAAGAAAAGCCAAGAAAAAGB G GAAGGAAAGAGGGAACGCCAAGGGGAGGGAAACCCCCACAA G G G GCCGAAAGGACAAAAAAAGAGAAGGGGGAGGAGAACAAC G GCCGGAACCGGAAGGAGAAGGGGGGGAAAAAAAAAGGGGGG AACCACGGGGAAAAAGAGGGAACCCAAGGGGAAAAACCGGGA G G G GCCGGAAAAAACCGGCCAACCAGGGGACCGAAGCCGGGG G G G GAGCGAGGAGAAGGAAAAGGGAAGGGGAAACAAGACAGB A GAGGGCAGACAGGAAGAAGAAAAGGTTCCGGGGCCCCBGAA G G G GAAAAGGGGGGCCAAAAAAAAGAAAAACGGAGGGAGGGA A A G G G G G G A G G G G G A A A A A A A A A A A A G G G GAAAAAAAAAA A A C C G G G G G G G G A A G G G G G G A A G G A A G G A A A A G G G G A A A A G G A A A A A A G G A A A A A A G G A A A A G G A A C CAAGGGGCCCCAAAAGGCC A A G G G G G G A A A A $\mathcal{A} G G G G G C X A A A A A A G G A A G G G G G G G G G G G G$ G GCCGGGGAAAAGGGGCCAAAAGGAAGGAAGGAAACAAAGAG A A A C G GAA A G G GAGGGGGAAGAGGGAAACGCCAAGGGGAGCA GAAGAGAAGAGGAGGGAGAAAAAAAAAACCAAAAGGATAA GA GAAGGGAGCCCCGGAAAAAAAAAAAAAAAGGAAAAAAGAAAA GAAGAGAACAAACAGGAAAAGGCCGAGAGGCCAAAAAAGAAG
 G GAAAAGGGAGGAACCGAGGGGAAGAGGGGAAGGAGAAAC AA
 GAGAAGGAAAGAAAGGGACCGGGAGGAAGGAAGGCAAAAGCC A CAG G A A A G G G A G A G G G A A A A A A A C C G G G GACAG GAA G G GAA
 AAAGAAAACCAGAGCCAAGGCCGACCAAGGAGGGAGAGAAAA G G G GAA A A GAA $A \operatorname{A} A A A A A A C C G G G A A G G A A G G A A G G A A A A A A$ G G G G A A C C A A G G G G G G A A $\mathcal{A} G G G G G G G A A G G G G G G A A A A A A G G$ A A A A A A G G G G A A A A A A G GAA $A \operatorname{AGAAAAGGGGAAAAAAGGAGAA}$ G G G G G G G G A G G G G G A GAGAGGAAAGAAAGGACGGGGAAAAAA G G A A A A A G G G A A G A A G G G C C G G G G G A A A C C G G A G G G A A G G C C GAAAGGAAGGAAAGAAGGGGAAAGAAAAAAAAGAGGAGAGAG G GAA $A \operatorname{GAA} C \subset G G G G A A G A G G G A A A A G A G A G A A G G G A G G G G G G$ ACAAAAGGAGAGCCGAGACCAGAAGGCAAAAAAAGGGGCCGA
 C C G G G G G G G G G G A A A A A A A G G G A A A $\mathcal{A} G G G G G A A A A A A G G G G C C$ $G G C C A A A G G G A A G G A A G G G G C A C C G A C G G A G G G G C C A A C A A G$

AAAGGGAATTGGAACCAACACCGGAAAAAAAGAGGAGGGGGG G G A A A A C C G G G GAAAGGGAACCAAAAGAGGCAGAAGAAAA G G
 G GAAGGCCAGAGAGGGAGGGAAGGGGGAAAAAAAAGAAGGTT $C \subset A A A G G G A C G A G G C C G G A G G A G G G G G G G G G G A A A A A A G A G A$ A A A GAAAAAGAAGGGCAAAGGACAGGGGGGATAAGACAAAAG
 AAACAGAGGAAAAAGGGGGAGGGGCCGGCCAGCACAGAAGAG GAAAAAAAAAGGGGGGAAGGGGAAAAAAAAGGGAGGGGGGGGG AACGGGAAGGCCAAATCAAAAGGGGACCGCAGGAGACAAAAA G G G G G G G G G G G G G G A A A A GAAAC CAAAGGAAGGAA G GAA G G C C A A G GAAACGGCAGGGAGGAGGGGGGGGGAAGAGGAGGGGGGA G GAA A G GAGGCCACAGGAGAGGGAAGAAAAGGAACCAAATAG A GAGGACAGAAAGGCCAAAGACGAGAGAAAGGGGCAGAAAAA G GAAGGGGCAAGAGGGGGAAGGAGGGGGGGAAAAAACAAGAA A A G G G GAGGAGAGAAAAAGGAGGGAAGGGGAACCACGGAGGB G G A A A A G G G G A G A A A A A A G G G G G G G G A A G GCCAG G A GAA A A A G G A G A G A G G G G GAA $A \operatorname{GGG} G A G A G G G A A A A C C A A A A G G G G G G C C$ GAAGGGGAGAGAAAAAAACCGACCAAAAAAGGGGGGGAAGAA G GAA $A \operatorname{AA} A G A G G G G A A A A C C G G A A A A A G G G G G G G A G A A G G A A$ G GAGAAGAGGGAGAACGGGGGAGGAGAGCAGAGAAGGGGAGG GAGGCCAAGAGAGAGAGGACGGGAGAGGGGAACCAAGGCAAA G G A A C C A A A A A A C C G G G G G GCCAA $\mathcal{C} G G G G A A A A G G G G C$
CAAAAGGGGAAGGGGGGGGCCAGGGGAAGACGAAAAGGGAC G GAAA $A \operatorname{ACCG} \mathrm{C}$ GAAGGGAAGGGAAGGAAGGAAGGAAAAAAGGGG AAAAGAAGGGAGGGAGAGGGGGAGGGAGGAGGAAGGAAGAAA GAGGCCAAGAGGGGAAAGGGGGAAGGAAAAGGACCAGACCGG A GAAAAACAAAAAAAAAACACAGAGGAGAAGGAAAAACGGGG
 AAAAGGAACCGAAAGGAAGGGGGGGAACAGGGCGAAGAGGAG
 G G G GAAAGAAGGGGAAGGGAAGGAAGAAAGAAGGAAGACAAA GAACAACCGAAAAAGGCCAAGGGGGGGGGGAGGGCAGGAGAG
 G G G G A A G G A G A GA G GAAA $A \operatorname{A} G A G A C A A G A A A A A A G G G A A G G G G$ C C A G G G G GCGAAGAAGCAAAAGGGAAGAAAAAAAAAGGAGGA A G GAA A GACCGGGGAAGGGGGAAAGGCCAAAACCCCGAGAGAA G G G GA GAGAAA GAGAAAAGGAAGAAAGGGGAGCACACACCAC G G A A A G G A G G A GAGCCCAAAAAAAGGGGCAGGAACCCAAA G G $G G A G A A A A A A A A A G G G A G A A A A A A G A G G G G G G A G A A A G A A G G$ CACCGGAAAGAACCGGGGGGGGGGAAGGGGAAGGGAAAAAAG A A G G G A G G G G G G A G C C A G G G A G A A GAA A G G G G A A A $\mathcal{A} G G G G G G G$ GAGGAGAAGGGGAGGGGAGAAAGGAAGGAAGAAAAGGAGAAA CATAAAGGGAAAACACAGGAGGCACCAACCGGGGGGAGAAGA GA $A \operatorname{GAA} A G G G G G A G G A C A A A A A G G G G A A A T A G C G G G G G C C B A$ G G G A G GCCAAAAAAACAGACAGGGGGGGCCGAGGAAGGAGAA A A A A A ACAAGAAACGGGAAAAGGACCAGCCGGAAAGAAAAAG ACAGGAAGCAAGGAACAAACAAAGAAAAGGAGGGAAAAGGTT G GAACCGAGGAAGAGAAGCCCCGAGGGAAAAAAACCGGGGGG G GAA A G G G G GAA A G A A A A A A A A A A A A A A A A A GAGGGAGAAAA
 AC G G G G G GAAAATTGGGGCCAAGGGGAAAAAACCGGCCAGAA G GCAAAAAAAAAAGCAAACAGAGAGGGGAGAGACGGAGTTAA AAAAGGAAACGGAAGGAGGGCAATGAACGGGAAGGGGGGGAA GAGAGGAAGGAACCGAAGCCGAGGACGAAGAAGAGGCCAAGG G G GAGGAACCAAAAGGAAGGAAGAAGAAAGAGCAGGAAAGGG A A A A A ACCAGAAAAGGGGCCGGAGAAGGAGAACAAAAAGGAA A G G G A A C C G G G G A GAAGGAACCAAAAGAGGACGCAAAAAA G G AAAAAAAAAAAAAAGAGAGAAAAAGAAGAGAGGGAAAAGGGG

TACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAAA A A G GAA A G GAA $A$ A A GAA $A \operatorname{GAAACCGGAAAACCGAGGGGCAAAA}$ G G G GAAAAGGCAAGAGGAAGAAGGGGGAAGGGGCAAGGAAAA AAAAGGAAGGAACCGGGGGGGGAAAAAAGGGAGGAAAAGGGA A G G GAA A GAGGAAAGGGGAAAAGGGGGGAACCAACCAGAGAC G GCA GCGACCGGAGAAGAGGCGGGACGAGGGGAAAAAGGGGG C C C C A A C A A GAAAACCGGAAAAGAAGGGGGGGCCAAGGAAAG GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACCAACA GAAA A A GAAA G G GAAAAAGAGAAGCCAGAGGGAGAAGGAACA AAGAAGAGGGGACCAGACGAGGGAGGGGGGAGGAGCACGCAG GAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAGAAAAGAG GAAGGGAAGGAAAAGGCATACACCAAAACCTAGGAGAAAAAA CA $A \operatorname{GAAAA} A G G G G G A A A G A A A C C A G G G G G G C C A A A A C C A A G G$ C C G G G G G G A A A A G GAACCAAGGACGAGGAAGGGGAGAACAAG AAGGGAAGGAGGGGAGAGAGCCGGAGGGACGAGAAGAGGGGG A A A A A A A G A A A ATTAAGGGGGAAGCAGATTAAAAAAGACCAA A A GAAAGAAACCAACCAAAAGGGGGGAAGGAAAAAGGAACGG G G G G C A T T G G A A G A G G A C G C A C A A A GAAA G TAAAAA G G G A T T A A ACAACCAAAAAAAAGGGGAAGGGGAAAAAGAAAGCAGGGG A A A A G G G G G G G A G G A G C C G G G A A G G GAGGAGAAAAGCC G GAA A A A GAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAAGA A GAAAAGAGACAAATAAAAAGAGGAAAAAAAACCAAAGAGAA A GAACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGGGAA
 G G G G A C G G A A G G A A A A A A GCGGGGAGCCCCAAGGGACCAGAG G GAACCCGAGGCAAGGAGAGGAAAGGGGGGAGGGGGAAGGGG GAAAAAAACCAAACAGGGAAGAAGGATTGAAAAAAAAGGGAC A G G GAGCCACGGGGGGGGAAAAAAAGAAAAGGAAAGGAAGCA
 CCAGAAGGAAGAAGGGAAGGAAAAGGCCAAGGAAGAAAGGGG A A A A A A A G GAA A A G GACCAAAGAGGAGGAAGGGAAGGGAAAA AAGAGAGGGGAACACCGGGGGGCCAGAGGGAGAAGAAAAGGG A A G G G GAA A GAAGGGGCAACAAACAGGGAAAGAAAGGAAGCC AA $A \operatorname{GAA} A G G A C C A A A A T T A A G G G G G A A A G A G A A G C C G G A G A A$ A A GAGAGAGGAACCGGAGCCGGGGAGAAAGAAAAGGAACCGG A G A A A A A A A G G A A A A A A A A A GAGGGAGGGGAAAAAA G GAAAC A GTACCAGGGACAGAGCCGAAAGGGGAAAAAGCCGGAAGGAAA $C \subset A A G G A A C C G G A A A A G G G G G G A A A A A A C C G A G G G A G A A A A A$ GAGAAAGGGGAAAAGACCAAGGGGAACAAACCGGGGGGAABA G G G G A A C C G G A C G G G G G A G G G G G G G A G A A A C C A C G A A G A A G G AA G G A A A A A A A A A A A A A G CAA G GAGGAGGGCAAG GAAGGGGG A GCCGGGGAGAAAGACGAAAGGAAAACCGAAACCGGAGAGAA GAACGAGGGGAAAAAGCAACCAGGGGAGAGGGAAAAAAAGGA GAAGAGAGCCGGAAAAGGAAGAAGACAGGCAAAAGGAGAGCC A GAA A A GAGGGAGGGGGGGGAAAAGGCCAAAAGGCCAAGACA GAAAGAGGAAAAGGGAGGAAAAAAAAAAGGGGGGAAAAAGGG G GAAGGCAAAAAAAGGAAGGCCAAAAGGAAAAGGAAAAAAAA G GAAAGGGAACCAGAAGGCCGAGGGGACGGAAGGAGGGAAGA A GAGAGGGCAGAAGAAGACCAAGGAACCGGAAAGCCACAGAA $C \subset G A G G A A A A G G C C A G C C G G G G A A G G G G C C G A G G A A G G A A A G$ C CAA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} G A A A A A A A G A G G G G G G A G A C A G G C A G A A A A G A A$ AA $A G C A A G C A G A G G G A A G G G A C A A A G G G A A G A G G C A C A G A A A$ CACCCCATCCCCCCGAGGGGAAGGAAGAAGGGGGGGACAAAG A GCCGGGAGAGGAGGGCCAAAGGGAAAAGGCCAAGGAAAGCA GAAGAAAGGGCCAACAGAAAAGAAAAGACGAAAATTAAAGEG A GAAAAAAAGGGAAGGGACCGGAAAAGGAAAGACAAGAGGCA C C G GAGCCGAGGAAAAAGGGGGAAGAGAGACAAGAAAAGGGG AGCCGGGGAGGAGGGGCCAGAGAAGGACAGAACCAACCAAAA A GAGAAAGGAAGAACAGAGGAAGGCCAGGGGGACAAAGAAGG

GAGGGGAAGGGGGGGAAGGGGGGGAAAAAGAGAAAAGAACAA GAGGCCGGGGGGGGGGGGAGAGAAAAGGTTGGAAAAGGAAAA G G GAGAAGAGAACCGGAGGGGAAAGAGGAAAGCCAAAAAAAG G GACAAGGAAAAGACACAGGGGAGGAAGTAAAGAAGAAAAAA AAAACCAAAGGAGAGAAGGAAAAGGAAGGGGAAGAAAAAGAA C CAA $\operatorname{C}$ GAGAGAAAGAACAGGAAGGCAAACGAAAGAGGGAGAA G G G GCCAAACAAGGAAAAAAAAGAGGGGAAAAAAAAGGGGGA A G A GAGGGGGGGGGAGGGGGGGGGAAAACAAAGGAACCAAGAG G GAA A GAAAAAAGGGGAAAAAAAGGAGGAAGGCCGGGGBAGA ATAAAACCCCGGGGGGGGAAGGACACGAGACACCAAGGTTAG GAAAAAGGGAAAAGGGAGAAGGAACCAAGGGGAGGGGGGGGG A A G G T T A A C C G G G G A G A A C A A G G G C C G G A G A A A A G G G G A A G G $A G C C A A G A G A A G C G A G G G G A A G G G G G A G G G A A A A A A A A A A A G$ A A G G G G A G G G A A $\mathcal{A} G G G G G G G G G A A G G G G A T A C A A G A A A G G A A$ G G A A A A G G A A G G G G G G G G G G G G A C A GAACCAGAAAAAA G GAA GAAAAAGGACAAAAGGAAACCCAACATTCCGACCGGGGBAAA
 AAACAAAAAGGGCAAAAAAAAAGGAAAAAAAAGGGGGGAGAA GAAAACAGCCAAATGAAAGACAGCAAAAGGGGGGAAGGAAAA CAAACCGACCGAAGCCGGAAGAACAGGAAAACAAAAAGAGAG AACACAAAGAAAAAAAGAAGAGAAGAAAGGCCAGGAAAG GAC AA $A \operatorname{GA} A A C C C A G A A A A G G A G G C A A G G G G A A A G G G G G G A A G A G$ C G C C G G G G A A A A G G G G G G G G G G G G A A A G A GA A A A A A G
G G G A A C C A A G G G G A A G G G G C C A A G G A A G G A A T T C C G G G G G G CAAAAGAGAAGAGGAGAAAAAGCCGGGGGAGAGAACGGAAGA G G G GAA $A \operatorname{GGGA} G \operatorname{G} G A A T T C C A A G G A A G G G G A T G G G A A G A A C C$ A A A A A A A A A G G A GAA $A \operatorname{Ag} \operatorname{Ag} \operatorname{GAA} A G G G G A A G G A A A A A A A A G G G G$ C C A A G G G GCC G G G G C A GACAGGGGGAAACCAGAAA GAC G GCC G G GACAGGCAAAAACCAAAGGAAAAAGGAGGACCGAGCAGCC CACCCCCCGGAAGGCCGGGGAAGGGGAAAACCCCAAAAAAAA G G C C A A A A A A A A A A G A A G A G C C G A C C G G A TAAA G G G C C C C G G G G G GA G A A A GCCAAAAGAAGAGGAAGCAGGAGAGAGCCAACC G G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A}$ GAAGGAGAAGATXGGAAAAGGAAGGGGGGCAAA G G G A G GCCAAAAAGAGAGGGAGCCCCGAAGGAAGGAAGACGB C CAGGGAAGGAACCGGAAAAAAGGGGGAACAAAAAAAGGGGG $A C A G A G A G G G A A G G G G A G A A G G A A G G G G G C G G A G C C A A G G A G$ ACGGCAGAAGCCAAGGAAAAAAAGGCGGGGAGGAAAAGAAGG A G G G G G G G G G A A G GAAAAC A CA C G GCCAAGGGGGGCCGGGGCA G GCAAACCAAGAGAGGGGAAGGACAGAAGGGAGGGAAAAAGAG G G G A A C G G A A A C G G A A G GAGGAGGCCAGGGAAAAACAA G G C C $C C G A C A A A G G A A G A A G C C G G G G A G G A G A C C G G A A A G G G A A G A$ $A G C C G G A A G A A A A G A A A G A G C C G G G G A A G G A A C A A G G G G A G G$ AAGGGGACAAAGGGGAAAGAAGGGGGAAAGAAACGGAGAAAA
 G G A A $\mathcal{A} G A G G G G G G G A G G G G G G G C C G A A C A G G G G G G B A G A G A G$ A A A A G A A G G G G G G A A G G A A A A A G G G G G GAACCAGAAGACC A A GAAACCTTGAAAGGCCAGGGAAGGAACGGGAAGAA GAGGGCC
 GAGGGGAAGAAGGAAGGAGACCGGCCGAAACCGGGGAAGAAA
 $A C G G G G G G A A A G A G G G A A C C A G A G G G G G G G G G A G G G G G A G A A$ G GAAACAAGGGAAAGGAGAAACAGACAAGAGGGGAGGGAACAC G GAGGAGGACGGAAAAGGAAAAGGCCGGAAAAAGAGAGBAAA A G G G G GAAAGGGATAACCAAGGAACCAAAAGGAAGGGAGAAG CAAAAGGGAAGGGGGAGGCCACGGAAAAAAAACCGGAAGAAG C C GGCAGACCAACCGGAAAAGGCATTAAAGCCAAACCCAGAG G G A A A A G G A A G G G G A A G G G G C C G G A A G G G G G A G A A A G G A A G G C C A A G G G A C C G G A A G G G A G G G G A G A G G A A A C C G G G G G A G G A G G GAA A G G G G GAAGGGGAAGGGGAACCAAGGAAGGAAGGAACC

G GAAAAAAAAAAGGGGGAAAAGGGGGGGAAAGGGAAAGAAG G G T T G G G G G G G G A A A A G GAA A GAAAAAAAGGGGAAAA G GA G CA A A G G G A GACGACGGGGAAAAAAAGACCCGGGAGAAACAAAGG AAAA A A A A GAGGAA G GA A GAAAAAAAGAGGGAGAAAGAAACAA G G GACAAAAGGGGGAGAAGGGGAAGAGGGACAGGCAAGAACA TATTGGAGCCAACAAAGGCCGGAGAAAGCCAGGGGACCAABA G GAGGGGGCCGGAACCGACCGGGGGGAAAAGAAAAACACAAG $G G C A C C A A A C G A G G G A A G A A A G A C A A G A G G G G G G A A A A A A G G$ C G A A G G G G G A A A G G G G G A A A C A G G G GCC G G G G A A A A A A G G A A AAGGGGGGAAAAAAAAGGGGGGGGAAAAGGGGAAAACCACAA G G G GAAAACCGGCCCAGGGAAAAAAAGAGAAAAAGGAAGGGG G GAA $A \operatorname{GAAAA} G \mathrm{~A} A A A A A C C G A A G G A G A A G G G A G G G G G G G A G G$ GACCGAAGAGGAGGGGAGGGGGGGAGAAAGACGGAAGGGGGA G GAAGGAACAAAAAAACAGGCAGAGAGAGACAATGGGGAAAA G G G GAA AGCCAAGAAACAGGCCGGACAGAGACAAACAAAAAA A A G G G GAA A G G G GAA $A \operatorname{AGGGAAGGGAGAAATGGAACAAAAAGB}$
 A A A G G A A G G G G GAA A C G A G G GCCCAACCGGGGGGAA GA G GAA AAAAGGAAAGGGGGAAAACCGGCCAGAAAAGAAAGGCAAAAA ATAAAGGGAAAACCAACCGAGGCCGAAGGGGGGGGAGCACBG AAGAAGGAGAGGACGGGGGGGGGGGGGGGGCCGGAAGAGAAA
 A A C C G G A A G G G G G G G G G G G GCCAAAAAAAAAGGCCAAGAAAGG A A A A A A C C G G A A A A A A C C G G G G G G G G G G G G G G G G G G C C C C A A G G G G G GCCCCAAGGGGAAAAAAAAAAAAAAGGAAGGGGGGGG AAAAAAGGAAAAAAAAAAGGTTGGGGAAAAGGAAAAGGGGAA AAAAAAGGGGAAAACCGGGGAAGGAAGGAAGGGGAAGGAGAA G G G GAACCGGCCAAAACCCCCCGGCCCCGGCCAAGGAAGGGG AACCGGAAAGAAAAGGAGGGAAAAAGGGAAGGAGAAACAAGG A GAGGAAAGGCCAAAAAAGGAAGAAGCAAGAGGGGGAGAAAA $A G G G A A G A A G G G A G C C A A G G A G G G G A A G G G G A G A A G A A A G G G$ AAGGAAAACCAAAAGGAGAGGAAGAGCAAGAAAGAAAAAAGA
 G G A A C C G A G G G A G A A G G G G G A A G G A A A A G GAA $A$ G A A A G C A G G G GAAAAGGAAAAGGAGATGAGGACAAGGAAAGAGAGGGCCGG
 A GCAGAAAGAAAAGGAGAGAAGGGAGGGGAGGGAGAAGACAG
 GAAA A GAGACGAGAAGGGAAGAGGGGGGAAATCCAAAAGGAA
 A GACAAGGAAAAAAAAGAGAGGCCAGAAGGGGGACAAAAACC G GAGAGAAGGAGCCGAAAAAGGGGAAGGGGGAAACCAA GAAA G GAAAGGGAAGGGGGGCAAGAAAAGAAGAGGAGGAGAAGGAA
 A A A GAA A G G G GAGGGGAAAACCGGGAGCGGCAAGAAAAAAGG
 A A A A A A A C G GA GA G G G A A GAACACAAGGAGAAGGAAGCGGAC A A A A G G G A G G A A A G A G G G G G G G A A A G C C A G G G G G G A G G A G A A AAAAGGGGCAAGGAAGGGGGAGGGAGAACCGCCCACACAAGB ACGAAACGAAAAAGAGCCGGGGCCAAAGAAAGGGGGGGAGAA T T G G G G A A G G A A A G G G G G G G G G A A A CA $\mathcal{A} A A A A A A A A C A G G G G A$ C CAGGGGAGGCCAAAGGAACAGGGGAAGAAAAGAAAGAACAA A A A T G A C C A A G A A G A A G G G A G G A G A A CAG GAA G GAA G G G G C C A A A A A ATTAAGGAGAGGAGAAGAAAAAAAAGGAACCAAAAAA AAGGAAGGAGGAAAAGGGCCAAGAACGAGAACGAAACAAAAA
 T T C C G G A A $\mathcal{A} A G G G G G G G G G G A A G G A A G A G G A A A A G G G G G G C C$ $G G A A G G G G A A G G G G A A A A G G A A G G G G G G G G G G A A A A A A G G G G$ G GAAAAGAGGGAGGAAAAACAAAAGGGGGGGGAGAAAACCAG

A GAAGGGACAGGGGGGAAAGGAACAGAAGGCAAAGGCAGAAG A ACCAAGGAGAAAAAGAAGACAGAGAAAGAGGGGAAGACAAA $A G A A A A C A G A G G A A C C G G A G C C G G G G A G G C A A G G G G C C A A G G$ G GAA A G G G G GAAGAGGAGAGAAAAACCCGGCAAAAAAGAAGA G G G GAAAAGGGGAAGGGGAAAAGGCCGGAAAAGGAGGAAAAA G G G G G G G G G G G G G A A A G A A A A G A A A GAGAC G GAGGAACAAAA AAAAGAGGCAAGAAAGCCAGACAAGGAAGGCCAACCAAGAGA AACCGGGCACGGAAAAAGGGAGCCGAAAAGGAGAGGAAAAAA G GAAACACAGAGGAAAAAAGAAGGGGAAAAAGACAAGGAGAA AAAAGGGGAACAAAGGGGAAGAAAGAGGTTAGAAAGAAAAGG A GAAAGAGGGAAGGAAGGAAAGAGGGGGAGGAAGAAAAAAAA G G G G G G G A G GAA $A$ A $A C A A C C G G A C A G C C A A A A G G G G G C A C G G$ A A G A A A G G A G G G A A G G A GAAAAAA A G CACAAAGGAAACAAGA G A A G G G A A G G G G G A A A G C C G GACAA A GAA A G G G G G G A A G A G G G CAGGAAGACCGGGGAGGAGAAGGGCCAGAAAAGGGGAAAGGG G G GAGAAAAAAGGGGAAAATAGAAAAAGAAGAGAGAAAGGGG A A A A A A A A A G G G GACAGGAAAGGAGAAGAGAAGGGAAA GAAA
 AACCGAAAAGGAAAAAAAGGGGGGAAAGCAAACCGAACAACC G GACGGAAGGGAAAGGGAGGAAAGAAGGAAAAAACCCCGGGG AAAACCGGGGGAGGAAAGGGGAAGAGAAAAAAGAGGAAGGCC A G GCAAAATTAGAAGGGGCCCCAAAAAGAGAAAAAGGACCGG A A A A G GCCAAGGGGAGGGAGGGGGCCAAACCCAGGGA
G G A G G G A A G C C A A G G G G A A G G G A A G A A G G G G A G C A G G G G G G A A G G G G A A GAACGAAAGGAAGGGGGGAGACAAAGCCGGAGAA
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 CAAAAAAGAGAAAGGAAGAAGAGAAAAAAAAAGCAGAAGGAG
 C C C C A C C C A G A A CAGAAAAGAAAAAAGGGGGGTTGGCAAACC G G C C A A A A A G G G G G A A G G G G G G A G A A G G A A A A A G A A A A G G G G G G G G G G A A A A C A G G A G G G A G G A G A GAAA A G G G G G G G G G T T A A $C \subset G A C A A A A G A C G A A G A A G G G G G G A A G G G G G G C C G G C A A A A G$ AC G G G GAGGGAGAGAGGAGAGAGGCCAAAAAAGGGAAAGGGG GAGGAAGGGGAACCGGAAGGACGGACAAAGAAGAAAAGAACA A GACAAAGAGAGAAGACAAAGGCCAGAGGAAGAGGAACAGAA AC GAGAACAGATAGCAGGGGGAGCCCGGGGCCCCAACCAAGA $A G C G A G G A G A G G A A G G G G A A G C A A G A G A A A T T C C G B A A G A A A$ AAAAAGAGGGGGGGCACAAAGGACGGAACCAAAAAGAAAACA C CAAAAAAACGGAGAGAAGGCAAAGAGAAAACGGAGGGAAAA AAAGGGGGGGAAAAGGGGAACAAAAAAAGGAGGGGGAAAAAA A A A A A A A A A A G G G G A A A A A A GAGGCAGAAACCAAGGGGCC G G A A A A A A G G A A G G G G A A GAAAGGAAGGGGAGAGAGGGAA GAAA G GAAAAAGCCAAAAGGGGATAGCCAAGGGACAACCCGGAAAA

GGCCGGAAAAAAAGCCCCAAGGCCCCAGCCCCAGAGAAGAAA G G A A A G G G G G G A G G G G G G G G A G A T A A G G G G A A G G A A G G A G A A $G G A G C A A G A A G G A G G A A G A A A A A G G G G G A A G G A A A G G A G A A A$ G G G GAAAAGGAGAAGGAGAAGAGAAGGGGAGGCAGAAGAGAA $C C G G C C G G A A A A C A C C C C G G G G G G A A G C G G G G G G A A C A A G G G$ G G A G G G G G G G A A A A A A C A G A G G G G G G A A A G A G G A G G A A G G A A AAAACCGGAAGGGGAAGAGAAGGGAGAACCGGAAAGAGAAAG AGAACCCGGGAATTGGAGGAGGAAGGGGGGAAGAAGAAGGGA G G G GCCGGAAAGGGAAGGGGAAGGGAGAGGGGAGAGAAGAAA G G GAA A A G GAGAGGAAAGGAAGCCAAGGAAAAAGGGAACAAG G GAAACAGGGAAAGACGGAAACAAGGGGAAGAGACCGAGAAA GAAGAAGGGGAAAGCCAGACGGACAAAGGGAGAGACGGAGBA A A G A C A $\mathcal{A} A G G G G G G G G G G G G A A G G G G A G G G G G G G C A G G G G G G$ A G G G G GAAAACCGAGGAAGGGGAAAAGGAAAGGACCGGAGGAG G G G GAA A GCC G G G GCCGGAACCAAAAAGCCGAGGGGAGGGAG GAAGAACCGGGACCAGAGTAAAGGAAGGGGAAGGGAGAAAAA GAGGCCGGAGAAACAAAAGGGAGAAGAAAGCAGAAGGGAGGG G GAACCGAGAGGAAAGGGGGCACAGAAAGGACGAAAAGAAAG $G G A C G A A C A A G G G A A A A A A A A A G G G A A A G G G A C C G G A G A G G A$ GAGGAGGAAGAAGCAGGGGAGGGGAACCCCGGGGCCGAAAAG A A T TAGGGGGGGGGAAGAAAGGAAGGAGAAGGAAAAAAAAGA A G G G G G A A GAGGGGAACCGGGGCCAAGGGAAGAAAATACACC GAGGAGGGAGGAGGAAGGGGCCAGACGGAAAGGAAGGAAAAA A ACAAAACGGGAAAGAGGAACCGGAGGGGGAAGGAAGBCAAA
 G G G A A A GACCGGGGCAGGGGAAGGCCAAACGAAGAACGGGAG AACCAACAGAGAAGAAAAGGGGGGGGAGAATTAAAAGAAAAA A GAGGGAGAAGAAAGAAGGAAGGGAACCAGGGGAAGCGAGAA A G G GCACCAAGGAGAGAGAGGGGAGAAAAAAAGAGGAGAAAG A GAAAAAAGGCCACAAAGGAACGAGAGAAGAGGGAAAAAACC
 G GAGAACCAGGGGGAAACGGAGGAGGGGAAGGCCAAAGAAGG
 G G A A G G A A G G G G A A G G G G G G C C G G G G G G G G A A G G G G G A G A A A A A G G G GAACCAAGGGGGGAAAGGGAAGAAAGGGAAGGAAAAA G G A A G A G A A G A A A A A A G G G G G G G G A A A A G G G G G G G G G A A G G G AACCAGAAGAAGGGGGAGACGGGGAAGAAGAGAGGAAGAAGA GAA A A A GAGAAGAAGAGGAAGGCCGGAAAAAGGGGAAAGAAA G G G G G G A A G G A A A A G G A A G G A A G G A A G G A G A A G A A G A A G G A G GAAAAAAAGAGGGGCCGAGGGAAGAAGGGGGAAAAAAGAGAA $G G A G G A G A G A G G A A G A C C A A G A G G A C A A G G G G A A A A G G A A A A$ GAAAGGAGCAGGAAAGCAAAAAGAGGGGGGAGAGAAGAAAAG AACCGGAGAAGGGGAGAGAGGAAGGAAAGGGGGAGAAAGAAG CAAAAAAAAAAAGGGGAACAAGGGACGGAAAGAAGAAAAGAG G G G A A G A A A G A A A G A A G G A A G G G G A A G G A A A A G A GA G GAA G G
 AAAAGGCCAAGGGGAAAAGGCCAAAAGGCAGGGGAGGAAACC AAA A A A A A GGAAAGAAAGGAAGAAGGAAAAAAA GGGAAGGGG G G G G GA $\operatorname{A} G A G A A G G A G A A A C G G C C A A A A G A A A G G A A A G A A G G$ A A G G G G A A A A A A G G A A A GA $A \operatorname{GGGAGAAAAGGAAGGGGAAAACC}$ GAGGAGAGCCGGAACCGGGGCCAACCGAGGGGGAAAAGGGGG A A A A A A A A A G GAGGAAAAGAGGCAAGGGGGAGAAAGAGAA GA A G A A A A G A G A A T G A G G A A G G A A A A A GAGGGGAGA GACAAA G G ACAAGGGGGGAACCGGAGCCAAAAGAAGGAGGGGAAGGAAAA G G G G G A A GCC GACCAGAGCCGGACGAGGAAAAGAAAAGAAGG G G G G A G T TAG G GC CAG G G A A C C G G A A C C G G GACC G G G G G G A A G G A A A A A A A GCAG GAGCCGAGGGGCCAAGGAAGAAGACAGAA GAAGGACCAAAGGGGAGGAACCGAGAAACCAAGAGGAABAAA G GAA A A G GACGGAAGGGAGAGGGGGAGGAGAGAAGAGAAGGG

 GAGGGAAAGGCCGGGAAGGAGAGAAGGGGGGGCCGAAAAGAC AAAGCCGGGGGAGGACGAGGCCACGGGGGAAGGGAGAGGGGA A G GAACAGACAAGAAGGGGGGGAGGGGGGGAAAAACCAAACAA
 $A \subset A G G A G G A G G G G G A C G G A G A A A A G G G A G A A A G A A G G G G G C C$ AAAAAAAAGGAAAGGGGAAGAAGAAAGGAGAGGGGAAAAAAA AAAAGGAGCACCAGGAAGGGAGAACCAGAAAAGGCCAAGGAG AAAAAGCAACGAGGAAACGGAAGGGACCGGAAAAGGGGAGCC
 A A A G G G G G G G G G G A G G G G A G G G A A G G G G A G G G G G A A C C A A G
 A G GAA A G G G G GAAGGGGGGAAGGGGAAGAAGAAAAAAAAGACC ACGAAAGGAAACAGAAAAAGCCAGAGGAAAAGAAGGGAACAA AAAAGGAACCGGCCAAAAAAGGGAAAAAAGAACCAAGCAACC GAGGGAGAGGGGAAAAGAAAAGAAGGAAGGGGGGCCAAAAAC G G A A A A A A G G G G G G G G A A G G G G A A C C G G G G G G G G C A G A A G A A GAGGGAGGAAAAAAGGGGGGAAGAGAGGGGCCGBA$G A A C G G G G$ G G G G G G G GAAAGCCGGAGAGAGGGGGAAAAGAGAAGAAGAGA A A A A A A A CAAAAAGGCACAAGGGGAAGAAAGGAAAGAAGA
 $G G C C A A G G G G G A G A G G A A A G G G G A C G G G G G A A C A G G C$
C G G G G A A G GAAAAAAAAGGGGGAGAAGAGAAGAAACCAGGGG AACCCCAAAGAAACAGAAAAAGGGAAGGGAGGGGAGAAAGGG A A G G A G G G G G G G A A A G A A C C G G G G G GAGAGGGAA G G G G A A T T CAGGGGAAGGCCAACCAAGGAAAAAAGGAACCAGAAAAAAAG AAAAGAAGAGGGAAAAGAAAAAAAGGCCAAGGACGAGGACCA A A A A G G GAGGAGGGAAAAAAAAGGGGGGAACCAAAAGGCCAA AAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGAAAAAAAA A TAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCBAGAGAAC $A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A G A A G G G G G G$ G G G G G G G A A GACGGGGGGGGAAAGAGAGCCGGAAGGGGCABA A A G G G G G G A A A A GAA ACCGGAAGACAAAACGGAGGGGGAAAA A A G G A G G G G G G G G G G G A A A C GAC C G G GAAAA A $\mathcal{A} C C G G G G A A T A$ G G G G A A G G G G G G A A G G GAA A A A A GAGGCGGGGGGAGAAAAAAC AAAAGAAGAAAAGGGAGAAGAAAATAGGGAAAACC GAAAGAA AA $A G A C C C G G G G A A G G G G C C A G G A A G G G A A A G G G A A A A A A G A$ ACAGAAACGGAGAACAAAAAGGGGGGGGAGCCGGGGGGGGCC ACGGAGGGAAAAAGCAGGGGAAAAGACAAGAGAACAGAAAAA $C C G G A A A G G G G A A A A G G G A G A G C C A G A C A G A G G G G G G G A A G A$ A G G G G GAA $A \operatorname{GGGGGGAAGCCGGCCGGCCGGAAAAGGAACAAA}$ G GACAAAAGGAAGGGGGGAGGGAACCGGAACCAGGAAGAGCC CAAAACAGCACCAAAGAAGGAAAAAGGGGGCCAAGGGACCGG GAAAGGACGGCCACCCGGCAGGGGGGAAAAGGAAAAAAAAGA A A GAAAAGGGCCAAAGCCCAGGAAAGAAGGAGGGAAGAGGAA ACAA $\mathrm{C} A \mathrm{~A}$ A A A A GAAAAGGAAGGAAGGGGAGAAGA GAGA GA GA AGCAGGGAGAAGAAGAAGGGAAGAGGAAAAGGGGGAAGAAAA CATTGGAGAAGGGGAAGGGGGGACAAAAGGAGCCCCGGAGAA A A A A G G GACCCCGGGGGGAAAAAAAGGGAAAGGGAAAGAGGG GGCCCCCAGAAAGGAGCAGAAACCAGAACCAAAGGAGGAGAA G G A A A GAGAGAGGAAGGGAAAAGGCAAGGGAAAACAAA GAAAA $A C G A G G A A A C A G A G G G A A G G G A A G A C G G G G A A A A A A G A C A G A$ A GAA A A G GAAGGGGGGAGAGAACCAGAAACGAAGGAAAAAAG G G G G A A G G A G A A G A G GAGAGGAAAGGCCGGACAGAGGAAGAG
 GAAACAAGGGCCAAGAAAGGGGCCAGAAACCAGAGAAGGGAA A A G G A A A A G G G G G G G G G G C C A A G G G G G G G G G G A G G A A G G G A A AAAAAGAAAAGCGGGGGGAGGAAAGGAAAAAGGGAAGAAGAG

GAGGCCGGAGCCGGAAAATAAAAAGGGAGGGGGGAGGAAAAA
 A A G G G G G A A GCCCAAA $\mathcal{A} G A A A A G G G A A G G G A A G G G G G G G G G A$ A ACAAAGAGGAAAATACCAGTTAAACAAAGGGAAGGGAAAAA $C \subset G A A A A A A G A A G A A G G C G A A A A G A A G G A G A G G A A A C C A G A G$ G G A A G A G A A G G G G G G G A A G G A A A A A G A G A G A G A G G A G G C C G G A A GACCGGAGAAGAAGAGAAGAAAGGGGGGAACCAAACAAAC G G G G G G A A A G G A A A A CAA $A \operatorname{AGGAAAGGGAAAGGATAAGAGCTT}$ A A A GAAAGAAAACCCCGGAGAAAGAAGGATAAAAAACC G GAA A GAAAAGGCCGGAAAAACCAACAACCAGGGAAAAAAGGGGAA
 C C G G G A G G A A G G A A A A G GAGAAAAGGCAAGGAACACGAAG G G $A C A G A G A C A A G A C C G A C C G G G G A A G G A G A A A C A A G G G G G G A C$ A GAGAAAGAAAGCAGGGGAAAAAAGGGAGAAGAAAAGGGGGG $C \subset A A C C A G G G G G A C A T G G A G C A C A C G C C A A A A G G A A A A A A A A$ GAA A A GCAAAAAGGAAGGAACCAGAAGGGGATGGAAGGAGGG G G G A A A G G A A G A A G G G A A C C A C A A G G CA G GA G G G CA GA G G G G G G A A G G A A GAGGCAGGAAGGAACAGAGGAAGCCCGGCCAAAA AAAAGAAGGAAGGACCGAGGGGAAGGACGGACCAGAAACCGG GACAACGAGGGGAACCAAGGAGAAAGGAAGGAGAGGGGGGCG G GAAGGGGAACAGACAAGGAAGACGCCAAGGAGAGACAAGCA ACAAGAAAAAGACCGGGGGGAAAAGGAAAAAAAAGGCAGGAAA AC GAA $A \operatorname{G} G A A G G A A G G A A G G A G A A G A G G A A G G G G G G G A A C C C$ GACGAAAAGGACGGAGAAAGGGAAGGGGAAGGAAGGGGGGGG
 ACGAAAAGCAAGGGGAGAGGGGAGAGAAGGAAAGGAGAAGAA G G G A A A G G G A G G G G G G G G G G G A A G A A G G T T G G A G C C G G G G A A

 AA $A$ A A G G GCCGGA $C A A C G A A G G A A G A A A G G G G C C G G G G G C C$ CAGGAAGGAAGGGAGGAAAACAAAAAAAAACCGGGAAAAGGG A GAAGGGGGGGGAAGGACAACCAGAGAAGGAGAACAGAAGAG $A C C C G G C A G A A G A A A A G A C C A G A G A A A G G G C A A G C C A A A G C A$ GACCGGAACCAAGGAAGAACCACCGGAAGAGGGAAACCCCCC
 A A G G A C A A G GAGGGGAGGAAGGAGAGGGAAGGGAAGGAAAAA G GAA A G G G A A G G G G A G G G G G G G G G C C G G A A A A A A G G A A G G G G GACCGGGGGAAAGAACGAGGAAGGCCAAGGGGGGACAGAGAG G G G G A A A A A A C C G G C C A A G A GAGGGGAAGGGGGAG G TAAA G G A G G G G G G G G G A GAA A G A A G GAAAAAGGAAGGAAAAGAAACCCC $G G A G G A G G A G G G A A A G G G A G A A G G A G A A C C C C G G A A C C A G G G$ C C G GCCAGACAAAACCGGGGGAAGAAGCCGGGAGAA GAGA AAAGGACCGGAGAGCAGACCAAGGGGCCAGGGAAGGGGAAGA A A C A G G G G G G A G G G G G C A G G G A G G G G A A A G G A G G G G A A A A $\mathcal{A} A$
 A G A G A A G A C G A G C C G G G G A A G G G G G G G G G G A GC C G G G G A G C A G G G A A A G A A A A A G G G G G G G G G G A A A A A GACAGGAAAAA A CAAC $A G C C G G G G G G G G C C A G G A G A G G G G G G G G G A A G A A A G A G G G A G$ G G G G G G G G G G A A G G A A A A G G GAA A G GAAAA A G GA TA A A G GAA
 GAGGAAAGGAGGGGGAAGAAAGAAAAGGGGAAGAACABAAGG G GAACCGGAAGGCCAAAAGGAGCCGGCCAGGGGGAACAGGCC A G G A A A G G A A C C G G G G A G A GAA A A CAGGCCGGAAAAGGAACA AAAAGGAAAAGGAGAAAACCAAAAGGGGAACAAAGAACAAAA GAGGGGGGGAAGGAAGGGAAAAAGGGAGAAGAAAAAACGGAG GAAAACAGGGAGACTTGGAATTCCAAAAGGGGAACGCAAGAC

 G G G GAGAAAAGGGAAACCAAGGGAGAGGGGAGGGGGAACAAA

G G G GAGAGAGACGCAGAAAAGGCAGAAAGGAAGGCCGAGGCC C C C C C CA A G GAA G GAAAGCCCCAGGAAAGAGAAAGGGGAAGG
 G GAGAAGAGGGAATAGACGAGAAGCCAGAACAAAGGGGCCAG AAAGCAAAAGAGAAGGCCCCGGACAGGGGGAGAGGAAACCCC G G A T T T G G A A G G G G G G G A G G C C A G G G G G G G C A A A A A A G C A A A C C G G A A G A A CAA G GAGAAGGAAAAAACCGGAACCCAAAAAAA AACCGGAAAGAGAGAAAGAGGGAAGAGGGGCACCAAGAGAGA GAGGAAAACGCAGAAAGGGGAAGGAGGGAAAACCGBAAAAAG AAAAAAAACCGAGGGGACCCAAGAAGAGGACAAAAGAGAAGG G G G G G A G A A G T A G G G G A G G G A A A A A A G GAA $A \operatorname{G} G A A G G A G A A A$ G G G G G GA $\operatorname{G} G \mathrm{G} G \mathrm{G}$ GACAAAGGAAGGGGGTAGAAAAACCGGAGAA G GAAAGAACCACGGAAAGGAAAGGGGGGAGAGGGGAAAGAGB $G G A A G A A G G G A A C C G G A G G G A A C A A G A A G G A A A G G A C A A A G G$ A G G G G G G G G GAAAA A A G GAGAAAC GAGAAGAAGGGGAAAAA G GAACAACCGAGAAAGGGGGAAGAGAAAAGAAGACGGGGAAAA G GAGGGGGGGGAAAAAGAAGGAGGGAAAAAACAGGAGAAGGG G GCCGGAAGGGGAGGAGGTXAACCGGGGACAAACCCGGAGAA A A A A A A A A A GAA $A \operatorname{GA} A A G A A G A A G G G G G G A C C G G C C G G A G G G$ A G G G A A C A GAGGCAAAAAGGAGCCAAAAGGAGAGAAGAAAAG G GAAGGGGAAACGAGAGAAGGACAAGAAGGAAGGAAGGGAGG A G G GAA A GAAAAGAGGAAAGAGGGAAAGGAGGAAGAACAC AA GAAAAAAAAACCACGGAAAAAACCAAGGGAGAGAAGG
G G GCCAAAAGGGGAAGAGGCCAAAACAGACCGGAAAAGGCC G GAGGACAAACCGGGGAAGGCCGGAAGGGGCAAGAAGAAGAC
 A A A A G G G G G GAAAAA A T T $A$ A A A A A GAGCCGGGGGGGAAA G GAA A GCA $\operatorname{C}$ GAGAAAACCAAGAGGGGGAGACAGGGAGACAAGATAA
 A G G GAGCAAAAAAAGGGGAAGGGAGGGAGGAGACAGAAAAAG GAA A A G G G A A G A G G G G A A A GAA $A \operatorname{A} G A G G G A G G G G A A A G G C C C C$ G GAA A A A A G G G GAAAAGGAAGGAGAAGGGGGACAAA GAGGGG
 A A CACCGGGAGGAGAAAAGGAAGGGGCCAAGGAGAGGGAAAA GACAAGAAAAGGAAGAAAAGCCGGGAGAAAAAGGGGAAAGAG G G A A A A G G G G G A A G A G A A A C G G G G GAA A A A A A C C A G A C G G A G A A A A G G G A C C G A A G G G G G G G T T A A C G CAGGAAGAAACCAAG G A G G GAGAAGGAGAGCAGAAGAGAAAGGAAGAAAAAACAAAAA $G G A A G G A A A G A G A G G G C A G A A A G G A A C A A A A A A A C C G G G G G G$ $A C C C A G A A G G G G A A A A G G A A G G A A A G A G A A A G G A A A A A C C A G$ ACAGAAACAGGGAGAAAAAAGGAAAAGGGAAAAAGGGATXAA A A G A A GCCGGAGGGCCAAAAGGCCAGAAGGGAGAAGBACCGG A A A A G G G G G G GAGGAGAGAGAGAAGCAGGAGAGGAGGGAGGA G GAGAAAAAAAAGGAACCGAAGAAAAAAGGAGGGGAAAAAAG G G G A A A A G G GCCAGGAATAAGAAAAAAAGGGGACAGAAAAAA CAAAAAGGGGGGCAAAAGGGAAAGCCAAAGGAGAGGACBCGG GAAAACGGAGACCAGAAAGAGGCCCAGGAAGGCCCCGGGGGG A G GA $\operatorname{A} G C C A A A A A A A A G G C A A A G G A A G G A A A A A A G G A A G G C C$ G G G GAGCCCAGACCAGAAGAAGGGGAGGACGGGGAGGCAAAA AC G G A A A A G G G GAA A G G G C C G G A A A A A A A A A G G GA G G G A G A A C CAA $A \operatorname{GGAA} C \subset C A A A A G G G A G A A A G G G G G G A A A G G G A A G G A G$ GAGACAGAGGAGGGAAAGCAGAAAAAGGGGGAAAGGAGAAGAG AAAAGGGAGAGACCAAGAAACCAGAAAAAAGGGAGAGGAGAA G GAGAGGCGGGGAGGAGGGGAATTAGAAGGGGAGAGCACAC G A A GAAAGGGGGGGAACAGGGGGGGAGCACACCAAGGAAAAGG A G A A A G G G G G A A A A G G A A C A A A A G GAGAAAAGAGG GAAA A T T A A G G A C A G A A A GAGGGGGGAAAGGCAGGAGCCAAGGGGAGAA A A G G G A A A A A A GAAAAAGAGAAGAGGAAGGGAGGAAAAAAAA AAACCCGGGGAGAGGAAAACCCGAAGCCAAGGTTAAGAGAGA

GAACGGAAGGGAAAAACAAGGACCAAGGAGAGAAAGGGAAAG A GACAGGGCCAAAAGAAAAGAGAGCCGGAAAGAAAAAAGAAG
 G G GAA $A \operatorname{G} G A G G G G A G A A G C A G G G A G G A A C A C C G G A C A G A G A A$ GAGAGAGAAAGAGGCAAGACCAGAGGAAAAAGGAGGGGGGAC $A G C A A A A C A G A G A G A A G A G G G G C C G G G G G A A G G G G A G G A G G B$ G GAGACGGGGAGAAAGGGGGAAGGGGAAAAAAGGAAGGAGAA A G G GAGAACCAAAAAAAAAAAGAGGGCCAACGGGGGGGGGGG G G G G A G A A A A G A G G A A G G C CAA A G GAA GAAGGAAGACAAAAA G G G GAAGACCCCAAGAAAAGAGAACCGACCGGAAGGGGGGAA G G G GAA $A \operatorname{GAAAAAAAAACCAAAAGGAAGGGGGGGGAAGGGGAA}$
 A A G G A A G G A A A A $\mathcal{A} G G G A A G G A A G G A A G G G G G G G G G G C C G G C C$ A A G G A A G G A A G G A A G G G GAA $A \operatorname{AGGGAACCAAAAAAGGAAAAGG}$ A A A A G G G G A G G GAAAGGGGAGGGGCCGGGGACAAGAAAAGGG G GAGGAACGGGGAGGACAGGAGAGAAAAGAGG
 A A A GAACCAAAAGGAAAGAACAAGGGAAGAGGCCGACAAGAA $C \subset G A G G A G A G G A A A G G G A C C G G A G G A G G C C A G A G C C G G A G A A$ G G A A A A A G G A G G A G A A G A A GAGGGGGCCGGAGAAGGGAAGAA A A G GAAAAGGAAGGCCGGAGCCAGGGAAAAAAAAGGAAAAAA C C A A A C G G A C A A A G G G A A G G G G G G A A G G G G G G A C A G A C G G G A G G A G G A G G G G A G A G G G G G G G G A G A A G G G G C G G A T A G G A G G G A G G GAGAGGGAACAGGAAAAAAGAACCGGGGAGCAAGCAAAAA
 C C G G G G GAC C G G G G A A GAGAAGGAGGAGCC GAGGGGGAAA G G AAGGAACCGGCCAACCAAGGAAGGGGTAGGAAGAGGATGAAG A A G G G G G A A G A A C C A A G GAAAAAACATTCCGGGGCCAA G GAA A A G G A A G G A A G G A A G G A A A A G G GAAAAGGGCAAAACA GAA GA A GAAAGAAAAGGAGGGCAAAGGGGCCGGGGGGAAAAACBGAA A A A A A C A A A C A G A A G G CA $A \operatorname{GGGA} G A A A G G A A A A G A A G G G A G G G$ A G G GAAAAGGAACCAAAAGGGGGGGGCCGGGAGGAAAAAAAG G GAGGACAAGAAGAGGAGAGGACCCAGGAAAAGAAGGACAAA GAAGGGGGCACCCCGGAGGGGGGGGAGGAGAGCAAGAAAAAA
 G GAAAACCGAGAAACAAAGAAGGAAATAAGCCGAAAGGAGAG GCAAAAGGAAAACCCCGAGGAAAGAACCGGGGAAGGGGCCAG ACAAGGCCGGAAAAAAGGGAAAAGGACCAGAGAAAAAAAACAA A G A A G G A A A A G G G G C G A A A A G G G G A A G G A A A A G G A GAAAA A C GAGGAAAAGAGGGGCCAAGAGGAACCAAAAAACCAGAACGAA $G C G A G A A A G G G G G G G G G G A G C C G G G G C A A G A A G G A A A A G A C C$ GAAGAAGGAACAGAAGGGAGCAAAACGAGACAAAAAGGAAGBG A A A G GAGGAAGACCGGGAAAAGGGCCAGAAAACCAAAGGGAG GAAAAGAGGAACGGGAAAGACCGGCCGGGGAAGGAAGGGGAA A GAGAGAGGAAGAGGAACAGCAACCAAGAGGAGAAGAAAGAA A ACCCCAACAAAAAGGGAAGGAGGAACCAAGAACAGAGGGGG
 G G G G G GAA $A \operatorname{GCC} C A G A A A A G A A G G G G G G A A A A G G A C A A A A A G$ A A GAGAAAAAAAAGGGGAAAACAGAGGGCCGAGGAAAAAAAA A G A A A A A A A ATTA T G G G CAAGAGAGCATTGGAAAAAGAAAAAA AA G GAGAAAAAAAAAAGGGGAAGGAAGAAGAAGGGGAGAAGAA AA $A$ A A A G GCCAAA $\mathcal{A} A \mathrm{~A} G \mathrm{G} G A A A A A A C C G G G G A A A A A C A G A G G G$ GACCAGAAGGCCAAGGGGCCAGAGCAAGAAGGCCAGCCAAAA GAAACCGGAAGGAAAGAAAAAAAACCAGAAAGAGGGGACAAA G GAGGGATAAGGAGGGGAAAGGAAGGGGGAGGAAGGACAAAG A A A A A A G G GAA A A G A GAGAAAGGGGGAGCAAGGGAAGGAGAG A A G G G G GAGGAAAAAAGGAAAAGAGGGAACGGGCAGAAAAGG G G G A G G A G G G G G G G G A C C G G G G A GAAA A G G GACAAAAAACA C G GAAAGGGGGCCGGGGCCGAAAAAAGGGAGGGGGTAGGGGCA

AGCCCAAGAAGGAACCCAGGAGGGAGCCAAGGGGGGGGAAAA AAACAGAGAGAGAAGAGGAAAACCAAAGGGACCCGAGAAAAA A A GAA A A TAAGAAGAGCCGGGGAAACGAAAGAGGCCAGAAAA
 G G G G G G G G A A A A A A G G G GAAAAAAGGCCAACCAACCAAAAAA A A A A A A A A G GCCGGGGGGGGGGAAGGAAAAAACCAAAAGGAA G G A A A A G G G G G G G G C C G G G G G G G G G G A A G G A A G G C C C C G G A A $G G A A A A G G A A C C G G A A G G A A A A G G G G G G A A G G C C A A G G A A G G$ G G A A A ACCAAAAAAAAAAAAAAAAGGAAAAGGAAAACCBGAA G G G G A A A A A A A ACCAACCGGGGGGCCCCAAAAGGCCAAAAGG AAGGAAAAAACCGGCCGGAAAAAAAAAAAAGGAACCAAAAGG A A G GAAGGAAAAGGAAAACCAAGGGGAAGGAAAAAGGACCBG G GAACAAAAACCAAGGAACCAAGACCACAGCCGAAGAGAGAG G A A A A A A A A A A A G G CAA $A \operatorname{AGGCAG} G A A A G G A A A G A G G A A G G G G$ A A A GAGCCAACCCCCGCAGGAAGGAAGGGAAGGAAAGGAAGG G GAAAAGAAAGGAAGGAAAACCGGAAGGAGAAAAGGCCABAAA G GAACCGGAAAAAAGAGGAGGGGAAGGGAGGGCCGGGGACBG GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAGAGACCCAGGGG $A C G G A G G G G G A A A A A A A A A C A G A G G A A C G G G G A A G G G G G G G G$ A A A A A A G G A A G GAAGGCGTTGGATGAAAAAAAAAAAAACCAG GAAAAGGGGGGGAAAAAAGGGGGGAACCGAAGGAAAAAGGGG GAAGCAAGGAGGAAAGAGACAAAGGGAGAGCCGGGGAACCGG A A A A G G G A T T A A A A G G A A A A G G G G G G G G A G A G G G G G A G G G G G GAGGGAGGACGACCGAGGAAAAAAGGCCGGCGAAAAGGAACAC G GAATAGAAGGAGAGGCCGGCCAAGGGGGGAAGGAAGGAAAA G GAAAAGGAGGGGAAGCAGGGGGAGGCACCGAGGGAGGGGGG $C \subset A A C A G G A A G G G G A A G G A A C C A A A A A A A G G A A G A C A A G G A A$ G G G G A A G A GAGAAAAAAAAAAACCGAGGGGAGAGAAGAAGAA


 A A T T G G G G GAGGGGACGAAAAAGGGGAGGAAGAAAAGGGGGG G GAAAAAAAAGGAAGGAAGGAAGGAAAAAAAAGGGAGGAGAT $A G G G A G A G G A G G G A A A G A G G G G A A A A A A C C G G G G A A G A A A A A$ G G G G G G A A $\mathcal{A} G G G C C G G G G G G G G A A A A G G G A A C B A C C G A G G G G$ $A G G A G G G G G G G G A A A A A G G G A A A G G G G G G G A A G A A A G G A G C C$ G G G GCCAGGGGAAAAAGGAGGAGGGAAGGGGAAAAAAGGGGG A GAGAGCGGAAAAAGACCAAACGGGGGAAAAAGGGGAAACAAA A A A A A A G G G G GAGAAGGAGGAGGAAAAAGGGAAGAAGAAAAA A A G G A GA $\operatorname{A} G A G G G G A A A A G A A A A A A G A A G G G G G G G G A A G G A A$ A GAGAAGGAGGAGGAAACCCGGAAGGAAGAAGAGAAAGAGAT G G G GCCAAGGATGAAAACCGTAGAAGAAGGAAAAAAAGGGGG AGGAGGAGAGAAAAAACAAGCCAAAAGGGGAAAAAGGGAAGG A T GAAAACGGGGAATTAGAAAGCCAGGGAAGGGGCCAGAAAAA G G G G G G A A GATAGGAACCGGAAAAAAAAAAAAGAGBAAAACC AAACAGAAGAGAAGGAAAGGAAAGAAAACCAGATGGAGAGAA A A A A G A GAGGAGGGGAAAAGGAGAGAGGGAAGAA GAGAGACC AACCGGACAAGGGAGGAAAAGAAAGGACAGCCAGAAAAAAGG AAGGGGAAAGGGAAAGTTCCAAGGTAAAAACAGGGAAAAGAG A GAAGAAAAAAGGAAGCCCCAAAAGGACAGGAAACAAGAGAG A A A C G G A G G G G G G G A G A G G G A A C A G G G G G G G G G G A C A A G G A A G G G G GAGAGAAACAGGCCAAGGAAGAGGGGGGAAAAAAGGCC AACCAAGGAGAGCCCCGGGGGAAAAAAAAAGGAGAAGAAGGA AACCCAAGAGAGGAGGTTACGAGAGGACACCAAGCAAGACGG A G G GCCCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGGG A A A A G G G A G G A A C C A G GAA $A \operatorname{CAAAGAAAAGAGAAGGGAGAAGA}$ A G GAA A G G CAAAAAAAAGAACAAGAGGGGGGGAAGAAAAACC G GCCGAGGCAAAGGGGGGCCGGGCATAAGGGGAAGAAAAAGA $A G A A A G G A C A G A G A G A G G A G A A A G A G A G A A G G C C A A A C A A A A$
$A C C A G A A G G G G G C C G G G G G G A A C C G G G G G G G G G G A A A A G A A A$ G G G G G G G G A A G G A A A A G GAAAA A GAAGGCCAAAAG GAAAACA $G G A A G G A A G G G G A A A A G G A A A A C C G G A A A A C C A A G G A A G G G G$ AACCAAGGAAAAGGAAGGGGGGAAGGCCAAAAAAGGCCAAGG
 A A G GAAGGGGCCGGCCGGCCAAAAGGAACCGGGGCCGBAACA A A G G A A G GCCGGCCGGGGAACCAAGGAAAACCGGGGAAGGGG G G G G G GAA $A \operatorname{GAA} A G A A C C G G G G G G A A G G A A A A A A G G G G A A A A$ A A A A A A A A A A G GAA $A \operatorname{G} \operatorname{A} A A G G A G A C A T G G G G A A G A G G A G A G G G$ AACCAAGAAGTAAAAAAGGGCACACCCCCCAAAAGGCCGGGG AACCAAGGGGGAAAAAGGAGGGCGAGAGCCGGGGGGGGAACA AC G GAAAAAACCAAAAAGAAAAAAAAGGAAACGAAAGGAGAA A A G A A G A A G A A G G G A A $\mathcal{A} G G G G G G G A G G A A C A G A A C C G A G G G G$

 $G G C C C C G A G A G A G A A A A A G G G A A C G G G G A A C C C C A G G$
AATAGGAGAGAGGGAAAAAAAAAAAAAAGCCGGAGAAAAGG $A C C A G G G G C G C C A G G G G G A A A G G G G G A A G G A A A A C C C G G G C A$ $A G C C G G G G A G G G G A G G A A A G G G C C A A A A G G A G G G G A G A G G A G$ G GAGAAAAGGCCGGAAAAAAAAGGCCAAAAAGCAGAACBAAG G G G G G G G G G GAGAGAAGGGGACGGACGGAAACGGGGGGACAA A A G G G GAA A G G GAAAAGAAGGAAGGGAAGGAAAAGGACAAAG AC G G G A G G A A A GAGGAAGGGGACAAGAGAGCGGGGGAAAGGG G GCCAAAAGGAACCTTAAAATTAGGAATAAAAGGGAAAAA G G GAGGGGAAAAAGGGGAGGAGAAAGAACAGGGGGGCCBGAAGAG AAAAGGGGGGCCCCCCAGGAGGAAAAGGAAGGGGAACCAAGG AAAGGGAACCAAGGAAGGCCGGGGAAGAGGAACAAGGGCCAG
 A GCCGAGGGGAAAAAAGAGGAGAGAAAAGAGGAGGGGAGAAG AAAAGAGGGGGAGGCCAGCCAGGGACAGGGCCAGAGAAGGAA A G G A G G A A G G A G A G C C A A G G G G G G G G A A G G A A G G A A A A A G G A A A G GCCATCCCCAAAAGGGAAGGGGAACAAGGGGATAAGGGG GAA A A A A A GAA A A G G G G G A A G G GAGGCAGAGGGGAACA G GAA A A G A A A A GCAA A A $\operatorname{AAAGGGCCGGGACCAAGGAAAAAAAACAAA}$ A A C C C C A A A A A A GACAA A A A A G GAGGAGGGGGAGGGGGAGAA G G A G A G G G G G C C G G G G G G G G A G A G G G C C A G G A G A G A G G C C A A
 AA G GAAAGAAGGAAAAGGCCCCAAGGAAAAGGGACAAAAGAG A A G G G G A G G A G A C C G A A A G G G G A A G G A A C A A G G G G G G A A C G G G GAAACAGAAAAAAGGAAGGAAAAGGGGGGAAGGAGGGAAGG A GAGAAAGCGACAACCAAGGGAACCACAAAAACCCCGAAAAG
 AAGGAACCGGAGAAAGGGGGGGAAGGGGAAGGCCAGAGAAGA G G GACAGGGAAAAATTAGAGAAGAAGAGAAGGAGGGAAAGAC A A G A A C A A A A G GAAAAAACCAAGGGAGGAGGGAGAGAGAGAG
 G GAA $A \operatorname{GCCA} A G G C C C C G G A G A G G G A A A A G G A A A A A A G G A A C C$ GAAAAAGGGGCAAAGAAAGGAAGGGGAAAAAAAAAAAAGGCC A A G G G G G G A A G GAACAA $A \operatorname{A} \boldsymbol{A} G A G G G G G A C A G C A G A G G A G A G G G$ A A G G G G A A C C T T G GACCCGGAACCAAAAAAAAGGGA GATA G G GAAAGAGGAGGGAAGAAGGGAGAGAAAAGGGGCCBGCAAGGG CAAACCGGGGAGGGGGGAAGGAGGGGACGGGAAAGAAAAGGG
 AAAAGGAAGGAAAAAAGAGGACCCCCGGAAGGAAAAGGGGAA C C G G G GAAATAGAGAACCGGAAAGCCACGAAAGGAAAAAAGG G G G A A A A A A A A G GAAACAGGGAGGGAAAAAAAGAAAAAGGGA AAGGGGCCAACCAAAAAGCCGAGGGGACAGGGAAAAAAAGCC A A A G G A G G A A G GCC G A A A GAGGAGCACCCCAGCCCCAC G GCA


C CAAAAGAAGGAAGGTTGGGAGAAGACAAGGGGAAGAGGGA
 CAAAAAAAGGAAAGAAAAACCCAGAAAGGGAAGAAAAAGGAG GAAGGAAAAAAACAAGGAAAAAAAAGGAGAAAAAAAGAAAAA
 C CAGAAGGAACCCCGGGGAAAGGAAACAAAGGAGCCGAGGAG
 AAGGCCCCGGAAGGGGCCAGGGAAACGGAAAAGGGAAAAAAG A A G G A C A A G GAAAA $A \operatorname{A} G A A A A A G G A A A A A A A G G A A G G G A A A G G$ GAACAGAGGGAACCAAGGAGGAGAAAAAGGAGACAAGAGAAA G GAACCAAGGGGCCGGGGGGGGAAAGGGAGGAA $\operatorname{CA} A A A A A G G G G$ C C G G G A A G G G G G A A A A G G A A G G A A A A A A A G A G A A G A A G G G G G
 G G G G G G G G A A G GAA A GAAGGAGCAGGAAGAAAGGGGCAAACA G GACGGGAAGGAGAGGAAAAGGGGATAAGGACGAGAGAAAAA G GACAAGGGAACGAGGCAGAAGGGGGCCGAGGACTTCCAGGA A G G GAACAGAGGCCAAAGAAAAGGAAGGAAAAAGAAAGAGAT G G G GCCAGAGCAGGCAACGGAAAACCGAGGAGGAGGAAAAGA A GAAATAGAAGGGACCAGAGAAGGAGAGCAAAGGAGGGAACC A A A G C G G G A G A A A A A A A A A G G A C C A A A A G G G A G G G GAA G G C C A AACGAGGGGAGGGGGGGCAAGGGGGGAAGGAGGAGGGAGAA GAACGAGGCCAAACAGGAGGAAGAGGAAGACCGGAAGAAGAA A A G G A A A A A GCCGGAGGAAGGGAAAGAAGAAGGACCGAAGAA A ACGAGTAGGGGAAAGAAGGGGAAGGCCAAAGAGGGAAAACC G G A G A A G A GACAAATACCGGGGAAGGTTAAACAAAAGGGGCC A A GAA $A \operatorname{G} G A G G G A A A A G G T A A A G A A G A A A G G G A G G A C A A G A A$ G GAAAAAACCGGCACAAGGAAAAAGGAAGGAAAAAAGGGGAG $A G A G G G G A A G G A G G A A G G C A G G A A G G G G G G G G A A G A G A A A A G$ GAGAGGGGGGAGAGAAAAAAAGGGAAAAAAGGGACAGAGGAG A GAACAGAGGGGGGGGGGGGAAAAAAAAGGAGAGGGGGAGAT G G G A A T G G G G G G A A G G C A G A A A A A G A A G C C C A T A A G A A C C A A GAAGCAACGGAAAAATGAGAGAATTAACAAAAGAAGAGGAGG G GAA A A A G A GAACGGGTAACAGAGACAGTAACGGGGCAAAAG G G A A A A A A GAGGAACCGAAAGGCCAAGAGGCCAAAGAGAGAG A G A A C C A G A A G A A A A A G GCA GA G GAAAAAAGGGGGGGGGCCCC G GAGCCGAGAAAAACCAACGGGGGGGAGAACAAAAGAAAAGA
 $C \subset G G C C G A A A A G A A A A G G G G A A G G G G A A A A C A A A C C A G A G G G$
 C CAGCCAAAGAAAAGAAGAAGGAAAAGGAAAAGGAAAAGGGA GGCCAAGGAAGGGGGGCCCCAAAAGACCAGAGAGCACCAGAG G G G A A C A G A A G G A A A A A A A G G G G A A A G GAAA A A GAA G G G G G G AGAGGGAGGAGGTAAAAGAAGGAGCAGGAAGAGGGGCCGGAT G G G G G GACGGGGGACCGAACCAGAAGCACAACCCAAAGTTTT GAAAAAGGCCGGCCGGGGAAGGAAAAAAGGGGAAGGGGGGGG A A A A A A G G G G A A G G A A A A C C GGCC GGAAGGAAAGAAA GAAAA G G G G GAAACCGGCAGACCAAGGAGAGGAAAGGGGGGAGAAAA G G G G A C A A G G T T G G GAGAAAGACCAGGGGGAGCCGGAAAACC AAAACAGGGGGGAGAAGAAAGGAACCAACCGGTTAGAAGGAA G G A A A A A A G G A ACCAAAAAGGGGGAAAAAAAGAGAAAGAGAA G GAAGGAACCGGAGGAAGAAAACCCCACGGCATTGGAAAGAA GAAGCAGAAGCAAGAGAACAAGAGGGAGGGAGCAGGGGAAAA A A C C A A G G A A G G G G A G G A G G G C A A A G A A A A A A G G A A G A C C A A A A A A A GCCAAAAAAAACCGGAACCGGGGACAGCCAAGAAAAA $A G C C A G G G G G A A A G C C G A A G C C G G G G G G G G G G A G A A G A A A G G$ C G A A A G G G GAC GAGACAGAAAACCGGTAGAACAGCCGGAAAA A G TA $A$ AAAA A $A \operatorname{AGGGAGAGACAGAGCAAAGAAAGAAAAAAGAG}$ A A A A A A G G A C G G A G G A G G G A A G G G G G A A A GACA A A G C G C A A A AAAGCCAAAAGAGGACAAAGCCGGGACGGGAGAGAGAAAGGA

A G G G A A A G GCA $\mathcal{A} A G A G A A A G A A G A G G C C A A A A G G G G C A G A A$ GAGGAAAATTAAAAAACCGGAAAAAAGAGAGGCAAAAA GAAA AAAAGACCCCGACCAAGGGAAGGAAAGGAACCCCGAAGAAAA GGCCAAAAAACCAAAAAAGGCCGGAAAAAAGGCCAAAAGGCC G GAAAAAAGGCCGGCCAAAAGGACAGAAGGGGGAGAGGAGGA A GAGGAAGCATAAGAGGAAAAACAAAGACCAAGGCAGGCCAG G GCCGGAAGGAGAGAAGGACAGGGAAAGGAGCGAACAAACAA GAAAGAGAAGGGAGCCGGAAAACAAGGAAGGGGAATGAAAAA C C C C G GCCAGGAGGGAACAAGAGGAAAAAGGAAAAAAAAAGG G G G G A T GAAAAAGGGAAAGGGGGAAAAGGGAAGGCCAGAAAA G G G G G G G G GACCGGAAACAGACGGAAGGAAGGCCGGAAGAAA ACGGGAGAGGAGAGGGGGAAAAAGCCAGAGGAGGAAAAAAGA A A A A G GAAATCAAAAAAAGAAGGGAGGAAACCATAAAACCGG A A GAAA A A A A A A A G GGCC CCGGTTGGAACACAAAGGGGGGGG G GAAAAGGAGCGCCAGAAAGAGGGGGGAAAGGAAACAAGAAT

GAA A G A A G G C C G G A A G G A A G G G G G G G G A A C C G G G G A A C C G A A GCCAAAGCCGACCAAGGGGAAGGAGAACCCCGGGGGGAAGG G G GAAGGAAAAAAGAGGAAAGGGAGGAAAAAAGGAAGAAAAA G GCCAAAGGGAAAAAGCCAAAGCCAAAAGGCCGGAAAATTGG G G G GAA G GAAAAAAACGACACCAAGGGGGACCAGAACCAAT T AAAACCGGAAAGAAGAAGAAAAGGGAGAAAGGAGAGGGCCAG $G G A A A A G G A A A A G G C A G G G A A A A A G G G G A G G A G G A A A A A G G A$ $A G C C A A G G A G A G A A C A C C G G G G A C G G G A A A A A G G G G A G G G G A$ GACAGGAAAAGGAAGGCAAGGAAGACAGAGAGTTAAGGAAGAG G G G G G G A A G G A A G G A A A A G G C C A A G G G G G G G G A A G A G A A A $G A$ C GAGGGGGCCAAAAGGGGGGCCAAAGGGGGGAGAAGGGGGAG A A G G G A C A G G G GAAAAAAGGGGAAAAACCAGGAAAGGGGAAAG GAGGAGCCGGGGCCAAGGAAAAGGAGAAAGGAAAAAAAGGGG G GAAAGCACCAAGGGCAGGGAAGGGGGAGGGGAAAAGACCCC A A G G G GAAAGGGCCAAAGAAGAAGAGGAAAAGTTCCGGACGG
 G GAA $A \operatorname{GAA} T \mathrm{~T} A A G G A G A A A A A A A G G G A C C C G G A A A A G G G G A A$ A A G G A A A A A A G G A G A A A A $\mathcal{A} G A A G G G G G G G G A G A C T T G G G G G G$ G GAGGGAAGGGAAAACAGAGCGCCGGAACCAAAAGAAAGAGA AAAAGGCCGAGAACGAGAAAAAGGAAATCCAAGGAAGBAACC G G G GAA A ACC G G GAGGGGCCGAGGGAGGGGAAGAAAAAGACC T TAAAA A $A$ A $A G G G G G G G G G G A G G G A A G G A A C C A A A A A G A A A A$ A A A A C C G G C C G G G G G G G G G G G G C C A A A A A A A A A GAAAA A A A A
 GAGAGAGGGGGGAGAACCAAAGGAACGGGGAGACGGCCGGGG A A G G G GACAGCCGAACGAAAGAGGCCGGGGGGGGCACAAAGG C CAA $\operatorname{C} G C \subset A A A A G G A A A A A G C C A A A A G G A A A A C C G G G G G G G A$ A A G A A G A G G G A A G G G A A A A G A A A G G G G A A A G G G G G G G G A G G G GAGGAAGGCCGACCGGGGAAGGGGAACCAAGGAAAAAAGGCC G G G G C A G G G G A A C A A G G A A A A A G G G GAGAA GAACCCCC G GAA CAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGGAACCAGGA
 G GCCAAGGAAGGGGGGGAAAGGAGAGGAAGAAGAGGAAAAAA A A G G G G A A A A A A A A A A A C C CAA A G G G GAGGAGAGCAAA G G C C A A G G G G G G A G G G C A G G A A A G G G G G A A G G A G G G A A G A A G A A G G C C G G GAGAGAGAAGACAGGAGAAGGGAAGGAAGAAAAGAAGAG GAGGACAGGGGGAAAAGGAGAGACAAGAAGACAAGAAGGGGA GAAAAAGGCCAGAAGGGAGGGGGGGGAGACAGAAAGGGAAGG A G G G A A G G G G A A G G G G G G A A GAGAAAGAGAAAAGGGGAACAA A A A G A A G G A A A G G G G A A CAAAGGAGAGGAAGGCCGAGACCAA AAGGAACCAACCGGGGGAGAGGCCAGGGGGACAGAAGGAAGG C C G G G G G G A A G A A A GAGGTTAGAAGAAGGAAAGGAAAA GAAA AAGGGGCCCCAGAAGAGGAAGGGGGGCCGGAAACGACAGAAG

AAAGGGGGAAGGGGAAGGAGAAGGGGAGAAAAAAAAAGAAGB
 A G G G G G G G A G A GACAG G GAGGGAGAAGGCCGGTTGGAACCAA AAAAAAGGAAAAGGAAGGAAGGAAGAGGAAGAAACAAACAGG A A A GAGGGAACAGAAGGGGGGGGAAGGGGGAGAGCCGGCCCC GAGAAAAAAGAAAACCGGGGGGAAGAAAGAGGAGAAAACCAG A A A A A GAGGAGAAAAAAAGAAGGAGAGACACAAAAAGACAAG GAAGAAGGAGGGGGGGGGGGGGGGAGGGAAGGGGGGGGACAA A A A C G A A G G A A GCC G A G G A A A A G G G A C C A A A A A C A A A A A A G G ACGGGGAAAAAAAAGGAAAAAGGGAGAAGAGGAAGAAAAGGG GAAACCGGACGAGGACGGACGGGAAGAAGGAGGAAAGAGGAA G GAGGAACGAGGGGAAGAGACCCAAAGAGGGGGACAAGAGAC A A A A G A A A G A A A A GAAAAAAGGCCCCGGAAGAGGGGGBAACAC A GAGACAGGAAAAAAAAGGGGAAAAACAGGAAGGAGGGAAAA G G G GAA A A A G G GAGGAAAAAGAAAAGCAAGGAAAGGGGGGAC G G G G G GCC G GAAAGAACCAAAAGGAACCGAGAAAAGAGAGAA A G G G G A C A GACCCCGGAAGGAGAGGGGAGACCAAAAAGCAAA G G G G G GACAAGGAAAAGAAGGAGGAAAGGGGAGGAAAAAAAG GAAAAGAGAAGGAACAGGAAAAGGAGAGAGGGGGGAGGAGGA GATAGGGGAGGAAAACAAAGGGAACCGAGAAACCGGGGAABA A A A A A A A A A GAAAA A A A GAGGAAAGAGAAAGGAAGGAA GAAA A GAGAGGAAGAAGGGAAAAAAAAGGGAAGGGGAAGAGAGAGA A G G G T T G G A A A A G A A G G A A A A A G G G G A A T T A A C CAAC C C C C C A A A A G G A $\mathcal{A} G G G G G G A G G A C A A A G G G G G A A G G A G G G C C A A A A A$ ACAGGAAGAGGAGGAAAAAGGGAAAGAGAGAGAGAGCACAGB GAAAGAAAGCAGGAACGGAAAACCAAAAGGACCCGCGACCBG G GAAAGGACAGAGGGGCCGACCGAAGCAAGGAGAAGGAAGAA $A G A C A G A A G G G G A A C C A G A G G A G A A G A A A A A A G G A A A A G G G G$
 $A G C G G A G G G G A G A C A G G A A A G G A G G G A A C A G G A A C C G A A A G G$ A G G G A A A A A G A GAC GA GAGAAAAAAACAAAAGCAAAAGAAAA GAGAAAAGGGAGGGGGGGAAGGAGGGGAGAGAGGCCAAAAGG G G G G G A G G A A G G G G G A G G G G A G A A G G G G A A A A G A G GA G A A A $G$ GAAGGAGGGCGGAGGGAAAAAAAAAGGAAAAAGGAAAAGGGG A G G A G A G G A G G G A G G G G G G A G A A T G A A G A C A A A G G G G G G G G G A A C C A A G A A GCACCGGGGCCAGCCAAGGAGAGGGGBAAAA GA A GAGCCAACAACAGAAGGCGCCGGGAGAGACCCCAAGGGGGG A A A A T T G GAAGGAAGGGGAAGGAAGGAAGGGGGGCAAAAAGA G G C A A G G G G G A GAA A $A \operatorname{A} A G G G A G A G G G G A A G G G A C G A A G A A C A$ $A G C A G G G G G G G A G G A A G G G A A G A G G G G G G G A A A C G B A A G G A A$ A A G G A G GAGGGGGGGGAGAGATAAGGGAAACCAAGACAGGGG A A G G A G A A G G G A A G C A A A A A G G A A A A A GAAA A A A G G A A A C T T GAATGGAAGGAAAAAAAGAAGAAAAAGGGGGGGGAAGAAAAA A A G G G G G G G G G G A A C C A A G G G G A A G G G G C C A A A A C C G G G G T T A A G G G G A A A A C CAA A A C CAGGGGGAAAAAAGGCAA G GA GACA A GAAAGAAAGAGAAGGCCACAACCGAAAAGTAGGAAAGAGBA GACAAGAAGGAAAGCACAGGGGAATTGACCGAACGGGACCAG GAAAAGGGGGCAGGAGCAAGGAAGCCAGAGGGGAAAACAGGC A G G GAGAGAAGGGAAAAGAGGGGGAAAGAAAAATGGAGGGAA G GAAAGAGAGAGAAGAGGAAAAAGAAAAAGGGGCCCAAACAA GAGGGGAAAGGGAGAAGGAAAAAAAATAGGAACCGGGAGAGC CCGACCAGGGAAAAAAAAAAGGAAAACCGGGGAAAAAAAACC G GCCGGAAAACCGGGGGGAAAAGGAAAAAAGGGGAAAAGGGG AAGGAAGAGGAAGGGGAGGAACAGGGGAGACAGGAAAGACGG A A G G A A G G G G A G G C A G A A G A A A G G T T A A A A G G G GC C A G G G A G CAGGAGAAAAAAAAGGCCGGGAAGGAGGAAGGCGGGAAAACC $G C A A G C G G G A A G A G G G G G A A G G G G G G G G C C G A A A G A G A A A G G$ G G A G A A A G G A A A G A G A A G CA G G G A A GACA GA GA G C A G G A G G G $G G G C G C A A A G A G C A G G G G A A C C G G A A A A G G G G G G G G A A A G A G$

A A G G A A A A A A A A GAGGAGAGGGGGAAGGAACCAAGAAAGGGG C C G GCAA $\mathrm{C} A \mathrm{~A} \mathrm{C} G \mathrm{G} G \mathrm{G} A A A A A A A G A A C A A G G G G G A C A G A A A G G G G$ T TAA GAAACAGACAACAAAAACGAAAGGGGGAGAAAGGGAAA $C \subset G G G G A G A A G G A A A A T T C C C C A A G G G G G G A G A A G G A G G A A A$ CAGACAAAACGAACCGAGAACCAACGGAAGAAGGGGGGAGGA C C C C A A G A A A G G C A G A T T G G G G G G G G G G A A A A G G A A G G A G G A GACA A G A A C C A A G A A A G G G G G G G A A A CAGGGGGGGAGA G G A A GAAACCAAGGACAAAAAAGGGGCCAGGGACAAGGCCGAGGAA C C A A G G A G GAA GAAAAGATAGAAAGGAAGAGGAAAGGGCAAA AACCGGGGAGAGAAGGGGACGGAGGGAGAAAATTGGAAAAAG GAAAGGGAAGAGAGAAGGAGGACCAAAAGGAAGAGGACAAGG A G G A A A G G G G A G G A A A GAGGAGACATGAGGGAAAGAAA GAA G GAAAAAAAAAGGAACCCCGAGAACCAAGAGAAGGGGGGAGGG A A A A A A A G G A A A A A GAA $A \operatorname{GGGGGAACCAGCAAGCGGAGGGGGG}$ G GAACCGAGAGGGGCAGAGGCCAAGACCAGCCCCAAAAAAGG A A A G G G T TAA A GATAAGGACAAGGGGAGAAGAAGGGA
A GAA A A G A A A A A A C C G GAGGGGGGAGGAGAAAGGGAGCAA G GAAGGAAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAAAAGG GAAAGGAAAGGGGACAAAGGGGAAAAGGAACCGGGGAAAGGG G GCA G A A A A A G GCA A G G G G GAGCCAAGGAAAAAGGACAAAAC A A A GAATTAAGAGAAGGGGGAAGAAAAGCCGGGGGGAAGGAA A A A A G A G G A G G G G G A A G G A A A G C C G GAGGGGGAA G G G G C C G G
 G GAGCCGAGGAACAGGGGAAAAGGAAGGCCCCAAGGAGAAAA A A C C A A A A G G G A G A G G G G A G G A G G A G G G G A A G A G G G C C G G A A G GCAA C G A A G A A G G G G A A G G G G C A G G A A A A C C C C G G A A G G A A A A GAA A A G G GAGAGGGAAAAAAGGAAAGGGGGGAGGAAGGCC A G G A G GCCGAGAGGGGAAGGAAAAGGAAAAAAAAGAACAGGG GAGAGACCAGAAAGCAGGAAAGCAGGAGAGGGAACCGGGGGG C C A A A A G G A A CAAA A A G G G GAAAAGGGGAAAAGAAAGGAAAA A C C C A C G G A G A G T T G G G A G G A G C A A G A G G A G G A G G G G G G G C C G G G G G GCAGGGGGGGGAAAGCCGGAAAACCAAGAGGAGGAGA A A A A G GAA A GAAAGCCGGAAAAGGGGGGGGGGAAGAAAAAAG G GCCACGGGGAAGGGAAGGAGAGGACCAGGGGACGAAAGGGG A G G G G G A A A A G A A G A G A G G A A G A C A G G G G GCC G G A A G G G A A G C CAGAGAGGAACGGAATTAAAAGGGGGGCCGGAAGAAAGGGG G G G GAAAACCCCGAGGGAGGGAGGGGGGGGAAAACCAAGGGG $A C C C G G G A G A C C G G G A A G G G A C G G A G C A G A G G A G G A G A G C C C$ A G G G A GA G A C A A A C A A A A A A G G G G A A A C G GA G G G G G G G A G G G
 AAGGGGAACCCCGGGGGGCAAGGAGGAGAAGGAAGAAGAGAG G G G G A A A A C C G GA GAGGGGAAC GACCAGCCAAGAAGAACCGG G G G G G G A A A C G G G G G G A C A G G G A G G G A A C C A G G G C C G G A G G G G GAGGAAAGGAGCCAGAAGGCAACAGGGGGGGGGGGAGAGAG G GAGAGAAAAGAGGAAAAAAAAGGGGGGAAGGAAGGGGGGGG
 ACAAAAGGAGAACCAAAAAGGGAGAAAAGGGGGGGGAGGGGG A G G G G G G G T T A GAGACGGGGAAAACCAAGGAAAGAAAACAG G G GAAA A G G G GAA $A \operatorname{A} G A A A A A A A A A G G G A A G G A G A A A A G G G G G G$ G GAGGCAAGGAGAGGGCCGGCAGGAGAGCAGGGAACACAGAG A G G G G A C C A GCC G G GAGGGGAAGGAAAAGAGGAAAAGGAGAA $G G A A G A G G C A A A A A G G G G G G G A A G A A G G A A A A G A G G A A G G T T$ G GCAAAAGGGGAGGAAACGGGGGGAAAAAGGGGAAAACGAGC A GAGGGAAAAAAAGGGAGCCAAGGCCAAAAAAAGAGAACAAA GAACGGGGGGAGAAAAGGCAGGCAAAGAAGAAAAGGCCAAAT $A C G G G G C A G G G G A A A A G G G A A A G G G G G A G G A A A A C C G G A G A A$ G G G GCCCCAAGGCCGAGAGGAAAGGCGGCCGGGAAAGGTACX A G A G A A A GA A G G G A A A C C A GAG GAAAGGCCACAA GC GA G GAA GAGAGGACCAGGAGAGAGAGGGAGAGCCCCAAAAAAGGGGGG

C CAGAAAAGAGGAAGAAAGAGGGGACAAGGGGAAAAGAAGAA TAAAAAAAAAAAGGGGGAGACAAGGAAACCAAAAAAGGGGAG AAGGCAGACCGAAACCAAAACCAACAGAGGAAGGAAGGAAAG GGAAGGCACCAAAAGGAAAAGAGAGAAAGGGGAAGGGGAAAA $G G C C A G C A A A A G G G A A G A A A G G A C G G A G G A A A A A A A A A C A A A$ GAGGAAAGGAGGGGAAACGGAAGGGGGGAGGAGGAAACAGAG C CAAAGAAGACCACGAAAGGGGAAGAAGGACAACAAAGAAGA AA $\operatorname{A} G A A A A A G G A A G G G C C A C A A A A A A G G A G G G G G G A A A A A G G$ G G G G G G G G A GAGGGGGGAATGGGGAACAAAAAGAGGCAAACC GAAGGAAGAGGGAAATAAAAAAGGAAAACCAGAGCCACAAAA ACAGGAAGAAAAAGGGAAGGGGCGGGGGCATAAAAAAAACBG A A C A A A G G G G G A G G G G A A G G A G A G G G G G A C A G A A A A G G A A G G G GAGGGGGAGAAAAGGGGGGAAAACCGGGGCCGGAACAAAAA C CAA A GCCCCGGAGAAACAAGGGGAGGAGGCCAGGGAAAGAG GAAGAAGGAGGGCCGGGGGGAAAAGGGACCAAGGAGCCGGGG G GCAGACAAAGGGGCCAAGGAGAAAAAACCGGAAAAGGAAGG GAAAAGCCAAGGGAAACAACAAAAAAAGGGAAAAAAGACCCC C C G A C A A A G G A A A A G G A A G G G G A A A A G G A GAA GA GAACAAC C AAAGCCGGAAGGCCGGGGCCAAGGAAGGCCGGAAGAGAAAAG A A G GCCGGAACCAGGGAAAACCGGGGAGCCAGAAGACCAAAA AAAAAAGGGGGGGGGGGGAAAAGGAAAGAAAAAATTCCAAGA G G G GAAAACCAAAAGGAAAAGAGGAAAAGAAGGGAAGAAGAC A A G G GAGGGAAAGAAACACCGGACGGAGGATTAAGAAAAGAC A G GAGGAGCCCAAGAGCCGATAGGGAAACCAAAAGGCCAGAG GAAAAACCAAAAAAAAGGAAAAAAGGGGCCGGGGGGGGCCBG AAAAAAAAGGAGGGGGGGAAAAAAAAGGAAGGGGGGAAAAAA GGGGAAGGCCAAAACCAAAAAAACGCGGCCAAGGAAAAAAAG G GAA A A G G G GCCAAAAGGAAGGAGGACAAAGGGAAAAAAGGG G G A A T T G G A A A C G G G G G G G A A C G G G G G A A GAGCCAC G GAAAA AAAAAACCGGGGAGGAAAAGGGCCGGGGGACAAGGACCAAGA A A A G G G A A G G G GA G G G A A A A A A G G CAAAGGGGA GAA G GA G G A AACCAAAGGACAAAAAGGCAGGAAAACCCCGGGGAAGGCCAA
 G G A A A A G G G G G GAAAAAGGGAGAAGCAAAGGAAAAAAGGACAG A G G GCAAAAAAGGAGGAGACAAACACAGAGCCAGCAGAAAGG A G A A A A G G A G G C G G G G A G A A G A G A G G G G G A A A G G G G A A A G A A G G G G G GAAAAA $A \operatorname{A} \operatorname{A} \operatorname{A} A A A A A A G G G G C C A A G A A A A G A A G G G G G A$ AA GAGGAAAATTGGAAAAAAAAAACCAAGGGGAAAACCAAGA GAAAGGGGAAGGGGCCAAGGGAAGAAAGAAGGGGAACCGGGG A A G G A A A A G GAACCGGAGGAAGAGAGAACCAGAAAAATAAAG $G G A A A A G G G G G G G G A A G G G G A A C C A A C C G G G A A G G G A A A C G G$ G G G G A G G A A A C C G G G G A G G G A A G GAAA A C G G GAAAA A A GAA A A AAGGGAGAGGGAGGAGGGGGGGAAGGGGAAGACAGGAAAAGA A A A A G G G G A A G G A A A A A G G GAGGAAAAACAGGAAAGGAACAA
 TA $A G G G G G G G A A C C G G A A A G C A G A G G G A A A A A G G G B A A A A G G$ G G G G G G G G G G A A G G A A G G A A GAGGAACCAAAAGAAAAACCCC ACAGCAAGAGAAGGGGTTGAAAAAAAAAGGCCAAAGAAGGAG
 A A G G A A G A A G A A C C G A G G A A G G C A A G G G G A A A G G G G G G A A G G G GAGGCGGGAAAGCGAGGGGAGAAGGAACCGGAGAAAGAAAA $G G A G C C G G A A G G A A G A A A G G A G A C C C A A A A A C A A A A G G A A G A$ A A C C G G G A C C G GAACC G G G G G G A A A A G GCCAC CAAAGGC CA A G GAAAAACCAAAAGGAGAAGAAGGAGAGAAAAGGGGAAGGGG A A A A A A T T G G G GCCAAGGAAAAGGAAAAGGGGCA GAGAAAGG A A G A G G A A A A G G A G G G G A C G G G G G G G A A G G A A A A G G A G G A A G GA $\operatorname{G} G \mathrm{G}$ GAAAAACCAAAAAAGGGGGGCCGGAAGGAGAAGAGGAG A G G G G A A G GA GAGACCAGAGGAAAGGGGGGAGGGGGAAAAAA GGAAGGACAAGGGGCCAAAAGGGGGGAAAGGAGGGGGGAACA

G GAGAGACAGCAAGAAGGAGGAAAAGGGAGCAAAGAGAACGG GA $\operatorname{G} A A G A A A G C C A G A G G A G A A G T T G G G G G G G G G A A G A C A G G G$ AAAAGGACGGAAAACCACAGAACCGGGGAAAAAGAGAAAGAA AAAAAAGGGGCCAAGGGGGGGGAGCCGAAAGAGAAAAAAAGA AAAAAAGGGAGGGGCCAAGGGGGGGGAAAAAAAGCCGAAACC T T G G G G C A G A A A A A G G GCGGC CAAAAGGCCAAAACCGAGGCC
 GGGGCCGGAGAGGGGGAGAGAACAGAACAAGGGGGGAGAAAG ACAAGGAAAAGGAAGAAGCACAAAGAGGAGAAAAGAAAGAAA $C C G G G G A A G G A A A A C C G G G G G G G A A G C A G G A A A A A A A A G A A A$ AAAGGGGAGGGGAAAACAGAAAAGGACAAAAAAAGGCAAGBA GAGGAAGAAAAAGGGGGGGAAGCCAAAAAAAAAAAGAGAAGBG C C G G A A A A A C A A A G GAGGAAGAAAAGAGAATTGGGGCA GAAA GACCAAGACAGAAAAATACACAAACCGAAGAGGAAGAAAABA GACCAAGGAAAGGGGGAGGGGGACCCGGCCGGAAAAAACAAA AACCAACCAAAAAAGGGGCCCCGAGGCAGGGACCGGA
A GAA A A GAGACCAGAAAAAGGGGGAGGGGGGAAAAGGAAAG G G GAGGGGAGGAAGAGCCAGCCGGAAGGAAAAGGAAAAAAGG $C \subset C C A A G A G A G G G G G G A C C A G G A G C C G G G G A G G G A A G G A A G A$ GAGAGGAAAACCGGAAAGAGGGACCAAGGGAAAGGACAACCC AAGAGAGGAAAGGGAGGGGAGGGGGGCCAGAGAGCAAAGAAA ACGGCCCCAGGGAAAAAAGGGGACGGAAGGGGAGAAGAAAGG AAAGGGAAGGAAAAGAGAGGCCAAGACCAGGGCAGAAAAACC A ACCAAGGCAAAGAAAGAAGGGGGGGGGAGGGAACAAAAACC C C A A GAGGCCGGCCGGAGACGGGGAAAAAAACAAGAAAAGGG AAGGACGGGGGGAAAGGAAAAAGGAAAGCGAAGAGGGGAAAA
 A A A C G G G G G G A A A A G G GAGGGAAAGGAACCTTAAACCAGACC A A G G G GAA A G A G G G G G G GAGGGAACCAGAGGAGAAGGAA GAA G G G G G GCCAGAACCAAGGAGAAGGAGGGGGGAAGGGAGAAAA G G G GCCGGGAGAAAAAAGAGGGAAAACCGGCCCAAAAAAAAA $C C G C A C G G A G A A G G A G A G A A A C G G A G G A C C A A A A G A A A G G G G$ G GAA A G G G A A G GAA $A \operatorname{ACC} C A A C C G G G G G G G G A A A G G G A G G A G G$ A A G G G A G G G A A G G G G G G A A GAG G G G G A A G G GA G A A G A A C C A A G G T TA G G A A A G A A G A A A A A A A A A A A GAGAAAAAA G GAA GA G G $G G G G A A A A G G G G A A A G A A G A C C G A C A G G G G A A A A A G G G A G A G$ AAGGAGGGAAGGGGAAAATTAGCAAAGGGGAAGAAACAGAGG A A G G G GCCGGGAGGAGAAACGACGGGGAAACCGGACGAAGAA G G A A G A G G G G A A C C A A $\mathcal{A} G G G G G A G G G A A G A A A G A G G G G G G B A$
 G G G GAAAAAAGGACGGACGAGAAGACGGAAAAGGGGAGAAAA G G G G G G A G A A A G A G A G A G G G G A A A A G A A G G C C A A G G G G A A G G G G G GAAAAGGAGGGGGAAAAGGGGAGAGGACAGAGGCCAAGG G G A A A A T TAAAGCCGGAAGGAAAGGGAGCCGAGGAAAAAAGA G G G GAACCAAGGAAAAAAAAAAGAGAAAGGAAGAGCAGAAAA C C G G G C G G G G A A G G G G G G A G C C A GAAGGAAGGCCACAAAACC
 G GAACCGGGGCCCCGGGGGGTAAACGAAGGAAGGGGGGACAA
 GAAGCCAAGGGAGGCCGGAAGGAGCCGGAAAACCAAGGAAAA C C G GCCAACCAAACAGAATAAAGGAAAAGAGAAAGEAGCGGG G G A G G G A G T T A A C C G A G G A G G G G G G G A G G G G G G G A A A A A A A T GAAGAGGAAAAAGGGGAGAGAAAAGGCAAAAAGGGGAAAACC AAAGGAAAAAAAGGCCGGAAAAGAAAAAAGGGGGGGGGGACC A G A G A A G G G GCC G A G G G G G G G G A A A GAC G GCC G G G A A G G G G A A A G A G G G G A G G G G A G G T A G A A G G A A A A G A G A G A A A A G A T T G A CAGAAGGGAATTAGCCGGCAGAAGGGAACCGGGGGGTTACGG CACAGAAAAAAAGGAAAAGGGGAAAAGGAAAAAAAAAA GAAA


G G G G G GAA $A \operatorname{GGGAA} A A A A G G A A G G G G A A G G G A A A A A A A G G T T$ A A A GAGGGAAGGAAGGCCAAAGCCCCAGAGAAAAGGGGAAGB GACCAGCCAAAGCCGAAGAACCGGGGGGGGAAGGCCGGAGGG G GAAAAGGGGCCGGGGGGACAAAAGGGAGGGAAGAAGGAACC $C \subset A A C G G A G G G A A C G G G G G G G G G G A A G G G G A A A G G A A G A G G G$ AAGAAGGAAGAACCGACCGGAGAGAGAAAAGGAAAAAAAAAC ACGGAAAAGAGAAGGGGGAAAAAAAGAAGGAAAAAAGBAAAA AAAAAAGGAAACCAAGAAGGAAGAAAGGAGAGAGAGACAAGB G G A G G G A A A G G G A G G G G G G G G G G C G G G G G G A G C C G G C C A A C A G GAAAAAGGAGAGGGAAGAGGGGGACGGAAAAGGCCGAAAAG ACGGAAAAGGAAAAGGAAAGGGGACCAGAGCCGGAAGAAAGA G G GAGAAAGAGGGGGAACAAAAGAGAAACCGAAGCCGGACAA A A G G A G G G GA $A$ A A A A G GACA $A \operatorname{AGGAAGGGGAGGGGGAGGAACAA}$ C C A A G A G G G G GAGGGGCCAAAAGAGGGGGAAAAAGGCA GAAA G G G GAA $A$ GAAAAAACCAACCGAGAGAGGAAGGAAAAGACCCC $C C G A A G G G G G G G A A A C A G A A A G C A A G G G A A A C A C A G A G A G G A$

 GGGGAACCAAAACCAAGGAAAAAAAACCGGCCAAAGAAGAGA A G A G C A A A G G A A G G G G G G G G A A A A G A A C A GAAA A GA G G A G A A AAAAGGCAGAAAAGAAAAGAAGACAACCAGCGGGGGAACAAG A GAGGAAACAGGAGTAAAAAGAAAATTTCCAACCGGCCAAGG G GAGAAACAGAAGAGAAAAAAGGACGGGGGGAGGAAGGCCAT A A G G A A G G A A G A A A G G A A G G A A A A GGGGAAAAACAAA GAAA A A G G G A C G G A A G A G G G G G G C C G G G A G G A A A A G G A A G G G A A G G A GAAAGAAGGGAAGGAAGGAGGAGGCCGGAGAAAAGGGAAAAG G G G G G A G A A A A G G G G G G A G GAAAGGAGAGAAGAGGGCAAAAC GAAGAACCAAGGGGAAGGGGGGGGGAGGAAAAAAGAAAAAGB A G GAGGGGGGCCAAAACCGGGAGGGACCGGAAAAGAGAGAGA CCGGCCAAAAAAAAAAGGAAGGAGAGAGGGGAAAAGGGGGGG G G A A A A G A GAGGGGACAGGGCCAAGGCCAGCAAAAGACAAAA AAGGGAAAAGGGGGAAGGGAAGAAGGACGGAGAGGGGAAAGG G G G G T TA $\mathrm{T} G \mathrm{G}$ A A GAAGAGCAGACCAAAAAGAGAACAAAGGGG G G G G A A A A A A C C G G A A G G A G G A A GAAAAGGAGGGGGGGAA GA G GAGGAAAAAAACACCGGGGAACAGAGAGGGGGCAAAGAAGA G G GAGGACGAAAGAGAAAAAAGGGGGCCAAGAAAGAGAAAAA G G GACA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAGGAAAACCCGGGGAAGGAAAAGG GAGGGGGGCCGGGAAACGCAGGGAGGAAGGGGAACACAGAGG A A A A A GAACA $A \operatorname{A} \operatorname{A} A A A A G G G G G G G G A G G A G A G A G A G G A G A G A A$ ACGAGAAAAAGGGACCAAGGGGAAAAAATAAGACACAAGGAG $G A A C G A G G A A G G C C G G A A G G G A G G A G G G A A T A G A G G G G G G G A$ G A A A G A G G A A A G A A G G A A A A A A C A A A G A A G GA GA G G G A T T C C ACAGGGCACAACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA C G GAGGAGAACCACGGAACAGGAAGAGGAAGGAGAGGAGGGG G G G G A A G G G G G A A G G G G G A A A A G G A G A G A A G G G G C C A G G G G G G G G G C C G A G G G A A G A A A A A A G G G G G G A G G G C C T T C C G G A A G G A A G GCAGACCCCAGAGAAAAGGGGCCAACCAAGGGGGGGGGG G G TAA A A A G G G GAAAAAAGAGAGAAGGGAAAAAGAGGGAAAG T T GAAAAAGAAAGGAAAAGGAAGAGAAGACAGAAGGGGACAA G G A A A A G GCCCAGAGGGAAGGACCGGCCGGAAGGCCAACCGG C G G A A G A G C C G A G G G G G G G G G G A A C C G G G G G G A A G G G G A A A A G G G G A A G G A A A A C C G G G G A A G G G G G G G GAACCCCAAAA G GA A G G C C G G G G A A A A $\mathcal{A} G G G G G A A G G G G A A G G A A A A G G A A G G G G G G$ G G G G T T A A G GAACCGGAAGGCCGGGGCCGGGGGGGAAAGGGG AAAAGGAAGGAAAAGGCCGGAAGGAAGGAAAACCGGAAAAAA A A A A A A G G A A A A G G G G A A A A C C G GAAAAAAGGGGGGAAAAAA
 A A A A A A G G G GAA $A \operatorname{Ag} G \mathrm{G} A \mathrm{~A} A A G G A A G G G G A A G G A A G G A A G A A A$ $G G G G A A G G G G A A G G G G G G A A A A G G C C A A A A A A G G G G G A A A A A$

G GCCGGAAAATTCCAAGGGGAAAAAAAAGGGGGGAAAAAGGG G G A A A A G G G GCCAAAAAAGGGGAAGGAACCAAGGAAAA GGGG A A G GAA A GAGGGGGAACAAACAAAGAAAGGAAAAGGGGGGCA G GAAAGACAAGAAGAATTACAGGCGAAAAAAGGGAACAGAAA A G GAACAAAAGGAAAAAAAAAAGGAACCAAGGAAGGAAGAAA G G G G A A G G A A G G G G G G A A A A A A A A A A G GAAA A G G GA GA GA C A A G G G A G A G GAAAAAAGCCGAGGGGGAAAAAAGAAAAAAGGAC $A G A G G A C G A A A G G A G A G G A G A G G G G G C A A G G G C G G A A G G G G G$ G GAA A A G G A A A A A G G GACGGCC GAAGAAGGCCAACCGGAGAG G GAAAGGGAAAGGGAACAAACAAGAGGAGAAGAGGGAAGAAG G G G GAGACGGAAGGAAGGAGAAGGAAACAGAGGGGGAAGAAA GAAAGGAAGACCGGGAAAACGGAAGGAGGGCAGAAGGGAGAA A A G G G G G G GAGGCCCCCCGGGGGGAAAAAAAAGGGAAACC G G G G G G A A A A G G G G G G A A A A G GCCAACCGGGGCCAAAAGGABAA G G G G A A A A G G A A A A G G G G G G G G C C A A A A A A G GAA G G C CAAA A A A A A G G G G A A A A G GCC $C$ G G G G A A $\mathcal{A} G G G G G G G G G G G G G G$
 G G G G A A G G A A A A A A A A A A A A A A A A GGGGAAGGGGAAAAAA G G A A G GAAGGCCAACCCCAAAAAAGGGGAAAAAAAAGGAAAAAA G G G GCCGGGGAAGGGGAAAAAAAAGGGGAACCGGCCCAAAAA AAAAAAGGAAGGAACCGGCCGGAAGGAAGGGGGGGGAAAAAA G G G GAAAAGGAAGGGGAACCGGAAGGCCGGAAGGAAAAGGGG AACCAAAAGACAGGAAGGGGAAAAAAAGAAAAAAAGGAAAGAG $G G A A A A G G C A A G A G A G G A G G A G A A A A G G A A A A C C G G C A G A A G$ A G G A G A A C A G A A G A A A A A A A G G G A A G C C A G G G G G G G G G A A G A A A G GCAAA C A $\operatorname{AAAAAAAGGCCAAGGGGGGGAGAGACCAAGGCC}$ AC G GAAAA A $A$ A A A G G G GAA $A \operatorname{A} A A A A G G G G G G G A G A G G G A A G G A A$
 A A A A A G G G A A G G A G G GAGGGGGGGAAGGAAAGAAAACAGGAG G G G GAAGGGGGGGAAAAGAAAGAAAAAAGGCAAGGAGAACAA ACGGAACCAAGGAGAAAGAGCCAAAAGAAAAAGGGGCCGGGG A G G A A A G A A G G A GA A G G GAGAAAGGGAGAGAGCAGGTTACGG G G G GAGAAAAGGCACAAACCAAGGAGAAAGGGGGAAAAAAGG $A C G G C C G A A A G A A A A A G G A A G G A A A A T A G G G G A T A A A A G A G G$ A G G G G G A A A A A A A C G G A A A GAAAAAA A $A$ A GGGGAACACAAA G G GAAAGGAAAAGGAACAAGGAGGGACACCAAGGGACAAAAAAA
 A G G G GA $\operatorname{A} G A G G A G G A A A G C C C C G G A A G G G A A G A A A G G G A A G A$ GAAACAGGAACCGGGAGAGGAAAAAGCCAAGGAAAAGAACAC GA $A$ A $\operatorname{G} A A G G G G G G G A A A G G G A A G G G A A A G G A A A A A A G B A G A A$ A GAGAACCGGGGGGGGGGGGAAAAGGGACAAAAGAGCCAAAA G GAA A G G G A A A GAAAA $A$ A GAGGAAAAGAGACAGAAGGAGAAAA AAGGAAAGCAGAGGGAAGCCAAGGGGCCAGGGGGCCGGGCAA A G G G A G G G G G A A A A G G A G A GC G A GCCA G G GA G A A A G A G G G A A G G G G A A A A A A A G G G G G G A A A A A G G G GAGC CAAA A G A A A G G G A G GCCAAGGGGAAGGAAAAGAGAGGAAGGAAGGGGGGGAAAAAA A A GAG $\operatorname{A}$ GAAAAAATTCCAGGGGGAAGAGAGAGAGAAAGAAAAA GACAGGAGCAACCAAAGGGAAAGGAAGGCGGAAGGAAAGGGG CAGAGGGGGGAAGACCAGGAGGCCCAAAGGGGGAAGAAGAAG CA GAAAAAGGCCAGAGGAAAGACAGAAGAGAAAACCGGAGBA C CAAAAAAGGAGAAAGGGCCGGAGGAAAGGAACAAGGAGAAA G G G G A G A G G G A A A A A A A A GAGGCCAGAAAGGGAAGGAAAAAC G G G G G A A A A A A G G G G A G A A G G G G G G GA G A GAGGGA G GA G A C A $A T C C A G G A G A C C A A A G A G G A A G C A G A C A A G A G G G A G G A C G A A$ A GAGGGCGAGAAAGGGGGAAGGGGCCGAGGGAGGAGAAGGGG GATAACGGAAAAAGGAGGAAACCCAAACAAGGGGGAAAAGAA
 G G G GAACCCGGAAAGGAAAAAGAGACGAGACCAGAGAGACAB A A GAGAGGAGGAAAAAAGACGGGGCAGGGGAGACCACACAAA

GAGGGGAAAAACAAACGAGGAACCGGCCGGAGCCGGGGGGGG A A G G G GCCAAA A G G CAAAAAGCAAGGGAGGGGGGGAAGAAGAG A G A A A G G A A A G A A A GAGAA A G G G G G G C CAGGGGGGGCAAA G G AAAAAAGGAAGGGGAGGAAAGGGGAACCGAAAGGGGAGAGAG AAAGAGCCCAAAGGAAAAGGGGAAGGAAAGGAGAAGAGAACC G A A A A A A A A A G A A TA GAGAACCCCGGAGGAGAGAGAGAGGAA AAAGGGGAGAAAGGGGCCGGAAAAGGGAAACACCBAGACAAG A G A A A GAAAAAGGGGGGGGAAAGGGGGAGAAATTAAAGAACC G G A G G A G G A G G G A A A A $\mathcal{A} G G G G G G G G G A A A A G G A A A A A A A A A A$ G G G G G GCCGGAGACAGGACAGAGAAGAGGAAAATAAACACAA AACCAAAAGGAGAAAAAAATCCCCGAAGGAGGGAACTTGGGG G GAAGGAAAAAAAAAGGACCGAGGGAAGGGAAAAAAAAGAAA G G A A A A G G G G A A G G G G A A G G C C G G G G A A A C GAA A A GAAAAAA A A C A G A A G GAA A A A A GAAA A A GAACAA G G G GA GAGACCCCCA CAGGCAGGGAGGAAAAACAAGGGAGGGCAGCAAAAGAGAGGG GAGAGGGAGGAAACGAGAACGGGGGACCAGCACACCCAACAA $G G C C G G A A A A A A G G G A A A A C G G G G A G A A C C A A A A A A A A A A A G$ AA G G A A A A GAGGGGACAGAACAGAAAGGAGAACCAGAAGGCC GAGGGGGGATAAAAGAAGAAACAGGGAAAGGAGGAAAGAGAA G G G GCCGAGAGGCAAGGGAGAAGGGAAAGAGAAACACACAAA G G G GAA $A$ G A GAGAA $A \operatorname{GA} A A A A G A A A A A G G A A G G A A A A A A A G A C$ GAGGCCAGAGAACCCCAGAAAAAAGGGGAAGGGGAAAAGGGG
 A G G A A A G A G G G A A A A A A A G GAA A A G GACAAAAGGGGAGACAA A A A A G A A A A G A A C CACAAAACAGAAGGGGGAAAGGACCGGGG GAAAACGGGAAGAAGGAGGGCAGAGGGAAGAGAGAAGAAAAG A G G GAA A A G G G GAGATAAGAACAGCAGGGGGGAAGAGGAABA GAAGGGAAGGCCAACCGGAAGGGGGGACAAAAAGGGAAATGA G G A A A A G G A A CAAAAAAAGAGGAGCAAAGGACAAAACCAGAA A G GAGGGGCCAAAGACAGGAAGGGGATAGGGGGAGGGGAAGA A A A G G G A A G A C A T T A A G A A GA G G A A G A G G A G G A A A G A A A A G G AAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGGAGAGGAG AA $A \operatorname{GGGAA} A G G A C A A G G G C A A G A G C C G G A A A A G G A G C A B A A A$ AAAAGGAGCAGAGGAGAGGACAAAAAGGGGGGAAGGAGAAAA $G G C C A A A A A A G G G G A A A A A T G G G G A A G G A A A A G G A A A A G A G G$ GAAAGGGGAAGGGGAAACGGAAAAGAGGCCGGAAGGGAGAAC ACATAGAAAAAGAAAAATGAGGAGCAGGGGAAGGAAGGGGGG GGCCGGGGAAAGCCAACCGGAAAAAAAAACGGAGGGACAGAG A A G G A A C C A A G G G G C A G GCCGGCCGGCCGGAGGAAGAAAAAG $G G C C G A A A A G G G A A A A A G G A G A A A G A G G G G A A A A A G G A A A G G$ G G G G G G A A G G A A C C A A A A G G G G G G G G C C G GAAAAAAA $A$ A G G G G A A G G A A A A G G A A A A A A G G G GAA $A \operatorname{GGGGAACCAAAAGGGBAACC}$ AACCCCGGAAGGGGGGAAAAGGGGCCGGGGAAAACCGGAAAA A ACCAAAAAAGGGGAACCCCGGGGCCGGAAAAAAGAAAGGAA C C C C G G G G G G G G G G G G A A G G G G A A G G A A A A A A G G A A A C G G G G G GAAAGAGCCGAGAAGGGGAAGAAGGAGGGAAAAAAAAGAGG A G G G A G G G A A G G A A G G A A A G G G G G A A G G G G A A C C A A A C A A G G A GAGCAGGGAAGCAAGGAGAAAGGAACCGGAAAGAGAACCBG GGCCAAGGAAGAAAGGACGGAACCGGGAGGAGAAGGCCAAAAA A A A A C C A A A A G G A GAGGGGGGGGAAAAAAGAAGGGGAACAAA
 GGGAAAACCCAACCGGAAGGTAGGCCAAAAAACAGGGGAAAA AACCGGGGAAAACAGGAAAAAACCGGACAAAAAGGAAGGGGG AAGAGGGGGAAACCCCAGCCAGAAAAGGAAGGGGAGCCGGGG A G GACCAACAGGAGAAAACAAAAAGGGACCACAGGGAAGAAA G G G G C C G G G G A A G G G G G G C C G G G G G G A A C C G G G G A G A G G A G A G G A A A G G G G G G G G G C A A A C A A A A G GAG GAAAA A GA G G G G G A A G G G A A GCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGGG $A C G G A G A A G G A A C C A G A A A G A A C C C C G A G G A A A G C C C C A A C A$

GAAAGGCAGGAAACAGGGGGGGAGAGAAGGGGAAAACCAGBA G GAA A GAGAGGGAAAAAACAAAGGGGGAAGGAAGAGAAAAGA AA $A$ A A $A$ A $\operatorname{A} A G G A G A G G G G G G G G G A A G A A G G A A G G A A A A G G A A$ A A G GAAAAAAAAAGACAGGGGGAAAAAAAAAAAGAGAAAAGG G GAGAGAGAAAGGGGGGGAGGGAGGGAAGAGGAAAAGGAGAA G G G G G G G G G G A A C A G A A A A C A G G A A G GAA GACA A A A CAAC G G G GCCAGAGGAAGGGCCAAGGGGAAGGAACCGGGGGGAAAAGA C CAGAAGAAAGAGGAGGGGAGAAAGGCAAAAAAAGGAGAAGBG A G G G A A A A GACCCCACGGCCCAACGGGGAACCAAGGGGTTGG1 G GAGGGAGAAAGGAAAAAGACAGGGAAGTTGAGGGAGGGGGG A GAGAGAAGGCAAGACAAGAGGGGCCGGAGGGAAAACAAAGA G G G G A A G G A A A A A A G G G G G G G G C C A A G G C C A A G G G G G GAAA A C CAA G GCCCCCCAACCGAAACCAAAAAGAAAAGAGAGGAGAA A A G G G GCC G G G GAACCAGAGAA GAGGAAAAGGGGGGCCGAAA $C \subset G A G A A G G A C C A C A G A A G G A A G G G A C C G A A C C C G G A A A A G G$ GAGGAGGGAGGAGGCCGGCAAAGGGGAAAAAACAAGG
GACGGCCAGAACGAGCGAAGGGGGCAACCAGAGAGAAAAAG
 $G G C C G G A A A A A A A A G G A G A A G G G G G A G G G G A A G G A C A A G A A A$
 G G G GAGGGAGAGAACAAGGGAAGGAAGGGGCCAGGGCAGAAC ACAAAACCGGGGTTGGAAAGAAGAGGAAAAGGGGACGGACBA G GAGAAAGGAGGAAAAAGAAAAGGGGAAAAGGGGCCAAAA GA G G G A G A G A G G A G G G A G G G G G A G G G G G A G G G G A G G G G G G A G A $G$ GAAGGGGAGGAGGGAGGGAAAGGAGGGAAAGGAAGGAAGGGA A GAGAGAAGAAGAAAAAGGAAGACAGGGCCAGCAGGGAAAAG ACAGAGGACAAAAAAAAAGAGGGGCAGACCCCAGGGAGAGGG G GAA $A \operatorname{G} A A C A C C G G G G G G G G A A C C C C G A A G A G G G A G G A A A A G$ A G A A G GAGAGGGGAGGACGAGAGGAGACGAAGGAAAAAAGAA $G G A A A G G G G A A A A G G A A A G G G A G A G G G A A C G G G G A A A G A G A A$ $G G C C A A A A G G A G G G G A G G A G G A G A A A C A A A G A C A A A G G A G A A$ GAACAGGGAGGAGAGAAGAAAAAAACAAGGGGGGAAAGGGGG G GAAAAAAAAAAGGAACCAGAAGGCAAGACAGGACCAAGGCC A A A A $\mathcal{A} G C \subset A A G G G G G G G G A A G G G G G G A A A A G G G G A A G A A A A A$ A A A G G G G G A A $\mathcal{A} G G G A A G G G G C A G G A C A A G G A A A A G G C C G G A G$ C C G A G A G A G G G GAACAAAGAGCAGGAGAGAAGAAA GGGGGGG C CA $A \operatorname{GGG} \operatorname{G} A A C C A A G G G G A A A G G A G G A G A A A G G G A G G G B A C A$ A A G GAA A G G G GCGGGGGAGAAGGGGAAGGGAGAAGGGAAAAA G G G G G G A G A A A A G G G G A G G A A G G A GAGAGAGA GAAA $A \operatorname{A} A G G A A A$ A A G G G G G G G G A G A A C C G G G GAAAA A G A A G GA GAA A G C C A C G G GGAAGGTTAAAAGAATAACAAGGAAACCAAGAGAAGAAAAGAG A A G GAGCAGGCCGGGGGGAAGGGGGGACGAAAGAACAACCGG A A A GAAAGGAAAGGGGAAGACACAAGGGAGAAAACCCC GAAA AC G A A A G G A A G G G G G GCCAACCGGGGCAGGGGGACAGAAACA A A G G G G G G A A A A G G A A G G G A A G G G G GCCAAGGATAACC G GAA A A A A A G G G GAA $A \operatorname{G} G A G G A A C C A G A A A G A C G A A A A A A A G B A A G G$ G G GAA $\operatorname{A} A C A G A A A G G G A G A G C A A A G G C C C C A G G A G G A A G A A G$ AACAACAAGGGGGGGGAGTTAAGGGGGAATGGCCGACAAGGA AAAAGGGACCAAGGAAAAAGGGACAAGAAGGGAAAGGGGAGG GAAGGGGGGGAAAAGGAAAAGAGGAGAAAAGGATACAAAGAG A A GAAA A $A \operatorname{AGGGGAA} \operatorname{A} G A G A A C C A G G G G G A A A G G G C C G A A A A A$ $G G C A G G A G G A C C A A G G G G A A G G A A A G G G G A G A A A C C T T A A G A$ $G G C C A A A A G G G A C C G G G A A G G A A G A A G G A A A C A A A A G G A A A A$ GGCCAAGGGGAAAGAAGGGCGAGAAAGGAAGGAAAAAGGGGA G GCCCAAGGAAAGAAGGGGGCAAAGGAACCAGAGGGCAGAAG $A G G G A G C A G G G A G G A A A G G A A A G G G G G A G A A G A G G G G G A A G A$ G GAGGAGGGGGGGAAAGGCAAAGGAAAGAAAGGAACGACAAG
 $A G A G A A C C A G G G A G A G A G A G G G A G G G G A G G G A G G G G C C A A A A$

G G G G A C G G G G A A G G G G A GACGGAAAAGAGGGGGGAAAGACAC G GAAGGAAGGCCAAGGAAACAAACGGGGAAGAAGAAAACAAA C C A A C CA A A GGGAAGACAGACAGGGGAACCAAAAAAGGGAAA G G G GAA A A A A A GCC G GAGCCGGGAAAGGGGACAAGGCC G GAA G G G G G GCAA $\operatorname{CA} A \mathrm{~A} A \mathrm{~A} A A A A A A A G G G A G G A A G A C A A A G A G G A G G$ G G G G G G A A G G A A C C G G A A A A G G C C G G A G C A G A A G G G G G G G G G G GAGAGGGGAAAGGAAGGAAGGAAAAAAGAGGAGGAGAAAAG GAGGGACAAGCCGGAAAACAGAGGTTGGAAGAGGGGAAAGTT CACCCAGAGGAAGGAAAAGGAAAAGGAAGGCCAACCCCAAGG G GAGAAGGAGGGGAAGCCAGAGAGAAAAGGGAAGAAGAGAAA GAAGGAGGGGAAAAAAAAGGGGAAGGCCGGCCAGGGAGAGAG A A G G G G G G A G G A T T A C A A A $\mathcal{A} G G A G A G G G G G G G G G G G G A A A A C$ GAGGGGAGAGGGAAAAAAAGGGGAGGGGCCCCAGGGAACAAC G GAAAGCAAACCAAAGAAGGGAGGAAAACGAGCCAGAGAAGG $C \subset C A C C A A G G A A A A G G A A A G C C A G G G A G A G C C A A A G G G A G G A$ A A GAGAGGCCGGGGGGGAAGCCGAAAGGAGCCAAGGAGAGAA G G G G G A A A G G G G A A A A G GAAAAA A GCC G G GAGGAAA A A A G G G G A A A A G G G G GAACGGGGGGAAGGAGAAAGCCAAAAGGGAAAGG ACGAGGAGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAAGAAA
 AAGGAAGGAAGGAAAATTGGGGAAGGGGGGGAAGAAAAGAAG A A A C A A G A G G G GACGGGGGGAAAAGGGGCCAGAGCCABAACC C C A A A A G G G G A A G G A G A G G G G G G A G G G G G A G A G G G A G A A G G G A G A A A G A A A A A A A ATTCCAGAAAAGGCCAGACAAAAAAAAGBG G G G G A A G G A G G G G G G G G C G G G G A A A A G G A A A A G GAAC A A A A A A G G G GACAAAAAAAGGAAAAGGAGAGAGAAAGAGGACCAAGG AAACGACCAGGGAACCAGGGAGGGAGCCGGGGAGGGGGGGAG G G G G C C G A G G G GAA $A \operatorname{GGGAGGACGACAAGGGAAGBAAAAGGGG}$ GAAAGGCCAAAGGGACGGGGAACCGAAGGATTAAAACAGGAA
 GAAGGAGAAAGGAAGGGGGGAATTAAAGAGAAGACAGGAAAA GAGGGGAAAGAAGAGGGAAAGAAAGAGAAACCAAAAGGGGCC G GAGCCGGACAAGAAAGAAGCCCCAAGGGGAAAAGGAGAGAG GACAAAAGACGGGGAAAAGAAGAAGGAAAAAAGGCAGGCCBG A A G G G G A A G G G G G A G G C A G A C C G G G G G G G GAGGGACAAAAC C AC G A A GAGGAGAGGCCAGGGAGAAGGAAAAAAAAGAAAAGCC GAAGTAAAGGGGGGGGACGGGAGGGGAAAGAAAGGACAAAAA AAGGGGCCGGAAAAAAACGAGGCAACCCACGGACAGGGGGAA A A G G G G G G A A G A A C G G G G A A A A G G G GAA A A A A G G C A A GA G A A G G G G G G G G A G A A A A G G A GAAAAGGAGGACACAAACCAACAAA C C A A A G GAGAGGGGGGGGAAAAGAGGAAAAGGACCCGGAAAA GAGGGGCCAAGGAAGGGGACAGAAGGAACAAGAAGGCAGGGG A GAAGAGGCCGAAAGGGGGCTTGGAAAAAAAAAAGGGGGGGA G G G G G A G G G G G G T T A A G G G G G G G G A A A C A A A G A A A A G G A A G G A A A A A A G G G G A G G A A A A A G G C G T T G A A A G A A G G A A G G G A A G G GAATACAACCAAGGGGAGGGGGGAGGTAGGGACCAAAAGGGG A A C C A G G G A A CACA GAA GAGGACCAAAAAAAAAAAA GAAAA G A A GAACAAAAGAAACCAAAGAAGAAACCGAGGGGAAGGAAAA $C \subset G A C C A A C C G A A G A G A A G A G A G A G A G G G A G G G G G A A G A A C C$ GAGACCAAAGAAAAGGAGACGGCCGGGGGGGAGAAAAGAAGG A GAGAAGGGAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGGG AAACGAGAGGAAGGGGAAAAAAAAAAAAGGAGAGGAA GAAAA A A G G G A A G A A G GAA $A \operatorname{G} G A A A A A A A A G A G G C A A G C A C C C C B G A A$ GGAAAGGGAAAAAAAAGGCCGGAAGGAAAAAAGGAAAAGGAA AA $A \operatorname{GGGAAAAAGGAAAAAAGGAAGGGGGGAAAAGAAGGBAAAA}$ G GAGCCAAGGCCACGGGAGGGGCCAAAACCAAGAAGGGGGGG GACCAACGGAGGGGGGAAAACCGAAAAAAACCGGAAGGGGCC
 GAAGGGACGGAAGGAGAAGGAGAAAGGGCCGGAGACAAGGGG

G G G G A A A A G GCCAC G G G G G G A A G G G G G G G G GA G G A A G G G G G A
 AAACGGAAGGGGGGTTAAAAAAGGGGCCAGGGGGGAACCCGG A A GAAA A G A A G GCC G G A A GAGGAGGGGGGGAGGGAGCC G GAA AAAAGGAACCGGACGAAGGAGAGGCCGAAAAAAAGGAGCCAA CACCGGAAGGAGGAAACACCGAAGAAAGAAGGGGGAAAAAAA
 GAGAGGGGGGAAAAGGAAGCAACGAGGGAAGAAAAAAGAGGG CAA $A$ A A $\operatorname{A} A G G A A G G G G A A G G G G G G A A A A G A G A A G G A G A T A A C$ A A G G GAAAAGGAAGAAGGGAGGACAAACAAAACCAAGGGGGG C C A A A A G G G GAGAGAAGGGGAGCCAGAAAGGGAAAGAAAAAA C C A A A A G GCCAGCAGAGGAAGAACAAAAGGCCCAGGGGAAAA A A A G A A A T A G A ACACACAACGGGAGGAACCGGGGGGCCAABAA C C A A A A G G A A G A A A A A A A A A G G A A GCGGAGCCGACCAAAAA G G GAAAGAGAGAAGGGGAAAAAACCGAAGAACCGGAAACAAAA A GAACAAGAAAGGGGAGGAAGGAAAAAGAGGAGAAGC
CAAGGAAAAAAAAGGGAGGAGAAGGGGAAAGAGAGAAAGAG A G GAGAGGCCCCAAAAAAAAAGAGAGAGAAAGAGTTAAAAAA C CAGGGGGAAACAAGGAACCAGGGAGGACGGGGGAAAAAAAG AAAAAGCCGGAGGGGGAAGGAAAGGACAGAACAAAAAAGAAG AACCGGAGAAGGAAAAAAGGAAAAGGAAAGAAGGAAGAAAAA A A A A A A A GCA G GAAAAGGAAAGGGAGAAGAAAAAAGGAGGGG CAGGGGAGGACCGAAAAGTAAAGGGAGGGGGGAAACAAAAAG GAGGGAGAGAACCCAAAAAAGGGGAAAAGGAAAACCCCAGAA GAAAAGAGAAGAAACCAAGGAAGGAATAAAGGAAGGCCGGCC A A G G G GAGAAAAGGAACACAGAGAAAGGAAAGGGCAAAAAAA G GCCGGAAGGAAGAGGGGGGGGAGAAGGAAGCGAGGAAAACG A GAAAAAGGGAAGGAAAAACAGACGGCCGACCAAGGGAGAGA $A G C C A A A G G A G A A G G A A A G G G G G A G G C C A A A A G A G G G A G A A G$ A GACAAGGAAAAAAGGCCGACCGGAAGGAAAAGAAAGGGGAA A A G G G G A A A A A A A $\mathcal{A} G G A G G A G G G G A A A A A G G G G A G A A A A G G G$ GACACCAATTAACCCGATACAGAGGGCCGAGAAAGGAAGGGG
 G GCCAAAAAACCGGGGAGGAGGAGCCGAGGGGGGCCGAAAGG A GAGGAAGCAAGAAAGAGGGCCAGGAAGAAAGACBAAAGAAG A GACCCAAGGAAAGGGGAAAGCAAAACATTAAGGAGAAAAAG A A GAGAGGAAGGGGAAGGGGGGAAAAGGGGAAAAAAGGAGAG ACGGGGCCGGAAGGAAAAGGAGCAAGAGGGAAGGGGAAAAAG
 G G G G A A A G GA G GAGGACCAACCGGGGAAGAGAAAGACCAAGA A A G G C A A G G GCAG G G G CATTAAAAAAAGGCACCAAAAGGAGAA GAGGGACCGAAAAAGGCCGGAGGGAAGAAAGGGACAGGAAAC AACCAAAAAAAAAACCGGAAAAAGGAGAGGAAGGAAGGGGGG A A G G G GAA A G A A G A A A G G G G G G A A G G G G G A G A A A A G G G A A G A ACAGGGAAGAGGGGGAACGGAAGAAAAAAAGACCAAAAAAGG G GAGGAAC GACAAGAGGAGAGAAGCAGAGGGGTTAGACAAGG CCGAAGGAAGAAGGAATTGGGGCAGAAGGACAAGGAAAGGGG GAAGGACCGAAAGGAAAGCCACGAGAGAAGAAAGGGGGAAAA A G GAAAAAAAAAGGCAAGCCGAAAAAAAGGGGAAAAGAAAAG G G G G A A A G A C G G G G G G G GCAGAGAAAAAAACCAGAAAGGGGG AAAGAGAGGGAAAAAAAAGGGGAAGAAAAAGGAAGGAGAAAA A GCCATAGAGGGAAACGAAGAGAAAGAAAAGAGGGGCCAGAAA A A A G A A A A A G G G A A G A G GAGGGGAAAAGCACCCCAAACCCCC C C G GAAAAAGAAGGCCAAAGCAGGCCGGGGTTGGAAAAGGCC G G G GAAAGAAGGCAAAAGGGGACCAAACGGCCGGCGGGAGAA G G G G A A A A A A G G GAGGGAGGAGCAGGAGGAAGGAGGGGAAAA C CAA $A \operatorname{GAAAAAGGAAAGCCAAGAAAGGAAGGAAAAAAAAGGAA}$ G G G G A GAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAAAACC $G G G G G G A A G G A A A G C A A G C A A A A A G G G G G G G G A A C C A A A A G G$

A A G GAAAAGGAAGGGGAACCGGCCGGGGGGGGAAGGAAACAG G G A A A A C C A GA GAAAAAGAAGGGGAAGAAGAGGAAACAAGEG G G A A A A A G A A C C G G G G G GCCGGGGGGCCAAAACCAAGAAAGA GAGAACCCAGAAAGAGACCCGGCACCCAACAAGGAGGGGAAA G GAACCAAAAGGGGAAAAGGGGCCAGACGGGGGGACAGAAGG A A G G G GAGGGGGAAAACCATAGGGCCCAGAAGGGAGAAAAGG G G A A A G G A C GCACCAAGGAAGGGGGGACAGCCAGGGGGGGGG A G G GAGGAAGGGGGGGAAAAAGGAGGCACAGGGGAAAGAAAG
 GAAAGGCCAAGGGGAAGGAAAGGGGGGGAAAACCAGAAGGGG G G GAGGACCCGGGGCAGGAAAAGGCCAAAAAAGGGGAAGGAG A GAA A G G GAGGAAAAAGGACCCGACCACGGGGAGAGAGAAAG
 GAAGCAGGGGAGAAGGGGGGAACCAGCAGGGGAAAGGGGGGG G GAACCGGGAAAAAAAGGGGAAGAGGGAGGAGAAAAGGAGGG AA $A \operatorname{GGGGACCA} A G G A C A A G G G A A A C A A A A G A A G G A A G A A G G G$
 GAAGGGAGGGGGGAGGAAGGCAAGCCAGAAGGGAGGGGAAGG $G G A G A A G A A G C C A A A A A G A G A G G A G G A G A A G G G G G G A A C A G A$
 C C A A C CAAAACCGGCCAGATGGGGAAGGAGAAAAAGAGAGAA
 A G G G G A G A GAA A A A A G G G G GAACCACGGGGAAGGAAAAGGAA GAAGAAAGAGAAAAGAAAAAAAGGGGGAAAAGAACCGGGGAAA G G G GAGCCAGGGGGGGGGGAAGAAGGAAAAAAAGAATAAGCC G G G G G G A A A GACAGAAGAAGATAAAGAAGGAAAAAAGACCGG G GCCGGGGAGGGGGAAAACCGAAGGGAGAACCAGCAGAAAGG A G G A G A A GAGGACCAAAAAGCCGAGAAAAAAAAAAAAAAGGA A G GACCAAAAGGGGGGAAAACCAACAAAACGAGAGGAAAABA GAGGAAGGAAGGGGAAAAGGAAGGGGAGAGAGAGAGGGAAAC CCGGAAAAAAGGGGAAAAAAGGAAAAACAAGGGGGAAA GAAA GACACAAACAAAAAAAAGGAAGAAGAAAGGAAGGAAGGAGAG G G GAAGAAAAGAAGGGAAACCCAAGAGGGGAAGGGAAGAAAG GGCCAAAAGGAGCCAAGAAAAAGGAAAGAAAAAAAGAACAGA G GAGGGAAGGGGAAAAAGGAAGAAGGGAGAAAGGCCAGGGGG G GAAGAGGAACCAACCGGAAAAGGAGAAAAAGCCAAAGAAAA G GAGAAAACAGGAAAAGGGGAAAGAAAAAGAGAGGGCCACAA G GAACAGGGGAAGGAAAGGAGAGAGGGAAGAAGGGGAAAAAB G G A A G A A A A A G G G G A A A G G G G A G A A C A G A A G G G G G G G A G G G G
 $G G A G A G A A G G G G G G A A A A G G A A A G G G A G A G C C G G A C C G A A A G$ A A G A G G G A G G A A G G A A A A A A G G A A A A A C G GACAA $A$ A G G G A G G G ATAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGA C C G G G G G G A A A A A A A A G GAAACAAGGGGGAAAA G G GACAGCC GATAAGAAAGAAAAGGAAAACGGAGAAGGGAAAAAACCGGGG A ACCACAACAAGTTAAACGACCAAGGAGAGAAGGGCAAAA GA A G A A C G A A G G C C A A G G G G G G A G A G A G A A G GAA A A G GAA G G G G GAAGCCGGGGGAAGAGAGACGAAAGGCAAGGACCGGAAAAGG AAAAGGGGGAAAGGCACCAGAAGGCCAAAACCAAGGGGGGGG G G G G G G A A A A C C C G C C A A A G G G G G GAGAGAGAAAGAG GAAAA G G G GAACCAAGAGAAGACATAGAACACCAAGAGGTTAAATGA GAGAGAGAAAAAAAGGGGAAGGAAAAGGGGCAGAGBAAAGAA A A A A A G G G GAAACCGGCCAAAAAAGGCCACGGGGGGAAAA G G AAGAAGAGCGAAAGTTGAGGAAAAAAAAGGCCCCCCGACAGG A GAA A A A G A A C GAA $A \operatorname{GGGGGAATACCCCCAAAGCCCCAAGGAA}$ GGCCAGACAGAGAAAGAAACGGAAGGAACCGGGGAAGGAAAC A GTAAAAGAGAAAGAAAAGGGAGAAAAGCAGGGGCAGGAAAAA A G A A G G A A G G A A G G G G G G G A G G G A G GA A A A G G A A A G C C A G A A $A A G G A A A A C C G G A A G A G G C C G G G G A T A G C C G G G G G C G A A A G A$

C CAACCAAAAGACAAGGGAAAAAGAGGGGAAAAAAAGGGAAA T T A A G A G G A G G A A $\mathcal{A} A A G G G G G G A A G G G G G G A A A A A A G A G G B A$ A G A A A G A G A A G G G G G G A A G G G G G G G C A G A A G G G G G A G A A A G G A GAGAA $A$ A $\operatorname{A} A \operatorname{AGAAAAAAAAACGGGAGAAAGGAAAGGAAGAGA}$ $G G T T G G A A G G A A A C C G G G C C C A G A A G G G G G G G A A G G G A G A A A$ G A G G G G G G G G G A G A A $\mathcal{G} G G G G G G G A A A A A A G G G A G G G G G A A A A$ G G G G A A G G A G A A G GA G G G A A A A GAGGAAAAACAA G G CACGGGG AGGAGGCAGGGGGAAGAACCGAAGAGGACCAAAAAAAAAAAA A A A A A A G G T T A A C A GAGAGGGAAAAGAAGGGGGAA GAAT TAA AA $A$ A $\mathcal{A} A A G G G G G G G G G A C G G G G A G A A G A A G A A G G G G G G G G A A$ AAAACCAAGGGGAAGACCCAAGAGAGAAAACAGAAGGGAGCC A A C C A A G A C C A A A A A A A GAACCGGAGAAAAGGCACCGGCAAA CAAA A $A \operatorname{G} G \mathrm{G}$ GAAGGAAAGGGGGGGGAAAAAGAGAAAAAAAACC A A G GA GAGAACCGAGGAAAGAAACAGAAAAGGAAAACC GAAA A GAGAAGGAGGGAGGGCAGGGGAAAGGGCAAGAAAAGGAAGA AAGGGGCCAAGGGAAGGGCCCCCCAAAAAAAAAAGGG
GCAGAGGGGCCCAAGAGCCGGGAGGAACCAACCCCCACCGG AAGGAAAAGAAAAAGACCGGGGAGAAAAAAGGGGAAAAGAAG G G G A A T G A A A A G G A G G A A A A A A G G G G G G G G A A A A GACAAAAA G G G G G G A A A A $\mathcal{A} G G G G G A G G G G G A A A A A A A A G G A G A A G A G A A A$ CAAGGGAAAAGGAAAAAATTGGGGCCAAGAAGCCAACCACAG A ACCAAAAAAAAAACCGAGAAGGAAGGGGAGGCAAGAAAAGG $G G A A A A A A A G A A A G G G A A G G G G G A G G A A C C G G A A A T G G A G A G$ A A GAGGGAAAAGGGCCAAAAGGGGGGAAAAGGAAGGAAAGAA AA A GAAGGCCAAAGAGGGGAAAAACCAAAAGAGGAACCCCGG G GAGAAAACCAGCGGGAGAAAAAAAAAACCAAGGGGAGACAG A G GAAAAGAAAGCACAGAAGGAGGAAAAGGGGGGGGAAAGCC
 C CAA $A \operatorname{GAAAAAAACCAAAAGGGGAAGGGGGGAAAAAAGGCAAA}$ C CAAGGAACCAAGGGGAAAAAAAAGGGGGGGGAAAAGGAAGAG GGCCAACCGGAAAAGGTTGGAAAAGGAAAACCCGAAGAAAAA A A G GAGGGAAAAGGGGGGCAGAGGGGGGGAGGAAGGGGGAGG G G G GAAAACCAAAGGGAAAAGGGGGGGGGGAAAAGAAAACAA G G A C T T C G G G A G G G A A A A G GAGAAGGGGAAGGAAA GAAAAAA G GAC $\mathrm{C} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A A A A A C C G A G G A G A G G A G G G G A A A G A G A A G G$ A A G G G A $\mathcal{A} A G G G G G G C A G G C A A G A A G G G G C C G G G G A A G G A G A G$ AAGAAGCCAGGGGAGCAAAAAAAAGAAACAGGAAGGGAAAAA T TAA A G G G GAACAAAGGGGGGGGGAAAAGGAGGGAACAAAAA G G A A G A A G A GCCAA G G A A A A A A C C CACCGAGAGGAAGGCCTT G G A A A A A ACCAACCAGAGGGAAAAGGGAAGGGGAAACAAAAA A A G G G G G G G G A A A GAA A G G A G G G G G G G GAA A GAAACAGGACAA G GAA $A \operatorname{GAAAAAAAAAAGAGGGAAAGAAAAAAGGGGGAGGAAAA}$ G GAGAAAAACAGGAAATTGGAGAAGAGGAGGGAAAAGGGGAG CA $A \operatorname{GA} A A G G G A G G G A C A A A G G G A G G G A A G G C A A A G G C C A G A G$ A A A A A A A A $\mathcal{A} G G G G G G G G G G C G G G A A G G G G A C C G C C C A A G G A A$ G GAACCAAAAAGAGGGCCGAAAGGACCAAAGAGAGAAAGGAG G G G G A A G G G G A A G G G G C C G A G G A A GAGAGGAAA A G G GA GA T T GAGAGAAAGGAAGAGAAAAGAAAGAGGAAGAGAATTCAGAGG G GAGAAAAAAAACCCAAGAAAGAAGAAACCACAAACAGGAGA G GAA $A \operatorname{GAAAAAAGAGGGAAGGACAGCCGAGAAAAAAAGGGGGG}$ G G G G G GCCAAGGAACCGGGAAGGAAAAAACAAAGACGGGGGG GAAACCAAGACCGGGGGGGGAAGGGGAAAGAGCGTAAACAGG GAGGGGGAAAAAAAAAGGAACCAAGGAATTGGGGAAAAGGCC A A G GAAAAAAAAAACCAAAAGGGGGGGGAAGGAAGGCCAAAA G G G G G GAA A GCCAAGGAAGGGGAAGGGGAAAAGGGGAAAAAA $G G A A G G A A G G A A A A G G A A A A A A A A A A A A A A A A A A A A G G G G G G$ G G G G G G A A C C A A A A A A A A GAGGGATTAAAAGGAGAAAAAAAA $A A C C A G G G G G A G A G G G G A G G G G A G A G G G C A G G A A A A C C G G G G$ ACTAAAGAAAGAGAGGAAGGAAAACAGGCAAGGAAAAAAACC

CAAGAAGAACAGGGAAGGCCACGGGGGAAGGGAAGGGGAAAA G G G A A A A A G A A C G A G GAAAGGGAGGAGGCCCCAGAAGGCAAG AAAAAAGAGGGAGGGGCACCGGAAGGAACCAGGGAAGAGGGG A A A A G G GAGAAGGCACGGGGAACCAAAAAACCCCGGAACATA G G G GAAAGAAGAAGGAAGAGGGTTAAAAGGAGAGGGAAAGAG $G G C C A A A A G G A A A A G G G G G G A A G G C C G G G G G G A A G G B A G A A A$ A A G G G G G G A A G G A A G A A A C C G G A C A A GAA $A \operatorname{AGGGGGGGGTTAA}$ CCGGAAAACCGGAAGGGGCAGGGGAAGGCCAAAGGAGGAAAA A A G A A A A A A T A G G GAGAAGGCCGGAAAGGAGGAGGAACABAA GAAAGGGGACGGAAAGAGGGGGCCAAAAGGAAGAGGGGAAGA G GAA $A \operatorname{GA} \mathrm{~A} A C A G C A G G G A G A G G A G G G A A G G A A C A G A G G A A C A$ C C GAGGAAAAGGAAAAGGAAGGAACCGGAAGAGAAAGACA GA G GAGAAAAAACCAACCGGCCGAGGAAGGAGGAAGAAAAGGAG
 G G A G A G G A G G A G A G G G G A G G G A G A A G G G G G A A A G G G G G C C C C $C \subset G G G G G A A G G G A A A A G G G G G A G G G A A G G G G A A A G G G G G A A G$ G G G G A A G G G G A G G C G G G G A A G G G G G G G G C C G G A G G G G G A G A $C$ G GCCGGAAGGGGCCGGATGAGAACAAAAGGAAAAGGAGACGG A GAAAGGGGGCCAAGGAAGGAAGGAAAGGAGGAAAAAAAGAC A A A GA $A$ GACAGGAAGAGGAAAGAAGACAGAAGGGGAACGAGAA G GAGGCGGAAACCAGGGGAGCCAACCGGAGAGGGGGGGGGAG
 $G G C C A G A A G G G G A A A A A G A A G G A G A A A C G A G G A A A A A A G G A A$ CCAGAGCCCCAACCAAAAAAGGGGAACCGGGGGGGGGGAAAA A A A A A A A A A A A A A A A A G G A A A A A G CCGGAAGAA GA GAGAACA A A GAAA A GAACCGGAAAAAAGGAAAAGGAAAACCCCGAGAAG G G GCAGAAAAGGCCGAGAGGGGGAGAAGGAAAACGGCCAAGA C C G G G G G G G G A A A A C A A A A C A G G G A A G G A A A G A A G G G G G G G G AACCAACCGGAGAAGAAGGAAAAAGGAAGGAAAAGGGGCCGG C C C C A A G G A GAGGGGGGAGGGAGGAAAGGAACAACCAGAAGA G G A A A A A A A A G G A A C C G G T T A A A A G G G G G G G G A A A A G G A A A A G GAA A G G G G G G GAACCAAGGAAGGAAAAGGAAAAGGGGGGGG AACCAAAAAAGGAAAAAAAAGGGGGGGGAAAAGGGGAAAAAA $G G C C A A G G C C G G A A A A G G A A G G C C C C G G G G G G G G G A A A A A G A$ G GAA A GAACCAAAAGGAAGGAAGGCCGGGGGGAAGGCCBAAA A A G G G GCCCCAA $C$ C $\mathcal{C} A A A A A A A G G G G G G G G A A G G G G G G A A G G A A$ G G G G A A A A G G G G G G G G A A A A G G G G G GAAAAGGGGCAAAAA G $\mathcal{A}$ AA $A G A A G G A A G G A A G G A A A A A A G G A A G G A A A A G G G G A A G A A A$
 A A T TCCGGGGCCGGGGAAAAGGAAGGAATXAAGGGAAAGGGG A A G G G G G G A A G G G G G G G G C C G G A A A A A A A A C C G GAAAA A G A A
 A A A A G GAAAAAACCGGAAGGAAAAGGAAGGGGGGAAAAAAAA $G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G G A A$ G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G G A A G G A A A A G G A A G G G G G G A A C C C C G G G G A A A A G GAA A GCC C C G G G G A A G GAAAAGGAAGGCCAAAAGGAAGGAAGGAAAAGGAAAAGGGG $C \subset C \subset A A G G C C G G A A G G G G G G G G G G A A C C G G C C A A A A G G C C G G$ AA $\operatorname{A} G A A G G G G A A C C G G A A A A A A G G A A A A A A G G A A C C A A G G C C$ C C G GAACCAAAAAAGGAAGGAAAAAAGGAAGGGGAAGGAGAA G GAACAGGAAGGCCGGAAAAGGGGGAAGGGAAGAAGGACAAC C C G GA $A$ A $\operatorname{G} G \mathrm{G} G A C C C C G A G A G G A G A G G A G G A A G A C C G G C C G G$ C C G G A T G A A A G A A A A C G G G A A A GACAGGAAGGGGCCATAGAG G GAGGAGGGGAGGGAAAGCCGAGGCCAGGAGAAATTAAAAAA G GAA $A$ G A A A GAGGAAAAAGAAAAGGAGAGAGAAGAACCCCCC AAAACCGAAAGAGGAAGAGGAAGAAAAAGGGACCAGGGAAAA A GAGAAAAAAGAAAAAAAGGAGACCCAAGGGGAGGGAAAAAA G GA GAA A G G GAACC G GAAAACAAGGAGGCCAAGGAAGAAAAA $A C G A G A A G G G G G G A G G A G C A G A G G G A G A C A G G A A G G A A G A G A$

AAGGAAAAGGAACCAAAAGGAAAGCAAAAAAAGGAAAGCCGG G G A A A GACAAAGAAAAAGAAAACAAGGGGGGGCCAGACAGBA A G GAGAGACAGGGAGAAAAAAAGGAAGAGGGACCACGGGGGG AAATGAAGCGCCGGGGAAAACCGGAGGAAAGGGGGGGGGGAG A GCCAGAGAACAAAGAGAGGGACCGGAAAAAAAAGGGGGGCA G G G G G GAA $A \operatorname{GA} A G G G G C C G G A A A A C C G G A A A A A A T T A A A A C C$ AAAACCCCAAGGAAGGAAAAAAAAAGGGGGAAGGAGGGAGAG $A C G A G G A G A G G G A G A C C A G G A A C A C C G A G A A G A G G A A A G C G G$ A GAGCCCAGGAAGGGGAAAAACGGAAAAAAAAAAGGGAAACC A GAGAGAGAAGGAAGGGGGGGAGAGGGAGGAGAAAACAAAAA A GAGGGAGCAAAGAGGGAAGAGGAAGAGGAGGAAGGGAAGAA G G A A A A A G GAAA A G GAGGGGAAGGGGACGGAGAAAAAAAAAA A GAGGAAAGAACGGGGAAGAAGAGAACCAAAAGGGGGGATGG G GAACCGAAAAACAAGGGGGAAAAGGAAGGCAAGGAAAGGBA A GAAGGAGACGAGGGGAAAATTGGGAGGGAAAAGGACAGGCA A AAAGAGGAAAGGGAGAACCAACAAAAAGGCCGAGGC
C GAGGGGAAGAAACCGGAGGGGGGGAAAAAGAAAAAAAAGG G GAGGACCGGAAGGAGAGAGGGAAGGAAGGAACCGAAAGGAA G GAAGGGGAAGGAAAATTGAAAAGAGGAAGGAAGGAAAAGAA CAGAAAAGGGAAGGTTAACCGGAGAGGACCCAAGGAAGAACA A G G G GACAAAAAACAAGGAAAAGAGAAAGGGGAAGGAACAAA $G G C C A G G A A A G G A A G G A A G G A G G A A G A G G G A G G A G A G G A A G G$ G GAGAGGAGCCAACGAAAGGAAAGGGAAGGAAGAAAGGAAGG
 GAACGAAGGGGAAGACAAGAGAGGCCGGAAAAGAAGGAGACC G GAAAAGGAAAAAAAACCGGAAAAGGGAAACCAGAAGAAACA AACCAACCTTGGGGAAAGAAGGAACCAAGGAAGGGAGGAGAAA A G A A A A G G A A C C CAG G G GCCGATAGAAAGGGGCCAAGA G GAA A A GAAA A A A G G A A GAAGAAGGGGGGGCCGGAGGAAGGBCAAC AAAGAAGGGGAAAAAAAAAAAAGGAAAAGGGGCAAAAAAAGAG GAACGGAAGAGAAAAACCGGGGAGAAGGAAGAAAGGGAAAAC A GAA A A A A G G G G G G CAGGGGGAGGAAGAAAAAAGGAAGAGAG GAGAAGGGAACCGGGAAGAGGGAGAAAGCAAAGGAGGAAAAA G G G G G G G G C A G G G G G G A A A A C A G G C C A G G A G G G G A T G G G G A A A A G A A G G G A G G G A A G G G A G G A A G G G G G G A A A A $\mathcal{A} G A G G G A G G G$ G GAGGGGGAGCACCAGGACAGGGAGGGGAAAAAAGAAAGAGG G GAAAA AAGACCAAAAAAGGAAAAAGAGGGAGAGGGGAAAAG GCGGCGGGGGAAGGGAAACATAAAGGAGGGAGGAACAGAGAA G GCAGAACAAAAAAGGAACCGACAGGAAAGGGTTAAAAGGAA A A A A G A GA GAA A GACAGAAAGGGGGGAAAGGACAGGGACACA GAGAAGGAAGAGGGGAGGGGAAAAGGGGGGAGGAGAACAAAG ACAGGGGAGGGGGGAACGCCAAAGGGGGGGCCAAAAGGAAAA $G G C C G A G G G A A A G G A A G G A T A A G G G G A A C C C A T A A G A G G G G G$ $A G G G A A A A A G G G A G G G G A G G G G G G G G A A A A A A A A A G G G G G G G G$ A A GGCCAAAAAAAAAAGGCCAAAACCGGGGGGAAGGGGAACAC
 AAGGGACAAGAAGGGGAAGGAACCAGAACGAGGGAGGGAGAG
 GAGGGGGGAAGGACAAAAAACCCCAAAAAAGGAAAAAAGGGA A G G A G GCC CA G G G G A G G A A A A C C C GAGGGGAAGGGGAACC G G A GCAGAAGAAAAAGGGAAAAAAGGGGAAGGAACCBGAGGGCC $A C A A C C C C C C A A G G A A A A G G A A G G A A A A A A G A A G G B A A G G G G$ G G C C A A G A A G A A A A G G A A C C C C A G G G A A C C G G A G G G G G G A G A $A C G A A C A G G G A A G A C A G G A G A A A A A A A A A G G A G G A T C A G A G G$ A GAGGAAACCGGGGGGCCGGAGAGACAGGGGGAAGGAAAAGG A GAG $A \operatorname{G} \operatorname{GA} A G A G G G G G G A A A G A C A G C C G A G G G G A G C A G A A A A A$
 GAGAGAAAAAGGGGGGGAAGGGGAGAGGAAGGAAAAGGGGGG GAGAGCAGGGAGGAAGGAGGAAAAAAGGGGAGAAAGAGGGGG

AACCAACCGAAAACCGGGAAGGAAGGAGAGGCAAGAAAAGAG GAGGGGAAAAAAAGGACCAAAGAGGGGGCCGAGGGAACAAAC A A GAAACAACGAAAGGGGGGCCAAGGAAGGGGGGACAAGGGG
 C CAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A A G G G G A A G G A A G G A G G G A G A G G A A A C A G A G G$ A A A C G G A A A GAGAGGGCAAGCCGGGGCAGAAAAAGGAAAAAA
 G GAGGGCCTTAGACACGGACAAAAGGGGGGAAGGGGGGAGAG G G G G G A A C A G G GA GAAAGGAAGAAAAGGAGAACAAAAAAGAA AAAGGGAGGGAAAGAAAAAAAGAGAGACCAAAAGGGGAAAGA GAGGAAGGCCAAGGGGGAGGGGAGGGGAAGGGAGGAGGAGAA
 G G G G C C A A G G G G A A G G A A A A A A G G G G GA G G CACC G G GAAAA A G G G C A G G G G G A A G A G A A G A A A C GAGGGGAAAAA A A T G G T T A A A G GAA $A \operatorname{GA} A G G A A G G G G A G A G G G A A A G G G T A G A A A A G A A G G A A$ $C \subset G G G G A A A C G G G G G A G G G G A G A G A G A G A A G G A A A A A A A G G G$
 ACAGAAGGAGGAAAAAAACCAGGGGGACGAGGAGAGAAAAGG A GCCCACCCCAAGAAGGGGGCCCCACAAGGCGAACCAACCAA G G G G A A C C G G A G G A G A A A G GCCACAGAACAGAAA G GAAACAC AAA A TAAGGACCGGGGAAAAAAAGGGGGGAGAACAGAGAACA A GA A A A G G A G GACCGGCCTTGGAAGAAAGGGGAAGGGGAAAG G GCCGAGGGGGGAAAAGGAAAAGGGGAAAAAAAAAACCGGGG CA $\operatorname{G}$ G A A A A A A GGCCCCAACCAAAAAAAAGGGGGGAA G GAA G G G G G G A A G G C C C C A A G G G G G G A A A A G G A A A A G G A A A A G G G G G G A A A A A A G GCCAAGGGGAAGGGGAAGGCCCCAAAACCAAGGCC GGCCGGAACCAAGGAAGGCCGGAAAAAACCAAAAGGGGCCAAA AAGGGGCCGGCCCCCCGGAAAAAAAACCGGAAAACCAAGGCC A A A A A A A A T T G G G G G G G G A A G G G G G G G G G G A A G G A A C C A A A A G G G GAAAACCAAGGGGGGGGGGCCAAAACCAAGGAAAAGGGG G G A A A A G G G G A A G G G G G G A A A A A A G G A A A A A A A A C C G G A A A A AA $A G G G G G G G G G A A G G A A A A C C A A G G A A A A C C A A A A G G G G G G$ $C \subset C \subset C C A A A A G G G G G G G G C C A A G G G G A A C C A A A A A A G G A A G G$
 G G A A G G A A A A G G A A G G A A G G G G G G G G C C G G A A A A G G G G A A G G A A G G G G A A A A G G G G G G A A G GAA A G CCCCCGGAAG A A A A A G G A A G GAA $A \operatorname{AGG} \operatorname{GA} A G G C C G G A A G G A A A A G G A A A A A A G G G G G G G G G G$ AAGGAAGGCCGGGGAAGGCCGGAAAGAAAAAACCGGCAAAAG CAATAAAAAGCCGGGGAAAAAACCGGGGAGAGGAGAAACABA A G A A A ACCAAAACCAGGGGAAACCGAAAAGAAGGAAGGAGAA G G G G A A A A G G G GAA $A \operatorname{A} A G G A G A G G G G A G A A A G G T T G G A G A A G A$ G GCCGGGGAAAAGGAAGGCAGCAAAAGGAACCAAGGAAGGCC ACAACCAGAGAAGAGAAGCAAAAAGGATCCGACCCCGAAGGG A GCCCCAGAAAGGACCAGCAAAGGGAGGGAGGGAGGGAGGAG G GACGGGGGGGGGGGGGGAGGGAAGGAACCAAAAGAAAGGAA G GAGGAAACCAAGAGGCGAGGAGAGACCGAGGCCTTGGAABA $A C G G A A A G G G A G A G G G G A G A G G A A A G A A A A G G C C G G G G A G A A$ A A A A G GAA A GAAAAAGCCAGAGGGAGGGGAGAACACAA G GAAA
 GAGGGGAAGGCCGGAAAGAAGAGGCCAAGGAGACCAGGGGGG GAGGCAGGGGGGGAAGGGACAGAAGAAGAAGGAAAAAAAAAA
 A A C C G A G G A G A G G A G G A A G G A A A A A A A A A G G G G G G G G G G G G G G GGGGACCAAACCGACAAGAAAGAGAAAAAAGGGGGGAAGAAA G G G GCCGAAGGGCCGGACCCAAACAGACGGACGAAAGAGGAG GAAGAGAAGGAAGGACAAGAACGGGGGGAGACAATTGGAAAC A G G G G G G A C C A G G A A G A G A A G GCC G GCCACCCCAGGGGCCCC C C A GCCAAAAGGGCGGGAGGGGGGAAAACAGGGGGAAGAAAA G G GAGGGGAAGAAGAGAAAACCAAAAGGGGGGGAAAGGAGAA

A A G G G G A A GAGAGGGGGGGGGAAGAAAGAGAAAAAGAAAGAG $A G C A G C A G G G C C A A C C A A G G G G T T A A G G A A A A A A G G A A G G G G$ A A G G G A G GACAGACAAAGGGAGGGAGAGCAAAGGGGAAAAAA GGCACCGGAAAAAGAAAAGGAAGAGCGGAAGGAGGAGAAAGA GAAAAAAAGGAAAAAAGAAGGAAAGGAGGGTTCGGGAACAAAA GAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACCGGCC A A A A A A A A A A G G G GAAAAGGAACCAGAACCAGAA G GAA G GTT AAAGAAAGAAGGGAACAGAGGGGGGAAAGAAGAAGAAAAGAA G G G G G G G G A A A C T A A A A A A A A A A A GGCCAAGGAAGGCCAAAA $C \subset A A A A A A T T A A A A A A A A G G A A A A A A G G A A A A C C G G G G G G G G$ G G G G G GAAAAAAGGAAAAGGGGAAGGAAGGGGGGGGAAAAAA
 $G G A A C C C C A A A A A A G G A A G G A A G G A A G G G G A A C C G G G G A A G A$ A A A A G GAACCAACCGGAAAAGGGGAAAACCGGAAAAGGAAAA AA $A G A A G G A A G G G G G G A A A A A A G G G G G G A A A A G G G G G G A A G A$ A GAA A G G G G G G G G GAGCCGGAGGGAGAAGGCAGGAAG
 A A A G ACGGAGGGAGCCGGGACAAGGGGGCCAGGAGAAAAGGG AAAACAGATTGAGAAAGAGGGGGGAGGAGGACAAAAGAGGAA A GACGAGACAGAAACCAAAAGGAACCGAAAAGAAGGGBAGAG AAGGAACGGGAAAGACCAGAAAGAAAGGGGGGAGGAAAAAAA G G G GAGGGACAAAAAGAGGGAAAAAGGGAAGGGGGGGGACAA G GCCAAGGGGGGCCGGAAAACCGAAAGGAGAAGGAAGGAAGG A G G G G GACGAAACCGAGAAACCAAAAAAAACCGGGAAAAAAG GGCAAATTGGAGAGGAAACAAGAAAGGACCAAGGGAAAAGGG C CAAC $\mathrm{C} A \mathrm{~A}$ A GAGGAGAAAGGAAGGAAGGAGAAGGGACCAGAA G GAAAAAAAACCAACCAGAAAAAAAAAGAAGAAAGAAGGGAA AAGGAAGGGGGGAACCAAGGAAGGAGACGAGAAGGAAAAAGG GAAAAAGGAAAAGGGGGAGGAGGGGGGAGAAAGGGGGAAAGA G GAA A G G G GAA A A A G GAGGAGAGAGGAACAAAGGAGGGGGGG G G G G A A A A G G A A G G A A A G G G G G A A A A G GAAAAAAA A A G GAAA A $C \subset A A A G G A G G C A A G G G A A A A G A A A G G A A C C A A A G A G G G A G A A$
 $A A C C G G G G G G C A G G A T G A C G C A A G A A A A A A A A G G A A G B A A G A$ G GAG $\operatorname{G} G C C G G G G G A G G G A G G A G A A G G C C A A G G G G G G G G A C A B$ G G G G G GA G A GAGAAGGAAAAGGAAAAAAACCCAAAGGAAA G G $A$ $G G T T A A G G G A G A G G A G C C G G G A G G A A G G G A G A A A G G A G G G G A$ GAGGACAGGAGGGAGGAAAAAAGGAACCGAGGAACAAAGGAC ACAGAAGGAGAGAAGGAGAGAGAAAGGGAGGGAGAGAAGGAA G G GACCGGAAAAGGAAGGTTAAGGGAAAGACCGGGAAAAA G G G G G G A GAA A GAAGAGAAAGGGGGGGGGGAAAAAAAAAAGAAA G G GAGACCGGCCCAAAGGGAAGGAAGAAAAAAGGGGAGGGAG A A GAGGAGGGGGGAAACAGGGGGGCCGGGGAAAAAAAACCAA AAAAGGCCACGGAAAGTTAAACGGCAAGGGGGAAGAAGCCAA $A G C C G G A A A A G G G G C C A A A A G G A A G G G G A A G G A A G A G G A A A A$ A A A A G GCCAAGAGGAGAGGAAGGGAAAACCAGAGAAAAGAGG $A G T A G A G G G G G G G G A A G G C G A C A A G A A A A A G A G G C C A A A C A T$ GCGGAACCCCACGGAGAGCAGGAAGGGGAAAAGGAGAGCCCC A G G GAAGGAAGGAAGGGGGAGAGAAAGAACAAAAGAAAAAGB CACCGGCAAGGGGGAGAAGGCAAAGAAGGAGGAAGGGAAAAA G GAGAACAGGGGAAAAAACCGGACAGAAAGCCAAGGCCGGAA AACCGGAAAAAAAGAGGGAGGGGAGGAAAGAGGAGACAGGAA AAAAGGGACCCCGGCCAGATGAGGGAGGGACCAGAAAAGCAA GAGGCCGAGGGCGGAGAAGGAAGGGGAAAAAAAGAGAGGGGG AAAAGGAGCCAAAAGGCCGAGGAAAAAAGGGGAAGGTTAACC A A G G G A A G C C T T C C G G C C A A G G G G G G G G G G A A A A G G G G G G A A G G A A A A G G G GCCGGAAAAAAGGGGGGGGAAAAAAGGGAAA G G
 AAAGAAGACCAACAGGAGAAAACCCCAAGGAGAGGAGGAGAG

G G G GACGGAAGGGGAAAAGGAAGGGGGAAACCGAGGAAAACA A A A GA GAAAA A GAGAACCAGGGAGCCAAGGAAGAGAAGCCCG C CAGGGAGCCGGAAAGGAACGGAAGGAAGACCACAAAGGAAA CAAAAAAAGAGGAAAAGGGGAACCGGGGGGAAAAAGAGAACA G G G GAA $\operatorname{G} G \mathrm{G} G A C C C A A G G A A C A A A A A A A A A A A A A C C G G G G G G$ A A G G G GAAAAGGCCGAGGGGTAACAGCCAAAAAAGGGGGAGG A A G G G GAAAA A $A \operatorname{AGGGGCGGAAACAAATTGCGAGAACGAGGAA}$ $G G A C A A A A G A G G G A G G A G G G G G G G C C G G G G A A G G A A C C A A A A$ A GAC GAGACAGGAAAACAAAGAAAGGGGGAGGAATTGGAGAA C CAATTGGAAAAGGAAGGGGAAGAGGAGGAGGAAGGGGAGAG GAAGAAAGGAAACCGGGGAAAAGGAAGAGGAAAGAACCAGAC A A GAGAGGCAAAGGGAAAGGGAGAGGGGCCAAGGGGCAAAAA AAAAGGGGGGGGGGCCAAAAAAAACCGGAAGGAAAAGAAAGG AAAAGGGGAAGGGGAAGGAAGGAACCAAAAAAGGAAGGACAA G G G G G G G GAA $A \operatorname{Ag} \operatorname{GGGGAACCAAAAAAAAGGAAGGAACAAAAA}$ G G G GAA A GAAGGGGAAAAAACCAAGGGGAAGAGGCCAAGGGG A GCGCCGGGCGCACAAACAGCCGGCGGGAGAACCCCAAGAAA C CAAAAGGAACCGGGGAACCGGGGAGGGAGAAGGAAAAAAAA GACCAGGAAACAAAAAAAAAAAGAGGGGACGGGGACCCCCBA A G A G G A T A G G G G A G G G G A A A A G A G C A G G A T C C G G G G C C G G G A GGGAAAAGGGAAGGAAGGAGAAAGGAAAAAGGAAGGGGAGGG A A A A G G G G GAGGGGCAAAAGGGAAAAGAGAAAGGGGGGGGGG G G A A A A A A A G A A C C GAGGGAGGGGGGCCAAAACCGAAAAAAG GAGAAAGAAAAAAAGAGAAGAACCCCAAGGAAAAGAAAAAAA G G A A A G G A A G G GAAAAGGGAGACCCCCCGGACAGCCGAAAGB AAGGGGAAGAAAGAAAAGAGGGGAAGCAAGAGGGAGAAAAGA A G G GAA $A \operatorname{GGG} \mathrm{G} A A C C C A G A A G A A C A G G A G G G G G G G G C A G G G G$ A G G G G GACTTAGGAGGCAGGAAAAGACAAACCGGGGGAGAAA AAAAGGAGAAGGAAAAAGGAAAAAGGCCGAAAAAAAGBAACC GAGGAGACAAGGGGAGAAAACAAGACGGGGGGGAAAAAAACC ACGGGGAGAGAAAGGGAAAGAAAAGGACCCGGGGCCAGAAGA GGCCAACCAGGAGAGGGGAGAAAACCGAGAAGCCGAAAAAAG A G GAA A A A GAGGAGGGAGCAGAGGAGGGAGCCAAGAACAAGA AA $\operatorname{A} G A A A A A G C A A A G G A A A G A A A A A A A A G G G G G G C C G G A G A G$
 $A G C C G A A A G G C C A G A A G A A A G G A G A A G A A G A A A A A C A A A G A G$ AAACAGAGAGGAAAGGAGGAAACAGAGACACAAGAACAAGAA AAAGGAGGCCGAGACCAGAATAGGACGGAAAGCCGAAGAAAA C C A A A A $\mathcal{A} G G G G G G G G G G G G G G G A A A A G G G G G G C C B A A G G G C C$ GAAAACAAGAAAACAAGGGGGAAGAAGGAAGGCCCCGAGAGG G GAAGGAAAGGGAAGGAAACGGAAGGATGAGGCCGGGAAACC A A G A T A G G GAAAG GAAGGAGGAGAGACAAGAGCAGAAACCCG GACCGGGAACGGTTTTGGATCCGGAAGGTACCAAAAAACACC A GCCGAAAGGAAAAAAACAAGAAAAGAGCCCAAAGGAAAGAG A G G GCAA $\mathcal{A} A A C C G G G G G G G A A G G G G G G A C C G G G G G G A A G A A G$ AAAAGGCCAACCGGAAGGAAAGAACCAAGAAGGACCAGAGAA
 G G GAAAAAGGGGAACCCCAAAGGGGAACGACCCCAAAAGGGG G G G GCCGGGGGGAAGGAACCCCGGGGGGCCAAAAGGCAAAAAA AAAGAAAGAGGGGAAGCAAGGGAGCCGAGGAAGAACAGAGGG C CAGCCGGAACCGGAAAAGGCAGGGGGGACAGGAGAACAAGG G GAA A A A A G G GAGGGGCAAAGGAGAAGAGGCAAAGAAA GGGG A G A A T TA GAGCCAGAAAAGAGGGGGGCCAGCCAAAAAAAGAA AAAAAAAAAAGGCCAGACAGAAGAAAAAGGGGAAAAAACCGG A A A A A GAAA A A A G GAACCA $A \operatorname{ATA} G G A A A A G G G G G G A G G G A G A G$ A G G G A A A G G G G G G G G G G A G G G G A A G G G A G G G G G G G G G G A A A A A G A A C C A A A C G A A GAAA A GAGGGGAAGGGAGGGGA GAA G G G G T T G A G G C A G G A A G G A A $\mathcal{A} G G G G G A A A A C A G G G G G A G C G A A G A G$ GAAAGGCCCCGGCCGGAGAAAAAAGGGGAGGACCAGGGAAAG

A A A A G G G G A G G G G A G G G G G G G G A G G G G G A G G G A A C C G G A A G G
 GAGAAGGAGAGGGGAGAGAAACGGAGGAGGAGGGAAAAAGGG G GAGAAAAGAAGGAAAAAAAAAGAAGGGAGAAAAAAGAGGGG A GAGCCGAGAGGGGAAAAAAAAGGGGAAACGGGAAGCCAAGA A G G A G A A A GAACGGAAGGAGGGGGCCAAAACCGGAAAAAAAA G G G G G G A A G G A A A A G G G G G G A A A A G GAA $A \operatorname{GGG} G A A A A A A G G C C$ $T \mathrm{~T} G \mathrm{G} A \mathrm{~A} A A A G A A G A G G A A A G G G A A G G G G G G G G G G A A C A A A A A$ G GAAGGAACCAACCAAGGCCGGGGGGAAAAAAGGGGAAAAAG $C \subset A A G G G G A A G G A A A A C C A A A A G G G G G G G G G G G G A A A A A A G G$ AAAAAAGGAAAAGGAAGGAAAAAAAAAAAAGGCCAAGGGGGG G G G GCCAAAAAAAAAAAAGGAAAGGAAGGAAGAGCCAGAGGA GAGAAAAAAAGAGGGAGGAAAGGAGGCCGGGGAAAACAAAGAG G GAAACAAAGAGGGCCAGGACCGAAGGAGGGAGGGAGGAGAA GAGGAAGAGGGGAAGAGGCGGGAGAGGAAGGGGGAAAAAAAA G GAA A A GACAGGAAGAGGCAAAAGAACCCCCCGAAGG
GCCGGGGAAAAGGGACAAAGAGAGGCAGGAGAAGGAAAACG AAAGCCGGCCGGAGAGAGAAGAGGGACAAAACGGAGCAAGAA A GCAGGCCAAAGAGGGGGGGGGGAAAACGAAAGGAAGAAAAA G G GAGACCGGAAAAAGCCAACAAAGGAAACGGAAAAAGACAT $G C A A G A A A G A G G G G G G C C A A G A G G G G G A G G G G A A G A C B C C C C$
 A A TAAAAAGAAGGGGGCCAAGGAAGGGAAAGGGGGGAAGGAG AAGGGAGGCAGGGACCCCCCAGAAAGCCGGGAAAAGGGGGGG AAAAAAGGGGAGTAGAGGAAACAAAAAAAAAAGGGGAAAAAG ACAAAAAATTGGCCAGAAAAAAAGGAAAAAGGGGGGAAACAA GAAGAGACAGAGGGAGGAGGCAGGGAGAGAGGAAAGGAACAA
 G GAAACCCAACCAAAAAAAAGGCCGGGGAAAACCGBAAGAAG G G GAGAAGGACCAGGGGGAAAAGGGGAAGGAGAACAAAGGGA A GCAAAAATTCCGGGGGGAAAGGAAGAAGGAAAGAACABAAG GGCAAGGGGGAAGGCAGCCCAAAACAAAGGGGAAGAAAGAGG AACCGAAGAAAGGAGGAAGGAGGGAAAAGAAACCAAGAAGAG AAAGAAGAAAGAGGAGGGACGAGGAGGGCAAAGGAAAAAACC GAGGGGGGAGCCAAAAGGGGAAAAAACCGGAGGAAAGBACCC AAGACAGAAGGAGGCCAAGGACGGAAAAAAAAAAGGCCAGAC GGAACCCCAAAAGGAGGGAAAAGGGGAAGGTAAGAAGGGGGG G GAGGGAAAAAAGGAAAGCCCCGGAGGGAGGGAGAAGAAGAC TAGAGAAAGGCAGGAAAAGGAGAAGAGGGGAGGAAAAACA G G $A \operatorname{A} A$ CAA $A$ A A $A \operatorname{GA} A G G G G G G A A G G G G A G C A G G A A G G G A G G G G G G G G$ $G G A C G A G G A G A A C C A A G G A G C A G G G G G A A A A G A G G G G G A C A A$ A GACGGAAAAAAGAAGGAGAAGGAGGGAGGCCCCGGGGAAGA GAAGGGAAAGGAGAGGAGAGGGGGAAAACCCCAAGGACAGAA G GAA $A \operatorname{GAAAAACCCAAGAAAGCAGGAAGAGACAGGAGGGGGGG}$ GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGCCGGCCCCAA A G A A GCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGGATACC AACCGGCCAGAGAGGGAAAAGGCCAAAGAAGGACAACGAACC
 A A G G G GAA A GAGACAAGGGGGGGGGGGGAAAAAACCGGTTAA G G G G A A A A A A G G G GCCGGGGACAGGGAGCAAGCAAGACAAAG G GAA A GCCAGGAGGAAGGGGGAGGCCCCAAAAAAGAAAAAGG C C A A C C G G G A G A A G G G G G G G G G G G G A A G GAGGGGGGAGAAC C A A A G A A G G A A A GACCAAGAAACCCAAGGAAGGGAAGGGGGCA $C \subset G G A A A A G G A A G A G G A G A G C A A G G G G A C A G G C C G G G G A G G G$ C CAGAGGAGGGGGGAGACGGGAAAGGGGCCAAGGAGGAAGAA A A A A A A A A A GAGAGGAGGGGAAGGGGAGGGGGAA GAAAAAAA G G GAGGCCCCCCGGGGCCGAAGGGGAAGAGGAGGGAAAGGGG
 G GAAGGCCAAGAGAGATAGGAGAAAACAGGAGAGAGAAGAAG

A G G G G A G G GA G GAAAGAAAAAAAGGGGGGGGGGCAAAAAAA
 A A G G G GAA A A A A G G G G A A G GA GAAAGGAAAGGGGCAAAA A A A GAGGAAGGGGCCGGAGGAAGGAAGAGGAAAAAAGAAAGAACC $A C C G G G A G A G A G C C A A C C G G A A A G G A G A T T A G G A G G G G G G G A$ GAGGGAGGCCGGAGACAAAAGGGAGAGCAAAAAGGGAAGAAA AAAA A GACGGAAGGCCGGAAAAGGGAAAAGGAGGGGCAAAAA G GAGGGCCGGGGGGGGAGGAAAAACCAGGGAAAGGAAAGAAA GAAGAAAAGACCAAAAGGGGCCGGGGGAAAAAAAACAAGGGA GAGGACGGCCAAAGAAAACCGGAGAGGAGGGAAAGGAGAAGG C C A A A A C CAA $\operatorname{C}$ G G GAGGAGAGAAAAGAAAAAAAAGGCCCCCC AACCAAAGAAGGGAAAAAGGGGGGCCCCCCGAAGAAAGAAAG A A GCGGAAAACCGAGGGGAGCCAAGGAAAGCCGGAAACGGGG G G A A G G G G G G A G G G C C G G G A A G A A A C A A A GAC G G G G G G C C G G G GAACAAGGGGGAGAGGGGAAGAAAAAGCCAGAAGGACBGAG $C C G A A A C C A A G G G A A A A A A C A G G G G G G G A C G A C A A G A A G G A A$ G G G A A GAA $A \operatorname{GA} A A \operatorname{A} C \subset A A G G A G G G A G G A A A G A A G G C A A G G B A$ G G A A A A G A A G G G G A G G G A A GACTAGGGGCCAAGGAGGAAAGG GAAAAAGGAAAAAAAAAAAAAGCCGGAGGAGAGAAAAGGGGG A A A G A A T A A A A A A A A G G G A A G G A G G G A A G G GAA $A$ G G A A A A A A AAGGAGGGAAAAACCAAAGGCAGGGAAGGAAGACAAGGAAAA AAAAGAGAGAAAAGAAGGAACAAGAAAAAGGGGGGGGGAGGG A A A A A C G G G G G GAA $A \operatorname{AAGAGAGAAGAGGAGAGGAAAAGGGGGG}$ G GAGGAGAAGCAGGGGAGAAAAAGAGAGAGGGGGAAAAAGGG GAGGAGAAAGGGGGAGGGGGACACACAAGGGAGGAGAAACAA AA G G G GAAAAAAAAAAGGAAAGAGAAAAAGAAGAAAGAGGAA AA G GAAAGAAGGAAAAGGAACACCGAAAAAGAGAAAGGGGAC A A A A A A A A G GAACAAAGGAGAGGAGAAGAAAGAAA GAGAAAC G G G A C A A A A G G GAGGGGAGAAAGGAGAGGGAGAGAACAAAAC A A G GAAGGAGCAAGGGGAAGAGAAAAAGAGAACAA GAAACGG G G A A A GAGCAGGGGAAGGGGAAAAGACCAAAAAAGAAGAGGG AGGGCCAGGAGAAGGGAACAGGGAAGGGGGAGAGACAAAGAA A GAGGAGGACAGGGAAAAGGAAGAGAAGAAGGACGGGACAAG A GAAAGGAGGGGCCAGGAGGAGGAGAGAAAGGGGGBAACCAA AAGACCGGAACCGGCCGGCCAGGAAGCAGAGAGAAAGGAGAA ACAAAGAGAAGACAACGGAGCCGGGAAAAAAGACGAAAAAGG CAGGGGGAACGGGGGGGGGGAAACAAAAGGGGCCACGGGGGG AACCGGAGAAAGGAGAGAGGACAAGACAGGAAGGGGAGAAAG A A A G G G A G G G A A G G A A G G G G A A A G A A G G C C C A G G G A A G A A C C GAAGGAGGAAGGAGAAGGAAAAGAAGGGAAAAAAAACAAAAA A A A A A A G G G G T T G G G G A A G G A A A A A A G GA GAAA A CA A A C C C C
 $A G G G A A G G G G A G A A G G G A A G A A A C G G G G G G G G G A G G A G G A G G$ A A A A G G G GAGGGGGGGAAAAGAAAGAAAAAGGGA GAGGAGAA G GAAGGACAAAAAAGGCCGGAAAAAGGGGACAAAACGGAGGA A A A A A A G A A A G G G A G G A A G G A A A $\mathcal{A} G G A G G G A G G A G G G G G G G G$ A A A A A A A A G G A A A A C CAA $A \operatorname{AGGGGGAAAAAACCAACCAAGGGG}$ A GAGAGCCGGAGCCAGAGGAGAGGAAGAGGGGAAGGCCAAGG AAACGGGGAGAGACAGAAAAAAAGAACAACAGGAACAAGGGA A A A A A G G A A G A G G A A G A T A G G A A GAGGGGAGAGGAAAA G G G A A GAG $A \operatorname{GGG} \operatorname{G} C A G G G G G A A A G G C C G G A A G G G A G A G A G G A G A G A G$ $G G A A A A G G G G A G G A G G A A G G A G A G A A A G G A A A A A A A A A G G G G$ $G G C C A C C C G A A C A G G G G A A A G G A G C C A A A T A G A G A A G G A A A A$ $C C G A A A G G G G G G A A C C A G A A A G G G A A A G A G G G G G A G G G G G A C$ AACAGGCCAAGGAAAAGGAAAAAAGGAAACGAGGAAAAGGAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAAACAAAAAGAG
 A A G G G G G A C C C C G G G G G G A A A A G G G G A A T T G G A A C A A G G A G A A G G GACACGGGGAAGGAACAGACAGGCCAAAAGGAAGGGGGG

G G G GCCCCGGCCGGAAGGAAAAAAAAGGAAGGAAGGCCAAGG A A G G A A A A A A A A G G A A A A A A G G G G G GAAGGAAGGAAAAAAAA
 A A G GAA A G G G G GAAAA $A \operatorname{A} A A A G G A A A A G G A A G G C C A A G G G G G G$ AAAAGGGGGGCCGGGGCCAAAAGGAAGGCCCCGGGGAAAAAA G GCCGGAAAAGGAAAAGGGGAAGGAAAAAAAAAAGGGAAA G G $A$ A A A A G GAA A G G GAA $A \operatorname{Ag} \operatorname{A} G A A A A A A G G G G G G G G G G C C A A A A G G$ $G G A A G G G G A A G G A A G G G G A A G G G G A A A A C C A A G G A A A A A A A A$ G G G G G G G G A A A A A A G G A A A A G G T T A A A A G GAA $\mathrm{A} G \mathrm{~A} C \mathrm{C}$ G G G G G AAGGAACCCCGGAAGGGGGGAAGGAAGGGGGGAAGGAAGAAA A A G G A A G G G GAAAACCGGGGCCAAAAGGCCCCAACCAAAAAA G GAAGGAAAAAAGGAAGGCCAACCAAGGAAGGAAAAGGAGAA AACCCCGGCCGGAAAACCCCAAGGCCGGAAAAAAAAAAAAAA G G G G A A C C G G G G G G A A G G A A C C G G A A A A C CAA G GAA G G C C A A G G G G G G A A A A G GAACCGGGGAACCAAAATTAAGGGGAAAAAA G G G GCCGGGGAAGGAAGGCCGGGGAAGGAAAAAAAAA
A A A A A G G A A G GCCAAAAGGCCGGGGAAGGAAAAGGGGGGGG1 G GCCGGCCAAAAGGGGCCCCAAAAAAGGGGGGGGAACAAAGB A A A A G G G G A A G G G G G G G G C C G G T T G G A A A A G G G G G G G G C C G G G GAAAAGGGGGGAAGGGGCCAAAACCGGCCGGGGGAAABAA G G G G G GAA 1 T T G G G GAAAAGGGGAAGGGGGGGGGGAAAAAAAA A A G GCCGGAAGGAAAAGGTTGGAAGGCCGGCCGGAAGGGGGG A A A A C C A A A A A A A A A A A A A A G G G GAA $A \operatorname{AGGGGGGGAAGGGGGG}$ A A A A G G G G A A $\mathcal{A} G G G G G A A A A G G G G A A A A A A A A A A C C G G G G A A$ $G G A A A A A A G G G G G G G G A A G G G G A A A A G G G G A A G G A A A A G G A A$ G GAAAAAAGGGGGGGGAAAAAAGGCCAAAAAACCAAGGAAGA G G G GCCGGGGCCGGGGGGAAAAGGGAAAGGAAAAGGGGAGGG A A A A T T G A A G G A A A A A T T G G G G A G G G G G G G G A C A G A G G G A G G ATCCGGAAGAAGGACCGGAACCGGGGGACAAAGGGGGACCAG CAGGGAAGAAGGAAAAAAAAAGCCGGAAGGAAAAAAGGACAG GACCCCGGAAAAAAGAGGAAAGGAGGAGGAGAAAGAAGATGG AAGGCCAAGGGGGGGGCCAGGAGAAAAAAATTAAGGAAGGAA G G A A G G G G G C G G G A A G G G A A A A G G G G G G A G G G A C A A G G A G A A C C G G G G G G A A A C G G G G A G G G A A A G G G G G C A GA G G G G G G A A T T C G A A A C G A A A C CAA $A \operatorname{GGGGGGAAAAAAAACCACAGAGGGGGGA}$ A C A A G G A A G G A A A A G G C C A G A A G G G G G A G G G G C C G A G G C C G G $C \subset C \subset G G G G G G A A A A A G A A G A C C G A G G A A G G A G G G G A A G C C G G$ AAAACAGAGGAGCAAACCAACCTTCCGAAAGAGAAGCCAAGAG AACGAGGAAGGAACAACCGGAGAAAAACCCCAGAGGGAAAAC G G G G A A G G G G G GAA A GCCCCAAAAACAGAAAGCCAAAA GA G G AAGGGGGGAGGAAAAACCAAAATTAAGGGGAAAAAAGGAAAA G GAAGGAAGGCCAAAAGGCCCCAAGGAAGGAAGGAAAAAACAC
 GAGGAAAAGAAGGGGGGAGAGAACAAGGAAGAGGAACAGATA CAAGAACCGGGGGGAAGGAACGCAGAAGGAGAAAAAAAAACA A A A A G A A ATTCAA $T$ T GAAAAAAA AAAGGAGGGGGAAATAGGGG G GAA A G G GAAAAGGGGGAAAAAAACCAAGGAAAAACAAA GAA GAGAAGGGCCATGAGGGGCCGGAAAAACCAAGAGGGGGCCCC AAAAGAGAGACCAAGACAGGAAAAGAAGGACAGAAAGGGGGA GAGAAGCCAAGGAAACAAAACCCCGGGGGGCCAAGGGGCCGG A G G GAA A GAA $A$ AAAAAAGGCCGCAAAAAAAAGAGGGGAGAGAA C C G G G GAACAGGGGAAAAAGAAAAGGGAGAACGACAAAAGGG G G G G A A C C G G G G G G G G C C G G G G A A G A GAG GAA A A A A G A A C C G G AATACCGGACGAAGAGAGAAGGCCGGGGGGGGAAAACCGGAA A A G G A C G A G G G GAGGGAAGAGAGAAAAGCCCCAAAGAGAAAA G G G G G G T A C C G A G G A A A A G G A A G A G G A C A G A C C A G A A G G A G A A A A A A A GAGGCAAGAAAACCGGGGAGAGAGAGGGAAAAAA GA
 GAAAAACCGGAAGGAGGGACGGAGGAGAAGGAGGGGGGGGGA

A A GAGGAGAAAGGGGGAAAAGGGAGACCAAGGGGGAAAAGGA $A G G G G A G G G A G G G A A A G G A A G A A G A A A G A C A C G A G A A A G G G A$ $G G C A A C G G G G A C A G G A G A A A A A G A G A A A C C A A A C G G C G A A G A$ G GAA A A G G GAGGGGGGCCGGAAAACCGGGAGAAAAAGGAAGA A A GACCAAGGATGGAGGAAAGCAGGGGGGGAAAAGAAAAAAG G G A A A A A G A C G GAA $A \operatorname{GGGGGGAACCGGCCGGGGAAAAAAAGAA}$ A A A G G A A G A A A A A G C C G G G G G GCCAA G G A A G GC C A A G G G G C C G G G GAA A GAG GAGAGAGAAAGGGGACAAGAAGGACCGGAGAA CAGGAGAGGGAAGAGGGGGGAAGGAACCCCAAAAAAAAAGGG $A C G G G A A G C A G G A G A C G G G C A G A G A G A A G A G A G G G G A G A G A G$ G GAA A GAAAAAGAGAGGGACACAGGGAAGGGACCAAGAGAAA CAGGCCGGTTAACCAGAAAACCCCAACCGGAAGGAACCAGAG G GAGGAGAAGGGCCGGAGGAGAAGGAAAAGGGACAGAAAGAG A A A A A A A G G GAAGGGAGGACAAAAGGAAAAGGGGAAGACCAA A GAGCAAAGGAAAAGAAGAAAGAAAAAGGAGGAGGAGAGGAG AA $A \operatorname{GGGA} A A A G G G G G A A A A A G G A G G A G A G G A A G G G G A A A A A G$ GAGGCCGGAAAGGAAGACGCGAAGAAGGCCGAGAAAGAGGCC A A A A A A A A A A G A G GACGAGGCCGGAAAAAAGGCCAAGAAACC A A G G G G A A G G A A G G G G G G A A G G C C C C GA $\mathcal{A} G G G G G G G A A G G G G$ G G GAGGAAGGCCGAAAAACAAAAAAGAGAGGGAAGAACAAAC GAAAAGAGAAAAAAGGAAGGAAGACAAGAGAGGAACGAAAGG AAAGAAAAAAAAAAAAGGGGAAAAGCACGGAAAAGGGAAGAG A A C A A G G G G G G G G A G G G G A A G G A A GAAA A GAAAAAAAA A A A A G G G A A A A ACCAAGGAGGAAAGACCAAGGAAGAAGAGAGACAA
 A A G GCCAAGAAGGGAGGGAGAGGAAACCGGAAAAGAGGACGG A GAGAAGGGACCAAGGGAGGAAGAGGAGAACCGAAGAGAGGA A G A A A G A C A A C C C C A G G G G G G G G G G G A A G GAA $A$ G A A A A G G C C G G G G G G G G A A C C G G G G A A A A G G A A A A A A A A A A G G G GAAAA A A GAGAAACAAACCGGAAAAGGGGAAAGAGAGAAGAAGCCAAAC G G GAA A GAAAAACAAAAACAAAGGGAAGAACCAAAGAAAGCG AA $A G A A A G A G A C G A A G G G G G A G G G A G G G G G G G G G A A G G A A A A$ AACCCCGGCCGGAAGGAAGAGGCCAGTTGAAAGAGGCAAAAG
 GAAACCGGCCAAGGACAAGGGAGGGAAAAAAACCAGGGAAGAG G G G G A GCC G G A A C C C C G G G G C C A A G G G G G G G G C C G G A A A G G A G G GAAAAGCCAGGAAGACGAAGGGGGAGACGGGGAAAAAAAA AAAAGAGAAAAACCACGGGGAAGGCCCCAGAAGGAAGGAAAAA G G G G G G A A A G G GAAA A G G G A A A A A A A A G G GAGAGACAAAAAA GAAGAGCCAACCAGCACGAAAAGGGGGGGGAAGGGGGGAGAG AA $A$ A A GAAGGGGGGAACCAAAAAGAGAGAACCAATTAAAACC C C G G G G G G A A G GCC G G A A G G G G A A G G A A C C G G G G A A C C G G G G $C$ CAACCAACCCCAAAAAAGGGGCCAGAAGGCCCCCACCAGGA AA GA $\operatorname{A}$ GAACCAGGAAGGGAAAAAAAGAAGGAACCGGAAGAAA A A G A A A A A G G G G G A A A A A GACCCCAGGAGAAGCCAGAAAAAC GAAAAAAAAACCGGGGGGAAGGGGAGAAGGCCGGGGAAAACA
 G G G GAGGAAAAAGGCCGGGGACCCAGAAAACAGAAAAGGGCA A TAGAGCAGAAGGAGGGGGAGGAAAGAGAAAAAAGGGAAGGG G GCCAGGGAAAGAAGGGAAAGGGGGGAAGGGGCCAAGGAGAA AAGGAAGGAAAAAACCGGAAGGAAAAAAAAAAGGGGGAAAAA G GAA A GAA $A \operatorname{A} \operatorname{A} A A G G G G G G A A A A G G G G G G C C C C A A G G A A G G G G$ A A A A T T C C G G A A C C G G G G G G A A G G A A A A C C A A G G G GAA C C G G AACCCCCCGGAAAAAAAAGGAAAAAAGGAAGGGGGGGGAAGAG $C G C C G G C C A A C C G G A A G G A A G G A A A A A A G G A A A A G A C C A G A C$ G G GAGGGAAAGGGGCCAGGAAAAAAAAGAAGGAAGGAAAGCC
 C C A A A GA GTAAAAGAAAACCGGAAAAAAACGGCCGGGGAGAG AAGGGGAGAACCGGGGAGAGAAAGAGGAGAGAGATTAACCGG
 CAAAAAGGGGGGAGAAAAAGGGACAACCGACGGGGGAAAAAA A GAGAAGGGGAAAAAAAGCCGGGGGGGGCCGGGGAACAAAGA GGACAAAAAGACGGAAAAAAAAAAGGAAAAGAAGGGGGAGGA ACGGCAGAAGAACAGGGGAAGGGGAAACGAAGAAAAGGGGAA A GAAAA A $A$ A A G G GAGGGAAGAGGGGAAAACCGGAAGGAAGAAA A A G G G G G G G A G GA $A \operatorname{GG} A A G G A A G A G A G G A G A G G G G G G A A A A A$ G GAAGGGAAAACAAGGAAGGGGGGGGGAAGAAAAAAGGTTGG A A G G A A A G G GCCAA $\mathcal{A} G A G C C G G A A G A G G A A A A G G A G A A G G G G$ G GAAAACCACGGAGGGGGAAAACCAAGAGGAAGGGAAGAGGG A A A A A GAAAAAGCCAGGAGAGAACCCGGAAGAACAGCCAGAA
 G GAGGGGACCGAAGACGGGGGGACAGGAACAGGGAAAGAGGG
 G G G G G A T TA $\mathrm{T} G \mathrm{~A} G A \operatorname{A} G A A G G G G C C A A A A A A A A A A G G G G G G G G$ A A A A GAGGAGGGAGGGAAGACAAGGAGACAAGGGCCA
$A C C A A A G A G G A A G C C A A G A A A G G A A G G G A A A A C A A G A G A A A$ $C \subset A A C C A A A A G G G G A A A A C C G G G G G G T A A A A A G A A A G G A A C C$ $G G A A A A A A G G C C G G G G A A C C A A G G A A A A G G A A A A G G C C A A G B$ C C A A G G A A G GCC G GCCAAGGGGGGGGAAAAAAAAGAAAAAAA G GAAAAAAAAAAGGGGAAAAAAAAGGGGCCCCGGGGAAGGGG G G G GAAAAGGAACCGGGGAAGGCCGGAACCAAGGAAAAGGAA
 A A A A A A A A A A A A G G A A A A G G A A A A A A A A GGGGGGAAGAAAAA A A G GAA A G G GAACCAAAAAAGGAAGGAAAAAAAA GGGGCAAA G G G G G G G G G GAAGGAAGGGGCCAAAAAAAAAACCAAAAAAAA A A A A A A G G G G G G G G G G A A C C G G G G G GAAAA A G G GAAAAAA A $\mathcal{A}$
 C CAAAAAAGGGGAAGGGGCCAAGGAAGGGGGGGGAAAAGGAA G GAAGGAAAAGGGGCCCCAAGGAAAAAAGGAAGGGGGGACAA G G G G A A A A $\mathcal{A} G G G G G A A C C G G G G G G G G G G A A G G C C G B A A A A A A$ AAAAAAGGGGGGCCGGGGCCGGAAGGAAGGGGAAGGGGAGAA AA $A \operatorname{GAA} C \subset A A A A A A G G G G G G G G A A A A G G G G A A A A G G G B A A A A$ A A G G A A G G G G G G A A A A A A G G A A G G A A A A C C A A C C G G G G G G G G A A A A G G G G A A G G A A G G G G A A A A A A G G G GAAAAAC CAA G G G GAA A A G G G G A A A A G G G G A A C C A A G G G G G G A A G G G G A A G G A A G G G G G GAAAAGGCCAAAAGGGGAACCGGGGGGGGGGGGAAAAAACC A A A A A A G G G GA A A A A A G G G GCC G G G G G GCC G G G G G G G G GA G A G G G G G G A A G G G G G G A A A A $\mathcal{A} G G G \operatorname{GAA} A A G G G G G G A A A A G A A A A A$
 GGGGCCCCAAAAAAGGGGAAGGCCAAAAGGGGAAAAGGAGAA C C G G G G G G A A A A C C G G A A A A C C G G G G C C A A A A A A G G G G T T G G G G G G G GCCGGGGCCAAGGAAAAGGCCAAAAAAAACCAAGGGG G GCCAAAAAAGGGGGGGGAAGGAAAACCGAGAAAGAAAGGGG A A A A G GCCAAAAGGAAGGGGGGAAAAAAGGAAAAAAGGGGGG A A G G A A C C A A G G A A G G G G A A G G G G G G C C A A G G G G G G A A G G G G G GAACCCCGGGGAACCGGGGGGGGAAAAAAAAAAGGGAAAAA AAAAAACCGGAAAAGGGGAAGGGGGGCCGGCCAAAAGGGGCC AACCAAAAGGAAAACCGGGGCCAAGGAACCGGAAAAAAAAAA C CAAAA A GAA $A \operatorname{AGGGAA} G G G G A A G G A A G G A A A A A A G G A A G G G G$ A A G G G G G G G G G G A A A A A A G G G G G G A A A A A A A GAAA A CAAA $A$ A G GAGGAGAGGCCAAAGACGAAGAACCAACCAAAGAAGAAAGA C A A G G G G A A A G G A G A G G G A A G A G G A G A A G G A A A A G G A G C A A G AAAAAAAGGGACAGGGAAAGGGATAGACAGGACCAAAGGGGG $A G A G G A G A G G G G G G A A A G A G G A G G G A C A G G A A G A A G A G A C A A$ A G A A G G G G A A A GCAC CAAAAAGCCAAGGGGACAGACAAGGCC GAGGACGGCCAAAAACGAGGCACAGGAGGAAGGGAAGAGGGG C C T T G G A A G GAAAACAAGAAAGGGACAAGGAAAGCCAAAAG G $A A C C G G G G A A A A A A A A G G G A A A G A A A G G A A A G G G G G C C G G A A$

A A A A G G G G G G G G G GAAGGGGAACCGGAAAAAAAAAAAGAAAA G G GAACGCGCGGAAACACAGAGAGAAGGGGAGGGGGAAAAAA C C A GA G G G A A A A G GACAGAACCGGGAGGAAGGC GAGAA GAG G G GAGAGGAGGGAAGAGCCGGAAAGGGGAAAAAGAGAGAGAGG G GAA A G G G A A A A A C GAAGGAGGGGGAGGGGAGGGCAAAAGCC CAGGAAAGGGAACAAAGGGAGAGGAGGAGGAAAACCGAAAAA AAAGCAAAAAAAGGCCGGGAAGGGGGAAAAGAGAAGTAAAAG $A G G G A A G G G G G A C C G G G G G G A G G G A A G A A G A G G G G G G G G G G G$ $G G C C G G A A G G A A G A G A A A A G G G G A A G A A A A G G A G G G A A G A A A$ G G GAGGGGAGGGGCGAAAAAAGAAGGGGGACAAAAAGGGGGG G G A A A A A A G G A A A A G G G GAGAGCCGGAGAAAGAAACGGAGAA AC G GAAAACAGAGAAGAGGGAAGGAAGGGGAAAAGAAACAAA G GAGAAGGCCGGAAAAGAGGGAGAAGAAGGGGGGGGACAAAA A G G G A A A A A A GAG $A \operatorname{G} \operatorname{A} A G G A G G A A A A C G A G A A G A G A A G A A A A A$ G G G G G G G G A A C C C C G G C C A G A A A A A A G GAAC C G G C C G G G G G G GGCGAGACAGAGAAGGAGAAGGAAAAAAAGGGAAA GAA GAAA $A A G G G G A G G G G G G G A A G G G G A A G G A G A A A A A A A G G G A A G A G G$ A G GACAGGCACAAGAAGGGGGAGGAAGGGGACAAAGGGGGGG G GAAAACCAAGGAAGAGGGAAGCCGGGAGGAAGGGAAGGGGG
 G G GAGGGGGGGGAAAACCACCCAAAAAAGAAAGGAAAACAAA
 A A A A A C GCGGAAAAAACAGGAACAAAAAGGAGGAGAGAGA GA GAAAGGGGCAGGGGCCCCGGAACCGGAACACAAAAAAAAAAG GA $\operatorname{G} A \mathrm{~A}$ GAGCCGGAAGGCCGGCCGGAAAAGAAAAAAAGAGGCC AA G GAAAAAGCCAGAAAAAGCCAAGAGGAAAAAAAAGAAGAA G G G G G GC C G G A A G G G G G G G G G G G G A A A G C C G A A G A G C C G G G G G GAG G G A G G GCAA GACAGAAAAAGACGGAAGGGGACCCCCCC GAAACCCCCCAAAAAAGGAAAAAAAAAAGGGGAGAAGGGGGG CCGAACAACCAAAAAGGAGGAAGGGAGGAAAGCCAGAAGGAA TAA A A A G G GAACGGCCGAAAAAGAAAGAGGAAA GAA GAGAAG AAAAAAAAACGGGGCCGGAAAAAAAAGGGGAGGGAGGGAGAG
 $A G G G A A G A C A A G G G G G G A A G A A G G G G A G A A A C G A A A C A A A A A$
 A G G A T TACAACAG GAAGAAACCCCGGGGGGGGGGAACACCCC G GAAAAACGAACCAAGGGAAGAAGTTACGAGGGGAACAGAAG CAAAAACCGGGGAGACGGAGAAGACAAGAGGGAGAAGGAGAA A A A C G GACAGGAAGAGACAAGGAAGGCAACAGAAAAGGAAGAG
 A A G G G GAGAGGGAAGGGAAAAGGAGGGAGACCGAAAGGAGAA
 G GAAAGAAGAGAGGAAGGCCAAAAGGGGAAGAAGAGAGAACC G G G A A A G G A A G A G G A A A G G G C G G G A A A A A TAGGGAACA GAAA G G G A A A A A A A G G TAACAAGAGAGGGAGGGGAAAACCGGGGCC G GAGGGTTAAAAAAGGAGCCAAACCAAGCAAAAAGBAAAA GA ATGAAGGGGAATAACCGGAAGAAAGGGGAGAGAGGAAAAA G G $\mathrm{A} A$ A A G G G G G G G GAAAAAAAAAGAGGAAACCGGAAGGAGAGAAGA G GCCGGGGCCGGGGAAAAGGGGAACCGGGAAGAGAAGGAAAC G G A A A GA $\operatorname{A}$ GAGAAGGGAGAAAAAAGGAGAGGGGGAAAAGAAAA GAAAGGGGAGCCAGAAGAAGCCAGAACCGGGGAAAAAAGGAG $G G A A G G G G A A G G G A A G A A G G G G G G G G G G G A G G A A A C A G A G G G$ A A A A G G C A A A A A A A A A G G G G A A G GCCAGAAGAACA GAAAGAG G G G G G GAGAGAAAAGGGGAGAGGGAAAGAAGGCCAGAACCAG GAAGACCACACCCGGGAAGGGGGGCCAAAAAAGGGGGGAGAG G GAGGAGGGGAGGGGACCAAAACAAGGGAGAGGGAAAAAACAC GAAA A A A CAGCAAAGGGGCCGGAGGAGGGGGGGGGGAAAAAA A G G G G G C C G G G A G G G G G A G G G A G G G A A G A C G A G G A G A C A G G G AAAGGGGGCCGGAAAAAGGAAAGGAGAAGGAAGGAGAGAGGG

G G G GCAGAGGAAAAAGAACCCCGAGGAAGAAAAGGAGAAGGG AACCGGAACCAAAAGGAAACCCAAGAGAGAAGAGAAGAAAAG GAAGAAGAGGGAAACGGGGAGGGAGGGAGAAGGAAACAAAAA G GACAAGAGGGGGAAGAAGAGGGGAGGAGAGGCCAAGACC GA ACGGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAAGGGAGCC G G GAACGGGGAGAGGAAAGGAAGGAAGGGAACGGACGAAGGG G G G A G A A A G A G G G G G G A G G G C C G G G G C C G G A A G G G G A A A G G G AAGGAAGGAGAAAAAAAAGGGGGAGGAGGAACAGAGGAGGAC $G G C A G G G A A G A A G A G G A A G A A A A A G A G A C A G G G A A G A C C G G G$ $C C G A C A A A G G A G G G G G A G A A G G A G A A A G C A A G C C A G A G A A A G$ A A A A G GAGGAAAAAGAAAAAACAGCCAGCCAAAAGGACGGCC

 AA $\operatorname{A} A A A A G A A G G G A G G C A A A G G A A A A A C G G A G G G A A A G A A G G$ G G G G G GAGGGGAGGGGGGAAGGAAAAAAAGAGAGAGAGAAAC A A A G A GAGAGAGGGGGCCAAAAAAACGGCCGGAGAGA
A G G G G A A A A C A G G G A A A A A A G GAA $A \operatorname{AGGACGAACAGGGGGAA}$ AACCAAGGGGAAGGCCAAAAGGAAAAAAAAAGGAAAAGAGAA $G G A A G G C C G G A A G G A A G G A G A G A G G G G G G A C A G A A G A A G G A A$ A A A G A GA $\operatorname{A}$ G A A GAGCAAGGAAGGGAGAAAAGGGGAAAAAGAA AGAAGGAGCCCCCCGAGGAAAGAGAAGGCCAGAAAGGAAAAG A A GACCGGGGGACCAAAGGGGGAAAAACGAGGGGGAGAAAAG A G G G G G A A $\mathcal{A} G A C A G A G G G G G G G G G G G A G A A G A G G A A A A G G A A$ C C G G A A G G G GCCGGAAGGAGAGACGGAAGAAAAAAAAAAAG G G G G GAAGGGGAAACCGAAAGAGAGGAGAAGAAGAAGAAAAAG G G GACCAAGCAAGGGGGGAGAGACGGAACCCCAGGAGGAAAG
 $G G A G A A A A G G G G A A C G G G A A G G A A A G A A G A G A G G G G G G G G G G$ A CAG GAGGAAAGGAGGGGGGAAAAGGGAACCCAAGGAGAGAA G G A A A A G G A G G G G GCCAACCGGGGGAAGGAGGAAAAGGAGAA AC G GAAAAAAGGACGGACAACCGGGGAAAAGGAGGAAGAABA A G G G G G G GCC C G A G G G GAA A A A A A G G G GAGGAAAA A GACC G G A GAAAACAGGGAAGGGAGGGGGAAAAAGGGGAGGGGAATAAG G GAGCAAGCAGGCCAAGAGGAGGGCAGAACGGGGAAGGGGGG A GAGAAGGAAAAAAAAAAGGGGAAAAAAGAGGAAGGAAAAAA G G A G G G G G C C A A A A G G G A A G G G G A G G A A C C A A G G A G G G G A G G
 A A A A A A A A G G G G G GAGGGAAGGAGAGAACCAGAAAAAACC AA A A G G G A $\mathcal{A} G G G A A G G A A G G G G A G G A G G G G A G G G G G A A G A A G A G$
 $G G C A G G A A G G A A C C A G A A A A A G G A G G G G A C A G C A G A G G A G G G$ A A G G C C G G A C G G A G A A G G G G G A A G G G G A A A G A G G G C G A A T C C A G GAAAAAAAAAAAAAGGAAGAAATTAAGAGGAGAAAAAACC
 GAAAAAAAGGCCGGAAGGCCAGGAGGGGGGACGAA$G A G G G G G$ G GAAAGGAGGCACAAGAGGAGGAAGGAAGGAAGGAACCCCBA A A C C A A A G G G G G G GCAA $\mathcal{A} A A C C A G A A G A A G A A A A A G G A G G A G$ A A GA $\operatorname{A} A A A G G A G G G G G A G A G A G T A A G A C A G G A G G G G A A A G A A$ AAGGAACCCCAGAAAAAAAGAGGGCAACGAGGGGCAAACCBG C CAA $A$ A $A G A A A G A C A C A G G G G G G G G A A G A A A G G A A A G A B A C A G$ A A G G G A A $\mathcal{A} T \mathrm{~T}$ TAAAAGGGGGGGGACGCGGAGGAAGGGGAGGAA G G G G G G G G G G A G G G G A A A A A $A \operatorname{GAAA} G G G G G G G G C C A A A G A G A A$ A G G A A GCCAAAAGGGGGAAAAAAGGGGGCCAGAAGAAACCBG $C \subset A A A A A A A A C C C C A G G A A A A C G A A A G G A A A A G A A C A G A A G G$ G G G G G G G G G G G G G G A G A A G GAA A A G GCCAACCCCAAGGGGGG G G G G A A A A A A A A G G G G A A A A G G G A A G GA GAGGGAA GAGAA GA GAAAGACCAACCAAGGAAGGGGAAGGAGGGAAGAGGAAAAAA A G A A G G G G G G A A A GAGAACCAAAAGGGAAGGAAAGAAGAGAA $C C G A G G G A C C G G A A C C G G C C G G A A G A A A A A G G G G G G G A A A A G$

GAGAGAGAAGACAAAGAAAGAAGGAGCCGGGGGAGGGGAAGA
 A GAA A A GACAAGGGGGAAAGAAGGCAGAACAGGGGGAAAGAG AACCAAAGAGGAGGAAGGGGAAGGGGCCGGAAAAAACGAGAA G G G G G GAA A GCCCACCCCAAGAGGAGGGGAAAAAGGAAGAAA
 G G G A G G G G A A A G A A A A G A A G G G G G G G A A G G A G T T A A G G C C A C $G G A C G A G A G G A C G A A A A G G G G G A A A A G G A A A A A A G G G A G G A A$ G GAGGGCGAAAGAGAAAAAGGGAGAGAGGAGGAGAAAGCCGG AGAGAACCAAGGCCAGAACCGGAAAGGACAAAGGAGGAGAAA G GAA A GAGCCGAGAGGGGAGAAGGGGAAAAACGGCCGCAGAG $A G G G G G G G A G G G A A A A G G G G A A G G G A A G A A C C A A G G A G G G A A$ G G G A A C G G G A G A G G G A A A G A T T C C A A GAA $A \operatorname{AGGGGAA} G G G G G G$ GAAGGAGGAACCAAGGGGAAAGAGAAGGAACAAATXACAAGG G GAAACAACCAAAGGGAAAGGGCCGAGACCGAAGACCCAGAG CAA A A A G G G G GAGGGGCCGGGGGGGGAAAAAAAACCGGACAA
 G G A A G G A A G G A GAGAACGCCAAGGGGAGGGAGACCCCCACAA G GAACAGGAAGGACAAAAAAGGAGTTGGGGAAGGAGAACACC AACCAGGAACAGCACGGGGAGGGGGGGAAGGAAGBGAGAGGG AACCCCGGGACAAAAGGGGGCAACCAGGAGGAGAAGCCGGGG A G G GCCGGAGGAGAACGACCGAACAGGGGACCGAAGCCAGGG A G A A G G G G G G A A G A A G A A A A G GA G CAA G G GAAAA A A GAC C G G G GAGGGAAGACCGGGAGAGGAAAAGGTTACAGGGCCCCAGAA G G G GAAAAGGGGAGCCAAGAGAAAGGAAGGCGAAAGAAGGGG GAAGGGGGAGGGAAAAAAGAAAAACCAAGGAAAAGAAAAAGG A A G GAAAAGGGGGGAAGAAGAGGGGGGAAGAAGAAAAAAAGG A A A A A A A A A A A A A A A A A A GGCCCCAAGGGGAAAAAAAAGGCC G G G G G G G G A A A A G G A A A A A A A A G GCAAAAAGGAA G G G G G G A A AAACGAAGAACCGGAACCGGAAGGAAGGCAGGAACCGAGGGG AACCGGAAGGGGAGAGAAAAAAGGGAAAGGCCAAAAAGAGAA AAAAAGGGAAGGGGAGGGGGAAACGGAACAAAAAGGTTAAGG
 GAAGAGGACAAACAAGGAAAGACCAAAAGGCCAAGAAAGGGG C C A A A A G G G G G G G G C C G G A A A A C CAGGGAAAACCGAGACAAA G G A A A A G G G A G G G A C C A A A A G G G G G A G G G G GAGGA GAAACA A A GACGAGGGAAGGAGGAACCAGGGAGAGAAGGAAAAAAGGCC G GAA $A$ GAAAAGGAAAGAACCGGAAGGAAGGAAGGAAAA G GAC C C G G A A A A G G A A G A G G A A CAAA A A C C G G G GCC G GAAA G G G G A G GAA A G G G GAGGAGGGAACCGAGGGGAAGGAAAAAAAAGGAC A GAGAAAACCAAGGGCAAGGACGACCAAGGGGGGGGAGAAAA G G G G A A A A A A G G G G C A GACCC CA $\mathcal{A} G A A A A G G A A A A A G G G G G G G$ G G G G A A C C G G G G G G G G A A G G A G G G G G G A A G G G A G C A G G A A A $G$ GAGAGAGGGGGAGGCAAGAGGAAAGGGGGGGGAAGAAGGGBA A G A A G G G G G G G G G G G G A G A G G G G A G A T A A G A C G G G G A A G G A A G G G A A A A G G G G A G A A G A G A C A G G G GAGACC G GAGGGAA G G C C A A A A G G A A G G A A G G A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} G A A A A G A G A A A A G G G G G G G$ G GAA $A \operatorname{GAA} C \subset G G G G C A A A G G G A T A A G G G G G A A A A A A G G G G G G$ ACCAAAGGAAAGCCGAGAACAAAAGGAAAGAAAAAGGGCCAA A A G G A G A A A A $\mathcal{A} G G G C A A C A A G G G G G G G G G G G G A G G G A A G A G G$ C CAAAAAGGGGGAAAAGAGGGAAAGGAGGGAAAAAAGGGGCC G GCCGAGGAGAAAAAAGGGGAACCGGGGAAGGGGGCAAAAAAG A A A A A G G G T T G G G GCCAACACCGGAGAAAAGGAGGGGGAGAG A G GAGAACGGGGGAAGGGGACCGAGGGAGGCAGAAGGGAAGA
 G G G A A GCC C G G G A G G G G G G G G A G G G G A A CAAAA A A G CA G G T C C A A A GAGACAAAGCCGGGGAAAGGGAAGGGGAAAAAAGAGA A A G G A A A A A A A A G GCCAAG GAACAGGGGAGATAAAACAAAGAG AAAGGGAGGGGAGGGGGGGGGGAAAAGACCGGAGACGGAGAA

GGCCAGGGAAAAAAAGGGGGCGGAACAGACAGCCCAAAGGGG GAAAAAAAAAGGGGGAAGAGAGGAAAAAAGGGAGGGGGAGGG A ACGGGAAGGCCAATTCAAAAGGGGACCGCAGGAGACAAAAA G G G G G G G GAGGGGACCAAGAGAGCAAGGGAGAAGGGAAAGAA GAAGGACCGGCAGGAAGGGGAAGGAGAACAAAGGAAAGAGGA A GAAAGGAGAACCCAAAAGAGGGAGGCAAAGGAACCAAATAG G GAGGACAGAGGGGCCAGGGAAGAGGGAGGAGAGCAGAAAAA G GAGAGAGAAAAAGAGAGGAAGAAGCGGGGAAAAGACCAGAA A A G G A GAGGAGAGAGAGAAGAAGGAAGGGGAAAACCAAAAAAA G G G GCCGGGGGGAAAAAAGGGGGGGGAAGGCCGGAAAAGGCC G G G G G G G G A A A A T T A A G GAAGGGGTTAGCCAAAA GAGAGACA A A G G G G GAGAGAAAAAAACCGACAAGAAAAGGGGGGAAGGAA
 G GAGAAAAGGAAAACCAGGGGGGGAGAGCAGAAAGGGGAAGG G GAGACGAGAGAAAAAGGAAGGGAGAAAGAAACCAAAGGCCA G G GAGCACAAAGACGGGGGGCCCAAGAAAGACAGGGC
$A C C G A A G G A A A A G A G A G A G A C G G G G G A A G A C A A G A G G G G C C$ G GAGAGCCAGAAGGGAAGGGGAGGGAGGAGGGAAGGCCAAAA AACAGAGGAAAGAGGGGGAGAGGGAGGGGAAGAAGGAAAGAA GAAAACGAAAAAAGAGAGGGAAGGAAGGAAAGCCAAGAAAGA G GAGAGCCAAAGAAGGCAAACCAAAGGGGAAGCACACCAGAG AAGGAAAAAAGGAAAAAGGGCAAGGAGGAAACAAGAAAAGAG G GAAAGGGACAAGGAAAGGGAGAAAACCAGAGGGAAAAGGGG $G G A G A A G G A A G G G G A A A C A A A A G G A A A A G A A A A G G G A A G G A G$ G G G G G A G G A A G G G G GAGGGAAAAAGGGAGGGAA AAAAAACAA GACCGAACAAGGAAAGCCGGAGAAGGGGGGGGGGCAGAAGAG A A A G G GA $\operatorname{A} G \mathrm{G} G \mathrm{~A}$ GAAAAAGGGAAAAAAAGGGGGGAGGGGCAGGG G GAAAAAAGGGGGGGGAAAGAGACAAAAAACAAGGGAAGGGG A A A A G GAACGAGGAGGAAGAGGAGGAGAGAGGGAGGAGAGAA AGGGAGGAAAAGAGAAGGAGGAGAGGACAAAACCCCGAGAGA
 G GAA $A \operatorname{GAA} A G G G G G A C C A G A A A G A G G G G A A G A A A C C C C C A G G$ A A G GACGGAAAAGGGGGGAACCGAGAAGAGGGGGAGGAAAAG C C C C G G C A A G A A C C A G G G G G G G A A G G G GAAAAGGGGGGAAA A A A A A G G A A G G G A G G A C G G G G A G A A A A A $A \operatorname{GGGGA} G A A G G G G G G G$
 C C TAA A G G G G GAACACGGGAAAAACCAAAAAGAGAAAGAAAA GAA A A A A G GAGGGGAAAAGAAAGGGGATTTAGCGGGGGCCGG G GAAAGCCAAAAAACCGGACGGAAGGAACCAAGAAAGGGGCC GA GAAACAAGAAACAGAAAAAGGACCAGACGAAAAGAAGAAA AAAGGAAGCAGGAACCGAACAAGGAAAAGGGGGGAAAAGGTT G GAACCAAAGAAAAAAAAAAACGAGGGAGGAAAAACAAGGAA $A G G G G G G G A G A A G G G A C A G A A C A A A A G A G A G G G G G G G G A A A A$ AA GAAAAAGAAAAAGGCCTAAAAGGAGAAACCGGAAGAAAGG $C \subset G G G G G G A A A A A A G G A A A A A A G G G G C A A A A A C C G G C A G G A A$ A GCCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAGAAATT
 AAAAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCCAAGAG G GAA $A \operatorname{GAA} A C A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G G$ AAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGGAA G G G GCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAGG A A A A A A A A A A A A A A A A A A A A A A A A A A GGGGGGGGAAAA GGGG AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAAA A A G GAA A GAAAAGGAAGGAACCGGAAAACCAAGGGGGGAAAA G G G G A A A A G GCAA $\mathcal{A} A \operatorname{A} G A A G A A G G G G G A A G G G G C A A G A A A A A$ A A A A G GAA A G A A C C G G G G G G G G A A A A A A G G GAGGAAAA G GAA
 $G G A A C C A A C C G G G G A A A A G G G G G G A A G G G G G G A A A A G G G G G G$ $C \subset C \subset A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G G A A G G$

A A G GAAAAGGAAAAGGGCCCCAAAAGGGGGGGGAACCAACC G G A A A A G G A A G GAAAAAAAAAAAAACCAAGGGGGGAAGGAACAC A A A A G GAA $A \operatorname{G} G \mathrm{G} C \mathrm{C} G \mathrm{G} C \subset A A G G A A G G G G G G G G A A C C A A C C G G$ AACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG G GAAGGAAGGAAAAGGCCAAAACCAAAAACTAGGGGAAAAGA CAGGAAGAGGGGGGAAGGGACCAAGGGGGGCCAAAACAAAGG C C G G G G G G A A A A G GAAC A A A G GAC GAGGAAAGGGAGAAAC G G A A G G G A G G A A G G G G G G G G G GCC $C$ G G G G G G C C A A A A A $\mathcal{A} A G G G G G$ GAAA $A$ A A A A A A A A TAA $A \operatorname{AGGGGAAGCAGAATCAGAAAGAACAA}$ AAGAAAGAAACCAACCTAAAGGAGGGCAAGAAAAGGAACCGG G G G GCATTGGAAAAAGACCCCCAAAGAAAGTAAAAAGGGATT A A ACAACCAAAAAAGAAGAGAAGGGGGAAAGGAGAGCAGAAG A A A A A G G G A G A A A GAGACAGGGAAGGGGAAGGAAAACAAGAA A A G G G G A A G G G GA $A \operatorname{ACA} A G G A C C A G G A A A A A C C A A G G A G A A A A$ G GAAAAGGGGCCCATAAAAAGAAGGAGAAAAACCAAAGAGAA G GAACAAAGACACACCACCAAGCCGGGAAGGAATAAAAAGGA A A A A G G G G A A G A G G GAGAGGCCCCGGCGAGAGGGACAACA G G G G G GCCAGAAGGAAAAAAGGGGGGAGACACAAGGGGCCGGGG $G G A A C C C G A G G C G A G G G G G G G A A A A G G G A G G G G G G B A A G G G G$ A A A A C A A A C C G A A C A G G G A A G G A G G A A T G A GAAA A A G G G G A C AGGGGGCCACGGGGAGGGAAAAAAAGAACAGGAAAGGAGGAA AAGGGAGGCCGGAAAAGGAAGGGAGAAAGAGAGGGGAAAAGG C CAGGAAGGAGAGGAAGGAAAAAAAGACAAGGAAAAAA GGGG GAAAAAGGGGAAGGGAACGAAGAGAAAGGGAGGAA GAGGGGA CAAAAAAGAAAAAACCGGAGAACCGGGGGGAGAAAAAAAGGG A A G GCGGAGGACGGAGAACCCCACAGGGAAAGGAAGGAGGCC GAAGAAGGGACCAAGGTTAAAAAGAAGGGAAAAACCGGGGAG A A A A A A G ACGAACCAGGGAAAGGGAGGAAGGAAAAGAACCGG
 G G TAACAGGGCCGGAGACGGAAGGGGCCGAGGCCGGGAGAAA A C C A G G A A C C A A A A G G A G A G G G G A GATTXAC GAGGGAGAAAAA GAAATAAGAGAAAAGAGCGAAGAGAACAAAACAGGGGGAAAA G G G G A A A C G A C C G G G G A A G GAGGGAAGGGACCCCGAA GAAA G A A G G A A A A A GAGAGAAAGCAGGAAAGAGGCAAGGAAGAAAAG A GCCGGGGGGAAAGCCAAAAGGAAAACCAAAACCAGAGAGAA GACCGAGAGAACACAGCAACCAGGGGAGAGGGGGGGGGAAGAG G GAAAAAACCGGAACAGGAAGAAGCCGGCCGGGGGGGGAGAA
 GAGGGGAAGGAAAAAAAAGAAAGGCAGAGGAGAGAAGGAGAG A A G GAACAAAGGGGCCCCGGCCAAAAGGAAAAGGAAAAAAAA $G G A A G G G G A A C C G G A A G G C C G A G G G A C C G G G G G A A G G G A A G A$ A G G G A A G G A A A A G G A A GACCAAGGAACCAGGAGGCCACAGAA $C \subset A A G G C C A A G G C C A A C C A A G G A A G G G G A C G A G A G A G G A A G G$ ACAAGGGGAGAAAAAAAAGGGGGGAAGACAGGCCGAAAGAAA A A G G A A G G A A A A G G A A G G A A A A A A G G G G C C A A G G A A A A G G A A AACCAAAACCCCCCAAAAAAAAGGAAGGGGAAGGGAAAAAAG G GAA A GAAAAGGGGAAGGGGAAAAAAAAGGAAAAGAAAGGAA AAGGCCGGAACCAAAAAAAAGGAAAAAAGGGGAATTGGGGAA G GAA $A \operatorname{GAA} A G G G A A A A G G A A G G A A A A A A G G A A A A A A A A G G A A$ C C A G G G A A A A G GAAAAAA $A \operatorname{AGGGGGAGGGGAAAAAGGAAAGGAG}$ G GCCGGGGGGAAGGGGCCAAAAAAGGCCGGAACCAACAAAAA G G G G A A A A G G G GAAAAAAAGGAAGGCCGGGGGGAAAAGGAAGAG G G G G G G A A $\mathcal{G} G \operatorname{GGG} G \mathrm{G} A A A A A G G G G G G A A A A G G G G A A A A G G A A G G$ G G G GCCGGGGGGGGGGGGAAGGAAAAGGTTGGAAAAGAAAAA G G G G A A G G G GAACCGGAAGGGGAAGGGGAAAACCAAAAAAGA G G A A A A G G A A A A G GCCAAGGGGGGGGAATTAAGGAAAAAAAA AAAACCAAGGAAAAAAGGGGAAAAGGAAGGAAGGAAAA GAAA C C A A G G G G A A C A G G A A C A G GAA A G A A A A C GAAA A A G G G G G G A $G G A G C C G G C C A A G G A A A A A A A A G A G G G G G A C A C A A A G G A G A A$

G G G G G G C G A A G G G G G G G G G G A G G G A A GACAAAGGAACC A A G G G GAA A GAAAAAAGGGGAAAAAAAGGAGGAAGGCCGGGGAAGA ATAAAACCCCGGGGGGGGAAGGCCAAAAAAAACCAAGGATAG GAAAAAGGGGAAAAGGAAAAGGAACCAAGGGGGGAGAGAGGG GAGGTTAACGGGGGGGAAAAGGGGCCGGAGAGAAGGGGGAGG G GACGAAAGAGGCGGGGGGAAGGGGGAGGGGAGAGACAAAAG CAA $A \operatorname{G} G A G A G A A A G G G G G A G G G A A G G G G A T A C A G G G A A G G A A$ G GAAGAGGCAAGAGAGGGGGGACCGGAACCAGAAAAAAGGAA AAAGGAGGACCAGAGGGAACCCAACATTCCGACCGGGGAAAA AACAGGGGGGGAAGAGAGAAAAGGGGGGGGCCGAAAAAGAAA AAAAAAAAAAGGCAAACAAAAAAGAAAAGAAAGGAGGGEGAA GAAAACGGACGATTAAAAAAAACCAAAAAGGGAGGAGGAAAA A A A ACCAAACGAAGCCGAAAGGCCGGAAAAACAAGAAAGGAG A A C A A A C A A A A A A A A A A A A G A G A A A A A A A G C A A A G G A A G G A A A A G GAGCCCCAAAAAAGGAGGGAAGGGGAAGGAGGGGAGGAG $C G C C G G G G A A A A G G G G G G G G A A G G G A A G A A A C A A G A G$
G G G GACCAAGGGGAAGGAGCCGAGGAAGGGAAAAAAGAGAG A A A A A G G G A A G G G G A G A A A A G G C C G G G G G G A A G GCC G G A A G A A GAGAAAAGGGGAGGAATCCGAAGGAAGAATTAAAAGGAACC ACAGAAGGAAAAGGAAAGAGCAGGAGGAAGAAGAAAGAGGAG ACAAGGAGCCGAGGCAGAAAGGAGAAGGCCAGAAAGACGGGC G G GAAAAGCCAAGAAACAAGAAAAAAAAGGAACCBACCGGCC CACCACACGGCAGGACGGGGAAGGGGGAAAACCCAAAAAGAG $G G C C A A A A A A A G A G G G A G A G G C A A C G G G A A A G G G G G A A C C B G$ G G G G A A A A A G C C A G A A GAAA A G G G G G CA $A \operatorname{GGGGGGA} G A C A G C C$ G G G A A A G A A A A A A A A G G GAATTGGAAAAGGAAGGGGGGACA G
 C C G G G GAC G GAAAAA A G GAGAAAGGGAAAAAAAA $A A A A G G G G G G$ C CAAA $A \operatorname{AGGGGAGGGGGGGAAGGAAGGAACCGGGGAAAA} G G A G$ ACAGAAAAGGCACAAGCAGGAAAGGGGGAGGGGAAAGGAAGA A G G A G G G G G G A C G G G A G G C C A C A G C C C C A G G G A A C C G G G G C A G GAAAAACGAGAAAGGCGAAGGCCAGAAAGGAGGGGAAAAGA A G GACCGGGGCCAAAAAGAGGAGGCCAGGGAAAACCAAAGAC A C A A A A G A G G G A G A G G A C G G G G A G A A G A C C G G G A A A G G G G G A G GCCGGGAAAAAGGGAGGGGACGGAAGAAGAACCGGAGAAGAG
 AAAA A G G GAGGAGGGACCGGAGCCAAGGAAGGGGGAGAGGGG A GAA $A \operatorname{A} A A G G G G G G A G G G A G A G A C G A C C G G G G G G A G G G A G A G$ A G A G A A A G G G G G G A A A G A G A G G A A A G G G C A A C G G A A GA G GAA A A A A C C T A G G A A A A C C G G G GAA $A \operatorname{GAAACGGGAAGAAAAGAGCC}$ A GAA $A \operatorname{GA} \mathrm{~A} G \mathrm{~A} A \mathrm{~A} G A A A G G C C G G A G A A A G G G A G G G G A A G A G A A$ A A G G G G G A GAA A G A A G GAAACCAACCGAAACCGGAGAAGGAA GAGGGGGGAAAAGGGGAACAAGATGAAGAGAGGGAAAAGAAC $A C G G A G G G A A A G A G G G A A C C A G A G G G A G G G G G A G G G G G A G A A$ G G A A A C A A G G G G GACGAAAAACAGACAAAAGGGGAGAA GACC A A A A A A G G ACA G A A A A G GAAAAGGCAAAAAAAGGAGGGAGTT A G G G G G A A A G G A A T A A A C G G G G A A C C GAGAAGAAG G GAAAA A A A G G G G G G G A G G G G GAAACCCCAGGGCAAACCAAAAGAGAGG CCGGCAGACCAACCGGAACAGGCATTGAAGCCAAGGACAGAG
 A A A A A G GACCGGAAGGAAAGAGGGAGAAAACCGGGGGAGGAA G G GAA A G G G GAAGGGAGAGAGAGACAACGAAAGGAGAAAGAA GAAGAAAAAAGAGAGGGGAAAAGGGGGGGGAAGAAAAAGGGG G G T T G GAGGGGGAGGAGGAAGGAAAGAGGAGGAAAAGAAAAA AAGGAAAAGGCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAGG A A A A A A A A G G G G A A G G A A A A A A A A GGGGGGGGAAAAAAAAAA G GAACCAAGGGGGGGGAAGGGGAAGGGGAAAAGGAAAAAAAAA A ATTGGAACCAACCGGGGAAGGGGAAGGAAGGGGAAAAAAAA AAAAGGGGAAGGGGGGGGCCAAAAAAAAGGAAAAAAAAAAGG

G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAGA G GAA A G G G A A A A G G G G G G A A A A G G G GCCGGGGAAAAAA G G A A AAGGAGAGCAAAAAAGAGGGAGGGAAAGAGAGGAAACCACAA G G G GAAAAACAGACCAGGAAGAAAAAAAAAAAAAG GAAGGGG G GAA $\operatorname{G}$ GAAA $A C G A A A A C C G G A A G G A G G A G G G A G G G G G G G A G G$
 G G A A G G A A A A A A A A TACAGGCAGAGAGAGACATTAGGAAAAA G G G G G A G G ACAAAAAACAGGCCGGACAGGGCCAACCCAAAAA
 ACAAAAAAAGGGTTGGCCGGAAAAAAAAAAGGGATTCCGAGA A A G GAA A GAAGGAGGCAAGGCCCCAAACAGGGAACAAAGGGA CAAAGGAAGGAGAAAAAACCAGCCAGAAAAGAAAGAAAAAAA
 A A G G A A A A G G G G C C G G G G G G G G G G G G G G G G C C G G A A G G G G A A A A A A G G G G G GAAAAAAAAAAGGAAAAGGGGGGCCGGGGABAA $G G C C A A C C A A G G G G G G G G G G A A A A G G T T A A G G C C A A G G A A A A$ A A G G A A C C G G A A A A A A C A G G G G G G G G G G A A G G A G G G C C C C G G A G GA $\operatorname{A} G C C C C G A A G A G C A A A A A A A G A G G G A A G G A G G G G A A A A$ G GAAGAGGGAAAGGGAGAAAATAGGGGGAAAGAAAAGGGAAA G G G G A A G G A GAC G G C C G G A G C A A G A A G G A A A A A A A A A G G G G A A G GAGAACGGACAAAACCCCACGGCCCCAGCCGAAGAAG GAA G GCCAGGAGGAAAAAGAGGGAAGGAGAGAAGGGGAACAAGGG G G G G A A A A A G C C G A A A A A G GAA A GAGCAAGAGGGGGAGAAAA A A G G A A A A A A $\mathcal{A} G G G C \subset A A G G A G G G G A A G G G G G G A A G A A G G G G$ A A A G G A A A C G A G A G G G G G G G A A G G G G C A G G A A A G A A A A G A A G A GAAAGACCGAGGGGGGGAACCAGGGGGCAAAAACCTTAAGG G GAACCAAGGAAGAGGAGAGAAGGAAGAAGCAAGAGGAAAGA A G G A G A G G A A A A G G A G A T G G G G A C A A G G A A A G A G G G A G C C G G GAAG $A \operatorname{AAA} A G G G G G A A G G G G A A G G G G A G G A C C G G A G A A G A G G$ $G G C A G A A A G G G G G G A A G G G G G G A G G G G G A A A G G A A A A G A C A G$ G G G G G G G G G G A A G G A A A A A $A \operatorname{GGGA} G G G A A G G C C G G A G G G G G G A$ GAAAGGAGCCAAGAGGAGAAGAAAGGGGAATTCCAAAAAGAG A A G GCCGGGGGGGGAAGGGGAGAAAGAAGGGAGGAAGGGGGG A A A A A A G G A A G A A A A A A A GAGGCCAGAAGGGGAAAAGAAACC G G G G A A A A G G A G C A A A A A GAGGGGAAGGGGAAAACCAA G G G A A G A A A A G G A G A G G G G G A A A G A G A A GAG GAAAA A G G G CA G G A A G G GA $\operatorname{l}$ GAA $A \operatorname{GAA} \mathrm{~A}$ GAAGAAGAAGGAAGGCCAGCCGAGGGGGA A A G GAAAGAGGAAGGAAGAAACAGGAGCAGAAGGGGAGAGAAA G G A A A A G A A G A C G A GAGGAAAGAAAAAGGAGAAACCTXGAGG A A GA $\operatorname{A} A A C G G G G A G G A A A A A C C A C G G A G G G A A G G A A G C A G C C$ AAAAGGAAAAGGGGAGGGGGAAGGGGAAGGAAAAAAGGAGAA A A G G A A A A A A A G G A A G A G G G G G G A G G G A A C G C C C A C C C A A G A $A C G A G A G G A A A A A G A G C C G G A G A C A A G G A A G G G G G G G G A G A A$ T T G G G G A A G G A A A G G G G G A G G G C C C C A G G A A G G A C C A G G G G A C C G GAGAAAGCCGAAGAACCGGGAGAAGAAACAAAAGAACAG A G A T A A C C G A A A A GAA $A \operatorname{GGGAAGAGAAAAGGAAAGAAGGGGCC}$ A A A A A A T T A A G GA G G G G A A A A GAAAAAGGAAGGAGCGA GA GA GAA A A A G GAGAAGAAGAGCCAAAACCAAAAACAAGGGGGGGA G G G GAA A G G G G A A G G G A A G A A G GAGGGGGGCCAGGGAAGGGA TACAAAAAGAGGGGGGGGGGAAGGAAAAGGAGAGAAABAGCC AACCGGAGCAGGAGAAAAGAAGGGAGGGAGGGGAAGCCGGAA G G G G A A A A A G A A G G GACACAAGGGGGGGGGAAAGACAGACA G G G A G A G G A A A A A G G G A A G G G G A A C G G A A G G CA G G A G C C A A A G AACCAGGGGGAAGAGGCAGACAGAGAGAAAGGGGCAAAAAAA A G GAGACAGAGGGACCAAGGCCGGGGGGCCAACGGGCCGAGG G G A A G G G G A G A A GAGGAGGGGAAAACCCGGCAAAAAAGAAGG G G G G A A A A $\mathcal{A} G G G A A G G G G A A A A G G C C G G G A A A G G A G G G A A G G$ G G G G G G G G A G A G A A A A GAAA A GAAA A A A A C G GA GAAC C GAA A AAAAGGGGCAAGAAAACCAACCAAGGAAGGCCAAACAAGAGA

GACCGGGCACGGGAAAAGGGAGCAAAAAGGAAAAAGAAAAAA G G GAACACGGAGGAAAAAAGAAGGGGAAAAGGACAAGGAGAA GAGAGGAGGAAAAAGGAGAAGAAAGAGGTTAGAAAGGAAAGG G GAAAGAAGGAAGGAAGGAAGGAAGGGGAGAAAGAAAAAAGA G G G GA GAA A GAAAAACAACCGGCCAGACAAAAGAGGGCACGB A A A A A A G GAGGAAAAGAGAAAAAAGGCCAAAGGGAACCAGAG A A A G G A A G G G G C A G A G C C G G A C A A G GAGGGGGGG GAA GAG G G CAAGAAAACCGGGGAGGGGAAAAACCGGGAGGAGAAAAAGGG A G A A G A A A A A A GA G A A A A A T G GAAAAGGGAGGGAGAAAGGGG AAGAAAGAGGAGAACAAGGAGGGAGGAAAAAGGGGGAA GAAA A GAA A GAAA $A \operatorname{A} C A G G G A A A A G A A C A G A G G G G G A G G C A A A G G A A$ GAACAACCGGGAGAAGAGGGGGAGAAAAAAGGCCAACAAACC $G G C C G G G A A G G G C C G G A A A G G A A G A A G G A A C C A A A C C C A A G G$ A A GAACAGAGAAGGAAAGGGGAGGGGGGAAGAGAGGCAAACA AGGCCAAATAGGAACGGGAACCGAAAGGGGGAAGGGAACCGG $G G C C A G C C G A A A G G A G G G G G G G G G C C A C A C A C G G G G A$
GAAA A $A$ GAA $A \subset C A A G G G G A A G G G A A A A A G G A A G G C A G G G G G G$ A A G G G G A G G G A A G A GAGGGAGGGGAGGGCCGGAGCCGAAAAA AAGGCAGGGGAGAAGAGGGGAGAACCGGAAAAAAAAAGAAAA A A A A G G G G A A G A A G G G C C G A G G G A GAGGGGGAG GA GA G G A G G AAGAAAAAAAGAGGGAGGACCCAGAGAGAGAAAAACGGGAAG A GAGAGAGAACCGGAAAGGGTTAGAGGGCCAAAAAACCAAGAA G G G G G G G A A A G G G A A A G G G G G A A G G G G G G A A G G A G G A G A A G G
 GAGACCGGGGGAGGAAAAGGAGAGGGAGGGAAGAAAGGAACC G G G G G GAAAAACGAAAAGACAAAAGGAAGAAGCAGGCCAAGA A A A A G GAA A GA A G G G G GAGGGGGGACAGAGGAGAGGGCAAAAA
 G G G A G G G G T T G GC C G G G G G G G G G G A A A GAAC A A A GA G G A A G G A GAGAAAAGGAGAAGGGGAGCAACGGAACAAAGGCCGGACAA
 G G G GAA A G GAAAAGAGAGCAGAGGCCGAGAGAAAGAAGGAGA GGCCAAGGGGAAAAGAAAAGAAAAGGGAAAGGGGGGGAAAAA A GACAAGGAAAACCGGAGAAAAAAAAGGAAAAGGCACAGAAA
 C C G A G A G G G G GAGGAAGGGGAAGGAAAAAAGGCCGAAAAGAG A A G G GAAAAGAAGACCAGACGAGGAAAAGGAAGGAAAGACAA $C \subset C C A A G C G G G G A A A A C A G G A A A A A A G G G G A A T T G G C C A A C C$ G GCCAAAAAAGGGGAAAGGGGGAAAAGGAAGAGGAAAAAGAA
 $A C G A C A A A G G C C A A G G A A A A A A G G A A G G A A G G C C G G C C A A G A$
 G G G GAAAAGGAAAAGGAAGGCCGGCCGAAAAAGGAGGGGACA
 ACAAGAACAGTTGGAAAGGGGACCCAGGGGCCCCAACCAGGG A GCCAGGAAAGGAAGGGGAAGCAAGAAAAAATACAGAAGGAA A A A A A G G G G G G G G G C A A A G A A GACAGAGAAAAAAG GAACACA C CAAAAGGACAGGGGGAAGGCAGAAAGGAAACAGAGGGAAAA AAAGAGGGAGGAGAGGGGAACAGAAACAGGGGGGAGAAAAGA GAGAGAAGGAGAGGAGAACAAAGGCAAAGACCAAAGABCAGG A GAA A A G G A A G G G GAAAAAGGGAAGGGGAAAGAAGGAA GAAA G GAAGAGGACCAAAAGGGTTGGACAAGGGAAACCCCGGAAAA A G A C A G G A C A A A G G C C C C A G A G C A C C A G C CACA G A G A A G G G A
 G G G GAA $A \operatorname{GAA} \operatorname{A} G A A G G G G A A A A A A G G G G A A G G A A G G A A G G A A$ G G G G A A A A G G G GAA $A \operatorname{G} G A A A A A A A A A A G G A A G G A A G G G G A G A A$ C C G GCCGGAAAAAACCCCGGGGGGAACCGGGGGGAACCAAGB G G G G G G G G G G A A A A A A A A A G G G G G G G G A A A A A A A A G G A A G G A A AAAACCGGAAGGGGAAGGAAGGGGGGAACCGGAAAAGGGGGG

A A A A C C G G G GAATTGGAAGGGGAAGGGGGGAAAAGAAAGAAA
 G G G A A A G G G G A A G G A A A G GAGGCCAAGGGAAAGGGGAACCAG GGAACCAGAGAAAGACGGAAACAAGGGGAAAAAAACAAGAAA G GAA $\operatorname{G} A A G A G A A G G A C A G A A G G C C A A A G G G A A A G A C G G A G G A$ A A GACA $A \operatorname{A} A G G G G G G G G A G G G A A G G A G A G G G G G A G A A A G A G G G$ A G G G G GAA A A C C A A A G G A G GA GAACAGGCAAGAACCGGGGGG A G G A A C G A CAGGGGCCGGAAAAGGGAGGCCGAGAAGAGAGAG GAAGGACCAGGACCGGGGAAAAGGAAGGGGAAGGGGGGAAAA GAGGCCGGAGAAACAAAAGGAAAAGGAAAGCAAAGGAGG GAA GAAAAAGGGGGGAAGGAAGGAACCGACAGGACAAAGGAAAAA G GCCGAACAAGGAACAGAAAAAAAAAGAAGGACCGGGGAGAA GA $A \operatorname{GGG} G \operatorname{GA} A A G G G C A G G G G G G G A G A A C C A A G G G G C C G A G A A G$ A A A T G G G C G G G G G G A A A A A A G G A C G GAGAAGGACAAAAAA A A G GAGAGAAGGGAAGAACCGGGGCCAAGGGAGGAAAAAACCCC GAGGGGAGAGGGGGGAGGGGAAGGCCGAAGAGAAGGGAAAAA A A A A A ACCAA G GAAAAAGAAAAAAAGGGGGAAGGGGGAACAA G G G G G GCCAA G GAA A GAAACGGGGAGAGCCGAGACCAGAAAG
 A GAC GAAAAAGAAAAAGAAGAAGGGGGGCCAACAGAAAAAAA G GAGGGGGAAAAAAAAGGAAGGGGGACCGGAAAAAGGGAGAA A G G GAACCAAGGGGAGAGAGGGGAAAGGGGGGAAAGAGAAAG A GAAAAAAGGCCAAAAAGAAACGGGGGGGGAGAGGAGAGAAC GAAGGGCAAAGAAGGGGGAGGGACGAACAGGAGGCCGGAAGA A G G GCCCCAGAGGGAACCAGAGAAGGGGAAAGACGAAGAAGB G GCCAGGAAGGAACAGAGAGACGAAGGGCAAGAGGAGGCAAA
 GAAGGGGGAAGAGGAGAGAAGGGGGAAAAAAGGAGGAAGAAA A A GAAA A A A GCCGACAAAGGGGAGGGCCAGAAAGGGAAGGGG $A A C C A G A A G A A G G G G G A G A A A G G G A A A A G G G G A A G G G G A A B A$ GAGGAAAAGAGGAAGAGGGGGGCCGGAAAAAGGGAAAAGAGA A G G GAGCAGGAAAAGGAAGGGAGGAAAGGGAAAAGGAAGAAA A A A A A GAAAAAAGGAAGAGGAAGGGAAGAGAAGAAAGAAGGG G G G G G A G A G A A A A A A A A C G G G G G G A C G G G G G G G G G G A A A A A A GACAAGGGCAGGCAGGAAAAAAGAGGGAAAGGGGGAAAAAAG A GCC C G G G G A A A A A G G G A G G G G A G G A A A A G G G G G G G G G A A A $\mathcal{A} G$ A A A A A A A GAAGAAAAGAACAAGGGCCGGAAGGAAAAAAGGAG G GAA $A \operatorname{GAA} A G A A A G G A A G A A G G G G A A G G G A A A A A G A G G A A A G$ GACAGGAAGGGGAAGGAAAAAGCAGAAAAGACAACAGGACAA GAGGGGCCAAAAAGGAAAAAACGGGAGGCAGGAGAGAAAACC AAGGAACAGGAAGGGAGGAAGGAAGGAAGAAAGGAAAAAGAG G G G G G A A G G G G G A A G G G G A A A G C C A A GAGAGAGGGAA G C C A G GAAAAGCACCCAAGAAAGGGAGAGAAAAGGGAGAAAAAAACC A A G G G GAGCCGGAAACGGAGCCAACCGAGGAGGAAAGGGGGG GAAGAAAAGGGAGGAAAAGAAGCCAGGGGGAGAAAGAGAAGA G G A A G A A A G A T TAA $A \operatorname{GGGAAGAAGAGGGGAAGAGAGACCAAAA}$ $A C G A G G A A G G G G C C G G G G C C A A G A A A G G A A A G G G A A G G A A A A$ G G G GAAAACCGACCAGAGAAGGACGAGGACGGAAAAAGAAGA G G G GAGTTAGAGCCAGGGAACCGACAACGGGAACAGGGGGCA G G G G A A A A A GCAGGAGACGAAGAGACGAAGCAAGAGACAGAG GAAAAACCAAAGAGGAAGGAACAAAACAACAAGAGGCAGAAA $G G A A G A G G A C A G A A G G G A G A G G G G G A G G A G G G A A A A A A G G A G$ A A G G G G G G G G A A G G A A A A G G G G G G G A A G C CA A A A A A C C A G G A AAAAGGGAGAGGAAAGAGAAAAAGGAAAGGAGGGAGGAAGAA GAAGAAGGAGACGGGAAGGAAAGAAGGGGGAGACAAGAAGAA GAGGCCGGAAGAGGCCAAGGCCACGGGGGGGGGGGGGGAGGA G G G G A C A G A C A A GAGGGGGGGGAGAGGAGAAACCAAAAAAAA G G A A G G G G G G G G A G G G G G A A G G A G G G C C C A A A A A A A G G G G C A $C C G G A A A G G G G G G G C C G G A A A A A A G G G G A A A A A A G G A G A G A C$

GAAAGGCCAGGAGGGGAAAGAAGACAGGGGGGAGAAGAGAGA A A GA $\operatorname{A} G A \operatorname{G} C A A C A G A A G G G G G G G A C C A G A A A A G G C C A A G G G G$ AAAAAGAACCAAGGAGCCAGGAAGGAACGGAAAGGGGGGGCC
 A A A GAGGGGGAGGAGGGGGGAGAAGGGGAGGGGGAACAAAGA
 A A A A G G G G G G A A G G G G G G A A G G G G A A G G G G C C C C G G A A A A C C CCAAAAGGAAAAGGAAAAAACCGGGGAAAAGGAAGGAAAAAA A A A A A A G G A A G G C C G G G GAAGGGGAAGGAAAACCAACAAAAA A A G G G G A A G G G G G G A A G G G G G G A A G G G G G G G G G GAAAAAAA C G GAAAACCAAGGGGAAGGGGGGAACCGGAAGGAACCAAGGGG G G G GAAG GAAAAAAAAGGAAAAAAAAGGGGCCGGGCCAGAA G G G G A A A A A A G G C C G G G G A A A A A A A A G G G G A A A A G GAA G GAA G G G G G G A A A A A A A A A A C C C CAAAAAAAGGAACCGBAAGGAAAA C C A A G GAA $A \operatorname{GGGGGAACCGGGGAAAAAAAAGGAAAAAAGGTT}$ GGCCAAGGGGAAAAGGAAGGGGAAGGGGGGAACCGGC
C G G G G A A G G A A A A A A G G G G G G A A A A A A A A G GAA A C A A G G G G A ACCCCAAGGAAAAGGAAAAGGGGAAGGAAGGGGAAGGGGGG A A G G G G G G G G G G A A G G A A C C G G G G G G G GAA A GAA G G G G A A T T A A G G G G A A G G C C A A C C A A G G A A A A A A G G A A C C G G A A A A A A G G AAAAAAGGGGGGAAAAAAAAAAAAGGCCAAGGCCGGGGAACC A A A A G GAA A G G G G GAAAAAAAAGGGGGGAACCAAAAGGACAA A A A A G G A A A A G G G G G G G G G G G A A G A A A GAA A G G A G G A A A A G A ATAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCBAGAAAAC $A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A G A A G G G G G G$ G G G G G G GAGGCCAAAAAGAAGGGGAGGGCCGGAGAGAGCAGA AAGGAGGGAAAAAAAGCCAGGAGACAAGCCGGAGGGGGAAAAA
 A A G G C A G G G G G G G A G G A A A A A A G G G G C G G GAGAA G GAA GAC C G GAGGAAGAAGGAGGAAAAGAAAAAAAAAAAACCGGGGAGAA AA G GACCCAGAGAAGGGGCCGGAAGGAGAAAGGGGAAAAAAG AAAAAAAAGGAGGAAAGAAAAGAGAGAGAGACGGAGGGGGAC
 AC G G A A A G G G G G A A A A G G A G G G C C G G A C A G G G G G A G G G G A G G G G G G G A A A G A G G G G GAA A C C G GCC GACAGGAAAAGAAAACAA A G A C G A A A G G A A A G G A G G G G G G A A C C G G A A C C G G A A A G A G C C AAAAACAGCAACCAAGAAGGAAAAAAGGGGCCAAGGAACCGG AAAAGGCCGGCCACCCAGCAGGGGGGAAGAGAAAAAAAAAGA A A GAAAAGGGCCAAAGCCCAGGAAAGAAGGAGGGAAGAGGAA
 $A G C A G G G A G A A A A G A A A G A G A A G A G G A A A A G G G G G G G G A A A A$ A A T T G G A G A A A G G G A A G G G G G G A A A A A A G G G G C C C C G G A G G A A A A A A G G GCCACGGGGGGAAGAAAAGAGAAGGGGAAAGAGGG G GACCCAAAAGAGGAGCAGAAACCAGAACCAAAGGGGGAGAA
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 AAAAA A A A A $A$ ACCGGAGAGGGGAGAGGAAGGGGGGAAGAAGAG A A G GCCGGGGCCGGGGAATTAAAAGGAAGGGGAGGGAAAAAA G G GAAAGGGGGAAAGGGGAACCAGAAGGAGAAAGGGAGAGAG AAGGGGGAAACCCCAAGGAAAAGGGAGGGGAAGGGGAGAGAA A A A A A G GAGGAAAAAACCGGTTAGACCCAGGGGAAGGAAA GA ACGGAAAAGGGAGGAACCAAAAAGCAAGGGGGAAAACAAGGG G G A A A A G A A G G G G G G G A A G G A A A A A G A A G GA G G GAA G G C C G G AAAACCGGGGAAAAAGAGCAGAAGAAAAGGAACCAACCACCC

G GAGGGAAGGAAGACCCAAGGAAAGGGAAAGGATAAGAGCTT A A G GAA $A \operatorname{GAAAAACCACAGAGAAGGAAGGTTAAAAAACCGGAA}$ A GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAGGAGAA
 $C C G G A A G G A A G G A A G A G G G G C A A A A G A A A A G G A C A C G A A G A G$ ACAGAGACAAGACCAACCAAGGAACGAGAAACGGGGGGGGCC G G G G C A A G G G G G A A G G A G G A G A G A G G A A G A A G G A G G A G G G A G AAAACCGGGGGGAAATGGAGAACACGCCAAAAAGAAAAAAGG
 G G G GAAGGAAAAAGGGAGCCCCGAAGCCGAAAGGCCAAGAAA A G GAAAAAGAGGAAGGAGGGTTAAGAGGAAGCCCGACAAAAAA AAACGAAGGAGGGACCAAAGGGAGGGACGGACCAGGAACAGC AAAAACGAAGGCAAGCAAGGAAAAAAGAAGGAGAGGGGGGGG GACAGGAGGACCGACAAGGAAGCCGGAAAGGAGAGACAAGAA $C \subset C C G G A A C A A A C C G G C A A G G C C A A C C C A G A A G G A A G G C A$ $C \subset A A G G G G G G G G G G G G C C G G G G A A A A G G A A G A G G A G G A C C A C$
 G G A A G G G A A A A A G G A A G G G G G A G G G A G A G G G G G G G G A A G G G A $C \subset G G A A A G C A G G G G G A A A G A G G G G G G A A G G C A A G G A G G A G A A$ G GAACAGGAAAGAGAGAGAGGAGGAAGGTTGGAACCGGAAAA GAGGGGGGAAGGTTAAGGAAAGAAGGGGGGCCAAGGGGGAAA A A G G G A GAGAAAGAAAAAAGGAAGAGAGGAAGAAAAAGGGAA GAAAAGAGACAAGGCCAAAAAGGGGAAAAGAACCGGAGAGAA C C G G G G G G A A G G G A G G A A A A A A A A GAGAAAACAAA $A$ A A G G G G G G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A A G A C G A C C G G A A A A G G G G G A A A G A G G A A$ $A C C C G G A A G A G G G A G A G A A C G G G G A A G G A G C C G G A C A A A G A A$ GACCGGGACCAAAGGAGAACCCCCGGAAAAGGAAGGGCACAC G GAAAAAAAAAAGGAGGGAAGGGAACAAGAGGACBGCAGGAG GAGGACGAGGGGAGAAGGGGGGGGGGAGGAGGGAAGGAAAAA A GAA A GAGAAAGGGAGGGGAAGGGAAAGAAAAGGGAAAAAGAG GAACAGGGAAGAAAACAAGGCAGGAAGGGGAGGGAAAAAGGG AAAGGGGAAACCAAACAGGAGAGGAGCAGGGGGAGGAAACGG A GAGGGGAAGAGGAAGAAGGAAAAAGGGAGGAAAGGAACCAC G G G G G A G G A G G GCC $C$ G $\mathcal{C} A G A G G G G G A G A G C A C C G G A A A C G G A G$ ACGGCCAGACGAAACCGGAGGGAAGAAGCCGAAGAGGGAABAA AAAAAACCGGGGGGCAGGCCAAGGGGCCAGAAGAGAAGAAAA AACAAAGGAGAGGAGGCAGGGAGGGGAAGGAAGGGGAAGGAA A GAA A G G GCCAAAAAAGGGGGGAAGAAAACAAGGGGGGAGAAA
 G G A A C A A A A A A A G G C G A GAGGGAAGGGGCCAGGAAAA GAGAC $A G A C G G A G G G G G A C G G G A G A G G G G A G G G A A G G G G G G G G G G G G$ G GAGAGGAGACAAGACGGGGGGAGGGAAAAAAGATAAA GGGG G GAAAAAGAGAGAAAAGGGGGGAGAGGAAAGGGAAACAGAAG GAAGAAAGGAGGAGGAGGAAGGGGGGAAGGAAAACCGBAAAA G GAACCGGAAGGCCCAGAGGGGCCAGCCAGGGGGCAAAGGCC G G G A A A G G A A C C G G G G G G G GAAAAAAAGAAAGGGGGAAGAAAA GAGAAGGAGAAGGGAAAAACGGAAGGAGAACCCAGACCAAAA G G GAGGGGGAAGAAAAGGCAAAAGGGGGAAAAAAAAAAGGGG AAAAACAGAGGGACATGGAATTCCAAGAAAGGAACGCAAGCC
 AAAGGGGAAAGGAGAGAAAGGGAACCACGGAGAAAAGGAGAG G G G G G G GA A A G G GAAAACACGGGAGGGGAAAGGGGGAAAAAA G G A G A GA $\operatorname{A} G \mathrm{G}$ GAACCGGGAAGAAAAGAGAGGAAGGCCGAAGAC $C \subset C A C C A A G G A A A G A A A G C \subset C C A G A A G A G A G A A A C G G A A A G G$ A G G G G A A G A A C CA $A \operatorname{GCC} C A A G G G G G A A A A A G G A A A A A G G G G G$ A A G G A A G A G G A A A T G GAC GAGAAACAGGAAAAAAGGGGCCAG AAAGCAAAGGAAAAAAAACCAAAAGGGAGGAAGGAAAACCAC A GT T T T G G A A G A G G G G A A A A G CA GAAGGAGCAGAACAGAA GA $C \subset G G A A A A A C G A A G A G A A A G G A G A A A C C G G A A C C A A A A A A A A$

AAGGGGAAAGAGAGAAAGGGGGCCAAAAGGAAACGGAAGAGA GAGGAAAAGGAAAAAAAGAGAAGGGGGGAGAAACGBAAGAAA A G G G GAGACCAAGGGGACAATAAAGGAAAAAAAAGAAAAAGG AGGGAAAAAGTTGGGGAAGGAAGAAAGGAAAGGAAAGAAAGA AAAGAGGGAAAGCCGGGGAAAGAGGGAAGGGGAAAAGGAGAA G G G A A GAACCAAAGGAGGGGAAAGGGGGGGAGGGAAAAGAAG GAAA A A G G G G GACCGGAGAGCAAAGGAAAAAAAGAACAGAAG G G G G G GAGAGGGAAAAGGAGAACCAAAAGGGAAACCAAAAAG GACCAACCGAGAGAGGAGAAGGGGGGAAGAGGCCAGAGAGAG A GAGGGAAAGAAAAAAGAGGGGGGGAAAAAACAGGGGGAGGG A GCCAGAAGGAGAGAAGGTTAACCAGGGACGAAGCCGGAGAA G A A A A A A A A $\mathcal{A} G A G G G G G G G A G A G G G G G G A A C C G G C C A A G G A A$
 $A G A A G G A G G G A A G G A A A A A G A A A A A G G G G G G A G G A A G G G G G G$ G G G GAGAGAACAAAGGAAGGGGAGAGAGGAGGAAAACCCAAA GACCGGAAGGCCCCGGGAAAAACCAAGGGAGGGGAGG
GAGCCAAAAGGGGAGGAGGCCAAGACCGGCCGGAACAACCC G GAGGGCAGAACGGGGAAAGACAAAAGAGGAAGGAAAAGGAC A A G G G G G G A G GAGGAAAGGGAAAGAAAGGAGGGGAAGA GAAA
 G GCCGGAGAAAACCGAAAAAAGAAGACAGGGAGACAAGATAG G GAAGGGGACAAAACAAAAAACGGCCCACAGAGAGGGGAAGA A G G GAGAAAAAAAAAGGGAAAAGGGGGAGGGGACAGAAAAAG GAAGGGGAAAGAGGGGAAGGAAGGGGGGGGAGAAGAAGCACA $G G A A G A A A G G G G A A A A G G A A G G A A C A G G A G G A A A A A A A A A A G$
 GAAAGCGGAAGGGGAAAAAGAAGGGGACAAGGGGGGAAAAAA A A A A G GAA $A$ A $A \operatorname{G} G A G A A A A G C C G G G A G G A A G A A G C G C C A G A A$ G G A A A A G G A A G A G G G GCAACGGGGAAGGCCAAACAGACAGGG GAAAGGGACCAAGGGGGGGGTTGGGGAAGGCCAAAACAAAGG G GAGAGGAGAAAAACAGAAGGGGAGGGAAGGGGAAACCAAAA $G G C A G G A A A G G G A G A G A A G A A A A G A A C A A A A A G A G C G G G G G G$ $A C C C A G A G G G G G A C A G G G A A G G A A G G G G A A A G G A A A A A A C B G$ A A A A A ACCAAGGAGAAAAAGGGCAAAAGGAAAAGAGGGTTAA GAGGAACCGGAGGGGCAGAGGGCCAACAGGGGGAGGAACCAG
 G G G GAAAAAAAAAGAAGCAAAGCCCACAAGGGGGAAAAGAAG G GAAAAGGGGACGGAATTGAAAAAAAAAGGGACCAGAAAAAA CAAAAAGGAGGGCAGAGGGAAAAGACAAGGGAGGGGAAACGG G G A A A C G G A GCCAAAAAGGAGCCCAAAGCAGGCCCCGEAGGG G G GAGGCCAAAGAAGAGGCAAAGGGAAGAGAGAGGGAAGGCC GAGGAGACAAGACCGGGGAAGGGAAAAGCCGGAGAGGAAAGAG C C G G G A G A A GA GAAAAGGCCGGAAAACCAAAAGGAGGGAGAA $G C \subset A A G G A C C A C G A A C G G G G G A A A G G A G G G A A G G G G A A G G G G$ GA GAAAAAGGGGAGAAAACCAAAAAACGAGAATAGGGGAAGAG A A A A A GAAAA A A A CAAAA A A GCGGGAAAAAGGGGGGAGAGAC G G G G G GCCGGGGGGAAAGGGGAAAGGGAGGGGGGAGAACAGA G GAA A GAAAGAAGAACGGGGGGGGAGAAAAACAAGGAAAAAA G GAA A G G G G G G G C A G G A A A A GAGGGAGGAAAAGGGGGAAGTT A A G G A C G G A A G G G G G G A A G A A A G GCAGGGGCCGAAAAA G GAA
 $A A C C C C G A A G A G G G A A A A C C C C G A A G C C A A G T T A A G A G G G G$ G GCCGGAAGGAACAAAAAAAGACCAAGGGGGGAAGGGGAAAG AGACAGGGACAAAAAAAAAAGGAGCCGGGAGGAAAGAAGGGG $A G G G G G G G G G C C G C G A A A A A A G A A G G A G G A G G C C G G A G G G G A$ G G G A G G A G A G G G G A A A A G C A G G GAGGAACCCCGBACAGAGGA GAGAGAGAAAGAGGCAGGCCCAAAGGGAGAAGGAGGGGAGCC $G G A A A A A A G G G G G G A A A A G G G G C C G G G G A A G G G A A A G G G G G G$ G GAAAAGGGGGGAAGGGGGGAAGGGGAAAAAAGGAAGGAGAA

G G G GAAAACCAAAAAAAAAAGGGGGGCCAACGGGGGGGAGAG A G G G G G A A A A A A A G GAGGCCAAGGAAGGAAGGAAGGCAAAAA A G G GAA A GCCCCAAAAAAGGGGAACCGAACGGAAGGGGAAAA GAGGGAGGAAAAAAAAACGAACGGGAGAGGGGGGAGGGAGAA GAGGAAGAGGCAGGAGAGAGGGGGCAGGAATTGAAAGAACA G
 GAAGACGGAAAGAAGGGAAAGGGGAGCCGAGACAAGAAAAAG $A G A C G A A G A G G G A A A G A G G G G G G G A C G G G G A C A A A A A A A G G G$ G G G G A A C C G A G GA G G A C A G G G G G G A A G A G A G $11025000-9 \mathrm{GA} G \mathrm{G} G \mathrm{G} A \mathrm{C}$ G GAAGGGGAACGGGAAAAAAGGGGCA AAAGAACCCCCCAAGGGGGGCCGGAAGGAAGGCCAAAAGGAA C C A A A A G G G G A A G A G G G A C C G G G G G A A G A C G G G G C C G G A G G G
 CAAAGAAAGGAAGGCCAGAACCGGGGAAAAGAAAGGGAGAAA C CAACCGGCCAAGGAAGAAGAGAAAAGGGGGGCCGGCCBAAA A G G G G G G G A G G G G G G G G G G G G A A A G G G G C C G A A T A G G A A G G A G G GAGAGGGACCAGAAAAAAAGAACCGGGGGGCAGGAAAGAA A A A A A A A A G G G G G A A GAGGAA GAAGGAAAGAAGGAGAGAGAG CAGAGGAACCGGGAAAAAAAGGAAAGAGACAACCAGAAAAGAG
 AAGGGGAAGGAACCAAGGAAAAAACATTCCAGAGCCAGGGCA AAGGCAAGAAGGAAGACAAAAAGAAAAGGGCAAAACAGAAGG $G G A A G G A A A G A A G G G G A A A A A G A G A A G G A G G G A A A A C C A G A A$ A A GAAA A A A CAGACGGCAGGAAAACAGGAAAAAA GGAGGGGG
 G G G G G GCA C G A A A A G G G G G G A A A C A A A G C A GA GAA G G G C C A A AAAGGGGGAACCGCCGGGGGAGGGGGGGGGAAAAAGAAAAAA A A A A G ACCAGAAAGGGCCAAGGGGGGGGCCGGTTGGGAAAGG A GAAAACCGAAAAAAAAAGGAGGACATAAGCCGAAAGGGGAG C CAA A A G G GAAAACACAAGGAAGGGACCAGGGGAAGGGCCGG
 A GAAGGAAAAGGGGCGAAAAGGGGAAGGAAAAGGAGAAAAGC GAGGAAAAGAGGGGCCAAGAGGCACCAAAAAACCAGGACGAA $G C A A A A A A G G G G G A G G G G A G A C G G G G A A G G A A G G A A A A G A C C$ GAAGAAGGATAAGAAGGGAGCAAAACAAAAAAAAACGAAAGG
 G GAAAGGGAACCGAGAAAAACCGGCCAGGGAAGAAAGGAGAA G G G G G G G G A A A GAGAACCAGAAACCCGGGGGAGAAGAAAGCA A ACCCCAAAAAAAAGGAAGGGGGGAACCAAAAAAAGAGGGGG A A GAAA A GAA $A \operatorname{AAC} C G A G G A G G G A G G G A A G G A A G G G G G G A G A A$ A G G G GAAAAGCCAAAAAAGGAAAGGGGGAAAAGGACGAAGAG A A G A A A C A GAAAGGGGAAAACCGGAGGGCCAAAGGAAAGAAA G G GAAA A GAGTAAGGGCAAGGGGGCAATGGAAAAAGAAGACA AAAGGGAAAAAAAAAAGGGGAAAGAAGAAGAAGGGGAGAAAA A A GAGAAGACAAAAAGGGAAGAGACCAGGGAAAAACAGAGGG GACGAGCCAGCCGAGGGGCCAGGGAAGGAAGGACAGACAAAA GACCACAGCAAAAAAGGGAAGGAAAAGGAAGGGGGGAAAAAG A GAGGGTTAAGGGGGGAAAAGGAAGGGAAAGGAAGAACAAAG AATAAAGGAAGGAAGGGGAAGGAGAGAGCAAGGGGAGGGGGG A G G G G GAA $A \operatorname{G} \operatorname{A} A A A A A A G G A A A A A A G G G G A A A G G C A G A A A A A G$ G G GAA A A G G GAGGGAACCGGAGAAAAAAAAGGAAGAAACCAC G GAAAAAGAGCCGGGGCCGGAAAAAAGGAAGGGGAAGGAGAA $A G C C C C G G G A G G A A A C A A G G A G A G A G A C G A G G G G A G G G A G A A$ AACCGGAAGGGGAAAAAAAAAACCAAGGGGCCCCGGGGAAGA AA $A$ A A GATAAGAAGGGCCGGGGAACCAAAAGAGGCCAGAAAA G G G A G GAGGGGGAAAAAGAGAACACCGGGGAAAAGACCAGAG G G G G G G G G A G A A A A A G G GAAAAAAGGCCGAACBAACCAAAAA A A A A A A A A G GCC C G G G G G G G G G G A A G GAACA A A A A CAA A A G G G A $A G G A G A A G G G G G G G A C G A G G A G G G G G G A A G A A A G A C G C A G G A$

G GAAAAAGAACCGGAAGGAAAAGGGGGGAAGGCCAGGGAGGG GGCAAGCCAAAGGAAAAGAAGAAAGAAAAAGGAAAACCBGAA G G G G A A A A A A A ACCAACCGGGGGGCCACAAAAGGCCAAGAGG AAGGGAGAGACCGGCCGGGAGAACCAAAGAAGAACCAAAAAG AAGGAAGGAAAAGGGAAACCAAAGAGAAGGAAAAGGAACCAG G GAACCGAGACCAAAGGACAAAGACCCCGGCCGAGGGGGGAG GAAAAAAAAAAAGGAAAAAGACAGGAAGGACAGGGGAAGAAG AAGGGGCCCACCCCCGAAGGAGGAAAGGGAAGGAGAAGAAAG G GAAGAAAAAAGAAAGCAGAGCAGCAAGAGAAAAGGCCA GAA $A G C A A C G G A A A A A A A A G G A G G G A A G G G G G G G G A C G G G G C C G G$ A A G GAA $A \operatorname{GGGA} A A A A G A A G G G G C C A A G G A A A A A A C C C A A G A G$ ACGAGGAGGGAAAAAAAAACAGAGGAACAGGGAGGGGGGGGG
 GAGGGGAAGAAGAAAAAAAGGGAGGACCAAGGAAAAAAGGGG GAGGAAGGAAGGAAAGGGCCAAAGAAGGGGCCGGGGGGAAGG AAAAGGGGTTAAAAAGCAAAAGAGAGGGAGGGAGAGAGAAAG GAGGGAGGCCGACCGGGGAAAAAAGGCCGGCCAAAAGAAACC G G A A T T G G G G G GAA $A \operatorname{GCC} C G A A G G G G G G G G A A A A A A G G C A A A$ $G G A A G G G G G G G G A A G G A A G G G G G G G G A A C C A A G G G G A A A A A A$ C C A A A A G G A A A GA G CAAA GAC CAAAAAAGGAAA GAC G G G G G A A GAGAAGAGAGAAAAAAAAAAACCAAGAAGGGAGGAGAGGAA G G G G G G G G A A A A A A G G G G G A A C A G G G A A G G G G G G C C C C G G G G G GAA $A \operatorname{GGG} \operatorname{G} A A A A A G A A G G A A G A G G C C G A A A A A G G G B A A G A G G$

 A GAAAAAGGAAGGAAGAAAGGAGGAAAACAGAGAAAGGAGAT A G G GAGAAGAAGGGGAGAAGAGAAAAAACCAGGGAAGAAAAA G G G G G G A A G G G G C C G G G G A A G G A A A A G G A A C C A A C C A A G G G G
 $G G A G C C G G G G A A A A A A G G G G A A G G A A G G G G A A G G A A G G A A A A$
 G GAA A G G G G GAAAA A GAAAA A GAAAAAAAGGAAAAGGGGGGAA A A G G G G G G A A G G G G A A G G A A A A A A G GAA $A \operatorname{AGGGGGGGAA} G G A A$ G G G G A A A A A A A A G G G G C $C A A G G G G G G A A A A G G G G A A G G G G T T$ A A A A C C G G G G T T G G G G C C G G A A A A G G A A G G A A G G A A G G G G G G G G G G G G G G G G G GAA $A \operatorname{GGAA} G G A A A A A A A A G G A A A A G G A A A A G G$ T TAAAACCGGGGCCTTGGAAGGCCAAGGAAGGGGCCAAAAGG G G G G G GAAAAAAGGAACCGGAAAAGGGGGGGGGGGGGGAACAC A A A A G GAA $A \operatorname{GA} A A A G G A A G G A A G G A A A A C C A A T T G G A A G G A A$ A A A A G GAA $A \operatorname{GGG} \operatorname{GA} \mathrm{~A} G \mathrm{~A} A A A A A A A A A G A G G A A G G C A A A G G G G C C$ GACCAGCCAAGGGAGGAAAAGAAAGGACAGACAGCAAATAAG A A G G G G G A A G A G G A G G T T C C A A G G T A A A A A CA G G GAAAA A A G A G GAGAGAAAGGGAGGACACAAAGGGACAGGATACAGGAGAA A A A A G G G G A G G G A G A G A G G G A A A A A G G G G G A G A G C C A A G G A A A GAGAAGAGAGACCGGCCAAGGGAGAGGGGGGAAAAAAGGCC A A A C G A G G A G G GACCCGGGGGAAAAAAAAAGGAGGAGAAGAA GAACCCAAAAAGGAGGATACGAGAGGACCCCAAGCAGGCCGG AGGGCCCCAACCGGAAAAAAAGGGAACCCCAGGAAGAGAGAA AAAAAAAAAAGGACGGAAGGAAGGGAGGAAGAGGGGGGAAAA G GAA A GAGAACAAAAAAGGAACAGAGGGGGGGGAGGAAAACAC G GCCAA A GCAGGGGAGAGACAGGCATGAGGGGCCGGAAAAAA
 A C A A A A $\operatorname{A} G A G G G C C G G G G G G A A C C G G A A A A G G G G A G G G G G C A$ AGGGGAAGACAGAACAAGAAGAAGACAGACGAAAGGAAAACC G G TAGGCAAGGGAAAAAGGAAAAAAGCCGAACGGAGAAAGAG $G G A C G A A G A A G G G G G A G G A A A G G G G G C C A G A G A A G B A A G G G G$
 A A G G A A G G A GCC C G C C G GC C G GAA GAGACC GAAAAAA G GA G C $A C G G A A A G C C G G A A G G G G G A A C G G A G G G C A A C G G G G G G G G G G$

A GAAAGAGAGGGGGCACCAGAGAAAAGGAAGAGAGGCCAAAA A A A A G G A A $\mathcal{A} G A A A A G G G G G G G G C C T T G G G G A A G A G G G G A G G G$ GAACGAAAGGAACAAAGGGGCAAACCCCCCGAGAGACCAGAG AAAAAAGGGGAAAAAAGGGGAACGAGAGCCAGGGGGGGAACC $C \subset G G A A G G G A C C A A G A G G G A G A A A A A G G A A A C A A A A A A A G G A$ TA G A A G G A A A G GA G G A A A A GAGAGGGAACCGGCAAC GA G GA G GAAAAGGGGAAGAAGGGGCACCGGGGGAGGAAGGAGGCAAAG G GAACCGGGGCAGGGGAGAGAGAAGGAAGGGGGGGGGGAAGA G GCCCAGGGGGGGGAAAAAGGACCGGGGAACCCCAGG
ATTGGAAAAAAAGAAAAAAAAGAAAAAGGGGAAGGAAAAGG ACAAAGGACCCCGGAGAGAAAGCGGGGAAGACCACCGBAGCA G GACAGGGAGGGAAAGCAGGGGCCGGAAAGAGAGAAAAAGGG A G G GAAAAGGCCGGAAAAAAAAGGCCAAAAGGCCAAAAGGAA A G G G G GA GAGAGAGAAAGGGACAGAAGGAAACGGGGAGACAA G GAGGGAAAAAGCAAAGAAAGGGGGGAAAAGACAAGCCAAGG $A C A G A A G G G A G G G G G A A G G G G A A A G G G G G G G G G G G G G G G G G G$ G GCCAA A G G G GAACTTCAGATTAGGAATAAAAGGAAAACAGG GAGGGGGGGAGGGGAAGGGGGAAGGACAAGAGGGACGGGGGG GAAAGGGGGGGGGCCCAGGAGGAAAAGGAAGGGGAACABAGG CA $\operatorname{A} G A G A A C C G A A G A A G G A C A G G G A A G A G G A A A A G G C C A A A G$ GAAAAA AAGGAAGGGGAAAAGGCAAAAAAAAAAAAAAGACBG G GAA A GAA $A \operatorname{Ag} \operatorname{A} \operatorname{A} A A A A A A G G G G G G A A A A A A G G G G G G G A G A A G$ AAAAGAGGGGGAAGCCAGCCAGAGACAGAGCCGGGGAAGGAA G GAA A G G A G G G G G G C C G A G G G G A A A GAA A GAAA A GA GAAA $A A$ A A GGCCTTACACGAGAAGGAGGGGAACCAAAGGGATAAGGGG GAAGGGGGGAAAAGAAAAAAAGAAAGCAGAGGAGGACAGAAA AAAAGAAGCAAGAAGGGGACGGGACCGAAGGAAAAAGAACAA GACCCCAAGGAAGACAAAGGGGAAGGAGGGGGGGGGGGAGAA
 $G G A A A A G A A A G G G G A A A A G A A G G A C A A G G A A A A G A G A A A G G G$ AA G GAAGGAAAAAAGAAGGGCCAAAAAAGGGGAACCAAAAGG AAAGAGGGAAAACAGGAAGGGGAAGGAACAAGGGGAGAACGG G GAAACAGAGAAAAAGAAAGAAGAAGGGGGCAGGAGAABAAG AGAGAAAGCGACGACCGAGGGAACCACAGGAAACCCAAACAG A A G G G GAAAAA A $A \operatorname{A} G A G A G A A G G A A A A G G A A G G A G G A A G A A G G$ A A A G G A GCGGAGGAGGGGGGAGAGAGCGGAGGACAGGGAAGA
 CAAACCGAAAGGGACAAACCAAGGAAGGAAGGAGGGGGGGGG ACAAAGAAGCCAGAAAAAAGGGGGGAGAAGAAGGAAAGAA GA G GAA A GCCAAGGCCCCGGGGGGGGAAAAGGAAAAGAGGCCCC GAAAGAAGGGCCGAGGGGGGGGAAAGCAGGGAAAAACAAGCC
 AAGGGGAACCTTGGCCCCGGAACCAAAAAAAAAGGAGATAAG
 A A A A C CA $A$ A $A G G A G G G A A G G A A A G A G A C G G A A G A G A C A G G G G$ G GCGGGAGAGAGGGGGTTGGGGGAGGAGAAAGGAGAACAAAA A A GAA A A A A GAAAAGAGAGGCCGCCCGGAAGGAACAAGAAAG CAGGGGGAAAAAGGAACCGGAAAGCCACGAAAAGAAAAAAAA G GAAAACACAAGGAGGCAGGGAAGAAGATAAAAAAAGGCAAA $C \subset G G A A C C A A A C A A A A G G C C A A G G G G C C A A G G A G G G A A G A A A$ AAAGAAAAAAGGCCAAGAGAAGAACCCCCCAGACCCCCAGAA A G G A A A A A G G T T G A G G G G C C G G CAAAGGGAAAG GAAAAAA G A C C A A A A A A G G A A G G G G T T G G G A A A A G C C A A G G A GAA GA G G A A AAGGAAGGAAGAAAAGAAAGAGGGACAGGGAAAAAGAGAGAA CAGAAAAAGGAGAAAAAACCCCAGAAAGGGAAAACAAAAAAA G G A A A A A A A A A A A A GGGAAAAAAAGGGGGGAAAGAAAAAAA GAAGAAGAGAAAAGAGGGGGGGGGAAGGAAAAGGGGAGAAGA C C G GAA $A \operatorname{G} \operatorname{A} A C C C C G G G G A A A G G A A A A A A A G G G G C C A A G A A G$ AAAAATGGACGGGGAAAGAAAGGAGAAAGGAGAAAAGAAAAA

AAAGCCCCGGAAGGGGCCAAGAAGAAGGAAAAGGGGCAAAAA AA A GACAAGGAAAGAGCAAAGGAAAAGAAAGGCAGGGAAAAG GAACAGAGGGAGACAAGGGGAAGAAGACGAAGCCAAGGAGAA G GAACCTAGGGGCCAGGGGGGGAAAGGGGGGAA $\operatorname{CA} A A A A A G G G G$ $C C G G G A A G A G G G G A A A G G T A A G G A A A A A G G G G A A G A G G A G A G$
 G GAG $A \operatorname{GGG} \operatorname{GA} A G G G A G G A A G G G G C A G G A A G G A A G G G G C A A A C A$ G GACGGGAGGGGGGGGAAAAAGAGTTAAAGCCAAAAAAAAAA A G A C A A G G G A C C A A G G A A A A A A G G G G C C G A G GC C T T C C A G G A AGGGAAAAGACGCCAGAGAAAAGGAAAGGAAAAGAAAAAAAA G G G GCAAGAGCAGGAACCGGAAAACCAAGAAGAAAGAAAGGG G G A C A T G G A A G G G G A C A G G G A A G G G G G G A A A A G G A G G G G A C A A A G G G G G G A A A A A A A A GAGGGACAAC GAAGGAGGGGAAAGAC CAACGAGGGGAGAGGGGGAAGGGGGGGAAGGAGGAGGGAGAA GACCAAGAACAAACAGGAAGAAGAAGAAAACCGGAAAAAGCA CAGGAAAAAGACGGAGGGAGAGAAAAAAAAGGAACCGAGGAA AAC GAGAAGGAGAAGGAAGGAGAAGGCCAAAAAGGGAAAACC G GAGAAGAGAAACAAACCGGGGAAGGTTAACCACAAGAAAAA GAGAGGAAAGGGGAGAAATAAAGAAGAAGGGGAGGAAAAGAA G GAAGAGACCAGCACAGGGAGGAAGGAAGGAGGGAAAAGGGG G G G G G GAA $A \operatorname{GA} A A G G A A G C C A G G A A A A A G G G G A A G A G G A A G G$

 G G G A A A G G A G G GAA $A \operatorname{GGA} A A A A A G G A A G G A C A A A A G G G G C A A A$
 G G GA $\operatorname{G} A \mathrm{~A}$ G G GAACGGGTACCAGAGACGGAACCGGGAAAGGAG G GAAGAAAGAGGGACCAAAAGACCAAAAGACCAAAGGGAGAG G G GACCGGCAAAAAGGGGAAAAGAAAAAGGGGGGGGABCCC G A GAGCGGGGGGGGACCAAGGGGAAGGGGAACCAAGGGGAAGG G GAA A G G G GAA A A A A G GAGGAACCAAGGGGAAAAGGTTACGG $C \subset A A C C G G A A A G G A A A G G G G A A G G A G A A A A C A A A A C G G G G A G$ A GAAGGGGGGAGAAAAGGAATAAAGGAAGGGGAACCAATTAA CCGGCCAAGGAAAAGAAGAAGGAAAAGGAAAAGGAAAAGGAA G GCCAAAGGAGGAGGGGGAAGGAAGAACAAGGGGCACAGGAG G G GAACA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A A A A A A A A A G G A A A A G G G G G G G G G A G A A G A G$ A G G G G G A G G A A G A A A A A G G A A GA G C C G GACAA G G G G C C G G A T A GAAGGCCAGGGGGCCGGACCAGAAGCACACCCCAAAGTATT GAAAAAGGCAGACAAGGAAGGGAGCACAGAGAAAGGGGGGGG A GAGAAGGGAAGGAGAAACCGGCAGGGAAGAAAGAAA GAAAAA G G G G A A A A CA $A \operatorname{GCC} C A C \subset A A G G G G G G A A A A G G A G G G G G A G A A$ GGGGCCAAAGAAGGAAAACAGGCCGGGGGGGGAAAAGGAGAA A A A A C A A G A G G G A G C A A A A G A A A A C CAACCGGTTG GAA G GAA G GAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAGAAGGAGAA A G GAA A GACCGGAGGAAGGAGAACCCCCGACATTGGAAGGAA A A G G A A A A G G A A A GAGGACCGGGGGGGGAAAACAAGAAAGAG A GCACAGGAAGGAAAGAAAACCCCGGGGGGGGAAGGAACAAA GAGGAGACAAGAGGCACCAACACCGGGGCCAGCCCAAACABG $A G C C A G A G G G A A A G A C G A A G C C A G G G A G A G G G G G G A G G G A G G$ $C G G A A G G G A A G G G G C C G G A A A A C C A G T A G A A C G G C C G G G A G G$ G G A A G G A A G G G G G G G G G G A A A A A G CA $\mathcal{A} A A A A G A A A A A A A G G A G$ CAAAGAAGACAGAGGAGGGAAGGGGGAAGGCCGGGGGAAAAA AAGGCCAACAAAGGCCAAGGCCAAGGCCAAAGAGGGAAAAGAG A GAGAGAAGCAGAGAGAAAGAAAAGACCAAAAGGGGCCBGAG AAGGAAAAATGAAAAACCGGAAGATAGAAAAGAAAAGAGAAA A A G A A A A A A A A A A A A A A A A A G GAAAAGGAACCCCAAG GAACA AGCCAAGGGAAAACAGAAAGCCGGAAAAAAGGCCAAAAGGAA A A A A A A A A A GCCGGCCAAAAGGCCGGAAAGAGAAGAAGAGAA A GAGGAAGCATAA GAGGAAAGACAAAGACCAAGBCACGACA G $G G A C A A G G C G A G A G A A G G A A A A G G A A A A G G G G G G A C C A C C A A$

A A A A A A G G G G G GAGCCGGAAAAAAGGAAGGGGGATTGAAAAA C C C C G GCCAGGAGAAACCCAGAGGAAAAGGAAAAAAAAGA GA $G G A G A T A A A A A A A G G A A A G G G G G A G A A G G G A A G G C A A G G G G G$ G G G G G GAGAAACAGGAACGGCCGGTAGGGAGGCCGGGAGGAA ACGGGAAAAGGGAGGGAGGAAAGGACAGGGAAAGGAGAAAAA A A A A G G G G A T A A G A A A A A GAGGAGAGAAAAACTTAAGAAC G G A A A A A A A A A A G G G GAAAACCAGATAAAAAAAAAA GAAACCAG A G G G G G G G G G G GCC $C$ G G GAGGGGGGGGGAAAGGAACCAAAAT T A A A A A GAAAA $A \operatorname{A} G \mathrm{G} A A G A A G A G G A G A A G G A A A T A G A A G$
AAAGGAAAACCGGGGGAGAGGAGGGGGGAACAGAGGAGC A A A GCC G A A GCCAACCGAAGGGCAGGGGAACAAAGAGGGGAAGG
 G G A A A A A G A A A A A A A GCCAAAGACAAAAAGCCGGAAAATTGG G G G GAA A GAAAAGGCCGACAACAAGGAGAAGGAGGACCAATX AAAAACAGAAAGAAGAGGAACAAAAAGAGGAGAGGGGGAAGG G GAA A A G G GAAAAGCAGGAAAAGAAGGGAGGAGGAAAAAAGA G GCCCAAGGGAGAACACCGGGGACAGGAAGAGGAGGGAAAAA
 GGGGCCAAGGAAGGGAAAGGCCAAAGAGGGGGAAGGAAGAAA G GAGGCGGCAAGAGGGAGAGCCAAGGGGGGGAGGAGGGAGAG GACGGACAGGGGAAAAGGGGAAAAAACCAAGAAAAGAACAGG GAGGGGACGGGGCCAAGGAAGAGGAGAAGGGGAAAGAAAAAA G G G G G G A A A A G G G G C C G G G G C A G G G G A A G G G G G G A A A A C C C C A A A G A GAA $A \operatorname{GGG} \operatorname{GC} C A A A G T A G A A A G G A A T A A G T T C C A G A C G G$ A G G G A A G G C C G G A A C G A G A A A G G G A A A A A GAG GAAAA G G G C C A A G G A A A G T A G A G G G G G G G G G G A A G GC C A A G A A A A TA G G G A A A A G GAAAGAAGGAAGAAAAGAAAGGGGGGGGGAATTGAAGAG G G A G A G A A G G A A G A C C G GAGGGCCGGAACCAGGAGAGAAA GA A A GAA $A$ A C G A G A A C A A A A A A A A G G A ATTCCAAG GAACAAAAC $G G A G A G G A C C A G G A A G G G C C A A G G G A A G A G A A G G G A G A A A C A C$ T T A A A G G A A G A A A G A G G G A G G G G G A A A G A A A C A A A A G G A A G A GACCCCAAAAGGAGAAAAAAAAAACCAACACAAGGACAAAGA $A \subset A A G G G A G A A G G G A A G C G A G G G A G G G G A G A G G A B A A G G G G G$ GAAAAAGGAGGAAGAACCAAGGGACCGGAGGGCCAGCCAGGG GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACAAAAG C C A A A G GCAAAAGGAAAAAGCCGAGAGGAAAACCGGGGAGAA A A GAA A A G G G A A G G GAAA $A \operatorname{A} A A A G G G G G A G A G G G G G G G G A G A G$ GAGGAAAGACGACCGGGGAGGGAGAACCAAGGAGGAAAGGGC A G G G A A A G A G A A A A A G G A A A A A G G G GAGAAGAACCCCC G GAA CAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGGAACCAGBA C CAGAGGGGAGAAGAGAAAAGGAAAAGGGGAAAAAAGGGGGG
 AAGGGGAAAAAAAAGAACACAAGGGGGAGGGGGGCACAAGAC A A A GAGGAGGAGCAGACAGGGGGGGAGGAGAGCAGAAGAAGA C C GAGAGAAAAAAGCCAGGAGAAGGGACGGAGAAGAAGAAGAG GAAACCAGGGGGGAGAAAGGAGACGAGAGGACAAGGGBAGAA
 G GAGGGGGGGAAGGAGGGCCAAAAAAAAAAAAGGGAAACAAA A A G GAA A GAAGGCGGACCACGGAAAAGGAAAGACGAGACAAA G GAGGAACGGACAGGGAAAAGGACGGAAGGACAGAAGGAABA
 AA $A G G G C C C C A G G A A A A A A A A A A A G G C C A G G C C G A A A A A G B$ A A A G A G G G G A G A A G G A G G A G A A G G A G G G C A A A A G G GA G A A G G GGCAGAGAGGAAAAGGGGAGAGAAAGAACAAGCCGGAGGGAG
 A A A A G A A G G A A A G G G G A A A A G G A A G G A G A A GACACAAAAA $A$ A $\mathcal{A}$ G G G G G G A G A A A A A A A G A A G G G G A A G G G G G G A A A A C CA G C C C C A A A A A A G G A G G A A G C A G G A A G G A A A A A A GAA A A A G G G A C C G G AAAAAAAGAAGGAGCCAAAAGGAAGAAAAAAAAAAAAAAAGG
$A A G G A A G G A G G G G G A A G G G G G G G G A G G G C A A G G G G G G G C C A A$ AACCGAGGGAGGCAAAGGGAAAGGAACCAAAGACAAAAAAGA A A GAA A A A A A A A GAGGGAGAAGGGGGGGGGCCAAAAGAAACG AAGACCAGACGAGGCCGGACGGGAGGAAGGAGGAAAGAGGGA A GAGAAACAAAAGGAAAAGGCCAAGAAAAGGGGACAGBAACC A A A A A A G G GAGGAAAAGGAAAGACAAGGAAGAAGGGGGAACA A G G GCCAGGGAAAAAAAGGGGAAGAAAAGGAAAGGGGGAAAAA G G G GAAAAAGAGGGAAGAAAGGAAAACAAGAAAAAGGGGGCC G G A G G GACGGAAGGAAAAAAAAGGAACCAAGAAAAGAGAGCA G G G G G GAAAACCCCGGAAGGAGAGGAAAGACCTTAAGGCCAA G G G GAGCCAAGGAAAAAAAGGAGGAAGGGGAAGAAGAAAAGG GAAA A G G G GAA $A \operatorname{AAA} A A G G A G C A G G G G G G G G G G G G G G G G G G G G$ AATTAAAAGGGGAACCAAAGGGAACCAAGAGAAAAAAAAAAA AAAAAAAAGGAAGAGAAGAGAAACGAGAAAAGCCGGCAGAGG A GAGGGGGGGAAAGAAGAGAAAAGCGAAGGGGAAGAGAGAGA A G G G T TAGAAAAAAAGGAAAAGAAAAGGATAACCAACCCCCC A A A A A A A G G G G GAA $A \operatorname{Gg} \operatorname{GACAAAAAAAAAAAGAGGGCCCAACA}$ C CAGAAGGAGGAGGAAAAGGAAGGAGAGAGGGGGGAAAAAAG GACAAAAACCGGGAACGGAAAACCAAAAGGCCCCGCGACCGG A A A A A A A A A A G A A G G G A CAAAAAAGGAAGGAAAAGGGAAGAA $G G C C G G A A G G A G G G G G G G G G G A A A G G C A A A A A G G G A A A A G A A$
 $A G C G A A G G G G A G A C A G G A A A G G A G G G A A A A G G A A C C G A A G G G$ G G G GAAAAGGAGCCGAGAGGAAGAGAAAAAAGCAAAAGAAAA $G G G G A A G G G G G G G G G G G G A A G G A G G G G A G A A A G G C A A A G G G A$ G G G A A A A A A A A A A G G G G G G GAGAAGGGGGAAAAAAAAAAA G $A$ GAAGAAGGGGGGAAGGAAGGAAAAAGAAAAAAGGAAAAGGGG
 AACCAAAAGGAAGCAGGGCCAGACGAAGAGAGGGGGGAGAGA A G GGCCAACAACAAAAGGCGCAGGGAAAGACAACAAGGGGGG A A A A A T G G A A G GAA A $A \operatorname{AGGAAGGAGGGAAGGGGGGCCAAGAGG}$

 A A G G A A G G A G G G G G G G A G A G A T A A G G A A GAC CAAAAAAA G G G G GAAGGGGAAGAAAACCAAAAGGAAAAGGAAAGAAGGAACCTT A A A T G G A A G G A A A A C A G G GAGAAAAAAA G G G G G G G A G G G G A G A A A G G A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A C A G A G A G G A A G G G G C C A G G A C C G G G G A T$ AAGGGGCAAACCCAGACCGGGGGGAAAAAAGGCAAGGAGACAA A G GAA A A A A A A GAAGGCCCCAACCAAAAGGAAGGAAAGAGAA
 AAGAAGGGAACAGGAGAAAAGGAGCCGGGGGGGAAAACGGGG
 G GAAGGGGAGAAAAGGGGGAAAAAGAAAGGAAGCCCAACC GA AAAAGGAAGGAGAGAAGGAAGAGACATAAGGAACGGAAAACC C CAAACGGGGCAAAGAAACAAGAAAACCGGGGGGAAGGGGCC A A A C G GCAAAACGGAGGGAAAAGGAAAAGAGGGGAAAAGGAG AAGGAAGAGGAAGGGGAGGAACAGGGGAGACAGGAAAGACGG A A G GAA $A \operatorname{GGA} G \operatorname{G} C \mathrm{C} A A A A G G A A G G T T A A A A A G A G A C G G A G A A$ CCGGAAAAAAAAAAGGCCAAGGAAGGGGAAAAGGGGAAAACC C C A A G G G G A A G G G G G G G G A A G G A G A G A G A C G A A A A A G A A A G G G GAA $A \operatorname{G} G \mathrm{G} A A A A \operatorname{A} A A A G G C A G G G A A G A C G G G G G G A A G G G G G G$ $A A C C C C C A A G G G A A A A G G A A A A A A A A G A G G A A G G A G C A G G G G$ A A A A $\mathcal{A} G G G A A G A G A A G G G G G G G G G G A G G A A A C A A G G C C G G G G$ AAAAAAGGCCGGGAAGAAAAGGCCAAGGAGAAAAAAAAGGGG T T G GAAAACAAACACCAATTCCAAGGGGAAAAAACCGGGBAA C C A A A A G G A A G G G A G A T TAXC CAAA G G G G G G G G A A G G G G G G A CA GACACAACGACCGGAGGACCAAGGGAAGCAGGGGGGAGGA
 AACAAAGACCGAGAAAGGGGAGGAGAAAAGCGGGGAGAAGAA

GAAACCAAAGACAACCAAGGGGCCGGGGCCGAAGACGAGGAA
 A A A A C CAA $A \operatorname{GGG} \operatorname{GA} A A G A G A C G G G G G G G G A A A A T T A A G G G A G G$ A AAA A GAAA AAGAGAAAAGGAACCAAAAGGGAAAGGCCGAGG G G G GAA $\operatorname{G}$ GAGAGGAAAAAAAGGCCTTAAGAAAAAAAGGAAGA GAAAAAGAGAAGAACCCCGAGAACCAAAAGGAGGGGGGAGAG AAA A A G G G GAAAAAGAAAGAGGAACCAGAAGGGGGGGGAGAG G GAAACGAAAGGGGCCAGGCCGAGAACGGCCCAAAGAAAGAG A A A G G G T A A C G G T T C C G G C C A A G G G G G G A A G A A G G G G
 GAAGGAAAAGAACGGGGGAAGGAAGAAGAAAAGGAAAAAAGG A A GAGGAAAGGGAACAGAGAGAAGAGGGGACCGAAGGAAGGG A GCCGAAAAAGGCAGGGGGGAGCCCAGGAAGAGGAAACAAAA A A G G G A T T G A A A G GAAGGGGAAAAGAGGCCAGAGAGCAAG GA A A G A $\operatorname{A} A A G G G A G G G G G G G G G G G A A G G G G G G G G A A G G G G C C G G$ A AT TGGGAAGGGAAAAAAAGAGAAGGAGAGAGACGAAGAC AA G GAGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGAAAAA GAACGAAAGGGAAAGGGGAGAAGGGGGGAAGGGGGGCCAGAA $G G C A A G G A A G A A G G G G A A G G G G C A A G A A A A C C C C G G A A A G A A$ G G G G A G G G G G A A A G G G A A A A A A A G G G A G G G G G G A A A G G A G G G G G GAA $A \operatorname{GAA} A A G G A A G G A A A G G A G A G G A A A G A A A A G G C C A G A G$ GAGAAAACAGGAGGAAAAAAGGAAAAGGGGGGAACCGGGGGG C C G GAA $A \operatorname{GAA} C A A A G A G G G G A A A A A G G G G A A A A A G A A A A A G A$ $A C A C C C G G G G A G T T G G G A G G G G A A G G A G G A G G A G G G A G A G A C$ G GAGGGCCGGGGGGGGAAAACCGGAAAACCGAAAAAGGAAAA GAAAGGGAGGCAAACCGGAAAAAGAGAGAGAGAAGGGGAAGA GGCCACAAAACAGGAAGGAAGAAGACCAGGAGCCGGAAAGAG A G G G G GAA A GAAGGGGAAAAAGCCAGAGGGAAGGGGAAAAAG C CAGAGAGGAACGGGATTAAGAGGGGAGACGGTAGAAAAGGG AAAGGAAACCCCAAGGAAGGAAGGAGAGGGAAGGCCGAGGGG
 AAGGAGAGACGACCAAAAGAAGGGAACCAGAAGGAGGGGGGG A A A A C G A G G A G A G G G G G G A GAGGGGAGGCCAA GAA GACAC G G AAGGAAGGACCCAGAAGGCAAAGGAGAGAAGGAAGGAGAGAG G G G GCAAGCCGGAGAAGGGAACGAACGGACAAGGAGGGAAGAG G G G G A G G A C C G G A A G G A C G G G G A G G G G A A C G G G G C C G G G G A A
 AAGGGGGAAAGAAGAAAAAAAAAAAAAAAAAACCGGAAGGGG G G A A G A A C A G A A A A A A G GAAAAAAACAGAAGAGAA GA G G GA G C C GA G GA GAGAACCAAAAGGAAGGGAGAAAAGGGAGAAGGGG A G G GAGGGTTAAAGAAAGGGAGGACCAAGGGGGGAAAACCAA
 G G G G GCGAAGGGAAGGCCAGCCGGAGGGCAGGAAACCCGGGG A G G G GACCAGAAAGGAGGGGAAGGAGAAAAAGGAGGAAAGTA G G GA $\operatorname{l}$ A A $A \subset A A A G A G G G G G G A A A G G A G G G A A A G A G G A A G G A A$ $G G A A G A A G G G G A G G A A A A G G G G G G A A A G A G A G A A A A A C A A G C$ G G A G A G G A GAGAGGGGAACCAAGGCCAAGAGAGGAGAAAAAA GACCGGAGAGGGAAGGGGCCGAAAGAAAAGGGAAGGCCAAAT $C \subset A A A G C A G G A G G A G G G A G A A A G G G G G A G G A A A A C C G G A G G G$ G G G G A ACCAAAAACAAAAGGAAAGCCGGCCGGAAAAAAAAAC G GAGAAAGAAGGAAAACCGGGGAAAAGGACCCGAGCAAGGAC GAGAGGCCAAGGAAAGAGAGAGGGGGCCCCAAAAAAGGGGGG C C A G A A A A A A G G A A A A A A GAGGGGCCAAGGAGA G GAGAGGGA TAAAAAAAAAAAGGGGAAAAAAGGAAGGCCGGAAAAGGGGGG AAAAAAAACCGAAACCAAAAACAACAAAAGGAGGGGGGAAAA G GAGGGCCACAAAAGGAAAAGAGAAACAAGGGAGAGAGAAAA C GACAGAAAAAGGAAAAAAAGGCCAGGGAAAAAAAAAAAAAA A A G G A A A G G G G G G GAA A C CA A A A G GAGGGAGGAGGGACAAGA G $A C G A A G A A A A C C A C G A C C C G A A A A G A A G G A A A C C A A A G G A A A$

GAAAAAAAGGGGGAGACCCCAAAAAGGAAGGAAAAAAAAGB G GAA A G G G G G G GAAAAAATXGGGGGGAAAAAAAAAAAAAACC G G G GAA A GAAGGAATTAAAAAAGGAAAACCGGGGCCAACCAA $C C G G A A G G A A A A G G G G A A A A A A C C G G G G A A A A A A C C G G C C G G$ G GAAAAAAGGAAAAGGAAGGGGGGGGGGCCAAAAAAAAAGAA G G G G G G G G G G A A A A A A G G G G A A A A C C G G G GCCGGAAC CAAA A C C A A G G A A C C G G G G A A A A G G G G G G A A G G A A C C G G G G A A G G G G G G G G A A G G A A G GC C G G G G G GAA $A \operatorname{GGGGAACXAAGGGGCCGGGG}$ G GCCAACCAAGGGGCCAAGGGGAATTAAAAAACCAAAAAAGE GGAAGGGGCCAAGGCCCCCCAAAAAAGGAAGGGGAAAACAAA C CAAAAAAGGAAAAGGAAGGGGAAAAGGGGGGAAAACAAAAAA AAGGCCAAAAAAAAAAGGCCAAGGAAGGCCGGAAAAAAAAAA G G G GCCGGAACCGGGGAAAACCGGGGGGGGGGAAAACAAAAA
 G G G GCCAACCGGAAGGAAGGAAGGGGAAAAGGGGAAGGAGAA G GAAAAAAAAAAGGGGAAAAAACCGGGGGGTTAAGAAAGGCC G G GAA A G GCCCAAGAGCCGAAAGGGAGAAAAAAAAGAAAGAG GAAAAAACGGGAAAGGAGGGAAAAGGAGACGGAGAGGGACAG A A A A A A A A G GAGGGGGGGAAAAAAAAGGAAGGGGAGGGAAAA G G G GAAAGACAAAACCAACCAACCCCGGCCAAGGAAAAAAGG G GAAAAGGAACCCCAAAAAAGGGGAAAAAAAGGAGAGAAGGG A GAATTAAAAACAGGGAAAACCGGGGGAAGAGCCCCGAAAAA

 A A C C A G A G A A A A G A A A G G A A G GAA GAAACCAGAAGAAGACAA CAGGCCAACCGGAAGGGGAGGGAGGGACGGAACCGAAATTGG A GCAGAGGGGAGAAGAAAAAGAGGAAAAGGGAGAAAGACCGG G G A G A A T T G G A G A A A G G GACAACCCCGGAGCCGGAAGETAG G
 GGGGGACCAAGGGGGAAAAAGGAGCGAAGAAAAAAAGGAGAA A A A A G G A A A A T A G G A ACCAAGAAACCAAGGGGAAAACAAA G G AAAAAGAGAGAGAGACGGGGGGGGAAAGAAGGAGAAACAAAG G G G GAA $A \operatorname{GAA} \operatorname{A} G A A A A A G G G G G A A G G A A A C A G A A G G A A A A G G$ G G A A A A A A G G G G G G A A G G G GAACCAACCGGAAGGAGACCC G G G G G G A G G A G A A C G G A G A G G G A A G G G G C C A A GA G A A G A G G A G A
 G GAA A G G GAA $A \operatorname{A} G A A A A A G A G G G G A G A G A A A A A A A G G A A A A A A$ G GAAAATTAAGGGAGGAAGGGACAGGGACAAGGGGGTTAGAAA TAGGGGAGAGAACCAAAAGGCAGGGGAAAAAAGGGBAACCBG G G G G A G G G A A GAGGAAGGGAAACGAACCAAAAAAAAAAACAC C C A GAAGGGGAAGGGGTTAAAAAAAAGGAGCCGGGGCAAGAG G GAAC GAA $A \operatorname{A} \operatorname{A} A G G G A G C A A C G A A A A A A G A G A A A A A A G A C G G A$ A A A A A A A A G G GACCAAGGAAGGAAAGAGAAAAGAGGGBAAAG G GAGGCAGGAAAGCGAGGCGGGGAGGAACCAGGGGAGGAAGG G GAGCAGGAAGGGAAAAAGGAGACACGAAAAACAGAGGAAGAG GAACGGGACCGGACCCAGAGGGGGGGAGCCACCAAGGBACAG A G A G A A C C A A A A G G A A G A A G A A G G G GAGC C G A G G G GAA G G G G A A A A A A T T G G G GCGAAGAAGAAGGAAAAGGGGCA GAA GAAGG AA $A$ A $\operatorname{A} G A A A A G G A G G G A A C G A G G G A G G A G G A A A A A G A A G A A G$ GAGGGAGAAACCAAAAAAGGGGGGCCGGAAGGAGAAGAGGGG G GAGGAAGAAAAAACCAGGGGAGAGAGAGGAGGGAAAAAGAA G GAAGGACAAGGAGAACCAAGGGGGGAAGGAAAAAGAGAAAA A G A G A G A C G G A A A G A A G G A G G A A G G G G G G G C A G A G A G A A C G G AAAAAGCAAGCCAGGGAAAAGGTTAGGGGGGGAAGGCCGGGG AAAAAGACGGAAAACCCCGGAACCGGGGAAGAGGGGCAAGAA
 A A A A CAG A GAAGGGGCAAAGGGGGGGGAAAAAAAGCCGBAACC A A A A G GCAGAAAGAAGCCGGACAAAAGGCCAAAACCAAAGAC A GAGAGGACCGGAAGGAAGGAAGGAAAACCAAGGACAAGGGA

G G G GACAGGGAGGGGGGGAGAAAAAACCAAGGGGAGAGAAAG AC G A A GAACAGGGGAAGGCAAAGGAAAGGGCAAAAAAAGGAA ACAGGGAAAGGAGACCGGAAGGGAAACACGGAGAGGAAAAAA A A A GAGGAGGGGGAAAAAAAAAGGAAAAAAAGAAGACAGAAA AA G GAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAGAGAAGG C C G GAA A A A C GAGGAAGAAGAAAGAGAGAATTGGGGCAAAAA AACCAAGGAAGGAAAATAAAAAAACCGAAGAGGAAGAAAA GA GACCAAGGAAAGGGGGGGGGGGAACCGGCCGGAAAAAACCAA A A C C A A C C A A A A A A G G G G C C C C A A G G A A G G A A C C G G A
A G GAA A G G G C C A A A A A A A A G G G GAA A G G G G GAAAAAG GAAAA
 C C C C A A A A G G G G G G G G A A C C G G A A C C G G G G A A G G A A G G A A G G A A A A G GAAAACCGGAAAAGGGGCCAAAAGGAAGGAAAACCCC A A A A A A G G A A G G G G G G G G A A G G G G G G C C A G A G A G A A A A G G A A C C A GCGCCGGGGAAAAAAGGGGCCGGGAGGGGAGCAGGAAGG AAAGGGAAGGCAAAGAAAGGCCAGGACCGGGGAAGGAACACC AACCAAGGCCGAGAAAAAGGGGGGAGGGAAAGGAAAGACAAC ACAAGAAGCCGGCCAGGGCCGGGACAGAGACCAAAGGAGGAG GAGGACAAAACGAAGGAAGAGAGGAAAGCGAAAAGGAGAAAA T T G G A A G G GA G A T T C C T T A A G A A G C A G A A G G G G G A A G A A A A G GAACAGGGGGAAAAGGGAGGGAGAAGAACCATAACCAAAACC A A G GAGGAGGGGAGAGGGAGAGAACAAGAGGAAAGGAAAAAA G GAGGGACGGAAACAAAGGGGAGAAAGGGGGAAGGGAGAAAA GAGGCCAGGGAAAAAAAGAGGGAAAACAAGCCCAAAAAAAAA C C GCAC G G A GAA A GAGAGAACCGGAGGACCAAAA AA G G G GAAA A GAAAGAGGAAGAAGGCCAGCAGGGGAAGGGGAGAGAGAAGG GAGGGAAGAAGGAGGGAAAAGGAGGGGAGGGAGAGGAACCAA A GATAGGAAAGAGGCCCAAAAAAAAGAGGAAAGAAGAGAAGG GAAGGAAAGGGGAAGGAAGGCCGAAAGAGGAAAAAGGGAGAG GAAAGGGGAAAGGAAGAATTGGCAGACGGGAAGAAACCGGGA GAGGGGCCAGGAGGAGGACCGACGAGGAAGCCGGCCAAGAAA G G G G G A A G G G G GCC C A G G G G G G A G A G G A A A C A G A A G G A G G G G G G G G A A G G G GAAAA $A \operatorname{A} A A A A A C C G G G G A A A A G G G G G G A A G A A A$ G G G G A A A A G G G GAA $A \operatorname{GCC} C G G A A G G C C G G A A A A G G A A A A A A A A$ G G A A G G G G A A A A $\mathcal{A} G A A G G G G A A G G G G G G G G A A A A A G G G G G G G$ A A G G G G A A G G G G A A G G A A A A A A G GAGAGGACA A A GAC C G A G G G GAAAGTTAAAACCGGAAGAAAGGGGGGCCGGAAGGAAAAAA A G G GCACAAGAGAAAAAAAAAAGAAAGGAACAAACCGGAGAA
 C C G G G G G G GAGGGAGGAAGGAAGAAAAAGGAAAGACGBCAAC A A GACCAGAGACACGGGGGGTTAACGAAGGAAGGAGAGAAAA G GAGAAAGGGGGAAAAGAGGAGGGGGAGGAAGACCAAGAGAA AAGGCCGAGGAAGGCCGGAAAGAGAAGGCAGAACGAGAAAAA C C G GCCGACCAAACAAAATTAAGGACAAGAAAGAGBAGCGGG G G A G G G A G T T A A C C G A A G A G G G G G G G A G G G G G G G G A A A G G A T GAGGGGGAGAAGGGGGAGGGAAAAAGAACAGAGGAAGAAACC G G G G A A G G A A G G G G A CA A C C G A A A GAGAGGGGGGGAAA GAA A A A G G G A G G G GCCAA $\mathcal{A} G G G G G A G C A A G C C G G A C G G A A G G G G G A$ GAGAGGGGGGGGAAGGTAGAAGGAAAAGAAAGAAAAGGTTGG A A A A G G G G A A A TAGCCAGCCGAAGGGAACCGGAGAGATACAG C C C C A A A A GAAAGGGGAAGGAAAAAAGGGGAAGAAAAAAAAA G G G G A A A G G G G GC C A G A G G G A A A GAGGGGGGGAAAAAACC A A A A G G G GAAAACCGGAAAGGGCAGGGGAGGGAAAAAAAAAGAT GAAGAAGGAAGGGAGGAAGAGGCCCCGGAGAAAAAAAAGGGG G GCCGGAAGGAAAAAAGGAACCGGGGAAGGAAAGCCGAAAGG G GAAGAAGAAACCCGGGGCCAAAGGGGAAGAAGGCAGGAACAC A CAA $A \operatorname{GAA} A G G G G C C A G G G A G A G G G A A G G G G C A A A A A G G G G B A$ A A G A A G G A A GAACCAACCGGAGAGAGAAAAAGCAAACAAAAA $C \subset A A A A G A G G A A G G G G G G A A G G G G G G A A G G G A A A A A G G A A A A$

CAAAGAAAGGACCAAGAGAGAAGGAGAGGGGGAGAACCAAGA A G G G A G G A A G G G A G G G G G A G G G G C G G A G G G G G C C A G C C A A A A $G G A A A A A G G A G A G G G A G G A G A G A A C C A A G G A A G G C C A G A G G G$ A A G GAA A A G GAAGAGGCCGGAAGACCAAAGCCGGAAGGAAAG G G GAAAAAAAAAGGAACCGAAAAAAAAACCGGGGCCGGACAAA A A G G G G A A A A A A A A G G A A G G G G A A A A A A G G G G G G G G A A C C A A A A A A A A A G G GA A G G G G A C T A GAAAAGGGAAAAGGGAAA GACA A G G GAAGGAAAAAACAAACCGAGAAAGGAAGGGAAAAACCCC $C \subset A A G G G G G G A G A A A C A A A A A G A A A G G G G A C C C C A A A A A A G G$ AAAAGGAGAGGGGAGAAAAGCGAAAAAACCCCAAGGAGAGGG A A A A A GAA $A \operatorname{GA} A \operatorname{A} G A A G G T T G G A G A G A A A A A A A A G G A G A A G G$ G GAAGAACGAGGACAAGGAAGAAGCCCCGGCCAAAGGAGAAA
 AAAAGACAGAAAAGAAAAAAGGACAACGGGGGAGGACCAAGB G G G GAAAAAAAGAGTAAAGAGAAAATAAACAACCGGCCAAGAG A GAGTACCAGGAAAGAGAGGGGGAGGAGAGAAGGGGAAACTT A A GAAAGGAAGGGAGGAAAGAAAAGGGGAAGGCCBAAAGGAG G GAGCCGGAAGAAGGGAGCCGGGAGGAAAAGGAAAGAAAGAA GAGGAAGGGGCAAGGAGGAGAAAACAAGAGAAAAAGAAAAGAG
 AAGGGGCCGGGGAAAAGGGGAAGGAAAAAAAAAAGGAAAAGG G GAAGGAAGGCCAAGGCCGGAAGGAACAGGAGGAGGAAAAAA C C G G A A T A A A G G G A G A A A G GAA $A \operatorname{GGGGGGA} G A A A A A G G G A G G G$ A GCAAA $A \operatorname{AGGGAAAGCCGGAGACAAGGCCGGAAAAGGCCACBG}$ G G G G G A A G A G G G G G A A G G A A A $\mathcal{A} A A A A G A C A G A A G G G G G G G G G G$ A A G G A T G G G G G G G GAGAGCAGACCCAAAGGAAAACACCGGAG G G G G G A GAAAACAGGAAGGGGAGGAGAGGGAGGAGGAGAA AA G G G G A A G A G G A A A A C C G G G GAACAGAGAGGGGCCGGGGAA GA G G GAAGACGAGAAAGAAAGAAGAGGGCCGAGAAAGAAAACAA $G G A A C A G G A G G G G G G G G G G G A A A A A C G C G G G G A A G G A G A A G A$ A A G G G G A A C C G G G A A A C G A A A G G A A G GAA G G GAAAAAA A A G G A A A A G GCAAAGGAAAAGGGGGGGGGGGAGAGAAAGGAGAGCA ACGAGAAAGAGAAACCGAGGGGAAAAAAAAGGACACATAAGG
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 $G G A A G G C A A G A G G G G A C A A A A A G A G G G G A A C A A G A G G G A A A G$ TTGACCAAAAAAGGAAAAGGCAGAAAAGACAGGAGBAAACAG G GAAGAGGCCAAAAGGAAGGAACCAGACAAAAGGCCAAACGG G G G A A G G G C C G A A G A A G G G G G G A A C C G G G G A G A A G G G G A A A A G G G GAA A A CA GACCGGGGAAGGAGAGAAAACGCAA GGGAGAA $G G C C G G G G A A G A A A G G A A G G G G G G G G A A A G G A A A A A G G G G G G$ A G G A T T A A G G A A C C G G A A A GCCAGAGACAGGAAGAAA GAG G G AAAAAGACAGAAGAGGACGGCAGGGAGAAACCAAGAAAAAAA GAAAGGGGGGAAGGGGGAGGCCGGCAAGGGAGGGAAAAAAGG AA G GAACAAAAACCAGAGAAAGAGCCAAAGAGAGAAGGGGGG A A A A A A A G G G G A G G G G A A A GAGAGGGGGAAGGAA G GAAAGAA G G G GAA A G G G A A G G G G G GAAAA A G C C CAAAAAAGGGGGGAAAA G G C C G G A A G A A T C C A A G A G GA G G A A A A G G G A G G G G A A A A G G G A G GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G C \subset A A A A C A G G G G A A A G A A C C A A A G A A A G G G A G$ AA $A \operatorname{GAA} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A C A A A A A A G G A G A G G A A A A G G A G A G A A$ G G A A A GACAAGGGGAATTAAAGGCAACAAAGGAGAACAGGAA A G GACCGAAAGGAGAGAAAAAAGGGACCGAGGGAAGAAGGAA $G G A G A A G G A A G G G G G G G A A A A A A A A G G G A A A G G G G A G A A A A A$ A G G G G GAGGAAAAAGGACGAAGGGGATAAAGGAAGAGAAGAC

G GAGGACGAAAGGAGAGGGGAAGGGGAAAGGGCGBAGGGGGG G G A A G A G G GAAAAAGGAAGGCCGAAGAAGGCCAACCGGGGAG G G GAGGAGAAGGGGAAAAAAAAGGGGAAGAAGAAA GAAAGGG G G G G G GACAGGGAAGAAGGGAGGGCACCGGGGGGGGAAGAAA AAAAGGCCGACCGGAAAACCAGGGCCGGAGAAGGGGGGAAGA G G G G G G G A A A G GCCACACGAGAGAAAAAACGAAGGGAACAAG A A C G A A A G GA GA G G A A A A A GACAACAGGGGAAAAAAGGGGGA G GAGGACCAAGAGGGGAGGGGGCCGACAGAAGGAAGCCGAGA A A C A G G G G G A G G A A C C G G A G G A A G G G G G A GAGGGAA A
GAGAGGGGGGGGGCCGGGGAAGGGGGGGGGGGGAGGAAAGG A GA $A \operatorname{GA} A \operatorname{A} A A G G G A A A G G T T T A G A A G G G G G A G A A A A A A G G A G$ G GAGGAGGACGAACCCAAGGAGGGGGAACCGGGGAGAAAAAG G G G A A C G G G G G A A G A A G G A A G A A A G G G G A A C C G G A A C A G G G A G G G G GAGGGAGGAACCAGACGGGGGGCAGAGAGGGGAAAAAA GAGGGAAAAGGAGGGGAAACAAAAGGAAAAAAAAGAAGGGAG CACCGAAAGAAAGGAGGGGGAAGATAGGGAAGAAGGGGXAAG G GAAAAGGCAAGAGAGGAGGAAGAAAAGGAAACCGGCAAABG G G A A G A A C G G A A G A G A A A G A G G G A G GCCGGGGA GAGA G GA GA GAGGCAAAAAAAGGAAGACAAAGGGGGGGGGGGGACAAAGAC A A A A G G G G A A G A A GAACA $A \operatorname{ACCAAGAAGGGGAGAGGGAAGGAA}$ G G G GAAAAAAATGAGGAGAAGGATGAGGAGCCGGAGGGCCAG A A GAGGGGAAGGGGGGGGAAAAAAAGGAAAAGAAAAACGGAG G G G G A A G G G G G G G G A A A GAAAAAAAGAAGGAAGGAAAAACAA C C G G A A A A A A A G G G A G G GAAC CAAAAAGAAAAAA AA GACAGGG $G G A A A A G A G G A A G A A G G G A G A A A G A G A G G G A G C A G G T T A A G G$ G G G GAGAAAAGGCACCGGCAAGGGAGGGGGGGGGAAAAGAGG $C C G G C C G A G G A A G G G A G G G A G G G G C A T A A G G G A T G A A A A A G G$ A GAGAGAAAAAACCGGAAGGAAGAAAGGGGGGAACCCCAAGB GAAAAGGAAAGGAACCAAAAGGAAAACCGGGGAACACCAABA A GAA $A \operatorname{GGG} G \mathrm{G} G A A G A A A G A A G G G G G G G G A A A T A G G C C A G A G A A$ A A A G G A G G G G G A A G A A G G C C C C G G A A A A GAGGAAAA G G GA G A GAAACAGGAACCGGGAGAGGAATAAGCCAAGGGAAAGAACCC G G G G G G A G G G G G G G A A A A G GAA A GAAAAA AAAAAAA A GA GA A $A G A A A A C C G G G G G G G G G G A G A A A A G G G G C A A A G G G G A C A A G A$ A G G A A G G G A A G GAAAAA A A A GAAAAAAGGACAAAAA GAGAA GA
 A GAGGGGGGGGAAAGGAGGGCGAGCCAGGGGGGAAGGGGAAA
 G GCCGAAAGGAAAGAAAAAAGAGGAAGGAAAAGGAAAAAAGAG
 AAAAGGGGAACCAAAAGGAAAAGGAAAGGGGAGGGAGAAGAG A A G A A GAAAAA A $A \operatorname{A} \operatorname{A} A C G G A A G G C C C A A A A G G G A A A A A A A A G G$ AAAAGAAAAACCAGGGGAGAGAAAAAAGGGGGAACCGGAGGG C C G A G A A A G G G G G A G G G GCCGGGGAAAAGGGAAAA GAAA A A A G GAAAAAAAGGAAAGAAAAAGGCCAAGAGGGGGGGGAAAAAA G GAGGAGAAAGGGGAAGAGGAGAGGAGGGGAGGGAGAAAAAA ATCCAGGAGAAAAAAGGGAAGGCAAAAAAAAAGGAAAAGGAA
 G GTTCCAAAAGAGGGAGGAACCCCAACCAAGGGGGAAAGAAA G G G G A A A G A A A A A G A A G G A A A A G G G GAAA G CA GACAA G GAAA G GAGGACCCGGAGGAGAAGAAGAGACGAGAACGGGGAGCAAG A A GAAAGGGGGAAAAAGGCCGGAGAAAAAAAACCAACCACAA G G G G G G A A A A C C A A C C A A G GAACC G G C C G G G G A A G G G G G G G G AAAGGGCCACAAGGCAGAAGCAAGGGGGAGGGAGAAGGGGGG G GAAAAAAGGAACCAAGAAAGGAGGGACGGGGGGGGCAAAAC GAAGGAGGAAGGGGAAGAAAAGAGAGCCGAAGAAAGAGAGAG A A G G G GAACACAA $A \operatorname{A} A A G A G G G G A A G G G A A G A A A A A G A G A G A A$ A A G G G A G A G A A A T T A G G G C A A CA C A A A A G G G G GA G A G G G G G A AAGGAGGAGAAGCGAGAAAAGAGAAGGAGAAACCAAAAAAAG

G GCAGGGACAGGGGGGGGAAAAGGGGGAGAAAATCAAGGACA G G A A A A A G A A G G G A GAGGGGGGGGGGCCAAAACCGAAAAAAA A A A A G GCC G G G GAA A G G G A A G GAA A G G GAA A G T T C C C C C C C A A GACCGAGAAGGGGAAAGAATCCCCGAAAAAAGGAACTTGGGG AAAAGGAAAAAAAAGGAACCGAAGGAGGGGAAGAGAGAAAAA G GAAAAGGGGAAGGAGAAAGACAGGGGGAAGGAAAAAAACAC A A C A G A G G GAA GAAAGAAAGAGGACAAGGAAAGA GAACACCA CAGGAAGGAAAGAAAAACAAGGAAAGGCGGAAAGGGGGGGGG A A A A G GAAAGAACCAAAACCAGAGGAACGGAAAACCAACCBA AGCCAGAAGAAAGGGAAAACGGGGAGGACCGAAAAAAAGAAG AAAGAGAAGAAGGGCCGGGAAAAAGAGGAGGGCCGGAAGGCC
 G G G GCCGGGGGGCAAGGGAGGAGAAAAAGAGAAACCAAAAAA G G G GAAG $A$ GAGGGAAGGAGGAAAAAAAGAAAGGAAAAGAAGAC AAGGCCGGGGAACCCCAGGAGAAAAGGGAGGAAGAAAAGGGG AAAAAAGGAGCCGAAAAGAACAAGAGGAGAAGAGGGGAAAGA A G GAAA A A G GAACAAAAAAACCGAAGACCAGAGGGGAGACAA CAAAAAAAAGGACCCCAAAAAAGAGGGGGGAAAGGACCGGGG GAAACCGGGAAGGAAGGGAGAAGAGGAAAGAGGGGGAAAAGAG A GA $A$ A A A A G G G G G G T T A A A A C C G G A A G G G G G G A A A A G G G A G A AAAGGGGAAGACAAACGGGAGGGGAGACGAAAGGAGAATTGA
 G G G A G G G G A C G A A A C C G G G A A G G G G A TA $\mathcal{A} G G G G A G G G G A A G A$ A A A G G G A A GACATTAAGAGGGGGAAGGGAAGGAAAGAAAAGG AAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGGGG A A GAGGAAAGGACAAGGACAGGGGCCAGAACAAGAACCAAAA AAAAGGAGCAGAGGGGGGAACAAGAAGGGGGGAAGGAGAAAA GGCCAAAAAAGGGGAAAAATGGGGAAGGAAAAGGAAAAAABG GAAAGGGGAAGGGGAAACGGAAAAGAGGCCGGAAGGGAGAAC $A C A T A G A A A A A G A A A A A T G A G G A G C A G G G G A A G G A A G G G G G G$ G GCCGGGGAAAGCCAACCGGAAAAAAAAACGGAGGGACAGAG AAGGAACCAAGGGGCAGGCCGGCCGGCCGGAGGAAGGAGAGG G GACGAAAGGAGAAAAGGAAAAAAGAGGGGCAAAAGAAAAGG G G G G G GAA A GAACCGGAAGAGGAGGGCCAGAAGGGAGAAAGA A A G G A A C A G G A A G G G G A G G G A A G G G GACCCAGGAAGGAAACC A ACAACAGAAAAGGGGAAGAGGGGCCGAGGAAAACAGAAAAA GACCAAGAAAGAGAAACCCCGGGGCCGGCAAAGAAAAGGGAA $C \subset C A G G G G G G A G G G G G A A A A G G A A G A A G A A A G G G A A A A A G A G$ G G A A G G G G G G A A G A A G G A G A G G A A A G G G G G A A A C G A A A A A G G G G G G G G G G A A A G A A G G A A G G G G G A GAGAAAC A A A A A GAC GA G G G G G G A A A A GAGGCAAGAAGAAAAGGACCAGGAGGAGAACCAG GGCCAAAGGAAACAAGCCGGAAACAAAAGGGGGAGGCCAA GA AAGGCCGGGGGGAGGGGGGGGGGAAAAAAGAAGGGGGGCAAA A A G G A A A A A A G G G G G G A A G A CA $A \operatorname{A} A G G G A A G G G G G A G G G A A G G$ G G A A A A A CACAACCGGAAGGAAGGCCGAAATAAAGGGAGAGA AAACGGGGAAGAAACCAAGACACCGGACAAAAGGGAABAGGG GAAAAGAGGAAACCCCGGCCAGAGAAGGAAGGGGGGCCGGGG G GAACCCACAAGAGAAGAAAAAAAGGAACCCCGGAGAGAAGA G G GACCGGGAAAGGGGGGCCGGGAGGAACCGGGGAGGGAAGA G GAGGGGGAGGGGGCAGACATAGGGAGGGAAAGGAGGGAGAA G G G A A GACCCGGCCGGCCGGAAGGGGAAGGGGAAAAAAGGAG CCGGGGAAGGAACCGGAAAAAACCCCGAGGGAGGCCCCAAAA A A A A G G C A A A G A A C G G A A A A G G G G G G A A G G G G A A A A A C G G A A G GAGGGGGGGGGAAGGGAAACAGGGGGAGGGAGGGGAAAAAG $A G G A G G A G G G G A A A A A G G G G G G G A G G A A G G A A G G B A A A G G A A$ A A G G G A A A A A A A A GACA A GAGGGAAGGAGAAAGGGAA GAG G G
 G GAGAGAGAGGACAGAAAACAGGAAGGAAGCCAGGACACCGG $G G C C A G G G A A G G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G G$

CCGGAAAAAAAAGGGGGGAAAACCAAAAAAAAAAAGGAAAAG G G G G A A G A GACCACACAGCCCACCGAAGAACAAGGAAAAAAG G GAA A G G G A A G GAAAAAAAAAAAGGGAAGATGAGGGAAGAGAG A GAGAGGAGGAAAGCCAAAAGGGACAGGGGGGGAAACCAAAG A G G G GAGGACAGAGAAGGAAGGACGGAGCCAAAAGGAAAGAA A A A A A ACCCCCCCCAAAACACCGGGGAGAAAAAAGAGGAGAA AAAGGGCCAGGGAACCGGAGGGAAGGGGGGAGGGGGCCAAGA CCGAAAGGAACCCCAGAAAAAAAAGAGCAAACAAGBAAAAGG AAAGGGAAGGGAAGCCGGCAAAGGGGGAGAAAAAGGG
GCCGGAAGGAAGGAGGGAAAGAGCCAACCAGGGGGAAAAGG G G A A A A C C G G A A GACA $A \operatorname{AGGGGGGACAGAGGGGAAAAAAGGGG}$ G GACGGAAGAGACAGGAGGAAGGGAAGGAAGGGGCCAAAAAA $G G A A G G A A A A G G A A G G A A G G G G G G G G A A G G G G A A G G A A A A A A$ G G G G G G G G G G G G A A A A $\mathcal{A} G G G A A A A A C A A A A A A G G G G C C G G C D$ $C C G G A A C C G G G G T T G G G G G G A A A A A A A A G G G G G G C C A A C C A A$ G G G GAAAAAAGGAAGGGGAAGGAAAAAAAAAAGGCCAAACAA
 A A G G G G G G A A G G G G G G G G A A A A G G G G A A A A $\mathcal{A} G A A A G G G G G G G$ $G G A A A A A A A A G G A A A A G G G G G G C C G G A A C C G G A A G G G G A A A A$ A A G G G G A A A A A A A A A A A A A A G G G GAAAAACACC GGGGGGGGGG G GAA A GAAAACCGGGGGGGGAACCCCGGGGGGAAGGGGAAGG G GCCAAGGGGGGAAGGCCAAAAGGGGCCAAGGAAAAAAGGAA AAGGGGGGAAGGGGAAAAGGGGAAGGAACCGGGGAAAAAAAA AACCAAAAAAAAGGAAAAAAGGAAAAAAGGAAAA GGGAAA G G $A$
 G G G GAA $A \operatorname{GGG} G \mathrm{G}$ GAAAACCGGAAGGAAGGAAAAAACCCCAGAA
 G A A G A G G G A A G G G G C A G G G G A A G G A C C A A G GACA $\mathcal{A} G A C G G G G$ C C G A A A A A G G G G G A A A GAAACCGGAAAAGAAGCA G GAAGGGG C CAGAAGGAAAAGAGGAAGAGGAAAGGGGAAGAAAGGGAACA GAAGGACGGGCCGGGGAAAAGGGGAAAGGGGGCCAAGGAAGA G GAGAAAAAAGAAGGGAGAAGGGAAAAAGAAAAAGGAAGAAA A A G GAAAGAGAGCAGGGGGGAAATGGAAGGAGAAGGCCACAG A G A A G A T T G A C A G A A T A A C C G G G G A A C C A A G GAAAAAAAA A G A A G G G G A A G G C C G G A G G G A A G G G G G G A A G G A A A A C C G G C C G G A A G G A A G G A A A A G G G G A A A A C C A A G G G GAAAAAACCCC G GAA C CAAAAGGAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA A A G G G G G G A A A A G G A A G G G G G G G G G GCCAACCAA G GAA G G G G G G G G G G G G A A G G A A G G A A C C A A A A GGCCAAAAAAAAAA A GAA G GAA A GCCGGGGGGAAGGAAAAAAGGGGCCGGAAGAAAAAGB AAAACCAAGGGGGGGGGGTTAAGGGGGGAAAAAAAACCAAAA A A A A C CAACCAAGGAAAAGGAACCAAAAGGGGAAAAGBAAGG G G G G G GAAGGAAAAGGAAAAGGAAGGAAAACCAACCGGAAGG A A A A A A G G GAGGAAGGAGAACCAGGGGGAAAGGGCCGAAACAA G GAAA A A G GACCAAAGAGGAAGGAAGGGGAAAGACCTTAAAA A GACAAAAGGGGCCGGAAGGAAGGGAGGGAACAACAAAGAAG GACCAGGGGGAAAGAAGGGCGAGAAAGGGAGGGAAAAAGGGG GGCCCCAAAAAAAAGGGGGGAAAGGAAGCCGGAAGGCCAGAG AAAGAGCAAGAAGGAAGGAAAAGGGGAAAAGGGGGGGAAAGG G G G G A A A A A A G GAAAA $A \operatorname{A} G C C A A G G A A G G A A G G A A C C A A A A G G$ A A G G A A A A C C C CAA A G G G G G G GAGTAAAAAGGAAGGGAAAAA G G G G A A C C G G A A G G G G G G G GAA A G G GAAAAAAAGGG GAAAA G G G G G GCCGGAAAAGGAAGGCCAAGGAAGAAGAGGGGAGGCCAC G GAAGGAAGGCCAAGGAACCAACCGGGGAAAAGGAAAACAAA C CAACCGGAGAGAAGAAAAAAAGGGGAAACAAGAGAAGAGGA A G G G A A A A A A G GACAGAGCCGGAAAAGGGGCCAAGGACAGAA G GAGGGAAGGGGGGCCGACAAGGGGGAAAGCCGAAGAGAAGB G G A G G G A A G G G A C C G G A A A A G G C C A GAGCA A A G G A A A A G G G G $G G A G A G G G A A G A A G G A G G A A G G A A A A G A G A G G G G G A G A G A A G$

GAAGGACAAGCCGGAAGACAGAAGATAGGAAAAGGGGAAGAT CACCAAGAGGCCAAGGAAGGAAAAGGCAAGACAAACAAAAGG A GAGAAGGGGAAAAGGCCGGAGGGAAAAGGGAGGAAAAAGAA AAGGAAGGGGAGCAGAAAAGAGGAGGCCAGACGGAGGGGGGG A A G G G G G G A G G A T T A CAA A G G G G G G G G GAA A G G G G G G G A A A A A A G G G G G G G G G G A A A A A A A GAGGAAGGGAAAAAGGGAACAAC A GAA A GAAAACCGAGGAAGGAAAAGAAACGGGCCGGGGAAAG C C CACCAA G G A A A A G GAAAAACAGGGGGAGCCAAAGAGAGAA A A A A A A G GCC G G G G G G GAGGACAACCAGGGCCAAAAAGAGAA A GAAAAGGAAAAGGGGGGGGGGAGACAGAAAGGAAGAAGGGG GACAAGGGGAACGGGGGGGAGGGGAGGGCAAGAAGGAGAAGA C CAAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{GA} A \mathrm{G} G A A A G C C G G A A G G G A G A G G G A G A A G A A$ A A G GAA $A \operatorname{G}$ GAAAAAAAACCGGGGAAGGAAAAAAAA $A A G G G G G G G$ C C G G A A G G A A G G A A A A T T G G G G A A A A A G A G A A G G A A G G A G G G
 C C A A A A G G G G GAGGAGAGAGGGGAGAGGAAAAGGGGAAAGA G A G G A A G G A G GAACCTTCCGGGGAAGGCCGGCCAAGAGAAAAG A G A G A A G G G G A A A G G G G C G G G G G G T T G G A A A A G G A A C CAA A A G G G G GAAA $A$ A $A \operatorname{A} A A A G G G A G A A G A G G G A G A A A G G G A A A C A A G G$ A A C C A A A C A G A G A A C C G G G G G G G G A A C C A A A A G G A G A G G G G G G G G GCCGAGGGGAAAGAAGGACAACAGGAAGGAAGAGAGAGA GAAAAGCCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGGAA A A $\mathcal{A} G A A G G G G G G G G G G G G G G A A A A A A C C G G G G A A A A A A G G G G$ A A G G G G G G A A G G G G A A G GCCGGTTAAGGGGAAAACCGAAAAA G G G G G G A A G G A A A A G G A A G GAA A G A A A A A A C CAAAA A G G G A A G G G GAA $A \operatorname{GCCA} A G G A A A A G G C C A A A A G G G G A A A A G G A A G G G G$ $G G C C A A G G C C G G G G A A G G G G A A A A G G A A A A A A G G A A A A C C G G$ G G G G G G G G A A A A A A G G A A A A C C G G G G G G G GAA G G C C A A A A C C
 GAAGTAAAGGGGAGGGACGGAAAGAGAAAGAAGGGAGGAAAA GAGAGGCCGGAAAAGACCAAGGAACCACAAAGCCAGAGAAGA AAAAGGGGAAAAACGGGGAAAAGAGGAAAAAAGGAAAGAGAA G G G G G G GAGGAAAAAGAGAAAAAGGGAACACAAACAAGACAA C C A A G G G A A A A GAA A G G G G GAAAA A A A A A A A G GC CAC G GAA GA AAAGGGCCAAGGAAGGGGACAGAAGGCACAGGAAGGCAGAGG $G G A A A A A G A C G A G A A A A A C C T T G G A A G A A A T A A A G G G G G G G A$ G G G A G A G G G G G G T T A A G G G G G G G G A A C C G A G G A G G A G A A A G G AAAGGAGGAGGGAAGAAAGGCGTTAAGAGAAGAAAGGGGAGG
 AAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAAG GAGAACAAAAAACAAAAAGGAAGGAACCAAGGGGAAGGAAAA C C A A A C G G A C A A A G A G A A G A G G A A G A G G G A G G G G A A G G C A C C AAAAAAGGGGGAGAGGAGACGGCCGGGGGGGAGACAGGGGAG A A A A A A G G A A G GCCAAGGCAAAAAAAAAGGCAGGGGCAAGAG A A A A G A G A G G A A G G G G A A CAAAAA A A A A G G G G G GAA G G GAA A GAGGGAAGAAGGAAGGGACACAAAAAGGAAAGAACCCCAAAA
 CAAAAAGAAGAGGACAAAAAAAGGAGAGGGGGAAGGGGAAGA G G G GAA A G G GAACCGGAAAAGGCCCCAACCAAAAGGAAGGAG GACGAAGGAAGGGGGGGAAACCGAAAAAAACCGGAAGGGGCC A A A A G GAA A A G G A G C A G GA TAGGGGGGGAAAGGGAGGC G GAA GAGGAGACGGGAAGAGGAGGGGGAGGAACCAGGGCCGAAGGA A G A G A A A A G G C C C C G G G G A G A A G G G G G G G G A A G G C C G G A A A A G G G G G GAA $A \operatorname{GGGGGAGGGGCAAAAACAGGGAAAAGAGGGGCC}$ $A A C C G G G A G G G C G G A T A G A A G G G G A A A A G G A G A A G A A C C C G G$ A A A A A A G G A A G G C C G G G A G A A GAGGGGGGGAGCGAGCC G GAA A G GAAAAACAGGCCGAGGGAGAGGCCGAAAAAAAGGAGCCAA CACCGGAAGGAAAAAAAACCAAGGAAGGAAGGGGAAAAAAAA AAGAAAAAGGAAGGCCGAGGGGAGCCAGCAGGGGAGCACAAA

A A A A A GAGGGAAAAGGAACCAAGGAAGGGGAAAAAAGGGGCC $C C G G A A A A G G A A G G A A G G G G G G G G A A A A G G G G G G A A G G A A A A$ GAGGGACAAGGAAAGAAGGAAGCCAAACAAAACCGAGGGGGG $C C G G A A G G A G A G A G A A A A A A G G A C G G G G A G G G G G G G A A A A A A$ $C \subset A A A A G G C C A A A A A A A A A A G A C C A A A A G G C A C A G G G G G G A G$ A A A G A A A T G G A G A A A A A A C C G G G A G GAACCGGAGG GAAAAAA C CAAAAGGGGGACAAAGGGGGGAAGCGGAGCCAACAAAAAGG G G A A A G G G A A G A A A A A A A A A GACCGAGGAACCGGAACCAGAC $A G T A A A A G G A G G G G G A A G G A G G A A G A G G A G G A A A G G C$
AAAGAAGAAAAAAGGGGGGGGAAGGCGAAGGGGAGAAGGGG A G G G G GAGCCCC GAAAAAAAAAGAGGGAGGAGGGGATAATAAA C C G G A G G G A A A A A G G G GAC C $\mathcal{A} G G G G G G G A G G G G A G B A A A A A A G$ GAAAGGCCGAAGAGAGGAAGAAGGAAAAGAACAGACGAGGGG $A A C C G G G G A A A G G A A A G G A G G A C C G G A A A G G A G G A A G G A A G A$ AAA A GAAGCAGGAAAAGGAAAGGGAGAAGAAAAAGGGAGGGA CAGGGGGGGAACAACAAGTAAAGGGGGGGGGGAAACAGAAAG GAGGGAGAGAACCCAAAACAAGGGCAAAGGTAAACCACAGAA A A A A G GAGAGAAGACCAAGGAAGGAATAAAGGAAGGCCAGAC AAAGGGGGAAAAGGAAAACAGAGAAAGGAAAAGGCAAAAAAA G GCC G G A A A G G A G A A G A G G G G G A G GAAGGAGGAA G GAAA A G G AGGAAAAGGGAAGGAAAAAAAGCCGGCCAACCAAGGGAGAAA A GCCGAAAGGGGAAGAAAGGAGGGAGCCGAAAGAGGGAGAAG AGACAAAGAAAAAAGGCCGACCGGAAGGAAAAGAAAAGAGGA A A $\mathcal{A} G \mathrm{G} G A A A A A A A G G G G G G G A G G G G A A A A A G G G G A G A A A G G A G$ GACACCAATTAACCCGATACAGGGAGACGAGAAAGAAAGGAG CAAGCCAAAAAGAAAAGGGGAGAAGCAGCAGGTTCCAGAAAA GGCCCAAAAACCGGGGGGAAGGAGCCGAGAGGGGCCGGAAGA A GAGGAAGAAAGAAAGAGGGCCGGGAAGAAAGACGGAAAAGG G GACCCAAGGAAGGAGAAGAGCGAAGCATAAGGGAAAAGGGG
 C C G G G GCCGGAGGGAAAAGGAAAAGGAGGGAAAGAGAAAAAG G GAAGGAGGGAGCAGGCCGGAGGACCACAGGGGGAAGAGACC A G G GACAGGAGGAGGGCCAACCGGGGAAGAGAACGACAAAAG A G G GCCAAGGAAGGGGCCTTAGAAGAGGCCCCAAAAGGGGAA G G G G G GCCAAAAAAGGCCGGAAGGAAAAAAGAGGAAAGAACC GACCAAAAGAAAAGCAGAAAGAGGGAGAAGAAGAAAGGAGAG CAGGGGGAGGGAGAAAGGGGGGGAGGGGGGGGAAGGGAAAAA ACAGGGAAGAAGGGGAACGGAAGGAAAAAAGACCAAGAAAGA G GAGGAACGACAAGAGGAGAGAAGCAAAGAGATTAGCAAGGG C C A A A G G G A G G A G G G A T T G A A G A A A A A G G A CAA $A$ G A A A G G G G GAAGGACCGAAAGGAAAGCCACGAGAAAAGAAAAGGGGAGAA AA G G A A A A A A A A G GAAAACCAAGACAAAGGGGCAAAAAAGGG G G GAGAAAACGGGGGGGGAAAAAAAAAAAAACGGGAAGGGGG
 G G A A T T A A A A A A G G C CA A G G G G A A G G A A A A G G A G G G C C G G G G G G G G G A G A G G A G A A G A G G G G G G A A A A G G C A C C C C A A G G C C A C CCGGAAAAAAAAAGCCAAGGCAGGCCGGGATAGGAGAAGGCC G GAGGGGGAAGGAAGGGGAGGACCAACCGGCCGGGGGGGGAA G G G GAAAAAAGGAAGGAAGGGGAAGGGGAAAGAAGGGGGGGA
 A A G G G G G A GAA $A C A A C G G A G A G G G C C G G G A G G A G G A G B A A C C$ G G G G G GAA $A \operatorname{A} A A \operatorname{A} G C A G G A A G G C A A G A G G G G G A A C C G G A A G A$ A A G G A A A A G G A A A A G G A A C C G GCCAAG GAAAACCGGGGCAAA G G G G G A C C G G G GAAAAGGAAGAGGGAAAGGAGGAGACAAGAG G G A A A A A G GACCGGAGGGAAGGGGGGCCAAAACC GAGGAAAA A A GAACCCGGAAGGAGACACGGCAACCAACAAGGGGAGABAA G GAACCAAAAAAGGAAGGGGAACCAGACAGGGGGCCAGAAGG A G G G G G G G G G A A GAAA A C A TA A G A G GAAAAAA A A A A G G A A A G G $G G A G G G A A G G A A A C A A G G G A A G G G G G A C A G C A G G G G G G G G G G$

G G G G G G G A A A G G G G G G A A A A A G GAAGCAAAAGGGAAAGAAAA $G G A A G A G G G G G G A A A A C C G G G G A A A A A A A A A A G A G A A G A G G A$ GAAAGGCCAAGGGGAAGGAGGGAGAGGGAAAACCAGAAGGGG GGGAGGACCCGGAGCAAGCAAAGGCCAAAAAAGGGGAGGGAG A GAAGGGAAGGAGACAGGCCCCGACCACGGGGGGAGAGAAAA G G G G G G A A A A A A G G C C G G G G A A C C G G G G A A A A A C A A CAA A G A GAGGCAGGGGGGAAGAGGAGAAACGGAAGGGGAAAAAGAGAG $G G A A A C G G A A A A G A G A A G G G C A A A G G G A G A A G C A C A G G A G A G$ A A G G G G G GCCAAGGCCAAGGGAAACCAAAGAAGGAGAAAGAG AGAAAGGGGAAGGGACAAGAAGAAGGAAAAAAGAGGAAGAAA A A G G G G G G A A G GAAGGCCAAAAAACCGGAAGGGAGGAAAAGB G G G G A A G A A A GCGAAGAAGGGGAAGGAGAAGGAGGGAACAAA G G G A A A GAGGGAAACCAAAAGGAAAAAAAAAAAAAAAA GAAAA C C A A C C A A G GCCGGCCGGTTGGGGAAGGGGAAAAGGGGAAGE G GAA A G G G G GAA $A \operatorname{GA} A A A A A A A A A A A A A A G G A A G G G G A A G A A A$ AA $A G G G G G A A G G A A G G A A A A C C C C A A A A G G A A G G A A G G A A G A$
 G G G G G G A C A G G G G G A G G G G A A G A A G G G A GACAA A A A TAA A A C G G G G G G GAAGACAGAAGAGGTTAAAGAAGGAAAAAAGACCAG GAACAGAGGGGGGGAAAACCAAGGAAGGAACCGGAAAAAAAA GGGAAAGGGGAACCAAAAGGCCGAGAAAAACAAAAAGAGGAA A GAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAGAA GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGGAAAAC
 GACACAAACAAAAAAAAGGAAGAAAAAAGGAAGGAAGGGGGG A G GAA A A A A A GAGGGGAAAAAAAAGAAAAACCGGAAGGGAGG AGACAAAAGGAGCCAAAAAACAGGAAAGAAGAAAAGGACAGA G GA $A$ A $\operatorname{GAA} A \operatorname{A} G \mathrm{G}$ GAAAAAAGGAAAAGGAAGAAAGGCAAGGGGG G GAA A A G G GAACAGCCGGGAAGGGGGAAAAAGCGAAAGAAAA A GAAAAGACAGGAAAAAGGGAAAATAAAAGGGAGAGCCACAA G GAAAAGGGGCCGGCCAAAAAAAAAAAAGGAAGGGGAAAAGBG G GAA A A GACAGGGGAAGGGGGAGGACGGGAAGAGAGGAGGGG A G GAGAGGCCGGAAAAAAGGGGAGGAAAAAGAGGGGTACCAG G G G G A G G A G G G G G G G A A A G G A A A G G G A G A G C C G G A C G G G A A G A A G A A GAA $A \operatorname{G} \operatorname{A} A A A G A A A A G A A G A A A A A C G G C C A A G G G G G G G G$ T T G G G G A A A A A A G G A A G G G G G G C C A A G GAAGGAAAACAAA G G CCGGAGAGCAGAAAGGAAAAAACAGAAGGAAAGGAGACGGCC GATTAGAAGGAAAAGGGAAACGGAGAAGAGAGAAAACCAGAG G G GCCCGGCAGGAAAACCAACCAAGGAGAGAAGGGGCAAAAA G G A A G G A A G GCCTTAAAGGGAGAGAGGAGGGAGAGAAAGGGG GAGGAAGGAGAAGGGGGGACGAAGGGAAAGGACCGACAGGGG A A A A A G G G A A A ACGCACCGGAAGGCCAAAACCAAGGGGGGGG G G G GAGAAAACCGGCAAAGGGGGGGGAAAAAAAAAAAGAAAG G GAGAAACAAGGGGAACCATAGCACCCCAAAAGGTTAAATAA GAAAAAGGAAAAAAGGGAAGAGGAGAGGAGCAGAAGAAGGAA CAAA $A \operatorname{AGGGAAAACCGGGCAAGAGAGGGCAAGGGGGGAAAA} G G$ A A A A G G G G G G A A A A T T G A G GAGACAGCAGGCCCCAC GAAAA G A GAA GAAGAGCCCAAAAGGATTCCCCAAAAAGCCCCAAAGAA G GAAGGCCAGGGGAGGGAACGGCAGGAACCGGAAGAAGAAAC A GAAAAGGGGAAGGGAAAGGAAGAAAAGCAGGGGCAGGAAAA $G G A A A G A A G G A A A G A G G G A A G G A A A G G G G A G G A A G G C C B G G A$ CAGGAAGAGCGGGAGAGGACGGGGTTGGCCGGAGCCGGAAGA A A A A A A A A A A A A A A G G G G A A A A A GAGAA GAAAAAAAGG G GAA
 G GAAAGAAAAGGGGGGACAGGGGAGGAAAAGGGGGAGAAAGA $G G A G A A G A G G A G A A T A A C A A C G G G A G A A A A G G A A G B A A G G G G$ G G T T G G A A A G A A A A C G G G C C C C G G G G G G G G G G A G A G G A G G A A GAGGGGGGGGGAGAAAGGGGGGGAAAAAAAGGAGGGGGAAAA G G G G A A G G A G A A G G G G G GAAAAAA A GAAAGCCAA G GCCGGGG

A G GAGGCAGGGGAAGGAACCAAAGAGGAACAACCGAAAAAGA G G A A T TA GTTAA A A A A A A A GAAAAGGAAGGCGGAGGCATXAA A A A A G A G G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A A AAAACCAAGGGGGAGACCCAAGGGGGGGAAAAAAAGGGGGAC GACCAAAAAAGGCCAAGGCAACGGGGAAAAGGAACCAGAAGA
 CAGGAGGGAAAAAAGGAGAGAACCGGAAAAAGCAGAGCAGAA G G G GCCAAAAGGGGGGAAAAGGAAGGGGCAAGAAAAGGAAAA GAGGGGACGAGGAAGGGGCCCCCCAAAAGAAAAAGGG
GCAGAGGGGCCCAAAAACCGGAAGGCAACGAACCCCACCGG AAGGAAAAAAAGAAAACCGGGGGGAAAACAGAAGAAGAAAAG A G G A A TAAAAA A $A \operatorname{A} A A A G G A A A G A A G G G G G G A A A A G A C A A A A A$ A GAGAGGGGGGGAGGGAGGGGGAAGAAAGAGGGGGAAAGGAA CAAGGGAAAAGGAGGAGAATAGAGCCAAGAAGCCGAGCCCGG AACCAAAAAAAAAACCAAGAAGGAAGGGGGGGCAAGAACAGA
 A A GAGGGAAAGGGGCCAAAGGCAGGGAAAAAAGAGGAAGGAA A A G G A A G GCCAAGGGGGGGAGAAACCAAAAGAGGAAACACAG G GAAAAAACCAGCGAGAGTAGGAAAAAACCAAGGGGAAAAAA
 AAAAAAGGCCCCAGGGGGAGGGAAAAAAGGGAGAAAAAGGGG AA $A \operatorname{GGG} \operatorname{G} A \mathrm{~A} A A A C C A A G A G G G G A A G G A G G A G G G G A A G A A A A A$ C C A G G G A A C C T T G G A A CACAAAGGCCAAGGGGGAA GA GAAA G A GCGAACCAGAGAAAGATGAAGGGAGGAGAGCGGAAGAAAGG G G G G G G G A A C A G G G G G G G C A A A G G G G A G G G G G G G G G A A G G G G G G G G A A A A C C A A G G A G G GAGGGAGAGAGAAGAAAA GAACC G G G GACTXCGGGGGGGAGAAGGGGAAAGAGGAAGAAGGAACAAA A GACAAAA $A \operatorname{A} A G G A A G A C G A A G G G G G G G A G G A G A A G G G G A A G G$ $A A G G G A G A G G G G G G A A G G C A A G A A A G G G G C G G G G G A A G A G G G$ GGAAGGCCAAAGGACCGGAAAAGAGAGAAAAGAAGGAGAAAA T T TAA $A$ A $\operatorname{T} A A A C A A G G G G A G A G G G A A G G A G A G G G A A C C A A B A$ AAAAAAGGGGCCGAGGAAAAAACCCACCAAAAAGAAGGCATT A GCATTAGGCAAGCAGAGGGGAGAGGAAAGAAGAGAAAAAGA GAGGGAAGGGAAGGAAGGAAGGGGGGGGCAGGGAAAAAACAA
 G G G G A A GAAC G G G A A A T T G G A GAAAAAGGGGGGAAAA $\mathcal{A} A G G G G G$ A A G GAGGGAGAGGGACAAAGGGAGGGAAGGCCAAGGCCACAG A A A A A A A A G G G G G G G G G G G C G G G GAGGGGACCGCC CAA G G G A
 G G G G A A G G G G A A A G A GCC G A A G GAAAAAA AAAA AA G GA GAA T GAGAAAGAGGGAGAGAGAAAAAGGGGGGAGAAAATTAAAAAG G G G G A A A A A A GACCCAAGAAGGAAGGGACCACAAAAGGAAGA G GAA $A \operatorname{G} G A A A A G G G A G A A A G A A G G C C G A G A A A G A A A G G G G A G$ A G G G G GCCAAAGAAACGGGAAGGAAAGACCAAAACCGGGGGG G GAACCAAAACCGGGGGGGGAAAGGGAAAAAACGAAAACAGA GAGAGGGGGAAAAAGAGGGACCAAGGAATTGGGGAAGAGGCC AAAGCAGAAAAGAACCAAAAGGGGGGGGAAGGAAGGCAAAAA
 G GAA $A \operatorname{GAA} \mathrm{~A}$ GCAAGGGCAGACAGATAAAAAAAAGAAGGAGGC A G G G G GAACCAAAAGAAAGAGGAATTAAAAAGAGAAAAAA GA $A G C C A A A G G G G G G G A G A A G G A G A G A G G G C A G G A A A A C C G G A G$ ACTAAAGAAAGAAAGGAAGGAAAACAGGAAGGAAAAAAAACC CAGGGAGGCCAAGGAAGGCCACAGGGAAAAGGGAAGGGAAAA G GAAAAAAGAACGAGGAAAGGGAAGGAGCCCCAGAAGGCAAA A A A A A A GAGGGAGGGGCAACGGAAAGAGACAAGGCAAAGGGG A G A A A G G A A A A GCCCCGGGGAACCGAAAAACCCCGGAACAAA
 $G G C C A G G A C G A A A A G G G G A G G A G G A C G G G G G G A A G G A A A A A A$ $A A G G G G G G A A G G A A A A A A C C G G C C A A G A A G G G A G G A G A T T A A$

C CAGAAAACCAGGAGGGGCCAGGGAAGGCCAAAAGAGGAAAA A A G A G A G A A TAGGGAGAAGGCCGGAAAGGGAGAGGAACAGAA GAAAAGGGACGGAAAGAGAGGGCCCAAAGGGAGAAGGAAAGA G GAAGGAGACGGAAGGAAGGAGAGGGAAGGAACAGAGAAAAA $C \subset A A G G A A A A G G G A G A A G C A A G G A A C G A G A G G G A A A A A C A G G$ G G G G GAGGAACCGAACGGAAGGAAAAAGGGGAAGAAGAGGAA G GAGGACCAGAAGGGAGAAGACAGGGGAACAGGGGGGGCAAA G G G GAAAAAAGGGGAAAAGGAAGGGGGGGGAAAGAACGACAA $A \subset A G G G G G G G A G G G A G G A G A G A G G G A A G G A G A A A G G G G A G G G$ G GAGAAAGGGAGCCAGAAAAGGAGGGGGGGAGGGAGAAGAAC G GCC G G G A G G A GCCGATTAAGAACTAAGGGGGGGAGGAAAA G A G G G A G G G G GCCGAAGAAAGAGAGAAGGAAGGAAAAAAGGAC A C G G G GCCGGAAGGGGAAAAAAGGCCGGAAAAAAAAGAAGAA G G G G G CAA A A A C C A G G G G G GC C A A GC GAA G G GA G G G G G A G G G A GAA $\operatorname{A} G A C G G A A A G A A G G G G A G A A A G G G C C A A A A A G G G G G G G$ GGCCAAAAGGAGGGAAAGATAGGGAACCAAAGGGGGAAAACC G GAGAGCCACAAAAGACAAAAGGGAACAAGAAAAGGGGAAAC TAAAGACCACGGGGAACCGACAGGCCAGGAGGGGGGAGAAAA AAAAAAGGAAACAAGGAGAAGGGAAAAGGAGAACCCGAAAAG $G G C C A A A C G A A G A A G A A A G G G A A A A A A A A A A A C C A A C C A A A A$ $C \subset G G G G G G A A A A C C A A A A C C A G G G G A G G A A A A G G A G G G G G G G$ AACCGACAGAGGAAGAAGAAAAGGAAAAAACCAAAGAGCCGG
 G G A A G G G G A A G G G A A C G G T T G G A A A A G G A G A G A A GA G G C A G A AGAAGGGGAGAGAAACAAGGAAGGAAAAGGAAAAGGAGACAG AACCAAGGAAAGGGGGGGAAAAAAGGAAGGAAAGAACAAAAA A GCCGGAAAAGGAAAAAAAAGGCCCCGGAGGGGGAGAAAAGG G GAA $A \operatorname{G} G A A C G A G A G G G G G G A A G G C C G G G G G G A A G A C C A G A A$ C C G G G G C C A A G G A G G G G G G A G A G G G G A G G G A G G G G G A A G G G G
 A A A A A A G G A A G GAAAAAA A $A \operatorname{A} A A A G G G G G G G G A A A A G G C C B G A A$ G GAAAAAAAAAAAAGGAAAAAAAAGGGGAACCAAAAGGCCAA A ATTGGAAAAAAGGGGAAAAGGAAGGAATTGGAAGGGGAAAA AAAAGGAAAAAAGGGGAACCGGAAGGAAGGCCAAGGGGAAGB A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} C \subset A A A A A A A G G A A A A A A A A A A G G A A$ A A A A G G A A G G G G A A A A G G G G A A A A $\mathcal{A} G G G G G G G G G A A G G A A A A$ $G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G A A A$ G G G GAA A G G G G GAA A GAA A GAA A G G G G GAA A GAA G GAA G GAA A A G GAA $A \operatorname{GGGGGA} A C C C C G G G G A A A A G G A A G G C C C C G G A G A A$ G G A A A A G G A A G GCCAAAAGGAAGGAAGGAAAAGGAAAA GGGG
 A A G GAAGGGGAACCGGAAAAAAGGAAAAAAGGAACAAAGGCC C C G GAACCAAAAAAGGAAGGAAAAAAGGAAGGGGAAGGAGAA G G A A C C G G A A G GCC G G A A A A G G G G G G G G G G A A A A G G G G A A A A C C G GAA $A \operatorname{GGGAAACCCCAAAAGGGGAAAAGGAAAACCGGCCGG}$ $C C G G A A A A A A A A A A C C G G A A A A G G A A G G A A G G G G C C T T G G G G$
 G GAA $A$ GAAAAAAGGAAAAAAAAGGAAAAAAAAGGAACCCCCC AAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGGAAAA G G G G A A A A A A G G A A A A A A G GAACCCCAAGGGGGGGAAAAA G G G G G GAAGGGGAACCGGAAAACCGGGGGGCCAAGGAAGGAAAA A A A A A A G G G G G GAA A G G G GAAAAGGAAAAAAGGAAGAAAAA GAG AAGGAAAAGGAACCAAAAGGAAAACCAAAAAAGGAAGGCCGG G GAAGGAAAAGGAAAAAAAAAAAAGGGGGGGGCCGGAAAAGG G G A A A A A A A A G G A A A A A A A A A A G GAA G G G GAACC C C G G G G G G A A T T G G G G G G C C G G G G A A A A $A C G G G G A A A A G G G G G G G G G G G G$ G GCCGGGGAAAAAAAAGGGGAACCGGAAAAAAAAGGGGAGAA G G G G G G A A G G G G G G G G CC C G A A A A CCGGAAAAAATTAAAAAC AAAACCCCAAGGAAGGAAAAAAAAGGGGGGAAGGGGGGGGGG
$C \subset A A G G G G G G G G G G A A A A G G A A C C C C A A A A A A A A A A A A G G G G$ G GAACCAAGGAAGGGGAAAACCGGAAAAAAAAAAGAAAAACC

 G GAAAAGGAAAAGGAAGGGGAAGGGGCCGGGGAAAAGAAAAA G G G G A A A A A A A A G G G G A A A A G G G G A A C C A A A A G G G G G G T T G G G G A A C C A A A A A A A A G G G G G GAAAAGGAAGGCCAAGAAAGAAA G GAAGGGGCCAAGGGGAAAATTGGAAGGAAAAAAGGCCGGCC AAAAAAGGAAGGGGGGAACCAAAAAAAAGGCCAAGGC
$C G G G G G G A A A A A A C C G G G G G G G G G G A A A A G G A A A A A A A A G G$
 G GAAGGGGAAGGAAAATTAAAAGGAAAAAAAAGGAAAA G GAAA A A A A A A A A GGAAGGTTAACCGGAAGGAACCCCGGAAGAAAAA GGGGAACCAAAACCAAGGAAAAAAGGAAGGGGAAGGAAAAAA G GCCGGAAAAGGAAGGAAGGGGAAGGGGGGAAGAAAGAAAGA G G G GAAAACCCCCCGGAAGGAAAAGGAAGGAAGGAAGAAAGA
 AACCAAGGGGGGAACCAAAAAAGGCCGGAAAAAAGGAAAACC GGAAAAGGAAAAAAAACCGGAAAAGGAAAACCGGAAGGAAAA A ACCAACCTTGGGGAAAAAAGGAACCAAGGAAGGGGGGAGAA G GAAAAGGAACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAAA A A A A A A G GAA $A \operatorname{GAAAAAAAGGGGAAAACCGGGGAAGGGGAACA}$ AA G GAAGGGGAAAAAAAAAAAAGGAAGGAAAAAAGGAAAAGG AACCGGAAAAAAGGCCCCGGAAAAAAAAAAGGAAGGGAAACC $G G C C G G A A G G G G G G C C G G A A A A G G A A A A A A A A G G A A G G A A G G$ G G G G G G G G A A C C G G G G A A G GAA $A \operatorname{GGGGGGAAAAGGAAAAGAAA}$ G G G G G G G G A A G G G G G G A A A A A A G G C C G GAA A G G GAA G G G G A A A A A A A A G G A A A A G GAAAAAAAAAAAAAAGGCCAA G GAAAGGGG G GAA A G G G G GAACCAAGGCCGGAAGGAAGGAACCGGCCAAAA A A A A A A A A A A C CAA A GAAAAAAAAGGGGGGGGAAGGGGGGGG G G G G G G G G G G C C A A A A A A C C T TAA $A \operatorname{AGGGGGGGAAAAGGAAAA}$ $G G C C A A C C A A A A A A G G A A C C A A C C G G A A G G G G T T A A A A A A A A$ AA G GAAGGAAAAAAAAGGAAAAGGGGAAAAAAAAGGAAAAAA AAAAGGAAGGGGAAGAGGGGAAAAGGGGGGAAAAGAAAAAGA ACGGAGAAGGAGGGGACGACCCAGGGGGAAGCAAAAGAAAAA GACCAAAGGGGGAAGAGGTTAAGGGGAACCCATAACAGGGGG A A G GAAAAAAGGAGGGGGAGAGGGGGAAAAAAAAAAGGGGGGG A A G GAA A G G G G G G GAGAGAAGGAACCGGGAAAAAAAAGAGAC GAGGGGGAGAGAAACCACGGAAAAGGAAGAAAGGAAAAGGAA A A A A G A C A G G GAGAGGAAAGAAACAGCAGGAGAA GAA GAGA G AAAGGGAAAGGAGGAAAAGGGGGAAGCCGGAAAAAGGGGGGG A A G G G G G G A A G G C C A A A GAGCACAAAAAAAGGGGGGAA G G GA G G GAGGACGAAGGGAAGAAACCACGGGGGGAAGGGGACACAG A GAAAAGGAAAAGGAAAAAAAAGGAGCAAAGAACAGGGAGAC C CAAACGCCCAAGGAAGAGGAAGGAAAAAAAAAAGAAAAGAG G GCC G A G A A A C A G G G G G GCCACGGAGAAACAGGGGGGAAAAA AC G GCCGGGGAAGACAAGGGGAAGAGAAAGAAAGATCAAAAG $G G A G G A A G C C G A A G G G A C G G A G G G A A G G G G A G G G A A G A A A G G$ G G G G G GAAAAGGGGGGAAGGCCAACCAAGGAAAGAAAGAAAA G G G G A G G G GA G GAGAGAAAAGAAAAAAAAAGGGAAGAGAAAA GAAAGGAAAAAGGGGGAAAGAAAAAACCAGGAGAGAAAGGGG AA $A \operatorname{ACC} C G A G G G A A G G A A A G A G A C A A G A A A G G G G A A A G A G A G$ G GCCGGAAGGAAACCGAGAAGGAAAGGGAGCCAACCAAGGAG AAGGGGAAAAGAGGGACCGAAAGGGGGGACGACGGAAAAAAC AAGGAACACCGAGAAAAGGGACCCGGCAAAAAGGAAAAAAAA
 C CAAA $A \operatorname{GGGAAA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A G G A A A G A G G G G G A G G A G A C A G A A G$ GAAAAGGAAAAAAGGGCAAGAAAAGGCCGAAAAAGGAAAAAA G GAAAACCGGAAGAAGAGACAAAGGGGGAGGGGGGGAAAAAA

G GAGGGCAATAGCCCCGGACGAGAGGGGGAAAGGGGAGGAAG GAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACCGGGGBAAA A A G GCCGGGGAAGGAAAAAAGGGGGGCCCCAAAAGGGGCCAA
 A A G GAACCAAGGGGGGGGAAAAGGGGCCCCAAAAAAAAAAAA AAAACCAAGGGGAAGGAAAAGGGGGGAAAAAACCAAAAAAGG G GCCAA $C$ G G GAAAAAAGGAACCAAGGGGAAAAGGTTGGTTAA G G G G G G A A G G A A G G G G G G G G G G A A G G G GAAAAAGGG GAA G G A A C C G G G G A A C C G G G G A A G G A A A A G G G G A A A A $\mathcal{A} G A A A G G G G G G G$ G G G GAA A GAAGGGGGGAAGGGGAAAAAACCGGGGTTAACAAA A A G GAA A G G G G GAAAAAACCGGGGAAAAAAGGAAGGGGGGAA G G A A A A C C C C A A A A G G G GAGCCCCCCAAGGCGCAAA GAGGGG G G G G G A A CAGAGAAAAAAAGACACGGGAAAAAAAGGAGCCCC GAAAAAAGAACCGGGGAAGAGGAGAGAGAAAACCGGGGAAAA G G G GAA A G G GAAAAAGACAAGGCCAAAAGGGGAAGGGAAAAG G GAA A A G G G GAAGAAAGGAAAAAGAGGGAGAAAAAACAAGAG CAAGGAGAAGGGCCCCAACCGACAGAAAGGGGGAACGGAGGG G GAGAGGGCCCCAAAGGGGGAGAAGAAGAAGAAAAAGAGAGA A GAGAAAGCCAAGGGAAAGGGAAAGGCCCCAAAGACAGGGCC $G G C C A G A A C A G A G G A A G G C A G A A G A A G A C A A A A A G G G G A C G A$ CAGGGGCCGAACACAAAAAAAAGAGAACGGGAAAAC GAAAAC
 AAAACCCCCCGAAGGGAGGGGGCCAAAACCAAGGGAAAGGAG A G A A G A A G G G A T G G G G A A G G G A G A GAAAAA A A A A A C C G G A A G A GAAA A G G G A G G GAAAAGGCCACGAGGAAAAACAAGAGAGGGG AACCCCAGAAAAGAAAAAACTAGAAAAAGCGGGAGAGGAGAA

 $A A G G G G A A G G G G G G G A G A A G G A G G C C C C A G G A G G G G A A G G G G$ $G G C C G G C G A A G A A C G G A A G G G A A A G G A A A C A A G A A A G G A A A G$ GAGGAAGGCAAGGGGAGGCCAAAAAGAAAATTCCGBAAAAGAG C C T T G G A A A GCC G G A G T A A A GACAGGGAGGGGAAAAGACAAA G G GA $\operatorname{GA} A C A A A A A C C G G G G A A A A C C G G A A A A G G G G A A G G A G A A$ G G G G A A A A G G G G A A G A A G G G G G G G G A GAAA A G T T A G A G A A G G
 C CAACCGGAGAAGAGAAGCAGAAAGGTTCCGACCCCGAGGGG G GACCCAGGAAGGACCAGCCAAAGAAGGGGGGGGAGAAGAAA G GACAGAGAGGGGGGGGGAGGGAAAGAACCTAAAGGAAGAAA G G G G G G A A C C A A G A G G G G A G A A A A A A C C GAGGACTTGGGGGA A A G G A A A G G G G G G G A A G GA A G GAAA A A A A A G GCC G G G G G G A A AAAAGGAAGGAAGGGGCCGGAGAGGGAGGGGGAAACGAGGAA GCGGAAAGAAGGAAGGGACAAAAAAAAAGGGGAAGAAAACGG AAAGGGAAGGCCGGGAAGAAAAAGCCAAGAGGACAAGGGGGG GAAACAAGGGAGGAAGGGAAGGAAGGGGCAGAGAAAGAAAAA
 GAACGAAGAGAGGAAAAAGGAAGGAAAAGGGGGGAA GAAA G G $A \operatorname{A} A$ G G G GC C C C G G C C A A A A G G A A G G G G A A G G G G G G A G A G G A G G G A A GAGACGGAGAGCCGAACCCAAACAGCCGGCCAAAAGAGGAG GAAGAACAAGGAAGACGGAAACGGGGAAGGCCGGTTGGAACC A G G G A G G A A C G G G A A G G G A A G GCCAGCCAACCCCGGAGCCCC C C G G A A A A A A G G G G G G G G G G G G A G G A A A C A A G G G G A A G A G G A A A A A A GAGGAGAAGAGGAAACCGGCCAAGAGGAAAAAGGGGG A A G G G GCCGGGGAAAAAAAAGGAAAAGGGGAAAAAAAAGGGG GGAACCGGGGCCAACCAAAAGGAAAAAAGGGGGGGGAAGGGG A A G G A A G G A A G GAAAAGGAAGGGGGGGGAAGAGGGAAAAAAA
 GAAAGAGGAAAAAAAAGGAGGAAAAGGGAGTTCGGGAAAAAA GAAGCCAAAAAACCGAGAGGAAGAGGAAAGCCGGAACCGAAC A A GACAAAGAAGCGAAGAAGAAAAGGAAAAGGAAGGGGCCTT

G G G G A A G GCCGGAAACAGAGGGGGAACAGAAGGAGGAAGGGA G G A G G G G G A G A C T A GAATGAGAGAGGACGGAAA G GACAA G GA C C A A A A G G T TAAAA A GAAGGAAAAAAGGAAAACCAAGAAAAA AA G G G GAAAAAAAAGAAAGGAGAAGGGGAAGGGGGGAAAACA G GAGCCAAAAGGAAAAGGGGGGAAAGTTGGCGAAAAGGAGAA A G GACCACGGCCGGAAGGAAGGAAGGGGAGGGACAAGGAAGG GAAAAGCCAAGGCCAAGAAAGGAAGGAAACAGGAGGCGCCBA GAAGGAAGAAAAAGAGAAAAAAGGGGAGGAAAGGGGGGAAAA G G A A G G G G G G G G G G A A C C G G A G A G A G G A G G C A G G G A A
GAA A G A A G G A A G G A A A G G GAA $A \operatorname{AGGGGGGGAAAAGGAAAAGG}$ CAA A ACGGGGAGGGAAGGAAAAGGAGAGACGGAAGAGAAGGG A A A A C A A A T T A A GAGAAAGGGGGGAGGAGGCCGAAAAAGAAA $G G C C G A G A C A G A G G A C A A A T G G G A A C A A A G A A G A A G A G A G G G$ AAGGAAGGAAAAGGACAAGACAGAAAGGAAAGGGGAAAAAAA A G G GAA A GCCAAGGGGAAGGGGGAGGAGAAGGAAGGGGACCA AGGCAAGGAGAGACGGAAAACCAAGAAGAAGAGGAAGGGAGG G G G G G GACAAAACCGGAAAACCAAAAGACACCGGGAAGAAAA G GCAAAATGGAGGGAAAACCGGAAGGGGCCAAGGGAAAGGGG $C \subset A A C C A A G G A G G G A A A A G G G A G G G A C G G G G G A A G G C C A G A A$ G G A A A A G G A A C CAA A A A A A A A A G G G G G G G GAA G GAAAA G GA A AAGGAAAACCGGAACCAAGGAAGGGGCCGGAAGGAAAAAAGG A A G G A A G G A A A A A A G G G G G G G G G G G G A A A A G G A A G G A A A A A A A A T T G G G G A A G GAA $A \operatorname{AGGGAAAAAAGGGGGGCCAAGGGGAAGG}$ A A $\mathcal{A} G A A A A A G G G G G G G G G G G G G A A A A G G A A A A A A A A G G G G G G$ $G G A A G G A A G G A A G G A A G G G G G G A A G G G G C X A A G G G G G G G G G G$ AAGGAAAAGAAGGGGAGGAGGGAAAGACGGCAGGAGAAAGGG
 G G G G G A C A C C A GAA $A \operatorname{GAA} A G A G A A G G A C A G A G A G G G G G C C G G$ $A G G G A G A G G G A G A G G G A A A G G G A A A A A A A A C C A A A A G A G G G G$ $G G T A A A G G G A G A G G A A C C G G A A G G G A G G A A A A A A G G A G A G A A$ GAGGCCAGGAGGGAGAGAGAGAAGGAACGAGGGAACAAGGCC $A C G G A A A G G G A A C A G G A G A G G G G G G G G G G G G G G G G G A A G A A A$ A G GAACGGAGGAGGGAGGTAAAAGAAGGGACCGGGGAAAAGG A GAG A G A A A G A A A A A A A A A GAGAGGGAGAAGGCCAA GA GAAA G G GAGACCGGGCCAAAAGGAGGAAGGCAAAGGAGAGGGAGGG A G GA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A \mathrm{~A} A C A G G A G G G C C A A G G A A A A G A C A A C A A$ GAGAAGACCCGGAAGGTTAACCAGCAAGGGGGAAAAAGACAA G GCCGGAAGAAGAGACCAGGAAGGGGAAAAAAGGAAAAGGAG
 G G A A A A A A G G G G G G A A G G G GACAAAAAAAAAAGGAAAAAAT T GCAGGAACACACAGGGGGAAGGAAGGGGAAGAGGAGGGCCCC AA $A G G A G G G A G G A A G A A G A A A A G A A A G A A C A A G A A A A A T A A G$ CACCAGCAAGGGGGAGAAGGCAAAGAAGGAGGAAGGGGAAAA G GAGAACAGGGGAAAAAACCGGACAGAAAGCCAAGGCCAGAA AACCGGAAAAAAAGAGAGGGGGGAGGAAAAAGAAGAAAGGAA A A A A G GAACCCCGGCCGGTTAAGGGAGAGGCCAGGAAAGCAA A A G GCCGAGGCCGGAGAAAGGAGGGGAAGGGGAAAAAAGGAA G GAA A G G G A A G GCC G GCCAAGGGGGGAAAAAAAAAATXGGAA G GAAAA $A \operatorname{A} A A T T A C A G A C A A G G A A A A G G A A A G G A G G G G G G G G$ G GCCGGGGCCAAGGAAAAACAGAGGGGGCAGAGGAAAAGAAG CAAGGGAAAAAGACGAGAGGAGAGGAAAAACCGAGACAAGCC GAAAAAGGACAAAAGGAGAAAACCACAAGGGGGGAAGGAGAG A G G GCCGGAAGGGGAAAAGGAAGGGGGAAACCAAGGAAGAAA G G G G G GCAAAAGGGAAAAGGGGGGCCGAGGGAGAGAAGCCGG C C G GAGAGCCAGAAAGAAACGAAAAGGAGACCCCAAGGACAA A A A A A A G A GAGGAAAAAAAAGGCCAGGGGGGAAAAGGGAACA A G G GAA A A GAACCCAAGGAACAAAAAAAAAAAAACCGGGGGG A A G G G GAAAAGGCCGAGGGGTAACAGCCAAAAAAGGGGAAAB AAGGGAAGAAGGGGAGCGGAAACACAATGCAAGGCCAAGGAA

A GACGAAAGAGGGGGGAGGGGGGGCCGGGGAAGGAACCAAAA
 $A C G G T T G G A A A C G A A A G G G G A A G A G G A G G G G G C A A G A G A G G G$ GAAGGAAGAAAACCGGAGAAAAGGGGGAAGAAAGGAAAGGCC A A A A A A G G A A G G G G GAGAAGGAGAAGGGCCAAGGAGCCAAAA A A A A G G G G G G G G G G C C A A A A A A A ACCAGAACGCAAAAA GAA G GAGGAGAGAAGGAGAGAGGAAAAACCGAGGCAGGGAAACCCC A A A A A A A A A A G G G G GAGACCAGGGAAAAGGAAAAGACCACAA GA $A$ A A A $A \operatorname{G} C A G G G G G G G G G A C C A A A G C G A A G A G G A C A A G G G G$ G G G GCCGGGGGGAAAAAAAGCCGGGGAGGGAAACCCAAGAAA C C GAGAGGGAACGGGGAAAAAAGAGGAGAAAGGGAAAAAAGA G GCCAGAAAACAAAAAAAAAGAAAGGAGACGGGGCCCCACBA A GAG G A TAGGGGAGGGGGAAAGAAAAGGAACCGGAACCACAA AAAAGGGGAAAAGAAAGGAAAAAGGAAAAAGGAAGAAGGGGG A A CA $\operatorname{C}$ GAGAAGGGGAAGAAGGGAAAAGAGAAAGGGGGGGGAG A GAAAAAAGGAACCGGGGAAGGAGGGCCAAAACCGGAAAAAG GAGAAAGAAAGACAGAGAAGAAACACAAGGAAAAAGGAAAAA A G A A A A A A A G G A A A A A A GAAAAACCCGCGGACAGCCAGGGGG GAGGAGAAGAAAGAAAAGAGAGGAGGAAAGAGGGAAAAAAGG G G A G G A G G G G A A C C A A G G G A GACCGGAAGGGAGGGAAAAG G G AGAGGGCCTTGGAAAGAAAGAAAAGACAAACCGGGGAAAAGG AAAAAGGGGAGGGAAAAGGAAAAAAGCCGAAGAACAGAAACC GAGGGGACGAGGAGAGAAAACCAGACGGGGAGGAAAAAAACC A A G G G GAGAAAAAAGGAAAGAAAAGGACCCGGGGCCAGAABAA GACCAACCGGGAGAGAAGAAAAGACAGAGGAGCCGAAAAAAG G GAA A G GAGAC $\mathrm{A} A \mathrm{~A}$ GAGAGAAAAGGAGGGGGAAGAGGCCAAAA AA $A G A A A A G G C C G G A G G A G G G A C A T T G G G G A A A G A C A G G G A G$ A A G G G GAAAAA A A A G G GAACCGGGGAAAGGGCAAAAAGAAAAG A GCCGAGAAGCCGGAGGGGAAGAGAAGAGGAAAACCAAGGGG AACCGGGGGGAAAAGGAGGAGAAAAAAAAAAAAGAACAGGAA A A G G G G G G C C G G G G C C A A A A T T G G A A G G A A G GCCG G A A A A A A $C \subset A A A A G G G G G G G G G G G G G G G G A A A A G G G G G G C C G G A A G G C C$ AAAACCAAAAAACCAAGGGGAAGGAAGGAAGGCCCCAAAAAA
 A A G A T A A G GAAA $A \operatorname{A} G A A G G A G G G A A A A A A G G G G A A A G A A C C B G$ GACCGGAACCGGTTTTGGTTCCGGAAGGTACCAAAAGGAACA AGCCGAAAGGAAAAAGCCGAAAGAGGAGACCAAAGGAAAGGG G GAAAAGGAAAAGGGGGGAAGGGGGGAACCGGGGAGAAAAAG A A A A A GCCACCAGGAAGGAAGGGACCCAAAAGAACCGGGGAA A A A G A A A G A G A A A G GAGAAAAAGGGGAGAA GAGA GAAAAG G G A G G GAAAAGGAGGACACCACGGGAAACCAACCACGGAAGGGG G G G GCCGGGGGGCAAGGACCACAGAGAGCCGGAAGACCBGGA
 ACGGCCGGCAACAGAAAAGGCCGGGGGGCCAGGAGGCAAAGG $G G A A A A G A A G G A A A A A C A A A G G G G A A G G G G A A A A A G A A A G G G$ G G G A T T G G A A C A G G A G A A A A A G G G A GCCAGACAAAA A A A G G A CAAAGAAAATAGCCAGACAGAAAAGGAAAAAAAAGEAGACAG AAAA $A \operatorname{A} G A G G C A A A A A C C G G A A G G A A A A G G G G G G G G G G A A G G$
 G G G A G GAACCGAGGAAGGAAAGAGAAGGGAGGAAGGGA GAAG
 AAAAGACCCCGGCCGGGGAAAAAGGGAGAGGACCGGAGAAGG
 G GCCCCAGGGGAGAACGGCCGAAAAGCCGGGAGAAAGGGGGG
 G GAGGAAAAAGGGAAAAAAAAAAAGGAGGGAAAAAAAAAGGG A G G G A C G G GAA $A \operatorname{G} G \mathrm{G} A A G A G G C A G G G G G G C C G G G A G G A C A A G G$ $G G A A A A A A A A C C G G A A G G G G A G G G C C G G A A A C G G A A A A A A G A$ G G G GAGAAGGGAAAGGGGGGAAAAGGAAGGGGGAAAAAGGCC
$T \mathrm{~T} A \mathrm{G} G A A A A G A A G A G G A G G G G G A G G G G G G A G G G G A C A A A A G$ G G A A G GACCCAACCGACGCCAGAGGGCCGGAAGGAGACAGAA A A GAAA A A A A G G G G CAACAGGAAGGGGGGGAAGGAAGAAAGA GAGGCCAAGGCCAAAAGGGAAAAACAAGGGAGCAGGAGAGGA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGAGACAGGGGA A A G G G A A A GAGGGGAAGGGAAGGAGGACGGAGAAAACAAAGA G GAACCAAGGGGGGCCAGGAACGAAGGAAGAAGGGAGGAGAA GAAAAAGAGGGGGGGAGGGGGGGGGGGAAGGGAAAAAAAAAA G G G A G A A A A A G G G G G A G GCAAAAGGAAACCCCCGAAGA
$G C C G G A G A A A A G G A A A A C A G G G A G G A A A G A G G A G G G A C A C G$ AAAGAAAGACAGGGAGGGAAAAGGAACAGAACAGAACAAGAA G G A A A GACAGAGAGGGGGGGGGGAAAACGGAAGGAAGAAA GA G G GAGAACAGGGAAAACCAACAGAAAGACCGGGAAAAGCCAT GCAAGAAAGAGGGGGGCCAAGAAGAAGACCGGCAGACBAACC G GAAGGAGAACCAAAGGAAGAAAGCCGAAAAAGGACGGAAA G AATAGGGAAAGGGGGGCCAAGGGAGGGGGAGGGGGGAA$G G G G G$ G G G G GAGACCAGGACCACCCAGAAAGACGGAAAAAGGGGGAG A A A A A A A G G G G G TAGAAGAACCAAAAGGGGCCAAGAAAAAGG AAGGAACCAAAAAAGGAAGGAAGGAAAAAAGGGGGAAACCAA A A G G G GCCGGGGGGAGAAGGAAAAAAAAGGGGAAGGAACAAA AAGGGGGGGGAAGGCCCCGGAAAAAAAAGGGGAAAAAAAAGG G GAACCCCGGGGAAGGAAAAGGCCAAGGAAGGAAGGAAAAGG G GAAAAAAGGAAAAGGAAGGCCGGGGAAGGGGAAAAAAGGAA $G G A A A A A A T T A A A A A A G G A A G G G G A A G G A A G G A A G G C C B G A A$ G GCCAAGGGGAAGGAACCCCAAAACCAAGGGGAACAAAGGGG AACCGGGGAAGGGGGGAAGGAAGGAAAAGGAACCAAAAAAGG AA $A G A A A A A A A A G G G G G G C C G G G G A A G G A A C C G G A A G G A A C A$ A A G G G G G G A A A A A A A A G GAAGGAAGGCCAAAGGAAAGAAAAC A A A A A A A A G G GAGGACAAGGACGGAGAAAAAGGAGGGCGGAAA $G G C C C C C C A A A A A G A G G G A A A A G G G G A A G G A A G G A A G G A A G G$ G G G G G G G G G G G GA $A \operatorname{AA} A G G C C C C G G A G G G G G G G A G A A G A G A A A$ T T G G GAGAAGCAGGAAGGGGGGAAAAGGAGAAGAGAAACAGG
 GGCCAAGGGGAAAACAAAGGCAGGAGAAAGAGAAAGGGACAA AACCGGCAGGAAGAGGGAGGAGAAAGAAAAACACAAAGAAGA GAAGAGGAGGAAAAAAGGGGGGGGGACCACACGAAGCCAGAA A GAAA AAAAACCCAAGGAGGAAAGGAGAGACAGGAGGGAGAG GAGGCACCAGCAGGAGAAGACCAGAAAAAAGGAAAGAACCAA G G A A C C G G GAGGGGAAAAAAAGAAAACCAAAAGGAGGATACC GAACAACCGGAGGGGGAAAAGGCCGAAGGAAGACGAGAAAAC C CAGGGACAAGGGGGGAGAGCCGGAGGGAGGAAGGGAAAAGA
 A G G GAAAAAAGGAGCCGGGGCCAGGGAGCAAGCAGGACAAAG G GAAGGCCAGGAGGAAGGGGAAGACACAAGCAGAGGAAGAAG $A C G G C C A G A A A A A G G G A A G G G G A G G A G G G A A G A G A G G A A A A C$ G GAGAAGAGGGGACCAGGAACCCCAAGGAAAGGAAGGGAGCA C C G GAAA $A \operatorname{AGGA} G A A A G G G A A C A A A G G A A A A G G C C A A G G G G A G$ AAAGGGGAGGGGGGAGCCAGGAAAAGAGACGGAAAAGAAAAA
 A G GAGGCCCCCCAGAGAAGGGGGGGAGGGGGAGGGGGGAGGG A A A A G A C A A C G A G G GAA $A \operatorname{AGGCCGGAAGGGGGGGGAAGAAAGG}$ G GAAAGCCAAAAAAAAAAGGGGAAAAAAAGGGAGGGAAAAGAG G G A A G GAAAAGGGAAGAAGAGGGGAGGAGGAGAGCAAAGGCC A G GAA ACAAAAGGGAGGGAGGCAGGGAGAGGGGGGGAGAGAA A A G G G GAA A GCCGGAGAAAAGGGAGGAAGAGGGGAAGAGGAA AAAGAAGGAACCAGGGGAGGAAGGGGAAGGAAAAAAGGAGAC C C G GAA A GAAGGCCGACCAGAAAGAAGGTTGGGAGGGGAGAA GAGGAAAACCGGAAAAAAAAGGGGGGCCAACCGGGGAAGGAA AAGAAGCCAAAGAGACGGGACAAGAACCAGAAGGGGAAAAAA

GCAGGGCCAAGGGGGGAGAAAAGACCGGGGGGAAGAGGAGGA G G G G A A A A G A A A G A C C G GAACC G G G G G G T T A A G G A A G A A G G A GAGGACAGCCGAAGAAAACCGGGGAGAAGGAAAAGGGGAAGA ACGGAACCAAAGGGGGGAAAAAAAAGGAAAAAGGAGGCACCC G GAACAAGCAAGGAAAGAGGGGAACCCCCCGAAGAAGGAAGA GAGCGGAAAGCAGAAGGGAACCAAGGAAGGAAAAGAAAGGGG A G G A G G G G G G A G G G C C G G G A A G A A A C A A A A A C G G G GA G C C G G A GAACCGGGGAGGGAGGGGAAAAGAGAGACAGAAGAACGGGG C C G G A A C C A A G GAAAAAAACCGGGGGGGGCCGGAAAA GAAGAG G G GAGGAAGGAAGGCCGAAGGGGGAGGAAAGAAGGCAAGAAA G GA A $A$ A $\operatorname{A} A A G G G G G G G G A A G C C T A G G A G C C G A G G A G G G A A G G$ GA GAAA $A \operatorname{GAAAAAAACAAACCAGACAGAGGAAAGBAAGGGGGG}$ A A G G G A T A A G A A A A G G G GAA $A \operatorname{AGGGGAAAGGGAGGGGACAAAA}$ A GAGAAGGAGGACCAAAAGGAAGGGGAGGAAGACAAGGAAAA AAAAAAAAGAGAAGAAGGAAAAGGAAAAGGGGAAAGGGAGAA A A A GAA $A \operatorname{AGGGGA} A G A A A G A G G A A G G G G G G G G C C G G G G A G A A$
 GAGGAGAAAGGGGGAGGGGGCCACCCGAGGGGAGAGAAACAA A GAGAGAAGAGAAGAAGGAAAAAAGAAAAAAAGAGAAAGGAA GAAGGAGGAAGGCAGAGGAGAAACAAGACAAAGAAAGGGGAC GAAAAAAAGGAAAAAGGGGGAGGAAAAGGAAGAAAGAGAAAC G GAAAAAAGGGGAGGGAAGAAAAGGGAGGGAAAAGACAAAAA AAGGAAGGGGCAAGAGGAAGAGAAAAGGGGAACAGGAACCGG G G A A A G G G CAA $A \operatorname{GGGAA} G G G G A A A A A A C C A A A A A A A A G G G G G G$ A G G GCCAGGAGAAGGGAAAAAGAAGGGGGGAGAGACCAGGGA G GAGGAGGACGGAGGAGAAGAAAAGAAGGAAGACGAGAAAGA AA $A \operatorname{GGGAA} A G A G C C G G A A G G G G A A A A A A A A A G A G G G A A C C A A$ G G G G A A A A G GCCGGCCGGCCAAAAGGAAAAAAAAAAGGGGAA A A A A A A A A A A G GAACCGGGGCCAAGAGAAAGGCC GAAAGGAG
 A A A A G G G G A A A G G A GAGAGGACGAGACAGGAAAGAGGAAA G G G G G GAGAGAAAGGGAAAGAGAGGGAAAGCCCAGGGAGGAACC AA $A \operatorname{GAA} A G A A A G A G G A G G C A A A A A G G G G G A A A A A G A C C A A A A$
 A ACC G GAGGGAACAGAGGAGAGGACAGAGACAGAGACAAAAA A A A G G GAA A G A G A A A A G G G G A A A A G G G G G GAAAAA G G G G A A G G AAAA A $A \operatorname{Ag} \operatorname{Ag} \operatorname{Gg} \operatorname{GGGGGGAAAAAAAAAAAAAAAGGAAAAGGGGAA}$ G G GAGGCCAGAAAAGGCCGGGGAAAAGGGACAAAACGGGAAA G G G A G A G G G G G G G A G G A A A A T A G G G G A G G G A G G A G G G G A G A G GAAAAAAAGGAAAACCGAAGAGGGAAAGGAAAAACCAAAGAG
 A A A C G G G G G G G GCCGGCAAAAAAGAAAACCGGAACCCCGGGA AACAAAGAGGAGAAAAAAAGGAGGGGAAGGAAGGAAAAAGAA G G A G G G G G C A G G G G GAAAGGCCGGAAGGGAGAGGAGAAAAAG
 GACCACCCGAACAGGGGAAAAGGGCCCAATGGGGGAGAAAAG
 AACAGGCCAAGGAAAAGGAAAAAAGGAAAAGAGGAAGAGAAA AAGGAAAAAAAAGGAAAAAAAACCCCCCCCAAACAAAAGGAG
 AAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGGAAAAGAAGA A G G G A CACAGGGAAGGAACAGAAAGGCCGAGGAAAAAGGGGG G GAGCCCCGGCCAAACGGAAGAGAAGGAGGAAAAAGACAGGG AAAGGAGGAAAAGGCAAAAAGGGGAGCAAGGAAAAAAAAC AA A A GAAACCGGAGGGGGGGAGAAAGACGGAAGGAAGGGGAGAA A A G G C A A G G GAGAAAAGGAGGGAAAAGAAGAACCAAGGAGAG GAAAGGGAGGAAGGAAAAGAAAGGGAAGGCGCGAGAAACAAG $G G C A G A G G A A G A G A A A A G A G C A A G A A C A C C A G A G G G G G G G G G$ AAAAAGAAAGAGGAAAGGGGAAGAGGAGGGAGGGCAAGAAGG

G G GAGGGGAAGGCAGGGGGAGGAAGGGGACCCAAGGGAAAGB

 ACGGAAGGAGAGGAAAGGAGCCAAAAAGCCACAACCAACAAA G G GAA A A A A A G GAAAAAGGGGGAAAAAAAAAGAAAAGGAAAA AAAACCAGCCGAGACAAAAAAAGGCCGGAAAAAGAGATAGAG GAAGAACCAAAGAGGGGGAAAAAGAAAACCAAGGAGGAACBG G G A A A A A A A G G GAAAAAGAGAAAAGAAAATCAAGAGAACACA A G A A A C A A G G A A A G G G G G A C G G A GAAGGGGAAGGAAA
AAAAAGGGAAGCCCAGGGGCCAAGGGGAGGAAAAGGGGAGG A GCCAAACAACCGGGGCCCCCCGGAAAGAAGGGGAACAAAAG G A G A G G A G G G A A A A A A G G C C G G T T A G G G A A A G A G G G G G A C G G A G G G T T A G A A A A GAGGAGCACAAACCGGCAGGGGAGAAAGAA G G G G G G G G A T A G A GAAAAA A A $A \operatorname{A} G A G G A G G G G G A A A A G A A A G G$ G GAGCCGGGGGAAAAAAGTTAGAGAGCCGGCCAGCAAGGGGG AAGACCGACAAAAAAAAAGGGGAGAAGGAGGGGAAGAGAAGA A A G G G G G A C A A GA $A \operatorname{G} G A G A G G G G G A G A A C A G G G G A C G A G G A A$ G G G A G A G A A G G G G G G G G A A A G G G GCCGGAAGAGAAA GAA A A A $G G A A G A C C A G A A A A A G G G A A A A G G A A G A G A G A A C A A A G A A A G$ G G A A G C G G G G C A G G G G G G A A G A A G A A A A G G A A A A G G A G G G G G
 T TCCGGAAAAGGGAACAGCAACGGAGGACAGAAGGGAACAAG A A G GAAGGAAAGGAAGAAAAGGACAGAAGGAAAAAAGGAAAA A A G G A A G G A A A A A A A A A A A A G G GAGGGGAAGAAA GAGGATC G A A A A A C G A A G A GAGGGCCAGAAGGGAAAGAATGGGGAGAAAA A GCC $C$ G G G G C G G G G G G G GAAAAAAAGGGGGGGGAAAA G GAAAA $A$ $C C G G A A A A A A C C G G G G G G G G G G G G G G A A A A A A G G G G G G A A A T$ G G G A A C A A GACCAAAAAAGGAGAGGAGGACACGGGGAGAABA $A C G A A G G A A G G G A A G G C C G G A A G G G G A A C G G G C C A A G G C C G G$ C C C C G G G G A G G G G G G G A A GAC C GAA A GAA G G G G GAA A GACA $\mathcal{A}$ GAGGAAAAGGAGCAAAACAAGGAACCAAAAAAGAAGACAAAG GACGAGAAAGGGCCAAACAGAGAAGGCCACAAGAGGGAAACC A G G G G A G GAGGGCCAGACAAAAGGCCGGAAGGACAAAAGAAG A A G G G G G G A G G ACCAACCAAAGAAAAAAAAAAAAAAAACAAA G G G A A A A A A GCCAAAAGGCCCAGAAGGAGGGGGGAACAAACAC G G C A G G A G G G A G G G A A A G G A A A C CAAGGGGGGGGA GAA G G A A GAAAAAAAAAAGAGGGAAGAAAACGAAGAAGAAAAACAGGTT AAAGAACCGGAAGGAAAGGGGGCCAAAGAAAAGAAAAAAAAA GAGAAAAATTCAAGAAAAGGAAGAAGGAAGAAGAAATAGGGG A A A A A A G G GAAAAAGGAAAACAAACCGGCCAAACACGAGGGG AA GAAGGGAATTGAAGAAAAAAGGGGACCAGGAGAGGGAAAC A A G A A A A A A A C C A A A A A A A GAGAAAAAGGACAC GAAGG G GAA GAGAAGCCAAGGAAAAGAGACCACAAGGAAAAGGGGAACAGA G GAGAAGGAAGAAAAAAGCCGCAAAAAACCAAGGGGAGAGAA $A \subset A G G G A G A A G G G G A A A A G G G A G A A G G A G A A A G A C C A A A G G G$ G G G G A A C C G G G G G G G G C C A G G G A A G A GAG GAA A A A G A A C C G G A A T A C C G G A C G A A G A G A G G A G G C C G G G G G A G A A G A A C C A G G A A G G G A C G A G G G GAGGGAAGAGAGAGAGGACCCAAAAGGAAAA G G G G G G TACCAAGAAATAGGAAAAGAACAGACCAAAGGGAAA A A A A A A A A G G A A A G GACACCGGGGAAAAAGAGGGAAAAGA GA G G G G A GCCGGAGGGAAAGAGGGAAGGGGAAAAACAAAAAAGG A A A A A A C C G GAA $\operatorname{A}$ G $\operatorname{A} A A G G C C G G A A A A G G G G G G G G G G G G A G A A$ A A A A G G A A A A A A G G G G A A A A G G G G G G C C A A G G G G A A A A G G G G G G G GAA $A \operatorname{GAA} \mathrm{~A}$ G A A A A G GAAGGGGAAGGAAAAAAAAAAAGGGG G GAAAAGGGGCCGGGGGGAAAAAAAAAACCAAAAGGGGAAGG G GAAGGGGAAGGGGGGCCGGAAAACCGGAAGGAAAAGGAAAA
 $G G A A A A A A A A G G A A G G G G G G A A C C G G C C G G G G A A A A A A A A A A$ AAGGAAGGAAAAAACCGGGGGGCCAAGGAAGGCCAAGGGGCC

G G G G A A G G G G A A A A G G A A A A G G G GC C A A G G G G G GCC G G G G A A A A G G A A G G G G A A G G G G G G G G A A G G A A C C C C A A A A A A A A G G G G A A G G G GAA A C C G G A A A A G G C C G G G G G G A A G G G G G G G G G G A A G G G GAAGGAAAAGGAGAGGGCCACAGGGCAAGGACCAAAAAAAAA CAGGCCGGTTGAACGGAAGACCACAACCGGGAGGAACCGGGG C G G G G A G A A G A GACA A A G G G A A A A G A A A A G G A G C C G G A A G G G G A G A A A A G G G GAAC GAAAGCCGGGAGGCAAAGGGGGAGACCAA AGGGCAAAGGAAAAAAGGAAAGGACAGGAAGGGGAAAAGGGG A A G G A G G A A A G G G G G A A A A A G G G G G A G A G G A A G G G G G A A A A $G$ GAGACAGGAAAGGAAGACGCGAAGAAGGCCAAAAAAAACGGG A A A A G GAAAAA A $A \operatorname{A} G C A A G G C C G G G A G A A A G G C C A A G G A A C X$ G G G G G G C A G G A A G G G G G G G A A G C C A C G A G G G G G G G G A A G G A G G GAA A GAAAGCCGAAAAAAAGAGAGGAAGGAGAAGGAAGGCC A A A A G GAGAAAAGGGGAAGGAAAACAGGAGGGAACCAAGAGG CAGGGAGAGAAACACAGGAGAGCCCCCCGGAAGAAGAAAGAG A A A A A GAGGGGGGAAGGGAAAGGGGGGAAGAACA GAAGAAGG G G G GA GAAACGAGCAGAAGAAACCGGAAAAAAGGAGGGACGG A A G G A A A A A A G G G A A GAGGGGGAACCAGAAAGGGGGCAAACC G G GACCAAGAGGGGAAGGGGAGAAAACCCCAACAGAGGACGB A G A A A A A A A A C CAA $A \operatorname{GGGAGGAAGAGGAGAACCGGGGAGAGGA}$ A GAAAGCCGACCACAGAGGGGGGGGGAAGGAGAGAGGAAGCC A G G G G GAGAACCAGGGGAAAGACAAAAAAAAAGAAGGAAAGA GAGAAACCAACCGGCACAGGGGAAAGAGGGAAGAAGCAAAAC A G GAGGAAAAAACAGACACCGAAAGAAGAAACBAAGAAGGCG GAAGAAGGGGCCGAAGAGAGGGAGAGGGGGGGGGCAGGAAGA GAAACCGGGCAGAAGGAAGAGGCCAGATAAAAGAGGCCAAGG AAAAGGCCAACCGGCAGGGGAAAGGAAGGGGGGGGAAAAACC A A A A A CAGCCAAGGACAAGGAAGGAAAAGGAACCAAGAGAAG A GAGGGAAGGAAACCCGGAGCCAAGGGGGGGGCCGGAAGAAA G GAAAAGGAAAGGAAGACAAAGAGGGAGACGGGGAAAAAAAA A A A A G A G A A A G G A A A C A G A G G G G G C C C C A G G A G A A A G GAAA A A A G G G GAAAAGGAAAAGGAAAAAGAAAGGAAGAGCCCAAAAA AA $A \operatorname{GGG} \operatorname{G} C \subset A A C A A A A G G A A A G A A G G G G G G A A A G G G G G A G A A$ AA $A$ A A GCA A GAGGGAAAAGAAAGGAGGGAACCAAATGAGACC
 A A G A A A A A ACCAAAAAAAAGGGCCGGAGGCCCCCCAGAA A A GAGGAACCAGGAAGGGGAAAAAAGAAGGAACCAGGGAGAAA A A A A A A A A G G G GAAAAAAAACCCCAAGGGGGGCCGGGGAACAC G G A A A T G A GAACGGAGGAAAGAGAGGAAAGCCAGAGGAAACC A A G G G G G G CA $A \operatorname{GA} A \mathrm{~A} A A A C G G A A A C A A G A G G G A G A A A G G A G G G$ GGGGAGAAAAAAGGACAAAGCCCCGGGAGGAAGGGAAAAGAA T T A A G G C A G A A G G A A G G G G G A A A G A GA G G A A A C A G G A A G G G G $A G C C A G G G A A G G A A G G A A G A A G A A A G G G A G A A G C G A A G G G G A$ G G G GCCGGAAAAAACCGGAAGGAGGAAAAGATGGGGGGAGAA GACAGGGAAGAAGGGGAGACAAGGGGGGCCCCCAGEAAGABA GAAATACCGAAACCAGGAGGAGGGAAAGCCAGGGGGAACCBG AACCCCCCGGGAAAAAAAGGAAAAAAGGAAGGGGAGAGAAGB C GCAGGCCAACCAGAAGGGAGGAAAAAAAGAAAAGACAAAAA G GAA $A \operatorname{GAA} \operatorname{A} A A A G G C C A G G G A A C A C C G G G G G G A G G G G A G G C C$ G G A A G G A A G G A G G G A G G G G G G A G A A G A A G GAACC G G GA G G A A ACGAGGGGAACAAGAGGGCCGGAAGAAGACGGACGGAGAGAG GAGGGGGGAAACAAGGAAAGGGGGGGAAAAGAGGTTAACCGG A A G G A A G G A A G G C C G G A A G G G G A G G A A A G A A G A A GAG G C C A A CAAAAAGGAGGGGGAAAGAGGGCCAACAGACGGGGGACAGAA A GAGCAGGGGAAAAAAAGCCGGGGGGGGCCGGAGAACACAGA $G G A C A A A A A A C C G G G G G G A A A A A A G G A A A A G G A G G G A G G G G A$ A A G G C A G A A G A A C A G G G GAA $A \operatorname{AGGGAACCAAAGAAAAAGGGAA}$ A G A A A A G G A G G G A G A G G A G A G G G G G G A A A A G G A A A G G A G G A G AAAAGAGAAAGGGGGGAAAGAAAAAAGGGGAGGGGGAGACAA

A GAAAGAACCACAAGGAAGGGGGAGGGAAGGAAAAAGGTTGG A A G G A A A G A GACA $A \operatorname{AGGAACCAGAAGGGGCAAAGGAGAGAGAG}$ GAAAAACCCCGGAAGGGGAAAAGCAAAAAGAAGGGGGGAGGG A A A A A A A A A A A GCCAGGAGAGAACCCGGAAGAACAGCC G GAA G G GAA $A \operatorname{GA} \operatorname{A} A \mathrm{~A} G A A A A A A A A G G G G G G G A C A A A G A A G G A A G G A G$ G G G GAGGACCGAAGACGGGGGGAAGGAACCAGGGAAGGAGAA
 A G G GAATTGGGAAAGGAAAGAGCCCAGAAAGAAAGGGGAGGG $G A C A G A G G G G A G G G G G A A A A A A G G A A A A A A G G G G A A G$
$G C C A A A G G G A A G G C C A A G A A A G G T A G G G A A A C C C C A A C C G A$ GCAAACAAGGGGAAAAAACCGGGGGGAAAAAAGAGAGEAGCA AGGAAAAAGGCCGGGGAACCAAGGAAAAGGAAAAGACCAAGAG $A C G A A G A A G G C C G A C C A A A G G A A G G G A A A A A A A A G G A A A A A A$ $G G A A A A A A C A A A G G G G A A A G A A C A A G G G C C C A A G G A A A G G G G$ G G G GAACAGGGACCAGGGAAGGCCGGAACCAAAGAAAAGAAA G GAGGAGGAAGGGAGGGAAAAGGAGAAAGAACAGAAAAAAGG A A A A A A G A A A GAGGAAAAGAAGAAAAAAAGAGGGAAGACAAA A A A G G A G G G GAACCAAAAAAGGAAGGAAGAAGAGGAGACACA G G G GAGGGGGAAGGAAGGGGCCGAGAAGAAAACCAAAAAGAA AAAAAAAGGGGGGGAGAACAGGGGGGAAAAGAGGGACAAAGA A A A A A G G G G G G G G G G GAAAAGGGAGAGACACCGAGAACA GAC CAAAAAAAGAGGAAGGGGCCAAGGAAGGAGGGGGAAAGAGAA G GAGGGAGAAGGGACCCCAGGGAAAAAGGGAAGGGGGGCAAA G G G G G A A A A GAGGGAACCGGGGGGGGGGAAGGCCGGAAAAAA
 AGGAAACCAACACAGGGGGGGGAAAAGGGGAAAAAGAGAAAA GAGGAAGGGGGGGAAGAAGGAAGGAAAACCAACCGGGGGGGG ACAGGAGAAGGAAAGGGGAAAAAAGGAGCAGAGCAAGGAGAA A A A G G G GAGAGGGGAACCAAAGGGGGAAGGGAAGAGAAGGGG $G G A A A A G G C C A A A A G G G G A G C C G G G G G G G G G G G G A A A A A A C A$ A A A C A G G G G G A G A G A G G A G G C A G G G G A G C C G G G G G G G G A A A A G G G GA A A GAGGGGGGAAAGGGGAAAAAGGGGGGAAAGAAGAAA G GAAA A A G G G G G G G CAGAACCCGAGGAGGGGAACAACAAGEG G G GACCCCCAAAGAGGGAAAGGCCAAGAGGGGAAAAGGAGAG C C G A G G G G A GAACCGGAAAACCGAGGCCAAAACAGGGGTTGG G G GAA $A \subset C G G G G C C A C G G A A A A A G C C A A G A A A A A A C A G G G G G$ $G G C C A A A A A A G G G G G G G G A A G G A A A A C C G A A A G A G G A A G G G G$ A A A A G GCCAAA A $\mathcal{A} G G A G G G G G G A G A A A C G G G A A C A A G G G G G G$ A G GAAACCAAGGGAAGAGAAGGAGGACCGAAGAGGGAAAAGG G GAACCACAGGGAAGCAGGGGGAGAAAAAAAAACGGGAAA GA A A G A A A A C G G A CAC $\mathcal{A} G G G A A G G G G G G C C G G C C A A A A G G A G C C$ A ACC GAGAGGGAAACCGGGGCCGAGGGACCGGGAGAACAGCA ACAGAGGAAAGGGGGAGGAGAAAGAAAGGAGAAGGGGAGGAA A G G A G GAGGAAGAGAAATGGAGGGAAAAAAGGGAGGCAAAGA G G G G A A A A A GCCAAAGCCGAGGAACCAACCAGGGAAGAAAAA A A A GAGGACAGGAGAGGGAAGGGGGGGAGGAAAA GAAAAAAG A A C A G A A G A GCCA G G G A A A G G G T T A GACA GAACC GA G G G G A G A GAGGAAAGGGGGGAAAGAGGAGGGAAAAGAAAAGGGGAC GA A GAAGGGGAAAGCACCAAAAAGCCAAGGGGACAGACAAGGCC GAGGACGGCCAAAAACGAGGCACAGGAGGAAGGGAAGAGGGG C C T T G GAA G GAAAACAAGAAAGGGACAAGGAAAGCCAAAAGG GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGCAAGAG GAAAGGGGGAGGAGACGGGGAACCGAGGGAAGAAAAAGAAAA AGAACCCCCCGGAAACACAGAGAGAAGGGGAGGGGGAAAAGA $C \subset A G A G G G A A A A G G C C G G A A C C G G G G A G A A G G C G G G G A G A A G$ G G G G A G G G G G A A G G G G C C G GAA $A \operatorname{GGGGAAAAAAGAGAGAAAAG}$ A GAA A G G G $\operatorname{A} A A A A A C G A A G G A G G G G G A G G G G A G G G C C A A G G C C$ CA $\operatorname{G} G A A A G G G A A C A A G A G A A G A G G A G G A G G A A A A C C G G A A A A$ AAAGAAGAGAAAGGCCGGAAAGAGGGAAGGGAGGAGAAAAAG

A G G G G A A G A G GAGCGAAGAAAGGGAAGAAGGGGGGGAGGGGG G GCAGGAAGGAAGAAAAAAGGGGAAGAAAAGGGGGAGAAAAA A G GAGGAGAAGGCCAAAAAAGGGAGGAGAAAAAAAAGGGGCG G GAAAAAAGGAAGAGGAGAGGGACGGAGAAAGGAACAGAAAA $C \subset A A G G G A C A G A G A G G G G G G A A G G G G G G A G G G A A A A A A A A A A$ G G G G A A G GCC G G A A A A GAA A GAGAGGGAGGGGGGAAAAAAAA A A A A A A A A A A A A G GAAA AA GAAAACCGAGAAGAAGGAACACA G G G G G G G G A A A CACGGCCAGCAGGGAGAAGCCGGACAAAGAG
 G G G G G G G G G G G G G G A A G G G G A A A $\mathcal{A} A A G G G G A A A G G G A A G G G G$ G GAACAAAAAAAGGAAGGGGAAGGAAAGGGACAAGGGGAGGG G G GA $\operatorname{G} G C \subset A G G G A A G A G G A A G G C C G G G A G G G A G G G A G A A G A G$ GAAAAAAAGGAGGGGGAGAGAAAAAACCCAGGAAAAGAAGAG A GAA $A G G G G G G G A A G A C C C C A C A A A A A A A A G A A G C C A A C C G G$ A A A A G GAAGGGGAGCCGAGGGGAAGGGGGGGGGGAAAAGGGG AAAGCCCCAAAATTGGAAGGCAAAAAGAAGAGGAGAGAAAAA AAAGAGGGAAGGAGCCGCGGAACCGGAACACAGGAAGAAAGG
 AAAGAGAAGGCCGGAAGAGGCCAAGAGGGGGAGGGAGGGGGA GAA A G G A C G G G A G G G G G G G G A G A G A A A G G C A A G G A G C C G G G G G GAGAGGGGGAAAAAAAAGAGGGGCAGGGGGGGGCCCCCCCC
 C CAAAAGGCCAAAAGGAAGGAAGGAAGGAAGGCCAGGAGGAC A A G G GAGGGAACGGCCAAAAAAGAAAGAGGAAAGAAGAAGAG A A A A A A A A A C G G G GCCAGGAAAAAAAGGGGAAAGGGGGAGAG A G G GAA A G A GAACA A A GAGGACAAGGAAGGTAAAGAAAGGGG AAAGAAAAAAGGGGGGAAGGAAGGGGAGGACCAACAACAAAAA $A C G G G G A A A A G G G A A A G A A G A G A G G G A A A A A A G A C C A A G G G G$ A G G A T TACAGCCGGAAGAAACCCCGGGGGGGGAGAGAACCCC A G A A A A A A A A C CAAGGGGAAGAAGATCCGAAGGGAACAAAAA
 AACCGGCCGGAAAGAGACAAGGAAGGCCCCGGAACCGGGAGG G G GAGGGGAAGGGGGAAGGCACGAGGGAAAAAAAAGAAGGAA A A G G G GA G G G A GAA $A \operatorname{G} G A A C A G G A A A G G A A A C C A A A A G G G G A A$ G G A A A A A A G G G G G G T T G G C C G G G G G G A A G G A A G G G G G G C C C A $A G C C A A C A G A A A A G G G A A A A G G C A G G G A G A G G G G G G A A A G A C$ G G G A A A G G A A G G G G A A A G G G C G G G G A A A T T G G G G A A C C G G G A G G G GAAAAAAGGTAACAAGGGGGGAAGGGGAAAAACGGAAAA A G G G G GAACAGAAAGGAGACAACCAAAGAAAAAAGGCCAAAA T T A A A A G G GAATAAACGGACAAAAGGGGGGAGGGAGAAAAAA AAGGGGGGGGAAGAGAAAGGAAGACAAAAAAAAGAGAGAAAA A GCC G GCGCCGGGGGAAAAAGGAACCAGGAAGAGGAAGAAAA A G TAGGAAGGGGAAGGGGAAAAAAGGAGAGGGGGGAGGAAAA AAAAGGAGGGACAAAAAAAACCAGAACCGGGGAAAAAAAGGG
 GAAAGGCAAAAAAAAAGGGGAAGGCCAGAAGAACBGAAGGAG G G A G A G G G G G G A C A G G G A G G G G G G G G A GACAGCCA A A A C A G G AAAGACCACACCCGGGGGAAGGGGCCAAAAAAGGAGGGAGAG A GAGAA $A \operatorname{A} A \operatorname{A} A G G G G A C C A C A A C A A G G G G G A G G G A A A A A A C A$ A A C A G A A C G G C C A A G G G GCCGGAAGGGGGAAAGGAGAAAA GA A G G G G A G C A G G A G G G G A A G G A A G G A A G G A A A A A A A GACAA G G AA GGAAAACCGGAAAAAAGAGAGGAAAAGGACBAGAAGAGGG G G G G C A G A G G G G A A G G A A A C C C A A G GAA A A G G G G A A G G G G A A GAAAGGGACCAACACGGACCCCGGGAGAGAGGAGCAGAAAGG A A G G A A A A A G GAGAGGGGAAAGAAGGGAGAAGGACACAAACC A A C C A A A A $\mathcal{A} G G G G A G G G G G A G G G G G G G A G A A G C C G A A A C A A A$ C C G GCACCAAAAGGAAGGAAGGGGAGCCGGGGGAGGGGGGCC $G G A A A C G G G G A G A G A A G G A A G G A A G G G G G A A C G B A C A A G G G G$ $A G A A A A G A G A G G A G A G G G G G A A G G G G C C A G G A A G G G A A A G G G$

A A G GAGGGGGCCGGAACAGGGGAAGGAGGAACAGAGGAGGAC
 CAAACAGAAAGGGGGGGGAAAAAGAAGGCCGGACAGGAAAGB G GAAGGGGGAAAGAAAGGGAACGGCCGGCCAAAAGGACAGCC
 A A A A G A G G A A G G C C A A A GAAA A A GAGGGGAGGGGA GGGAAG G A G GA G A A G A A A G GA GAAAGAAGAAAAACAAGGGGAAAAGAGG A G G G G A A G A G G A G G G G G G A A G G A A A A $\mathcal{A} A \operatorname{A} G A G G G G G G G A A A C$ A A G G A A A A G GAGGGGGACAAAAAAACGGCCGGAGAGA
AGGGGAAAACCGAAACAGAAGAAGGGGCCGAACAGGAGAAA CACCAAGGGGAAAGGCAACAAGAAAAGACAGGGAAAGEGGAA G GAAAGCCGGAAGGGAAGAGAGAGGGGGGACAGAGGAAGAAA GAGGAGGGGAGGAAAAAAGGGGGGGGGAAAGGGGGAAAAGAA A GAA $A \operatorname{GA} \operatorname{A} G C C C C C G A G G C A A A G G G A A G C C G G A A A G A A G A A G$ AAGACCGGAGGGACAAGGGGAGGGAAACGAAGGGAAAACCBG G G G GA $\operatorname{G} G A G G C C G G A G G G G G G G A G G G G G G G G A A G A G G G G G G A$
 G G G G A A G G G G A A C C G G A A G GAAAAAAAAGGAAGGAAAAAA G G G GAACCAAGGAAAAGGGGGGGGAAGGAACCCCGGGGGGAGAA A A A A G G A A G G G G A A G G A T A A G G A G G G A A G G G A A A G G G G G G A T A GAGGGCCGGGGAAGGAAAGGGAAGGGGAAGGAAAAGGGGAG
 $A G C C A G A G G G A A A A C C G G A C G G G G G A G G G A G G G A A A G G A A A A$
 A G A G A GAAAC $A \operatorname{A} G A G A G G A A G A A A A G G G G A G G A A A A G G A C C G G$
 AA $A G A A A G C A A G A C G A A A A A G G G G A A G A A C G G G G G A G G G G A G$ A GAGCAAGGAAAAAAAAAGGGGAAAAACAAGGAGAGCAGACC G GAGAGGGACAAGGGCAAGGGGAAAGAAACGAGGAGAABAAG $G G A A C C G G A A G G A G G G A G A A G G G G A G G A A G G G G G G G A G A A A A$ A A A A A A A A $\mathcal{A} G G G A G G G A G A A G G G G G G G A C C G G A G G A G A C A A A$ AAGGAAGGAGGAAGGAGGGGAAAAAAAAGGGGAAAAGAAAAG

 A GAGACAGCCAGGGCAGGGAGAAAGGAACAGGGGCCGAATAC
 TTCCAGGAAGGGAAAGAGAAGAAACCGAGGGACAAGGGAAGA G GAAAAGAGGCCGGGGAACCGGAAAGAGGGCCGAAGGAAAAA A G G A A A G G G G A A A A A G G G G A G G G A A GAGAGGAGGGAACACAA $A \subset C \subset A G A A A G G G G G A A A A A A C C G G A A A A G G A A A A A G G A G G A G$ A A GA $A$ A A A $\mathcal{A} G G G G G A A G G G G G G A A G G C C G G A A G G G G G A G G A A$ A A G G A A A C A A A A A A A A A A G G G G G G C CAC GAAGGGAACAC CAA ACAAAAAGAAAACACAGAAAGGAGAAAAGAGGAAAGAAAAAG A A G G G A A G A T A A A A G G G G G G A G A C G C G G A G GAA A A G A A G G A A G G G G A G A A G G G GAA $A \operatorname{G} G A A A A G G A A A G G G G G G A C X A A A G G G G G$ A GAA A GCCAAAAGGGGAAAAAAAGGGAGAAAGGAGAAACCGG C CAAAAGGAACCCCAAGGAACCAAAAGGGACAGAACGGGAGG G GAGAGAAAGAGGGGGCAAGAAGAGGACGACCCCAAGGGGAG A G G GAA A ACAAAGGCCCAGAAGGAGGAAAAAAAAGGGGAAAA GAAAGACCAACCAAGGAAGGGGCAAGGGGAAAAAAAAAAAGB G G A A G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A C C G G G A C G G A G G G A C A A G A G A A G A$ CCGGGGGACCGAGGAAAACCGGAAAAGAAACGCGGGAAAAAG A A GAGAGAAGACAAAGAAGGAAGGGGCCGGAAAAAGGBAGAA G GAAAAGAGGGGGAGGGGAGAAGAGGAGGAGGGGAGAAGGGG A G G A A A A A A A G GAGGGAAGGAAAGAAAAACGGAGA GAAAAGGG GACCAAAAAAAAGGGAGGAAGGGAGGCCGGAAAAAACCGGCC AA $\operatorname{A} A A G G A A G C C C C A C A A A A A A G G A G G G A A G A G G A G G A A G G G$ CACCGGCAAGGGGGAAAGAGGGAAAAGGAAGGCCGGGGAABG A GAAGGAAAAGGGAGAAAAGAGAGAGGGGGGGTTAAGGACAC

GGCCAAAAAGCCGAAAAGGAAGGAGAAGGAAAGAGAAAGGGG
 G G G G G G A A G G G GAAA A G A C A G G GAA A GACAAAA A A G G G G G A A AGAAGGGGCCAAAAGGGGAAAAAAAGCAGGCCAGACCCCGAG G GA A A A A A G GA G GA GAGGAGAAGGGAAGAACGGAA GAGAGAA A GAAACGGAAAAAGAAAGGATTAAAAAAGGGGGGGGGGAGAA G G A A A A G G A A A A G G G G A A G G A G G G A A G G G G A A G A T T A C G A G G AGGAACGACCTTGGAAAAAGGGCCAAAACCAAAGCCACGGGG A A G G A A G G G G G A A G G G C C A G G G A A A A A A G G GAAAC CA GACA A AAAGAGAGGGGGGGAAGGGGGAAAGAAAGGCCAAGGAAAAGG C G GAA A A A A GAGGGAAGGCCAAGGGGAGGGAGAACCCCACAA G G G GCAGAAAGGACAAAAAAAGAGAAGGGGGAGGAGAACAAC $A G C C G G A A C C G G A A G G A G A A G G G G G G A A A A A A A G A G G G A G A G$ A G C C A C G G G G A A A A A GAGGGCAACCCAGGGGAAAAACC GAGA G G G GCCGGAAGAAACCGACCAACCGGGGAACCGAAACCGGGG G GAGGGCGAGGAGAAGGGAAAGGGAAGGGGAAAAAAGAAAAG G GAGAGCAGACAGGAAGAGGAAAAGGTTCCGGGGCCCCAGAA G GAGCAGAAGGGAGCCAAAAGAAAAAAAAACGGAGGGAGGAA AAGGGGGGAGAGAGAAAAAAAAAAAAGGAGAAAGAAAAAACB C C G G G A G G G G A G G G G G G A A G G G A G A G A A A A G G G G A A G A A G G A AAAAAGAAAACAGGAAAGAGACACAAGGAGCCCCGAGAGGCC A G G G G G G G A A A A G G G G G G C C A A A A A A G G A A G G G G G G G G G G G G G GCCGGGGAAAAGGGGCCAAAAGGAAGGAAGGAAACAAAGGG CAACGGAAAAAGAGGGAGGAGGGGAAAAGGCCGAGGAGAGCA GAAGAGAAGAGGGGGGGGGGAACCGGAAAAAAAAGGTTAGAA AA $\operatorname{A} G A G G G C C C C A G C A A A A A G G A A A A A A A G G A G G G A G G A A G G$ AAGGGGAAAAGACAGGAAAAAACCAAAAGGCCAAAAAAGAAG C C C C A C G G A G G G G G C G G G A A A A A C A G G G G G A A A A G G A A A A G G G G G A A A G G A A G GAACCAAAAGGGAAAGGGGGAGGAGAACAAA A GACAAAGGAAAGGGAAGCAAGGGGGAGAAGGCAAAAAGGAC A A A A G G G A A A G A A A G G A A C C G G G A G G A A A GAA G G A A A A G G C C $C \subset G G G A A A G G G A A A G G G A C A C A A A C C G G G G C C A G G A G G G G G A$ G G G G A A G G A A G G G G G G A A C C A A G G G G GAGAGAA A A G GAA A A C A GAGAAGACCAGGGCCGAAGACGACCAAAGAGGGAGGGAABA G G G G A A G A G A A G G A A A A A A C C G G G A A G GA GA A A A A GAGA A A A
 GAAAGAGGGGAAGACAGGAAGGAAAGGGGGAGAAGAAGAGAA A G GAGGGGAGGGGGGGAGAAGGAAGAAAGGACGGGGAAAAAA G G A A A A A G G G G A A A A A A GACAGGGAAGACCGGAAGGAAGGCC A A A A G GAA $A \operatorname{G} \operatorname{A} A A G G A A A G G G G A A A G A A A G A G A A A A G G G G G G G$ $G G A A G G A A C C G G G G C A G A G G G G A A A G A G G G A A G G G A G G G G G G$ A A C A A A G G A G A A C C A A A A C C G GAA $A$ G A A A A A A A A G G G G C C G G G G G GAAAAAAGGAACCCCGGAAGGAAGGGGGGGGGGAAGGGG $C \subset G G G G G G G G G G A A G A A A G G G A A A G G G G G G A A G A A A G G A G A C$ A GCCAAAGAGGAGGAAGGGGAACCGACGGAAGGGGCGAAAAA
 G GAAAACCGGGGAAGGGGAACCGAAGAAAGAAGAAGAAAAGB G GAAA $A$ A $A$ A $\operatorname{A} A A A A A A A A G G A A A A G A G A G A T T G G A G G G G G A A$
 C CAA $A \operatorname{GA} \mathrm{~A} A C A A G G C C G G A G G A G G G G G A A G G G A A A A A A A A A A$ GAAGGAAAAGAAGGCCAAGGAAAAGGGGGGAAAAAAAAAAAG A A G G G GA $\operatorname{A} G \mathrm{G}$ GAAGAAAAGGGGGAAGAAAACGGGGCCGGAGAA GAACAGAGGAAAAAGGGGAAGGGGACGGCCAGCACCAAAGGG G GAAAAAAAAGGGGGAAGGGGGGAAAGAGGGGAAGGGGGGGG AACGGGAAGGCAAATTAAAAAGGGGACCGGAAAAAACCGAGAA G G G G G G G G G G G G G G A A GAG GAACCAAGGAAGAAGGGAAAGAC
 A G GAGGAAGAACCCAGGAGAGGGAGGAAAAGGAACCAAAAAA G GAAGGCCGGGAGGCCAAAGACAAGAGAGAGGGGCAGAGAGA

G GAGGGGGAAGGGGGGAGAAGGAGGGGGAGAAAAGACCGAAA A A G GAGGGGAAAAAGAGAAGAAGGAAAGGGAAACACGAGGGG
 G GAGGGAGGGGGAAAGGGGGAAGGAAAGCCGAAAGGGGGGCC GAGGGGGAGAGAAAAAAACCGACCAGAAAAGGGGGGGAGAAA A GAA $A \operatorname{GA} \mathrm{~A}$ GAGGGGGAACCAGGGAAAAAGGGGGGGGAGAGAA
 AAGGCCAAGAAAAAAAGGACGGAAAAAGGAAACAAAGGACAA G GAACCACAAAACCGGGGGGGCCAAGGAAGACGGCGC
A A A GAGGGAAAGGGGGGGGACAGGGGAAGACGAGAGGGGAC
 AACAAAAGGAGGGGGGAAGGGGAGGGAAGAGGAAGGAAGAAA GAGGCCAAGGGGGGAGGGAGGAAGGAAGAAGGACAAGACAGB G GAGAGCCAAAAAAAAAACACAGAGGAGAAGGAAAACCGGGG AA $\operatorname{A} G A A A A G A G G C A G A G G G A A A G G G A G G G A C C A A G A G A A G G G$ A A A A G GAGAC A G GAGGAGGGGGGGAAAACGGGGCGAAAAAGAG G G G G A A G G CA $\operatorname{A} G A G G A A C G A A A G G A A G A G A A A G G A G G A G G G G$ G G A G A A A G A A G G G G A A G G G A G G G A A GAAGGGAAGGAGACAAA GAACGACCGAAGAAGGCCAAAGGGAGAGGGAGGGCAGGGGGG A A A G A G A GCCAAAA $\mathcal{A} A G G G A A A A C A A G G A G G G A G G G G C G G A G$ A G G GAA A GAGAAAGGAAAGGGGCCAAGACAAAAGGGAAGAAG C CAGAGGGCCAGGAAGCAAAAGGGAAGAAAAAAAAAGGGGAA G G A A A G G A C C G G G G A A G GAGAAGAAGACAAAACCCCAAAA G G G G G G A A G G TA $A \operatorname{GGGGAAAAAGAAGAAAGGGAAGAAAAAACCAC}$ G GAA $A \operatorname{GAA} A G G A A G G A C C A G A A A G G G G A G A A G A A A A C A C C C G G$ G GAGCCGGAAAAGGGGGGAAAAAAGAGGGGAGGGGGAGAAAG CACC G G CA $A \operatorname{G} G A A C A G G G A G A G G G A G G A G G A G G G G G A G C C A G$ A A A A G A G G A G G A G G C C G G G GA $\operatorname{A} A A A G A A G A A A A A A G G G G G G G G$ GAGGAGAAGGGGAGGGGAAAAAGGAGAAGGAAAAAGGAGGGA CATTAGGGAAAAACACAGAAGAAAACGACAGGGGAAGGAAGA
 G G GAAGCCAAGAGACCGGACGGGAGGGACCGAGGAAGGGAAA A A A A A A A A G G A A A A A A A A A A G G GACCAGCC GA GAA G GA G GA G C CAG GAGGAAGGAAACAAACAAGGAAAAGGGGGGAAAAGGTT G GAACCAAGGGAGAGAGGCCACGAGGGAAGAAAACCGGGGGG
 A A G G G GAAAACAGGAACCAAGAAGGGGGGACCGGGAAGAGAA $C \subset A A A G A G A A A A T T G G G G C C A A G G A G A A G A A A C C G G C A G G G G$ G GAAAAAAAAAAAACCGGAAGGGAGGAGGGGGCCGGAGTTAA GAAAA $A$ A A A C C G GAA A A A G G GAA T T G A A A G G G G G G G G G G G G C A GAGAGGAAGGAACCAAGGACAAGGACGAGGAAGAAGGCGGGG G G G G G GAAAAAAGGCCTTGGAAAAAAGGGGAGAAGGGAGGGG AAAAGGACAAGAAAAGAGACGGAGGAAAGGGGCAAAAAAGAA A GAGCCCCAGGAGGAAAGAACCAAAAGAGACCGCBAAAAAGG A A A A A A A A A A A A GAGAGAGAAAAAAAAGGGGGGGAAAAAGGG TAACAGGAAGAATAAAGGGAAACCAAAGGGAAGGAAGGAA GA CAAGAAGGAAAGGGAAGGAAACGGAAAACCGAGGGGGCAAAA G G G GAAAAGGAAGGGGAAGGAAGGAGGAAGAGGCGAGGGAGA A A GAGGAAAGAACCAGAGGGGGAAAAGAAGGAAGAAAA G GAAA G G G G A A G G G G G A G A C G G G A A C A G G G G G G A A C C G A A C A G A GAC $A G C A G C G A A C G G G G A A A A G G G G G G A C G A A G G G G A G A G G A G A G$ $A C A C G A C A A G G A G A C C G G G A A A G A A G G G G G G G C C A A G G A A B G$ A A G G CAGAAGAAAAGGGCCCAAAAAGGGGAGGGGAACAACA GAGAAAGAGAGGAAAAAAGAGAAGCCAGGGAGAGAAGAAACA CAAAAGAGGGGAACGGCCGAAGGAGGGGGGGGAAGCACACAG GAGCAGGGGGGGGAAGAGCAAACAAGACAAGGAAGAGAGGGG GAAGGGAAGGAAAAGGCATACACCAAAACCTAGGAGAAAA GA CA $\operatorname{G} G A A A A G G G G G G A A A G A A C C C A G G G G G G C C A A A A G C A A G G$ $C \subset A G A G G G A A A A G G A A C C A A G G A C G A A G A A G G G G A G G A C C A G$

A A G G G A G G A A G G G G G G G G G G A C A G A G G GAC $\mathcal{A} A G A A G G G G G G G$ A A A A A A A G A A A ATTAAGGGGAAGGCAGATTAAAAAAAACCAA A A A A A A A A A ACCAACCAAAAGGGGGGCAAGAAAAGGAACCBG G G G GAA T T G GAAAAAGCCGCACGAAGGAAGTACAAAAGGATT AAACAACCAAAACAGAGGGGAAAGGGGACAGGAAAGCAGGAG A A A A G G G GAGGAGGAGCCGGGAAGGGAGGAGGAAAGCCGGCA A A G G G GAA A G G GA GACGGAAACAAAAAAAAGCAAGGGBAAAA GGTAAAGAGACAAATTAAAAGGGGAAAAAAAAACAAAGAAAA A G TACCCAGACACACAACCCGGCCGGAAGGAATTAAAAGGGG1 AAAAGGGGAAAAGGGAGAGGCCCCGGGGAGAGGGACAAAAGG G GAGCCAGAAGGAAAACAGGGGGGAGCCCCAAAGGACCGGAG G GAAACCGGGGCAAGGGGAGGAAAGGAGAGGGGGGGGAGGGG A A A A A A A ACCAACCGGGGAAGAAAGATTGAGAAA GAA GAGAC A G G GAGCCAAAGGGGGGGGAAAGAAAAACAGGAAAAGGAGAA G G GAGAGGAAGGAAAAGGAAAGAAAAAGAAAAAGAGAAGGGG $C C A G A A A G G A G G A A G G A A G G A A A A A G A C C A G G A A G G A A G G G G$ A A A A A A A G GAA $A \operatorname{GG} \operatorname{A} A A C C G A A G A G A A G G G A A G A A A G A G A A A A$ A A GAGAAGGGAACACCGGGGGGCCGGAGGGAGAAGAAAAAGG AAGGGGAAGGACAGGGCCCCCAACGGGGAAAGAAAGGAAGAC GAGGAAGGAACCAAAGATAAGGGGGAGAGAGAGGCCGGAGAG AAAAAAGGCGCACCGGAGCCGGGGAGAAGGGAGAGGGACCGG A GAACAAAAAGAAAGAAACAGGAGGGAGGGCACAAAAGAACC
 CCAAGGCACCGGAAAGGGGGAGAAGAATCCGAGGGAAAAAAA
 G G G GAACCGAACGGGGAAGGGGGGAAGGAACCAC GAAAAAAG GAAGAAAGAGAGAGAAGGAAAGGAGGAGGCCAAGGAAGAGGG G GCCGAGGAGAAGGACGAAACGAAAAACGGGACCAGAGGGGA G GACGGGAGAACACAGCAACCAGGGAAGAGGGGAGAGAAAAA GAAGAAAAGCGGAACAGGAAGAAGCCGGCCGGGGGGAGAGAA G G A A G A G A A G A A A A GAGGGGAAAAAAAAAGAGGGCAAAAACC G G G G G GA $\operatorname{G} G A A A A A A A A G A A A G A G A C A G G A G A A A A G G G G G G G G$ A G GAA A A A A A G G G GCGCAGGCCAAAAGGAAAAGGAAAAAAAA G GAA A G G G A A C CA A A A G GCCGAGGGGCCAGAGGAAAGAAA G G G G G G A A G G A A GAGGGAGAACGAAGAACCAGAAGGCCCCGGAA A A A A A GCAAAGGCCAACCGGGGGAAGGGCCGAGAAAGGAAAG $C \subset G A G G A G A G A A A A A A A A G G G G G G A A G G C C A A A A A A A A G G A A$ AAGGCAGGAAAAAGGGGGGGCCGAAGGGACAAAGAACAAGAA C C C C C C A TACCCCCAAAAAAAAAGCAGAGGAAGGGGACAAAG G GAA A GAAAAGGAGGACCAAGGGGGGGAGGACGAGGAAAGAA AAGGAAGGGGCCAAAAAAAAAGAAAAGAGGAAGATTAAAGGG $G G A A G A G A G G A G A A A G A A C A G G A A A A G A A G A A A A A A G A G G C A$ CCGGGGCAGAGGAAAAAGGGAGGAGAGAGACAAGAAAAAGAG AACCGGGGAAGGAGGGCCAGAGAAGGAAAGAACCAACAAAAG A GAGCAGGAAAGAACAGAGGAAAGCCAAAGAGCCCAAAAAGG
 AAAGCCAGAGGGGGGGGGGGAAAAAAGGTTGGAAGAGGGGAA G G G A GAA $A$ A $\operatorname{A} G A A C G G G G G G G A A A A A G G G A G G C C A A A A G A A A$ GGCCAAGGAAAAAAAACCGGGGAAAAGGTAGAAAGGAAAAAA A A A A C CAGAAGAGAGAAGGAAAAGGAAGGGGAAGGAGAAGAA $A C G A G G A A G G C A G G A A A A G G A A G G C A G A C G A A G G A G G G A G A A$ G G GGCCAACCAAGGCAAAAAGAGGGGGGAAAAAAAAGGAGAA
 G G GAGCAGAGAGGGAGGAGAGAAGGAGGAAGGCCGGGAAAGA TTAAAACCCCGGGGAGGGAAGGAACCGAGACAACCAAGATAA A A A A A A G G A A A A G G G G G GAA $A \operatorname{A} G A A C C G A A G G G A A G G G G G G G G$ GAGGTTAACGGGGGAGAACAAGGGACAGAGAGGAGGGAAAAB
 A A A G G G G G A GAAGGGGGGGGGGAAGGGGATCCAGAGAAGGAA

G G G A A A G G A A G G G G G G G G G G G A A A A A A A C CAAAAAAAAA A A A GAAAAAGGCCCAGAGGAAACACAACCTTACGACCGGGGAAGA GAAAAGGGAGGAAAAGAGGAAAAGGGGGAGCCGGAAAAAGGA AACCAACAGGGGAAGAAAAAAAGGAAAAGAAAGGAGAGGGAA AAAACCAGCCAAATGAAAGACAGGAAGAGGCGGGAAGGAAGA CAAACCGAACAAAGCCGGAAAAACAAGGCACCAAAAGGGGGG AACCCAAAGGAACAAAGAAGAGGAGGAAGGCAGGAAAAGGCC AAGGGGACACGGAAAAGGGGGCAAGGGGAAAAGGGAAAAGAG G G C C G G G A A A A A G G G G G G G G G A G G G A G G G G C C A A $G A G$
G G GAAACAAGGGGAAGGGGCCGAGGAAGGGATTACGGGGGG CAAAAAAAAAAAGGAAAAAAAAACAGGGGAAAGGCCGAAAGB A GAGAA $A \operatorname{A} A G G G G G G A A T T C C G A A G G A A G G A A T G A A A G G A A C C$ A A A A A A G A A G G A G A A G G G G G A A G G A G G A A GAA A A A A GA G G A G ACAAGGAGCCGAGGCAGGCAGGGGGAAGCCGGAAAAACGGGC G G GAAAGGAAAAAACCAAAGGAAAGAGGGGGACCGAGCAGCC AAACCCACGGCAAGACGAGGAGGGGGAAAACCCCAAAAAGAG G GCCAAAAAAAGAGGAAGGGGCAACGAGTTAGAAAGCCAAGB A G G G A G G A A GCCA GAAAAAGGGGGAGAAGGGGAGAGCAAAAC A GAA $A$ A $A G G G A A G G A A A G A A T T G G A A A A G G A A G G G G G G C C A G$
 C C A G G GAC G GAACAAGGAAAAAGGGAAAACAAA $A A A A G G G G G G$ ACAGGGAGAGAGGGGGAGGAAGAAGGGACCGGAGCAAAAGAA C C G G A A A A G G C A C A G G A A G A A A A A G G G G G G A G G A G A A G A G G G A G G G G G G G G G A C G GAAA A C C C CA G C CAC G G G G G G C C G G G G C A $G G C A G A A C A A G A G A G G G G A A G G A C G G A A A G G G G G G A A A A A A G$ A GAACCGGAGACGGAAGGAGGAGGACAGAGAAAACCAAGGCC C CAAAAAAGGAAAAGGCCAGGGAGGAGACCGGAAAGGGGAGA $A G C C G G A A G A A A A G A A A G A G C C G G G G A A G G A A C A A G G G G A G G$ AA $A \operatorname{GGGA} C A A A G G G G A A A G A A G G G G G A A A G A A A C G G A G A A A A$ AAAAGGAGGGAAGGAAACGGAAAAGAGGAAGGGGGAGAAGAG A G A A G G G G G G A G A G G G G G A G A G A C G A C C G G A G A G A G G G A G A G A GAGAAAGGGGGGGAAGAGAGAAGAGGGAACCAGGAGACCAA GAAACCTAAAGAGGCCGGGGAAGGAACGGGAAGAAGAGAGAC
 A A G G G GAAAAGGAAGGAAAACCGACCGAAACCGGGGAAGGAA GAGGAAAGAAGAGAGGAAAAGGATGAAGAGAGGAAAAGAGAA ACGGAGGGAAAAAAGGAACCAAAAGGGGGGGGGGGGGGAGAA G GAACCAAGGGGAAGGAGGAACGGCCAAAAGGGGGGAGGACC GAGGGAAGACGGAAAAAGGAAAGGCAAGAAAAAGAGAGAGAA A G G G G GAA A G G G T T A A A CAGAGAACCAAAAGGGAAGAA GAA $A$ CAAGGGGGAAGGGGGAGGCCCCGGAAAAAAAACAGGAAAAAG C C G G A A G A C C A A C C G G G A C A A G C A T T GAGGCCAAG GACAAA G G GAAAAGGAGAGAGAAGGGGCCGGAAGGGGAAAAAAGAAAAG $A \subset A A A G G G C C G G A A G G G A G G G G G G A G A A A A C C G G G G A A G G A G$ A G G A A G G G G G A A G G G A G A A A A A GAAACCAAAAGGGGAA G GAA A A G G A A A A A A G G A A G G A G GACAAAAA $A \operatorname{A} A A A A A A A A A A A G G G G$ A A T T G A A G A GAGGGGGGGAAAGAAGGGGAAGGAAAAAGAGAA CAGGAAAAGGCCAGAGCAAAGGAGACACGGGAGAAACAAAAG CAGAAA AAAAGGAAAGAGAAAAGGAGAGGGAGAAGGGACAAG G G A A C C G G A A G G G G A G A A G G G G G G G A G G G G A A G G A A G G G A C C T T T T G G G GCCCCAAGGAACCGGGGAAAACCGGGGAACCAAAA G G G G G G G G A A G G G G G G G GC C G G A A A A A A A A A A A A A A A A A A A A $G G A A C C A A A A G G G G G G A A A A A A A A A A G G G G G G G G A A A A A A G G$ C C A A G G G G G G A A G G G G A A A A C C G G G G C C G G G G A A A A A A G G A A A A G G G G G G A A A A A A A A G G G G G G G G A A A A G G G GAAAACACAAA G G G G A A A A C C G G C C A A G G G G A A G A A A GA GAAAAA A GAAA A G G
 GACCAAGGGGGAGGGGAGGGAGGGAGAAAGCCGGAGAGAGGA G G GAGGGAAAAAAAAACAAGCAGAGGAAGGAATTGGGGAAAA

G G G GAAGGACAAGAAACAGGCCGGCCAGAACCAAACCAAAGA GAGAGGAAAAGGAAAGGGGAAGAGGGAATTGGCCAAAAAAGG C C GAGAGAGGGGATGGACAGGAAAGGGAAAGGGATTCCBAGA A A G GAA A G GAGGAGGCGAGGCCCCAAAAAGGGGGAAAAGGGA CAAAAGAAGGGGAAAAAACCGGACGGAAGAAAAAAGAAAAAA T TAAAAAGCAGGCCAACAGAGGCCGAGGGAAGGGGAGCCCGG A TAA A GAAAAAGACGGGAGCGAGAAGGAGAAGAAAGAGGAA AAGAAAAGGAGAAAAAAAAAAAGAAAAAAGAGCCAGGAGGCA $A A C C G G A A G G A G G G G G G G G G C C A A A A A A A A G G C C A A G G G A G G$ AAGAAACCGGAAAAAACAAGAGAGGGAGGGCGAGGGCCCCAA G G GAA A A C C C A A G G G G A A A A A A A A A A A GAA G GAAA G G G GA G G
 A A A G A A G G A G A CAGCCGGGGAAGGAAGGGAGAGAAAA GAGAA G G G A A A A C G GCCAAAACCCCCCGGCCACGGCCGAGEAAGGGA GACCAGGAAGAAAAAGGGGGAAAGAGGGAAGGAGGAACAGGA AAAGGGAAAGCCAAAAAAGGAAGAAGCAAGAGGGGGAGAAAA $A G G G A A G A A G G G A G C C A A G G A G G G G A A G G G G A G A A G A A A G G G$ AAGGAAAACCAAAAGGAGAGGAAGAGCAAGAAAGAAAAAAGG A G GAGGCCGGAGGGAGGGAGCCAGGGGGCAAAAACCTTAAGG G G A A C C G A G G G A G A A G G G G G A A G G A A A A G GAA $A$ G A A A A G C A G G G GAAAAGGAAAAGGAGATGAGGACGAAGCAAAAGGGGGACGG AAGGGGAAAGAGGGAAAGAGAAGGAAAGAACCGGAGAAAAAA

 A A G A G G G G C C A A A A $\mathcal{A} G G G G A G G G G G G G G A A A A C C G A G A A G A G$ GAAGCACGGGGGGGAAGGAGAGAAAGAAGGGAGAAAGGAGAA GGCCAAGGGAAAAAAAAAAAGGACGGAAGAGGAAAAGAAAAC G G G G G G A A G G G G C A G A A A A A G G G G A A G G G G GAAA A C C A A G G A A G G G A G G G G G G A A G G G G A A A G G G A A GAGGAAAAGGGGCAA G G A G G GAGGAAGGAAGGAAGGAAAAGGAAGGCCGGCCAAGGGGGG A A G G A A A A A A G G G G G G A A A A C C G G G G G G G G A A G G G GAA G G A A G GAAAAAAGGAAAAAAGGAAAAAAAAAAAAGGAACCTTGGGG A A G G G GCC C G G G G GAAAAAAACAACAGAGGGAAGGAAGGGGCC
 A A A G G A G A CAA A GAA $A \operatorname{AGGGGAGGGAGAACCGCCCACACAAGG}$ AC GAAACGAAAAAGAGCCGGGGCCAAAGAAAGGGGGGGAGAA
 $C \subset G G G G A A G G C C A A A A A A C C G G G G G G G G A A A A A A A A A A A A A A$ A A A A A ACCAAAAAAAAGGAAGGGGAAAAGGAAGGAAGGCGCC
 GAAGAAGGGGAAGAAGAGCCAAAAACGAGACCGAAGCGAGAA A G G G A A G G A G G A A A G G A A A A A A A A G G G G GACCGGGGGAAGAA TACAGAAAGAGGGGGGGGGGAAGGAAAAGGAAAAGGGGGGCC GAACGGAGAAGGGGAAAAGGAAGGGGGGGGGGAAAAAAGGAA G GAGAAAAAGGAGGGACAACAGAGGGGGGGGGGGAAACACAG A GAA A G GACAGGGGGAAGAGAAAAAGAAGGCAGAAGCAAAAG AACCAGGGAAAAAAAAAAGACAGAAAAAAAGGGGCAGGCAGA G GAAAACAGAGGAACCGGGGACGGGGAGGCAAGGGGCCAAGG
 $A G A G A A G A G G G G A A G G G G G A G A G G C C G G A A A A A G A G G A A A G G$ GAAGGGGGGGGGAAAAAAAAGGAAAGAAACGGAGAACAAAAA GAAGGAGGCCAGAAAGCCAAACAAGGAAAGCCAAACAAGAGA GAACGGGCACGGAAAAAGAGAGCCAAAAGGAAAAGGAAAAAA $G G A A C C A A G G A A A A A A A A G G A A G G G G A A A A G G A A A A G G A G A A$ A A A A G G G G A A A A A A G G G G A A A A A A GGGGTTGGAAA GAAAA G G A GAGAGAGGGAAGGAAGGAAGGAGGGAGAGGAAGAAGAAAAA G G G GAGAAGGAAAAACAAACGGCCAGCCGAAAGAAGCCACAG CAAAAAGGAGGAAAAGGGGAAAAAGGCCAAAGGACACCAGAA $A G G G G A A G G G G C A G A G C C G G A C G A G G A A G G G G G G G G A A A A G G$

CAAGAAAACCGGGGAGGAGAAGGGCCAGAAAAGGGGAAGGGG
 A A A A A A GAGGGGAAAAAGAAGGAAGAAGGGAGAGAGAAGGAA A GAA $A \operatorname{GAA} \operatorname{A} G C C G G A A A A G G G A A A G A G G A G G A A G A A A A A G G A$ A A ACAAACGGGAAAAGAGGGGGGGAAGGCAAACCAACAAACAC G GACGGGAGGAAACAGGAGGAAAAAAGGAAACAACCCCBGAG A A A A C C G G G G G A A GAAA $A \operatorname{AGGGAGGGGAAAAAAGAGGAAGGCA}$ A GCCAAAATAAGAAGGGGCCCCAAAAGGAGAAAGGGGACCBG A A A C G G A C A A G G A G G G G G G G A GAGACACACCCAAGGA
A GAGGAAAGCCAAGGGGAAGGGAAGAAGGAGAGAAGGGGGG
 A A A G A A $\mathcal{A} G G G G G A A G A G G G G G G A A C C G G A A G A A A A A A G A A A A$ A A A A A GA $\operatorname{A} G A A A A G G G C C A A G G A A A A G G G G A A A G G G A G A A G G$ AA $A$ A A A A A A A GAGGAAGGCCCCGGGGAGGGAAAAACGAAAA G A G G G G GAGCACCGGAAGGGGTTAGAGGGCCAAAAAAACAAGA A G G GAGGAAAGGGAAAGGGGGAAGAGGGAAAAAAGGGAAAGA G G G G A A G G A A A A A A A A A A $\mathcal{A} G G G A A A G G G G G G G G G G A G A C C G G$ GAAACCGGAGGAAGAAAAGGGGGGGGGGAGCAGAGAAGAACC $G G A G G A A G G G A C A A A A A G C C A A A C A G A A G A G G A A G G C C A G A A$ G G G G A G A A G G A GA G A G G A A G G A G G A C G GAGGAGAGGGCAGAA A GAGGAGGAAGGGAAGAAACGGCCGGAAAAAAAAGGAGGACC
 G GAGAAAAGGGGGAGGCCGGCAACGGGGAAAAGGCCAGACAA AAAACAAAGGGGGAGGGGAAAAGGAAAGGAGGAACAGGAAGAG A A A GAA A G GAAAGGGGGGAAGAGGCCAAGAGAAAGAGAAAAA GGCCAAAGGGAAAAAAAAGGAAAAGGGACAAGAGAGGACAGA G GCCGGGGAAGGCCAAAGAAAAGAGAAGCCGAAGAAAAAGAA AAAAGGGGGAGAAAAAGGGAGGATGGAGCCCCAGGGAAGAAA
 AA G G GAAAAGAAGAAAGGCCGAAGAGGGGGAAGGAAGGAGAA C C C C C C C C A G A A C C A A A A A G A A G A A A C G G G G GTTMGCAAAC C $G G C C A A A A A G G G G G A A A G G G G G G G G A A G A A A A A G G A A G G G G G$ G GAGAGAAGACAAGAGGGGGGAGAGAAAGGAGAAAGGGATGA AAGACAGAGGACAAAGAAAGAGGGAAGGAAAGCCAGACAAGA C C A A A G G G G G G G G G G G A A A A A A G GAAAA A CATAA $A$ A A A GAA $\mathcal{A} G G$ GAGGAAAAGGAAACGGAAGGCCGGACGAAGAAGAAGGGAAAA G GACGAAGAGAGAAGACAGAGGCCGGAGGGGGGGAACCGGGG $A C G A A A C C G G T T G G A A G G G G A A G C A A G G G G C C C C A A C C G G G G$ A GCGAGGAGAGGAAAGAGAAGCAAAAGAAATTCCGGGGAGAA C C G G G GAAAGAAGGCACAGAGGACAGGGCAAAGAGGAAAACA CCAAAAGACCAAGGGGAAAGCCAAAAAAAAAAGGAAGGAGAA
 G G G G G G G G G GAA $A \operatorname{GGG} \operatorname{GAAC} C A A G G C C A A A A A A A A G G G G A A C A$ G G A A A A G G A A G G G G A A A A G G G G A A G G G G G G G G G G G G A A G G A A G G A A A A A A C CAAAAGGGGTTGGCCAAGGAAAACCCCAGAAAA A GACAGGACAAAGGCCCCGGAAAACCAACCACAGAGAAGGAA AAAAGGAGAGGAGGGGGGGGAAATAAAAAACAAGAAGGAGAA A GAGCAAAAAGGGGAAGGGGAAGGGGGGGAGGGGGGGAGAAA G G G GAAAAAGGGGGGGAGAAGAGAAAAAGGGGCAAAGGGGGG C CAGACAGGAAACCCCACGGAGAGAAGCAGAGGGAAAAGGGG
 AAGGCCGGAAGGGGAAAAGGAAAGGGAAAAGGCAGAAAAAAG A G G GCCGGAAAAATAAGGAAAGAAGGAGAGAAAA GAAA GAAA A A A A A A A A A A G G G GAA A G G GAA A GAAAA A G G G G G G G G G G GA A G G G G G G A A A A A A G G A A G G G GAACCAAGGGGAAGGGGAACC G G AACCCCGGGGAAGGAAAAAACCAAAAAAAAGGAAAAAAAAGGG A A G G A A G G G G A A G GCCAACCGGCCAAGGAAGGGGAAAGGGGG A A A A A A A A A A A A G GAA $A \operatorname{AGGGAAAAGGAAGGGGGAAAGGGGGG}$ G G G G G G GAGAACAAAGGAGGAAAACAGGCAAGAACCGGGGGG

AAAACCAAAAGGGGCCGGCAACGAGGGGCCGAGGAGAGGGAG AAAGGACCGGGACCAGAGAAAAAGACGGGGAAGGGAAGACAA AA $\mathrm{A} G C \mathrm{C} G \mathrm{G} G \mathrm{G}$ GAACCAAAAGGGAGAAGAAAGAAAAGGGGAGAA AAAAAAAAAAGGGAAGGAAGCACAAACAGGCCAAAGAGGGGG GGCCAAACAAGGGACAGAAAGAAAAAAAAGGACCCGAGGGGA A A G G G GAAA A A GCCAGGGAAGGGGGACCCCGGAACCAAGGGG A A T T G GCCGGGGGGGGAAAAAGCCAAAGAAGGACAAAAAAAA G GAGGGAAAAAAGGAACCAGGGAATAGGGAGGAAGATAAACC GAGGGGGGAGAAGGGGGGGGAAGGCCGAAGAGAAGGGAAAAA GAAAGGCCAAGAGAAAAGAAAAAGGGAGGGCAAGGGGAACAA G G G G A GCC $C$ G G G A A G G G GC C G G G G G G G G A C G G G G C C A G A A G G A G A A A A GACGGGGGCAGGGGAACGACAACCAAAAACCGGGGG A GACAACAGAGAAGGAAAAGGGGGGGAAAATTAAAAGAAAAA A A G G G GA $\operatorname{G} A A \operatorname{A} A A A A A A G G A A G G G G A A A C A G G G G A G G C G G G G A$ A G G GAACCAAGGGGGGAAAAGGGAGAAAGAAGAAGGGGAAGA G GAAGAGAGGCCACAAGGAACCGAGGGAAGAGGGAAAAAAAC GAGGGGCAGAGAAGGGGGAGGGACGAACGGAAAGACAGAAAA G G G G A A A CA $\operatorname{A} G \mathrm{G} A \mathrm{~A} A A C C G G A G A A G G G G A A A G A C G G A G A A G G$ AGACAGGAAGAAACGGGGGGCCAAAGGGAAAGAGGAGGCCCA A G G A G GAGGAGGGAAAAAAACCAAGGGGAGGAGGGAGAAAAA AAGGGGGAACAAAGAGAAAAAGAGGAGAAAGGAAAGGAGAAA
 $A A C C A G C A G G G G G G A G G G A A A G A G G A G A A G G G A G G A A G G A G A$ GAAGCAAAGAGGAAGGGGGGGGCCGGAAAAGGGGAAAAAAGB $G G A A G G A A G G G G G G A A A A G G A A G G A A G G G G G G A A G G A A G G A A$ A AAAGGAAAAAAGGAAAAGGAAGGAAGGGGAAGGAAGGAGGA G GAGGAGAGAAAAAAAACGGGGAGCCGGGGGGGAGAAGAAGA
 G GCCGGAGAAAAAGGGAAGGGAGGGAAAGGGGGAGAAAGAAA CAAAAAAAGAGGGAGGAAAAAGGGCCGGAAGGAAAAAAGGAG G G A A G G A A G G A A G G A A G G A A G G G G A A G G G A A A G A GA G G A A A $G$ GACAGGAAGGGGAAGGAAAAAGCAGAAAAGACAACAGGCCAA AAGGAGCCAAGAAGGAAAGAACGGAAAGCAAGAAAGAACACC AA $A G A A C A A G A A G G A A G G G A A G G A A G A A G G A A G G G A A A A G A G$ G G G G G A G G G G A G G A A G G A A A A G C CAAAAGGAAGGAAAACAA $A$ GAAGAGCAACCAAGAAAGGGGGAAAAAAGGAAGAGAAAAACC AAGGGGAGCCGGAACCGGAGCCAACCGAGGAGAAAAAGGGGG GAAGAAAAGGGAGGAAAAGAAGCCAAGGGGAAAAAGAGAAGA A GAAAAAAGGTTGAGGGAGGAAAAAGGGGAGAGAGACCAAAG A CAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A C \subset A G A G C \subset A A G A A A G G A A G G G G A G G A A A A A$ A GAGGAAGCCAACCAGAGACGGCCGGGGACAGAAAAAGAAAG G G G G A A T TA $A G G C C A G G G A A C C G G C A C C A G A A C C G G A G B G A A$ G GAA A A A A A GCAGGAGCCGAGGGGCCAAGGAAGAAACCGAAG GAAGGACCAAAGGGGAGGAACCGAGAAACCAAAAGGCAGGAA G G G A G A G G A C G GAA $A \operatorname{GGGA} G A G G A G A A G G A A A G A A G A G A A G A G$ GAGGAAGGGGGAGGAAAAGGGGAGAAGGACGGGACCCAAGAA AAAAGGAAGAAGAAGGAGAAAAAGGGAAGGGGGGAGAAAGAA GAGGAAAGGGCCGGAAGGGGAAAAAGGGGGGGCCGAGAAGAC A A G GCCGGGGGAGGAAGAGGCCACGGGGAAGGGGAAAAGGGG G GAACCAGACGAGAAGGGGAGGAAGGGAGGAAACAACAAAAA G GAA A G G G G G G GAGGGAGGAAGAGGACCAAAAGGCCGGAGAA CCGGGAGGAAGGGGACGAAGCAGAGGAAGAAAGAAAAGGGCC
 GAGAGGGGCAACGGAAGGGGAGGAACGGGGCAGGCAAAGGGG A A GAGGAAACGAAGAGACGGGAAGGACCGGGAGGGGGGGGCC GAGGAGAGGGAAAAGGAAGGGGAAGGGGGGAAAAAGAAGGAA CAGGAGGGGGGGAAAGAGGGAAGGAAGGAGGGGGAAAAAA G $A \operatorname{A} A$ A A A A T A G G G G T A A G G G CA $\mathcal{A} G G A A A A A A A G G A G A G G G G G B G A G$ A GAA A G G G G G GAA $A \operatorname{AGGGGGAAGGGGAGGGGCACAGAAAAGCC}$

C CAAAAGGAACCAAAAAAGGCCAAAGGAAAAGAAAGAACAAA AAAAGGAACAGGCCAAAAAAAAAAAAGGGGGAACAAGGAAAA GAGGGAAAGGGGAAGAAAAAGGAAGGAGAGAGGGAAAAAAAC AACACAACAAGGAGAAGGGAGGCAGCGGAGAGAGAAGAGGGA GAGGAA $\operatorname{A} G A A G A G G G A G G A A G A A A A A G G G G C C G G G G C C G G G A$ G G G G G G G G G A A G C C G G A G A G A A G G A A G G G G A A G A G G A A G G G A GAGGGAAACAAAAAAACCACAAGAGAAGAACAGGGAGGAABA CAAAGGCAGGGAAGAACCGGGGAAGAGACAAGAAAGAAAGAT G G C A A A G G G G A A A A A G A A G G G G GAC GA G G G G A C A G G C
$C G G G G A A G G A A A A A A G G G G G G A A A A A A A A G G A A A C C A G G G G$ AACCACAAGGCAACAGAAAAGGGGAAGGAAGGGGAAAAAGGG $A G G G G G G G G G G G G A G G G A C A G G A G G G A G A G G G A A G G G G A X T T$ A A G G G GAAGACAAAGCGAGGGACAAAGGGACCGGAAAAAAGG AAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGACGAGGACCA AAAAGGGAGGAGGGAAAAAAAAGGGGGGAACCAAAAGGCCAA AAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGAAAAAGAA ATAGGAAGAAGAAGGAAAGGAAAAGAAGGGGAACGGGGAGAA A G G G G A A G G G A GAAAAAGCAGGCCGGAGGGAAAGAAAGAGAG G G G G G GAA $A \operatorname{ACC} C A A A G G G A G G A A A G G A G C A G A G G G G G A A G A$ GAGGAGGGAAAAGAGGCCGGAAGAAAAGCCGGAGGGGGAAAA A A G G A A G G A GAGGGGGAACCGGCCAGGAAAAGCCGGGAAAAA G G G G A A A G G G G GAA A G G A A CAA A A G G C C G G G G A A G GAA A A C C A A A G G G G G GAGAGGAAGAAGAAAATAGAGAAAACCCAAAGGA CAGGCCCCAGAGAAGGAGCCAGGAAGGGAAGGAGAAAAAAGB C C G G A A C C G G G G A A C C A A A A G G G G G G G G A A C C G G G G G G G G C C A A G G G G G G A A A A G GAAGGGGAAAAGGCCAAAAAAAAGAAAAA $C \subset G G A A A A G G A A A A G G G G G G A A C C A A C C G G A A G G G G G G A A G A$ A A G G G G A A G G G G G G A A G GCCGGCCGACAAGAAGAGGCAACAA G GACGAGAGGGAAGGAAGAGGGAACCGGAACCAAGGAGAGCC CAAACCGGAACCAAAGAAGGAACAGGGGGGACAAGGBACCAG G A A A G G A C G G C C A C C C G G A A G G G G G G A A G A GAAACAAAAA A A GAAACAGGGGACCAAGCCCAGGAAAGGAAGAGGGGAAAGAAA ACAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} A A G G A A A G G A A A G A A G G G G A G A A A A G A G A G A G A$ $A G C A G G G A G A A G A A G A A G G G A A G A G G A A A A G G A G G G G A A A A A$ CAAA A G G G A A A G G G A A G G G G G GCCTAAAGGAAACCCAA G GAA AACAA $A \operatorname{A} A A A C A A G G G G G G A A G G A A G G A G G A G G G G G G A A A A G G$ G GACCCAAAAAAGGGGCCGGGACCGGAACCAAGGAAAGAGAA A G GAGGGGGGGGGAGGAGGAAAGGCAGGAGCCCACAAAAAAAA AAGGGGAACCAAAAAACCGGAAAGACAGAAGGGGGGGGACAA A A A A G A GAAAGGGGAGGGGGAACCGGAACCAAGGAAAAAAAG $A G G G A A A A A G T T G A G G G G G G G A A A A G A C G G C C G G A G G G A G A G$ G A G G G A A G A C A G A G C C C A G G T T A G G G G G A G G G G A C A G A G G A G AAAAAAGGAAACGAGAAAGGGGCCGGAACCCAAAGGAGGGAA GAGGAAAAAGAGGGAAAAAAAAGGAGAGGGGGGGAAGGEGTA AAAAGGAAGACCCGAGAGAAGGGAGGAAGAGGGGAAGGAAAA A A G G C C G G G G C C G G G G A A T A A A A A $\mathcal{A} G G G G G G G G G A G G A A A A A$ A G G A C A A G G G G A G A G G G G G A C C G G A A A A A GAA $A \operatorname{AGGGA} G A G A G$ AAA A G GAA A GCCAAAAGGAAGAAGAAAGAGCAGGGAGGGGGG AACAAGGAGGAGAAAACCAGTTAACCAAGGGGAAGGAAAAGAA C C G A A A G A A G G A GAA $A \operatorname{GCG} G A A A A G A A G G G G A G G A G A C A A G A A$ G G A A A A G A A A G G G G G G A A G GAAAA $A \operatorname{A} A A G A G G G A G G A G G C C G G$ A A GACCGGAGAAGAAAAACAGAAAGGGGGGAACCAAACACCC G GAGGGAAGGAAAACCAAGGGAAAGGGAAAGGAAAAGGGGTT A A A A A A A GAAAACCCCGGAAAAAAAAGGATGAAAAACCGGAA AA GAAAGGCCGGAAAACCAAACGACCAGGGAGAAAAGGAGAA AAAAGGGGAGAAGGAAAGGAGGAAAAAGAACCAAAGGGAAAG C CAGAAGGGAAGGAGAGGGGCAAAGGCAAGGACCCCGAAGAA AC G G A GCCGAAACCGACCGGGGAAGGAGAACCBAGGGGAGCC G G G GCAGGGAAGAAAGAAAAAAAAGGGAAAAAGAGGAGAGAG

ACAACCAGGGGGCCTTGGAGCACACGCCGGCCGGAAAAAAGG A A A G A A A A A A A A G G A A G G A A A C A G G A G G G G T T G G G G A G G G G G G G GACAAGAAAAGGGGGGCCCCAAAGAAGAGGAGAAGGAGAG A G GAAACAGAGGCAAAGGGGAAAAGAGAAAGCCCAAACAAAA AACCAAGGGAGGAACCAAGGGGGGAGCCGGACCAGAGACAGC GACAACGAGGGGAACCAAGGAGAAAAGAGGGAGAAGA GAGGG G GCCGGGGAAAAGACAGGAAGGAACCCCAAGGAAAAAAGGCA ACACGAAAAAAAACGGCGAGGACAGGACCAGGGAAGAAAAAA A C G A $\mathcal{A} G G G A A G G A A G G C C G G G G G A A A G G A A G G G G G G A A A C A C$ GACGAAGAGGCCGGAGGGGGGGAAAGAGAAGGCAGGGGAGAG G GA $A$ A $\operatorname{GAA} A A A A A G G A A G G G A G A G G A A G G G G G G G G G G A A G G A A$ C C G A C C G G A A A GAA $A \operatorname{AAGAGAGGGGGGGAGGAAGGAAGGAGAA}$ G G A A A A A G A A G G G G A G A GA G G A A G C A G G T T G G G G C C G G G G A A

 GAGAGGGGCCAAAGAAAGAAAGGGGAAAAGGGCCGGAAGGCC CACGGAAGCCAGAAAACCAAAAAAAAGAAACCGAGGAGGGGG A GAAAAAGGGGGAAGGCCAACCAGGGAAAGAGGACAGAGGAG $A C C G G G C A G A A G G A A A G A C C G G G G A A G G G G C A G G A C A A G G A A$ GACCGGAACCAAGGAAAACCAACCGGAAAAGGAAAACCACAA G G G GAAAAAAGAAGGGGGAAGGAACCAAGAGGACGGAAAGAG A A G G A C A A G GAGGGGAGGAAGGAGAAGGAAGGGGGGGAAAAA G G G A G G G G A A G G G G G G G G G G G G G G C C G G A A A A A G G G A A A G G G GACC G G G G GAAAGACCAAGGAAGGCXAAGGGGGGACAAGGAG G G G G A A A A A A C C G G A C A G G A A A A G G G CA $\mathcal{A} G G G G A G G T A A C G G$
 G GAGGAGGAGAGAAGGGGAAGAGGGGAGCACCGGCACCAGGG $A C C G C C A A A A G A G A A C G G A G G G C A G A A G C C G G G G A G A G A A B A$ A A A G G A C C G GAGGGCAGACCAGGAGGCCGGGAGAGAGAAAGA AACCGGGGGGAGGGGGAAGGAAGGGGAAGGGAGGGAAAAGGG A G G G G G G G C C A A A A C C G G A G A G A A G A A A C C A A G G G G G G G G A A G G G GAA A ACGGGACGGAGGAAGGGAAAGAGGGCCGGGGAGCA
 $A G C C G G A G G G G G C C A A A A A A A G A G A G G G G A G G A A A G A G G G G G$ G GAGAGAAAACAAGCCGGAGAAAAGGCCAAAAAAAAAAGAAG A G A A G G G G A G G G G G G G A A A A A A $\mathcal{A} G A G A A A A G G G A A A C C A G A G$
 G GAACCGGAAGGCCAAAAGGGGCCAGCCGGGGAGAAAAAGAC A G GAAAAGGACCAAGGGGAGAAAAAAGAAAAAGAAAGGAACA GAGGGGGAGGAGAGAAAACCGAAAGGGGAACAAAGAACAAAA GAGAGGGGGAGGAAAAGGAAAAGGGGAGAAGAAAGACCAGAG GAAACCGGGGAGCCATAGAATTCCAAAAAGGGAACCAAGBAA G GAAGGAAAAAAGGGGAAGGTTAAAAGGAAGAGGGGAGAACA A A G G A G G A GA $\operatorname{A}$ G A G A G A A G G G G G G C A C C G A G G G G A A A G G G A A G GAGAGGGGAAGGAGAAACCAAAAAAGGAAAAGGAGGGAAAA G GAA A GAA $A \operatorname{GA} A C C A G G A A A A G A A G A G G A G G A G G C C A A A G A C$ C C C C A A GAGGAAGGAAGGCCCCAAAAGAGAGGGAGGAGAAAG A G G G G A A A A A C CA G G CACAA $A \operatorname{AGGGAA} G A G A G G G A G A A G G G G G$ GAGGAAAAGGGAATAGACGAGGAAAAAGGGCAAAGGGGACAG A A G GCACAGGGGAAAGACCCAACCGGGGGGAGAGGAAACAAC G G A T T T A G A A G A A G A G G G G G G G A G G A G G A G C C G A C C A G A A G G ACGGAAAAACGAGGAGAAGGGAAAAACCGGAACCAAAAAAAA A A G G G G A A A A A A A A A A G G G GAGAAAAAGGGAACCAAAA GA GA GAGGCAGAGGCAAAGAGGAGAAGGGGGGAGAACCAAAAGAAG AAAGAAAACCGAGGGGCCCAAAGAGGAAGGAAAAAGAGAAAG A G A G A A G A A G A A G G A G A G G G G A A A A A G G G A G G G A A G A A A G G A
 $G G A A G G A A A C C C G G G G G G G A G A G G G G G G G G A G A G A A A A B A G E$ GACAAAAGGGAACCGGGGGGCCAAGGAAGGAAGGGGCAAAGA

G G G G G G G G G G G GAAAAGGGGAACCAAAAGGAAAGCGGAGAAA
 A A G G G G A G A G A A G A G A G A A GAA $A \operatorname{AGGGGA} G A A A A G G G G G A G G G$ A GCCGGAAGGAGAGGAAGATAAGCGGGGACAAAGACAGGGCA A A GAGAGAGGAAGGGGGGGAGAGGGGGGGACCAACCGAAGGG A GAGAAAAAAGGAAAAAAAAAGGCAAAAGGGGAGAAAAAAAG G GAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A C A A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A C C A G A G G G G A G A A A G G G G G G$ G G G GAGGGAACAGAGGAAAGAGGGGGGGAAGGAAAACCACGA AACCGGAAGGCCCCGGAAAAAACCAAAGAAGAGAGGG
GAGCCAAGAGGGGAGGAGGCCCAGGCAGGACGGAACAAGCC G GAGGACAGACCGGGGGAGGCCAGAAGAGGAAAGAAAAGGCC A A G G G G G G A G GAGGAGGGAGCAGGGAGGAAAGAGAAAAGAAA A A A G G G G A A G G A G A G G T T A A GAA A A GCCGGGGAG GAAA G G G A G GAA $\operatorname{G} G A G A A A A C C G A G A A G G G A A G A C A G G G A G A C A G G A T A G$ G GAAGGGGCCAAAACCAAAAAAGGCCAAAAGAGGGGGGAAGA A G G GA A A A A A A A A A G G G GAAGGGAGGAAGGGGACAGAAAAA G
 G G A A A A A A G G G GAAAAGGAAGGGGCAGGGGGGCAAAGAGAAG A GAAAAAGCAAGGGGGAAAAGGAAAAAAGACCACAAGGGGCA A A C A C C G G GAG G G GAAAAGGAAGGGGCCAAGGAGAGGAAAAA AACCGGAAAAGGAAGGAAAGCCGGGAGAGAGAAGCGAAAGGG G GAAA A G G G G A A A G G G A A A A GAGGGGAAAAGACCAGCC G GA G GAAAGGGACCGAAGGGGGAGATGACGCAGGCAGAAACCAAAG G GAGGGAAGAAAAACAGAAGGGGAGGGGAAAAAAGACAAAAA
 $C \subset C C G G A A G G G G A A A A G G A A G G A A G G G G A A A G G A C A G A A C G G$ A A A A A ACCAAGGAGCAAAAGGGCAAAGGGAAAAGAGGATTAA GAGAAGCCGGAAGGCCAGAAGGCCAGAAGGGAAAAGGACCBG A A A A G G A G G G G A G A G G G G A G A G A A G GAG G A G A G G A G G G G G G G G GAAAAAAGAGAGGAACCAAAGCAAAAAGGAAGGGAAAAAAG G G G A A A G G G G C C G G A A T T A A A A A A A A A A A G GAACA GAAAAA A AAAAAAGGGGGGCAAAAGGAAAGGCCAAAGAAAAAGCCGGGG AAAAACGGAGAACCGAAAGAGGCCCAGGCAGGCCACAGAGAG A A GA G G C C A A A G G A A A G G A A A A G G A A G G A GAAAA A A A A G G C C GAGGGGACCAAACCGGAAGAAGGAGAAGCCGGGGAGBCAAGA A C G G G A A A G G G G G A G A G G A CA A A A A A A C A A G G G G A G G G G G A A C CAA $A \operatorname{GGGA} C \subset C A A A C G G A A G A A A A G G G G G G A A G G G A A G G A G$ GA GAAAAAGGAGGGAAAACCAAAAAACGGGGAAAGGAGAAGA A A A A A G A A A A G A A C A A A A GAGCAGGAAAAAGGGGGGGAAGAA
 A GAAAGGAGGAGGAACGGGGGGGGAAAAAACCAAGAAAAAAA G GAAA $A \operatorname{AGGGGA} G C A G G A A C A A A A G A A G G A A A G G G G G A A A G T T$
 A A G G G A G A A A A A A A GAA A A G GAGAGGAAGGAAGG GAAAAAAA A A ACCCGGAGAGGGGAAAACCCGAAGCCAAGGTTAAAAGAGA GAACGGAAGGGACAAACAAGAACCAAGGAGAGAAAGGAAABG G GAAGGGGACAAAAGAAAAGAGGGCCGGGAAGAAAGAAAAAG G G G G A G A G G G C A G G G G G A A A G G A A C G G G G A G G C A G G G G G G G G G G G GAGAGAAGGGGGAAAAAGGGGGGAACACCGGCCAAAAGA G G A A G G G G A A G G G G A A A GACCC GAGGGAGAAAAA G G G G A A GAC A GCAAAACAGAGAGAAGAGGGGCCGGGGGAAGGGGAGGAGGG $G G A G C C G G G G A G A A A A A G G G C A A G A G A A A A A A A G A A A G G G G A$ A GAGGGAACCGAAAAAAAAAAGAGGGCCAAGGGGGGGGGGGG AGGGAACAAAGGGGAAGGCCAAAGGGAGGAGGAAAAAAAAAA A G G GAAGACCACAAGAAAAGAGAACCGACCGGAAGGGGAAAAA GAGGGAGGAACAAAAACCAAAAGGAAGGGGAGAGAAGGABAA GAGGAAGAAGCAAGAGGGGGGGGGCAGGAATTGAGAGAACAG A GAGAA $A \operatorname{A} \operatorname{A} A A G A A G G G A C G A A A G G A A G G G G G G G G G G C C G G C C$ $A A G G A A G G A A G G A A G G G G A A G G G G A G C A A A A A C A G G A A A A A G$

A GACGAGGGGGGAAAGGGGAGGGGACGGGGCCGAAAAAAGGA G GAGGACCGAGGAGGACAGGGGAGAAAAGAAG
$11026000-9 \mathrm{G} A \mathrm{~A}$ G A G C C A G G G G G G G A A G G A G G A A A A A G G G G C A AAAGAACCCCCCAAGGAGAACAGGGAAGAAAGCCAAAAGAAA $C C G A G A A G G G G A G A G G A A C C A G A A G G A G A C G G G G C C G G G A A A$ A GCCAAGGAAGGAGGAGAAGGGAGAAAAGGGGCAAAGAGAAA A A A A G G G A G G A A A G A C G G G GCCGGAGGGGGAAAAGAAAAAAA $A C G A A C G G A C A A A G G A A A A G G G G A G A G G G G G G A C A G C C B G G A$ G G A A A A G G G G G G G G G G G G G G A A A A G G G G G C G G A T A G A A G G A A AGAAAAAGGACCAGGAAAAAGGAACCAAAGGGCCGGAAGGAA
 CAGAAGAACCAAAAAAAAGAAGAAAGAGCCAAGCAGGAAA G G GAGGGAACGGAAAACCAGGGAAGGAGAAGGAAAAGGATAAAG A A G G G GAA A GAACCGAGGAAGAGAAATTCCGGGGCCGGAACC AAGGAAGGAAAGGAGAAAGGAAAAAAAAAGCCAAACAGAA GA G GAA $A \operatorname{GAA} A A G G G G G G A A A A A G A G A C G G G G G G A A A A C C A G A A$ A A A A A C G A A C G GAC G G CA $\mathcal{A} G A A A A A C A G G G A A A A A G G G G G G G G$ G G A A G A GAGGAAGCAAAAGGAGAAAACCAGGAGGAAAAGAGG
 GAGGGGAGCACCGCGGGGAGAGGGAAGGAGGGCAAGAAGAAA AAGAGACAAGAAGGGGCCAAGGAAAAGGCCGGAAGGGGAAGG A GAAAAACAAAAAACAGAGAAGGAAATAAGCCAAAAGGAGGG GCGAGAAAGGGGACCCGAAGAAGGAACCGGGGAAGGGGCCGG AC GAGGCCGGAAAAGAGGAAAAAGGAACGGGGAAAAAAAAAA G G A A G G G A A A G G G G G G A A A A G G G G A A A G G A G G A G G G A A A A G G G G G GAAAAGGAGGGCCAAGAGGCACCAAAAAACCAGGACGGA GCAAAAAAGGGGGAGGGGAGACGGGGAAGGAAGGAAAAGACC GAAGAAGGATAAGAAGGGAGCAAAACAAAAAAAAACGAGAGG A A G G G A A G GAAACCGGGAAAAGGGCCAGAAAACCAAAGAAGG GGAAAGGGAACCGAGAAAAACCGGCCAGGGAAGGAAGGAGAA G G G G G G G G A A A G A GAACCAGAAACCCGGGGGAGAAGGAAGAA AACCGCCACAAAAAAGGAGGGAGGAACCAAAAACAAAGGGGG CAGAAAGGAAGACCAAGGAAGAAGGAAAGGGAGGGGGGAGAA A G G G G A A A G G C C A A A A A A G GAA A G G G G G G A A A G GAAG GAAA A A A A A A ACAGAGAGGGGAAAACCGGAAGGCCAAAGGAAAGAAA $G G G A A A A G A G T A A G G G C A A G G G G G C A A T G G A A A A A G A A G A C A$ AAAGGGAAAAAAAAAAGGGGAAGGAAGAAGAAGGGGAAAAAA AAGAAAGGCCGAAGAGAGCAGAAACCAGAGAAAAACAGAGAG GACGAGACGGCCAAGGGGCCGGGGAAGGAAGGCCGGAAAAAA GAACCCAGCAGAAAAGAGAAAGAACAAGAAAGAGGGGACAAA G G G G G G T T A A G G G G G G A A A A G G GAGGGAAAGGGAAAAAAAAA
 A A G G G GAAGGAAAAAAGGAAAAAAAAAACCGGCAAAGAAAAA G G G G G G G G A A G G G GAACCGGAGAGAAAGAAGAAA GAGACCAC G G A A A A A G A A C C G GAGCCGAAAAAAGGGAGGGA GAA G GA G C C G GCCCAAGGAGGAAACAAGGAGAGAGACGAGGGGAGGGAGAA
 A A G G G G T T CAA A G G G GCC G G G GAAAC GAAAGAGGCCA GAAAA A G GA $\operatorname{A} G A G G G G G A A A A G G G G A A A A A C A G G G G A A A G A C C G G G G$ G GAGAGGGAGAAAAGGGGAAAAAAGGCCGAACAAACCAAAAA A A A A A A A A G G GC G A GAGAAGAGGAGGGACAAACCAAAAGGAA G GAAAAGGGGGGAGCCGAGGGGGGAGGAAGAAAGCCGCAGGA G G G A G A A G A A C C A G A A A G A A A C G G G G G G A A GAC C A G G G A G G G A GAAAGACAAAGAAAAAAAAGAAAGAGACAAGGAGAACGGAA G G G GAAAAAAGAACAACCAGAGGGCCACGAAAGGCCGAGAAG GAAGGAGAGACCAGCCGGGAAAACCACAGAGGAACCGAAAGB GAAGAAGGAAGAAGAAAAACGAAGGGAAGGGAGAGGAAACGB G GAACCGAGACCCAGGGACAGAGAACCCGGCCAAAGAGGAAA G GAAAAAAAAAAGGAAAGGGCCGGAAAGGGAAGAGGAAGGGG

AAGGGGCCAACCCCGGAAGGAAGGAAGGGGGGGGAAGGAAGG G G A A A A A A A A G GAA $A \operatorname{GAAAAACCGGAAGGAAAAAAGGCCGGAA}$ G GAACCGGAAAAAAAAGGAAGGAAGGGGGGGGCCGGGGCCGG AA $A G A A G G G G A A A A A A A A G G G G C C A A G G A A A A A A C C C C G G G G$ AA $A \operatorname{GGGGGGGA} A \mathrm{~A} A A A A A A A A A A A A A G G A A G G G G A A G G G G G G G G$ A A A A A A G G A A G GAAGGCCTTGGTTAAAGGAAAAAAACACCAG GAAGAGGAGGGGAAAAAAAGGGAGGACCAAGGAAAAAAAGEG GAAGCAAGGAGGAAAGAGACCAAGAGAGAGCCGGAGAGAAAA A A A A A G G A T T A A A A A G CAA A A G G G G G G G A A G G G G G G A G G G G G GAGGAAGGACAAAAAAAAGGGGGGAAACAGGGAAAAGGAAAA G GCATA $\mathrm{C} A \mathrm{~A} G \mathrm{G}$ GAGAGGCCGGAAGAAAGGGAAAGGAAGAACAA
 C CAAAAGGAAGGGGAAAAGGCCAAAAAAGGAAAACCGGGGGA A G G GAA A A GAGAAAAAAAAAAACCGGAAGGGGAGAAGAAGAA G G GA $\operatorname{G}$ GAAAAAAAAGGAGGACCGGGGCCGGAAGGCCCCGGGG $C C G G A A A A A A G G G G G G G G A A A A G G C C A A A A A A A A G G G G A A G G$ A ACC G GAA A GAAGGGGAACCGGAAGGAAGGCCGGCCAAGGGG
 $G G A A A A A A A A G G A A G G A A G G A A G G A A A A A A A A G G G G G G G G T T$ G G G G G GA $\operatorname{G} \operatorname{GA} \mathrm{A} G \mathrm{G} A A A A A A A G G G G A A A A A A A C G G G G G A A G A A A A$ G G G G G GAAGGGGCCGGGGGAGGAAAAGGAACCAACCAAGGGG G G A A G G G G G G A G A A A A G G G G A A G G G G G G G G A A A A A A G G G G C C G G G GCCGGGGAAAAGAGGGGAAGGAAGGAGAAGAAAGGGGGG G GAGGGGGGAAAAAGACCAACCGGGGAAAAGAGGGGAGACAA

 A GAGAAAGAGGAGGGAACCAGGGAGGAAAAAGGGAAGGAGAT GAAGCCGAGGTTGGGGACCGTAGGGGAAGGAAAAAAAGAGAG G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A G A C A G G A C A A A A A A A G G G G A G G A A A A A G$ ATGACACCGGGGAATTGGAAGGCCGGGGAAGGGGCCAACCAA G GAGAGAAGAAAGGGACCGGAAAAAGGAAAAAAAGAAAAACC AACCGGGGAAGGGGAAAAAGAAGGAAGAACAGTTGGGGGGAA A A A A GAGAGGAAGGAAGAAGGAGAAAGGGAAGAAGAAAAAAC AACCAGAAAAGGAAGGGAAAGAAAGGAAGGACGGCAGAAAAG A A G G G G A A G G G G A A G G T T C C A A G G T T A A A A C C G G G G A A G G G G A A A A G G A A A A G G A A G GCCCCAAAAGGAAGGAAAACCGGGGGG A A C C G GAA A G G G G GAAGGGGAACCGGGGGGAGGGACAA G GAA A GAGGAGAGAAACAGGCCGAGGGAAAGGAGAGAAAAAAAGCC AACCAAGGAAGGACCCGGGGAAAAAAAAAAGGAGAAAAGGAA A ACCAAGGAGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG G G G GACAC GAACGGGAGGAAGGAAGGAAAAGGAAGGGGCGGG A A A A A GAA A G A A C C G G GAGGCAGGGAGAGAGAGGGGGAAAAA G GAA $\operatorname{G}$ GAGAACAAAAAAAAACCGGAAAGAGAGGAGGAAAACAC G GCCGAGGAAAGAGAAAAAAAAGGTTGGGGGGAAGGGGAGAA A A A A A A G GCCGGAAAAAAGGAAAAGGAAGGAAAAAACCAAAA C C C C G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G G G C C G G G A G G G G A G A G A A G A A A$ G G G G G A G G A A G G A A A A G GAAGAAGAAAGACAAGAAGAAAAAC G GAA $A \operatorname{GAA} \mathrm{~A}$ G G GAAAAGGAAAACCGGAAGACCAGGGAAGGGG AACCGAAGAAAGGGGAGGAGGGGAAGCCAAAAAAGGCAAAGA TA $A G G G A G A G C A G A G G G A A G A C G G A C G G A C G G G G G A G G A G A A$ GAGGGAGGGGCCGGCCGGCCAAAAGAGACCGAGACCGGGACC AC G G GAGGCAGGCCGGGGAACCAGGGAAAACCGGGAAAGGGG G G G A G G A A G G A G G G C A A C G G G G G A A A G G A A A A A A G G G C A A A A AA GAAAGAAGGGAAGGAGGGAGACATAGAGGAAAGGAGGGGG AACCAAGAGGAAAAAAAGGGCACACCCCCCGAGAGGCCAGAG A A A C A A G G G G A A A A A A G G G G A G G G G G G G C C G G G G G GA GAAC C ACGGAAGAAACCAAAAAGAAAAAAAAGGAAAAAAAAGGAGAA TA $A$ A A $\operatorname{A} A A A A \operatorname{A} A G G A A G G G G G G G G A G G A A C A G A A C C G A G G G G$ $A A G G G G G G A A A G A A G G G G A A C C A A A G G A G G A A G G A A G G G A G G$

AAAAACAAAACCGGGGAAGGAGAAGGAAGGGGGGGGGGAAGG G GCCCAGGGGGGGGGAAAAGGAACGGAGAACCACAGG
A A TAGGAGAGAGGGAAAAAAAGAAAAAAGCGGAGBAAAAGBG $A C \subset A G G G G C C C C A G G G G G A A A G G G G G A A G G A A A A C C G G A G C C$ G GACAGGGAGGGGAAGCAAGGGCCAGAAAGAAAGGAAAGGGG A G G G A A GA G GACAGAAAAAAAAGGCCAAAAGGCCAAAA GAAA G G G G G G G G G G G G G G A A G G G G A A G G A A G G A A A A G G G G G G C C A A AA $A G G G A A G G G G A A G A A A A G G A A A A G A A G A A A A A G G C C A A A G$ A C G G A A G G A A G G G G G G A A G G G G A A A G A G A G C G G G G G A A A A G G $C G C C G A A G G G A A C C T T A A A A A T G G G G T T C A G G A G G G A A A A G G$ GAGGGGAAAAAGGGAAGGGGAAAAAAAAGGGGAGCCGAAAGB A A A A G G G G G GCCCCCCAGGAGGAAAAGGGAGGAGGAACAAAG CAAGGGAAACGAGGAAAGCCGGGGCAGAAGGAAAGGGCAAAG A A G G A A $\mathcal{A} G G G G G A G G G A A A A G G A A A A A A G G G G G G G G G G A C A A$ $A G C C A A A G G G A G A A A A A A A G A G G G G A C A G A G G G G A G G A G A A G$ AAAAGAAGAGAAGGACAGCCAGAGAAAAGGCCAAAGAAGAAA A G G A G G G A G GAGGGCCGAGGAGGGGGAAGGAAAGAAAAAAAA A A G GCCAACCACAAAAGGGAAGGGGACCAAAGGGTTAAGGGG GAAGAAAAAAAAAAGGGGAAGGGGGGCCGGGGGGAACCAGAA GAGGAAAGAAAAGAGGGGCCGGGGCCAAAGAAAAGAGAACAA AACCCCAAGAAAGACAGAAGAGAAGGAAGGGGGGGGGGAGAA G G A G A G G G G GCC $C$ G G G G G G G GAGAGGGCCGGGGGGAAGACAAA A A G G G G A A A A G G G G A A A A G A A G G G C CA $A$ A A A A A G G A G G A G G G G GAAGGAAGAAGGAAGAGGCGCCAAGGGAAAGGAACCGAAAAA A A A G A G G G GA G A C C G A GAGGGGAAGGAACAAAGGGAGAAC G G G GAACCGGGGTTAAAGAAAGAAAAGGGGGGAAAGGGAGEAGG A GAGGAAGCGAAGACCAAGGAAAAAAAAGGAAACCCGAACAA
 A A A A G GCCGGGGGGGGGGAGAAGGAGCGGGAGACGGGGAAGA G G GAAAGGAAAGGAATGGAGCAGAAAGGAAGGGGGGCABGCC CAAACCAAAAGGAAAAAAACAAGGAAGGAGGGAGGGGGGGGG ACAAGGAAGGAAGAAGAAGGGGGAGAAAGGAAGGGAAGGAAA G GAAGGCCAAGGCCCCGGGGAGGGAAAAGGAAAAAAGAAACC A A A A A A A G A GCA $\mathrm{A} A \mathrm{~A} A A A G G G A G A G G G A A A G G A A A A A A A G G C C$ C A G G G G G A G A G G G G A A $\mathcal{A} G G G A G G G G G A C A G A A A A G G G G G G G G$ A A G G G G A A C C T T G GACCCGGAACCAACAGACAAAAAAATA G G GAAGGAAAAGAAGAGAAGGGGGGGAAAAGGGGCCGGCGAGGG CAGACCGGAGGGAGGGAAGGAAAAAAACAAAAAAGACCGGAG G G G G G G G G A G G GA G A A T T G A A G A A A GAGGAAGGAGAACAAAA CA $\operatorname{CA} A \mathrm{G}$ GAAAGAACAAAAAGGACGCCCGGAAGGAAAAGGAAAG CCGGGGAAAAAAAAAACCGGGAAGCCCCAAGAGGAAAAAAGA G G G A A A A A C A G G G A A A CA $\mathcal{A} G G A G G G A A A A A A A A A A A A A G G G A$ ACAGGGCCGACCAAAAGGCCGAAGGGACAGGGAGAACAAGCA A A A G G A G G A A A GAC GAA A G GAGAACCCCCCAGCCCCCCAGCA A G A A C A A A G G T TAA A G G GCCGGAAGGAGGAAAAACAA GAGAA C A A A A A G A A G G A A G A G A TAGAAGAGGCCAAAGAGAA GA G GAA A A G G G G G G A A A A A A A G GAGGAGAGACAAGGAAAAA GAGAGAA CAGAAAAAAAGGGGAAAAAACCAGAAAGGGAAAAAAGAGAAG GAAGAAGAAAAAAAAAGGAAAAAAGGAAAAAAAAG GAAAAAA A A G G A A G G G A A A A $\mathcal{A} A G G G G G G A G G A A G G A C G A G G G G G G A A G G$ C CAGAAGGAACCCCGGAGAAGGAAGAAACCAGGGAAAAAGAA G G G GAA A G CC G G G G A A A G GAGGGAAAAAGGGGAAAAAA G A A CA A AAAGCCCCGGAAGGGGCCAGGAAGCCGGAAAAGGGGCCGGGG $C C G G A A A A G G A A G G A A C C G G G G A A A A A A C C G G C C G G G G A A A A$ AACCGGGGGGGGAAAAGGGGAAAAGGCCAAGGAAGGAAAAAA AAAACCAAGGGGCCGGAAGGAAAAAAAAGGAAGGAAGBAABG
 G G G G G G A A G G A A A A G G G G G GAAAAAAAG GAAAAAA A A A A A G G G G


G GCCGGAAGGAAAAGGAAAAAAAATTAAAACCAAAAAAAAAA A ACCAAAAAACCAAAACCAAGGGGGGCCAAGGCCTTCAAAGG A A G G A A A A A A G GC C G G G GCCGGGGAAGGAAAAAAAA G G G G T T T G G G GAAAAAACCGGAACCGGAAGGCCAAGGAAGGGGGGGGGG G GCCTTGGGGAAAACCGGGGAAGGGGGGAAAAGGGGGAAAAA AAAA A $A \operatorname{Ag} \operatorname{Ag} \operatorname{GA} A A A A A A A A G G A A C C A A A A G G G G G G G G A A G G C C$ A ACCAAGGGGGGAAGGGGAAGGGGGGAAGGAAAAGGGGAGAA AACCAAAAAAGGCCGGAAGGAAAAAAGGAACCGGAAAAGGAA C C G G A A G G A A C C G G G G A A G G G G A A A A A A A A G GAAC CAA G G A A AACCAATTGGGGGGAAGGAAAAAAGGCCAAAAAAAAAAAAAA G G G G G G A A A A C C C C T TC C G G G GAAGGTTAACCCCAAAAAAC C A A A A G G G G G G G GAAAAAAAAACCAAGGAAGGGGAGAACAAGAA G GAAGAGACCAGCACAGGGAAGAAAAAAGGAGAAAAAGGGGG A GAGGGGAGGGAAGGAAGAAAGGAGAGGGGAGAAGAGGAAAAG GAAAGGAGGGGGGGAAAGGAAGGGGGGGAAGGGACAGAGGGG A GAACAAAAGAGGGAGGGGGAAAAAAAAGGGGGGGGGGAGAT G G A A A T G GAGGGAAGGAAAAAAGAGAAGCCCAAAAGAGCCAA GAGGAACCAGCAGATTAAGAAAATTACCGGAAAAGGAGAAGG A G G A G A G G G G A A G G A G T A A CAAA A A C G GAACCGGGAAA G GA A G G A A G A A A GAGGAAACGAAAAACCAAGAAAACBAAGGGAGGG GGAACCAGCAAACCAAGGCCAAAAAAAAGGGGAGGGGGCCCG G G G GCGGGGGAAGGCCAAGGGGAAGGGGAACAAAGGGGAAGG G G A A G G G G A A A A A A A G A A G GAACC GAAGAGCACAAGTTCCAG C C GACCGAAAAGAAAAGGGAAAGGGGAAAAAAAAACAGAGGG G G A A G G G G G G A GCAAA A A GAAAAAAAGAAGGAGCAAAGAATAA $C \subset G G C C A A A G A A A A G A A G A A G G G A A A G G A A A A G G A A G A G A A A$ A GCCAAGGAAGGGGGGGCCAAGAAGACCGGAGGGAACCGGGG A GAACCGGGAAGAAAAGGGGGGAAAAGGAAGGGGAAGAAA G G $A$ A A A A A GA G GAGGTAAAAAGAGGAACCGGACAAGGGGCCBGAT AAAGGGACAGAGGACCGGAACAGAGGCACAAACCAAGGTTTT GAAAAAGGCAGACAGGGAAGGGAGCACAGAAAGAAGAGAGAG G G G GAAAAGAGGAAAAAAACAAAAGGGGGGAAGGCCGAAAAA A G G G G A A A C C G GAAAAC A A A A G G G G G GAAAGGAA $A \operatorname{A} G G G G G G A A$ G G G G A C A A G G T TGGAAAAAAAACCAAAGAGGGAAAGGAAACA A ACAAAAGAGGGAGAAAAGGAATACCAACCGGTTAGAAAGAA G G G A A A A A G G A A C C A A G A G G G G G G A A A A A A A GAAAAA A G G A A A G G GAGGACCGGAGAAAGGGGGACACACGACATTGGAAGAAA AAAGCAGAGGAAAGAGAACCGGAGAGGGAAAACAAGGAAAAG A GCACAGGGAGGAAAGAAAACCCCGGGGGGGGAAGGAACAAA AAGGAAACAAGAAGCACCAAAACCAGGGCCGGCCCAAACAGB $A G C C G G A G A G A A A A C C G G A G C C G G G G G G A A A G G G G A G G A A G G$ C G G A A G G G G A G G A G A C A G G A A A G C G G TA G A A C A G C C G G G G G G G GAA A GAAA $A \operatorname{AGGGGAGAGAAAAGGAAAAAAGAAAAACAAGGG}$ C C A A G A A A A C A GAGGAGGGGAGGGGGAAAGCCAGAGCGCA GA GAGGACGAAAAAGGCCGAGGGCAGGACGAGGGGGGGAAAGAA G GAGAGAGCCGGGGAGAAAGAAAAAACCAAGAGGGGCCGGGG A A G G A A A A ATGAAAAACCGGGAGAAAAAAAGGAAAAGAAAAA A A GAAAAACAAACAAAAGAAGGAAAAGGAACCCCAAGGAACC AAACAAGGAACAACAGAAAAACGGAAGAGAGGCCCAGAAGAC $A G C A G A A A G G A C A G C C A A A A G G C C G G A A G G A G G A A A A G A G G A$ A GAGGAAGAAAAGGGGAAAAAAAAAAGAACAAGGAAGGCCGG $G G C C A G A G G G A G A G A A A G C C G G G G A A G G A A C C A A A A A A A A A A$ A A G A G A A A A G G GA $A \operatorname{CC} C G G A A A A C C G G A A G G G G G A A T A A A A A A$ $C C C C G G C C A G G A G G G A A C A A A A G G A A A A A G G A A A A A A A G A G A$ A G G G A T A A GAAAAGGAGAGGGGAAAAGGGGAAGGCCAGAAGA G G G G A G G G A A C C G G GAACAGCCGGTAGGGAGGCCAGAAGAAA A A G G G A G G G G A G A G G G A G G A A A G GACA A A GAAA A G G GAAA A G GAAAGGGAAAAAAAGAAAGAAGGGGGAAAACCATAAAACCGG AAAAAAAAAAGGGGGGCCCCAGATGGAAAAAAAAGGGGCCAA

A A G G G G G G G GCGGCAGAAAGGGGGGGGGGAGGAAAAGAAATT A A GAGGGAGAGGAAAGAAGGGGGGAAGGAATTGGGGA
A A A G G A A GACCGGAGGAAAAGGGGGGGGAACAGAGAACCBA $A G C C A A A G C C G A C C A A G G G G A A G G A G A A C A C A G A G G G G G A G G$ G GAA A G GAGAACAGAGGAGGGGAAGGAAAATAAGAAGAAAGA GGACAAAGAAAAAAAGCCAAAGACAAAAAGCCGGAAAATTGG G G G G A A G G CAA A G GACGAAACCAAGGAGAAGGAGAACAAAT T AAAACCAGGAGGAAAAGGAACAGAAAGAGGGGGGGGGGCCGG G G G A G A G G G A A A A G C A G G G A A A A A G G G G G G A A A A G G A A G G G A $A G C C C A A G A G G G A A A A C C G G A G A C A G G A A G A G G A G G G G G G G G$ GACAGGAAAAGGAAGGAAGGGAGGACGGGGAGTTCAAAAAGG $A G G G C G A A G G G G G G G G A A C G C C A A G G G G A G G G A A G A A A A G A A$ G GAGCCGGAAGGAGGGAGAGCCAAAGAGGGAAGAGGGGAGAG GGCGAACAAGGGAAGGAAGGAAAAGAACAGAAAAGAAACABG AAGGAACCGGGGCCAGGGCAAAGGGGAAGGGGAAAGAAAAAA G G GAGGAACAAGGGCCGGGGCAAGGGAAGGGGGGGAAACCCC CAAAAAGAAGAGACAAAGAAAAAGGGAAAAAGTTCAAGCCGG G G G G A A G G A C G G A A G G G G G A G G G G A A A A A GAGAA A A A G A GAC G GAAGGGGAAAAAAGGGAGAGAGGAGACAAAAAAATGGAGAA A A G G A A G G A A G G G G A A A A A G A A G G G G G G C G A G C C T T G A G G G G G G G GAGAAGGGAGACCGGAGGGCCGGAACCAGGAGAGAAAAA AAGAGGCCGAGAACAAGAAAAAGGAATTACCAGGAACAAAAC A A A G A G G A A C A G G G G G G GCCAAAGAAGGGGCAAA GAGAAAAC
 GGCCCCAAAAGGAGGAAAAGAGAACAAAAAAAGGBACAGAGG AACAGGGAAAGGAGGACCAAGGAAAGGGAGAGGAGAAGGGGA AAAAAAGGAGAAGGGAACGAGGGACCGGAGGGCCAGCCAGGG GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACAAAAG C CAAA $A \operatorname{GCA} A A A G G A A A A A G C C G A G A G G A A G A C C A G G B A A A A$ A A GAA A G G G GCAG G GAGAGGAAGGGGGAGAGGGGAAGGAGA G GAGGAAGGCCGACCGGAAGGGGGGAAACGAAGGGBAGGGGGC A GAGAAGGGGAACAAGGAGAGAAAAAGGAAAACCCCCCGGGG
 AAAAGGAGGAGAAGAGAAAAAGAAGAGGGGCAGAGAABAGAG $A G C C A A G G A A G G G G A G G A A A G G G G A G G A G G G A G G A G G A A A A A$ G G G G G GAAAAAAAAAACCCCAAGGGGGGAAAAAGCCCAAAAA
 ACGGGAGGGAGAAGACAAGAGAGGAGCCGGAAAAAAGGAAGA G G A A C C A G G G A G A A GAGAGGAGCCGGAAGGACAA GAA GAGAA GAGAGAGGCCAGAGGGGAGGAGAGAGGGACGGGGAAAAAAGB $A G G G A G G G G G A A G G G G G G A A G A G A A A A A G A A A A G G G G G C C A A$ A A A G A A G G GAAGCGGAAAACGGAAAAGGAAAGACGAGACAAA AGAGGACCGGCCAAGGGAGAGGACAGAAAGACAGAAGGAAGA C C G G G GA G A G G A G A A A G G T T G G A A GAGGAAGAGGCC GA G GAA AAAGGGCCCCAGGGAAAGAAAGAGGGCAAGGACCAACAAAGG
 A GCAAAAAGGGAAAGGGGGGAAAAGGGGAAAGGCGGGGAGAG
 A A GAGGAGGGAAGGGAGGAAGGAAGAGGGAGACAAAGAAAAG G GAGGGAGAAAAAAAAAAGGGGAAGGGGGGAGAGCCGGCCCC
 GAAAGGGGAAGAAGCCAAAAGGAAAAAAAAAAAAAAAACCGG A A G G A A $\mathcal{A} G G G G G G G A G G G G G G A G G A G G G A A A A C C A G G G C A A A$ AACCAAGGAAGGAAAAGGGGAAAAAACCAAGGCCAAAAAAAA ACAAAAAACAAAGAGGAAGAGGGGGGAAAAGGAAAAAAGGGG GAAACCAAAAAAGGCCGGCCAGAAAAAAGGAAAAAAAAGGAA G G G G G GCCAAGGAAAAGAGACAAAGAAAGGGGGAAAAAAGCC
 $A G G G C C G G G G A A A A A G G G G G A A A G A A C A G G A A A G G G G G A A A A$

G G G GAAAAAAAGGGAAAAAAAAAAAGAAAGAAGAAGGGGGAC $G G A G A G C C G G A A G G A A A C G A G A G G A A C C A A A A A A G G G G A G A A$ G G G G G A C A A A C C C C G G GAA $A \operatorname{GGGGGGAGAAACCTTAAAGCCAA}$ G G G G G GACAAGGAAGAAAGGGAGGAAGGGGAAAAAA GAAAAGG AAAAGGGGGGAAGGCCGGAACCGGGGGGGGGGGGAAGGGGGG A ATTGGAGAAAAAACCAAAGGGAAACAAAAGAACAAAAAAGA A A A A A A A A A GA A A A GAA GAGGAAC GAGAAAAGAA GAAAAA GA $G G A G A G G G G G G A G G A A A A A A A A G G C G C A G G A G G A G G G G A A A A$ G G G G T T G G A A A A G A A G A A A A A G G G A G G A T TAAACAACCCCC C GAAAGGAGAGGGAGAGGGCCAAAGAGGGGGAAAGGCCCAGAAA ACAGAAGGAGGAGGAAGAGGAAGAGGGGGGAGGGGGAAAAGG G G A A G A A ACC G GAAAAGGAAAACCAAAAAGACACGCGACAAG A GAAAGGACAAAAGAGACGGCCGAAACAAGGAGAAGGAAGAA A A A C A GAA A G G GAACCGGGGAAAAAGAAGAAAGGGAAA G G GAA A GAAAGGAAGAGAAAAGAAGAAAAGGCCACGAAGGGAGGGAA G G G GAA $\operatorname{A} G \mathrm{G} G \mathrm{G} G C \subset A G A A A A A G A G C C A A C A G G A A C C G A G G G G$ A G G GAAAAAAGGACGAAAGAAAGAGACAAAAGCAAAAGAAAA
 $G G G A A A A G G G G A G G A A G G G G A G A A G G G G G A G A A A A A G G A A A G$ A A G G G A A GCCAGAGGGGAGGCAAAGGGAGAGGAAGGCAAA G G G GAA A A G G G G G G G G G G A A A A A A T T A A G G C CAA $A \operatorname{AGGGGGGGGG}$ AACCAAAAGGAACCGGGGACAGCCAAGGAGAGGGGGAAAAAA A GAGACAACACCAGAAAGGGCAGGAAAAGGAACCGGAGAGAG $G G C A A A A G G A G G G G A A A A G G A A G G G G G A A G G G G G C C C A B A A G$ $A G C C A G G G G G A G A A G G G G G G A G A G G G G A A G G G A C G A G G A A A A$
 A A G G A A G G G G G G G G G G G G G G T T A A G GAAAAC A A A A GAAA G G G GAAGGGAAGGAAAACCAAAAGGAAAAGGAAAAAAGGAACCTT GAATAGCAAGAAAACAAGGAAAAAAAAGGGAGGGGGAAAAAA A A G GAGAGAGAGGACAGAAAAGAAGGAGCCGGAACCGGGGTT CA $\mathrm{C} G \mathrm{G} G \mathrm{G}$ CAAACCAAAACCAGGGGGAAAACAAGCCGGAAAAAA G G GAGGAAAGGGAAGGCCACAACCGGAAAATTAGAAGGAGAA A A A A G GAA A GAAAGCACAGGGGGAATAACCGACCGGAAACGG
 G G G G A G A G C A A G G G G A A G G G G G A G G A G G G A GA A T G G G G A G G A A G G A A G G G G G A A G G A A A A G A A A A GAAAA A G G GCCCCAAACAA A A G GAACAGGAGGGAAAGGGAAAACAAAGGAACCGGAAAACC C CAAAAGGGGCAAAAAAAAAGGGAGAGCAGAGAGAAAAAGCC $A G C C G G C A A A C C G G G G G G A A A A G G A A A A A A G G G G A A A A G G A A$
 AAGGGAAGAAGGGCGGAAGAAAGGATGAAAAAAACCGGAGAG CAGGGGAAGAGAAAGGCCAGAAAGAAGGAAAGGGGGAAAACC $G C C A C C A G A A G G G G C G A G A A G G A G A G G G A C A A A A G A A A A A G G$ $A G G G A A G G G A A A G G G A A G A A A G A A G G A C A G A G G G A A G E A G G G$ GACCGCCAAGGGAAGAGGAAAAAGAAAAAGGGAGGAAAAA G G A A A G G A G A A A A A G A A G G GAGGGGGGAGGAAACCA GGCCGGGG C C G A A A G GCCGGGAAGAAGAAAACAAGGAGAAAAAA GAGGAG T T G G G A A A A A A A A A A CAAAAAC AAAAGGAGGA GACA G G G G G G G $C C G A G G A G A A G G G A G G A T A C C C G A A A G G G G G G A A G G G G A G G A$ CAGAAACACCAACCGGAGAACCAAGGGGAGAAGGGGAGA GAA C C C C A A G G A A G GCA GAATAGGGGGAGGGAAAAGAAAGGGGGA GAAAGAAACCGAAAAAGGAGGGAAGACAGGGGGGGAGAAAAA A A A ACCAAAGACAACAAAGGGGCCAGGGCCAAGGACBAGGAA C CAA $A \operatorname{GAGAAGGCCAAAAAAAAAAAGAAGAGGGAAGAACAAA}$ A A A C C GAA $A \operatorname{G} G \mathrm{G} A A A G A G A C G G G G G G G G A A A A T T A A G G G G G G$ A A A A G GAA $A \operatorname{GGGGGGAAAAGGAACCAAAAGGGGAAGGCCBAGG}$ G G G G A A G G A G A G G A A A A A A A G GCCTTAAGAAAAAAAGAAA G G GAAAAAGAGAAGAACCCCGAGAACCAAAAGGAGGGGGGAGAAG AAAGAGGGGAAAAAGAAAGAGGAACCAGAAGGGGGGGGAGAG

G GAAACGAAAGGGGCCGAGGCCGAGAACGGCCCCAAGAAAGG A A A G G G T A A C G G T T C C G G C C A A G G G G G G A A $\mathcal{A} A A G G G G$
A G G A A A A A A G A A A C C G G G G G G G G G A G G A G A A G G G G A G C A G G GAAGGAAAAGAACGGGGGAAGGAAGAAGAAAAGGAAAGAAGA AA $A$ A $G$ GAAA $A \operatorname{A} G A A C A G A G A G A A G A G G G G A C C G A A G G A A G G G$ A GCCGAAAAAGGCAGGGGGGAGCCCAGGAAGAGGAAACAAAA A A G G G A T T G A A A G GAA $A \operatorname{GGGGAAAAGAGGCCAGAGAGCAAGAA}$
 A AT T G G GAA $A \operatorname{G} G A A A A A A A A G A G A A G G A G A G A G A C G A A G A C B A$ GGAGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGGAAAA GAACGAAAGGGAAAGGGGAGAAGGGGGGAAGGGGGGCCAGAA G GCAAGGAAGAAGGGGAAGGGGCAAGAAAACCCCGGAAAGAA $A G G A A G A G G G A A A G G G A A A A A A G G G A G G G G G G A A A G G A G G G G$ GGAAGGAAAAGGAAGGAAAGGAGAGGAAAGAAAAGGCAAGGG GAGAAACCAGAAAGAAGGAAGGAAAGGGGGAGAGCCGGGGGG CCAGAAGGAACAAAGAGGGGAAAAGGGGGAAAAAGAGAGAGA $A C A C A C G G A G A G T T G G G A G G A G C A A G A G G A G G A A G G G G G G A C$ G G G G G GCAGGAGAGAGCAAGCCGGAAAAACAAAAAGAGAAGA AAAAGGGAGGAAAGCCGGAAGAGGGGGGGGAGAAGAAAAAAG G GCCCCGGGGCAGGGAAGGAGAGGAACCGGGGAAGAAAAGAG G GAGAGAAAAGGGGGGAGGAAGCCAGAGGGCCGGAGGAGAAG $A C A G A A A G A A C C A G A A T T A A G A G G G G G G C C G G T A A G A A G G G G$ A GAG G A A A A C C C A A G G A A G G A A G G A G G G G G A A A G C C G A G G G G A CAC $\mathrm{A} G \mathrm{G}$ GAAACCGGAAGGGGCCGGGGAAGGGGGGAAAACAAA G G G G G G G GCCAACCGGCCAAGGAGAACCGGGGGGGGGGGGGG $C C C C C C A A A A A A A A G G A A G G G G G G A A G G C C A A A A G G A A A A G G$ G GAAAAGGAACCAAGGAAAAGGAAGGGGGGGGCCAAGGGGGG G G G GAAGGCCGGAAGGAAAAAAGGAAGGAAAAGGAAAACCGG G G G G G G G G A A G G G G A A C C G G G G A A G G A A C C A A G GC C G G G G A A G G G G A A A A G G G GCCAAAAGGAACCGGGGGGGGAAAAGGGGGG GAGGGGGAAAGAAGAAAAAAAAGAAGAGAAAGACGAAGGGGG G G GAAAACGGAAGGACGAAAAAAAACAGAAGAAAGGGGGGAG AAAAAAGGAGAACCAAAAAGGGAGAAAAAAGGAGAGAGGGAG A GAA A GAA $A T G G G G C C G G A A G G G A C C A A G A G G G G C C G A A A A A$ G G A A A A G G G G A A A A A A A A $A G G G G G G G G C C G G G G A A A A G G G G A A$ G G G G G G A A G G A A A A G G A C G G A A G G G G A G CA A G GAACC C G G A G A G G GAACCAAAAGGAAAGGGAAGGAGAGGAAGGAAGGGGGTT A G GAGAAGCAAAAAAAGGGGGAGGAAGGGAGAGGGAAAGAAT G G A A G A A G G G G G G G GAAAGGGGGGAAAGAGGGAAAACAAACC G G G G A G G A G G G A G G G G A GCCAAGGCCAAGAGAGGAGAACAAA AAACGGAGGGGGAAGGAGCAAACAAAAAAGGGAAAGACAAAT C CAA $A \operatorname{GCA} G G A G G A G A A A G A A A G G G G G A G G G A A A C C G G G G G G$ GGGGCACCAAAAACAAAAGGGAAGCCAGCCGGAAAAAGTAAC A GAGAAAGAAAGGAAACCGGGGAAAAGGCCCCAAGGGAGGAC GAGAGGAACAGGAGAGGGAGGGAAAGACCCAAAAAAGGGGAG $C C G G A A A A A A G G A A G A A A G G G G G G C C A A G G A G A G G G G A G G G A$ TAGAAAAACAAACGGGGAGACAGGAAGACCGGAAAAGGGGGG AAAGAAGACCGAAACCAAGAACAAAAAAGGGGGGGGGGAAGA G G G G G GAACCAAGGGGAAAAAAAAAACCAAGGGGGGGGAAAAA GGCCAGCAAAGGGAGAGAAAGGACGGGGAAAAAAGAAACACA $A A G G A A G G G A G G G G A A C C G G A A G G A G G G A A G G G G G A C C A G G G$ ACGAGGGAGACCACGACCCCAAAAGGGGAAAACCAAAGAAAA A A A A A A CAGGGAGGGGAACCCCGAAAGGAGGGAGAAAAAAGB G GAAGGGGGGGGAGAAAAATGGGGGGAAAAAAAAAGAAAACC GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGAGCCACAAAA $C C G G A A G G A A A A G G G G A A A G A G C G G G G G A A A A A A C A G A C C B G$ G G A A A A A G G G G A A G G G A A G G G G G G A G G G C C A G A A G A G A G G A A G G G G G G G G G G A A A A A G G G G G A A A A C C G G G GCC G G A A C C A A A A $A C G A G G A C A C G G A G G A A A G A G G G G A G G A A G G C G G G G A A A G G G$

GAAGAAGGAGGGCCAGAGGGAAGAGGAACCAAGGGGCCGGGG A GCCAACAAAGGGGCCAAGGGGAATTAAACAACAAAABCAGG GAAAGGCGCCAGGACCCCCCAAAAAAGGAGAGGGAAAAACAC C CAACAAAGGAAGAGGAAGGGGAAAAGGGGGGGAAACAAAAA CAGGCCAGAAGAACAGAGACAAGGAAGGCCGGAAAAGAAAAG GAGGCCGGAACCGGGGAAAACCGGGGGGGCGGAAAACAAAAA A A A A A A G G G GAGGGGAGGAAAAGGAAGGGAAAGGATCAAAAA GGGGCCAACCAGGAGGAAAGAAGGGGAAAAAGGGAAGGAGAC G G A A A A A A A A A A G A G G A A A A A G C C A G A G G A T T A A G G A A G G C C GGGGAAGGCCAAGGGGCCAAAAGGAAGAAAAAAAGGACAAAA G GAAAACCAGAAAAAGGGGAAAAAGGGGACGGGGAGGGCCGG A A A A A A A A G G A G G G G G G G A A A A A A A A G GAA A G G GA G G A GA G A G G G GAAAGACAAAACCAACCAAACCCGGCCGAAGAAAAGAGG GGGAAAGGAACCCCAAAGAAGGAGAACAAAGGGGGAAAAGGAG G G A A T TAAAAAAAAGAAAACCGGGGGAAGAGCCCCGAAAAA AAAAAACCGGGGGGGAGAGGAGCCGGGGAACCAGGAACAAGA
 AACCGGGGAAAAAAAAGGAAGGAAGAAACCGGAAAAGGCCAA CAAGCCAACCGGAAAGGGAGGGAGGGCCGAAACAGAGAATAG G GCAAAGGGGAGAAAAGAGAGAAGCAAAAGAAAAAAGACCAG AGGGCAATGGAGAAAGAGACAACCCCGGAGCCAGAAGGTAGG G GAA A A G G G GCCAA $\mathcal{A} G A G A A G A G A G G A G A A A A A G G G G A G A A A$ G G G GAAACAAAGGAGGAAAAGGAACGAAAAAAAGAAAGAGAA AA GAGGAAAAAAAGAACCAAGAAACCAAGGGGAAGAACAAGB GAAAAGAGGGAGAGACGGGGGGGGAAAGAAGGGGAACAAAGA G G G GAA $A \operatorname{GAA} A A C A G A A G G G G G A G A G A A A C A G A A A G A T A A G G$ G G A A A A A G G G G G G GAA $A \operatorname{AGGGAACCAACCGGAAAGAGACACAG}$ G G G G A G G A A A A C G G G G A G G GAA A GAGACAGAAAAA AAAAA A A A A G G G A G G G G A A G G A G G G G G G G A A G G G G A A A A C A A G A A A A G G A GAAGGGGAAGGAAAAGGAGGGGAAAAAAAAAAAGGAAAAAA
 TAGGGGGGGGAACCAGAAGGCCGAGGAAAAAAGGGGAAACGG G G G G G G G G G A A A G G A A G GAAAACGAACCAAAAGAAAAAACAC
 G GAA A GAA $A \operatorname{GA} A G G G A G C A A A G A A A G A A G A G A A A A A G G G C C G G$ A A G A A A G A A G G A C C A A G G A A G G A A G G G G G A A A GA G G G G A A A $G$
 G GAGCAGGAAGGAAAAGAGGGGCCACGAAAACAAAAGGGAGG GACCGGAACCGGAACCGGGGGGAAAGAGCCAAAAAGAGCCAG A GAGAACCCAAAGGAAAAAGAAGGGGAACAAAGGGGAAGGGG A A A A A A T T G G G G G GAAAA $A \operatorname{A} G A A G G A A A A G G G G C A G A A G A A G G$ A A G G G G C A G A A G G G G G A A G G A G G G A G G A G G A A A A G G A G G A A $G$ A A G G GA A A A A C C GAAAAAGGGGGGCCGGAAGGGGGAGAAGAG G G G G A A A G G GAAAACCAGGGGAAAGGGGGGGGAGGAAAGAAA G G GAGGCCAAGGGGAACAAAGGAGGGAAGGGAAGGGGGAAAA A GAGAAACGGAAAAGAGGAGAAGGGGGGGGCAGAAAGACCAG
 AAAAAACCGGGAGACCCCGGAACCGGGGAAGAGGGGCAAGAA GAGGCCAGAACAAGAGGGGAGGGGCCAAGAGAGAGAAAAGAA A A C A A A G G G A G GA $A$ GAAAAGGGGGGGGAAAAAAAGCCAAAACC T T G G G G A A GAGAAAGGCCGGCCAAAAAGCCCAAAACAAAGCC G G G G G G GACCAGGAGGAAGGAAAGAATACCAAGGCCCAAGAA G G G G C C G G G G G G A A G G G G A G G A C A GAA A A A $A \operatorname{GGGGA} G A G A A A G$ C CAA $A \operatorname{GAAAACGAAGAGGCAAAGAAAAAAGAAAAGAAAGAAA}$ $C \subset G G G G A A A G G A G A C C G G G A G G G G A G C A C G G A G A G G A A A G A A$ AAAAGGGGGGGGAAAACAAAGAGGGAAAAAAGCAGAAAAGGA GA G G A A G A A A A A G G A G G G G A A G C C A A A A A A A A A A G G G G A A G G C C G GCAGACCGAAGGGGAAGGAAGAGAGAAATAGGGCAAACA GACCAAGACAGAAAAAAAAAAAAACCGAAGAGGAGGAAAAGA

GACCAAGGAAGGGGAGGGGGGGCCCCGGCCGGAAAAGAAAGA AAACGAACCACCAAAGGGCCCCAAAGCAGGGGACAGA
GAAGGGGAGACCAGGGGGAGGAAAAGGGGAGGGCCAGGGAG A GA A G G G GAGAAGGGGCCGGCCGGAGGGGAAGGAAGAAAAGG $A C C A C A G A G A G G G G G G A C C A G G A G C C A G A G A A G G A A G G A A G A$ GAGAGGAAGAGCAGAAAGGGAGACAAAGAGAAGGAAAACCAC A A A A G A A G A A A G G G G G G G A A G G G G G GACGGAGAGCA GAA GAA C CAGGGCCGGGGAAAAAAGGGGCCGGGGGGGGGGCCGGAAGA A A G G G GAA A GCAAAAAGAGGGCAGAACCAAGGAAAGGAAACC AACCAAAGCAAAGGAAAAGGGGGGGGGGAAGGAACAAAAACC ACAAGAAGGCGGCCGGGGCCGGGACAGAAAAAGAGGGAAGAG GAGGCCAAAAGGAAAGGAAAGGGGGGGGCGAAGAAAA GAAAAA A A G G G A G G G A A A A T A A A A A A GAGGCCGAAGAGAGCAAACA G G A A A C G G A G A G A A A A G G A A C GGGGGAAAACCAAAACCAAAACC A A G G G GAAAAAAAAAAGGAAAAGGAAGGGGAAAAGGAAAAAA AA G GAAAAGGAACCAAAAGGGGAAGGGGAAAAGGGGAAAAAA G G G GCCGGGGAAAAAAGGGGGGAAAAAAAACCAAGAAAAAAA $A C G C A C G G A A A A G G A G A G A A A C A G A G G A C C G A A A A A A A A A G A$ A GAA $A \operatorname{GA} G G A A G A A G G C C G G C A A G G G A G A G A G G G G G G G A A G A$ A A A A A A A G GAGGAAGGGAGGAGGGAGGAGGGAAAAGCAGCAA G GTTGGAAAAAAGGAACCAAAAAAGGGGGGGAGGAGGGGAGG

 A A G G G GCCGGAAGAGGAACCAAGGGGAAAGCCGGCCAAGGAAA G G G G A A G G G G G A A C C A G G A G G G G G G G A A A A A A A A G G G A A G A A
 G G G G GAAAGAAACCAAACGAAAGGCCGGAAAAAGGGGGAAAA G G A G G G G G A A G G A G G G G G G G A A G G G G G A A G C C A A G G G G A A G G G G G G G G G A G G A G G G G G A A A A G G G G A A A A G GCC G A G A C C A A G G G G GAAGATAAAACCGGGAGAAAGGAGAGCCGAAGGAAAAAAA A G G GCACC G GAGAACACAGGCAAAAAAAGGAAAACCAGAGCA GCGGCCGGGGAAGGAGGGAGCCGGAAGGAAGGCCCCAAAACC ACAGGGGGGAGGAAGGAAGGAAGAAAAAAGAAAACCGGCCAC A G G A C C A A A G A C C C C G G G G G T T A A C C A G G G A A G G G G G G A C A A G GAGGAAGAGGGAACCGAGGGGAGAAGGAAAAAACCGGAGAG GAGGCCAAGGGGGGCCGGAAAGGGACGGCAGAACGAAAAAAA $C \subset A G C C A A C C A A C C A G G A T A A A G G A C G G A A G A G A A G G G C G G G$ G G G G G G G G A T A A A C A A A A A G G G G G G G G G G G G G G G G A A A G G T T G GAGAGGGGAAGGGGGAGAGGAAAAGAACAGAGGAAGAAACC


 A A GAAGGGAATTAACCGGCCGGAAGGAACCGGGGGGTTAAGG C C C C A A A A GAAAGGGGAAGGAAAAGAGGAGAAGGAAAAAAAA G G G G A A A G G G G G C C G G G G A G A A G G A G G G G G G G A A G A G A A C G G A A G G G GAAAACCGGAAAGGGCCGGAGGGGGAGAAAAAAAAAT
 GACCGGCAGGAGACAAGGAACCGGGGAAGGAAGGCCGGAGAG G G GAGAAAAGCCCCGGAGCCAAAGGGGAGGGAGGCAAGAACC C C A A G G G A G G G A C C A G G G G G A A G G A A G G G G C A A G A A G G G G G G A A A A G GAAGGAACCGACCGGGGGGAGAAAAAGCAAACAAAAC C CAGAAAAGAAAGGGGGGAAGAGAGGAAGGAAAAAAGGAAAA A A A A A A A G G A A A A A A $\mathcal{A} A G G G A A G A A G G G G G G G G G A G C C A A G G$ G G G G G GAAA A G GAGAGGGGGGGCCGGGGAGGGCCGGCCAAAA
 $A C A G G A A A G G A A A A G G C C G G A A G A C C A G A G C C G G A A G G A A A G$ G G G G A A A A A A A G G GAACCGAAAAAAAAACCGAGGCCGGACAA A A G G G G A A A A A A A A A GACGGGGAAAAAAAGGGGGGGAAACAA AAAAGAGGGAAAGGAGCCTAAAGAAGGGGGGAAGGACAGAAA

G G G GAAGGAAAAAACAGACCAAAAGAGGAAGGAAAAGGCACC $C \subset G A A G G G G G G G A A C C G G A A A A A A G G G G A A A A A C A G A B A A G G$

 G G G GAACCAAAACCAAGAAAAAAAACCCGGCCAAGGAAAGAA
 AAAGGACAGAAAAGAAAAGAAGACAACGAGCGGGGAAACAAG A GAAGAAACAGGAGTAAAGAGAAAATTACCAACCGGCCAA G G G G A G A A A C A G A A G A A A A A A GA G A A C GGGGGAAGGGGAAC CT T AAGAAAGGAAGAGAGGAAGGAAAAGGGGAAGGACGGAGAAAG G G G GCCAGAAAAAGAGGGCCGGGAGGGGGGGGAAAGAAAGAA GAAGAAAGGGCAGGAAGGAGAAGGAAGGGGAAGAGAAAAAAG G GAA A A A A A A A G G G G G G A A G GAA A A A GAGAAAGGAGCC GACA GAAGAAACGAGGAGAAGGGGGGGGAAAAAAAAAAGGGGAAAAG G G GAA A G G G GCCAAAGCCGGAAAGGACAGGGGAAAAGAGAAA $C C G G C A A A A A A G G A G A G A A G G A A G A G A G G G A A A A G G G G G G G G$ G G A A A A A A A A G G G GAAAAGGCCAAGGCCGGCAAAGGCAACAG
 $G G A G A T A G G G A A A A G G G G A A A A C C A A A A G G G G A A A A C C A G A G$
 G G G GAAAAGGAAAACCGGGGAAAAAAAAGGGGCCGGGGAAAA G GAAAACCAAGGAAGGAAGGAAAAGGCCAAGGAAGGAACAAA G G A A A A G G G G G G G G G G G G G G A A A A C C G G G G G G A A G G G G A A A A

 A A G G G G A A A A A A A A C CAAGGGGAAAAAAAAGGCCCCTTAAG G AACCAAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAAGBAAAA A A A A A A A A G G G G G G G G A A A A A A A A G GAAGGAAAA G GAATTC C C C G G G GAAAACCCCGGCCGGGGGGAACCGGAAAAAAGGAGAA G GAAGGGGGGCCCCGGAAAAGGAAAAAAAAGGGGGAAAGGGG A A G G G G A A A A A A $\mathcal{A} G G G G G A A A A G G G G G G A A G G G G C C A A G G G G$ G G G GCCAAGGAAGGAAGGAAGGGGAAGGAAGGAACCGAAAGG A A G GAAAACCAAGGAAGGAAGGGGCCAACCAAGGGGGGAGAA G G A A G G A A A A A A G G G GCCAAAAAAGGGGAACCGGGGGGAAGAG T TAACCAAAAAAGGAAAAGGCAGAAAGGCCGGAAAGGGCCAG G G G A G A A GCCCCAAGGAAGGGACCGGACAAAAGBACAAACAB G GAAAGAGCCGAAGGAGGGGGGGACCGGGGGGAAGGGGAAAA G G G G G A GAAAGACCGGAACCGGGGGGGAGAGGCAGGAGAGAA G GCCAA $C$ G $\operatorname{CA} A A A A A A G G A A G G G G G G G G A G A G A A G B A G G G G G G G$ G G G A T T A A G G A A C C G G G A A G A C A G A GACAGGGGG GAAA G G G G AAAAAGACGGAAAAGGACGGAAGGGAGAAACCAAGGAAACAA GAAGGGAGGGAAGGGGGAGGCCGGCCGGGAGGGGAGAAAAAG CAGGAACAAAAACCAGAGAGAAGGCCAAAGAGAGGAGGGGGG A A A A A A A G G G G A C G G G G A A G G G A G G G G G A G G G A A A G G A G G A A
 $G G C A C G A G G A A A C C G A A A G G A G G A A A G G G G A A G G G A G A G G G G$ A G G A G A G G A GCCAAAACAGGGGAAAGAAGCAAA AAAGGGGAA A A G G GAGGAAGGGGCACAAACAAGAAGAGGAAAAGGAAGGAA G GAAAGCCGAGAAGAATTACAGCCAACAAAGGAAAACCGGGA A G A A A C G A TA $A \operatorname{GGGGGGGAAAGAGAGGACGAGGGGAAAAGGGA}$ G G G G G A A A G G A A A A A A A A GAGAGAAGGGAAGGGGGGGAGACA G G G G G GAGGGAAAAGGACGAGGGGGAAAAAAGAAAAAAAGAC $A G A G A A G G C A A A G G G G G G A G G G A A A A A A G G G G C G G A G G G G G G$ A G GAGGGGAAGAGGGGCCAGACAAAGGAAGACGGGCAAAGAG $A G G A G G A G G A G G G G A A A A A A A A G G A G G A G A A G A G G G A A A G G G$ G G G G G GAC G G A G G A A A G GA GA G G G CA C C G G G G A A A G G G G G G G G G G GAGCCGAACAGAAAACAAGAGGCGGGGCAGGAGAGAAAG GAGGGGAAGAGGACACAAAAAAGAAAGAACGAAGGGGAAC G G $A$ GACGAAAAGGGGAGGAAAAGACAACAGGGGCAAAAAGGGGGA

G GAGAACCAAAAGGGGGGGCGCCGACAGAAGGAAGACAGAA AACAGGGGAAGGAGACAAAAAAGGGGAGAAAGAGAGA
G G G A A G G G G G G A G A C G G G G A A G G G GAGAGA A A GA G GA GA G G A GAGGAGGAAGGGAGAAGATAAAAAGGGAGAGAAAAAAAGGG A GAGGAGGAAGACCACGAGGGGGGAGGAACGGGGGGGAAAGA A GAACCGGGGAAAGAAGAGAGGGAGGGGGACCGGAACCAGAA GAAGGAGGAAGGAACCGGACAGGAGGCAAAAAGAGAAGAAAA GAGGGGAAAGGAGGGGAAACAAAAGGACAAAAAGGGAAAGAG CACCGAAAAACAGGAGAGGGAAAAAAGGGAAGAGGGGGAAGG G GAAAAGGAAGGGGAGGAGGAGGAAAAGAAAAACAGCAGAAG
 A A G G A A A A GAGAAGAAGACCAAGGAGGGAAAAAAACAAGGCC C C G G A A A A G G A A G G G G A A G GAAA A G A G G G G G G A A G G A A G G C A GAGGGAAAAATTGAGGGGAAGGATGAGGAGCCGGAGGGCCGG AAAAAGGGAAGGGGGGAGGAGAGAAAGGAAGGAAAACCGGGG G G G GAA $A \operatorname{GGGGGGGAAAAAAAGAAAGAAGGAAGGAAAACAAA}$ $A C G G A A A C A A G G A G A G A G A A C C A A A A G G A A A A G G G G C C G G G G$ G G A A A A G A G G A A G A A A G GAAAAAGGGAGAGAACC G G T TAAA G G G G G GAGAAAAGGCACCGACCAAGGAGGAAGGGGGAAAAGAGG ACGGCCGAAGGAAGAAGGAAGGAGAATAGGGGTTAAAAAAGG G G G G G G A A A A A A A C G GAAAGAAAAAAGGGGGGAACACAAAGG AAAAGGAAAAGGAACAAGGAGGGACACCAGGGAACACAGAGAA A A A A GCGGGAAAGAAAAAGGGGGGGGGAAAAAGGCCGAAGAA A GAG $\mathrm{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G}$ GAAGAAGGCCCCGAATAGGAGGAAAGAGAAGA GAAACAGGAACCGGGAGAGGAAAAAGCCAAGGAAAAGACCAC GAGAGAAGAGAGGGCAGGGGAAAGGAAAGGAAAAAAGGAGGA A G G GAACCGGGGGGAGGGGGGAAAGGGACAGAGGAGCAAAAA G GAAAGGGAAGGCAAAGGAGGAAAAGGGCCGGGAAGAGAAGA A A A G G A A GCAAAGGGAGGACAAAGGGACGGAGGACCAGAGAA $G G A G G G G G G G A A A A G G A G A G C G A G C C A A G G A G A A A G A G A G A A$ $G G A G A A A G A G A G G G G A G G A A A A A G G G A G C A A G G G G G A A G A A A$ GGCCGAGGGGAAAGAAGAAAGAGGAAGGAAGAAGAGAAAAGA GAGAGGAAGAACTTCCGGGGGGCAGAGAGAGAGAGAGAAAAA AAAA $A \operatorname{A} G A G C A A C C A A A A G G A A A G G A A G G G G A A G G G G G A G G G G$ CAGAGGGGGGAAAACCGGGAGGCCCAAAGGGGGAAGAAAAAG A A A A A A A A GACCAGGGAAAAGGAAGAGGAAGAAACCGGAGAA C CAA A A GAGGAGGAAGGGCCGGAGGAGAGGAAAAAAAAGAAA
 A G G G G A A A A A A G G G G A A A G GA $A$ A A G G G A G G G A G G G A G G A A A A A TTCCAAAAAACCAAAGAGAAAGCAGACAAGAGGGAGBACAAA A GAGAGCGAGAAGGGGGGAAGAGGACGAGGGAGGGAAAGGGG AAAACCGAGAAAGGAAGGAACCCCAAACAAGGGGGAGAGAAA A G G GAA A GAGGGGGGAAGAAAAGGAAAAAACCGGCCAGAAAA G G G G A A C C G G G A G A A G A A GAAAAAAAGGGGACAGAGAAACAA A A A A A A G G A A G A A A A A A GACGGGGAAGAGGAGCCAACCACAA A A A G A G A A A ACCGACCAAAGAGACGACCAGAACAAGGGGGGG A A G G G GCCACAAGGCCGAAGAAAGGGGGGGGGGGAAGGAGAG A G GAGGAAAAGGAAGGGAGAAGAGGGCCGGGGGGGGCAAAAG GAAGAAGGAAGGGGAAGAAAGGGGAGCCAAAAGAAGGGGGGG A A A A A A C C CAAAGGAAGAGGGGAAGGGAAGAAAAAAAAGACA GAGAAAAAAAGAATAGAGAACCCCGAAGGAGAAAGAGAGGGA AAAGGGGAGAAAGGGGACAGGAAAAGAAAACACCGAAGAAAG A G A A A G A A A A A G G G A G G G G A A A G G G G G A GAAATTAAGAAACC G G G G G G G GAAGGAAAAGGGGGGGGGGACAAAGACGAAAGAAA GAGGGGACGGAGACAAGACAGAGAGGAGGAAAATAAACCCBA GACCAAAAAGAGAAGAGAATCCACGAAGGAGGAAACTTGGGG
 G G G A A A G G G G A A G G G G A A G G C C G G G G A A A C G A A GA GAAC C C $C$ GACCGGAAGAAGAAAGAAGGGGGAAAGGAAGAGAGAACCCCC

C CAACCGGAAAAGAGAACAAGGGAGGCCGGAAAGGGAGAGAG GAGAGGGAGGGACCAAAAACAGGGGACCAGCACAACAAACBG
 G G G G G G G A A A G G G G C C G G G A A A A A G G G GA GAACCA GAA G G C C G G G G G GAGTTGGGGAAGGGGACAGAGAGAAAAGGAAAAAGAA G G G GCCGAAAAAAAGGAGAGGAGAGGAAGAGAGACACACAAA G G A G G A A G G G G G A A G G G G G A A A G A A A A A G G G G C A A A GAA $\mathrm{A} C \mathrm{C}$ AAGGCCAAAAGACCCAGGGAGAAAAGGGAGGAAGAAAAAGGG A A A A A A A G A GCC G A A A A GAAAAGGAGGAGAAGGGAGAAAAGG A G GAAA A A G GAACAAAAAAGCAGAGGCCCAGAGGGGGGACGG C CAA $A$ AAA $A \operatorname{G} G \mathrm{G} C \mathrm{C} C \subset A A A A C A G A G G A G G G A A A G G A C C G G G G$ GAAACCAGGAAAAAGGGGAGCAGGGGAAAGAAGGGAAAAA G G
 A A A G G GAA A G A CAAAA A $A \operatorname{A} G G G G G G G G C C G A A A A G A G A A A T A A$ A G GAGGAGGACAGAGAGAGGAGAGCCCCAGACAAAGCGGGCA G GAAAGGGCCAAGGCCGGGAAGGGGATAGGGGGAGGGGGAGA AAAGGGCAGACCATAAGAAGGGGAAAGGAAGGGAAAAAAAGG AACCAGGGGACCCCAAAAGAAAAAAAGAACAGAGGAAAGGGG AAAAGGAAAGGGCCAGGGCAAGAGCCGGAAAAGGAGCCAAAA AAAAGGGGAAAAAGAGAGGAAAGGAAAGAGGGAAAGAGAAAA $G G C C A A A A A A A G G G A A G A A A G G G G A A G G A G A A G G G A G A G A G G$ GAGAAGAGGAGGGGGAACGGAAAAGAGGCCGGAGGGGAGAAA C C T TA GAAAGAGAAGAATGGGGGGAAAGAGAAA GACAGAGAG A GACC G G G A A A GCA GACCGGAAAAGAAAACGGGGGGCCGGGG GAGAGAACAAGGGGCAGGCCGGCCGGCCGGGGGGGGAAGAAG AGCCAAAAAAGGAAGAGGAAAAAAGAGGGGAAAAAGAAGAGG G GAGGGAAGGAAACAAGAGGGGGGGGCCGGAAGGAAAAAAGA TAGGAACAGGAAAAAAGGGGGAAAAACCAAGGAAGGGACACC AACCACAAGGAGGGGGAAAAAGGGCCGAGGAAAACAGAAAGG GACCGAGAAAGAAAAACCCCAGGGCCGGCAAAGGGAAAGAAA C C C C G G G G G G G G G G G G A A G A G G A A G G A G A A A A G G A A A C G G A G G G GAGGAACCGAGAGGGAAAAACAGGGGAGGGCCGAGAGAGG G G G GAGAGAAAGAAGAAAGGAGAAAAGGGAAACAAACCAAGG G G G G A A G G G A G G A A G G G A G A A A A GAACCA GAAA A G GAAACA $\mathcal{A}$ G GCCAAGGAAAACAGGAAAGGAACGAGAGGGGAAGGCCAAAA
 AAAGAAAAAAGGAGAGAAGGCAAAAAGAAGAGAGGGGGAAGG A A A A A A A ACCAACCGGAAGGAAGGCCAAAAAAAAGGAAAAAA A A A A G GA G A A GACAGGCAGACACCGGACAAAAGGAAGBAGGG A A G G G G G G GAAACCACAGCCGGGGAAGGAAGGGGGGCCGGGG GGAAACCAAAAGGGGAAACAAAAAGGGACCCCAGAAGGAAAA G GAAACAGAAGGAAAGGGACGGGAGGAAAAGGGGGGGGAAGA G GAGGGGGAGGGGGCAGACAAAAGGAGGGAGAAGAGGGGGCA G GAAAGACCCAGACGGCCGGAGAGGGAAAGAGAACCAAGGAG AC G GAGAAAGAACCGGGAGGCACCCCAAGGGAGGCCCCAAAA GAAAAGAAGAGAACAGGAAGGGGGGGGAAGGGAAAAAAGAAA G G G G G G G G G G G GAAAAAGCACAAGGGGGAGGAGGAGAAAAAG G G GAA A A A G GAAAAAAGGAGAAGAAAGGAGGAGGAAGAAAGA A A G GAA A G GAGAGGCCGGAAGGGAAGAAAAGAAAAGAGAGAG A G G G G GA $\operatorname{l}$ A $A G G G A A A G A G A G A G A G A A G G A A G A A A G A A G A G A A$ G G G G G G G G G G A A C A A A A A A C G G A A G GAAGGACGGGACAAC G G $G G C C A G A G A A G G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G G$ C C G G A A A A A A A A G G G G A G A A G A A CA GAA A A GAAA $A$ A G G A A A G G G G GAAAAAACCACCCAGCCAAACAAAGAACAAGGAAGATAG A GAGGGGGAAGGAAAAAAGGCAGGAAAATXAAGGAAGGGGGG G G G G G G A A G G A A A GCCAAAAGGGACAGGGGGGAAGACCAAAG A G G G G A G G A C A G A G G G G G GAGGCCAGGGCCAAGAGGGAAGAA C C A A GACCCCCCAACAGAAAACACAAAAAAAAAAGGGGGGGA TAAGGGCCGGGGGACCAGGGGGAAGGAAAGAGGGGGACAAAA

CCGGGAAGAACCCCAGAAGGAAAGGACCGAACCCGGAAAAGG A A G G G G G A A G G A G G C C G G C A A A G G G G G A G A A A C A G G G
GCCGGACGGAACGAGCGAAAGGGGCAAACAGAGAGCAAAAG AACAAGACGGAAAACAAGGGAAGGAAGGGGGGAAAAAAGGGG G GCCGGAAAAAAAAAGGGGAGGGGGGGGGGAAAGACAAAAAA G GAGAGAAGAGGACGGAAAGAAAAGGAAGGGAGAAACAGAAA G GAGAGGGAGAAAACCGGGGAAAACCAAGGCCAGAGAAAACC $C C G G G G A A G G G G A A A G G G G G A A A A A A G G A A A G G G A C G G A C A A$ A GAGGAAGAAGGAAAGGGAAAAGGAGAAAAGAGGCCAAAAAA G G G A GAGAGGAGAGGGAGGGGGGGGGGGGGAAGGGGGAAGAG
 A A G G G G G A A A G G G A GAA $A \operatorname{A} G A A A A A A A G G C C G G A A G G G A A A G G$ A C G G G G G A A A G A A A A A A A GAGGGGCAGACCCCAGA GA G G GA G G GAA $A \operatorname{G} G A A A C C G G G G G G G G A A C C C C G A G G A G A G A G G G C C G G$ G GAA A G G G G G G GAA AGCCAAAAGGGGCCAAGGAAAAAAGAAA G GAAAGAGGAGGAGGAAAGGGAAAGGAACCGGGGAAGAAAAA G GCCAAAAAGGGGGGAAGGGAAGAGGCAAGGAAAGAGGAGAA GAACGGGGGGGAGAGAGGCCAAAACCAAGGAAAGCAGAAGAG G GAAAAGAAAAAGGAACCAAAAGGAAGGCCGGAACCAAGGCC A A A A G G A A A A A A A A $\mathcal{A} G G G A A G G G G G G A A A A G G G G A A A A C A A A$ AAGGGGGGAAGGGGAAGGGGCAGGCCAAGGGACAGGACGAAA
 C C G G G A G G A A C A G A A A G G G A A G G A G GA GAAAGGGGGA GAAAA A A G G A A G G G G C C A $\mathcal{A} A \operatorname{A} G G G G G G G G G G G G A G G G A A G G G A A A G B$ G G G G G G G G A A A A G G G G G G A A G G A A A A A A A A A A A A G GAA G G A A
 A GAAGATTGACCGGATAGAAAAAAGACCAAAAGAGGGAAAAG A A G GAGCAGGCCGGGGGGGAGGGGAGACGAAAGGCCAAACAG A A G G A A G G G G A A G G A G A A A A CACAAGGGGGAAAAACAA G GAA C CAAAAAAAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAACA GAAGAAAAAAGGGGAAGGAAAAAAGGCCAAGGATAACCBAAA AAAAAGGGGAAGGAGGGACCGGAAAAAAAAAAGAAAGGAAGG G G GAA A A CAGA A G G G GAGAGCAAAGGCGCCAGAAGGAAAAAG A A C A A C A A G G G G G G G G A G T T A A G G G G G G A A G GC C G G C C A G G A A A A A G GAACCAAGGAAGAAGGGACAAGAAGGGAAAGGGAAGG GAAGGGGGGGAAAAGGAAAAGAGGAGAAAAGGATACAAAGAG AA $A$ A A A G G G G G GAA A GAGAACCAGGGGGAAAGGGCCGAAAAA G GCAGGAGGACCAAGGGGAAGGAAAGGGGAGAAACCTTGAGA G GCCAAAAGGGACCGGGAAGGAAGAAGGAAACAAAAGAGAAA $G G C C A A G G G G A A A G A A G G G C G A G A A A G G A A G G A A A A A G G G G A$ $G G C C C A A G G A A A G A A G G G G G C A A A G G A A C C A G A G G G C A G G A G$ $A G G G A G A A G G A A G G A A G G A A A A G G G G G A A A A G A G G G G A A A B G$ G G G G G A A GAGGGGAAAGGCCAAGGAAAGAAAGGAACGAAAAG CA A G G A A A A C C A A A A G G G G G G G A G T A A A G A G G A A A G A G A G G A

 G GAA A GAAGGCCAAGGAAACAAACGGGGAAGAAGAAAACAAA $C \subset A A C C G G A G A G A A G A A A A A A A G G G G A A A C A A G A G A A G A G G A$ A G G GAAAAAAGGACAGGGCCGGAAAAGGGGCCAAGGACAGAA G G G G G G C A G G G G G A A C G A A A A G G GAGGAAACC GAGAAAAA G G G GAGGGAAGGAACCGGAAAAGGCCGGAACCGGGGBAAGGGGG
 A A G G G GCCAACCGGAAAAAAGAGGTTGGAAAAAGGGGGAAAT $C C C C A A G A G G A C A G A G A A G G A A A A G G A A G G C C A A C C C A G A G G$ A GAGAAGGAGGAAAAGCCAGAGAGAAAAGGGAAGAAAAGGAA GAGGGAGGGGAGCAGAAAGGAGGAGGCCAGACGGAGABAGAG A A G G G G G G A G G A T T A A CAAA A G GA $A \operatorname{AAGGGGAGGGGGGGGAAAA}$
 A GAAAGAAAACCAAGGAAGGAAGAAAGACGGGCCGGAGAAGG

C C C C C CAA G GAAAAGGAAAAACAGGGGGAACCAAAAAGAAAA A A A A A A G GCCGGGGGGGAGGACAAACAGAGCCAAAGAAAGAA A GAGAAAGGAGAGAAGGGAGAGAGCCGGAAAGGAAAAAGGGG GACAAGGGGGCCGGGGGGGAGGAGAGAGCAAGAAGGGGAAGG CCAAGGAAAAGGAGAGAAGGCCGGAAGGAAAAGGAAAA G GAAA A A G G G A G G A A G A A A A A CA $A \operatorname{GGGAAAGGAAAGAAAGAGGGAGAA}$ $A C G G A A G G A A A G A A G A T T G G G G A A A G G G G G G A G G A A G G A G G G$ AACCAAGGGGGGCCGGAGGGGGAAGGAGCCAGAGCCAGAAAC C C A A A A G G G G G G G G A A A A G GAGAAAAGGAAAAGGGAAAA A A G A GAAAAAAAGAACATTCCAGGAAAGGCCAGCCAAAAAAAAGG G G G G A A G G A G A G G G G G C C G G G G G G T T G G A A A A G G A A C C A A G G $A G G G A A A A G G G G A A G G A A G A G G A A G G A G A A A A G G A A C C A A G G$
 G G G G C C G G G G G G A A G G GAA A A A A A A A G G G GAA $A$ A A A A A A G G G G AAAAAGCCAGGGGGACAGGGAACCAAGGAATTAAAACCGGAA GAGGAAGGGGAAGGAGAGGGGAGGAGAAAAGGAAGACAAGAG GAAAGAAAGAGGGAAAGGCCAGATAAGGGGAAGACAA GAAAAA A A G G G GAA $A \operatorname{GA} A \mathrm{~A}$ GAAAAAGGAAAAAAAAAGACAACAGGAGCA A G G GACGGCCCAGAAAGGGGACAAAAAGAGAAAAGAAGAGAG A A C A A A A G A C G G G GAAA $A \operatorname{AGGAAAAGGAAGAGAGGAAGAACAG}$ G G G G G GAAGAAGGAGGCAAACCGGGGGGGGGGAGCCAAAACC A A A A G GAA A A GAGGACAGGGGGGGGGGGAAAACAGGCAAGCC AAAGAAGGAGGGAAAGACGGGAGGAAGGGGAAGGAACAAAAA A A A A A GACGGAAGAGAAAGGGGCCCCCCCCAGAAAGGAAAGG A A G G G G G G GA $A$ A A A C G G G GAA A A A A A GAA A GAA G G C C G G G G A A G G G G G G G G A A A A A A G G A GAAAAGGAGGACACAGACAAGCAAA $C \subset A A A G G A G A A G G A G G G G A A A A A A G G A A A A G G A C C C G G A A A A$ GAGGAGACAAGGAAGGGGACGGCAGGCACCGGAAGGAAGAGG A GAA A A G GCCAAAAGGGGGCTTGGAAGAAATAAAGGGGAGAA A GAAAAGGAGAGTTAAGGGGGGAGAAAAAAAGAGAAGAAAAG G A A A A A G G G G A G G A G A A A G G C G A T A A A A A A A GAA $\mathcal{A} G G G G A G G$ GATTCCAACCAAAGAGGGGGAGGAGGTAGGAAAAAAAAGAGG AACAGGGGAACACAGAGGGGGAACGAAAAAGAGAAAAGAAAG GAAACCAAAAAAAACAAAGGGAGAAACCAAGGGGAAGGAAAA C C G A C CA GCCAAAGAGAAGAGAAAGAGGGAGGGGGAAGAACAC GAAACAAGAGAAGAGGGGCCGGCCGGGGGGAAAACAGGAAGG A GAGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGAG AAACGAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAAAAAAA G G G G A A G G A A G GAA A G G G C C A A A A A A G GAAGGAACCCAAAAA
 CAAAAAGAGGAAGACAAAGAAAGGAGAGGGGGAAGGGGAAAG G G G G A A G G G G A A C C G G A A A A G GCCCCAACCAAAA G GAA G GA G GACGAAGGAAGGGGGGGAAACCGAAAAAAACCGGAAGGGGCC A A A A G GAA A A G G A G C A G GA TA G G G G G G G A A A G G G A G G C G G A A GAGGAGACGGGAAGAGGAGGGGGAGGAACCAGGGCCGAAGAG A G A G A A A A G G G C C C G G G G G G A A G G G G G G G G G A G G C A G G A G G A
 AACCGGGAAGGCGGTTAGAAAAGGGGCCGGGGGGGACCACAG A A G GAA $A \operatorname{GAA} \operatorname{A} G A C G G A A G A G G G G G G G G G G A G G G G G C C A G A A$ A A A A G GAACCGGACGAAGGAGAGGCCAAAAGAAAGGGGCAAA CACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAAA A A GA G A A A G G A A GAAAAAGGGGAGCCGGCAGGGGGGCAACAA GAGAGGGGGGAAAAAGAAGCAAGGGGGGAGAAAAAAAAAAGG CAAGAAGAGGAAGGGGAAGGGGGGAAAAAAAAGGGAGGAACC AAGGAAAAAGAAGGAAGGAAAGACAAACCAAACCBAAGAGAG C C A A A A A G G G G G G G A A GAAAGGCCGGGAAGGGGGAGAAAAAA C CAAAAGGCCGGCAGAGGCAGAACAACCGGAAAAGGGGAGAB A A G G A A T T A GAGCCCCCCAAGGGAGGAACCGGAGGGCCAA GA $C \subset A A G A G G G G A A A A A A G G G G G G A A C C G G A G G C A A A A G G G A G G$

G G GAAGGGAGGGAAAAAAAAGACCGAGGAACCGAAACCAGCC A G T T A A G G A A A G G G G A G GA A $\mathcal{A} G A A G A G G G G A A G G A G A$
$A G A G A G G A A G A A A G G G A G G G G A A G G C G A A A G G G G G A A G G G G$ AGGAGAGGCCACGAAAAAGAAGAGGGAGGAGGGGATAAAAAA $C C G G G G G G A A A A G G G G A A C C A G A G G G G A C G G G G G G A A A C A G G$ A A C C G GCC G A A G G G G G A A G GAAA A G G A A G G A C A G A C G A G G G G AACCGGAGAAAGGAGAGAAGGACCGGAAAGGAGGAAGAAAGA AAAGAAAGAAGGGAAAGGAAGGGGGGAAAAGAAAGGGAGGAA A A G G G G G G A A A C G A A A G GAA $A \operatorname{AAGGGAGGAGAGGGACAAAAAG}$ GAGGGGGGGGAACCAAAACAGGGGCCAAAGTAGAACACAGAA G G GAAAGGAGGAGACCGAAGAAAAAATAAAGGGAGGCCAGAC AAAGGGAGGAGAAGAACCCAGAGACAGGAAGGAACAAAAAAA G GCCGGAAAGGAAAGGAGGGGGGGAAGGGACCAAGAAAGAGG G G G A A A A GAGAAGGCAAAACGGAAGGCCGAACAAAGAAAAGA A GCCGAAGGAGAGGGGAAGGGGAAGGCCGGAAAAAGAAGAAG GGCCAAAGAAAAGAGGACAACCAGGGAAGGCAAAAAAAAAGAA G G G G G G G A A A A A A $\mathcal{A} G G A G G A A G G G G A A A A A G G G G G G A A A G A G$ GACACCAATTGACCCCAACCAGGGAGACGAGACAGGAAGGAG CAAGACAAAAGGAAAAGGAAGGAACCAACCAAATCCGGAAGA A GCCCAAAAACCGGGGGGAAGGGGCCGAAAGGGGCCGAAAAA G G G GAAGGAAGGAAGGGGAACCGGAAGGAAGGCCAAAAAAAG A GCCCCAAGGAAAGGGGAGAGCAAAGAAAAGGAGGGAAAAAG A G G A A A A A G G G GA $A \operatorname{GA} A G G G A G G A A A A G G G A A A A A A G G A G A G$ ACGGAGGGAAAGAGAAAAGGAGAAGGAGAGAAGGGAAAAAAG
 AGGGACAGGAGGAGGACCAACCGGGGAAGAAAACGACAAAAG A G G GCAAGGGCAGGGGAAATAGAGAAAGAACCAAAAGGGGTA GAGGGACCGACAGAAGCCGGGGGGAAGGAAGAAACAGBAAAC GACCAAAAAAAAAGCAGAAAAAAAAAGGAGGAA GTAGGAGAG AA $A G G G A A G G A A A A A A G G G G G G A A G G G G A A A A A A A A G G A A G G$ C C A A A GAAAAGGGGGAACGGAAAAAAGACAGGCCAAAAAAGBG G GAGGACCGACAAGAGAAGGGGGGAAGGGAGATTGGACAGAG C C G A A G GAA $A \operatorname{GA} A G A A T X G G G G C C G G A G A A C A A G G A A A G G G A$ GAAGGACCAAAAAGAAAAACACGAGAGAAGAAAGGGGGAAGA
 G G A A G G A G A C G G G G G G G G A A A A A A A A A A A A C C G G A A A G G G A A GAGGGGGGGAAGAAAAGAGGGGAAGAAAAAAGAGGGAAAAAA AACCAAGGGGGGAAAAGGAGAAAAAAGAGAGAGGGGCCAGAAA A G A G A A G A G G A G A A GAGGAGGGAAAAGGAACGCCAAGAAACC A A A G A A A A G G A A G G C C G A G G C A G GCC G G G A T A G G G G A A G G C C G GAGGGAGAAAGAAGGAGGGGACCAAACGGCCGGGGGGAGAA G G G G A A A A A A G G A A G G A A G G G G A A G G G G A A A G A A A GA G A G A A $A C G A G G G A G G A G G A G G C C C A G A A A G G A A G G A A A A G A G G A G G G$ AAAGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACC G G G G G G GAGGAAAGCAAGAAGGAAAGAGGGGGAACCAAAAAG GAAGGAGAGGAAAAGGAAACAGACAGAGGGGGACAGGGCCAG A G GAAACCGGGGAAAAGGAAGAAGAAGAAGGGAAAACCGGGG G GAAAAGGGACCGGAGGGAAGGGGGGCCGGAACCAAGAAAAA AAAAAACCGGAAGGGGCCCCGGAACCAACCAAGGGGGGAGAA G G A A A A A A A A A A G G A A G G G G G G C C G G C C G G G G G G C C G G G G G G G G G G G G G G G G G GAAAACCAAGGAAGGCCAAGGGGGAAAAAAG G G G G G GAA $A \operatorname{AGAAC} C A A G G A A G G G G G G C C G G A A G G A A G G A A A A$ G G G G A A A A $\mathcal{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A G G A A A A A A A A A A A A A A A G G G G$ AAAAAAGGGGGGAAAACCGGGGAAAAAAGGAAGGAAGGAGAA G GAA $A \operatorname{A} A A G G G G G G A A G G A A G G G G G G A A A A A A C C G A A A A A G G$ $G G A A G G C C A A G G G G A A G G A A A A A A G G A A G G G G A A A A G G A G G G$ G GAA $A \operatorname{GAA} G G A A A A A A G G C C C C A A C C A A G G G G G G G G G G A A G G$ G G A A A A G G G GCCGGGGAAGGCCCCGGAAAAAACCAAAA GAAA AAGGAAGGGGGGAAAAGGAAGGAAGGAAAAGGAAGGGGGGGG

G GAACCGGAAAAAAAAGGGGAAAAGGAAAAGGAAAAGGGGGG A A G G G G G GCCAAGGCCGGGGAAAACCAAGGAAGGGGAAGGAA GGAAAAGGAAAAAGCCAAAAGGAAGGAAAAAAAA GAAAAGGG G GAA $A \operatorname{GA} A G G G G G G G G A A G G A A A A C C G G A A G G A A G G G G A A G A$ G G G GAA $A \operatorname{GAAC} C A A A A G G A A G G A A G G A A A A G G G G G G G G A A G A$ G GAAAAAA $A \operatorname{A} A A \operatorname{A} G A A A A A A A A C C A A C A A A G G G G G G G G G G C C$ C C A A C C A A A A C C G G C C G G T TAA $A \operatorname{GGGGGGGGGGGGGAAGAAA}$ G GAA A G G G A A G G G G G G G G A A G G C C G G G GAAAA A G G G G G G G A A A G G G G A G A A A G G A A G G G G G GACACCC GAGGAAGGAAGA GAA G AAGGAAGGGGAAAAAAAAAAAGGGGGAAGAAGCAACGGAGAA
 G G G G G G A A A GCCA G A A GAGGTTGAAAGAAGGAAA GAGGAC G G GACCGGGGAGGGGGAAAACCAAGGGGAGAACCGGCAAAGAAA G GAAGAAGAGGACCAAAAAGCCAAAAGAGACAAACAGAAGGA G G GACCAAAAGGGGGGAAAACCAACAAAACGAGAGGAAAAAA GAGGAAGGAAGGGGAAAAGGAAGGGGAGGGGGGGGGGBAACAC C G G A A GAGAAGGGGAGAAGAGGAAAAACAAGGGGGAAAGAAA G G A A A A A ACCAAAAAAGGAAAAAAAAAAGGAAGGBAAGAGAG AGGAAGAAGAGAGGAGGAACCAAAGAAAAACCGGGAGGAAAG AGACAACAGGGGCCAAGAAACAGGAAAGAAGAAAAGAAAAGA G G G GA GAA A G G GAAAAGGAAGGAAAGAAAAGGAGACAGGGGG A G GAGAGGAACCAACCGGAAGGAAAAAAAAGGGGAAAAAAAA G G G G A A A A A A G G A A A A A A G G A A G GAAAA A G G GAAA A C C C C G A A G A A C A G G A GCAA $\mathcal{A} A A A G G A A G G G G A A A A G G C A G G A G G A G A A A$ G G G A G A G A C A A A A G A A A G G GAA A A C C G G G A A G A GA GAA G G G G A G G A A A A GCGGGAACAAAGGGGGGAAAAAAGAA G GAGAACCGG G GA A A A A A G G G G G GAAAA $A \operatorname{A} A A A A A G G G G A G G C A A A A G G G G A A$
 T T G G G G A A A A A A G G A A G G G G G G C C A A G G G A A G A A A A C CAA G G CCGGAGGGAAAAAAAAGGAACCCAGAAGAAAAAGGGACGGCC GATAAGAAAGAAAAGGAAAAGGGAGAAGGGAAAAAACC G GA G $A$ AACCCCAGAAGGAAGACCAACCAAGGAGGGGAAGCCCAGGGA G G G GCCAA $C$ G $\operatorname{CA} A A A G G G G G G A G A G A G G A G G G A G A G A A A G G G G$ A A G G A A A G G G A A A G G G G G C C A A A G G G CA $\mathcal{A} G G A C C B G C A A G G G$ AAAAAGGGAAAACGCACCGGAAGGCCAAAACCAAGGGGGGGG G G G GAGAAAACCGGCAAAGGGGGGGGAAAAAAAAAAAGAAAG G GAGAAACAAGGGGAACCATAGCACCCCAAAAGGTTAAATAA GAAAAAGGAAAAAAGGGAAGAGGAGAGGAGCAGAAGAAAGAA CAAA $A \operatorname{AGGGAAAACCGGGCAAGAGAGGGCAAGGGGGAAAAA} G G$ A A A A G G G G G G A A A A T T G A G GAGACAGCAGGCCCCCCGACAAG A GAAGAAGAGCGCAGAAGGATTCCCCCAAAAACCCCAAAGAA G G A A A GCCGGGGGAAGGACCGGAAAGGACCGGAAGAAGAACC A G TAAA A G G GAAGGGAAAGGAAGGAAAACCGGGGCCGBAAGAA G G A A A A A A G G A A A G A G G G G A A G G A A G G G G A G G A A G G C C G G A A A A G G A A A A GCGGGAGAGGACGGGGTTGGCCAGAGGCGBAABA ACAACCAAAAAAAAAGGGAAAAGGGGGGGAAAAA GAGGAGAAA T TAA A GA $A$ A A G GAA $A \operatorname{AAAGGGGGGAAGGAAGGAAAGAAAAGGAA}$
 A GAATAGAGAAGAAAACCAAGGAAGGAAGGAAAAGAAAAAGA A G T T G G A A A G G A C C C C G G C C A A A A G G G G G G G G G G G G A A A A $G$ G G G G G G G A G G G G A G A A G G GAGGGGAAAGAGGAAGGAAAA GAAA G G G G GAGGGGAAGGAGAGGACAAAGAAAGGACAAGGCCAGAG G G GAGGAAGAGGAAGGAACCGAGGGGAAACAAACAAAAAAAA AGAATTAATTGAAAGAGAGGGAAAAAAAGGGGAAAAAATTAA
 A A A A C CAA A GAGAAAAACAAGGAGGGGGAAAAAA GGGGAGAC GGCCAAGACAAGACAAGGAAACGGGGAAAAAGAACCABCAGB
 CAGGAGGGAAAAAAGGAAAAAACCGGAAAAGGAAAAGGAGAA

G G G GCCGGAGGGAGGGAAGAGGAAGGGGCAAGAAAAGGAAGA A A G G G GCCAAGGGAGGGGCCCCACCAAAAAAAAAGGG
GAAAAGGGGCCAAGGGGACAGGAGGAACCAACCCCAAGCAG A A G GAAAAGAAGAAAACCGGGGGGAACAAAGGGGAAAAGAAG
 G GAGAGAGAGGGAGAGAAGGGGAAGAGAGAGGAGAAAAAGAA AAAGGGAAAAGGGGGAGGAAAAAACCGGAAAGCCAAGCCCBG AACCACAAAAAAAACCGAGAAGAAAGGGAAGGAAAGAAAAAA G G A A C A G A G G G A G G G G A A G G G G A A A G G A A C G A G G A T G G A G A A AAGGGGGGAAGGAGCCAAAGGCAAAGGAGGGAGAGGAAAGAA A A G GAAGGCCAAGGGGGGAAAAAGCCGGAAGAAGAACCCCGG G G A A A A A A A CA GCGGGAGAAAAAAAAGAACGGGGAAAAAAAA A A A A A A A A A A A GCACAGAAGGAGGAAGGAAAGGGGGAGGGCA A A A A A A GACCCCAGGGGGGGGGAAAGGAAGAAGAAAAAAGGG A A G G G GAA $A$ A A A C C G A G GAGGGGGAAAGGGAAAACCAACAAA ACAGAGAACCTTGGAACACAGAAGGGGAGGAGGAAGGAAAGA G G G G G A A C A G A G G A A G T T A A G G G G G G G A G A G C G G G G A A A A $G$ G
 A G G G A A A A C CAA $A \operatorname{AGGGGAGGGAGGGGGGGGAAAAGAAAACAA}$ G GACTXCGGGAGAGAAAAGGAGGAGGAGAAGGAAAGAACAAA G GACGAAAGAGGAAGACGAAGGGGGGAAGGAGAAGGAGAAGA
 A G GAA ACCAGGGGAGCAAAAAAGAGAAAAAGGAAGGGBAAAA T T A A G G G G A A A A A A A $\mathcal{A} G G G G G G G G A A A A G G A G G G A A G C A A A A$ A GAAAAGGAGCCAAGGAAAAGACCAACCAAGAGGAAAGAAAT GGAAAAAGGCAACCAGAGGGAAAAGGAAGGGGGAAGAAAAAA A A G G G G G G G GAA A GAAGGAAGGGGGGGGAAGGGACAAGACAA G GAA $A \operatorname{A} A A A G G A A A G G A A G G A A G G A A A A A G A G G G G A G G A A A A$ G G G G A A GACC G GAA A A T T G G A GAAAAGGGGGGAGAAGGAGAG CAAGAGGGAGAGGGACAAAGGGAGAGAAAGCAAAGGCCACAG A A C A G A G A G G G G G G G G G G C C G G A A G GA GAAACCCCC A A A GAA AGGAACAAAAAAGGGGACGAAAGGACCAAAGAGAGAAAGGAA A G G G T A A GA $\operatorname{A} G A A G A G A C G A G G A A G A G A G G A A A G A G A A A A A T$ AAAAGAAAAGAAAAAAAAGGAAAGAGGAAGGGAATTCAGGGG G GAGGAAAAAGAACCAAGAAAGAAAAAACCCCGACCAA GAAA G GAA $A \operatorname{GG} \operatorname{GAAA} G G A G A G C A G G C C A G C C G G G A A A A A A A A G A G G G$ G GAGAGACGAAGCACCGGGAAGAAAAAAACAAAAACGGGGGG GAAACCAAGGCCGGGGGGGGAAGGGGAAGGGGGGTTAAAAGA A A GAGGGAGAAAAAGAGGGAACAGAGAGATCGGAAAGAGGAC AA $A G A A A A G A A G A A A C A A G A G G A G G A A G A A A G G A A G C A G A A A$ $A G G G G G G A G G A C A A A G A A G G G G A A G G G G G A G A G G G G A A A A A A$ G GAA $A \operatorname{GAA} A G \operatorname{A} A A A A G G A A G A A A A A T A A A A A C A A G A A G G G G G C$ G G G G G GAACCGAAAGAAAGGGGGATTAAAAGGGGAAAACAAA $A G C C G G G G G A A A A A A G G A G G G G A G A G G G C A G G A A A A C C G G G G$ ACTAAAAAAAGGGAGGAAGGAAGAAAGGAAGGGAAAGAAACC CAAGAAGAACAGGGAAAGACAAAGGGAAAAGGAAGGGGAAAA G GAA A A A A A ACCAAGGAAAGAGAAGGGGCCCCAGAAAGACGG T TAAAA A A G G GAGGAGCAACGGGGAGAGACAAGGCCAAAAGA G G G G G G G G GAGGGGAAAAGGGAGCGAACCAACAAGGAACCTA
 A GACA $A \operatorname{AA} A G G A A C A G G G G A G G A A G A C G G G G G G A A G G A A G G A A$ AAAGGGGGAAGGAAGAAACCGGACAAGGAGGGAGGAAATTAA AC G G A A A A C C G G G A G G G G A A G G G G A A A G C C A A A G A A G G A A G A AAGAAAAAATAGAAGGGAAGCCGGAAGGGAAGGGGAACGAAA
 $G G A A C G G G C C G G A A G G A A A A A G A G G G A A G G A A C A A A G G A A A A$ CCGAGGAAAAGGGGGGAACCAAGGAAAAGGGAGAAAAAAAAA $G G A G A A A A C A A C G A A A G G A A G A A G A A A G G G G G A A A A A A G G A G$ GGAGAACCAGAAGGGAGAAGACAGGGAAACGGAGGGGGACAA

G G G GAAAAAAGGGAAAAGGAAGGGGAGAGAAAGGACCCCCA $A \subset A G A G G G A G A G A G A G G A G G A A A G G A A G A A A A A A G G G G G G G G$ $G G A G A A A G G G A A C C A G G A A A G G G G G G G G G C A G G G G G A A G G C C$ GGCCAGAAGGAGCCAATTAAGAACAAGGGAAGGGAGGGACAG AAAGAAGGGGCCGAGGAAAAGGGGGAGGAAGGAAAAAAAAAC ACAGGGACAGGGAAAGGAAAAAGGCCGGAAAAAAAACGGGGA G GAGCCGGAAACAAGGGGGGCCAACCGAGGAGGGAAGAAAAG G G G G G GCCGGAAGGGAGGAGAGAAAGGGCCGAAAAAGGAGAG A GCCAGAAGGAAGAAAGGATAGGGAAACAAGGAGAGAGAACC G GAAAGCCACAAAAGGCAAAAAGGAAAAAAAAAAGGGGAACC T TCAAACCACGGGGGACCGACAAGCCGGAAGAGGGGAAGGAA
 $G G C C A A C C A A G G A C G A A A G G G A A A G A A G G A A A A C A G A C A A G A$ C C G G G G G G A A A A CA A A A A A CA $\mathcal{A} G G G A A G A A A G G G A G G G G G G G$ AACCGAAAGAGGAAGGAGAAAAGAAGAAAGCAGAAGGGCCGG AACCAAGGGGGGGGGGAAAGGGGGAGAGAACCAACCAGAAGA G G A A G G G G G A G G G G C C G G T T G G A A A A G G A G G G A A G A G G C A G G
 $A A C C A A G G G A A G G G G G G G A A A G A A G G A A G A A A A G A G C A G A C A$ AACCGGAAAAGGAAAAAGAAAGCCCCAGGGGGGGGGGAAAAG A GAAGGGAACGAGAGGGAGGAAGGCCGGAGGGAAGACCGGAA C C G G G GCCACAGAAGGGGGGGAGGGGAAGGAGAGGGGAAGGG A G A A G G G G A G G G G A G G G G G G G G G G G G G A A A A A G G C C A A C A A $G$ A A A A A A G G A A G G A A A A A A G G A A G G GAA $A \operatorname{GGGAAAGGGCAAGAA}$ GACAAAAGAAGAAAGGGAAAAAGAGGGGAGCAGAAAAGACAG TATTGCAGAAACGGGGAAAAGGAAGGAATTGGAGGGAGAGAG AAAGGGAAAAAGGGAGAGACGGAAGAAAGGCCAAGGGGAAGB
 GAAAGGAAGGGAACAGGAAGGAAAGGGGGGAGAGAAGAAAAAA $G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G A G A A$ G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G G A A G G A A AAGGAAGGGGGGAACCCCGGGGAAAAGGAAGGCCCCGGGGAA G GAAAAGGAAGGCCAAAAAGGAGGAAGGAAAAGACAAAGGGG $A C A C A A G G A C G G A A A G A G G G G G G G G A C C G G C A G A G A A G C C G G$ A A G G G A G G G GCACCGGGAGAGAAGAAGAGAGGAACCAAGGAC AC G GCCAC GAAAAAGGAAGGGAGGGAAGGAAAAAAAGGAGAA G G GAAAAGAAGGCCGGGGAAGGAGGAGGAAGGAAGGGGCCGG $A C G G G G A G G G G G G C A C G A G A A G G G G G G A G G A A G G C C G G C C G G$
 A G G G G A G G G G A G G G A A A A A C GAA A C CAGGAGAGATTAAAA GA GGCAAGGAGGGGAAAAAAGGCAAGGAGGGAGGAGAAACCCCC A A G A C C G A A A G G A GAA A G G G A A G G CAAA A G G A C C A G A G A A A A AGAGGGCCCAGACAGAGAAAGGAACCCAGGGGAGGGGAGAGA A GAGGAGGGGAACCAGGACACAGGGAGGCCAAGGAAGACAAA
 AAGGAAAAGGAACCAAAAGGAAAGCAGAAAGAAGAAABCCAG C G A A G G A A A A G GAA A A A G CA A A A A G G G G G G G G C C A G A C A G G A A G GAGAGACAGGGAGAAAAAAAGGAAGAGGAAACCCGGGGGG GATTGAGGGGCCAGAGGAAAACGGAGGAAAGGGGGGGGGGGG $A G C C A G G G A A C A G A A A G A A G G A C G A G G A A A G A A G G A G G G G C A$ G G A G A G A A G G G G G G G GCCGGAAAGCCGGAAAAAAATGACAAC AAAACACCGAAGAAGGAAAAAAAAAGGGGGAAGGAGGGAGAG A C G A G G A G A G G G A G A C C A G G A A C A C C GAGAAGAG GAAA G C G G AGAGCCCAGGAAGGGGAAAAACGGAAAAAAAAAAGGAAAACC A GAGAGAGAAGGAAGGGGGGGAGAGGGAGGAGAAAACAAAAAA $A G A G G G A G C A A A G A G G G A A G A G G A A G A G G A G G A A G G A A A G A A$ $G G A A A A A G G A A A G G G A G G G G A A G G G G A C G G A G A A A A A G A A A A$ A GAGGAAA GAACGGGGAAGAAGAGAACCAAAAGGGGGGATGG $G G A A C C G A A A A A C A A G G G G G A A A A G G A A G G C A A G G G A A G G G A$

A GAAGGAGACGAGGGGAAAATTGGGAGGGAAAAGGACAGGCA A A A A G A G G A A A G G GAGCAACAAAAAAGAAGACAACGC
C GAGGGGAAGAAACCGGGGGGGGGGAAAAGGAAGAAAAAAG
 G GAAGGGGAAGGAAAATTAAAAAGAGAAAGAAGGAAAAA GAA CAAAAAAGGGAAGATTACCCGGAGAGGACCCAGGGAAGAAAA A G G GAACACAGACCAAGGAACAAAGAAAGGAGGAAGAAAA GA $A G C C A G G A A A G G A A G G G A G G A G G A A G G G A G A G G A A A G G A G G G$ A GAGAGGACCCCCCGGAAGGAAAGGGAAGGAAGAAAGGAAGG A A A A G G G G G G G GAGCCGAGAGGCCGGGGGGGGAGAGGGAAAA AACCAAGGGGGAAGCCAAAAAAGGACGGAAGAGAAGAAAACC G G A A A A G G A A A A GAAACAGGAGAAGGAAAACCGGAAGAAACA
 G G A A A A G G A A C CAA A G G G C C G A TA A A A A G G G G C C A A A A G G A A GAGAAAGAAGGAAGAAGAGGGGAGAGCCGGGGAAGGGGAACA A A G GAA A G G GAAAAAAAAAAAAGGAAGGAAAACAGGAAAAA G AAACGGGAAAAAGACCCCAGAAAGAAAAAAAAAAGGGGAAAA G G A A A A A A G G G GAGAAGGGGAAGGAAGAGAAAGGGAAGAGAG AAAAAGAGGACCGGGAAGAGAAAGAGAGCAAAGGAAGAAAGA G G G G G G A G C A G G G G G G T A A A C A G G C C G G A A C G A G A A G G G G A A AAGAGGAGGGGGAAAGAAAGAAGAGAGAAGACGGGGGGAGGG G G G GAGAGGGAAACGGGACAGGAAAGAGAAAAAAAGCAGAAA A A A A A A G A A A A CAA A A A A GAAAAAGGGGGGAGGGA GAGAGAG C C G GCGGGGGAAGGAAAACATTAAGGAGAGGGAAAAGGAAAA G GCAAAAAAAGGGAGGAAAAGACAGGAAAGGGTTAAAAAAAA A A G G GAAAGACAAACAAAAAAAGGAGAAGGAACCGGGACAAA GAAAGGAAGGAGAGAAGGGGAAAAAGGGGGGGGAAACCAGAAA $A \subset A G G G G A G G A G G G A A C G A C C C A G G G G G A A G C A A A A G G A A A A$ A ACCAAAGGAGAAGGAGGATACAGGGAACCAATAAGAGGGGG A G G G A A A A A G A GAAA A GAA A A A G GAGAACACA GAA GAGAGG G G G A A A A G G G G G G G G G G A G A A G G C A A C G G G G G A GA G G A G A G C C GAAGGGGAGAGAAAACACGGGGAAAGAAGAGAAGGAGAGGGA AAAGGACAGGGAGAAGGAGGGACCAGCACGAGGAGGAGAGAG A A A G A G A A A A A A G G A A A A G G G G G A A A A C G G A A C A A G G G G G G G GAGGGGGGAAGGCCAAAGAGCACAAAAACAAGGGGGAAGGAA A G GAGGCCGAAGAGAGGAAACCACGAGGGGAAGGGGAACCGG G GAAAAGGAAGAGGAGGAAAAAAGAAAAAAAACCGGAGGGCC ACAAACGCCCAAGGAAAAGGAAGGAAAAAAGAAAGGAAAAAA G GCCAAGGAACAGGGGGACCACGGAGAAACAGGGGGGGAABA C C G A C C G G G GAA $A \operatorname{GCC} G G G G A A A G A G G A A A A A A A T T C C A A G G$ A GAGGAGGACAAAAGGCCGGGGAGCCAAAGGGGGAGAAAAGB



 AACCAACCGAAAACCGGGAAGGAAGGAGAGCCAAGCAAGGAG GAGGAGAAAAAAAGAACCAAAGGGAGAGCCGACGGACCAAAC AAAAAACAACGAGAAGAGGGACACGGCAAGGGGGACAAGGGG AAAAGAAAGGGAGGGAAAGGGGAACAGAGGAAAGAAAGAGAA $A C G A G G A G A A A G G G A G G A A G G A G G A G G G A G G G G A G A C A G A G G$ AAACGGGAAGAGAGAGAAGGCCGGGGAAAAAAAAGGAAAAAA GGAAGACCGGGAGAAGAGCCGAAGAGGGAAGGAGAGAAGAAA A G A A G G C A T T A G A C C C C G A C G A A A G G G G G A A A G G G G G G G G A G GAGGAACCGGGGAGAAAGAAGGAAAAGGGGAACAAGAGAGAA AA $A G G G G G A A A A A G A A G A A A G G A G A A C C C A A A A G A G G A A A G G$ GAGGGAGGCCAAGGGGGGAAAAAAGGGAAGGGAGGAAGAGAA GAGGAACCAAAAGGAGAGGAGAGGAGACACAAGAGAAGATAG $G G A A C C A A G G A G G G G G C A G A A A G A G G A A G G A A C C G G A A A A A B$ $G G G C A G G G A G G A A A A A G G A A A C G A G G A G G G G A G G A T A G A T G A$

G G G G G G A A G G G A A G G G A GAGGGGGGGAAAAAAGAAAAAGAAA $C \subset G G G G A A A C G G G G A A A G A G A G G G G G A A A A G G G A G A G A A G G G$ GAAAAAGGAAGGAGGAGGGGGGAAAAAACCAAAGATGAACAA ACGGGAGGGGAAAAGAAACCAGGGAAAAGAGGAGAGAGAAAG A GACAACCCCAAAAGGGGGGCCCCCCGGAGCGCACAAACAAAA G GAGGAACGGGGGGGGGGGGAACCGGAACCGGGGAAGGACAC A A A A TA A G GACCAGAGAAGAAAAGAGAGAAAAACAGAGAAAA G G G GAAG $A$ A $A G G A C C G G C C T A G G A C G G A A A G G G A A G G A G A A A G$ G GCC C A G G G G G GAAAA $A \operatorname{A} G A A A A G G A G A A A G A A G A A A C A G G G G$ A A G GAAAAAGGGCCCCAAACAAAAAAGAAGAGGAACGGAGGG G G G GAGAGACCAAGGGGGGGAGAAGAAGAAGAGAAAGAGAGA A GAGAAGGCCAAGGGGAAGGGAAAGGCCCCAAAGACAGAACA G GCCGGGACAAAGGAAAGCCGAGGAAGGCAGGGGAAGGACAA A A G G A GCCGACCCCCAGAGAAAAAAACCGGGAGACCAAGGCC G G G G A A G G A T G G G G A G G G A G G A G G A A G G G G G G G A G A C C A A G G GAAAAAAACCAAAGGGGGGGGGCCAAGAACAAGGGAAAGGGG
 GAGGGGGGGGAGAAGGAAAACCAAGGCAAACCAAAAAAGGGG $A C C C C C G G C C A A G A A A G A A C A A A A G A A A C C G G G A G G A G A G G A$ A G A G G A A A C C A A A G A G G G G G G G A A T T A A $\mathcal{A} G G G G A G G G G C X A X A$
 A A G G G GAA A G G G G G A A A A A G GAA A C C C CA G GA G GA G G G G G A G G GAAGGCGGAGAACAGCAAGGAGAGGGACCAAGAGAAGAAAG A A G G A A GACAGGGGGAAGCCAAAAGGGAGATAACGAAAAA G G A A T T A GAAGGCCGGGGTAAAGGCAGGAAGGGGAAAAAAAAAA A GAAAAACGAGACCAGAGGAAACCAAAAGGGAGGAAAGABAA
 G GCGGGGGAAAAGGAAGGAAGCGAGAAGAACCGAGAAAAGGC C CAACCAGAGAAAAAAGGCAGGAAGGATCCGACCACAAAGCG AGACCCAGGAGGAACCGGCAAAGGGAGGAAAGGGAGAAGGAG G G A A A G A G A G G G G G G G G G A G G G A A G G A A C C A A A A G G G A A G A A G G G GAACACCAAAAGGGGAGAAAAGACCAAGGCCTTGGAAGA A A G G G A A G A G G G G G A A GAGAC GAA A G A A A A G G C C A GA G G G G G G G G G A G G A C G G G G G A GACAGGGAGAGAGAAAACCCC GAAGAA C CAACAAAAAAAGGGGAAAAGACCCAAAGGGGGAAGAAAC GG A A G G A A A A G G C C A A G G G G A A A A A G C C A A G A G G C C C C G G G G G G AAGGCCAGGGAGGAAGGGCCAAAAAAGGCAGAAACAAAAAGG G GAAA A A G GAGAGGGGGGGGAGGGAGAAGGAAGGAGAACAAG GAACGAAGGGAAAAAAAAGGAAGAGAGAAGGGGGGAAGAAAG G G G G A C A A A A A C G A A A G G A A A G G G A A G G G G A G G G G G G G G G G A AGAGCCAAGGAACCAACCCCAAAAAGCCGGCCAAGAAAGGGG A A G G G G C C G G G G A G C C G G A A C C G G G G A A A GAC GA T T G G G A C C A G G GAGAAACGGGAAGGGGAGGCAAGCCACCCCAAGAGACCC ACAGCCAAAAAGCCGGAAAGGGGGAAAACAGGAGAAAGAGAA
 A A G G G GCCAAGAAGAGAGAGGAAGAAAGGGAAAAAGAAGGGG G GAACCGGGGCCAACCAAGGGGTAAAGAAGAGGAGAAAGGGG A A G G GAGGACGGACCAGGGGAGAGGGAGAAAAGGAGAAAAAA AACAAAAAGAAAGGAATTGGGGGAGCGGAAGGGGGAAGAAGA GAAA A A G G G G A A A A A A G GAGGAAAAGGGAGTTGGGGAACAAA GAAGCCAAAAAACCGAGAGGAAGAGAAAGGACAGAAACAGAC GAGACAAAAAGGGGAAGAGGAAAAGGAAAAGGAAGGGGCCTT G G G G A A G G C C G G A A A C A GAGGGGGAACAGAAGGAGGAA G G G A G GAGGGGGAAAAAAAAATAAAAAAGGCCGGGAGGAACCAGAA C CAAAAGGTTAAAAGGAAGGAAAAAAGGAAGACCAGGGAGGA GAGGGGAAAAAAAAAAAAGGAAAAGGGGGAGGGGGGAAAACAC G GAGCCAAAAAGGAAAGGGGGGAAAATTAGCCAGAAGGAGAA G G G GC C C C G G C C G G A A G G A A G G A A G G G G G GA A A C A G G G G A A $G$ GAAAGGACAAGGCCAAGGAAGGAAGGAAACAAGGGACGCAGA

GAAGAAAGAAAAAGAGGAAAAGGGGGGGAAAAGGGGGAAAAA G GAA A G A GAGGGGGAGCCGGGGGGAGAAAACCAGAAG
GAAGGACGGAAGGGAGGGGAGGGGGGGAAAACAGGBAAAGG A A A A CCGGGGGGGGAAGGAAAAAAAGGGCCGGAAAAAAAGAG AAAACAGATTGAGAGAGAAGAGAGAAAAGGCCGAAAAA G GAAA A GACGAGACAGAGGCCAAAAGGAACCAAGGAGAAAAAGAGGG AA $A \operatorname{GAAC} \operatorname{A} A \mathrm{~A} A A G G C C A A G G C A G A A A G G A A G G G G G G A A A A G A$ AAAGAAGGACAAGAGGAGGGGGGGGGGGAAGGAAGGGGCAAA A A G G A A G G G G G G C C G G A A A A C C A A A A A A A A A A G G A A G G G G G G GGGGGGCCGAAACCGAGAAACCAAGAAAAAACGGGAAGAAAA G GCAAATXGGGGAGGAAGCCGGAAGGGAACAAGGGGAAAGAG C CAAC GAA $A \operatorname{A} G A G G A G A A A A G G A G G G A C C G G A A A G G A C C G G A A$ A G GA GAGGCACCAACCAAAAGAGGGGAGGAAAAAAAAGGGAA A A A A A A A GCC G G G ACCGAGGCAGGGGACAAAAAGAAAAAAAG GA $A$ A $\operatorname{A} A A G G G A A G G G G A A G G G G G G A A G A G A A G G A G G A A A A G G$ G G T T G G G G GAAAGGAGGGGAAA GAAGGACAAAGGGGGGGGGG

 $G G G G A A A A G G A A G G A A G G A G G G A A G G C C A G A A A G G G A A A G G B$ $A G C A G G G G G A C A A G T T A A G G A A G G A A A A A A A A G G A A G G A A A A$ G G G GAAAAGCGGAAGGAAGGAGGAAGACGGAAGGGGGGCCGG A G G GAAAGGGGGAGGGAAAGAGAAAAAACCCCAAGGGGAAGG
 GAGGCCAGGAAGGAGAGAGAGAAGGAAAGGGGAAAAAAGGAA A A G G A A A A G G A A A A $\mathcal{A} G G G A G G G G G A G G G A G G G G G G A A A G G A G$ A GAAACGGAGAAGGAAGGTTAAGGGGAAGGCCGGGGAAAAAA AAAAAGGAGGGGAAGGAAAAAGAAGGAGAAAGACAAGAAAGA G G G A A A GCGGGCCAAAGGGAAGGGGGAAAAGAAGGAABAGAG $A G G G G G G G A G G G G G G A A A G G A G G G C C G G G G A A A A G G C A A A A A$ AAGGGGCCCCGGAAGGAAAACCGGAAAAAAAAAAAAGGACAA A A C C G G A A A A G G G G A C A A A G G A A G G G A G A A A A G A G A A G A G G G A G GAAACCCAAAAAGGAGAAAGGGAAGACCAGAGAAAGAAGG G GAA A G G A G G G G G GAAAGCGCCAAGAAAAAGAAGCCAACCAT C C A G G A A C A C C C A G G G G G A A G G C A G G G G A A A A G G G G A G C C C C G G G G A A G G A A A G G G A A G G A A A A GACCAAACAAAAGAAATXAA CAACGGCAGGGGAGGGGAGGCAAAAAGGAAAGAAGGGGAAAA G GAGCACAGGGGAAAAAACCCGCCAGAAAGCCAAGGCCGGGA AACCGGAAGAAAGGAAAAGGGGGGGGAAAGAGGAAAAA GAAA
 A A A G A A GAGGCCGGGGTAAGGAAGGGGAAAAAAGAGAAAGAG GAAAAGGGACGAACAGACAAAGGAAAGGGGGGAAGBATGGCC A A G G G A A G C C T T C C G G A C A A G G A G A G G G G A G G A A G G G G G G G G $G G C C G G A A C C A A G G A A A A C C A G G G G G G G C A A A A A G G A A A A G G$ CAGGGAAAAAAGAAGAGAGGAGAGGAAAAACCAAAAAAGGCC GAGGAAGGCCAACAGGAAAAAAAACCAAGGGGGGAAAGGGGG G G G GCCGGAAGGGGAAAAGGAAAGGGGAAACCAAGGAAAAAA G G G G G G A A A A A A G G A A A A A G G GA $\operatorname{ACC} C A A A G G G A A G G G G C C G G$ C CAAAGGGACAGAAGGGAACAACAGGAAGACCCCAAGGCAAA A A A A A A A A GAC GAAAAAAAGGACCAGAGAGGAAAGGGGAACAC A G G GAGGAAACCCCAAGGAACCAAAAAAAAAAGAACGGGGGG
 A A G GAAG A A A G G G GAGCGGAAACACAATGCGAGGCCGAGAAA A G A C G A A A G A G G G G G G A G G G G G G G C C G G G G A A G G A A C C A A A A A GACGAGACAGGAGAAAAAAAAAAGGGGGGAGGATTGGAGAAA $A C G A T T G G A A A C G A A A G G G G A A A A G G A G G G G G A A G G G G A G A G$ G G A A G A A A GAAACCGGAGAAAAGGGAAAAGAAAAAAACGGCC A A A A A A G G A A A G G G G A GAA A G G G G A G G G C CAA A G A GC CAAAA
 A A G GAGGGAAAGAGAGGGAAGAAACCAAGGCAGGGAAAACCC

GAAAGAAAGAAGAGGAGACCGGAAAAAAGGAAAGGACCCCBA A A A A G A A GCA A G G G G GAGGAACCAAAAC GAAGAAGCCAAGGGG G G G GCCGGGGGGAAAAAAGGCCGGCGGGAGAAACCCAAGGAA ACGAGAGGAAACGGGGAAAAAAGAAGGGGGAGAGGACAGAGA GGCCGGAAAAAAAAAAAAAAAAGAGGAGACGGGGACCCACAA G G A G A A T A A G A G A A G G G A A A G G G G C C G G T T C C G G G G C C G G A A
 AACCGGGGGAGGGGCAAAAGGGCATAAAAAGGAGAGAAAAAA A G A A A A A A G G A A C CAA $A \operatorname{A} A A G G G G G G C C A A A A C C G G A A A A G G$ A A A A A A A A A A ACAAAGAGGCAACCCGAGGGAGAGGGAAAAA G GAA A G GAGGGAAAAAGGGAGAACACGCAGCCGGCCGAAAGA A A G G G G A A $\mathcal{A} G A A G G A A G G A A G G G G G G A A G G G G G G G G A A A A A A$ G G G G A A G G G G A A C C A A G G A A GAACAGGAGGGAGGGAAAA G G G A G G G A GACTTGGGAAGCAAGGAAAAAAAGAAAGGAAAA G GAAA AAAAAGGGAAAGGAAAAGGAGAAAAGCCAAAGGAAAGGAACC AA $A G A G A C A A G G G G G G A A A A C C G G C C G G G G A A A A A A A A A A C C$ C C G GAGAAAGGAAGGGAAGGAAAAGGACACGGGGCCGAAAAA GACCAACCAGAAAAGAGGGGAAGGAAGAGAAGCCAAAAAAGG A G G A A G A A GAC $\mathrm{A} A \mathrm{~A} G \mathrm{G} G A G C A G A G G G G G G A G C C A A G A C C A A G A$ A A G G A A A A A GCAGAAGGAAGAAAATAAAGGGGGGACAAAGAG GAGGGAAAAAAGGGAGGAGCGGGGGAAGGGAAGGAAGGAAAG A GCCGGAAAGCCGGAAAAGAAGAGAAAAAAAAAACCAAGGGG A ACCGGGGGGAAAAGGAGGGGAAAAAAACACAAGAACAAAAA GAGGGAGGCCGAGACCAAAATAGGCCGGGAAGACAAAGAAAA C C G GCCAAAAAGAAGGGGAGGGAAGAGGAAGGACAAGGAGAC G GCAAAAAGGAACCAAGGGGGAGGCAGGAAGGCCCCAAGAAG A G GAGGGAGGGGAAGGAAACAACAAGAAGGGGACGGGAAGCC GAAAAAGGGAAAGGAAGGGGAAAAGGAAGGAGCAAGAACCBG GACCAGGAACGGATTTGGATCCGGGAGGTAACAAAAAGCACA $G G C C G G G A A G G A G A A G A C A A G A G A G G A G C C C A A A G A A A G G G G$ G GAGCAAGAACAGGGGGGGAAGAGAGGACCGGGGAGCAAAAG GAAAGGCCACCCGGAAGGAAGGAACCAAAAGGAACCGGAGAA AAAGGAAGGGAAAGAAAACCCCAAGGGGGAGAAAGGGAAGAG G G A A A A A A G G G G GACCCCAAAAGGGAACAAACCCAGAAGGAG G GAGGCGGGGAGCAGGAACCCCAGGGAGCCAGCAGACCAGAA A A A G A A G G A G G G A A A GCCA $\mathcal{A} G G G G G C G G G G A A A A C C G G G G A G$ ACAGCCGAAACCGGGAGAGGAAGGGGGGCCAGGAGGCCAAGA
 G G G A T T A G A GCC G G A G A A G A G G G G G G C C G G C C A A A A A A G G A A A A A A A A A A A A G GACAGACGGGAGAAAAAGGGGAAA GAACCGG A A A A A GAAAGAAGAAACCAGTAGGAAAAGGGGGGAAAGAGGG G G G G G G G G G G A A G G G G A A G G G G A A G G A A G A A G G G G G A A G G G A AGGACCAACCGAGGAAAGGAGGGGAAGGGAGGGGAAGAGGGG T T GAGGCAGGAAGGAAGGAGAGAAAACAGGAGGACCGBAGAA A A A A G GCCCCGGCCGGAAAAGAAGGGGGAGGACCAGAAAAAA
 G GCCCCGGGGAAAACCGGCCAAAAA GCCGGGAGGGAGGAGC G GAGAAGGAGAGGGGAGAGAAACGGAGGAGGAAAAAACAGGGG
 G G G G A C G A GA G G G G A A A A A A A A G G G G A A A CA A A A A G C C C A G G G G A A A A A A A A A C G G TAAGGGGGGGCCGAAACCGGGACAAAAA G GAGGGGAGGGAAAGGAGGGAAAAGGGAGGGGGAAAAAGGCC
 $G G C A A G A C C C G A C C A A G G C C G G G G G G C A A G G A G G A G A C A G A A$ CAGAGAAAAAGGGGCACCAGGGAAGGGGGGAAGGAAGGAAGA AAGGCCAAGGCCAAAAGGAAAAAAAAAAGGAAAAGGGGAGAA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGGGCCGGGGGG
 G G G GCCAAGGGGGGCCGGAAAAAAAAAAGGAAGGAAGGAGAA

A A A A A A A A A A G G G G GAGGC GAAGGAGGAGGAGAAAAAAAACA A G G A A A A A A A A G G G A A G GAAAAGGAACCCCAAAAGGG
GCCGGAACCCCAAAAAAAAAAAAGGAAGGGGAAGGAAAACC A A A A A A A A A A A A G G G GAAAAGGGGGGCCAAAAAAG GAA G GAAA
 G GAAAACCGGAAAAGGCCAAAAAAGGAACCGGAAAAAACAAA C C A A G G A A A A G G G G G G C C A A G G G G G G G G G G G G A A G G C C C C C $C$ G GAAGGGGAACCGGGGAAGGAAGGAAAAGGAAGGAAGGAAGAG
 AAGGAAGGAAGGGGCCCCCCAAAAAACCGGAAAAGGGGGGGG AAAAAAGGGGGGTTAAGGAAAAAAAAAAAAAAGGGGAAGGGG A A A A A A A A T T G GCC G G A A A A A A A A G GAAAAGGGGGGAAAAAA G G A A A A A A A A G G G G G G A A G G C C G G A A A A A A G G A A A A A A A A A A A A G G G G G G G G A A G G A A A A A A G G A A A A A A G G G G G GAAAA $A \operatorname{A} G \mathrm{G}$ GGAACCCCAACCAAAAAAAAGGCCGGGGAAAACCGGAAGGGG G G G G G GAA $A \operatorname{GCCA} A G G G G A A A A G G G G A A G G A A A A C C A A G G G G$ $G G C C A A A A T T C C G G G G G G A A A A A A G G A A G G A A G G A A C C G G G G$ G G A A G G G G G GAAGGCCCCCCAAAAAAAAGGGGAAGAAAAAGG $A A C C A A A A A A G G A A G G A A G G G G G G A A A A A A A A C C A A A A A A G G$ AA $\operatorname{A} G A A A A A A G G G G A A G G A A A A G G G G G G A A A A G G A A A A A A C C$ AAGGGGGGAACCAAAAGGGGAAAAAACCGGAAAAAAGGCCCC AAGGCCGGAAGGGGCCAAGGCCGGAAAAAAAAAAGGCCGGAA G GAACCCCAAAAGGAAGGAAAAGGGGAAGGAAAAAAAGGGGG G G G G G G A A A A A A G G A A A A C C C C G G A A G G G G G G G G A A G A G G A C
 CAAAAGGGCAGGAGGGCAGGAGGGCAAGAAGGGGGGGGGGGG G GACGAGGGGAACACAGAAGAAGAAGAAGGGGGGGGAGACAA G GACAGAAGGGAAAAGGAGAAGGAAGAAAAACACGAAGAAAA AAAGAGGAAGGAGAGAGGGGAGAGGACCACACGAAGACAGAA $G G A A G G A A A A C C C A A G A A G G A A A A A A G A G A A A G G G G G G G G G G$ GAAGAAACAGAAGGAGAAGACCAGAAAAAAGGAAAGAACCAA G GCAGCGGGAGGGGGAGAGAAGAAAACCAAAAGGAGGGTTCC G GCCAGCCGGAGGGAGAAGAGGCCAAGGGAAGCCGGCGGACC C C A G G G A C A A G G G G G G A G A G C C G G A G G G A G G A A G G G A A A A G G A A G G G G A G A G A G A C A A $\mathcal{A} G G G G G A G G G G G A A G A G A C C G T T X A A$ A G G G A A A A A A G G G G C C G G A GCCA G G G G G C A G G C A G G A C A A A G G G GAA A AC G G GAGGAAGGGGGAGACACAGGCAGAGGCAGAAG ACAGCCAGAAAAAGAGAGGGAGAGAAAGGAGGAGAGGGAACC

 C CAGAGAAAGAGAGAGACAGAAGAGGGGCCGGAGGGAAGGGA
 AGAAGGCCCCCCGGGGACAAAGGGGAAGAGAAGGGGAAGGGG GAACGACAACAAAGAAAGAGCCGGGAGGAGGGGGAAGAAAGA
 $G G A A G A A G A A G G G A A G A A G G G G A G A G A A G G G G G G C A A A G G A C$ A G G A A G C A A A A G G G G G G G A G C C G G G G A G G G A G G G G G A G G G A A GAGGGGAAGACAGGAAAAAGGGGAGGAAAAGGGGAAAAAGAA
 C C G G A A G G A G A GAC G G C C A GAAA A A A G G T T G G G A G G A G G G A A GAGGAAGACCGGAGACGAGAAGAAAAGCAACAAGGGAACGCC GAAAGGACAGAGAGACGGAAAAGGGGAAAGGAGGGGAAAAGAG G G G G G GCC G A G GCGGGAGGAAAAACCAGAGAGAGGAGAGGGA GAGGAGAAGACCAAAAGGAGCCGGGGAAAAGAGACCAAGAAA A A G GCCAGCCAAAGAAAACCGGGGAGGAGGGAAAGGGAAAAG C C G A G A C C A A G GA GA G GAGAGAAAAGAAAAGAAAGGCCCCCC GACCAAAGCAGGAAAAAAAGGGAGCCACCCGAAGGAGGAAGBG A A C C A G A A A GCCGAAGGGAGCCAAGGAAAACCGGAAACAGGG $G G A A G G A G G G A G G G C C G G A A A G G A A C A A A G A C G G G G G G C C G G$

A G GACCGGGGGGGGAGGGGAAAAAAGAACCAGAAGGACGGAG C C G G A A A C GAG GAAAACACCAGGGAGGACCGAAAAGGAGGAG A G G A A GAA A G A A G GCC GAG GAGAGAGGGAAGAAGCCGA G GAA
 AAAACAAGCACAAAAAAAACGGCCAGAGGAGAGAAAAGGGGG A A G G G A T T A G G A G A G G G G G A G G A A G G A A G G A A A G A G A A A A A A A GAGGGGGAGAAACCAGAGGCAGGAAGGGAAGACAAGAAAAA AAAAGAGAGAAAGGAAGAAGAAAGAAAGAGGAGAGGGGAGGAG A A A G A A G G G G A G G A G A A A A A A A G G G GAAAAA A A A A GAGGGGGA A GAGAAGAAGCAGGAGAAAAAAAGAGAAAGAGGGAAAAAGGG GAGGAGAAAGGGGGGGGGGGCCACCCAAGGGGGGGGAACCAA A GAGAGGAAAGAAGAAAGAAAAAAAAAAAAAAGGAAGAGGAA A A G G G A G G A A A G CAGAAGAGAACCAAGAAAAAGGAAGGGGAC GAAAAAAAGGAACAAAGGGGGGAAAAGGAAAGGAGGAGAGAC A G G A A A A A G GAGGGAGAAGAGAGGGGGGGGAAAAGACAGAAC GAGAAAGGGGCAAGAGGAAGAGAAAAGGGGAACCGGAACCGG G G A A A G G G A A G G G G A A GAA $A \operatorname{AGA} A A G A C C G A A A G A G A G G G G G G$ A G G GCCAAGAGAAGAGAAAAAGGAAGGGGGAGAGACCCAGAA AAGGAAGGCCAAAGGAGAAGGAGAGAAGGAAGCCGAGGACAG G G G G A G G A G G G GCC G G A A G GAGAAGAAAAAAGGGGGAACAAA AAAACCGGAAAAAAAAAAAAAGGAAACAGAAAAAAAAGAGGA ACGAAGAGCAGACACCAGGGACAGGGAAAAAACCGGAAGGAG CA $\operatorname{G} G A \operatorname{A} A A A A A G A G A G G G A G G A A C G G G G G G A A C X A C C G G G G G$ AAACGGAAAAAGAAAAAAGGACGAAACCGGCAAGGGAGAAAG A A A A G G A G G G A G G G A A G G G G A G G G A A G G C C A A G G G A A GAA C C GAAGGAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAACAAAAA A A A A A A G G G G T T G G G G G A A GAAAAAAGGAGAAGGAAAAACCC CACAGGAGAGGACAGAGGAGGGGAAAAAGAAAAAAAAA GAAAG $A G G G A A G G G G A G A A G G G A A G A A A C G G G G G G G G G A G G A G A A G G$ AAAAGGGGAGGGAGAGAAAAAAAAAAAAAAGGAAAAGGAGAA G GAAGGACAGAAAAGGCCGGAAAAGGGGAACCAACCGGAGAA GAGAGAGGGAGGGAGGAAAGTAGGGGAAGGAAGGGGGGAGAG GAAAAAAAGGAAGACCGAAGAGGGAAAGGACCAACCAAGGGG A GAGAGCCGGAGCCAGAGGAGAGGAAGAGGGGAAGGCCAAGG AAACGGGGAGAGACAGAAAAAAAAAAAACCGGAACCAAGGAA A C A A G G G A A A G G A A G G T T A A A A G G A G A G G A GA G G A A A A G G G A A G G GA $A \operatorname{GGA} A G G G G G A G A A G C C G G A A G G A A A A G A A G A G G G A G$ G GAAAAGGGGAGGAGGAAGAAGAGAAAGGAGGGGAAAAAGGG A A A C A C C C G A A CA $A \operatorname{GGGGGAAGGAGCCAAATAGAGAAGGAAAA}$ CA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A \operatorname{A} A A C \subset A G G A A G A G A A G G G G G G G G G G A G G G C C$ AAAAGGCCAAGGGAAAGGAAGAAAGGAACCAAGGAAGAGAAA AA G G A A A A A A A A G GAAAAAAAACCACACCCAAAAAAAA G GA G A G G G GAGGAAAGGGAAGGGGACGGGAGAGGTAACAGAAAGCC AAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGAACAAGAAGA A G G G A A A C A G G GAA $A \operatorname{AGGACAGAAAGGCCGAAGGGAAGAAGAG}$ A G G GCCCCGGACAGACAGAAAAAAGGAAGGAAAAGGCCGGGG AAAGGAAGGGAAGGCCAAAAGGGGGGAAAGAAGGAAAAACAA AAAAAACCGGGGAAAAGGGGAAAGACAGAAGGAAGGGGAGAA
 GAAAGGAAAGAAGGAAAAAAGAGGGAAGGCGCGAAGAAAAGB G GCAAA C A $\mathrm{A} A A A A A A A A A G G G A A A G G A C A C C A G G G A G G G G G G G$ GAAA A GAA $A \operatorname{A} G \mathrm{G} G A A A A A G G G G A A A A G G A G A G G G A G A C G G A A G G$
 G GAGGGGGAAGAAGGGGAAAAAAAAAAAAGGGGGACAAGGGG A GAGAAGCACAGGGGGGGGAAAGGAAGGAAGGAAAAAGAAAG ACGGCAGGAGGGAACAGGGGCCCAGAAGCCCCAACCAAAAAA A GAA $A \operatorname{GG} \operatorname{GAAAAAGAAAGGCCAGCAGAGAAAGGAAAAGGGGAA}$ A A A C C C G G A C A A A A A A A A A A G G A GACA G GA GA G G G G T T G G G G AAAGAACAGAGGGGAGGGAACAGGGGGGAAGGAAAAGGCCGG

G GAAAGAAGGGGCCAAGGGGAAACGAAAATCAAGGGGGCACA A A A G A C A G G G G A A G GAGGACAGGGAAGGAGGGAGAAA
A GAAAGGGAAGACCAGGAACCAAGGAGAAGGAAAGGGGAGG GGACAGACAACCGGAGACACCCGGAAAGAAGGGGAACAAAAG GAGAGGAGGGAAAAAGGGCCGGTTAGGGAAAGAGGGAGACGB
 G G G G G G G G A T A G A GAAAAA A A A G A G GAGGGGGAAAA GAAA G G G GAGCCGGGGGAAAAAAGTTAGAGAGCCGGCCAGCAAGGGGG AA GACCGACAAAAAAAAAGGGGAGAAGGAGGGGAAGAGAAGA A A G G G G GAAAGGGGGGGGGGGGAGAGGAAAGAGGCAAAGGGA A GAA A A G G A A G GAGAGGAAGAGGGCCGGAGAAGAAAGAAGAA GAGAGAACAGAAGAGGAGAAAAGGAAGAGAAAACAAAAAAAG $G G A A G C G G A G C A G G G G A G A A G A A G G A A A G G A A C A A G A G G G G G$ G G G GAA $A \operatorname{GAAA} A A G G G A X A G G G G G G G G G A G G A A A G G A G G G G G$ T TACGGAAGAGGGAACAGAACCGGAAAAAAAAGGGGAACCGG AAGGGAGGAAGGAAGGAAAAGGACGGAAGGCAGAAAGAACAG A A G GAA $A \operatorname{GAAA} A T A G A A G A A G G G A G G A G G A G A A A A A A G A T C C$ A A A G A C G A G G G G G G G G C C A G A A GAGAAA GATTGGGGGGAGAA $G G C C G G G G C C G G G G G G G G A A A A A G G G G G A G G G A C A A G G A A A A$ C C G G A G A G A A A C G G G G A G G G A G A G G G A GAAAA $A$ A G G G G A A T T G GAAACAAGACCAAAAAAGGGGGGGAGGACACGGGGAGBAGA ACGAAGGAAGGGAAGGCCGGAAGGGGAACGGGCCAAGGCCGG C C C C G G G G A G G G G G G G A A GACAAAAAAAGGGGGGGAA GAC G G A A A A CAGAAGAGAAGAACCAGCTACCGAAAGGAAAGACAAGG AACCAAGGAGAAAAAACCAAAGTAAGACACCCAAAGGACAAC A G G G G G G G G G G GCCAGCCACAAGACCGGGAAGACAAGAAAG G AAGGAGGGAGAAACAACCAAGGATAAAGAGAAGAAAGAACCA A GAAAAAGGGCCCCGGGGCCAAAAGGAAGGAGGGAACCCAAA
 AAGACAAAAAGGAGGGGAGAAACCAAGGGAAAAAAAAAGGAA AAAAAACCGGAAGGAAAGGAGGCCAAAAAAAAGAGAAAAAAA GAGAGAAAATCAGGAAGAGACAGAAAGGGGGGGAAATTGGGG GAAAAGGGAAAAGGGGAAAAAAAACCAAGGAAACCCGAAGAG AAAAGGGGCATTGGGGGACAGAAGAGCCAAAGAGGGAGCACC A A A A A A A A A A C C A A A A CA G G A A A A GAGGGAAAC GAA G GA G G G G G G GAACCAAGGAACCAAAACCCCGGAGGGCAAGGGGACCGG G G G GAA A GAA $A$ A A A A A A G GCCCC GAAAAAACAAGGGGAGGGGA $C \subset G G G G A A C A G G G G A A A A A G G A A A G G G A G A A C A A C C G A A A G A$ G G A G A G A C G G G G G G G G G C G G G G G A G G A A A G G A G A A A A A C C G G A A T A A C G G A C G A G G A G A G G A G G A C G G G G G A G A A G A A C C A G G A $A G G G A A G A G G A G G G G G G A A A G A G A G A G G A C C C A A A G G G A A A A$ G G G G G G T A C C A A G A A A T A A G GAGAAAACGGCCCAAAGGAAAA AAAAAAAAGGAAAGGGCCCCGGGGAGAGAGAGGGAAAAGAAA
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G G G GAAAA $A$ A A A A A GAA A A A A A GACAA G GAGGGGGAGA G GA G GAGGGGGAAAGGAGGAGAAAGGAGAAGGGGGAGGGGGAGGGG A A A A A A G G A A A GAAGGCCGCGAAGGAAGCCAAAAAAAACGCC G GAAAAAAGAAAGGCCAAAACCGGAAGAGAGGCCAAAGAACC G G G GA $A \subset C G G G G A G G G G G A A G G C C A C G A A G G G A G G G G A G G A G$ G GAAA AAAAGCCGGAAGACAGAAAAGAGGGGGAAGAACAAAC A A A A G GAAAAAAAAAGGAGGAAAAAAGGGGGGAACCAAGAGG A A G G G A G A GAAACACAGGAGGGACGCACGGAAAAGGGAGGGG GAAAAGGGGGGGGGAGGGAAGGAAAAGAAGGGAAAAGAAAGG G G GAAGAACCGAGGAAAAAAAACCAGGAAAGAAGAGAGCCGA
 A G G A C C A A G A G G G G G G G G A G A G G A A A C C G C A A A A G G G G A C G G G G A G A A G G A A A A A A A G G A C G A A G A G G G G A A C C G G G G G G G G G A A G C A G G A C A A C C C C A G G G G G G G G G G G G A A G G G A G G G G A G G A C G GAGGGGGGAAAGGGGGGGAAACCAAAAAAGAGAAGGAAAAA A A A A A A A A A A A CAGCAAAGGGGCAAGGGAGAAGAGGCCAACAC G G GAA $A$ G A A A A A A A GACACAGAGAGAAGAAACAA GAAAAAC G GAGGAAGGGGCCGAAGGGGGGGGGAGAGGGGGGGAAGAAAAA AACACCGGCCAAGGGGCCGGAACCGGAAAAAAAAGAAAAAAA G G G G G G C C A A G G G G A A G G G G A A G G A A A A G G G G G G A A A A A A C C G GAAAAAACCAAGGCCGGGGAAAAAAAAGGAACCGGGGGGGG G G G G G GAA $A \operatorname{GA} A C C C C G G G G C C A A G G G G G G G G C C G G A A A A G G$ G G A A A A A A C C G G A A G G C C G G G G G G G G A A A A G G G G A A A A A A A A A A A A A A G G A A A A C C A A G G G G A A G GCCCCGGAAGGAAGGAGAA G G G G G G A A G G G G A A G G G G A A A A A A A A G G G GAAAAAAACAAAAA G GAA $\operatorname{G} G C \subset A A C C A A C C C C A A A A G G G G G G G G A A G G G G G G G G G G$ A A A A A A A A G G G G G GAACCAAAAAAAAGGAACCAATTAAAACC C C G A A G G G GAA $A \operatorname{CC} C A G C A A G G A G A G G A A C C G G G A A G C C G G G G$ CAAACAAACCCAAAAAAAGGGGCCAAAAGGCCCCCACCAGAA AAAAGGAAACAGGGGGGGAAAAAAAGAAGGAACCGGAGAGGA A A A A A A A A G G G G G G A A A A G G C C C C G G A A A A A A C C A A A A A A A C A A A A A TAAAACCGGGGGAAAGAGGAGAAGGCCGGGGAAAACA AA $A \operatorname{GGG} \operatorname{GG} \mathrm{G}$ CAAGAGGACCAGTACCAAAAAGAAAAGGGGAGAG G G G G G G G A A A A A G GCC G G G GACCCAGGAAGAAAAGAAGAGAA T T A G A G A A A A A G G A G G G G A A A G A GAGGGAAAAAAGAAAAA G $A$ G G C C G G G G A A A A A A G G G G A A G G G G G G A A G G G G C C A A G G G G A A AAGGAAGGAAAAAACCGGAAGGAAAAAAAAAAGGGGGAAAAA GAAAGGAAGGAAGGGGAGACAAGGGGGGCCCCCAGGAAGGGG A A A A T A GCGAAACCGGGAGGAGGGAAAGCCAAGGGGAACCBG A ACCACCCAGAAGAAAACGGGAAAGAGGGAGGGGGGGGAAGG C G CA $\operatorname{C} G A C A A C C G G A A G G G A A G G A G A G A G G C A A A G A C C G G C C$ G G GA $\operatorname{G} G \mathrm{G}$ GAAAGGGGCCAAGGAAAAAAAGGAGGAAGAAAAAAC
 C C A A G G G G A A C C G G G G A GCCGGAAGAGGACGGCCGGGAAGAG A A G G G G G G C A C C A A G G A G G G G G G G G G A A G A A A G A T T A A C C G G A A A G A A G G G A A G A C G G GAGGGGAAAAAAGGAAGA GAGACAAA C A A A A A G G G G G G G G A A A A G G G G C C A A C C G A C G G G G G A C A G A A A GAGAAGGAGAAAGACGGCAGGGAAGGAACGAGGAACAAAGA $A G C C A G G A A G C C A G G G G G A A A A G A G G A A A A G A A G G G G G G G G A$ ACGGAAGAAGAACAGGGGAAGGGGAACCAAAGAAAAAGAGAA A G A A G A G G G G G G A A A A G G G G A G G G A G A A C A G G A A G G A A G G G G A A A A A A A A A A G G G G G G A A G GAAAAAAGGGGAAGGGGAAACAC A A A A A A A A A C C C A A G G A C G G G G A A G G A A A G G A A A A A G G T T G G AAGGAAAGAGACAGGGAACCAGAAGGGGCCAAGGGGGGAGAG AAAAAACCCCGGAGGGGGAAAAGCCAAAAGGAGGGGGGAGGG A A A G A G A A A A A A C C G G G G G G G A A C C C GAAA A GCC G GCC G G C A $G G A A A G G A G A G G A A A A G A A A G G G G G G C C A A A G A A G A A A G G G G$ G G G G A G G G A C G A G G C C G G G GA G A C G G A A A C A G G G G A G G G G G G $C \subset G G G G G G G A G G C C G G A G G G G G A A A A A A A A G G A G G G A A C A A A$

G G G G G A T TAGAAAAGGAAGGGGCCAAAAAAAAAAGGGGGGGG A A A A GAGGGGAGGGGGAAAAAAGGAAAAAAGGGGACG
$G C C A A G G G G A A A G C C G A G A A A G G T A A G G A G A C C A C A A C A A A$ $G C A A C C A A A G G G G A A A A A A C G G G G A G A A A A A A G A A A G G A G C A$ G GAAAGGAGACCGGGGAACCAAGGAAAAGGAAAAGGCCAAGA C C A A A GAA $A \operatorname{GCCGACCAAGGGAAGGGAAAAAAAAGGAAAAGA}$ A G GAGAGAAAGAAGGGAAAGGAAAGGAGCCCCAGAAGAAAAA AAGATACAAGGGACAGGAAAGGCCGGAACCGAGGGGGAGGAA G GAGGGGGAAGGAAGGGAGAAGGAAAAAGAACGGAAAAAAAA G GGGCCAAGAAAAGGGGAGAGGAAAAAAAGGGGGGACAAAAA A A G G A A G A G G A A G G G G G A G A G G GAAAAAAAGGAGGAGAC AAA G G G G G G G G G GAA $A \operatorname{G}$ GAAAAGGAAAAAAAAAAAACCAAAAAGAA A A G G A A G G G G G G G G G GCCAAAAAGGGGCCGGAAGGAACAAAAA AAGGGGGGAAAAGGAGGAGAAGAAAAAAAAACGAGACAAGAC CAAAAAAAAAGGGGAGAGACGAAGCAGGGGAGGGAAGGAGGA G GAGAGAGAAGGAACCCCGGGGAAGAGGAGAAGGGGGGCAAA A A G G G A A A G G G G G GAACCGGGGAAGGGGAAGGCCGGAAAAAA
 G GAAAACCAACACAAGGGGGGGTAGAGGGGAAAAGGGGAAAAA A A G G A A A $\mathcal{A} G G A A G G G G G A A A G G A A G G G G A A G A C C G G G G A A A A$
 GAA A G G GAGAGGGGAACCAAGGGGGGGGGGGAGGAGAAGGAG G GAAAAAGCCAAGAGGGGGGACAAGGAAAAAAGGAAAAAAAC A CACA $A \operatorname{AGGA} G G G G G G G A A G G A A G G G G G G C C G G G G A G G A A A A A$
 AGGAAGAGGGGGGGAAAACCCCAAGGAGGGGACCGGAAGGGG G G GACCCCAAAAAAGGAACAGGACGAGAAGGGAAAAGGGGGG $C \subset A A G G A G G G A A C C G G C A G A A C A A G G A C A A A A C A A G G G T T G G$ G GAAA ACCGGAGCCCCGGAAAAAGACAAGAGAGAACGGGGGG G GACAAGGAGGAAGGAGGAAGAGAAAACGGAAAAAGGAGGGG A A G A A G A C G A A A G G GAA $A \operatorname{AGGGGGGAACCGGAACCGAAGAGGG}$ G GAAGGACGAGGGAGGGGAAGGAGGACCGAGGGGGGGAAAAG G G GACCACGGGGAACCGGGGGGGGAAAAACGACCAGGAAAAAA GAGACAACAGCCCCGGAGGAGGGGGGCCAGACAAAACBAGAC GAACAAGAAAGAGACCGGGGACGAAAGGACAGGAAACCAGAA A C G G G G G A A A A G G G A A G G G G A A G G A A A G G A A A G G G G G G G G A A
 G GAGAAAAAAACAAAGCCGAGGAACCAACCGGGGAGAAAAAAA
 A ACAAAAGGGACAGAGAAAGAGATAGCCGGGACCBGAGAGAG A GAGAAGAAGGGGGAAGGGGAAGGAACCGGGAGGAAAGACAA G GAGGGGGAAAGCACCAAAAAGCCAAGGGGACAGACAAGGCC GAGGACGGCCCAAAACAAGGAAAAGGGGGAAGAGAAGAGGGG C CATGGAAGGAAAAAAGGAAAAGGCCAAGGAAAGACAAAAGG GACCGGGGAAAAAAAAGGGGAAAAAAAGAAAAGGAAAAGGGG GACAGGAGAAGAAGACGGAGAACCGGAGGAGGGAAAAAAAAA A A GACCCCCCGGAACCACAGAGAGAAGGAGGGGGAGAAAAAA ACAGAAAGAAAAAGCCGGAACCGGGAAGGAAGCCAGGGAGAG A G G G G G G G G G A A G G G G C CA A A A G G G GAAAA A A GA GA A A A A A G A G GAGGGGAAGACCAAGGAAGGAGGAGGGGAGGGACAAGGAC CAGGAAAGGGAACAAAGGGAGAGGAGGAGGAAAACCGAAAAA AAAGAAAAAAAAGGCCGGAAAAGGGGAAAGGAGGAGTAAAAA
 $A G C C G G A A G G A A G A A A A A G G G G G A A G A A C A G G A G G A G A A A A A$ A G GA G GAAAA $A \operatorname{A} G C \subset A A A A A A G G G A A G A A A A C A G A A A G G G G C G$ G G A A A A A A G G A A G A G G A G G G G G A C G G A A A A A G GAACA GA A A A C CAGAGGACAGAGAAGAGGGAAGGAGGGAGGAAAAAAAAAAAA G GAGAAGGCCAGGAAAGGGGGGGAAGGAAAGGGGGGACAAAA AGAGAAAAAAGAGGGAGGGGAAAAACAAGAGGGGGAGACACC

G GAGGGAGGAACACAGCCAGAAGGGAGAAGCCGGACAAAGAG G G G G G G C C G G A GAA $A \operatorname{GGGGGAA} G A A G A A G G G G G G A A G A A G A A A$
 GGGACAAAAACAGGAAGGGGGAGGAAAGGGCCAAAGGAAAAG A GAAAGCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGAAAAA A A A A G A A A G GAGGGGAGGAGAAAAAACCCCGGAAAAAAGGAA AAAAGGGGGGGGAAGGCCCCAAAAAAAAAAAAGGCCAACCBG AAAAGGAAGGGGGGCCGGGGAGACGGAGGGGGGGAAAAGGGG A A A GACGCAAGATTAGAAGGCCCAAAAAAGGGAAAAAAAAAA GAAAAGAGAAGGGGCCGCGGAAACGGAACACAAGAAAGAAAG GAGAGGGGCCGGAAGGCCGGCCGGCAAAGGAAAAAAAAGGCC A A G GAGAAGGCCAGAAAAGGCCAAAAGGAGGAA GAA G GAGGGA A A G G G GACA $A \operatorname{A} G A G G G G A G A G A G G G A A G G G C A A G G G G C C G G G G$ G G G G G GA $\operatorname{G} G \mathrm{G}$ GAAAGACAGAAGGGGCCGGGGGGAGAACCCCC GAGGCCACACGAAAAACGCAAAAAAAAAAGAGGGCAAGGGAG $C \subset A A A C G G A C A A G A G G G A G G A C G G A A A G G A G G C C A G G A G G C C$ TAA A A A G G GACCGGCCGAAAAAGAAAGAGGAAGGAAGAGGAG A A A A A A A A A C G G G GCCGGAAAAAAAAGGAGAGGGGGGGGGGG G G G G GAGGAGAACAAAGAAGAAGAGGGGGGTAAAAGAAAGAA
 C C A A G G T T GA G G A A A A GAGGGGGGGGAAAAAAAACAGA G GA G G G GATTACGGAAAGAAGAAAACCCAAGGGGGGAGAGAACACC G G G G A A C C A A C C A A G G G G A A G G G G T T C C G G G G A A G G A A G A G G A A A A A ACCGGGGAGACGGAGAAAACCGGAGGGAGAGGAAGAA AAACGGAAAAGGGGGGCCAAGGAAGGAAAAGGAAAAGGAAGAG G GAACCGGAAGGGGAAGGCCCCAAGGGAAAAAAAGGAAGABA A A G G G GAGAGGGAAGGGAAAAGGAGGGGAAACAAAAGGGGAA G G A A A A G A G G G G G G A T G G A C G G G G G G A A G A A A G G G G G G C C C A
 G G A A A A G G A A A A G GAA A G G G G G G G A A A A T T A G G GAAC C GA G A A G G A A A A A A A G G T A A C A A GAGAGGAAGGGGCAAACCGBAGAC G G G G G GATAAGAAAGGAGACAAACCAAGCAAAAAGGACAAGA A T GAGGGGAATTGACCGGACAAAAGGGGGGAAGGAGAAAA GA A A A GAGGGAGAAGAGAAAAGAGAACACAAGAAGGGGABAAAA
 $G G A A A G G G A A A A G G G G G G A A A G A C G G A G A G G G G G A A G G A G A A$ GAAA $A \operatorname{A} A \operatorname{A} A \operatorname{A} A C A G A A G G G G C C A G A A A C G G G G A A G A G G G G A G$ AAAAGGGGAAGGAAAAAAAGGGGAGGAGAAGGAACAGGAGAG GAGAGGCAAACAGAGGAGGGAAGGCCGGAAGGAAGGGAGGAG G G A G A G G G G G G A C A A G G A G G G G G G G G A G A C G GC C A G A A C A A G GAGGACCACACCGGGGAGAGAGGGCCAAGGCCAGGAAGGGGG
 GAAAGAACGGAAAAGGGGCCGGAGGAAGAAGAGGAGAAAAAA G G G G A A GCGGAAGGAAGAAAGAGGGAGGCCAAAA GGCCGGGG
 G G G G A A A A G G G GAAAAAAACCCCAAGGAAGGAAAAGAAAAAGG A A C C G GAACCAAAAGGAAAACCAAGGAAGGGGAAAAAAAAGG
 G GCCAAAAGGGGAAAGGAGAGGGGAGAAGAAGACAAGACCAAA C C G G A A C C A A G A A G G A G G G A G G G G G G C C G G G G A A G G G G G G C C G G A A A A G G G GAGGGAAAGGAAGGAAGGGAAACAGACGAAAGA G G G A GAGAAAGGGGGGAGGGACGGGGCCAGGAAGA GAAAGAG A A G G A G G G G G A C A G A A A A G G G G G A G G G G A A C C A A G G A A G G A A G GAAGGGAGGAAGAAGAAGAGACAGAAAAAAAAAAGCCACAG CAGAAAAAAGAGAGGGGGAAAAGGAAGGCAGGACAAGGAAGG G G A A G G G G A A A A G G A A G G A A A CAGCCGGCCAAAAG GACAGAC
 A A A A A A G G G A A G C C A A G G A A A GA G G G G G G A G G G G A G G G G A G G A G GAAAAGAAAGGAAAAAGAAGAAAAAAAGAGGGGAGAAAGG

G G G G G G A A G G G GAGAGGGAAAGAAAAAAGGAGGGGGGGABAA A A A G A GAGAGAGAGGGACAAAAAAACGGACAGAGGGC
A A GAGGAGACAGAGACAAAGGAAGGGGCCGAACAGGGGAAA $C A C C A A G G G G A A G G G C A A C A A G G A A A A A A A G G G A A A G G A G A A$ G GAAGGCCGGAAAGAAGGAGAGGGGGGGGACCGAAGAAAGAA
 AA $A$ A $\operatorname{A} G A G A C C C C C G A A G A A A G G G A A G G C C G G A A A G A A G A A G$ GAGGACGGAGGACCAAGGGGGGAGAAAAGAAGGGGAGAACAG $A G G G A G G A G G C C A G G G G G G G G G A G G G G G G A G A G G A G A G A G A A$ $C C G G A A G G G G C C G G A A A G G G G G C C G G A G A A A A G G T T G G G G G G$ G G G GAA $A \operatorname{GA} A A A C C G G A A G G A G A G A A A A G G A A G A A G C A A A A G$ G G GACCAAGCAAAAGGGGGGAGACGGGACCCCAGGGGGAAAG
 $A G A G G A A C G G G G A A G G A G A G A G A A A G G G A A G A A G G A G G A G A A$ $C C G G A A G G A A A G G A G G A G G G A A A A A G G A C C G G G A G G G G G G G G$ $A G C C A G A G G G A G A G C C G G A C A G A G A A G G G G A G G A A A G G A G A A$ ACAGAAAAAAGGCCGGCCAACCGGGGAAAAGGAGBAAGAAGAA A GAGAGAAACGGAGAGGAAGAAAAGGGGAGGAAAAGGACCBG G GAAAACAGGGAGGGGAGAGGGGGGGGGGGAAGGGAAAAAAG A A G G A A G G A A G G A A G G A A A G A G G G C A G A A C G G G G G A G G G G G G A GAGAAGGAAAAAAAAAAGGGGAAAAAAAAGGAAGGAAAAAC
 G GAACCGGAAGGAGGGAGAAGGGGAGGAAGGGGGGGAAAAAA A A A A A A A A $\mathcal{A} G G G A G G G A G A A G G G G G G G A C C G G A G G A G A C A A A$ A A G G A A G G G G A A A G G A A G G G A G A A GAA A G G G G A G A A GAA A G G GGCAAGAGGGGGAGGAAAGAGGGAAAGGACCCGGCCAAAGGG A GAAA $A \subset A A G A A G C A G C C G A A A A A A G G G C C G G A A G A G G G G G G$ G G G GCCGGACAGGGCAGGGAAAAGGGGAAAGAGGCCGATTCC G G G G G G G G G A A A A A A A A G A A GA GAT TAA A A G G G G G G G G GA C C T TACAGGAAGGGAAGGGGGGAAAACCAAAAAAAAGGAGAAAA A A A A C A G G G G A A A A G G GAACA G G A A GAGGGCCAA G G G G G G G G A GAAGGAAAGCAAAAAGGAAGGAAAGAGGGAAAAAACCCCAA $C \subset C C G G G G G G G G G G A A A G G A C C G G G G G A G G A A C A A G G A G G A G$
 AAGGAACCCAAGAAAGAAAAGGAGAACCGAAGGGCCAACCBA C CAA $A$ A $A G A A A A A A A A G G G G G G A G A A A A A A G G G A A G A G A C B G$ $C C A G G A G G A T A A A A G G A A G G A G C C C C G G A G G A A G A G G A A G A G$ GAAGAAAAAGAGGGGAAAAAAGGAGGAGGGGGCCAAAGAGAA G G GAA $A \operatorname{CA} A A A A G G A G A A A G A A A A G G G G G A C A G G A A G G A A C B G$ C CAAAAAGGAAACCGGAACACCGGAAGGAAAAAACCGAAAGB AAGGAAAAAAGGGGGGAAAGAAGAGGACAAACAAGAAGAGAG
 GAAAAACCAACCAAGGAAGGGGAAGGAGGAAAGAGGAAAAGA A GAA A G G A G G A A A G G G G GCCAGGACGAAGGGACAGAAGAA GA
 A A A A A A A A G GCCAA $\mathcal{A} G G \operatorname{A} A G G G A A G A G C C G G G A A A A G G A G G A A$ G G A A G G A A A G A G G G G G G G A G A A G A G G A G G G G G G A A G A A G G G G G G GAAAGACAAGAAGGAAGGAAGGCAAAACAGGGGGAAAGGG GACCAAGGGGAAAGAAGGGAAAGAGGACGGAAGAAACBGGAA G GAAA $A \operatorname{A} A A G A C A A C C A C A A A A G G G G G G A A A A A A G G G G G G G G$ AAAAGGAAGGGGGGAAAGAGGGAAGAAGAAGGCCGGAAGAGG G GAA A G G G A A A G G GAAAA A G GA GAGGGGGGGGGTTAAGGCCCC GGCCAAAAAGCCGAGAAGGAGGGAAAGGGGAAAAGAAAGGBA $A G G G A A G G A A A G A G G A G G G G C G G G A G A G A A G G G G C C G G C C G G$
 A G GAGGGGCCAAAAAGAGAGCCGGAGAAAGCCGGACCCGGAG A G G G A GA G A GAGAAAAAAGGAAGGAAGGGGCGGAAGGGAGAA A GAACCGGAAAAGGAAAAGGTTAAAAGAAAGGGGAGGGAGAA GAAAAAGGAAAAGGGGGGAAGGAGGAAGGGCAAATTACGAGG

AGGAACAACCTAGGGAAAAGGGCCGAAACCAAGGACACGGGG A A G G G A A G G G G A A G G GCC G G G GAGAGAAGAGAAACCGBACAA GAAGGGAAGAAAGGAGAGGGAAAAAAAAAGCCCAGGAAAAGG $C G G A G G A A G G G G G G T T C G C C A A G G G G A G G G A G A C C C C C C A A A$ A GAGAAGGGAGGCCAAAAGAGGAAATGGGGGAGGGGAAAAAAA G GCCGGGACCGGAAGGAGGAGGAGGGGAGGAAAGAGGGAGGG AACCACAGGAAAAGAAAGGGCAACAAGGGGGAAAGGCAAAAAA A GAGCCAGGGAAAACCGGCCGAACGGGGGAGCGAAGCCAGAG G GAG $A \operatorname{GGG} G A G A A G A A G G G A A G G G G A A G G G G A A A C B A G A C C B G$ G GAGGGAAGACAGGGGAAGGGAGAGGTTAAAGGGACCCAGAA A G G GAAAAGGGGAGCCAAGAGAAAGAAAAGGGGAAGGGGGGG GAAAGGGGAGGGAGAAAAGAAAAAAAGGAGAAAGAAAAAACG C C G G G A G G G G A G G G G G G A A G G G A G A G A A A A G G G G A A G A A G G A AAAAAGAAAACAGGAAAGAGACACAAGGAGCCCCAAGAGGCC
 GGCCGGGGAAAAGGGGCCAAAAGGAAGGAAGGAAACAAAGAG AAACGGAAAGAGAAGGAGAAGAGGGAAACGCCAAGGGGAGCA GAAGAGAAGAGGAGGGGGAGAAACAGAACAAAAAGGATAAAA AAGGGGAGCCCCAGCAAAAAAGAAAAAAAAGAAGAAAGAA GA AAGGGGAACAAACAGGAAAAGACCGAGAGGCCAAAAAAGAAG $C \subset C A C C G G G G G G G G G G G G A A A A A C G G G G G G A A A A G G G A A C G A$
 G GACGAGGGAAGGAGAAGCAAGGGGGGGGAGGAAAAAAGGCC
 C C G G GAAA A G GAAA A G GAAAAAAAACCGGGGCCAGGAAGAGAA
 G G G GAA $A \operatorname{GCC} G G G G C C G G A A A A A A C C A A A A G G G G G G G G C C G G$ G G G G A A A A A A G GAAAAAAAAAGGGGAAGGAGAGAAA GAGAGAA G G G G A A A C G A A G G G A G A A G GAGGGGGGAGGGGAGCAGAAAAG GAAAGAGGGGAAGACAGGAAGGAAAGGGGGAGAAGAAGAGAA
 G GAAAAAGGGGAGAGGGGACGGGGGAAAACGGAGGGAAAGCC
 G G A A A G G A C C A G G G C C G A G G A A T T G G A G G G G A G G G G G G G G G G C C CA $\operatorname{CA} A G G G G G G C C A A A A A C A G A A G G A A A G A A G A A G A G A C G G$ GAGGAGAAAAGGGGAACCAGGAGGGAAGGGGGGGGGCAAAAA AC GAA A G GAGGGCAAAGAGGGGAAGGGGGGAAAAAAGGAGAC GGCCAAAGAGAAAGAAGGGAAACCAACGGGGGGGGCAAAAAA A A G GAGAGTTAGAGACAAAACCAGAGAAAAAGGGAAGAAGGG G GAA A A A C A GAGGAGGGGAACCAAAAGAGGCAGAAGAAAA G G $G G A A G G G G G G A A A A A A A A G G A A A A A A G G G A T A A G A G G G A G A A$ A GAA $A \operatorname{GCC} C G \operatorname{CA} A A G G G G G G G A A G G G G A A C A A A A A G G C C G G T T$ ACAAGGGGACGAGGCCGGAGGAGGGGGAGGGGAAAAAAGAGA GAAGAAAAAGAAGGCCAAGGAAAAGGAGGGATGAAACAAAAG A A G G G G G G G G G A G G A G G G G G G A A A A A A $\mathcal{A} A A C G G G G A C G G A B A A$ A A A C A A G G GAAAAAGGAGAAGGGAACGGACAGCACCAAGGGG GAAAAAAAAAGGGGGAAGAGAGAAAAAAGGGGAAGGGGGGGG AACCGGAAGGCCAATTAAAAAAGGGGCCGGAAAAAACCAAGA G G G G G G G G A G G GAACCAAGAGGGGCAAGGAAAGGGGAAAAAC G G G G GACCGGCAGGAAGGGGAAGGAGGGAAGAGGAAGGAGAA A GAAGGAAGAACCCAGGAGAGGGAAGAAAAGGAACCAAATAG AGAGGACAGAAAGGCCAAAGACGAAAAAGAAGAGCCAAAAGA
 AAAAGGGGGAGAAAAAAAAGAGGGAAAGGGCACCCCAAAAAG G G G GCCAGGGAGAAAAAGGGGGAGGGAAAGCCGGAAAAAGAA G G G G G G A G GAGAATAAGGAGAGGGATGGCCGAAAGAGAGACA GAGGGGAAAAAAAAAAAACAAACAGGAAGAGGGGAGAA G G GAA
 G G G G GA $A$ A G G GAGAACAGGGGAGGAGGGAAGAGAAAGGGAGG

GAGGCCAAGGGAAAAAGGAAGGGAGAGGAAAAAAGAAGGCCA G G GAGCACAAAGCCGGGGGGCCAAGGAAAGACGGGGC
ACCGGAGAAGAAGGGGGAGACAGGGGAAAAAGAGAGGGGCC A GAGAGCCAAAAGGAAGGAGGGGGGAGGAAGGGAGGCAGAAG AACCGAGGAAGGAGGGGGAAAAGGAAGGGGGGAAGGAAAAAA AAAAACGAAAAGGGAGAAGGGAAGGAAGAAGGACAAGGAAGG A GAAAGACGAAGAAGACAAACAAAAGGGAAAACACACCAAAG AAGGGAGAGAGGAAAAGGGAAAAAGAGGGAACGAGAGAAAAG GAAAAGAGAAGAAGGAAGGGAGAAAAACAGAGGGAAAAAGAG G GAGGAGGAAGGAGGACCGAAAGGGAGAGAAAGGAGGAGAAG G GAAAAAGAAGGGGAAGGAAAGGAGGAAGGGGAAGAGACAAA AACCGACCAAGGGAGGCCAAAGGGAGAGGGGGGGAAGGAGGG A A G G G G G G GCAAAAAGGGGAAAACCGAAGAAGGAAGGGCAGAG A GAGAAGGGGAAAGGAAAGGGGCCAAGAAACAGGAGAAAAAG $A C A G G G A G C C G G A A G G A A G G G G A G G A G A G G A A A A A A A A A A A A$ AGGAAAGAACGGAGAAGGAAGAGGAGAAAAAACCCCGAGAGA
 G GAA $A \operatorname{GAA} \mathrm{~A} G A A G G C C C C G A A A G G G G A G C A G G A A C C A C A A G G$ $G G A A C C G G A A A A A G G G G G A A A A A A G A A G G G G G A G G G G G A A G A$ CACC G G A A A A A A A C G G G G G GAGGGGGGAGGAGGGGAABAA G G A A G GAA A G G GAA $A \operatorname{ACC} C G G G G G G A A A A G G A G G G G A A G A G G G G G$ A A G GAAAAAAAGGGGGAAGAGAAGGGGAAGGAAA GAAAGGAA AAAAGGGGGAAACCCCGGGGGGCCCCAACCGGGGAAGAAAAA GAAGGAAAAAGGGGAAAAGGAAGGAGATATAACCGGGGCCGG G GAAGGCCAAGAAAACAGACGGGAGGGACCAAGBAAGGGGCC GAAAAACAAGAAACAGAAAAAGAACCGGCCAAAAGGAAGAAG $C \subset A G G A G G A A G G G A A C G A C C A A G G A A A A A G A G G G A A A A G G T T$ G GAACCAAGGGAGAGAGGCAACGAGGAAGGGAAACCGAGGGA G GAA A G G G G G GAGGAACAGACCAAAAAAAAAGAGGGAGAAGA AAGAGAAAAACCGAAGCCAAAAGGGAGAGAACGGAAGGAGAG $C \subset A G A G A G A A A A T T G G G G C C A A G G A G A A G A A A C C G G A A G G G A$ AGCAAAAAAAAAAGCAGAAAGAGAGGGGGGAGACAGAGATTA
 GAGAGGAAGGAACCGAAGACAAGGCCAAAGAAAAAGGCGAGG G G GAGGAAACAAAGCGTAGGAAGAAGGAGGAGAAGGAAGGGG A A A A GACCAGGAAAGGGGCCGGGGAAAGGGGACAAAAAGGAA A GAGACCCGGAAGGAAAGAACCAGAAAAGACCCCGAGAAAGA A A A A A A A A GAA A A A GAGAGAGAAAGGGGGGAGGGAAAA GGGG TAACAGGAAACATTAAGGGAAACCAAGGAAGGGGGAGGAAAA C CAAAA $A \operatorname{A} A A \operatorname{A} G A G A A G G A A A C A G G A A A G C G A G G A G G C A A A A$ G G G G G A G A G G C C A G G G G A A A G G G G A A A A G G G G C C G G A A A A G G A A G G G G A A A A G G C C G G G G G G G G A A A A G G A A G G G G A A A A A A A A AAGGCCGGGGAAAAGGGGAACCAAAAAAAACCGGAAAAAACC AAAACCAACCAAGGAAAAGGGGGGCCAAAAGGGGGGGAAAAA
 AAGGCCGGAAAAAAAAGGAAAAAAGGGGGGAAGGGGCAAAAAA AA G GAAAAAAGGAAGGCCAAAAGGCCGGAAAAAAAAGGAAAA $C \subset A A A A G G G G A A A A G G C C G G G G A A G G A A G G G G G G G G C C A G A A$ G GCCGGGGGGAAAAGGGGCCAACCGGCCAAGGAAGGAAGGGG AAGGGGAAGGAAGGAAAAAACCCCGGAAAAAAGGGGAAAAGA A A A G A A A A A G G G G GAAAAAAACCCGGGGGGACAAAAGCAAGG C CAAAAGGGACAAGGACCAAGGACAAGGAAAGGGGGAAAAGAG A A G G A A A G G A G G G G G G A G A G A C A G G G A G C C A A G A G G G G G G G G A A A A A A G G A A A A A TAAGGGGGAAGAAGGATCAAAAAGACCAA A A GAAAGAGACCAACCTTAAGGGGGGAAAAGAGAGGAACCGG G G G G C C T T G G A A A A A A A A C C C C A A G G GAG GAAAAAAGGGGTT AACCAACCAAAAAAGAAGGGAAGGGGGAAAGGGGAACAAGAG CAGAAGGGGGAAAGAGACGGAAAGGGGGGAAAGAGGCAAGAA AAGGAGCAAGAGGGCCGGAACCGGGAGAAACCGGAGGGAAAA

G GAAAA A A GACAAATAAAAAAAGGAAGGAACACCCAAGAGAA A G A A A A A A G GAACAAACCAAAGCCGGGGAAGGTTAAGAGGGA TAGAGGAGGAAAAGGAGAAGCCCCGGGGAGGGGGCCBACAGA G G G GAC G GAAGGAAAAAAGCGGAGAGCCCCAAAGGAACAGAG G GAAACGGGGGCAAGGGGAGAAAAAGAGAGAGAGAGAAAGAG A A GAAAAACCAACCGGGGCAAAAGAATTGGGAAAGAAAAGCC A GAA A GCCACAAGGAGGGAAGAAAGGAACAAGAAAGGAAGAA $G G G A G A A A A C G G A A A A G G A A A G G A G A G G G A G G G B A G A A G G G G$ $C \subset G G G A A G G G G G A G G G G A A G G A G A G G C C C C G G A A A G G A G G G G$ AAGAGAAGAAGGAGGGCCAAAAGGGAGGGAGGGAGGGGGAGA

 GAGGCAGGAACCAAGGTTAAAAGGAAAAGAAAGGCCGGGGGG A A GAGAGAGGAACCGGAACCGGGGAGAAGGAAAAAGAACCGG A GAAAA AAAGGAGAAACAAAGAGGGAGGGGAACAAAGGAACC G G T TCCAGGGCCAGAACCGGAAGGGGACAAGGCCAGGAGGAAA
 A A A A A A G G A G A A A A A ACCAAGGGGAAAAGACCGGGGGAAAAA G G G G GACCGAACGGGGGAGGGGGGGAGAAACCACGAAGAAGAG A A G G A A A G A G A G A G A A G G A A A G G A G G A G G C C A A G G A G G G G G G GGCCGAGGAGAAGGACGAAACGAAAAACGGGACCAGAGGGGA G GACGGAAAACCCCGGAACCAAGGGAAAGGGGGAGAGAAAGA GAAGAAAAGCGGAAAAGGAAAAGGCCGGCCGGGGGGAGAGAA G GAA A G G A A GAAAAGAGGGGAAAAAAAAAGAGGGCAAAGACC
 A G G A A G A A A A G G G G G GAAGGACAGCAGGGAAGGGAAAAAAAA G GAAGGGGAACCAGAAGGCCAAGGGGCCGGGGAAAAGGAAGA G G G G A A G G A A A A G G A A GACCAAGGAACCAGGAAGCCACAGBA A A A A G GCAAAGGCCAGCCGAGGAAGGGGCCGAGGAAGGAGAA C CAAGGGGAGGAAACAAGGGAGGGGAGACCAGCAGAAAGGAA AA $A \operatorname{G} A A A G A A G A A G G G G G G G C C G A G G G G A C G A A G A A C C A G A A$ CACCCCTTACCCCCAAGAGAGAAGCAAAGGAAAGGGCCAAAG G GCA C GAAAAGGAGGGCCAAGGGGGGAAGGCCGAGGAAAACC A A G G A A G G G GCCAAAAAAAAAGGAAAAAAGGAAGATTAAAGEG $G G A A G A G A A G A G A A G G A A A A A G G A A A A A G G A G A C A A A A G G C A$ $C \subset G G G G A A A A G G G A A A G G G G A G G G G A A A A A C A G G G A A A G G A G$ AGACGGGGGGGAGGGGCCAGAGAAAGAAGGAACCGACAAAAG A G G GCAGGAAAGGGCAGGGGAAAACCAAAGAGACAAAAAAGG GAAGGGAAAGGCAGAAAAGGGGGACAGAAGAGAAGAGAACAA A A G GCCA $C$ C G $\mathcal{C} A G G G G G G G A G A G A G C A A G T T G G A A A A G G A A G A$ A GAAGGAAAAAACCGGAGGGAAAAAAGGAAGGCCAGAGAGAA GGCCAGAGAAAAGACACAGGAGAAAAGGAAAAAAGAAAAAGG $C \subset A A C C G G A G A A A A A A G G G A A A A G A A G G G G G A A G A A G A A A A A$ C C A A G G G G G GAAGGGAAAAGGAGGCAGACCAAGGGGAAAAAA G G G GCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAGBAGAA G G A G A G C G G G G G G G G G G G G G A A A G A A A A A A A A G G A A C C G A G G A G GAGCAGAGAGGCGGAAAAAAAGAAGGGAGGACGAGGAAAA T TAAAACCCCGGGGGGGGAAGGAACCGGGGCCCCCAGGTTAG A A GAAAAGAAAAGGAGAGGAGGAACCGAAGAGAAAGAAAGAG G G G G A T C A G G C G G G G G A A A A G G G G A C A G G GAAAA A G G G G A A A $G$ $A G C C A A A A A A G G G G G G G G G A A G G G G G A G G G G A A A G A C A A A G G$ A A G G G GAGGGAAAGAGCGAGAGGAGGAGAAACAAGGAAGGGA G G G A A A G G A A G G G G G G G G G G G A A A A A A A C C A A A A A A A A A G G G AAAGGAGGACCAGAGGAACCACAACCTTACGACCGGAGAAGA GACAAGGGGGGAAGAGAGAAAAGGGGGGGGCCGAAAGAAGAA A ACCGACAGGGGCAGAAAAAAAGGAAAAGAAAGGAGAGGAAA GAAAACGGCCAATTAAAAAAAAGCAAGAGGCGGGAAGGAAGA C A A A C C G A A C A A A G C C G G A A A A A C A A G G C A C C A A GA G G G G G G $A A C C A A A G G A A C A A A G A A G A G G A G G A A G G C A G G A A A A G G C C$

A A G G G GACACGGAAAAGGGGGCAAGGGGAAAAGGGGAAAGGG G GCC C G G A A A A A G G G G G G G G G A G G G A G G G GCCAA C A
G G G A A A C A A G G G GAA G G G GCC GAGGAAGGGATTACGGGGGG C A A A A A A A A A A A G GAAAAAAAAACAGGGGAAAGGCCGGAAGG A GAGAAGAGGGGGGAATTCCGAAGGAAGGAATGAAAGGAACC AAAAAAGAAGGAGAAGGGGGAAGGAGGAAGAAGAAAGAGGAG ACAAGGAGCCGAGGCAGGCAGGGGGAAGCCGGAAAAACGGGC GGGAAAGGAAAAAACCAAAGGAAAGAGGGGGACCGAGCAGCC AAACCCACGGCAAGACGAGGAGGGGGAAAACCCCAAAAAGAG GGCCAAAAAAAGAGGAAGGGGCAACGAGTTAGAAAGCCCAGG A G G GAGGAAGCCAGAAAAAGGGGGAGAAGGGGAGAGCCAAAC A GAAGAGGGGAAGGAAAGAATTGGAAAAGGAAGGGGGGCCAG G GAAAGGCAAAGGGAGGGGGAACCCCGAAGGAAGGAAGACGG C CAGGGACGGAACAAGGAAAAAGGGAAAACAAAGAAGGGGGG ACAGGGGGGGGGGGGGGGGAGGGAGGGAGCGGGGAAAAGGAA CC G GAAAAGGCACAGGAAGAAAAAGGGGGGAGGAGAAGAGGG A G G G G G G GA GACGGAAGGACACAGCCCCGGGGAGCCGGGGAA G GAAGGAAGAAAGAGGGGAAGGACGGAAAGGGGGGGAAAAAG AGAACCGGAGACGGAAGGAGGAGGACAAAGGAGAACAAGGCC C CAAAAAAGGAAGAAGACAGGGGGGGGAACGGAAGGGGAAAA AGACGGAAGAAAGGGAAAAACCGGGGAAGGAAAAAAGGAAGG AA G GAGAAGAAGAGAAAAGGAGGGGGGAAGGAACGGAAGAAA AAAAGGAGAGGAGGAAACGGAGACAAGGAAGGGGGAGAGGGG A GAA A GAA A G G G G G A A G G G G G GCC C A A C A G G G G G G G A G G G A A A A A GAA $\operatorname{l}$ G G G G G A A G G A A A A A G G G G G GAACCAGAAGACGGA GAAACCTAAAGAGGCCGGGGAAGGAACCGGAAGAGGAGGGCC G GAAGGGGGAAGGAAGGGAAGGAGAAGGGGGGGGAAAGGGAA GAGGGGAAAAGGAAGGAAAACCGACCGAAACCGGGGAAGGAA G G G GAA G GAAAAGGGGAAAAGGTTAAGGAAAGAAAAGGGGAC AC G G G G G G A A A G A A G GAACCAGAGGGGGGGGGAGGGGGGGAA G GAAACAAGGGGGACGAGGAACGGCCAAAAGGGGGGAGGACC
 G GAGGGAAGGGGATAAACAGGGAAACAAAAAGAAGGAAAAGG C A A A G G G GAAGGGGAAAGCCCCAGAGCAAACACAGAGGGAAG C C GGAAGACCCACCGGAACAAGCATTAAAGCCAAAGCCAGAG G GAAAAGGAGGGGGGAGGGGACGGAAGGGGAAAAAAGGAAAG ACAAGGGGCCGGAAGGGAAGAGGGAGAAAACCGGGGGAGGGG AGGAGGGGAGGAGGGAGGAAAAGACAACGAAAAGGGGAAGCA GAAGAAGAGAAAGAGGAGAAAAAGGGGGGAAAAAGGAAGGAG A G T T GA G GA GAGAGAAGGAAGGAAAGAAGGGGAAGAGGGGAA CAGGAAAAGGCCAAAACAAAGAAAACCCGGGAGAAACAAAAG C A A A G A A A GAAGAAGGAGGAGAGAAGAGGGAGAAGGGACCGG A G GAAAGAGGGGGGGGAAGGGGGAGAGGGAAAGGAAGGGACA TATTAGGGCCCCAAAGAGCCGGGGCAAGCCAGGGGACCAAAA GAGGGGGGAAGGGAGCGACCGGAAAAAAAAAAAAAAAAAAAA G GCACCAAAAGGGGGGAAAAAGACAAGAGGAGGGGATAAAGG C GAA $\operatorname{G}$ G G G GAGAAGGGAAAACCGGGGCCGGAGCAAAAAGGAA AAGGGGGGAAAAAAAAGGGGGGGGAAAAGGGGAAAACCCCAA GGGGAAAACCGGCCCAGGGAAAAAAAGAGAAAAAGGAAAGGG G G A A G G GAAGGGAAAACCGGAAGGAGGAGGAAGGAGAGGAAG GACCGAAGGGAAGGGGGGAGAGGGGGAAGGCCGGAGGGGGAA GGGAGGGAAACAGAAAAAGGCCGGGAGAGACAATGGGGAAAA G G G G GAGGAAAAAAAACAGGCCAGACAGGGCCAACCCAAAAA AAAAGGAAGGGGAAGGGGAAGGAAGGAATTGGCCCACAAAGG ACAAAAGAAGGGATGGCCGGAAAAAAAAAAGGAATTACGAAA A A G GAA G GAAAGGGCCAAGGGCCCAACCGGGGAACAAAGGGA CAAAGGCAGGAGAAAAAACCAGACAGAAAAGAAAAGAAAAGA T TAAGGAAAAAGCCGACAAAGGCCAAAGAAGGGGGACCCCGG T TAAAGGAAAGGAAGGAGAGCGGGGAAGGGCCGACAGAGGAA

AAGAGGGGAAGGAAAAAAAAGAAAGAGAGGGGCCAAGAGAAA AACCAACCAGAGAGAGAGGGCCGAGGAAAAGGACBAGAAAAG
 GGGAGGCCCCGAAGAGCAAAAAAAGAGGGAGGGAGGAAAAAG
 GAAGGAGGAGACGGCCGGAGCCGGCCGGAAGAGGAAGGGGAA A G GAGACCGGCCAAAACCCCACGGCCAAGGCCGAGGAAGGAA GAACGGAAAGAAAAGGAGAGGAGGGGGGAAGGGGAACCAGGA G G G G A A A A G GCCAAAAAAGGAAGAAACAAGAGGGGGAA GAAA A G G GAA A A A G G G G G C C A A G GAAA $A \operatorname{AGGAA} G G G G A A A A A A G G G G$ A A G G G A A A C G A GAGGGGGGGAAGGGGCAAGAAAGAAAAAAAG A G A A A GACCGAGAGGGAGAGACGGGGGGCAGAGAACATAAGG A G GACCAAGGAAAAGGGGGGAAGGAAAAGGAAGGAGGAAAAG $G G A A G A G G A A A A G G A G A T G G G G C C A A G G A A A G A G G G G G A C A B$ A A G G G A A A G G G GAGAAGGGGAAGGGGAGGACCAGAGAAGAAA
 GAGGGAGGGGGAGGAAGAAAGGAGGGGACBCCGGAGGGGGAA G G A A G G A G A C G A G A G G A GAAGGGAGGGGAAAAAAAA AA G GA G GAAGAACGGGAAGGAAAAGGGGAAAAGAGGGAGGGAAGAAAA G GCCGAGGAAGGAAGGGGGAAGCCAGAAAAGGAAAAAAAAAC G G G G G G GAGGGGCAAAGGAAGGGGAAAGAGGAAACAAAAAGA G GAAA A $A \operatorname{G} G \mathrm{G}$ GAGGGAGAAAGAAAAGGGGAAAAGGGGCCAGAA G GAA A GAAGGAAGGAAGAAGAAGGAAGGCCAGCCAAGAAGAA AAAGAAGGGGGAGGGGAAAACCAAAACCGGAAGGAGGGAABAA G G G A TAAA $A \operatorname{A} G A C A A G A G G A A G G G G G A G G A A G A A A C C A T G A G G$ AAAAGACCAGAGGGGAGAGAACCCAGGGAGCAAGGAGCAGAA AAAAGGAAGAAGGGAAGGGGAAGGGGAAGGGAGAAAGGAGAA A A A GAA A A A A A G G GAGGGGGAGGAAGGACCGCGGCCACAAAAA
 $A T A G G G G A G G G A G G A G G G G G G G A C A C G G A A G G G A C C G G A G G G$ C C G G A GAAAGCC GAAGGAACAGAAAAGGAACCAAAAGACCAG A GTTGACCAAGGGGAAGGGAGGAAGACCGGAAAGAAGGCGCC
 G GAGCCAGAAAAGAAGGGCCAAGAACGGGACCAAGGGGAGAA $A G G G G G A G A G A A A G G G A A G A G G G G G G G A G A A A G G G G G A A G A A$ T T C C A A A A A A G G G G G G G G G G A A G G A A A A G G G G G G A A A A A A C C AACCGGGGCCGGAGAAAAGAAGAGGGAGAGAAAAGGCCGGGA G G G GAAAAAGGAGGGAAAACAAAGGGGGAGAGAGACAGACBG G G G G A G A A A A GAGGAAGGGGAAACGGAAGGCAGAAGCAAAAG AACCAGAGAGAAGGGGAAAACCGAGAAAAAGGGGCCAAAAAA A G GAGACCGGAGGGCCGGAGACGGAGGGCCAACGGGACAAGG G G G A A GA G A A A A GAGGGGAGAAAACCCCGGAAAAAAAAAAGG AAGGCCAAGGGGAAGGGGAAAAAGACAGGGAAAGGGAGAAAG GAAGGGGGAGGGGAGAGGAAGGAAAGGGCCGGGGGACCAAGB G G G GAAGGCCAGGAAGCCGGACAAAGGAGGCCCAACGAAAAA GAACGGCCCCGGAAGGGGAGGGCAAAGAAAAAAAAGGACAAA $G G A A A A C C G G G G G G A A A A A A A A G G G G A A A A A G C C A A G G A G A A$ AAAAGGGGAACAAAAGGGAAAAGAAAGGATAGAAGGAAGAGG
 G G G G G G GAGGAAGAACAACCGGAAGGCCGAGGAAGGGCCCGG A A GAAA A GAGGAAAAGGGAAAAAAGGCCGAAGGACACAAGGG
 CAAGAAAACCGGGGAGGGGAAAAACCGGGAGGAGAAAAAGEG A GAA GAAAAAAGAGAAAAATGGAAAAGGGAGGGAGAAAGGGG A A GAAA A A G GAGAACAAGGAGGGAGGAAAAAGGGGAAAGGAA A GAA A GAAA ACAA $A \operatorname{A} A A A A A G G A C A G A A G G G G G G G C A A A G G A A$ GAACAACCGGAAAAAAAAGGGGAGCAAAAAGGCCAACAGAAC $A G C C G G G A A G G A C C G G A A A G G A G G G A G G A A C C A A C C C C A G G G$ AAGGAAAGAGAAGGAAGGGGAAGGAGGGAAGAGAGGCAAGAA

A GGCCCAATAAGAAGGAGAACCGGCAAGGGGAAGAGAAACGG GACCAGCCGGAAGGAAGGGGGGGGCCCCCCACGGGGA
GAAA A GA $A \operatorname{AGCCA} A G G G G A A G G A A A G T A G G A G G G C C A G A G G G$
AAAGAGAGGAACAAGAGGAAAGGGAGGGCCGGAACCGGAAAA AAAGCAGGAGAGAAAAGGAGAGAACCGGAAGAGAAAAGAAAA
 GAGAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCGAAAGG A G G G G GAGCACCGAACGGGGTAAGAAGGCCAAAAAACCCCGG G G G G G G A A A A G G G A A A $\mathcal{A} G A G G A A G G G G G A A A A A A G G A G A A G G$ G GAGGAAGAAGAGAAAAAGGGGAAAGGGGGGGGGGAGACCGG GAAACCGGAGGAAGAAAAGGGGGGGGGGAGCAGAGAAGAACC G GAGGAAGGGACAAAAAGCCAAACGGAAGGGGAAGGCCAAGAG G G G G A G A A G G G G A G A G G A A G A A G G A A G G G G A A G G G G G C A A A A
 G GAAGGGGTTGGCCGGAGAGGGAAGAAGAAACCAGAAAAGAG G G G G G A A A G GAAGAGGGCAGCAACGGAACAGAGGACAACAAA

 $G G C C A A A A G G A A G A A A G G A G G G G G A G G A A A A G A G G G A A C A A A$ A G A C G G G G G G G G A A G G A A A A A A A A A A G G C CAAA A A A C A G G A A $C A C C A G G G G A G A A A A A A G G A G G A T G G G G A A C C G G G G G A G A A A$ A A GAGGGGGGAAAAGAGGAGAAGAAAAAAAAGCCGGAAGGGG A A G G G A A A G G A A A A A A G GC C A A G G G G G G G G A A G G A A G G C G G A ACCCACCCGGGAAAGAAAAGAAAAAAGGAGGGTTAGCAAAAC $G G C C A A A A A G G G G G A A A G G G G G G G G A A G A A A A A G G A A G G G G A$ G G G G G G A A G A A A G G G G A G G G A A G G G G A A G G A G A G A G G G T T A A $C \subset G A C A A A A G A C G A A G A A G G G G G G A A G G G G G G C C G G C C A A A G$ AC G G G G G G G G G G G G G G A A A A A A G G CAAAAAAAAA A GAAA G GA G A A G G A A GAGGGAACGGAAGGACGGACAAGGAAAAAGAGAACA $G G C C G A A G G G A G G A G A C A A A G G C C G G G G A A A G A G G A C C A G A G$ A C A A G A A C A G T T G G A A G G G G G A C C C A G G G GCC C C A A C C A A G G G GCCAGGAGGAGAAAGGGAACCAAGGGAAATTACGGGAGAAA CAGAGGAGGGGGGGAACCAAGGACAGAGCAAAAAAGGAAACA C C A A A A A A A A G G G G G G A A A G C A A A GAAAAAACGGAGGGAAAA A A A G G G A G A G G A G A A G A G G A C A G A A A CAGGGGGGGGAAAA GA GAGAGAAGGAGAGGAGGAAAAAAGCAAAGACCAAGGGGCCGG A G GAAA A GAA $A \operatorname{Ag} \operatorname{A} G A A A A A A G G A A G G G G A G A G A G G G A A G A A A$ G GAA A A G GACCAAAAGGGTTGGACAAGGGAAACCCCAGAAAA G GCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGGAAGGAA G G A A G G A G A G G A G G G G G G G G A G T T A A G G G G A A A G C A A G A G A A G G G G C A A G A A G GA $A \operatorname{GAAAGGAAAAGGGGGAAGGAAGAAAGGAA}$ G G G G A A A A G G A G A A G G A G A A A A G A A G G G A A G G A A G A G G G G A A $C C G G C C G G A A A A C A C C C C G G G G G G A A C C G G G G G G A A C A A G G G$ G GAGGGGGGGAAAAAAAAGGGGAGAAAAGGGGGGGGAAGAAA A A G GCCAGAAGGGGAAGAGAAGAGGGAAACGGAAAGAGAAGB A A A GCCCGGAAATTGAAGGAGGAAAGAAAGAAAAGAAAGGAA A A A A A A A A A A G G G G A A G G G G A A A G A A GAGGGGAAAAAA G G G A A G GAA $A \operatorname{GA} A A A G A G G A A G G A A G G C C A A A G G G G A G G G G G A C C G G$ G GAAACAAAGGAGGCCAGCAACAAAAGGAAAAGACCGAAAAG GAGGGAAGAGAAGGCCAGACAGACAAAGAGAGGGACGGAGAA


 GAAAGACCGGGACCAGAGTAAAAGACGGGGAAGGAAAGCAAA GAGGCCGGAGAAACAAAAGGAAAAGGAAAGCAAAGGAGAGAA A A A A A A A A A A G G G A A G A A A G C A A A A A A A G GCC GAA G G G G G G G G GCCGACCAAGGGACAGAAAAAAAAAGAAGGACCCGAGAGAA
 A A T T G G GCGGGGGGGAAAAAAGACAGAGAAGGAAAAAAAA GA

G G G G G G A A GAGAGGAACCAGGGACAAGGAAAGAAAAAACACC
 A A C A GACCAAGAAAAAGGGAAAAAGGGGGGAAGGGGAAACAAA G G G G G GCCAAGGAAGGAACCGGGGAAAACCGGGGCCAAAAGA G GAAAAAAGGGGGGCCGGGGAAGGCCAACCAAGGGGGGGGGG G GAA $A \operatorname{GAA} A A A A A A A A G G A A A A G G G G G G C C A A C C G G A A A A A A$ G G G G G G G G A A A A A A A A G GAA A G G GAACCGGAAAA G G G G G G G A A $G G A A A A C C A A G G G G G G A A A A A G G A A A G G G G A G A A A G G G A A G G$ G GAAGAGAAGCCAAAAAGAACCGGGAGAAGAGAGGAGAAAAA G GAGGGCAGAGAAGGGGGAAGGACGAACAGGAGGCCGAAAAA A GAGCCCCGGGGAGAAACGGAAGAGGGGGAAGACGAAGAAGG G GCCAGGAAGGAACAGAGAGACGAGGGGAAGGGGGAABAAAA G G GAA $A \operatorname{GGG} \operatorname{GAA} \mathrm{G} G A A G A A A A A C A A A G A G A A G A G G A A G G G G A A$ GAAGGGGGAAAAAGAGAGGAGGGGAAAAAAAGGAAGAAGAGA AAGAAAGAAACCGACAAAAGGGGGGACCGGAAA GGGGAGGGG AAACGGAAAAAAGGGGAGAAGGAGAAAAGGGGAGGAGAAAGAA AAAGCAAAGGGGAAGAGGGGGGCCGGAAAAAGGGAAAAAAGG A G G G A GCAG G A A G A GAAAGGAAGGAAGGGGAAGA GAAA GAAA GAAAGGAAAAAAGGAAAAGGGAAGGAGGGGGAGAAAGGAGGG A G G G A A GA $\operatorname{A} A A A A A A A C C G G G A G G A C G G G G G G G A G A A G A A G A$ GACCAGGGAAGGCAGGCAAAAAGAGGGGAAGGGGAAAAGAAG G GCCGGAGAAGAGGGGAGAGGGAGAAAAGGGGGGGGAAGAAA C CAAAAAAGAGAGGGGAAAAAGGGCCGGAAAGAAGAGAAGAG G G G A A A A A G G A A A G G A A A A A G G G G G A A G A A A A A A A A G G A A A G GACAGGGAGGGGAAGGGAAAAGCAGAAAGGAAAACAGGACAA GAAGGGCCAAGGGGAAAAGGCCAAAAAGAAGGAGAGGAAAAC AA $A \operatorname{GGA} A A A A A A G G G A A G G A A G A A A A A A A A A A A G G G C A A G A G$ G G G G A A A A G G A G G G A G GAACGGCCAAAAGGAAGGAAAACCAA G GAAAGCCCCCAAAAAGGGGGGAAAAAAAGAAAAAAGAGACC GAGGAGAGCCGGAACCGGAGCCAACCGAGGAGGAGAAGGGGG A A A G A A G A G G G A G G CAA A G G G G CAAAGGGGAAAAGGAGAAAA A G GAGGGGGAATGAAGAAAGAAGAGGAAAAGAAAAACCAAAA C CA A G GAA $A \operatorname{GGA} C \subset G G G G C C A A G A A A G G A A G G G G A A G A A A A A$ G G G G G A A A C C A A C C A A G GACGGAC GAGGCCAGAAAAG GAA G G G G G G G G A T G G G GC C A G G G A A C C G G CAACA GAAC A A G G G G G C A G G A G G A G A G G C A A G G G A C A A G G G G A C G G A G A A G G G G A A G G G G AAAAAACCAAGGAAAAAGGAACGGAACAACCAAAAGCAAABA
 GAGGAGGGAGGAGGCAAAGGGGGGGGAGCCAGGACACCBGAA
 AA $A G A A G G A G A C G G G A A A A A G A G G G G G G G G A G C C G G G A G G C C$ GAGGCCGGAGGAGGCCAAGGCCACAGGGGAGGGGAGABAGAA G GAACCGGACGAGGGGAGGAAGGGAGAAAAGAACACAAAACAC G G A G G G G G A G G G G G G G G G A A G G G G G A A C C A A A G A A A G G G G C A $A \subset A G A A G G G G G G A G C C A A A A A A A A G G A A A A A A G A A G G G A G C C$
 GA $A$ A $\operatorname{G} G \mathrm{G} G A A A C G G G A A G G G A G G A C C G G G A A A G G C C A A G G G G$ A A GAA A A A A CA A A GAGCCAGGAAGGACCGGAAAGGGAGAGAC
 CAA A G G G G G G G G G A G G G G G G G G A A $\mathcal{A} G G G A G G G G G A A C A X A A G$
 G G G G A A G G G G A A G G G G G GAAGGGGAAAAAAAAAAAAAA AAAC A A G A A A G G A A A A G G A A A A A A C CAGAGGAAAGGAAGGAAACGA AAAAGAAACAAGCCAAGAGAAGAAAAGAAAAACCAAGCAAAC A A G G GA A A G G G GAAAAAAAAGGAAGGAAGGGGGGCAAAAAAC GACACAAC GAAGGGAGAGGAGGAACCGGGGGGGGCCBAGGGA GA $\operatorname{G} G A A A G A A A A A A G A G G G A A A G A A A G G G G C C G G G G A C A G G A$ GGGGAGAGAAAGCCGGAGAAAGAGGAAAAAAAGGGGAAAAGA AAAGAAAAAACAAAGAACACGAGAGAAGGAAAGGAAAAAAGG

A A A A G GAAAAGAGGAAAAGGAAGAGAGACAGGCCGGGGGGTT $G G A A A A A G G G A A A A A A A A G G G G G A C G A G G G G A C A G G C$
$C G G G G A A G G A A A A A A G G G G G G A G A A A A A A G G A A A A C C G G A G$ GAACACAAAGAAACAAAAAAAGGGGAAGAAAGGGAGGGGGGG A GAGGGAGAGGGGAGGGAAAGGAAAGAGAGAGAAGGGGAATT AAGGAGAAAAAAAAGGGAAGGACAGAAGGGCCGGAAAAAAGG AACCGGAAAGGGGGAAAAAAAAAAGGACGAAGACAAGGACAA AAGAAGGAAAGGAGGGAAGAGAGGGGAGGGACGAGAAAACAA AA $A G A A G A A A G A G G A A A A G G G A G G G A A G A A G G A A G G C A G A A A$ TTGGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G GAA $A \operatorname{GGGA} G A A A A A G C A G G C C G G A G G G A A G G G A A G A G G G$ G G G G G G A A A GACAAAAAGAGGAGGAGAGCCGGAGAGAGAAAA GAGGAGGGAAGAGAGGCCGGAAAAAAGGCCGGAGGGAGAAAA GAGGGGGGAGAGGGGGAAAAAACCGGAACAGGACGGAGAAAA G GAGCCAGGGGGGAGGGACCGAGAGGGGGGAAAAGGAAAACC AAGGGAAGAAAAGGAAAAAGAAAAAAGAGAAACCCCGAGAAA CAAGACCCAGAGAAGGAGACAGGAAGAGAAGGGGGAAAAAGA C C G GAACC $\mathcal{C} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C \subset A A A A G G G G G G G G A A A C G G A G G G A G C C$ CCAGAAAGGAGAGGAAGGGGAAAAGGCCAAAAAAAAAGAAAA C C G GAA A G G G A A A A G G G G A G G G A C G G C C G G G G G GAA A GAAA A G G G GAA A GAAGGGGAAGGACGGCCGACAAGAAAAGGAACAAA G G A A A A G A A G G A A G GAGGGGGGGAGCAAAACCGGGGAGGGCC A A A A ACGGAAAACCAGAAAGGACAGGGGGGACAAGGAAAAAG GAAAGGCCGGGCAACCGGCCGGAAGGAAGGAAAACCAAAAGA A A GAAAGGAGAACAAACCCAGGGAAGGGAGGGGGAAGAAGAAA ACGAAAGAGGGGGAAAGGAAAGAAGGGGGGAAGAGAGAAAAA G GAA $A \operatorname{G} G A A A G G G G A A A G G G C A G A G G A A A A A G G G G A G A A A G A$ A A A A A G G G A A A A G GAA A GAAGGACTAAAGGGGCCCCAA G GAA AAAAGGGACCCCGGGGAAAAGAAAAGGGAAGGAAAAAGAAGG GGAACCAAAAGAGGAACAGAGACCGGAACCAAAGAAGGAGAA A G G A A G A G A G G G G G G G G G A A A A G G CAGGGGCACCCAAA GAAA $C \subset A A G G A A C C G G G G A A A A G G G G G G C C A G G G G G G G G G A A C C A A$ A G GAAAAAAAAGAGAGAGAGGACCAGAACCAAGGAAAAAAGG A G G G A A A G G G T T G A G G A GA $A \operatorname{GAAAAAGCCGGAAGGGGGGAGAA}$ A A G G G A G G C C G G G G C C A A G G T T G G A A G G G G G G G G C C G G G G G G G G A A C A A G A GAC GAGACAGGGGCCAGAACCCAAA GAAGAGAA AA $\operatorname{A} G A A A A A A G G G G G A A A A A A A G G G G G G G G G G G G A A G G G G A A$ A A A A G GAA A ACCGGGGGGAGAAAAGGAAAAGGGGAAAAAGGG GAAGACGGGGCCGGAGAATAAAAAGGAAAGGGAGAGAAAAAA G G A A A A A A A G GAGAGGGGAACAAAGGGAAAGAAGGGAAAGAG AAGGGGGAAGACCAGAGGAAAAGGGAAGGGAAGGGAGGAGAA A A A A A GAAGGAAAATACCGGTTGGCCCCGGCCGAAGGAAAAA C CAAAAAAGGGAGAGGGCAAAAGGAAGGAGAGGAGACAAGAG
 A A GACCGGAGAAGAAGGGAAGAAGAAAAGGGGAAAACACCCC G GAA $A \operatorname{GAA} \operatorname{A} G \mathrm{~A} A A A A C A A G G A A A A G G G G A A G G T T A A A A C C T T$ A A G G A A A G A A A ACCCCGGGGAAGGCAGGATAAAAAACCGGAA A GAAAAGGACGGGACAACCACCAACCGGAGAGAAAAAGAGAA G GAA A G G G G G GAGAAAAGAAGGAAAAGGAACCAAAGGGCAA G $C \subset G G G A G G G A G G A A A A G G A A C A A A A G A A A G G G C C C C G A G G A G$ ACGGAGACAAGGCCGACCAGGGAACGAGAACCAAGGGGGGCC G G G GCAG GAAAACAGGGGAAAAAAGGAAGAAGAAGGAGAGA G AAAACCGGGGGGAAATGGGGAACACGCCGAAAGGGAGAAAGG AAGGGGCAGGAAGGGAGGCAACAGGAGGGGTTGGGAAGAGAG G GAACAGGAAAAGGAGGGACCCGAGGCAGAGGAGCAAAGGAG G G G A A A A A A A G G CA A G G G G G T A A A GAAAGGGCGCGGCCAA GA A A A A G A A GAA $A \operatorname{GGGAACAAAGGGGGGGCCAGAACAGAAACAGC}$ A A A A ACGAAACCGACCAAGGGGAAAGGGGGAAGAGGGGGGCG $A A C C G G A G G A C A A A A A A G G G A G C C G G A A A G G A A A A A A A G G A A$
$C \subset C \subset A A A A A A A A C C G C G G G A A A A G G C C C G G G G A A A A A A A A$
 GACGTAGAGGCCGGAGGGGGGGGGGGAAGGGGAAA GAAAGAA G GAGGGGAAACAAAGGGGGAAAGGAAAAGGGGGGGGAAABAA $C C G A C A A G C A A G G G A A A A G A G G G G G G A A G G A A A G G A G G G A A A$ G G A A A A A G G A G G G G G G G G G G G A A G A A G G T T G G G G C C G G G G A A A A A A A G G G A A G G T T A A A GAAGGGAAGGGGGACAAAAGAAACC AAAGAAAAAAAAGGCAGGAGGAGGGGGGGAAGGAAAGGAGAA
 CAGGGAAGAAGGAAAGCAAACCGAAAAAAAACGAGGAGAGGG G GAA A G G G G G G GAA $A \operatorname{G} G C \subset G A C C A G G G A A G G A G A A C A G A G G A G$ C C C G A GCC G G G GAA A A GACCAGAGAAAGGGCCGGCCGAAGCC GACCGGAACCAAGGAAAACCCACCGGAAGAGGAAAACCCCAC GAAGAAAACAAAGGAGAGGAGGAACCGAAAGGCCAGAAGGGG A A G GACAAGGAGGGGAAGAAGGGGAGGGAAGGAAAAGAAAAA G GAA A G G G A A G G G GAAAGGAGGGGCCGGAAAAA GG GAAAGGG GACCGGGGGAAAGAAAGAGGAAGGCCAAGGGGGGCCGGAGAG G G G G A G A A A A C C GAACAGGAGAGGGGCAGGAGGAGAAAAC G G A G G G G G GA $A G G G A A G G A A G G A A A A G G G A A G A A A A G G A A C C C C$ G G G G G G G G G G A G A A A $\mathcal{A} G G G G G G G G A G G G C A A C G B A A C C A G G G$ CCGGCCAGACAAAACCGGGGGGAAAAGGCCAAGGGGAGAAGA A A G G GAACAGAAAGAAAACCAGGAGGCCGGAAGAAAGGAAAA GACAAAAGGGAGGAGGCAGGAAGGGGAAAGAAGGGAAAGGAA A G A A G G G G C C A A G A A C A G G G G G G A G G A A C C A A G G G G G G G G A A G G G G A A G G G G A GA C G G A G G A A G G G A G G G G GA G C C G G G G G G A A G GAACAAAAAAAGGCGAAAAGGAAGAGGCCGGGGAAGGGGCC A GAC $\mathrm{A} G A \mathrm{~A} G \mathrm{G} G \mathrm{G} C \mathrm{C} A \mathrm{~A} A A A A A A G A G A A G G A A G G G A G G G G G G G G$ G GAGAAAAAACAAGCCGGAGGAAAGGACAAAAAAAAGAGGAG A G A A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{G} G A A \mathrm{~A} G A A A A G G A A A A A G G A A A A A G G G G$ GAGGAAGGGGGGGGGGAGAAAGGAAGGAGGAAAACCGGAAAG G G A A C C G G A A G GCCCAGAGGGGCCAGCCAGGGGGAAAAGGCC G G G GAAGGAACCGGGGAGGGAAAAAAGACAGGGAAAAGAAAA GAGAAGGAGAAGAGAAAAACGAAAGGAGGACCCCAAACAAGAA G G G A G G A G A A A A A A A G A GCCAAA $\mathcal{A} G G G G A A A A A A G A A C A G G G$ A A A A C CA GAA G GCCATGGAATTCCAAAAAGGGAACGAAGGAC G GCAA C G G G GAGAGGAAAAGGTTGGAAGGAAAAGGGGAAAAAA AAAA $A \operatorname{A} A A A A G G G G A A A A G G G G A A C C A A G G A A A A A A G G G G A A$ G G G G G GAAAAGGAAAACCAAGGGGGGGGAAGGGGGGAAAAAAA G G G G G G A A G G A A C C G G G G A A A A A A A A G G G G G G G GCCAAAA C C CCAACCAAGGAAGGAAGGCCCCAAAAAAAAAAAAGGGGCCGG
 A A G G G G A A G G A A A A G GCCGGAAAACCGGAAAAAAGGGGCCGG AAGGAAAAGGAAAAGGCCCCAAAAAAAAGGAAGGAAAACCCC A ATTTTGGAAAAGGAAGGGGGGAAAAGGGGAAAACCGBAAAA C C G GAAGGAAAAGGAAAAGGAAAAAACCGGAACCAAAAAAAA A A G G G GAA A G A A A A A A A A G G G G C CAAAA A GAACC G GAA G G G G G G G G A A A A G GAAAAAAGGGGAAGGGGGGAAAAAAGGAAAAAA A A G GAAAACCAAGGGGCCAAAAAAGGGGGGCCAAAAGGGGAA
 G G G G G G G G G G A A A A G G G G A A A A A A A A A A A A A A A A A A A A G G G G G G G G A A A A C C C C G G G G G G A A A A G G G G G G G G G G G G A A A A G G G G A A A A GAGGGGGACCGGAGGGCCAAAAAAGGAAGGAAAAAA GG
 AAACAACCGAGAGAGGGGAAAGGGAGGAGAAGCCGGGGAAAG A GAG A GAGGGAAGAAAAAAGGAGGAAAAAACCAGGGGGGGAG A GCCAGAAGGAAAGGAAGATAACCGGGGAAGAGGACAGAGAA GAAAAAAAAGGAGGGGGGAAAAAAGGGGGGCCGGCCAAGGAA G G G G A A A A A A G G A A A A A A G G G G C C A A A A GGGGGGGGGAAAAA GGAAGGGGGGCCAAAAAAGGAAAAGGAAGGAAAAAAGGAAGA

G G G G G G A A G G A A A A G GAAGGGGGGAAAAAAGGAAAACCACAA A ACCGGAAGGCCCCGGAAAAAACCAAGGAAAAAAGGG
G G GCCAAAAGGGGGGAAGGCCAAAAAAAACCGGAACAAGCC G G G G GAAAAAACGGGGAAAGCCGGAAGAGGAAAGAAGAGGAC A A G GAGGGGGAAGGAAGGAGCAGGGAGGAAGGGGAGAAAGAA A A A G G G G A A G G A A A A G A T G A A A A GAGCCGGGGAGAAAA G G G G A A C A G G G G GAAACCGAGAAGGGGAAACAGGGAAACAGAATAG GGGAGGGGACAGCACAAAAACCGGACCAAAGAGAAGAGAAGA G G G G G G C A G A A A G A G G G G A A G A G A G G G A G G G G A C G G G A C A G G GAAGAAAACAGAGGGGAAGGATGGAGGGAGAAAAAAAAAAAA A GAAAACAAGGGAAGAGGAAGGAGCAGGGGAACCAAGAAAGG G G A A A A A A C A A A A G G G G G G A G G A A A A A A G GAACCAA G G G GAA A ACACCGGGAGGAGAAAAGGAAGGGGACAAGGAGAGAGAAAA GAAAAGAAGAGGAAAAAAGGCCAGGAAAGAAAGGGGACAGAG G GAAA A A G G G GAGGAAAACCGAGGGAAGACGACCAGACGGAG AAAAGGGACCGAAGGGGGGGTTAACGAAAGAAGAAAACAAAG A GA GAGAAGAAGAGAAAAAAAGGAAGGAAGAAGAAACAAAAA
 $C \subset C C A G G G A G G G C C G G G G G A A G G A A A A G G A A G G A C A G A A C G G$ ACAG G A C C A G G G G G C A A A G G G G C A G A A G A A G G A G A G G A T T G A AAGAGGCCAAAGGGGCGGGGGGCCGGCAAGAAAAAGAACCAG
 G G G G A A A A A A A A A GAACCGAGGCACACAAGGGGGAAAAAAAG G G G A A A A G G GCCAGGAATAAGAAAAAAAGGGACCAGAAAAAA CAAAAAGGAGGGCAGAGGGGAAAGCCAAAGGAGAGGACCCBG GAAACCGGGGACCAAAAGAAGCGCAAAGCAGGACCCGGAGGG
 GAAA $A \operatorname{GAAAAAGACCGGGAAAGGGAGAGGCCGGGGGGCCAAA} G$ C C G G G GAAA A A GAAGAGGACAGGGGAACAAGGGGAGAGAGAA GCAAGGGACCACGACCGGAAGAAAAGGGAGGAGGGGAAGGGG G A A A C A A A G G G G A G A A A A C C A A G A GAC G G G A A A A G G G G A A A G CAAAAGAAAAGAACAAGAGAGCGGGAAAAAGGGGGGGGAGAC G G G G G GCC $C$ G G G G G A A A G G G G A A A G G G G A G G G G G G G A A C A G G
 G G A A G G G G G G G G C A G G G A A A G A A G G A GAAAAA $A$ A G G G G A G G T T A A G G A CA $\operatorname{A} G A G G A G G G A A G A A A A G A A G G G G C C A A A A A A A G A A$ A G G G GA A A A A A GAA A AA A A G GAGAGGAAGGAAAGGAGAAAAA AACCCCGGAGAGGGAAAACCCCAAAGCCAAGGTTAAAAGAGAA GACCAGGAGGAACAAAAAAGGAAAAGGAAGGGAAAGGAAAA G $A G C C A A A G C C C A G A G A G A A G G G A G A C A G G A A A G A G G C A G A G G$ $A G A G G G G G A G A A G C G A A A A A G G C C G G G G A A G A A A G G A G G G G A$ G G G A A G G G A G G G G A GAA $A \operatorname{ACAGGGAGGAAAACCGGACAGAGBA}$ GAGAGAGAAAGAGGAAAGACCCGAGGGAGAAAAAGGGGGGAC AACCGACCAGAGAGAAGAGGAGCCGGGGGAAGAGGACAAAAG G G G GCCAGGGAGGAAGAGCGCAGGGGAAAAAAGGAAGGGGGA A GAG G G A A A C A A G A GAAAAAA A A A G G G C C GA G G G G G G G G G G G G A G A G A G C A A A G G G G G A A G C C G A G G G A A G A A G G A A GACAAAA A G G G G GAAACCACAAGAAAAGAGAACCGACCGGAGGGAGAAGA GAGGGAGGAAAAAAAACCAAAAGGAAGGGGGGGGAAGGAGAA A A G G G A G G G GCC $C$ G $\mathcal{C} A A G G G G G G A G C A A G A A T T A A A A G A A C B G$ A G G G A A G G A A A A G G GAAC $\mathcal{A} A \operatorname{A} A A \operatorname{A} A A A G G G G G G G G G G C C G G C C$ A A A GACGAAAGGAAGGGAAAAGGGGGAAGAGAAAGGGAAAAA G GCC G A G G G G A A A A G G A G G A A G A GACAGGGCCGGAAAA G GAA G GAGGACCAAGGAGGGCCGGAGAGGAGAAAAA
 A A G G A A G C C C C C A A G G A GAGCAGGGAAGAAAGCC GAAA G GAA C C G A G A A G G G G A G A G G A A C C A G A G G G G G C C G G G G C C G G G G A A
 AAAAGGGAGGAAAGACAGAGCCGGAGGAGAAAAAGGAAAAAA

ACGACCGGACCAAGGAAAGGAGGAGAAGGGGGACAGACAGGG G G A A A A G G G G A G G G G G G G G G A A G A A G G G G C G A T T G G A A G G A A G GAAAAAGAACCAGGAAAAAAGAACCAGAGGGCCGGAAAGAA AAAA $A \operatorname{A} A A G G G G G A G G G G A A A G A A G G C C G G A A G G A G G G G G A G$ CAGAAGAACCAAAAAAAAGAAAAAAGAGCCAAGGGGGGAAAA A A G G G A A CAGCAAACCAAGGAAGGGGTAGGAAAAGGTTAAAG AAAGGGGAAGAACCAAGGAAAAAACATTCCAGAGACGGAGCA AAAGCAAGAAAGGAAACAGAAAAAAAAAAGCCAAACAGAA GA G GAA $A \operatorname{GAAAAAGGGGGGAAAAAGAGACGGGGGGAAAACCAGAA}$ AAAAACAAACAGAAGGAAGGAAAAAAGGAAAAGGAAAGAGGG A A G G G A G A G G A A G C G G G G A GAGGAGGACAAAAAGAAAAAAAG G GAGGAAAGGAAGAGGAGAGGACCAAAGCAGAGAAGAAAAAA A A A A A GAGAACCCCGGAAGGGGGGGAGGAGAGCAAGAAGAAA A A A A A A C A G G A A G G G GCCA A G G G G G G G G C C G G T T G G G G A A G G G GAAAACCGGGGAACCAAAAGGAAAAAAGGCCGAAAGGAGAG G G GAGAGGAAAAACCCGGAAAAGGAACCGGGGGAGGAGCCGG AC GAAGCCGGAACAAAGGGAAAAGGAACGGAGAACAGAGAAA G G A A G G A A A A G GAGGGGAGAGGGGAAGGAAGGAGAAGAAAGA GAGGGAAAGAGGGGCCCAGAGGCACCAAAAAACCAGAACCGA
 G G G GAAGGTTAAAAAGGGGGCAAAACGAGAAAAAACAAGAGG AAAGAAAGGAAACCGGAAAAGGAGACGGAAAACCAAGAAAAG GAAAAGGGAACCGAGAAAAACCGGCCAGAGAAGGGAGGAGAA G G G G G G G G A A G G G G A A C C G GAACCCCGGGGGAGAA G GAA G C C AACCGGCCCCAAAAAAGAAGAAGGAACCAAAAACAAAGGGGG CAGAAAGGAAGACCAAGGAAGAAGGAAAGGGAGGGGGGAGAA A G G G GAAAGGCCAAAAAAGGAAGGGGGGGAAAGGAAGAAAAA A A A A A A CAGAGAGGGGAAAACCGGAAGGCCAAAGGAAAGAAA G G G A A A A G A G TAA $A \operatorname{GGCA} A G G G G G C A A T G G A A A A A G A A G A C A$ AAAGGGAAAAAAAAAAGGGGAAGGAAGAAGAAGGGGAAAAAA A A A A G A A G A C G A G G G G A GCCGGAACCAGAGAAAAAAAA G GAG AACGGGACGGCCAAGGCGCCGGAGCAAGAAGGCCGGAAAAAA AAACCCAGCAGAGAGGAAAAAAAACCAAAAAGAGGGGACCAA A G G G G G T T A A G G A G G G A A A A G G G G G G G A A A A G G A A A A C A A A A GAAAAAGGGAAAAGGGGGAAGGGGAGGGAAAAGAAAGGGGGG A G G G G GAA A G A A GAGAGGAAAAAAAGGAACGGGCAAGAAAAG G G GAGGGGAGGGGGGACCGGGGGGAAGGAAAAAAGAGGACAC G G GAA $A \operatorname{GGAA} C \subset G G A G C C A A A A A A G G A G G G G G A G T A G G A G C A$ G GCCCAAAAAGGAACCAAAGGGAGAGCCGAGGGGAGAGAAAA GACCGGAAGGAGAAGAAAAAAACCAAGGGGCCCCGAGAAA GA AAGAAGATCCGAAGGGCCGGGGAAACGAAAGAGGCCGGAAAA
 G GAAAGGGGGGAAAGGAGAAAAAAGGCCGAACAAAACCAAAA GAGAAAAAGGGCAAAAAAAGAGGAGGGACAAAACAAAAAGAA $G G A A A A G G G G G G A G A C A A G G A G G G A A G G A G A A A G C C G C A G B A$
 A G A A G GACAA G GAAAAAAGAGAAAAAGACAAGGGGGAA GAAA G G G GAAAAAAGAAAAACCAAAGGGCCACGAGAAGCCGAGAAG GAAGGAGGGGCCAGCCGAGAAACCCACAGGGGAACCGGAAGA G GAGAAGGAAGAAGAAAAACGAAGGGAAGGGAGAGGAAACBG G GAACCGAGACCCAGGGACAGAGAACCCGGCCAAAGAGAGAA G GAAAAAAAAAAGGAAAGGGCCGGAAAGGGAAGAGAAAAGGG A A G G G GCCAACCCCGGAAGGAAGGAAGGGGGGGAGAAGAAGG G GAAAAGAAAGGAAGGAAAACCGGAAGGAGAAAAGGCCGGGA G G A A C C G G A A A A A A A A G GA A G G A A G G G G G G G G C C G G G G C C G G A A G G A A G G G G A A A A A A A A G GGGCCAAGGAAAAAACCCCAGA G ACGAGGAGGGAAAAAAAAACAGAGGAACAGGGAGGGGGGGGG A A A A A A G G GAGGAAGGCGATGGTTAAGGGAAAAAAACCCCAA AAGGGGAAGAAGCAGAGAAAAGAAGGACAAGGAAAAAAGGGG

GAGGAAGGAAGGAAAGGGCCAAAGAGAGAGCCAGGGGGAAAG A A A A A A A ATTAAAAAACCAAAAGGGGGGAAGGAGAGGGAAGG AAGGGAGGCCGAAAAAAAGAGAAGAGAAGGGGAAAAGAAAAA GGCCAAAAGGAAAAAGACAGAAAAAAGGGAAAGGAAGGACAA G GAA A A G G G G G GAA $A \operatorname{GA} A A G G A G G A A G A A C C G A G G G A G G G G G G$ C CAAAAGGAAGGGGAAGAGACCAAAAAAAGGAAACCAGAGAA A G G GAA A A GA GAAAAAAAAAAACCGGAAGGGAGGAGAAGAA G G G A G G G A A A A A A A G G G G G GCC G G G G CA $\mathcal{A} G G A G G C C C C A G G G$
 AACAGGGAAGGAGGAGAGCCGGAGGGAAGGCCGACCAAGGGG
 G GCAGAAGAAAGAAGGAAGGAAGGAAAAAAAAGGGAGGGGAT A G G G A G G G A A A G A A GAGAGGGGAAAAAAAAGGGGGAAA G GAAA G G G G G GAA A G G G C C G G G GAA $A \operatorname{AGGACAGGGAAAGACCGAAGEG}$ AAGGGGAGAGGGAAAAAAGGCCAAGGAAAGAAGAAAGGAGCC G G G GCCAGGGAAAAAAGGAGGAGGGGAAAGGAAGAAGAAGAG G G G G G G G G GACCAAGACCAACCAAGGAAGAAAAGGGGGCAAA G G G A A A G G G G A A A A A G GAGAAGGAAAAAGGAAGGGAGGAGAA GAGGAGGGAAGGGGAAGAAAAAAAAGAAGGGGGGGGAAAGAA G G G G A A A G A A A A G G GACC CA A G GAGGAAGAGGGAAA G GA G T T AAAAACGGGGTTGGGGCCGGAAAAGGAAGGAAGGAAGGGGGG G G G G G GAGAGGGAAGACAGGACAAAAAAAGGGGAGGAAAAAG ATGAAAAAGGGGAATTGGAAAAACGGGGAAGGGGGCAGAAAA G G A G A G A A GAAAGGAAACAGAAGAGGGAGAGAGAGAAAAAAC A A C C A G G A G A G A A G G A A A G GAAA A A A A G GACA A T T G G G G G G A A A A A A A A A A G G G GAGGGAAAGAAAAGAAGAAGGAAAAGAGACC AACCGGCCAAGGGGGGGACAAAAAGGACGGCCGGAAAAAAGG A A G G A G G A G G A G G A G G T T C C A A G G TAAA A A CAGG GAAAA A A G A GAA $A$ A A A A A A G GAGGACCCAAAGGGACAGGATACCGGAGAG GAACGGAGGGGGGGAAGGGGAACAGGGGGGAGGGACAAAGAA A GAGGAGAGAAACAGGCCGAGGGAAAGGAGAGAAAAAAAGCC AACCAAGGAAGGACCCGGGGAAAAAAAAAAGGAGAAAAGGAA AACCAAGGAGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCGG G G G G A C A C G A A C G G G A G G A A G G A A G G A A A A G GAA $\mathcal{A} G G G C G G G$ A A A A A GAA A G A A C C G G GAGGCAGGGAGAGAGAGGGGGAAAAA G GAAGGAGAACAAAAAAAAACCGGAAAGAGAGGAGGAAAACC G GCCAAGGCAAGAGAGAGACAGGGTTGAGGGGAAGGGAGAGA A GAAA A GACAGAAAAAAGAGAAAGAGAGGAAGACAAACAAAA A C C C G G A A G G G G A C A G A G G G G A C C G G G G G G G G G G A A A A G G A A G G G G G G G G A A G GAAAA A G GAAAAGGAAGGCCGGAAGAAAAACC G GAA $A \operatorname{GAA} A G G G A A A A G G A A A A C C G G A A A A C C A A G G A A G G G G$ A A C C A A G G A A A A G GAA $A \operatorname{GGGGGGAAGGCCAAAAAAGGCXAAGG}$ A A G G G G G G A A C C G G G G G G G G C C G G A A G G C C G G G G A A G G G G A A A A G G A A G G G GCCGGCCGGCCAAAAGGAACCGGGGCCGAAACC A A G GAA A GCCGGCCGGGGAACCAAGGAAAACCGGGGAAGGGG G G G G G G A A G G A A G G A A C C G G G G G G A A G G A A A A A A G G G GAAA A A A A A A A A A A A G GAA $A \operatorname{G} \operatorname{A} A A G G A G A C A T G G G G A A G A G G A G A G G G$ AACCAAGAAGTAAAAAAGGGCACACCCCCCAAAAGGCCGGGG AACCAAGGGGGAAAAAGGAGGGCGAGAGCCGGGGGGGGAACA ACGGAAAAAACCAAAAAGAAAAAAAAGGAAACBAAAGGBGAA A A G A A G A A G A A G G GA A G G G G G G G G A G G A A C A G A A C C G A G G G G AA $A \operatorname{GGG} G \mathrm{G}$ GAAAGAAGGGGAACAAAAGGAAGGAGGAGGGAAAG
 $G G C C C A G A G A G A G A A A A A A G G A A C G G A G A A A C A C G G A$
AAAAAGGGGGGGGGGAAAAAAAAAAGAAGCCGGAGAAAAGG ACCAAGGACGCCAAGGGGAAAGGGGGGAAGACCACCGGAGCC G GACGGGGGGAGGGGGAAAAGGCCAGAAGGAAGGGAAAGGGG A G G GAA A A G GCC G G GACAGAAAGGACAAAAGGCAAAAC G A A A A G G G G G G G G G G G G G G A A G G G G A C G GACGGCAACGGGGGGCAAA

A GAGGGAAGAGGAAGAAAAGGAAGAGAAGAGACAGGCCGAGG
 G GCCAAAGGGAACCTTCAGATTAGGAATAAGGGGGGAAAAAG GAGGGGAAAAAGAGAAGGGGAAAGGACAAGAGGGCCGGAGGG GAAAGGGGAGCGGCCCAGGAGGAAAAGGAAGGGGAACCAAGA A A A G A GAACCAAGGAAGGCCGGAGAAAAGGAAAAGGGCAAAA
 $A G A C G A G G G G A G G A G A A A G G A A G G G A C A G A G G G G A G G A A A A G$ A A A A G A A G A GAAGGACAGCCGGGGAAAGAGCCAAAAGAGAAA AAGGGGAAGGAAGGCCAAAGAGGGGGAAAGGAAGAAAAAGAA AAGGCCATACACGAAAAGGAAGGGGAACAAAGGGATAAGGGG
 A A G A A A A G A A A GAA AGAGCCGGGACCGAAGAAAAAAAACAAA A A C C C C A A A A A A A A A A A A A A A G A A G G A GA GA G G G G G G G G G A A G G A A A G G G A GCC C G G G G G G A G G G G G GACGGGAGAAAA GAAAA GAGGGAAAAAGGGGAAAAAAGGGACAAGAAAAAGAGAAAGAG GA $\operatorname{G} G A A A A A A A G A A A A A G C G G C A A G G A A G A G G G A C A A A A G A A$ A A G G G G G G GAAACAGAGAAGGGAAGGAACCAGGGGGGAACAG $G G G A C C A G G G T T A A A G A A A G A A G A G G G G G G A A A G G G G G A A G G$ A GAGGAAGCGAAAACCAAGGAAACAAAAGGAACCCCBAACAA GAGGAGGGAAGGGGGGAGAAAGCAGAAAAAGGAGAAGGGAGG A A A A GA ACGGGGGGGGGGAAAAAGGGGGGGAGCCAGAGAAAA G G G G A A G G A A A GAAAA $A \operatorname{A} A A G C A G G A G A G G A G G G G G B A A A G C C$ A A G A A C G A A A G G G A C A A A A C A A G G A A G GA G G G A G G G A G G G G G
 A GAAAGCCGAAGACCCGGGGAAGGAAAAGGAAAAAAGAAACC GAAAAAAGAGCAGAGAGGGGGGAGAGCAAGGAAAAAAAGGCC
 AAGGGGAACCTTGGACCCGGAACCAACAGACAAGGAAATAGG GAAGGAGAAAAGAAGAGGGGGGAGAAAAGGGGCCGGCGAGGG CA $A$ A $C \subset G G G G G G G G G G A A G G A A A A A A A A A G G A A A G A C A A G G G$ A G G G G G G GAGGGAGAGTTGAAGAAAGAGGAAGGAGAACAAAA CAGAGGAAAAAACAAAGAGGACGCCCGGAAGGAAAAGGAAAG C C G G G G A A A T A GAGAACCGGGAAGCCCCGAGGGGAC GAAA GA G G G A A A CACAA GAAGACAGGGAAGAAGATAAAAAAAAGACAA C C A GAGCCGACCAAAAGGCCAAAGGGCCAAGGGGGACABAAA A A G G G A A G A A A GACAAAAGAAGAACCCCCCGGCCCCACAGCA G GAAAAAAGGTTGAGGGGCCGGCAGAAGGAAAGACAGGGGAA A A G A A A A A G G A A A A G G T T G G A A G G A G C C A A A GAAAAAA A GAA
 CAGAAAGAAGGGAGAAAAACCCAAAAAGGGAAGAAAAAGGGG AA G G A A A A A A A A A A A G G GAAAAAAGGAAAAAAAA GAAAAAAA AAGGAAGAGAAAAGAGAGGGGAGGAAGGAAGAGGAGGAAAAG ACGGAAGGGACCCCGGAGAAAGAAGAAACAGGGGACAAAGAG A GAGATGGACGGGGAAGGGAAGGAAAAACGGGAAAAAAAACC AAAACCCCGGAAGGGGCCAGGAAGCCGGAAGAGGGGCAGAGG CAGGACAAAGAAGGAACCGAGGGAAAAACAGGCCGGGAAAAA GAACGGGGGGGGAAAAGGGGAAAAGGCCAAGGACGAAAGAGA A G GAACTAGGGGCCGGAAGGAGGAAAAAGGAAGGAAGAAAGA AC G G G A G G G G G G A A A A $\mathcal{A} G T A A G G A A A A A G G G G A A A A G G A G G G$

 A G A C A G A A G G A A A A G G A A A A A A A ATTAAA GACAA GAGAAAAA A GACAAAGAACCAAAACCGAGGGGGGCCGAGGACTTCCAGGG A G G G A A C A GAC GCCAGGGCAGAGGAAGGAAAAAAAAGGGGTT
 G GACATGGGAAGGACCAGGGAAGGGGGGAAAAGGAGGGAACA A A A G G G G G A G A A A A A A A A G G GAC CAAAAAGGGGGGGGAA G G C C AAACGAAGAGAGAAGGAGCAGGAGAGAAGGAAAGGGGGAGAA

AACCAAAAAAGAACGGAAGGAAGAAGGAAACCGGAAAAGAAA C C G GAA A A A A A C G GAGGAGGGGAAAGAAGAAGGACCGAA GAA A ACCAATAGGGGGAAGGGAAAGAAGGCCAAAAAAAAAAAAAC A GAGGAAAGACCCCTACCAGAGAAGGTTAACCCCAAAGAACC AAAAGGGGGGGGAAAAAATACAAAGGAAGGGGGGAACCAGAAA $G G A A A A A A C C G G A A A A G G A A G G A A A G A A G G A A A A A A G G A G A G$ $A G A G G G G A A G G G A G G A A G C A G G G A G G G G G G G G A A G A G A A A G G$ GAAAGGAGGGGGAGAAAGAAGGGGAGAGAAGGAAAAAAGGAG A G A A C A A A A $\mathcal{A} G G G G G G G G G G A A A A A A A A G G A G A G G G G A A A T T$ G G GAAAGGGGGGAAGGCAGAAAAAGAAGCCCATAAGAACAAA GAAGCAACGGAAAAATGAGAGAATTAACAGAAGAAGAGAAGG G G G A G A A G G G A A G G A G T A A CAGGGCCAGTAACGGGACAA A A G G GAA A A A A A A G GAAAC GAAAGACCAAGGGAACGAAGGGAGAG A GAACCGGCAGACAAAGGCCAAGAAAAAAGGGAGGGGGCCCC G GAGCGGAGAAAGACCAACGGGAGGGGGAACCAAGGAAAAGA GAAAGGGGAAAGAAAGGAGGAACCGAAGAGCAAAGGTTACAA C C G GCCGGAAAGAAAAGGGGAAGGGGAAAACAAACCAGAGGG G GAA A G G G G GAACAGAGGAAAAGAGGAAGGAGCAAAGAATGA CCAGCCAAGGAAAAAAGGAAGGGAAAGGAAAAGGAAGAGGGA A GCCAAGGAAGGGGGGGCCAAGAAGGCCAGAGGGAACCAGAG A GAACCGGGAGGAAAAAGGGGGAAAAGGAAGGGGAAGGAGGG A GAGGGAGGAGGTAAAAAGAAGAGCCGGACAAGGGGCCAGAA
 GAAAAAGGCCGGCCGGGGAAGGAAAAAAGGAAGAA GAGGGGG G G G G G A A G A A G GAAAAAACAAAAAGGGAGGAAGGCCGGAAAA G GAGAAAACAGGAAAACCAAGGAGAGGAGGGAGGGGAGAGAA G GAGCCAAGGTTGGGAGAAAAACCAAAGAAGGAAAGGAGACA A A CAAAAGAGGGGGAAAAGGAAAACCAACCGGTTAGAAAGCA G G A A A A A A G GAACCAAAAGGGGGGAAAAAAAGAAAAGAAGAA AGGGAGGACCGGAGAAAGGAGACCACACAAAATTGGAAGGAA A A G G A A A A G G A A A G A G G A C C G G G G G G G G A A A A C A A G A G A A A G AGCAAAGGAAGGAAAGAAAACCCCGGGGGGGGAAGGAACCAA AAAGAGACAAAAGGCACCAAAAACAGGGCCGGCCCAAACAGG $A G C C A G A G G G G A A G A C G A A G C C G G A G G G A G G G A G G A G G A A G G$ C C G A A G G G A A G GA G C CA GAAAACCAGTAGAACGGCCGGAAGA $G G A A G A A A G G G G G G G G G G A C A G G G A A A A A A A A G A A A A A G G A G$ CAAA $A$ A A GACA $A \operatorname{A} A G A G G G A A G G G G G A A G G C C A G G G G A A A A A$ A A G GACGAAAGAGGCCGAGGGCAGGACGAAGGGGAGAAAGAA G G A G A GAGCCGGGGAGAAAGAAAAGAACAAAAAGGGCCGGGG A A G GAACAATGAAAAACCGGGAGAAAAAAAGGCAAAGAAAAA A A G A A A A C A A A A A A A A A A A A G GAAAAGGAACCCCAAGGAACA A GCCAAGGGAAAACAGAAAGCCGGAAAAAAGGCCAAGAAGAC AGCAGAAAAGACAGCCAAAAGGCCGGAAAGGGGAGAGGGGAA G G G G A A G G CAA A G GAGGAAAAAAAAAAACCAAGGAAGGCCGG G GACAGAGCGGGGGAAGGACAGGGAAAGGAGCGAACCAACAA
 C C C C C GACAGGAGAGAACAAGAGGAAAAAGGAAAAAAAAA G G $A$
 G G G G G G G G A A C C G GAAAAGGCCGGAAGGAAGGCCGGAAGAAA ACGGGAAAGGAGAGAGGGGAAAGGACGGAGAAGGAAAAAAAA A A A A G G G G T T A A A A A A A A G G G G G G A A A A A A A A T T GAAAC C G G A A G A A A A A A A G G G GAGACCCGGTTAGAAAAAAAAGGGGACAA
 A A GAA A A A GAGGAAGGAAAAGGGGAAGGAATTGGAAA
AAAGGAAGACCGGAGAAGAAGAAGGGGAACCGGAGGAGCGA $A G C C G A A G C C A A C C G A A G G G C A G G G G A A C A A A A A C G G G B A G G$ G G A A A GAA $A \operatorname{GCC} C A G G G A A G G G G A A A G A A A A T A A G A A G A A A G G$ A GACCAAAAGAAAAGGCCGAGGCCAAAAGGCCGGAAAATTGG AGCGAAAGCAAAGAACGACAACAAGGAGAAGGGGAACCAATT

AAAAACAGAAAGAAGAGGAACAGAAAGAAGGGGGAGAACCGG
 A GCCAA $C$ C G G GAGAACACCGGGGACAGGAAGAGAAGGGGAG G G G GCCGGAAAAGGAAAGCCAAAAGGACAGAGAATTAAGGGAGG G G G GCCAAGGGGAGGAAAGGACGAAGGGAGGGAAGGAAGAAA G GAGGCGGCAAGAGGGAGAGCCAAAGGGGGAAGAGGGGGGAG A A G G A A A A G G G GCAAA $A \operatorname{A} G A G A A A A A A C C A A A A A A G G G B A A G G$ A A G G G GAAAGGGCCGGGGCAGGAAGGGAAAAAAAGGAAGGGG G G A A G G A A A A G G G G G CAG G G C A A G G G A A G G G GA GAA GAC C C C AAAGAGAAGGGGCCAAGGAAAAGGAGGAAAAGATCCGGACGG G G G GAAAGACGGAAGGGGGAAGGGGAAAGGGGAAAAAGAGAC
 A A G G A A G G A A G G A G A A A A A A A A G G G GAGC GAGCCTTGAAG G G G GAGGGAAGGGGAACCGGAAGGCCGGAACCAGGAGAGAAAGG AAAAGGCCGAAACCGGGAAAAAGGCAAACCAAGGAAGGAACC G G G GAA A A A C G G G G G G G GC CAAAGGAGGGGCAAAAAGAAACC
 AAACCCGACAGGGGGAGAAGAGCACAAAAAAAAGGACAAA GA $A C A A G G A A G A G G G G A A G C A A G G A A G G A G G G G G G A A A A G G G G A$ GAGAAAGGAGGAAGAACCAAGGGAACGGAGGGCCAGCCAGGG GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACAAAAG C CAAA $A \operatorname{GCA} A A A G G A A A A A G C C G A G A G G A A G A C C A G G B A A A A$
 GAGGAAAGACGACCGGAGAGGGGGAAACGAAGAGAAAAGGCC G G G GCAG G G GAAC C G GAAGAAAAGAGAGAAGAACCCCC G G GA CAAAAAGGGGAAGAGGGGAAGGAAGGGGGGAAGGGACAAAAA ACAGGGAGAAAAGGGGAAAAGGAAAAGGGGCAGAGAAGAGAG A GCCAAGGAAGGGGGGGAAAGGGGGGAAGGAAGAAGAAAAAA GAGGGGAAAAAAAAAACCCCAAGGGGGAAGAGGGCACAAGAC AAAGAGGAGGAGCAGACAGGGGGGAAGGAGGGAAGAGGAAAA AC GAGAGAGAAAGGCCAGGAGAAGAGCCGGAGAAAAAGAAGG GAAACCGGGGAGAAGGAAGGAGCCGAAAGGCCGAAAAAAGAA
 A G G G A G G G G G A A G G G G G G A C A A A A GAAAAAAA A G GA GAC C G A AAGGAAAGAAGGCCAAACCCGGAAAAGGAAGGCCAAAAACAA G G A G G A A A G G A C G G G G G G G G G G A CAGGAAGCCGGGAGAAAAA $C C G G G G A G A G A A G A A A G G T T G G A A G A A G A A A A A A A C A A A G A A$ AAAGAGCCCCGGAAGAGGAAGGAGGGAAGGAACCAAAAAAAA G G G G A A A G G G G A G G G A G G A G A A G G A A A G A A GAA $A \operatorname{G} G G G A A G G$ $G G A A A A A A G G G A A A G G G G A G A G A A G G G A C A A G G G G G G G A G A A$ A A G G A A G G G GAAAC $A \operatorname{A} \operatorname{A} A G G G G G G G A A G G C C G G T T G G A A C A A A$ A A A A A A G G A A A A G G GAGGAAGGAAGGAGGGGACCCAGACAA G A GAAAGAGAACAAAAGGAGGGGGAAGAGGGGGGGCCGGCCCC GAGAGAGGAAAAAGCAGGGGAGAAAAAAAAGGAGGGGGCCGG GAAAAGGGAAGAAGCCAAAAGGGAAAAAAAAAAAAAAACCGG A A G G A A $\mathcal{A} G G G G G G G A G G G A G G A G G G G G G A A A G C C G G G G A C A A$ AACCAAGGAAGGAAGAGGGAAAAGAACCGAAGCCAAAAAAGA A A GAA $A$ AA $A$ CAAAAA $A \operatorname{A} A A A A G G G G G G A A A A G G A A A A A A G G G G$ AAGACCAGACAAGGCCAGCCGGGAAAAAGGAGAAGAGAAGGA A G G G G A C C A A A GAAAA A G A A C CAA G GAAAGGGAAAAAGAGCC GAGAAAGGGAGAAGTAGGGGGGACACGGGAGGGGAGGAAAGA A G G GCCGGGAAAAAAAGGGGAAAAAAAAGGAAGGGGGGAAAA
 G G G GAGCCGGAAGGCAACGAGAGGGAACGAAAAAAGGGGGAA G GAA A ACAAACCCCGGAAGGGGGGAAAAAACCTTAAGGCAAA G G G G G G C C A A G GAA A A A A G G G A G G A A G G G GAA A A A A A G A A G G GAAAGGGGGAAGGACCGGAACAGGGGGGAGGGGAAAGGAGGG A A TA G GA GAGAAAACCAAAAGGAACCGAGAAACCAGAGAA GA AAAAAAAAAGAAAAGGAAGGGGAAAAAAAAGGAAGGAAGAGA

A GAAGGGGAGAAGGGAAAAAAAAGGGCAGGGGAAGAGAGAAA G G G G T T G G A A A A G G G G G A A A A A G G A G G A T TAACCAACCCCC C
 ACAGAAGGAGGAGGAAGAGGAAGAGGGGGGAGGGGGAAAAGA G GAAGAAACCAGAAACGGAAAACCGAAAAAACACGCGACAAG A G A A A GAAA A $A$ A A G G G GCCGACCGAAGAAGGGAGAGAAAAGAA AGCCGGAAGGAGAACCGGAGGAAAAGAAGAGAAGAAAAAGAA AGGAGGGAAGAAAAAAAAAAAAGAAGCCACGAAGGGGGAGAA G G G G A A G G G G A GACAAAAAAAGAGCGAAAAGGAACCAAGGGG A GGGAAAAAGGGACGAAAGAAAAAGAAAAAAGCAAAAG GAAA AAAAAAAGGGAGAGAGGGAAAGAGAAGAAAGAAAACGAGAAA $G G A A A A A G G G A A G G G A G G G G G G A A G G G G G A G A A A A G G G A A A A$

 AACCAAAAGGAAGCAGGGCCGGCCAAGGGGAAGGGGGAGAAA AAAGACAACACCAGGAAAGGAAGGAAAAGGAACCGBAAGAAA

 $A G C A A G G G A G G G G G A A G G G A G G A A G G G G G G G A A C G B A A A G A A$ A A G G A A G G A G A G G G G G A G A G A T A A G G G A G A C C A A A A C A G G G G A A G G G G GAAGAAAGCAGACAAGGAAAGGAAAGAAGGAAC CT T
 A A G G G G G G G G A G G A C A G A A A A G A A G G G G C C G G A A C C G G G G T T AAAGGGCAAACCCAAACCAAGGGGAAAAAAGGCAAGGAGACA A GAAA A A A G G G GAAGGCCACAACCGGAAAATAAGAAAGAGAA A A A A G GAA $A \operatorname{GA} A A G C A A A G G A G G A T T A A A C G A A C G G A A C C G G$ AAGGAAGGGGCCGGAAAAGGAAGGCCAAAAGGGAAAACAGCC G G G G A G A G C A A G G G G A A G G G G G A G G A G G G A GAA T G G G G G G A A A A G G G GAGGGAAGAGAAGAAAAGGAAAAAGGGCCACAAACAA GAAGAGAAGGAAGGAAGGGAAAAAAATAAGGAACGGAAAACC C CAAACGGGGAAAAAAAACAAGAAAACCGGGGAGAAGAAGGC AGCCGGAAAACCGGGGGGAAAAGGAAAAAAGGAGAAAAGAAA G G G G G G G A A G G A A A A G G GAAC C G G G G G GAAAA A GAA G G C C G G A A G G A A G G A A G GCC G G A A A A A A G G T T G GAAAAAACCGG G GA A C C G G G G A A A A A A A A G GCCGGAAGGAAGGAAGGGGGGAAAACC $G G A A C C G G A A G G G G C G A G A A G G A G A G G G C C G A A A G A A A A A G G$ A G G GAA A G G GAA $A \operatorname{AGGGAAAAGGAAGGAAAAAAAGCAGGAGGG}$ GACCGCAAAGGGAAGAGGAACAAGAAAAGGGGGGGAAAAGGG A A A G G A G A A A A A G A A G G GAGGGGGGAGGAACCCAGGCAGGGG C C G A A A G GCC G G GAA $\operatorname{CA} A A G A A A A C A A G G A G A A A A A A G A G G A G$ T T G G G A A A A A A A A A A CAAAAAC GAAAGGAGGAGACAGGGGGG
 CAGAAACACCAACCGGAGAACCAAGGGGAGAAGGGGAGA GAA $C \subset A C A A G A A A G G C A G A A T G G G G A G A G A G G A G A G G A A G G G G G G$ G GAA $A \operatorname{GAA} A C A A A A A A G G G G G G A A A A A A G G G G G G G G G G A G A A$ A A A ACCAAGGAAAACCAAGGGGCCGGGGCCAAGGAAAAGGAA C CAA $A \operatorname{GGGAA} G \mathrm{G} C \mathrm{C} A \mathrm{~A} A \mathrm{~A} A A A A A A A A A A A A G G G G G G A A C A A A$ AAAACCAAGGGGAAGGGGAAGGGGGGGGAAAATTAAGGGGGG AAAAGGAAGGGGGGAAAAGGAACCAAAAGGGGAAGGCCAAGG G G G G A A G G A G A G G A A A A A A A G GCCTTAAGAAAAAAAGAAA G G GAAAAAGAGAAGAACCCCGAGAACCAAAAGGAGGGGGGAGAG AAAGAGGGGAAAAAGAAAGAGGAACCAGAAGGGGGGGGAGAG G G A A A C G A A A G G G GCC GAGGCC GAGAACGGCCCCAA GAAAG G AAAGGGTAACGGTTCCGGCCAAGGGGGGAAGAAGGGG
A G G A A A A A A GAAACCGGGGGGGGGAGGAGAAGGGGAGCAGG GAAGGAAAAGAACGGGGGAAGGAAGAAGAAAAGGAAAAAAGG A A GA $\operatorname{A} G A A A A G G A A C A G A G A G A A G A G G G G A C C G A A G G A A G G G$ A GCC C A A A A A G GCAGGGGGGAGCCCAGGAAGAGBAAACAAAA A A G G G A T T GAAAGGAAGGGGAAAAGAGGCCAGAGAGCAAGAA

A A $\mathcal{A} A \operatorname{A} A A G G G A G G G G G G G G G G G A A G G G G G G G G A A G G G G C C G G$ AATTGGGAAGGGAAAAAAAGAGAAGGAGAGAGACGAAGACBA GGAGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGAAAAA GAACGAAAGGGAAAGGGGAGAAGGGGGGAAGGGGGGCCAGAA GGCAAGGAAGAAGGGGAAGGGGCAAGAAAACCCCGGAAAAAA
 G GAA $A \operatorname{GAAAAAGGAAGGAAAGGAGAGGAAAGAAAAGGCCAGGG}$ GAGAAACCAGAAAGAAGGAAGGAAAGGGGGAGAGCCGGGGGG
 $C C A A A A G G A A A A T T G G G G G G A A C C A A A A G G G G A G G G G G G G A C$ G G G G G GAAGGAGAGAGCAGGCCAGAAAAACAAAAAGAGGAGA AAAAAGGAGGAAAGCCGGGAGAAGGGAGGGAAAAGAAAAAGG GGCCCCGGGACCAGAAGGGAAAGGACCAGGGGACGAAAAAAA G GAGAAAAGAGAGGAGGGGAGGCCGGAAGGCCGGAGAAAAGA $A C A G A G G G A A C C A G A A A T A A G A G G G G G G C C G G T A A G A A G G G G$ A GAGGAAAACCCAAGGAAGGAAGGAGGGGGAAAGCAGAGGGG ACACGGGAAACCGGAAGGGGCCGGGGAAGAGGGGGAGACCAC G G G G G G G GCCAACCGGCCAAAGGGAACCAGAGAGAGGGGGAG CACACGAGAAAAAAGGAAGGAGGGAAGGACGAGAAGACACGG GAAAAAGGAACCAAGGAAAAGGAAGGGGGGGGCAAGGGGGGG G GAGAAGGACGGAGGGAAAAACGAAAGGAAAAGGAAAACCGG A GAGGGGAACGGAGAGCCGGGGAGGGGACCAAGGCCGGGGGA G G G G A A A G A G G GC C A A GAGGAACC $\mathcal{A} G G G G G G G A G A A G G G G G G$ GAGGGGGAGAGAGGAAAAAAAAGAGGGGAAGGACAGAAAGGG GGAAGAACGGGAAAACGAAAGAAACCGGAAAAGAAGAGGGAG $C C G A G A A A G G A A C C A A A A G G A G G G G A G A A A G G A G A G G G G G A A$ G GAGAGAATTGGAGCCAGGAGGAACCAAGAGGGGCCGAAAAAA G GAAAAAGGGAAAAAAAAGGGGGGGGCCGGGGAAAAGGGGAG G GAG $A \operatorname{G} A A \operatorname{A} G A G A A G G C C G G A A G G A G A G C A G G G G A C C C G G A G$ A G G GAACCAGCAGGAAGGGGAAGGAGAGAAAGGAA GGGGGTA G G A A G A G G C A A A A A GA $A \operatorname{GGGGGAAGAAGGGAAAGGGAAAGGAT}$ G GAA A A A G G G G G G G A A A C G G G G G G A A A A A G G GAAAACAAAC C G G G GAGGAGAAAGGGGAACCAAGGCCAAGAGAGGAGAACAAA GACCGGAGGGGGAAAGGGCAGAAAAAAAAAAGAAGGCAAAAA C CAG G G C C G G A GAA A A GAGGAAGGGGGAGGAAAACCGAAGA G G G G GCACCAAGACCAAGAGGAAGGCCGGCCGGGAAAAGTAAC A G G GAAAAAAAGGAAACCGGGGAAAACGCCCCAAGAAAAGAC GAGAGGAAAAGGAGGGGGAGAGAGAGACCCAAAAAAGGGGAG C CA GAAAAAAGGAAAAAAGAGGGGCCAAGGAGAGGAGAGGGA TAAAAAAAAAAACGGGGGGGCCGGAAGACCAGAAAAGGGGAG AAAGAAGACCGGAACCAAGAACAACAGAGGGAGGAGGGAAAG GGAGGGCACCAAGAGGAAAAAAAAGACAAGGGAGGGGAAAAA GGCCAGAAAAAGGAGAGGAAGGAAGGAGGAAAAAAAAACACAA GAGGAAGGAAGGGGAAACGGAAGGAGGGAGGAGGGACAAGAG ACGAGGAAGACCAAGGACCGGAAAGAGGAACAACAAAGAAAA AAGAAACAGGAAAGGGACACCAGAAAGGAGGGGGAAAAAAGG G G GAGGGGAGAGGGGAGAAAGGGGGAAAAAAAGAGGCAAACC AAGGGGGGAGGGAATTAAAAAAGGAAAACCAGAGCCACAAAA $C C G G A A G G A A A A A G G G A A G G G G C G G G G G C A T A A A A A A A A C G G$ GAAAAAGGGGGAGGGGAAGGAGGGAGGGACAGAAGAGGAGAA G G G G G G G G G G A A A A G G G G G G A A A A C C G G G GCC G GAACAAAAA ACGAGGCCACGGAGGAAAAAGGGGAGGAGGGCGGGGAAAGAG GAAAAAGGGGGGCCAGAGGGAAAAGGAACCAAGGGGCCGGGG AGCCAAAAAAGGGGCCAAGGAGAATAAACCAGAAAAGGCAGG GAAAGGCCCAGGAACACCACAAAAAAGGGGAAGAAAAAACCC C CAACCAAGGAAGAGGAAGGGGAAAAGGAGAGGAGAACAAAC CAGGACGGGAGACCGGAAAAAAGGAAGGCCGGGAGAGAAAAG A A G GCCAGAACCGGGGAAAACCGGGGGGCCAGAAGAAC TAAA AAAAAAGGGGAGGGGAAGGAGAGGGAGGGGAAAGTTCAAAGA

G G G GCCAAACGGGGGGAAAGGAGGAGAAAAAGGGGAAAGGCC A G A A A A A G A A G A A A A A CAACAGAAGGGGAATTAAAAAAGGAC G G GAGGAGCCCAAGAGCCGAAAGGGAGACCAAAAGGCCAGAAG GAAAAACCAGAAAAAGGGGAAAAAGGGGCCAGAGGGGGACAG
 A GAGAAAGCCAAAACCAAACAACCGCGGCCGAAGAAGAGAGG G G G A A A G G GACCACAAAGGAGGAGAAAAAAAGGAGGGAAAGA A GAAATAGGACCGGGGGGAACCGGGGAAGGAGCCCCGGAAAA A A A A G A A C A G G G G G G G A A G G G G A C G G G G A A C C A G A A A C A A A G AAAGAGGAAGGGAGCGAAAAAAGGAAGAGGAGAGAAGGGGAA AACCAAAAAAAAGGAAGGAAGGAAGAAACCAGAA GAA GACAA
 A GAA A G G G A GAGAAGAAAAAGAGGAAAAAGGAGAAAAACCAG $G G A G A A T T G G G G A A A G G G C C A A C C C C G G A G A C A G A A A G T A G G$ A G G A A A A G G G GCGGGGGGAAAAGGGGGGGAAAGGAAAAGAAA G G G G G GACAAGGAAGAGAAAGGAGGGGGAAAAGGAAAGGGAA A A GA G GAAAATAAGAACAAAGGAAACAAGGGGAA GAAAAAAG A A A A G G G G A G G G G G C C A GAGGAGGAAGGGAGGAGAAACAGAG $G G A G A A G G A G G A A A A A A G A A G G G G A G A A A C A G A A G G A T A A G G$
 G G G G A A G G A A C C G G A GAGGGAA G G G G C C A A G G G G A A G G G G A A
 G G A A G G G G A A G G A A A A A A G G G G A A G G G G A A A A A A G GAAAAAA G G A A A A T T A A G G A A G G A A G G G G C C G G G G C C A A G G G G T T G G A A AAGGGGAAAAAACCAAAAGGAAGGGGAAAAAAGGGAAACCGG G G G G A A G G A A G G G GAA $A \operatorname{GGGAAACCAACCAAAAAAAAAACCCC}$ $C C G G A A G G G G A A G G G G T T A A A A A A A A G G G G C C G G A G C A G G A G$ G GAACGAAGGAGGGAGAAACGAAAGAGGAGACAAAGAACGBA A A GAAA A A A GAACCAAGGAAGGAAAGAGGAAAAAGGGAAAAG $G G A G G C A G G A A A G C A A G G C G G G G A G G A A C C A G G G A A G G A A G G$ G G A G C A G G A A G G G A A A G A G G A G A C A A G G A A C C A A G A G G G A G G G GCCAGGAACGGACCCGGGGGGAAGGAGCCACCAGGAGACGG AAGGAACCAACAGGAAGAAGAAGGAGAAAAAAGGGGAAGGGG A A A A A A T T G G G G G GAAAA $A \operatorname{A} A A A G G A A A A G G G G C A G A A G A A G G$ A A G G G G C A GAA A G G G G A A G G A A G G A G G G G G A A A A G G A A G G A A GAGGGGGAAACCAAAAAAGGGGGGCCGGAAGGAGGAGAGGGG G GAGAAAGGAAAAACCAAGGGGGAGAGAGGAGGGGAAAABAA G G GAGGACAAGGAGAACCAAGGGGGGAAGGGAAAGGAGAAAA A GAGAAACGGAAAAAAGGGGAAGGGGGGGGAAAAAAAAACAG
 AAAAAGACGGAAAACCCCGGAACCGGGGAAGAGGGGCAAGAA A A A G A C A G GACCAAAGGGGAGGAGCCAAGAGAGAGGAAGA GA AACAAAAGGAGGAAAAAAGGGGGGGGAAAAAAAGCCAAAACC ATAGAGAAAAAAGAGGCCGGCCAAAAGGCCAAAACCAAAGCC A GAGGGGAACAGGAGGAAGGAAGGAATACCAAGGCCCAAGGA G G G GCCGGGGGGAAGGAGAAAACCAAAAAAGGGGAAAAGGAA C C A A G G A A A A G GAAAAGGAAAAGGAAAAGGCAAAGAAAAAAA $C \subset G G A G G A G G G A G A A C G G G A A G G A G G A A C G A A A A G G A A A G A A$ AAAAGGGAGGGGAAAACAAAAAGGGAAAGAAAAAGGAAAAGG G G G G A A G G A A A A G G G G A G G A A GCCAAAACAAAAAA AA GAA G G C C G GCAAACCGAAGGAGAAAGAAGGGGGAATTGGGGCAAACA GACCAAGACAGAAAAATACAAAAACCGAAGAGGAGGAAAAGA GACCAAGGAAGGGGAGAGGGGGCCACGGCCGGAAAAGGAAGB AAAAGGAACCCCAAAGGGCCCCAAGGCCGGGAACAGA
GAAGGAGAGACCAGAGAGAGGAAGAGGGGGGGACAAGGGGG A GAA A G G G G A GAA $A \operatorname{AGGGCCGGCCGGAAGGAAAAGGAAAAAAGG}$ C C C A A A A A G G G G G G G G A A CAGGAGCCA GAGAGGAAAGGAAG G GA GAG GAAAACCGGAAAAGGGGCCAAAAGGAAAGGACAACCC A A GAAAAGAAAGGGAGGGAAGGAGAGACGGAGAGCAGAAGCA
$C \subset A G C G C C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G G A A G G$ A A G G G GAA A GCAAAAAGAGGCCAGGACCGGGGAAGGAACACC A ACCAAGGCAGAAAAAAAGGGGGGGGAGGGAGGACAGACAAC ACGGAAAGGCGGCCGGGGCCAGAACAGAGACCAAAGAAGGGG GAGGAAAAAAGGAAAGGAAAGAGGAAAGCGAAAAGGAGAAAA
 A AACAGAGAGGACAAGAACGAAAAGGAGCCTTAACCAAAACC A A G G G GAA A G G G G G G G G G G G A G A A C CAGAG GAAA A G GAA A A A G G G G G GCCAGAAACAAAGGGGAGAAGGGGGAAAGGGAAAAAA GAAGCCGGGGAAAAAAAGAGGGAAAACAAGCCCAGAAAAAAA CCGCCCGGAGGAGGAGAGAAACAGAAGACCAAAAGAAAAGGG G G A A A G A G A A A G CA $A \operatorname{GCC} G G C A G G A G A A A G A G G G G G A G A A G G$ A A A G A A G G G A A G A G G G G A G G A A G G A G G A G G G A G A A GAAC C $\mathcal{A} A$ A G A T A G G A A A G A G G C A C C A A A A A A G G G G G G G A G G A G G G G A G G AAAAGGAAAGGGCAGGAAGAACGAAAAAGGAAAAGGGGGGGG GAAGGGGGAAGGAAGGGGTTAGCAGAGGGGAAGAAACAGAGA A A G GAGCCGGAAGAAGGACCAAGGAGAAAGCCGGCCAAAGAA G G A G A A G G G G G A A C C A G G G GAGGGGGAAGAAAAAA GAA G GAA
 G G G G A A G A G G G A C C A A C C G A A A G G C C G G A A A A G G G G G G A A A A G GAAGGGGAAGGGGAGAGGGAAGGGGGGGGCCGAAGGGAAAG A G G G G G G A A G A GAGGGAAGAGGGGAGGGGACAAAGGCCAAGG
 A G G GCACAGGAAGAAACCGGCAAAAAAAGGCAAAGCGGAGAA C C G G C C G G G G A A A GA G G G G G A C A GAA G GAA A GACCC CAAA C C $C \subset G G G G G G G G G G G A G G G A A G G A G A G A A A A G A A A G C C G G C C A C$ G GAACCAGGGACACCGGGGGTTAACGGGGGAAAGAGAGACAA G G A G A A G G A G G G G A C A G A G G G G A A G A G G G A A G A C C A A G A G G G AAAGCCAAGGGAGGCCAGAAGGGGACGGAAAACCAAGAAAAA C C GGCCAACCAACCGGAAAAAAAGACGAAAGAAAGGGGCGGG G G A G G G G G T T A A C C G A A G A G G G G G G G G G G G G G G G A A A A A G T T AAGGGGAAAAAGAGGGAGAGAAAAGGCAAAAAGGGGAAAACC AAAGAAAAAAAAAGCCGGAAAAAAAAAAGGGAGGGAGAAACAA G GAGAAGGGGCCGAGGGGAGAGCAAGACAGACAGAAGGAGAA

 CACAAAAAGGGGGGGGAAGGGAAAGAGGAAAAGAAAAAAAAA G GAGGAAGAGGGCCAAAAGGAAAAAGGGGGGGAAGAGACAAA A A C G G G G A A G GC G G A A A G G G C C G G A G G G G G A GAA A A G A A G A T GA $\operatorname{G} G A G A A A A G G A A G G A C G A G G C C C C G G A G G A G A A G A G G G G G$ $A A C X A G C C G A G C C A A G G G A C C G G G G A A G G A A G G C C G G A G A G$ G G GA G A A G A GCC GCGGAGCCAAAGGGGAAGGAGGCAA GAACC C C A A G G G A G G G A C C A G G G G GA G A G A A G GAGCAA A A A A G A G G A GAAAGGAAGGAACCGGCCGGGGGGGGAAAAGGAAAAAAAACC C C G GAAAAAAAAGGGGGGAAAAAAGGAAGGAAAAAAGGAGAA A A A A A A G G A A A A A A A G A G G G A A A A G GAGGGGGAGAGCAGA G G $G G A G G G A A G G G G A G A G A G G G G G C C G G G G A G G G C C G G C A A A A A$ G GAAAA $A \operatorname{A} A A A A A G G A A G G G G G G G G A A A A G G G G G G C C G G G G G G$ $C \subset A A G G A A G G A A A A G G C C G G A A G A C C A G G G C C G G A A G G A A G A$ G G G A A A A A A A A G G G A ACCAAAAAAGAAACCGAGGCCGGACAA AA $\mathrm{A} G \mathrm{~A}$ G GAAAGAAAAGCCGGAGAAAAAAAAGGGGGGAACAAA A A A A GAAGGAAAGGAAACTTAAGAAGGGGGGAGGGAAAAAAA G G G G A A G G A A A A A A CAGACCGAAAGAGGAAGGAAAAGACACC $C \subset A A G G A G A G G G G A C C G G A A A G C A A G G G G A A C C C G G G G A G G A$ AAAAAGGGGGAGAAAAAAGGCGAAGGAACCCCAAGGAGGGGG A A A A A G A G G A A G G A A A GATTGGAAGGAAAAGAAAG GA GAA G G $A$ G GAGGACCAAAGCCAAAAAAAAAGCCCCGGCCAAGGAAGGAA G GAGCAAAGGAAGGGGGGGGAAGAAAACAGAAAGGAAGAGGA AAGGAAAAGGAAAGAAAAGAAGACAACGAGCGGGGACACAGA

A GAAGAAACAAGGGTAAAGAAAAAATAAACAACCGGCCAAAG G G G G A A A C A G A A G A A A A A A G G G A A C G G GA G GAA G G G A A A C T T A A G G A A G G A A G G G G G G A A G G A A A A G GAGCAGACC GAA G GA G G G G G GAC C G A A G A A G G G A GC C G G GAGGGAAGGGAAA G GAA G G A AAAGAAAGGGCAGGAAGGGGAAAGCAGGGGAAGGGGGAGAAA G G G A G A G A A A A G A G G G A A G G G A G G A A G A A A A GA A A G C C G A C C
 G G G GAGGGGGCCAAAGACGGAAAGGGAAGGAGAAAAAAAAAA C C G G A A T A A A G G G A A A A A G G G A G G A GA G G G A A A A A G G G G G G G G GAACAAAAAAGGGACAGGGACAAGGCCAGCAAAGGCCCCAG AAA A A A G G A G G GAGGAAGGGGGAAGGAAAAGGAGCGAGAAAG GAGGTTAAGGAAAAGGGGAAGACCAAAAGGAGAAAACCAGAG
 A GAGGAGAGGGAAACCAGGGAAAAAAAAGGAGCCGGGGAAAAA G GAAAGCCAAGAAAGAAAGAAGAGGGCCAAGGAAGGAACAAA G GAAAA A A G G G GAGAGAGGGAAAAACGCGGGGAAGGAGAAGA A A G G G GAACCGGGAAACGAAAGGAAGGAAGGGCAAAAAAAGA A A A A A GCCAAAGGAAAGGGGGAGGGGGAGAGAAAGGAGAGCA ACGAGAAAAAGAAACCAAGGGGAAAAAAAAGGCCCCATAAGG A A C C A A G G A A G GCA GAAGGAGAGAAGGGAATAGAGAGGAGAA A A A A A A G A A G A GAGGGAAAAAAAAGAAAAGGAGAGGGATTCC C CAGGGCACACCCCGGCCGGGGGGAACCGGAAAAAAGGGGAA
 $A G G G A G G A A G A A G G G G G G A A A A G G A G A G A A G G G G C C A G G G G G$ G G G GCC C A G G G A A G A A G A A A G G G G A GAGAGGCATCCGAAA G G A A G GCAAACCACGGAGGGAAGGGGCCAACCAAGGAGAGAGGA G GAA $A \operatorname{GCA} A G A G G A G A C A G A G A G A A G G G A A C A G G G G G G A A G A$ T TAACACAGAAAGGAAAAGGCAAAGAGGCCAGAAAGAGCCGG G G G G G A A GCCCAGAAGAAAGAACCGGCCAAAAGGACAACCGG G G A A A GAGCCGAAGGAGGGGGGGACCGGGGGGGAGGAGAAAA G GAGGAGACAGACCGGAACAGGGGGGGAAACGCAGGAGAGAA GGCCAAGGAAAAAAGGAAGGAGAGGGGGGGAAGGGGGGGGGG A GAATTAAGGAACCGGGAAGACAGAGACAGGAGGAAAGAGAG GAGAAGACGGGAAAGGCCGGAAAGAAAAGACCAAAGAACCAA
 C C G G A A A A A A A A C C A A G G G G A G G G C C A A A GA G A G G A G G G G G G A A A A A A A G G G GAC A G G G G A A G G G A G G G G G A G G G A A A G G A G G A A G G G GAAAGAGAAGGGGAGAACAAGCGGACAAAGGGAAGAAAA G GCAC GAGAAATCCGAGAGGAAAAAAAGGGAGGGAAAAGGGG G GAAAAGGAGCCAAAAAAGGGGAAGGAAGCAAGGAAAGAGAG AAGGGAGGAGGGGGCAAAAACAAAGAAAGGAAAAGAAGAGAA G G A A G G A C G A G G G G A A T T A A G G G G A A A A A A G G G G A A A A G G A A AAGGCCAAAAAGAGAGAAGAGAGAGAACGAGGGAAGCAGAAA G GAGAAGGAAGGGGGGAAGAGAAAAGGGAAAGGGGAGAAAAAA A G G G G GAGGAAAAAGGCCGAGGAGGGAAAAGGAAAAAAGGAC $A G G G G A C G A A A G G A G A G G A G A G A G A G A A G G G G G G G G G G G G G G$ A G G A G A G G A A G A A G G G A C G GCC G A A G GAGGCCAAGCAG G G A A
 G G G G G GCCAGAGGAGAAGAGAGGGCACCGGGGGGGGAAAGAA AAAAGGCAGACCGGGAAACCAGGGCCGGGGAAGAGGGGAAAG GAGGGGGAGAGGCCCCACGGGAGGAAGAAAAAGGAGAACCAA AACCAAGGAAAAGGAAAAGGCCAAAAAGGGAAAAAAGGGGAAA G G G G A A A C A G A A A G G G A A G G G G C C G G C C G G A A G G A A C CAA A A GACAGGGGGGGGAGCCGGAGGAAGGGAGGGAGGGAAA
GAGAGGGGGGGGGCCGGGGAAGGGGAGAGAGAGAGGAGAGG A G A G G A G G A A G G G A G A G G T T A A A A A A A G G G G A $\mathcal{A} A A A A A A G G G G$ A G G G G A G G A C G A C C C C A A G A A G G G G G A A C C G G G G G G G G A A G G $G G G A C C G G G G A A G G A A G G A A G A A A A G G G A A C C G A A A C C G G G G$ GAAGGAGGAAGGGACCGGCCGGGAGGCAAAAAGAGAAGAAAA

GAGGGGAAAAGGAGGGAAACAAAAAGACAAGAAGGGAAAGAG CACCAAAAAACAGGAGGGGGGAAAAAAGAAAGAGGGGGAAGAG G G G A A A G G A A G G G GAA $A \operatorname{GGGGAAAAAAAGAAAAACAGCAAAGG}$ G GGAGAACAGAAGAAAAAAAGGGAAGCCAAGGGGGGGGAAAA AA G GAAAA A GAAAAAAGAACACGGGGGGGAGAGACAAAGGCC AC GAA A A G GAGAA $A$ A A $\operatorname{A} A A G G A A G G G G G G G G A G A G G G A A G G A A$ A A A G G A A A C A T T G A G G A GA A G G A T GAGGGGCCAGAGGGCC G G GAAAAAGGAAGGGGGGAGGGGGGGAAGGAAGGGAAACCGGGG G GAGGAAGAGGGGAAAAGAAGGAAAGAAGGAAGGAAAACAAA AAGGAACCAAGGAGAGAGAGCCAAAAGAAAAAGGGGCCGGGG
 G G G G A GA $\operatorname{G} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \subset A A A A C A A G G G G G G A A G G G A G A A A G A A G G$ ACGGCCAAAAGGAAAAGGAAGGAACAAAGGGGATAAAAGAAG G G G GA GAAAAAAACAGAAAGAAAAAAGGGGAGAAAAAAAAA G AAAAAGGAAAGGAAAAGGGAGGGACACCAGGGAACCCAGAAA AAAACCGGAAAAAAAAAAGGGGGGGGAAAAAAGGCCGGGGAA G G G GAA $A \operatorname{GGG} \operatorname{GA} A G G A A G G C C C C A A T T G G A A G G A A G G A A A A A A$ A A A A A A G G A ACCGGAAGGAAAAAAGGCCAAGGAAAAAACAAA A A A A A A $\mathcal{A} G G G G G G G A A G G G G A A G G G G A A G G A A A A A A G G A G A A$ A A G G A A C C G G G G G G G G G G G G A A A A $\mathcal{G} G A A A A A A A G G A A C C A A G A$ G G GAGGGGAAGGAAAAGGGGAAAAGGGGCCGGAAGGAAAAGA AAAGGAGGCAAAGGGGGGACAAGGGGACGGAGGACCGGGCAA G GAGAGGGGGAAAAGGAGAGCGAGCCAGGGAGGAGGAGAGAA G GAGAAAGAGAGAGGAGAAGAAGGGGAACCAAGGGGAAGAAA G GACGAGAAGCAGGAAAAAAAAGGAAGGAAGGGGGGAAAAAA AAAAGGAAAAACATCCGGAGGGCAGAGAGAAAAAAAAAAAAA GACAGGAGCAACCAGAAGGAAAGGGAGGGGGAGGGAAAGGGG CA $A$ A A GAGAGCAAACCGGGGGGCCCCAAGGGGAAAAGAAAGG CAAAAAAAGACCAGAGAAAAGAAAAAGGAGGAAAACGGAGAA C CAAAAAAAGAAGAGGGGCCGGAAAAAAGGAACAAGAAGGAA G GAGAGAGAGGAGAAACAGGGGACGGAAAGGGAGGGGAAAAC G G G G GA A A GAGGAGGAAAGGAGAGGGAGGGGGAGGGGAGACA ATCCAGGAGACAAAAGAGAAAACCGACAGGGGGGGGGACAAA
 AAAACCGGAAAAGGAAGGAAACCCAAACAAGGGGAAAAGGAA
 G G G GAACCGGAAAAGGAAAAAGAGACGAGAACAGAGAGACAG A A A A A A A GAGGAAAAAAACCGGAGAAGAGGAGCCAACACAAA A A A G A G A A A ACCGACCAAAGAGACGACCAGAGCAGGAGAGGG
 G GAAAGGAAAGAACGAGAGAAGAGGGCCAGGGGGGGCCAAGA GAAGAAGGAAGGGGAGGAAAGGAGAGCCAAAGGAAGAGGGGG GAAGAGCACCAAGGAAAAGGGGAAGGAAGGGAAAAAAAAACC G G A A A A A A A A GAATGGAGCACCACGGAGAAAAAAAAAAGGAA

 G G A G G A A G A A G G G A GAGGGGGGGGGGACAAAGACGAAAAAAA GAAGGGCCGGGGAAAGGGAAGGGAGGAGGAAAATAAACACAA AACCAAAAAGAGAAAAAATTCCCCGGAGGAGGAAACTTGGGG A GAA A GAAAAGAAAGGAACCGGGGGAAGGGAAAAAAAAAAAA G G G A A A G G G G A A G G G G A A G GCCGGGGAACCAAGGGGAAACAC AACAGAAGAAGGAAGGAAAGAGAACAAGGAAAAAAAACCCAA CAAGCAGGAAAGGAGAACAAGGGAGGCCAGAAAGGGAGAGGG GAGAGGGAGGGACCAAGACCAGGGAACCGGAAAAACCAAC GA $A G C C A G G A A A A A G G A A A A A C G G G G A G G A C C G A A A A A A A G A A G$ GAAGGGAAAAGGGGCCGGGAAAAAGAAGGGAACCAGAAGGCC A A A G G G A G T T G G G G A A G G G G C C G G A G G G A GAA A G A A A G A G C A G GCGACGAAAAGCAAGAGAGGAGAGAAAGGGAAACACACAAA G G G GAAAGGGGGCAGGAGGAAAAAAAGAAAGGAAAAGAAGCC

AAGGCCAGAGGACCCAGGGAGAAAAGGGAGAAAAGAAAGGAG GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G A \mathrm{~A} A C A A G A A G G A A A G G A G G A G A A G G G G G A A A A A G$ G G A A A A A A G G GACA A A GAAGCAAAGGCCCAGAGGGGAGACGA CAAAAAAAAGGACCACAAAAAAAAGGGGGGTAAGGACCGGGG GAAAACGGGGAGAAGGGGAGCAGGGGAAGGAAGGGAAAAAGA G G A G A A G A G G G GA G A TA A GAACAGCAGGGGGGAAAAGGAA GA GAGGGGAAGGAAAAACGGGAGGGGGGCCGAAAGGAGAAATAA G G GAAGGGGACAGAGAGAGGGGAACCCAAGCCAAAGCGAGAA
 AAAGGGAAGACATTAAGAAGAGGAAGAGGAGGAAAGAAAAGG AAACAGGGAACCCCAAAAGAAAAAAAGAACAGAAGAAAGGGG AAAAGGAAGGGACAAAGAAAAGAGCCAGAACAAGAGCCAAAA A A A A G G G G A A A A A G G G G GAAAAAGGAAAGAGGGAAAGGGAACA $A G C C A A A A G A G G G G A A G A A A G G G G A A G G G G A A G G G A G A G G G G$ G G G A A GAGGAGGGGGAACGGAAAAGAGGCCGGAGGGGAGAAC $C C T T A A A A G G A A A A A A A T G A G G G G C A G G A G A A A G A C A G A G A G$ A GACCGGGAAAGCAGACCGGAAAAAAAAACGGGGGGACGGGG AAGGAACCAAGGGGCAGGCCGACCGGCCGGGGGGGGGAGAAG $G G C C G A A A A G G G A A A A A G G A A A A A A A G G G G A A A A A G A A A A G G$ G GAGGGGAGGAAACAAGAGAGGGGGGCCAGAAAGAAAGAAGB TAA A A A A A G GAAAAAAGGGGGGGAAGACACAGAAGGGGCCCC AACAACAAGGAGGGGGAAAAAAGGCCGAGGAAAACAGAAAGG AACCGAGAAAGAAAAACCCCAGAGACGGCAGAGAAAAAGGAA $A \subset C A G G G G G G G G G G G G A A A A G G A A G A A G A A A A G G A A A C G G A G$ G G GAG GAACCAAGGGGGAAAAGCAGGGGGGGACCGGAAAAGAG G G G GAGAAAAAGAAGGAAGGAGAAAAGGGGAACCAAACAAGG G G G GAA A G GAGGAAGGAAAAAAGGAAACAGAAA GAGAACAAG G GACAAGGAAGAAAAGACAGGAAAAAAAAGGGAAGGCCAA GA
 AAAGAAAAAAGGGGAGAAGAAAAAAGGAGGAGAGGGGAAAAA A GAAAAACCCAACCGGAAGGAAGGACAAAAAACAGGGAAAAA AAACGGGGAAAAAAGGAAGACACCGGACAAAAGGGAGGAAGG
 A G GAACAAAAGGAGGGGACCAAAAGGGACCCCGGAAGAAAAA $G G A A A C A G A A G A A G A G G G C C G G G A G G A A A C G G A G G G G G A A A A$
 GGAAAGCCCCGGACGGCCGGAGGGGGAAAGAGGACAAAAGAG AAGGGGAAGGAACCGGAAAGCACCCCGAGGAAGGCCCCAAAAA GAAAAGCAGAAAAAGGAAAAGGGGGGAAGGGGAAAAAAAGAA
 G G G G A GAGGGAAAAAAGGAGAGAAAGGAAGAAGGGAGAAGAG A A G G A A GAGAGAGGCCGGAAGGGGAGAAGAAAAGAGAAAA GA G G G G G GAGAGAGAA $A \operatorname{A} G A A G G A G A G A A G G G A A A A A G A G G G G G A$ G G G G G G G G G GAACCAAAAACAGGAAGGAAGACAGAACAAC G G $G G C C A G A G A A G G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G G$ CCGGAAAAAAAAGGGGGGAAAACCAAAAGGGGAAGGGGAAAA G G G G A A A A A A C C A A C CAAC CAAAAAAAGGAACAAGGAAGTTGG G GAGGGGGAAGGGAAAAAGACAGGAAAGTTAAGAAAGGGGGG G G G G G GAA $A \operatorname{GA} A A G C C A A G A G G G A C A G G G G G G G A A A C C A A A G$
 CAAAGACCCCCCCACAGACACCAGGAAGAAAAAAGAGGAGAA AAAGGGCCGGGGAACCGGGGAGAAGGAGGGAGGGGGACAGAA C C G A A A G G A A C C C CA GAAAGAAAAAAGCGAACCAGAAAAA G G AAGGGGGAAGGAGGCCGGCAAAGGGGAAAAAACCAGG
GCCGGCCGGAACGGGCGAAGGGGGCAACCAAAGAGAAAAAG GAAAAAACGGAAAAAAGGGGAGGACAGAGGGGAAAAAAGGGG
 $A G A G A G G A G A G G C C G G A A A G G A A A G G A A G G G A A A A G C A G A G A$ $A G A G A G G G G G G G A A A A A G G G A A G A A C G A A G C A G G G G C A G A C C$
$C \subset G G G A C C G G A G A T G G G A G G A A G A A A A G G A G G G G C C A G C C A A$ G GAGGAAGAAGGAAGGGGAAAAGGGGAAAAAAGGCCAACAAA A A A A A A G A G G A G A G A G G G G G A G G G A G G G G G A A G G A G G G A G G G G G G G G G A A A G G G G G A A G GAAAA A A G G G G GAGGAA G G GAA A A A A GAGAGGAGAAGAAGAAGAAAGACAGAGCCGGAAGGGGAAAA AAAGAGGGAAGAAAGAAAGGAGAGCAGAACCCAAAAAAAAGG A GAA A G G G A A C C G G G G G G G G A A C C C C G A G G G G G G G G G G C A A $G G A A G G A A A G G G G A G G C C A A A A A G A G A C G A A G G A A A A A G G A A$ G GAAAGAGAAAAAGGGAAGGAAAAGGGACCGGGGGAABAAAA $A G C C G A A A G G G G G G G G A A G G A A G A G A A A G G A A C A G A G G A G G A$ G GCCGGGGGGAAGAAAAACAAAAACCGAGGAAAGAAAGGGGG A G GAAA A A GAAAAAAAACGGAAGGAAGGAAAAGACCCCBGAA G G A A G G A C G A G A G A G G G G A A G G G G G G A A A A G G G G A A G G A A A A A A A G G G G G A A G G G G C A G G G G A A G GAC CA A G G GACA G GAC G G A G $C C G G G A G A G G G G G A C A A A A A C C G G A A A A G A A G C A G G A G G G G G$ $C \subset A G G A G G A A C A A A G G A A A A A G G A G G A G A A A G G G G G G G A A C A$ A A G G A A C G A G G G A G G G G A G A G G G G A A A G G G G G C A A G G G A A $\mathcal{A} A$ G G G G G G G G A A A A G G G G G G A A G G A A A A A A A A G G G GAA G G G G A A AAGGGGGGGGAAAACCGGGGAAATGGAAGGAGAAGGCCCCGG G G A A G G T T A A CAGAATAGCAAGGAAACCAAAAGAGGGAGAGG AAGGAGAAGGCCGGGGGGGAGGGGAGACAAAAGGCCAACCGG CAGGGAAGAAGGGGGGAAAACAAAAGAGGGAAAAACCAGGTT A A GAAAGGAAAGGGGGACAACCGGGGCAGGGGGGCAGAAACA GAAGGAGAAAGGAGGAGGGAAGAGCGCCAACGATAACCAAAG A G GA $\operatorname{A} G A G G G A G G G G G A A C C G G A A A A A C G A A A A A A A G G A A G G$ G GAAAGAAAAAAGGAGAGAAAAAAAGCCCCAAAAGAAAAAGG AACAACAAAGAGGGGGAGTTAAAGAGGAAAAGCCGACAAGGG AAAAGGGACCAAGGGAAAAAGGCCAAGAAGGGAAGGAGAAGG A A A A G G G G G G A A A A G G A A A C G A GAGGAGAAGGTTACAA G GA G GAGAGAGGGAGGAAGGAGAACCAGGGGGAAGGGGCCGGAACA G GCCGGAGGACCAAGGGGAAGGAAAGGGGAGGAACCTTAAGA $G G C C A A A A G G A A C C A G G A A G G A A G G A G G A A A A A A C A A G G G A G$ GACCAGGGGGGAGGAAGGGCGAGAAAGGAAGGAAAAGGAGAA $G G C C A A A G G A A A G A A G G G G G C A A A G G A A C C A A G G G B A A G G G G$ G G G G G G A A G G G A A G A A A G G A G A A $\mathcal{A} G G G G G A A G A G G G A A A A G B$ A G A G G G A G G G G G G A A A A G C C G A A GAAA A G G GAGGGACGGAAA G CAA $A \operatorname{GG} A A A A A A A A A A A G G G A G A A T A A A G G A G G A A G A G A G G A$ G G G GAACCAGAGAGGGAGAGAGGGGGAAAGGAGGGGACAAAA G G G G A C G G A G A A G G A G G G C C A G G A GAGAGGAGGGAA G GAAAA A G GAA A GAA $A \operatorname{GA} C G A G G A A A A A A A A G G G G A A G A A G A A A A G C C A$ $A C C A C C G G A A G G G A G G A A A A A A G G G G A A C C A A A A A A G G A G A A$ G G G G A A A A A A G G C C G G G GCCGGAAAAGGGGACAAAGCC G GAA
 G GAGGGAAGGAACCGGAAAAGGCCGGAACCGGGGGAAGGGGG G GAGAGGGAAGAAGGAGGAAGGAAAAAAGGGGAGGAGGGGGG A A G G G GC CAACCGGAAAAAAGAGGTTGGAAAAAGGGGGAAAT C C C C A A G A G G A CA GAGAAGGAAAAGGAAGGCCAACCCA GAGG A GAGAA $A \operatorname{GA} A G \operatorname{A} A A A G C \subset A G A G A G A A A A G G G A A G A A A A G A A A$ GAGGGAGGGGAGCAGAAAGGAGGAGGCCAGACGGAGAGAGAG A A G G G G G G A G G A T T A C A A A G G G A G A G G G G A G G G G G G G G A A A A GAGGGGGGGGGGAAAAAAAAGGAAAGGGCAACGGGGAACAAC A GAAA A A A A A C CAA A GAA G GAA A A A A A A C G G GCC G GA G GA G G $C \subset C \subset C \subset A A G G A A A A G G A A A A A C A G G G G G A A C C A A A A A G A A A A$ AAAAAAGGCCGGGGGGGAGGACAAACAGAGCCAAAGAAAGAA
 GACAAGGGGGCCGGGGGGGAGGAGAGAGCAAGAAGGGBAAGG C CAA $A \operatorname{GAAAAAGGAGAGAAGGCCGGAAGGAAAAGGAAAAGGAA}$ A A G G GAGGAAGAAAAAAAGGGAAAGGAAAGAAA GA GAGAGGA $A C G G A A G G A A A G A A G A T T G G G G A A A G G G G G G A G G A A G G A G G G$

A ACCAAGGGGGGCCGGAGGGGGAAGGAGCCAGAGCCAGAAAC C C A A A A G G G G G G G G A A A A G G A G A A A A G GAAAA A G GAAAA A A G A G A A A A A A A GA ACATTCCAGGAAAGGCCAGCCAAAAAAAAGG G G G GAA A GAGAGGGGGCCGGGGGGTTGGAAAAGGAACAAAGA A G G GAAAAGGGGAAGGAAGAGGAAGGGGAAAAGGAACCAAGG AACCAAACGGAGAACCAGAGGGAGAGCCAAAAGGGGGGGGGG G G G GCCGGGGGGAAAGGAAGAAAACAGGAGGAGABAGAGGGG GAAAAGCCGGAGGGACAGGGAACCGAAGAATTAAGACAGGAA G GAGAA G G A GAAGGAAAAGGGAGGAGACAGAGCAGAAAGGGG GAAAGAAAGGAGAAAAGGGCAGTTAAGGAGAAGGCAAGAAAA A A G G G GAAA A A A G GAGAAGGAAAAAAAAAGCCAAAAGGAGCA A G G GCCGGCCCCGAGAGAAGCCACGAAGAGAAAAGAAAGGGG A A C A A A G G A C G G G G A A G G G G A A A A $\mathcal{A} G A A G G G G G G C A G A A C A G$ A G G G G G A A G A A G G G G G C C G A C C G G G G G G G G G G A GACAAAAC $C$ A A A A G GAGAAGAAGCCAGGGGGGGGGGGAAAAAAGGCAABAC A A A G TA A A A G G GAGAGAAGGGAGGAAGGGGAAGGAACAAAAA A A A A A A A A G G A A A A G GAA $A \operatorname{AGGGCCCCCCCCAGAAAGGGAAAG}$ A A G G G G G G GA G A A C G G G G A A G A A A A GAAGGAAGGCCGGAGAA G G G G G G G G A A A A A A G GAGAAAAGGAGGACACAGACAAGACAA C C A A A G GA $\operatorname{A} A A \operatorname{A} G \mathrm{G} A \mathrm{G} G \mathrm{G} G A A A A A A A G G A A A A G G A C C C G G A A A A$ GAGGAGACAAGGAAGGGGACGGCAGGCACCGGAAGGAAGAAG
 G G G A G A G G G G A G T T A A G G G G G G A G A A A C A A A A A A A A G G G A G G A A A G A A G G G G A G G A G G A A G G G G A A A A A A G A A G GA G G G G A A G G G G T T A C A A A C A A A A A G G G G G A A GAGGTAGGAAAAAAAA GA G G AACAGGGGAACACAGAGGGGGGAAGAAAAAGGGAAAAAAAAA AA GAACAAAAAAAACCAAGGGAAAAAACAAGGGGAAGGAAAA C C G A C CAAC $A \operatorname{CAA} G G G G A A A A A A A A G G G G G G G G G G G G A G A A A C$ GAGACCAAAGAAGAGGAGCCGGCCAGGGGGGAGACAGAAAAG GGGGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGAACCAAGAG A A A C G A G A G G A A G G G G A A A A A A GAAAAA A G G G G GAAAAAAAA G G G GAA A GAAGGAAGGGGCCAAAAAAGGAAGGAACCCCAAGA G GAA A GAGGAGGAGGGGGCAGAGGAAAAAGCAGGGGGAGGAA
 G GAGACAGGGAACCGGAAAAGGCCCCGAACAAAAGGAGAGAG GAGGAAGGAAAGGGAGGAAACCBAGACAAAACAGCAAGAAAC GAGAGGGAGAGGAGCAGGATAGAGGGGGAAAGGGAGGCAGAA GAGGAGACAGGAAGAGGAGGGGAAGGAACCAAGGCCGGAGGG A G A G A A A A G GCCAC G G G G A G GAGGAAGGAAGAAGCCGGAGAA
 AAACGGAAGGCCGGATAAAAGAGGAGAAAGGGAAAACCACAA A A G A A A G G A A G G C C A G A A A A G G G G G G G G G G G G G G A G C C G G G A A G GAAGAACAAGCCAAGGAAAAGGCCAAAAGAAAGGGGCAAA AACCGGAAGGAGAAAACACCGAGGAAGGAAGGGGAAAAAAAA A A A A G G G A A A A A A A A A A A G GAGAGCCAGCAGGGGAAAAACAA G G G G A G G G G G A A G A A G A A C C A A C G G G G G A G GAAA A A A G A G G G CAAGAAGAGGAAGGGGAAGGGGGGAAAAGAGAAGAAAGAACC A A G GAAAAGGAAAGAAAGAAGGCCAAACCCAACCAAGGGGGG $C \subset G A A A G G A G A A A G A A A A G A A G C C G G A A A A G G A A G G G A A A C A$ C CAAAAGGCCAGCAGAAGAAGACCAAAAGGCAAAGGGGGGAG A A A GAAATGGAGAAAAAACCGGGAGGAAACGGGGGGACAAAA C C A A A A A G G G A A A A A A G GAGGGGACCGGAGGCAAAAGAAAGAG G G A A A G G G G G G G G A A A A A A A GACC GAAGAAACAACCCCGGAC $A G T A C A G G A A G G G G G A A G G A G G A A G A G G G G A A A A A G A$
AAAAAGGAAGAAAGGGAGGAGAACGGGAAGGGGAGAAAGAG A G GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} C \mathrm{C} C A A A A A C A A A A G G G G G G G G A G G G G A T A A A A A A$ C C G G G G G G A A A CA $A \operatorname{GGGGGCCGGGGGGGACGAGAAGAAACAAG}$ G A A A A G A C G A A G G G G G G A G GAAA A GAAA A A C C G G C C A A G G G G $A A C C G G A G A A A G G A A A G A A G G A C C G G A A G G G A G G A A G G A A G A$

A A G G A A A G A A G G GA A A G GAAAGGGAGAAAAAAAAGGGGAGAA CA $A G G G G G G A C C G G C A A G T A A A G G A A A G A G A G G G C C G G A A G G$ GAGGGAGAGAACACGAAAAAAGGGCAAAAATAGAACACAGAA GAAAAGGGGGGGAACCAAAAAAAAAAAAAAAGAAGGCCAGAC AAAGGGGGGAGAAGAACAAAAAAACAAGGAGGAGAAAAAAAA G G A C G G A A A G G A A A G G G G G G G G G G A A G G G A C C A A G G A A G A G G G G G A A A A G A G A A G GCAAAACGGAAGGCCGAACAAAGAAAA GA $A G C C G A A G G A G A G G G A A A G G G G G A A G C C G G T A A A A G G A A A A G$ G G A C A A A G A A A A G A G G A CAACCAGGGAAGGCAGAAAAGAGGA G G G G G G A A A A A A A G G GAGAA $A \operatorname{AGGGGAAAAAGGGGGGAAGAAG}$ GACACCAATTAACCCCATACAGGGAGACGAGACAGGAAGGAA C CAAACAAGAGGAAGAGGAGGGCACCAGCCAGATCCGGAAGA G GCCCAGAAACCGGGGAGGAGGAGCCGAAAGGGGCCGGAAAG $G G G G A A G G A A G G A A G G G G A G C C G G A A A G A A A G A C A A A A B A A G$ A GACACAAGGGAAAGGGGAACCGAGGCAAAGGGGAGAAAAAG

 G G A A G G A G G GAGCAGGCCGGAGGACCACAGGGGGAAGAGACC A G G GACAGGAGGAGGGCCAACCGGGGAAGGGACCGACAAAAG G G G G C C A A G G A A G G G G C A A T G G G G G A A G C A C C G A A A G G G G T A GAGGGACCAACAGAAGCCGGAGGGAAGAAAGAAAAAGGAACC GACCAAAAAAAAGGAAAAAAAAAGAAGAAGGGAATTGGGGAG A A G G G G A A G G A A G A A A A $\mathcal{A} A G G G G A G G G G G A G A A A A G G G A A G A$ C C A G A A A A A A A G G G GACCGGAAGAAAGACAGACCAA GAAA G G G G G GAAACAAAAGGGGGAGAGAAGCAGAAAAAATGGCCAGA G C C A A A G GAGGGAAGAATTGAGGCAGAAGAACAAGGAAAGAAA AAAGAACCAAAAAGAAAGACAAGGGGAAAAAAAAGGGGGGAAA AAGGAAAAAAAAGGAAAGACAAGACAAAAGGGCAAAAAAGEG G G G A G A A A A A G G G G G G G G A A A A A A A A A A A A C C G GAAA G G G A G AA $A G G G G G G G A A A A A A A A G G G G A A G G A A A A G G A A G G A A A A A A$ AACCAAGGGGGGAAAAGGAAAAAAAAAAAAGAGGGGCCGGAAA A G G GAA A A A GAGAAGGGGAAGGAAAAAGAACCCCAAGGACCC CAA $A$ A A A A G GA A G GCC GAGGCCGGCCGGGGTTGGAGAAGGCC G GAGAGAGAAGGCAAGGGGGGGCCAACCGGCCGGGGGGAGAA G G G G A A A A A A G GAA A G A A G G G G A A G G G G A A A A A A G G G G A G A A C CAA $\operatorname{C}$ G A A GAGGAAAGCCCAGGAAGGAAGGAAAAAAAGAGA G GAA A G GAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACC G G G G G G GAGGAAAACCGGCAAGAAAGAGGGGGAACAAAAAAA GAAGGAGAGGAAGAGGAACCGGCCAGGGGGGGAAAGAGACAA A G GAAACCAGAGAAAAAGAAGAAGAAGGAAAGGAAACAAGBG $G G A A A A A G A A C C G G A G G G C A G G G G G G C C A G A A C C A A G G A A G A$ GAAAACCCGGAAGGAGACCCGGCACCCAACAAGGAGGGAGAA G G A A A C A A A A G A G G A A A G G G G G C C A GAC G G G G G GCC G G G A G G $A G G G G G A G G G G G A A A A C C A A G G G A C G C C G A G G G G G G A A A A G G$

 A A G A G A G G G G G G A A A A C CA A G G T A GAGAG GAA G GA A G G G G A A GAAAGGACGAGGAGAAGGAGGGGGGGAGGAGACCGGAAAGAG A G GAA ACCACGGGGAAAGCAAAAGGGGAGAAGGAAGAGAGAG G GAA A GAA $A \operatorname{GA} A A A A A A G G C C C C G A C C A C G G G G G G G G G G A A A G$ G G GA G A A G A GACGGCGGAGGCCCCAGAAAACAACAACAAGAA A A A G CA A G G G G GAA A A $A \operatorname{G} G A A G A A A G G A A A G G G A A A G A G G G G G$ $G G A A C C G G G A A A A A A A G G G G A A A A G G G A G A G G A A A A G G G G G G$ AAGGGGGGCCAAGGCCAGGGAAAACAAAGGAAGGGGGAGGAG G G GAA A G G GAA $A$ A $A \subset C A A A A G G A A G G A A A A A A A A G G A A G G G A$ GAAGGGAGGGGGGAGGAAGGCAAACCGGGAGGAAGGAGAAGA
 G G A A A A A A G G A A G A A A A A A A A A C C A A C CAA G G G G G G G G G G C C $C \subset A A C C A A A A C C G G C C G G T T A A G G G G G G G G G G G G G G A A G G A A$

G GAA A G G G A A G G G G G G G G A A G G C C G G G GAAAA $A \operatorname{A} G G G G G G A A$ $A G G G G A G A A A G G A A G G G G G G A C A C C C G A G G A A G G A A G A G A A G$ AA $A G A A G G G G A A A A A A A A A A A G G G G G A A G A A G C A A C G G G G A A$ G G G G G GCCAAGGGGGGGGGGAAAAGGAAAAAAAAAATXAACC G G G G G GAAAGCCAGAAGAGGTTGAAAGAAGGAAAGAGGACGG GACCGGGGAGGGGGAAAACCAAGGGGAGAACCGGCAAAGAGA G G A A G A A G A G G ACCAAAAAGCCAAAAGAGACAAACAGAAGGA GGGACCAAAAGGGGGGAAAACCAACAAAACGAGAGGAAAAGA
 $C G G A A G A G A A G G G G A G A A G A G G A A A A A C A A G G G G G A A A G G A A$ G GAAAAAACCAAAAAAGGAAAAAAAAAAGGAAGGGAAGAGAG
 $G G C C A A C C G G G G C C A A G G G A A A G G A A A G A A G A A A A A G G A A G A$ G G G G G G A A G G G G A A A A A G G A A G A A G G A A G A GAA A A C A G G G G G A G GAGGGGGAACAGCCGGGAGGAGAGAAAAGGGGAAAAAAAA A GAGAAGAAAGGAAAAAAGGAAAGTAAAGGGGAAAGCCACAAA G GAACAGGAGCAAGACAGAAGAGAAAAAGGCAGGAGGAAAAG G G G A A A G GCCAGAGAAGGGGAAGGCCGGGAAGAGAGAAGGGG A G G A A A A GCGGGAAAAAAGGGGAGGAAAAAGAGGGGTACCGG G G A G A G G A G G G G G G G A A A G G A A A G G G G GAA A C A G A C G G G A A G CAGAGGAAGGAAAGGGGAGAAGGAAACCGGCCCAGGAGAGGG T T G G G GAAAAAAGGAAGGGGGGCCAAGGGGAAGAAACCAAGA C CAGAGGGAAGAGAAAGGAACCCAGAAGAAAAGGGGACBGCC GAAAGGAAAAAACAAGGAAAGGAAGAAGAGAGAAAACCAGAA GACCACGGAAAGTAAACCAACCGAGGGGGGGAAGCCAAAAGA G GAA A G GAGGCCTAAGAGGGGGGGGGGAGGAAAAGGAAAAGG A A G GAA $A \operatorname{GA} A A A G G G G G G C \subset A A G G G G C A A G G A A C A G C A G G G G$ GACAAGAGAAGACGAACCGGGAAGACGAAACCAAAGGGGGAG G G G GAGAAAACCCGCACAAGAGAGGAAAAAGAAAGAAGAAAG G GAGAACCAAAAAAGGACATAGAACACCAAGAAGATAATTGA GAAAAAAAAAAAGAGGGAAGAGGAGAGGAGCAGGAGAAGAAA CAAAGGGGAAGACCGGGCAAGAGAGGGGAAGGGGAGAAAAGG A A A A G G G G G G A A G G A T G A A G G G A C G GCCGGCCCCCCGACAA G A G A A G A G G G G G G A A G G G G A A T T C C A C CAAAA ACCCCAA G GA A G GACAGCCGGGGGAAGAACCAGCAAAGGCCGGAAGAGGAACC G G T A A A G G G G A A G G G A A A G G A A G G A A A A C A G G G G C A G G A A $G A$
 A A G GAA A A G G G G G G GAGGAAGGGGTTGGACAGGGGGGGAAAA C C A A C CAA A A A A A A A G G GAAAAA A A GAGGGAAAAAAGG G GAA A T TAA A G G G A G G A A G A A G G C G A G A A G G G A A G GA G G A A A A G G A A A GAAAGAGGAAGGGAGACAGGGGAGCAGAAGGGGAAAAAGGG A G A A T A A A GAA GAAAACCAAGGAAGGAAGGAAAAGGAAAA GA G G T TGGAAAAGGCCCCAGCCAAAAGGGGGGGGAGGGGAAGGG G GAGGGGGGGGAGAAGGGAAGGGAAAGGGGAGGGAAAAAAAA G GAGGAGGGGAAGGAGAGGACAAAAAAAGGCCAAGGCCAGAG G G G A G G A A A A G GAA A GAACCGAGGGGAACCAAAAAAAAAAAA A G A A T TAAATAAAAAAAAGGGAAAAGAAGGCAAAGAATXAA A A A A G A G G G G G G G G G G C C G G G G G G A A A A G GAA $A \operatorname{AGGGGGGA} A$ AAAACCAAGGGGGAGACCCAAGGGGGGGAAAAAAAGGGGGAC GACCAAAAAAGGCCAAGGCAACGGGGAAAAGGAACCAAAABA A A A A G G G CAA $A \operatorname{AG} \operatorname{A} A A A G G G G A G A A G G G G A G A G G A G G A A G A C A$ CAGGAGGGAAAAAAGGAGAGAACCAGCACAAGCAGACCAGAA G G G G C C A A A G G G G G G G A A A A G GAA A G G G CAAAAAAAAGAAA A A GAGGGGCCGGGGAAAGGGCCCCACCAAAGAAAAAGGG
GCAGAAGGGACCAAGAGCCGGAAGGAACCAACCCCCAGCAG AAGGAAGAGAAGAAGACCAGGGGGCAAACCAAAAAAGAAAGG A G G A A T A A A A G G G A A G GAAA A GAA A G G G G G A A A A GACAAAAA
 CAAGGGAAAAGGAAGAGAATGGAGACAGAAGGCCGGCCACAG

AACCACAAAAAAAACCAAAAGGAAGGGGGAGGCAAGAACAAA G G A A A A G A A G A A A G G G A A A G G G G A G G A A C C A A A G T T G G G G G G A A A A A GAA A A G G G G GCGAGGCCAGGGAAAAAAGAGAAAAGAA A A G GAA A GCCAAAGAGGGGAAAAGCCGGAAAAGGAACCCCGG G G G GAA A ACCAGGGGGGGAAAAAAAAAACCAAGGGGGGCCGG
 CAAAAAGACCCCGGGGAGGGGGAAGGGAGGGAAAGAAGAGGG CAAGGGAAAAAAACAAGAGGGGAAGGGGAAGGGGAAGGAAGA $A C G G A G G G C C T T G G G A C A C A G A A G G C G A G G G G A A G G G G A A G A$ G G G G GAACGGAAAAGGTTGGAGGGGGAAAACCCGAAAAGGAG A GAGAGGGAAAAGGAGGGCAAAGGAGGGGAGGGAGGAGAAAG A GAGAACACCAAGGGGGAGGAAGGGGGGGAAAAAGGAACCAA $G G A C T T G G G G G G G G G G A A G G A G G A G G G G A A G G A A A G A A C A A A$ GGACAAAAGGGGAAAACGAAAGGGGGAAGGGGAAAGAAGAGG AAGGAAAAGGGGGGAAGGCCGGCAGGAGGCGGGGAAGGAGGG A G GAA ACCAGGGGACCAAAAAAAAGAGACAAGGAAGGBAAAA T TAA $A \operatorname{G} G \mathrm{G} A A A C A A A G G G G G G G G G A A A A G G A G G G A A G C A A A A$ A GAAAAGGAGCCAAGGAAAAGACCAACCAAGAGGAAAGAAAT $G G A A A A A G G C A A C C A G A G G G A A A A G G A A G G G G G A A A C A A A G A$ GAGGGAAGGGAAGGAAGGAAGGAGGGGGAAGGAACAAGACAA G GAA $A \operatorname{GAA} A G G A A A A G A G G G A A G G G A A A A A A G A G A A G G A A A A$ G G G GAAAACCGGAAAATTGGAGAAAAGGGGGGAGAAGGAGGG A A G G A GAGGGAGGGACAAAGGGAGAGGAAGCAAAAGCCCGAG A ACAGAGAGGGGGGGGGGCCGGAAGGAGAAACCCCCAAGGAA G GAACCCAAAAGAGAGCCAAAAGACCCCAAGGGGGAAAGGAG G G G GAA A G G GAAGGGGCCGGAGAAGGGAGGAAGGAGGAGATT AAAAGGAAAGAAGAGAAAGGAAAGAGAAAGAGGAATCAGAAG G GAGAAAAGAAACCCAAGAAAGAAAAAACCCCAAACAGAAGA A G A A G GAAAAGGAGAGCAGGCCAGCCGAGAAAAAAAAGAGGG G G G G G GCCAAGGAACCGGGAGGAAAAAAACAAAAAAGGGGGG GAAAACGAGGCCGGGGGGGGAAGGGGAAGGGGGGTTAAAAAA AA A A G G GAGAAAAAGAGGAACCAGGGAGTTGGGGGAAACACC CAAGCAGAAAAGAACCGAGAAGAGGAGGAAGGGAAGCAAAAA A G G G G GAA A GCCAAAGAAGGGGAAGGAGAAAAGGGGAAAAAA $G G A A G G A A A G A A A G A G A A G A C A G A T A A A A A A A A G A A G G G G G C$ A G G G G GAACCAAAAAAAAGAGGGGATAAAAAGGGAGGACAAA A GCCGGGGGAAGAGAGGAGGGGAAAAGGCCAGAAAACCAGAG A ATTGAAAAAGAGAGGAAGGGAGAAAGGAAGGGAGAAAAACC
 G G A A A A G A A A C CAA $A \operatorname{GGGAGGAGAGGAGGCCCCAGAAAGACGG}$ TAAAAAAAAGGAGGAGAACCGGGGAGAGCCAGAGCAAAAGAG
 G G G G G G G G A A G A G G A A G G G G G A T TAAAAAGGGGA GAGGGGGGG A A A A A A A A G G A A CAGGGGAAGAAGAAGGAGGGAA GAAA GAAA A A A G G G G G A A G G A A A A GAACAGAC GAGAAGGGAGGAAATTAA C C G G A A G A C C A G G G G G G G A A G GAGAA G G C C A A A G A A G G G A G G CAGAAAGATTGGAAGGGAAGACGGAAAGAAAGAGGAACAGAA G GAA A G G GACGGGAAGGGAGGGCCAAAAGGGAGAAGGGAAGG G GAAGGGGCCGGAAGGAAAAAGGGGGAAGGGACAAAGAAAAA C C G GAGGAAAAGGAGAAGCAAGGAAAAAGGGAAAAAAAAA GA G GAGAAAAAAACGAAAGGAAGAAGAAAGGGGGAAAAAAGGAG GGAGAACCAGAAGGGAGAAGACAGGGAACCAGAGGGGGACGA A G G G A G G A A G G G G G A G A A G G A A G G G G A A A GAA $A$ G G A C G C C C C $C \subset A A A G G G A G A A A A A A G G G G A A A G G A G G A A A A A A G G G G G G A G$ G G A G A A A G A G A GCCAAAAAAGGGGGGGGCCAGGGGGAAGGCC G G C C A A A A G G G GCC G A T TAAAAACTAGGGAAGGGAGGGACAA A A A G A A G G G GCCGGGGAAAGAGGGGAGGAAGGAAAAAAAGAC A CAG G GACAGGAAGGGAAGAAAGGCCGGAAAAAAAAGGGGGG G G G GCCGGAACCAAGGGGGGCCAACCAAGGAAGGAAAGAGAA

G GAGGGACAGAAGGGAGGGGAAAAAGGGACAAAAGGGGGGGG G GACAGAAGGAAGAAAAGTTAGAGGACCGAGGAGAGGGAACC G G G G G GCCACAAACAACAAAGGGGAACAGGAGAGGGGGAAAC TACAAACCACAGAGAACGGAAAAGACGGAAGAAGGGGGAACA
 G GCCAGACAAGGACGAGAGGAAAAAAAGGAAACCAGCCAA GA $C \subset G G G G G G G G C C A A C C G A C C A G G G G A G G A A A G G A G G G G G G A G$ AACCAACAGAAGAAAAGGGGAAAAGGAAGGAAAAGGAGCCGG CACCGAAGGGAGGGGGGAGGAAAGAGAGGAACAACCGGAAGAA G GAAAAAAAAGGAAACGGTTGAAAGAGGAGGGGAAAGAAAAA G GAAAGGGGGAGGACCAAGGAAGGAAAAGGAAAAAGAGACAG GACCAAAAAAGGAGAGAGAAAGGAGGAGGAAAAGAGAAAAAA $A G A C A A G G C C G G G A G A G G A A G G A C C C G G A G G G G G A G A A G A G G$ A GAA A G G A A C G A GAGGGAGGAAGGCCGGAGGGAAGACC G GA A CAGGGGCCCCAAAGGAGAGAGAGGGGAGGGAAAAGGAAAGGG AAAAGGGAAAGGAAGGGAGAGGAGGGAAAAAAGGCAAACAAG GAAACAGGAGGGAAAGAAGGAAGGGAAAGGAAGGGGCAAA GA A ACACAAGAAGAGAGGGAAAGAGAGGGGGGAAGAAAAAACAG TATTCCGGAACCGGGGAAAAGGAAGGAAATGGGGGGAGAGAG A A A G G G A G A A A G G G A G G GACGGAAAAAAGGCCAAGGGGAGGA $A G G A G G G G G G G G G G G A G G C G G G A A A A G G C C G G A A G A G G G A A G$ GAAAGGAAGAAACCGGAAAAGGAAGGGGGGAAAAAAAAGAAG $A G C C G G G G A A G A G A A G G G A G A A A G A G A G G G A C G A A A G G A G A A$ G G G G A A G G A G A GAA A G A A A G GAAGGAAGGAAGAAA GAAA A A A A A A A GAAGGAGGGAACCACGGGGAAAAGGAAGGCCACGGAGAA A G GAGAAGAAGGCCAAAAAAGGGGAAAGGAAAGACAAAGGGG AAACGAAGAAGGGAAGAAGGGGGGGACCGGAAGGGGAGACAG A A G G G A A G G GCCACAGGAGAGGAGAAGAGAGGAACCAAGGAC $A C G G C A A C G A A A A A G G A A G G G G G A G A A G G A A G A G G A G G A G A A$

 ACAGTTGAAAGACACCGGAAGGAAAAGGAAAGGGCCATGGGG G G G G G A A G A G A G G G A A A A A A GAAGCCAGGAGAGATTAAAA $A$ A A G GCAAGGAGGGGAAAAAAGGCAAAGGGGGAGAAGAAACCCCC AAGGCCGAAAGAAGAAGGGGAAGACAAAGGGGCCAAAAAAAA A G A G G GCCCAGACAGAGAAAGGAACCCCGGCGAGGGAAAA GA G G G GAAAGAGGAACAAGACAAAAGAAGGCCAAAGAAGGAAAA $C C G A G G G G G G G G A A G G G G A A A A G G A A G A C A G G A A G G A A A A A A$ A A G G A A A A A G G A A C A A A A A GAA A GAAGAGAGGAAGAAGACAA
 A A G G G G G GCCAGGAGAAAGAAAGGAAAAGGAAAACCGGGGGG G G T T A A G G G G C C A A A A G A A A A C G G A G G A A A $\mathcal{A} G G G G G G G G G G G$ $A G C \subset A G G G A A C A G A A A A A A G G A G G A G G A A A G G G G A A G G G G C A$ G GAGAAAAGGGGGGGACGGAAGGACGACAAAAAAAGACCAC
 A A GA $\operatorname{G} G A A A A A G G A G C C C A A G G A A A G C G G G G G G G G G G G A C C B G$ A G G GCCCCGGAAGGGGAAAAACGGAAAAAAAAGAGGGAAACC G GAGAGAGGAAGGAGGGGAGGAAAGGGGGGAAAAAACAAAAA A GAGAGAAAAAAAAGGGAGGAGGGAGAGGGGGAAGGAAAGAA
 A GAGGAGAGACCGGGGGAGGAAAAAACCAAAAGGGGGGATGG GGAACCGAAAAACCAGGGCGCAGAAGAAGGAAGGAGAAGGGA $A G A A G G A G A C G A G G G G A A A A T T G G G A G G G A G A G G A A A A G A A A$ A A A A G G G G A A A A G GAGCCACGACAAAGGAAAAAAC GC
CAAAGGGAAGAAACCGGGGGGGGGGAAAAAGGAGAAAAAAA G GAGAACCGGAAAGAGGGAGGGGAGGAAGGAAAAAAAAGGGG G GAA A G G GAAGGAAAATTAAAAAAGGAAGGAAGGAAAAAAAA C A A A A A G G G G G A A A T T C C C CA G G G A A G G C CAA G G G A A G G G A A AGGGGAAACCGGCCAAGGAACCAAAAAAGGAAGGAGAAAAGA

AACCAAGAAAGGGAGGGAGGAGGAAGGGAGGGAAAAGGGGGG A A A A G G G G GCCAACGACAGGAAGGGGAAGGAAAGGAAGAAAG GA $A$ A $A G G G G G G G G G C C A A G A G G C C A G G A A G G G A G A G A G A A A A$ AACCAAGGGGAAGGCCAAGAAAGGACGGAAGAGGAAGGAAAC A G TAAAGGAAAAGAAAAAGGGGAAGGAAAACCGGAAAAAACC AACCCAACATGGAGAAAGAAGGAACCAAGGAAGGGAGGAGAA G G A A A A G G A A C CAA $A \operatorname{GGG} C \subset G G T T G G A A G G G G C C A A A A G G A A$ G G G G A A A A G G G A A G A A G G G G G G G G G G C C G G G G A A G G G G CAA $A$ A A G GAA A G G G A A A A A A A A A A A A G GAAGAAGGACAG GAAAAAA AAACGGGAAAAAGACCCCAGGAAGAAAGAAAAAAGGGGAAAA

 G G G G G G G G C A A G G G G G A A A A A A A GCCGGAACGAGATGGAGAA
 G G G GAGAGAGCAACGGAAAAGGGAAGGGAAAAAAAGAAGAGA GAAAAAGGGACCAAAAAAGAAAAAGGGGGGAGGGAGAGAGGG C C G GCGGGGGAAGGGAAACATAAAGGAGAGGGGAACAGAGAA G GCA G A A CAA GAAAGGAAACGACAGGAAAAGGTTAAAAGGAA AAAGAAGAAAAAGACCAAAAGAGGGGAAGGGACCGAAAAAAA
 C CAA A GAA $A \operatorname{AGGGGGAAGGCCCCAAGGAGGAGCCATAGGAAAA}$ GACCAAGGGAAAGGAAGGATACAGGGAACCAATAAGGGGGGG
 G G A A A C A G A G A G G G G G A G A A G G C C A C G G G A A A G G G G A G A G C C AAGGAGGAAAAAGACCACGGGGAAGGAAGAGAGGGAGAGGAA AAA A GAAA $A \operatorname{A} G \mathrm{G} A A A G G A A G G A A C C A G C A G G A A A A G G A G A G A G$
 A A G G G G G G A A G GCCAAAGAGCCCAAAAAAAGGAGGGAAGGAA G G GAGGCCAAAGGGAAGAAAACCCGAGGAGAAGGGGACCCAG $G G C A G A A G G A A A A G A G A A G A A A G G A G C A A A A A A C A G G G G G C C$ $A C G A A C G G C C A A G G A A A A G G A A G G A A A A A A A A A G G B A A A G A G$ A GCCAAGAAGCAGGGGGACCACGGAGAAACGGGGGGAGAAAA C C GACCGGGGAAGGCAGGGGAAAGAGAAAGGAAGTTCAAAGG
 G G G G A A G A G G G G G G G G A A G G C C A G C C G G G G G G G G A A G G A A G G G G A G A G A G A A G G G G G G G A G A A A A A A A A A A A G G G A A G A G G G G A GAAAGAAAGAGGAGAGGGAAGGGAGAGCAGGGGAAGGGGGGG AAAAGCGGAGGGAAGGGAGGAGACAAGAGGGGAAGAAAAGAG AACCAACCGAAAACCGGGAAGGAAGGAGAACCAACCAAGGAG A A G G G GAAAAGAAGGACCAAAGGGGGAGCCGACGBAACAACC CAAAGAAAAAGAAAGGGGGGCCAAGGAAGGGGGGCCAAAGAG A G G A G G A G G G G A A G G A A A A G G G G A A A GAA $A$ A A A G G A A G G G G A A AC GAGGAGAAAGAGAGAAGGAAAGGGGGAGAGAAAAAAAAAG GAACGGAAGGGGAGGGAAAGACAGGGCAAAAAAAGGAAGAAA
 A GAGAGAAATGGACCCCGCAAAAAAGGGAAAAGGAGGGAGAG A A G G G A C C G G G GAGAAAGAAGGAAAAGGGGAAAAAAAGAAAA A A G G G G A G G G G A A GAAAAAAAAAGGGCCAAAAGGGGAAAAGG AA $A G G A G G C C A A G G G A G A A G G A A A G G G A A G G G A G G A A G A G A A$ GAGGCAACAAAGGGAGAGAAAAGGAGACACAAGAGAAAATAG A GAACCAAGGGGGAGGCAGAAGGAGGAAAGAACCAGGAAAGG G GGCAGAGAGGAGAGAAGAACCAAGGAGGGGAAGATAGATGA G G A G G G A A $\mathcal{A} G G G A A G G A G G G G G G G G G A A A A A A G A A A A A G G G A$ GCAGGGGAAAGGGGGAGGAGAGGGGGAAAAGGGAAAAAAGGG GAAAAAGGAAGGAGGAGGGGGGAAAAAACCAAAGATGAACAA $A C G G G A G G G G A A A A G A A A C C A G G G A A A A G A G G A G A G A G A A A G$ A GACAACCCCAAAAGGGGGGCCCCCCGGAGCGCACAAACCAA G G A G G A A C G G G G G G G G G G G GAAACC G GAACCGGGGAAGGACA C AAAATAAGGACCAGAGAAGAAAAGAGAGAAAAACAGAGAAAA

G G G GAA $A$ GAGGAACAGCCTTGGACGAAAGGGGAAAGAGAAAG $G G C C G A G G G G G G A A A A G G A A A A G G A G A A A G A A G A A A C A G G G G$ AAGGAAAAAGGGCCCCAAACAAAAAAGAAGAGGAACGGAGGG G G G GAGAGACCAAGGGGGGGAGAAGAAGAAGAGAAAGAGAAA A GAGAAGGCCAAGGGGAAGGGAAAGGCCCCAAAGACAGBACA G GCCGGGACAAAGGAAAGCCGAGGAAGGAAAGAGGAGGCAAA A A G GAGCCAACCACCCAAAAAAAAAACCGGGAAACCAAGGCC G G G G A A G G T T A G G G G G G G G GAA $A \operatorname{G} G A A A G G A A G G A A A C C A A G G$ GAAAACACCCGAAGGGGGGGGGCCAAAACCAAGGAAAAGGGG G GAAAAGGGGATGGGGGGAAAAAAGAAAACAAAACCGGAAGA GAGGGGGGGGAGAAGGAAAACCAAGGCAGACCAAGAAAGGGG AACCCCAGCAAAAAAAAAACAAAAGAAAGCGGAAGAAGAGGA A GAGAACACCAGAGAGAGAGAGACTAAGAGAGAAAGAGACBA

 G GAAGGGGGAGACCAAAAAAAAGAGGGACCAAGAGAAAAAAA A A G GAA A ACAGGGGGAAGCCAAAAGGGAGATAACGGAAAAGG A A T TA A A A G GCCGGGGTAAAGGCAGGAAGGGGAAAAAAAAAA AGAAAACCGGGGCCAAAAGGAAACGAAAGGAAGGAAAGGGGA A A G G A A A A G G A GAA A A G G G GA GA A A A A A A A G G T T G G G GA G A A G G G G G GAGGAAAGGAAGGAAGGAAAAGGGAACAAGGAAGGGC ACAACCAGGGAAAAAAAGCCGAAAGGATCCGACCACAAAGCG A GACCCAGGAGGAACCGGCAAAGGGAGGAAGGGAGGAAGAAA G GACAGAGAGGGGGGGGGGGGGAAAGCACCAACAGGAAAAAA G G G GAACAACGAAAGGGGGGAAGAGACCAAGGACTTGGAAAA $A C G G G A A G A G G G G G A A G G A A C G A A G G A A A A G G C C A G A G G G G A$ GAGAAGGAGGGAGGGGCCAGAGGGAGGGGAGAACACAAGGAA C CAGCAAGAAAGGAGGAAAAAACACAAAGGGGGAAGAACCGG A A G G A GAA A GCCA G GAAGAAGAAGCCAAGAGGCCCAGGGGGG AAAGCAAAGGAAGGGGGGACAGAAAAAGCAAAAACCAAAAGA
 GAACGAAGGGAAAAAAAAGGAAGGGAGAGGGGGGAAAAAAAG G G G GCCAAAACCAAAAGGAAAAGGAAGGGGAAGGGGGGGGGA A GAGACAAAGAGCCGAACCCAAAAGGCCGGCCAAAAAAGGGG A A G GA $A \subset C G G G G A A C C G G A A A C G G A G A G A G A C G A T T G G A A C C$ A G G G A GAAACGGGAAGGGGAGGCAAGCCACCCCAAGAGACCC ACAGCCAAAAAGCCGGAAAGGGGGAAAACAGGAGAAAGAGAA A A GAGGAGAAGGAAGGGGAACCGAAAGGGAGGAAAAGGGGGG
 G GCA GCAGAGCCAACCAAGGGGTAAAGAAGAGGAGAAAGGGG AAGGAAGGACAGACCAGGGGAAGGGGAGCAAAGGGGAAAAAA A GCAACAAAAAAGGAATAGGGGGGGGAGGAAGGGGAAACABC GAAAGAGAGGAAAAGAGAAGGAAAGGGGAATTGGGGGACAAA G GAACCAAAAAACCGGAAGGAAGGAAAAGGAAAAAAAAAAAA
 G G G G A A G GCC G GAAAAAGGAAGGGGAAAAGGAAAAG GAA GAAA G G G G G G G G A G A CAAAA T T G A A A GAGGAC G G GAA G GAC CA G G A C C A A A A G G T T A A A A G GAA G GAAAAAAGGAAGACCA G G GA G GA GAGGGGAAAAAAAAGAAAGGAGAAGGGGGAGGGGGGAAAACA G G G G C C A A A A A G G A A A G G G G G G A A A GTTA G C G A GAA G G G G A A A G GACCACGGCCGGAAGGAAGGAAGGGGAGAGCCAGGGAAAG G GAAA AACAAGGCCAAGAAAGGAAGGAACCAGGAGAGGAAAA A A G G G A G G A A A A A A G G G A A A A G G G G G A G G A A A G G G G G G A A A A G GAAGGGGGGGGGGAACCGGAGAGGGGAAGCCGGAAA
GAAGGAAGGAAGGAAGGGGAGGGGGGGAGAAAAGGGAAAGG C C G GAA A G G GAA $A \operatorname{A} \operatorname{A} A A G G A A A A G G G G A A C C G G A A G G A A A A G G$ A A A A A A A A T T A A $\mathcal{A} G G G A A G G G G G G G G G G G G C C A A A A A A G G A A$ $G G C C G G G G C C G G G G A A A A T T G G G G A A A A G G A A A A A A A A A A G B$ AAGGAAGGAAAAGGCCAAGGCCAAAAGGAAGGGGGGAAAAGG

A A G G A A G GCCAAGGGGAAGGGGGGGGGGAAGGAAGGGGCAAA
 G G G G G GCC GAAACC GAGAAACCAAGAAAAAACGGGAAGAAAA G GCAAATTGGGGAGGAAGCCGGAAGGGAACAAGGGGAAAAAG $C \subset A A C G A A G G A G G A G A A A A G G A G G G A C C G G A A A G G A C C G G A A$ A G GA GAGGCACCAACCAGAAGAGAGAAGGAAAAAAAGGGGAA AAAGAAAGCCGGGACCGAGGAAGGGGAAAAAAAGAAAAAAGG AA $A G G A A G G A A A A G G G G A G G G G G G A G G A A A G G A A G G A A A A A G$ $A G T T G G G G G A A G G A G G G G A A A A A A A G G A C B C A A G G G G G A G G G$ AAGGAAAAAGGAGGGGAGAGGGCAAAGGAAAGAAAAGGAAGG C G A A G GAA $A \operatorname{GA} A \operatorname{A} G A G G G G A G A G A G G G G G C A A G G G G G G A G A A$ G G G G A A A A G G A A G G A A G G G G G G A A G G C C G G A A G G G G A A A A G G

 A A G GAA A G G G G GAAGGAAAAAAAAAAAACCCCAAGGGGAAGG G GAAAAGGGGAAAAGGCCGGAAAAAAGAAAAAAAGGGGGGGA AA $A \operatorname{GCC} C G G A A G G A G A A A A A G A G G G G A A G A G G A A A C C A G G A A$ $A C G G A A A A G G A G A A G G G G G G G G G G A G G G A G G G G G G G A A A G A A$ G G A A A C G G G G G A G G A A G G T T A A $A G G G A A G G A C C G G G G A A A A A A$
 G G G GAA A G G GCCAAAAGGGAGGGAGGAAGAGAAGAGAGAGGG
 GAGAGGACCCGGAAGGTTAACCGGAAAGAGAGAAAAGGCCAA $A G C C G G A A A A G G G G A A A A G G A A G G A G A A A A G A G A G A A G A G G G$ A G G A A A C C C A G A A G G G G G G A A G G G A G G G C C A G A G A A A G A A A G GAA A A G A G G G G G GAAAGGGCCAAGAAAAAGAGGACAACCAT $C \subset A G G A C C C C C C A G G G G G A A G G C A G G A G A A A A A G G G A G C C C C$ G G G G A A A G A A G G G G G G G G G A A A G G CAAAA A A A A A A G G A A A A G G $A A C C G G A A G G G G A G G G G A G G A A A A G A G G G A A A C A G G A A G A T A$ GGAGCCCAAAGGGGAAAACCCGACAAAAAAAAAAGGCCGGGA $A A C C A G G G G G A A G G G G G G G G G G G G G G A A G G G G G A A A C C G G G G$ AAGGGGAACCCCGGGGAAAAGGGGAAAAAAAAGGAAAACC GA
 A A A A G G A A C C A A A C G G A C G A G G G A A G G A G G G G A A G G A T G G C C A A G G G A G G C C T T C C G G A C A A A G A G A G G G G A A G A A G G G G G G A G $G G C A G A G G G C C A G G A A A A A C G G G G G G A G C A G A G A A G G G A A G G$ CAGGGAAACAAACCGAGGGGGGGGAAAAGACCAAGACAGGCC AAAGGAGACCGAAAAGAGAAAACCACAAGGGGGGAAGGAGAA A GAGCCGGAAGGAGAAAAGGAAAGGGGAAAAAGGAAGABAAA A A G G G GAACAA $A$ A A GAACAAGGGGGCCGAAGGGAA GAGGCCC G C CAGAAGGAAAGAAGGAAACAAAAGGAAAACCACGAAGBCBA A A A A A A GA GAG GAAAAAAGGAACCGGAGAAAAAAGGAGAACA G G G GAGGGGAACCCAAGGAACAAAAAAAAAAAGAACGGGGGG A A G G G GAAAAGGCCGAGGGGTACCGGCCAAAACAGGGGGGAG A A G G G A A G A A G G G G G G G G A A A A A A A A T T C C GA G GCC G A G G A A G G A A A A A A $\mathcal{A} G G G G G G G G G G G G G G G C C G G G G A A G G A A C A A A A A$ AAACGAGAAAGGAAAAAAAAAAAAGGGGGAGGAAATAGAGAA C CAATTGGAAACGAAAGGGGAAGAGGAGGAGGAAGGGGAGAG GAAGAAAGGAAACCGGGGAAAAGGGAAAGGAAAGGAACGGCC
 GACAAGGGGGGGAGCCAACAGACACCAGAACGAAGAAGAAGG AA $A \operatorname{GA} A A G A A G G A G G G A G A A A A A A C C A A G G C A G G G A A A A C A C$ GAAAGAAAGAAGAGGAGACCGGAAAAAAGGAAGGAACCCCGA
 A G G GCCGGGCGCACGAACAGCCGGCGAGAGAACCCCAAGGAA ACGAGAGGAACCGGGGAAAAAAAAAGAGGGAGAGGACAAABAA GACCGGGAAAAAAAAAAAGAGAGAGGGGCCGGGGACCCXCBA A G A G A A T A A G G G A G G G A A G A G G G G C A G G T T C C C G G G C C C G A A A GAAAAAGAGCAAAAAGGGGAAGGAAGGAAGGGAAGAGAGGG

AACAGGAGGGAGGGCCAAGGGGAAAAAAAAGAGGGGAGAGAG G G A A A A A A G GAACCGAGGAAGGAGGGCCAAGGCCAGAAAAGG A A A A A A A A GAAAAAAAAAGGAAACACAAGGAAAAAG GAAAAA A GAAAGAAGGAAAAGAAGAAAAACCCCCGGAAAGCCGGAAGA
 G G G G A A G G G GCAACCAGGGAAACCAAGGGGAAAAAAAAGGGG AAAAGGCCTTGGAAGGCAGGAAGAGACAAACCGGAGGAGAGA AAAAAAGGAAAAGAGAAAGGAAAAAACCAAAAAAAAAGAACC GAGGAGACGAGGAGGGAAAACCAGACAGAGAGAAAAAAAACC $C C G G A G A G G G G G G G G G A A A A G A G A C G C C A C G G G G C C G G A A G A$ GACCAACCGGGGGGAAAAGGAAGGAAAAAAAACCAAAAAAGG G G A A G G G G A A C C G G A A G G A A A A G G G G G G G GCCAAAAAAAAA G G A A G G A A A A G G A A A A G G A A G G G G C C A A A A $\mathcal{A} G G G G G C C G G G G G G$ G G G G A A T T G G G G G G G G A A C CA $\mathcal{A} G G A A A A G G G A A G A A A G G G A G G$ GGCCGAAAAGCCGGAGAAGAAGGGAAAAAGAAAACCAAGGGG GAACAGAGAGGAAAGGGGGAGAAAAAAAAAAAGGAACAAGAA GAAGGAAGACGAAACCAGAAAAGGCCAGGAGGCCAAGGAAAA GCGGCCAGAAAGAAAGGGAGGGAAGAGGAGAGACAAGGGGAC GACAACAAGAAACCAAGGGGGAAGCCAGGAAGCCCCBAGGGG A G G A G G A A G G G GAA $A \operatorname{G} \operatorname{A} A A C C A G C A G G A T G A G G C C G G G A A G C C$ AAAAAAGGAAAAGGAAGGGGAAGAGGCAAGAGCAAGAACCGG AACCAGGGAAGGATTTGGATCCGGGAGGAAACCAAAAGCACAA G GCCGAAAAGGAAAAGAAAAGGGGAGAGCCCAAAGAAAGGGG G G A G C A A G A A A A $\mathcal{A} G G G G G G A G G G G G G G A C C G G G G A G C A A A A G$ A A GAA A ACCCCAAGGAGGAAGGAAGCAAAAAGAACCGGAGAA AAA A A A G G A GAAAAGAAACACAGAAGAGAAGAAAGGGAAGAG A G GAAAAAGGGGGACACCAAAGGAAACCAAACCCGGAAGGAA A GAGGCGGGGAGCAGGAACCCCAGGGAGCCGGCAAACCAGAA A A G G A A A G A G G G G A G G CA $\mathcal{A} G G A G G C A G G G G A A A A C C G G G G A G$ $A C A G C C A A A A A C A G G A G A G G A A G G G G A G C C A G G A A G C C A A G A$ G G G A A A A A G G A A A A A A A A A A A G A GAA G GAACAAA $A$ A GAA G G G G A G G GATGGAGCAGGGGAAAAGGGGGGCCAGCCAAAAGAAGAA CAAAAAAAATGGACAGACGGGAGAAAAAGGGGAAAGAGCCGG A A A A A GAAA A A A GAAACCAGTAGGAAAAGGGGGGAAAGAGGG G G G G G G G G G G A A G G G G G A A G G A A A $\mathcal{A} G G A A A G G G G G G A A G A B A$ A G G A C C A A C C G A A G A A A G G A G G G G A A G G G A G G G G A A G A G G G G T T G G A GAA $A \operatorname{GA} A \operatorname{A} G A A A G G G G G A A G A C C G G G G G A C C G A A A A G$ AAAAGACCCCAGACGGAGGAGAAGGGAGAGGACCAAGAAAAG
 G GACACAGGGGAAACCGGCCGAAAGGACGGAAGBAAGGGGGG GAGAAGGAGAGGGGAGAGAAAAGGAGGAGAGGAGGAAAAGGG G G G G A A A A A A A GAAAAAAAAAAGAAGAGAGAAAAAA GAAGGG A GAGACGGGAAGGGAAGAGAAAGGGGGAACGGGAGGCCAAGG A G G A G A A A GAACGGAAGGAGGGGGCCGAAACCGGAAAAAA GA
 T TA $A G A A A G G A A A A A G A A A A G G A A G G G G G G G G G G G A C A A A A G$ $G G C A A G A A C C A A C C A A G G C C G G G G G G A A A A G A G G A G A A A A G G$ $C \subset A A G G G A A A G G A G C A C C A A A A G G G G A G G G G A G G A A A G A A G G$ GAAAAAGGAAACGGAAGGAAAACACAAGAAGGCAAGGGGGGA G G G GCCAAAAAAGAAAAAGGAAGGAAAGGAAGAGACGGAGAA G G A A A A A A A A A A A G GAGGAAAAAAGGCCAGGGAAAACAAA GA
 GA $A$ A A A $A$ G $A G G G G A G A A G G G G G G A A G G A A G G G G G G A A A A A A A A$ GGAAGAGAAAAGAGGAGGCAAAGGAACCCCACGAAGG
GCCGGAGCCCCAGAAAAAAAAAAGGCAGGAGGAGGGACACB A A A G A A A A A A A A G G G G A A A A GAGGGGCAAAACAAGGCAAGAA G GAAGGCCAGAGAGGGAGGGCGAAAACCAAAAGGAAGAAAAA G GAAAACCGGAGAAGGCCAAAAAAGGAACCGGAAAAAACAAAA $G C G A G G A A A A G G G G G G C C A A G G A G A G G A G G G G A A G A C G C C C C$

G GAAGGGGGACCGAGGGAGGGAGGACAAGGCAGAACGGAGGG A A TAAAAAGAAGGGGGCCAAGGAAGGAAGAGGGGGGGAAGAG A GAGAAGAAAGGGACCACCCAAGAAAACGGAAAAGGGGGGGG AAAAAAGGGGGGTAGAGGAAACAAAAGAGACAAGGGAAGAGG AAGAAACAATAGACGGAAAGAAAGGAAAAAGGCGGGGAACAA GAAAAGACAGAGGGAGAAGGCAGGAAAAAAGGGAAGAAAAAA GAGGGGAGGGGAGGCACAAGGGAAAAAAAGGGGGAAAAAGGG GGAACCCCAACCAAAAAAGAGGCCGAGGAGAACCGGAAAAGG G G G A G A A G G A A C A A G G G G A A A A G G G G A A G G A G A A C C A G G A G A $G G C A A A A A T T A C G G A G G G A A A G A A G G A A G G G A A G A G C C G A G G$ GAAAGGGGGGAAGGCACCCCAAAACAAAGGGGAAGCAAGAGG AACCAAAGAAGGAAGGAAGGGGGGAAAAAAAAACGAAAAAGG GAAGAAAAAAGAGGAGGGACAAAGGGAGAAAAGGGAAGAAGAC AAGGAGAGAGCAAAAAGGAGGAGAAGGCGGAGAAGAAGCCCC AAGGCAGAAGGAGGCCAAGGCCGGAGAAAAAGAAGGGCGGAC GGCACCCCAAAAGGAAGGAAAAGGGGAAGGAAAGAAGGAAGA G G G G A G G A GAGAGGAAAGCCCCGGAGGGGGGGGGAAGAAAAC TAGAAAAAGGCAGGAAAAGGGGAAAAGGGGGGGGAAAAAAGG C CAGAGGGAAAGAGGGCAGGGGAGCAAGAAGGGAGGGGGGGG G GACGAGGGGAACACAGAAGAAGAAGAAGGGGGGGGAGACGA G GACAGAAGGGAAAAGGAGAAGGAAGAAAAACACGAAGGAAA AAAGAGGAAGGAGAGAGGGGAGAGGACCACACGAAGACAGAAA G GAA $\operatorname{G} G A A A A C C C A A G A A G G A A A A A A G A G A A A G G G G G G G G G G$ GAAGAAACAGAAGGAGAAGACCAGAAAAAAGGAAAGAACAAA
 G GCCAGCCGGAGGGAGAAGAGGCCAAGGGAAGCCGGCGGACC C C A G G GACAAGGGGGGAGAGCCGGAGGGAGGAAGGGAAAAGA
 A G G G A A A A A A G G G GCC $C$ G GAGCCAGGGGGCAGGCAGGACAAAG G G G A A GACGGGAGGAAGGGGGAGACACAAGCAGAGGAAAAAG A CAGCCAGAAAAAGGGAGGGGGAGAAAGGAGGAGAGGAAACC A G G GAA A A A GAGAACAGGAACCCCAAGGAAGGGGGGGGGGCC $C \subset G G A A A A G G A A A A G G G G A A C C A A G G G A A A A G C C G G A G G G G G$
 A A G A G A G A $\mathcal{A} G G G G G G A A G G G G A A G A G A G A G G G A A G A A A A A A A$ G G GAGGCCCCCCGGGGCCGAAGGGGAAGAGGAGGGAAAGGGG GACCAACACCGAAGAAAGAGCAGGAAGGAGGGGGAAGGGAGG G GAAGGCCAAGAGAGATAGGAGAAAACAGGAGAGAGAAGAAA G G G G A A $\operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A A A A A G G G G G G G G G G G G A A A A A A A A$
 GAGGGGAAGAAAGGGGGAGGAAGAGGAAGAGGGGCAGAAAAA GAGGAAGGGACCGGGGGAGGGAAGAGAAAGAAGGAAAGAGCC C C C G G GA GAGAGCC GACCAGGAAGGGAAATGGGAGGGGGGGA A A G G G G G GCC G G G GCCAAGAGGGAGACCAAAAGGGGGAGAAA A A GAA A CCGGAGGGCCGGAAAAGGGACAGGGAGGAGAAAAAA G GAAGGCCGAAGGGGGAGAAAAAACCGGAGAGAAGGAAGAAA G A A G A A A A G GCCAACAGGGGCCGGGGGAATAAAAACAAGGGA GAGGACAGCCAAAGGACCAAGGGGAGAAGGAAAAGGAAAAGG ACAAAACCAAAGGGGGGAAAAAAAAGGAAAAAGGGGCCACCC G GACAAAGCAAGGAAAGGAGGGAGCCACCCGAAGGAGGAAGB GAGCGGAAAGCAGAAGGGAACCGAGGAAAGACAAAAACGGGG
 $G G A A C A G G A G G G G G G G G G A A G G G G A G A G C C A G G A G A A C A G G G$ C C G A A A A C G A A G G A A A CACCGGGGAGGACCGACAA GAA G GAG G G G G G G A A G GAA $A \operatorname{ACC} C A A A G G G G A G G A A A G A A G G C G A G G A A$ G GAAGAGAAAGGGAGGGAAGCCAAGGAGCCAAAGAGAGAAGB GAGAAAGGAAAAGGAAAACCAAAAAAAAAAAAAAGGGGGGGG A A G G G G A A A A A A A A G G G GAAGGGGAAAAGGAAGGGGC CAAAA G G G G G G G G G GAAAACCAAGGCCGGAAGGGAAGACAAGGAAGA

CAGAGGGAGGGAGGAAGAAGCAAGAAAGAGGAGAGGGGAGGA A GAGACGGAGGGAAAAAAAAAAGGGGAAAAAGAAAAGGAGGA $G G G G A A A A A G A A A G G G A G G A G A A G A G A G A G G G A G G A G A G G G G$ GAAGAGAAAGGGGGGGGGGGACACACAAGGGAGGGGAACAAA A GAGAGAAGAAAAGAAGGAAAGAGGAAAAGAAGAAAAAAGCA A A G G A A G G A G G G C A GAGGAGCAACAAAAAAAAGAAAGAAGCC GAAAGAGAGGAAAAGGAGGGAAGGAAAGGGGGAAAAGAAACC G GAAAAAAGGGGAAGGGAGAAAAAAGAAGGAGAGGACAAAAC GAGAGGAGAGCAAGGGGAAGAGAAAAAGAGAAAAAGAAACBG G GAAAAGGAAGGGGAAGGAGGAGAGACCAAAAGAAAAGAGGG A GAGCAAAGAGAAAAGGAAAGGGAAGAAAGGGAACCCCGGGA AAGGAAGGCCAAAGGAGAAGGAGGAAAAGAGGCCAAGGCAGB G G G G G G G A G G G GCCGGAAGGGGAAAAAAAAAGGGGGAACAAA GAGAACAGGAACAGACAGACAAGAAGCAGAAAAAAAGGAGAA AAAAAAAAAAGGAACCGGGGCCAAGGGAAAAGCCGGAAGGAG CAGGGGAAACGGAAAAGGAGGAAAGGGGGGGACCAACGGGGG A A A A G GAGAAGGGAGAGAGGCCGAAACCGGCCAAGGAAAAGG A A A A G G G G G G A G G G A A G G G G A G G G A A A G C C C A G G A A A A A A C C $G G A A G G G G A A G G A G A A G G A A A A A A G G G G G A A A A A G A C C A A A A$ A A A A A A G G A G A TAGCGGGAAAAAAAAAGGGAAGGAAAACCCC CACCGGAAAGGACAGAGGAGAGGAAAAAGAAAAAAAAAAGAG
 GAGAAGAGAGGGAAAAGAAAAAAAAAAAAAGGGAAAGGAGAA $G G A A G G C C A G A A A A G G C C G G A A A A G G G G A A C C A A C C G G G G A A$ GAGAGAGAGAGGAAGGAAAGTAAGGGAGGGAGGAGGGGAAAA G GAAAAAAGGAAAACCGAAGAGGGAAAGGACCAACCAAAGGG AAAAGGCAGGGGACGGAGAAAAAGAAAAGGGGAAGGACAGAG GAACGGGGAGAGACAGAAGAAAAGAAAACCGGAACCACAGAA $A \subset A A G G G A A A G G A A G G T T A G A A G G G G A A G A A A G G A A A A G G A A$ $A G A G A A G G A A G G G G G G G G A A C C A G A A A G G A A A G G A G A G A G A G$ A G A A A A G G G G A A G G G G A A A A G G G G A A G G G A G G G A A A G A A G G G AAACAACCAAACAGAGGGAAGGAGCCAATTAGAGGAGGGAAA CAAAAAGGGGGGAACCAAAAGGGGAAGGGGGGGGGGAGGGCC AAAAGGCCAAGGGAAAGGAAGAAAGGAACCAAGGAAGAGGAA AAGGAAAAAAAAGGAAAAAAAACCACACCCAAAAAAAAGGAG
 A A G G G GAACCCCGGAAAACCGGAAAAGGTTGGAACCGGGGAA G G G GAACCAAGGAAGGGGCCAAAAGGCCAAAAGGAAGGAAGA G G G GCCCCGGCCAAAAGGAAAAAAGGAAGGAAAA GGCCGGGG A A A A G G G G G G A A G GCCAAAAGGGGGGAAGGAAGGAAAACAAA AAAAAACCGGGGAAAAGGGGAAAAAAGGAAGGAAGGGGAGAAA A A G G A A G G G G G G A A A A $\mathcal{A} G A A G G A A A A A A G G G G C C A A G G G G G G$ G GAAGGAAAAAAGGAAAAAAAAGGAAGGCCCCAAGGAAAAGG G GAAAA $A \operatorname{A} A A A A A A A A A A A G G A A A A G G A A C C A A G G G G G G G G G G$ $G G A A G G A A G G G G A A A A G G G G A A A A G G G G A A G G A G A C G G G G G G$ G GAA A G G G A A G GCAGGAGAAAGGGAGAACCACGAAAGGAAAA A G G G G G A G A A G G G G A G G A G A A A A A A A A T A A A G G G G G A C A G G G G G G G G GAACCAAAGGGAGGGGAAAGGAAAGGAGGGAA GAAAAGG ACGGCAGGAGGGAAAAGGAGCCCAGAGGCCCCAACCAACCAA G G G G G G A A A A G A A A A A A G C C G G A A A A A A A A G GAAAA A GAA CA GACCACAGACAAAAAAAAAAAAAGACAGGAGAGGGGTTGGGG AAAGGAAAAAAGGGGGAGAAAAAAGAAACCAAGGGGAAAAAG G GAAGGAAGGGGCACAGGGGAAACGAAAATCAAGGGAGAACAA A A A A ACAGGGGAAGGAGGACAAGGCAGGAGGAAGAAC
A A A A A G G GAA ACCCC GGGAACAAGGAGAAGGAAAGGGAAGG G GACGGCCAACCGGAGAAAACCGGAAGGGAGGGGAACAAAGG A A A A G GAA A A A A A A A G G GCCGGTTGGGGAAGGGGGAAAAA G G A GAGATGGAAAAGAAGGGCCCAAACCGGCAGGGGAGAAGAAA G G G G G G G GATAAAAAAAAGGGGAACGAGGGGGAGAAGAAAGA

G GAGCCGGAGGGAAGAGGATAGAGAGCCGGGCAACAGGGGGG
 A A G G G G G A A A G G A G G G A G G G G G G G A G G A A A GAGGC C A A G G G A A G GAGAGAAGGGGGGGGAAGGGAGACGGAGAAAAAAGAAGAA GAGAGACCAAGAAAGGGGAAAAGGCAAAAAAACCAAGGAAAG $G G A A G C G G A G C A G G G G A G A A A A G G G A A A G G A A A A G G G G G G G G$ GAGAATGGAAGAGAGATTGGGGGGGGGGAGGGCAGAABAAGG T TCCGGAAAAGGAACCGGAACCGGAGGAAAAAGGGGAACCAG
 GACCCCGGAAAAAAGAGGAAAGGAGGAGGAGAAAGAAAATCG GAGGACGAGGAGAGAGACGGAAGGAAAAAATTAGGGAGAGAA $A G C C G G G G G C G G G A G G A G G A G G G G G G G G G G G G A C A A A A G G A A$ ACGGAAAAAACCGGCGAAGGAGGGGGAGCAGAGGAGAAAAAT G G GACCAAGAACGAAAAAAGGGGGGGAGCCCCAGAGAGAAGA ACAAAGGAGGGGGAGGCCAGCAAGGGGACGGGCCGAGGCCGG $C \subset C \subset A A A A G G A A A A G G A A A A A A A A A A A A G G G G G G G G A A A A G G$ AAAACCGAAGGGCAGGCCCCCCTTCCGGAAGAAAAAACAAAG A ACCAAGAAAGAACAAACAGGGTAAGACCCCAAAAGGACACC A G G G GAGGGGGGCCAAACACAAGACCGGGAAGCCAAAAGAGG A A G G A A G G A G G A A C A A C C A A A A T T G A A G A G A A G A A A A A A C C A A GAAGAAGAGACACAGGGCCAAAAGGAAGGGGGGAAAAAACC A GCC $C$ G G G G G A A A G GAGGAAAACCGGGGGGAGGGGGGAA GAA A A A A A A A A GAGGAGGGAAAAAACCAAGGGGGGAAAAAAGAAA A A G G A A C C G G G G A A A A A A G G G G A A A A G GAA A A A A A A A A A A C C A A A A G A A A T T C A G G GAAAAAAA A A A $A \operatorname{A} G A G G G G G G A A T A G G G G$
 AAAAGGGGAAATAAGGAAAAAAGGGGACCAAGAGAGGGAACC GAAAGAGAGACCAAAACCGGGGAAGAAGGACACGAAGGAGGG AAAAGGCCAAGGAAACAAAAACCCAAAGGAAAGGGGAACA GA A G G G GAGGAAGAAAAAGGCAGCAAAAAACCGAGGGGAGAGAA C C G G G G A A C A G G G G A A A A G G G A GAGGAAAACC GACAAA G G G G G GAGAGCCGGAGAGGGCCGGGGAAGAGAAGGAGAAGAACAAG GATAACGGACGAGGAGAGAAGGACGGGGGAGAAGAACCAGAA A A G G A C A A A G G G G G G G A A A A A A GAAAAACCCCAAG GAAAAAA G G G G A G A A C C G A G A A A A A A G GAGGGAACGGCCCAGAAGAAGA A A A A A A G A G GCAA $\mathrm{A} A \mathrm{~A} A \mathrm{~A} A C C G G A G G G G G A A A A G G A A A A A A G G$ G GAGAGAAAGGGAGAAGGAGGGAAGGAGAAAACCAAGGGGGA GAAAAACCAGCAAGAGGGACGGGGGAAAAAAAGGGGGGGGGA A A G A G G G G A C A G G G A G A A G A A G G A GACCAAGGGGAAAA G G G G G G G G G A G G GA G G A A A A GAGGAAAGAAGGACAAAAAAGAAA GA GGCCCCGGAACCGGAAAAAAAAAAGAAAAAGACCGACGAAGA G GAAGGAGAAAAAAAACCGGCCAACAGGGAGAAAAAGGAAGA AAAACCAAGGTTGGAGGAAAGCAAGGGAGGAAAAGAAAAAAG G G A A A A G GCC G G A A G G G G G G A A C C G GCCGGGGAAA GAA G GAA A A A A A A A A A A A A G GCCGGGGGGCCAAGGAAGGCCAAGAAAGA A A G G G G G G A G G A A A GAAA $A$ A A A GAGCC GAGAGGAACCA GAGAA
 C C G G A A G G A A G G A GCCAGGCGGGGAGGAAAAAAAAAGGAGGG A GAAGGAAGAAGGGAAAGACCCGGGGAAGGAAACAAGAAAAA A A A G A C A G A A G A A A G G A A G A A A A C GACCGGGAGGAACC G GAA
 G GAAAAGGGGAACGAAAGACAGGAGGAAAAGGAGGAGACCAA
 AA $A G A G G A A A G G G G G A A A A A G G G G G A G A G G A A G G G G A A G A G G$ A A A A A A G G GAA GAAGGCCCCAAAGAAGGCCGAGAGAGACGCC GA GA $\operatorname{G}$ A A A A A G A G G A C G G A GACAGAAGAGGGGACAAA GAAAC G G G G A A C C G G G A A A A G G G A A G G C C C C G G G G G G G G G G G A G G A G G G A A G G A A A G C C G G A A A A A A G G A A G GAGGGGGAAGAACAAAC GAAAAGAAAAAAAAAGGAGGAAAAAAAGAGGGAACAAAAAGG

AAGGGAGAGAAACACAGGAGGGCCCCCCGGAAAAGGGAGGAG
 GGGAAGAACCGAGGAAAAAAAACCAGGAAAGAAGAGAGCCGA AAAGGAGAGAAAGGGGGGGGAGAGCCGGCAGGGGGGACAACC G G GACCAAGAGGGGGGGGAGAAGAAAACGCCACAGAGGACGG
 A GAAA A A CAACCCCAAGGGGGGGGGGGAAGGGGGGGGAGGAC G GAGAGGGAAACAGGGGGGAAACAAAAAAAAAGGAGGAGGAA A A GAGAAAAAAAAAAAAAGGGGCAAAGGGGAAGAGGCCAACC G GAAAGGAAAAAAAAAAAAAAAGAAAGGAAACAAAGAAAGCG GAGGAAAGAGACAAGGGGGGAGGGGGAGGGGGGGCAGAAAAA AACACCGGCCAGGGGGCAGAAGCCAGATAAAAAAGGCAAAAG G G G G G GCCAAGGAGAAAGAGAAGGAAAGGGAGGGAAAAAGCC GAAAACAGCCAAGGACGGGGAAAGAAAAGGAAACGAAGAAGG G G G GAGCAGGAACCCCGGGGCCAAGGGGAGGGCCGGAAAGAA G GAAAAAGACGGAAAGACGAGGGGAGAGACAGAGGAAAAAGA CAGAAAGAAAAACCACAGGGAGAGCCCCAGAAGGAAAGAAAA GAGGGGAAGGGGAAGGGGAAAAAGGAGGGAAGAGACAAAAAA GAAGGGCCAACCAGCACCAAAGGGGGGGGGAAGGGGGGGGGG AA GAAGCAGGGGAGAACAAAAAAGAGGGAACCGAATGAGACC ACGAGGGGAAGGACGGAAGGGAAACGAACCAGGAAGCCGGGG A A A A A A A ACCCAAAAAAAGGGGCCAGGAGGCCCCAACCGGGAA GAGAGGAACCGGAAAGAGGAAAGAAAAAAGAACCAGGGAGGG AA GAAAAAGGGGAACAAAAACCCCAAGAGAGGAAGGAAAACC AAGAATAAAACCAGAAAAAAGAAAGGAAGGCCAGAGAATTAA AA $\operatorname{A} G \mathrm{G} G \mathrm{G} G C A G G G G G G A C G G T A C C A A G A A G A A G A A A G G G G G G$ G G G G G GAAAAAAGGCCGGAAAACCAGGAGGCAAAAAGGAGAA A TAGAGCAGAAAAAGGGGGAGGAGAGAGAAAAAAGGGAAGAG A GAC $A \operatorname{CGG} \operatorname{G} A A A G G A A G G G A A G G G A G G A G G G G G G C G A A G A G A A$ AGGGCAGGGAAAGACCGGAAAGAGAAAAAGAAGGAGGGAGAA GAAAGGAAAGAAGGGGGGAAGAAGAGGGCCCCCAGAAAGABA AAAATACCGAAACCGGGGGGAGGGAAAGACAGGGGGAACCGG GACCCCCCAGAAAAAAACGGAAGAAAAGAAGGGGGGGGAAGG G GCCGGCCAACCAGAAGGAAGGAAGAAAGGAAAAAACCGGCC G G GAGGGAAAAGAGCCAGGAAAAAAAAGAAAGAGGGAAAACC
 ACGAGGGGAACAGGGGAACCGGAAAAGGACGGCCGGGAAAAA GAGGGGGGCACCAGGGGGAGAGAGAGGAGGGAGATTAACCBG A A A G A A G G G G A GAA A G G G G G G G A A A A A A GAA A GAAA G G C C A A
 GGGGAAGGAGAAGGCCGGAAGGAAAAAAAAAAGGAAAAAAAA $A G C C A G G A G G C C A G G G G G A A A A G A G G A A A A A A G G G G G G A G A A$ ACAGAAGAAGAACAGGCGAAGGGGAAACGAGGGAAAGGAGAAA
 A A GA $A$ A $A$ A $\operatorname{A} A A G G G G G A A G G A A A A A A G G G G A A G G G G A G A C A A$ A G A A A G G A A A C C G A G G C C G G A G G A G G G A A GAAAAAA A G T T G G A A A G A A A G G GCCAA $\mathcal{A} G A G C C G G G A G A A G C A A A G G G G G G A G A G$ GAAAGACCCCAGGGGGGGCAAACCCAAAAGGAAGGAGGAGGG AAAGAGAAAAAAACGGGAGGGGCCCCGGAAGAACGGCCGGCA G GAAAA A A GAGGAAAAAAAGGGGGGGCCGAAGAAGGAAGGAG G GAGAGGACCGGGGCCGGGGGGACAGAAACGGGGGAGGGGGG C C G G G G G G GAAGCCGGGGGGAGAAAAAAAAAGAGAGAAAAAA G G G G A A T T G G GAGAGGAAGGAGCCAAAAAAAAAAGGGGGGGG AAAAGAGGGGAAGGGGAAAAAAGGGAGACAGGGGACG
GCCAAAGGGAAAGCCGAAAAAGGTTGGAAGACCAAAACCGA C CAACCAAGGGGAAAAAAACGGGGAGTAAAAAAAAAGGGGAA G GAA $A \operatorname{GGG} \operatorname{GA} A C C G G G G A A C C G A G G A A A A G G G A G A G G C A A A G G$ ACAAAAAAGGCCAACCAAGGAAAGGAGAGAGAAAGGAAAABG $A A G G G G G G A A G G A A G G A A G G G A A A G G A G C C C A G G A A A A A A A A$

A A GAAAAAAAGGACGGAAGAAGCCAGAAACGGGGGGGAGAAA G GAGGGGGAAGGAAGGGAGAAGGAAAAAGAACGGAAAAAAAG GAGGCCAAGGAAAAGGGGAAGGAAAAAAGGGGGGAAGGAAAAA AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G A A G G G G G A G A G G G A A A A A A A A G G G A A G A C G C A$ G G G G G G G G A G G A G G A A A G G G C C G G G G G G G A A A C C A A CA G G C A A A G G A A G G G G G G G GAGCAAAAAAGGGCAGAAAGGAACAAAAG A A G G G GAGAAAAGGGGGAGAAGAAAAAAAAACAA GAACGGCC AAAAAAAAAAGGGGAGAGACGAAGCAGGAGGGGGAAGGAGAA G G G G G G G G A A G GAACCCCAGGGAAGAAGAGAAGGGGGGCAAA AGGGGGAAAGAGAGCACCGGGGGGAGAAAACGACAGGAGGGG A A A A A A A A G G A A C C G G G GCA $\mathcal{A} G G A G A C A G G G G G A G G G G A G A A$ A G GAAACCAACACAGGGGGGGGAAAAGGGGAAAAGGGAAAAA GAAGTAGGGGGGAAGGAAGGAAGGAAAACCAACCGGGGAAGAG $C C G G A A A A G G A A A A G G G G A A A A G A G G A G C C G G G C T A A G G G G A$ GAAGGGGAGAGGGGGAACGAGGGGAGAGGGGAGGGGAAAGGG A A A A A A G GACAAGAGGAGGGCCGGGGGGGGAAGGAAAAGACC C C C C G G A G G G G G G G G G A A G G A A G G G G G G C C A G A G A G G G G A G A G G G G G G A G G G G G A A A A A A G G G G A A A A G G A A G G G A G A A G A G G A A G G G G G G G A G A GA G CA $A$ A $A C C C C G A G G G G G G G G C X A A C C G G G G$ G GAACCCCCCGAGGGGGAAAGGCCAAGAGGGGGAAAGGGGGG $C \subset G A G G A G G G A A C C G G A A A A C C A A G G C C G A A A C A A G G G A T A G$ A G GAA ACCGGGGACCCGGGGGGAACCAAGGAAAAACAGGGGG G GACAAGAGGAAAAAAGGAAAAGAAAACGGAAAAAGGAGGGG A A GAA A A C G A A A G G G G G G G GAGAGAAACGGGACC GAAAAGGG $G G A A A G C C A A G G G A G G A G A A G G G G G A C C G A G G G G G G G A A A G G$ G G GACCCCAGGGAACCGGGGGGGGAAGACCGGCCAAAAAAAA GAGACAACGGCCCCGGGGGAGGGGGGCCAGACAAAACGAGCC GAACAAGGAGGAAACCGGGGACGGAAGACCGGAAGACCGGCA
 $G G A A G G A A A A A G G G G A T T G G G G G G A A G G A A A G G A G G C A A A G A$ G G G GAAAAAGACAAAGCCGGGGAACCAACCGGGGAGAAAABA CAA $A \operatorname{G} G A A A A G G G G A G G G A A A A A A G G G G G G A A C A A A A G A A A G$ AACCGAAGAGCCAGAGAAAGAGTTAGCCGGAACCGGGGAGAA A GAGAAAAAGGGGGAAGGGGAAGGAACAAGGAGAAGGGCAAA G G G G G G G G A A G GCACCAAAAAAGCCAAGGGCCAGCCGAGGGC AAAGACGGCCCAAACCAAGGAAAAGGGGAAGGAAAAGAGGAG CCATGGAAGGAAGACAAGAAAAGGCCAAGGCAGGAAAAAAGG AACCGGGGAAAAAAAAGGGAAAAAGAAAGAAGGGAGAAAGGG AACAAGAAAAAAGGAAGGAGAACCGAAGGAAGGAAAAGAAAA A G GACCCCCCGGAAACCCGGAAGGAAGGAGGGGGAGAA GAAAA $A C A G A A A G A A A A A G A C A G A A C C G G A A G G G A A G C C A A G G G G G G$ $A G G G A G G G G G A A G G G G C C A G A A G G G G A A A A G A G G G G G A A A G G$ G G GAGGGGAAGAACGAAGGAGGAGAAGGGGGGGGACAAGAAC A A G G A A G G G GAACCAAGGGGGGGGAAGGGGAAAACCGAAAAA A A A A A A A A A A A A G G C C G G A A A A G G G G A A A A GGGGGGTTAAAA G G G G A A G G G G G G C C G G G G G G G G G G G A G A G G G G G G G G A G G G G G A GCAGGCAAGAAGAAAAAGGGGAAGGAACAGGAAGAGAAAAA A G GAGGAGAGGGCCAAAAAAGGAAAGAAAACAGAAAGGGGCG G GAAAAAAGGAAAAGGGGGGAGCCAGAGAAGGAAACGGAGAA C C A G A GAACCGGGGAGAGGGAAGGAGGGGGGAGAAAAAAAAA A GAGAAGGCCGGAAAAGAGGGAGAAGGAAAGGGGGGCAAAAA G G G GAAAAAAGAGGGAGGGGAAAAACAAGAGGGGGAAAAAAA G G G G G G G GAACCCCAGCCGGAAGGGAGAAGCCGBACAGAGGG G G G G G GCCAGGGAAGGGGAAGGAAGAAGGGGGAAAGAAAAAA GAGGGGGGGGGGAGCAGGGGAGAGAAGGAGGAGGGGGAGGGG G GAACCAAAAAAGGAAGGAGAAGGAAAGGGCCGAGGGGAGGG G G GAGGCCGGAGCAAAGGAAGGCCGGGAGGGAGGGAGGAGAG GAAAAAAAGGAGGGGGAGAGAAAAAACCCAGGAAAAGAAGAG AGAAGGGGGGGGAAGACCCCACAAAAAAAAGAAGCCAACCGG

A A A A G G A A G G G GAGCC $\mathcal{A} A G G G G A A G G G G G G G G G G A A A A G G G G$ AAAGCCCCAAAATTGGAAGGCAAAAAGAAGAGGAGAGAGAAA AAAGAGGGAAGGAGCCGCGGAAACGGAACACAGGAAGAAAGG AAGAAGGGACAGGAGGACAGCCAGAAAAGGAAAAAAAAGGCC A A G G G GAA A GCCGGAAGAGGCCAAGAGGGGGAGGGAGGGGGA
 G G G G G G A A G G A A G G C C G G A A G G G G C C G G G G G G G G A A C C C C C GGGGCCCCCCAAAAAAGGAAAAAAAAAAGGGGGGAAGGAGAG ACAAACGGACAAGAGGGAGGCCGGAAAGGGGGGCAAGAGGAC AAGGGAGGGAACGGCCAAAAGAAAAAGAGGAAGGAAAAAGAG
 G G G G A A G G G G A A C C A A G G G GAA A A G G A G G G TAAAAA A A A G G G A A A G G A A A A A A G G G G G G A A A GAAGGGGAGAACCAACACAAAAA C CAG G G TAGAGGGAAAAAAGAGAGGGAAAAAAAACAAAGGAG A GAATTCCAGCAAGAAGAAACCCCGAGGGGGGAGGGAAAACC G G G GAACCAACCAAGGGGAAGGGGTTCCGGGGAAGGCAAAGA A A A A A A A C G G G GA $A \subset C G G G G G A A A C A A G A G G G G G A G G G A G C A$ AAACGGACAGGAAGAGACGAGGGAGGAAACGGAACAGGAAGG $G G G A G C G G A A G G G G G A A G G C A C G A G G G A A A A A A A A G A A G G A A$ A A G G G GAGGGAGAAGGAACAGGAAAGGAAACCAAAAGGAGAA G GAAAAAAGGGGGGTTGGCCGGGGGGAAGAAAGGGGGGCCCA A GCAA C CAAAGAGGAGGACAAGCAGGGAAAGAAGAGAGAACAC G G G A A A G G A A G A G G A A A G G G G G G G G A A A T TA G G GAAC C GAA A
 A G A G A G A T A A G A A A G GAGCCGACCAAGGCAAAAAG GACAA GA ATGAGGGGAATTAACCGGACAAAAGGGGGGAAGGGGAAAAAA AA $A \operatorname{GGGGGGGA} A \mathrm{~A} A \mathrm{~A} A A A A A A G G G A C A C A A G A A G G G G A G A A G A$ A GACGGGGCCGGAGGACAGAGGAACCGGAAGGGGAAGABAAC G G A A A G G G A A A A G G G G G G G A A GAC $\mathcal{A} G A G A G G G G G A A G G A A A A$ GAAAGGGGAACCGGGAGGGGCCAGAAAAGGGGAAGAAGGGGG
 G GAAGGCAAACAGAGGAGGGAAGGCCGGAAGAACGGGAGGAG G G G GAGGGAGAAAAAGAAGGGGGGGGAGACGGCCAAAACAAG A A G GCCAAAACCGGGGAGAGAGGGCCAAGACAGGAGGAAGAG G G A G G A G G G G A G G G GAACCCCACAGGGGAGGGGGAACCGGCC GAAAAACCGGAAAAGGGGCCGGAGGAAGGAGAAGAGAAAAAA G GAGAACCGGAAGGAGGAAGGAGGGAGGCCGAAAGGCCGGGG

 AACCAGAACCGAAAGGAAAACCAAGGGAGAAGAGAAGAAAAG GAAGAAGAGGGAAACGGGGGGGGGGGGGAAAAGGAACAAAAA
 AAGGCCCCAAGGAAGGGGGGGGAAAACCAAAAGGGGGGGGCC G G G GCCAAAAAAAAAAGGAAGGAAGGGGAACCGGCCAAGGAA A A G G G GAA A G G G G G G G A A A A C C G G G G A A G G G G A A G GAA $\mathcal{A} G G G$ A A G G G GAAAAACCGGAAAAGGGGAAGGAAGGAAGGAAGGGGCC G G A A A A A A A A A A A A G GAAAA $A$ A GAA G GAAAAAAAA G GACAC G G A A A A A A A A A G G G G G G GAGAAAGGGAAGGAAGGCCAGAGAAAG A GAA A GAGGAGAAAGAAAAACCAGACAGCCAAAAGGCCGGAC G G A A A A A A G G G G C G GAA $A \operatorname{G} \operatorname{A} A A G A A G G G G G G A G A A A A G G G G G G$ A A A A A A G G A A G GCCAAGGTAAGGGGGGGAAAGGGAAGGAAGG A G GAGAAGAAAGAAAACAGAGGAAAAACAAGGGGAAAGAAGG
 A A G G A GA $\mathrm{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A C A A A A A A A C C G G C C G G A G A G A$
A G G G G A A A A A A G GAAAAAAAAGGAAGGAAGGCCGGGGGAAA A A A A A A A A G GAAGGCCAAAAGGAAAAAACCGGGGAAAAAAAA
 A A G G G G G G G G A A G G C C G G A A A A A A G G A A A A A A G G G GAA G G C C GGAAGGGGAACCCCAAGGAAAAGGAAAAAAAAGGGGAAGGGG

AAAAAAGGGGAAAAAAAAAAGGGGAAAAGGGGGGAAAAAAGG G G G G G G A A A A A A A A A A G G A A A A $\mathcal{A} G G G G G G G G G G G G G G G A B A A$ C CAA $A \operatorname{GGGGGGC} \subset A A G G G G A A A A A A G G A G G A A A A G A T A G A G A G$ GAGGGAAGAGCAACGGAAGGGGGGAAAAAGAAAAGGAACAAA G G G GCCAACCAAGAGGGGGGGGAAAGAACCCCAGGAGGGAAA A A A A G G G A $\mathcal{A} G G G G A G G T T A A G G A G G G A A G G A A A A G G A G G G T T$
 AAAGGAGGAAGGGAAGGGGGAAAAGGGAACCCBAAGAGAGAA $G G A C A G G G G G G G G G C C A G A C A G A G G A A G A A G G A A A A G G G G G A$ $C C G G A A A A A A A G A A G G A A G A G C A G A G G A A A G G G G G A G G A A G A$
 A A A A A A C A A G G A A G G G A GAGGGAAAAAGAGGGGGGGAAAA G G
 G GAGCAAGGAGAGAAAAAGGGGAAAAAAAAGGAAGAAAAAAC A G G G G G G G A C A A A G GCAA $\mathcal{A} G G A G A G G A A A C G A G G G G A G A A G G$ GGACCAAGAGAGGGAGAGAAGGGGAGGAGGAGAAA GGGGGGG
 A A G G A A G G G G G A G G A A G G G G A A A A G G G G A G A G G G A A G A A G G G

 G G G GCCGGACAGAGAAGGGGAAAGAGAACAGGGGCCAATXCC G G GA $\operatorname{l}$ GAGAAAAAAAAAGCAGGGGTTAAGGGGGGGGGGAACA T T C C A G A A A A G GAA $A \operatorname{GGGGGAAAAACCGAGAGACAGGAGAAGA}$ GAAACAAAGGCCGGAAGGACGGGAAAAGGGACAAGGGGGGGG A G A A G G A A A G C A A A A A G G G A G G G A A A G G G GAAAAAAACCACAA $C \subset C \subset A G G G G G G G G G A A A A A A C C G G G G G A G G A A C A G G A A G G A G$ AAAAGAAAGGGGGGGAAGAGAGAAGGCCAGGAGGGGGAABAA A A G G A ACCCCAGAAAGAAAGGGAGCACCGAGGGGACCACCBG C CAA $A$ A A G A A A A A A C A G G G G G G A G A A A A GA G G GA G G G G C C G G ACGGGAAGATAAAAGGGAGGAGCCCCGGAAGGAAAAAAAGGG A A A A A GAAA A A G G G GAAAAAGGGAGGAGGGGACCAAAAAGAG A GAAGGAAAAGGAAAAAAGAAAAGGGGGACGGGAGGGAACGG C CAAAAAGAAAACCGGAACACCGATAAGAAAAAAACGGAAGG A G G G A G A A A G A G G G G G A A A GAAGGAGCCGAACACGAAGAGAG A G G G A A GACAGAGGGCCAGGGGGAAGAAGAGAGAAAAGAGAA
 A GAA $A \operatorname{G} G A G G A A A A G G G A C C G G G G C G A A G G G A C A G G G G G A G A$ $C \subset G A G G G A A C G A A G C A G A C C G G A A G A G A A A G G G G G G A A A A A G$ GAGAGAGAAGACAAGGGAGGGAAGAGCCGGAAAAAGAAAGAA G G A A G G A A A G G G G A G G G G A G A A G A G G A G G G G G G A A G G A G G G G $G G A A A A G A C A A G A G G G A A G G A A G G C A A A A C A G G G G G A A A G G G$ GACCAAGGGGAAAGAAGGGAAAGAGGACGGAAGAAACGAGAA G GAAAA $A \operatorname{A} A A A C C A A C A A A A A A G G A G G G A A A A A A G G G A G G G G$ CACAGGAAGGGGGGAAAAAAGGAAGAAGAAGGCCGGAGAAGG G G A A G G G G A A A G G G A A A A G G A G A G G G G G G G G G T T A A G G C C C C $G G C C A A A A A G C C G A G A A G G A G G G A A A G G G G A A A A G G A A G G B A$ A G G G A A G G A A A G A G GAGGGGCGGGAGAGAAGGGGCCGGCCGG G GAGGGAAGGGGAAGGAACAGGGAAGGACAAAGGGGGAAAAG G G GAGGGGCCAAAAGGGGAGCCGGAGAAAGCCGGACGCAGAG
 A GAACCAGAAAAGGAAAAGGTTCACAGGAGGGGGGGAGAAAAA A A A A A A G G A A A C G G G G G GAAA $A \operatorname{AGGAAGGAGCAGATTACAAAG}$ A G G G A C G A C C T A G G G A A A A A G G A C G A G A C C A A A GCCC C G G A G AAGGGAGGGGGGGGGGCCGGGGGGGGAAAAAAAACCGGCCAA A A A A G GAGGGAGGGAGAGGGAAGAAAAAGGCCCAGGAAAAGG G GAAGGAAGGGGGGTTCGCCAAGGGGAGGGAGACCCCCXCAA A GAACAGGGAGGACAAAAAAGGAATTAGGGAAGGGGAAAAAA $G G C C G G G A C C G G A A G G A G G A G G A G G G G A G G A A A A A G G G A G G A$ $A A C C A C A G G A A A A G A G A A G G A A C C C A A G G G G A A A G G C C A A A A$

G G G G GCAGGGAAAACCGACCGACCGGGGAAGCAAGGCCAAAA
 A GAGGGCAGACAGGAAGAAGAAAAGGTTCCGGGGCCCCAGAA G G G GAAAAGGGGAGCCGAGAGAAAGAAAGGCGGAGGAAGGGG AA $\operatorname{A} G \mathrm{G}$ GAGAGGGAGAAAAAAAAAACAAAGGAAAGGAAAAAGA $A C G G G A A G G G G G G G A A G A A G G G A G G G A A A G A A G G A A A A A A G G$ A A A A A GAAAAAAAGAAAGGGCCACAAGGGGAAAAAAAAGACC A G G G G G G G A A A A G G A GAGCAAA A G CAAAAAAGGGAGGGGAGAA AAACGGGGAACCGGAACCGAAAGGGAGGCAGGAACCGAGGGG AACCGGAAGGGGAGAGAGGAGAGGGAAAGGCCAAAAAGAGAA GAA A A G GAAAGGGGGGGGGGAAACGGGACCAAAAGGTTGAGA GAAGGGGGACACGGAAAAAAAGAAAAAAAGGAGGGAGAAAGAG A A G G G GAAAAGGCAGGAAAAGACCGAGAGGACAAGAAAGAAG $A C C A C C G G G G G G G G G G A G G A T A C C A A G G A G A A C C G A A A A C G A$
 AGCCAAGGGGAGGAGAAGCAAAGGAAGGAAGGAAAAAAAGCC GAAAA A A A A A GAAAAGGACCGGGAGGGGGGAAAGCCAAGGCC C C G G A A A A G G GAGAGGGAAAAAGACCGGAGCCAGGAAGAA GA G G GAAGGGGAAGGGAACCAAGAAAGGAAGGGAAGAGAAAGAC A G A G A A A ACCGGAACCGAAGCCGACCAAGGGGGGAGAAAAAA G GAGAAAAAAGGGAAAAAACCGAGGAGGAAGGAAGGAGAGAA G G G GAACCGAGGGGAAAAGGGGAGGGAAAAGGGGAAGAAAGA

 A G A A G A G G G G A A G A A G G G A C G G G G A A GAA CA A A GAA A A G G C C A A A A G GAA $A \operatorname{GA} A \operatorname{A} G A A A G G G G A A G G A A A G A G G A A A A A A A A G G$ G GAA $A \operatorname{GAA} C \subset G G G G A A A A A A G G A A G G A A G G A A A A A A G G G G G G$ C C A A A A G G A A A GAC G G G GCCAGAAAGCCAAGAGAGGGGCC GA GAGGGGAAAAGGAGCACCGGAAGGAAGGGGGGGGAGAAGGGG C C G A A G G G G G G GAAAAAGAAGGAAAGGGGGGGAAAAAGGGGCC G GCCAAAGAGAAAAAAGGGAAACCGACCGAGGGGCCAAAAAG GAGGAGGGTTAGAGCCAACAACGGAGAAAAGGGGAAAGAGGG G GAAAACCGGGGAAGGGGAACCGAGGGAAGCAGAGAAAAAGA G G A A A G A G A G A G G A A A A T G GAAAA $A$ A GAA A A T T G G G G G G G G A A A G A A A $\mathcal{A} C C G G G G A G G G A G G G G G G G G G G A C A G A A G G G C C B G T T$ C C A A G GAGCCAAGGACAGGGGAGGGGAAAGAGAAAAGAGAGA GAAGGAAAAGAAGGCCAAGGAAAAGGGGGGAAAAAAAAAAAG A A G G G GA G G GAA A A A A A G G G G GAA A A A A A C G G G GC C G G G GAA GAACAGGGGAAAAAGGAGGAGGGACCGGACAGCCCCAAAGGG G G G A G A G A G A G G A G G A A G G G G G A A A A $\mathcal{A} A \operatorname{A} G \mathrm{G} G A A A G G G G G G G$ AACGGGAAGGCAAATTCAAGAGGGGGCCGGAAAAAACAGAAA G G G G G G G G G G G G A A C C G A G G G A G C C A A G A A A A G G A G A A A G A C GAAGGACCGGCCGGGAGGGGAAGGAAAGAAAAAGAGGGAGAA A GAA $A \operatorname{GAA} A A A C C C A G G A G G G G G A A G A A A A G G A A C C A A A T A G$ A GAGGACAGAAAGGCCAGGGAAGGGAGAGAGGGGCCAAAAAA G GAA A G G G A A G GAGGGGGAAGGGGGCAGAGAAAAGACAAAAA A A G G G G G G GA G A G A A A A A A GAGAGGAGGGGCAACCCGA G GA G A G GACAGGAGGGGACAGGAGAGAAAGCAGGACGGGAGAGGAA
 GAGGAGGAAAGAAAGAGACCAAAAGGAAAAGGGGGGAAABAA G GCAAA $A \operatorname{A} G \mathrm{G} A \mathrm{G} G A \mathrm{~A} A A A C A A G G G A A A G G G G A G A G G G G A A A A A$ G GAGAAAAGGGAAAACAGAGAAGGGGAGCAGAGAAGCGAAGG A A A GACGAGAGAGAGAAGACGGGAAAGGAAAACAAAGGCCAA GGGAGCACGGAGACGGAGGGGCCAAGGAGGCCAGGGA
ACCGAAGAAAAAGGGGGAAAAGGAGAAGGACGAGAGGGGCC

 GAAAACGAAAAGAGAGGGAGAAGGGAGGAAAACCCAAACAAA A GAGGGACGAGGGGAAAACCAAAAGGAGAAGGAACAACAGGG

AAGGAAAAAAGGAAAAGGGAAAGGGAGGGACCGGGAGAAGGG A A A A A GAGCCGAGGAAGGGGAGAAAAACGGGGCGAAAAAGAG GGGGAAGGAAGGAGAAACGAAAGGGAGAAAAAAGAGGGAGAG G GAGGAGGAAGGGGAAGGAAAGGAGGAAGGGGAAGAGACAAA AACCGGCCAAGGAAGGCCAAAGGGAGAAGGGGGGAAGGAGGA A A G G G G G GCC G A A A GAGGAAAACCAAGGAGGGAGGGCCAGAA A G G G A A G G G G A GAGAAAAGGAGACAAGACACCAGGGGAAAA G ACAGGGAGCGAGGAGGCAGAGGAGGAGAGAGAGAAGAAAAAA AGGAAGAAACGGAGCAGGAGGAGAAGACAAAACCCCGAGAGA G G G GAGGGAAGGAGAAAAGGAAAAAGAGGAAGCACAAAACAC G G GAGGGAGGAAGGCCCCAAAAGAGGGGAAGGAACCAACCBG A GAGACGGAAAAGGGGGGAAAAAAGGAAGGGGAGGGGAAAAG CACCGGCAAGAAACGGGGGGAGGGAGGGGGAAGGGGAGAAGA A A G G G A G G G G G A G G C C G G G G G G G A GAA A A $\mathcal{A} G G G A A G A G G G G G$ AA G GAAAAAAAGAGGGGAAAGAAGGGGAGGGAAAGGAAAGGA AAAAGGGGAAAACCCCGGGAGACCACGACAGGGGAAGEAAAA GAAGGAAGAAGGAGAACAGAAAGGAGAAAAAGCGGGGGCCAA G G GAA ACCAAGGGAACAGAAAGGGGGGGCCAAGGAAGGGGCC G A A A A ACAAGAAACAGAAAAAGAACCGGCCAAAAAGGAAAAG ACAGGAAGCAGGGACCGGCCAAGGAAAAAGAGGGAAAAGGTT G GAACCAAGGAAAAAAAGAAACGAGGGAGGGAAACCGAGAAA
 A A A A A A A A A ACC GAGGACAAAAGGAAAAAAACGGAAGGGGAG C CAGGGGGAAAAATAGGGCCCAGGAGCAAAAACCGGCAAGGA A GAA $\operatorname{G} A A A A A A A A G C A G A A A G G G G A G A G G G G G C C G G A G T X A A$ GAAAGGAACCGGCAAAAAAGCAATGGCCAGAAAGAGAGAGCA AAAAGGAAGGGACCAAGGACAAGGAAGGGGAAGAGGGGGGAG G G G G G G G A A A GAGGGGAAGGGAAAAGAAAGAGCAA GAAAGGG AAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGGAA
 A A A A A A A A A A A A A A GAGAGAGAAAGGAGAGAGGGAAAAGGGG TAACAGGAAGAATTAACGGGGACCAAGGAGGAAGGGAGAAAA CAAGAAGGGAGGAGAAGGAAACAGAAAAGCGAGGAGCCAAAAA

 AAGGCAGGAGGAAAGGGGAACAAGAGAGAACCGAACAAAACC AGCAGCGACCAGAGAAGAGGCGGGCCAAAGGGGAGAAGAGAG $A C A C G A C C A G G A G A A C G G G A A A G G G G G G G G G G C C A A G G G G A A$ GAGGCAGGAAAAAAAGGGACACGAGAGGGGAAAGGGCAAAAA A A GA G A A A A A G G G A GACAGAGAGGCCGGAAAGAAAAGABAAA CAGAAAGGGGAAACAGACGGGGGAGGAGGGAGGGGGCCABAA G G GCAGGGAGAAGAAGGGACCACCGGCCAAGGAAGGAAAGAG AAGGGGAAGGAAGAAGAATACCCCGAAAACAAGGAGAAAAAA AAAGAAAAGGGGGGAAAAAAACCCGGGGGGCCAAAAGCAAGG $C \subset A G A G G G A A A A G G A A C C A A G G C C A A G G A A G G G G G G A A A C A G$
 A A A A A A G G A A A A A TAA A G G G G A A GAAGGTTAAAAAAGGCCCA AA GAAAGGAACCAACCTAAAGGGGGGAAAGAAGAAGGAACGG G G G GCCTTGGAAGAAGAAGCACAAGGGAGGAAAAAAGGGGTT AACCAACCAAAAAAAAAGGGAAGGGGAAAAAGGGAGCAAGAG CAGAAGGGGGGAAGGGACGGAAGGGGAGGGAAAAGGCAAGAA A A A GAGAAGGGGGGCCGGAACCGGGAGAAACCGAAGGGAAAAA A G A A A A A A A A A A A A A A A A A A A A G GAAGAAACACCCAGG G GAA A A A A A A A A GAAACAAACCAAAGCCGGGAAGGATTAAGAGGAA TAAAGGAGAAGAAGGAGAAGCCCCGGGGGGGGGGCCGAAAGG G G G G A A G G A A G GAAAAAACCGGGGAACCCCAAAAAAAAAAAA G GAACCGGGGCCAAGGGGGGAAAAAAGGGGAAAAAAAAAAAA AAGGAAAACCAACCGGGGAAAAAAAATTGGGGAAGGAAAACC AAAAGGCCAAAAGGAAGGAAGGAAGGAACCGGAAGGAAAAAA

G GAAAAAACCGGAAAAGGAAAAAAGGGGAAGGGGAAAAGGGG C C G G A A G G G G G G G G G G G G A A G G G G G G C C C C G G A A G G A A G G G G A A A A A A A A A A G GAA $A \operatorname{AGC} C A A A A G G G G G G A A G G A A G G G G A A G G$ A A A A A A A A G GAAAACCGGAAGGAAGGAAGGAAAAAACCGGGG AA $A G G G G G G G C C G G G G A A C C A A C C A A G G A A G G G G G G A A G A A A$ A A G GAA $A \operatorname{GAA} C \subset A A G G T T A A A A G G A A A A G G A A G G C C G G G G G G$ A A A A A A G G G GAACCGGAACCGGGGAAAAGGAAAA GAAACCGG A A A A A A A A A A G G A A A A A A A A G G G G GGGGGGAAAAAAG GAAAC G G T T C CAA G GCCGGAACCGGAAGGGGAAAAGGCCGGAA GAAA $C \subset A A G G A A C C G G A A A A G G G G G G A A A A A A C C G G G G A A A A A A A A$ A A GAAAAGGGAAAAAACCAAGGAGGAAAGACCGGGGGAAAAA G G G G G A C C G A C C G G G G G A G G A G G G G A G A A A C C C C A A G G A A A G GAAGAAAGAGAGAGAAGGCAAGAAGGGGGCAAGBAAAGAGGG A GCCAAGGGGAAGGACGACACGGAAAACGAGACCAGGGGGGA GACCGAGAGAACACAGCAACCAGGGAGGAGCGGAGAGAAGAA GAAGAAAACCGGAACAGGAAGAAGCCGGCCAGGAGGGGGAAA A GAAAAAAGGAAGAGAGGGGAAAAAGCAGGGGGGCAAAAACC
 A G GAAGCAAAAGAGCGCAGGCCAAAAGGAAAAGGAGACACAG G G A A A G G G A A C CA G A A G G C C G A G G G G C C A G A G G A A A G G A A G G G G G GAAAGAAGAGGGGAAAAGAAGAACCAGGAGGCCCCGAAA ACAAAGAAAAAGACAGCCGGGGGAAGGGCCGGAAAAGAAAGG C C G A G G A A A A A A A A CAA $A \operatorname{GGGAGGGGAGACAAGAAAAAAGGAA}$ A A G G C A G G A A A A A A G G G G G G C C G A A G G G A CAA A G A A A A G G A A CACCCCATACCCCCAAGAGAAAAACCAAGGAAGGAGCAAAGB G GCCGGGGAAGGAAGGCCAAGGGGAGAAGGACAAAGAAAACC AAGGAAGGAGCCAACAGAGAAAAAAAGGGGGAGGTTAAAAGG G G A A A A A A A GAGGGAGGAAAAGAAAAGAAGAGACAAAAAGAA $C \subset G G G G C A G A G G A A A A A G A G G G G A A A G A G G C C G G G G A A G G G G$ A GCC G G G G G G G A G G G GACAGAGAAAGCCAGCACCAACAAAAG A G A A A A A G A A G G G G C A GAGGGAGGCCAGAAGGACAAAGAAGG GAGGAGCAGGGCAGAAGGAAAGAACAGAAGAGAAAAGGAC GA
 G G A A A A G G G G G G A A G G G G G G G G A A A A G G A A A A C C G G G G A A G G G GCCAGAGGAAAAAAACAGGGGGGAAGGTAAAGAGGAAAAAA C A A A A C G G A G G G G G G G A A A A A A G G A A G G G G GA G G G A G A G G G G A A GAGGAGGGCAGGAACCAGGAGGCAGACGAAGGGGAGAGAA

 G G G GCCGGGGGGCCGGAAAAAAGGAAGGGAGGACBAGAAAAA ATAAAACCCCGGGGGGGGAAGGACACGGGACACCAAGGTTAA A A A A A A G G A A A A $\mathcal{A} G G G G G A A G G G A C C A A G G G G G G A G A G G G G G$ GAGGATCACGGGGGAAAACCAAGGACAGAGAGGAGGGGGAGG $A G C C A A G A G G A G C C A G A G G G A A G G G G G G G G A A A A A A A A A A A G$
 A A A A G A G G CAA $A \operatorname{A} A G G G G G A G G A A A G G C A C C A G A A A A A A G G G G$ AAGGGAGGACCAGAGGGAACCCGAAATTACGACCGGGGAABAA A A C A G G G G A G A A G G G G G G A A A A G G G G G G G G C C G A A A A A G G G G AAACGAAAAGGGCCAACAAAAAAGAAAAGAAAGGGGGGAGAA A A A ACCAGCCAAATGAAAGGCCGGGAGAGGGGGGAAGGAAAA CAAAACGAACAAGGCCGGAAAAACGGAACACCAAAAGGGGGG AACACACAGAAAAAAAAAAAGGAAAAAAAGCAAGGAAAGGAC GAGGAGACCCAGGAAAGGGGGGAAGGGGAAAGAGAGAAGGGG GGCCGGGAGAAAAGGGAGAAGAGGGAGGGGCCAAAAG
GAGAACCGAGGGGAAGGGGACGAGGAAGGAAAAAAGGAAGB A A A A G G G G A A G G G G A A A A A A G G C C G G G G G GAAAAACCGAAA G G G G A A A A A A G G G G A A A A T TCCGGAAAAAAAATTAAAAG GAACC C C G G A A A A G G G GAA $A \operatorname{GGGGGGAA} G G A A G G A A C C A A G G G G G G G G$ AAAAGGAACCAAAACCAAAAGGGGAAAACCGGAAGGCCAACC

G GAACCGGAAAAAACCCCGGAAAAAAAAAAGGCCAAGGGGCC C C C C C C C C G GAAGGCCGGGGAAGGGGAAAACCCCAAAAAAAA GGCCAAAAAAAAAAAAGGAACCGGCCGGTTGGGGGGAAAAGA G G G GAAAAGGCCGGAAAAAAGGAAGGAAGGGGGGGGCCGGCC G GAA $\operatorname{G}$ GAAAAAAGGGGAAGGTTGGAAAAGGAAAAAGGGCCGG
 C C G G G GCCAAAAAAGGAAGGAAGGGGAAAAAA GAAAAGGGGG
 C C G GAAAAGGCCAAGGAAGGAAGGGGGGGGAAGGAAGAAAGG AAGGGGGGAACCGGGGAACCAAGGCCCCGGAAGGAAGGAGAA G GAAAACCAAGGAAGGGGAAGGACAGAAAGGGGGGAAAAAGG G G G A C C G G A G A C G G A A G G A G G A G G C C G G G G A A A A C C A A G G C C C CAAAAAAGGAAGAAGCCGGGGAGAAAACCGGAAA GGGGGGG $A G C C G G A A A A A A G G G G G G A G C C G G G A A A G G G A C A A G A G A A G G$ A A G G A A A C GAA A A G GAA A GAGGAGGGGAGGGACCGGAGAAAA GAGAGGGGAGGAGGAACCGGGGCCAAGGAAGGGGGAGAGGGG $A G A A G G A G G G G G G G A G A G G G G G C C G A C C G G G G G G A G A G A G A A$
 GAAACCTAAAGAGGCCGGGGAAGGAACGGGAAGAAGAGAGAC G G A A G G G G A A A G G A G G G G C A G G A G A A G G G G G G A G A A A G G G G A A A G G G GAAAAGGAAGGAAAACCGACCGAAACCGGGGAAGAAA GAGGAAAGAAGAGAGGAAAAGGAAGGAAAGAGGGAAAGGGCC C C G G A G G G A A G G G G A G A G C A A G G G G G A G G G G G A G A G G G A G C A A G G A A C A A G G A A A A C G G G GACCAGAAAAGAGGGGGGA GAACC A A A GAA A GCCA GAAAAAGGGAAAGAAAGCAAAAGGGGGAGTT G G G G G GCAGGAAAAAAACAGGGAAACGAAAGGGAAA GAGAGG CAGGGGGGAAGGGGAAAGCCCCAGGGCAAACCAAAAGAAAAG C C G G A A G A A C A A GCAG GACAAGCATTAAAGCCAAAGCCAGAG G G G A A A A G A G A GAGGAAGGGCCGGAAGGGGGAGAAAGAAAAG $A C A A G G G G C C G G A A G G G A A G A G G G A G A A A A C C G G G G G A G G G G$ A G A A A G G G G G A A G G G A G A G A G A G G C A A C G A GA G G A G G A A G C A GAAGAAGGGGAAAAGGAGGACAGGGGGGGAAAGAGAAAGGGG A A T TAA A GAAA A G GAAGGAAGGAAGGAGGAAGAAAAGGAGAA CAGGAAAACGACAAAACCAAGAAAACCCGGGAGGAACCAAAG CAAA $A \operatorname{GAA} A G A A G A A G G A G G A G A G A A G A G G G A G A A G G G A C C B G$

 GAGGAGGGACGGGAGCAACCAGAAAAAAAAGAGAAAAAAAAG
 C G G G A A G G GAA A $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GAAACCGGAGACGGGGAAAACAGGAG A A G G G G G G A A CAGAAGAGGGAGGGAAAGGGGGGAGACCACAA G G G G A A A A C C G GCCCAGGGAAAGAAAGAAAAACAAGAAGGGG G GAA A G GAGGCGAAAACCCGCAAGAGGAGGAAGGAAAAGAGG G GCC $C A A A G A G G G G G A G A G G G G G G G A G A A A G A C G G A G G G G G G G$ G GAAGGGACAAAAATACCGGAAAAAAGGAACAAAGGGGAAGAA G G G G A A G GCCAAAAAACCGGCCGGAAGGGGAAAAAAAAAAAA A A G G G G A A G G G G A A A A G G G G G G G G A A A A A A A G A A C C A A A A G G C C G G A A A A G G G GAA A GC CAAGGAAAAAAAAGGAATXCCGGGG
 AAAAGGAAGGGGGGAAAACCGGCCGGAAAAGGAAGGAAAAAA AAAAGGGGAAAACCAACCAAGGCCAAAAGGGGGGAAGGCCGG ATGAAAGAGAGGACGGGGAGGGGGGGGGGGCCGACAGA$G G A A$ A A GAGGGGGAGAAAAAAAAAGAAAGAGAGGGGACAGGGAGAA GACCAGCAAGGGGGGGGGGGACAAAGTAAAGGCCAAGGAAAG A A GAAACCGGAAAAAACAGGGGGGGGGGAGGGAGGGCCACAA G G GAGGCCCCGAAGGGAAAAAAAAAAAGAAAGAAGGGGAGAG GAAAAAGGAAAAAGAAAAAGTTGGGGGAAAAGAGAAGGAGAA GAAGAAGGAGACAGCCGGAGAAGGAAGGAAGAGAAAAGGGGA G G G GAACCGGACAAAACCCCCCGGCCCCGGCCAAGGAAGGGA

GACCAGGAAGAAAAAGGGGGAAAGAGGGAAGGGGAAACAGBA AAAA $A \operatorname{A} A A \operatorname{A} G C C G A A A A A G G A A A A G G C A A G G G G G G G G A A A A A$
 AAGGAAAACCAAAAGGAGAGGAAGAGAAAGAAAGAACAAAGG G G G GAGACCGGGGGAGGGAGCCAGGGGGAAGAGAACATAAGA G G G A C C G A G G G A G A A G G G G G T A G G A A A A G G CAA A A G A G C A G G A G G A G A G G A A A A G G G G T T G A G G A C G A A G C A A G A G G G G G A C G G GAAGGAAAAGAGGGGAAGGGAAGGAAGGAAACGGAAAAAAAA G G A A G A G G A A A A G G A A A A A A G G G G G G G G A A A G A A G A G G C C G G GAGGAAGGGAGGAGGAGGAGGGAGAGAACGCCGGGGAGGGGA GAAAGGGGACAAGAGGGGAAGAGAGGGGAAATCCAAAAAGAG AAAGCACGGGGGGGAAAGAAGGAAAGAAGGGAGGAAGAAGAA $G G C C G A A G G A G A G A G A G A G A A G A C A G A A G A G G G A C A A A A A C C$ G GAGAGAAGGGGAAAAGAAAAGGGCAAGAGAACACCAAAGGG AGAAAGGGGGAGAGGGAAAGAAAAGAAGAGGAGGAGAAGGGA A GAA $A \operatorname{GA} A A G G A A G C A G G A G G A G G T A A G A C A G C C A A G G A G A A$ A A A GAA A G G GAAGGGGAAAACCAGGACCAGCAAGAAAGAAGA G G A A A A A A G GACAA A A G GAAAGGAGAGGAAGAAACCTTGGGG AAAAGACCAGAAGGGAAAGAACACAGAGAGCCAAGGGCAAAA A A A A G GAA A A A G G GAA $A \operatorname{AGGGAAAGGGAAGGAAAAAAGGAGAA}$ A A A GAA A A A A G G GAGGGGGGGGAAAGGACCGCGGACAAAAAA C CAA $A \operatorname{ACCA} A A A G G G G C C A G A A A C A A G G A A A G G G G G G A A A A A$
 ACAGGGGAGGCCAAGGGAACAGAAAAGGAAACAAAAGGCCAG A G T T G A C C GAGAGGAAGGGAGGAGGACCAGGAGGAAGGCGCC
 GAGGCAGGAGAAGAAGGGCCAAGAAAGGGACCGAAGCAAAAAA A A G G G A G G G G G A A G G G A A G A A G G A G G A A G A A C G G G G G A G G G G
 AACCGGGGCCGGAGAAAAGGAGAGGGGGAGAAAAGGCCAGAA A G G G A A A A A G G A G G A A A A A C A A G G G G G G G G A A A G A C G G C C A G A G G GAA A A A A A A G G GAAGGGGAACAGAAGGCAGAAACA GAGG AAACAGGGGGAAGGGGAAAACCGAAAGAAAGGGGCAAAAA GA A G GA $\operatorname{A} A \subset A G A A G G A C C A G G G C C G G G G A G G C G A C G G G A C A A G G$
 G G G G A A A A G G G G A A G G G GAAAAAGCCGGAAAAGGGGA GAAA G GAGGAGGGAGGGAAAAGAAAGGCAAGGGCCGGGGAACAGAAA A A G GAAGGAAGGAAGGACGGCCAAAAGGGGCCCACCAAAAAA A ACCGGCCCCGGAAGGAGAGGGAAAAGGAAGGGAAGGAAAAA G GAAACCCAGGGGAAAAAAGAAGGGGAAGAAACCAAGGAGAA AAAAGGGGAACAAAGGAGAAGAGAAAGGATAAAAGAAAGAGG
 G G G G G G G G G GAAAACCCAACAGAAGGACAAGAGGAGCCAC G G CA $\operatorname{A} A A A G G A G A A A A A G A G G G A A A A G G G C G A A G G A A A C C A G G G$ G G G G A A G G G G G G A G G G C C G G C C G A A G G G G G A G G G A A G G G G A G CAAGGAAACCGGGGAGAAAAAGGACCGGAAAGAGAAGGGGGG A G GAAAAAAAGGGGGGAATTAGGAAAAAAAGAAAGAAAAGAG A A A A G A GAAAA AAACAAGAAGGAAGAAGAAAGAGAGAA GAAA A G G G G GAAAAAAAGGAGAAGGAAAGAGGGGGGGGAAAAAGAA GAACGAACAGGAGAGGGGGGGGGGAAGGCAAACCAAACAACC A GACGGAAGGAAACAGGAGGAAGGGAGGAACCGAACCAAGAG A A GAACGGGGGGAGAAAGGGGAAGAGAGAAAAGAGAAAGGAA A GCCCAAATAGGAAGGGGCCCCAAAAGGAGAAAGGGGACCGG A AACAGACAAGGAAAGAGGGAGAGACCCCCACAAGGA
GAAGGGAGGCCAAGGGGAAGGAAAGAAGGAAGGAAGGGGGG
 A A A G A A G G G G A G A A GAGGGGGGAAACGGAAAAAAAAA GAAAAA A A A A G G G G A A A A A G G GACAAGGAAAAGGGGAA GAA GA G GA G G AA GAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCGGAAGG

AAGGGGAAAACCGGAAGGGGTTAAAAGGCCAAAAAACCCCGG
 G G G G A A G G A A A A A A A A A A A GAGGAGGGGGAGAGGBAGACC G GAAACCGGAGGAAGAAAAGGGGGGGGGGAGCAGAGAAGAACC G GAGGAAGGGACAAAAAGCAAAACGGAAGGGGAAGGCCAAGA
 A A G G G G G G A A A A G G G G A A A CAAAC G GAAAAGAAAAAAAGACC GGGAGGGGTTAGCCGGAAAGAGGAGAGGAAACCAGAAAAAAG A GAGAAAAGGAGGAGGCCGGAAACGGAACAGAGGAAAGACAA AAAAAAAAGGAAGAGGAGAAAAGGGAAGAAAGCCAAGGGAGG AAAGGGAGAAAAGGAGGGCAGAAGCCGAAAAAGAAAGAAAAA $G G C C A A A G G G A A G A A A G A A G G A G A A G G G C A A G A A G G A A C A A A$ A GACGGGGGAAGACGGAGAAAAGAGAAGCCAAAGCAAAGGAA A A CA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GAAAAAAAGGGAGGATGGAGACCCAGGGAAGAGA CAGAGAAGGGGAAGGGGGAGAAGAGAAAAAAACCGGAAGGGG AA $A G G A C A A G A A G A A A G G A C A A G G A G A G A G G A G G A A A G G G G A$ C C C C A C C C G G A A C A GAA A A GAAAAAACGGGGGTTGGCCAACAC G GCCAAAAAAGGGGAAGGGGGGAGAAGGAAAAAGGAAGGGGA G G G G G G A A GAAAAGGGAGGGAAGAGAAAGGAGAAAAAGTXAA $C \subset G A C A A A G G A C A A A G A A A G A G G G A A G G A G G G C C G G C C A A G G$ $C \subset A G A G G G G G G G G G G G A A A A A A G G A A A A C A T A A G A A G A G G A G$ GAGGAAAAGGGAAAGGAAGGCCGGCCAAAGAAGAAGGGAAAA A GACGGAAGGGGGGAAAAAAGGCCGGGGGAGGGGAACCAGAG C C A A G A A C A G T T G G A A A G G G G A C C C A G G G GCCCCAAC CA G G G A A C G A G A A A A G GAA $A \operatorname{GGGGAAGCAAGAAAGAATCCGGAAGGAA}$ A A A A A A G G G G G G G GCCAAGGGGCCAGAGAAAAGAGGGACACA C CAAAA AACCAAGGGGAAGGCCAAAAGAAAACGGAGGGAAAA A A G G G G G G G G A A G A G G G G A A C A A A A A CA A G G GAGGGCA GA G A GAGAGAAGGAGAGGAGAACAAAGGCCAAAAACAAGGGGCACB A GAAGAGGAAGGGGAAGAGGAGAAGGGGAGGGAGGGAAAAGA G GAA $\operatorname{G} A \mathrm{~A} G A C C A A A A G G G A T A G A C A A A G A A A A C C C C G A A A A A$ AAACAAGGCCAAGGCCCCGGAGAACCAACCACAGAGAAGGGG A A G A G G A G A G G G G G G G G G G G A G T T G A G G G G A A A G C C A G A G A A $G G A G C C A A A A G G G G A A A G G A A A G G G G G G A A G G A A G G G A G G C A$ G G G G A A A A G G A A A A $\mathcal{A} G G G A A A A G G G G G G G A G G C A A A G G G G G A$ C C G GCCGGAAAACACCCCGGGGGGAAGCAGAGGGAAAAGGGG G GAGAGGGGGAAAAAAAAGAGGAAAGAAAGGGGGGGAAABAA AA $A G A C A A A A G G G G A A G G A A G G G G G G A A C C G G A A A G A G A A G B$ A A A A C C C C G G A A T T G G A G G A A G A A A GAGAGAAAA G GAA G GAA
 A GAA $A \operatorname{GA} \mathrm{~A} G \mathrm{G} A A A G G A A G G G A G G C C A A A G G G A A G G A G G G C C G G$ G GCACCAGAGAAGGACAGAACCAAGAGGAAAAGAACGAAAAG GAGGAAGGGGAAGGCCAGCCGGACAAAGAGAAGGACGGAGAA
 G G G G G G A A A A A C GA $A \operatorname{GAA} A G G G G A A A A G G A A A G G A C C G G A G G G$ A GAACCAAAAGGGGGCAGAAAAAAGAGGCCAAGGGGGGGGGG A A A G G A C C A G G A A C G G G G T T A A A GAC G G G GAA G G A A A G C C A A G G G GACAGAGAAACAAAAGGGAGGAAGAGGCAGAAGGGAGAA GAAACCAAAAGGAAAAGGGGAAAAAAAAGGACGAAGAGAGAG $G G C C G A C C A A C C G G A A A A A A G G G G G G G A A G G A C C G G A A G G A A$ A A G G G G A A G G A A C C G G A G G G G G G G G GCCCAGGAACCAA A A A G A A A T G G GCGGGGGGAAAAAAAGCCAGGGAAGGAACAAAAAAA A G A G A G A A G A A A G GAACCAGGGACAAGGAAAAAAAAAAAACC G G G G G GAGGGGAGGAAGGGGAAGGCCAAGGGGAAGGAAAAAA A A A A A ACCAAA A GAAAAGAACAAGGGGGGGAAAAAGAAACAA A G G G A G A C G G G G G A G G A A A C G G A G A G A G C C A A A A C C A G G A G G G G A A A A A A C G G G G G CA $A \operatorname{GGGGGACGACAACCAAGGGGGGAGAG}$ A GAC G GCAGAGAAGGAGAAGAAAGAGGGACTTAAAAGAAAAA AAGGAGGGAAAAAAAAAAAAGGGGGACCGGAAGAGGGGAGAA

G G G GCAACAAGGGGGGAGAGGGGAAAGAGAAGAAAGGGAAGG $G G A A A A A A G G C C A C G A G G G A C C G G G A G A A G A G A G G A G A A A A A$ $G G A A G G A A A A A A G G G G G G A G G G A C G A A C A G G A G G C C G G A A A A$ A GAGCCCCAGAGGGAACCGGAGAAAGGGAAAGACGAAAAAGG $G G C C A A G G A A G G A A A A A A A A A A G A G G G G A A A G A G A A A G C A A A$ A G GAA $A \operatorname{Gg} \operatorname{A} A A G G A A G A A A A C C A A G G G G A G A A G G G A G A G A A A$ G GAAAGGAAAGAGGAAGGAAGGGGGAAAAAAGGAGGGAGAAA AAAAGAGAAAACAACAAGGGGGGGGACAGGAGAGGGAAGGAG
 GAAGAAAAGGGGAAGAGGGGGGCCGGAAGAAGAGGAAAAAGG G G G GAGCAGGAAAAGAAAGGAAGGAAGGGGAAAAAGGAGAAA
 A G G G G A G A G A G A A A A A C C A G G G G G A C G G G G G G G G G A A G A A G A G G C C A G G G A A G GC C G G CAAAAA A A G G GAAA A G G G GA GA GAA A G GCCGGGGAAGAGGGGAAAGGGAGAAAAGGGGGAGGAAGAAG CAAAAAAAGAGGGAGGAACAGGGGCCGGAAGGGAGAGAAAAA G G A A A A A A G G G A G GAAA A CA $A \operatorname{AGGGGGAAAAAAAAAAGAAAGG}$ AACCGGGAAGAGAAAGAACAGGCAGAAAGGAAAAAAGGCCAA GAAGGGCCAAGGGGGAAAGACCAGGAAGAAGGGGGGGGAAAA A A A G G A A A A A A A G G A A G G G G A A A A A A A A A A A A G G G G C A A G G G A G G GAAAAGGAGGGAAAAACGGCCAAAAGGAAGGAAAGAAAG GAAAAGCAACCAAAAAGGGGGGAGCAGAAGAAGAAAGAGACC A A G G G GAGCCGGAACCGGAGCCAACCGGGGAGGGAAAGGGGG A A A G A A G A G G G G G G A A A A $\mathcal{A} G G G C A A A G G G G A G A A G G G A A A A A$ G G A A G A G A GATTGGGGAAGGAAGAGGAAGAGAGAAACCAAAG
 A GAGGAGGACGAACAGAGCCGGACAAAGCCAGGAAAAGAAGA G G G G G G A T G G A A C C G G G G G G C C A A A A C C A G G A C C G G G G G G A A G G G G A A G A G G A A G G G G A C G A A GAGAC G G G G A A G G G GAC G G A G GAAGGACCAAAGAGAAAAGGAAGGAACCAACAGAAACCAA GA G G G G G G A G A C G GAAAAAAAAAGGAGAAGGGGGGGAGAAAAA G G AAGGAGGGAGGAGGCAAAGGGGGGGAAGCCAAGACCCCGGGA AAAA $A \operatorname{Ag} \operatorname{A} A \mathrm{GA} A \mathrm{~A} A A A A A G A A A A A A G G G A G G A G A G G G G G A G A A$ A A A G A A G G A GAC $\mathcal{A} G G A A G G A G A G A G G G G G G A G A C B A G G G G C C$ A A G G C C G G A G A A G G A C G A G G A C A C G G G G G A G G G G A A A A G G G G G GAACCAGAAAAGGGGAGAAGGAGAGGAAAGAACACAAAACC G GAGGGGGGGAGGGGGGGAAGGGGGGCCCCAAAAAAGGAGAA ACAGAAGGAGGGAGCCAAAAAAGAGGAAAAAAAAAAGGBGAC GAAAGACAAGAAGGGGGAGGAAGAAAAAAGAGGGGGGGGGGG
 AA GAAACAACGAAGAGACAGAAAGAAACAGAAAGGGAGGGCC GAGGGGAGAGGAGGAGAAAGAGAAAGGAGGAAAAGGGAGGAA CAAGGGGGGGGGGGGGGGGGGGAAGGGGAGGGGGAACCAAGA A A A A T A G G A G T T A A G G A A G G A A A A A A G G G G G G G G G G G G G G G G G G G A A G A G A G A A A G A G G G G A G G G G A A A A A G C A C A G A A A A A C C ACGAAAGGAAACGGAAAAAGCCAGAAGAGAAGAAAGGACCAA AAAAGGAACAGGCCAAAAAAAGAAAAGAAGAAACAAGAAAAC GAGGGAAAGGGGAAGAAAAAGGAAGGAGAGAGGGCAAAGACC GACACAACGAGGGGAGAGGAGGCAGCGGGGGGAGCAGGAGAA G G G G A A G G A A G A G A G A G G G A A A G A A A G G G G C C G G G G A C G G G G G G G G G G G G A A A A C C G G A A A A A A G G G G A A A A A A G G G G A A A A G G A A A A A A A A A A A A A A GGCCCCAAGGGGAAAAAAGGAAAAAA GG A A A A G GAAAAA A G GAAAAGGAAAAGGAACAGGCCGGGGGGTT A GAAAAAGGGGAGAAGAAGGGGAAGGGGGGAACAGGA
C G G G G A A G G A A A A A A A G G G G G G G G A GAGAA $A$ A A A A A C C G G A G GACCCCGAGGAAAAAGAACAAGGGGAAGAAAAGGGGGGGGGG G GAGGGAGAGGGAAGGAAAAAGAGAAAGAGAGGAAGGGAAT T A A A G A A A A A A A A A A G G GAAGGACAGAAGGGCCGGAAAAAA G G AACAGAAGGGGGGAAAAAAAAAAAAGCCAAAGACAAGGACCA

A A A A G GAAAAGGAAGGAAGGGAGGAGGGGAACGAGAAGACAA A A G A A GAAAA $A$ A A G GAAAAGGGAGGGAAGAAGGAAGGCA GAAA T T G GAA $A \operatorname{GAAAAAGGAAAAGGAAAAAAAGGGGAACGAGAGAAC}$ G G G G G A A G G GAAAAAAAACCGGCCGGAAGGAAGGGGAAAAAA G G G G G GAA $A \operatorname{GCCA} A A A A A G A A G G G A G G C C A G A G G G G A A A A$
 GAGGAGGGAAAAGGGGAAACGACCGGAACAGGCCGGGGAAAA G G G GCAAAGGGGAAGGGACCAAGAGGCGGGAGAAGGAAGACC A A G G G G G G GAGAGGAAAAAGAAAAAAAAAAAACCCCGAGGGA C C G GCCCCAGAGAAGGAGACAGGAAGGGAAGGAGAAAAAA G G $C \subset G G A A C C G G G G A A C C A A A A G G G G G G G G A A C C G G A G G G G G C C$ ACAGAGAGGAGAGGAAGGGGAAAAGGCCAAAAAAAAGAAAAA CC G GAAAGGGAAAAGGGGAGAGCCAGCCGGAGGGAGGGAAAA A G G G G A G A GAGGGGAAGGCCGGCCGACAAGAAGAGGAAACAA G GACGAGGGGGAAAAAAGGGGGAAGCAGAACCAGGGAGGGCC AAAACCGGAAACCAAGAAAGGACAGGGGGGACAAGAAAACAG GAAAGGCCGGCCAACCGGCAGGAGGGAAGGAAAACCAAAAGG GAAACAGGGGAACAAACCCCGGGAAGGGAGGGGGGAGAGGAA $A C G A G A G G G A A G G G A A G G A A A A A A G G G G A G A A A A G G G G A A B A$ $A G C A G G G A G A A G A G A A A G G G C A G A G G A A A A G G A G G G G G A A A A$ CAAAGGGGAAAAGGAAGGAGGGACTAAAGGAGCCCCAAGAAA A A A A A G GAACACGGGGAGAAGGAAAAAGAAGGAGGAAGAAGG G GACCCAAAAAAGGAGCCGGGGCCGGAACCAAGGAAGAAAAA
 ACGAGGAACCAGAGAACAGGGAAGACAGAGGGGGGGGAACAG AAGAGAAAAAAGAGGGGGGGAACCGGAACCAAGGAAGAGAGG
 GAAGAAGGCCGGAGCCAAGGTTAGGAGGAGGAGACCGGGGGG G GAACAAGAGACGAGAAAGGGGCCAGAAACCAAAAAGGGGAA GAGGAACAAGGGGGGAAAAAAAGGGGAGGGGGGGGAGGAGAA AAAAAGAAAACCGGGGGGAGGAGAGGGAGAGGGGAAGAAGAG AAGGACGGGGCCGGAGAATAAAAAGGAAAGGGAGAGAAAAAA G G GAAAAGGGGAAAGGGGAACCAAGAGGAGGAAAGGAGAGAG AA $A \operatorname{GA} A \mathrm{G} A \mathrm{G} G A C A A G A G G A A A A G G A A A A A G C A G G A A G G G G G G$ GAAAGGAAGGAGGATTCCGGTTAGCCCAGGCGGAAGGAGAAA C C A A A A A A G G GAGAGGGCAAAAGGAAGGAGAGGAAACAAGGG
 A A A A C CAGGGAAAAAAGGAAAAGGGAGAGGGAACAACACCCC G GAA $A \operatorname{GAA} \mathrm{~A}$ GAAAACCAAGGAAGAGGGGAAGGTTAAAACCTT
 G GAAAAGGCCGGAAAAAACCCCAACCGGGGAAAAAAAGAGAA
 C C G G G A G G GAGGAAAAGGAGCAAAGGCAAGGACCCCGAAGAG ACAGAGACAAGACCAACCGGGGAACGAGAACCAAGGGGGGCC A G G GCAGGAAAACAGGGGAAAAAAGGAAAAAGAA GAAGGGAG A CAA $A \subset G G A G A G A C A A G G G G C A A A G G C C A A A A G G A A G A A A G G$ A A G G G G C A G G A A G G G G G G C C A A A $\mathcal{A} G G G G G G T T G G G G A G G G G G$ G G GAAAGGAAAAGGAGGGACCCAAAGAAAAGGAGCAGAGGAG A GAAAACAGAGGAAAGGGGGAAAAGGAAGACCCCGACAAAAAA AAACGAAGAAGGAACCAAAGAGGGGGCCGGACCAGAAACAGC GAAAACGAAGCCGGCCAAAGGGAAGGGAGGAAGAGGGGGGCG AACAGGAGGACAAAAAAGGGAGCCGGAAAGGAAAAAAAGGAA $C \subset A C A A G A A A G A C C C G G G A G G A C A G G C C C A A G G A A G A A A G A A$ ACGAGGGGAAAGAAGGCAGGGGGAAAAAAAAAGGAGGACCCC GACGTAAAGGACGGAGGAAGGGAGGGAGGAGGAAAGAGAGAG G G G G A G A A A A C A G G GAGGGAAAAGGAGAGGGGGGGGAAAGAA CCGACAAGCAAGGGAAAAGAGGGGGGAAGGAAAGGAGGAGAA $G G A A A A A G G A G G G G G G G G G G A A G G A A G G T T A G G G C C G G A G A A$ $A A G A G G G G G A G G A T A A G G A A G G G A A G G G G G A C A A A G G B A A C A$

A A A G A A A A A A A A GAAA $A$ A $A \operatorname{AGGAAGGGAGAAAGGAAAAGGAAA}$ GAGAAAAGACGAAGAAGGAAGGAAGAAAGGAGCCAGGGGGCC AACGGAGGAAGGAAGGAAAACAAAAAGAAACCGAGGAGAGGG G GAAAGAGAGGGAAAGCCGACCAGGGGAGGAGAACCGGGGAA ACCGGGCCGGGGAAAAAACCGGAGAAAGGGCCAGCCAAAGCA AACCAGAAACAAGGAAAACCCACCGGAAGAGGAAAACCCCCC AA G G A A A A CAA A G GAGAAGGAGGAACGGGAGGCCAGAAAGGG AAGGACAAGGAGGGGAAGAAGGAGAGAGGAAGAAAAGAAAAA G G G A G G A G G A G G A G A A G G G G A G G G C A G G G A A A A $\mathcal{A} A G G A A G G G$ GAACGGGGGAAAGGACGAAGCAAGCAGAGGGGAGCCAGAGGG GAGGAGGAAACCGGACAGGAGGAGGGAAGGGGGAGAAAAAGA A GAGGGAAGGGGAAGGAAGGAAAAGGGAAGAAAAGGAACCCC G G G G G G G G G G A G A A A G G G A G G G G G A G G G C A A C G G C A C C A G G G $A C C G C C A G A C G A G A A C G G A G G G C A A A G G C C G A G G A G A G A A G A$ AAGGGGCCGGAAGGCAGACCAAGGGGCCGGAAGGAAGGAAAA GAAAAAAAGGAAGGGGCAAGAAGGAGAAGGGAAAAGAAGGGA

 $G G A A C A G A G A G A G G G G G G A G G G C C A A G G C C G G A A A A A G A C A A$
 G GAGAAGAAACAGGCCAAGGAAGGGGCCAAAAGATAGAAAAA A GAAAAAGAGGGGGGGAAAAAAGGGGAAAAGGGAAACAGGAG A A A G A A A G A A G G G GAA A GAAGGGAGGAAAGGAGGACGABAAG G G G A A C A G A A G G G C A A A A G G G GCCAGCCGGGGAGAAAA G G C C G G GAGAAGGACCAAGGGGAGAAAAAAAACCAGGAGAAGAAAA A A G G G G G G GAAGGGAAAACCGAAAGGGGGAAACAGACCAAGA AAAAGGGGAAGGAAGGGGCAAAAAGGAAGAAAAAAAAAAGAG GAAACCGGAGAGCCATGGAATTCCAAAAAGGGAAGGCAAGCC A GAA A G G G GAGAGGAAAAGGATGGGAGGAAGAGGGGAGAAAAA AAAGGGAAAAGGGGAGAAGGGGAACAACGAAGAGAAGGAGAA G G G G G G A A A A G GAAAAACAAAGGGAGAGGAGAGGGGGAAAAAA G GAGGGAAGGACCCGGGAAGAGAAAAGGGGGGGGCCAAAGAC $C \subset A A C C A A G G C A G G G A A G C C C C A G A A A A A A A A G A G G G G C A G G$ G G G G G A A G A A C C A G G C C C A A G G G G A A A A A A G G G A A A G G G G G G GAGGGAAAGGGAATGGCCGGAAAGCAAGAAAAAAGEAGCCGG A A G G A A A A G G A GAAGGCCCCGAACAGAAGGAGGGAAAAACAC A G T T T T G G A A A A A GAGGAGGGCAGAAGGGGAAAACCGAAAAA $C \subset G G A A G G A C A A G G A G A A G G A A A A A A A C G G A A C C A A G A A A A A$ AACGGGAAAGAAAAAAAGAGGGCCAAAGGGAACCGAAAGAGA GA $\operatorname{G} G A A A A G G C A A A A A A G A G A A G G G G G G A G A A A C G G A A A A A A$ AAAGAAAACCAAAGAGCCCAAAAAGGGGGGCCAAAGAGAAAG $G G A G A A G A G G A A G G A G G G A G A A G A G A G G G A G G A A A G G A G G A A$ G G G G G G G G A GAGAC G G G GAAAAAAAAAAAAAAAAAACA GAGGG G G GAA $A \operatorname{AAA} A A C G G G G G G A A A A A G A G G G G G A G G G A A A A G A G G$ A A A A G A G G G G G A C C G G A G G G C C A A A A A A G GAA G G A A A A G A G G G G G G G G G G G G G G A A A A $\mathcal{A} G A G G A A A G A G A G G G G G G C G A A A A G G$
 A GAGGGAGGGAAAAGAGAGGGGAGGAAAAAACAAGAGAAGAG A GCCAGAAGGAAAAAAGGTTAACCGGGGAAAAGGCCGGGGCA A A G A G A A A G G G A G G G G G G A A A A A A G G G G G A C C A G C C A A G G G A A G G G A A C A GAG GAAGAAAAGGGGCAAAAGGAGAGGAGAAAAG $G G A A A G G G A G C C G A A A A A A G A A A A G G A G G G A A A G A A G G A A G G$ G G G G A G A A G G A A G A G G A A G G G G G G A GAGGAGGAAAACCACAA AACCGGAAGGCCCCGGAAAAAACCAAGGAAAAAAGGG
G G GCCAAAAGGGGGGAAGGCCAAAAAAAACCGGAACAAGCC G G G G G G A A A A A A G G G G A A G G C C G G A A G G G GAAAAAAA G G G GAA A A G G A G G G G G A A G G A G G G G G A A G G A A G G A A G G G G A G A A G G A A A A G G G G A A A G G A A A A G T T G A A A A GAGCCGGGGAGGAAAAG GA AACAGGGGGAAACCGAAAAGGGAAAACAGGAAGACCAGAAAA

G GAAGGGGCCAGAACAAAAAACGGCCCACAGAGAGGGGAAGA
 GAA A A G GAAAAAAGGGAAAGATGGAGGGGGGGAAAAAGAAAA G GAAAACAGGAGCAAAGGGAAGGGCAGGGGAACAAAAAGAGG G GAAAAGGCCGGAGGGGGAAGGAAAACCAACAACAAGGAGAA AACA $A C G G G A G G G G A A A A G G G A G G A G C C G A G G A G A G A G A A G A$ AACCGGAAGAGGAAGAAAGGCCGGGAAAGGGGAACCACAGGG G GAAGGGGGGAAGGGGAAACAAGGGAAGACGGCCAGCCAGAG
 G GAAGGAAAAAAAAAAAAAAGGGGGGGGAAAAGAGACAAAAA
 C C C C G G G G A G G GCC $C G G G G G A A G G A A G G G A A A A G G A A A A A C G G$ C C G G G A A C G G G G G G C A A A G G G G C A A A G G A A G G G G G G G A A T G A A A G A A GC C G A A G G G GCGGGGGGCCGGCCGGGAGAAGAACCAG
 G GAGAAAAGAAAGGAAGCGAAGAAAAAAGGAGGGGAAAAAGA G G G A A A G G G GCCGGGAATAAGAAAAAGAAGAAACAGCA GA GA CAAAAAAGAGGGCAGAGGGAAAAGACGAGGAAGAAGACGCGG GAAACCGGGGACCAAAAGAAGCGCAAAGCAGGACCCGGAGGG A G G A A G A C A A G G G A GA $A \operatorname{G} C A A A A G G A A G G A G A G G G G A A A G G C C$ G GAGGGAAAAGACCGGGAAAGGGAGAGGCCGGGGGGCCAAAG C C G G G GAAA A A GAA A A G GACAGGGGAACAAGGGGAGAGAGAA GCAAGGGACCACGACCGGAAGAAAAGGGAGGAGGGGAAGGGG GAAACAAAGGGGAGAAAACCAAGAGACGGGAAAAGGGAAAA G CAAAA GAAAAGAACAAGAGAGCGGGAAAAAGGGGGGGGAAAC G G G G G GCC $C$ G G G G G A A A G G G G A A A G G G GAGGGGGGGAAAA G G G G GAA A A A G GAGGAACGGAGGGGGAGCAAACCAAGGAAAAAA
 AAGGACAGGAGGAGGGAAGAAAAGAAGGGGCCAAAAAAAGAA AGGGGAGAAAAGAAGAGGAGGAGAGGAAGGAAAGGAGAAAAA AACCCCGGAGAGGGAAAACCCCAAAGCCAAGGTTAAAAGAGA GACCAGGAGGAACAAAAAAAAAAAGGAAAAGGAAGGGGAAGG G GCCAAGGCCAAAAAAAAAAGGAACCGGAAAAAAGGCCGGGG G G G G G G G G G G A A G G G G A A A A G G C C G G G G A A G G A A G G G G A G G A G G G A A G G G A G G G G A G A A G C A G G G A G G A A A A C C G G A C A G A G G A GAAAGGGGAAGAGGAAAGACCCGGGGAAGAAGAAGGGGAGAC AACCGACCAGAAAGAAGACGGGCCGGGGGGAGAGGAGGAGGG G G G GCCGGAGAGGAAAAGGGCAGGGGAAAAAAGGAAGGGGGA A GAGGGAACCAAAAGAAAGAAGAGGGCCAAGGGGGGGGGGGG A GAGAAAAAAGGAGGAGGCCAAAGGGAGGAAGAAAAAAAAAA GGGGAAAACCCCAAGAAAAGAGAACCGAACAGAGGAAGAAAA GAGGGAGGAACAAAGACCAAACGGGAGAAGAGAGAGGGGGTA AAAGAAGAAGCAGGAGGGGGGGAGCAAGAATTAAAAGAACAG A G G G G A G G A A G A A G G G A C G A A A G G A A G G G G G G G G G G A C A G A C GA G G A A G G A A A G A A G G G A A A G G G G G G C A G A G A C A G G G G A A A $G$ $G G C C A A G G G G A G A A G G A A G A A G G G A C G G G G C C G G A A A A G G A A$ $G G A G A A C C A A A G A G G G C C G G A G G G G A G A A A A G$
 AAAGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGGAA C C G A G A A G G G G A G A G G A A C C A G A G G G A GAC G G G G C C G G G G G A
 CAAAGGAAGGAAAGCCAGAGCCGGAGGAGAAAAAGGGAGAAA C C A A C C G G C C A A A G A A G A A G G G A A A A A G G G G G A C G G C C G G A A G G G G G G G G A G G G G G G G G G G G G G A A G G G G C C G A A TA G GAA G A A G G GA $\operatorname{G} A \mathrm{~A} G \mathrm{G} A C \subset A G A A A A A A A G A A C C G G G G G A A G G A A G A A A$ A A A A A A A A A A A G G A A G A G G A G G G A G G CAA G C C A GA G G G G G A A AAAAGGAACCGAAAGAGAAAGGAAGGGGCCGACCAGGAAAAG GAGGAACCAGCAACCCAGGGAAGGAGTAGGAAGAAGTTGAA G AAGGAGGAAGAACCAAGGAAAAAACATTCCAGAGACAGGGAA

A A A GCAAGAAGGAAGACAAAAAGAAAAAAGAAGACCAGAAAA A G A A A GAA A G A A A G G G CAA A G G G GAC G GAGAGGACAAC G GAA AAAAACGACCGGCCGGCAGGGAAAAAGGAAAAAAAGGGGGGG G G GAGAGGGAAAGCGAGAGGAGGAAGCCGGGAAGAAAAAAAG G G G G GACAAGGAGAGGAGAGGACCAAAGCAGAGAAGAACAGAA GAGGAGAGCACCGGCGGGAGAAAGAAGGGGGGAAGGAAAAAA AAGGAACAAGAAGGAGCCAAGGAAAAGGCCGGTTGGGAAAAA G GAAAAAAAAAAAAAAGAGAGGAAAAAAGGCCAAAAGGAAAG GCGAAAGGGAAAACCCGGAGAAAAGACCAAAAAAGAAGCCAA $C \subset A A A G C C G G C A C A A A G G A A A A G G A A A C G G G G A A A A A A A A A A$
 AAGGGAAAGGGGGGACCAAAGGAACCGAAAAACCGGGAGGAA C C G G G A A A G G G GAAA $A$ AAGAGAAAGGGAAGGAAGGAAAA AAAC GAGGAAAGATAAGAAGGGGGAAAACCGAGACAAAACGAGAGB AAGGGAAGGAAACCGGAAAAGGGGCCGGAAAACCAAGGAAAA AAAAGGAGGAACGGGAGAAAACGGAAGGAAGAGGAAGGGGAA G GAGAAAAAAGGGGAAACGGAACCCAAGAAAAAAGGAAAAAA AACCGGCCCAAAAAAGGGAGGGAGGACCAAGGACAGAGGGGG CAAAAAGGAAAACCGAGGGGGAGGAAAAGGAAAAGAAAGGAA G G G G G A A A A GCCAAAAAAGGAAGGGGGGGAAAGGCCAAAGAG AAAAAACAGAAAGGGGAAAAACAGGGGGCCAAAGGACAAAAA G G GAGAAGAGTAAAGGAAGGGGGGAATTAGCAAAGGGAAAAA AAAGGGAAAAAAGAGAGGGGAAAGCAGGAAAAGGGGAGAAAA
 AACGAGCCGGCCAAGGCGCCGGAGCAAGAAGGCCGGACAAAA AAACCCAACCAAGAGGAGGAAGAACAAGAAAGAGGGAACAAA A G G G G G T TAA A GAGGGAAAAGGGAGGAAAAAAAAAACAAAAG GATAGAGGGAAAAGGGGGAAGGAGGGAGAAAGAGAAGGGGGG G G G G A GAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A A A A A A A A G G A C C G G C C A G G A G G A G$ G G GAGGGGAGGGGGGGACGGGGGGAAGGAAAAAAGGGGCCCC G G G G G G G G A A C C G G A G A C A A A A G A G G A G G G G G A G T A A G G G A A AGACCAAGAAAGAACCCAAGAGGGAACCAAGGGGGGAGAAAA GGCCGGAGAGAAAAAAAGGAAACCAAGGGGCCCCAAAAAAGG AAGAAGTTCAGAAGAGCCGGGGAAACGAAAAAGGCAAGAAAA
 G GAGAGCGGGGGAAGGAGAAAAGAGGAAGACCGAACCACAAA GAGAAAAAAGGCGAGAGAGGGGAAGGAACAGAACAAGAGGGA A G GAGAAGGGAGGGAAAAGGAAGGAGGAAGAAAAAAGGAGBA G G A A A A A A GAACGGAAGGAACCGGAGGGCAAAAAGGGGAGAA
 G G G G A A A A C CAAACGGCCGGGGGGCCACGAAAGGCCGAAAAG GAAGGGGAGACCAGCCGAGAAAACCACAGAGGAACCAAAA G G GAAGAAGGAAGAAGAAGAACGAAGGGAAGGGGGGGGAAACGG G GAACAGGGACCCAGGGACAGAAAACCCGGCCGAAGAAAGAG GAGAAAAAAAAAGGCAGGGGCCGGAAGGGAAAAAGGGAAGGG AAAGAACCCACCACGGAAGGAGGAAAGGGAGGAAGAAGAGAG
 $A A C C A A G G A A A A A A A A G G G G G G A A G G G G G G G G A A G G G G C C G G$ GAGGAAAGGGCAAAGGAAGGGGCCAAGGAAAAAACAAAAAAA C CAA $A \operatorname{GAA} A G A A G A A A A A C C G G G G A A C C A A G G G G G G C B G G A G$ A A A A G A G G GAA $A \operatorname{GAA} A C G A T A G T T A A G G G A A A G A A A C A C C A G$ GAGGGGAAGAAGAAAAAAAGGGAGGACCAAGGAAAAAAGGGG G G G G A A G G A A G GAAAAGGCCAAAAAGAGAGCCGGGGGAAAAG AAAAAGGATTAAAAAGCAAAAGAGAGGGAGGGAGAGAGAAAG GAGGAAGGCCAAACGAGAGAGAAGAGACGGCGAAAAGGAACA G GCATAGAGGGAAAGGCCGGAAGAGAGGGGAAAGAAGGACAA G G A A G G G G G G G G A A G G A A G G A G G G A G A A C C G A G G G A G G G G G G
 A G G GAAGAGAGAAAAAAAAAAACCGAGAGGAGAAGAGAAAAA

G G G G G G A A A A A A G A G G G G G G C C G G G G CA G GAAA A C C C C G G G G C C G GAAA $A$ AA A GAGGGAAGAAAAGGCCAAAAAAGAGGAAAAAG A A C C G GAA A G A A G G G GAACCGGAAGGAAGGCCGGCCAA G G G G A A T T G G G GAA $A \operatorname{AGG} \operatorname{G} A C A A A A G A G A G G G G G A A G A G A A G G G G G G$ A GAAAAAGAAGGAAGGCAGGGAGGAAAAAAAAGGGAGGAGAT

 A G G A G G G G A G G GAAAAAAGGGCAAGGGGGAGAAAAAAGGAGCC G G G G C C G G G G A A A A $\mathcal{A} A G G G G A A G G G A G G G G A A G G A A G A A A A A$ GGGGGGCGAAAAAAGAACGGCCAGAGAAAAGAAGGGAGACAA GAGAAAGGGGAAGGAAAAGGAAAAAAGAGGAAGGAAGAAAAA AAAGGGAGGAAGAGGAGAAAAAAAAAAAGGAGAGAGGAGAAA G GAGCAAGAGGAGGAACCCAGGGAGGGAGGGGGGAAAGAGAT A A A GACGGAGTTAAAGACCGTTGGGGAAGGAAGAAAAAAGAA G GAAGGGGGGAGAAGAAAGGACAAAAAAAGGGGAGGAAAAAG A T GAAAACGGGGAATTAGAAGGCCGGGGAAGGGGGCAGACAA G GAGAAAAGAAAGGAACCGGAAAAAGAAAAAAGGAGAAGACC A A A A G GAAAAGAGGAAAAGGAAAGAAGAACGGATGGGGAGAA AAGAAAGAGGAGGGGAAAAGGAAAGGGGAAGGCAAAAAAAAC AACCGGCCAAGGAAGGGACAAAAAGGACGGACAGCCAATAAG AAGGGGAAAGGGAAAGTTCCAAGGAAAAAAAAGGAAAAAGAA G G G GAA A GAAGGAAGGCCCCAAAGAGCCGGAATAAAGGGGAG GAACGGAGGGGGGGGGAGGGAAAAGGGGGGGGGGCCGA$G G A A$ A GAGAAGAGAGACAGGCCGGAGAAGAAAAGAAAAAAAAAGAC AACCAAGGAGGGCCCCGGAGAAAAAACAGAGGAGAAAAGGAA A A C C A A G G G G G GAA $A \operatorname{GT} T C \subset A A A A G G C C C C A A G G A A G G C C G G$ G G G GACCCAACCGGAAGGAAAGAAGGAAAAGGAAGGGGGGGG AAAA A GAAGGAACCGGGAGGCAGGAAAAGAGAGGGGAGCA GA G GAA A G G G CAAAAAAAGGGGAAAGGGGGGGGGGAGAAAAACAC GGCCGAAGAAGGGGAGAGCCGGCCAAAAGGGGCCGGAAAAAA A A G G A A G G C C G G G G G G G G A A A A G G A A G G G G A A A A A A C C C C A A $C \subset A A A A G G G G G G C C G G G G G G A A C C G G A A A A G G G G G G G G G G C C$ G G G GAAAACCAAAACCAAAAAAGGCCGGCCGAAAGGAAAACC G G A A G G A A G G G G A A A A G G A A A A A A A A C C G GAA $\mathcal{A} G G G G G G G G G$ $G G C C A A G G A A G G G G A A G G A A G G G G G G A C G G G G A A G A A A G G G G$ A A G G G G G G G G A A G G G G A A G G C C A A C C G G C CAA A GAA A G G G A A AA $A G G G G G G G C C G G A A A A C C A A G A G A G A C C A A A A A A G G G G C C$ $C C G G A A G G C C G G A A G G G G A A A A A A G G A A A A C C G G G G G G A G G G$
 A A G A A A G A A G G G A A G G A G G G G G C C T T A G A G G A G A G G G G A G G G AACCAAAAAGTAAAAAGGGGAACCCCCCCCGAGAGGCCAGAG A A A C A A $\mathcal{A} G G G A A A A A A G G G G G G G G G G G G C C G G G G G G A B A A C C$ ACGGAAGAAACCAAAAAGAAAAAAAAGGAAAAAAAAGAGGGA TA $A$ A $G$ GAA $A A G G A G G A A G A G G G G G G G A A C C G G C A A C A A A G G G$
 G G G A A C A G A G C A A G G G G G G GA $\operatorname{A} A A A G G A A G G G G G G A G G G A A G G$ GGCCCCGAGAGAGAAAAAGGAAACGGGGAAACAAGGA
AAAAAGGGAGAGGGAGAAACAAAAAAAGGGGAAGGAAAAGG C CAA A G G G G GCCGGGGGGAAAAGGGGAAGGAAAACCCAAGAA A GACAGGGAAGGGAGGAAGGGGACAAAAGGAGAAAAAAGGGG A A G G GAGGGGCCGGAAAAAAAAGGCCAAAAGGCAAAACGGGG G GAGGGAAAGAAAGAAGGAGACAGAAAGAAACAGAGGGACAA A GAGGGAAAAAACCGGAAGGAAGGGGAAAAGACAGGCABAAG $C \subset A A G A G G G A G G G G G G G G A A A A A A A A A A A A C C A G G G A A G G G G$ C GCCGAGGGGAACCATAAAAATGGGATTAAAAGGAAAACAGG GAGGGGGGGAGGAGAAGGAGAAAGAAAAGGAAGGCCGGGGGG A A A A G G G G G G G G G G C C A A G GA $A \operatorname{AGAAAGGGAGGAGGAACAAAA}$ C CAG G G G A A C G A G G G A A G A CAGAGAAGAGGAAAAGGCCAAA G GAAAAAAAGGAAAGGGGAAAGGCAGAAAGGGGGGGAAACC G $A$

A GCCAAAAGGGGAAAAAAGGGGAGAAAAAAGGGGGGGGAGAA A A A A G G G G G GAAGGCCAGACGGAGACAGGGCCAGGGAAGGAA $G G A A G G A A G G G G G G C C G A A G A G A G G G A A A G G A A A G A G A A G A A$ AAGGCCTTACACGAGAAGAAGGGGGAACAAAAGGATAAGGGG AAAGAGAAGAAAAGGAGAGAAGAAAGCAGAGGAGGACAGAAA A A A A A A G G A A A GAA A GAGCCGGGACCGGAGGAAAAAGACAAA GACCCCAAGAAAAAAAAAAAGGAAGGGGAAAGGGGGGGAGAA G GAGGGAGAGCCGGGGGGGAAGAGCGAAGGAAAAAAAGAAAA GAGGAAAAGAGGGGCAAAAAGGAAAAAGGAAAAAGGAAAGAG GAGGAAAGAAAAAAGAAGGGGCAAAGGAGAAGGAAAAAGGAG
 G G A A C C G G G G T T A A G G A A G G G A A A G G G G G G A A G G A G G G A A G G A GAGAAAGGGACGACCAAAGGAACCACAAGAACCCCAACCAG A A A A G G G G G A G G G G G G G G A A G G A A $\mathcal{A} A G A A A G G G G G G A A A A A G$ GAAGGGCCGGAGGAAGGGAGAGAGGGGGAAAGACAGGGAGAA G G GAAAAGAAAGAAATAGAGCAGAAGAAAAGGA GAGAAAGCC CAAACCAAAAGGGGCCAACCAAGGGAGGGGGGAAGGGGGGGG
 AGAAGGCCAAGGCCCCGGGGAAGGAAAAGGAAAAGAGGAACC A A A A A A A A A A CCGGAAGGGGGGAAGGAAGGGGAAAAAAGGCC $C \subset G G G G A A A A G G A G A A G G G G A G G G G G C C A G A A G A A G A G A G A G$ AAGGGGCAACATGGCCCCGGGACCAACAGACAGGGGGAAAAA
 CAAACCAGGGGGGGGGGAAGGAGGGGACGGAAGAGACCGGGG A GCCGGAAAAGGGGGGTTGAAGGAGGAGAAAGGAGAACAAAA AAAAGGAAGGAACAAAAAGGCCGCGCAGAAAGGACAAAGAAG AAGGGGAAAAAAAGAACCGGAAAGCCCCAAGAAGACGAAAAA G G GAAACACAGGGAGGCAGGGAAGGAAAAAAAAAGAAGGCBA $C \subset G G A G C C G G C C G G A A G G A C G A G G A G C C G G G G G G G A A A A G C A$ AAAGGAAGAAAGACGAAAAAGGAGCACCACGGCCACCCAGCA A G G A A A A A G G T T G A G G G G C C G G C A A A G G G A A A G A A A A G A G G A CAGAAAAAGGAAAGAGATAGAAAAGGCCAAAGAAAAGAG GAA GAGGAAGGAAAAAAGGAAAGGGGGCCGGGGAAAAAGAGAGAA AAGGAAGAAGAGAGGAGACCACAACAAGGGAAGAAAAAAGAG GAAGAAAAGAAACAGGGAAAAAAAAGGAGACAAAAAGAAAAA GAAGGAAAGAAAGGGGAGGGAAGGAAGGAAGGGGAAGGAAAAA ACAGAAGGGACCCCGGGGAAAGAAAACAAAGGAGCCGAGGGG A GAGTTGGACGGAGGAGGAAAGAAAAAACGGGAAAAAAAACAA AAAGCCCCGGAAGGGGCCGGGAAGCCGGAAGAGGGGAAAAGG AA G GCCAAAGAAAGAGCAAAAGGGAAAAAAGGAAGGGAAAGG AAACGGGGGGAGCCCAGGAGGGAAAGACGAGGACGAAAAAAA
 $C \subset G G G A A G G G G G A A A A G G T A A G G A A A G A A G A A C A A A A G A G G G$
 G G G G G G G G A A G GAAA A C CA A G G C A G G G G G G A A A G G G C C G A C A A A A A A GAAGGGAGAGGAAAAAAAGTTAAGGACGAGAGAAAAA A GAAAAGGAAACAAAAAAAAGGGGGGCCGAGGCCTTCCAGAA AAA A A A A A A A G GAA A GAGAAAAGGGAAGGAGAA G GAA GA GAA G G G GCA $\mathrm{C} G \mathrm{G} G A A G G A A C C A G A A A A C C G A A A G G G A A G A A G G G G$ $G G C C A A A G A A G G G A A C G G A G A A A G G G A G C A G A A G A A G G A A A A$ A A G G G G G G G G A A G A CAGAAGGGAACC GAAGGAAGAGAAAGAC CACCGAAGAGAGAGGGAACCGGAGGGAAAGAAAGGGGGAGAA G GCCAAGAACAACCAGAAGGAAGAGGAAGACCGGAAGAAGCA AACGCAGAGGACGGAGGAGGAGTAGGAAGAGGAACCAAGGAA A A G G G G TAGGAGGAGGAAGGGGAAAGCCAAGGGGAGAAAAAC A GAGGAAAGACAAAAACCGGGGAAGGTTAAACACAAGGGGCC A A A A G G G G G G G GAAAAA A T TAAAGAAGAAAGGGAGGACAAAAA $G G A A A A A A C C G G C A A A G G A A A A A A A G G A G G A A A G A A G G A G A G$ $A G A G G G G A A G G A A G G A G G C C A G A A G A G G G G A G A A G A G G A A G G$

GAAAGGGGGGAGAGGAAGAAGGGGAGAGAAGGAAAAAAAGAG $A G A A A A A A G G G G G G G G A G G G G A A A A A A G G G A A A G A G G G A G A T$ G G G A A A G G G G G GAA A GCAGAAAGAAAGGACAATAGGAGACAA GAAGCAACGGAAAAATGAGAGAATTAACAAAAAAGGGGAAGA A G GAGGGGGGGACGGGTACCAAAAAAGGAACCGGGGCAGAAG G GAA A ACAGAGGGACCGAAAGGCCAAGGGAAAGGGGAGAAGB A GAACCAAAAGACAGGGGAAAAGAGAAAAGAGGGGAAACCBG G G G G G G A A A A G GAA A C A A $\mathcal{A} G G G G G G G G G A A A A G G G G A A A A G G$ A A A A G G G G G G G GAA $A \operatorname{G} \operatorname{A} A \mathrm{~A} G \mathrm{G} A A C C A A G G G G C A A A G G T T A A A G$ $C \subset G A C C A A A A A A A A A A G G G A A A G G G G A A A A A A A A C C A G A G G G$ G GAAAGAGGGAGCAAAGGAATAGAGGCAAGAGCAAAGAATAA C CAGCCGAGGAAAAAAGGAAGGGAAAGGAAAAGGAAGAGGAA $A G C C A A G G A A G G G G A G G C A A G G A A G A C C A G A G G G A A A C G G G G$ A A A A C C G G G G A GAA A A $A \operatorname{AGGGGGAAAAGGGAGGGGAAGGAGGG}$ A GAGGGAGAAGGTAAAAGGAGGAGCAAGACAAGGGGCCBGAT A GAGGGAAAGAGAACCGAACAAAAAGAAAAACCCAAAGTATT GAGAAAAGCAGACAAGGAAGAGAGCACAGAAAGAAGAGAGAG G GAGAAAGGAAGGAAAAACCAAAAGGGAGGAAGGCCGAAAAA $A G A G G G A A C C G G A A A A C C A A G G G G G G A A G G A A G G G G G G A G A A$ G G G GCCAAGGTTGGAAAAAAAACCAAAAAAGGAAGEAAAACC AAAACAAGGGGGAGAAAAAGGAAACCAACCGGTTAAAAAGCC G GAAAAAAGGGACCAAAAGGGGGGAAAAAAAGAGAAGGAGAA G G G A A G G G A C G GA GAAAGGAGGCCACACGACATTGEAAAGAA GAAGCAGAAGCAAGAGAACCGGGGGGAGAGAGAAGGGGAAAA A A C C C A G G A A G G G G A A G G G G G G A A A A A A A A G G G G G G G A A C A A GAGGGGCCAAGAAGAACCAAAAACAAGGCCGGCCAAGAAAGA A GCCAGGGGGGAGGAAAAGGCCGGAAGGGGGGAGAAGGAAGA C GAAGGGGAAGGAGCCAGAAAACCAAAAAACCGGCCGGAAAA G G A A A A A A A G G GAGAGAGCCGGGGAAAAAAGAGAAAAAGGAG CAAAGAAGCCAGGGAAGGAAGGGGGGAAGGCCAGAGCGAAGA GAGGAAGGAAGAGGCCGGGGGCGGGACGAAAGAGAGAAGAAA G G G GAGGGGCAGGGAGAAGGAAGAGAACAAAAAGGGCCGGGG AAGGAACAATGAAAAACCGGGAAAAAGAGAGGCAAAAA GAAA GAAAAACCCAAACAAAAGAAGGAAAAGGAACCCCAAGGAAAA G GCCAAAGGACAACAGAAGGCCGGAAAAAAGGCCAAAAGGAC A G A A A A A A A GCC G GCCAAAAGGACAGAAAAGGAAGGGGBGAA G G G GAA $\operatorname{A} G C C A A G G A A G G A A A A A A A A A A C C A A G G A A G G C C G G$ G GAAAAGGCCGGGGAAGGAAAAGGAAAAGGGGGGCCCCACAA
 C C C C G GCCGGAAAAAACCAAAAGGAAAAGGAAAAAAAAGGAA G G G G T T A A A A A A G G G G G A G GA G G A A A G G G G A A G G C C A G G A G A G G G G G G G G A A C C G G A A A C G G C C G G A A G G A A G GCC G GAA G G A A ACGGGAAAGGAGAGAGGGGAAAGGACGGAGAAGGAAAAAAAA A A A A G G G G T T A A A A A A A A G G G G G G A A A A A A A A T T GAAACC G G A A G A A A A A A A G G G GAGACCCGGTTAGAAAAAAAAGGGGCCAA
 A A GAA A A A GAGGAAGGAAAAGGGGAAGGAATTGGAAA
AAAGGAAGACCGGAGAAGAAGAAGGGGAACCGGAGGAGCGA AGCCGAAGCCAACCGAAGGGCAGGGGAACACAGAGGGAAAGG
 G GAACAAGAAAAAAAGACAAGGCCAAAAAGCCGGAAAATTGG G G G GAA A GAAGAGGCCGACAACAAGGAGAAGGAGAACCAAT T A A A A A CA $\operatorname{CAAAGGAAAAAGAACAAAAAGAGGAGAGGGGGCAGG}$ G G GAGGGGGGAAAACCGGAAAAGAAGGGGGAAGAGAAAAGAA G GCCCAAGAGAGAACACCGGGGACAGGAAGAGGAGGGGAGAA
 G G G GCCAAGGGAGGGGAACGCCAAAGAGAGGGAAGAAAAGAA G G A G C C G G A A G G A G G G A G A G C C A A G G G G G G G A G A A G G G G G G G GAGGAACCGGGGAAGAAGGGAAAAAACCAAAAAAGGAAAAGG

AAGGAGACGGGGCCAAGGAAGAGGAGAAGGGGAAAGAAAAAA G G G G G G A A A A G G G G C C G G G G C A G G G G A A G G G G G G G A A A C C C C CAAAAA $A$ A A GAGACAAAAAAAAAAGGAATAAATTCCAACCGG G G G GAA AGCCGGAACGAGAAGGGGAAAAAGAGAAGAAAGGCC
 A A G GAA $A \operatorname{GA} A G G A G A A A A A G A A A G G G G G G G G G A C T T G A A G A G$ G GAGGGAAGGGAAAACAGGGCGCCGGAACCAGAAGAAAAAGG A A A A A A A A A A A ACCAAAAAAAAGGAATTCCAAGGAACCAACC G G G G A A G G C C G G G A A G G G C C A A G G G G A A A A A A G A GA GAAA C C T T GAAAGGAAAGAGAGGGAGAGGGAAAGAAACAAAAAGGAGG G GCCACAAAAGGAGAAAAAGAGAACAAACACAAGAAAAAAAA
 GAAAAAGGGGGAAGAACCAAGGGAACGGGGAGACGGCCGGGG G G G G A GCC G G C C G A A C G G G A G G G GACAGGGAGGGAACCAAA G C CAAA $A \operatorname{GCA} A A A G G A A A A A G A C G A G G G G A A A A A C G G A G A G G A$
 GAGGGAAGAAGGCCGGAGAGGGAGAACCGAGGAGBAGAGGCC G G G GCA $\mathrm{C} G \mathrm{G} G A A C A A G G A A A A A G G G G A G A A G A A C C C C C G B A A$ C A A A A A A G G GAA A A G GAGAAGGAAGGAGAGGAGGAACCA G GA C CAGAGGGGAGAAGAGAAAAGGAAAAGGGGAAAAAAAGGGGG G GCCAAGGAAGGGGGGGAAAGGAGAGGAAGAAGAGBAAAAAA AA $A \operatorname{Gg} \operatorname{GAA} A A A A A A A A A A C C \subset A A G G G G G A G G A G A G A A A A G G C C$ A A G G G G GAGGGGAAGAAAGGGGGGAAGGAGGGAAAAAGAA GA C C G A A A G A A A A A A G C CA $A \operatorname{GAAAAAGGGACGGAGGAAAAGAAGG}$ A A GACCAGGGGGAAGAGAGGGGACGAGAGGACAAGAAGAAAA
 AA $A \operatorname{GA} A G G G G A A G G G G G G A C G A G A A A A A G A A A A G A A A A C C A A$ AAAACAAAAAGGCCGAACACAAGAGAAGAAGGCCAAAACAAA A GAAGACCAGACGGAGGAGGGGAAGGGAAGCCAGAAGGAAGA AA $A G G G A G G G G A G A A A G G T T A G A A G A A G G A A A A G A A G A G G A A$ GAAGGGCCCCAGGAGAAGGAAAGGGGCAGGAACCBAAAAAAG AAGGAGGGAAGAGGAAGGAGAAGGAAGGAAAAAGAGAAAAGG $A G C C G A G A A G G A A A G G G G A A G G A A G G G A C A G G G G G G G G G G G G$ G G G G G G A A G G G G A A G G G GAAGGGGAAGGCCGGTTGAAAAAAA A A A A G G G G G GAA $A \operatorname{GGGA} A G A A G G A A A A G G G A A A A A A A A A C A G G$ A GAGAGGGAAAAAAAGAAAGGGGAGGGGGGAGAGCCGGCCCC A A A A A A G GAGAAAGCAAGGGGGGAAAAAAAAGAGGGGACCAG AAAAAGGGAAGGGGCCAAAAGGGAAAAAAAAAAAAAAACCBG A A $\mathcal{A} G A A G G G G G G G G G G G G A G A A G G G G G G C A G G C G G G G G C C A A$ AACCAAGGAAGGAAGAGGAAAAGGAACCGAAGCCAAAAAAGA AA $A$ A $G G A A A A A A A A G G A A G A A G G G G G G A G A G G G A A A G A A G G G$ GAGACCGGCCGAAGCCAGCCGGGGAGAAGGGGAAGGGAAAGG AAGGAACCAAAAAGAAGAAACCAAGAGAAGGGAAAAGGAACC A A A A A A G G GAGAG GAA A GAGGGAAACGGGAAAGGGGAAAAC G A GAGCCAAAAAAAAGGAGGGGAGGGGCAGGAAAGGGGAAAAA G G G G A A G G A G A GA G A A A A A A GAAA $A$ A G CA G GAAAA A G G G G G C C G G G G G GCCGGAAAAAACCAAAAGGAACCAAGGAAGAAAGGAA G G G GAACCGGCCCCGGGAAGGGGGGAAAAAACAAAAAGCAAA G GAGGGACGAGGAAGAAAGGAAGGGGGGAGAAAAA GGGGAGG GAAA $A \operatorname{AGGGGAA} G G A C A A G A G A A G G G G G G G G G G G G G A G G G G G G$ A A T TA A A GAGGGAACCAAGGGGAAACGGAAGAACAGAGAA GA A A A A A A A A G GAAGAAAAGAGGACCGGGGAAAGCAGAAAAA GA A G G G A G G A G G A A G G A A A A G A A A G G C C C C G G G G A A A A A A G A G A A GAGATAGAAAAAAAAAACAAGGGAGGGTTGACCAACCCCAC A A GAA A A G G G G G G G G G G GC CAAGGGGAAGGGAGGCCCAAAAA C CAGAAGGAAGGGGGAAAGGAGAAAGAGAGAGGGGAAAAAAG GACAGATACCAGAAACGGAAAACCGAAAAGCCCCCCAACCAG A GAAA $A$ A A A A $A \operatorname{A} G \mathrm{~A} G \mathrm{G} G A C A A A C G A G G A A G G G A G A G G A A G A A A$ $A G A C A G A A G G A G A A C C G G A A G A A A G G A A A A G A A G A A G A A G A A$

G GAAAGAAGGGGGAGAGAAGAAAAAAACACGAAGGGGGAGAA G G G GAA A G G GAGACAGAAAAGGAGGGAAAAGGAACAAAGGAG G G G GAAAAAGGGCCAAAAGGAAGGGAAAAAGGAAAAGGAAAA GAGAAAAGGGAGGGGGGGAAGGAAGGAAAAGAGGCCAAAGGG G G G GAAA $A$ A A $A \operatorname{A} A G G A A G G G G G A A G G G G G G G A A A A A G G A A G A$
 A G G A G A G G A G G G A G G G G G G A G A A T G A A G A C A A A G G G G G G G G G AACCAAGAAGCACCGGGGCCAGCCAAGGAGAGGGGGAAGAGA A GAGCCAACAACAGAAGGCGCCGGGAGAGACCCCAAGGGGGG AAAATTGGAAGGAAGGGGAAGGAAGGGAGGGGGGCCAAAAGA
 $A G C A G G G G G G G A G G A A G G G A A G A G G G G G G G A A A C G B A A G G A A$
 A A G GAGAAGGGAAGCAAAAAGGAAAAAGAAAGAAGGAACCTT A A T T G GAA A G GAGACAGGGAAAAAAAAGGGGGGGAGGGAAGAA A A G G A GAGAGGGGACAGAGAAGAAGGGGCCAGAACCGGGGTT AA $\mathrm{A} G \mathrm{G} G \mathrm{GA} A \mathrm{~A} A C \subset A A A A C C G G G G G G A A A A A A G G A A A G G A G G C C$ A A A A A GAAAAAAAAGGCCCAACCAAAAGGAAGGAAAGAGAA AAAAGGAAGGAAAGCACAGGGGAATTAACCGAACGGGACCAG GAGAAGGGGGCAGGAGCAAGGAAGCCAGAGGGGAAAACAGCC G G G GAGAGCAAGGGGAAGGGGGAGGAGGGAGAATGGGGAGGA A G GAA A G G G G A A G GAAAAGAAAAGAAAAGGGGCCCCAACAAA AA G GAACAAGAGGGAAGGGGAAAAAAAAGGAACCGGAAAACC C CAAACAGGGAAAAAAAAAAGGGAGAGCAGAGGGAAAAGGGG G GAA A GCAAAACGGGGGAAAAGGGAAAGAGGAGAAAAAGAG G G G G GA G G G G G A A GAAAGAAAAGGGGGAAAAAGGAA GGCCGG A A G GAA $A \operatorname{GAA} G G G C A G A A G G A A G G A T A A A A A G A G C C G G A G G G$ A A G G G G G A GAGAGAAACCAGAAAGGAGGAAAGGGGGAAAACC C C C A GCGGGAAGAGGGGGAAGGAGAGAGACGAAAAAGAAAGG A GAG $A \operatorname{GAG} \operatorname{A} A A G A G A A A G G C C G G G G A A C C G G G G A G C A G G A G G G$ AACCCCCAAAAGCAGAGGAAAAAGGAGGGGAAGGGAAAAGAG AA G GAAGAAAAAAAAGAGAGGGGGAAAGAAACAAGGAAGGGG ACGAAAGGCCGGAAGGAAAAAACCAAGGAGAAAAGAGAGGAG T TA $A \operatorname{GAAA} C A G A A A C C G A A A A C G A A A G G A G A A A A C C G G G G G A$ C C GAG GAGAAGGAAGAAACCCCGGAAGGGGGGAAGGGGAAGA CAAAAACCCCAAACGGAAAACCAACGGGGGAAGGGGGGABAAA C C A C A A GAA A G GCC G G T T G G G G G G G G G G A A A A G GAA G GA G A A GACAAAGACCGGAAGAAGGGGGAAGAAAGGGGGGGAGAAAAA A A A ACCAAGGACAACAAAAGAGCCAGAGCCAAGGAAAAAGAA AC GAGGGGAAGGCAAAAAAAAAAAAGAAAAGGGAGGAGCAAA GAACCGAGGGGGAAAGGGAAGGAGGGGGAAAAATAAGGAAGG A A G A A A $\mathcal{A} A G G G G G G G A A A A G A A C C G A G A G G G A G A G G A C A A A G$ G GAAAAGGGGGGGGAAAAGGGGAATTGGAAGAAAGGAAAAAG G G GAAA A A A A A GAAACCCAAAACCAAGGGGGAGGGGGGAGGG C C G G G G G G A A G A G G A A G GAAAA A GAAGGCCAACCAAGGAGAA G G A A C C G A A A G G G G CAAAGGCCAAGAACGGCCCCAAAAAAAG GAAGGGAACCGGTTCCGGCCAAGGGGGGAAAAGGGGG
A GAA A A GAA $A \operatorname{A} \operatorname{A} A A C \subset G G G G G G A G A A G G G G C A G G A G A G A A G G$ GAAGGAGAAGGAGGAGGGAAGGAAGAAGAAAAGGAAGAAAGA GAGAGGAAAAGGAAAAGGGAGAAGGGGGGAAAAAAAGAAGAG
 AAAGGATTGGAAGAAGGGGGAAGAAAAGACGGGGGGCCABAA A A A A A A A $\mathcal{A} G G A G G G G G G G A A G G C C G A G G G G A G G A G B A B A C A G$ AAATAGAAGGAGAAAAAAGGGGAAGGAAAAGGAAGAAGAC GA GGAGCCAAGGGACCGGAAAACCAGGAAGACCCAAGGGGAAAA A A A C A A G A A A A A G A G G A G G G G A G G G G A G G A A G A G G G C C G G G A G GCCAAGAAAAAGGGGAAGGGGCAAGAAAAACACAGAAAGAA A G G G A A G G G G A G G G G G G A A A A A $A G G G A G G G G A G A A G G G A A G A G$ GGAAGGCAGAGAAAGGAAGGAAAAGGCAAGAAAAGGACGGAG

GAGGAACCAAAAGGAAGGAAGGAAGGAGGGGGAGCCGGGGGG C CAGAAGGAACAAAAAAGAGAAGAAGGGAAAAAAAAGAAAAA $A A C C C C A G G G G G A T A G A A G G A G A A G G G G A A G G A G G G G G G G C C$ G GAGGGCAGGGGGGGGAAAGCCAGAAGACCAAGAAGAGAAGA AAAAGGAAGGAAAACCGGAAAAAGGGGGGGAGAAGGGAAAAG GGCCCCAGGACAGGGAAGGAGAGGACCAAGAGACGGAAGGGG G GAGGGAAGAGAGGGGAAAAAACCAAGGGGACGGAGGGAAAG C CAGAGAGGAACGGAATTAAAAGGGGGGCCGGAAGAAAGGGG G G G GAAAACCCCGAGGGAGGGAGGAGAGGGGAAACCAAGGGG $A C C C G G G A A A C C G G G A G G G G A C G G G G A A G G G G A G G A G A A C A A$ G G G GA $\operatorname{G} A \mathrm{~A} A C A A C C G G C A G A G G A G A A A C G G A G G G G G G G G G G G$ CACAC GAAAAAAAAGGGAGGAGGGAAGGACAAAAGBACACGG GAAGGAAGACCCAGGGAGAAAGGAGGAGGAAGCCAAGGGGGG A G G GAAAGCCAGGGGGAGAACCAAACGGACAAGAAGAAACGB A GAGAGAACCGGAGAGCCAGGGAGGGAAAAGGGGCCGGGGGA G G G GAAAGGGGGAC G GAAAAGAACCGGGGGGGGA$G G A A G G G G G$
 G G GAGAACGGAAGAACGAGAGAAAACAAGAGAGAGGAGAGGG C CAAGAAGAGAACCAAAAAGAAGGGAGAAAAGGGAAAGAGAA
 G GAAAGGGGGAAAACAAAGGGGGGGGCAGGGGTAAAGGGGGG A A G GCCAA $C$ G G G G G G GCCAGCAGGAAGGCAGGGAACCCGGGG G G G G A A A A A A A A G G A A A A G GAA A G G G G GAA $A \operatorname{AGAA} G G G G A A A A$ G G G A A A G G CAAAAAAAAGGGGAAGGGAAAGAAAGGGAAA GAAT $G G A A A A G G A G G A A G G A A C G G G G G G G G G G G G G G A A A A A A G G G G$ AAAAGGAAGGAAAGAGAGACAAGGCCAAGAAAGGAGAACAAA GAACGGAAGGGGCAAGAGCAGGAAGAAAAGAAAAGGCC GGAT $A C A G A G C A G G G G G A A A A A A A G G A G A G A A C G G A A A C C G G A G A G$ G GAGCAACAAAAACAAGAAGAAAGGCGGAAGGAAAAGGTACC A A A A C A A G A A A G A A GAAAGGAAAAAACGCCCCAACCAAGGCC
 $C \subset A G C A C A G G G G A A A A A A G A A G G G A C A A G G A G A G A A A A A G A A$ TAAAAAAACAAACGGGGAGACAAGAAAACCAAAAAAGGGGAG A A A GAA $A$ A $A C G G A A C C A A G A A C A A C A G G G G A A G G A G G B A A A G$ G GAAGGCACCAAAAGGAAAAAAAAGACAAGGGAGAGAGAAAA C G A C A A A A A A A A G G A A G G A A G G A A G GAGGAAAAAAAAAAAA A GAAGAAAGAACGGGCAACGGGAGGGGAGGGAAGGAACCGBAG ACAAGGAAGGCCACGAACGGGAAAAAGGAACAACAAAGAAAA A A GAAAAAGGAAAAGGACACAAAAGAAGAAGGGGAAAAAAAG A G G A G G G G A G A G G G G A G GA T G G G G A A A A A A A A GA G G CA GAC C AAGGGAAGAGGGAAATCAAACAGGAAAACCAGAGCCACAAAA ACGGAAGGAAGAAGAGAAGGGGCGGGGGCATAAAAAAAACAG AACAAAGGGGAAGGGGAAGGAGGGAGGGACAGAAAAGAAGAA G G G G G G G G G G A G G A G G C G G G A A GAGCAGAGACGGGACAAAAA AC GAGGCCCCGGAGAAACGAAGGGAAGGGGCCAGGBAAGGGG GAAAAAGGGGGGGCGGGGAGAAAAGGAACCAAGGGGCCGGGG G GCAAAAAAAGGGGCCAAGGAGAAAAAACCGGAAAAAGAAGG G GAAGGCGCAGGGAAACAACAAAAAAAGGGAGAAAAAACCCC C CAACCAAGGGAAAAGAAGGGGAAAAGGAGAAAAGAACAACC
 A A G GCCAGAACCGGGGAAAACCGGGGAGCCAGAAGAACTAGA
 G G G G C C A A A C A G G A G G A A G G A A G G G G A A A A A A G G A A A A A GAC A G GAGAGGGAAAGAAGAAACGGACGGGGGAATAAGACAAGAC A G G G G G G GCCCCAGAGCCGGTAGGAAGACCAAAAAGACAGAG GAAAAACCAGAAAAAGGGGAAAAAGGGGACAGAGGGGGACBG
 AGAGAAGGCCAAAACCAACCAACCCCGGCCAAGGAAAAAAGG G GAAAAGGAACCCCAAAAAAGGGGAAAAAAAAAAGAGAAGGG

A A A A A TAGGACCGGGGAGAACCGGGGGAGGGGCCCCGAAAAA A A A A G G A A A A G G G G G G A A G G G G A A G G G G A ACCAAAACAAAAA AA $A G A A G G A A G G G G C C A A A A A A G G A A G G G G A A G G A A G G A G A A$ AACCAAAAAAAAGGAAGGAAGGAAGGAACCAAAAGGAAAAAA $C C G G C C A A C C G G A A G G G G G G G G G G G G A A G G A A C C G B A A T T G G$ A A A A G G G G G G G GAA A A A A A A A A A GAAAA G GAAAAAA G G C C G G G G G G A A T T G G A G A A A G G GAAAAACACAGAGCCGGAAGETAG G $G G G A G A G G G G C C A G G G A G A A G A A A G G A G A A G A A G A G A A G G A A$ G G G G G A A A A A A G G A A A GAAAGGGGCGAAGAAAA G GAA G G G G A AAAAAGAAAAAAAGAACAAAGAGACCGGAAAAGGGGAAGGAG G GAA A G G G A A G G G GCCAAAGGGAGAAAGAAAGGGAACAAGAG A GAGAAAGGGAACAGAAGGAAGAGAGAACCAGAAAGTTAAGB G G A A A A G G G G G G G G A A A A A A A A A C C CAAAAAA A GA GAAC C G G G G G G A G G A A A C C G G G G A GAGGAGGGGCCGGGAAAGGGGAAAA GAAAAAAAAGAAGGGGGGGGGGAAGGGGAAGAAAGGAACAGG G GCCGGGGGAGGAAAAGGAGGGAAGAAACAGGAAAAAACCGG G G G A G A T T A A G G G A G G A A G G A A A A G G G A A A G G A GA G A T G G G A T TAA A G G G G GCAACAGGAGGCAAAAGGACAGAGGAGAAACAG G G G G G G G G GAAAGGAAGGAAAACGAACCGAAAAAGAAACCCC C CAGCAAGAGCAAGGGTTAAAAAAAAGGGGCCGGAGAAAGAG G GAAGGAAGGGGGGGGAACCGGAAAAGGAGACGAAGAAGAAA A A GAAAAAAGAACCAAGGAAGGCAAGAGAAAAGAGGGGAAAG G GAG $A \subset A G G G A A C C A A G G G G A G A A G G A A C C G G G G G A G G A A A G$ G G G G A A A GCC G G G A A A GAAGGGCCCCAAAACCAA GAGAAAA G A A A C G G G A C C G G A C C C G G G G G G A A A GAGACCCCA G GA GAC G G A G G GAACCCAAAGGAAGAAGAAGGGGAGCAGAGGGGAAGGGG AAAAAATTGGGGGGAAGAAGAAGGAAAAGGGGCAGAAGAAGG


 G G GAGGACAAGGGGAACAAAAGAGGGAAAGGGAAAGGAAAAAA G GAGAGACGGAAAGAAGGGGAAGGGGGGGGAAAAAAAAACAC GAAAGGCAAGCCAGAGAAGAGGTTAAGGGGGGAAGGCCGGAG GAAAGGACGGAAAACCCCGGAACCGGGGGAAAGGGGAAGAAA GAAGACGGGACAAAAGGGAAGGAACCGAAAAAAAGAAAAAGG A A C A A A A G G A G G A G A A A A G G G G G G G G A A A A A A A GCC GAAAC C A A A A A GAAGAAAGGGGCCGGCCAAAAGGCCAAAACCAAAGAC AAAAGGAAACGGAAGGAAGGAAGGAAAACCAAGGCAAAAGAA

 A CAGAGGAAGGGGGACGGAAAGGAAGCACCGAGAGGGAAGAA A A A G G GAA A G G G A A A A C A A A A A G GAAAA A A A G CA GAAAA A G A GAGGAAGAAAAAGGAGAGAAGGCCAAAACAAAAAAGAGAAGA $C C G G C C G A C C G G G G G A A A A G A A G G A G A G A A A T A G G G A A A A A A$ A A C C A A A A C CAAAAAATACAAAAACCAAGGGGAAGGAAAAAA A ACCAAGGAAGGGGGGAGGGGGCCACGGCCGGAAAAGAAAGA A A ACGAACCACCAAGGGGCCCCAAAGCAGGGACCGGG
GAA A GAGGGCCAAGAGAGGGGAAGAGGGGAGGACAAAGAAG A A A A G G G G G G A A G G G GCC G GCCGGAGGGGAAGGAA GAAAAG G ACAACAGGAAGGGGGGCCAAGGGGCCAAAAAGGGAAAAAAGG G G G G G GAA A A GCAGAAAAAGGGACCAGGGGAAAAGGCACCAC
 C C G G G G C C G G A G A A G A A A G G A G C C G G A A G G G G A G A A G G G A G G G G G G G GAA A GAAGAAAGAGGGCGGGACCAGGGCAGGAACCCC AACCAAGGCAAAGAAAAAGGGGGGGGGGGGAGGACCAACACC C C G A G A A G GCGGCCGGGGACAGAACCGAAAACAAAGGAAGGG
 A A G G G G G G GAAAAACATAAAAAGGCAGAAGAGAGAAAACCGG $A A C G G G G A A G A C A A G A A G G A A G G A G A G C C A A G A C C C A G A C C$

AA $A G G G A A A A A A A A A G G G A G A G G A C A G G A G A A A A G G A A G A A A$ G G G G G GCCAGAAAAGGGGAAAAAAGGGGAGAAGGGGAGAAAA A A G G GCGGGAGAAAAAAGAGGGAAAACAAGCCAAGAGAAAAA $C C G C A C G G A G A A G G G G G G A A A A A G A G G A C C A A A A G A G A G G G G$ G GAAAGGGAAAGCAGGCCGGCAGGGGAGGGGGA $\operatorname{A} A \operatorname{A} A G A A A A A G$
 A GAT T G G G A A G GAGCACAAAAAAAGGGGGAAA GAA GAGGGGG GAAGGAAAGGGGAAAGAAGACCGGCAGAGGAAAAGGGGAGAG A A A G G G G G G A A G G A G G A A T T G G A A G G C G G G A A G G A A C C G G G G A A G GAGACGGGAGAGGGAACGACGAGGAAGCCGGCCAAGAAA G G G GAAAGGGAACCAAAGAGGGGGGGAAGAAAAAGGAAAAAA G G G G G GA $\operatorname{G} G \mathrm{G} G \mathrm{G}$ GAAGGAAAACCGGAGAGAGGGAGGGAAAAGA A G G G G A A A A A A A A C A G A A GAAA A GAC G GAAAAA A G G G G CAAA $G G A G G G A A G A A G A G G G G G G G A A G G G G G A G G C C G G A A A G A A A G$ A G G G G G GAA A A GAGAGAAAAGGGGAGGGGACAGGAACAAAGG
 G G G G A A A A G G G GAACCCCGGAAAAAAGGAACCAAGGGGAACAC $C \subset G G C C G G G G A A G G G G G G G G C C A A A A G G A A G G C C C C A A A A C C$ AAAAGGGGAAGGAAGGAAGGAAAAAAAAGGAAGGCCGGAACC G G G G G G A A G G C C A A G G G G G G T T G G C C A A A A A A G G G G G G C C A A G G G G A A $\mathcal{A} G G G G G G G A A A A G G G G G G G G G G G G G G C C A A A A A A G G$ A A A A C C G G G G G G G GC C G G G G G G G GCC G G C C G G A A G G G G A A A A C C GGCCAACCAACCAAAAAAAAGGCCAAAAGGGGGGGGCCGG G G A A A A G G A A A A A A A A $\mathcal{A} G G G A A G G G G G G G G G G A A A A A A G G T T$ G G G G G G G G A A G G A A G G G G G G A A G G G GAAC CAAAAAAAAA A G C C A A A A A A A A A A A A G GCCGGAAAAAAAAAAGGGGGGGGGGAACAC G G G GAA A G G GCC G G G G G G G G G G A A G GCC G GCC G GAA G G G GA A A A A A G G G G G G G G A A G G T A A A G G A A A A G G G G G G A A A A A A T TA A CAGAAGGGAATTAGACGGAAAAAGGGAACCGGGGGGTTAAGA CAAAAAAAGAAAGGAGAAGGGAAAAAGGAGAAAAAAAAGAAA $A G G G A A A G G G G G C C G G G G A G A A G G A G G G G G G G A A G A G A A C A A$ GAGGGGAAAGGCAGGAAGGGCAGGAGAGGGGGAAAAAAAGAT
 AACCAACCAAAGACAAGGGAACGGGGGGGGAAGGCCGBAGAG
 A CAA $A \operatorname{A} A A \operatorname{A} G G G A C G G G G A G G G G G A A A G G G C A A G A A A G G G A A$ GAGGAAGGAAAACCGACCGGAGAGAGAAAAGGCACACAAAAC A A G G GA A A G G G GAGGGGGAAGAAAAGCAGGAAGAGAGAAAAA CAAA $A$ A A G GAACCAAGAAGGAAAAAGAGAAAAA GAGACAAGG
 G G A A G A A G G G G A C G A A G GAGGGGGCCAAGGAGGGACGGAG G G $A C A G G A G A G G A A G A G G A C A G G A G A C C A G G G A C G G A A G G A A G G$ G GAAAAGAAAAAGGAACCAAAAAAGGAACCGAGGCCGGCAAA A A G G G G G A G A G A A A A GACAGGGAAGAGAAGGGGGGGAAACAA CAAAAAGGGGAGGAGACTAGAGAAGAGGAAAGGGAAAAACA
 C CAAGGGGGGAGAAAAAAAAGGCAAGGGAACCCCAGAGAGAA AAAAGGGGGGGGGGGGAAAGCGAAAGGACCACAAGGAGGGGG A A A A A GAGGAAGGAAAGAATGGGGAGAAAAAAAAGGAAAAGG G GAA A GAAAAGGCCGGAAAAGGGGAAAAAAAAAAGGAAAAGG $G G A A C C A A G G A A A A G G G G G G G G G G A A C C G G A A A A A A G G A G A A$ A A G G A A A A A A A A G GAAAAAAGGCCAAGGGGGGGGAACAAA G G G G G G A A A A A A A A A A T TAA G G G GAATTAAAAAACC G GACAA G G AAGGTACCGGGAGAGGAAAGAGGACCAGGGAAGGGGAACCTT AAAAAAGGAAGGAAAGAAAGAAAAAGAGCAGACCAAAGAAAG $A G A G A C G G A A G A G G G G A G C C G G G A G G A A A A G G A A G G G G A A G B$ GAAGAAAGGGCAGGAAGGGGAAAACCAGAGAAGAGGGGAAAG G G G G G A G A GAA A A A A GAAGGAAGGAAGGAAGGAGGGCCAACC GAAGGGACGGGGAAAAGGGGAGGGAAAAAAGAAAGGGAAAGG

G G GAGGAGGGCCAAAGACGGAAGGGACAGGAAAAGAAAAAAA C C G G A A T T A A G G A A A A A A G G G A G G G G G G A GAAAAAA G G G A G G G G GAACAGAGAAAAGCCGGAGACAAGGCCAGAAAAGGCCACAG GAGGGAAGGGGGAGGAAGGAAGAAGGACAGAGGGCGAGAGAG A A G G T TAGGGGAGAGGGGAAGACCCAAAGGAAAAAACCGBAG G G G G G A G A A A A CA $A$ A A $\operatorname{A} G A G A A G G G G G G G G A G G A G G A G A A G G$ A GAA A A GAGGGAAACCAGGGAAAAAAAAGGAGCCGGGGAAAAA GGAAAGCCAAGAAAGAAAGAAGAGGGCCAAGGAAGGAACCAA G G A A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{G} A \mathrm{~A} A \mathrm{G} G \mathrm{G} A A A A A A C G C G G G G C A G G A A G A G G$ GAGGGGGACCAGGGAAGGAAAGGAGGGAAGAGAACACAGAAG
 C CAAAAAAAAGAGACCAAGGGGAAAAAATAGGACACATAAAG GACCGAGGAAGGCCGAAAGGGAGAAAGGGATTGGGGGGGGGA A A A A A A G A A G A GAGGGAAAAGAAAAAAAAGGAGAA GAAATCC $C \subset A G A G C A C C A C C C A G C C G G G G G G A A A C G G A A G A G A A G A G C A$ $C G G A G G A G G A C C A C G G A A A A G G A A G G G G A A G G G G G G G A G G G G$ G G G G A A G G A G G A A G G G G G A A A A $\mathcal{A} G A G A G A A G G G G C C G G G G G G$ G G G GCC C G G G G G A A A A G A A A G G G G A GAGGGCCTTCCGAAAG G AAGGCAGACCCCAGAGGGGGGGGGCCGAACAAGBAGAGGGGA G G A A G GCCGGGGGAAAAAAAAAGAGGGGAAAAGGAGGAAAAG ATGACACAGGAAGGAAAAAGCCAAAAGGAAAGAAGGAGCCGG G G GAAAGGCCCAGAAGAAAGAACCGGCCAAAAGGCCAAACBG G GAA A GAGCCGGAAAAGGGGGGGACCGGGGAGGAGGAGAAAA $G G A G A A A A A A G A G C G G G G C C G G A G A G G A A A C G C A A A A G G G G A$ $G G C C A G G G A A A A A A G G A A G G A G A G G G A G G G A A G G G G G G G G G G$ A GAATTAAGGAACCGGAAAGACAGAGACGGAAGGGAGAAAAG GAGAAGACAGGAGAAGACGGAAAGAAAAGACCAAAGAAACAA GA $A \operatorname{GA} A \operatorname{A} G A G A A G G G G G A G G C C G G A A G G A A G G G G G G A A A A G G$ A A G G TACACCAACCGGAGAGAGGGACAAAGAAGGGAGGGGGG A A G A A A G G G G A A G G A A A A $\mathcal{A} G G G G G G G G G G G G G A A G G A A G G G G$ G G G G A A A A A A G A A A A A G G G A A A A GCGGACAAAGGGAGGAAAA GGCACGAGAAATCCGAGAGGAGGAAAAGAGAGGGGAGAAAGA G GAAAAGGAGACAAAAAAGGGGAAGGAAGCAAGAAAAGAGGG AAAGGAAGAGAGGGAAAAAACAAAGAAAAGAAAAGGGGGGAA GATAAGACAAGAGGCATTACAGGCAAAAAAGGGGAAAAGGGA AGGACCGATAGGAGAGGAAAAAGAAACCGAGGAAGGAAGGAA A G G GAAAGGAGGGGAGAAAAAAGAAGGGGAAAGGGGGAGACA
 G G G G G G C C A A G G A A A A A A G G G A G G G A G A A G G G G G G G G G G G G A G G GAA A A A G GAAAAGGGACGGCCGAAGAAGGCCAACCGGGGAG A GAA $A \operatorname{GGG} \operatorname{G} A A A G G G A A C A A A C A A G A G G A G G G G G G A G A A G G G G$
 A AAAGGCAGACCGGGAAAACAGGGCCGGGGAAGAGGGGAAAG GAGGGGGAGAGGCCCCACGGGAGGAAGAAAAAGGAGAACAAA AACCAAGGAAAAGGAAAAGGCCAAAAAGGGAAAAAAGGAGAA G G G G A A A C A GAA A G G GAA $A \operatorname{AGGGCCGGCCGGAAGGAACAAAAA}$ GACCGGGGGAGGGGCCGGAAGGAAGGAGGGGGAGAAG
GAGGGGGGGGGGGCCGGGGAAGGGGAAAGAGAGGGAAGGGG A GAGGAAGGAA GAAGAAGTTTAGAAGAGGGAGAAAAAAGGAG A G G GAAGGACGGACCCAAGAAAGGGGAAACAGAGGGGAAAAG G G G GCCGGGGAAGGGAGAAAAAAAAGGGAACCGGCACAAGAA AAAAGAGGAAGGGACCGGCCGGAAGGCAGAGAGGGGAAAAAA GAGGGAAAAGGAAGGGAAACGAAAAGCCGAGAGGGAAAGGGG CACCAAAAAAAAGGAGGGGGAAAAAAAGAAAGAGGGGGTAGAG G GAAAAGGCAAGAGAGGAGGAGAAAAGGAAAACCGGCCAAGA G G A A A A C C A A A A A A GAGAGAGGAAAGGCAGGGGGGGAGAAAA GAGGCAAAGAAAAGAAGAACACGGGGGGAAAAAACCAAAGAC
 $A A G G G G A A C A T T A A G G G G A A G G A T G A G G G G A C G G A G G G C C A G$

A A GAA A G GAAGGGGAGAGGAGAGAAGGAAAGGGAAACCGGGG G GAGGAAGAGGGGAAAAGAAGGAAAGAAGGAAGGAAAACAAA ACGGAACCAAGGGGAGGGGGCCAAAAAAAAAAGGGGCCGGGG A G G A G A G A A G G A G A G G A G G G A A A G G G G G G G G G A A G G T T C C G G G G G GAAAGAGGACAAAAACAAGGGAGGAGGGGAGAAAGAAGG C C G GCCGAAAGAAAAAGGAAGGAACATAGGGGAAAAAAAAAG A G G G A GAAAAAACCAGAAGGAAAAAAGGGGAGAACACAAAAG GAAAAGGAAAGGAACAAGAAGGAAAACCAGAGGACACAAAAA A A A A C C G G A A A A A A A A A A G G G G G G G G A A A A A A G G C C G G G G A A G G G GAA A G G GAAGGAAGGCCCCAATTGGAAGGAAGGAAAAAA AAAAAAGGAACCGGAAGGAAAAAAGGCCAAGGAAAAAACAAA A A A A A A $\mathcal{A} G G G G G G G A A G G G G A A G G G G A A G G A A A A A A G G G G A A$ A A G G A A C C G G G G A G G G G G G G A A A A G G A A A A A A G GAACAAAAA
 A A G G A A G GCCAA C C G GAGGCCAAGGGGCCGGGGGGACGGACAA G G G G G G G G G GAAAA A GAGAGC GAGCCAGAGAAGAGGGGGAAA G G G G A A A A G G G GAA A A A A A G GAA A G G G G GAA A G G GAAAA A G A A G G A A A A A A G GAA $A \operatorname{GAAAAAGGAAGGAAGGAAAAGGGGGAAAAA}$ AAAAGGAAAACCAACCGGGGGGAAAAAAAAAAAAAAGGAGAA A A A A G G G G A A C C A A A A A A G G A A G G A A A G G G A A A G G A G G G G A G AAAAAGAAAAAAGACCAAAAGGCCAAAAAGGGGAGGGAGAAG CAAAAAAAAACCAGAGAAGAAAAAAAGGGGAAGGCCGGAGGA C C A A A A A A A G A GAA A G G G C C G G G G GAGAGGAACCGGGGAGAA G G G G G G G G G G G A A A G A A A G A G G A C A A G G G GCGGGGGAAAAAA G G G G A A A A A A A G G G G A A A G GAGAGAAGGAGAGGGAGAAAAAA A TCCAGGAGAAAAAAGGGAAGGCCAAAAAGAAGGAGAAGGGA A GAGAGGGAGAAAGGGAAAAAAGGCAGAGGAAAAGGGAGGGG GATACCAAAAGAAGGAGGGAACCCGACCGAGGAGGAGAGGCA G GAGAAAGAGAGAGGAAGAAGAGGGGAAAACCGGCCAGAAAAA G G G GAACCGGGAGGAAAAGGAGAGAAGAGAAAAGAGAACCAA A A A A G A A G A G G G A A A A G G A C G G A G A A A A G G G GCCCACACAA A GAAGAGCCAACCAAAAAAGGAGCCAACCGGAACCGGGGGGGG GAGGGGCCAAAAGGCAGAAGCAAGGGAGAGGGGGAAGAAGAG A GAAA $A \operatorname{A} A A A G A A A G A G A A A G G G G G G C C A G G G G G G G C A A A G G$ A A A A A A G G A A G G G G A G G A A A G G G G A A A C G A A A G G G GA G G G A G A A A G A GCCCAAAGGAAAAGGGGAAGGAAAGGAGAAGAGAACC GAAAAAAAAAGAATAGAGAACCCCGGAGGAGAGAGAGAGGAA AAAGGGGAGAAAGGGGCCGGAAAAGGGAAACACCGAGGAAAG A G A A A G A A A A A G G G A G G G G A A A G G G G A A G G A A T T A A A GAAA A
 AAGGGGAAGGAACCAGAACAGAAAAGGGAAAATTAACCCCGG A ACCAA $\mathcal{A} A G G G G G G G A G A A T C C A C A A G G G A G G G A C C T T G G G G$ AAAAGGAAAAGAAAGGAACCAAGGAAAAAGAAAAGAAAAACC G G G A C A A G G G G A G G A G G A A GCCAGGGAAACGAGGAGAAACAC A A A A A A A G GAA A A A A GAAAGAGAACAAGGAAAGAAAACACAA CA $\operatorname{G} G A A G G A A A G A A A A C C G G A G G A G G G C A G A A A G G G A A A A A A$ G G G G G G G G G G A A A CAAGACCAAAAGACCGGAAAACCAAAA GA A GCCGGAAAAAAGGGGAAACAGGGAGGACCGAAAAAAAGAAG AAA A A GAA $A$ A A G G GCCAGAACAGAAAGGAGGACCGGGAGAAC A A G G G G A A A T A GA G A A G GAACCGGAGAGGGAAGGAAAGAGAA G G G G A C G A GAA $A \subset A A G G G A G G A G G G A A A G A A A G A C A C A C A A A$ G G G GAAAGAGGGAAGGAGAAAAAAAAGGAGGGAACAAA GAAC GAAGCCAGAGGACCCCGGGGGGAAAAGGGGAAAAAAAAGGGG AAAAAAGGGGCCAAAAAAAAAAGGGGGGGGAAGGGGGGAAGG G G A A A A A A G G A A A A A A A A A A C CAA G G C CAAAA G G G G G GC C G G C CAAAAAAGGGGCCCCAAAAAAAAGGGGGGAAGBAACCGGGG AAAACCGGGGAAAAGGGGAAAAGGGGAAGGAAGGGAAAAAGAG $G G A A A A A A G G G G G G T T A A A A C C G G A A G G G G G G A A A A G G A A G A$ AAGGGGAAGGAAAAAAGGGGGGGGAGCCAAAAGGAAGATTGA

G G GAGGAGAACAAAAAAAAAGGGGAACAAGCCAAGGGGGGAA G GAA A G G GCCAAAGACAGAAAAGGGGAAGGGGAAGGGAAAAA AA G G G GAAAAA ATTAAAAAGAGAAGGAGGAGGAAGGAAAAGG AAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGGAAAGAAG AAAAGGAAGGGACAGGAAAAAGAGACAGAAAAGGGGGBAAAA
 A GCCAAAAAAAGGGAAAAATGGGGAAGGAGAAGGAAAAGGAG GAAAGGGGAAAGGGAAAAAGAAGAGAAGCCGGAGGGAAAACC C C T T G G A A A A A A A A A A A A G G G G G G A A G G G G A A G G A A G G G G G G GGCCGGGGAAGGCCAACCAGAAAAAAAAAAGGGGGGCCGGGG A A G GAACCAAGGGGCCGGCCGGCCGGCCGGGGGGGGGAGAAG $G G C C G A A A G G A G A A A A G G G A A A A A G G A G A G A A A A A A G A A A G B$ G G G G A GAA $A \operatorname{GG} A C C G G A A G A G G A G G G C C G G A A G G G A G G A A G G$ AAGGAACCGGAAAGGAAGGGAAGGGGACCCAGGAAGGAAACC AAAAACGGGGAGGGGGAAAAGGAGCCAAGGAAAACCCAAAAA AACCAAAAAAGAGAAACCCCAGAGACAGCAGAGAGAAA G GAA $A \subset A A G G G G G G A G G G G G A A G A G G A A G A G G A A A G G G A A C C G G G G$
 G GAGGGAGAAAGAAAAAAGGGGAAAAAAAACCAAAGACAAAG AGAGCAGGGAAGCCAGGGAAAAAGAACCAAGAAGAGAACCAG GGACAAAGGAGACAAACCGGAACCGGAAGGAGAAGGCCAAAA AAAACCAAAAGGAGGGGGGGAGGAAAAAGGAAGGAGGACAAA
 G G G A A A C C C C A A C C G GAA G GAA G GAAAAAAAACCAGGGAAAA A A C C G G G G A A A A A A C G A A G G CAC C G GAAAAAA A G G G G GAA G G AAAAGGGGAAGGAACCGGCCGGGGAAGGAAGGGGAACCGGGG AAGGCCAAAAGGAAGGGGCCAAAAGGAACCCCGGAAGAAAAA G GAACCGGAAAAGGGGGGCCGGAAGGAACCGGAAGGGGAAAA $A A G G G G G G G G G G G G A A G G A A A A A A A A G G G G G G A A G G G G A G A A$ GGAAGGCCCCGGCCGGCCGGGGGGGGAAAAAAGGAAAAAAGG A A G G G G A A G G A A C C G G A A A A A ACCCCGGGGAAGGCCCAAAAA AAAAGGCCAAAAAAGGAAAAGGGGGGAAGGGGAAAAAAGAAA G $G A A G G G G G G G G A A A G A A C A C A G G G G G A A G G A A G A G G A A A G G$ A G G G A G A G G G A A A A G A G G G G G G A A G G A A G G A A G G G A A A G G G A A A G G A A A A A A A A A GACA $A \operatorname{AGAGGGAAAAAGAGAAGGGGGGGAG}$ $A G G G G G A G A G A G G A A G G G A G G G G G G A G G A A G A A A A A G G G G B A$
 $A G C C A G A G A A G G G G G G G G A A G G C C G G A A C C G G A A G G G G G G G G$ C C G G A A A A A A A A G G G G G GAAAAC CAAACAGGGGGAAGGAAAAA A G G G A A A A A ACCACCCAACCCAAAGAGGAACAAGBAAAATAG A G G G G GA GAA $A \operatorname{AGGGAAAAAAAAGGAAAGATGAAGAAGGAGGG}$
 AGAGGAAGACAGAGAAGGAAGGACGGAGCCAAGAAGAAAACA A A A A A ACCACACCCAAAACACCGGGGAGAAAAAAGGGGEGAA A A G G G GCC G G G G G A C C G G A A G G A A G G A G G G A A G G G G C C G A G A C CAAAAGGAACCCCAGAAAAAAAAAAGCAACCAAGGBAAAAG A A A G G G A A G G G GA $\mathrm{A} A \subset \mathrm{~A} G \mathrm{G} C \subset A A G G G G A A A A A A A A A G G$
GACGGACGGCAGGAGGGAAAGGGGCGACCAGAGGGAAAAGG A A A A G GCC CGGAGAAAGGGGGGAAAAGGGGGGAAAAAAGGGG G GCCGGAAGAGAAAGGAAAAGGAGGAGGGGAAGGCCAAAAGG AAGGAGGAAAGGCCGGAAAGAAAAAGAAGGAAAAAGAAAAAA A G G G G G G G G G G GAAAA A $A \operatorname{AGGAA} A A C C G G A A A A A G A G C A G A C C$ A C A G G A C C G G G G A T G G A A A A A A A A A A A G G A G G G G A A G G C C A A A G G G G G G G A A G GAAAGAGGGGGGGAAAAAAGAAGCCGAAAAA G G G A G G A A G G G G G G A G G G G G A G G G G G A G G G A A $\mathcal{A} G G G G G G G G G$ GAGGGGAAAGGGGGAAAGAAGGAAGGGAGAGGGAAGGAAGAA A GAGAGGGAAAGAAGAAGAAAGACAGAGCCGGAAGGGAAAA G $A C A A A G G G A A A A A A G A A A G A A G A G C A G A A C C C A G G G A G B G A G$ G GAAGGAAAACCGGGGGGGGAACCCCGAGGGGAGGGGACAAG

A GAAGGGGAGAGGAGGCCAAAAGGGGCCGAGGGAAAAAGAAA
 $G G C C G A A A A G G G G G G A A G G G A A G A G A C A G G A A A A G G G G A A G A$ GACCGGGGGGAAGAAAAGCCAAAACCAAGGAAAGCAAGGGAG A GAAAAAAAAAAGGAACCAGAAGGAAGGCCGGGACCAAAGAC A GAA $A \operatorname{GA} C A A A A A A G G G G G A A G G G G G A A G A A G G G G A A A C C B A$ GAA A A G G G A A G G G G CAGGGGCAGGACAAGGAAAAGGCCAGAG C CAA A A A A G G G G GACAAAGAGCAGGAGAGAAGAAAAGGGGGG C C G G G G G G A A C C G A A G G A G GA G G A A G A G G A A A A GA G G G GA C C GAAGGAGGGGCCGGGGGAGAGGGGGAGGAGAGAAGGGGAAGA A GAGGGGGAAAAGGGGGGAAGGAAAAAAAAAAAAGGAAGGAA A A G G A A A G G G G G A A C G G GA G G A T T G G G A A G G G A A A G A C A C G G G G A A G A T T GACAAATTAGCAGGGGAACCGAGAAAAAAAAAGBG A A G G G G A A G G C C G G G G G G A A G G G G G G A C G A A A A A C C G A C C A G CAGGAAGGAAGAGGGGAAAACAAAGGGGAGCAAACCCCAGAA $C \subset A A A A G G A A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A A$ A A G G A A A A A A G G G G A A G GAAGGGGGGCCAACCAAAACCAAGB G G A A A A A A A A G GAA A G G GCCGGCCGGAAAAAAAAAAGAAAAA AAAAGGAAAAAAAAGGGGGGAAAAGGCCCCAAGGGGAAAAGAG A A A A C C A A G G G G G G G G A A T T A A G G G G A A T T G G C C A A A A G G G G AAAAGGGGCCAAGGAAAAGGGGCCGGAAGGGGGGGGGAAAGA A A G G G GAA $A \operatorname{GA} A G G G G A A C C G G A A G G G G A A C C T T A A G G A G G G$ A A A A A A A A A A G GAA A G G G A A C CAA $A \operatorname{AGGGAAGGGGCCGGAAAA}$ G GCCGGAAGGCCAAAAAAGGAAAAAAGGAAAAGGCCTTAGAA A A A A A A A A G G G GCC G G A A A A A A G GAAG GAACCAAAA G GAA G G AACCGGGGGGAAGGAAGGCCAAGGAAAAGGAAAAAAGGAGAA G GCCAA $C$ G G G A A A A G G G G G GAAAA A GAACCGGGGGGAAAAAA G G G G G G A A G G A A G G A A G G A A A A G G G G A A A A G G G G G G G G A A G G
 AAGGAAAACCCCAAGGGGGGGGGGAAAAAAGGAAGGGAAAAA G G G G A A C C G G A A G G G G G G G G A A G G G G A A A A A A G G G G A A A A $G \mathcal{G}$ G G G GCCGGAAAAGGAAGGCCAAGGAAAAAAAAGGGGGGCCAA G GAAGGAAGGCCAAGGAACCAACCGGGGAAAAGGAAAACAAA CCAACCGGGGAAAAAAAAAAAAGGGGAAAAAAGGGGAAAAGBG A A G G A A A A A A G G A A A A G GCCGGAAAAGGGGCCAA G GAA G GAAA G G G G G G A A $\mathcal{G} G G G G G C C G G A A G G G G G G A A A A C C G G G A A A A A G G$ G GAAGGAAGGAACCGGAAAAGGCCGGAACCGGGGAAAAGGGG G G G G G G G G A A G G A A G G G GAA $A \operatorname{A} A A A A A A A G G G G G G A A G G G G G G$ A A G G G GCCAACCGGAAAAAAAAGGTTGGAAGAAAGGGGAAAA
 A A G G A A G G G G A A A A G G C C G G G G G G A A A A G G A A G G A A A A G G A A A A G G A A G G G G G G C C G G A A G G A A G G G G C C A A A A G G A A G G G G G G A A G G G G G G G G G G T T A CAA $A \operatorname{AGGGGGGGGGAAGGGGGGGGAAAA}$ A A G G G G G G G G G G A A A A A A A A G GAAAAGGAAAAGGGGAACAAA A GAA $A \operatorname{GAAAAACCAAGGAAGGAAAAAAAAGGGGCCGGGGAAGG}$ C C C C C CAA G G A A A A GGAAAAAAGGGGGGAACCAAAAAAAAAA A A A A A A G G CC CGGGGGGGGGGAAAACCAAGGCCAAAAAAAAAA A A A A A A G G A A A A G G G G G G G G G G A A C C A G A A A A G GAAAA A G G G G GCCAA $C$ G G G C C G G G G G G G G G G G G G G G G A A G G A A G G G G A A G G C CAA $A \operatorname{GAAAAAGGAAGGAAGGCCGGAAGGAAAAGGAAAAGGAA}$ AA $\mathrm{A} G A A \mathrm{~A} G \mathrm{~A} A A A A A A A A C C G G G G A A G G A A A A A A A A G G G G G G G G$
 A A C C G G A A G G G G A A G G G G G G A A A A G G G G C C G G G GCC C G A A C C
 G G G G G G G G G GAACCTTCCGGGAAAGGCCGGCCAAGAGAAAAG A A A G A A G G A G A GAGGGGCGGGGGGTAGGAAAAGGAACCAAGA
 A A C C A A C C A G G GAAC CA $A \operatorname{A} G G G G G G A A C C A A A A G G A G A G G G A G$ G G G GCCAAAGAGAAAGAAGGACGAAAGGAAGGAAAAAAAAAA

A A A A A ACCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGAAA
 A A G G G G G G A A G G G GAAGGCCGGTTAAGGGGAAAACCGGAAAA G G G G G GAA $A \operatorname{GA} A A A G G A A G G A A G G A A A A A A C C A A A A G G G G A A$ G G G GAA AGCCAAGGAAAAGGCCAAAAGGAGAAAAGGAAGGGG $G G C A A A G G C C G G G G A A G G G G A A A A G G A A A A A A G G A A A A C C G G$ G G G G G G G G A A A A A A G G A A A A C C G G G G G G G GAA G G C C A A A A C C C CAAGGGGGGAAAACCGGAGGGAAGGAAGGGGAAGGAAAACC G G A A T T A A G G G GAA $A \operatorname{GCC} C G A A A G G G A A A A A A G G A A G A A A A A$ AAGGGGACGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAGG A A A A G G G G A A A A A A G G G G A A A A G G G GAAAAAA A GAA G GA GAA G G G G G G A A G G A A A A G G G G A A A A A A A GAAAAAAAAAAAGGACAA C CAA $A \operatorname{GAAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCGGAAAA}$
 G GAAAAGGCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGGG G G G G G G G G G G G G T T A A G G G G G G G G A A A C GA $\mathcal{A} G A G G A G A A A G A$ A A A G G A G G G G A G G A A A A A G G G G T T A A A A A A G GAAA $A$ A G G A G G GAATACAACCAAGGGGAGGGGGGAGGTAGGGACAAAAAGAGG AACAAGGGAACACAAAGGGGGACCAAAAAAAAAAAAGGAAAG GAGAACAAAAAAAACAAAGGAAGAAACCGAGGGGAAGGAAAA $C \subset A A C C A G C C G A A A A A A A G G G G G A A A G G A A G G G G A A G G C A C C$ A A GACAA A A G A A GAGGAGACGGCCGGGGGGGAGACAAGGGGG A A A A A A G G GAGGCCAAGGAAAAAAAAAAGGAAGGGGCCAGAG A A A A A A A A G G A A G G G G A A CAAAAA A A A A A G GAGAG GAGAAAAA GAGGGAAGAAGGAAGGGACAAAAAGAGGAAGGAACCCCAAAA G GAAGGAGGAAGAGAGAGCAGAAAGGAAAGAAGGAGAAGAAA CAGAGAGAAGAGGACAAAGAAAGGGGAGAGAGAAAGGGAAAG G GAGACAGGGCACCGGGAGAGGCCACAACCAAGAAGAGGGAG
 AAAAGGAAGAGGAGCAGGATAGGGAGGGAAAGGGAGGCAGAA GAGGAGACGGGAAGAGGAGGAGAAGGAGCCAGAGACGAAGAG A GAGAAAAGGCCCCAGGGAGAAGGGGGGGGAAGGCAGGAGAA

 A A A A A A G G A A G G C C A G A A A A A GAGGGGGGGAGCGAGCC G GAA A G GAA A A A CC G G A C G G A A GAGAGGCCGAAAAAAAG GAGACAA C C C C G GAA G GAGAAAAAACCAAGGAAGGAAGGGGAAAAAAAA A A A A A A GAGGAAAAAAAAGGGGAGCCAGCAGGAGGGAAACAAA GAGAGGAGGGAAAAAAAACCAAGGGGAGGGAAAAAAGBAGCG CA $A \operatorname{GAAAAAGGAAGGGGAAGGGGGGGAAAAAAAGGGAGAAAAC}$ GAAGAACAAGAAGGGAGGAAAAAAAAACAAAAACGAAGAGAG $G C A A A A G G A G A G A G A A A A G A G G C C G G G A A G G G G G G G A A A A C A$ C CAAAAGGCCGGCCAAGGCAAAACAACAAGAACAGGGGAGAA AAAGGATTAGAACCCCCCAAGGGGGGAACCGGGGGGACAAAA C C A A A A A G G G G A A A A A A GAGGGAACCGGAACCGACAAAAA G G G GAAAGAGAGGAGGAAAAAAAACCAAAGAACCGAAAACAGAC A G A A C A A G G A A A A G GA $\operatorname{A} G A A G G A A A A G G G G A A G G G G A$
AAAGGAAAAAAGAAGAAGGAGAACCCGAAGGGGGGAAAAAA AAGAAAAGCCCCAAAACCAAAGGGAGAGAAAGAGTTAAAAAA $C \subset G G G G G G A A A C G G G G G A C C A G A G G G G A C C A G A G A A A A C A G G$ AAAAAGACAAGGAGAGAAAGAAAGGAAAGACCAGACGAGGGG AACCGGAGGAAGGAGAAAGGAAACGGTAAAAAGGAAGGAA GA A A A GAAGGCCAGAAGAAGAAAGGGAGAAGGAAGAGAAAGGGA CAGGAGGGGAACAAAAGGTAAAAGGAGGGGGGAGAAAAAAAA AAGGAAAAAACCACGAAAAAGGGGAAAAGGAAAACCCCAGAAA A A A A G G G G G G A A G G C C G A G G A A G A A A A A GAGGGAG GAC G G C C
 $G G \subset C G G A A A G G A G A G G G G G G G G G G A A G G G A C C A A G G A A B A G G$ GGGAAAAGAGAAGGCAAAACGGAAGGCCGAACAAAGAAGAGA

G GCCGGAAGGGGGGGAAAGGGGAAGGACGAAAAAAGGAAAAG G GACAAAGAAAAAAGGCCAACCAGAGAGGACAGAAAAGAGGA
 AAAACCAATTAACCCGTTAAAAGGGGCCGGGGCAGGAAGGAG CAA A ACAA GAGGAAGAGGGGGGCACCAGCCGGTTACGGGAGA G GCCCAGAAACCGGGGAGGAGGAGCCGAAAGGGGCCGGAAAG
 AGACACAAGGGAAGAGGGAACCGGGGCCAAGGGGAGCAGAGG $A G A A A A G A A G G G G G A A G G G G A G A A A A G G G G A A G A G A G G G G G G$ $C \subset G G G G C C G G A G A G A A A A A G A A A A A G A G G G A A A A A A G G A A G G$ G GAAGGAAGGAACCGGCCAGAGAACCACGGGAGGAAGAGACC A G G GACGGAAGGGGGGACGAACGGGGGAGAGACCGACAAAGG G G G GCCAGGGCAGGGGCATXGGGGGGGGCAACGGGAGGAGAA AAGGAACCAACAGAAGCCGGAGGGAAGAAAGAAAAAGGAACC GACCAAAAAAAAGGAAGAAAAAAGAAGAAGGGAATTGGGGAG AA $A \operatorname{GGGA} A A G G A G G G A A G A A G G G A G G G G G A G A A A A G G G A A A A$ AC G GAAAAAAAGGGGGCCAGAAGGAAAAAAAACCAAGAAAGBG G G G G A A A CAAA A G G G G G GAAAAAACCAAAAAAATAGCCGGGG ACAAGGGAAGAAAGGATTAAAGAAAAGGAACAAGGAAAGGAA AA G G A A C CAAA A G G GAGGCCACGAGAAAAGAAAA GGGGAGAA AAGGAAAAAAAAGGAAAGACGAAACAAAAGGGAAAAAAAGGG G G GAAAAGACGGGGGGGGAAAAAAAAAAAACCGGAAAGGGGG GAGGGGAGGGAAAAAAAAGGAGAAGAAAAAGGAGGGAGAAAA A GACATGGGGGGAAACGAAAAGAAAGAAAAAAGGAGCCAGBAA A G G G A A A A A G G GAA A A G GAGGGGAAAAGAACGCCAAGBACAC CAGGAAAAGGAAGGCCAAGGCAGGCCGGGATAGGAGAAGGCC G G G GAGGGAAAGCAAGGGAGGACCGACCGGCCGGCGGGGGCA G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A A G A A G G G G G G A A C CAA $A \operatorname{GAAAAAGGAAAGCCAAGAAAGGGAGGAAAAGAAGAGAG}$ GAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGGAACAC G G G G G G A A G G A A A G C C G G C A A G C A G G G G G G G G G A C C A G A A A $G$ GAAGGAGAGGAAGAAGGACCGGCCGGAGGGGGAAAGAGACAG G GAAAACCAGAAGAAAAAAAGAGGAAGAAGAAGGAACCAAGA
 GAAAACCCGGAAGGAAAACCGGCCCCCCAAAAGGAAGGAGAA G GAACCAAGAGAGGAAAGGGGGCCAGACAGGGGGCCGGAAGA A A G G G GA G G G G GAA A ACCATAGGACGCCGAGGGGGGAAAAGA $C G A G G G A A G G A A C C A A G G G A G G G G G G A C A G C A G G G G G G A A G A$ G GAGGGGAAAGGGGGGAAAAAAGAAGCACAGGGAAAGGAAAG GAAA A A G GAGGGAAAAACGGAGAAAAGAAGAAGAGAAGAGBA GAAAGGCCAAGGAGAAGGAGGGAGAGAGAAAACCAGAAGGGG G G G GA GACCCGGGGCAGGAAAAGGCGGAGAAGGAAGAGAAGG A GAAAGGGAAGGAAAAGGCCACGAACACGGGGAGAGAGCAAG G G GA G A A G A GACAGCGGAAGACCCAGGAAAAAACAAAAAGAA GAGGCAGGGGAGCAGGAGGGAACCAGAAGGGGAAAGGGAGAG G GAACCAGAAAAAAAAGGGGAAAAGGGAGGAGAAAAGGAGAG GAGGGGGAACGAGGACAGGGGAAACAAAAGAAAGAGAAAGGG A G GAA A G G G GAGAGACAAAAAAAAGGAAAAAAGAGGCAGGGA GAAGGGAGAAGGAAGGCCAAAAAGCCGGGAGGGAGGAGGAGG G GAGGAGAAGCCAAAGAGGGGGGAGGGGAAGGAAGGAACABA G GAACAAAAGAAAACCAAAGGGAAAAAAGAAGAGAAAGAGAC $C \subset A A C C A A G G A C G G C C A G T T G G G G A G G G G G A A A A G G A G A G G A$
 A G G G GAGAGAAGAAGGAGAGCCCCACGAGGGAGGAAGAAAGG A A G GAA A G G GAAAAGAAAAAGGAGGGAAGAGGCAACGGAGAA G GAGGGACGGGGGGAAGGAAGGAAAGGAGGCCGGAAAAGGAA G G G G G G G G A GACGGAAGAGGTTAAGGAAGGAAAAAAAACCAG A A A C A G A G G G G G G G A A A A C C A A G GAGGGAACCGGCAAA G GA A GGAAAAGGGGAACCAAAAGGCCAAAAGAGACCAACAGGGGAA

G GAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAGA
 G GAA A G G G GAGGGGGGAAGGGGGAAAACAAGGGGAACA GAAA GAAAAAAACAAAAAAAGGAAAGGAAAAAAGGAGGAAGGAGGG A G GAA A A A GAGAGGAGGAACCAAAAAAAAACCGGAAGGGAGG A GACAAAAAGGGCCAAGAGACAGGAAAGGAGGAAGGAAAAGA G GAGAGAAGGGGAAAAAGGAAGAAAGAAGAGAAGCCAGAGAG G GAAGAAGGAACGGGCGGGAGGAGAGAAAAGGGGCAAAAAAA A GAGAAGAAAGGAAAAAGGGAAAATAAAAGGGAGAACCACAA G GAAAAAGGGCAGGCCAGAAGAAAAAAAGGCAAGAGGAAAAG A G GAAA A A CAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A \operatorname{A} A C C G G G A A G A A A A G A G G G G$ A G A A G A A GCGGGAACAAAGGGGAGGAAAAAGAGGGGTACC G G G G G G A G G A G G G G G G G A A A G G A A A G G G A G G G C C G G C C G G A A G G CAGAAAAAGGCCAGAAGAGAAGGGAACCGGACAAGGGGAGGA T T G G A GAAAAAAGGAAGGGGGGCCAAGGGAGGAAGACCAAGG ACAGAGAGCAGAGAGGAGAACCCAAAAAAAGAAGAGACAACC GATAGGAAGGAACAAGGAAAGGGAGAAAGGAAAAAACAGGGG AACCACAGCAGGTAAACCAACCAAGGGGAAGAAGCCCAAAGAA $A G A A C G G A G G C C T A A G A A G G G G A G A G A A G G A A A A G G A A A G G G$ G G G G A A G G G G A A A $\mathcal{A} G G G G A A G G A A G G C A A G G G C C G A A A G G G G$ GAAAAGGGAAAACGCAACGGAAGGCCAAGACCGAGGGGGGGG G G G GAGCAGACCGGAACAGGGGGGGAAAAAAAAAAAAGAAAG G G G G C A C C A A A A A A G G A A TTGGAAAAACAAGAGGTTAAATAA G A G A A A A A A A A A A A G G G A G G A G G A GAGGAGAAGAG GAAAAAA A A A A A A G G G GAACCGGCCAAAAGAGGGCACAGGGAGAAAA G G AAAAGGGGGGAAAGTTAAGGAGACAGAAGGACGCACAACAAG G GAA A G G GAGGGCAGAGGGGTTCCACAAGAAGACCCGAGGAA G GACGGACAAAGGAAGAAACAGCCGGAACCGGAAGAAGAAAC G G TAAA A G G GAAGGAAAAGGAAGAAAGGAAGGGGAAGAAAAA $G G A A G G A A G G A A G G G G G G A A G G A A A G G G G A G G A A G G C C B G G A$ C A G G A A G A G C G G G A A A G G A A G G G G T TA G C C G G G G G C G G C A A A ACAAACAAAAAAAAGGGGAAAAAGAGAGGAAAAAGAGGGGAA T T CAAAAA A $A$ A A A G GAAGGCGGGAAGGGGAGGGGGAAAAAAAA $G G A A G G A G A A A G A G G G A A A G G G G G G G A A G A A G G G G A A A A G A G$ G GAGAAGAGAGGAAAAACAACCGGGGGAAAGGAAGAAAGABA $G G A T G G A A A G G A A C C G A G C C C C G G G G A G A G G G A G G G A A G A A A$ GAGGGGGGGGGAGAAGGGGGGGGAAAAAAGAGGGGGAAAAAA G G G GAA A GAGGAAGAGAGGACAAAGAAAAGCCAAGGCCGGGG A G GAG G A A G A G GAA A G A ACCGAGGAGGACCAAACAAAAAAGA G G A A T T A A T T A A A A A A A A G G G A A A A GAA G GC GA A A G A A T T A A
 A A A A C C A A G G G G G A GACC CAA $A \operatorname{A} G G G G G G A A A A A A A G G G G G A C$ GACCAAAAAAGGCCAAGGCACCGGAGAAAAGGAACCGGAAAA
 CAGGAGGGAAAAAAGGAGGGAACCGGAAAAAGCAGACCBGAA A G G G A C A A A A G G G G G G A A A A G G A A A G G G CAAAAAAAA G A A A G A GAGGGGCCGGGGAAAGGGCCCCCCAAAAGGAAAAGGG
GCAGAGGGGACCCAAAGACAGGAGGAACCGAACCCCAGCAG AAGGAAGAGAAAAAAACCGGGGGGAAAACAAAAGCAGAAAGB G G G A A T A A A A G G G A A G G G G A A G G A G G G G G GAAAA A A A CAAAA A
 C CAAA A A A CAGGAGAAGAATGGGGCCAGAAGGCCGACCACAB AACCACAAAAAAAACCAAAAGGAAAGGGGAGGCAAGAACAAA G GAAAAGAGGAAAAGGGAAGGGGAGGGACCGAGGATGGGGAG AAGAGGGAAAGGGGCCAAGGCCAAAGGAGAAAGAGGAAAGAA AAGGAAGGCCAAGGGGGGAAAAAGCCGGAAGAAGAACACCGG A GAGAAGAACGGCGGGAGAAAAAAAAAACCGAGGAGAAACAG
 CAAAAAAACCCCAGGGAGGGAGGAGGGAGGGAAAAAAGGGGG

C CAAGGGAGGAAACAAGAAGAGAAGGAGAAAGAGAAGGAAGA C C A A G G G A C C T T G G G GCCCCAAGGCCAAGGGGAAGEAGAAGA $G G C G G G A C A G A G G A G G T T A A G G A G A G A A A A C C C G G A G A A A G G$ G G G G G G G A A C A G G G G G G G A A A A G G G G G G A A G G G A G G G G A A A $G$ AAGGGAAACCGAGGAGGAGGGAAGAGAGAAGAAAAGAACCGG G G C C T T G G G G G G A G G G A A G G G G A A A A A A A A G G A A G G A A A A A A
 A A G GAAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G A A G G C A A G C A G G A G G C G G G G A A A G A G G G$ G G A A G GCCAGGGGAGCGAAAAAGGAAAAAAGGAAGGGGAAAA T TAAGGAGAAACAAAGAGGGGGGGAAGAGGAAGGAACCAAAA A GAAAAGGGGCCAAGGAAAAAACCAACCAAAAAGGAAGCATT A G A A A TAGGCAAGCAGAGGGAAAAGGGAAGGAAAAGAAAAAA A A G G G G G G G G A A A GAAA A A A A G GAGGGGGCAGGAAAAA GACAA $G G A A A G C A A G A A G A A G G G G G G A G G A A A A A A A G G G G A G G A A A A$
 CAGGGGGGAAGGGGCCAAAAGGGGAGGAGGAAGAAACCCGGG GAAAAAAAGGGGGGGGGGCCGGGGAAGGGGCCGCCCAAGGBA G GAACCAAAAGGAAGGCCGAAAGGACCAAAAAAAAAAAGGAG $G G G G A A G G G G A A G G G G C C A A G G A A A A A A G G G G G G G G A A A A A A$ GAGAAAAAGGAAGAGAAAAGAAGGGGGAGGAGAAATAAAAAG G G G GAAAAGAGACCAAAAAAGGAAAAAACCACAAACGGAAGG A A A A G G GAGAAGGGAGCAGGCCAGCCGAGAGAAAAAAGAGGG G G G G G GCCAA G GCACC G G GAGGAAAAAACCCAGAACGGAGGG GAAACCGAAACCGGGGGGAGGAAGAGGAGGGGGGTAAAAAAA
 AAGGAAAAGGGGAAAAGAGAAGAGAAAGAAAAGGGGAAAAAA A G G G G GAA $A \operatorname{GA} C A A A G A A A A G G A A A A A G A A A A A G G A G A A A G A$ A GAAA $A$ AAA A $\mathrm{A} C A A G G G C A A A C A G A T A A A A A A A A G A A G G G G G C$ G G G G G GAACCGAAAAAAAAAGGAATTTAAAAAGGAGAACAAA $G G C C A G A G G A G G G G A G G A G G A G G G G G G G A A A G A A A A C C A G A G$ ACTTAAAAAAGAAAGGGAGGGAGAAAGGCCAGGGGAAAAAAC CAGGAAGAAAGGGGAAGGCCACAGGGGAGGGGAAGGGGAAGA G G GAGAAAGACCAAGGGAGGAGAGGAGGCCAAGGGAAGACAG A A A A A A A A A G GAGGGGAAACGGAAAGAGCCAGAGAAAAGGAG A G A A A G G A A A A G GCACAGGGAACCAAAAAACCCCGGAACAAA $G G G G G A G G A A G A A G G A A G A G G G T T A A A A G G A G A G A G A A A G A G$ $G G C C A A A A G G A A A A G G G G G G A A G G C C G G G G G G A A G G A A G A A A$ A A G G G G G G A A G GAA A A A A C C G GACAAGAAGGGGGGGGGTTAA C C G G A A A A C C G GAA A G G GCCGGGGAAAGACAAAGAAGAAAAA
 AAAAGGAGCCGGGAGGAGGGGGCCAAAAGGAAAAGGGGAAGB
 CCGAGGAAAAGGGGGGAACCAAGGAAAAGAGAAAAAGACAAA A GAGAAGGAACCAAACGGAAGAAGAAAGAGAAGGAAGAGAAA G G G G G A C C A A A A G G G G A A G G C C A G G G G A A CA A A GA G G G C C G A G G G G A G G A A G G GA $\operatorname{A} A A A A A G G A A G A A G G G G G A A A G A A G G A C A A$ $A \subset A G G G G A A G A A A G A G G A A A G G G G G A G G G G G G A A A G G A A A A G$ G G G G A A G G A G G GCC G G A A A A G G A G G G G G G G A G A G G G A G A G A C G GCCGGGAGGAGCCGGTTAAGAACAAAGGAGGGAAAAAACAG A G G G A G G G A G C C A A G G G A A GAGGGAAGGAAAGAAAAAAA AAAA ACGGGGAAGGGAAGAGGAGAAAGGCCAGAAGAGAGACCGGAA G G G GCCGGAACCAAAGGGAGCCAACCGAAGGGGGGGGGAGAG A G A G G G A C G G A A A G A A G G G G A G A A A G G A C C G A A A G G G G A A A $G$ G GCCAGAAGGGGAAAAGGATGGAGGACCGAGGGGGGAGAACC G G G G G GCCCCAAACGGCAAAAGGGAACAAGGGGGAGGAAAAC TACAAACCCCAGAGGACCAACAGGCCGGAAGAGGGGAGAACA AAGAAAAGCACCAGGAAGAAGGAAAAGGAAAACCCCGAAAAG $G G G C A G A A G A G G A C G A G A G G G G G A G G G G G G A A A C G G C A A A G A$ $C C G G G G G G G G C A C A A A A A A C A A G G A A A G A A A G A A G G G G G G G G$

AACCGACAGAGGAAGAAGAAAAAAGGAAGGAAAAGGAGCCGG CACCAAGGAGAGGGGGGAGGAAAGAGGGGACCGAACAGAAAA $G G A A A G G A A A G G A A A C G G T T A A A A G A G G A G A G A A A A A G A A A A$ G GAA A G G G G G G G GAACGAGGAAAGAAGAAGAAAAGGGGGCGG GACCAAAAGAAGAGAGAGAAGGGAGGGGAAAAGGGGCAAACAA A GCCAGGACAGGAAAAGGAAAGCCCCGGAGGGAGAGGAAAAG
 AAGGGGCCCCAAAGGAGAAAGACGAGAGAAGGGGGAAAGGAG A GAGAAAAGGGGAAGGGAAAAGAGAGAAGAGAGGCCGACAAG GAAGAAAGGGAAAAAGAAGGAAGGGAGGAGCAGGGGAAGAAA AACACAGGGAAAGAGGAAAAAAGAGGGGGGAAAAAAGGCCGG T T T T C C G G A A C C A G G G A A A A G G A A G G A A A T G GA G G G A G A G A G A A G G G G G G GAA $A \operatorname{GGGGGGGCCGGGAGAGAGACCGAAAAGAGAA}$ G G A A G GAGAGGGGGGGAGCGAGAAAAGGACAAGGAAAGAAAG AAAAGGAAGAAACCGGGAAAGAAAAGGGGGAGAGAAAAGGGG AAACGGGGAAAAAAGGAGGGAAGGGGAGAAACGAAAAGGBAA G G A A A A A G G G A GAA $A \operatorname{G} \operatorname{A} A A G G A A G G A A A A G G G G C A A G G A A A G A$ A A A GAAGGGGGGGGCCCCGGAGGAAAAGGAAGACAAAGAGCA A G G G G GAGGGGGCCAAAAAAGAAGAAAAGGGAAAAAGGAAGAG ACACGGGGACGGAAAGAGGGGGGGAAACGGAAGAGAAGCAAA G G G G GAGGGGCACCAGAAAAGGAGAAAAGGGGGACCAAGGCC $C \subset G G A A A C A A G G A A A G C A G G G G G G G G A G G A A A A G G A G G A G A A$
 C CAGGGAAAGGACCCCGAGAGGAGAGGAGGAAGACCGGACAG ACAGATGAAAGAAAACGGGAAAGACAGGAAGGGGCCATAGAG G GAGGAAGGGAGGGAAAGCCGAAGCCAGGAGAAATTAAAAAA G GAAGGAAAGAGGAAAAAGAAAAGGAGAGAGAAGAACACCCC AAAACCGAAAGAGGAAGAGGAAGAAAAAGGGACCAGGGAAGA A A A A A ACAAAA A A A A A A AA GGGACCCCAGGCGAGGGGAGAAA $G G A G A A G G G G A A A C A G A A C A A A A G A A A A A C A A A A A A A G C C G G$ $C \subset G A G A A G G G G G G A G G A G A A G G G G G A G A C A A G A A G G A A G A A A$ AAGGGGGAGGAAACCAGAGGAAGGAAAAGGGGAGGAGAAAAG

 GATTGAGGGGCCAGAGAAAACCAGAGAAAAGGGGGGGGGGAG A GCCAGGGCCAAAAAAAAAGGGGGAGGAGAGAGGAAGGGGCA
 $C \subset C C A A C C G A A G G A A G G A A A G A T A A G A G A A A A G G A G G G A G A G$
 A G G GCCCCGGGGAAGGAAAAACAGGAAAGAGAGAGGGGAGAA $G G A G A G A G G A A G G A G G G G G G A A G A G G A A G G G G G A C A C C A G A A$
 G GAAAAGGGAAAGGGGGGGGAAGGAGAAGGGGAAGGGBAAAA
 G GAACCGAAAAACAAGGGCCCCGGAAAAGGAAGGAAAAAGGG A G GA $\operatorname{G} G A \operatorname{A} A C G A A G A G C A A A T T G G A A G G G A G A G G A A A A G G C A$ GACAGAGGAAAGGGAGCACCGACAGAAAGGCCAAGGC
$C G A G G G G A A A A A A C C G G G G G G A G G G A A T A G G A A G A A A A A G G$ G GAGGACCGGGAAGAGAAGGGGAAGGAAGGAAACAGAAAGAA G GAA A G G G A A G GAA A AT TAAAAAAAGGAAGGAAAGAAA GAAA CAGAAAGGGGGAGAATAACCAGGGAAGACCAAGGGAAGAACA G G G G A A A A CCAAACAA G GAAAAAAAAGGGGAGAAG GAAAAGAG $G G C C A A G A T A A G G A G G G A G G A A A A G G A G A G G G G A G A A G A G A G$ G GAGGGGAGCAAACAACCGGAAAGGGAAAGAAGAAAGGAGAG GAGAGGGGGGGGGGAAGAGAGGACAAAAGGAAAAAAGAAAGA G GAAGAGGGGAAGGCCAAGAAAGGCCGGAAAAAAGGGAGGCC G G A A A A G G A A A A A A A A A A G GAGGAAGGGAAACAA GAAAAAAA AACCCAACAAAGAAAAGGAAGGAACCAAGGAAGBAAGGABAA $A G G A C A G G G A C C A A G G G G C C G A T A G A A A G G G G C C A A G A G G A A$

A A A A A A G A A G G A A GAAGAAGGGGGGGCCGGAGAAGGGGAACC AA A GAAGGGGAAAAAAAAAAAAGGAAAAGGGACCAGAAAAGG GAACGGAAGAGAGAAACCGGGAAGAAGGAAGAGAGGGAAAAC A GAAAAAAAGGGGGCCGGAGGAGGAAAAAAGAAGGAAAGGAG G G G G G GAGGACCAGAAGGGGGAAAAAAACCAAGGGGGAGAAA A G G G A GAGAAGGGGAGAAAACAGGCCAGGAGGGGTTAGAGAA A A A A A G A G A G A G A A G G G G G G G A G G G G G G A A A A G G A G G G A G A $G$ G G G G G G G GAGCACCGGGAAAGGGAAGGGAAAACAGGCAAAGA G A A A A A G A G A A A A A A A A A G GAAAA A G G G G G G G G G G G G G A G A G $C \subset A G C C A G G G A A G G G G A A C A T A A A G G A G A G G G A A A C G G A A A A$ G GCAAAACAAGAAAGGAAAAGGCAGGAAAGGGTTAAAAAAAA A A G G G A A A GACAAACAAATAAAGGGGAAGGAACAGAAAAAAA A A A A G G A A G G G G G G A A G G G G A A A A A G G G A GAG GA G A A C G A A $G$ C CAA $A \operatorname{GAA} \mathrm{~A}$ GAGGGAAGGACACAAGGGGGAGCAAAAGGAAAA AACCGAGGGAAAGGGAGGAACCAGGGAACCAAAAAGGGGGAG G G G GAAAAAGAGAGAGAAGGAAGGAGAACACAGAAGAGAGGG GAA A A C G G G G G G G G G G G G A A G G C A A C G G GAAA A G G GA G A G C C AA $A \operatorname{GGG} \operatorname{G} A \mathrm{~A} A A A A A C C A A G G A G A A G G A A G A A A G G A A A A G G G G$ AAAAGAAAGGGAGAGGAAAGAAACGGCCCGGGGAGAAGGGGG GAA A G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} G A A A A A A G G G A A G G C C G G A A A A A G G G G G G G$ AAGGGGGGAAGGCCAAGGGGAAAAAAAAAAGGGGGGAAGGGG
 A G A A A A G G A A A A A G A G G A G A A A G G G G CAA G GAACA A A GA A A C A CAACCCCCCAAGGAAGAGGAAGGAAGAAAAAAGGAAAGGGG G GCC G A G A A GCA $\mathcal{A} G A G G A C C C C G G G G A A A C A G A G G G G A A A A A$
 A G G GAAAGCCGAGGGGACGGAGGGACAGGGGGGAAGAAAAGA A GAGAGAAGAGGGGGGAAGGCCAACCAAGGAAAAAAGGAABA G G G G G G G G G G G G A G G G G A G A G A A A G A A G A A G G G A G G G G G A G A GAGAAAGGGAGGAGGGAAGGAGAAAAGCAGAAAAGGGGGGGG GAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} G A A \operatorname{A} G A A A C A A G A G G A G A A G A A G G G G G$ AACCAGCAGAAAACGGAGAAGGAAGGAAAACCAACCAAGGAA A A G G G GAAAAGGGGGGCCGGGGGGAAGGAAAACGGGAAAACC A A A A A A A A C C A A G G G G A A G GCCCC G GCCGGAA G GAA G G G G A A $G G A A A A G G G G A A G G A A A A G G G G A A C C G G G G A A A A A A G G G G G G$ C C A A G G G G A A A A G G G G A A G GAA $A \operatorname{GGGGGGAAGGAAAAAAAAGG}$ AACCGGAAGGGGGGGGAAGGCCGGGGAAAAAAAAGGAAAAAA G GAAAACCGGAAAAGGGGCCAAGGAGGGAAGGGGGGAAAAAAA G G A A G GCCTTGGCCCCGGCCGGAAGGGGAAAAGGGGGGAGAA G G G G A A C C G G G G A A A A G G A A G G A A A A G G G GAA A C G G G G G G A A AAGGCCGGGGAAGGAAAAAAGGGGAGACCCAAAAGGGGCCAA A A G G G A G G A C G A G G G A A A G G A A A A G G G A G G G G G G A A G G G G A A AAGGAAACAAGGAGGGGGGAGAGGGGACACAAAAAAAAAAAA A A A A C CAA A G G GAAGGAAAAAGGAGGAAAGAACCAAAAAAAA G G G C A G G G G G A A A A A A G G A A A C A A G GAGAGGAGGTTGGTTAA G G G G A G G A G G G A G G A G G G G G G G A A $\mathcal{A} G G G T A G A A A G G A A A G A A$ C C G G G G GACCAGAGAAGGAGGGAAAGAGAAAGGAAAGAGGGG A A G G G G G G A A G GA $\operatorname{A} G A G G G G G G A A A A A A C C A A G G T T A A A C A A$ C C A A A A G GAGGAAAGAAACCAAGGGAAAGAGGGGAAAAAAGA A A C C A A C C C CAA A A G G G GAGCCCCAAAAGGGGAACCAACAAA G G G G G A A C A G A G A A A A A G G G C C A C G G GACA GAG GAA G G C C C C A A A A A A A G GAACAAAAAAAAGGGGAGAGAAAACCGGGGAAAA G G G G A A G G A G G A C C G G C C A A A G A C G G A A G G A G A A A G A A A A A G GGACGAAGGGGGGAGAGGCAAAAGAGAAGGGAGAGACAGGGG AAAGGAGAGGGGCCCCAAAAAAAAAAGGAAAAAACCGGGGGG A G G G G G A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G G A A A A A A A G G A A G G$ G G G G A A G GCCAAGGAAAAGGGGGGGGCCCCAAGGCCGAAAAA G GCCGGAAAAAAGGGGAAAAGGGGAAAAAAGGGGAAGGACAA AAGGGGCCAAAACCAAGGGGAAAAAACCGGAAGGCAAAGGCC

G G G GAA A GAAGGGGAAGGAAGGGGAAGGGGGGAAGGCAAAAA AAAACCCCCCAAAAGGGGGGGGCCAAGGCCAAGGAAAAGGGG G GAAAAGGGGAAGGAGGGAAAAAAAAAACCAAGGAAAACAAA G G G G G G G G A A G GAAAAGGCCAAGGGGCCAACCAAAAAAGGGG AACCCCGGAAAAAAAAAAAAAAAAGGAACCGGGAGAAGAGGG A A A G A A A ACCAAAAAAGGAGGGCCAAGGAAAAAAGGGGCCBA G G G G A G A A G A A G G G A A G A A G A G G G G G A C G G CA $\mathcal{A} G G G G G G G G G$ AAGGGGAAGGGGGGAAAAGGGAGGCCCCAGGAGGGAAAGGGG GGCCGGCCAAAAACGGAAGGGAAAGGAACCAAGAAAAGAAAA GAGGGAGAAAAAGGGAGGCCGAAAGGAAAATACCGGAAAAGG C C T TA G GAAGACGGGGTTAAAACAGGGAAGGGAAAAGACA GA G GAAAACCAAAACCGGGGAAAACCGAAAAGGGGGAAGGAGAA G G G G A A A A A G G G G A G A A G A GA G G G A A A A A A G G T T A G G G A G G A G G G G G G G G A A A A G GAA $A \operatorname{ACC} C \subset C G A G A A G G A A C G G G A A A A G G G$
 AGCCCCAGGAGGGACCAGCAAAAGAAGGGGAGGAGGAAGAAA G GCC $C$ G G G G G G G G G G G G G A A G G A A A G C A C C T A C A G G G A G G A A G G G G G GCAAC GAGAGGGGAAAAAAGACCAAGGACTTGGAAGA $A C G G A A A A G G A G A G A A G G A A C G A A G G A A A A G G A C G G G G A G A A$ A A A A G GAA A G A A G A G G C C G G A A G G G G G G G G G G A A A A A A G G A A C CAGCAAAAAGGAAGGAAAAAACACAGAAGGGAAGGAAAAGA GAAGAGAAGGCCGGGAGGGAAAAGCCAAGAGGACAAAGGGAG GAAGAAGGGGAGGAAGAGACGGAAGGGGAAAAGGCAGGAAAA $G G A A A G A G G A G A A A A A G G A G A A A G A G A A G G A A G G A G G G A G A G$ $G G A A A A G G A G G G A A A A A A G G A A G A A A A A A G G G A G G A G G A A G G$ G GAGCCCAGAACAAAAGGAAGGGGAAGAGAGGGGGGGGGGGA AGGGCCGGGGAGACGAACCCAACCAGACAGACAAGAGGGGAG G G A G A A C C G G A A G G C C G A G A A C G G G G A G G GCC G G T T G G G A C C A G G G G G G G C C G G G A A G G G A A G G C C G GC CACCCCAA G G GACC C C C A GACAAAAGGGGGGGGGGGGGGAAAACCGGAGGAAGAGAA G G G A A G G G GAAA $A \operatorname{A}$ GAAAAAACCGGCAAGAAGGGAAAAGGGGG AAGGGGCAGAGAAGAGAGAGGAAGAAAGGGAAGAAGAAGGGG G GCAGCAGGGCCAACCAAAGGGAAAAAAGGGGGAGGAAGGGG
 G GCACCAGGAGAAGGATAGGGGAACCGGAAGGGGGAGGAAGA A A A A A A G G A G A A A A G A G GAGGGGAAAAGAGTTCCGGGAAA GA GAAGCCAAAAAACCGAAAGGAAGAGGAAGGACAGAACCBGAC AA GACAAA GAA GCGAAGAAGAAACGGAAACAGAAG GAAC GTT A A A G A A A G A A G G A A C CAA $A \operatorname{AGGGGGAACAGAAGGAGGGAGGGG}$ A G G G G G G G A GCCTAGAATAAAAAAGGCCAGGAAGGACAAGAA $C \subset A A G A A G T T C A G A A G A A G G A A A A A A G G A A G A C C G G A G A G G A$ GA $\operatorname{G} \boldsymbol{G} G \mathrm{G}$ GAAAAAAGAGAAAGGGGCAGGAGGAGGGGGGAAAAAA G G G GCCAAAAAGGAAAGGGGGGAAGGTTGGCGGGAAGGGGGA G GAACCACAGACAGGAAGGAAGGAGAGGGGAGCCGGAGAAGG GAAAAGACCAAGCCGAAAAAGGGGAGAACCGGAAAAGGAAAA A A G G G A G G A A $\mathcal{A} A G G G G G A A A A G G G G G G G A A A A G G A G G A A A B A$

G GACGCCAGAAGGGAAGGGAGGGGGAGGGAAAAGEAAAAGG AAAGACGGAGGGAGCCGGGACAAGGGGGCCGGAAAAGAAGAG A A A A C A A A T T G A G A GAAA $A \operatorname{AGGGGGGGGGGGCCAAAAGAAGAA}$ A GACAAAACAAAGGCCAAATGGAACCGAAGAGAAGGGGGGGG AA $\operatorname{A} G A A G G G G A A A A C C C C G G A A A A A A G G G G G G G G A A A A A A A A$ G G G G G G G G A A A A A A $\mathcal{A} G A G G G A A A A A A G G A A A G G G G G G G A A A A$ $G G C C C A G G A G A G A C G G C A G A A C G G G A G G A G G A G G A A A G A A G G$ AAGGGGAAGAAACCAAGAAACCAAAAAAAAACGGAAGAAAGG G G A A A A T T G GAGA G GAA A A CA GAAAGAAACAAGGGAAAGGGG CCAACGAAGGGGAAGAAAGGAAGGAAGGAGAAGGAACCAGAA G G A A G A A G A ACCAACCAAAAAAAAAAAGGAGAAAGAAGGAAA AAGGAAAGGCGGAACCAAGGAAGGGGACAAAAAGGAAAAAGG

 G G G G A A A A G GAA $A \operatorname{A} \boldsymbol{A} A A A G G G G G A A A A G G A A A A A A G A A G A A G G$ C GAA A G G G G GCAAGGGAGGAGAGAAGAGGCAAGGGGGGGGGA G GAGAACCAAGGGGGAGGAGGGAAGGCCAGCAGGGGAAAGGG AACCGGAGAACAGGAAGACGAAAGAAAAAAGAAGAAGGAAAA G G G G A A A A C C G G A A G G A A A G G GAA A GCCAGAGAGGGGGACAA G G G G G G G G G GAGGGGGAAGGAGAAAAAAACCCAAAGAA GGGG
 GAGGAAAGGAGGGAGAGAAAAAGGGACCAAGGGAACCAGGAC
 G G G A C C G G A A A A G G GAGGTAGAGGGGAAGACCAGGAAAAAGG A G G G A G A A G G A A A A A A A A G GAGAAGGGGCAAAAAAAAA AA A A A $G G G A A A G C G G C C C A A A G G A A A G A A A A C A A A G A A A A G A G A A G G$ G G GAA A A A G G G G GAGACAGGAGGGCCAAGGAAAAAAAACCAA GAAAAGCCCCGGAAGGTTAACCAACAGGGGGGAAAAAGACAA $G G C C G G A A A A G G G G A C A A A G G A G G G G A G A A G A G A G A A G G G G G$ G G GAGGCCCAGAAGAGAGGAAGGGAGAAACGGGGAAAGAAAA G GAAAAGAGGGGGGGAAACCAAAAGAAAAAGAAGCCAAAAAT GCAGGAACAACCGGGGGGAAGGAAGGGGAAGGGGAAGGCCCC AGGGGAGGGAAGGAGGAGAAAAAAAAAACCAAAAGAAAAAGG CAACGGAAAGGGGGGGAAGGAAAAAAGGAAAGAAGGAAGAAA G GAACACAGGAGGAAAAACCCCCCAGAAAAAAGAGGCCAGGG A A C C G G G A G G A A G G A G G G G G G G A A G G A A A G G G G G A A A A G G A A AAAAGGGGCCACGGCCAGTTAAGGAAGGAACCAGAAAACCGA GAGGCAGGGGCCGGGGTTAGGAAGGGAAGAGAGGGGGGGGAG AAAAGGGGCCAACCGGAAAAGGGAGGGAGGGGAAGGATGGCC GA G G A A G G A C T T A A A A A A A A G G A G A G G G A A G G G A G G A G A G A $G$ G G A A A A A GCCAAGGAAGAACAGAGGGGGCAAAAAGGAAAAGG CAGGGGAAAAAGCCGAGGGGGGAGGAAAAACCGGAACAGGCC AA G GAAGGCCAAAAAGAGAAAACCCCAAAGGGGGAAGAAAAA G GAGACGGAAGGGGAAAAGGAAAGGGGAAACCGAGGAAGAAA GAGGGGAACAAGGGAAAAGGGGGGCCGGAGGAGAAAGGCCGG CCGGGGGGCCAGAAGGGAACGACAGGAAAAACACAAAGACAA A A A A A A G A A A G G A A A A A A A G GACC G GAGAGGAGAG GA GAACA
 GAGGGGAAAAGGCCAAAGGGTAAAAGCCAAGAAAGGGGAAGA A A G G G A A G A A G G G G G GCGGGAACCCATTGCGAGAAC GAAG GA $A G C C A A A A A A G G A A G G G G G G A A G G A A G G G G A A G A A G C C A G A A$ GGCCAAAAAAAGGGAAAAAAGAAAAGAGGAAGGAATAGAGBA C CAATTGGAACCAAAAGGGGAAGAGGAGGAGGCAA GAGGGGG GAAGGAAGAAAACCGGAGAAAAGGGAAAAGAAAGAAACAAAA GAGAAAGGAAGGGGGAGAGGGAGAGGAACCGAGGGGACAAAA GACAAGGGGGGGGGCCAAAAAAAACCAAAAGGAAAAGAGAAG GAGGAAGGAAAGAGAGGGAAGAAACCAAGGCAGGGAAAACCC GAAAGAAAGAGGGGAAAACCAGGAAAAAGGAAAGAACCCCBA GAGAGAAGAAGGGGAAGAAACCAAAACCAAGAAACCAAGGGG G G G GCCGGGGGGAAAAAAGGCCGGCGGGAGAACCCCAAGAAA C C A A A A G GAACCGGGGAAAAAAGAAGAGGGAGAGAAAA GAAA GACCGGGGAAAAAAAAAAGAGAGAGGGGACAGGGCCCCACAA G G G G A A A A G G G G G G G G G G A A G G G G A A G G T T A A G G A A C C G G A A A GAA A G G G A G A A A A A A G G G GAA A G A A G GAA A G GAA A A G G G A G A A C C G G G G GAGGAGCAAAAGGGAAAAGAAAGAGGGAAAAGAG G GAAAAAAGGAACCGAGGAAGGGGAACCAAGGCCGGAAAAAG GAGACAGAAAGAAAGAAAGGAAAAACAAAGAAAAAGGBAAAA A A A A A A A A G G A A A A G A A A A A A A C CACCC G GAAAACCGGAAG G G G G G G G A A G A A A GAAAA A A GA GAA A G A A G G G GA GAA A A GA G G G G A G GAGGGGCAACCAAGAAGACCGGAAGGAAGBAAAAAGGG AAAGAGCCTTGGGAAGAAAGAAAAGGCCAACCGGAGGAGGGA

AAAAAGGGAAAGGAGAAAGGAAAAAGCCAAAGAAAAAAAACC GAGGGGACGGGGAGGGAAAACCGGCCGGGGAAAAAAAAGAAC $A C G G A G A G A G G A A G G G A A A A G G G G C C C C A A G G G G C C G A A A G A$ GAGCAACCGGGAGAGAAGGGAAGGAAGAGAAACCAAAAAAGG A A G A A GAA A A G GAGGGGGCAGAGGAGGGGGCCAAAAACGAGG A A A G G A G A G GCCGGGGAAGGAAAATAGAGGAGGGCCGGAGAA AA $A \operatorname{GG} A A A A A A A G A G G G A A C C G G G G G A G G G G A A A A A A G A A A A G$ $A G C C G G A A G G C C A G A G G A A A G G G G A A A A A A A A A A C C A A G G G G$ AACCGGGGGGAAAAGGAGGAGAAAAAAACACAAAAAAAGGAA AAAGAAGGCCAAAACCGGAATAGGCCGGAAAAACAAGGGGAA $C \subset A G A C A G G A A G G A G G G G G G G G A A G G G G G G G G C C A A G G G G C C$ GAAACCAAGAGAACCAAGAGAAAGAAAGAAGGCCCCGAGAAA
 G G G G A A G G GAGAGGAAGGGGGAAAAACAGGGGAAGAAAACAG GACCGGAACCGGTTTTAGATACAGAAAATACCCAAAGGAAAA A GCCGGGAAGAAAAGGCCGAAAGAGGAGACCAAAGGAAGGGG G GAGAAAGAACAGGGGGGAAGGAGAGAACCCGAGGGAAAAGG AA GAAAACCCAAAGGAGGAAGGGACCAAAAAGAAACGGGGGA A A G G GAG GAGGAGGAAGACACAAAAGAAAAGGGGGAAAGGGG G G G A A A A A G G G G A A A A A C C C G G GAGGAAGGACAA G GAA G GA G AGGGGCAGGGAGAAGGAACCACGGAGGGACGGAAGACAAAGAA AAAAAAGGAGGGAAAACCAAGGGGCCGAGGAAAACCAGAGGG ACAGCCGGAAACAGGAGAAGAAGGGGGGCCAGGAGGACAAGB
 G G A A T TA $A \operatorname{G} G A A G G A A A A G A A G G G A G C C G G C C A A A A G A G G A A$ A A A A A A A A A T G GACAAAAAGGAGGAAAAGGGGAAAGAGCCGG AAAA $A \operatorname{A} A A A G A A A A A A C C G G A A G G A A G A G G G G G G A A A G G G G G$
 A A A A C CAAACAAGGAAGGAAGGGGAAGGAAGGGGAAGGGGGG T TAAGGCAGGAAGGAAAGAGAGAAAACAGGAGAAGCGGAGAG A A A A G A A C C C G G C C G G A GA A G G G G G GAGGGAACC G GA G G A A G GAAAAGGGAGGGGAGGGGGGGGAGGGGGAGGGGAACCGAAGA G GCCCCAGGGGAGAACGGCCGAAAAGCCGGGAAGAAGGGGGG A A A A G G A A A A G G G G G G G G A A C C G G G G A A G A A A A G A G A A A G G G $G G A A G A A A G A G G G A A A A A A A A A A A G G A G G G A A A A A A A A A G G G$ $G G G G A C G A A A A G A G A A G A G A A A G G G G G A C C G G A A A G C C A A G G$ G G A A A A A A A A C C G GAAGGGGGGGGCCGAAACCGGAAAAAA GA G G G GAGAA $A \operatorname{AG} \operatorname{A} A A A G G G G G G A A A A G G A A G G G G G A A A G A G G C C$ T T A G G A A A G G A A A A A G A A A G G G A A A G G G A G A G G G G A C C A A G G G GAA A GCCGCGGCCGACGCCAGAGGGCAGGAAGGGGCCAGAA AA GAAAGAAAGGGGCAACGGGAAGGGAGGGAAGGAAGGAAAG A A GACCAGGAACAGAAGGAAAACACAAGGGAAAA GGGGGGGAA G GAGCCAAAAGAAAAAAAGGAAAGGAGGAAAGGGACGGAGGA A A GAGGAAAAAAGGAAGGAAGGGAGGCCGGAGAAGGCCAAAG G G G G A C A A G G A G G G C C A G G A A C G A G G G G G G A A G G G A G G G G A A GA $A$ A A A $A$ A $\mathcal{A} G G G A G G A G G G G G G A G G G A A A G G G A G A A A A A A C A$ G G GAGGGAAAGGAGGAGGCAAAGGAACCCCCCGGAAA
GCCGGAGAAAAGGAAAACAGAGAGGCAAGAGGAGGGACACG AAAGCAGGCCGGAGAGGGAAAAGGAAAAGACCGGAGCAAGAA
 $G G A A A A C C A G G G A A A G C C A A A A G G A G G A C C G G G A A A A G A C A T$ C CAAAAGAGAGGGGGGCCAAAAAGAGGACCGGCAGACGAACAC G GAAGGAGAACCGAAGAAAGAAAGCCGAAGAAGAACGGAGAA GATAGGGGGAGGGGGGCCTAAGGGAGGAAAGGAGGGAAGGGG G GAGGAAACAAAGACCACCCGGAAGGACAGAAAAAGGGGGAG A A A A A A A G A G A GTTAA G G A A A A GAAAAAAAAAGGGGGGAAGAG C CAAAAAATTGGCCGGCAGGAAGGAAAAAAGGGGGGGGAAAA G G G G G G A A A A G G G G G G A A G G C C A A A A A A A A G G A A A G A A A C A A AAGAGGGGGGAAGGAAAAAGGAAAGAGAGGGGAGAAAAAGAG

GGAACCCCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAAAAG G G GA $\operatorname{G} A \mathrm{~A}$ G GACCAGGGAGAAAAGGGGAAGGAGAACCAGAAGA $G G C A A A A A T T A C A G A G G G A A A G G A A G G A A G G A G G A G C C A A G A$ GAAAGGGGGGAAGGAAGCCCGAGACAGAGGGGAACCAAAAGA GGCCAAAAAAAGAAGGAAGGAGGGAAAAAAAACCGGAAAAGA A A G G G G A A A A G G G G A G G G A C A A A G G G A G A A A A G G A A A GAA C C G G G G A GAA A GCAGAGAGGAGGAAAAGCCAAAGAAAAGGACCC AAGACAGAAGGAGGAAAAGGCCGGGGAAAAGGGAGGGCAGAC $G G A A C C C C A A A A G G A G A G A A G A G G G G A A G G T A G G A A G G A A G B$ G G G GAGAAAAAAGGGAGGAACCGGGGGGGGGGAGGAAAAACC A A A A G A GAGGAAAGAAAAGGAGGGGGAAGGGGAAAAAACAGG CAGGAGGGAAGGGGGGCAGGGGAGCAAGAAGGGAAGGGGGGG G GCCGAGGGGAAAAAAAAGGCAGAAAAAAGAGAGGGAGAC GA A GACAGCAGGGAGAAGGAGAAGGAAGAAAAACACGAAGAAGA AA $A G A A G G G G A A A A A A G G G G G G G G G G C C A A A C G G A G C C G B A A$ A GAAGGGAGACCCAAGAAGGAAAAGAAAAAAAAGAAAGAGGG GAGGAACCAGCAGGAGGAAACCGGAAAAGGGGCCGGCCACAA A GAA A G G G GAA $A \operatorname{GG} \operatorname{GAAAAAAAGGAGACCCAAAAGGGGAAAACC}$ AACCGGCCAAGGGGGGAAAAGGCCGGAAAAGGAAAAGGAAAA C CAGGGACAAGGGGGGAAAAACGGGGGGAAAAGGAAAAAAGAG GAA A G G G GAAA $A \subset C A A G G A G A G G G G G G G A A G A G A A C G G T T A A$ A G G GAAAACAAGGGCCGGAGCCAGGGGGCAAGCAAGACAAAG G GAAGGCCAGGAGGAAGGGGAAGACACAAGCAGAGGCAGAAG ACGGCCAGAAAAAGGGAGGGGGAAAAGGAAGGAAAAGAAACC
 $C C G G A A A A G G A A A A G G G G A A C C A A G G A A A A A A C C G G A A G G G G$ ACAAAGGAGGAGAGAGACAGAAGGGGAGACGGAGAGAAGAAA A A GAGAGAAGAGGGAAAAGGGAAGAGAGAGAGAAGAAAAAAA A GAA A GCCCCCCGGGGACGAAGGGGAAGAGAAGGGAAAGGAG GAACAAAAACAAAGAAAGAGCCGGAAAGAGAGAGGAGGAAAG G G G A A GCCAAGAAAGATAAGGGAAAACAGGGGAGAGCABAAA G G G G GAA $\operatorname{A}$ GAGGAAAGAAAAAGGGAGGAGGAGGGAAAAAAAC A G G A A G C A G A G G G G G G G GA $A C C A G A G G G G G A G G G G G A G A G A A$ GAGGAGAAGGAAGGGGGAAGAGAAGGAAAAGGGGCAGAAGAA GAAGGAGGGAGCGGGGGAGGGAAGAGAAAGAAAGGAAGAGCC C C C GAGAAGGAGCCGACCAGGGAGGAAAAAGGAAGGGGAGAA GAGGGAAACCGGGGCCAAGAAGAAAACCAACAGGGGGAGAAA AAGGAACCAGGGAGACGGAAAAGGAACCAAAAGGGGAAAAAA C C G G G G A C G A A G G G G G A GAA A A GACCGGGGGGA GAA GA G G A A GAGGAGGAAACCAACCGGAGACGGGGAATTGAGGAAAAGGAA AAGGCCAACCAAGGAACCCCAAGGGGGAGGGAAAGAAAAAGG C CAAAACCAAGGAGAGAAAAAAAAGGGGAAGAGAAGGCACCC G GACCAGGCCAGGAGAGGGGGGAGCCACCCGAAGGAGGAAGG G G G G G G A A G G A A A A G G G G G GCCAAGGAAAGCCAGGACAA GAG G G G A G G G G G G A G G G C C G G G G G G A A C C A A A G A C G G G G G G C C G G
 $G C A A A A C C A A G G G A A A A A A C A G G G G G G A C C G A C A A G A A G G A G$ G G GAGGAAGGAAGGCCGAAAAGAGGGAAAAAAGGGCAAGGGA G G GAAA A G G G G G GA G GAAGGACTAAGAGCCAAGGGGAGAAGG A A A A C A A GCACAAAAAAAACGGCCAGGGGAGAGAAAAGGGGG GAGGGATXGGGGGAAGGGGAAGAAGAGAGGAAGGGGCAAAAA G GAAAGGGAGGACCAAGGGGCAGGGAAGGGGGAAAAGGAAAA A A A A G G A A A A A A G G A A G G A A C C G G A A G G A A A A A A A A G G A A G G AAGGCCGGGGAAAAGGGGAAGGGGGGAAAAAAAAAAAAGGAA G G G G A A G A G G C A G G A G A A G G G G G G G G A G A G G G G G A A A A A G G G A A G G G G A A A A A G G GAGAGGGCCAACCAAGGGAAGAGAAACAA
 A A G G G A G G A G G GCAG GAGAGC CAAAAAACAGAGAAAA GAGAA GACAGAAAAGGACAGGGGAGAGGAGGAGAAAGGGAGGGAAAC

A GAACCCAAGAGGGAAAAGAAAAGAGAGAGAGGGGAAAAACC GAGAGAAGAGAAAAAAGGAGAAAAAAGGGGGGCAAGGACCBG A G A A A G G G A A G G G GAA A A G G GAGAGACCAAAAGAAAA GAGGG A G G GCAAGGAGAAGAGAAAAAGAAGGAGGGAGAGACAAGAAA A GAGGAGGACGGAGGAAAGGGAGAGAAGAAGGACGAGECAGA A G G A G G A A A G A G C C A G GAA $A \operatorname{GGGAAAAGAAAAGAGGGAACCAA}$ GAGGACAGGGACAGACAGACAAAAAGAAAAAAAAAAGGAGAA AAAAAAAAAAGGAACCGGGGCCAGGAAAAAAGCCGBAAGGAG CA $\mathrm{A} G \mathrm{G}$ GAAACAGGGGGGGGGAACCGGGGGGAACCCCCGGGAG AAACGGAGAAAAAAAAAAGGACGAGACAGGAAGGGGGGAAA G GAA A A GAAA A A G G GAAAGAGAGGGAAAGCCCAGGGAGGAACA A A G GAA A G A A A GAGGAGGCCAAAAGGGGAAAAAAAACAAAAA
 A A C C G G G G G G A A A A A A G G A A G G G GCCGGGGCCGGGGCCAAAA
 G G GAA A A G G G G G G G A G G A A A A A A A A A A A GAA A A A GAA G G G A A
 GAGAGAGGGGGGAAGGAAAATTGGGGAAGGAAGGGGGAAAAG GAGAAAAAGGAAAACCGAAGAGGGAAGGGACCAAACGAGGGG
 GAACGGGGAGAGACAGAAAAAAAAAAAACCGGAACCACGGGA ACAA C G G G A G G G G A G G T T A A A A G G G G A A G G GA G G A A G A G G G A A GAGAGGGAAGGGGGAGAAGCCGGAAGGAAAAGGAAAAGGAG A G A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A \mathrm{G} G A A A A G G G G A A G G G A G G G A A A A A G G A G$

 GAAAGGCCAAGGAAAAGGAAAAAAGGAAACAAGGAAGGGGAA AAGGAAAAAAAAGGAAAAAAAACCCCACGCCAAAGAAAGGAG
 AA $\operatorname{A} G \mathrm{G} G \mathrm{~A} A C C \subset C G G A A A A C C G G A A A A G G T T G G G A C A G G A A A A$ G G G G A C C C A A G GAA $A \operatorname{GGGACAAAAAGGCCAAAAGGAAAGAAGG}$ G GGGCCCCGGCCAAAAGGAAGAGAGGGAGGGAGAGGCCAGGG A A A A G G G G G A GAGGCAGAAAGGGGGGCAGGAAGGAAAAACAA AAAAAACCGGGGAAAAGGGGAAAAAAAGAAAGAAAGAGAGAA A A G G A A G G G G G G A A A A $\mathcal{A} G A G G G A A G A A A G G G A C C A A A G A G G G$ GAAAGGGAAGCAAGGAAAAAAAGGAAGGGCGCAAGGAACAGG G GAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A A A A A G C A A A G A A A A C A G G G G G G G G G G G$ GAAAA AAA A G G G GAAAGGAGAAAAGGAGGGGGGGCAAGAAAA G G A A A G A G G A G G C A G G G G A A G G G G A G G G C C C C G G G A G G A A G G A G G G G G G G A A G A A G G G A A G A G A A A A A A A A A G GA G C C G G G G A G AAAGAACCCCGGAAGGGGGAAAGGAAAGGGGGGAGGAGAGAG A A G G C A G G G G G G G A A A G G A A C C A A A A G GCCCCAACCAAACAA G G G A A G A A A A G A A A A A A AC GAGAAAAAAAAGGGAAAAGAACA G GCCACAACCGAAAAACAAAAAAGACAGGAGAGGGGTTGGGG A A G G G G A A A A A A G G G G G G A A A A A A A A A A C CAAA $A$ A G A A A C G G G GAA A GAA $A \operatorname{G} G \mathrm{G}$ GAACAGGGGAAACAAAAATCAAGGGAGAACA A A A A A CA A G G G A G G GAGGCCAGGGCAGGGGAAA GAAC
AAAAAGGAAGGACCAAGGAAAAAAGAGAGGAAAAGGGGAAG G GCCGGACAACCGGGGACACCCGGAAGGGAAGAGAACAAAGB A A A A G G A A G A A A A A A G G GCCGGTTGGGGAAGGGGGAAAAAA G A A A A A T G G GAGAGAAGAGCACAGAGCGGCAGGGGGGAAGGAA G G G G G G A G A T A GAAAAAAAGGGGGACGGGGGGGGGAAAAAAGAG G G A A C C G G A A G G A A G A G G A T A GAGAGCCAGGCAACAGGGGGG AAAACCAAAAGGAAGGGGGGAGAGAAGGGGGGGGAAGGGAGA A A G G G G G A C A A G A A G G A G G G G G A G G G G G A A GA G G A C G A G G G A A G G A G A A A G G G GA $A$ A $A \operatorname{AAAGGGGAGACGGGGAAAAAAAAGGAA}$ A A G G A A C C A A G GAA A G G GAAAAGGCCAAAAAACCAAGGGGGG G G A A C C G G A A A A G G G G A A A A A A G G G G A A G GAAAA A G G G A G A G A A A A T T G A A G G A A A A A T T G G G G G G G G G G G G G A A A $\mathcal{A} A G G G A G G$

T TACGGAAGAGGAACCGGAACCGGAGGAAAAAGGGGGACCAG
 A ACGCAGGAAAATAGAGGAAAGGAGGAGGAGAAAAAA GATCG A A G GCCAA $C$ G G G G G G G C CA A GAAA A A A A GATTGGGGGGAGAA G GCCGGGGCCAGGAAGGGGAAAAAGGGGGGGGAACAGAAGAA C C G G A A A A A A C C G G G G G G G G A G G G G G A G C A G A G G A GA G C A T T C G A A A C G A G A A C G A GAAAA $A$ A A GAGGGGGCCACAGA GA G GA G G C C G A A G G A G GAGAAAGCCGGAAGGAGAAGGGGCCAAGGCCGG C C C C G G G G A A G G G G G G A A G G C C A A A A A A G G G G G G G A A G A A A G AAGAAAAAGGAGCAAAACAAGGAACCAAAAAAGAAGACAAGG GAGGGGAAGGGGACAACCAAAAAAGGCCACCAGAGGGGAAAC A G G G G A G G A A G GCCGGCCACAAGACCAGGAAGACAAAAAAAA A A G G G G G G A G G ACCAACCGAAGATGAAGAGAAAAAAGAACAA G GAAGAAGAGCCAAAAGGCCCAAAGGGAGGGGGGCACACAAC
 AA G GAAAAAAGGAAAGAAGAGACCAAGGGAGAAAAACA G GAAA AA $\mathrm{A} G \mathrm{~A} A \subset C G G A A G G A A G G A A C C A A G A A G G A G A A A A A A A A A A A$ A A G G G GAATTAAAAGAGAAAAAGAGGAAGGGGGAAATAGGGG AAAAGGGGAAAAGGAGGGAAAAAACCAGGCGAACCCGAGGGG A A G G A A G G A A T T G G G G A A A A A A G G G GAAAAA $A$ A G G G G G C C C C G GAAGGGGGGAAGAAAAAGGAAAAAAGGAAAAGGAAGGGGAA G G G GAACCAAGGAACCAAAACCCCAAGGAAAAAAGGGGAAGG A A G G G G G G A A A A A A A A G GAACCAAAAAACCAAAAAAAA G GAA

 G G T T C C G G A A G G G G A A A A G G G G A A G G G G G G G G A A A A C C G G A A G GAAAAAAGGGGGGGGAAGGGGGGAAGGCCCCAAGGGGAAAA G G G G G G T T C C A A A A A ATTGGAAAAAACCAAAAAAAAGGAAAA
 G G G G G G A A G G A A A A A A G G G G G G A A G GGGAAAACCAAGGAGAA G G A A A A C C G G A A G G G G G G C C G G G G A A G G A A A A G G G G A A G G A A AAAAGGGGCCGGGGAAAAGGGGGGGGCCAAGGGGAAAAAAAA G GAA A GAGGGGGAAAAAAGGGGGGAAGGCCAAGGGGAAGGAA G G A A A A G G A A A A A A A A G G G G G G G G A A A A C CAACCGGCCAA G G A A A A A A G G A A G G G GAACCGGAAAACCGGAAAAAAAAGAAAAA A A A A A A G G G G A A G G A A G G A G C C G G A A A A G GAAAA A GAAC C G G G G G GAA A GCCAAAAGGAAAAAAAAGGAAGGAAAAGAAAGAAA A A G GAA $A \operatorname{GAAA} A A A C C G G G G G G C C A A G G A A G G C C A A G G G G C C$ G G G G A A G G G G A A A A G G A A A A G G G G C C A A G G G G G G C C G G G G A A A A G GAA A G G G G GAACCAAGGAAGGAACCAAAAAAAAAAAA GA $C \subset G G A A G G A A G G G G C C A A C C G G G G G G G G A A A A A A A A G G G G G G$ G G A A G G A A A A A A G G A A G G A A C C G G G G C C G G A A C C A A A A A A A A AAAACCGGTTGAAAGGAAGACCACAAACGGGAGGAACCGGGG
 A GAAAAGGAGAACCAAAGACAGGAGGAAAAGGAGGAGACCBA $A G G G C A A A G G A A A A G A G G A A A A G A C A A G G G G G A G G A G A A G G G$ GAGGGGAAAAGGAGGAGAAAGGGGAAAAGGAAGGGGAAAAGG G G A A A A G G A A A G G A A GACGCGAAGGAGGCCGAAAAAAAGGCC GAGGAAGAAAGAAGCCGAAGCCAGAAGAGGAGCCAAAGAAAA G G G G A A C A G G G A A G A G G G G A A G C C C C G G A A A G A G G G G A G G A A A GAA A GAAAGCCGGAAGACAGAAAAGGGGGGGAAAACCGACC AAAAGGAGGATAGAGGGAAGAAAAAAAAAGGGAACCAAAABG A A G G G A A A A A G A A A A A G G A G A G A C G C C C G G A A A A G G G A G G A A AAAAGGAAGGGGAAGGGGAAGGAAAAGGAGAGCAAAAGAAAG A GAAAGAACCAAGCAAAAAAAACCAGGGGAGAAGAAAACCAA A A A G G A G A G A A A G G G G G G G G A GAGCCAAAAAGAGGGCAAAC C A G G G C C A A G G G G G G G G A G G G A G G A A A A A C C C C C C G A G G A C G G G G G G A A A G A A C A A A G G A A G GAAAA A G G GAACCAAAA G G G G A A G GAAGGACAACCACGGGGGGGGGGGGAAGGAGGGAGAAGGCC

G GAGAGGGAACCAGGGGAGGAAAAGAGAGAGAGGGGAAAAGG A A G G G GCAAAACAGAAAAGGGGCAAGAGGGAAAAGGCCAACC G GAAGGGAGAAACAAAAAAAAAGGAAGGAAACAAA GAAAGGGG GAGGAAGGGGCCGGAGGGAGAAGGAGGGGGGGGGCCGAAAAA A A A A ACAGGCGGAAGGCAGAGGCCAGTTGAAAGAAGAAAAAG GAA $A \operatorname{AAACCAAGGGGCCGGGGAAGGGGGGGGGGGGGAAA} G G C C$ G GAACCGGCCAAGGACAAGGAAGGGAAAAGAACCGBAAAAGA GGGGAGCCAGAACCCCAGAGCCGAAGGGAGGGCCGGAAAGGA G G G G A A A GCC G GAA A GAAAAGGGGAGAGACAGAGAAAAAA GA AAAAGGGAAAAGCACCAGGGGGGGCCCCGGGAAAAAGGGAAA GAGGAGGGAAGGAAAAGGAAAAAAGAGGAAAAAACCAAAAAA AAAGGGCCAACCAAAACGAAGGGAGGGGGGAAGGAGGGAGAG A A GAAGCAGGAAAAAAAAAAAAAGAAGGAACCGATTAAGACC ACAAAAGGGGAACCAACCAAAAGGGGAACCGGAAGGCCGGGG A A A ACAAAACAAGAAAAAGGGGCCAAAAGGCCCCCCCCAGAA
 A A A A A A GAGGGGGAAAAAGGCCCCGGAAAAAGCCAAAAAACC GAAATTAAAAACGGGGGAAAGAGAGGAAGGCCGGGGAAAAAA AAGGGGGGCAAGAGAACCGGTACCAAAAAGAAGAGGGGAABG G G G G G G G A A A G A G G C C G G A GACCCAGGAAGAAAAGAAGAGAA T TAAGGCAGAGGGGGGGGGAAGGGGGGGAAAAAAGGAAAGGG A GACGGGGAAAGGAAGGGAAGGGAGGAGGGGAGCGAAGAGAA A G G GCAGGGAAAAAACGGAAGGAGGAAAAGATGGGGGGAGAA A A A A G G A A A G A A G G G G G G A C A A G G G G G G C C C C C A G G A A G A G A
 AACCCCCCAGAAGAGACCAAAAGAAAGGGAGGGGAGAGAAAG C GAAGGAAAACCAAGAGGAAGGAAGAGGAGCAAAAAACGGCC A G GAGGGAAAGGAGCCAAGAAACACAGGGAAGAGGGGAAGCC GAGAGGAAGGGGGGAGGGGAGAGAAGAAGGAACCGGGAAGAA ACGAGGGGAAAAGGAGGGACGGAAAAAAAAAGACGAAGAGAG A A G G G G A G A A C C G G G G A A G G G G G G G G A A A A G A A A T T GAAC $\mathcal{A} G$ AA $\operatorname{A} G A A G G G A G G A C G G G A G G A G A G A A G A G A A A A A G A G G C C G A$ CAGAAAGGAGAGGGAAAGAGGGCCAACAAACGGGGGCCAGAAA G G G GCAG GAAAAGGCCGGAAGGAAAGAAACGAGGGAAAAAAA A GACAGGGGGACAGAGGGAAAAGAAGAAAAAAGGGGGGAGAAA C C G GAA A A A GAACAAGGGAAGGGGAACCAAGGAAAAGGAGAA G GAA A A G GAGGGAGAGGAGAAGGGAGAACAGGAAAGGAGAAG
 A G A A G G G A A C A C G A G G A C G G A G G A G G A A G GAAAA A A G G A T G G GAGGAAAGAGACGGGGAGCCAAGAAAAGCAGAGGGGGAAAGG AAAAAAAAAAGGAAGGGGAAAAGCCCAAGGAAAGAAAGGGGG A A A A A GAA $A$ A A GCCAGAAGAGAACCCGGAAAAACAGCCGGAA A G GAGGAAAAGGAAAAAAGGGGGGGGCCGAAGGAGGAAGGGG G GAGAGAAACAAGGACGGGGGGCCAAGAACAAGGAAAGGGGG $A C G G G G G G G A A G A C G G G G G G A G G A A A A A G A A G A G G G C C A A A A$ G G G G G G T T A GAAAAA A A A A G G G C C A A A A A A A A A A G G G G G G G G A A A A GAGGAAGGGGGGAAGACAAGAAAAAAGGGGCCA
$G C C A A A G A G G A A G C C A A G A G A G G T A G G A A A A C C A A A A G C G A$ C CAACCAAAGGGGAAAAACCGGGGGGTAAAAAGAAAGEAGCAA G G A A A G G A GACCGGGGAACCGAGGAAAAGGGAGAGGCAAA G G ACAAAGAAGGCCGACCAAGGGAGGGAGAGAGAAAGGAAAAAA A G GAGAGAAAGAAGGGAAAGAAAAGGGGCCCAGGGAAAAAAAA GAGAAAAAAGGACCGGGAGAAGCCAGAAACGAGGAGAAGGAA G GAGGAGGAAGGAAGGGAAAAGGAGAAAGAACAGAAAAGAGG AAAGACAAGAAAAGGAGAGAAGAAAAAAGGGGGGAAGAAAAAA A A G G A A G A G G A A C G A G G A G A G G A A GAAAAAAAA A G GA GAC GAA G G G G G G G G G G A A G G A A A G G GCC C A GAAGAAAACCAAAAAGAA A A A G A A $\mathcal{A} G G G G G G G G G C A C A G A G G G G C A G A G A G G A A C A A A A G$ AAAGAGGGGAGAGGGGAAAAGGGAGAGACAACGAGACAAGAC

CAAAAAAAGAGGAGAGGGCCAAGGCAGGGGGGGGAAAGGAAA G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGGCAAA A G G G G A A A G G G G G GAACCGGGGGGAGAGAACGACA G GA GA GA
 A G GAAACCAACACAAGGGGGGGAAAAGGGGAAAAGGGGAAAAA A A G GAAAGGGAGGAAGAAAGGAAGGAGAACAACCGGGGAAAG ACAGGAGAAGGAAAGGGGAAAAGAAGGGAAAACCAAAGGGAA GAAGGGGAGAGGGGAACCAAGGGGGGAGGGGGAGA$G A A G G G G$ G G A A A A A GCCAAAAGGGGAGCCAGGGAGAGGAGGAAAAAACC $A C A C A G G G G G A G A G A G G A G G C C G G A G G G C C G G G G G G G A A A A A$
 G G A A A GAGGGGGGGAAAACCCCGAGGGGGGAAACAACCAGGG G G GACCCCAAAAAAGGGACAGGACAAGAGGGGAAAAGGAGAG C C G A G G G G A GAACC G GAAAACCGAGGACAAAACAGGGGTTGG G G GAA $\operatorname{ACC} C \mathrm{C} G \mathrm{G} G C \subset A C G G G A G A A G C C A A G A A A A A A C G G G G G G$ $G G C C A A G A G G A A A G A A G G A A G A G A A A A C G A A A G A A G G A G G G G$ A A G A A GAC $\mathrm{C} A \mathrm{~A} A \mathrm{~A} G \mathrm{G}$ GAAGGGGGGGAACCGGAAACAAAGAGGG
 G G GACCCCAGGGAACCGGGGGGGGGAGAACGACCAAAAAAAA GAGACAACGGCCCCGGGGAAGGGGGGCCGGCCAAAAGGAGCC AACCGAGGGGGAAACCGGGGCCGAGGGACCGGAAAAAC G GCA ACGGGGAAGGGGAAGAAAAGCCGGAAAGGAAAGGGGGGAGAA G G A A A G A G A A A G G G A A T T G G G G G G A A GAAAA A GA G G CAAA $A$ A G GAGAAGGGGCCGAAGACGAGGAACCAACCGGGGGGAAGABA CA $\mathrm{C} G \mathrm{~A}$ G G A A A G G G G A G G G A A A A G G G G A A G G A A A A A A G G A A G G A A A A A A G G G GAA $A \operatorname{G} G \mathrm{G}$ GAAGGAAATAGCCGGGAACGAAGGGAG G G G GAAAAGGGGAGGAAGGGGAAGGACAGGGGAAGGAACAAA A G G G G G G G A A G G CAC CAAAAAAGGCCAAGAGACAGCCAAAGCC A A G GCCGGCCAAAACCGGGGCCCAGGAGAAGGAGAAGGGGGG C CATGGAAGGAAAACAAAAAAGAGACCAGGCAGGCCAAAAGAG AACCGGGGAAAAAAGAGGAAAAGAAAAGGAAGGGAGCAGAAG AAAAGGAGAAAAGGAAGGAGGACCAAGGAAAGGAAAAG GAAA A GAACCCCCCGGAAACCCAGAGAGAAAGGGGGGGGGAAAAGA C CAGAAAGCAAAAGAAAGAAACGGAAAGAAGGCCAGGGAGAG $A G G G A G G G G G G A A G G G C C G G A A G G G G A A A A A A G G G G G A A A G G$ G G G A G G G G A A G A A A G A A G G A G G G G A A G G G G G G G G A C A A G G A C AAGGAAGGGGAACCGGAAAAGAGGAAGGAGGAAACCGGAAGA GAAGAAGGGGAAGGCCGGAAGGAGGGAAGGGGGGAGAAAAAG A G G G A A G G A G G A C C A A A A A G A G G G A A G A A G G G G G G G A G G G G G
 A G GAGGAGAGGGCCAAAAAAGGGAAGAGGGCCBAGAGGGGCC $G G A A A A A A G G A A A A G G A G A G A A C C G G A A A A G G A A C C G G G G A A$ $C \subset A G G G G A C A G A G A G G G G G G A A G G A A G G G G G A G A G A G A C A A A$ A G G G G GAGCCGGAAAAAAGGAAGAGGGAGGGGGGAGACAAAA A G A G A A A A A A A A G GAAA $A \operatorname{AGGGAAAACAAAAGGAGGAGACACA}$
 G G G G G G C C G G G G G A G G G G A A G G A A GAG G G G G G A A A G A A A A A A GAGGGGGGGGGGGGAAAGAGAGAGAGGAAGGAAGGGAAGAGG G G GACAAAAACAGGGAAGGGAAGGAAAGGGCCAAGGGGAGAG A GAAAGCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGGAAAA A A A A G A A A G GAGGGGAGGAGAAAAAACCCAGAAAAAAAAGAG A GAA A G G G G G G GAAGACCCCACAAAAAAAAAAGGCCAACC GA GAAAAGAAGGAGGGCCAAGGAGACAGGGAGGGGGAAAAGGGG AAAACCGCGAGAAAAACAAGCACCAAAAGGGGAAAAAAAAAA G GAGAAAGCAGGGGCCGGGGAACCGGGACCCAGGTAAAAAAA GAGGAAAAACAGAAGGACAGCCAGCAGAGAAAAACAAAGGAC A A G G A G G G G GCC G G A A A A G G C C A A G G G G G G G A G G G G G G G G A A GAAGGGACAGGAGGGGGGGGAGGGGAAGGCAAGAACCCGGGG G G G G G G G G A G A A A G A CAGGAGGGGCCAGGGGGGGCCCCCCCC

GAGGCCAACCAAAAGACGCACAAAGAAAGGGGAGCAAAGGGG C CAACCGGACGAAAGGAAGGACGGAAGGAAAGCCGGAAGGCC TAAGAAGGAAAAGGCCAACAGAAAAAGAGGGAAGCAGAAAAG A A A A A A A ACCAGAGCCAGGGGGAAAAGGGGGGGGGGGGAGAG A G G G G G G G A A A ACAAAAAAAACGAGGAGGGAAAAG GAAAA GA A $G G G G A G A C A A G A A A G G G A A G G G G G G G G G A A C G A A A A C A A A A$ C C G G G GAAAAGGGAGAGAGGGGAGGGAAAAAAGACAGAAAAG GGGGTTCCGGCAAGAAAAGACCCCAAAGGGGGGGAACACAAA A G A A A ACCAAACCAGGGGAAGAGGTTAAAAAGGAAGCCAAGB AAGAAAACGGGGGGCCAGAGAAGACCGGGGAGGGGGGGAGAA GAAAGGACAAGGGGGGACAAGGAAGGCAACGGAACAGAAAGG G GAA A GAGCAAGGGGGAGGCACGGGGGAAACAGAAGGGAAAA GAGGAGAGGGAAGAGGGACAGGAAAAGAAACCAAAAGGAGAA G G A A A A GAA $A \operatorname{AGGGGT} T G G C C G G G G G G A A G A A A G G G G G G C C A A$ AGCCAGCAAAAAGGGGAAAAGGCCGGGAAAGAGGGGAGAGCC
 A A GAAAAAAAAGTTAATAGGGAGGAAGGGGCAAAACGGAGAA A G A G A GAACAGGGAGGGGACGAACAAAGAAAAAAGGCCAAAA T T GAA A G G GAATAACCGGCCGAAAGGGGGGGGGGAGAAAAAA A A G G G G G G G G A A G A GAGAAAGGAACCAAAGGAGGAGGAAA GA AGACAGGGCCGGAGGACAGAGGCACCAGGGAAAAAAAGGAAC G GAA $A \operatorname{GA} A G A G A A G G G G G A A A G A C G G A G G G G G G G A A G G A A G A$ GAAAGGGGAGCCGGAAGAAGCCGGGAACAGGGAAAAAGGGGG GAAA A G G G A A G G G A G G A A A G G G G A G G G G A A G G A A C C A G G G A G
 G GAGGGGGAGGACAAAGAGGAGGGAGGGACGGCCAGAAAAGG AAGGCCCACACCGGGGGGAAGGGGCCAAGACAGGAGGGAGAG G GAGGAGGGGAAGGGACCACAACAAAGGAGAGGGAAAAGAAC GAAA A A A CAGAAAAGGGGCCGGGGAAGGGAGAGGAAGAAAAA A G G G GAGCGGAAGGAGGAAGAAGGAAAGCCAAAAGGCCGGGG A A A G G A G A A C G G A A A A G GAAAA A G G G G G A G GAC GAAA A G G G G G G G G GAAAAGGGAAAAGAAACACGAGGAAGAGAAGGAAAAGGG AAACGGGACCAACAGGGAACCCAAGAAAGAGGAAAAAAAAGG
 $G G C C A A A A G G G G A A A G A A A A A G G G A G A A G A A G A C A A G A C A A A$ C C G G A A C C A A G A A G G A G G G A G G G G G G C C G G G G A A G G G G G G C C G G A A A A G G G G A G G G A A G G A A G G A A G G G G G A A C G G A C A A G G G G A GAAAAGGAAGGAGAGGGGGAAAGGGACAAAAGGGAAAAGGG CAAGAGGGGGCCGGAACAGGGGAAGGGGAACCAAAAGGGGAC
 CAAAAAAAAAAGAGGGGGAAAAGGAAGGCCGGAAAGAGAAAG A G A A G G G G G G A A G A A A G G GAAC G GCCGGCCAAAAGAACAGCC A G GAAAAAAGAGCGGAAGGAAGGGGGAGAAGGGAAAGGGGGG GAAA $A$ A $A \operatorname{G} G A A G A C A A A G A A G G A A A G G G G G G G G G A G G G A A G G$ A G G G G G A G A A G G G A G G C A A A A A G GCCCCGGAGGGGAGAAA G G G GAGAAGGAGAAAAAAGGGGGGGAGAGAGGAGAGAGGGAACC A A A G G G G G G G A G G G G G A C A A A A A A A C G GACA A A G G GC
A G G A G G A A A C A A A G A C A A A A G GAGGAGCC GAACAG GA G GAA A C CAC GAGGGGAAAGGCAACAAGAAAAAAAAGGAAAAGAAGAA A G GAGGCCGGAAAGGAAGAAAAAAGGGGAACCAAGGGGAGAA GAGGAGAGAAAAGGAAGGAAGGGGGGGGAAGGGGGGAAAGAA G G GAGGGGCCCCACGAGGCCAGAGGGGGCCAAGAAGAAAAGA A A G A C CA GAG GAACAAGGAGAGGGAACCGAAGGGAAAAACGG A G G G G GAAAGCCGGAGAGAGAGGGAGAGGAGAAGAGGGAGAA C CA A G A A G G GACAGAAAGAGAGACGGGGGGAAGGTTGGGGGG G G G G G G G G G GCCCCCCAAGGGGGGGGGGGGAAAAAAAAAA G G G GAACCAACCAAAAGGGGAAAACCGGAACCCCGBAAGGAGAA A A A A G G A A A A A A A A G G T T A A G G G G G G G A G G A A A A G G G G G G T T $G G G G A A C C G G G G A A G G G G G G G G A A A A A A G G A A A A A A G G G G G G$

AAGGAAAAAAAAAAGGGGGGAAAAGGGGCCCCGGGGGGAAGG $G G A A G G G G G G G G G G C C G G A A A A A A A A A A A A A A A A A A G G A G A A$ CCGGAACCAAAAAAGGCCAACCGGAAGGAAGGGGAAAAAAGG AAGGGGAACCGGAAGGGGAAAAGGGGAAGGAAAAAAAACCGG G GAAAAAAAGGGAGGGAGAGGGGAAAAAAAGGGGAGCAAAGA A G G GCAAGCAGGCCAAGAAGGGGGCAAACCAAGGGAAGAGAG A G A A C A A G GAGAGAAAGAGGGGGGAACCGGGGAGGAAAAAAC AGGGAGAGCCAAAAGGGAAGGAAAGGAAACGAGGGGGGAAAAG G GCCCAAGAGAAAGGGAGAAGGGGGGGAAGGGGGAGAGAABA AAAAAAAAGGAGGGAAGGAAAAAAGGGAACAGAGGAGAACAA A A G GAA A G G G G A A G GAGGGGAAAAGAAGAGAGGGAA AAAGAG A GCAA $\mathrm{C} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G A A A G A A G A A A A G G C C C C G G C C A A A G G G$ A GAAA A $A \subset C A G A A G G A G C C G G A A A A G G G G C C G G C A G A G G G G G G$ G G G GCCGGCCAGAGAAGGGAGGGGGGGGCAGAAGGCAATTCC A G G G G GAGAAAAAAAAGGAAGAAAATAAAAGGGGGGGGGGCC T TACAGGAAGGGAAAGAGGAGAGAACAAAAAAAAGGGGGGGA
 A GAA A GAAA ACAAAAAGGGAGGGAAAGGGGAAAAAACCACAA $C \subset C C A G G G G G A G G G C A A G A A C C G G G G G A G G A A C A G A A A G G G G$ A A G A $\operatorname{A} G A A G G G G G G G A G G G G G G A A G G C C G G A A C G G G A A A G A A$ A A A GAAACCAAGAAAGAAGGAGGGCCACAAAGGGAACCACAA ACAAGAAGAAAACACAAAAGGGAAAAAAAAGGAAAGAAAAAA A A G G A A A A T TAAAAGGGGGGAACCCCGGAAGGAAGGAAGGAA
 G GAA $A \operatorname{GCCA} A A A G G G G A A A A A A G G G G G G A A A A G G G A A A C C G G$ $C \subset A A A A G G A A C C C C A G G G C A C C G A A A G G A A A A A A C C G G G A G G$ G G G GA $\operatorname{G}$ GAGGAGGGGGAAAGAAGGGGAAAACCCCAAGGGGGG G G G GAAAAAAGAGGCCAAAAAAAAGGGAGAGAAAGGGGAAGAA A A A A A ACCAACCAAGGGAGGGGAAGGGGAAAAAAAGAAAA GA G G G A A GAA $A \operatorname{AGGGGGGGGAGCAGAACGGAGGGACAA} G A G A A G A$ $C C A A G G G G C C G A A G C A G A C C G G A A A A G A A A G G G G G G G G A A A A$ AAGAGAGAAGACAAAAAAGGAAAGAGACGGGAAAAG GAAGAA G GAA $A \operatorname{GAA} A G A G A A A G G G A G A A G A G G A G G A A G A A G G G A A G G G$ G GAA A A GACAGGAGGGAAGGAAAGAAGACCGGGGAGAAAGGG GAACAAGGGGAAGGAAGGGAAAGAGGCCGGAAAAAACBAGAA G G GAA $A$ AAAAGACAACCCCAAAAGGGGGGGAAAAAGGAAGGAG
 G GAA A G G G A A A G G A GAGAGGGGGGGGGGGGGGTTAAGGCCCC G GCCAAAAAACCGGAAGGGGGGAAAAGGGGAAAA G GAAAGGAA A GAGAGC GAAAA A G GAAA A A G C G A GAGAGGAGGGGACGGGCGG A GAGAGACGAGGACAGAACAAGAAGGGACAAAGGGAAAAAAG AAAAGGGGCCAAAAAAAAGGCCAGAAAAAGACGGACCCAGAG G G G G G G G G A G G GAAAAAGGGAAGGAAGGAGCGGGAAGGACAA A GAACCGGAAGAAGAAGGAAATAAAAAAGGGGGGGGAGGGGG G G G G A A G G A A C C G A G G G G A A G GAGGAAGGGCAGAATCAAA G G G GAACCAACCAAAAGGAAAGGGACAAAACCAAAAAACC G GAA $C C G G A A A G G G G A A G G G C C G G G G A G A G A A G A G A A A C C G G A C A A$ GAAGGGGGAAGGGGAGAGAGGAAAGGAAAACCAAGGCAAAGA $C G G A A A A A G G G G G G A A G G C C A A A G G G G G A G G G A C C C C C A C A A$ G G G GAA A A GAA GACGACAAAAAGGTTGGAGGAGGGGAAAACC $A A C C A G A A C C G G A A G G A G G A G G A G G G A A A G A A A G A G G G A G G G$ $G G C C A C G G A A A A A G G G A G G G A A C C C C G G G G G G A A A A C C A G A A$ A A A A C C G G G G A A G G A A A A C C A A C C G G G G G G G G G G G G C C G G G G A GAGAGGGGGAAGAAGGAAAGGGGAAGGGGAAACAAAAAAAA G G G GAGCAGAAAGGAAAAGGGAGAGGTTACAGGGACCCAGAAA G GAGCAGAAGGGAGCCAAAAGAAAGAAAAACGAAGGGAGGAA AA $A G G G G G G G A G A G A A A A A A A A A A A A G G G G A A A G A A A A A A C G$ $A C G G G A G G G G A G A G G G G G A G A G A A G G A A A G G A G A A A G A G A A A$ GAAAAGAGAAAAAGAAAGGGACACAAAGGGCCCCGAGAGGCC

A GAGGGGAAAAAGGAGGGCCAAAGCAGAAAGGGGAGGGGGGG G GCC G A G G A G A A G G G G C C A A GAGGGAAGAAAGAAACAAAA G G CAACGGGAAGGGGGGGGGAAGAGGAAAACGCCAAGGGGGAAA AAAAAAGAGAGGGGGGAGAAGAAAAGAACAAAAAGGTTGAGA GAAGGGGGCCCCAGCAAAAAAGAAAAAAAGAAAGAAGGAAGA GAAGAGAAAAAACCGGAAAAGACCAAAAGGCCAAAAAAAAGG $C \subset C \subset A C G G G G G G G G C G A G G A A A C C A G G G A G A A A C G A G A A C B G$ G G G A A A G G A A G GAACCGAGAGGGAAAGGGGAAGGAAAACCAA G GCCAAGGGGAGGAGAAGCCAGAGAGGGAAGGAAAAAAGGCC GAAAGGGAAAGAAAGGGACCGGGGGGAAGGAAGGCAAAGGCC

 A G G G A A A A A C G G G G G C G A G G C C G G G G A A G G A G G G G G G G C A $\mathcal{A} A$
 G GAGAACCGAAAAGGGAAGGAGAAGGGAGGGGAGCAGGAAAG GAAAGGGGAGGAGGCCAGGGAAAAGGAGGGAGGAGGAGGGAA
 A G G A G A G G G G A A G A A G G GCCGGGGGAAACCGGAGGGAAGGCC AAAAGGAAGGAAGGAAGGGGAAAGAAAAAAAAAAGGGGGGGG G GAA $\operatorname{G}$ GAACCGGGGAAGAGGGATAGGAAAGAAGGGAGGGGGG ACAAAAGGAGAGACGAGACCGGAAAGCAAGGAGAGGGGCCAA GAAGGGGAGAGGAGCACCGGAAGGAAGGGGAGGGGGAAGAAG C C G A A G G G G G G GAA A A A A A G G A A A G G G G G GAA A A A A G G G G A C A GCCAAAGAGGAGGAAGGGACACCAACCGAAGGGGCGAAAAG GAGGAAGGTTAAAACCAACCAAGGGGAAAAGGAGGAGGAGGG G GAAAACCGGGGAAAGGGAACCAAGGGAGGCAGAAGGGCAAA G GCAA $\mathrm{C} A \mathrm{~A}$ A G G G GAGAATAGAAGAAAGAGATAAGAAAGAGAA A A A A $\mathcal{A} G C C G G G G G G G G A G G G G A G G G G G G C A G A A G G G C A G G T T$ C CAA $A \operatorname{G} G \mathrm{G} A \subset A A G G A C A G G G G G G G G G A A G G A G A A A A G A G A G A$
 A A G G G G A G G G G A A A A G A A G G G A A A A A A A C C G G A GCC G G A G A A GAACAGGGGAAAAAAGGGGAGGGGCCGGACAGCACAGAAGAG GAAAAAAAAAGGGGGGAGAGAGAAAAGAGGGGAGAGGGGGGG A A C G G GAA $A \operatorname{GCCA} A A T C A A A A G G G G A C C G C A G G A G A C A A A A A$ G G G G G G G G A G G G G A A C G A GAGAGCAAGGGAAAGGGGAAAAAC GAAGGACCGGCAAGAAAGGGAGAGAGAGAAGAGGAGGGAGAA A A GAGGGAGAACCCAAGAGAGGGAAGCAAAGGAACCAATTGG G G G GAAAAAAGAGGCCGGGGAAGGGGAAGAAGAGAAAAAAGA
 A A G G G G G G G G G G G G A A A A G GAA A G A A G G G G A A A A C C A A A A A A G G G GCCGGGGGGAAAAAAGGGGGGGGAAGGCCGGAAAAGGAA G G G G G G G G A A A A T T A A G G A A G G G G T T G G C C A A A A A A A A A A A A AAGGGGAAAAAAAAAAAACAAAAAGGAAAAGGGGGGAAGGGG
 G G G G G G G G G G G G G G A C G G G G G A G G A G G G A A G A G A A G C G G A G G GAAGACGAGAGAAAAAGGAAGGAAAAAAGAAACAAAAGACCC G G G G G C C C G A A G C C G G G G G G C C A A G G G G G G A C G G C G C
AACGGAGAAGAAGGGAGAGACGGGGGAAGACGAGAAGAGCC G G G G G GACAGAAGGGAAGGGAAGGAAGGAAGGGAGAAAAAAG A A A A A A A G A A A GA $A$ A A A $G G G G G G G G A G A G G A A G A A G G A A G G B A$ A A GAAAGGAAGGGGAGAGGGGAAGGAAGAAGGACCAAACCBG A GAGAGACGAAGAAAAAACACAGAGGGGAAGGAAAACCGGGG A A G G A A A A GAGGCAAAGGAACAAGGAGGGAACGAAAAAAGGG GAAAGGAGAAGAGGAAGGAGAGGAAAACGGGGCGAAGAGGAG A A G G A A G GCA G GAGGACCGGGAAGAAAAGACAGGGGGAGGAG G G G G A A A A A A G G G G GAA A G G G G G G A A A A A GAA G GAA A A C C A A GACCAAACAAGGAAAGCCAAGGAGGGAGGGGGGBAAGGAGGG A A A G A GA G GC G A G A A A G G G A A A A C G A A G G G G G A G G G G C A A G G $G G A G G A G G G G A G A A A A A A G G G G A C G A G A A A A A G G G G A A G G A G$

ACAGAGAGGGAGGAAGCAAAAGGGAAGAGAAAAAAGGGAGGG A G G A A G G A C C G G G G A A A G G G GAGAGGACAAGACCCCAA GA GA G G G GAGAGAAGGAGAAAAGGAAAAAGAAAAAGCACACAACAC G GAAGGGAAGGGAGCCAAAAAAGAGGAGCAGAAACCCCAAGA A GAGACGGAAAAAGGGAGAACAAAGAGGGGAGGGAGGAAAGA CACCGGAAAGGAACGGGGAGAAGGGGAAGGGGGGGGGGAAAC A A A A G A G G G G A A A G C C A G G G G G G A A A G G G G G A A A A G A G G G G G AA $A G G G A A G G G G A A G G A A A A G G A A G G A A G G A A A A A A G G A G A A$ C C A A G G G G G G G GCCAAAAGGAAAACCAAAAAAAAAAAAAAAA A A G GAAAAAAGGGGAAAAGGAAGGGGTTTTAACCGGGGCCGG G GAAGGCCAAAAAACCGGCCGGAAGGAACCAAGAAAGGGGCC G G A A A ACCAAAACCGGAAAAAAAACCGGCCAAAAGAAAAAGG C C G GAA A GAA $A \operatorname{AGGGCCGGCCAAGGAAAAAGAGAGAACAGGTT}$ GGAACCAAAGAAAAAAAGAAACAAGGAAAGGAAACCAAGGAA G GAAGGGGGGGAGGGACAGAACAAAAAAAAAGAGGGAGAAAA A A GAAAAAGACAAAGGCCAAAAGGGAGAAAACGGAAGGAGAG C C A G G GAGAAAATTGGGGCCAAGGGGCAGAAACCGGCAGGGA A GCA G A A A A A A A G G A A A A A A GAGAGGGGGGAGACA GA GATTA GAAAAGAGCCGGAAGGGGGGAATTAACCGGAAGGGGGGAGAA AAAAGGAAGGAACCGAAGCCAAGGCCAAAAAAAAGGCCAAGBG G GAAGGAACCAAAAGGAAGGAAGGGGAAGGGGAAGGAAGGGG AAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGGAA G G G GACCCGGGAAGAAGGAACCAGAAGAGAACGCAAAAAAGG
 TACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAAA A A G GAA A G GAA $A$ A $A \operatorname{A} A A G G A A C C G G A A A A C C G A G G G G C A A A A$ G G G GAAAAGGCAAGAGGAAGAAGGGGGAAGGGGCAAGAAAAAA A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G GA G G A A A A G G G A A G G G A A G G A G G A A A G G G G A A A A G G G G G GAACCAACCA GAAC C $G G C C G G G G C C G G A G A A G G G G C G G G C C A A A G G G G A G A A G A G A G$ $A C C C A A C C A A G A A A A C G G G A A A G G G G G G G G G G C C A A G G A G A A$ G G G GCA $\operatorname{C}$ GAGGAGAAGAGACACGAAAAGGGAAAGGAACAAAA A A GA $\operatorname{A} A A A G A G G G A A A A A G G G G G G C C G G A G A G A A A A G G A A A A$
 GAGGAAGGAAAAGGAAGGAACCCCAGACAAGGAAGAAAAGAG A A G G G GAAAG A A GAGGAATACACCAAAACCAAGGAGAAAA GA A A G G A A G A G G G G G GAAAGGAACCAGGGGGGCCAAAAGAAAGA CCGGGGGGAAAAGGAACCAAGGCCAAGGAAGGGGGGAAACAG
 GAAAAAGGAAAATTAAGGGGGAAGAAGATTAAAAGAGGCCCA AA GAAAGGAAACGAACTAAAGGGGGGAAAGAAAAAGGAACBG A GAGCCATGGAAGAAGACGCACGAAGGAGGAAAAAAGGGGAT GACCAACCAAAAAAAAGGGGAAGGGGAAAAAAGGAGAAGGGG A A A A G G G G G G G G G G G G A C G G A A G G G GA G G A GAAAA $A$ A C A G C A AAAGAAAAGGGGGGCCAGGACCGGGAAAAACCGAGGGGAAGA A G T A A A A A A A A A CAAAAAAAAAGGAAAAAACACCAAA GAGAA A GAACAAAGAAACAAACCAAAGCCGGGAAGGAATAAAAGGAA AAAAGGAGAAGAAGAAGAGGCCCCGGGGGGAGGGACAAAAGG G G G GAA A GAAGGAAAACACCAGGGAGACACAAAGGAACAGAG G G A A C C G G G GCCAAGGGGGGAAAAAAGGGGAAAAAAAAAAAA AAGGAAAACCAACCAGGGAAAAAGAATTGGGGAAGAAGAACC A GAGGGCCACAAGGAAGGGAGAAAAGAACCAGAAGAAAAGAA $G G A A A A A G C C G G G A A A G G A A A G A A G G A G A A G A A G A G A A A G G G$ $A C A G A A G G G G G A G G G G G G A A G G G A A G A C C A A G G A G G A A G G G G$ A A A A A A A A A A G GAGGACCGAAGAGGAGGAAGGGAGGGGAAGA A A A A A A A G G G A A A A C C C GAGGGACGGAAGGAGAAGACAA G G G A A G G G G G A G G A C G G G G A A C C A A C C A G G GAA $A \operatorname{GGGGGGAA} G G A C$ AA G GAAA $A \operatorname{A} A A A C G A A G A T A A A G G G G A G A G G G A G G A C G G A G A G$ A A GAGAGAGGAACCGGAGCCGGGGAGAAGGAAAAGGAACCGG

A GAAAAAAAGGAAAAAAAAAGAGGGAGGGGAAAAAAGGAACC
 C C C A G G A A C C G G A A A G G G G G G G A A A A A T C C GAG G G A GAA A A A GAAATAAGGGCAAAGAGCAAGGGGAACAGGCCGGAGGGAAGA G G G G GACCAACCGGGGGAAGGGGGGAGAAACCCCAAGAAAGA A A G G A A G G G G G G G G A A G G A A G G G A G G G G C C A A G G A A A G A G A G G GCCGAGGGGAAGGACGAAACGAAAAACGGGACCAAGGGGGA $G A C C G A G G G G A A A C G G A A C C A A G G G A A G G G C G A A G A G A A G G A$ GAGGGGGGGGGGAAAAGGAAGGAAAAAAGGAAAAGGGGAGAA G GAAAAAAGGAAAAGGAGGGGAAAAAAAAGAGGGCAAAGACA GAGAGAGGAAAAGAGAGGGAGAGAAAGAAGAGAAGGGGGGGG G G A A A GAAAAGGGGCCCCAGCCAAAAGGAAAAGGAAAAAAAA G GAAAGGGAACCAGGAGGCCAAAGGACCGGAGGAAAGGAAGAG $G G A A G G G G A A A A G G A A G A C C A A G G A A C C G G A A G G C C C C B G G A$ $C \subset G A G G A A A A G G C C A G C C G G G G G A A G G G C C G G G G A A G G A A A G$ C CAA $A G G G A G G A A A C A G G A G G G G G A A A A C A G G C A A A A A A G G A$ A A A G A A A GCA G GAGAAGGGGCCAAGGGGACAAGGAACAGAAA CACCACAACCCCACAAAAGAAAAGCAGAGGAAGGGAAAAAGG $G G A A G G A A A A G G A G A A G G G G A G A G A G G A G G A A A A G G A A G G A A$ A A G G C A G G A G C C A A A A A A A A G G A A A A A A G G G A A A T T G A G G A G G GAAGAAAGGGGGAAAGAAAAGAAAAAAGGAGACAAAAAGAA C CAA $A \operatorname{GAA} A A G G A A A A A G G G A G G A G A G A G A C A G G G G A A G G G G$ A A A C G G G G G G G A G G G GACAGAGAAAGAAGGAACCAACCAAAA AAAGCAGGAAAGGACCGGGGAAAGCCAAAAAAAAAAAAGAGG A A G G G G A A A A C C G G A A A A G G G G A A CCGGGGGGAAG GAAACAA A A G GCCAAGGAAGGGGGGAAGGGGCCAATTGGAAAAGGAAGG AAAAGGAAAAAACCGGAAGGAAAAAAGGAAAGCCGGGGAGAA G GCCGGAAAAAAGGCCAAGGAAAAAAGGAAAAAAGAAAAAGBG C CAACCGGGGAAAAAAGGAAAAGGAAGGGGAAGGAAGGAAAA C CAAGGGGAGAAGGGAAAAGGAGGCCGACGAAGGGGAAAAAA G G G G C C A A A A A A G G A A A A A A A A A A G G G G A A A A A A A A G G G G G A G GAAAAGGGGGGGGGGGGGGAGAGAAAAAAAAGGAACCAAGG G G G G GCGGGGGGCCGGAAAAAAGGAAGGGAGGACGAGAAAAA ATGAAACCACGGGGAGGGAAGGAACCGGGGCCCCCAAGTTAG A A G A G A G G A A A A $\mathcal{A} G G G G G A A G G A A G C A A G G G G A G A G A A G G G G$ G G G G T T A A C G C G G G G G A A A A G G G G A C A G G G A G A A G G G G G A G G AACCAAGAGAGGCGAGGGGGAAGGGGGGGGGGGAGGCAAAAG C CAGGGAGAAAAAGGGGGAGGGAAGGAGTTCCGGGGAAAAAA A G G A G G G G C A A GA $A \operatorname{A} A G G G G G G A C C G G A A C C A G A A A A A A A G G G$ A A G G G A G G A C C C G G G G G G A A C C A A C A T T C CAACC G GA G GAAA AAAAGGGGAGGAAGAGAGAAAAGGGGGGGGCCGGAAAAGGAA A A A A A A A A A A G G C A A A C A A A A A A G A A A A G A A A A GA G G G G G A A AAAACCGGACGATTAAAAAAAACCAAGAAGCGAGGAAGGAGA AACACCGAACGAGGCCAAAAGACCAGGAAACCAAGAAGAGAG GAAACCAAGAAACCGAAAAGGGGAGGAAGGCAAGGAAAGGAC GA $A \operatorname{GGG} \operatorname{GC} C A A G G G G A A G G G G C C A A A A G G A A G G A G G G A A A G A G$ C G C C G G G A A A $\mathcal{A} A G G G G G G G G A A G G G G G G A G C C C A A A G$
GAGAAAAAAAAGGAAGGGGCCGAGGAAGGAAAACCGGAGGG CAAAGGAGGAAAAAAGAAAAGGCCGGGGGAAAGACCGAAAAA G G G G A A A A G G G GAA $A$ A ATTCCGGAAAAGGAATTGAGAGGAACAC $C \subset G G A A G A A G A A G A A G A A A G C A G G A G G A A G C A A A G A G A G G A G$ C CAAGGGGCCAAGACAGAAAGGGGAAGGCCAGAAAACCGGGC G G GACAGGCAAAAACCCAAGAAAAAAGAGGGACCGACCAGCC $C A C C A C A C G G C A G G A C A A G G G G G G G G G A G A A C C C A A A A G G G G$ $G G C C A A G A C A G G G G A A G G A G G C A A G G A G T T A G A G A G C A A A A G$ A G G G G G G A G G C C G G A A G A G GA G A A G G A A G G G G A G G G C C G G C C G G A A G A A A $\mathcal{A} G G G G G G G G G A A T T A G A A A A G G A A G G G G G G C C A A$ G G G G A GC C A G A A A G G G A G G GA G C C C CAA A GAA G G A A G G C C G G $C \subset A G G G A C G G A A C C A G A A G A A A A G G A G G A C G A A G A A A A A G G G$

ACAGAGGGAGGGGGGGAGGAAGGAGGGAGCGGAGCAAAAGAG
 A G G A G GA G G GCCA G GAGGACACGGACACGGGGAGACGGAGCA A GAAAACCGAGAGAAGCGAAGGACAGAAAGGAAGGGGAAAAG A G GACCGGGGCCAGAAAGGGAAGGCCGGGGAAAACAAAAGCC C CAACCAAGGAAAAGGACGGGGGGAAGACCAAAAGGGAAA GA AACCGGAAGAAAAGGGAGAGCCGGGAGAGGAACAAGAAAAGG G G G GAACCGAAGAGGAAAGAAGGGGGGAAGAAACGGAAAAAA GA $A \operatorname{A} A G G G G G A A G G G G C C G G A G C C A A G G A A G G G G G A G G A G G B$ AAAAAGGGAGAGGGGGAGAGAGCCGAACGGGGGGGGGGAGAA A G G G G A G G G G G GAA A G G A G A GAA A A G G GAAACA A GA GAC GA A
 G G G A G G A G A A A G G A G G G G A A G G G G A A G G G G A G A G G A A G A G G A GAGGGGAAAAGGAAGGAAAACCGGCCAAAACCAGGGAAGGGAA GAA $A \operatorname{GA} A G A A G A A A A G A A A A G G T T G A G G A G A G G A A A G G G G A A$ $A C G G A G A G A A G G A G G G A A C C G G G G G G G G A G A G A A G G G G A G A A$ G GAAACGAAGGAGACGAGAAAAGGCCAAAAAGAGGGAGGGCC GAAGGAAGCCAGAAAAAGAAAAGGAAGGCCAAGGAGGGAATT G G G G G G A A A G G A A TAAA A A A G G A A A C GA GAA A GAA G G G G A G G A A G G G G G G G A G G G G G A A G C C C C A GAGCAGACACAGA GAAA G G ACGGCAGACCAACCGGAAAAGGAATTAAGGCCAAGGCCAAGG G G A A A A A G A GAGGGGAGGGGACGGAAGGGGAAAAAAGAAAAG $A C C A G G G A C C G G A A G G G A G G A G G G A G A A A A C C A G G G A A G G G G$ A GAA A G G G A GAA A G GAGAAAAAGAAACCAAAAGGGGAAGGAA A A G G A A G A GAGAAAGGAGAACAAGAGGGGAAAGAAAGAGGAG G G A T A A G G G G G G G G G G G G A A G G A A G G G G A A G G C A A A G G A G C A AAGGAAAACGACGGGGCAAAGAGGCCCCGGAAAAAAAAAAGG
 A GAACAAAGGGGGGGGAAGGGGAAGAAGAAAAGGCAAGAAAA TAATAGAGCCACCAAGAGACGGGGAAAGCCGGAGAAACAAGA GAGGGGGGCCGGAACCGACCGGGGGGAAAAGGAAAACACAAG GGCAACGACCGAGGAAGGGAGGCCAAAAGGAGGGGATAAAGG G GAA A G G G A A A A G G G G G G A A C A A G G GAC G G G G A A A A A A G G A G
 G GAGCAGAACAGAAAAAAAAGAGAAAGAAAAAAAAGAAAGGG A G A A G G G A G G G GAAAAACCGGCAAGAGGGGGAAGBAAAA G GA G GACCGAAGAGGAGGAGGGGGAGGGAGAAGGACGGGGGGGGGA G GAAGGGGAACAGAAAAAGGAAAAAAGGAACAAAGGGGAAGA G G G G A A G GCCAAAAGACCGGCCAGACGGAGACAAACAAAAAA A A G A G G A A G G G GAA A A $\mathcal{A} G G G A G G G A G A A A T G G A C C A A A A A G G$ C C G GAA A A G G G GATGGACAAGGAAAAAAAAGGAATTCCAAGG A A A G G A A G G G G GAA A C GAGGGCCCAAACAGAGAGAA GA G GAA AAAAGGAAGGGGGAGAAACCGGACGGAAAAGAAAGGAAGAAA ATAAGGAGAAAACCAACAAAGGCCAAAAGAGGGGAAGGCAAG ATGAAGAAGAAGCCGGGGAGCGGGGAGGGGCCGGAAGAGAAA A A G A G G G G G A A A A A A A A A A A G G A A A A G GAGGGCCA G G G G G A A GACCAGCAAGGGGGAGAGGGACAAAGTAAAGGCCAAAGAAAG A A GAAACCGGAAAAAAAAAGAGAGGGAAGGCCAAGGCCCAAA G G GAAGACCCAAAGAGAAAAAAAAGAGGGAGGGAAGGAAAAA
 GAGGAAGGAGACGGCCGGGGCAAGAAGGGAAAAAAAAGAGAA A GAAGAAAGGCCAAAACCCCACGGCCACAGCCGGAGAAGAAA G G C C A G G A G G A A A A A G A G G G A A G G G G G G A A G G A A G G C C G G A A A A G G G GAAAACCAAAAAAGGAAAAGGAAAGGGGGGGGGAAGA G G G G A A G A G G G G A G C C A A G G G G G G A A G G G G A A G A G G A A A G G G A A G G A A A A C G A GA G G G A GAGGAAGAGAAAGGAA GAACA GAA G G G G A G G A C C G A G G G A G G G A G C C A A G G G G A A GA G A C C A T G A G G $A G A A C C G A G G G A G A A G G G G G A A G G A A A A G G A A G G A A A G A A G A$ A G GAGAGGAAAAAGAGATGAGGAAGAAGCAAGGGAGGGACGG

AA G G GAAAAGAAGGAAGGGGAAGGAAAGAACCGGAGGAGAGA G GAA A G G A GAAA $A \operatorname{A} G \mathrm{G} A A A A A A A G G G G G A G G A G G A A G G A G A C A G$ G G G G G A G G GA GAG GAA A A A A A A G G G G GAAC GACA A G GA G G G A A GAGAAGGGCCAAGAAGGGAAGAGAGGGGAAATCCAAGAAGGG GAGGCCGGGGGGGGAAGGAGAGAAAGAAGGGAGAAAGGGGGA A GACAAGGGAGAAAAAAAAAGGACGGAAGGGGAAAAGAAACAC
 $G G A A G G G G A G A G G G A G A A A G G G G A A A A G G G G G A G A A A A G G G A$
 AAGGAAAGAGGAAGGAAGAAACAGGGGCAGCAAGAGAGGGAA G GAAAAAAGGACAAAAGGAAAGGAGAAGAAGGAACCTXGAGG A A GA $\operatorname{A} A C C G G A G A G G A G A G A A C A C G G A G G G A A G G A A G C G G C C$ A A A A G G A A G A A G G G G G G G G G A A G G G G C A A G G A A A A A G G G G A A A A A G G A G A A A G G A A G G G G G G G G G A G G A A C C C C C C C C C C A A G G A A G GAA A GAAAAAAAACCGGAGCCAAGGAAGGGGGGGGAGAA T T G G G GAA $A \operatorname{GA} A A A G G G G G G G G C C C C A G A A A G G G C C A G G A A A$ C C G G G GAA $A \operatorname{GCCA} A A G A A C C G G G A G A G G A A A A G A G A A A A C A G$ A GATAACCAAAAAGAAGGGAAGAGGACAGGAAGGAAGGAGAC GAAAAATTCAGGGGGGGAAAAGAAGAAGGAAGGAGCGAAAAA A A A G A A G G G G A A G A A G A GCCGAGGCC GAGGCC GAA GC G G G G A AGGGGGGGGGGGAAAAGGAAAAAAGGAAAACCAAGGAAAAAA TACAAAAAAAGGGGGGGGGGAAGGAAAAGGGGGGAAAAAACC A A C C G G G GCC G G G G A A A A A A A G A A G G G G G G G G A A G G C C G G A A G G A G A A A A A A A A A G G A A A C C A G A G G G A G G G G G G GAC G G C C G G
 GACCGGGGAGGAAAGGCAGACAAAGGGAAAGGGGAAAAAAAA G GAAAAAAGAAGGACCAGGGACGGGGGGGCAAGGGGCCAAGG G GAA A G G G A GAA A A A GAGGGAAAAACCCGGCCGAGAAGAAGB G G G G A A A A G G G GAA $A \operatorname{GGGGAAAAGGCCGGAAAAGGAGGAAAAG}$ G G G G G G G G G G G G GAAA A A A A A GAAA A A GACGGAGGAACAAAA AAAAGAGGCAAGAAAGCCAGACAAGGAAGGCCAACCAAGAGAA AACCGGGCACGGAAAAAGGGAGCCGAAAGGAAAAGGAAAAAA G GAACCAAGGAAAAAAAAGGAAGGGGAAAAGGAAAAGGAGAA A A A A G G G G A A A A A A G G G G A A A A A A G G G G T T G G A A A A A A G A A G
 G G G G G GAA A GAAGACCAACCGGACAGCCAAAAGGAGCCACBG CAAAAAGGAGGGAAGGGGAAAAAAGGCCAAAGGGCAACAGGG A G G G G A A G G G G GA $A$ A $\operatorname{A} C C G G A A A A G G A G G G G G G G G A A G A G G G$ CAAGAAAACCGGGGGGGAGGAAGACCAGAAAGAGAGAAAGAG G G GA $\operatorname{G}$ GAAAA $A \operatorname{A} A A A A A A A T T G G A A A A G G G G G G A A A A A A A G A G$ A A A A A A G A A G A A A A C CAGAAGGGAGAAGAGGGGGGGAA G G GA A GAA $A \operatorname{GG} \operatorname{GAA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A A A G G G G A A A A A G A G G A A G C A A A A G A A$ GACCGAACAGGAGAAGAGGGGGGGCAAGAAGACCGACCGGAC A GAC C GAAA $A \operatorname{A} A \subset C A G A A G G A A G G G G G G A A C C A A A C C C G G G G$ A A G A A C G G G G A A G G A A G G G G A A G G A G G G A A GAA A G G C A A G A A G G G GCAAATAAAAACGAGAACCAAAAGGGGAAGGGGAACCBG A A A C G G A A A A G GA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GAGAGAGACACCCACAGGGA
G GAGGAAGGCCAAGGGGGAGGGAAGAAGGAAGGAAGGGGGG A A G G G G G G GAACGGGAAGGAGGGGAGGGCCAAGGCCAAGAAA A A A A A A $\mathcal{A} G G G G G A A A A G G G G G G A A C C G G A A A A A A A A A A G G A A$ AAAAGGGGAAAAAAGGCCAAGGAAAAGGGGAAGGGAAAAAGG AA G G A A A A A A A A G GAAGGCCCCGGGGAAGGAAAACCGGAA G G A A G G G G A A A A C C G GAA $A \operatorname{GGGGT} T A A A A G G C C A A A A A A C C C C G G$ G G G G G G A A A A A G A A A A G G G G A A A A G G G G A A A A A A G G G G A A G G G G G GAA $A \operatorname{GAAAAAAAAAAAAGAGGAAAGGGAGAGGAAAACCGG}$ GAGACCGGGGAAGGAAAAGGGGGGGGGGGGCAAAGBAACACC A G G G G A G G A A C C G G G G G GCCAACCAGAAGAGGAAGGCCAA G G $G G G G A G A A G G A G G G G G A A A G A A G G C C G G A G G A A A G G G C A G A A$ AGAGGAGGAAAAGAGGAACCAAAAGGAAAAGAAAAGAGAACC

A G GAGGGGTTAGCCGGAAAAAGGAAAGGAACCAAAAAAAGAG A GAGAAAAGGGGAAGGCCGGAAACAGAAAAGAGGAAGGCCBA GAGAAAAAGGAAGGGGGGAAAAGGAAAAAAAACCAAGGAAAAG GAAGGAGGAAAAAGAAAGCAAAAGCCGAAAAAGAGAGGAAAA GGCCAAAGGGAAAAAAAAGGAAAAAGGAAAAAGGGGGGAAGA G GCCAGAGAAAGACAGAGAAAAGAGAGGCCGAGGAAAAAAAA
 AAAAAAGGAGAAAGGAGGAGAAGGAAAAAAAGCCGGAAGGAG A A A G A A A A A G A A G A A A G G C CAA $A \operatorname{AGGGGGGGAAAGAAGGCBAA}$ $C \subset C C A C G C A G A A C A A A C A G G A A A A A A G G G G A G A T A G C C G A A C$ G GCCAAAAAGGGGGAAGGGGGGGGGAAGAAAAAGGAAGGGGA G G G G G G A A A A C A G G A A G G G G G A G A A A A A G GA $\mathrm{A} A \mathrm{~A} G \mathrm{G}$ G G T T A A AC G A A A A A A GCCGAGGAAAGAGAGAAGGAAAGCCAGACAAGBG C C A A A G G G A GA GAGAGAAAAAAAGAAAACCTAA GAAGAAGGG G G G G GAAAAGAAACGGAAGGCCGGACGAAGAAGAGGGGAAAA G GACAAGGGGAAAAAAAAAAGGCCGGGGAAAAAAGGCCGAAA C C A A A A A A A A T T G GAAGGGGGGCCAAGGGGCCACAACCAAGA
 AAAAAGAGGGGGGGCACAGAGGACGGAAAAAAGAAGAACACA C C A A A A A A A C G GAGAGAAGGCAAAGAGAAAACGGAGGGAAAA A A A G G G G G G GAAAAGGGGAACCAAAAAAGGAGAGGGAAAAGA GAGAGAAAAAGGGGAAAACAAAGGCAAAAAACCAGGGGCCGG A A A A G A G G A A G G G G A A A A A A G GAA $A \operatorname{AGGGAAAAAAGGAAGAAA}$ G GAAAAGGCCAAAAGGGGTTGGCCAAGGGGAACCCCGGAAAA GGCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGGAABAAA G G A A G G G G G G A A G G G G G G G G G G T T A A G G G G A A G G A A G G A A A A
 G G G G A A A A G G G GAAA A GAAAAAAAAAAGGAAGGAAGGGGAGAA $C \subset G G C C G G A A A A A A C C C C G G G G G G A A C C G G G G G G A A C C A A G G$ G G G G G G G G G G A A A A A A A A G G G G G G G G A A A A A A A A G G A A G G A A A A A A C C G G A A G G G G A A G G A A G G G G G G A A C C G G A A A A G G G G G G A A A ACC CGGGAATTGGAAGGGGAAGGGGGGAAAAGGAAGAAA G G G GCC C G A A A A G G A A G G G G A A G G A A G A G G G G G G G G A A G G A A G G G G A A G G G G A A G G A A G G A A G G C CAAG GAAAAGGGGAACAAA G GCACCGGGGAAAACCGGAAACAAGAGGAAAAAACCAAAAAG GAAGGAGGGGAAGGCCGGACGGCCAAGGAGAAGGCCGGAGAA A A A A A A A A A G A G G G A G G G G G A A G G G G A A G G G G G G A A G G G G G G A G G GAGAAAACCAAAGGGGGAGAACCGGCAAGAACCGGAGGG A A A A A C A A A A G G G G GCAGCAAC GAGAGGCC GAG GAGGGGGGG GAAGGACCAGGACCGGGGAAAAAGACGGGGAAGGGAGAACAA GAGGCCGGAGAAACAAAAGGAAAAGGAAGGCAAAGGAAGGAA GAAAAAGAGAGGAAGGAAGGAACAGACAGGCCGAGGGGAAAG GGCCGACCAAGGAACCGGAAAAAAAAGAGGGACCGGGGAGAA GAGGGGGAAGGGGCGGGGGAGGGGGACCCAGGGACCGAGAAA A A T T A G G C G G G G G G A A A A A A G G A A G G A A A A G G A C C A A A A A G A G G G G G G A A G G G A G G A A C C G G G G C C T A G G GAA A A A GATAAAAC GAGGAGGGAGGGGGGAGGGGAAGGCCAAGGGGAAGGAAAAAA A A A A A ACCAA $C$ A A A A GAGGAAAAAAGGGGGGAAGGGGAAAAAA G GAGGGCCAAGGAAGGAACCGGGGAAAACCGGGGCCAAAAGA G G A A A A A A G G G G G G C C G G G G A A G G C C A A C C A A G G G G G G G G G G G GAA A GAAAAAAAAAAGGAAAAGGGGGGCCAACCGGAAAAAA G G G G G G G G A A A A A A A A G GAA A G G GAACCGGAAAAGGGGA A A A G G A A A A C C A A G G G G G G A A A A A G A A A A GA G A A G A A A G G G G A G G G G G G A A A A A GACCCAAGGAACCAAGGGGGGAAGAAAAAGGCC A A G G G GCAGAGAAGGGGGAGAGACGAACGGAAGGCCGGAAGA A A A A ACACAGAGAGCAACAGAGGAAGGGAAAGACBAAGAAGB A GACA GAA $A \operatorname{AGGAACAGAGAGACAAGGGGAAAGGGGAGGAAAA}$
 GAAGGGGGAAAAGGAAGGAAAGGGGAAAAAGGAAAGGGAGAA

GAGGGAGGAACCGAAAGGGGGGGGAACAAAAGGGAGGGGGGG
 GAGGCAAAGGGGAAGAGGGGGGCCGGAAGAGGGGAAAAAAGA G GAGAGAAGGGGGGAAAAGGAAGGAAGGAGGAGAAGGAGAAG A A A A A GAAAAA $A \operatorname{A} G \mathrm{G} A \subset A A A G A A G G G A G G G G G A G A A A G G A G A A$ G GAGGAGAGAAAGAGAACAGGAAGCCGAGGGGAAAAGGAABAA GAAAAGAGCAGGAAAGCAAAAAGGGGGAGGGGAGGAAAAAAG $G G C C G G A G A A A A A G G G A G G G G A G G G A A A G G A G G A G G A A G A A A$ CAAAAAGGGAAAGAGGAACAGGGGCCGGAAAGAAGAAAAGAG A G G GAAAAGGAAAGAAGGAAGGGGAAGGAAAAGGGAGAAAGAG A A C A G G G A G G G G G A G G GACAGGAAGAGAAGACAACAA GACAA AAGGAGCCGAGAAGGAAAGAACGGAAGGCAGGAGAGGAAACC GAGGGAAAAGAAGGGAGGAAGGAAAGAAGAAAGGAAAAAAAG G G G GAAAGGGAGGAAGGAAAAGCCCAAAGAGAGGAAAACCAG GAAGAGCCACCAAGAAAGGGGGAGCAGAGGAAGAAAGAGACC GAGGAGAACCAGAACCGGAGACGACCGAAGAAAAAAGGGGGG G G G GAAAAGGAAGGAAAAGAAGCAAAGGGGAAAAAGAGAA GA G G A A G A G A G A T T G A G G G A G G A A G A G G A G G A A A G G G A C C A A A ACAAGGGGGGAAACGGAGCCGAGGAAGGAAGGGGAGGGAAAA A G G G G A G G A C G A A C A G A GCCGGACAAAGCCAGGAAAA GAA G G G G G G G GATGGAACCGGGGGACCAAAACCAGGACCGGGGGGAA G G G GAAAA $A \operatorname{A} A A \operatorname{A} \operatorname{A} G \mathrm{G}$ GAAAAGGAGACGAAGCAAGGGAAGGGG AAAGAACCAAGGGGGAAGGAACGAAACAACCAGAAGCAAAAA $G G A A A A G G C C G G A A G G G G G G G G G G G A G G G G G G A A G A G A A G G G$ A A G G A G G G G G G A G G A A A A G G G G A GAA A G C C A G A A A A A C G G A A AAAAAGGAGAAGAAGGAGAAAAAAGAAAGGGGAGAGGGAGAA GAGGAAGGAAAAGGGAAGGAAAGAAGGGGGAGACAAGAGAAC GAGGCCGGAAGAGGCCAAGGCCACGGGGGGGGGGGGGGGGGA G G GACCGGACAAGGAGGGGAGGGGAAAAAAAACCACAAAAAA $G G A G A G A G G G G G A G G G A G G A A G G G G A C C C A A A G A C A G G A G A A$ $A C G G A A A G A A A G G G C C A A A G C C G G G G G A A A A A G A G G G B A G A C$ AAAAGACCAGGAGGGGGAGGAAGGCAGGGGGGAAAAAAAAAA GAGAGGAACCAAAGAAGGGGGGGACCGGAAAAGGCCAAGGGG A A A A A GAAACGAGGAGACGGAAGGAAACAGGAAGAGAGAGAC
 A A A G A G G G G G A G G A G G G G G G G G A A G G G G A A G G G G C C A A G G G G
 A A GAA A G G G G GAA $A \operatorname{AGGGGGAAGGGGAGAGGCACAGACAAACC}$ ACGAAAGGAACCGGAAAAAGCCGGGGAAAAAGAAGGGACCAA A A A A A A A A CAG GCCGGGGAAGGAAAAGAAGGACCAAGEGACC A A A G A A A A G G G G A A A A GAAA A GAA A G A G G G GGGGCATAAAAC GACACAACAAGGAGAGAAAAGGAACCGGGGAGAACAAAGGGG GAGGGAGGAAAAGAGGGGGGGAGGAAGGAGGCGGAGACGGGA AAGGGGGGAAAGCCGGAAAGAAAGAAAAAAAAGAAGCAAAAA GAAGAAAACACAAAAAACACGAAAAAGGGACAGGAAAGAAGAG A A A A G GAA $A \operatorname{GG} \operatorname{GAAAAACAGGAAGGAAAAAAGGACGGGGGGTT}$ G GAA A A $A \operatorname{G} G \mathrm{G} G A A A A A G A A A G G G G A G G G G G G A A A A A G C$
C G G G G G A A GAAAAAAGGGGGGAGAAGAGAAGGAAACCAGGG $A A C C C C A A A G C A A C G G G A C X A G G G G A A G A A A A G G G G G G G G G G$
 AAAAAAAAAAAAAAGCGAGGGACAAAGGGAACAGAAAAGAGG GAAAAAGGGGGGGAAAAAAAGAAAAGCCAAAGACGAGGACAA AAAAGGGAGGAGGGAAAAAAAAGGGGGGAACCAAAAGBCAAA AAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGGAAAAGA ATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G G A A G G G G G G A A A A $\mathcal{A} G A A G G C C A G G G G G A A G G A A G G G G G G$ G G G G G G G A A GAC A A G G G G G G A A A GAGGGCCGGAGAGA GAAAA A A G G G G G G A A A A G A A G C C G G A A A A CAA A A C G G G G G GA G GAAA A AAGGGGGGGGGGGGGGAAAAAACCGGGAAAGGACGGAGCATA

G G G GCAAGGGGGAAAGGGCCGAGAAGGGGGGGAAGGAAGGCC
 CAGGCCCCAGAGAAGGAGCCAGGAAGGGAAGGAGGAAAAAGAG $C C G G A A C C G G G G G A C A A A A A G G G G G G G G A G A C G G G G A G A G C C$ ACGGGGGGAAAAAGCAGGCGAAAAGACAAGAGAAAAAGAAAA $C \subset G G A A A G G G A A A A G G G G G G A G A C A G C C G G A G G G A G G A A A A G$ A G G G G GAA A G G G G GAAGGCCGGCCAAAAAAAAGGGGCAAAAA G GCCGGGGGGGGAAAAAAGGGGAACCGGAACCAAGGAGGGCC A A A A A CAGCACCAAAAAAGGAACAGGAGGGACGAGGGACCAG AAAAGGCCGGCCACCCGGAAGGGGAGAAGAAAAACCGAAAGA G GAACCGGGGACCAAGCCCAGGAAAGGGAAGGGGGAGAAGAA $A C G A G A G G G A A G G G A A G G A A A A A A G G G G A A A A G A G G G G G G G A$ A A C C G G G G G GAAAAAAAAAGGCAGAAGAAAAGGAGGGGGAA GA
 AAAAAAAAACAAGGGGGGAAGGGAAAAGGAGGGGGAAGAGGG GGCCCCAAGAGAGGGGCAGAGACCGGAACCAAGGAAAGAGAAA
 AA $\mathrm{A} G \mathrm{G}$ GAAACAAAAAACCGGAAAAACGGAGAGGGAGAAACAA AAAAGAGAAAGGGGAGGGGGAACCGGAACCAAGGAAAAGGGG G G G G A A A A A A T T G G G G G G A G G A A A G G A A G G C C G G G G G G G G A G GAGGGGAAAAAGGGCCCCGGTTAGGAGGAGGGGGCCGAAGAG GAAAAAGGAGACAAAACAAGGGCCAGAAACCCGAGGGGGGGA GA $\operatorname{G} G A A C A G G G G G G G A G A C A A A G G A G A G G G G G G G G A G G B A A A$ A A A A A GAA $A \operatorname{AACCCCAGAGAGAAGGGGAAGAGGGGAAGGAAAA}$ A A G G C C G G G G G C G G A G A A A A A A A A G G GAA G G GAGAAAAAAAA G G A A A A A G G G G GAA $A \operatorname{GGG} G \mathrm{G} A C C A G G A G A G G G A A A G G A G A G A G$ GAGGAGAAGGCCAAGAGGGAGAGGAAAGGGAAGGGAAGGGGA GAAAGGAAAGGGGAAACCGGTTAGCCAAAGGGAAGGAAGAAA C CAAAA A A G GAAGAGGCCAAAAGGAAGGAGGGGAAAAAGGAG G GAAAAAAAGAGGGGGGAGGCAAAGGAGAAGGAGAAAAAAGAG A A G GCCGGAGAAAAAGAGAAGAGGGAGAGGGAAA GAACACAC G GAGGGAAGGAAAACCCCGGGGAAGGAAAAGGTTAAAAGAAT AAGGAAGGAAAACCCCGGAGAAAGCAAGATAAAAAACCGGAA AGGAAAGGCCAGAAAAACCACCAACCAGGGAGCAAAGGAGAA
 GC G G G A A G GAGGGAAAGGAGCAAAGGAAAAAAACACGGGGGG AAAAGGCCAAAACCAAACGGGGGAGGGGAACCAAAGGGAGAC G GAGCAGGGAAGCAGGAGGGGAGAGGAAAAAAAAAGAGGGGG A A A A GCA $\mathrm{A} A \mathrm{~A} G \mathrm{G}$ GACAAGGGGAAAAGGCCGACAGGAAGAAAAG GAA $A$ A $A C A G A A A G G A A G G C A C C G G A A G G G G T T G G B A A G G G G G$ $G G A A C C A G A A A A G G G G A G C C C C G A A G A A G A G G A G C A G A G G A G$ A G GAAAAAAAGGCAAGAGGGTACAAAGAGAGCCCGAACAAAA AAACAAGGGAGGAACCAAAGGGAGAGCCGGAAAAGAGAAACC GACACCAAAGGCAAGCAAGGAGAAAGAAGGGAGGAGAGAGCG GACAGGAGGACAGACAGGGAGGACGCCAAAGAAAAAAAGGCC C CAC G A A A A A GACCGGCGAGGACAGGACAAGGGGAAAAAAAA C C A A G G G G G A G G G A G G C C G G G G G A A A G G A A G G G G G G A A A A C C AAC C TAAAGGACGGAGAAGGGGAAGGAGGGGGAAAAAGGGGG G GAGAGGAAAAAGGAAGGGAAAGGAAGAGGGGGGGGAAAGAA C C GACAAACAGGAAGAGAGAGGGGGGAAGGCCGGAAGGAAAA G G G A C A A G A A A G G G G G A GAGGAAGCAGGTTAGGGCCGGAGAA A A GAA A G G G GAGGATAAGGAAAGAAAGGGGGCCAAGGGGAAAAA A A G G A A G A A A A A G A A A A A A GAA A G G G G GAAA A A A G G G G G G A A G G G GAAAGACAAGGACGGAAAGAAAAAAAGAGCCGGGGAGCC AACGGGAACAAGAAAGAAAAAAAAGGAAAAACAAGGAGAGGG $G G A A A G A G G G G G A A A G C C G A C C G G G G A A A G A G A A C A G A G G G G$ $A C C G A G C A G G G G A A G A G G A C A A G G A A G G G G C A G G A C A A A G A A$ A ACCAGAAACAAGGAAAACCCAGCAGAAAAGGAAGACCCCCC GAAGAAAAAAGAGGAAGGAAGGAACCAAGAGGACGGCAAGGG

A A G G A C G A G G A G G G G A G G G A G G G G G GAAGGGGAAAGGAAAAA G GAA A GAGAAAGGGAGGGGAAAGGAAAGGAGAGGGAAAAA G G $A$ GAACAAGGAAGAAAACAAGGAAGGCAGAGGGGAGAAAAAAAG AAAGAGAAAACCAAACAGGAGAAGAGAAGGGGAAGGTACCAG G G G G G GAAA A G G GAA A A A A GAAAAAGGAAAGAAAGGAAACAC G G G G G A G G A G G G C A A G A A G G G A G G A G A G C C C C G G A A C C G G G G C C G GCCAGACAAAACCGGGGGGAAAAGGCCGAAGAGAGAGAA AAAGGACCGGGGGGCAGACCAAGGGGCCAGGAAAGGAGAAAA A A C A A A G G A G G G G G G G C C G G A A G G G G A A G G A A A G G G A A G G G A A GAAGGGGCCAAAAACGGGGGGGAGGAACCAAGGGGGGBAAA G G G G A A G A C G A GCC G G G GAAGGGGAGAGGGAGCCAGGGAGAA G G G A A A G A A A A A G G G G G GAGGGCAAAAGACAGGAAAAAACAA G G A C G G G G G G G G A C A G G A G A G G G G G G G G G A G G A A A $\mathcal{A} A G G G G G$ G G G G A G G G GACAGGACAAGGAAAGGGACAAGAAAAAGAAGAA A A A A A G G G G G G G G G G G A A A A A A A G G GAAAAA A $A$ A A A A A A G G G G GAGGAAAGGAGGGGGAAGAAAGAAAGGAAGGAGACAGABAAG G G G A A C A G A A G G GCAAA A G G G GCC G GCCGGGGA GAAAA G G C C
 AAGAGGGAGAAGAGAAAACCGAAAGGGGGACACCAAACAAAA GAGAGGAGAAAGAAAGAGCAAAAGGGGGGAAAAAGACCAAGG GAAAACAAAGGGCCATGGAATTCCAAAAAGGGAACCAAGGAA G GCAA $\mathrm{C} A \mathrm{~A}$ GAGAGGGAAAGGTTAGAAGGAAGAGGGGGGAACA AAAGGGAAGGGGAAGGGAAGCGGACACCGAAGAGAAAGAAGG A G G G A G G A A A A G G A A A A C C CAA A GAA $A \operatorname{AGGGAGAGGGAAAAAA}$ G GAGAGAGGGACCCAAAAAAGGAAGGGGGGAAGGCCGAAGAC $C \subset C A C C A A G G A A A A A A G G C C C C A A A A G A G A G A G A C G A G A A A G$ A G G G GAAAAACCGGCCCCGAGGAGGGAAAAGGAAAAGGGGGG A A G G G A GAGGAAATGGAAAAGAAGCAGGAACAAAGGGGCCGG A A G G A A A A G G G GAAAGACCCAAACGGAAGGGGGGAAAAACAC G G T TA TAAAAGAAGAGGAAGGGAGAAGGGGCAAACCGGAAAA C C G G G A G A C C G A G G A G A A G G G G A A A A C C G GAACCAAAAAAAA GAGGAGAAAGGGGGAAAGAGGGCAAAAAGGAACCGGAAGAGA A A G GAAAAGGCAGAAAGGAGGAGGAGGGAGAACCGGAAAAGG A G A A A A A A C C G A A GAGACCCAAAAGGAGGGCAAAAAGGAAGG $A G G G G A G A A G A A G G A G A G G G A A A A A A G G G A G G G A A G A A A G A A$
 G GAAAAAACCAAGGAAAGGAAAGGGGAGGGAGGGAAAAAAAG GACAGAAAGGGACCGGAGAGCACAGGGAGGGAGGGAAAAAGA
 A A A A G GAA A A GAAAGGAGAAGGGGAGAAGAAGACAGAABAAG
 A GCC G GAA A G A G G G G G A A A A GACCAAGGCCGGAACCAAAGCC AAGGGAAAAGAAGGGGGGGAGAGGGGGGGACCAGACGAAGGG A G G G A A C C G GA GAAGAAAAGAGCCAAAAGGAGGGGAGAAAA G G GAA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} A C A A A A A G A A G A A C A G G G G G G G A G G A A G G G G A G$
 G GACAGAAAAACCCAGAAAAAACCAAGGAAAAAAGGG
G G GACAAGAGGGGAGAAAGCCCAGACAGACCGGAACAGGCC G GAAGACAAAACGGGGAAGGCCAGAAGAGGCAAGGGGAAGAC CAGGGGGGAGGAGGAGAGAGCAAGAAAGGGGGGGAGAAGAAA
 G GCCGGAGAAAACCGAGGGGGGGAAACACGAAGACAAGATAG G GAAGGAGAAAACAAAAAAAACGGACCACAGAGAGGGGAAGG G G G G G GCAAAAAAAGGGGAAGAGAGGGAGGAGACAGAAAAAA GAAGGGGAAAGAGGGGAAGGAAGGGGGGGGAGAAGAAGCACA $G G A A G A A A G G G G A A A A G G A A G G A A C A G G G G A A C A A A A A G A A G$ A G GAGAAACAGGAGGGGGAAAGAAAAAAGGAACCAAGGAGAA AACAGCGGGAGGAAAAAAGGGAGGGGCCAAGGAAAAGGAGAA $G G A A A A A A G A G G A A A A A A G G C C G G G A G A A A G A A G C G A C A G A A$

G GAAAGGGGGGGGGAACACCGAGGAAGGACAACCAGACGGGG A A A A G G G GCC G G A A G G G G G G T T A A C G A A A GAA A A A A A C G A A G A GAGAGAAGAAGAGAAAAAAAGGAAGGAAGAAGAAACAAAAA
 $A C C C A A A G G G G G A C A G G G A A G G A A A A A A G A G G A A C A G A C C A G$ A CA $A$ A A A C A G G G G G C A A A A G G G A A GAA A A A A GAAA A A A T TA A A A GAGGCCGAGGGGCCAGAGGGCCGGAAAGAAGAAGGACCBG AAAAAGGGGGAAGAAGAGGGGGGAGCGGGAGAGGGAAGAGAA G G G G A A A A A A A A A GAACCGAGGCACACAAGGGGGAAAA GAAG G G GAAAAGGGCCAGGAATAAGAAAAAAAGGGACCAGAAAAAA CAAAAAGGAGGGCAGAGGGGAAAGCCAAAGGAGAGGCCCCBG GAAACCGGGGACAAAAGGAACCGCCAAGCAGGACACGGGGAG A GAAAGACAAAGAAGAGGCACAGGAAGGAGAGAGAA GAGGCC
 ACGGGAAAAGGGAAGGGGCCGGAAAAACAAAGGGAGGGAGAA $G C C A A G G A C C C C A A C C G G A A A A A A A G G G G G G A G G G G A A A G G B$ G GAACAGAGGGGGGAAAGCCGGAAAAGGGGAAAAGGGAAAGG AAAAGGGAGAGACCAAGAGAGCGGAAGAAAAGGAAAGGAGAC $G G A G A G G C G G G G A G G A G G G G A A T T A G A A G G G G G G A G A A C C C G$ A G G A A G G A G G G G G A C C A G G G G G A G G GCACACCAA G GAAAA A A AGAAAGGGGGAGAAGGAAAAAAGGGGGAAAAGAAGGAAGGTT A A G GCCAGAAGGGGGGGAGAAAGGCCGGGGCCGAGAGAGGAA AA $A G G G G A A A A G A A G A A G G G G A A A G G A A G G G A G G G A A A A A A A$ AACCCCGAGGAGAGAAAACCCCAAGGCCGGGGTTAAAAGAGA GACCGGGAGGAACAAACAAGAACAAGGAGGGGAAGGGGAAGA G GACGGGGACAAAAGAAAGGAAGGACAGGAAGAAAGAAAAAG G G G GAGAGGGCAGGGGGAAAAGAACGGGGAGAAAGGAGGGGA G G G A A G G G A G G G G A G A A G C A G G G A G G A A C A C C G G A C A G A G G A GAGAGAGAAAGAGGCAAGACCAGAGGAAAAAGGAGGGGAGAC $A G C A A A A C A G A G A G A A G A G G G G C C G G G G G A A G G G G A G G A G G A$ $G G A G A C G G G G A G A A A G G G G G A A G G G G A A A A A A G G A A G G A G A A$ AGGGAGAACCAAAAAAAAAAAGAGGGCCAACGGGGGGGGGGG G G G GA $\operatorname{l}$ AAAAGAGGAAGGCCAAGGGAAGAAGGAAGACAAAAA A G G GAA A ACCCCAAGAAAAGAGAACCGACCGGAGGAGGGGAA GAGGAAGGGAAAAAGACCAAAAGGAAGAAGGGGGAGAGAGAA A A G G G A G A A GCAA $A$ A A GGGGGGGAGCAAGAATTAAGAAAACAG
 A A G GAA $A \operatorname{GA} A G G A A G G G G A A G G G G A A C C G A A A C A G G A A A A G A$ A G A C G A A G A G A G A A A G A G G G G G G G A C G G G GCC G A A A A A A G G A G G G G A A C C G A G GA GAAAA A G G G GAGAAGAGAA $A$
$11029000-9$ A A G G G G A C G G A G G G G G A A C G G G GAAAAAAGGGA A AAAGAACCCCCCAAGGGGGGCCGGAAGGGGGGCCGACAGAAA C C A A A A G G G GAAAA A G GACCGGGGAAAGACAGAGCCGGGAAA $A G C C A A G G A A A G A G A A A A G G A A A G A G A C G G G G A A A G A A G G G A$ CAGAAAAAGGAAGGCCAGAGCCGGAGAAAAAAAAGGAAAAAA C CAAACGGAAAAGGGAAAGGAGGAGAGGAAAAACAGCCBGAAA G G G G G A G G G G G G G G G G G G G G G A G A A G A G G C A A T T G G A A G G A A A G GA A A G G GACCGGAAAAGAGGAACCGGAGGGCAGGCAAGAA
 CA $A$ A $\operatorname{A} G A A C C G A A A A A A A G A G G G A G G G G C C G G G C A G A A A A G G$ GAGGAACCAAAACCCCGGGGAAGGAAAAAGCAAAAGTTGGAA AA G GAGGGAAAACCAAGGAAAAAACCTTCCAGAGACGGGGCA AAAACCAAAAGGAAAACCAAAAGAAAAGAGAAGACCAGAAGA G GAAGGAAGGAAGGGGAAAAGGAGAAGGGGAGGACAACAGAA GAGAAAGACCGGCCGGAAGGGGGACAAGGAAAGAAGGGGGGG A G G G G A G A GAAAGCGGGGGGAAAAAACCAGGAAGAAAAGAAG G G G G G A A A G G G G A A G G G G G GAAACAAAGGAAAAAAGGGGACAA GA $\operatorname{G} G \mathrm{G}$ G A G C A A C C C G G G G G G G G G G G A G G G G A G C A A G A A A A A A AAGGAACAAGAAGGGGCCAAGGAAAAGGCCGGTTGGGAAAAA

A G GAGACCGGGGAACAAAAAGGAACATAAGCCAAAAGGGGGG GCGAGAAGGGGAAACCGAAGAAGGGACCAGGGGAGGAGCCAG
 G GCAGGGAAAGGGGCGAAGAGGGGAAGGGAAAGGGGAAAACC AAGGAAAAAAGGGGCCAAAAGGAAACGAGATAACAGAA G GAAA
 GAA $A$ A A G G A TA A GAAGGGAGCAAAACAAAAAAAAACGAGAGG A A G G G A A G GAAACCGGGAAAAGGGCCAGAAAACCAAAGAAGG G GAAAGGGAACCGAGAAAAACCGGCCAGGGAAGGAAGGAGAA G G G G G G G GAAAGAGAACCAGAAACCCGGGGGAGAAGGAAGCA AACCGCCACAAAAAAGAAGGGAGGAAACAAAAACAGAGGGGG AA GAAAGGAAGACCAAGGAAGAAGGGAAAGAAGGAGGGGGCA G G G G G G A A A GCCGAAAAAAGAAGGGGGGAAAAGGAC GAAAAG A A GAGAAAAAAAGGGGAATAACGGAGGGCCAAGGAAAAAAAA G GAAAAAAAATTAGAGCAAGGGGGAATTGGCAAAGGAAGACA AA $\operatorname{A} G \mathrm{G}$ GAAAAAAGAAAGGGGAAGGAAGAAGTAGGGGAAGAGA A A GAAA $A \operatorname{GCCA} A A G A G G G A A A A A A C C G G G G A A A A A C A G A G G G$ GACCAGACGGCCAAGGGGCCAGAGCAAGAAGGCCGGAAGAAA GGCCCCAACCAAGAAGAGAAAGAACAAGAAGGGGGGAAAAAA G G G G G G A T A A G G G G G G G A A A G G A A G G G A G A G G A A A A A CAA A A A A TAAAAGGAAGAGGGGGAAGGAGGGAGCCGGGGGGGGGGGG A G G G G GAA $A \operatorname{GA} A A A A A G G A A A A A A G G G A A C G G G C A G A A A A G G$ G G GAGGAGGGGGGGAACCGGAGAAAAAAGAGGCAGAAACCAC G G A A A G A A A GCCGGGGCCGAAAAAAGGGAGGGGGTAAGGGCA G GCCCAAGGAGGAAACAAGGAGAGAGAAAAGGGGGGGGAAAA AACCGGAAAGAGAAAAAGAAAACCAAGGGGCCCCGGGGAAAA AA $\operatorname{A} A \mathrm{~A}$ GATCAGAAGGGACAGGGAAACGAAAAAGGCCAGAAAA A G GA $\operatorname{l}$ GAGGGGGAAAAGGGGAAAAACGGGGAAGAAACCGGGG G GAGAGCGAAAAAAGGGGAAAAAAGGCCGAACAACCAACAAA AAAAAAAAAGGCGAGAGAGGGGAAGGAAAAAACCAAAAGGAA $G G A A A A G G G G A G G G A C G A G G A G G G A G A A G G A A G G C C C C A G A A$ G GAAAAAGAACCGGAAAGAAACGGAGGGAAGGCCAGGGAGGG G GAAAGCCAAAGAAGAAGAAAAAAGAGACAAGGAGAACAGAA G G G G A A A A A A A A A C A A C CAGGGGGCCCCAAGAGGCCAA GAG G A A G G G A G A GAACGGCCGAGAAAACAACAGAGGGACCAAAAGG AAGGGAGGAAAAGGAAAACCAAGGGGAAGGGAGAAGGACCGG G GAACAAAAACCAAGGAACAGAGACCCCGGCCGAGGGGGGAG GAAAAAAAAAAAAGAAAGGGACAGAAAGGGAAGAA GGAGGGG A A A G G GCCAACCCCGGCAGGAAGGAAGGGAAGGAAAGGAAAG G G G A A A G A A A G GAA A GCAGAGCAGAAGGAGAAAAGGCCAGAA $A G C A A C G G A A A A A A A A G G A G G G A A G G G G G G G G A C G G G G C C G G$ A A G G A A G G G G A A A A A G A A G G G G C C A A G G A A A A A A C C C A A G A G ACGAGGAGGGAAAAAAAAACAGAGGAACAGGGAGGGGGGGGG A A A A A A G G GAGGAAGGCGATGGTTAAGGGAAAAAAACCCAAA A A G G G GAA $A$ A A A GCA $\mathcal{A} A G A A A A G A A G G A C A A G G A A A A A A G G G G$ GAGGAAGGAAGGAAAGGGCCAAAGAGAGAGCCAGGGGGAAAG A A A A A A A ATTAAAAAACCAAAAGGGGGGAAGGA GAGGGAAGG A A G G GAGGCCGAAAAAAAGAGAAGAGAAGGGGAAAAGAAAAA GGCCAAAAGGAAAAAGACAGAAAAAAGGGAAAGGAAGGACAA G G A A G A G G G G G G A A G G A A G G A G G A G G C A C C A A G G A A G G G G G G C CAAAAGGAAGGGGAAGAGACCAAAAAAGGAAAGACAGAGAA A G G G A A G G G G G GAAAAAAAAAAACCGAGAGGGGAGAAGAAGAA G G G A G G A A A A A A A A G GAGGACC G G G G C C G GAA G GC C C C G G G G $C C G G A A A A A A G G G G G G G G A A A A G G C C A A A A A A A A G G G G A A G G$ AACCGGAAGGAAGGGGAACCGGAAGGAAGGCCGGCCAAGGGG AATTGGGGAAGGGGCCAAAAAAGGGGGGAAGGGGAAGGGGGG G G A A A A A A A A G GAA $A \operatorname{G} G A A G G A A G G A A A A A A A A G G G G G G G G T T$ G G G G G G A A G G G G A A A A A A G G G G A A A A A A C C G G G GAA A G A A A A G G G G G GAA A G G GCCGGGGGGGGAAAAGGAACCAACCAAGGGG

G GAA A G G G G G G GAAAAGGGGAAGGGGGGGGAAAAAAAGGGCC G G G GCCGGGGAAAAAAGGGGAAGGGAGGAGGAA GAA GGGGGG A GAGAGCGGAAAAAAACCAACCAGGGAAAAAAAGAGAGACAA GAAAAAAGAGAAGAAGAAGAAGGAAAAAAGAAAGAAGGAAAA
 A GAAAAAGGGGGGGAAACAAAGAAGGAAGAGGAGAAAAGGTT A A A A C CAA A GAAAAGGCCGGAAGAGGAAGGGAGGAAGGGGGG G G GAGGGGGGAGGAGAAAGGACCAAAAAAGAAAAGAAAAAAG T T A A A A C C G G G GCAATAGAAAGCXAAGGAAGGGGGCAGCAGE G G G G G GAAAAAAGGAACCGGAAAAAGGAGAGAGAAGGAGACC AACCGGGGGAGAAGGAAAGGAAAGGAAACCAATTGGAGAGAA A A GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A \mathrm{G} G A A A A A G G A A A G A A G A A G G C A G A G A G G C C$ A A C C A G A C A A G G G A G G A A A A G G A A G GCCAACCAGAAAAAA G G A A G G G G A A A A G G A A A GTTCCAAGGTAAAAACAGGGAAAAGA G A G GAGAAAGAGGGGGGAAACAAGGGGCCAGGATTCAGGGGAA A A A C G G G G G G G G G GAGGGGGAACAGGGGGGAGAGACAAAGAA G G G G A A GAGAGACCGGCCAAAGAAGAAGAGAGAAAAAAAGCC AACCAAGGAGGGACCCGGAGGAAAAAAAAAAGAGGAAAGGAA GAACCAAGAGAGGAGGATACGAGAGGACCCCAAGCAGGCCGG A G G GCCACAAACGGAAAGAAAGGAAGCACAGGAAGGGGCGAG A A A A A GAAAGGAACGGGAGGCAGGGAGGAAAAGGGGGGAAAA A GAA A G G G A A A A A A GAA A GAACAGAGGGGGGGGAGAAAAACC GGCCAAAGCAGGGGAAAAACAGGCATGAAGGGCCAGAAAAAA A G A A G G A A A A A A G A G G G G G G A A A G A G G G A A A GACAAC CA A G A ACAAGAGGAAGGCCGGGGGGAACCGGGAAGGGGGAGGGAGAA A GAGGAGGACAGAAAAGGAAGGAAAAAAAAAAAA GAAAAACC G G TAGGCAAGGGAAAAAGGAAAACAGCCGAACAAGGGAGGGG GAACGAAGGAAGGGAAGGAGGGGAGGCCGGGGAAGAAAGGAG A A G G G G G G G GCAAAGGGAAGACGGACGGACGGAA GAGGAGAA A A G G A A A G G GCCGGACAGCCAAAAAAGGCCAAAAAAGGGGGC C C G G A A A G C A G G A A G G G G G A C C G G A G G G A A A C G G G G G G G G G G A G GAGGGGGGAGAGCCACGGGGGAGAAAGAAAGGAAGCGAGA GAAA $A \operatorname{A} A A \operatorname{A} G A A A A G G A G G G G G C C T T A G G G G A G A G G A G G G G G$
 A A A A G A G G G G A A A A A A $\mathcal{A} G G G A G G G A G A G C C A G G G G G A G A A C C$ C C A GAA A A A A C C G A GAA A A A A A GAGAA GAAACAAAA G GA G G A A A GAA A A A A A A G G GAAGGGGAGAGGGAACCGGCAACAAAGGG A A G G G G G G A A A GAA $A \operatorname{AGG} \operatorname{A} A A C C G G G G G G G G A A G G A A G G A A G G$
 $A G C C C A G G G A G A G A A A A A A G G A C C G G G G A A C C A C G G A$
AATAGGAGAGAAGGAAAAAAAAACAAAGGGGAAGGAAGAGG $A C C A G G G G G G A C G G G G G G G A A G C G G G G A A G A C A A C C C G A G C A$ A GACGGGGAGGGGAAGCAGGGGCCAAAAGGAGGGAAGAAGAG G GAGAAAAGGCCGGAAAAAAAAGGCCAAAAAGAAGGCCGGGG G G G G G G A G A GAAAAAAGGAGCCAGACAGAACCAGAGGGACAA
 C CAGGGGGAAAGAGAAGGAGAACAAGAGAGCGGGGGAAAGGG G GCCAAAGGGGAACTTCAGATTAAAAAAAAAAGGAAAAAAGG GAGGGGAGGAGGGGGAGGAGAAAGAACAGGGGGGCCGGAGGG AAAAGGGGGGCCCCCCAGGAAGGAAAGGAAGGAGGAACAAGG CAGGGGAACCAAGGAAGGACAGGGAAGGGGAACAAGGGCCAG AA $A$ A A A GAAAGGAGGGGACAAGCAGAAAAGGGGAAAAGCCGG A GCC G A G G G G A A G A A A GAGGGGAAAAAAGGGGAA GAAAAA G G AAAAAAGGGGGAGGCCGGCCAAGGCCGGAGCCAGAGAAGAAA G GAA A GAA A G G GAACCGAGGGGAGGGAAGGGAGGAAAAAGAA AAGGCCATCCCCGAGAAGAAGGGGAAACAAGGGGATAAGGGG GAAGAGAAGAGAGGGAGAAAGGGAGGCCGGGGGGGGCAAGAA A A G A G GA G A A A A A A G G G GACGGGACCGAAGGAAAGAAACAAA $G G A A A C G A G A G A G G C C G G G G G G G A G G G G A G A A G G G G G G A G A A$

G G G GAGAAGGCCGGAAGGAAGGGGGGCCAGGAGAGAAGAAAA
 AA G GAAAGAAGAGAGAGGCGCCGAAGGAAAAGAACCGAAAAG AAAGAGGGAAAACAGAGAGGAGAAAGAACAAAGGGAGAACGG G GAAACAGAGAAAAAGAAGGAAGAGGGGGGCAAAGGGGGAGG A GAGGAAGCGACAACCAAGGAAACAAAAGGAACCCCGGCCAG A A G G A G G G GAG G G G G G A A A A A GAA A A A A A A G GAAAA A G G A G G AAAAGACCGGGGGAGGGGAGAGAGGGGGGAAGCCGGGGAAAA G G G GCA C G G A A A A A A TAGAACAGGAGGGAAGGAGGGAAAGCC AAGAACAAAAGGAAAAAAACAAGGAAGGGGGGAGAGGGAGGG C CAA $A \operatorname{GAA} \mathrm{~A} C A A A A A G G A G G G G A A A A G A A G A A G G G A G G A A A A$ G GAAGGCCAAGGCCCCGGAGAGGGAAAAGGAAAAAAGGAACC A A A A A A A GAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGGCC
 AAAGAGCAAAATAGACCCGGGACCAACAGGCAAGGAAAAAAG A A G GAAAA $A \operatorname{A} A A \operatorname{A} G A A G G G G A G G G A A A A G G G G C C G G G G A G G G$ CAAACCAGGGAGGGGGGGAAGGAGAGACAGAAAA G GAAAGGGG A G G G G G G G G G G G G G A A T T G G G G A A A A A A G GAA G GAACAAAAA A A A A A A A A A A A A A A GAGGGGACGGGCGGAAAGGACAGGAAGAG CAGGGGGAAAAAGGGAACAGGAGGCCAAGGAAAGCCGGAABA AGGAGACCAAGGGGAAAAGGAAAAGGAAAAAAAAGAGGCC GA C C G GAACCGACCGAAAAGCCGAGGGGACGGGGAGAACAAGCC GAAGAAAGAAGGCCGAGAGAAGAGCAACCCGGCCCCCCAACC G G A A A A G A G G T TAA $A \operatorname{G} G A A C C A G A A G A G G A A A A G A A A A G A A G A$ A A G G A A G A A G G A A G G G A A G GAAAA A G GCCAAGGAAAAAA G A A A A A G GAA A GAA $A \operatorname{A} G A A A A A A A A A A G G C C G G A G G A A A G G A G G G A A$ CAGAAAGAGGAGAGAAGAACCCAACAAGCGAAAACAAAAGAA G G A A A A G A A A G A A A G G G G A A A A GAAGGAGACAAAGAAAAAAA
 $A C A G A A G G G G A C C C G G G G A A A G A A A A A A A A G G A G C C G A G G G G$ A G A A T T G GCCGGAGGAAGAAGGAAAAAAGGGGAAAAAAAAAA AAGGCCCCGGAAGGGGCCGGGGAACCGGAAAAGGGGAAAAGG AA $A G C C A A G G A A A A G G A A A A A A G G A A A A A A G G A A G G G A A A G G$ A A C C G G G G G GAACCAAGGAAGGAAAAAAGGGGAAAAAAAAAA G G A A C C A A $\mathcal{A} G G G C C G G G G G G G G A A G G G G A A A A G G A A A A G G G G$ C C G GAA A G G G G GAAAAGGAAGGAAAAAAAAAAAAAAAAAGGGG
 G G G G G G G G A A G GAA A GAAGGAAAAGGAAAAAAGGGGCAAACA G GCCGGAAAAAAAAGGAAAAGGGGAAAAGGAAGGGGGAAAAAA
 G G G G A A C C G G G GC C A G G G C A GAGGAAGGAAAAAAAAAGA A A T G G G G C A G G G G A A G G C A A C G G A A A A C C GA G A G G G A A G A A A G G G AGACTTAGAAGGGAACGGAGAAGGAGAGCAAAGGGGGGAACA AAAGCGGGAGAAAAAAGAAGAACAACGAAGAAGGGGAAAGAC CACCAAGGGGGGAGGGAGCAGGGGGGGAAAGAGGAGGGAGAA GACCAAAAACAAACGGAAAGAAAAAGAAGACCGGAAAAAGCC CAGGAAGAGGACGGAGGAGGAATAAGAAAAGGAACCAAGAAA AAGGGGTAGGAAAAGGAAGGAGAAAGCCAAAGGGAGAAAACC A GAGAAGAGAAACAAACCGGGGAAGGTTAAACACAAGGAAAC
 G GAAAAAACCGGCAAAGGAAAGAAGGAAGGAAAGAAAAGGAG G G G G G GAAAGGAAGGAAGCAAGAAGAAGGGGGAAGGGGAAAAG G G G A G G G G G G A G G G A A A G A A A G G G A GA G A A G G G G C A G G A G A G AGAACAGGAGAGGGAGGGGGAAAAAAAGGAGGGGGGGGGAAA G GAATTGGAGGGAAGGAAGAAAAAGGAACCCAAAAGAGCCAA GAGGAACCAGCAGATTAAGAAAATTACCAGAAAAGGAGAAGGG A G A A A A A A A G A ACCGGTAACAGAGACAGTACCGGGACAAGAG $G G A A A A A A G A G G A A C C G A A A G A C C A A G A G A A C G A A A A G A G G G$ A GAACCAGAAAAAAAGGGAAGAGAAAAAGGGGGGGGAGCCCG

G GAGCGAAAAAGGACCAAGGGGAGGGGGAACAGAGAAAAAGA
 C C A A C CAAAAAAAAAAGGAAAAGGGGAAAAAAAACCGGGGGG G GAAAAAAGGGGAAAAGGAAAAGGGGCCAAGGAAAAAATTAA $C \subset A A C C G G G G A A A A A A G G A A G G A A A A G G A A A A G G A A A A G G A A$ G GCCAAGGAAGGGGAACCAAGGAAAACCAAGGGGAAAAGGGG A A A A C C G G G G G G A A A A $\mathcal{A} G G G G G A A A A G G G G G G G G A A G G G G G G$ G G G G G G G G A A G GAAAAA $A \operatorname{A} A A \operatorname{A} G G G A A A A C C A A G G G G C C G G T T$ G G G G G GAA $A \operatorname{GGG} \operatorname{GAACCAACCAAAAAAAAAACCCCAAAAAATT}$ G G G GAAAAAAAAAAAAAAGGAAGGCCCCAAAAGGAAAAGGGG G GAAAAGGAAGGAAAAAACCAAAAGGAAGGAAGGCCGAAAAA G GAA $A \operatorname{GAA} C \subset G G A A A A C C A A G G G G G G A A G G A A G G G G G G A G A A$ G G G GCCAAGGTTGGAAAAAAAACCAAAAAAGGAAGGAAAACC A A A A A A G G G G G G G G A A A A G GAAAAACAAACCGGTTAAAAAACC G GAAAAAAGGAACCAAAAGGGGGGAAAAAAGGAAAAGGEGAA G G G G G G G GCCGGGGAAGGGGGGCCAAAAAAAATTGGAAGAAA A A G G A A A A G G A A A A A A A A C C G G G G G GAGAGAGCCGGGGAAAA AACCAAGGAAGGAGAGAAAGCCCAGGGAGAAGAGAGGACCAA AAAGAGACAAAAAGCACCGAAACCGGGGCCGGCCCAGACAAG AACCGGAGGGAAAACCGGAACCGGGGGGAGGGGGGAGGAAGG $C G G A A G G G A A C G G G C C G G A A A A C C G G T A G A A C A G C C G G G A G A$
 CAAAGAAGACAGAAGGGGGAAAGGGGAAGGCCGGGGGAAAAA A A G GCCAAAAGAGGACAAAGCCAGGACGAGGGGGAGAAAGAA G GAGAGAGCCGGGGAAAAAAAAGAGACCAAAAGGGGCCAGAG GAGGAAAAATGAAAAACCGGAAGAAAGAGAGGCAAAGAGAAA AA GAAAACCAGACAAAAGGAAGGAAAGGAACCCC GAAGAACAA A GCCAAAGAACAAAAAAAAGCCGGAAAAAAGGCCAAGAAGCC G GCA G A A A G GACAGCCAAAAGGCCGGAAGGGGGAGAGGAGAA GGGGAAGGCAAAGGAGGAAAAAAAAAAACCAAGBAAGGCCGG G GCCGGAAGGGGGGAAGGCCGGGGAAGGAACCAAAAAAAAAA AAAAGGAAAAGGGGCCGGAAAACCGGAAGGGGAATTGGAAAA $C \subset C C G G C C A A G G G G G G A A A A A A G G A A A A A A G G A A A A A A A A G G$ G G G G T T A A A A A A G G G A A A G G G G G A G A A G G GAA G G C C A G G A A A G G G G G G G G G G C C G G A A A C A GAC G G T A G G G A G G C C G G A A G G A A AC G G G A A A G G A A G G G G A G G A G A A GACA A A G G A G G A A A A A A G A AAAAGGAAATCAGAAAAAGAAGGGAGAAAACCATAAGAACGG A A A A A A G A A A A A A G G GCCCCGGTTGGAAAAAAAA GGGGACAG A G G A G A G G A GCC $C$ C $C A G G A A G G G G G G G G A A A A G G A C C A A G A T T$

AAAGGAAGACCGGAGGGAAGGGGGGGGGAACAGAGAACAAA $A G C C G A G G C C G A C C A A A G G G C A G G G G A A C A C A G A G G G G A A G G$ G G G GAGGGAAAAAGGGAAAAGGAAGGAAAAAAGGAAGAAAAG G GCCCAAGGGAAAAAGCCGAGGCCAAAAGGCCGGGAAATTGG A GCGAAGGCAAAAAACAACACCAAGGGGAACGAGAACCAATT A A A A A C A G A A A A A A G G G G A A A A G G G G A A A A G G G G G G G G C A G G $G G A A A A G G A A A A G G A A G G A A A A A A G G G G A A G G G G A A A A G A A A$ AACCAAGGGGAAAACCCCGGGGCCGGAAAAAAGGGGGGGGAA AAAAGGAAAAGGAAGGCCAAAAAACCGGGGGGTTAAGGAAGG G G G G G G A A G G A A G G A A A A G G C C A A G G G G G G G G A A A A G G A A A A G GAGGCGGCAAGAGGGAGAGCCAAAAAGGGAAGAGGGGAGAA GACGGACAAGGGAAGAAGGGAAAAGAACGGAAAAGAAGAABG A A G G A A C C G G G GCCAGGGCAAAGGGGAAGGGGAAAGAAAGAG GGAAAGCACCAAGGGCAGGGCAAGGGAAGGGGAGAAGACCCC AAAGAGAAGGGGCCAAGGAAAAGGAGGAAAAGATCCGGACBG G G G G A A A G A C G G A A G G G G G A A G G G GAAA A G G G GAAAAA A A GAC
 A A G G A A G G A A G G A GAAAAAAAAA $A \operatorname{A} A G G A G C G A G C C T T G A G G G G$ G G G GAGAAGGGAGACCGGAAGGCCGGAACCGGGGAAGGAAGA

AAGAGGCCGGGAACGAGAAAAAGGCAATCCAAGGAACGAAAC A GAGAGGAACAAGAGGGGCCAAGGGAGGAGAAGAAAGAAACC
 GAACCCGAAAGGGGAAAAAGAGAACAAACCCAAGAAAAAAAA $C \subset C A G G G A A A G G A G G A G C A A G G A A A G G G A G A G G A G A A A G G G A$ GA $A$ A A A $\mathcal{A} G G G A A G G G A A C G A A G G G C C G G G G G G A C G E A A A G G G$ GAGGGGACAAAAGGACGAGAAAAGACAAAGAGGGAACAAAGB CCCAAAGCGAGACGGAGGAGAAAAGAGGAAAAACAGGGAGAA A A GAA A G G G G CA $A \operatorname{AGGA} A A G G A A G G G G G A A A G G G G A G G A A A A G$ G G G G GAGGCCGACCGGGGGGGGAGAAACGAAGAGAAGAGGGC A GAGCAGGGGAACCGGAAGAAAAGAGGGAAAACCCCCCGGGA A A GAAAAGGGGAGGAGAGGAGGCAAGAAAAGGGGGACCGGGG $A \subset A G A G G G G G G G A A A G G A A A A G G A G A G G G G C A G A B A G G G G G G$ $G G C C A A G G A A G G G G A G G A G A G G A G A A G A A G G A G A G G A A A A A A$ AAGGGGGAAAAAGAGAAAACAAGGGGGGGGAGAGAAAAAGCC
 C C GAGAGAGAGAAGCCAGGAAAGGAGACGGAGGAAAGGAAGA GAGACCAAGGGGAAAAGAGGGGACAAGAGGACGA GAA GAGAA GAAAAAGGCCAGAGGGGGGGGGAGGGGGCCGGAAAGGGAAGG A GAGAGGGGGAAGGAAGGCCAAAAGAAAAAAAAGAAGACAAA AAGGAAGGAAGGCGGACCACAGAAAAGGAAGGCCAAAACAAA G GAA A GACGGAAGGGGGAAAAGACGGGAGGCCGGGAGAAAAA C C G G A G G G A GAA $A \operatorname{GAA} A G T T G G A A G A G G A A A A A G C C A A A G G A$ GAAGAGCCCCAGAAGAAGAAAGAAGGCCGGGGCCAAAAGAAG AAAGAGGGGAAAAGAAGGAGAAGGAAGGCAAAGGGGGGAAAAG AAAAAAAAGGAAAAGGGGAGAGGAAGAACCGGGCAGAGGGGG G G G G G G G G G G A GCC C G A A G G G G G GAAGGCCGGTTGGAAACAA AAAAGAGGGGAAGGGAGGAAAGAAGAGGAAAAAAAAAACAGG A G G G G G A G A A A A A A A G A A G G G G G A G G G G G G A A A A C C G G C C C C AAAAGAGGAGAAGGAAAGGGGGAAAAAAAAAGGGGGGACCAG GAAAGGGGGAGAGGCCAAAAGGGAAAAACAAAAAAAAACCBG AAGGAAGGAGGGGGAGGGGGGAGGAGGGAAAACCAAGGCCAA AACCAAGGAAGGAAAAGGGAAAAGAAACAAGGCCAAAACAAA ACGAAGAACAGAAAGGAAAAGGGGAGAAGACGAAAAAAAGGG A A GACCAGACGAGGACGGACGGGAAGAAGGAGGAAAAAGGAA G G G G GACCAAAGAAAAGGAACCAAGAGAGGAGGAAAAAGGAC GAGAAAGAAAAAAGTAGGGGGGCCCCGGGAGAGGAGGGAAGA A GAGACGGGAAAAAAGAGGGGAAAAACAGGAAGGAGGGAAAA A G G GAAAAA $A$ A A A A GAA A A A A A A A A G GAAA GAA GA G G G G G G C C G G G GAGCCGGAAAGAAACAAGAGGAACCAAGAAAGGGGAGAA G G G G G A C A A A C C C C G GAAG GAGAGGAAAGACCTTAAGGACAA G G G GAGCCAAGGAAGAAAAGGAGGAAGGGGAAAAAGAGAAGAG A A A A G G G G GAA $A \operatorname{A} A \subset A G G A A C C G G G G G G G G G G G G A A G G G G G G$ AATTGGAAAAAAAACCAAAAGGAACCAAAAAACCAAAAAAAA A A A A A A A A A A A A A A G GAA $\mathcal{A} G G G A A A A A A A A G G A A G G A A A A G B$ $G G A A G G G G G G A A G G A A A A A A A A G G G G C C G G G G A A G G G G A G A A$ G G G G T T G G A A A A G G G G A A A A A A G G A A G GTTAAACAAACCCCCC A A A A G G G G G G G GAAGGGGCCAAAAGGGGGGAAAAGGCCAGAA $C \subset G G A A G G A A G G G G A A G G G G A A A A G G G G G G G G G G G G A A A A G G$ G GAAAAAACCGGAAAAGGAAAACCAAAAGGCCCCCCAACCAG G GAAGGGGCCAAAAAAAAGGCCGGAACCAAAAAAAAGGAGAA A A A C A GAAGGAGGAGCGGGGGAAAGGCAAAAAGGGAAA GGAAA A G A A A G G A G G A G G A GAGGGGAAAAGGACACGAAGAGAA G GAA A G G G G GAGGGGAGACAAAAAAAGAGCGGACAGGAACCGAGGGG G G G GAAAAAAGGCCAAAAGAAAGGAACCAAGGAAAAGGAAAA A A GAAAGGAAGGAGAGAGGAAGAGAGAAAAAAGGCCAAGGAA G G G G A A G G GA $A \operatorname{GGG} \operatorname{G} A A G G G G A G A A G G G G G G G A A A A G A A A A A G$ A A A G A A A G GCAAA GAGAAGACAAAGGGAGAGGAAGGCAAA G G G GAAGAGGGGGGAGAGAAAAAATTGAAGCCAAAGAGGGGGGG

AACCAAGAAGCAGCAGGGCCGGCCAAGGGGAGGGGGAAAAAA G GAACCAAAAAAGGAAGGGGCCGGAAAAAACCCCAAGGGGGG AAAATTGGAAGGAAGGGGAAGGAAAAGGGGGGGGCCCCAAGAG G GAA A G G G A A G G G G G G A A A A G G G G A A A A A A G G C C A A G G G G C C G GAAAAAAGGAAAAGGAAGGGGGGGGAAGGAAAAGGAAAAAA G GAA $A \operatorname{GA} A G G A A G G G G G G G G T T G G G G A A G G A A A A G G C C G G G G$ AAAAGGAAAGGAAGCAAAAAGGAAAAAGAAGGAAAGAAACAT GATTGGCCAAAAAACAAAGAGAAAAAAGAGAGGGGGAAAAAA A A G G A G A G A G A G G A C A G A A A A G C A G G G G C C G G A A C C G G G G T T AAAGGGCAAAACCAAACCAGGGGGAAAAAAAGCAGGAAAAAA G GAA $A \operatorname{GAA} \mathrm{~A}$ G G GAAAGACACGAACAAAAGGAAAAAAGGAGAA AAAAGGAAGGAAGGAACAGGGGGAATGACCGAACC GAACCGG
 A G G G A G A G A A A A G A G A G G G G G G A G G A G G G A G A T T A G G G A G A A A G GAA A A G G GAGGAGAAGAAAAAGGAAAAGAGCCACAAAC GA GAAGAGCAAGAGGGAAAAGAGAAAAATTAGGAACGGGAGAGC $A C A A C C G G A G A A A A A A A A C A A G G A A A C C G G A G G G A A G G G G C C$ A GCCAGCAAAACGGAGGGAAAAGGAAAAAAGGGGAAAAGGAA GAGGGGGGGGGAAAAGAGGAACAGGGGAAACAGGAAAGACGG AA $A G A A G G A A G G C C A G A A G A A A A G A T A A A A A G A G C C G B A G A G$ CAGGAGAAGAGAAAAGCCAGGAAGGAGGAAAAGGGGAAAACC C C A A G G G G A A G G G G G G G G A A G G G G G G G G A A G G A A A A A A A A G $G$
 AACCCCCAAAAGCAAAGGAAAAAAAAGAGGAAGGAGCAGGAG
 ACGAAAGGCCGGAAGGAAAAAAACAAGGGGAAAAGAAAGGGG TTAGAAAAAAGAAAAAAATACCAAGAAGAGGAGAAAGGAGGG C CAA $A \operatorname{GA} \operatorname{A} A A C G G A G A T T C C C C A A A A G G G G G G G A G G G G A G G G$ A A A A A ACCCCAAACGGAGGACCAAGGGAGGAAGGGGGGAGAA C CACAAGAAAGGCAGAATAGGGGGGGGGAAAAGGGAGGAAGA A A A A A A A A C C G G GAGAAGGGGGGAGACAGGGGGGAAAAAAAA AAAACCAAAGACGACAAAGGGGCCGGGGACAAGGACGAGAAA
 A A A C C G A $\mathcal{C} G G G G A A G G G G A A G G G G G G G G A A A A T T A A G G G G G G$ A A A A G GAA $A \operatorname{GGGGGGAAAAGGAACCAAAAGGGGAAGGCCGGGG}$ G G G GAAGGGGGGAAAAAAAAGGCCATGAAAAAAAAAGGAAGG GAGAAA $\operatorname{A} A \mathrm{~A} A \mathrm{~A}$ A AACCCCGAAACCAAAGAGGGAGAGGGAGAG A A G G G G G G GA GAAAAAAGGAGGAACCGGAAGGGGGAGGAGAG G GAACCGAAAGGGGCAGAGGCCAAAAACAGCCCCGAAAGAAG GAAGGGAACCGGTTCCGGACAAGGGGGGAAAAGGGGG
AGAAAAAAAGGAACCGGAGGGGGAAGGGGAAAGGGGGAAAA A A G G A A A A A A A A C G G G GAGAGGAAAAGGAAAAGGAAGAAAA G GAGAGGAAAAGGGAAAGAGAGAAGGGAGGGACAAAAGAAGAG A GCAAAAAAAGGAAGGGGGGAGCCCAGGAAGAAGAAACAAAA A A G G G A T T G A A A G G A A G G G G A A A A GAGGCCAGAGAAAAAA G G A A G G G G A A G G G G G G G G A G A G A G A C G A G G G G A G G A G G A G A C G G
 AGAGCCAAGGGACCGGAGAACAAGGAAAACCCGAAGGGGAAA AAACGAGAGGAAAAGGGGGGAAGGGGGGAAGGGGGGCCBGAA G GCCAAGGAAAAGGGGAAGGGGCCAAAAAACCCCGGAAAGAA G G G G A G G G G G A G G G G G A A A A A A G G GA $\mathcal{A} G G G G G G A G G G G A G C A$ G GAA A GAAAAGAGAGGAAGGGAGAGGAAAGGAAAGGCCAGGAG GAGGAACCAAAAAGCCGGAAAGCAAGGGGGGGAACCGGGGGG C CAGAAGGGACAAAGAAGAGAAGAAGGGAAAAAAGAGAAAAA $A \subset A C C C A G G G G G T T G G A A G G G G C C A G A G G A G G A G G G G G G G A C$ A GAG $A \operatorname{G} \operatorname{GA} A G G A G A G A G C A A G C C G G A A G A A C A A G A A G G G A A A A$ AAAAGGAAGGAAGGCCGGAAAAAAGGAGGGAAAAGGGGAAAG $G G C C A A A A A A A A G G A A G G A A A A G G C C A A G G A A C C A A A A A A A A$ $A A G G G G A A G G A A G G G G A A A A G G C C G G A A G G A A G G G G A A A A G G$
 G G G G A A A A C C C C A A G G A A G G A A G G G G G G G G G G G G C C A A G G G G C C C C G G G G A A C C G G A A G G G GAAAAA G G C CAA $A \operatorname{AGGGGGGGGGCC}$ G GAA A G G GCCAAACGGCCAAGGGGAACCGGGGGGAGGGGGGG CACACGAGAAAAAAGGAAGGGGGGAAGGCCGAGAGGACCCGG G G A G A A G G A C C C A A G G A G A A G G G A G G G G G G A G C C A A G G G G A G G G G GCA G GCC G GAGGGAAGAACGAACGGACGAAGAAAACCGG A GAGGGGAACGGGGAGCCAGGGAAGGAACCAAGGCCGGGGGA G G G G A A A G A G G GACA $\mathcal{A} A A A A G A A C C G G G G G G G G A G A A G G G G G G$ AAGGGGAAGAAAAGAAAAAAAAAAGGGGCAGGACAGAGAGGG G GAA $A \operatorname{GCCA} G \mathrm{C}$ GAAACCAAAAGGGAACGGAAAAGAAGGGAGAG C C G A G G A G G G A A C C G A G A A G A G G G A A A A G A A G G G A G G G A G G G G GAGGGGGATAGAGCCAAAAGGGGCCAAAAAGGGAAAACAAA
 G G G G G GAAAAGGAAGGCCAACCGGGGGGCCGGAAAACCGGGG
 G $G A A G G G G A A A A G G G G G G G G A A G G G G G G G G A A G G B A A A G G A T$ G G A A G A A G G G G G G G G A A C G G G G G G A A A G A A G G A A GAC C G A G C $G G G G A A G G G G A A G G A G A G C C A A G G A C A A G A G A G G A G A A C A A A$ GACCAGAGAGGGAAGGGGCCGAAAGAAAAGGGAAGGACAAAA ACAAGGCCAGAGGAGAGAGGGAAGAGGAGGAAAACCGGAGAG A G G GAAACAAGAACAAAAGGAAAGCCGGCCGGAAAAAGAAAC G G G G A A A G A A G GAAAAACGGAGAAAAGGCCCCAAGCAAGGAC
 C C A GCACA GAGGAAAAGAAAAGGGACAAGGAAGBAAGA GAAA A A A A GAAACAAAGGGGAAAAAAGGAAGACCGGAAAAGGGGAG AAAGAAAACCAAAACCAAAACCAACCAAAAAAGGAGGGAAAG G GAGGGCCAAAAAAGGAAAAGGGGAACCAAGGAAAAAACAAA C CAC G GCAAAGGGGAAGAAAGGACGGGGAAAAAAAAAACACAA AAGGAAGGGAGGGGAAACAGAAGGGGAGGGAAGGAACCBGAG AC GAAGGAGACCACGAACGGGAAAAAAGGAAACCAAAGAAAA GAAAAAAAAGGAAGAACCCCAAAAAAGGAAGGAGGAAAAAGG G GAA A G G G G G G GAA A A A A T T G G G G GAAAAAAAAAA GAAAACC G GAGAAAGAGGGAATTAAAAAAGGAACACCGGAGCCACAAAA C C G GAA $A \operatorname{GAAAAAGGGGAAAAAGCCGGGGCAAAAACAGACCGG}$ GAAAAAAGGGGAAGGGGAGGAGAGGGGGCCAGAAAAGAAGGA A GAGAGAGGGAGGAAAGGGGAAAAGCGGGGCCGGAACAAAAA $C \subset A A G G A C A C G G G G A A A C G A G G A G A G G A A G C C G G G G A A G G A G$ GAAGCAGGAGGGCCAGGGGGAAGAGGAACCAAGGGGCCGGGG G G C A G A C A A A G G G GCCAAG GAGAATAAAACAGCACAAGAAGBG GAAAGGGGCAAGGACCCAACGAGAAAAGAGAGGAGAAACCAC C CAACAAAGGAAGAGGAAGGGGAAAAGGGGGGGAAACAAAAA CAGGCCAGAAGAACAGAGACAAGGAAGGCCGGAAAAGAAAAG GAGGCCGGAACCGGGGAAAACCGGGGGGCCGGAAAACAAAAA
 G G G GCCAACCAGGGGGAAAGAAGGGGAAAAAAGGGAGAGGCC GGAAAAAGAAAAAAGGCAACGGCCAGAAAATTAAGAAAGGAC G G GAAGAGCCAAGGGGCCAAAAGGGAGAACAAAAGGCCAGAG GAAAAACCAAAAAAAAGGAAAAAAGGGGCCGGGGGGGGCCGG A A A A A A A A $\mathcal{A} G A G G G G G G G A A A A A A A A G G A A G G G G G G A A A A G G$ G G G GAAGGCCAAAACCAAACAAACGCGGCCGAAGAAAAGGAG G G GAAAGGGACCACAAGGAAGGAAAACCAAGGGGAAAAAGGG G G A A T T A G A A A A A G G G A GAACCGGGGGGAGAGCCCCGAAAAA AAAAAACCGGGGGGGAGAGGGGCCGGGGGACCAGGAACAAGG AAAA A GAA $A \operatorname{Ag} \operatorname{A} G A A G G A A A A A A G G A A A A G G G G A G A A G G G G A A$ AACCAGAGAAAAGAAAAGCAAGAAGAAACCGGGAAAGGCCAA C CAGCCAAACGGAAAGGGGGGGGGGGACGAAACAGAGAATAG A G A A G A G G G G G G A A G A GAGAAAAGCAAAAGGAGAAAAAACA G AGAGCAATGGGGAAGGAGCCAACCCCGGAACCAGAAGGAAGG

G G GAAA A $A \operatorname{AGG} G A G G G G G A A A A G G G G G G G A A A G G A G G A G A A A$ G G G G G A A C A A A GAA $A \operatorname{G} \operatorname{A} A A A A G G A A C G G A A A A A G G A A A A G G A A$ AA $A G G G A A A A A A A A A A A C A A A G G A A C C A A G G G G A A G G A A A A G G$ GAAAGGGGGGGGGGCCGGAGGAGGAAGGGAGGGGAACCAGGG G GAGAAGGAGAACAGAAGGAGGGGAGAAACAGAAAGTXAAGA G GAAAAGGGGGGGGAAGGGGAACCAACCGGGAAGGGCCCCAG
 AAGAGAGAGGAAGGAGAGAGGGAAGGGGCAAACAAGAAAAGG A GAAA A $A \operatorname{G} \operatorname{A} A A G G A A A A G G G G A G G A A A A A A A G A A A G G G A A C A A$ G G GAAATTAAAGAAAGGAGGAAAAGGGACAGGGGAGTTAGAA A A G G G G G G G GAACCAGAAGGCCAAGGAAAAAAGGGGAAAC G G $A$ G G G G A G G G GAAAGGAAGGGAAACCAACCAAAAGAAAAAACAC C CAGCCGGAGAAGGGGTTAAAAAAAAAGGGCCGGAGCAGGGG

 G GAGGCAGGAGAGGAAGGGGGGAAGGAACCGGGGAAGGGGGG G GAGAAAGCAGGAAGAGAGGAGACACGAAACCAAGAGGAAGB G GCCAAGGAAGGCCCCGGGGGGAAGGGGCCCCCCGGGGAAGG AAGGAACCAACCGGAAGGGGAAGGAAAAAAAAGGGAAAGGGG A A A A A A T T G G G G G G A A A A A G A A G G A A A A G G G G C A G A G G A A G G AAGAGGAAAAGGGGGGGAGGAGGGAGGAGGAAAAAGAAGAAG GAGGGAGAAACCAAAAAAGGGGGGCCGGAAGGAGGAGAGGGG G GAGGAAGAAAAAACCAGGGGAGAGAGAGGAGGGAAAAAGAA G GAA A GCCAAGGGGAACAAAGGAGGGAAGGAAAGAGGGAAAA A G A G A G A C G G A A A G G A G G A A G A A G G G G G G G C C G G G A G G A C G G GAAAAAAAAGCCAGGGAAAAGGTTAGGGGGGGAAGGCCAGGG AAAAAACCGGGAGACCCCGGAACCGGGGAAAAGGGGAAGAAA GAAGACGGGAAAGGGGGGGAGGGGCCAAGAGAGAGAAAGGAA AACAAAGGGAGGAGAAAAGGGGGGGGAAAAAAAGCCGAAACC T T G G G GCA $\mathrm{C} G \mathrm{G} G A A A G G G C G G C C A A A A A G C C C A A A A C G A G G C C$ G G G G G G A A A C G GAA A G A A G G A A A A A A A A C CAA G G C C A A G G A A G G G GCC C G G G G GAA A G G G G G G GAA A G C CAA A G G G G G G G A A G G C CAA $A \operatorname{GAAAACCAAGGGGCCAAAAAAAAAAAAAAAAAAGGAA}$ C C G G G G A A A A G G G G C C G G A A G G G G A A C C C C G G G G G G A A G G A A A A A A G G G G G G G G A A A A C CAA $A \operatorname{AGGGAAAAAAGGCCAAAAGGAA}$ A A G G A A A A A A A A A G A GAGAAGGCCAAAAAAAAAAA GAGAA G G CCGGCAGAACGAGGAAGAAGAAAGAGAGAATTGGGGCAAAAA A ACCAAGGAAGGAAAATAAAAAAACCGAAGAGGAAGAAAAGA GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAGA A A ACGAACCACAAAAGGGCCCCAAGGCAGGAAACAGA
AGAAGGGAGACCAGAGAAAGGAGAAGGGGGGGACAGGGAAG G G A A G G G G A GAA $A \operatorname{AGGGCCGGCCGGAAGGAAAAGGAAAAAAGG}$ $C C C A A A A A G A G G G G A G A A C A A G A A A C G G G G A G G G A A G G A A A G$ GAGAGGAAAACCGGAAAGGGAGACAAAGAGAAGGAAAACAAC A A A A GAA A A A A $\mathcal{A} G G G G G G A A G G G G G G A C G G A G A G C A G A A G A A$ C CA $A G G A X G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G B$ GAGGGGAAGGCAAAAAAAGGGCAGAACCGGGGAAGGAACACC AACCAAGGCCGAAAAAGAGGGGGGAAGGAGAAGGAAGGAAAC ACAAGAAAGCGGCCAGGGCCGGGACAGAAACCAAAGGAGGAG A A G GCCGAGACGAAGGAAGAAAGGAAGGGGGAAAGGAGAAAA TA G GAA A G GAGAATCATACAGAAGCAGAAGGGAGCAGAAAAA GACCAGGGGGAACAAGGAGGGAGGAGAACCATAAACCAGACC
 G GAGGGACGGAAACAAAGGGGAGAAAGGGGGAAGGGAGAAAA GAGGCCAGGGAAAAAAAGAGGGAAAACAAGCCCAAAAAAAAA CCGCCCGGGGGAGGAGAGAAACAGAGGGACGAGAGAGAAGAA A G A A A G A G G A A G A A G G C CA $A \operatorname{CA} A G G A G A G G G G G A G G G A G A A G G$ GAAGGGGGGAGGGGGGAAAAGGAGGGGAGGGAGAAGAACCGG AAAAGGGGAAGGGGCACAGAAAAAAGAGGAAAGAAGGGGAGG

GAAGGAAAGGGGAAGGAAGACCGGAAAAAGGAGAGGGGGGGG A A A G A G G G A A G G G G A G A A T T A G C A GAGGGGAA GAAACA GA GA GAGGGGCCAGAAGGGGGACCAAGGAGGAAGCCGGACGAAGAA G G G G GA G G G G GACCAAGGGGGGAGAGAAAACAGAAGAAGGAA
 G G G G A A A A GAGGACGGCCGAAAGGCCGGAAAAGGAGAAAAAA
 $A A G G G G G A A G A G A G G G A A A A A G G G G G G G A A A A G A G A C A G A G G$ G G G A G G T T A A A GCCAGAAAAGAGGGGGGCCGGAAGGGAAAAA AAAGCCAAGGAAGAAACAGAAAGAAAGAAGCAAACCGGGGAA $C \subset G G C C G G G G G A G G A G G G A G C C A G G A G G A A G G C C C C A A A A C C$ $C \subset G G G G G G A A G G G G G G A A G G A A G G A A A A G G A A G G C C G G C C C C$ A G G A C C A G A GACCCGGGGGGTAAAGGAGGGAAGGGGAGACAA G G G G A A G G A G G GAA A A A A $\mathcal{A} G G G G G G A A G G G G G C A A A A G A G A G$ GAGGCCAAGGGAGGCCGGAAGGAGACGGCCGGACGAGGAACA ACGGACGAACAACCAGAATAAAGGCCAAAAAAGAGGAGCGGG
 GAGGGGGGGGGGAGAGAGGGAAAAAGAACCAAAGAAGAGACC GAAGAAGAAAGAGGCCGGCAAAAAAAAAGGGAAGGAAAAAAA A G G G A A G G G GCCAA $\mathcal{A} G G G A G A A C C A A A C G G A C G G A A G G G G G G$ GAGAGGGGAGGGAAGGAAAAGGAAAAGGAGAGAAAAGATXGA A A A A G G G G GATTAACCGGCAGGAGAGAACCGGGGGGATACGG A A A A A A A A A A A A G GAAAAGGGAAAGAGGAGCAGATAGAGGAA G GAGAAAGGGGGACAGAAAGAAGGAGGGAGGGAAGGGGCCBA GACGGGGAGGGCAGAAAGGGAAGGGGAAGGAGAAAAAAGGTT AAAGAGGGAAGGGAGGAAGAGGCCCCGGAGAAAAAAAAGGGG GACCGGAAGGAACCGAAGAAACGGGGAGGGGAAGCCGAAAGA G GA A GAGGGGCCCCGGGGACAAGGGGGAAGGAGGAAGGGACC C CAA $A \operatorname{GAA} A G G G C C A A G G G G G G G G A A A G G G A A A G A A G G G G A A$ GAAAGGAAGGAACCAACCGGAGAGGGAAGAGGAAAAAAAAAC C C G G G A A A A A A A G G C G A G A A A A GAAAAAGGAAAAAAGGAAAA CAAAGAAGGAACCAAGAAGGAAGGAGAGGGGGAGAGACAAAG A $G A G G G A A A G G G G G G G A A G G G G C C G G G G G G G G C C G G A C A A C A$
 $A \subset A G G A A A G G A A G A G G C C A G G A G A C C G G A G C C G G G A G A A A G G$ G G G G G A A A G A G G G GAACC GAAAAA AAAACAGGGGCCGGACAA A A G G G G GAAAAAAAGGAAGGGGGAGAGAGGGGGGGGAACAAAA A A A A A A A G GAAAGGGGCCAAAAGAAGGGGAGAAGGGAAAACC AAGGAAGGAAAAAACAAACCGAAAAAGGAACGGAGAAACAAC


 G GAAGGAAGGGGAAGAGAAAGAGGCCCCGGCCCAGGAAGAGA A G G G A A A A G G A A A G G G G GAGGGGAAACCGGGAAG GAA GAGAA AAAGAAAAGAAAGGAAAAAAGGCCAACCGGCGGGGAAACCGG G G A G A A A A A A G G G G A A A A G A A A A A A ATTCCAAACAGCCAAAG G GAGTTCCAAAAGGAAAAAAAGGACGGGGGAAGGGGBACCTT A A GAAA A GAAGGGAAGAAGGAAAAGGGGAAGAACGAAGGAAG G G G GCCAGAAAAAGGGGGCCGGAAGGGAAGGGGAAAAAAGAA AAAGGAAGGGCAGGAAGGGGAAGGCAGGGGAAGGGGAAAAAG G G G A G A G A A A A G G G G G G A G G G A G G A A GAGAGGGGGGCAAAAC GAAGAGCCGGGGGGAAGGGGGGGGAAAAAAAAAAGGAAAAAG G GAAGGAGGGCCAAAGACGGAAAGGACAGGAAAAGGAAAAAA $C C G G C A T A A A A G A A A A G A A G G A G G A G A G A G A A A A A G G G G G G G$ G G A A A A A A A A G G G GACAGGGCCAAGGACAACCCAGGCCCAAA GA $A \operatorname{G} G A G G A A G G G G A A G G G A G G A A A G C C G G G G G G C G G G A G G G$ G G G G T T G G G G G A G GAGAGCCGACCAAAAAAAGAAAACCGGGG G G G G A A G A A A C C A G G A A GAGGAGGGGGGGGAGGAG GAAAA A A G G G GAAAAAGAACACCAGGGAAAAAAAAGGGGGCGGGGAAAA

G GAAAGCCAAGAAAGAAAGAAGAGGGCCAAGACAGAAACCCA
 A A G G G G GACCGGGAAACGAAAGGAAGGAAGGGCACAAAAAGG A A GAA ACACAGGGAAAGGGGGAGGGGGAGAGAAAGGAGAGCA AC GAGAAAAAAAGACCGAAGGGAAGAGAAAGGACACATAAAG GAACGAGGGAGGCAGAAGGAGAAAGGGGAAAAGAAAGGAGBA GACA $\mathrm{C} A \mathrm{~A} A \mathrm{~A}$ G G GAGGGAAAAAAAAGAGAGGAAAAGGAATTCC ACGGGGAAAACCACGGACGGGGGGAACCGGAAAAAAGGAGAA G GAA $A \operatorname{GA} \mathrm{~A} G A C C C C G G A A A A G G A A A A A A A A G G G G G G A A G G G G$ $A G G G G G A A A G G A A G G G G G A A A A G G A G A G A A G G G G C C A G G G G G$ G G G GCCGAGGGAAGAAGGAAGGGGAGGGAAGGAACCGAAAGA A A G GAAGACCACGGAAGGAAGGGGCCAACCAAGGAGAGAGAA $G G A A G G C A A G A G G A G A C A G A G A A A G G G G A A C A A G G G G G A A G A$ T TAACCCAAAAAGGAAAAGGAAGGAAGGCCAGGAAGGGACAA G GAAGAGGCCCAAAGGAAGGGACCGGACAAAAGGACAAACAG G G GAGGGGCCGGAAAAGGGGGGAACCGGGGGGAAGGAGACAA A GAGGAAAAAGGCCGGAGCCGGGGGGAAGAGGAAAGAGAGAA G G A C A G G G A A G A G A G G G A A G G G G G G G A G G G A A G G A G G G G G G G $G G A A T T A A G G A A C C G G A A G G C C G G G G C C A G G A A G G A A G A G A G$ GAGAGGACGGGAAAGGACGGAAGGGAGAAAACAAGGCAAAAA G GAGGGGGGGAAGGGGGAGGCCGGCAAGGGGGAGAAGAAAAG CAGGAACCAAAACCGGAAAGAGGGCCAAAAAGAGAAAGGGGG A A A A A A G G A G G A C G G G A A A A $\mathcal{A} G A G G G G G A G G G A A G G A A G G G A$ A $G G G A A G G G G A A G G G G G G A A A A G G C C A A A A A A G G G G G A A A A A$ G GCCGGAAGGAACCAAAAGGGGGGAAGGGGAAGGGAAAGGGG A A G G G G G G G GCCAAAACCGGGGAAAAAACCAAAAAAGGGGAA AA $\operatorname{A} G A A G G A A G G G G A A C C A A A A G G A A G G G G A A A A G G A A G G A A$ G G A A A ACCAAGGGGAATTAAAACCAACCAAGGAAAACCGGAA G G A A C C G G A A G G G G G G A A A A A A G G G GCC G G G G G G A A A A G G G G G G G G A A A A G G A A A A A A A A A A A A A A A A G GAA G G GGGGGGAAC C G G G G G G A A G G A A A A G G C C G G G G G G G G A A A A G G A A A A A A G G A A G G G G A A G G A A A A G G G G G G A A G G A A A A A A G G G G C C A A G G G G G G A A G G G G G G A A G G G G G GCCAAACCAAAAAAGGCCGGCCAAGGGG
 G G G G G G A A G G G G A A A A $A \operatorname{G} A A A G G G G C C C C G G G G A A G G G G G G G G$ G G G G G GCCGGCCGGAAAACCGGGGCCGGGGAAGGGAAAGAAA AAGGGGAAAAGGAAAAAAAAAAAAAAAACCGGAAGGAACCGG G G G GAAAAGGGGGGAAAAGGCCAAAAGGGGCCAAAAGGGGAA
 GACCGGGGAAGGGGCCAAAGAAGGGGGGAGGGAGAGG
GAGAGGGGGGGAGACGGGGAAGGGGAGAGAGAAGGAAGGGG A G G G A A G G A A G G A A G A A G A T T A GAGGA GAAAAAAAA A A A A G G G A GAGAAAGAAGACCACGAGAAGGGAGGAACGGGGGGGAAAGG AAAACCGGGGGAAAAAAAGAGAGGGGGGGACCGGAACCAGBA A A A G G G G G A A G GAACCAGAAAAAAGGCAAAAAGAGAAGAAA G A A G G G A A A G G A A G G A G A A A CAACAGGCCGAGAGGGAAA G GA G CACCGAAAAACAGGGGGGGGGAGATAAGGAGGGGGGGGTAGG A G GAAA A G CAA A A GAGGAGGAGAAGAAGAAAAACAGCAGAGG
 GAAGCAAAGAGAAGCAAAAACCGGAGGGGAGAGAACAAGGCC A A GAA A A G GAGAA $A \operatorname{AAGCAA} \operatorname{A} A A A G G G G G G G A A G G A G G A G G C A$ GAAGAAAACATTGAGGAGAAGGATGAGGGGACAGGGGGCCAG $G G A A A A G G A A G G G G G G G G G A G A G A A G G A A A G G G G G A C C A G G G$ G GAGGAAGAGGGAAGAGGGAGGAAAGAAGGAAGGAAAACAAA $A \subset G G G A C C G A A G A G A G G G G G C C A A A A A A A A A A A G A G A C A G G G$ G G A A G G A A A G G A G A G G A G G G A A A G G G G G G G G G A A G G T T C C G G
 C C G GCC C A A G G A G G G A A G G A G G G G A A T T G G G G T T A A A A A A G G G G G G G G A A A A A A C C G GAAGGGAGAGAGGAGGGGACCCCAAGA

GAAAAGGAAAGGAACCAAGAGGAACACCGGGGAAAACAAAGA
 A GAGGGGGAGGGAGAAGGCAACGAATAGGAGGAAAGGGAAGA GAAACAGGAACCGGGAGAGGAATAAGCCGAGGAAAAGAACCC
 A GAGAACCGGGGGGAGGGGGGAAAGGGAAAAAGGGGACAAGG G G G A A G G G A A G GCAAAGGAGAAGAAAGGCCAGAAAGGGAAAA GAAGGAAGAAGAGGGAAGCCAAAAGGACAGGGGAACGGGGGA
 G G G G G G G G G G G G A G A A G A A GAAA $A \operatorname{A} G G G G A A G G G G G A A A G A A A$ GGCCGAGGAGCAAGAAGAAAGGGGAAGGAAAAAGAGAACABA GAGAGGGAGAACTTCCAGGGGGCAAAAAAAGAGAGGGGAAGA GACAGGGGAACCAAAAAGGAAAGGGAGGGGAAGGGAGAGGGG AAAAGGGGGGAAAACCAGAAGGCCAAAAAGGGGAGGAAAAGAG AAGAAAAAAACCAAAGAAAAGAAAGAGGAGGAAACCGGGGGA $C C G A G A G G G G G G G G A G G G C C G G G G G A G A G G G A A A A A A A G G A A$ G GAGGGGGGGGAAAAAAAAAGGCCAGAAAGGGAAGGGGAACAC A GAGAA $A$ A A A A GAGGAA A G GAGAGGAGGAGAGGGA GAAAAAA TTACAGAAAACAAAGGGGGAGGAAGACAAGAGGGAGAACGAA $A G A G A G C G A G A A G G G G G G A A G A A G A C A A A G A A A G G B A A G G G G$ GATAACAAGAGAGGAAGGAACCCCAAACAAGGGGGAGAGGAA A G G GAA A GAGAGGGGAAGAAGGAGGGGAGGAAAAAAGGAAGA G GAGGACCCGGAAAGGAAAAGGGGCCGAGACCAGAGAGCCGG A A G A A A G G A G A A A A A A G GCCGGGGCAGAGGGGAACCAAAA GA GAAGAGCAAAACGAACAAAGGGCCAACCAGAGCCGGAGGGGG AAAGAGCCACAAAGAAGAAGCAAGAAGGAGGGAGAAAGGGGG G G GAA A GAAAGAACGAGAGAGGGGGGCCGGGGGGGGCAAAGA GAAGGAAGAAGGGGGGAAAAGGGGAGCCAAGGAAAGAGAGAG GAGGAGAAAACCGGAAAAGGGGAAGGAAAGGAGAAGAGAACA GAAAAAAAAAAAATAGAGCCAAAAGAGGGAGAGAGAGAGAAA A A A G A GAAAAAGCGGGAAGGAAAAAGGAAAAACCAAAAAABG G GAAAAAAAAGGGGGGAAAAAAGGGGAAGAAAATCAAGAAAA A A A G GAA A G G G GAAAAAGAGAGGGGGACAAAGACAAAAAAAA GAAGGGCCGGAGACAGGACAGAGAGGGGAAGATTCACAACAA AACCAAAAGGAGAAAAGAAACCCCAAGGAAGGGAACTXGGGG G GAA A GAAAAAAAAAGGACCAAGGAAAGGGGAAAAAAAAACA G G GACAAGGGGAGGAGGAAGCCAGGGAAACGAGGAGAAACAC A A A A A A G G G GAAAAAAAAGGGGGAAAGGAAAAAA GAAACCAA CAAGCAGGAAAGGGGGCCAAGGGAGGCCGGAAAGGGAGAGAG GA $\operatorname{G} A \mathrm{~A} G \mathrm{G} A \mathrm{G} G A A C C A A G A A C A G A G G G C C G G A A A A C C A A A C B A$ AGCCAGGAGAGAAGAAGAACGGAGGGGAACGACAGATTAAAA A A A G G GAAAA A $A \operatorname{AGGACA} \operatorname{A} A A A C A G A G A G G A A A A C C A A G A A G C C$ G G G G G GAGTTAGAGGAAGAAACGGAGAGAGAAAGAAGGGGCA G G G G AC G G GAGGCAAGAGAGAAGAAAAAAAGAAACACACAAA G G G G A A G G A A A G C A G G G G G G G A A A A A GAA $A \operatorname{AGGCXA} A G A G G A A$ G GAGCCAAAAGACCCAGGAAAAAAAGGGAAAAAGAAAAGGGG A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{C} C \mathrm{C}$ A A A A GAACAAGAGGAGAAGAGGGGAAAAG A GAAAAAAGGAACAGAGAAGCAAAGGCCAAAAGGGGGGCCGG $C \subset A A A A C A A G G G C C C C C C A A C A G A A G G G G G T T A A G G C C G G A G$ G G A A A A G G GA G G G A A G A A A A A A A A A G G GAGAGAAAA A A G A A G A A G G G A G A A G A G G G T T G A G A C C G G A A G G G G A G A A G G G G G A G A GAAGAGAAGGCCAACCGGAAGGGGGGCCAAAAAAGGGATXGG G G A A A GA G GACCAAAAAAGAAGGGCAAAGGACAAAGCBAGAA $A G G G G G G G C C A A G G A C G G G A G G A G A A T A G G G G A A G G G G A A G A$
 CACCGGGGGAACACAAAAGAAAAAAAGGAAAGAGBAGAGGAG AAAAGGAAAGGAAAAGGAAAAGAGACAAAACAAAAGC GAAAAA
 $G G C C A A A A A A G G G G A A A A A A G G G G A A G G A G A A G G G A G A G A G G$

GAAAGGGGAAGGGGGGAAAGAAGAGGGGACGGAGGGGAAAAC C C T TA GAA G GAAAAAATTAAAGGGCAGGAAAAAACCAAGAAA AAAACCGGAAAAAAGGCCGGGAAAAACAACAGGGAGAAGGGG GAGAGAACAAAGGGAAGGCCAACCAAACAAGGGAGGGGGGGG G GCCGGAAGGGGAAAAAGGGAAAAGAGGGGAAAAGGGAGAGG G GAGGGAAGGGAACAGAAAAGGGGGGCCAGAAGGGAGAAAAG A A G G A A C A G G A A G G G G G G G G G A G A G G C C C C G G A A G G A A A A C C AAAACCGGAAAGGGGGAAGAGGGGCCGAGGAAAACAGGAAGAG A A C C A A A A A A A A A A A A C C C C G G G GACG GAAAAAAAAA G G GA A $A C C A G G A G G G A G G G G G A A G G G G A A A A A G A A A G G G G A A C G G G G$ G G G A A G G G G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAAAGAGGGAAACGAGAGAGG G G G G G G A G A A A A A A A A A A G G G GAAAAAAAAACCAAGGCAAAA G G G G GAA A G GAAGCAAGAAAAAAGGAAACAGAAAGAGAACAAA G G A A A A A G GAGAAAAGCCGGAAACAAAAAGGGGAGGCCAA GA AA $A$ ACCGGGAAGGGGGAGGGGGAAAAAAGGAAGGGGGACAAA AA $\operatorname{A} G A A A A A A G G G G G G A A G A A A A A G G A A A G G G G G A G G G A A A G$ G G A A A A A A ACAACCGGAAGGAAGGACAAAAAACAGGGAGA GA AAACGGGGAAAAAACGAAGGCCCCGGAAAAAAGGGGGGAAGA GAAAAGGGGAGAACCCGGCCGGAGAAGGAAGGGGAGCCGGGG A G GACCAACAAGAGGAGGCAAAAAGGAACCCCGGAGAGAAGA G G GACCGGGAAAGGGGGGCCGGGAGGAACCGGAGAGGGGAGA A GA A G G G G A G G G G G A A G G A A T A A G G A G G G A GAA A A G G G G G A A G GAAGGACCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGGG ACGGGGAAGGAACCGGAAAAAACCCCGGGGAAGGCCCAAAAA A A A A G GCCAAAAAAGGAAAAGGGGGGAAGGGGAAAAAAGAAA
 G G G G G G G G G GAAAAAAGGGGGGAAGGAAGGAAGGGGAAGGGG A A G GAAAAAAAAGGCCGGAAGGGGAAGAGAGAAGGGGGAGAG
 G G G G G G G G G GAACAAAAACAAGAAGGAAGGACGGGGAACCAG $G G C C A G A G G A A G G G C G A G G G G G A A A G A A C C G G G A G G A G A G G G$ $C \subset A G A A G A A A G A G G G G A G G A G G A A G G C A G A G A A A A G G A A A A G$ G G G GAAAAAACCACACAGCCAAACAAAGAAAAGGAAAAATAG $A G G G G G G G A A G G G A A A A A G A A A G G A A A G T T A A G G A A G G G G G G$ G G G G G GAA $A \operatorname{GAA} A G G C \subset A A G A G G A A A A G G G G G G G A G A C C A G A A$ A A G G G G G GCCGGGGGAGGAAGGACGGGGCCAAAAGAAAGGAA CAAAAACCCCCCCAAAAACAACGGGAAGAAAAAAGAGGGGGA TAGGGGCCGGGGGACCAGGGAGAAGGAGAGGGGGGGCCGAGA C C G A G A A GAACCCCGGAAAGAAAGGAGCAACCCAGGAAAAGAG A A G G G G A A G G A A G G C C G G A A A A G G G G G A G A A A C A A G G
$G C C G G A C G G A A G G A G G G A A A A G G C C A A A C A G G G G G C A A A G G$ GACAAGCCGGAAAACAAGGGAGGAAAGGAGGGGAGACAGGGG G GCCGGAAAAAAAAAGGGGGAGGGGGGGGGAAGGCCAAAAAA G G G G A A A A G G G GCC G G A A G G A A A A G GAAGGAAAAAACAAAAA G G G G A A G G A A A A A A C C G G G GAAAACCAAGGCCAAAAAAAACC C C G G G G A A G G G GAA A G G G G G A A A A A A G GAA A G G GCC G G C C A A A A G G A A G G A A G GAAAA A G A A A A G G G G A A A A G G G G C C A A A A A A G GAAAAAAGGAAGGGGGGGGGGGGGGGGGGAAGGGGGAAAGG A A G G G GAA A G A A G G G G G G A A G G A A G GAAAA A GAA G GAA G GAA AA $A \operatorname{GGGAAAAAGGAAAAGGAAAAAAAAGGCCGGAAGGGAAAGG}$ C C G G G GAAAAAAAAAAAAAAGGGGAAAACCCCGGAGAAAGGG G GAAGGGAAACCAGAGAGGGGACCCCGAGGGGAGAGGGAAAG $A G C \subset A G G G G G G G A A G G A C G A G A G G G G C C G A G G A A A A A A G A A A$ A G G G G GAGAAAGAGGAGAGGGAAAGGAACCGGGGAAAGAGCA $A G C C A A A A A G A A G G G A A G A G G A G A A A A A G G A A C A G G G G A G A A$ GACCGGGGGGAAGGAAAAAAGAAAACGAGGAGAACCGGGGAG G G GAAAGAGAGAAGAACCAGAAGGAAGGACAGAACCCAGGAC A G A A G G A C G A G A G A G G G G A A G G G G G G A A A A G G G G G A A A C C G A GAAGAGGGAAGGGGCAGGGGCAGGCCCAAGGACAGGCCGGAG

C CAAAAAAGGGGAAAAGAGAGCAGGAGAGAAGAAAGGGGGGG C CAGGAGGAACAGAGGGAGAGGAAAGGGGAAGAGAGGGAACA GAAGGAGGGGCCGGGGAAAAGGGGAAGGAGGGCCAAGGAAAA G G G GAGAGAAGAAGGGAGGAAGGGGAGAGAAAAAAGAAGAAA A A G G G G G G G GAGCAC G G G G G A A A A G G GAGGGGAA G G C C C C G G G GAAGATTAAAAAATTAGCAGGGAAAGCAAGAAAAGAAAAGG A A G G A GCAGGCC G G $\mathcal{C} A G G G A A G G G G G G A A G A A A G A C C G A C C A G$ AAGGAAGGGAAAGGGGAAAACACAAGGGAGAAAACCCAGGAA C C A A A A A G A A G G G G G GCCAACCGGGGAAGGGGAAAAAAAAAA GAAGGAGAAAAGAGGAGGGAAGAGGGCCAAGGATAACC GAAG A GAA A GAGAAGGGAGGGACCGGAAAGCCGGGGAAAAGAAAGG G GAAAGCCAGAAAGAGGGGGAAAAGGGGCCGGAAGAAAAAGG AACCCCAAGGAAAAAAGGAAAAAAAAAATTGGACGACAAAAA AAAAGGGAACGAGGGAAAGGAAACAAAAAGGGGAGGGGAAAG A A A GAGGGGGCAGGGGCAACGAAAGGAGAACGATACAAAGGG AAAAGAGGGAGGAAAGGGAACCAGGGGGAAAGGGCCGBAAAA
 A GACAAAAGGGAACGGAAAAAAGGAAGGAACCAAAAGAAAGG AACCGGGGGGAAGGAAGGCCAAGGAAAAGGAAAAAAGGGGGA G GCCCAGGGGAAGAAGGGGGAAGGAAGGCCAGGGGGAAAGAG A GAGGGAAAGGAGGAAAAGGAAGGGGGAAAAGAAGGGAAAAG G GAGGAAGAGAGGGGAAGCCGAAGAAAGAAAGGGAAGGCAAA C C G G G G A A A A A A A A A A A GA GAAA GAAGAGAGGAAAAAAA G GA G G G G A A C C A A G GAA A G A A A A G G G G G G A A G G G G A GA G C C A A A G A G G G A A G G G G A A G G A G G G C C G G A A A A A A G G G G G G A A A A C C C C G GAAGGAAGGCCAAGGAACCAAACAGAAGGGGAGGACCCAAA $C \subset A A C C G G G G G G A A G A A A A A A A G G G G A A C C A A A A A A G G G G A A$ G G G G A A G A G A G GAAAAAAGACGGAAAAGGGGCCAAGGCCAGAA G G G G G G C A G G A G GACC GACAAGGGAGAAGGCCAAAGGGAAGG G GAGGGAAGGGACCGGAAGACGCCAAGGAAAAGGGAAGGGGG G GAGAGGGAAGAAGGAGGGAGGAAAAGAAAGGGGGAAAAAAA GGAAAAAAGGCCGGAAGACCGGAAATAAGGAAGGGGAAGGTT AACCAAGAGGCCAAGGAAGGAAAAGGCAAGAAAAAAAAAAGG
 A A G G A A A G A G A G A A GAAAA $A \operatorname{AGGGAGGCCGGCCGGGGGGGGG}$ A A G G G G G G A A A A T T C C A A $\mathcal{A} G G G G G G G G G A A G G A G A G G G A A A C$
 G GAAGGAAAACCGGGGAAGGAAAAGAAACGGGACAGAGAAGA $A C C A A C A A G G A A C A A G A A A G C C A G G G G G A G C C A A A G G G A G G A$ GAAAAAGGCCGGGGAGAAAGACAACCAGGGCCAAAGGGGGAA $G G A G A A A G G A G G A A A G G G A G A G G G A C A G A A G G G A A G A A G G G G$
 C C A A A A G G G GAA A G G GAAGGCCAGAAGGGAGAAGGA GAA GAA AA G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} G A A A C A A G A A C C A G G A A G G G G G A G G G G G A A$ C C G GAA $A \operatorname{GAAAA} \operatorname{A} A A A A T T A G A G G A A G A G A G G A G B A A G G G G G G$ A ACC G A GAGGGGAAGGGGGGAAAAGGGGCCAGAGCCABAAAC C C A A A A G G G G G A G G A G A G A G G G G A GAGGGAGAGGGAAA G G A A G G G G G G G G G GAACATTCCGGGAGAAGACGGACAAGAGAAAAG AAAGAAGGGGAGAAGGGCGGGGAGTAGGAAAAGGAACAAAAAA G G G G G G A A A A G GAA A G G G A A A A G G G G A A GAA A G GAAAA A A A G GAACGACCAGGGAACCAGGGAGGGAGCCGAGAAGAAAAAGGG
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C CAA A G G G GAAAAGCCAGGGGGAAGGAAGAGAAAGGAAAGCC GAAGTAAAGGAGAGGGCCGGAAAGAGAAAGCAAGGAGAAAAA GAGGGGCCAGCAAAGAACGAGGCACCCCACAGACAGAGAAGG
 A G G GAGAAGGGAAAAGGGGAGAAGGGAAAAAAGAAAGGCAAA C C A A G GAAAAAGGAGGGGAGAAGAGAAAAAGGCCCCGGAAAA GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGGAAAAAG $G G A A A A G G C C G A G A A G A G G C A T A G A A A A A A A A G A G G G G G G G A$ G G G G G G G G G G A G T T A A G G G G G G G G A A C C G A A G A G G A G A G A G G AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A \operatorname{A} A A A G G G G A T A A A A G A G G G G A G G G G A G G$ GAAAACAACCAAAGAGGGGGAGAAGGTAGGAAAACACAGGGG AACCGGGGAACAAAAAGGAGGAACGAAAAAGGGAAAAAAAAA A A G A A C A A A A A A A A C A A A A G G A GAAACCGGGGAGAAGGAAAA $C \subset G A C C G G C C A A A G A G A A A A A A G A A A G G A A G G G G A A G G A A A C$ A AAAAAGGGGAAAAAGAGCCGGCCAGGGGGGAGAAAGAAAAG G GAGAAAGAAGGCCAAGGAAAAAAGAAAGGAAGGGAACGGGG CAACGGGGGGAAGGGGAACAGAGAAAAAGGGGGGAAGGAAGA A A G G G G A G A A G GAA $A \operatorname{GGGACAAAAAGAGGCAGGCACCCCAAGA}$ AGGAAAAGAAAGAGGGGGCAGAGGAAAAGGCCGGGGAAGAAA A A A A A A A A A G A G A A A A A A G GAAGGAAGGAGAGAAAA GAAAA G AGAGCCGGGGCAACGGAAGAGGCCAAAACCGAGAAGGGAGGG GAGGAACGGAAAGGAGGAAACCAAGACAAAACAGCAAGAGAC G G G G G G G A G G G G G G A A $\mathcal{A} G T T G G G G G G A A G G G G G G G G G G G G G G$ A A G G G G C C G G A A G G G G A A $\mathcal{A} G G G G G G G A A C C G G A A A A A A G G G G$
 A A GAAAAGAGAGAGGGAGGCAAAACCGGGGCAAGBAAGAGCC AAACGGGAAACCGGATGGAAGAGGAGAAAGAGAGGAACCCGG A A A A G G G G CA $A \operatorname{GCCA} G G A G A A G G G A G G G G G A A G G A A C A A G A A$ G G G G A A A A CAGGCC GAGGAAGAGGCCAAAAGAAAGGAGGCCA CACCGGAAGGAAAAAAAACCAAAGAAAGAAGGAGGAAAAAAA A A GAAAAAAGGAGACCGGGGGGAACCAGAAGGGGAGCACAAA AAAAAGGGGGAAGAGGAAGCAAGGAGGGAAGAAAAAAGAGGG A A A G A A G A G G A A G G A G G A G G G G G G GAAA A A GAGGAA G G TAAC AA G G GAAAAGAAGGAAAGAAAGCCAAACCAAACCAAGGAGAG C C G A A A A G G G G G G G C A G A G A G G C C G G G G G G G G G G G G G A A A A A C CAA GAGGCCAGCC GAAGAAAACCAAAAGGCACAGGGGGGAG A A A G G A T T G G G GAACACAACGGGAAGAACCGGAGGGAAAAAA $C \subset A A A A G G G G A A C A A A G G G G G G G A G C G G A G C C G A C A A A A A G G$ G G A A A A A G A G A A G G GAAAAAAACCAAGGAACCGAAACCAGAC G GAACCGGGAAGAGAAGGAAGGAAAAAGGGAAGGAGC
AAAGGAAAAAAGAAGGAGGAGAACGGGAAAGGGGGAAAGAB A G GA A A G GCCCCAAAACAAAAGGGAGGGAAAGAGTTAAAAAA $C \subset G G G G G G A A C C A G G G G A C C G G G G G G G G C G A G A G A A A A C A A G$ GACAAGACAAGGAGAGAAAGAAAGGAAAGACCAGACGAGGGG AACCGGAAAAGGAAGAAAGGAAACAGTAAGAAGGAAGGAAAA A A A G A A A G CA $\operatorname{A}$ G $\operatorname{A} A A A A G G G A A G G G A A A A G A A A A A G G G A G G A A$ CAGGGGGGGACCGAAAGGAAAAGGGAGGAGAGAGACAGAAAG GAGGGAGAGAACCCAAAAAAGGGGCAAAAGAAAACCCC GAAA GAGAAGAGAGAAGACCGAGGAAGAAATAGAGGAAGGCCGGCC A A G G G G G G A A A A G G A A A A CAGGGGAAGGAAAGGGAAAAAAAA $G G C C C G A A G G A A A A G G G G G G G G A G A A G G A A G C G A G G A A A A G G$ AGGAGAAGGGAAGGCAAAAAAACCGGCCAACCAAGGGGAAGA $A G C C G A A G G A G A A G G A A A G G G G G A G G C C G A A A G A G G G B A A G G$ $A G C C A A G G A A A A A A G G C C G A C C A G A G A G G A A A G G A A G G G G G G$ A G G G G G A A A A A A G G G G G G G A G G G G A A A A G G G G A A A A A A G G G G A A A A C CAATTAACCGGATACAGGGAGACGAGAAAGAAAGGGG A A G G C C A A A A G G A A A A G G G G G G A A GCGGAAGGTTCCGAAAAA
 A GAGGAAGAAAGAAAAAGGGCCGGGAAAAAAAAAGAAAAAGG

G GAACCTAGGAAGGGGAAAAGCGAAGCATTAGGGAGCAGAGG A G A A A A G A A G G G A G G A G G G G G G A A A A A GA GAA A A A A G GA G A A $A C G G G G C C G G A G G G G A A A G G G G C A A G A G G G A A G G G G A A G A A G$ A GAAGGGGAGAGCAGGCCAGAGAAACAAGGGAGGAAAAAACA AAGGCCGGAAGGGGGGCCAACCGGGGGAGAGACCAACCAAGA G G G G C A A G A G A A G G G G C A A T G G G G G A G G C C C C G A A A G G G G A A A A G G A A C C A A A A A A G GCC G GAGGGAAAAGAGGAACAGGGACC GACCAAAAGAAAGGAAAAAAAAGGGAAAGGGAA GTAGGGGGG A A G G G G A A G G A A G G A A A $\mathcal{A} A G G G G G G G G G G G G G A A G G G G A A A A$ $C \subset A G A G A A A A A G G G G G A C G G A A G A A A A A A A G A C C A A G A A A G G$ G GAGGAACGACAAGAGGAGAGAAGCAGAGAGAATGGACAGGG C C G A G G A A A G A A A G A A T T G A G G C A GAGGAAAA G GAAAA G G G A GAGGGACCAAAAGGAAAGCCACGAGAGAAGAAAGGGGGAAGA A G G A A A G A A A GAGGCAAGCCAAGACAAAAGGGCAAAAAAGGG
 GAGGGGGGGAAGAAAAGAGGGGAAGAAAAAAGAGGGAAAAAA AACCAAGGGGGGAAAAGGAGAAAAAAGAGAAAGGGGCCAGAA A A A G A A A A A G G GAA A A G GAGGGAAAAAGAACGCCAAGBACCC CAGGAAAAGGAAGGCCAAGGCAGGCCGGGATAGGAGAAGGCC G G G GAGGGAAAGCAAGAGGGGACCAAACGGCCGGGGGGAGAA G G G GAAAAAAGGAAGGAAGGGGAAGGGGAAAGAAAGAGAGAA AC GAGGGAGAAGGAAGCCAAGAAAGGAAGGAAAAGAAGGGAG GA $A \operatorname{GGG} \operatorname{G} A A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G G A A C X$ G G G G G G A A G G A A A G C A A G C A A G A A G G G G G G G G A A C C A G A A G G A A G G A A A A G G A A G A G G A A A C A GAC G GAGGGGGACGAAGACA G G G G A A A C C G G G GAA A A G GAA $A \operatorname{AGGGGAAAGGAGGAGACAAGAG}$ G GAAAAAGGACCGGAGGGAAGGGGGGCCAGAACCAAGGAAAA A A GAAACCGGAAGGGGCCACGGCAACCAACAAGGGGAGAAAA
 AA $A G G G G G G G A A G G A A C C A A A A A A G G A A A A G G G G A A A A A A G G$ G GAA $A \operatorname{GAA} A G A A C C A A G G A A G G G G G G A A A A C C G G G G G G G G G G$ G G G GAGGAAGGGGGGGAAAAAAGGAGCAAAAGGAAAAGAAAG
 $G G A A G G A C G A G G G G A A G G A A G G G G G G A G A A A A C C A G A A A G G G$ G G GAGGACACGGGGCAGGAAAAAGCGAAGAAGGAAGAGAAGB A G A A G G G A A G G A A A A A G GCCCCAACCAAGGGGGGAGAGAAA G G G GA $\operatorname{G} A \mathrm{~A}$ G A GACGGCGGAGGACCCGGGAAAAAACAAAAGGAA
 G GAACCGGAAAAAAAAGGGGAAAAGGGAGAGGAAAAAGGGGG A A G G G G G GCCAAGGCCAGGGGAAACCAAAGAAGGAGAAAGAG A GAAAGGGGAAGGGACAAAAAGAAGGAAAAAAGAGAAAGGAA GAAGGGAGGAGGGAGGCAGAAAAACCGGAAGGGAGGAGAAGA G G G GAAGGAACCAAAAAGAGGGAAGGAGAAGGAGGGGACAGA G G A A A A A A G G A A GAACAAAAAGCAAACAAAAGAGGAAGAGAC $C \subset A A C C A A A G C C G G C C G G T T A G G G A G G G G G G A G A G G A G A G B A$ G GAA A G G G A GAGGGGAGAAAGACAGAGAAGAAGGGGGA GAAA A G G G G A G A G A A GAA $A \operatorname{G} G A G A G C C C C A C G A G G G A G G A A G A A A G B$ A A G GAA A G G GAAAAGAAAAAGGAGGGAAGAGGCAACGGAGAA G GAGGGACGGGGGGAAGGAAGGAAAGGAGGCCGGAAAAAGAA G G G G G G G A G G A A G G C A G A G G T T G A A G GAGGGAGAGAAACAAA A A A A A A A A G G G G G GAAAACCAAGGAGGGCACCAGCAAA GAAA G GAAGAAGAGAACCAAGAGGCCAAAAAAAACCAAAAGGGGAA G G A A C C A A A A G G G G G G A A A A C C A A A A A A C CAAAA G G A A A A A A AAGGAAGGAAGGAAAAAAGGAAGGGGGGGGGGGGGGGGAACC G G A A G G G G A A G G G G G G A A G G G G A A A A A A A A G G G GAAAA A G A A $G G A A A A A A C C A A A A A A G G A A A A A A A A A A G G A A G G A A G G G G G G$ G G G G G G A A A A A A G G G G A A A A A A A A A A A A A A C C G GAA G G G G G G AAAAAAAAGGGGCCAAAAAACCGGAAGGAAGGAAGGAAAAAA G G G GAAAAGGGGAAAAAGGAAGAAGGGAGGAAGGCCGGGGGG

G GAAGGGGAACCAGCCGGAAAAGGAGGAAAAGCCAAAGAAAA G GAGAAAAAAGGAAAAGGGGAAGGTAGAGGAAAAAGCCACAA G GAACAGGGGCAGGACAAAAGAAAGAAAGGAAGGGAAAAAGAG G GAA $A \operatorname{GA} A A A G G G G A A A G G G G A G A A C G G A A G G G G G G A A G G G G$ G G G G G A A GCGGGAAAAAAGGGGGGAAAAAAGAGGGGAACCGG G G G G A G A A G G G GC G G A G A A G A A A G G G A A A A G C A G A A G G G A A G CAGAGGAAAGAAGGAAAAAAGGAAAAACGGCCCAGGAGGGGG T T G G G G A A A A A A G G A A G G G G G GCCAAG GAAGGAAAACCAAG G C C G GAA $A \operatorname{GAAAAAAAGAAAAAACCAGAGGGGAAGGAGACAGCC}$ GATAGGAAGGAAAAGGGGGAGGGAGGAGGGAGAAAACAAGAG GACCCCAGCAGGAAAACCAACCGAGGAGGGAAGGGGAAAAAA
 GAAGCAGGGGAAAGAGAGACGAAGGGAAAGGGCCGGAAAGGG AAAAAGAGAAGACGAACCGGGAAGACGAAACCAAAGGGGGAG G G G GAGAAAACCGGAAAAGGGGAGGAAAAAAAAAAAAAAAAG G GAGAAACAAGGGGAACCATAGCACCCCAAAAGGTTAATTAA G G G A A A G A A A A A GAGGGAAGAGGAGAGGAGCAGAAGAAGAAA
 AAAAGGGGGGAAAATTAAGGGGCCGGCCGGCCGCAAGACAAG G GAAAAGGGGCGAAGAGGAATTCCACAAGAGGCCCCGABAAA G GACAGCCAGGGAAGGAAAAGGCCGGAACCGGAAGAGAAAAA G GAAAAGGGGAAGGGAGAGGGAGAAAGGCAGGGGCAAAAAAA
 A A G G A A A A G G G G G A A A G GACGGGGTTGGCCGGAGCCGECA GA A A A A A CAAAAAAAAGGGGAAAAGGAGAAGGGAGAAAGGGGAA ATAAGAAGGGAAGGAAGGCCGGAAGGGAGGGAGGAAAAAGAA

 G G A T A G G A A G G A A C G G G GC C C C G G G GA GAGGGAGGG GA G G A A GAGGGGGGGGGAGAAGAGGGGGGAAAAAAGGGGGGGAAAAAA A GAGGAGGAGAAGGGGGGAAAAAAGAAAAACCAAGGCCGGGG AAGGGGAAGAGGAAGGAACCAAAGAGGACCAACCAAAAAAGG G G A A T TAATTAAAAAAAAGGAAGAGGGACGCCAAGGAATTAA
 A A GACCAAGGGGGAGACCCAAGGGGGGGAAAAAAAGGGGGAC GACCAAAAAAGGCCAAGGCCCCGGGGAAAAGGAACCAGAAGA AAAAGGGCGAAGGGAAGGGGAGAAGGGGGGGGGAAGAAGACA $C C G G A A G G A A A C G A A G A G G G A A C C G G A A A A A G C A G A C C B G A A$ A G G GACAGAGAGAGCGAAGAGGAAGGAGCAAGCAAAGGAAGA GAGGGGCCGGGGAAAGGGCCCCCCAAAAGGAAAAGGG
GCAGAGGGGACCCAAAGACAGGAGGAACCGAACCCCACCGG
 G G GAATAAAAGGGGAGGGAAGGAAGGGGGGAAAAAACCAAAA
 CAAGGGAAAAGGAGAAAATTGGGGCCAGGAGGCCGGCCACAG A ACCAAAAAAAAAACCAAAAGGAAAGGGGAGGCAAGAACA GA G G A A A A G A G G A A A G G G A A G G G G G A G G A A C C A A G G A T G G A G G G AAAAGGAAAAGGAGCCGAGGCCAGGGAAAAGAAAGGAAGAAA AAGGAAGGCCAAAGAGAGAAGAGGCCGGAAAAGGAACACCGG G G G GAA A ACCGGCGGGAGAAAAAAAAAAACAAGGGGGGCCGG G G GAGAAGGAAGCACAGAAGAAAGAAGGAAAAGGGGAGGGCA CAAAAAAACCCCAGGGAGAGGGAAGGGAAGGAGAAAAAGGGG CAAGGGAAGAAACCAAAAAGAGAAGGAGGAAGAGAAGGAAAA $C C G G G G A A C C T T G G A A C A A A G A G G G C A A G G A G G A A G A G A A G G$ G G G G G A A C A A G GAA $A \operatorname{GT} T \mathrm{~T} A A A G G G A A A A A A C C C G G A A A G A G G$ G G G G G G G A A C A G G G G G G G A A G A G G G G G G A A G G G A G G G G A A A $G$
 G GCCTTGGGGGGAGGGAAGGAGAAAAAAAAGGAAAGAACAAA $A G C C A A A A A A G G G A G A G G A A G G G G G G A A G G A G A A G G G G G A G G$

A A G G A A A A G G G GAGAAAGCAGGCAGGAGGCGGGGAAAGAGGG $G G A A G G C C A G G G G A G C G A A A A A G G A A A A A A G G A A G G G G A A A A$ T TAA $A \operatorname{GAAAACCAAGGGGGGGGGGAAGAAGAAGGAACAAAAA}$ AGAAAAGGGGCCGAAGAAAAAACCCACCAAAAAGAAGGCATT A GCATTAGGCAAGCAGAGGGGAGAGGAAAGAAGAGAAAAAGAA GAGGGAAGGGAAGGAAGGAAGGGGGGGGCAGGGAAAAAACAA G GAA A GAAAGGAAAGGAGGGGAGGAAAAAGAGGGGGGAAAAA G G G GAA A A A C G GAA A A T TAAAAAAAGAGGAGGGA GAAGGAGA G
 GACAGAGAGGGGGGGGGGGCGGGAAGAGGAACGCCCAAGAAA G GAACCAAAAAGAGGGCCGAAAGGACCAAAGAGAGAAAGGAG
 A A A A G A A A G G A A A A A A A A G GAAAGAGAAGGAGAATTCAGAA G GGAGAAAAAAGACCCAAGAAAGAAAAAACCCCAAACAGAAGA A GAAGGAAAAGGAGAGCAGGCCAGCCGAGAAAAAAAAGAGGG G G G G G GCCAA G GAACCGGGAGGAAAAAAACAAGGACGGGGGG AAAACCAAGACCGGGGGGAGGAAGGGAAGGGGGGTTAAAAGG GAGGGGAAAACAGAGAGGAACCAGGGAGTTGGGAGAGAGGCC AAGGAAAAGAAGAAACAAGAAGAGGAAGAAAGGAGGCAAAAA G G G G G GAA A GCCAAGGAAGAGGAAGAGGAAAAGGGGAAAAAA G GAA $\operatorname{l}$ GAA $\operatorname{A} G A A A A G G A A A A A A A A A A A A A A A A A A A A G G G G G G$ G G G G G GAACCAAAAAAAAGAGGGAATAAAAAAGGAGGAAAAA $A G C C A G A G G G A G A G A G G A G G G G G G G G G G A A G G A A A A C A A G A G$ ACTAAAAAAAGAAAAGGAAGGGGACAGGCCGGGAAAAAAACC
 G G GAGAAAAACCAAGGAAAGAGAGGAGGCCACGGGAAGACAG A A A A A A GAGGGAGGGGCAACGGAAAAGGCCGGAAAAAAGGAA G GAAAGAAAAGGGCACAGGGAACCAAACCAACCCGGAACCTA A GAG $A \operatorname{GAG} \operatorname{A} A A G A A G A A A G G G A A A T A A A A G G A G G G A G G A G G G G$ A GACAGGAGGAAAAGGGGGGAAGGCCGGGGGGAAGAAAAAAA GAAGGGAGAAGGGAGAGAACAGCCAAGGAGGGGGAAAAATAA $C \subset G G A A A A C C A G G A G G G G A A G G G G A A A G C C A A G G A A G G A A A A$ CAGAAAGATTGGGGAGAAAGCCAGAAAGAAAGAGGACCAGAA
 G GAAGGGGACAGAAAGGAGAGGGGAGGAGGGACAAAGGAAAA C CAA $A \operatorname{GAAAAAGGGGGGAACCAAGGAAAAGGGAAAAAAACAGA}$ G G G G GA A ACACCGAACGGAAGAAGGAAGAGGAA GAAAA G GAAG G GAGGAACGGGAGGAAGAAGAAGGGGAAAAGGGGGGGGACAA G G A G A G G A A G A G A G A G G A G G G A G A G G G G G G A A A A G A C G C C C A $A C G G G G G A A G G G A G A G G A G G A A G G G A A G G G G G A A G G G G A G A G$ G G G G A A G G G G A G G C G G G A A A G G A G G G G G G C G G G G G G A A G G C C G GCCGGAAGGAGCCAATTAAGAACAAAGGGAGGAGAAAACAB AAAGAGGGGGCCAAGGAAAGGGGGGAGGAAGGAAAAAAAGAC C C G G G GAA $A \operatorname{GG} \operatorname{GAA} \mathrm{~A} A \mathrm{G} G A A A A A A G C C G G A A A A A A A A C C A G A A$ G GAGCCGAGAACAAAGGGGGCCAACCGGGGAGGGAGGAAGAG G G G G G GCC G G G A A G G G A G A GA G A A A G GAA A G A A A A G G G G G A G $A G C C A G A A G G A A A A A A A G A T G G A A G G C C A A G G A G A G G G A A C C$ G G G GAGCCACAAAAAAAAAAGGGGAAAAAGAAAAGGGGAAAC TACAAAACACAAAAAAGGAACAAACCGGAAGAAGAGAGAACAA A A A A A A G G A A A A G GAA $A \operatorname{AGGGGGGGGAGGGAGACCCCGAGAAG}$ G GCCAAACAAGGACAAGAGGGAGAGAAGAAAAACAGACAAAA AC G G G G G G G GCACACAGACCAGAGAAAGAAAGAAGGGGGGGG AACCGACAGAAGAAAAGGGAAAAAGGAAGGAAAAGGAGCCGG $C A C C A A G G G G G G G G G G G A A G G G G G A A A A A A A C A A C C A A G A G G$ G GAA A G G G GAAGGGCCAGATGGAAAAGGAGAGAAGAGGAAGA G GAA A G G G G GAGGACCAAGGAAGGAAAAGGAAAAAGAGACAG AACCAAGGGAGGAGAGAGAAAGAAGGAAGAAAAGAGCAGGAA A GCC G GAAAAGGAAAAGGGAAGACCCAGGGGGAGAGGGAAAAA AAAAAGGGAAGAGGAGAAAGGAAGCCAGAGGGAAAAACAAAA
$C \subset G G A A G C C C G G A G G A G A A A A A C G A G A G G A A G A G G G G A A G A G$ A GAGAAAAAGGGAAGGGAAAAGAAAGAAGGGGGGCCGACAAA GAAGAAAGGGAGAAAGAAGGAAGGGAGGGGCAGGGGACAGAA AACACAGGGAAAGAGGAAAAAAAAGGGGAGCAAAAAGGCCGG T TATCCGGAACCAAGGGAGAGGGAGGGAATGGAGGGAGAGAA A A G G G G G G A A G G G G G G G G C C G G G A G G A A G GC C A A A G A G A G G A A G A A G G G G G G G G G G G G G G C G A G A A A A G G A C A A A G G A G G G A G G GAGAGGAAAAAAACAGGGAGGAAAAGGGGGAGAGAAAAAAGG A GACGGAGCAAAAAGGGGGGAAGGGGAAAGCCAAGAAGGGCA G GAAAAAAAGAGGAGGGAAAGGAAAAAGGGAAAAAGAAAGAA
 A G G A G A G G G G G G C C A A A A G G G A G G C A A G G A A A A A A A G G A A G G C C A C G A G G A C A GAAA A A G G G G G A GAACCGGAAGAGAAGACAA GAAGGAGGAACCACAGAAAAGAGGAAAAGGAGGACCAAGGAC C C G GCAAAAAAAAAGGAAGGGAGGAAGGGAAGAAGAGGAGAA G G GAAAAGAAGGCCGGGGAAGGAGGAGGAAGGAAGGGGCCGG ACAGGGAAGGGGGCACGAGAAGGGGGGAGGAAGACCGGACGG C C G G T TAAAAAAAAACAGAAGGAACAAGAAGGGGCCTTGGGG A G G G G G G G G GAAGGAAAGCCGAAACCAAGGGAAATTAAAAAA G G A A G G A A G G G G A A G A G A G G C A G G A A G G G A G G A GAAACCCC $C$ AAAACCGGAAGAAGAAGAGGAAGACAAAGGGACCAGGGAAAA G G G G G GCCAAAAAAAAAAAAAGCCACAAGGGGAGGGGGAGAAA A GAA A A G G G GAAAAAGGAAAAAGGGAAGACAAAGAAAGCCGG CCGAAAAGGGAGGAGGAGAAGGGGAAGACAGGAAGGAAGAAA AA G GAA A A A G GAACAAAAAGAAGGAAAAGAGAAGAAAAACAG $C \subset A A G G A C G A G G G G G G G G C C G G A A G G G G G G G G C C A A A C A G G G$ G GAAAAAAAAGGGGGGAAAAAAGGAAAAGGAAAACCGGGGGG G G T TAA A G G GCCAAAAGGAACCGGGGGAAAGGGGGGGGAGAA $A G C C A A A G C A C A A A G A G A A G G A G G A G G G A A G G G G A A G G G G C A$ G G G GAGAAGGGGGGGGACAGGAGGAAAACCAAGATTGAAACC A A A A A ACCAA G GAAAGGAAAGATAAAAGGGAAGGAGGGAGGG ACGAGGAGAGAGAGACAAGGAACCCCAAAAAGAGAAAAGGGG A GAGCCCAGGAAGGGGAAAACCGGAAAAAAAAAAGGAAAACC A A G G G G G G A A $\mathcal{A} G G A G G G G G G A A G A G G A A G G G G A A A A C A A A A A$ G G G G G GAGCAAAGAGGAAAGAGAAGGAGGAAGAAGAAAAGAA $G G A A A A G G G A A A G G G A G G G G A A G G A G A C G G G G G A G A G G A A A A$ A GAGGAAAGAACAGGGGAAAGGAGAACCGAGAAGAGAGATGG G GAACCAAAAAAAAAGGGCGCAGAAGGAAGAAGGAAAAAGAA
 GACAGAGGAAAAAGAACACCAAAAGAAAAGCCAACCC
CAAGGGGAAGAAAACGGGGAGAAGGGAAAAAAAAAAAAAAG A GAGAACCGGAAAGAAGGAAGGAAGGGAGGAAACAGAAGGGG G GAAGGAGAAAAGAAATTGAAAAGGGAAAGGAAGGAAAAGAA CAGAAAGGGGAGATTCCCCAGAGAGGACCAAGGGAAGAACA AA G G GAAACAGAACAAAGGACCAAAAGAGGAGGAAGAAAAGA $A G C C A A G G A A G G A A G G G G G G A A G G A A A G A G G G A A A A G G G G G G$ AAAAGGGACCCAACGAAAGGGAGGGGAAAGGAGGAAGGGGAG GAGAGGAGGGGGGGACAAGAAGCCAAAAGGAGAAAAGGCAGA AAAAGAGGGGAAGGCCAAAAAAAGCCGGAAAAGAAAGGGACC A GTTAAAGAAAAAAAAAAGGGGGAGGGGAAAAAGBAAAAACA AACCAAACATAGAGAAAGAAGGAACCAAGGAAGGGAGEAGAAA A G GACAGGGACCAAGGGGCCGATAGAAAGGGGCCAAGA G GAAA GAGAAAAAGGAAGGAAGAAGGGGGGGCCGGGGGAAGGBCAAC AAAGAAGGAGAAGAGAAAAAAAGGAAGAAGAACAGGAAAAAG GAACGGGGAAAAGAACACAGAAGGAAAAAAAAAAGGGGAAAC $G G A C A A A A G G A G G G A A G G G G A A A G G A G A G G A A A G G G A G G G G G$ GAGAAGGGAACCGGAAGGAGGAAGAGAGCAAAGGAGGAAAAA G G G G G G G G C A G G G G G G A A A A C A G G C C A G G A G G G G A T G G G G A A AA $A$ A A G G G A G G GAA $A G G A G G G A G A G A G A A G A C A G A G G G A G A G$

G G G G G GAGGGAAACGGAAAAGGAAAGGGAAAACAGGCAGAGA
 C C A GC G A G G GAAA $A \operatorname{A} G A A A C A T A A A G G G G G G G G A A A C G G A G G G$ GGCAGAACGAGAGAGGAACCAACAAGAAGGAGATAAAAAAAA AAGGGAGAGACAGACAAAAAAAGGAGGAAGAACCGGGACAAA GAAAGGAAGGAGAGAAGGGGAAAAAAGGAGGGAAAACABAAG $A C G G G G G A G G A A G G G A C C A C A A G G G G G G A A C C A A A A G B A A A A$ GAACAAAAAAAAGGGAAGATCCAGAGAACCCATAA GAGGGGG A G G G A A A A G G G G A G G G G A G G A G G G G G A A A A A A A A G G A G G G A G GAAGCCAGAGAGAGAGGGCAAGAACCGGGAGGAAAGGGAGAC GAAAGGGAAAAAGAACACAGAGGAAGAAAAGAAGAAAAGGAA
 GAAGGGAAGGAAAGAAAAAGGGAAGGCCGGAAAAA GGGGGGG GAGGGGGGAAGGACAAAGAGCACAAAAAAAGGAAA GAA G A A A A A A A G G GAAGCCGAGGAGGGGAAAACCCAAGGGGAAGGGGAACCGG A GAAAAGGGAAAAGGGAAAAAAGGGGAAGGGACCAGAGAGCC AAAACCCCCCAAGGAAAAGGAAGGCAGAAAGAGGAGGAAGAG G GCCAA GAGGCAAGGGAACCCCAGGGAAACGGAGGGAGAAAA C CAAACAGGGAAAAAAGGGGAAAGAGAAAGGAGGTTAAAAAG G GAGGGAGACGAGGGGACGGAGGGACGGGGGGGAA$G A A A A A G G$
 A GAGAGAGAAGGGGAGGAGAGAAAGAGGAAGGAAGGGGAAGA A A GAGAGAAAAGGGGGAAGGAAAAAACCGGGAGAGGAGGGGG
 GACCGGAAGAAAAACGAGAAGGAAGGAGAGCCGGGCGAAGAG GAAGAGAAAAGAAGGACCAAAGGGGGGGCCGACGGAACAACC AAAAGAAAAAAAGAAGGGGGCCACGGAAAGGAGGACAAAGAG A G G A G A A A G G A A G G G A GA $\mathcal{A} G G G G G A A G A A G A A A G A A A A G G A A$ C CAA $A \operatorname{G} G \mathrm{G} A A A \operatorname{A} A \mathrm{~A} A \mathrm{~A} A A G G A A A G G G G G A G A G G A A A C A G A G G$ AAACGGAAAGAGGGGGAAAGCCGGGGAAGAGAAAGGAAGAAA G G A A A A C C G G G A A A G G G G C C A A G G G GA GAGGGAGGGAA GAA A G GAGGGCCTTGGCCCCGGCCGAAAGGGGGAAAGGAGGGGGGG G G G G G A A A A G G G G G GAA $A \operatorname{A} A A A G A A A A G G G G A A C C A G G G A G A A$ AAGGCCGGAGAAGGAAAAAAGGGGGGCCCCAAGGGAAAAAGB GAGGAAGGCCAAGGGAGAGGGGAGGGAAAGGGGGGAAGAGAA GAAACAACAAAGGGGGGGAAGAGGGGCCACAAGAAAAAATGG G G GACCAAGGAGGAAGCAGAAGGAAGAAGGAACCGGAAAAAG G G G G G G G G G G G A GA GAA A A A A CAA G G G GA GAA G GTTGGTTAA G G A A A G A A G G G A G G G G A G A A G G G A A G A G A A A A G A G G A A A G G A
 A A A A A A G G A A G G G G GAGGGGGGGGCCGAGCAAGGATAAACAA C C G GAA A G G G G A A A A A A A C C G G G GAAA A A A A G GA G G G G G G A A G A GACAACCCCAAAAGGGGAGCCCCACAAGGCCCAAAGGGGGG G G G G A A C C G G A A A A A A A A A GACCC G GAACAGAA G GAGGCCCC GAGAAAAAGGACGGGGAAAAGAAGAGGGGAGAACAGAGAACA A GAGAAGGAGGACCGGCCTAGGACAACAGGAGAAAGAGAAAG $G G C C G A A G G G A G A A A A G G A A A A G G A G G A G G A A G A A A A A A A A A$ AAAGGGAAAGGGCCCCAAACAAAAAAGAAGAGAAACGGAGGG G G G G G GAGACAAGGGGGGGGGGAAAAGGGAAAGAAAGAAAGA
 $G G C C G G A A C A G A G G A A G G C A G A A G A A G A C C A G A G G A G G C C A A$ AAGGGGCCGGCCACCCGAAAAAAAGACCGGGAAACCAAGGCC
 GAGAAAAACCAAGGAGGGGGGGCCAAGAACAAGGBAAAGGAG A GAA A A A G G GATGGGGAGAAGAGAGGAAAAAAAACCGAAAGA A A G G G G G G G G G GAA $A \operatorname{G} G A A A A C C A A G G C A A A C C A A A A G A G G G G$ C C C C C C A G A A G A GAGGGGCCAA GGGGAACCAGAAAA G GAAGA G G G G G A A A A C G G A G A G G G A G G G C C T A A G A GA G G A G G G G C C G A G GAGAGAAAAGGAGAGAAAGAGGGGGACGGAAAAGGGGAGGG

A A G G G G A A A G G G G G G A A A G G GAGGCCCCAGGAGGAGAAGAAA
 AA G GAAGGCCGGGGAAAGCCGAAAGGGAGAAAACGGCAGAAG CAATAAAAAGCCGGGGAAAAAACAGGGGAGAGGAGAAACCAA A GAAAACCGAGACCAGAGGAGACCGGAAAGGAGGAAGGGAAA A G G G A A A A A G A GAA A A G G G G G G G G A A A A A A G G T T A GA GAA A A A GCGGGAGGAAAGGAAGGAAGGAAAAGGGAACAAGGAAGGCC AAAACCAGGGAAGAAAAGCAAAAAGGATCCGACCCCGAAGCBG AGCCCCAGGAGGAACCAGCAAAGGAAGGAAGGGAGGAAGAAA GGCCAGAGAGGGGGGGGGAGGGAAAGCACCAACAGGAAAGAA G GAGAACAACGAAAGGCGGGGAGGAACCGAGGACTTGAAAAA
 A A A A G GAA $A \operatorname{G}$ GAAAAAGACAGAGGGAGGGGAGAACACAAGGAA C CAGCAAGAAAGGAGGGACAAACACAGAAGGGGAAGAACCAB GAGGAGGAAGCCGGGAAGAAGAAGCCAAGAGGCCCAAGGGAG AA $A G C A G G G G G G G A A G G G C C A A A A A A G G A A G A G A A A G G A A G A$
 A A A C GAGGGGAGAAAGAAAGCAAAAAAAAGGGGGGGGGGGGG GGGGCCAAAACCGGCCAAGAAAGGAAAAAAGGGGGGAAAGGA A GAGACGAGGGGACGGACCCAAACAGACGGACGAGAAAGGAG GAAGAGAAAGGAAGAAGAAAACGGGGAGAGACGATTGGGGCC A A G GAGGAACGGGGAAGGAAGGCCAGCCACCCCAGGAGCCCC

 A A G G G GAA $A$ A $A \operatorname{AAA} A A G A G A G G A A G A A A A A G A A A A G G G G A G A G$ G GCA G GAA G GCCCAACAAAGCGTAAAGGAAAAAAGEAAGGGG AAGGGAGGACAGCCAAGGAGAGAGGGGGAAAAGGGGAAAAAA GGCACCGGAAAAAGAAAAGGAAGAGCGGAAGGAGGAGAAAAG GAAAAA AAGGAAAAAAGAAGAAAAGGAGGGTTCGGGAACAAA G GAGCCAAAAAAAAAAGAAGAAAAGAAAGGACAGAACCGGAC A A A A A A A A A A G G G G A A GAGGAAACGGAAACAGAAGGGACGTT A G G GAAA A A A G G GAACAGAGGGAGGACCAAGGGGGGGGAGAA G G G G G GA G A G A C T A GATTAAGAGAGGCCGGAAGGAACCGGAA
 GAGGGGAAGAAAAAGAAAAGAGCAGGAGGAAGGGGGAAAAAA G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGCCAGGAAGAGGA G G GACCACGGCCGGAAGGAAGGAAGAAGGGGGAAAGGAAAAA AAAAGGCCAAGGCCAAGAAAGGAAGGAAACAGGAGACGCAGA
 $A G A A G G A G A G G G G G G G C C G G A G G G A G G A A G C A A G G A G$
GAAGGACGGAAGGGAGGGGAGGGAGGGAGAACCGGAACAGG A A A G ACGGGGGGGGACGGAAAAAGAAGGCCGGAAAAAAAAGG AAAACAGAATGGGGGGAAGGGGAGAAGAAGCCAAAAAAGGAA G GACGAAAAAGAAGCCAATTAGAACCAAGGGGAAAGAAAAGG A A G G GACCGGAAAGACAAAAAAGAAAAAAGGGGGGAAAAAAA A G G G A A G G C C A A A A A A G G G G A G G A G G G G A A G G G G G G G G C C C A
 G G G G G GCC GAAACCGAAAAAACAAGAAACACCGGGAAGAAAA G GCCAATXGGGGGGAAAGCCGGAAAGGGCCAAGGAGAAAGAG ACGACGCAAGAGGAAAAAAGGGGGAAGGAAAAGGAACCBAAA G G G GAAAGCACCGACCGGAAGAGAGAGGAAAAGAGAAGAGAA AA $A G A A G G C C G G G G C C A A G G A A G G G G C C G G A A G G G A A A A A A G$
 G $G$ TA $A G A G A A G G A A G G G G G A G A G A G G G A C G A A G G G G G G G G G G$ GAGGGAGAGGGAGGAAGGGGGGAAAAAGAAAGAAGAAAAAGG C CAA AGGAGGCAAGGGAAAAGAGAGGAACCAAAGAGGGAGAA G G G G A A C A GAA $A \operatorname{GGG} \operatorname{G} A A G A G G G C A A G C C A G C A G G A G A A A G G G$ A GCA C G G G G GAA A G GATGGCCAAGGAAAAAAAAGGAAGGAAAA G G G GAAAACCGGGAGGAAGGAGAAGGCCGGAGAGGGGGACAG

G G G G G G G G G G A GAGGGGAGGAGAAAAAACCCCAAGGGAAGGG G G TAAA A G GA GAGGAGCCGGAAGGAAGGAAAAAAGGGGBGAA AAGGCCGGAAGGAAAAAAAAAAGGAACCGAGGGACCCCAGCC $C \subset G G A A A A A A G G A A G G G G G G A G G G A G G G A G G G A G A G G A A G A A$ A G GAACAGAGGAGGGAGGAAGAGGAAGGGACCGGGGAAAAAA A A G G A A G G G G G A A A GAA A G G G GAGGGGGAAAGAC GAAAAA GA G G GAAACCGGCCAAAAGGGAAGGGGGAAGAAAAGGGAGAGAG AAGAGGGGAGGGAAAACAAGGGGGCCGGGGAAAAAAAACCAA A A A A G GCCAC G GAAAGTTAAACGGCAAGGGGGAAGAAGCAAA AGCCGGAAAAGGGGCCAAAAGGAAGGGGAAGGAAGAGGAAAA AAAAGGCCAAGAGGAGAGGAAGGGAAAACCAGAGAAAAGAGG A G T A G A G G G G G G G G A A G G C G A C A A GAAAAA A G G GCCAAAAAA C C G GAACCCCCCGGAGGGAAGGAAGGGGAAAAGGAGGGCCCC A G G G A A G G G G G G G GAAA A G GAGAAAAAAAACAAGAGAAAAA G G
 G GAGCACAAAGGGAAAGACCCGCCGGAAAGACAAGGCCAAGAG A A A C G G G G A A A A A A A GAGGGGGGAGGAAGGGGGA GAAA G GAA AAAAGGGGCCCCGGGCAAATGAGGAAGAGACCAAAAAACCAA GAGGAAGAAGCCAGAGAAAGGAAGAAAAGAGAAGGAAAAGGG A A A A G G A A C CAACCGGAC GAGGGAAAGGGGGGAAGGATGGCC AAGGGAAGCCTTCCGGCCAAGGGGGGGGGAGGAAGGGGAGGG G GCCGGAGCCAAGGAAAACCAAGGGGAGCCAAAAGGAGAAGG C C G G G A A A A A G GAC GA GAGGAAGGAAAAAACCAAAAAAGGCC GAGGAAGGCCAACAAGAGAAAAAACCAAAGGGGGAAAGAGAG G G G GC C G G A A G G G G A A GAA A A A G GAGAAAAACGGAGAA GACA GAAGGGAAAAAGGGAACAGGGGGGCCGAAGGAAAGAGGACGG C C G G G G G G A C A GAA A G G GACGAAAAGGGGGCCACAAAGACAA
 A G G GAGAAAACCCCAAGGAACAAAAAGAAAAAGAACAGGGGG AAGGGGAAAAGGCCGAAGGGAAACAGACAAGAAAAGAGAAAG A A A G G A A G A A G G G G A ACCGGAACCCCAAGGGAGACCAAAGAA AGCCGGAAGAGGGGGGAAAGAGAGCCAGGGAAGAAGACGAAA A GCCGAGACAAGGGAAAAAAAAAAAGAGGAAGGAATAGAGAA A C G A T T G G A A C C A A A A G G G G G A A A G G G G G A G G C A A G A G G G G G G GAA A GAAAAAACCGGGGAAAAGGAAAAGGAAAGAAACBGCC A A A A A A G G A A A A G G A A GAGGGAGAAGAGCCAAGGGGCCAAAA AAAAGGGGGGGGGGCCAAAAAAAACCGGAACGCAAAAGAAGB AAAGGGAGAAGGAGAAAGAAGAAACCGAAGCAGGGAGACCAC GAGAGAGAAAGGGGGAAACCAAGAAAAAGGAAAGAACAACAA GAGAAAGGCAGGGGGAGAAACCAAAGGGAAGAGGCCAAGGGG AGCGCCGGGCGCACAAACAGCCGGCGGGAGAAAAACAAGGAA AC GAGAGGAACCGGGGAAAAGAAAGGAAAGGGGGAAAAAAGE GACCGGGAAAAAAAAAAAGAGAAAGGAGACGGGGCCCCCCGG A A G G A A A A G G G G G G G G G A G A A GAGAAGGATCCGGAGCCACAA A G A A A G G G A GCAGAAAGGAGAAAGGAGAAAGGAAGAAAAGAG
 A GAAAAAAGGAACCGGGGAAGGAAGGCCAAGACCGGAAAAGG AAAAAAAAAAGACAAAAAGGCAACCCGAGGGAAAGGAAAAAA G GAA $A \operatorname{GAA} A G A A A A G G G G A A A A A A C C C C G G A A G G C C G A A A G G$ A A G G G G A A A A A A A A A A A A G G G G A A A GAAGGAGGGA GAAAA GA A G G G A A G G G GCACCCAGGGAAACCAAGGGGGAAGBACAGGGG A G G G G GACTTAGGAGGCAGGGAAAGACAAAACGGAGAA GAGA A A A A G G G G A A G G A A GAA A A A GAAAGGCCAAGGGGCAA GAAAC GAGGGGCCGAGGAAGGAAAACCGGCCGGGGGGGAAAAAAACC C C A G G G G G A G A A G G A G A A G G G G G GCCCCAAGGAGCCGGAA GA GACCAACCGGGAGAGAAGAGAAGACAGAGAAACCAAAAAAGBG A G GAA A G A A A C G G GAGGGAAAAGGAGGGGGACGAGAACAA GA A A G G A A A A G GCCAA $\mathcal{A} G \operatorname{A} A \mathrm{~A} G \mathrm{G} A A A A A T A A A G G G G G G A C A G G A A A$ AAGGGAAAAAGGAGGGAACCGGGGAAGGGGCAAAAAGGAAGA

GGCCAAGAAGCCGGGGGAGAAGAGAAGAGGAAAACCAAAGAG AAACAGAGAGGAAAAGAAGGGAAAAAAACACAAGAACAAGAA A A G G G G G GCCGGGACCGGAATTAGCCGGGAAAAAAAGGAGAA GC G GACAGGAGGGGGGGGGGGGAAGAGGAGGGCCAAGGAGCC AAAACCAAAAAACCCAAGAGGAAGAAAGGAAGCCCCGAGAAA A G G A G G A A G G G G A A G G A A C C G G A A G G T T A A G G C C G G G G A G C C GAGGAAGGAAAAGGAAGGGGGAGAGACAAGAGCAGBAACCCC AACCGGAACCGGTTTTGGATACAGAAAATACCCAAAGGAAAA A GCCGGAAAGAAAAGGCCAAAAAAAGAGCCAAAAGAAAGGGG G GAAAAAAAAAAGGGGGGAAGGAGAGGACCCGAGGGCAAAGG A A GAA A ACCCCAAGGAGGAAGGGACCAAAAAGAAACGGGGGA A A G G GAGGAGGAAGAAGACACAAAAGAGAAGGGAGGGAAGAG G GAAAAAAGGGGGACACCACAGGAGAACGAACACGGAAGGAA A GAGGCAGGGAGCAGGAACCCCAGGGAGCCGGCAAACCGGGA A A A G A A G GAGGGAAGGCAGGGAGGCAGAGGAAGAACGGAGAA AAGGCCAAAACCGGGGGAGGCAGGGGAGACAAGAGGACAAGA G G G A A A A A G G A A A A A A A A A A A GAGAA GAA GAAAA G GAA G G G G
 AAAAAAAAAAGGACAGACGGGAGAAAAAGGGGAAGGGGCCAG A A A A A GAA A GCAAAAACCAGTAGGAAAAGGGGGGAGAGAGAG $A G G G G A G G A G A A G G G G A A G G G G A A G G G A G G A G G G G G G A G A G A$ A GAA A CAACCAAGGAAGGGAGGGGAAGGGAGGAGAGGAGGAG A T GAGGCCGGGAGGAAAGAGAGAAGAAAGGAAGACCGGGGAG A A A A G ACCCCGGACGGAGAAGAGGGGGGAGGACCGAAAAAA G
 A GAAAAAAAGGGGAACGGCCGGAAGGAAGGGAGGGAAGAGGG GAAAGGGAGAGGGGAGGGGAAAGGAAGGGAAGAAAGAAAGGG G G G G A A A A A A G GAA A A GAGAGAGAGGGGAGGGGGAAAAAGAA G G A A C C G G GA G G G G A A A A G G C A G G G G G G C C G G G G G G A A A A G G $G G A A A A A A A A A C G G A A G G G G A A A G C C G G A A A A G G A A A A A A A A$
 T TAA A GAAGGAAGAAGGAGGGGAAAGGGAGAAGGGACCAAGA G GAAGGCCCCGACCAAGGCCGGGGGGCCGGAAGGGGCCAGAA A A GA $\operatorname{A} A A A A A G G A G A A C C G G G A A G G G A G G G A A G G A A G A A A G G$ A A GAACAAGGACAGAAGGGAAAAAAAAAAGAGCAGGGGAGAA G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGGGCCGGGGGG AAGGGGAAAAAAGGAAGGGAAGAAGGCCAGGGAAGAACAAGG G GAACCAAGGGGGGACAGGACCAAAGAAGGGGGGAAGGAGAA A A A A G A G A A G G G G G G G G G C G A G G G A G G A G G A G A A A A G A A A C A A G G G G A A A A A G G G G A A G GAA A A G GAACCCCAAGAAGG
GACAGGGAAAAGGAAAAAAGGAAGGAAGGGGGAGGAAAAGG AA G GCAAAAAAAGGAGAGAAAAGGGGCAAAACGGGBAAAAAA A A C C G GCCAGGGGGGGGGGGCGGAAAACAAAAAGTAGACAGG A G GAGACCAGAGAAAACCAACCAAAGGAACGGAAAAAGAGAT G G A A A A A A GAGGGGGGCCAAGAAGAGGACGGGCABACBAACC G GAA $A \operatorname{GA} \mathrm{~A}$ GAACCAAAGGAAGGAAAACGAAGAAGAACGAAGAG GATAGGGAAAGGGGGGACAAGGGAGGGAAAGGAAAGAAAGGA G GAGGAAACAAGGACCACCCGGAAGGACGGGAAAAGGGAGAA A A A A A A A GAGGGTAAAGGAAACGGAAAAAAAAGGGGGAAAAG A C A A A A A A T T G GCCAGAAA $\mathcal{C} A A A G G G A C A A A G G G G G G B A A C G A$ GAGGGGACAGAGGGGGGAGGCAAGAAAAGAGGAAGGAACAAA A A GAGGAGGGAAGGCACAGGAAAAGGGGGGGGAGAAAAAAAG $G G A A A C C C G A C C G A A A A A A A G G A C G A A G G G A G C C A A G A G A A G$ AGGAAAGGAAACAGGGAGAAAAGGGGAAGGAGAACCGAAAAA G GCAAAAATTACAGAGGGAAAGGAAGGGAGGAAGAGCAAAGA A A A A G G G G G G A A G G A A G GCCGAAAAAGAGGAGAACCAAAAAG $G G A C A A A G A A A G A A G G A A G G A G G G A A A A G A A A A C A A A A A G G G$ A A G G GAGAAAGAGGAGAGCCGAGGAAGGAACAAGAAAGAAGC GAGGGGGGAGCCAAAAGGGGAAAAAACCGAGGGAAAGGACCC

CAGAAAAAGGAAGGACCAAGAAGGAGAAGAAGGAAGGGGGCC G GAACCCCAACAAGGGAGAAGAGGGGAAAGTAGGAAGGAAGG G G G G A G A A A A A A G G A A A A A C C C G GAGGGGGGGGGAAAAAACC AAAAGAGGGGAAGGAAGAGGAGGAAAAAAGGGAAGGAACCGG AAA A A G G G CAG GAGGGAAGGAGGGCAGGAAGGGAGGGGGGGG G GACGAGGAGAAAACCAAAAAAGAGGAAGGGGGGGGGGAAAA A GCCGGAAGAAAAAAGGAGAAGGAAGAAAAACACBAAGAAAA A A A G A G G A A G G A G A GAGGGGAGAGGACCACACGAAGACAGAA G GAA $A \operatorname{GAAAAACCCAAGAAGGAAAAAAGAGAAAGGGGGGGGGG}$ GAAGAAACAGAAGGAGAAGACCAGAAAAAAGGACGGCACC GA A GCAGGGGAAGGGGGAGAGAGGAGACCCAAAAGGGGGATACC GACCGGCCAGAGGGAGAAGAGGCCAAGGAAAGCCGGCGAACC
 A A G G G G A G A G A G A C A A $\mathcal{A} G G G G G A G G G G G A A G A G A C C G G T X A A$ A G G G A A A A A A G G G G C C G GAGCCAGGGGGCAGGCAGGACAAAG G G GAA A AC G G GAGGAAGGGGGAGACACAGGCAGAGGCAAAAG ACAGCCAGAAAAAGAGAGGGAGAGAAAGGAGGAGAGGAAACC A G G G A A G A A G A G A A C A G GAACCCCAAGGAAGGGAAGGGGGCA $C C G G A A A A G G A A G A G G A G A G C A A G G G G A C A G G C C G G G G A G G G$ C C A G A G G A G G G G G G A G A C G G G A A A G G G G C C A A G GA G G A A G A A A A A A A A A A A G A GAGGAGGGGAAGGAGGGGGGGAAGAGACAAA G G GAGGCCCCCCGGGGACAAAAGGGGAAAAAAGGGGGAGGGG GACCAAAAACAAAGAAAAAGCCGGAAAGAGAGAGGAGGAAGAG G G G A A GCCAA G GAAAA TA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} A A A A A A G G G G A G A G A A G A A A$ G G G G A A A G G A G G G A A G A A A A A G A G G G G A G G G G G G C A A A G A A A G G A A G G A A G A G G G G G G G G G G C C G G G G G G G G A A G G G G A A G G A A GAGGGGAAGAAAGGAGAAGGAGAAGGAAAAGGGGCAAAAGAA GAGGGAGGGAGCGGGGGAGGGAAGAGAAAGAAAGGAAAAGAC C C C G A G A G G G A A A C G A C C G G G A G G G A G A A T G G G A G G A G G G A A GAGGGAGACCGGGGCCGAGGAGAAAACCAACAGGGGBACGCA A A G A A GACGGGGAGACGGAAAAGGGACAGGGAGGAGAAAA GA G GAGGGCCAAAGCGGGAGAAAAAACCGGAAGGAAGGGGGGGA GAGGAGAAGGCCAAAAGGAGCCGGGGAAATGAGACCAAGGBA GAGGACAGCCAAGGAACAACGGGGAAAAGGAAAAGAAGAAAG AC G A G A C C A A G GA G A G A A GAGACAGGGAAAGAAAGGCCCCCC A A C C C A G G A A A G G A A A GAGGGGAGCCCCCCGGAAGAA GAAA G GAGGGGAAAGCAAAGGGGGGCCAAGGAAAGCCGGAACAAGAG G G G A G G G G G GAGGGCCGGGGGGAACCAAAGACGGGGGGCCGG
 G G A A A A C C A A G G G A A A A A A CA $A \operatorname{GGGGGGACCGACAAGAAGGGG}$ $G G G A G G A A G G G A G G C C G A A G G G G G G G A A A A A A A G G G A A G G A A$ G G G A A A G A A G G G A A G G G A G G A C A A A G A G C C A A G G G G G G A A G G A A G A A A A GAAAAGAAAGAACGGCCGGAGAAAAAAAAAAAGGG G A G G G G T T G G G G G G G G G G G G G G A A G A A A G G A A G G A G A C A A A A G GAGAGGGGGGGCCAAAAGGAAGGAAGGGGGGAAAAGGAAAA A A A A G G G G G G A A G G A A $\mathcal{A} G A A A A A A A A A A A G G G G G G G G G G A A G G$ A A A A A A G G G G G G A A A A A A A A A A A G G G G A A A A G G A A A A G G G G G G G G G GAAAAAAAAGGGGAAAAAAAAAAAAAAGGGGAAAAGGGG G G G G A A A A A A G G G G G G G G G GCCCCCC CAAGGGGGGGGAACAAA
 A A G GAA A GAA $A \operatorname{A} G A A A A G G A A A A C C A A A A A A A A G G A A G G G G C C$ A A A A A A A A G G A A A A A A GGGGGGAAAAGGAAAAAAGAAA G GAAA G G A A A A A A $\mathcal{A} G G G G G G G A A A A A A G G G G G G G G A A A A A A C C A A A A$ AAGGAAGGGGCCGGGGAAGGGGAAAAGGGGAACCGGAACCGG A G A A A A G G A A G G G G A A G G G GAAAAAAACCAAAAAAAA A A A G G G G A G G GCCAGGAGAAGGGAAAAGGGAAGAGGGAGAGACCAGGBA A GAGGAGGACAGGGAAAAGGAAGAGAAGAAGGACGAGGAAGAG
 G G G GAAAAGGCCGGCCGGCCAAAAGGAAAAAAAAAAGGAGAA

ACGAAGAGCAGAAACCAGGGACAGAAAAAAAGCCAGAAGAAG CAGGGGGAACAGGGGGGGGGAAACAGAGGGGACCCCCAAGAG AAAAGGGGAAAAAAAAAAGGAAGGGGAAGGAAGGGGGAAAGA G G G GAAAAAAGGGGAAAAAAGGGGAAAACCCCGGAAGGAACA AAGGAAGGAAAAGGGGGGCCAAAAGGGGAAAAAAAACCAAAA A A A A A A G G G G T T G G G G A A G GAAAAAAGGGGAAAACCGGCCCC

 A A A A G G G G G G G G G G G G A A A A A A A A A A A A A A G GAAAA G G G G A A G GAAGGCCGGAAAAGGCCGGGGAAAAGGGGAAAACCGGGGAA G G G G G G G G G G G GAA $A \operatorname{G} A A A A A T T G G G G A A G G A A G G G G G A A A A A$ G G A A A A A A G G A A A A C C G GA A A A G G A A G G G GAAAA A CAA A G G G G G G G A G A A A G G G C C A G G G G A A A G G GAAAAAGGGGGA GAAAA G G AAAACGAGAGAGACAGCCGAGAGGGACAACAGGAACACGGGG AACAAAGAGGAGAAAAAAAAAAGGAGAGGAGAGGAAAAGGGA G G G G G G G G A A G G G GAAAA $A \operatorname{A} G C C G G A A G G A A A A G A A G A G A G G G$
 AACCACACGGACAAAGGAAAAAGGCCCAATAGGGGAAGAAGG CAGGGAAGGGGGGAACGGAAAGAGGAGGGGAAAAGGGGAAAA G GAAGGCCAAGGAAAAGGAAAAAAGGAAAAGAGGAAGAGGAA AAGGGAGAAAAAGGGAGACAAACCCCCCCCAACCAAAAGGGG
 A A G G G G A A C C C C G G G G G G A A A A G G G G A G T T G G A A CAA G GA G A A GAGAAACAGGGAAGGAACAGGAAGGCCGGGGAGAAAGGGGG GGAGCCCCGGCCAACCAGAAAAAAGGAAGGAAGAGEACAGAG AAAAGGGGAAAAGGAAAAAAGGGGGGCAGGAAAGAAAAAAAA AA $A$ A $\operatorname{A} A A C G G G G A A A A G G G G A A A G C C A G A A G G G A A G A G A G G A$ A A G G A A G G G G G G A A A A A $\mathcal{A} A G G G A A G A G A A G G G C C A A G G G G G G$ GAAAGGAAAGAAAGAACAAAGAGGGAAAGCGCGAAGCCAAGG GGCAAAGGCAAAAAGAGGGGCAAAGACACCAGGGGGGGGGGG A A A A G GAA A G G G G A A A G G G G A A A A G G G G A G G G A G A C A G G A G G G GAAGGGGAAGGCAGGAGGAGGAGAGGGACCCAAGAGAGGGG
 A GAGAAGCCCAAGGGGAGGAGAAGCAAGAAAGAAAAAGAAAG AC G GCAGGAGGGAACCGGGGCCAAAAAGCCCCAAACAAACAA A A A A G G G A A A A A A A GAGGCCGGAAGAAAAAGGAAAAGGAAAA AAACCCGGCCAAGACAAAAAGGAGACAGGAGAGGGGTTGGGG AAAGAACCGAAGGGAGGGAACAAGGAGAACGAAGAAGGCCGG G G A A A GAA $A \operatorname{GGG} G \subset A A A A G A G A A A C G G A A A A C C A A A G G G A A C A$ $A G A G A C A G G G A A A A G A G G A C A G G G A A G G A A G A G G A A C$
AGAAAGGGGAGCCCAGGAACCAAAGAGAAGGAAAGGGAAAG G GACAGCCAAACGGAAACACCCGGGAGGAAGGGGAACAAAGB AAAAAGAGGAAAAAAGGGCCGGTTAGGGGAGGGGAGAGACGG G G A G T T G G A A A A A A A GAGCACAAACCGGCAGGGGAAGA G GAA G G G G G G A G T T A A A A A A A A G G G G A A G G A G G G G G A G A A G A A A G G A G G GCCGGAGGGGAAAAGTTAGAAAGCCAGCCAAAAGGGGAG A A G G C C G G C C A A A A A A A A G G G G G G G A A G G G G G G G A A G G G A G A
 G GAA A G G A A G G GAGAGGAAGGGGGCCGGAGAAAAAAGAAGAA GAGAGACCAAGAAAGGGGAAAAGGCAAAAAAACCAAGGAAAG G G A A G C G G A G C A G G G G A G A A A A G G G A A A G G A A A A G G G G A G A G GAGAAAGAAGAAAAAATTGGGGGGGGGGAGGACAGBAGGGGG ATACAA $\operatorname{T} A \mathrm{~A}$ GAGGGAACAGAACCGGGGGGCCGGAAAGGGCCGG CAGGGGAAAAGGGGAAAAAAGGCCGGAAGGCAGAGGAACCGG GACGCAGGAAAAAAGAAGGGGGGAGGAGAAAAAAAAAAAACC GAGGCCAAGGGGGGGGCCAGGGAAAAAAAATTAGAGGGAGAA G GCC C G G G G G G GAA $A \operatorname{GGG} G A A G A A G G G G G A G G G A A A A A A G G A A$ C CAGAAAAAACCGGGGAGGGAAGGGGAGCAGAGGAGAGAAAT $C G A A C C G A G A A C G A G A A A G G A G A G A A A A C C A A A G A G G G G G G A$

C CAAAGGGGGGGAAAGCCGGCAAGAGGACGGGCCAAGGCCAG C C GCGGGGGGAAAGGGAAGACCAAAGGAGGGGGGGAGGACGG AAAACAGGGGAAAAGAACAAGCAAGCGAGAGAGAAGCCAAGAG AACGAGGGAGAAACAACCAAAGTAGGCCACCCAAGGAAAAAC G G G G GAGGGGGGCCGGCCACAAGAACGGAAAGACAAGAGAGG A A G GAGGGAAGAACAAACGAAGTTAAAGAGAAGAAAGAACAA G GAA A A G G G GCCCCAGGGCCAAGAAGGAGGAGGGCACCCAAA $A G A A G G G G A G G G A G G A G G A A A A C C G G G G G G A G G G G G A A A G G A$ A A G G C A A A A A G G A A G G G A G G A A C C A A G G A A A A A A A A A A G G A A AAAAAACCGGAAGGAAGGAACGCAGAAGGAAAGAGAAAAAAA GAGAGAAATTCAGGGAGAGAAAGAAGGAGGAGAAAATTGGAG GAAAGGGGAAAAAGGGGAAACAAACCAAGCAAACCCAAAGAG A A A A G G G GCCTTGGGGGACAGAAGAGCCCAAGAAAAGAAAAC A A G A A A A A A A C CAA A A A A G GAAAA GAA G GACAC GAA G G G G G A GAGAAGCCAAGGAAACGAAACCCCGAGGAAAAAGGGGACABA G G G GAAAGAAGGGAAAGGAACCAAAAAAAAGGGGGGAGAGGG C C G G G GAACAGGGGAAAAAGGAAAGGAAAACCGACCGAAGGG G GAAGGCCGGAAAGAGGCAGAAGAGAAAAGGAGAGGCACCBG AAAAAAAGCCGAAGGGAGAAGGACGGGGAAGAAGAACCBGAA A G G G A C G A G G G G G G A G A A A A A A A A GAAGCCCCAAA GAGAAAA G G G GAGAACCAAAAAAAAAGGGGGAAACGGCCCAAAGGGAGA A A GAAA A A G GAAAAAAAACCGGGGGGGGAGAGGGCAAAAAAA
 G G A A A A C C A G C A G G A G A G C C G G A G G G G A G G GA G G G G G G G G G G AAAAGGAGCCAGGGAGAAGAGGAAAACCAAGGGGAAAAAAAA A GAGGAGGGAGGAAAAGAAGAAAGAAGGACACGAGGAAAAAA AGAACCGGAGAAAAGAGAGAGAGGGAAAACGACAAAGGAAAA G GAAAAAGGAGGAGAACCAGAAAAAAAGGGGAAAAAAGAAAA CAAACCAGGGAAGGAAGGAGGCGGAGGAGGAAAAGAGAAAGA G GAAAAAGACGAAAGGAGAGAACCGGCCGGGGAAAGAAAAGA A A A G G A A G A A G A G G A A A GAGAGAC GAGGAAGGCCAAAGAGCC G GAGGGGGAGGAGAGAGAAAGGGGCCGAGAGGGACCAGAGGA CAA $A$ A A G G G G A A G G GCAGGGGACGGACCCCAAAAAAAAAGGG $A C G G G A A G C A G G A G A C G G C C G G G G G G A A G A G A G G A G G G A G G G$ A G G A A GAA A A G G G G G G A GCCACAGGACAGGGAACAAGAAAAA CAGGACAGATGACCAAAAAAACACAACCGGAAGGAACCAGAG G GAGAA $A \operatorname{AA} A G G C C G G A G G A G A G G G G A A G G A A C C G G A A G G G G$ G GAAAAGGAAAACCAAGGCCGGGAGGAAAAGGGGGAGACCAA A G G G C A G A G G A A A A GAA A A A A A A A A A A $\mathcal{A} G G G G G G G G G G G G A G$ A A G G A G G G A A G GA $A \operatorname{GA} A \mathrm{~A} A A A G G A A A A G A G G G A G G G G A A G A A G$ GAGACAGGAAAGAAGGCCCCGAAGAAAGCCAAAAAAAAGGCC G G G A G A A A GAA A G G C C G A A A A C G G A A G G G G G GACAA G G C A C C AGGGAGCCGGAAGGAGGGGAAGCCAAAAAGGGGGAGAAAGAG A GAAA A A A A GACGAAAGGCAAAAAAAGGGGAGCAAAACAAAC G G G A A G A G A A A A G A A G G A G G T T G A CAGGAGAGGAC CAA GA G G CA A GAAAAGGAACCCCGGGGGGCCCCACGGAAAAGGAAGGAA A A A A G G A G G G G G G A A G G G A A G G A A G A GAA A A GAAAA A GAA G G G G GAAAAAACAAGCAGGAAAAACCAGGAAAGAAAAGAGCC GA AAAAGGGGGGAAGAGGGGGGAGAGCCAGAAGGAGGGCCAACAC A G G G C C A A G G A G G G G G G G G G A G G A A A A C C C C A C A A A A A A A G G A GAAAAAGAAAAAAAGGACGAAGAGGGGAACCGGGAAAAAGG $A A C C G G C C G G C C C C G G G G G G G G A G A A G G G G G G G G G G G A A G A C$ G G G G A G G G A A C C G G G G A A A A A A A A A A G G G G G G A A G G A A A A A A AAAAAACAAACCGGCACAGGGGCAGGAGGGAAGGGGACAACC A GAAA A GAGAGACAAAAAAAAAGGAAGGAAACAAAGAAGGGG GA $A \operatorname{G} G A A G A G A C A A G G A G A G A G G G G G G G G G G G G G A A G A A A A A$
 A A A G G GC C A A C G A G C A G G G G A A A G A A A G G G G G G G G A A A A G C C GGAAACAGCCAAGGCCGAGGAAAGAAAAGGAAACAGGGGGGG

A GAGGGAAAGAACCCCGGGGCCAAGGGGGGAGACGGAAAAGB G G A A A A A A C C G GAA A GCCGGAGGGGGAAACGGGGAAAAAAAA AAAAAAGGAAAGCAACGGGGAAGGCCCCGGGAGATAGGGGGA G G G G G GAA A G G GAA A GAGAAGAAGAAGGGAAGAGACAAAAAA G GAGGGCCAACCAGCCCGAAAGGAGGGGGGAAGGGGGGAGAA G A A A A A C A G G A G G G G A A A A A A A G GAGAGAACCAATTGAGACC
 CAAACAAAACCAGAAAGAAGGGCCGGGAGGCCCCCCCCAGAA A A G A G G A A C C A G G A A G G G G A A A A A A G A A G G A A C C G G G G A G A A A A A A A A A A A GAGGACAAAAACCCCAAGGGGGGACGGGAAACC GAAAATGAGACCGGAAAAAAAAGAGGAAAGCCAGAGAAAACA
 G G G G G G G A A A A A G GCC G GAGACCCAAGAAGCAAAAAAGGGCA ATGGAGAAAAAGGAGGGGAAAGAGAGGGAAAACAAGAAAGGG A GAC A G G G A A A A A A G G G G G A G G G A A GAGGGGGC CAA G G G G A A A G G GAA $A \operatorname{GAAA} A A A C C G G A A G G A G G A G A G G A T A G A G G G A G A A$ AACAAGGAAGAAGGAGAGACGAAGAGGGCCACCAGEAAGAAA
 GACCACCCAAGAGGAAACGGGAGAGAGGGGGGGGGGGGAAGG G GAA $A \operatorname{GACA} A A C A G A A G G G A A G G A G G G A G G C A A A G A C C G G C C$ G GAAGGAAAAAGAGCCAGGAAAAAAAGGGAAGAGGGGAAAAC
 AC G A A G A G T A C A G G G G G G A C G G A A G A G G C C G G A C A G A G G G G G A A G G G G G G A A A C A $\mathcal{A} G G A G G G G G A G G G A A G A A A G A T T A A A C B G$ A A A G A A G G GA G GAC G G A A G G G G A GAAAAGAAGAAGAGGACAA CAGAAGGGGGGGGGGAAGGGAGCCAACCGACCGGGGACAGAA A A A A A A G G A G A A A GACGGCAGGGAGGGGCCGGAGAACAAAGA $G G C C A A A A A A A C G G A G A G A A A A A A G G G A A A G G A A G G G G G G G G$ A A G GCAGAAGAACAGGGGAAGGGGAAACGAAGGAAAAGAGAA AAAAAAGGGGGGAGAGGAGAAGAGGGGAAAGGAAAGAAAGGG A A A A A A A A A A G G G G G G A A G G A A G A GAGGGGAAGGG GA GAC CA A GAAAGAAACCCAAGGACAGGGAAGGAAGGGAAAGAGGTTGG
 A A A A A A A CCCAGAAGGAGAAAAGCCAGAAGAAGGGGGGGGGG A A G G G GAAAAAACCAGGAGAAAAACCAAAAGAACAGCCBGCA G GAA $A \operatorname{GAAAAAAGGACAGGAAGGGGGGCCGAGGGAA} \operatorname{A} A A A G G G G$ G GAGAGGAACGAAGACGGAGAACCAGAACCAGAGAAGGGGAG $C C G G G G G G G A G G A C G G A G G G G G A A A A A A A A G G G G G G A A C A A A$ A G G G G A T T A G A A A A A G A A G G G G C C A A A A A A A A A A G G G G G G G G A A A A A A G G A G G G G G G G A A A A A A G GAAAAAA A $A \operatorname{A} G G C C A$
$G C \subset A A G G A G G A A A C C A A G G A A G G A A A G G A A A C C A C A A G A A A$ GCAACCAAAAGGGGAAAACCGGGGGGAAAAAAGGAAGAAACC G GAAAAAAGGCCGGGGAACCAAGGAAAAGGAAAAGGCCAAGG $C \subset A A G G A A G G C C G G C C A A G G G G G G G G A A A A A A A A G G A A A A A A$ G G A A A A A A A A A A G G G G A A A A A A A A G G G G C C C C A G G A GA G A G A GAGATACAGGGACCAGGGAAGGCCGGAACCAAGGAGAAGAAA G G A G G A G G A A G GAA A G G A A A A G GAGAAAGAACAGAAAAAAA A GAAGACAAAAAAAGGAGAGAAGAAAAAAGGGGGGAAGGAAAA AA $\operatorname{A} G A A G G G G A A C G A G A A A A G G G A G A A A A A A G A G G A G A C A A A$ G G G G G G G G G G A A G G A A G G G G C C G A GAA A A A A A A C A A A A A G C A TAAGAAGGGGGGGGAGAACCGAGGAGAAAAGAGGAAAAAAGA GAAGAAGGGAGAGGGGAAGAAGGAGAGACACCGGAACCAAAA
 G GAGGGAGAAGGGACCCCAGGGAAAAAGGGAAGGGGGGCAAA A G G G A A A A G G G G G GAACCGGGGGGGGGGAAGGCCGAAAAAAA AAAAAAGGGGGGCCGGGGCAAGAAGGAAGGGGGAGGAGGGGA A G G A A A C C A A A A C A G G G G G G G G A A A A G G G GAAAA A G G G GAAA A
 $A C A G G A G A A G G A A A G G G G A A A A A A G G G G C A G A C C A A A G G A A A$
 G G A A A A G GCCAA $\mathcal{A} A \operatorname{A} G A G A G C C A G G G G G G G G G G G A A A A A A C C$ A A A C A G G G G G A A A G A A G G G GC C A G G G G G C C G G G G A G G G G G G G
 G GAA A G G G G G G G G GAAAACCCCGAGGGGGGGAACAACCAGGG G G GACCCCCAAAGAAGGACAGGACAAGAGGGGAAAAGGAGAA C C G G G G G G A G A A C C G G A A G A A C G A G G C C A A A A C A G G G G T T G G G G G GAGACGGGGCCAAGGAAGAGGCCAAAAAAAACCAGGGGG $G G C C A A G A A G G A G G G A G G G A G A A A A A C C G G A A A A A G A A G G G G$ GAGAGGCCGAAAGGAAGGGGAGAAAAACGGAAACAAGGAGAG A G G GA $A \subset C A A G G A A G G G G A A G G G G G G C C A A G G G G G G A A G A G G$ G G GACCCCGGGGAAGCAGGGGGGGGAAAACGAACGGAAAAGA GAGAAAACGGACACGGGGAAGGGGGGCCAGACAAAACGAGCC AACCAAAAAGAAGACCGGGGCCGAGAAACCGGAAAAACAGAA $A C A G A G G G G A G G G G A A G G G G A A G G A A G G A A A A A G G G G A G G G A$ A G G A A G G G GAGGAGAAAAGGGGGGAAAAAAAGAAAGCAAAGA G GAGAAGAGGCCAAGGCCGAAGAACCAACCAGAGAGGAGABAA CAAGGGGGAAGGAGAGGGAAGAGGGGAAGGAAAAGAAGAAGA A A A A A A A G G GACAGGGAAGGAGATAGACAGAAACAAGGAGAG A GAG $A \operatorname{AAA} A G G G G G G A A A A A G G G A G G A A A G G G G G A G A A A A A A A$ AGGGGGGGAAAGAACCGAAAGGGCCCAAGGCCAACCGAGGGG AAAGAAAGCCCAAACCGAGGAAAAGGGGAAGGAGAAGAGGAG AATTGGAAGGAAAAAAAAGGGGGGCCAAGGCCGGCAAACCGG A ACCGGGGGAGAAAGAGGGACAGAAAAGAAAAAGAGCAGGAG GACAGGGGAAGAAGCCGGAGGACCGGGGGGGGAAAAAGAAGA A GAACCCCCCAGGACCACAAGGAAAAAGAGAGGGAGAAGAGA ACAGAGAGAAGAAGACAGAACCGGGGGGAAAAGGGGAAAAAG
 $A G G G G G A G G A G G A C A A G G A A G G G G A A A G G G G G A G A A C A A G C C$ AAGGAAAGAGAAAAAGAGAAGGAGAGGAGGGAAACCGGAABAA GAAGAAGAGAAAGGCCGGAAAGGGGGAAAAAAAAAAAAAAAG G GAAAAAGAGAAGCAAAAGGAAGGAAAAGGAGGGGGGGAGGG

 G G A A G A A A A G G A A A A GAGGGAGCCGGGGAAGGAACCGGAGAA CCGGGGAACAGAGAAGAGGGAAAGAGGGGGAAAAGGAACAAA G GAGGAGGCCAGGAAAAAGGAAGGAGGAGAGGGGAGACAAAA A GAGAAAAAAAAGGAAGGGGGAAACCAAAAGGAAGAAACACAA G G G G G G G G GAACACGGCCAGCAGGAAGGAACCGGCCAGAGAG A G G G G G A C A G A A G A G G A GAA $A \operatorname{AGGAGAAGGGGGAAAGAAAAAA}$ A A G G G G G G G G G G A G C A A A A A G G G G G GAAAGGGAAAGAAAAA A G G GAAAAAAACCGGGAAGGGGAGGAAGGAGCCAAGGGGAGAG A GAAAGCCAGAGAAGAGGAAGGCCAGGAGGGAGGGAGGAGAG GAAAGAAAAGAGGGAAAGAGGAAATACCAAAAAAAAGAAGEG A G GAGGGGAGAGGAAACCCCACAAAAAAAAAAGGCCAACCBA
 AAAAACGCGAGAATAACAAGAACCAAAAGGAAGGGGGGGGGA GAGGAGAGAAGGGGACGCGGAAACGGGACAAAAGTAAAAAAA G G G GAAAGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAAGAC GAAAAGAAGGCCGGAAAAAGCCGAGGGGGGAAAGGGGGAGBA GAGGGGACAGGAGGGGGGGGGGGGGAAGCCGAAGGGCCGGGG G G G G G GAGGGCAAGCCGGAAAGAGCCAAGGGGGGCCCCACCC GAAGGCACACGGGAGGCGCCAAAAGAGAAGGGAGCAAGGGGG ACGACCGGACAAAAGGAAGGACGGAAGGGAGGGCAGAAGAAA AAGGGAGGGAACGGCCAAAAAAGAAAGAGGAAAGAAAAAGAG A A A A A A A A A C G G G GCCGGGAAAAAAAGGGGAGGGGGGGGGGG G GAGGAGGAGAACAAAGAAGACGGGGGGGGAAAAAGGAAAAA G G G G A A G A C C A A A G A G G G A A A A A G G GAGGAACG GAACC GATA $A \subset A G A G T A A A G G G A A A G G G G G G G G G G A A A A A A G A C C G A A A G G$

G G GATTXACAGAAAGAAAAGACCCCAAAAGGAGGGAGCACAAC G G GAAAACAACCAAAGAGAAGGGGTTCCGGAGAAGGCAAAAG CAAAAAACAGAGGGCCGGAGGAAACAAGAGGGGGAGAGAGCA GAACGGACAGGAAGAGACGGGGGAGGCAACGGAACAGGGAGG G G G G G G G G A A G GAGGAAGGCACGAGGGGAAAAGAA GAA GA GA A A G G G G G G A G A GAA A G A A CAGGGAAAAAAAACAAAAGGAGAA G G G A G A A A G G G G G G A T G G C C A G G G G GAA GAAAG GA GA GACC C AGCAAGCAAAGAAGGGAAAAGGCAGGAAAAGAGGGGAGAAAC G G G A G A A G A A G G A G G A A G G G C C G G G G G A T T G G G G A A C C G A G A G G GAAAAAAAGGTAACAAGAGGGGAAGGGGAAAACCGGGGAC A G G G G GATCAAAAAGGGGCCGACCAAGGAAAAAAGGCCAAAA T TAAA A G G G A A TAAACGGCCAAAAAGGGGGAGAGAAGAAAAA A A G G G G G G G G A A A A A A A A G GAAAAACCAAAGAAGGAAGGGGGA A GCC G GC GCC G G G G GACAAAGGCACCAGGAAGAGGAGBAACC G GAAAGGGAAAAGGGGGGGAGGCCGGGGGGGGGGAAGAAAGG A A A A G G G G G GCCGGAAGAAGCCGGAACCGGGGAAAAAGAGAG GA $A$ A A A $\operatorname{A} G A A G G G G G G A A G G G G A A G G G G A A G G A A A A G G G G G G$ G GAA $A \operatorname{GCCA} A A A A A A A G G G G A A G G C C A A A A A A C C B G A A G G G G$ G G A A G G G G G G A A C C G G G G G G G G G G G G G G C C A A C C A A A A A A G G A A G GCCAAAACCCGGGGGAGGGGGCCAAAAAAGGGGGGGGGG A GAGAAGGAGGGCGAACCACAAAAGGGGGGAGGGGAAAAACC A A A A A ACCGGCAGAAGGGCCGGAGGAAGGAAAGGAGGAAAGAA A GAGGACCAGAAGGAGAAAGGAGGGAAGAAAAAAAGACAGGG A A A G G A G A A C G G A A A A A G GAGAGGAGAAGGACAA G G G G GA GA G G G G GCAAAGGGGAAAGAAACCCAAGGAAGAGAAGGAGAAGAG AAACGGGACCAACAGGGAACCCGAGAGAGAGGAAAAAAAAGG A A G GAAAA A GAAAAGGGGAAGGAAGGAAGGGGAACACAAACAA A GACAA $A \operatorname{A} A G G G G A G G G A G G G G G G G G G A G A A G C C G A G A C C A A$ $A C G G C A C C A A G A A G G A G G G A G G A G A G C C A G A G G A G G G G G G C C$

 CAAGAGGGGGCCGGAAAAGGGGAAGGAGGAACAGAGGAGGAC G GAAAA AAGGAAGAAGAAGAAAAAGAGACAAAAAAACCAGAG A A G A C A G A A A G G G G G G A G A A A G G G G A A G C C G G A C A G G G A A G G G GAA A G G G A A A A G G A A G G A A A A A GACGGACAAAAGGCCGGCC $A G G A A A A A G G G G G G G A A G G A G G G G G G A A A A G G G A A A A G G G G G$ A A A A GA A G GAGGACAAAGAAGGGGAGAGGAGGAGGGGAAAAG

 A A A GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} C \subset A A A A A A A A A G G A C A G G G G G A$
AGGAGGAGACCGAAAAAGAAGAAGGGGACAACCGGAAGAAA $C \subset A C G A G G G G A A A A G G A A C A A G G G G A G G A A G G A A A A G G G G A A$ G GAA A GCCGGAAAGAAGGAGAGGGGGGGGAAAAAAAAAAGAA G G G G A G A G G G A G G G C A G G A A A A A G G G G A A A G G G G A A A A G G C A GGAAGGGGCCCCCCGAGGAAGGGGAAAGCCGGAAGAAAGAGG A A GAAA A G A A G GACAAAGGGGGAAAAAAGGAGGGAAGAAAA $A$ $A G A G G G A A G G A A G G A A G G G G G G A G G G A G G A A A G G A G A G G G G A$ C C G A GAA $A \operatorname{G} G C C A G G A A G A G A G A C G G A G G A A A G G T T G G G G A G$ GAGGGAGGGGCAACGGAAAGGGGGGAAAAGAAAAGAAAAAGG A A GACCAAGCGAGAGGGGGGGGACGGGGCCCCGGAAAGAAGG CAAGGGGAAGAGAAAGAAAAGGAGGGAAAGGA GAA G A A A G G G G G T T A G G G A A A C G G G G G A C G A G G GA A A A A $\mathcal{A} A A A G A A A G G G G G G G G G$ AC G G A A A A C A G G A A G G G G A G A A A A G G G A C C C C A A G G A G G G A G G GCCGGGGGGGGAGACAGACGGGGGAAGGGAGGAAAGGAGAA C C G G A A A A A A G GAC G GAC GACCGGAGGGAAGGAGAAAGAAGA
 G G A A A A C A A G G A A G A G G G G G G G G G A A A G G G GAGGGGCATAA A A G G G A A A A CAA ACCAAAAA GAGGGAAAACCGGGGAAGGAGAA G G G GCCAAGGAAAAAAAAGGGGAAAACCAAGGGGAACCGGCC

G GAGAGGGCCGAGGGCAAGGGGAAGGAAACGAGGGGAGAAAG G GACCAGGAGGGAAGGGGAAAGGGAGAAGGGGGGGGGAAAAA AAAAAAAAGGAGAAGGAAAAGGGGGGAACCGGAAGAGACCAA A A G GAA A GAGGGGGAAAGGGAGGAGAAGGGGGAGAAGAAAAG $G G C C A A A A G G G G A A G A A A G A G G G A G A A A A A A C A G A C A A A A G G$ A GAA $A \operatorname{GCA} A G G G G C G G C A A A G G A A A G G G A C A G A A G A G G G G G G$ A GAGACAGACGGAGCAGGGAGAAGAGGACCGAAGGCGAATAA AAAAGGGGAAAAAAAAGGAAGAGATTGAGAGGGGGGAGAACC $T \mathrm{~T} C \mathrm{C} G \mathrm{G} G A A G G G A A A G A G A A G A A A C C G G G G G G C A A G A G A A A A$ A A A A A A G G G GAAAGGGGAACAGGAAGAGAGCCAAGGGGGGAG G GAAAGGAAGAAAAAGGGAAGGGAAGAGAGGAGAGAACACAA

 CAGGAACCAAGGCAGGAAAAGGAGAACCGAAAGGCCAACCGA C C A A A A G G A A G A A A A A GAGGAGAGAAAAAAGGAAAAAGAC G G $C \subset A G G A G G A T A A A A G G A A G G A G C C C C G G A G G A A G A G A A A G A G$
 G G G GAACCAAAAGGGGAAAAAAAAGGGGAAAAAAAGAAACBG CCAAAAGGGGAACCGGAAAAACGATAAGGACAGAACGGAAGAG
 G GGGAAAAAAGAGGGCAAAAAGAAAGGAGAGAAAGGGGAAAA AAAAAACCAACCAAGGAAGGGGAAGGGGGAAAGAGGAAAAAA
 CCGAGGGACCAAGGAAAACCGGAAAAAAAACCCCGGAAAAAG A A A A A A A A GGCCAAGGGAGGAAGGAGACGGGAAAGGGGAGAA G GAA $A \operatorname{GA} A A G A G G A G G G G A G A A G A G G G G G A G G G A A G G A G G G G$ G G GAAAAAAAAGAGGGAAGGAAAGAAGACCAGGGAGAAAGAG GAACAAGGGGAAAGAAGGAAGAGAGGCCGGAAGAAACGGGCA A GAAA A GAAGCCCACCCCGAAAGGGGGGAAGAGAAGGAGGGG A A CA $\operatorname{C} G C A A G G G G G A A G G G G G G A A G G A A A A G G C C G G G G A A G G$ G G A A G G G G A A A G G A G A $\mathcal{A} A G G G G G G G G G G G G G G T T A A G G C C A C$ GGCCAAAAAGCCGAGAGGGAGGGAGAAGGAAAAAGGAAGGGA A GAGAGCGAAAAGGAAAGAGCGAGAGAGGAGGGGACGGGCGG G G G G G G A A G G G G A A G G A A C C A G A A A GAAAAAA A G G GAAAA A G A G A A G G G GCCAAAAAGAGGGCCGGAGAAAGCCGGACCCCGGG G G G G G G G G A G G GAAAAAAGGGGAGGGAAGAGGGGGAAGGAGAA G GAAACGGGAGAGGGAAGGAATCACAAAAAAGGGGGGAAAAA AAAGGAGGAAACGAGGGGAAAGAGAAAGAGCAAAATAAGGGG A G GAACAAACAAGGAAAAAAGGCCAAAACCAAAGCCACGGGG A A G G A A G G G G G A A G G G C C A G G G G G G G A A A A A A A A C C G G C C G A GAAGGGAGGAAAGGAGAGGGAAAAAAAAGGCCCAGAAAAAAG C G G A A G A A G G G G G G TAGGC CAA $A \operatorname{AGGGGGGGAGACCCCCXCAA}$ A GAGAAGAGAGGCCAAAAAAGGAATTGGGGAAGGGGAAAAAC G GCCAGAAACAGCACGGGGAGGGGGGGAAGAAAAAGGGAGGG AACCACAGGAAAAAAAAGGGAACCAAAGGGGAAAAGCCAA GA G GAGCCAGGGGAAACCGGCCAACCGGGGAAGCAAAGCAAAAG AAAAGGGGAGAAGAAGAAAAGGGGAAGGGGAAACAAAAAAAA
 G G G GAAAAGGGGGGCCGAGAAAAAGAAAAACGAAGGGAGAAA
 $A C G G G A G G A G A G A G G G A A G G G G A G G G A A A G G A G A A A G G A G A A$ AAAAGGGGAACAAGGAGGAGCCACAAGGAGACCAAAAAAAAC G G G G A G A A A A CAG G A A A A A A A A G G CAAAAA A GAA A GAGA A A A AACCGGGGAACCAGGGCCGAAAGGAAGGAAGGCAACAAGGAG AAACAGAAAGAGAGAAGGGAGGGGGAGGCCCCGAGGGGAACA GAA A A G GAGAGGGGGGAGAGGGAAAGAACAGAAAAGTXGGAA AAGGGGGGACACAGCCAAAAGGAAAAAAAGAAAGGAGGAAAA G A A G A G A A CAGAAAAGAAAAGGCCGAGAGGCCAAAAAAAAGG $C \subset C A A C G G A G A G A G C G G G A A A A A C A G A G G G A A A A A A G G C C G A$

A G GAAAGGGAAGGACCGAAAGGGAAACGGGGGGGAGAAACAA G GCCAAGGGGGGAAAAAACAAAGGAGAAAAAGCAGAAAGBAC AA G G A A A A A A A A A A A G GAGCAGAAGGAAGGAAAGCCAAGGCC ACAGAAAAGGGGGGGGAACAAAAACCGGGGACAAAAAGA GAA G GAA A G G G GAGGAGAGCAACAAAAGGGAGAAAGGGGAAGAAC A G G G A A A A C C A GAGGC GAGGCCGGCCAAGGAGGGGGAAAAAA G G A G A A A A GA G G G A C A GACCC G G G G A G G G G A A A A A G G G G G A A G G G GAACCGAAGGGAGAAGGAGAAAGGAAGGGAGCAGAAAAG GAGAGAAGAGAAGACAAGAGAAAAGGAGGGGGGGAAGGGGGA A GAAAGAGGGAGAGGGAGGGAAAAGAAAAGACGGAAAAAAAA G GAAAAAAGGGAGAGGGGCCGGGGGAGGACAGAGAGAAGAAC GAGAGGCAAGGAGGGAAAAGGGAAGAAAAAGAAAAGAGAGGG $G G A A G G A A A C G G G G A A A A G G A A T A A G G G G G A A A A G A G G G G G G$ $A C C A G A A G G G G G C C A A A A A C A A A A G G A A G G A A G A A A A G A A G G$
 ACAAAAGGGGGGAAGAAAGGAAAAGGGGGGGAGAAAGAAGAC A GCCGAAGAGGAAGAAGGGACACCGACGGAAGGGGCGAAAAG AAAGGGAGTTGGGGCCAAAAACGGAGAAAAGGGGAAGAAAAG AGGAGAACAGAGGAGGGGGGACGAAGGAGGAAGAAGAAAAAG G GAAAAAAAGAAAAAAATAGAAAAGGAAGGTTAGAGAGAGAA A GAA A GCC G G G GAGGGAGGGGAGGGGGGCCGGGGGGCCGGTT C CAA $A \operatorname{GAA} C \subset A A G G C C G G G G A A A G G G A A A G G G A A A A A A A A A A$ GAAGGAAAAGAAGGCCGAGGGACAGGGGGGATGAAACAAAAG A A G G G GA $\operatorname{A} G \mathrm{G}$ GAAAAAGAGGGGGAAGAAAACGGGGCCGGAGAA G GCCAGGGAAAAAAGGAGGGCGGACCGGACGGCACAAAAAGAG GAGAGAGAGAAGAGAAGGGGGGAAAAGGGGGGAAGGGGGGGG A A G G G G A A G GAAAATTCCGGGGGGGGCCGGAAAAAAAAAAAA G G G G G G G G G G G GAACCGGGGAACCAAGGAAAAGGAAAAGAAA A A A A G GCCGGCCGGGGGGGGAAGGAAAAAAAAAAGGGAAAAA G GAAGGAAAACCCCGGGGGGGGGGGGAAAAGGAACCAAAAAA G G A A G GCC $C$ G $\operatorname{CA} A G G C C G G G G A A G G G G G G G G G G G G C C A A A A A A$ G GAAGGGGAAGGAAGGGGAAGGGGGGGGGGAAAAAACCAAAA A A G G G G G G A A G G G G A A A A G G G G A A A A G G G GCCCCCC CAAA A A A $A G G G C C G G G G G G G A A A A G A G A G A G A G C A G G A C G G G A G A G G C A$ G G G G G G G G G A G A A T A G G G A A G G G G T T G G A CAAAA A A GA GA C A AA $\operatorname{AgGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGGGA}$ $G G C A A A G G A A G G G G A A A A A A G G G G A A A G G G A G G G G G G A A G A A$ G GAGGA $A \operatorname{A} A G G G G A A A A G A G G A G G A G A G C A G G G A A A C G A A G G$
 G G GA $\operatorname{G} C A C A A A A A C G G G G G G C A A G G G A A G A A G G C G C$
AACGAAGGAAAAAGGGGAGACAGAGGAAAAAGAAAAGGGCC AGAGAGCCAGAAGGAAGGAGGGAGGAGGAAGGAAGGCAGAAA A ACAAAGGAAGGAGAGGGAGAGGGAAGGGGAGAAGGAAAGAA A A GAACGAAAAAGGAAAAGGAAGGAAGGAAGGCCAAGAAAGG $G G A A A A C C A A A G A A G G A A A A C A A A G G G G A A A G C A C A C C A A A G$ A A G G A A A A A A G GAAAA A G GACAAGGAGGAAACAA GAAAAGAG $G G A A A G A G A A G A A G G A A A G G G G G A A A C C A G A G G G A A A A G G A G$ G GAGGAGGCAGGAGGACCGAAAGGAAAAGGCAGGGGGAGAAG G G G GAAAAAAGGGGGAAGGGGGGAAGGAAGAAGGAAGACAAA $G G A C A A C C G A A G A A G G C C A A G G A G G G G G G G A G G G C A G G G G G G$
 $G G A G G A G G A G A G A G G A A A G G G G A C G A G A A A A A A G G G A A G G A G$ C C A GAGGGCGAGGAAACCGAAGGGAAGAGAGAAAAGGGAGAA G GAAGGAACCGGGGAAGGAGGAGAAGACAAAACCCCAAGAGA G G G GAGGGAAAGAGGAAAGGAAAAAGAGGAAGCACACAACAC G G A A G G A A A GAGGGCCCAAAAAGAGGGGAAGAAACCACCCGG A GAGACGGAAAAGGGGAGAACAAAGGGGGGGGGGAGAGAAAG C C C C G G C A A G A A C C A G G G G G A G G G A G G A G G A G G G G G A G C A G G AAAAGGGGAGGAAGCCAGGGGGAAAAAGAGGAAAGGAGGGGG

GAGGAGAAGGGGAAGGAAAAGAAGAGAAGGAAAAAAGGAGAA CCTAGGGGGAGAACAAAGGAAAAAACGAAAAGAGAAAGAAGA GAGGGAAGGAGGAGAACAGAAAGGGGATTXAGCGGGGGCCBA G G GAGGCCAAGAAACCGGACGGGAGGGACCGAGGAAGGGGCA GAAAAACAAGAAACAGAAAAAGGACCAGCCGAGAAGGAGAGA C C G G A A G G A A G G G A C C G A A C A A G G A A A A A GAGGGAAAA G G T G GAACCAAGGAAAAAAGGCAAAAAGGGAAGGAAACCGAGGGA G GAA $A \operatorname{GGGGGGAGGAACAGACAAAAAAAAAGGGGGGAGAAAA}$ A A GAGAAAAACAGAAGCCAAGAAGGAGAAAACGGGAAGAGAG CCAGGGAAAAAATTGGGGCCAAGGGGAAAAAACCGGAAGGAA AACCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAG GAATT A A A A A A G G C C G G A A G G G G G G A A T T A A C C G GAA $\mathcal{A} G G G G G G G A A$ A A A A G GAA $A \operatorname{GAAACCGGAACCAAGGCCAAAAAAAAGGCCAAGG}$ G GAA $A \operatorname{GAA} C \subset A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G G$ AAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGGAA GGGGCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAGA A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G GAAAA G G G G AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAAA AAGGAAGGAAAAGGAAGGAACCGGAAAACCAAGGGGGGAAAA G G G G A A A A G G C A A G A G G A A G G A G G A G G A A G G GCC G A A G A A G A AAGAGGAAAGGACCGGGGGGGGAAAAGAAGGGGGAAAAAGGA AAGGCAGGAGGAAAGGGGAACAAGAGAGAACCGAACAAAACC A GCA $\mathrm{C} C \mathrm{C} A C \subset A G A G A A G A G G C G G G C C A A A G G G G A G A A G A G A G$ A CAC G A C C A G G A G A A C G G G A A A G G G G G G G G G G C C A A G G G G A A GAGGCAGGAAAAAAAGGGACACGAGAGGGGAAAGGGCCAAAA A A GA $\operatorname{A} A A A A A G G G A G A C A G A G A G G C C G G A A A G A A A A G G A A A A$ CAGAAAGGGGAAACAGACGGGGGAGGAGGGAGGGGGCCAGAA G G GCAGGGAGAAGAAGGGACCACCGGCCAAGGAAGGAAAGAG AAGGGGAAGGAAGAAGAATACCCCGAAAACAAGGAGAAAAAA AAAGAAAAGGGGGGAAAAAAACCCGGGGGGCCAAAAGCAAGG C C A G A G G G A A A A G G A A C CAAGGCCAAGGAAGGGGGAAAACAG AA $A G A A A G G A G G G G A G A G A G A C A G A G G G A C G A G G A G A G G G G G$ A A A A A A G G A A A A A TAA A G G G G A A GAAGGTTAAAAAAGGCCCA
 G G G GCCTTGGAAGAAGAAGCACAAGGGAGGAAAAAAGGGGTT A A C C A A C C A A A A A A A A A G G G A A G G G G A A A A A G G G A G C A A G G G CAGAAGGGGGGAAGGGACGGAAGGGGAGGGAAAAGGCAAGAA AAAGAGAAGGGGGGCCGGAACCGGGAGAAACCGAAGGGAAGA A GAAAAAAAAAAAAAAAAAAAAGGAAGAAACACCCAGGGGAA A A A A A A A A GAA ACAAACCAAAGCCGGGAAGGATTAAGAGGAA TAAAGGAGAAGAAGGAGAAGCCCCGGGGGGAGGGACGAAAGA G G G G A C A G A A G G A A A A A A C C G G G GAGCCCCAAA A A A A C G G G G G GAAACGGGGGGAAAGGGGGGAAAAAAGGGAGAGAGAAAGAG A A GAAAAACCAACCGGGGAAAAAGAATTGGGGCAGAAGAGCC AAAAGGCCAAAAAAAAGGAAAAAAAAAACCGGAAAGGAGGAA A G GA $\operatorname{G} A \mathrm{~A} G \mathrm{C} C \mathrm{C} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G A A A A G G A A A A A A A G A G G A G A A A G G G$
 GAGAAAGGGAAGGGGACCAAGGAGGAGGGAGGAAAGAGAAAA A A GAGAGGAGAACACCGGGGGGCCAGAGGGAGAAGGCAAAGA A A G G G G G A G G A C G G A G CAC CAAAAC GGGGAAAGGAAGGAAGCC AA G G A A A G A A C C G A A A A T G A G G G G G G A A G G GA G GAC G G G G A A AA $A$ A A A GACGCACCGGAGCCGGGGAGGAGGGAGAAGGGACAA $G G A A A A G A G G A A A A A A A A C A G A A G G A G G G G A A A A A A G G A A A C$ GGTAACGGAGCCGGGGCCAAAAGGGGCCAAAGCCAGGGGGAA C C A A G G A A A A A GAA A GAGGGGGAAGATTCCGAGGGAAACAAA AAAAAAGGGGAAAAGACCAAAGAGGACAGGACGGGGGAAAAAA G G G G G A A C G A C C G G G G G G G G G G G G G G A A A A C C C C A A G G A A G G
 $A G C C G A G G G G A A G G A C G A A A C G A A A A A C G A G A C C A G G G G G G A$

GACCGAGAGAACACGGAACCAAGGGAAGGGCGGAGAGAAGAA GAAGAGAGGCGGAAAAGGAAGAAGACAGGCAGGAGGGGAGAA G GAAGAAAGGAAGAGAGGGGAAAAAGCAAGAGGGAAAAGACA A A A A A A A A G GAAAAAAAAGGAAGGAAAAGGGGAGGAGGGGGG A G GAA ACAAAAGAGGGAAGGACAGCAGGGAAGGGAAAAAAAA G GAAGGGGAACCAGGAAGCCAAGGGACCGGGGAAAAGAAAGG A G G G A A G G A A A A A G A A A A C CAA A G GACCAAGAAACCACAGAA $A C G A G G A A A A A G C C G G C C A A G G A A G G G G C C G G G G A A G G A G A A$ $C \subset G A G G A G A G G A A A C A G G A G A G A G G A G A C A A G A A A A A A G G A A$ AAGGAAGGAAGAGGGAGGAGACAAGGGGCCAAAGAACAGGAA CACCACAACCCCCCAAGAGAAAAGCAGAGGAAGGGGCCAAGA A GCCGGGGAAGGAGAAGCGGGGAAGGGAGGACGAAGAAAGCA A A G GCAGGAGCCAACAGAGAAGAAAAGAGGGAGATTAAAGEG $G G A A G A A A G G A A G A G G G A C A G G A A A A A A G G A A A A A A A A G G A A$ CCGGAGCAAAGGAAAAAGGGAAAAAAGAAAAAAAAAAAGAAA AGCCGGGGAGGAGGGGACAGAGAAAGCCAGAACCGAACAAAG A G G GCCAGGAAGGACAGAGGGAGGCCAGGGGGACCAAGAAGG GAGGAACCAAGGGGGAAAGGGGGACCGGGGGGAAGAGAACAA A A A GCCGGGGAGGGAGGGGGGGGGCCAATTGGAAGAAGAAAA A G G G A A A G A G A A A C G G A G G G A A A A $\mathcal{A} G G G G G A A A C G G G G A A G B$ G GACGGAGGAAAAAAAAAGGAGAGAAGGTTAAGAAGAAAAAA A A A A A C G G A G GAGAGAAGGGAAAAGAAAGGGGAAAAAAGGGG ACAAGGGGGGAAAGGACAAGAAGGCAGACGAAAGAGGGAGAA G GAGCCAAACCAGGCAAAGAGAGAGGGGGACACAAAGGAGGA $A G A G A G C G G G G G G G A G G G A G A G G G A A G A C A G A G G A A C C G G G G$ G GAA ACAGAGAGGCGGGAGAGAGGAAGGAAAGACAAGGAAGA ATGAAAACACAGAGGGAGGAAGACCCGAGACACCCAAGATAG GAAAAAGGAAAAAGGGAGAAGGAACCAAAGGGGGGGGGGGGG AA $A \operatorname{GAA} A C G G G G G G G G A A A A A A G G A C A G A G A G A A G G G A A A A G$ $A G C C A A G A G A G G C G A G A G G A G G G G G G G G G G G A G A G A A A A A A G$
 G G GAGAAGAAGGAGGGGGAAAAACAGAACCAGAAAAAAAGGG AAAGAAGGACCAGAGGAACCACGGAATTACGACCGGGGGAGA GACAAGGGGGGAAGAGAGAAAAAGGGGGGGCCAAAAGAGGGA AACCAACAGGGGAAAACCAAAAAGAAAAGGAAGGAAAGAGAA A A A A C C G G A A G G T T A A A A G G CA A CAA GAGGCGGGGAA GAAAA AACACCGAACGAAGACAAAAAACCGGAACCACAAAAGGGGAAA AACACAAAAAAAAAAAGGGGAGAAGAAAAGAAGGAAGGAGAC A A A G G GACCCAAAAAAGGGGGGAAGGGGAAGGAA GAAAAGAG $G G C C G G A A G A G A A G G G A G A G G A G G A A A G A G A C A A A A G$
G G G A A A C A A G G G GAAGGGGCCAAGGAAGGGATTCCGGAGGG A A A A G G G G A A G G G G A G A A A A G GCC G G G G GAGAGAAC G GAAAA G GAGAAAAGGGGAAGATTCCGGAAGGAAAATTAAAAGGAACC A A A A A A G A A G G A G A A G G G G G CA $A \operatorname{GA} A G G A A G A A G A A A G A G G A G$ A C A A G G A GCC G A G G C A G A A A G G G G G A A G C C G G A A A G C C G G G C G G G GAA $A \operatorname{GCA} A A A A A A C A A A A A A A A G A G A G G G A C A A A G C G G C C$
 G GCCAAAAAAGGAGAAGGAGGCAACGAGATAGAGAGCCAAGA
 A GAA $A$ A $\operatorname{A} A A G A A A G A A G G A A T T G G A A A A G G A A G G G G G G C C B G$ G GAAAAGCAGAGGGGGGGGGAACCCCAAGGAAGGAAGGCCGG C CAGGGCCGGAACAAAGAGAAAGGAAGAACAAAGAAGAAGGG AC G G G G A G A G A G G G A G A G G A A G G A G G G G G C G G A G C A A A G G A A $C C G G C A G A G G A A C A A G A A G A A A A G G G G G G G A G G G G A A G A G G G$
 G G A A G A A A GAAA A A G GCGAAGGCCGGAAAAGAAGGAAAAAAG A G GACCGGGGCCAGAAAGAGGAGGACAGAGAAAACCAAGGCC C C A A C A A A G G A A A A A G C CAA $A \operatorname{GGGGGAGACCGGAAAGGGGAAA}$ $A A C C G G A A G A A A G G G A A G A G A C G G G A A A G G A A C A A G G G A A G G$

AAGGGGACAAGGGGAAAAGGAAGGGGAAAAAAAAGGAAAAAA
 A G A A G G A A G G G G G G A A G G G G G G C C G G C C G G G G G G G G G G G G A A A GAGAAAGGGGGGGAGGGGAAAAGGGGGAACCAGAAGGCGGG G GAACCTAAAGAAGCCGGGGAAGGGACGGGAAAAAGGGAGAC G G A A G G G G G G A G G A G G G G A A G G A G A A G G G G A G A G G G A A G G G A GAGGGGAAGAGGGAAGGAAACCGACCAAAACCAGGGCAGGAA AA G G A A A A A A A A A A A G A A A A G GTTAAG GAAAGAA GAA GAGAA $C \subset G G A G G G A A A A G G G G G G A A G G A G G G A G A A G G A A G G A G A G A A$ AGGACCAAGGGGAACGAGAAAAGGCCAAAAAGAGGGAAGGCC
 G G G G G G C A G G G A T T A A A C G G G G A A A C A A GA G G GAA G G A G A A $G$
 AC G GCAAACCCAGCAAAACAGGCATTGAAAACGAGGACGGGG G GAA A A A GAGAGGGGGAAGGACAGCAAGGGAAAAAAGGAAAA AAAAGGGACCGGAAGGAAGGGGAAGGGAAACCAGGGGGAGAG G G G A A A G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A A A C C A A A A G G G G A A A G C A$ GAAGAAGAGAGAAAGGAGAACAGGGGGGGGAAGAAAAAGGGG $A G T T G A A G A G A G G G G A G G A A G G A A G G G G A A A G A A G A G G A G A A$ AAGGAAAAGGCCAGAGAAAAAAAGACACGGAAAAAAAAAAGG A A A A A A A A GAGGAAAGAGAAAAGAAGAGGGAGAAAGGAACAA G GAACCGAAGGGGGGGAAGGGGAAGAGGGAAAGGAAAGAACA TATTGGAACCAACCAGGGAAGGAGAAAGCCGGAGGACCAAGA GAAGAGGGACGGAACCGACCAGGAGGGAGAGAAAAAAAAAGG $G G C A A C G A C C G A G A A A G A A G G C C A G A G G G G A G G A T A A A G G$ C G G A A G G G A A G A A G G G G A A A CAGGGGCCAGGGAAAAAA G GAG GAAGGGGGAAAAAAAGAGGGGGGGAAAGAGAGGAGACCACAAA A G G GAAAACCGGCCCCGGAAGAAAAAAAAAAAAAGGAAAGAG G GAA A GAAAGCGAAAACCCCAAGGAGGAGGAAAGAAAAGAGG $G A C C G A A G G G G A G G G G G G A G A A G G A G A A A A A C A G G G G G G G G A$ G GAAGGAACACAGATACAGGAAAAAAGGAACAAAAGGBAAAA GGGGGAAGCCAAAAGACAAGCCGGCCGGAGCCAAACCAAAGAA A A GAGGAAAGGGAAGGGGAAGGAAGGAATTGGCCAACAAAGG

 CAAAAGAAGGAGAAAAAACCAGCCAGAAGAGAAAGAAAAAGA T TAAAGAGCAGGCCGAAAAAGGCCAAGGAAAGGGAAGCCCGG
 A A GAAAAGAAGAAAAAAAAAGAGGAAAAAAGGCCGGAAGGAA GACCAGAAAGAAAGGGGGGGACGAAGTACAGGACAAGGAAAG AAGGAACCAGAAAAAAAAAAAAAAGGAAGGCCAAGGCCCCAA G GAAAAAACCAAGGGGAAAAAAAAAAGGAAGGAAAAGGAAGG AAAAGGGGGGAAGGAAAAAAAAAAGGAAAAGGGGAAGGGGAA AAGGAAGGAACCGGCCGGGGAAGGAAGGGGAAAAAAAAGGAA G G A A A A A A G GCCAAAACCCCCCGGCCAAGGCCGGGGAAGAAA GACCAGGAGGAAAAAGAGAGGAGGAGGGAAAGAAGACCAGAA A G G G G GAAAGACAAGAAAAGAAGAAACCAGAGGGGGAGAAGA A G G GAA A A A G G GAGCCAAGGAGAGGGAAGGGGAAAAAAGGGG GAGGAAAACCAAAAGGAGGGAAGGGGCAGGGAGGAAAAAAGG
 G GAACCAAGGAAAAGGGGGGAAGGAAAAGGAAGGAAGAAAGG $G G A A A A G G A A A A G G A A A A G G G G C C A A G G A A A G A G G G G G C C A G$ A A G G G A A A G G G GA G A A A GAGAAGGAGAGAACCAGGGAAGAAA G GAAAAGAGAAAGGGAGAGAAGGGAGGGGAAGGAAAGGACAA A A A A A A G G A A A A G G GAAAA $A \operatorname{AGGAAGGGACGACAGGGAGAGAA}$ GAGGAGGGCCAAGAAGGGGAGAGAGGGGAAATCCBGGGGGGG G GAAAACCGGGGGGAAAGGGAGCAGGAAGGGAGAAAGGAGAA $G G C C A A G G A A G A A A G A G A A A G G C C G G A A G A G G A A A A G G A A A C$ $G G G G G G A A A G A G A A A A G A A A G G G G A A A G A G A A A A C C A A A G G A$

G G G G G G G G G G A A G G G G A A A G G G A A G G G GA $A$ A A $A G G G C C G G G G$ AGGAGGAAGGAAGGAAGAGGGAAGTAAGCCAAACGGAGAGAA A A G G A A G G G G GAA A G A A GAAA CAA A A G CAA A A A G G G GA G G G A A G GAAAAGAAGACGAAAGGAAAGGAGAAGGAGAAACCTTGGGG AA $A$ A $G G C C G G A G G G G A G A A A A C A C G G A G A G C A G G A A G G A G A C$
 GAGGAAAAAAGGGAGGGGGGGGGAAGGACCGCGCACCCAAGB $A C G A A A G G A A A A A G A G C C A G G G C C A A G G A A G G A G A G A G G G G A$ A T A G A G G A G G G A A G A G G G G G G G A C C C A G G A A G G A C C A G G G G A $C \subset G G A G A A A A C C G G G G A A C C G G A A G A A A A A C C A A A A G A A C A G$ A GATAACCGAAAGGAAGGGGAGAGAACAGGAAAGAAGGCGAC AAAAGATTAAGGAGGGAAAAAAAAAAGGAAGGAACCAAAAAA A A G GCA $\mathrm{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G C \subset A A G A A C G A A A C C A A G G G G A G A A$

 AACCGGGGCCGGAGAAAAGAGGAGAGGGAAAAAAAGCCAGAA G GAGAAAAAGGAGGGAAAACAGGGGGGGGGAAAGACABCAAG A G G G A G GACAA A G G GAAGGGGAACGGGAGGCAGGAGCAAAAG AACCAAGGAGAAGAGGAAAACCAAGAAAGAGGGGCAGGACAA G G A A A A A A G G A G A A C C G G G GAC G G G GAGGGAACGGAAC GA G G G GAAGGAGGGAAAAGGGGGGAAAAACCCGGCAAAAAAAGAAG AAAGCAAAAGGGAAGGAGGAGAGGCCGGGAGAGGGGAGAAAG A A A A A G G G A G G G G A A A G G A A A GAAAGGGCCGGGGGAACAAAA A A A G A A G G A A G G A A G GCCGGAAAAAGGAGGCCCACCGAAAAA GAACGGCCCCGGAAGAGGAGGGCCGAGGGGGGGGGGGGAAAA G GAAAACCAAGGGGAAGAGGCCGGAACAAAGGCCAAGGGGGA GAAAGGGGAAAACAAGAGGAAAGAAAGGTTGGAAGGGAGAGG
 G G G G G G G G G G A A G GC CAACCGGAAGGCCGAGAGAGGGCCCGG AA GAAAGGAGGAAAAGAGAAAAAAGGCCGAGGGACACCAGGAG
 AAAGAAGACCGGGGAAGGAAAGGACCGGGAAGGGAGAAAGGG A GAAAAAAAAAGGGAAAAATGGAAGAAGAAGAGGGGAAAGAG A A G A A A A A G G A GAA A A $A \operatorname{AGGAGGGAGAAGAGAGGGGGAAGAAA}$ A GAA A G G A G GCCGGGAAAAAAACAGAAGGGGGGGCAAAGGAA GAACAACCGGAAAAAAAAGGGGAGCAAAAAGACCAACCAAAC AGACGGGAAGGACCAGAAAGGAGGAAGGAACCAAACCCAAGG A A GAACAGAGAAGGAAGGGGAAGGGGGGAAGAGAGGCAAAAA $A G C C C A A A T A G G A A C G A G A A C C G G C A G G G G G A A G G G A A C C B G$ GAACGGCCGAAGAGAAGGAGGGGGCCCCCCACAGGGA
AAAAGAAGGCCAAGGGGAAGGAAAAAAGGAAGGCAGGGGGG AAA A A GAGGGAAGAGAAGGAGGGGAGGGCCAGAGCCGGAGAA AAGGCCGGGGAGAAGAGGGGAGAACCAGAAAAAAAAAGAAGA GAAAAGAGGAAAGGAGCCGAAGAAAAGGGGAAGGGGAABAAG GAGAAAGAAAGAGGGAAGACCCAGAAGGGGGAAACCABAAAG A GAG $A \operatorname{GGA} \operatorname{G} A A A C A A A C G G G G A A G G G G A G A C G G A A A A A C A A A A$
 AAAAGGAGCAGGGAAAAAAGAGGAAGGGGAGAAGAAGACCGG G GAACCGGGGAAAAGAAAGGGGGGGGAGGGCAAAGAAGAACC A G G G G A A G G GCCAAAAAAGCCCAAAAGAAGGAGCAGGCAGAAG AAAAAGGAAGAGAGGGGAAGAAGGAAAGAGGAGAGGCCBGAA G GAGGAGGAAAAGAAGAACCAGACGGAAAAGAGAGGGGAACC A A A A G G G G T T A G C C G G A A A A G G A A A A G GAACCAAAAAAA A A A A G G GAAAAGGGGAAGGCCGGAACCAGAAAAGAGGACGGACAA GAGGCAAAGGAGGAGGGGAAAAGGGAAGAAAGCCAAGAAAAG GAGGAAGGAAAAAGAGAGCAAAAGCCGGAAAAGAAAAGAABAB GGCCAAAAGGAAAAAAAAGGAAAAAGAAAAAGGGGGGACAAA A GACGGGGGAAGACAGAGAAAAAAAAGGCCGAGGAAAAAGAA AACAGGGGGAAAAAAAAAAAGGTTAGGGACACGGGGGGAAGA

A A A A A A G G A GAAAGGAGGAGAAGGAAAAAAAGCCGGAAGGAG A A A G A A A A A GAA A A A A G GCCAA $\mathcal{A} G G G G G G G A A A G A A G G A G A A$ C C C C A C G CAGAACAAACAGGAAAAAAGGGGAGATAGCCAAAC G GCCAAAAGGGGGGAAGGGGGGGGGAAGGAAAGGGAGAAAAA G GA $\operatorname{l}$ A $\operatorname{GAA} A A A A A G G A G A G G G G A A A A A A A G G G G G G G G G G T T A A$ C C A A A A A A A A C C G G G GAAGGGGAAAAGGAAAACCAAAAAA G G C CAA G G G G A A A A A A A A A A A A A A A A A A A A C CAAAAAAAAAA G G G G G G G G A A A A A ACCGGAAGGCCGGAAAAGGAAAAGGGGAAAA $G G C C A A G G G G A A A A A A A A A A G G C C G G G G A A A A A A G G C C B G A A$ $C \subset A A A A A A A A T T G G A A G G G G G G C C A A G G G G C C C C A A C C A A G G$
 A A A A A A G G G G G G G GCCAAGGGGCCGGAAAAAAAAGGGGCCCA C CAAAAGACCGGAAAAAAAGAAAAAAGGAACCGGGGGGAAAA
 GAGGGGGGGGAAGGGGAACAAAGGCAAAAAACAAAGGGAACB A GAAAAAGAAGGGGAAAAGGGGAAGGGGGGGGGGGGAAGAAA G GAAAAAGCCAAAAGGGGATAGCCAAGGGAAACCCCGAAAAA AAACAAGGCCAAGGCCCCGGAGAACCAGACAAAGAGCAGGAA
 G G A G C C A A A A A G G G A A G G G A G A G G G G G G G A G G G A G G G A G G C A G G G GAAAAGGAGGGGGGGAAAAGAGGAGAAGGAAGAAGAAAA $C \subset G G C C G G A A A A A A C C C C G G G G G G A A C C A G G G G G A A C A A G G G$ G GAGGGGGGGGAAAAAAAGAGGAGGGAAAGAGAAGGAAGGAA AAAGCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGAAGG A GAGCCGGGAAAATGAAGGAAGAAGGGGGGAAGAGAAAAGAA G G G GACAGAAAGGGAAGGGGAAAGAAGGGGGGAGAGAAGGGA
 G GAACCAGAGAAAGCCGGAACCAAGAGGAAAAGACCGAGAAA G GAGAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A}$ G GCCAGACGGACAAAGGGAAGGACGGAGAA GAAACAGAGGGGGGGGGGGGAAGGAGAGGGGGGAAAGGGGGG A G G G G G A A A A C C A A A G G G G GAAAA A C C G G C CAA A A A C G G G G G G A GGAACGACAGGGGCCGGCACCGAAAAGCCGAGGGGAGGGAG GAAAAACCGGGACCAGAGTTAAGGAAGGGGAAGGGAGEACAA G G G GCCGGAAAAAAAAAAGGAAAAGGAAAGCAAAGGAGAGAA A A A A A A GAGAGGAAGGAAGGAAAAAAAAGGCCGGGGGGGGGG GGCCGACCAACGGACAGAAAGAGAGAGGAGGACCGGGGAAAA AAGGGGAAAAGGCCAAGGGGGGGGGGCCCCGGAACCAAAAAA A ATTAACCGGGGGGAAAAAAGGAAGGAAAAAACCCAAAAAAAA G G G G G G A A G G A A A A A A C CAGGGACAAGGAAAGAAAAAAAACC
 GACAGGCCAAGAGAAAAGGACAAGAGGGGGAAAGGGAAACAA G GAGGGACAGGGAAAGGAACAGGGGGAGAAGAGACCAGAAAG G G GAAAGACGGGGGCAAGGGAAGGCCAACCAAAGAGCGAGGG AACCAAAAAAGAAGAAAAGGGAGGGGAGAATTCAGAGAAAAA
 A G G A C A A C A A $\mathcal{A} G G G G G A G A G G G G A A A G G G G G G A A A G A G A A A G$ A GAAAAAAGGCCACGAAGGACCGAGGGGGGAAGGAAAA GACC
 A GAGACACAGAGAGCACCAAGGAAGGGGGAAAAAGGGGAAGG A GACGGAAGGAACCGGGGGGCCAAGGGGAAAGGGAAGAAAAA
 GAAGGGGAACAAGGAGGGAAAGGGGAGAAAGGGAAGAAAAGA G GAAAA AA G GACGAAAGGAGAGAGGACAGGAGGGGGAAAGGG AAACAGCAGAAGGGGGAGACGGGGAAGAAGGGAGGAGGGAGA GAGGAAAAAAGGAAGAGGAGAGCCGGAAGAAAGGAAAAAAGG G G G G G G A A G G A A GAGAAAGGAAGGAAGGGGAAAAA GAA G A A A $A$ A GAAAAAAAGAGGGGCCGAGGGAAGAAGGGGGAAAAAAAAGGG $G G A G G A G A G A G G A A A A C C A A G A G G A C G A G G G G G A A A G G A A G A$ GACAAAGGAAAGCAAGCCAAAAGAGGGAGAAGAGGAGAAAAA

G GCCGGGGAAGGGGGGAAAAGGAAAAAAGGGGGAGGAAAAAG CAGAAAAGGAGGGAGGAACAAGGGCCGGAAGGGAGAAAAGAG $G G A A A G A A G G G A A G G A G G C A G G G G G G A A A A A A A A A A G G A A G G$ AACCGGGAAGAGAAAGAACCGGCAGAAAAGACCAAAGGCCAA AAAGGGCCAAGAAGGGAAAAACAGGAAAAAGGAGAGGGAAAC AAAGAACAAAAAGGAAAGGAAGAAAAAAAAAAAGGAAAAAAG A G G G A A A G G G A A G GAA A A A A G G C C A A A A G GAA G G A A G G A A G G AAAAGGAAACAAAGAAGGAGGGGGCAGAAGGAGGGAGAAACC A A G G A G G G C C G G A A C C G G G GAC G A C C GAGGGGGAAAAA G G G G AAAGAAAAGGGAGGCAAAGAGGAAAGCGGGGGAAGGGGAAAA G GAA A A GAGATTGGGGAAGGAAGAAGAGAAGAGAGAACAAAG ACAAGGGAGGAAACGGAGCCGAGAGAGGAAAGGGAGGGAAAA G G G G A A G G A A G GAA $A \operatorname{G} G A G C C G G A C G A A G C C A G G A A A G G A A G G$ G GAGGGTTGGAGCCGGGGGGCCAAAACCGGAAACAGGGGGCA G GAGGAAAGGAAGGGGAAAAAGGGAAGGAACCAGAAACAGAG GAGGGACCGGGGAGGAGGAACCGAAAAACCAAGGGGAAAAAA G G A A A A A G A C A GAA $A \operatorname{G} G A A A A G G A G A A G G G G G G A A G A A A A G A G$
 AA GAA A A A G GAGAAGGAGAACAAGGAAAGGAGAGAGGGAGAA GAGGAAGGAAAAGGGAAAAAAAGGAGGGGGAAACAAGGAGAC AAGGACAGAAGAGGCCAAGGCCACGGGGGAGGGGAGAGAGGA G G GACCGGACGAGAGGGGGAGGGGAAAAAAGAACACAAAACAA $G G A G A G A G G G G G G G G G G G A A G G A G G G C C A A A A G A A A G G A G A A$ A CAGGAAGAAGGGGACGAGGCAGAGGAAAAAAGAGGGAAGAC A A A A A A CAGGGAAGGGGGAGAAGGCAGGAGAGAGGAAAAAAA GAGAGGAACCACAGGAAGGGGGGACCAGAAAAGGCCAAGGAG AAAAGGCAAAGGGGAGAAGGAAGGGAACAGGAAGAGAGAGAC
 A A G G A G G G G G G G A A A G A GAGAGGAAGGGAGGGGGAACAAA G G A A A A TA $\operatorname{A} G A G T T A A G G A A G G A A A A A A G G G G G G G G G G G G G G G G$ G G G A A GAGAGAAAGAGGGGAGGGGAAAAAGCACA GAAAAACC ACGAAAGGAAACGGAAAAAGCCGGAGAAGAAAAAAGGGACAA AAAAGGAACAGGCCAAAAAAAGGAAAGAGGAAACAAGCAAAC A A G G A A G A G G G G A G A A G A G A A G A A G G A G G G G G G G C A TAAA C C G GCACAAAGGGGGGGGAAGAGGAACCGGGGGGAGAAGAAGAA GAGGGGGGAAAAAAGGGGGAAAGAGGAGAGCCGGAGCCGGAA G G G GA A A GAA $A \operatorname{ACC} C G G G G G G G G G G A A A A A G A G A A G A A G A A A$
 A A A A A GCAA $\mathrm{A} A \mathrm{~A}$ A GAACAGGAAAAGGGACCGGCCGGGGAGAT $G G C A G A A G G G A A A A A G A A A G G G A A G G G G G G A A C A A G C$
C G GAGGAAGAACACAAGGGGGGGAAAAAAGGAAACCAGGGG GACCCCAAGGAAACAGGAAAAGGGGAAGAAAGGGAGAGAGGG G GAGGGAGAGGGGAGGGAAAGGAAAGAGAGAGAAGGGGGATT AA G GAGAAAAAAAAGGAAAAAAAAGGAAGGCCGGAAAAAAGG AACAGAAGGGGGGAAAAAAAAAAAAGCCAAAGACAAGBCCAA GAAAGGAAAAGGAAGGAAGAAAGGGGGGGAACGAGAAGACAA A A GAA A A A A A GAGGAAAAGGGAAGAAAGAAGGGAGGAAAA GA A TA $A G A A G A A G A A G G A A A G G A A A A G A G G G G A A C C G A G A G A A C$ A G G GAA $A \operatorname{GGG} G \operatorname{G} A A A A \operatorname{A} A A A G G C C G G G G G G A A A G A A G G G G G G$ G G G G G G G G G GCCAAAAAGGAAGGGGAAGGCCGGAGAGAACAGG
 A A G G A A G G A GAGGGGGGAACAACCGGAACCGGACGGAGAATA A G A G C A G G G G G G G A G G G A A C G A G A G G C G G G A G A A G G A A G A C C GAAGGAAGAAGAAGAAAAAGAAGATAAAGAAACCGGGAAGAA CAAGACGCAAAGAAAGGGACAGGAAGAGAAGGGGGGAAAAGA ACAGAAACGGAGGAAAAAAAGGGGGGGGGGACGGGGGGAGCC C C G GAAG GAAAAAGCAGGC GAAAAAAAAGGGGAAAAAGACAA $A C G G A A A G G G G A A A A G G G G G A G C C G G A C A G G G G G A A G G A A G G$ A G G G G A A A GAGGGGGAAGCCGGCCAAAAGGAAAAGGCAAACC

G GACGAGGGGAAAAAAGGAGGGGGCCAGAACCGGAAGGAGCC CAAAACAGCAACCAAGAAGGAAAAAGGGGGACAAAGAAAAAA GACAGGCCAGGCACCCAGAAGGGGAAGAGAAAAACAAAAAGG GAAAAAAAAGAACAAGCCAAGGAAAAGGGGGGGGGAAAGAAA
 G GAA $A \operatorname{GAAAAAGGGGAAAAGGCAAAGGAAAAAGGGGAGGAAAA}$ CAATAGGGGAAAGGAAGGAGGGCCTAGAGGAGACCCAAGAAA AAAAAGAAACACGGGGAAAAAAGAGGGGAAGGAGAAAGAGGG GGACCCAAGAGAAGAGCAGAAACCGGAACCAAAAAAGGGGGA G GAAAGAGAGAGGAGGGGAAAAGGAAAGGGAACACAAAGAAA $C \subset A A G G A A C C G G G G A G A A G G G A G G C C G G A G G G G G G G G A A C A A$ G GAA A A A A A A A GAGAAAGAGGAACAGAAACGAAGGAAAAAAG A G G G A A A G A GATGAGGAGAGAAAAAGCCGGACAGAGGAAGAG GAAGAAGGCCAAGGACCAGGTTGGAAGGGGAAAACAGAGGAG AAGAAAGGGGACGAAAAAGGGGCCGGAAACAAGAGAAGGGAA A A G GAAAA A GAAGGAAAAAAAAGGGGGGGGGGGGAAAAAGAA A A A A G GAAAACCGGAAAAGGGGGGGGAAGGGGGGAAAAGGGG A A G GCCGGGGCCGGGGAATTAAAAGGAAGGGGGGGGAAAAAA $G G G G A A G G G G A A A A G G G G A A C C A A A A G G A G A A G G G G G G G G G G$ A A G G G GAA $A \operatorname{GCC} C A A A A G G G A G A A G A A A G G G A A A G G A G G G G G G$ AACAAAGAGGAAAAAACCAATTAGACCAGGGGAAGGAAAAGAA $C \subset G A A A G A A G G A G A A G G C G A A A A G A A G G G G G G A A A A C C G G A G$ $G G A A A A G A A A G G G G G G A A G G A A A A G G A G A G A G A G G B A G A C G G$ A A G GCCGGAGAAGAAGAGCAAAAGGGGAAGGAACBAACACCC G G G G G G A A G G A A A A C CA A G G GA GAGGGAAAGGATAAGA G C T T AAAGAAAGAAAACCCCGGAGAAAGAAGGATAAAAAACC G GAA A GAAAAGGCCGGAAAAACCACCGACCGGGGAGAAAAGGBGAA
 GCGGGAGGGAGGGAAAGGAGAAAAGGCCGGAAACACGAAGGG $A C A G A G A C A A G A C C A A C C G G G G G A G G A G A A C C G A G G G G G G C C$ G G G GCCAGGAAGAAAGAAAAAAAAGGGAAAAAAA GGGGAGGG AAAAGCAGAGAGACTTGGAGCACACGCCGACAGGAAAAAAGG A A A A A A A A A A A A G GAA $A \operatorname{GAAACCGGAAGGGGAT} G G G A A G G G G G$ G G G A A A G G A A A A G G G G G G C C A C A A G G CAGGGGA GAA A A G G A A A G GAAACAGAGGAAAGGGGGTAAAAAAAGGCCCCGAACAAAA GAACAAAGAAGGGAACGAGGAGAGGGCCGGCCCCGGAAAACC GGCCCCAAGGGGAAGCAAGGAAAAAAAAGGGAGGAGAGAGCC AACAGGAGGACAGACAAGGAAGACGCCAAGGAGAGACAAGCAA C C C C G A A A A A A A C C G GCCAGGACAAGCCCCGGGAAGAAAGAA
 A A G G A A GAGGCCGGAGGAGGAGGGGGAGGAGGCAGAAAGGAA $G G A A G G G A A A A A A G G G G G G A A A G G A A A A G G G G G G G G A A A G A A$ C C G A C A A GCAA G G G A A A A A A G G G G G GAA G GAAAA A G G G G G G A A G G A A A A G G A A G G G G G G G G G G G G A G C A G G T T G G A G C C G G G G A A A A GAA A G G GAGGATAAAGAAGGAAAAGGAGACAAAGGGAACA A A G G G A G A A A A A G G C C G A A A GA $A \operatorname{GGGGAGGGGGAAAAGGGGAA}$
 CAC G G GAGAAGGAAAGCAAACAGAAAGAAAACAAGGGGGGGG G GAAAGAGAGGGAAAGCCGGCCGGGGGAGGAAAACAGAGGAG $A C G G A G C C G G G G A A A A G A C C A G G G A A G G G G C C G G A C G A G G C A$ GACCGGAAACAAGGAAAACCCACCAGAAAAAGAAAACCACAA G GAAAAAACAGAGGGGAGGAGGAACCGAAAAGCCGAAAAGAG A A G G A C A A $\mathcal{A} G G G G G A A A A A A G G G G A A A G G A G G A A A G G G A A A A$ G GAAGGGGAAGGGGAAAAAAGGGGCCGGAAAAGGGGAAAAGA G GCCGGGGGGAAAAACAAAGAAGGCAAAGGGGGGCCGGAGAG GAGGGGGAAACCAAACAGGAAAGGGGCAAGAAAAAGTAACBG G G G G G G GAGGGGAAGGAAGGAAAAGGGAAGAAAAGAAACCAC A G G G G A G G A G A G A A A G A G A G G G G G G GAGCACCGGCAC CA G G G $A C C G C C A G A C G G G G A C G G A A G G C A A A G G C C G A G G A A A G G A A A$

A A G GAAAAAAGGGCAGAACGGAAGGACAGGAGAGAAGAAGA GACAAAAGGGAGGAGGCAGGGAGGGGGAAGAAGGGAAAAGAA A G G G G G G GCCAAGACCGGAGAGAAAAAACCAAAGGAAGGGGA A GAGAAAACGAGCCGGAGGAAGGGGGAGGGAGCCGGGGAGCA G GAACAGAAAAAGGGGGGGGGGCCAAGGCCGGAAAAAAACAC A GAC $A \operatorname{CGG} G \mathrm{G} G \mathrm{G} G A C A G A A A A A G A G A G G G G A A G A A A G A G A G G G$ G GAGAAGAAACCGGCCAAGGGAGGGGAAGGGAAAAAAAAGGG G G GAA A A G G GAGAGAAGGGGGGGGAGAAGAGGAAAACAAGAG GAAGAAGGGAGGAAAAGGGAGGGAGGAAAGAAAACCGGAAAA GGAACCGGAAAGCCCAGAGGGGACAGCCAGGGGGAACAAGAC A G GAAAGGAACCAGGGAGAGAAAAAAGGCAAGGGAAAGAAAA AA GAGGAAGAAGAGAAAACCGAAAAGGGGACAAAGGCCAAAAA
 GAAAACAGGGGGACATGGAATTCCAAAAGGGGAAGGCAAGAC A GAA $A \operatorname{GAG} \operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A A A G G A T A G G A G G G A G G G G G G A G A A C A$ AAAGGGAAGAGGAGGGGAAGCGGACACCGAAGGGAAAGAGAG G G G GAGAAAAAGAAAAACACAGAAAAGGAGAGAGGGAAAAAA A GAGGGAAGGACCCGGAAAGGGCAGAAAGGAAGGCCGAGGCC $C \subset C C C C A A G G A A G G A A A G C C C C A G A A A A A A A A A A C G G G A A G G$ $A G G G G A A G A A C C A A G C C C G A G G G G A A A A A A G G A A G A G G A G G G$ G GAGAAAAGGGATTAAAAAAGGGGCCGGAACAAAGGGGCCGG A AAACCCAAAAGTAAGACCCGAACGGGAGGAAGGAAAACCCC G G A T T T G G A A G A G G G G G A G G GCGGGAGGGGCAAAACA GAA GA CCGGGAAAACGAGGAGAAGGGAAAAACCGGGACCCAAAAAAA A A C G G GAAAGAGAGAAGGAGAGAAGAGGGGAACCAAGAAA GA GAGGAAAAGGAAAAGAAGAGAAGGGGGGAGAACCGGAAGAGG G G G G GAGACCAAAGAGACAAAAAAGGAAAAAAAAAGAGAAGG G GAGAAAAAATTGGAAGGAGAAGAAAGGGAGGGAAAAAAGGG A GAAA A G G A A A GCCGGGGAAAGAGAGAAGAGAAAACGBAGAA G GAA A GAAACACAGGAGGGGAAGGGGGGGGAGGGAAAAAAAG GACAAAGGGGGACCGGGGAGCACAAGGAGGAAGGGACAAAAG
 GAACGAACAAAAGAGGAGAAGGGGAGGAGAAACCAGAAAAAG $A G A G G G A G G G A A G A A A G A A G G A A G G A A A A A A C A G G A G A A G A G$ $G G C C A G A A G G A G G G G G A G A T A A C C A G G G A C G G A G A C A A A G A A$ GAGAAAAAAGGGGGGGGGGAGAAGGGGGGGCCAGCCAAGGAA G GAGAACAGAGGAAAAAAGGGGCCAAAAAGAGGGGAGAAAAG
 G G G G G GAA $A \operatorname{GAA} A A A G A A A G A G G G A G A A A A G G C A A A C C C A A A$ A ACCGGAAGGCCCCAGAAAAAACCAAAGAAAAAAGGG
GGGACAAGAGGGGAGGAGGACAAAAAAAACCAGCACCAGAC G GAGGACAAAACGGGGAAAGCCGGAAAAGGAAAGGAAAGGCC CAGGAGGGGGAAGGAAGGAGCAGGGAAGAAAGGGAGAAGAAA A A A G G G G A G G G A G A G G A A A A A A G G G GAC $\mathcal{A} G G G G G A A A A G G G G$ $A G C A G G A G G G A A C C G A G A G G A G G G A A C A C G G A G A A A A G T T G G$ G G GAGGAGCCAGCACCAAAGCCGGCCAAAAGGGAGGGGGGGA AGGGAGCCGAAAGGGGGGAAAAGGAGAAGGAGACAAGGAAAG G GAGAAAAAAGAGGGGAAAGATGGGGGGAGAAAAAAAAAAAA AACAGAAAGGAGCAAAAGGAGGAGAAGGGGAACCGAAAAAAG G GAAAAAGCAAGAGGGGGGAGGAAAAAAGAAACCAAGGAGAA GAAAGCGGAAGGGGAAAAAGAAGGAGCCGAGGAGAGAGAAAA GAAAAGAAGAGGAAGAAAAGCAGGGGGGAAGAAGCGCCAGAG G GAA A G G G G G G G G GAACACCGAAGAAGGACAACCAAACGGGG GAGAGGGACCGAAGGGGGGGTTGACGAAGGCCAAAACCAAAG AAAGAGGAGAGGGGAAAAGGAGAAGGGAAGGAGAAAACAAAA G GCC $C$ G $\operatorname{CA} A G G G G A G G G A A A A G G G G G A A A A G A A A A B C G G G G G G$ CCCCAGAGGGGGAAAAGGAAGGGAGGGGAAAGGACAAAAAAG ACAGAAACAGGGGGCCGAGGGGCAAAGGAAAGAAGGAAATGA AAGGAGCCGAAAGGCCAGAAGGCCGGAAGGAAGAAAGGCCGG

A A A A G GAGGGAA $A \operatorname{A} A A G A G G G G G G A G C G G G G G G G G G G G G A G G A$ G GAGAAAAGAGAGGAACCGAGGCAAAAAGGAGGGAAAAAA G G $A$ G G G GAAAGGGCCAGGAATAAGAAAAAAAAGGACCGGAAAAAA CAAAAAGGGGGGAAAAGGGAAAAGCCAAGGGAGAAGACGCGG GAAAAAGGAAACCAAAAGGAGCCCAAAGCCAGACAAAAG GAA A G G A G GCCAAAGGAAAGGCAAAGGGAAGGGAAAAGAAAGGCC AA $A \operatorname{GA} A A C A A G A C C G G G A A A G G G A A A A G C C G G G G A G G C A A G G$ AC G G G G GAAGGGGAAAGGACAGAAAACCAAAGGGAGGGAAAA C CAA $A \operatorname{GGG} \mathrm{G} C A C G A C C G G G A G A A A A G A G G G G A G G G G A A G G G G$ G G GAAAAAGGGGAGAAAGCCGAAAAACGAGAAAAGGGGAAAG CAAAAAAAAAAAACAAAAGGGGGGGGAAAAGGGGGGGAAAAA G G G G G G C C G G G G G G A A G G G G A A A A G G G G G G G G G G G G A A C C G G G GAAGGAAGGAAGGCCGGGGGGGGAAAAAACCAAGGAAAAAA G GAA A $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} C \mathrm{C} G \mathrm{G} A A A A A A A G G A A G G A A A G A G G G G A G G T T$ A A G GACGGAAGGGGGGAAGAAAGGCAGGGGCCGAAAAAGAAA A A G G G G G G A A A A A A G G G G G G G GAA $A \operatorname{AGAAGGAAGGGGAAAAAA}$ AACCCCGAAGAGGGAAAACCCCAAGGCCGAGGTTAAAAGAGA GACCGGAAGGAACCAACAAGAACAAGGAGGGGAAGGGAAAGG $G G A C G G G G A C A A A A A A A A A G A G G G A C A G G G G G A A G G A A A A G G$ A GAGGGGGAGCAGCGAAAAAAGCAGGGGAAAAAAGGAAGGAA G GAAGGGGGGGGAAAAGGCCGGAAGGAACACCGGAAGGAGAA AA G GAAAAAAAAGGCAGGCCCAAAGGGAGAAGGAGGGGGGCC $A G C A G A A C G G G G G G A A A A G G A G C C G G G G A A G G A G A A C G A G A G$ G G A G A C A G G G G G G A G G A G C G C A G G G G A A A A A A $\mathcal{A} G A A G G G G G A$ $G G A G A G A A A C A A G A G A A A A A G G G G G G C C G A C G G G G G G G G G G G$ A GAGGGCAAAGAGGGAAGCCGAGGAAGGAAGGAAGGCCAAAA A G G G GAGACCACAAAAAAGGGGAACCAACCGGGGGAAGAAGG A A G G GAGGGAAAAAGACCAAAAGGAAGAAGGGGGAGAGAGAA A A G G G G G A A GCAA $\mathrm{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G}$ GAGAAAAAAAAATTAAAAGAACAG G G G GAAAGAAGAGGAACCAAGAAAGAAGGGGGGGGGCCBGCC
 GGCCGAGGGGAGAAGGGGAAGGAAACAAGGCCGAGAAAGAAA G G G G GAACAAGGAGAAAAGGAGGGAAGAGAGG
 AAGGAACCCCCCAAGGAGAACAGGAAGGAAAGCCAAAAGGAA
 G GCCAAGGGAGGAGGAGAAGGGGGGGCCGGAGCAAGGGGAAA $C C G A G G G A G G A A G G C C A G A G C C G G G G A A A A A A A A G G G G B A A A$ C CAACCGGCCAAAGGAAAAGGGGAAAGGGGGGACGGCCAGAA G G A G G A G G G G G G G G G G G G G G G A G A A G G G C C G A A T A G G A G G A A G G G G G G G G G G C C G G G A A A A A G G A A C C G G G G G GAA A GAA A G A A A A G A A A G A A G G G G A A G A A G G G G A A G G A A A G A C G G A A G G G G A G CAGAAGAACCAAAAGGGAAAAGAAAGAGCCAAGCGGGGAAGA GAGGAACCGGAAACCCAGGGAAGGGGTAGGAAAAGEATAAGA A A G G G GAA $A \operatorname{GAA} C \subset A A G G A A A A A A A A T T C C G G G G C C G G A G C A$ AAGGAAGGAAAGGAGAAAGAGAGAAAAAAGCCAAACABAABA $G G A A G G A A A A G G G G G G A A A A G G G G C C G G G G G G A A A A C C A G A A$ AAAAACAACCGGACGGCAGGAAAACAGGGAAAGAAGGGAGGG AGGAAAAAGGAACCGAGAGGAAAAAGCCAGAAAGAAAAGAAG A GAGAAAAGGAAAAGGAGAGAACCAAAGCAGAGAAGAACAAA GAAGGGGGAACCGCGGAGGGGGGGAAGGAAGGCCGGAAAAAA AAAAGACAGGAAGGGGCCAAGGGAAGGGCCGGATGGGGAAGA $G G A A A A C C G A G A A A C C G A G A A G G A A A A A G G C C A A A A G G A A G G$ G G G GAAAGGAGACCCCGAGGAAGGAACCGGGGGAGGAGCCGG AAAAGGCCGGAAAAGAGGGAAAAAGGAAGGGGAAAAAAAAAA G GAA A GAAAAGGGGGGGAAAGGGGAAGGAAGAAGGGAAAACC A A G G A A A A GAGGGGCCAAGAGGAACCAAAAAACCAGAACGAA $G C G A G A A A A G A G G G G G G G A A C C G G G G A A G G A A G G A A A A A A A C$ AAAGAAAGAAAAGGAAGGAGCAAAACGAGACAAAAAGGAAGG

AAGGGGGGAAAACCGGGAAAAGGGCCAGAAAACCAAAGGAGG G G A A A G G G A A C C G A GAAAAACCGGCCAGGGAAGGAAGGAGAA G G G G G G G G A A A GAGAACCAGAAACCCGGGGGAGAAGAAAGAA A ACCCCAAAAAAAAGGAAGGGGGGAACCAAAAAAAGAGGGGG A A GAAAGGAAGACCGAGGAGGAAGGAAAGGAAAGGGAGAGAA G G G G GAAAGGCCAAAAGAGGGAGGAGAAAAAAGGCCGAAGGG A A GAGACAGAGAAGGGGAAACCGGAGGGCCGAAGGAAAGAAA G G G GAAGGGGTAGGAGCAAGAGAGCATTGGCAAAAGAAAAAA
 AAAAGGGGCCAAAGAGGGAAAAAACCGGGGAAGAACGGGGGG AACGAGCCAGCCAAGGGGCCGGGGAAGGAAGGCCAGCAAAAA GACCACAGCAAAGAAGGGGAAGGAAAGGAAAGAGGBAACA G G A A A A G G T T A A $\mathcal{A} G G G G G A A A A G G A A G G G G G A G G A A G A C A A A G G$ A A T A A A G G G A A G G G G G G G A A G G G G A G G G C C A G G G G A G G G G A G A G G GA GAA A GAAAAAAGGCAAAGAGGGAACAGGCGGAAAAGG G GAAAGGGGGAGGGGACCAGAGGGAAGGGGGACAGAAACCCC G GAA A GAGAGCCGGAGCCGAAAAAAGGGAGGGGGAAGGGGCA A GCCCAGGAAGGAACCAAGGGGAGGGCCGAAGGGGGAGAAAA AAACAAGGGGAGAAGGAGGAAACCAAAGGGACCCGAGAAAAA A A A A G G A T C A G A A G A GCCGGGGGGCCAAAAAAGGCCAAAA GA A G GAGGAGGGAGGAGAGGAGAAAAAAGGGGAAGAGAACAAGG A GAGGGGGGGGGGAGGAGAAAAAAGGACAAACGACCCACAAA A A A A A A A A A G G GAAAAAAAAAGGAGGGAAAAAAAAAAAAAAA $G G A A A A G G A G A G G G A C G A G G G G G G A G A A G G A A G G C C C C A G A A$ A G G G G GA $\operatorname{G} G A A C A G G A A G A A A C G G G G G G A A G A A A G G G G A G A A$ G GCCGGCCAAGGGAGAGGGAAAAAGAGACAAGGGGGAAGGGA A GAGAAGACCGAACGGCCGGAGGGCCACAAGAGGACAAAAGG GAGGAAAAAACCAGCCGAGGGGCCCAAAAAGGAACCGAAAGG A A G G A A G G A A A A G G GAGACCAAAGAGAAGGAAAA G GAGAAC G G G GAACAAAAACCAAGGGAAAGGAAACCCGGCCGAGGGGGGGG A A G A A A A A A A A A G G CAGGGGACGGGAAGGAAAAAA G GAAGGGG AAAAAGCCCACCCCCGAAAGGGAAAAGGAAGGGAAAGGGAAA C G G GAA A A A A G GAA $A \operatorname{A} G A A A A G C A G C C A G A G A A G G G G C C G G A A$
 A A G G A A G G G G A A A A A A GAA A G GAC GA G G GAAAAAACCCCGGGG A A G G G G G G G G A A A A A A A A A A A A A A A G G A A G G G GAA A G G G G G G G A A A A A A G GAAGGAAGGCGTTGGATGAAGAAAAAAAAAACCAG GAAGAGGAGAGGCAGAAAAGGGAGAACCGAAGGACAGAAGGG GAAGCAAAGGGGAAGGAAAACAAGAAGGGGCCGGAGAACAA G A A A A A G G A T T A A A A G G A A A A G G G G G G G G A G A G A G A G G G G A G G AAAGGAGGCCGACCAAGAAAAAAGGGCCGGGGAAAAGGAACC GGCAAAAAGGAAAAAAAAAAAAAAGAGGGAGAGGAAGGACAA G GAAAAGGGGGGAAGGAAAGGGGGGGAACCAAAGGAAGAGAG C CAACAGGAAAGAGAAAAAAACAAAAGAGGAAGGACGGGGGA G G G G A A A A A A A A A A A A A A A A GACCGAGAGGGGAGGAGAA GAA G G G A G G A A A A A A A A G G A G A A A C A G G G CA G G GA G G C C C C G G G G G GAA A G G G GAAAGGGAGGAAGGGGCCAAAAAAAAGGAAAAGG A A A A A G G A G G A A G G A G G GC CA $\mathcal{A} G G A G A A A G C C A A C C A A G G G G$
 G G A A A A A G G G A GAA $A \operatorname{G} G A A G G A A G G C A G A A A A A A G A A G G G G T T$ G G G G G GA G GAGGGGAAGAGGAGAAAAAACCAGGGGAGAAAAA G G G G G GAA A G G G C C G G G GAA A GAAAAAGGAACCAACAAA G G G G
 GGAGCCGGGGGAAAAAGGGGAAGGAAGGAAGAAAAAGGGGGG AAGGAACCAAAAAAGACCAACCAGAGAAAAAAAGAGAGAAAA AA GAGAGGAGAAGAGGGAAAGGGAAAGAGGAAGGAAGGAAAA GAAGAGAGGAAGGGGAGAAAAAAAAAAAGGAGAGAGGAGGAAA $G G A G A A A G A A A A G G A A C C C C G G A A G G A A G G G G G G A A A A G G A A$ AAGGCCGGGGTTGAGGACCGTAGAGGAAGGAAGAAAAGAGAG

G G GAGGGGGGAGAAGGAAGGAAAAAAAAGGGAGAGGAAAAGG A A G G A A A A G G G GAA T T G G A A A G C C G G G GAA $A \operatorname{AGGGGGGGAA} G A$ G G G GAGAAGAAAGGAAACGGAAGAAGGAGAGAGGGGAAAAAC AAACGGGAGAGAAGGAAAGGAAAGAAGACCAGATGGGGAGAA A A A A A A G A G GA A G GAAGAGGGGGAGAGGAAGGCCAAGAAACC AACCGGCCAAGGGAGGGACAAAAAGGAAGGACGGCCGAAAAG AA G G G GAAAGGGAAAGTTCCAAGGAAAAAAAAGGAAAAAGAA $G G G A A A G A A A A G G A A G C C A C A A G G A A A C G G A A A A A A A G A G G G$ A A A C G G G G A $\mathcal{A} G G G G A G G G G G A A C A A G G G G G G G G G C C G A G G A A$ G G G GAAGAAAGAAAGGCCGAGGAAGAAGAGAGGACAGAAACC AACCAAGGGGGGCCCCGGAAGACACACCGGAGGGAAGAAGAA A ACCAAGGGGAGGAGGATACGAGAGGACCCXAAGCAGGCCGG


 GGCCAAAAAAGGGGAGAGCCGGCCAAAAAGGGCCAGAAAAAAA A A GAA A G A CAGAGAGGGGAGAAGGAAGGGAAAAAAACCACAA
 G GAGAAAGCCAAAACAAGAAGAAGACAGACAAAAGAAAAACC G GAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} G A A A A A G G A A A A A C A G C C G A A C A G G G G A G G G G$ GAACGAAGGAAGGGAAGGAGGGGAGGCCGGGGAAGGAAGAAG A A G G G G G G G G A A G A G G A A A GACAGCC G GACAGAG GAGGAGAA A A G G G A G G G GCC G GACAGCCAAGAAAGACCAAAAAAGGGGCC C C G G A A G G C A G GAA $A \operatorname{GGGGAAAAAAGGGAGCAACGGGGGGAGGG}$
 A A A A A GAA A $A \operatorname{A} A A A G G A G G G G G C C T T G G G G A A G A G G G G A G G G$ AACCAAAAAGTACAAAGGGGAACACCCCCCAAAABACCGGGG A A A C A A G G G G G A A A A A G GAGAGCCAAAACCGGGGGGGAAAC C C C G GAA A A GACCAAAAGGGAGAAAAAGGAACCGAAAGAAGAA AA $A$ AA $A G A G A A G A G G A A G G G A G G G A G G A A C A G A A C C G A G G A G$ GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGAAAAG A GAACCGGGGCAAGGGGGAGAGAAGGAAGGGGGGAGGAAAGA G GCCCCGGGGGGGGAAAAGGAACCGGGGAACCCCAAG
GTTGGAAAAAAGGAAAAAAAAAAAAAAGGGGAAGGAAAAGG A A A A A A A ACCCCGGAAAAAAGGCCGGGGAACCCCAAGGGGAA G G C C G G G G G G G G A A G G A A G G G G C C G G A A G G G G G G A A G G A A G G G G G G A A A A G GCCGGAAAAAAAAGGCCAAAAGGCCAAAAGGAA AA $\operatorname{A} G \mathrm{G}$ GAAAAAAAAAAAAGGCCAAAAGGAACCGGGGAAAACAC G G G G G G A A A A A A C C A A G G A A G G G G G G A A A A G G C C G G C C G G G G $A A G G A A G G A A G G G G G G A A G G G G A A G G G G G G G G G G G G G G G G G G$ $G G C C A A G G G G G G A A T T C C G G T T A A A A A A A A A A G G A A A A A A G G$ G G G G G G G G G G G G G G A A $\mathcal{G} G G G A A A A A A A A A G G A G G G A C G G A G G G$ A A A A G G G G A G G G GCCCGGAAGGAAAAGGAAGGAGBACAXAA G CAGGAGAAACGAGGAAGGCCGGGGAAAAGGAACAGGGCAAGG
 A GAA $A$ A A A A A GAGGAGAAAGGAGGGAAAAAAGGGGGGGAAAA G A A A A G A G G G G G A A G A C G G C C A GAGACAGAGCCGGAGAA G GAA G GAA A G GAGGAGGGCCGAGGAGAAAGAAGGAAGGAAAAAAGA AAGGCCTTACACGAAAGGGAGGGGAACCAAAGGGATAAGGGG GAGGAGGAAAAAAGAAAAAAAGAAGGCAGAGGAGAACA GAAA A A A A A A A GCCGGGAAGGGACGGAACCAAAGGAAAAAGAACAA GAAAACGAAAAAGACAGGGGGGAAGGGGGGGGGGGGAGAAAA G G G G A G G G A G A C G G G G G G G A A G A G C G C C A GAAAA A G G GAAA A AAAGGAGAAAGGGGAAAAAAGGGACAAGGACAGGAAAAGGGG G G G G A A A G A A G GAAAAGGCGGCAAGGAAGAGGGGAAAA GAAA A A A G A G G G A A G A C A G A G A A G G G G A G G A A A A G G G G A A G A A C G G G GAACCGGGGTTAAAGAAGGAAAAGGGGGGAAA GA GGGAAGG G G G G A A A G G GCCAACCAAAGGAACCACAAGAACCCCAACAA G AAAGGGAAAAAGGGGGAAAAGGAAGAGAAAGGGGAAGAAAGG
 G G GACCGGGAGGGAATAAGGAAAAAGAGAAGGGGGGAAAAAC A A A A CCGAAAGGGGCCAACCAAGGGAGGAGGGAGGGAGGGGG $C \subset A A A G A A C C C C A A A G G A A A G G G A A A G A A A T A G G A A G G G A G A$ G GAA A GCCAAGGCCCCGGGGGGGGAAAAAGGAAAGGGGCCCC G A A A G A A G G G C A A A $\mathcal{A} G G G G G G G A G A G C A G G G G A A A A C A A G C C$
 AAGGGGAACCTTGGCCCCGGGACCAACAGACAGGGGAAAAAA A A G G A A A A G G A A G G A A A $\mathcal{A} G G G G G G G A A A G G G G C C G G C C G G G G$ CAAACCAGGGGGGGGGGAAGGAGGGGACGGAAGAGACCGGGG A GCCGGAAAAGGGGGGTTGAAGGAGGAGAAAGGAGAACAAAA AAAAGGAAGGAACAAAAAGGCCGCGCAGAAAGGACCAAAAAG AAGGGGAAAAAAAGAACCGGAAAGCCCCAAGAAGACGAAAAA $G G G A A A C A C A A G G A G G C A G G G A A G A A G A T A A A A A A A A G A C A A$ $C C G G A G C C G A C C G A A A G G A C A A G G A G C C A G G G G G G A A A G G C A$ AAGGGAAGAAGGACGAAAAAGGAGCACCCCGGCCCCACGGAA A G G A A A A A G G T T G A G G G GC C G G C A A A G GAAAA A A A A G G G G A A A A G G A A A A G G A A A A A GATAGAAGAAGCCAAAGAAAAGAGGAA $G G G G A A G G A A G A A A G G G A A G A G A G C C G G G G A A A A A G G G A G A A$ C A G A A A G G A G G GA G G A G A C C A C A A C A A G G G A A G G A A A A G G G G AAGGAAAAGAAACAGGGAAAAAAAAGAAAAAAAAAAGAAAAA
 ACAGAAGGAAACCCGGAGAAGGAAAACAAAGGAACCGGGGGG G GAGTTGGACGGAAGAGGGAGGGAGAAAGGAGAAAAAAAAAA A A G GCCCCGGAAGGGGCCGGGAAGACGGAAAAGGGGCAAAAG AA G GCCAAGGAAAGAGCAAAAGGAAAGAAAGGCAGGGAAAAG AACCGGGGGGAGACAAGGAGGAAAAGACGAGGACAAGAAAAA G G A A C C T A G G G G C C A G G G G G G G A A $\mathcal{A} G G G A G A A G G A A A A G G G G$
 GAGAGAGGAGAAGGGGGGAAAAAAAAGGAAAGGAGAAAAGGG G G G G G GAGGAGGAAGGACAGAGCAAGAAAAGAGGGGCCAACAA GGCCGGAAAGAAAAGGAAAAAGAGATAAAGACGAGAGAAAAA A GCCAAAGAAACGAAGCCGAGGGGGGCCAAGGACTTCCAGAA
 G G G G C A A G A GCAGGCAACGGAAGACC GAGGAGGGGGGAAGAG A GACTTAGGAAGAACCGGAGAAGGAGAGCAAAGGGGGGAACA AAAACGGGGGAAAAAAAAAGAACCAAAAGGGAGGGGAAGGCC AACCAAGGGGGGAGGGGGCAAGGGGGGAAGGAAGAGGGAGAA AAACGAGAACGAACGGAAGGAAAAAGGAGACCGGAAGAAGAA
 AACGAGTAGGGGGAAAGAAGAGAAGGCCAAAGAGAGAAAAAC G G G G G A G A A A C C CATTCC G G G G A A G G A T CACCCCAAA G GAC C AAGAAGGGAGGGAAAAAGAACAAAGGAAGGGGAAAAAAGAAA G GAA $A \operatorname{A} A \mathrm{~A} C \mathrm{C} A \mathrm{~A} C A C \subset A G G G A A A A A G A A G G G G A G C A A G G G G G$ G GAGGGAAAGAAGGAAAGAAAGGAAAAGGGAGAAGAGAAAAG

 G G GAATGGAGGGAAGGAAAAAAGAGAAGACAAAAGGGGACAA AAGGAACCAGCAGATTAAAAGAATTAACAGAAAAGGGGAAGG G G G G A A A A G G A A C C G G A A C C G G G G C C G G A A C C G G A A A A G G G G G G A A A A A A G G G G GAAC GAAAGACCAAAAAAACGAAAGAAGAG GGAACCAGAAAACAAGGGCAAAGAAAAAGGGGGGGGAGCCGG A G G G C G G G G G A G G A C C A A G G G G A A G G G G A A C A A A G G G G A A G G G GAAGGGGGAAGAAGGGAGGAACCAAGGGGAACAAGTTCCGG $C \subset A A C C G A A A G G G A A A G G G A A A G G A G A A A A A A A A A C G G G G A G$ A GAA A G G G G G A GAAAAGGAAAAAAAGAAGGGGAACAAATTAA C C GGCCAAAGAAAAGGAAAAGGAAAAGGAAAAGGAAAA G G GAA G GCCAAG GAAGGGGGGGCCAAGAAAAACAGGGGGAACAGGAG GGAACCGGGAAGAAAAAGAGGGAAAAGGGAGGGGGAGAAGAG

A GAGAGGGGAAGAAAAAAAAGGAACCGGACAAGGGGCCGGTT A GAG $A G C C G G G G G G C C G G A A C C G G G G C C C C A C C C A A G G T A T T$ G GAAAAGGAAAAAAAGAAGGGGGGCCCCAAAAAAGGGGGGAG G G G GAAAGGAGGAAGAAAACGAAAGGGGAAAAGGACAGAAGA G G G GAAAAAAGGCCAACCAAGGGGGGAAAGGAGGGGAGAGAA G G G GCCAAAGATGGGAGACAGGCCGGGGGGAGAAAGGGGAAA GACACCAAAAGGAGCAGAGGAAAACCAAACGGTTGGAAGGAA GGAAAAAAGGAACCAAAAGGGGGGAAAAAAGGGGAAGGAGAA G GAAGGGGCCGGGGGGGGAAAACCCCCCAAAATTGGAAGGAA A A G GAAAAGGAAGGGGGGCCGGGGGGGGAAAAAAAAAAAAGG G GAACAGGAAGGAAGGAAAACCCCGGGGGGGGAAGGAACAAA GAAGGGCCAAGAGGAACCAACAACAGGGCCAGCCAAAAAAGG $G G C C A A G G G G G A G G A A A A G G C C A G A G A G G G G G A G A A G G A A G G$ C GAAGGGGAAGGAGCCAGAAAACCAAAAAACCGGCCGGAAAA G GAAAAAAAGGGAGAGAGCCGGGGAAAAAAGAGAAAAAGGAG CAAAGAAGACAGAGGAGGAAAGGGGGAAGGCCAGAGCACAGAA GAGGAAGGAAGAAGCCGGGGGGGGAAGGAGAGAGAGGAGGAA G G G G A G G G G C A G G G G G A A G GAAAA A A A CAAAAA A G G CA G G A G A A GGAACCTTAAAAAACCGGGGAAAAGAGAGGCAAAAA GAAA A A GAAACCCAAACAAAAGAAAGGAAAGGAACCACGAAGAAAA GGCCAAGGGAAACCGGAAGGACGGAAGAGAAGCCCAGAAGAC A GCAGAAAAGACAGCCAAAAGGCCGGGAAGGGAAGAGGAGAA G G G GAA $A \operatorname{GCAAA} G G A G G A A A A A A A A A A A C C A A G G A A G G C C G G$ GGACAGGGCGAGAGGAAGACAGAGAAAGGAGCGACCCACCAA GAAAGAGAAGGGAGCCGGAAAACAGGAAGGGGGATTGAAAAA $C C C C G G C C G G A A G A A A C C A A A A G G A A A A G G A A A A A A A A G B A A$ A G G GATAAGAAAAGGAGAGGGGAAAAGGGGAAGGCCAGAAGG G G G GAGGGAACCGGGAACGGCCGGAAGGAAGGCCGGAAGGAA $A C G G A A G A G G G G A A G G G G A A A A G G C C A G A G A A A G G A G A A A G A$ A A A A G G GAATAAAAGAAAGGGGGGAGAAAAACTTAAAACCGG A A GAAAAAAAGGGGAGACCCGGTTAGAAAAAAAAGGGGACAG A G GAGAGGGGCGCCGGAAGGGGGGGGGAAAGGAAACAAGAAT GAGAAGAAAAAGGAAGAAAAAGGGAAAGAAATGGGAA
AAAGGGAAAGCGGAGAAGAGGAGGGGGAACCGGGGGAGCGA $A G C C G A A G C C A A C C G A A G G G C C A G A G A A A A A A A A G G G G A A G G$
 G GAAAAAGAGAAAAGGACGAGGCCAAAAGGACGGAAAATTGG G G G GAA $\operatorname{A} G A A A A G A C C G G A A C C A A G G A G G A C G A G A A C A A A T T$ AAAACCGGAAGGAAAAGGAACCAAAAGAGGAGAGGGGGCAGA
 $A G C C C A A G A G A G A A C A C C G G G G C C A G A A A G A G G A G G G G G G A A$ A A A A G GAAAA $A \operatorname{A} A A A G G A A G G A A G A C G G G G G G T T C A A G A A G G$ G G G GCGAAGGGAGGGAAACGCCAAGGGGAGGGAAGAGAAAAA
 GAGGAACAGGGGCAGAAGGGAAAAAACCAAAAAAGGAAAAGG A A G GAGACAGGGCCAGGGCAGAAGGGGAAGGAAAAGAAAGAG G G GA $A \operatorname{GA} A A A G G G G G C A G G G A A G G G G A A G G G G A G G A G A C C C C$ CAAGAGGAAGAGACAAAGAAAAAGAGGAAAAGTTCCAGCCGG
 G GAA A G G G A A A A A A G G GAGAGAGGAGACAAAAAAATGGAGAA AAGGAAGGAAGGGGAAAAAGAAAGAGAGGGAGACTTGGGGAG G G G G G GAA A G G A A A A CAGGGCGCCGGAACCGGGAAAGAAA GA A A G A A GAC GAGAACAAAAAAAAGGAAATACAAAGAAC GAACC G G G GAA A GCCGGAAGGGGCCAAGGGAAGAGAAGAAAAAAACC $T \mathrm{~T} G A A A G G A A G G G G G G G G G G A A G G A A G G A A C C A A A A A G G A G G$ GACCACGACAGGGGGAAAAGAGAAAAAAAAAAGGAAAAGAAA C CAA $A \operatorname{GAA} A A A G G G A A G C G G A G G G A G A G A A A A G G G G A G A G A A$ A A A A G A G G A GA A G G GAACAAGGAAAAGGGGAGACGAACAG G G GAGGAGACAGACAACCGGGGGGGGAAGGGGAAGGAACAAAGA

C CAA G GCCAAAAGGAAAAGGACAAGAGGAAAAACGGAGGGGA

 G G G GAA A GAGGAAAAGGAAAGAAGAGGGCAGACCACCCGAAA A A A A A A A A G GAA $A \operatorname{GGGA} G G A G G C A A G A A A A G G G G G A C C G G G G$ ACAAAGAGGGGAAAAGAAAAAGAAAAGGGGCAGAGAGGAGAG A GCC C A A G GAGGGGGGGGAAGGAGAGGAAGAAGAGGGAAAAA AA $A G G G A A A A A A G A A A A C A C A A G G G G G G A G A A A A C A C A A G A C$ A A $\mathcal{A} G G G G G G G G G C A G A A A G G G G G G G A G G G G A G C A A A A A A A G G$ $C C G A G A G A A A A A A G A C A A G G G A A G G G A A G G A A G A A A A G A A G G$ GAGACCGGGGGGGAGAAAGGAGACGAGAGGACAAGAAGAAAA A A GA $\operatorname{A} G \mathrm{G} G C \subset A G A G C G G A G G G G A G A G G G C C G G G A A G A G G A G G$ A GAGAGGGGGAAGGAGGGACGAGAAAAAAAAAGGAAAACCAA A A A G A A A G A A GGCGGACCACAGGAGAAGAAGGCCAAAACCAA G GAAGGACAGACGGGGAAGAGGAAGGGAGGCCGGAAGGAAAA ACGGGGAGAGGAGAAAGGTTAGAAGAAGAAAAAAACGAAGAA GAAGGGCCCCGGAAGAAGGAAAAGGGCAGGGACCAAAAAAGG $A A G G A G G G G A A A A G A A G G A A A A G G A G G G A A A A G G G G A G A A G G$ $A G C A G G A A A G G A A A G G G G A A A G A A A G G A A A A G C C G G G G A G A G$
 AAAAAAGGAAAAGGGAAGAAGGAAGAAGGAGAAACAAAAAAG A G G G G G G G A A A A A A A GAA $A \operatorname{AGGGAAGGGGGGAAAACCAGCCCC}$ AAAAAAGGAGAAGGCAAAGGAGAAAAAAAAAGAGGGGACCAG
 A A G G G A A G A G G G G G A G G G G G G A G G A A G G A A A G C G A G G G C C A A AACCAAAGAAAGCAAAGGGAAAAGAACCGAGGCCAAAAAAAA C CAAAAAAAAAAGAGGAAGAGGGGAGAAAAGGAAAAAAGGGG GAAACCAGACGAAGCCGGCCAGGAAGAAGGAGGAAAAAGGGA A G G G GACCAAAGAGAAGAGACCAAAAGGGGAGGGCAAGAGAC A A A A A A A A A A A A G GAA $A \operatorname{AGAGGGCCCCGGAAGAGGGGGGAACA}$ A GAGACAGGAAAAAGGAGGGGAAGGACCGGAAGGAAGGAGAA AAGGCAGAGGAGAAAAGGAAAAAAGGAAAAAAAAGGGGGGCC G G G G G GCC G GAA A GAACCGGGGGGAACCGGAAAAGGGAAAAA G G G G A A C C G GCCCC G G A A G GAAAAGGAAGGCCTTAAGGACAA G G G G G G A A A A G G A A A A A A G GAA A G A A G G G G A A A A A A G G A A G G G G A A G G G G G G A A G G C C G G A A C C G G G G G G A A G G G G A A G G G G G G AAAAGGGGGGAAAACCGGGGGGAACCAAAAAACCGGGGAAAA A A A A A A A A A A A A A A A A GGGGAACCAAAAAAGGCCAAAA G GAA A A G G G G A A G G A A A A A A $\mathcal{A} G G G G G A A G G A A G G G G A A G G G A A A G G$ A A A A A A A A A A A A G G G G A A A A A A G G G GAAAAAACCAACCGGCC G GAAGGGGGGGGAAGGAAAAAAAAAAAAGGAAAAGGCCAAAA C CAA $A \operatorname{GAA} \operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A A A A A A A A A G G G G G G G G G G G G G G A A A A G G$ AACCAAAACCGGGGCCGGAAAACCAAAAGGAACCGGGGCCGG A A A A G G G G A A A A G G G G C C A A A A A A G GAAAAAA A G G G G G G G C C
 A A A A G G G A A G A G A A A A A A A A A A A A A GACCCAA G G G G G G G GAA G G G G A A G G G G G GCCAGAAAAAGGGCGAAAAGGAACCGAGGAG G G G GAAAAAGGGCCAAAAGGAAGGAAAAAAGGAAAAGAAAAA A A A A A A A A G G A A G G G G G GAAGGAAGGAAAAGGGGCAAAAA G $\mathrm{A} A$ G G G G A A G G A A G G G G A A A A $\mathcal{A} G G G A A G G G G G G G G A A A A G G A A G G$ G GAAAAGGGGAAGGAAAAAAAAAAGGAAAAAAGGAAAAGGGG $G G A A A A G G A A G G G G G G G G A A A A A A G G A A C A A A G G G G G G G G G G$ A A C C A A G G A A C C C C G G G G C C A A C CAAG GAAGGGGG GAAAAAA G GAACCAAAAAAGGAAGGGGCCGGAAGGGGCCCCAAGGGGGG
 A G C A $\mathcal{A} G G G G G G G A A A G A G G G G G G G G G A A G G G G C C A A A A G G C C$

 GAGGAGAAAGGAGGAAGACAAGGAAAAGAAAGAAGGAAACTT

GAATGGCAAGAAAACAAGGAAAAAAAAGGGGGGGGGAAAAAA A A G G A A A A A A G G G A A A G GAAA A CAGGGGCCGGAAAAA GAGTT CAGGGGCAAACCCAGACCAAGGGGAAAAAAGGCAGGAAAAAA G GAAGGCAGGGGAAGGCCACAAACGGAAAATAAGAAGGGGGA GACAAGAACGGAGGAACAGGAGGATTGACCGACCGGAAACGG A A A A G G G G A A C A G GAGAAA $A \operatorname{A} A A A G A C G G G G G G G A A A A C A G G C$ A GAGAGAGCAAGAAAAGGGGGGGGAAGGGAGATTAGGGAGAA G GAAAGAGAGAGAAGGGGAAAAAAGGAAGGAAGCCCAACCAA A A A G A GCAA $\mathrm{A} A \mathrm{~A} G \mathrm{G}$ A A A GAAGGGACATAGGAACCGGAAAACC $C \subset A A A C G G A G C A A A G A A A C C G G G A G A G C A G A G A G A A G A A G C C$ A GACGGCAAAACGGAGGGAAAAGGGAAAGAGGGGAAAAAGAG GA A G A A G G G G A A G G A G A A A A A A G G G G G A G A C A G G A A A G A C G G
 CAGGAGAAGAGAAAAGCCAGGAAGGAGGAAAAGGGGAAAACC C C A A G G G G A A G G G G G G G GAAGGAGAGAGACGAAAAA AAAA G G $A$ G GAA $A \operatorname{G} G \mathrm{G} A A A A A A A A G G C C G G G G A A C C G G G G G G A A G G A G G G$ AACCCCCCAGAGCAAAGGAAAAAAAAGGGGAAGGGGAAGGAG A A A G G A G G A A A A G A A G A GAGGGGGGAAGAACCAAGGCAGGGG AAAAAAGGCCGGAAGGAAAAGACCAAGGAAAAAAAAGAGGAG T T G G G A A A A A A A A A C CAATA AC GAGAGGAAAAAACCGGGGGA $C C G A A G A G A A G G A A G A A T C C C C G A A G G G G G G G A A A G G G A G G A$ AAAACACACCGACCGGAGGACCAAGGGAGGAAGGGGGGAAAA C CACAAGAAAGGCAGAATAGGGGGGGGGAAAAGGGAGGAGAA A ACAAAGACCGGGAGAAGGGGGGAGGAAGGGGGGAAAAAAAA A A A A C CAA A G A A A A C CAA $A \operatorname{AGGGCCGGGGCCAAGGAAAAGGAA}$

 A A G A A GAA $A \operatorname{GGGGGGGAAAAGAACCGAAAGGGGAAGGCCBAGG}$ G G G A A A G G G G G G G A A A A A A G G G A C T T G A A A GAAAA G GAAAA $A$ G G G A A A G G GAAAAAACACAAAACCAAAGGGGGGGGGGGAGAG C A G G G G G G A A G A G A A A A G A A G A G A A C G G C A A G C G G A G G G G A A G GAACCAAAAGGGGCAAAGGCCAAAACCGGCCCCAAAAAAGG A A A A G GAACCGGTTCCGGCCAAGGGGGGAAAAGGGGG
G G G A A A A A A G G A A C C G G G G G G G G A A G G G G A A G G G G G G A A G A A G G A A A A A A A A G G G G G GAA $A \operatorname{AGAAAAGGAAAAGGAAGAAAGG}$
 AACCAAAAAAGGAAGGGGGGGGCCCCGGAAGGGGAAAAAAAA A A G G G G T T G G A A G GAAGGGGAAAAGGGGCCAAAAAAAAAA G $A$

 $G G A A C C A A G G A A C C G G G G A A A A A A A A A A A A C C A A G G G G A A A A$ A A C C A A A A G G A A A A G G G G G G A A G G G G G G A A G G G G G G C C G G A A G GCCAAGGAAAAGGGGAAGGGGCCAAAAAACCCCGGAAAAAA G G G G A A G G G G A A G G G G A A A A A A G G G G G G G G G G A A G G G G G G G G $G G A A G G A A A A G G A A G G A A G G A A A A G G A A A A A A A A G G C C G G G G$ G G G G A A C C A A A A G G A A G G A A G G A A G G G G G G G G A A C C G G G G G G C C A A A A G G A A C C A A A A G G G G A A A A G G G G A A A A A A A A G G A A A A A A C C C C G G G G G G T T G G A A G G G G A A G G G G A A G G A A G G G G G G C C G G G G G GCCGGGGGGGGAAAACCGGAAAACCAAAAGGGGAAAA A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A C C G G A A A A G G G G G G G G G G A A G G A A A A G G$ G GCCCCGGGGAAGGGGAAGGGGGGAACCGGGGAAGAAAGGGG G G G G G G A A A A G G G G G GAAAAAAACCAAGGGGCCGBAAGGAGAA C C A A A A A A A A C C G G A A T T A A A A G G G G G G C C G G A A G G A A G G G G G G G GAAAACCCCAAGGAAGGAAGGGGGGGGAAAACCAAGGGG $A A C C G G G G A A C C G G A A G G G G C C G G G G A A G G G G G G A A A A C A A A$ G G G G G G G G C C A A C C G G C C A A G G A A A A C C G G G G G G G G G G G G G G C C C C C C A A A A A A A A G G A A G G G G G GAA G G C CAAAA A GAAAA $A$ A $G G A A A A G G A A C C A A G G A A A A G G A A G G G G G G G G C C A A G G G G G G$ $G G G G A A A A C C G G G G G G A A A A C C A A A A G G A A A A G G A A A A C C G G$

A A A A G GAACC $A \operatorname{A} A A A G C C G G G G G G G G A A A A G G G G C C G G G G A A$ G G G G A A G G G G G GAA $A \operatorname{G} G A A A A A A A C C G G G G G G G G A A A A G G G G G G$ G G G G G G G G A A G G G G A A G G A A G G G G G G G G A A G G C C A A G G G G G G G GAAAACCGGAAAAAAGGGGGGAACCAAAAGGGGGGAAGGGG $C \subset A A G G A A G G A A C C A A A A G G A A G G G G G G A A G G G G A A G G G A A A$ G G G G A A A A T T G GAAC CAAGGGGAACCAAAAGGGGCAGAAAAA G G A A A G G G G G A A A A A A C A G A G G A A G GAAA G G GAAAA $A$ A G G A A G G G G GCGAAGGGAGGGACGGAAGGGGGGAAGGGACCCCGGGG G G A G A A C C A G C A G G G A G G G G A A G G A GAGGAGGGAA GAGA GA A AGGAGAGGCAAAGAGGGGGGAAAGAAGGGAAAGAGGAAGAAA G GAA $A \operatorname{GA} \mathrm{~A}$ G GAAGGAAACGGGGGGAAGGGGAGGGGAACAACA G G A A G GAAGAAAAGGGGGCCAAGGCCAAGAAAGGAGAACAAA A A A A G GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAAAGGGCCAAAAAAAAAAAGAAGGCCAAAT ACAGAGCCGGAGAAGAGAAAAAGGGGGAGGGAAACCGGGBAA G GGGCAACCAAACCAAAAGGAAAGCCAGAAGGAAAAAAAAAA G G G GAA A GAAAGGAGACCGGAGAAAAGGCCCCAAGCGAGGCC
 C CAGAAAAGAGGAAGAAAAAAGAGAAAAGGGGAAAAGAAA GA TAAAGGAACAAAGGGGGAGGAAAGGGAACCAAAAAAGGGGGG GAGGCCGACCGAAACCAAAACCAACAAAAGAAGGGGGAAAAG G GAAGGAAACAAAAGGAAAAGAGAGACAGGGGGGAGAGCACA G GCCAGCAAAAGGAAAGAAAGGACGGGGAAAAAAAAAAAAAA A A G G A A A A G GCCGGCCCCAAAAGGGGGGAAGGGGGGCCAGAG C CAAGGGGGGCCCCAACCCGAAAAGAAAGAAACCAAGGAAAA GAAAAACAGGGGAAGGCCCCCCAAGGGGGGGGGGAAAAGAAA AAAAGGGGGGGGGGAAAATTGGGGAACCAAAAAAGGAAAACC AAGGAAAAGGGGAATTAAAAAAGGAAAACCAAGGCCCCAAAA A A G GAAGGAAAAGGGGAAAAAACCGGGGCCTTAAAAAACCGG A A A A A A G G G G A A G G A A A A G G G G A A G G G G C C G G A A G G G G A A G G $G G A A A A G G A A G G G G G G G G G G A A A A C C G G G G C C A A A A A A G G G G$ C C G G G GCCCC G G A A A A C C A A G G G G G G A A G G G G G G G G G G A A G G A A G G A A G G G G G G G GAA A G G GAA $A \operatorname{AGGGGGC} C A A G G A A C C G G G G$ G GAA $A \operatorname{GCCA} A G G G G C C A A G G G G G G T T A A C C A A C C A A G G A A G G$ A A A A A A G GAA $A \operatorname{Ag} \operatorname{G} G A A A A C C A A A A A A G G G G A A G A A A A A A C C C$ C CAACCAAGGAAGAGGAAGGGGAAAAGGGGGGGAAACAAAAA CAGGCCAGAAGAACAGAGACAAGGAAGGCCGGAAAAGAAAAG GAGGCCGGAACCGGGGAAAACCGGGGGGGCGGAAAACAAAAA A A A A A A G G G GA G G G GAGGAAAAGGAAGGGAAAGGATCCAAAA G G G GCCAACCAGGAGGAAAGGAGGAGAAAAAGGGGAGAGGCC A G A A A A A A A A G A A A A GCAACAGACAGAGAATTAA GAAA G GCC G G G A A GAGCCAAGGGGCCAAAAGGGAGACCAAAAGGCCAGGG
 A A A A A A G G G GAGGGGGGGGAGAAAAAGGGAGGGGGGAAAAAA G G G GAA $A \operatorname{GCCA} A A A C C A A A A A A A C G C G C C A A G G A A A A G A A A$ G GAA A G G G G GCCAAAAAGAAGGGGGAAAGAAGGAGGGAAAGA A G A A A TA $A$ G A A CA $A G G A G A A C C G G G G A A A A A A C C A C G B A A C A$ GAGAAACCGGAGAGGAGAGGAACCGGGGAAAAGGAAAAAAGA
 AACCAGGGAAAAAAAAAGCAAGTAAACACCGGGAAAGGCCBAA
 G GCAAAGGGGAAAAGAAAGAGAGGAAAAAGAAAAAAGACAAG G G G GAATTAGAGAAAGAGACAACCCCGGAGCCGGAAGGTAGG A G A A A A A G G G G CA $A$ GAGAAAAGAGAGGAGGAAAAGA GAA GAAA G G G GAAACAAGGGAAAAAAAGGAGCGGAAAAAAGGAGGGGGA AAAAGGAAAAAAAGAAAAAAAAAACCGAAGAGGAGAACAAGG G GAAGGGGAAGGGGCCAAGGGAGGGAAAAAGGGGAACCAGAG A GAGAAAGGGAACAGAAGGAGGGGAGAACCGGAAAGTXAAAG $G G A A A A G G A G A G G G A A A A A A A A A C C C A C A A G A G G G G A A A C G B$ GGGGAAGGAACCGGGGAAAAGGGGGGCCGGAAAAGGAGAAGA

G G A A A A A A A GA A G GAGGGGGGGAAAGGGAAGAAAGAAACAGB
 G G A A A A T TAAGGAAGGAAGGAAAAGGAAAAGGAAAAAAGGGA TAAGGGGGGGCAACGGGAGGCAAAAGAACAGAGGAGAAACAG G G G G G G G G GAAAGGAAGGAAAACGAACCGAAAGAGAAACCCC C CAGCCAGAACAAGGGTTAAAAAAAAGGGGCCGGAGCAGGGG G G A A G G A A G G G G G G G G A A A C G G A A GAGGAAAAAAA G GAA G G A AAGAAAGAAGAACCAAGGAAGGAAAGAGGAAAAAGGGGAAAAG G GAGGCAGGGAAGCAAGGGGGGAAGGAACCGGGGAAGGAAAG G GAGAAAGCAGGAAAAGGAGGGCCACGAAACCAAGGGGAAA G GACCAGGAACGGCCCCGGGGGGAAGGGGACCCCCGGGGAAGG AA G GAACCAACAGGAAGAAGAAGGAGAAAAAAGGGGAAGGGG

 AA $A G A A G A G A C C A A A A G A G G G G G G C C A G A A G G A G A A G G G G G G$ G G G G GAAGGAAAAACCGGGGGAGGAAAAGGAGGGAAAAGGCA A GAA A GACAA A A GGGAAAAAAAGAAGGAAAGGAAGAGAGAACA G G G G G GCCGGAAGGAAGGGGAAGGGGGGGGAAAAAAAACCAG GAAAGGCAAGCCAGAGAAGAGGTTAGGGGGGGAAGGCCAGAG GAAAGGACGGAAAACCACAGAACCGGGGAAAAGGGGAAGAAA AAAAAAGGGGCCAAGGGGGAGGAACCAAAAGAGAGAAAAAGG A A C A A A A G G G G GAGCAAAGGGGGGGGAAAAAAGGCCAAAACC ATAGAGCAGAAAGAGGGCGGCCAAAAGGCCAAAACCGAGGCC A GAGGGAAAAGGAAGGAAGGAAAGAAAACCAAGGCCAAAGAA G G G GCCGGGGGGAAGGAGAGGACAGAACAAGGGGAGAGAAAG C CAAGGAAAACGAAGAGGCAAAGAAAAAAGCAAAAAAAGAAA $C C G G A G G A A G G G G G A C G G A A A G G A A G C A C C G A G A G G A A G G A A$ AAAAGGGAGGGGAAAACCAAGAGGAAAAGAAGCAGAAAAGGA GAGGAAGAAAAAGGAGAGAAGGCCAAAACAAAAAAGAGAAGB CCGGCAAACCGAAGGAAAAGAAAGAGAGAATTGGGGCAAACA AAACGAGACAGAGAGATTCCAAGACCGAAGAGAAAGAAAAAA AACCAAGGAAGGGGAGAGGGGGCCACGGCCGGAAAAGAAAGA GAACGAACCACAAAGGGGCCCCGAGGCAGGAAACAGA
G GAAGAGAGACCAAAGAGAGGAAGAGGGGGGAAAAAGGAAG $A G G A G G G G G G G A A G A G C C G G C C G G A G G G G A A G G A A G A A A A G G$ ACAACAGAGAAGAGGGCCAAAGAGCCAGAGAGGGAAAACABG GAGAAGAAAACCGGAAAGGGGGCCAAAGGGAAAGGGCCCCCC A A GAGAGGGAAAAGAGGGGGAAAGGGCCGGGGGGCCGGGGCA C C A G G GCC G GAGAA $A \operatorname{A} A A A G G A A A C G G G A G G G G A G A A G G A A G G$ G G G G G G A A G G A A G A A A G G G GCCGGGACCAGGGCAA GAACCCC AACCAAGGAAAAAAAAAAGGGGGGGGGGGGAGGACAAACACC C C G A G A G GCC G GCC G G A GAAA G GACAGAAACCAAA G GA G G G G AAGGACGAGACGAAAAGGGAAAGGAAGGGGAAGAGGGGGATA A A G G G GAGGAAAATAAAAAAGAGGAAGGGGGGAGCAGACAGG A A C C G G G G A G A A A A G G G A G G G A G A G G G G C C A A A A C C C C G G C $C$ A A G G G G A A A G A G A G G G G G G G A G G A C A G G A G G A G A A G G A G G A A G G G G G GCCAGAAACGAGGAAAAGAGGGGGGGAGGGGAGAAAA GAGGGCGGAAGGAAAAAGAGGGAAAACCGGCCCAGAAAAAAA $C C G C A C G G A G A A G G G G G G A A A C A G A G A A C C A A A A G A G G G G G A$ A GAA A G G G G A A GAA A GCCA GCC G G G G A GAGGGGGA GAGAA G G GAAA A A $A \operatorname{A} A A \operatorname{A} G A G C G G G G G G G A G G G G G G G A A G G G G A A C C A A$ A GAA $A \operatorname{GG} \operatorname{GAAA} G A A G C A C C A A A A A A G G G G G G G A G A A G G G A A G G$ GAA $A \operatorname{GAAA} A G G G A A G G A A G A C C G G A A A A A G G A G A A G G G G G G G$ A A A G G G G G A A G G G GAGAATXGGAAGGGGGGAAGAAAAAGAGG A A G G G GACGGAAGGAGGGACGACGAAGGAACCGGACGAGGAA G G G G A A G G G G A A C C A A A GAGGGGGGGAAAAAAGAA G GAA A A A G G G G G A G G G GAG G A A GAAAAACAGGGGAAAAGGGGGGAAAGAA G G G G G G G A G A G A A C A GAC G GAA A GACGGAAAAA G G G G GAAAA A G GAGGGAAGAAGAGAGAGGGAAGGGGGAAGCCGAAGAGAAAG

A GAGGGGAGGAAGGAGAAAAGGGGAGGGAAAAGAAACAAAGA G G A A G G T T GAA $A$ A $A \operatorname{C} G G G G A A A G G G G G G A C G A G G A A G B A A A A$ G G G GCAAA $A \operatorname{AGGGAAAACAAAAAGAGAGGAACABACCGGGGAA}$ $C C G G C C G G G G A A A G A G G G G G A C G G A A G G A A G G C C C C A A G A C C$ $C C G G A G G G G A G G G G G G G A A G A A G G A A A A G G A A A G C C G G C C C C$ G G G G G C A G G G C C C C G G G G G G A A A A G G G G G G A A G G G G G G C C A A G G A G A A G G A G G G G A C C A A G G G G G G A A G G G A G G C C A A A G A G G G GAAGCCAAGGGGGGACGGAAGGGGCCGGCAGACCAAGGAACA ACGGACAAACAACCGGAAAAAAAGCCGAAAAAAAGAAGGGGG G GAGGGGGTTAACCGGAGGGGGGGGGAGGGGGGGAAAAGAAT
 A A A G A A A A A A A A A GCCGGAAAAAAAAAAGGAAA GAAAAAAAA G G G G A A G G G GCCAA C G G G GAAAAACCAAAAAGACAGAAGGGGGA
 A A G A G G G G G A T T A GCC G GAAGAGGAGAACCGGGGGGTTAC G G A A A A A A A A GAGAGGAGAAGGGGAAGAGGAAAAGAAAAA GAAA G GAGGAAAAGGGCCAGAGGGAAAGAGGGGGGGAAGAGACCAA GACGGGGAGGGGAGAAAAGGCAGGGGAGGGGGAAAAAAAGAT GAAGAAAGAAGGAAGGACGAGGCCCCGGAAAAAAGGGGAAAB GACCAGCCAAAGACAAGGAACCAGGGGGAGAAGGCCGGGGGG G GAAGGGGAGACGCGGGGACAAGGGGAAAGAAGGAAGGGACC C C A A C G G A G G G A A C A G G G G G G G G G A A A G G G A A G G G A A G G G A A GAAAGGAAGGAACCGACCGGAGAGGGAAGAGGCAAACAAAAC C C G G G A A A GAAAGGCGAGAAGAGAAAAAGGAAAAAAGGAAAA C C A A G A A G GACCCCGGAGGGCAGAAAGGGGGGAGAGACAAAG
 G GAAAAAGGAAAGGAAGGAGAAAGCCGGAAGGGGCCGAAAGA A A G G A A G G G G A A G G A GCCAGGAGACCAGAGACGGGAGGAA G G A G A A A A A A A A A A G G G A A C G A A A A A A A A A C C GAA GCC G G C C A A AA $\operatorname{A} G A G G A A A G A A A G G A C G G A G A A G A G A G G G G C G G G A A C C A A$ C A A A G A G G A A A A G G G G C C A A A A G G A G G G G A A A G G G A C A G A A A G G G GAA G GAAAAAAAAGACCAAGAAAGGAACGGAGAAAAAAC $C \subset G A A G G G A G G G A A A C A G A A G G C A A G G G G G C C C C G G G G A G G A$
 CAAAAGGGAAGGAAGAAATTGGGGAGAAAAAAAAGGAGAAGAG G GAGGGACGAGGCCGAGAAAGAGGACACAGACAAGGAAGAGA G GAGCAAAGGAAAGGGGGGGGAGAGAACAGAAAAAAGGAGAA AAAGGACAAAAAGGAAAAGAAGCCAACGAGCGGGGACAAAAG G G A G A A A A A A A G A G TAAA $A$ A A GAGATTAAACAACCGGCAAA G G A A G G T A C C G G G A G A GAAAA A A G GACCGGGGGAGGAGGACCAT AAGAAAGGAAGGAAGGAAAGAAAAGGGGAAGAACAAAAGGAA G GAGACGGAAGGGGGGAGCCGGAAGGAAAAGGAAGGGGAAGA G GAGAAAGGGCAGGAAGGAGGAAGCCAGAAAAAAGGGAAAAG G G G G G A G A G A A GAGAGGAGGAAAGGAGAAAGGAGGGCAAAAC A A G G A GCCGAGGAGAAGGGGAGGGGAGAAAAAAAGAAAAAGB A G G A G GA $\operatorname{A} G \mathrm{G} C \mathrm{C}$ CAAAGCCGGAAGGGACCGGAAAAGGGAAAAA C C G G C A T A A A A G A A G A GAA $A \operatorname{GAAAGGGGGAGAAAAGGGGAGGG}$ G GAAAAGAGAAGAGACAGAGCCAAGGCCGGAAAAGGCCAAAG G G G G G A A G G G G G G G GAA $A \operatorname{GAA} A \operatorname{AAA} A G C C G G A G G G G G G G A G G G$ GAAGATGGGGGAGAGGGGAAAACCCAAAGGAGAAAACCAGAG G G G G G A G A A A A C A G G A A G G G G A G G G G G G G G A A A A G G A A A A G A GGAGAAAAGGAAAACCGGGGAAAAAAAAGGGGCCGGGGAAAAA
 G GAAAAGGGGGGGGGGGGGGAAAACCGGGGGGCAGGAGGAGA GAGGGGGACCAGGAAACGAAAGGAAGGAGGGGAACACAGAGA
 ACGAGAAAAAGAAACCAAGGGGAAAAAAAAGGCCCCATGAGG A A C C A A G G A A G G CA GAAGGAGAGAAGGGAATAGAGAGGAGAA AAAAAAGAAGAGAGGGAAAAAAAAGAAAAGGAGAGGGATTCC

C CAGGGCACACCCCGGCCGGGGGGAACCGGAAAAAAGGGGAA G G GAG GA $\operatorname{A} G A C C A C G G A A A A G G A A G A A G A A G G G G G B A A G G G G$ $A G G G A G G A A G A A G G G G G G A A A A G G A G A G A A G G G G C A A G G G G G$ G G G GCCGAGGGAAGAAGAAAGGGGAGGGAGGCATCCGGAAGA AAGGAAGACCACAGAGGGGAGGGGCCAACCAAGGAGGGGGGA G GAA A GCAA $A \operatorname{AAGGAGACAAAAAAAGGGGAACAGGAGGGAAAG}$
 $G G G A A A G G C C C A G A A G A A A G G A C C G G A A G A A A G G A C A A A C A G$ G G A A G G G G C C G A A G G A G G G G G G A A C C G G G G G G A A G G G G C A A A
 G GACAGGGAAGAGAGGGAAGGGGGGGAGGGGAGAA$G G G G G G G G$ G G A A T TAA $A \operatorname{GAACCGGAAGGCCGGGGACGGGAGGGAAGGGGG}$ A A A A G GCCGGAAAAGGAAGGAAGGGAGGAAACAAGGCAACAA
 A A G GAACCAAAACCGGAAAGAGGGCCAAAGGGGGGAAGGGGG A A A A A A G GA G GAC GAGAAAGGGAGAGAGAGGGAAGGAAGAAA G G G GAA A G G GAA $A \operatorname{AGGGGGAAAAGGCCAAAAAAGGGGGAAAAA}$ G GCCGGAAGAATCCAAGAGGAGGAAAAGGGAGGGGAAAAGGG AGGAGAGGGGCCAAAACAGGGGAAAGAACCAAAGAAAGAGAG A A G G A A G G A G G G G G A A C A A A A A A G G A GA G G A A G A A G A A G G C A G GAAAACCGAGAAGAATTAAAGCCGACCAAGGAAAACAG GAA G GAACCGGAAAGGGGGAAGAAAGAGGCCGAGGGGAACAGGBA G GAGAAAGGAAGAGAGAAGAGAAAAGGGAAGGGGGAGAAAAA G G G G G G A G G A A A A A $A G G C C G G G G G G G G A A A A G G A A A A A A G G A A$ G G G G G A C G A A A G GA $A \operatorname{A} A G A G A G A G A G A A G G G G C G G A G G G G G G$ A G GAGGGGAAGAAGGGACAGCCAAAAAAGGCCGACCAGGGAG
 G G G G A G A C G G A G G A A A G G A GA G G G C A C C G G G G A G G G G A G G G A GAGAGGCAGACCGGGAAACCGGAGGCGGGGAAGAGGAGAGAA AAGGGGGAAAGGACACACGAGAGAAAAAACGAAGGAAACCBG G G G G A A A A $\mathcal{A} G G G G G A A A A G G C C A A A A G G G G C A A A A A G G B G A A$ G G G G A A C C A A A A G G G GAGGGGGCCGGCCGGAAGAAAACAAAA $A A C C G G G G A A G G G G C C A G A A G A A G G G G G A G G G A A A G G$

 A GAGAAGGAAGGACACGAGGAGAGAGGGACGGGGAGGAAAAB AAAACCAGGGAAAAAAGAGAGGGGGGGGGGCCGGAACAAGAA GAAGGAAGAAGGGACCAGAAAGAAGGCCAAGAGGGGAAAAAA
 C C C C G A A A A A C A G G G G A G G G A A A A A A A G G A G G G G G G G G T A G G $G G A A A A G G C A A G A G G G A A G G G G G A A A A G A A A A A C A G C A G A A G$ A G A A G A A C A G A A A A G G G G G A G G A A A G G G G G G G A G A G A G G A A A GAGGCAAAAAGAGGAAAACCACGGAGGGAAAAAAACAAAGAC A A G A A GA $\operatorname{A} G A A A G G A G C A G G A A A A A A G G G G G G A G G G A A G G C C$

 $G G A G G A A G A G G G G A A A A G A A A G A A G G A A G G A A G G A A A A C C A A$ $A C G G A A A C A A G G G G G G G G A G C C A A A A G A A A A A G G G G C C G G G G$
 G G G G A A A G A G G A C A C A G A C A A G G G A G G G G G G G A G A A A G G A G G C C G GCCGAAGGAAGAAGGAAGGAGCATAGGGGATAAAAAAAG G G G GA GAAAAAACCAGAAGGAAAAAAGGGGAGAACACAAAA G A A A A A G GAA A G GAACAAGAAGGAAAACCGGGGAACACCAAGA A AAA ACGGGAAAGAAAAAGGGGGGGGGAAAAAGGCCGGAGAA A GAGGAGGGGGAAGAAGGCCCCAATTGGAAGGAAGGAAAAAA GAAAAAGGGAACGGAAGAAGAATAGGCCAAAGAAAAAAACAC GA $A$ A $A$ A A $\mathcal{A} G G A G G G A A G G G G G A A G G A A A A G A A A A A A G G A G A A$ A G A G A A C C G G G G G G G G G G G GAAAAA G GAAAAAAAA AA G CA GA G A G G GAGGGGAAGGAAAAGGAGAAAAGGGGCCGGAAGGAAAAGA

A A A G G A G GCAAAGGGAGGCCAAGGGGCCGGAGGGCCGGACAA A G G G G G G G A G G A A A G G A A A G C G A GC C A A G GA G GAA G G G G G A A G G G G A A A A G G A GAGGAGAAGAAGGGGGGAAGGGGAAAA G GAAA G GACGAAAGGAAGGAAAAGAAAGGAAGGAAAAGGAGAAAAGA GAAAGGGAAACCATACGGAGGGCAAAGAGAAAAAAAGAAAAA AAAAGGGGAACCAAAAAGGAAAGGAAGGCGGAAAAAGACGAG AA GAA A A GAGCAGACCAGAAGGCCAAAAAGGGGAGGGAGAAG CAAAAAAAAACCAAAGAAAAAAAAAAGGGGGAGAACGGAAGA C C A A A A A A A G A G G A G G G G C C G G A G GAGAGGAACC G G G G G G A A G GAGGGGGAGGAGAAACAGAGGACAGGAGGGGGGGGGAGAAA G G G GAA A A GAGGAGAAAAGGAAAAGAGGGGAGAGGGAAAACC AACCGGGGGGAAAAAGGGAAAGCCAAAAAGAGGGAGAAGGAA A A A A A GCGGGAAAGGGAGAAGAGGCCAAGGGAAGGGGAGGGG GATACCGAAAGAGGAAGGAAACCCAAACAAGGGGAAAAGAAA AGGGAAAGAGAGAGAAGGAAAAGGAGAAAGCAGACAGGAAGA G G G GAACCGGGAGAAGAAGAAGAGACGAGAAAGGGGAACAAA A A A A GAAGAGGAAAAAAGACGGAGAAGAGGGGACCACACAAA GAAGAGCCAACCGAACAAAGAGCCGACCGGAGCCAGAGAGAG GAGGGGCCAAAAGGCAGAGGAAGGGGAGGGGGGGAAGGAGAG
 GAAGAAGGAAGGGGAAGGAAGGGGAACCAAAGGAAGGGGGAG AAAGAGCACACAAGGAAAGGGGAAAGGAAGGAGAAGAGAACC G G A A A A A A A A G A A TAGAAAACCCCGAGGAAGAGAAAGAGAAA AAAGAGGAGAAAGGGGCCGGAAAAGGAAGACACCBAAGAAAG A GAA A GAAAAAGGGAGGGGAGAGGGGAAGAAAATCAAGAAAA AAGGAAGGGGAGAAAAGGGGAGAGAGACAAGGACAAAAAAAA GAAGAGACGGAGACAAGAAAGGAAAGGGAAGATTCACCCCGG
 AAAAGGAAAAAAAAGGAACCAAGGAAAAGGAAAAAAAAAACC G G G GCCAAGGGGGGAAGGAACCAAGGAAAAGGGGAAAACCAC A A A A A A A A G G A A A A A A A A G G G G A A A A G GAAAAAAAAAACAAA AAGGAAGGAAGGAAAACCGGGGAAGGCCAAAAGGGGAAAAAA G G G G G G G G G G A A C C A A G GC CAAAAGGCCGGAAAACCAAAAGG A A A C G G A A A A A A G G G G A A C C A A G G G G G G C C G G A A A A A A G G A A AAAAGGAAAAGGGGCCAAAACCGGAAGGAAAACCGGAAGGCC
 G G G GACGGGAGGCAAGGGAGGAGAAAAAGAAAGACACACAAA G G G GAAAGGGGGAAGGAGAAAAAAAAGGAGGGAACAAAGGAC GAAGCCAGAGGACCCCGGGGGGAAAAGGGGAAAAAAAAGGGG A A A A A A G G G GCCAAAAAAAAAAAGGGGGGGGAAGGGGGAAA G G $G G A A A A A A G G A A A A A A A A A A C C A A G G C C A A A A G G G G G G C C G G$ C CAAAAAAGGGGCCCCCAAAAAAAGGGGGGTAAGGACCGGGG GAAAACGGGGAGAAGGAGAAAAGAGGGAAGAGAGGAGAGAAG A GAGAAAAGGGGGGTTAAAACCGGAAGGGGGGAAGAGAAAGG A A A G G GAA A GACAAACGGGAGGGGGGCCAAAAAGAGAATTGA
 A G GAGGGGCCAAAGCCGGGAAGGGGAAAGGGGAAGGGGAAAA AAGGGGAAGACAATCAGAGGGGGAGGGGGAGGAAAGGGAAGA AAACGGGGAAACACAAAAAAAAAAAAGAACAGAGAAAA GGAG A A A A G GAAGGAAAAAGAAAAAGAGACAGAACAAGAGCBAAAA A A GAGGGGAAAAAGGGGGAAAAGGAAAGAGGGAAAGGAAACA A GCCAAAAAAGGGGAAAAAAGGGGAAGGAAAAGGAAAAAAAG A A A A G G G G A A A G G G G A A A A G A A G A GAGGCCGGAGGGAAAACC $C C T T A G A A A G A A A A A A A T G A A G G G A A G G A G A A A G A C A G A G A G$ A GACCGGGAAAGCAGACCGGGAAAAACAAAAGGGAGACGGGG GAGAGAACAAAGGGCAGGCCGACCAGACAGGGGAGGGGGGGG $G G C C G G A A G G A G A A A A G G G A A A A A G A G G G G A A A A A G A A A A G G$ G G G G G G A A G G A A A C A G A A G A G G G G G G C C A GAA G G G A G G A A A $\mathcal{A}$ AAGGAACAGGAAGGGGAGGGGAGAGGACCCAGGAAGGAAACC

AAAACCGGGAGGGGGGAAAAGGGGCCGAGGAAAACCGGAAGA A ACCAAAAAAGAGAAACCCCGGGGACAGCAAAGAGAAAGAAA $A C A A G G A G G G A A G G G G A A G G G G A A G A G G A A G G G G G A A C G G G G$ G G GAA A G G G GAAGAAGGGAAAAAAGGAGGGAAACGAAAAAGG G GAGGGAAAAAGAAAAAAGGGGAAAAAAAACCAAAGACAAGA A GAGCAGGAAGGCAGGGAAAAAAGAACCAGGAGGGGAACAAA G G A A A A A G GA GACAAGCCGGAACCGAAAGGGGGAGGCCAAAA AA $A$ A C CA $\mathcal{A} G A G G A G G G G G G G A G G A A A A A G G A A G G G G G G A C A A$ A A G G G A A A A A G G G G G G A A G G C A A A A G A A A A G G G G A G G G G A A G GAAAAACACAACCGGAAGGAAGGACAAAAAACAGGGAGAGA AAACGGGGAAAAAACGAAGGCCCCGGAAAAAAGGGGGAAAGG GAAAAGGGGAGAACCCGGCCGGAGAAGGAAGGGGAGCCGGGG A GGACCAACAAGAGGAGGCAAAAAGGAACCCCGGAGAAAAAA
 A GAGGGGGAGGGGGAAGGAATAAGGAGGGAGAAGAGGGGGAA G GAAGGACCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGGG ACGGGGAAGGAACCGGAAAAAACCCCGGGGAAGGCCCCAAAAA
 $G G A A G G G G G G G G A A G G A A A A C C G G G G A A G G A A G G G G G G A A G A$ G G G G G G G G G G A A A A A A A G G G G G G A A G G A A G G A A G G G G A A G G G G AAGGAAAAAAAAGGCCGGAAGGGGAAGAAAAAAGGGGGGGGG A $G A G G G G G G G G G G A A G G G A G A G A G G A G G A A G A A A A A G G G G G G$ G GAGAGAGAGGAAAGAAAAAAGGAGGAAGGCCGGGACACCAG G GCCAGGGAAGGCGGGGGAGGGCAGGGACCGGGAA$G G G G G G G$ C C G G A A A A A A A A G GAGGGGAAACCAACAGAGAAAAGGAAAAG G G G GAAAAAACCACACAGCCAAACGAGGAACAAGGAAAATGG G GAGGGGGAAGGGAAAAAAAAAGGAAAGATGAGGGAAGAGAG A GAGAGGAGGAAAGCCAAGAGGGACAGGGGGGGAAACCAAAG A G G G G A G G A A A A A A A A G GAAGGCCGGAACCAAAA G GAAAAAC A A A A A ACCCCCCCCAAAAAACCGGGGAAAAAAAAGGGGGGAA A A G G G G C C G G G G A A C C G G A A G G A A G G G G G G A A G G G G C C G G G G $C \subset A A A A G G A A C C C C G G A A A A A A A A A A G G A A C C A A G G A A A A G G$

GCCGGAAGGAAGGAGGGAAAAGGCCGACCAGAGGGAAAAGG GAAAAGCCGGAAGGCAGGGGGGGAAAGGGGGGAAAAAAGGGG G G C C G G A A G A G A A A G G A A G A A G G G G A G G A G G A G GC C A A A A G A A GA A A GAAAAGGACGGAAGGGAGAAGAAGGGAAAGGAAAAAA G G G G G G G G G G G GAAAA A G G GAA A A C C GAAAAAA AA GAA GAC C C C G G G A C C G G G GA T G G G A A GAAAAAAAAAGAGGGGACAGACAA G G G G G A A G A A G GAA A GAGGAGGAGAAAAAAAAGGCC GAAAAA $A G A A G A G A G G G G G G A G G G G G A G G G G G A G G G A A G G G G G G A G A G$
 G GAAAA AAAAAGAAGAGGGAGGCCGGAACCGGAAGGGAAAAA AAAGGGGAAAAAAAGAAAAAAGAGAAAAACCCAGGGGGGGGG G G A A G G A A A A C C G G G G G G G G A A C C C C G G G G G G A A G G G G C A G G G G C A A G G G G G G G A A G G C C A A A A G G G GCCAAGGAAAAAA A GAA A G G A G GA $\operatorname{A} G A G G A G G A A A G G G A A A G G A A C C G G G G A A A G A G A A$ AGCCAAAAAAAGGGAAAGAGGAAAAACAGGAAAAGGGGAABA AACCGGGGGGAAGAAAAGCAGAAACCGAGGAGAACCGGGGAG G G GAAA A A GAGAAGAACCAGAAGGAAGGACAGAACCCAGGAC A G A A G G A C G A G A G A G G G G A A G G G G G G A A A A G G G G G A A A C C G A GAAGAGGGAAGGGGCAGGGGCAGGCCCAAGGACAGGCCAGAG C C A A A A A A G G G G A A A A G A G A G C A G G A GA G A A G A A A G G G G G G G $C \subset A G G A G G A A C A G A A G G A G G A G G A A G A G G A A A A G A G G G G A C C$
 G G G G G G G G A A A A G G G G G G A A G G A A A A A A A A A A A A G GAA G G A A A A A G A A A G G G A G A A G G G G A A A A A TAGGAGGAGAAA GAAACA $\mathcal{A}$ A GAAAATTGGCCGAATGGAAAGGAAAGCGAAAAAAGGAAAAG $A A G G G G A A G G C C G G G G G G G A G G G G A G C C A A A A G A C C A A C C A G$

CAGGGAAGAAGGGGGGAAAACAAAGGGGGGCAAAACCCGGTA AC GAAA A GAA $A \operatorname{AGGGGGACAACCGGGGCAGGGGGACAGAAAAA}$ A A G G A A A A A A G G A GAAGGGAGGGGGGACAACGATAAACAAGG G GAAA A A G GAGGGAGGGACCAGCAGGACAAAAGAAAGGAAAG A G GAGGACAGAAAGGGGGGGCAAAGGCGCCAGGAGAAAAAAG
 AAAAGGGGCCAAGGAAAAGGGGACGAAAGGGGGAAGGAAAGG GAGGGGAGGGAAGAGGAAACGAGAAGAGAACGATACGAAGGG
 GGCAGGAAGGCCAAAGAGGAAGAAAGGGGAAAGACCTTGGAA A GACAAAAGGGGCCGGAAAGAAGGAAGGAACCAAAAGAAAAG GACCAGGGGGAAAGAAGGCCAAGAAAAGGAGAAAAAAGGGGA $G G C C C A A G G A A A A A G G G G G G A A A A G G A A C C G G A G G G C A A G A A$ $A G G G A G C A G G A A G G A A G G A A G A A G G G G A G A G G G G G A A A A A G B$ A GAGGAAAAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGG A A G GAAAACCCCAAGGGGGGGGGGAAAAAAGGAAGGGAAAAA G G G G A A C C G G A A G G G G G G G G A A G G G G A A A A A A G G G GAAAA $A$ A G G G GCCGGAAAAGGAAGGCCAAGGGAAAAGAAGGGAGAACAA $G G A A G G A A G G A C A A G G A A C C A A C C G G G G A A A A G G A A A A C C A A$ C CAACCGGGGAAAAAAAAAAAAGGGGAAAAAAGGGGAAAAGB AAGGAAAAAAGGAAAAGGCCGGAAAAGGGGCCAAGGAAGAAA
 G G A A G G A A G G A A C C G G A A A A G GCC G GAACCGGGGAAAA G G G G G G G G G G G G A A G G A A G G G G A A G G A A A A A A A G G G G G G A A G G G G G G A A G G G GCCAACCGGAAAAAAAAGGTTGGAAAAAAGGGGAAAA $C \subset C \subset A A A A G G C C A A G G A A G G A A A A G G A A G G C C A A C C A A A A G G$ AAGGAAGGGGAAAAAGCCAGAGAGAAAAGGGAGGAAAAAGAA GAGGAAAGGGGGCAGAAAGGAGGGGGACAGACGGAGAGGGGG GAGGAGAGGGGATTACGAAGGGAGGGGGAAGGAGAGGAAAAC AAGGAGAGGGGGAAGAAAAGAGAAAAAGAAACGGAGGACCAC A GAA $A \operatorname{GAAAAACCGAGGAAGGAAAAGAAACGGGACAGAGAAGG}$ $A C C A A C A A G G A A C A A G A A A G A C G G G G G G A G C C A A A G A G A G A A$ A A A A A A G GCCGGGGAGGAAGACAACCAGGGCCAAAGAGAGAA A G A G A A A G G A G A G A G G G G G G G G A G A C A G A A A G G G A G A A G G G G GACAAAGGGAACAGAGGGGAGGGGGGGGAAGGAAGGGAAAGB C C A A A GAGGAAGAGGGAAGGCCAGAAGGGAGAAGGAGAAGAA AA $\operatorname{G} G A A G G A G A A G A A A C C G G G A A C G G A A A G G A A A G G G G G G G G$ $C C G G A A G G A A G G A A A A T T G G G G G A A A A A A A A A G G A A G G G G G G$ A ACC G G A A G G G G A A G G G G G G A A A A G G G G C C G G G GCC G G A A C C C C A A A A $\mathcal{A} G G G A A G G G G G G A A G G G G G G G G A A A A G G G B A A G A A A$ G G G G G G G G G GAACCTTCCGGGAAAGGCCGGCCAAGAGAAAAG A A A G A A G G A G A G A G G G G C G G G G G G T A G G A A A A G G A A C C A A G A A G G G GAAAAAGGAAGGGGAAAAGGGGAAGAAGGGAAACAAGG AACCAACCAGGGAACCAGGGGGGGAACCAAAAGGAGAGAGAG G G G G C C A A A G A GAAAGAAGGACGAAAGGAAGGAAAAAAAAAA A A A A A A CCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGGAA A A $\mathcal{A} G A A G G G G G G G G G G G G G G A A A A A A C C G G G G A A A A A A G G E G$ A A G G G G G G A A G G G G G A G GCCGGTTAAGGGGAAAACCGAAAAA G G G G G GAA $A \operatorname{GA} A A A A G A A G G A A G G A A A A A A C C A A A A G G B G A A$
 G GCCAAGGCCGGGGAAGGGGAAAAGGAAAAAAGGAAAACCGG
 C C A A G G G G G G A A A A C C G G G G G G A A G G A A G G G G A A G G A A A A C C G GAATTAAGGGGAAGGCCGGAAGGGGAAAAAAGGAAGAAAAA AAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAGG AAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGGAAGGAGAA G G G G G G A A G G A A A A G G G G A A A A A A G GAAAAAAAAAAAGGACAA C C A A G G A A A A A A A A G G G G G G A A A A A A A A A A G GCCCC G GAAAA AAGGGGCCAAGGAAGGGGCCAAAAGGAAAAGGAAGGAAAAGG

G GAAAAGGCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGGG G G G G G G G G G G G G T T A A $\mathcal{G} G G G G G G G A A A C G A G G A G B A G A A A G G$ A A A G G A G G G G A G G A A A A A G G G G T T A A A A A A A G GAAA A G G GA G G GAATACAACCAAGGGGAGGGGGGAGGTAGGGACAAAAAGAGG AACAAGGGAACACAAAGGGGGACCAAAAAAAAAAAAGAAAAG GAGAACAAAAAAAACAAAGGAAGAAACCGAGGGGAAGGAAAA
 A A G A C A A G G G A A GAGGAGACGGCCGGGGGGGAGACAAGGGGG A A A A A A G G G A G G C C A A G G A A A A A A A A A A G GAA $\mathcal{A} G G G C C B G A G$ A A A A A A A A G GAAGGGGAACAAAAAGAAAGGAGAGGAGGAAAA GAGGGAAGAAGGAAGGGACAAAAAGAGGAAGGAACCCCAAAAA G GAAGGAGGAAGAGAGAGCAGAAAGGAAAGAAGGAGAAGAAA
 G GAGACAGGGCACCGGGAGAGGCCACAACCAAGAAAAGGGGG G GCCAAGGAAGGGGGGAAAACCAAAAAAAACCGGAAGGGGCC
 A A G G G GAA A G A A A A A A $A \operatorname{AGGGA} G G A G G A G C C G G A G A C A A G G G G$ G G G G A A A A G G GCC C G G G G G G A A G G G G G G G G G A G G A A G G G G G A GAAAAAGGGGAGGGGGAGCAAAAAACGGGGAAAAAAGGGGCC A A A C G G A A G G G G G G T T A A A A A A G G G G C C A G G G G G G A A C C C G G AAGAAAGGAAGGCCGGAAGAGGAGGGGGGGAGGGAGCCGAAA AAAAGGAACCGGACGAAGGAGAGGCCGAAAAAAAGGAGCCAA CACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAAA A A GA $\operatorname{A} A A A G G A A G A A A A A G G G G A G C C G G C A G G G G G G C A A C A A$ GAGAGGGGGGAAAAAGAAGCAAGGGGGGAGAAAAAAAAAAGG CAA A A A GAGGAAGGGGAAGGGGGGAAAAAAAAGGGAGAAACC AAGGAAAAAGAAGGAAGGAAAGACAAACCAAACC GAAAAGAG C C A A A A A $\mathcal{A} G G G G G G A A A A A A G G C C G G G G G G G G G G G G A A A A A A$
 A A G G A A T T G G G GAAAAAAACCGGGGGGAACCGGGGGGAAAAAA C C A A A A G G G G A A A A A A G G G G G G A A C C G G A ACCAAAAAAAAG G G GAAAAGGAAAAGGAAAAAAAACCAAGGAACCAAAACCGGCC G GAACCGGGGAAAAAAGGAAGGAAAAGGGGAAGGGGA
A A A G G A A A A G A G A A GAAGGAGAACGGGAAAGAGAGAAAGAG A GAAAAGGACACAAAACCGAGGGGGGGGGAGGGGATAAAAAA C C G G G G A G A A C C G G G G G A C C A G A G G G G A C C A G A G A A A A C A G G AAAAAGACAAGGAGAGAAAGAAAGGAAAGACCAGACAAGGGG AACCGGAGGAAGGAGAAAGGAAACGGTAAAAAGGAAGAAAGAA A A A G A A G GCCAGAAGAAGAAAGGGAGAAGGAAGAGAAAGGAA CA $A G G G G G G A A C A A A A G G T A A A A G G A G G G G G G A G A A A A A A A A$ AAGGAAAAAACCACGAAAAAGGGGAAAAGGAAAACCCCBGAA A A A A A G G G G G G A G A C C A A A G A A G A A A A A A A G G GA G GAA A GAC AAAGGGGGGAGGAGGACCAAGAGAAAGGAAGGAGCAAAAAAA G GCC $C$ G $\operatorname{CA} A A G G A G A G G G G G G G G G G A A G G A A C C A A G G A A A A G G$ G G G G A A A A G G A A G GCCAACCGGAAGGCCAACCAAGGGGAAGAG $A A C C A A G G A A A A G G G A A A G G G G G A A G C C G G T A A A G G G A A A A A$ G G A C A A A A A A A A G G GGAAAACCGGGGAAGGAAGAAAAGAG GA G G G G G G G A A A A A A G G G A G G A A G G G G A A A A A G G G G G G A A G G A G GACACCAATTAACCCGATCCGGGGAAAAAAAACAGGAAGGAG C A A A A C A A A A A GAA $A$ GAGGAGAGCACCAGCAAGATCCGGAAAA A GCCCAAAAACCGGGGGGAAGGGGCCGAAAGGAGCCGAAAAG G G G G A A G G A A G G A A G G G G A GCC G G A A G GAA A G C C A A A A A A G G G GCCCCAAGGAAAAGGGGAACCAAGGAAAAGGGGGBAAAAAG A G GAAAAAGGGGGGGAAGGGAGGGGAAGGGAAGAAAGGGGGG ACGGGGGCAGAGAGAAAAGGAGCAAGAGAGAAGGGAAAAAAG G G A A G G G G G G A GAA A GCCGGGGGACCCCAGGAGGAAGAAACA G G G GACAGGAGGAGGACCAACCAGGGAAAAAAACGACCAAGAG $A G G G C A A G G G C A G G G G C C T T A G A G G A A G A A A C G A G A A G A G A A$ GAGGGACCAACAGAAGCCGGAGAGAAAAAAAAGGAAAAAACC

AAACCAGAGAGAAGCAAAAAGAGGGAAAGGGAAGTACGAGAG
 $A C G G A G A A G A A G G G A A C C G G A A A A A A A A C A G A A C G A G A A A G G$ G G G GAAACAAAAGGAGGAAAAAAGCAAAAAAAATAGACGGAG ACAAGGAAAGAAAGGATTAAAGAAAAGGAAAAGGAAAAGGGA AAAGAACCAAAAGGAAGGACCCAAAAGGGGAAGGGGGAAAGA G G A A A A A A A A A A G GCAAGCCAAGAAAAAAGGGAAAA GAAAA G G G G GAAAAAAGGAGGGGGAAAAAAAAAAAACCGBAAGGGGGG A A A G A GAA $A \operatorname{GA} A G \operatorname{A} A A A G A A G A G G A A A G G G G G G G G A G G G G G G G$ G GAATTAAAAAAGGCCAAGGGGGAGGAAAAGAGGGGCCGGGA A G G G A A A A G G G G A A A A G G A G G G G A A A G G CAC C C C A A G G C C C C CA G G A A A A A G A A G GCCAAAGCAGGCCGGAAAAGGA GAA G GAC G GAGGGAGAAGGCAGGGGAGGACCAACCGGCCAGGGGGAGAA G G G GAAAAAAGGAAGGAAGGGGAAGGAGGAGGGAGGGGGGGA ACAA $\operatorname{C}$ GAAAAGGAAGGCCAAAAAAGGGAGGAAGAAAAGGGGG A A G G G GAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACAC
 GAAGGAAAGGAAAAGGAACCGGCCAAGGAGAGCCGGGGCAAA $G G G A G G C C G G G G A A A A G G A A A A G G A A A A G G G G A A G A C C G G G G$
 AAAACCCCGGAAGGAAAACCGGAACCAACCAAGGGGGGGGAA G GAACCAAAAAAGGAAGGGGAGCCAGCCAGGGGGCCAGAAGG
 G GAGGGGACGCAAAAAGGGAAAGGGGCCGGCAGGGGGGGGGG G G G G A G A A A G G G G G G G G A A A G G A A A G CAAAA A G G GAAAA A A A A
 AAAAGGCCAAGGGGAAGGGGGGAAAAGGAAAACCAGGAGGGG G GAA $A \operatorname{GCCC} C G G A A A A A A C X A A G G C C G A A A A A G G G G A G A G A G$ A GAA A G GAAGGAGACAGGCCCCGACCACGGGGGGAGAGAAAA G G G G G G A A A A A A G GCCGGGGAACCGGGGAAAAACAACAA G GA GAGGCAGGGGGGAAGAGGAGAAACGGAAGGGGAAAAAGAGAG GGAAACGGAAAAGAGAAGGGCAAAGGGAGAAACCCCGGAAAA GAAGGGAAACGAGGCCAGGGGAAACAAAGGAAGGAGAAAGAG G GAAAGGGAAAGGGCCAAGAGGAAGGAAAAAAGAAGCAAGGA GAAGAGGGGAGGAAGGCAGAAAAGCCGGAAGGGGGGAAAAGB $G G G G G A A A G G G C G G A G G G A A G G A A G G A A A A A A G G G G A A A A G A$ G G GACAGAGGGGAACCAAAGGGAAAACAAAAGAGGAAGGGAC $C \subset A A C C A A G G C C G G C C G G A T A G G G A G G G A G A A A A G G G G A G G A$ G GAA A G G G A GAGAGAAGAAAAAAAAAAAGGAAGGGGAA GAAA $A G G G G A G A A A G G A A G G G G G G A C C C C C G G G G A A G G A A A A G A A G$ AAGGAAGGGGAAAAAAAAAAAGAGGGAAAAAGAAACGGAGAA G G G G A G C C A G G G G G G G G G G A A G A A G G A A A A A A A G A A TAA A C C G GAGGGGAAGCCAGAAGGGGTTAAAGAAGGAAAAAAGAACGG G GCCGGGGAGGGAGGAGACCAAGGGGAGCACCAGAAAAAAGA AGGAGAAAAAGGCCAAAAAACCAAGAAAAAAAAAAAAAAGGA G G GACCAAAAGGGGAGGAAACCAACAAAACGAAAGGAAAAAA A A G G A A G G A A G G G G G A A A G G CAA $A \operatorname{AAGAA} A G G G G G G G G G A A A C$ C G GAAAAA AAGGGGAGGAAAAGAAAACCAAGGGGGGAA G GAAA G GAAAAAACCAAAAAAGGAAAAAAGGAAGGAAGGAAGGGGAG G G A A A A A A GAGGAAAGAACCCCAAAAGAGAACAGAAGGGAGG G GCCAAAAGGAGCCAAGAAACAGGAAAGAAGAAAAGAACAGA G GAGGGCAGGGGAAAAAAGGAAAAGGGAAAGAAGACAGGGGG G G A A G A G G A A C C A G C C G G A A A A G G G G G A A A A A C C A A G G G G A A G GAAAAAACCGGAAAAGGGGAAAGTAGAAGAGAGAGCCCAAA G GAAAAGGGGCAGGACAGGAAAGAGAGAAGAAGGGGAAAAAG G GAAGAGACAAGAGAAAGGGAAAACCAGAAGGAGAGAAGGGG G GAA A A G G G G G GAACACAGGAAGGAAAAAAAAAGGAAACCGG G G G G G G A A A G G GC G G A G A A GAA $A \operatorname{AGGGA} G A G C C G G C C C G A A A B$ CAGAGGGAGGAAGGGAAAAAGGAAAACCGGAAAAGGGAAAGG

A A A A A A G G A A A A G GAAGGGGGGCCAAGGAAGGAAAACCAAGG C C G G G G G G A A A A A A A A G GAAC CAA A G G GAAAAAAA G GAA G G C C G GAA $\operatorname{G} G A A A A A A A A G G A A A A G G A A A A G G G G A A A A A A C C G G G G$ AACCAAAAAAAATTAAAAGGCCAAGGGGGGAAGGGGAAAAGG
 G GAACCGGGGGGGGAAAACCAAAAGGAAAAAACCGGAAAAGG A A A A A G G G GAAACGCAACGGAAGGCCAAGACCAAGGGGGGGG G G G GAGAAAACCGGCAAAGGGGGGGAAAAAAAGAAAAGAAAG G GAGCAACAAGGGGAACCTTGGCACACCCAAAAGATAAATAA G GAAAAGAAAAAAAGGGAAGAGGAGAGGAGAAAAAGAAAGAA CAAAAGGGGAAACCGGGGAAGGGGGGGCACGGGGGGAACAAG A A GAGGGGGGGAAGTTAAGGGGCCGGCAGGCCCCAAAAAAAA G G A A A A G G A GC G A A GAA $A$ G ATTACACAAAAAGCCCCGAGGAA G GACAGCCAGGGAAGGGAACGGCAGGAACCGGAAGAAGAAAA A GAAAAAGAGAAAGAAAAGGAAGAAAAGCAGGGGCAGGAAAA A GAA A GAA A GAAGGGGGGGAGGAAAGAGGAGGAAGGCCGGAA A A G G A A A A GCGGGAAAGGACGGGGTTGGCCGGGGCCGGAAAA ACAAACAAAAAAAAGGGGGAAAGGGGAAGGAAAA GAGGAGAA T TAAAAAGGGAAGGAAGGCCGGAAGGGAGGGGGGAAAAAGAA G GAAAGAAAAGGGGGGACAGGGGGGGAAGAAGGGAAAAAGGG AGGGAAGGGGGGAAAAAAAACGAGGGAAAGGAAAGGAAGAGA G G A T A G GAA $A \operatorname{GA} A C G G G G C C C C G G G G G G A G G G A G G G G A A G A A$ G G G G G G A G G G G A G A A G G G G G G G G A A A A A A GAGGGGG GAAAAA G G G G A A G G A G G A A G A G A G G A C A A A GAAAA A G C CAA G G C C G G G G A G GAG $\operatorname{G}$ A A GAGGAAGGAACCGAGGAGGACCAAACAAAAAAGA G GAATTAATTAAAAAAAAGGGAAAAGAAGGCGAAAGAATTAA
 A A A A C CAA $A \operatorname{AGGGGAGACCCAAGGGGGGGAAAAAAAGGGGGAC}$ GACCAAAAAAGGCCAAGGCACCGGAGAAAAGGAACCGBCAAA CAAAGGCCAAGGGAAAGGGGAGGAAGAGAGAGAAGGGAGACA CA A GAGGGAAAAAAGGAGGGAACCGGAAAAAGCAGACCBAAA A G G GACAAAAGGGGGGAAAAGGAAAGGGCAAAAAAAGGAAGA GAGGGGCCGGGGAAAGGGCCCCCCAAAAGGAAAAGGG
GCAGAGGGGACCCAAAGACAGGAGGAACCGAACCCCAGAAG AAGGAAGAGAAAAAAACCGGGGGGAAAACAAAAGCAGAAAGG G G G A A T A A A A G G G A A G G G G A A G G A G G G G G GAAAA A A CA A A A A G GAAAGAGAGGGAAGGGGGGGGAAGAAAGAGGGGAAAAGAAA $C \subset A A A G A A C A G G A G A A G A A T G G G G C C A G A A G G C C G A C C C C A G$ A A C C A C A A A A A A A A C CA A A A G G A A GGGGGAGGCAA GAACAAA G G A A A A G A G G A A A A G G G A A G G G G A G G G A C C G A G G A T G G G G A G AA $A$ A $\operatorname{Ag} \operatorname{G} \operatorname{GAAAGGGGCCAAGGCCAAAGGAGAAAGAGGAAAGGA}$ A A G G A A G GCCAAGGGGGGAAAAAGCCGGAAGAAGAACCCCGG G GAGAAGAACGGCGGGAGAAAAAAAAAACCGAGGAGAGACAG A G A A A A A G GAA GCACAGAAGGAGGAAGGAAAGAGGGAGGGCA CAAAAAAACCCCAGGGAGGGAGGAGGGAGGGAAAAAAGGGGG C CAA $A G G A G G A A A C A A G A A G A G A A G G A G A A A G A G A A G G A A G A$ C CAGGGGACCTTGGGACCCAGAGGGCAAGGAGGAAGAAAAGAG G GCGGACCAGAGGAGGTTAAAGAGAGAAAACCCCAAGAGAGG
 A G G G A A A A C C G A G G A G G A G G A A G G G G G G G A G A A A A G A A C C G A G GCCTTGGGGGGAAGGAAGGAGAAAAAAAAGGAAAGAACAAA A GAC $\operatorname{CAAAAAAGGGAAAGGAAGGGGGGAAGGAAAAGGGGAA} G A$ A A G G A A A A G G A G A G A A A G A A A G C C G G A A G G G G G G A A A A A A G G G GAAGGCCGGGGAAGGAAAAAAGGAAAAAAGGAAGGGGAAAA T TAA $A \operatorname{GA} \mathrm{~A} A A A C A A A G A G G G G G G G A A A A A G A A G G A A C A A A A A$ G G A A A A G G G GCCGAAGAAAAAACCCACCAAAAAAGAAGAATT A A C A A T G G GCAACCGGGGGGGAGAGGGAAAGAGAAGAAAA GA GAGGGAAGGGAAAGAAAGAAGGAGGGGGAAGGGAAAAGACAA $G G A A A G C A G G G A G A A G A G G G A A G G A A A A A G A A G G G A G A A A A A$

G GA GAAAAAAGGAAATTAGAGAAGAGGAGGGAAAAGGGGGG A A G G G GA $A$ A $A G G G G C \subset A A A G A G G G A G G A G G A A G A A G C C G G G G$
 G GAACCAAAAAGAGGGCCAAAAGGCCCCAAGAGAGAAAGAAA G G G GAA A G G GAAGGGGCCGAGGAAGAGAGGGAGGGGAAAAAT GAGAGAAAGGAAGAGAAAAGAAAGAGGAGGGGAAATCAGAGG G GAGAAAAGAAACCCAAGAAAGAAAAAACCACAACCAGAAGA $A G A A G G G A G A A G A G G G A A G G C C A A C C G G G G G A A A A A G G G G G G$ G G G G G GCCAA G GCACC G G G G G G A A A A A A A C CA G GAC G GA G G G GAAACCGAGACCGGGGGGGGAAGGAGGAGGGGGGTAAAAAGA A A GAGGAAAACAAAAAGGAACCAGGGGGTTGGAAGAGACGCC CAAGCAGAGAGGAAACGAAAGGGGGAGGAAAGGAGGCAAAAA A G G G G GAA A G A CAAAAAAAAAGAAAGAAGGAGAAGGAGAAA GA A GAAA A A A A A CAGGGGCAGACAGGTTGAAAAAGGGAGGGGCC G G G G G GAACCGGAAAAAAAAGGAAATTAGAAGGGGGGGAA GA $G G C C G G G G A A G G G G G G A A G G A G A G G G A G C A A G G A C A C C G G G G$ C C TAAA A A A A GAAA A GAAGGAAAAAAGGCAAGGAGAAAAAAC A A G G A A GAACAGGGAAGGCCACGGGGAAAGGGAAGGGGAAGA G GAAAAAAGACCAAGGGAGGGGGGAAAGCCAAGGGAAGACGG TAAA A A GAAGGAAGGGAACCGGGAGGAACCAGAGAAAAGGGG A GAAAGGAAAAACCCCGGGGAACCAAAAAACCCCGGAACCTA G G G GAA $A \operatorname{GAAAAAAAAAAAGGGATTAAAAGGGGGGGGAAAGGG}$ $G G C C A G A A G G A A A A G G A G G G A A G G C C G G G G G G A A G G A A G A G A$
 C C G GAAAACCGGAAGGGGCAGGGGAAGGACAAAGAAGGAAAA A A GAAA A A A TAGGGAGAAGGACAGAAAGAAAGAGGAACGGGA AAAAGGGGACGGAAAGAGGGGGACCAGAAGAAAAGGGGAAGA
 C C GA $\operatorname{C}$ GAAAAGGGGGGAACCAAGGAAAAGAGAAAAAGACAAA A GAGAAGACACCAAACGGAAAAGGGAAGAAAAGGAAAAGGAG G G G G A A C C A G G A G G G A A A G G C C G G G G A A A C G G A A A A A G A C G G G G G GAGGAAGGGAGAAAAGGAAGAAGAGGGAAAGAAGGCCCA AC G GAGAAAGAAAGGGAAAAGAGGGAGGGAGAAAAGGGAGAG G G G G A A G G A G G G C C G G A A A A A $A \operatorname{GGGGGGGGGGGAAGGGAAGAC}$ G GCCGGAA G G G G A C G A T T A A G G A A T A G G A A G G A A G G G G C C G G
 C CAAAACCGGAAGGGGAAAAAAGGCCGGAAAAAAAAGAAAAA G G G G G GAA $A \operatorname{GA} A A A G G G G G G C C A A G G A A A A G G A A G G G G A A G A$ G G A A G GCCGGAAAAAAGGGGGGAAAAGACCGAAAA GGGAGAG $A G C C A G A A G G A A G A A A G G T T G G A G G A C C A A G G G G G G A A G A A C$ C GAGAGCCCCAAAAGACCAAAGGGGACAAGAGAGAGGGAACAC T T A A A A C CAC G G G G A A C G A A CAGGCCGGGAGGGGA GAGAAAA A A GAAAGGAACCAAGGAGAAGGGGAAAGGAAACCCCAAAAGG $G G C C A A A C A A G G A C G A A A G G A A G A G A A G A A A A C C A G A C A A A A$ C C G G G G G G A G CACACAAAACGGGGGAGGAAAA GAAA G G CAGGG A A A C A A A A GAGGAAGAAGAAAAGAAGAAAGCAGAAGGGCCGG
 G GAAAGGAAAGGGACCGGTTGAAAGAGGAGGGAAGAGGAAGA A GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{G} G A C C A A G G A A G G A A A A G G A A A A G G A G G C G G$ GACCAAAGAAGGAGAGAGCAGGGGAGGGAAAAAGAGAAAAAA $A G C C A G G A C A G G A A A A G G G A G G A C C C G G A G G G G G A G A A A A G G$ G GAAGGGAACGAGAAGAAAGGAAGCCAGGGGGAAGAACBGCA A A A G G GCCCCAGGGAAAAAAGGGGGGGGAAAGGGGGGAGGAG A GAGAAAAGGGGGAGGAAAAGGGGAGAAAAGAAGGCGACAAG GAGGCAAGAGGGGAGGAAAGAAGGGAAGAAAAGGGGACBGGA A A C A C A G G GAGAAAGGGAAAAAGGGGGGGGAAGAAAGGCCGG

 $G G A A G G G G G G A G A G G A A G G G A G G A G A G G C C G A G G A A A G A A G G$

AAGAGGGAGAGACCGGAAAGAAAAAGAGAGAGGGGAAAGAAG $A G C C G G G G A A G A G A A G A G G G A A G G G G G G A G A C G A A A G G A G A A$
 A A A GAA A G G G G G GACCCCGGAGGAGAGGGAAGACACAGA GAA A GAAAAGGAAGGACAAAAAGGAGGAAAGGAGAGGAAAAAGGG $A C C C G A G G C C A G A A G G A G G G G G G G A A C C G G C A G A G A G G C C A G$ A A G G A A A G G GCAACAGAAAAGAGGAAAAAAGGAACCAAGGCC CCGGAACCAAAAAAGGAAGGGAAAAAGGAAGGGGGAGGAGAA A G GACAAGAAGGCCGGGACAAGAAAAAGAGAAGGGGGGCAGA ACAGGGAGAAGACCCCGAGAGGAGAGAAAGAAAAACGGAAAA A A A A A TAAAAAAAAACAGAAGAGAAAGGAAGGAGCCATAGGG G G G G G A A G A G A G G G A A G GCCAAGGACGGAAGAGATTAAAAAA G GAAGGAAAGAGGAAAAAGAAAGGAAGAAAGAAGAAACCCCC AAAACCGAAAGAAGAAGAAGAAAAAAAAGGAACCGGGGAAGAG A A A A A ACCAAAAAAAAGAAAAGCCACCCGGCGAGGGGAGAAA G GAGAAGGGGAAACAGAACCAAGGGAAGACAAAAAAAGAAGA $A \subset A A G A G G G G A G A A G G G G A A G G G G G A G G C C A G A A G G A A G G A A$ A A G G G A G A A G G A A C C A GAGGGAAGCAAAGAGAGGAAGAACGG C GAAGGACGAGGGAGAAGCAGAAAGGGGGGGGCCAGACAGGA A G GA GA GACAAGAAAAAAGAAAGGAAGAAGAACCACGGGGGG GATTGAGGGGCCAGAGAAAACCGGGGAAAAGGGGGGGGGGGG A GCCAGGGCAAAAAAAGAGGGACGGGAAGAAAAGGAGGAGAA G G G G G G A A G G A G G G G G A C G G G A A GAC GA A CAAA A A T T GAAAAC CACACACCAAGGAAGGAAAAGATAAGAGAGAAGBAGGGAGAG
 GGAGCCCAGGGAAGGGAAAAACGGAAAAAAAAAAGGGAGAAC A G G G G G G G G A A G G A G G G G G G A A G G G GAA A G G G GACACA GAA A A GAGGGGGCCAAGAGGGAAGGGAAGGGGGAGGAAGAAAGGAA G G A A A A G G A A A A G G GAGGGGAAGGAGACGGGGAAGAGAAAAA G G G GAA A A A A A C G G G G GAAAGGAGAACCAAAAGGGGGGTTGG G GAACCAAAAAAAAAGGGCGCAGAAGAAGGCAAGAGAAAGGA G G GAGGGGCCAAGGAGCAAATTGGAAGGAAGAAGGACAGGCC

 G G G G G G C C G GAA $A \operatorname{GGG} G A A G G G G A A G G A A G G A A C C G G A A G G A A$ G G A A G G G G A A G G A A A A T T A A A A A G A A GAA GAAA A A A A A G G A A A A A A A A A G G GAA G GATAACCAGAGAGAACCCAGGAAGGAAAA G G G GAACACAAAACAAGGAAAAAAGAGAGGGGAAGGAAAAAA G GCCAGAATAAGGAGGGAGGAGAAGGAGGGAGGGAAGAAAGA G G G GAGAACCCACCGACAGGAAAGGGAAAGAAGGAAGGAAGG AAAAGGGGGGGGAGACGAAAGGACAGGAGGAGAGAGGGAAAA GAACGAGGGGGAAGCCAAGAAAGGCCGGAAAAAAGGGAGACC G GAAAAGGAAAAAAAACAGGAAAAGGGAAACCAGAAGAAAAA AACCCACCATGGAGAAAGAAGGAACCAAGGAAGGGAGGGGAA G G A A A A G G A A C CAA A G G GCCGATAGAAAGGGGCCAAGA G GAA A A A A A A G G A A G GAAAA A A G G G GAGAGCCGGAGGAAGGBCAAC AAAGAAGGGGAAAAAAAAAAAAGGAAGAAGGAAAAGAAAA GA GAACGGAAAAAAGGCCCCAGAAAAAAAGAAGAAAGGGGAACC G GCCGAAAGGGGGGCAAGAAAAGGAAGAAAGAGGAAAGAGGG GAGAAGGGAACCAGGAAGAGAAAGAGAGAACAGGAGAAGAAA G G G G A G A G A A G G G G A G T A A A CAGGCCGGAACGAGATAGAGAA A A A A A GAGAGAGGAAAAAAAAAAAAAAAGGCCAGGGAGAGGG G GAGAGAGGGAAACAGGACAGGAAGGAGGAAACAGGCABAGA GAGAAA $A \operatorname{A} A \operatorname{A} C \subset C A G A A A A A A A A A G G G G G G G G A G G G G G G G G G$ GCGGGGGGGGCCAGGACACATAAAGGGGGGGGAAAAGAAAAA $G G C A A A A C A A G A G A G G A A C C A A C A G G A A G G G G T T C A G A G A G A$ AAAGGAGAGAAAAAAAGGAAGAGGGGAAAAAAAAGGAAAAAA
 $A C G G A G A A G G A G G G G A C C C C A C A G G G G G G A C C A A A A G G G A A A$

GACCAAGGGGGGAAAAGGTTAAGGGGAACCCATAAGAAGGGG
 GA $A \operatorname{GAA} A G G G G G G G A G A A C A A G A A C C G G G G A A A A A G A G A G C C$ GAGGGGGAGAGAGACCCCGGAGAAGGAAGAAAGGAAAAGAAA AAAGGGCAGGGAAAGGAAAGAAACAGAAGGAAGAA GAGAGAG A A A GA $\operatorname{A} A A A G A A G G A A A A G G G G G G A G C C G G A A A A G G G G G G G G$
 GGGAGGCCAAAGGGAGGGAACCACGAGGGGAAGGGGACCCGG G G C A G A G G A A A A G G A G A A A A A A G G A G CAAA A A A C A G G G A G A C $C \subset A A A C G C C C A A G G A A G A G G A A G G A A A A A A A A A A G G A A A G A G$ G GCCGAGAAACAGGGGGGCCACGGAGAAACAGGGGGGAAAAA $A C G G C C G G G G A A G A C A A G G G G A A G A G A A A A A A A G A T C A G A G G$ G G A A G GAGCCGAAGGGCCGGAAGGACGGGGAGGAAGAAAAGA
 A G G GAGAGAAGGGGAAAAAAGAAAAAAGAAGGGAAAAGAAAA G GAA $A \operatorname{GA} A A A G G G G G G G A A A A G A A A A G C A G G G A A A G G G G G G G$ A A A A GCA $\mathcal{A} G \mathrm{G} G \mathrm{G}$ GAAGGAAGGAAACAAGAGGAGAAAAAGGGGG AACCAGCAGAAAACGGAGAAGGAAGGAAAACCGAGCGAAGEG AAAGGGAAAAGAAGAACCAAAGGGGGGGCCGAGGGAACAAAC A A G A A A C A A C G A A A G G G G G G C C A A G G A A G G G G G G A C A A G G G G AAAAGAAGAGAAGGGAAAGGGGAAAAAAGGAAGGAAGGGGAA
 A A A C G GAAAGAGAGGGCAAGCCGGGGCAGAAAAAGAAAAAAA G GAA A A C C G G G G G A G G A GCCGAAGAGAGAGGGAGGGAA GAAA G G A A G GCCTTGGCCACGGCCGAAAGGGGGAAAGGGGGGAGAA G G G GAACC C G G G GAAAAGGAAGGAAAAGGAGAACAA GAGAGAA AAAGGCAGGGAAAGAAAAAAGGAGAGCCCCAAAGGGGAAAGA
 GAGGAACCGAAGGGAGAGAAAAAGAGACACAAGAGAGGTTGG G G GACCAAGGGGGAGGCAGAAAGAGGGAGGCACCGGGGAAAG G G C C A A G G A G G A G A G A A G A A A C G A G G A G A G GAA A A T A G A T G A G GAGGGAAGGGAAGGGGGGGGGGAGGAGTAGAAAAAAAGGAA C C G G G GAAAAGGGGAAGGAGAGGGGGAGAAGGAAAAAAAGGG A A G A G A G G A A G G A G A A G G G G G G A A A A A A C CAA G GATAAAC CA C C A G G A G G A GAAAAGAAACCAAGGGAAAGGGGGGAAAAAA G G A A C C A A C C C C A A A A G G G G G G C C C C A C GAGGGGCACAAACAAA G GAGGACCGGAGGAGAAGGGACACGGAACCGGGGAAGGACAC AAAATAAGGAACAGAGAAAAGAAGAGAGAAAACCGGGGAAAA G G G G A A G G G G A A C C G G C C T A A G A C G G A A G G G GAA G GA GAAA A G GACGGAGGGAGGAGAGGCAAAAGGGAAAGGAAAGACCGGGG AAAGGAGAGGGGCCCCAAACAACAAAGAAGAGAAACGGGGGG
 G G G GAAAGCCGAAGAAAAAGGAGGAGACCCAAGGACGGAAAA G GCCAGAAAAAAGGGAAAAAGGGGAAAAAAGGGGAAGGCAAA A A G G G GACAAACCCAAGAGAAAAAAACCGGGAGAACGAAGAC G G G G C A G G A T A G G G A A G GAGGAGGAAAGGAGGAA GACAAAAA A A A A C C C C C C A A A A G G G G G G G G C C A A GAC CAA G G A A A A G G G G G GAAAAGGGGATGGGGAGAAGAGAGAAAACAAGAACAGCAGA GAAGGGGGAGAGAAAGGACAACGGGGCCAAACAAAAGAGGGG $A C C C C C G G A A A A A A A A A A A A A A A A G A A A C C G G A A G A A G A A G G$
 G G G G A G A A G A A G G G A G G G G G G G G G G G C C G G C C G G G G G G G G G G A A G G G G A A G G G G G G A A A A G G A A G G C C C C G G A A G G G G G A G G G G GGCAGGCCAAAAACGGCAGGGGAAGGAACCAAGAAAAAAAAG GAGGGAAAAAAGGGAAAGCCGAAAGGGAGAAAACGAAAAAGA CATTAAGAAGCCGGGGTAAAGACAGGGAAGGGAAAAGACAGA A GAAAAACAAAACCGGGGAAAACCAAAAGGGGGGAAAGAGAA G G G G A A A A A $\mathcal{A} G G G G G A G G G G A G A G A A A A A A G G T T A G G G A G A A$ $G G C G G G A G G A A A G G A A G G A A G C G A G A A G G A A C G A G G A A A G C C$

ACAACCGGAGAAAAAAAGCAGAAAGGAACCAACCCCAAAACC A A C C C C G G G G G G A A C C G G A A A A G G A A G G A A A G G A A G G A G G A G G G A C A A A A A A G G G G G G G G A A G G GA G GAAACAAAA A G G G A G G A AGGGGACCACGAGAAGGGAGAAGAAACCGAGGCCTTGGAAGA AA $\operatorname{A} G A A A G G G G G G G A G A A G A G G A A G G G A A A G G C C A G A G G G G A$ GAGAGGAACGGAGAAAAAGGGGAAGGAAAAAACCCCBAAGAA C CAGAAAAAAAAGGGGAAAAGACCCAAAGGGGGAAGAAACAG A A G G A A A A G G C CAA $A \operatorname{GGGGAAAAAGCCGAGAGGCCCAGGGGGG}$ GAGGCAGGGGGGGAAGGGCCAGAAAAGGAAGAGAAAAAAAGA A GAAGGGGAAGGGGGGGGGGGGGGGGAAGGAAGGAAGACGAG
 G GAGACAAAAACGAAAGGAAGGAGAAGAGAGGGGGGAABAAA GGAACCAAAGAGCCGACCCCAAAAAGCCGGCCAAGAAAGGGG A A G G G GCAGGGAGGCCGAGACCGGGGAGAGACAATTGAAACC G G G G G G A A C C A GAA A GAGGAGGCAGGCCACCCCAAGGGACCC ACAGCCAAAAAGCCGGAAAGGGGGAAAACAGGAGAAAGGGAA

 $G G A A C C G G G G C C C A A C A A G G G G T A A A G A A G A G G A G G A A G G G G$ A A G G G A G G A C G G C C A A G G A G G G A A G G A G A A A A G G A G G A A A A A A GAAACAAGGGAGGGATAGGGGAACCGGAAGGAGGAAGAAAG G GAA A G GAGGAAAAAAGGAGGAAAAGGGAGTTGGGGAAAAAA AAGGCCAAAAAACCAAGAGGAAAAGAAAGGCCGGGAACAGAC A A A A A A A A A A G G G G A A A A G G C A A A A GAAAC G GAA G G G A C G T T G G G G A A G G CA $\operatorname{A} G \mathrm{G}$ GAACAGAGGGGGAACCAAGGGGGGGAGGGG A GAGGGGGAGACAAAAAAAAGAGAGGCCGGAAAGAACCBAAA C CAAAAGGTTAAAAGGAAGGAAAAAAGGAAGACCAGAGAGAA A A G G A GCA $\operatorname{C}$ GAAAGAAAAAGGAGAAGGGGGAGGGGGGAAAAAA G GAACCAAAAGGAAAAGGGGGGAAAGTTGGCGAAAAGGABAA AGGACCACGGCCGGAAGGAAGGAAGGGGAGGGACAAGGAAGA GAAAAGCCAAGGCCAAGAAAGGAAGGAAACAGGAGGCGCCBA GAAGGAAGAAAAAGAGAAAAAAGGAGGGAAAAGGGGGGAAAA G GAAGGAGAGGGGGAGACGGAGGGAGAAAACCAGAAG
G G A G GCCAGAAGGGAAGGGAAGGGGGGAAAACAGBAAAAGG A A A A CCGGGGGGGGAAGGAAAAAGAAGGACGGAAAAGAAGAG A A A A C A G A T T G A G A GAGAAGAGAGAAGAGGCCGAAAAA GAAA A GCCAAAAAAGAAGCCAATTGGAACCAAGGGGAAAGGGAGGG AAGGAACGGGAAAGACCAGAAAAAAAAGAGGGGGGAAAAAAA G G G G A G G G A C A A A A A $\mathcal{A} G G G G A A A A A G G G A A A G G G G G G G A C A A$ G GCCCAGGAGAGACGGCAGAACGAGAGGGGGAGGAAAGAAGG AGGGGGACAAAACCGAAAAACCAAAAAAAAACGGGAAGAAAG G G C A A A T T G G G G G G A A A GAC G GAA $A \operatorname{AGGAACAAGGGGAAGGGG}$ $C \subset A A C C A A G G A G G A A A A A G G G A G G A A G G A G A A G G A A C C G G A A$ G G GA GA G GAACCAACCAGAAAAAAAAGGGGGAGAAAGGAGAA A A G G A A A GCC G G GACCAAGGCAGGGGACAAAAAGGAAAAA G G A A A A A A G G A A A A G G G G A A A GAGGGGGGAGAAAGAGGGAAA G G
 G G G G A A A A G G A A G G A A A G G G G G A A A A G G A A A A A A GAA GAA G G $C G A A G G G G G G C A A G G G A G G A G A G A G G A G G C A A G G G G G G G G G A$ G G G G A A C C A A G G G G G A G G A G G G C A A G C C A G A A A G G G A A A G G G A GCA C GAGAACCGGATAAGGAAAGAAAAAAGAAGAAGGGGGA G G G G GACACCGGAAGGAAAGAGAAGGCCAAGGGGGGAGACAB
 $G G T A A A G G G G G A A G G G C C A G G A G A G A G A G A G G A A G G G G G G G A$ A A G GACAGGAAGGAGAAAAAAAGGGAACGAGGAAACAAGGAC $A C G G A A A G A G A G C A G G A G A G A G A A A G A G G G G G A G A G A A G G G A$ G G G A C C G G A A G A G G G A G G T A GAGGGGAGAACCGGGGAAAA GA G G G G G G A A G G A A A A A A A A G G G G A G G G G G A A A A A A A A A A G G A A GGAAGAGCGGCCAAAAGGAAGGAAAAAAAAGAAGGGAAAGAG

A GAAAGAAGGGGGGAAAAAAGGGGCCAAGGAAAAGGCCAAAA A A G GAACCCCGGAAGGTTAACCAACCAAGGGGAAAAAAAAAA $G G C C G G A A G G A A A A A A C C G G A A G G G G A A A A A A G G A A A A G G G G$ G G G GAACCAAGGGGGGGGAAGGGGGGGGCCGGGGAAGAAAAA G GAAAAAAGGGGGGAAGGGGAAAAAAAAAAAAGGAAAAAAT T $C \subset A A G G A A A A C C A A G G G G A A G G A A G G G G A A G G G G A A G G C C C C$ A A G G G G G G G G G G A A A A A A A A A A A A A A A A C CAA G GAAAA T TA A AACCAAAAGGGGGGAAAAAAAAAAAAGGAAAAAAGGGGAAAA G G G GAAAAGGAAAAAAAACCGGCCGGAAGGACGAGGCCGGGA AAACAGAAAAAAGGAGAGAGGGGAGGAAAGAGGAAACAGGGA AA $A$ A $G$ GAACCCCGGGCAGATGAGGAAAAGAACGGGAAACCAA
 GAAAAGAGACGGACAGCCAAAGGGAAGAGGGGAAGGATGGCC A A G GAAAACCTTCCGGACAAAGAAAAGGAAGGAAGGAGAGGG GGCAGAAACCAAGGAAGACCGGGGGGGGCAAAAAGGAAAAGG CAGGGAAAAAAAACGGGGGGGGAAGGAAAACCGAAAAAGGCC GAGGAAGGCCAAAAAGAGAAAAACCCAAAGGGGGAAGGAGAG G G G GCCGGAAGGGGAAAAGGAAGGGGAAAACCAAGAAAGAAA GAGGGGCAAAAGGGAAAAGGGGGGCCGAGGAAGGAAAGCCGG C C G GAGAGCCAGAAGGAAACAAAAAGGAGACCCCAAGGACAA AAAAAAGGAAGGAAAAAAAAGGCCGGAGAGGAAAAGAGAACA A G G GAGGGGAACGCAAGGAAAAAAGAGAAAAAGAACGGGGGG GAGGGGAAAAGGCCGAGGGGTAACAGCCAAAAAAGGGGGAGG
 $G G A C A A A A G A G G G A G G G G G G A G G G A C G G G G A A G A A G C C A A A A$ A GACAAAAAAAGAGAAAAAAAAAAAGAGGAGGAAATAGEGAA $C \subset A A T T G G A A A C G A A A G G G G A A A A G G A G G G G G C A A G A G G G A G$ G GAAGAAAGAAACCGGAGAAAAGGGAAAAGAAAAAACCAGAC GAAAAAGGAAAGGGGAAAGGGGGGGGAGCCAAGGGGCCAAAA GACAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGGAAGAG A A A GAGGGAAGGGGAGGGAAGAAACCAAAGAAGGAAGACCAC GAGAGAGAAAGGGGGAAACCAGAAAAAAGGAAGGAACCAC GA GAGAGAAGAAGGGGAAGAAACCAAAGCGAAAAAGCCAAGGGG AGCGCCGGGCGCACAAACAGCCGGCCGGAAAACCCCAAGGAA C C A A A A G G A A C C G G G G A A CAGAGGAGGGGGAAAGAAAAAAAA AACCGGGAAAAAAAAAAAGAGAGAGGGGCCGGGGACCCCCAA A GAGGATAGGGGAGGGGAAAGGAGCAGGTTACGGAGCCGGGA A G GAA A G G A GA A GAAA $A \operatorname{A} G A G A A G G A A G A A A G G G A A G G G G G G G$ A A C A G G G G G A G G G G C A A A A G G G A A A A GA A A GAGGGGAGA GAA G G A A A A A A G GAACCAAGGGAGGGGAGCCAAGACCGGAAAAAA G G G GAAGAAAGAAAAAAAGGAAACACAAGGAAGAAGGGAAAA A G A A A A A A G G G A A A A A A GAAAAACCCGCAGACAACCGBAAAG GAGGGGAAGAGAGAAAGGAGGGAAAGAAGGAGGGAAAAAAGA A G G G A A G G G GCACCCAGGAAGACCAGGAGGGAGGGACAGGGG A A A G G G A C A T A GAA A GAAGGAAAAGACAGACCAGA GAA G GAAA A A A A A G G G A A A G G A GAAAGGAAAAAGCCAAAGAAAAAAAACC G G G G G G C C G G G GA G G G A A A A C C G GCCGGGGAGAAAAAAAAC C C C A G A G A G G G G A G G G G A A A G G G G GCCCCAAGGGGCCGGAA GA GACCAACCGGGAGAGAAGAGAAGACAAAAAAACCAAAAAAGA A A G A A G A A GA $\operatorname{A} G A G G G G G C A G G G G G G G G G G C C A A A A C C G G G G$ A A G G A A A A G GCC G G A G G A G G A A A A T T G A G GAGGGACA G G G A A A A G G G A A A A A G G G G G G A A C C G G G G GAA A G G A A A GAAA A G GA G G G GCCGGAAAGCCGGAGGAAAGGGGAAAAAAAAAACAAAGGGG AACCGGGGGGAAAAGGAGGAAAAAAAAACACAAGAAAAGGAA AAAGAAAGACAAAACCGGAATAGGCCAGAAAGCCAAGGAGAA
 A A A A C C A A GAGAACAAGGGGGGGGAAGGAAGGACCCAAAAAA $A G A A G G A A A G G G A A G G A A C C G G A A A G A T G A G G A C A G G G G G C C$ G G G G TA $A \operatorname{GAAAAGGAAGGGGGAAAAACAGGGGAAGGAACCCG}$

GACCGGAACCGGTTTTGGAAAAAGAAAGTAACCAAAAGCACA AGCCGGAAAAAAAAAGACAAAAAAAGAGCCAAAAGAAAGGAG A GAGAAAGAACAGGGGGGAAGGAGAGAACCCGAGGGAAAAGG A A GAAGACACCAAGGAAGAAGGGGCCCAAAAGAAACGGGGGA AAA A G GAGAGGAAGAAGAAAAAGAAGAGGAGAGGGGAAGGGG A G GAAAAAGGGGAACACCACAGGAGGAAGACCACAGAAGGAG A G G GCCAGGGGGAAGGAACCCCGGGGGGCCAGAAGACCAAAA AAAGAAAGAGGGGAAGCAAGGGAGCCGAGGAAGAACAGAGAG C CAGCCGGAACCAGAAAAGGAAGGGGAGCCGGAAGGCCAAGB G GAAAAAAAGGAGAGACAAAGGAGAAGAGGCAAAGGAAGGGG
 A A A A A A A A T T G GCCAGACAGAAGAGAAAAGAGAAA GAGCCGG AAAAGGGAAGCAAAAACCGGAAGGAAGAGGGGGGAGGGAGGG $A G G G A A A G G G G A G G A G G A G G G A G A G G A A G A G G A G G G G G A A A A$ A G GAGCAAACAAGGAAGGAAAGGGAAGGGAGGAGAGGAGGAG ATAAGGAAGGAAGGAAAAGGAGAAAACAGGGGAAGCGGAGAG A A A A A A A C C C G GCCGGGGAAGAGGGGAGGGAACC G GAA GA G G GAAAGGGGAGGGGAGGAGAGGGGGAGGGAAGGGAACCAAAGG GGCCCCGGGGAAAACCGGCCAAAAAGCCGGGAGGGAGGAGCB

 G G G GACGAGAGGGGAAAAAAAAGGGGAAACAGAAAGCCAAGB G G A A A A A A A A A C G G TAAGGGGGGGCCGAAACCGGGACAAAAA G G A G G G G A G G G A A A G G A G G G A A A A $\mathcal{A} G G A G G G G G A A A G A G G C C$ T T G G G A G A G G A A G A G G A A A G G G A A A G G G A G A A G G A A C C A A G G $G G C A A G A C C C G A C C A A G G C C G G G G G G C A A G G A G G A G A C A G G A$ CAGAGAAAAAGGGGCACCAGGAAGGGAGGGAAGGAAGGAAGA GAGAACAGGACCAGAAGGAAAACACAAGAGAGAAGGGGAGAA G G G GCCAAAAAAGAAAAAGGAAGGAAGGAAAGGGACGGGGGA GAGAGAAAAAAAAGAAGGAAAGAAGGCCAGGGAAGACCAAGAG G G G GCCAAGGGGGGCCAGAAACAAAGGAAGAAGGAAGGAGAA AAAAAAGAAGGGGGGAGGCGGGAGAGGAAGGGGGAAAAAAAA G GAAAAAACAAGAGAAGGAAAAAGAACCCCACAAGGG
GCCGGAGCACAAGGACAAAGAGAGGAAGGAGAAGGAAAACG AAAGCAAGACAGGGGGAAAAGGGGGGCAAAACGGGGAAAAAA A A C A A G A C A $\mathcal{A} G G G G G G A G G G G G G A G A A A A A G A G G A A A A C A B A$ GGGAGACCAGAGAAAGCCAACAGAGGGAACGGAAAAAGACAT GCAAAAGAGAGGGGGGCCAAAAGGGGAACGGGAAAACGACAC
 GATTGAGAGAGGGGGGACAAGGAAGGGAAAGGAGAGAAGGGG A G G G GAGACAGGAACCACCCAGGAAGACGGGAAAAGGGGGGG A A A A A A G G G G A G A A G G G GAACAAAAAAAAAAAGGGGAAAAA G ACGAAACAATGGCCAAAAAGAAGGAAAAAAGGGGGGAACCGG A A G G G GCCGGAGGGAGGAGGAAGGGGGGGGAGGAAGAAACAA
 A GAACCCCGAGCAAGAGAGAGGCCGAGGAGAGCCAGAAGGGG A G GAGAAGGAACAGGGGGAAAAGGGGAAGGAGAACCAGAAAA A GCAAAAATTCCGGGGGGAAAAAAGGGAGGAAAGAACABAAG GACAAGGGGGAAAGAAGGCCGAAAAAGAGGAGAACAAAAAAG $G G A C G A G G A A A G A A G G A A G G A A G G A A A A G G G A A A A A A A A G G G$ GAAGGGGGAAGAGGGGAGCCAAGGAAAGAAAAAGAAGGGGGG A A G G A GA GAGCAAAAAGGAGGAGAAGGCGAGGAAGAAGCCCC CA GAAAAAGGAAAGACCCAAAAGGGGAAGGGGGGAGGGAGAC AGCAACGCGACAAGGGAGGAGGAGAGGAAGAAAGGAAGAAAG A GAGGGAAAAAAGGGAAGCCACAGAGGGAGAGGGAAAAGGCC A A A A G A G A G G A A G G A A GAGGAAAAGAAGAGAGAA GAAACA G G $A$ CAAAAGGGCAGGAGGGAAGGAGGGCAGGGAGGGAGAAGGGGG G GAA A G G G G G G A A A CAAAA A CA A A G G GAA G G G G G G G G G A A A A $A G C C G G C A G G A A G A A A G G G A A G G A G G G A G A C C C C G G G G G A G A$

A A A G A G G A A G GAGAGAGGGGAGAGGACCACACGAAGACAGAA G GAA $\operatorname{G}$ GAAAACCCAAGAAGGCAAGAAGAGAAAGGGGGGGGGG $G G A G A A A C G G C A G G G G G A G A C C A G A A A A G A G G A C G G C A C C G A$ A GCAGGGGAAGGGGGAGAGAGGAGACCCAAAAGGGGGATACC GACCAGCCGGAGGGAGAAGAGGCCAAGGGAAGCCGGCGBACC C C A G G GACAAGGGGGGAGAGCCGGAGGGAGGAAGGGAAAAGA A A G G G G A G A G A G A C A A G G G G G G A G G G G G A A G A GACC G G T T A A A G G G A A A A A A G G G GCC G GAGCCAGGGGGCAGGCAG GACAAA G
 ACAGCCAGAAAAAGAGAGGGAGAAAAGGAAGGAAAAGGAACC G GA GAA A A A G G GACAAAGAACCCCAAGGAAGGGAGGGGGGCA C CAGAAAGAGAGGAGGAGAGCAAGGGAACAAGCCAGAGGGGG ACAGAGAAGGAGAGAGACAGAAGAAGAGACGGAGAGAAAGAA A A G A G A G G A G G G G G A A A A G G G A A GAAGGAGAGAAGAAAAAAA G G GAGGCCCCCCAGGGCCAAAAGGGGAAAAAAGGGGAAGGGG $G G C C A A A A C C A A A A A A A A A A C C G G A A G G A A G G G G A A G G G A G G$ G G GAA ACCAAGAGAGATAGGGGCACACAAGGGAAAGCAGGAA G G G A G A A G GA G GAAAGAAAAAGGGGGGGGGAGGGCAAAAAAC $G G A A G G A A G A G G G G A G G G G G G C A G G G G G A G A G G G G A A A A G A A$ A A G G G G A A G G C A G G G G A A A G A G A A G G A A G A G G G G C A G A A G G A GAAGAAGGGACCGGGGGAGGAAAGAGAAAGAAAGAAAGAAAC C C C GA GAGAGAGCCAACCGGGAGGGAGAATGGGAGGGGAGAA A A G G G A G A C C G GA GACAAGAGGGAGACCAACAGGGGGA GAAA AAGGAACCAGGGAGACGGGACAAGAACCAAAAGGGGAAAAAA GCAGGGACAAGGGGGGAGAAAAAACCGGGGGGAGGAGAGGAA G G G GAGGAAAACGACCGGAGCCGGGGGATTAAGGAAGAAGAA AAGGCCAACCGAGGAACACCAGGGAGGAGGAAAAGGAGAAGG C C G A A A C C A A A G A GAGAAAAAAAAGGGGAAAAGGAGGCACAC G G A A C A A GCAAAAAGAGGGGGGAGCCACCCAAGGAAGAAAGG GAGCGGAAGGAAGAAGGGAGCCAAGGAAGGACAGAAACGGGG G GAA A G G G G G A G G G C C G G G A A G A A A C A A A GAC G G G G G G C C G G G GAACAAGGGGGAGAGGGGAAGAAAAAGCCAGAAGGACGGAG $C \subset G A A A C C A A G G G A A A A A A C A G G G G G G G C C G G A A A A A A G G A A$
 G G A A G A G A A G G G G A G G A A G GACTAGGAACCAAAGGAAACC G G GAGACAGGCCCCAAAAAACCGGCCAAGGGGGGGBAAGGGGGG
 G GAGAAGGAGGACCAAGAGGAAGGGAAGGAGGAAAAGAAAAA A A A A G A G A GAAAGGAAGAAGCAAGAAAGAGGAGAGGGAAAG G A A A A A A G G G G G G A A A A A A A A A A $\mathcal{A} G G G A A A A G G A A A A G G G G G G$ G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A G G G GAAAA $A$ A G G G G G G A A A A A A G G G G G G G G G G C C C C C C A A G G G G G G G G A A C C A A AA $\operatorname{Ag} \operatorname{Gg} \operatorname{GAA} A A A A A A A A G G A A A A A A A A A A A A A A G G A A A A G G A A$ AA G GAAGGAAGGAAAAGGAAAACCAAAAAAAAGGAAGGGGCC A A A A A A A A G G A A A A A A G G G G G G A A A A G GAAAAAA A GAA G GAA $G G A A A A A A G G G G G G G G A A A A A A G G G G G G G G A A A A A A C A A A A A$ A A G G A A G G G G C C G G G G A A G G G G A A A A G G G G A A C C G GAAAC G G G GAAAA $A \operatorname{A} A A A G G G \operatorname{A} A A G G G G A A A A A A C C A A A A A A G A G G G G G G$ A G G GCCAGGAGAAGGGAAAAAGGAAGGGAGAGGGACCAGGAA
 A G G A G GAAA A A GCCAGGAGGGGAAAAGAAAAGAGGGAACCAA GAGAACAGGACCGGCCGGCCAGGAAGCAGAGAGAAAGGAGAA A C A A A G A G A A G A C A A C G GAGCCAGAAAAAAGGACGAAAAGA G
 GAACGGGGAAAGAAGAGAGGACGAGAAAGGAAAGAGGGAAGA G G G G A G A G A G G GA G G A A G A G G G G G G A A G C C CA G GAAA A A A C C GAAGGAGGAAAAGGGGGGCAAAGAGGGGGAAAGAAACCAA GA A A A A A A G G A G A TA G G G A A G G A A A A A A A G G GAAA A CA GA G C C C AACAGGAGAGGAAAAAGGAGAGGACAGAGACAGAGACAAGAG

A GAGGAAGGGGGGAAGGAAGAACCGGAGGGAGGAAGAGAAAG GAGAAGAGGGGGAGAGGAAAAAAAAAAAAAAAAAAAAA GA AAA A A G G G GCCGGAAAAGGCCGGGGAAGGGGAAAAAAAAGGAGGA GAGAGAGAGAGGAAGGAAAGTAAGGGAGGGAGGAGGGGAGAG GAAAAAAAGGAAAACCGAAGAGGGAAGGGACCAAACGAGGGG A A A A G GCA $\mathrm{A} G \mathrm{G} G \mathrm{G} C \mathrm{C} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A G A A A A G G G G A A G G A C G G A G$ GAACGGGGAGAGACAGAAGAAAAGAAAACCGGAACCACAGAA $A C A A G G G A A A G G A A G G T T A G A A G G G G A A G A A A G G A A A A G G A A$
 G GAAGAGGGGAGGAGGAAAAGGGGAAGGGGGGGAGAGAAGGG AAACAAACGAACAGAGGAAAAGAGCCCATTAAAGAAAGAAAG CA $A$ A $\operatorname{GAA} A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A C A G A A A G G G G A G G G G A G A G G G G G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAACGAGGAAGAGGAA A A G G A A A A A A A A G G A A A A A A A ACCCCCCCCAAACAAAAGGAG A G GAGAAGAAAGGGAAGGAGACGGAAGAGGAAACAGAAAGCC AAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGAACAAGAAGA
 G G G GCCCCGGCCAAACGGAAAAAAGGAAGGAAGAGGCCAGGG AAAAGGGGGAAAGGCAAAAAGGGGGGCAGGAAAGAAAAACAA A A GAAACCGGGGAAAAGGGGAAAAACAGAAGGAA GGGGAGAA AAGGAAGGGGGGAAAAAGAGGGAAGAGAAGGGCCAAGGGGGG G GAA $A \operatorname{GAA} A G A A G G A A A A A A G A G G A A A G C C C C G A A G C A A A G G$ G GCA $\operatorname{G} A A \operatorname{A} C A G A A A G A A G G G C A A A A A C A A C G G G G G G G G G G G G$ A A A A A G A A G G G G G A A A $\mathcal{A} G A G A A A A G G G G A G G G A G A C A G A A G G$
 A GAGGGGGAAGGGGAGAAGAGAAAAAAAAAGGAGACGGGGAG A GAGAACCCCAGAGGGAGGGGAAGCAAGGAAGAAAGAGAAAG AC G G A A G GAGGGGACAGGAGCCAAAAGGCCCCAAACAAACAA A GAA A G G A A A A A A A GAAGCGAGAAAAAAAAGGGAAAA GAAAA GACCCCAGCCGAGACACAAAGAAGACAGGAGAGGGGTTGGGG A A A G G A C A A A A A G G G G G G A A A A A A A A A A C CAA G GA G G A C C G G G GAAGGAAGGGGAAAAGGGGAAAAAAAAAACCAAGGGGAACC A A A A A A A A G G A A A G G G G GACGGAGAAGGGGAAGGAAA
A A A A A G G G A A GACAAAGGAACAAAGAGGGAAAAAGGGAAAG GGCCAGAAAACCGGGGCCCCCCGGAAGGAAAGAGAACAAAGB A A A A G G A A G G A A A A A G G G C C G G T T G G G G $\mathcal{G} A A G G G G G G G G A A A A$ AAA ATTGGGAGGAAAAAAAAAAGGGGGGAAGGGGGGAAGGAA G G G G G GAA T T G G A GAAAAGGGGGAGGGGGGGGGGAAAAAAAA A GAGCCGGAAGGAAAAGGTTAGAAAGCCAGCCAGAAGGGGGG A A A A C C A A A A G A A A GA $A$ A A A $\operatorname{A} A G A G A A G G G G G G G G A A G G G G G G$ A A G G G G G A C A A G A GAGGGGGGGAAGGGGAAGA G GAA A A G G G G A G G GAGAGAAGGGAGAGGAAGAGAGACGGGGAAAAAAAAGAAA AAGAGACCAGGAAAGGAGAAAAGGCCAAGAGAACAAGGGGGG G G GACCAGAAAAGGGGAGAAAAGGGGAAGGAAAAGGGAAAAG A A A A T T GAA $A$ A A A A A A T TA $A \operatorname{AGGGGGGGGAGGACAGGAGGGGG}$ ATAAAGGAGAGGAAACAGAACCGGAAAAAAAAGGGAAACCBG A A G G G A G G A A G GAA A GAAAAAGGACGGAAGGCAGAAAGAACAG AAGGAAGGAAAATAGAAGAAGGGAGGAGGAGAAAAAAGATCC AAAGACGAGGGGGGGGCCAGAAGAGAAAGATTGGGGGGGGAA G GCC $C$ G G GCC $C$ G G G G G G GAAAAAGGGGGAGGGACAAGAAAAA C C G G A GA $\operatorname{CAAAACGGGGAGGGAGAGGGAGAAAAGGGGGAAAT} T$ G GAAACAAGACCAAAAAAGGAGAGGAGGACACGGGGAGAABA
 $C \subset C C G G G G A G G G G G G G A A G A C C G A A G G A A G G G G G A A G G A C A G$ GAGGAAAAGGAGCAAAACAAGGAACCAAAAAAGAAGACAAAG GACGAGAAAGGGCCAAACAGAGAAGGCCACAAGAGGGAAACC A G G G GAGGGGGGCCAAAAAAAAGGCCGGAAGGCCAAAAGGGG A A G G G G G G G GAACCAACCAAAGATAAAGAGAAGAAAGAACAA GGGAAAAGGGCCACAGGGCCCAAAGGAAGGAGGGAACACAAC

G GAA A G G G G G G GAGGAGGGAAACCAGGGGGAGGGAGAAAGAA A A GACAAAAAAGAAGGAAGAAACCGAAGAAGAAAAACAGGTA A A A GAACCGGAAGGAAGGGACGCAGAGGGAGAAAAAAAAAAA AA G G GAAATTCAAAAAAAGAAAAAGGAAGGAGGAAAAAGGGG AAAAGGGGAAAAGGAGGAGAAAAACCAAGGAACCCCAAGGAG A A G G A A A G A A T T G A A G A A A A A A G G G G A C A A A A A GA G G G C A C C GAAA $A$ A $A$ A $\operatorname{A} A A C G A A A A A G G A A A A A A G G A A A C A A A G G A G B A$ GGGGAACCAAGGAACCAAAAACCCAAAGGAAAAGGGAAAAGA A G G G G A G G A A A A A A A A G G A A C C A A A A A A C C GAA GA GAG G G A A C C G G G GA G CA G G G G A A A A A GAA A GAAGAGACC GACCAA G G G G G GAGGGACAGGGGGGGCCAGAGGAGAGAAAGGGAAGCAACBG G G TAACGGACGAGGAGAGGAGGAAGGGGGAGAAGAACCAGAA A G A A A C A A G G G G A G G G A A GAGGGAGAGGCCCCAAGGA GAAAA G G G GAGTACCAAAAAATAAGGAGAAACCAGACAAAAGGAAAA AAAAAAAAGGAAGGGACCCCAGAAGGGGGGAGAGAAAAGAGA G GAGGGCAAGAGAAAAAGGGGGAAGGGGAAAACCAAGGGGAA GAAAAACCGGCAAGGGAGCCGGAGAAGAAAAAGGGGAAGGAAA A A A A G G G GCC $C$ G G G G A G A A G G G G G G G G C C A A G G G G G A A A A G G A G GAGGGGGGAGGGAGAAAAGGAGGAAGGCCACGAGAAAGGGA G GCAACGGAGACAGAAGAGAGAGAGAAAACAACCGACGAAGB AGAAAAGGGAGGGGAGCCGGACAACAGGAAAAAAAAAGAAAA AAAAACGGGGAAAGAAGAGGCCGGAGAAGGCAAAGAAACAGG G G G GAAGGCCGAAAGGAGAGAAACGGACGGAGAAGAAAGGAA
 A G G G A G A G G G A A A A G G A A G A A GAGACAA A A A G GAC C G G G G A A A A G G A A G G G G GAGACCAAGGAAGGAACCAAAAAAAAAAAGEG $C C G G A A G G A A G G G G A C A G G C G G G G G G G A A A A A A G A G G G G G G G$ G GAAGGAAAAAAAGAAAGACCCGGGACAGGAACCAAAAAAAA AAAGACAGATAAAAGGAAGAACACAACCGGAAGGAACCGGGG $C C G G A A A A A A G G A C G G A G A A G A A G G A A A A G G G C C G G A A A G A G$ A GAACAGGAGGACGGAGGACAGGAGGAAAAGGAGAAAACAAA G G G GAAAAGGAAAAGAGGAAAGGAAAAGGAGGGGAAAAGGGG
 GAAAAAGGAAGGAAGGCCCCGAAAGGGGCCGAAAAAAAGGCC GAGAGAGAAAGGAGACGGGGACGGAAGGGAGGCCAAAAAAAC G G G G A GCC G G G A A G A G G G G A A G C C C C G GA GA GA G G G A A G G A A G GAA $A \operatorname{GAA} A G C C G G A A A A A A G G A A G G A G G G G G A A G A A C G G C C$ AAAAGGAGAAAAGAAGGAGGAAAAAAAGGGGGAACAAAAAGG A A G G G A G A A A A A A A A A G GAAA A A C C C C C G GAAAA G G GA G GA G
 GGAAAAAACCAAGGAAAAAAAACCAAGGAAGGAAAAAACCAA
 G G G GCCAAGGGGGGGGGGAGAAGAAAACGCCACAGAGGCCGG
 G G A A G G A C A A C C C C A G G G G G G G G G G G G A A G G G G G G G G A G G A $C$ G GAGAGGGAAACAGGGGGGAAACAAAAAAAAAGGAGGAGGGA A A GAGAAAAAAAAAAAAAGGGGCAAAGGGGAAAAGGCAAACC G GAAAGGGAAAAAAAAAAAAAAGGAAGGAAAAAAGAAAAGGG G G G GAA A G G GCCGAAGGGAGAGGGGGAGGGGGGGCAGAAAAA A A A A A CAGGCAGGAGGCAGGAGCCAGATAAAAGAAGAAAAAA G GAGAGCCAAGGGGCAGGGGAAGGGAAGGGGGGGAAAAAGCC G GAAACAGCCAAGGACGAGGAAAGAAAAGGAACCGGAGAAGAG G G G G G GCAAGAACCCCAGAGCCGAAGGGGGGGCCGAAAAAGG G G GAAAAGCCGGAAGGACGAGGGGAGAGACAGAGAAAAAAGA A A A A GAGAAAAACCACGGGGAGGGCCCCGGAAGAAAGGAGAA G G G G G G G A A G G G A A A G G GAAAAAAAAGGGAAAAAACCAAAAA GAAGGGCCAACCAACACGAAAGGAGGGGGGAAGGAGGGAGAG A A A A A A A A G G A G A GAACAAAAAAGAAGGAACC GATTAAAACC $A C G A A G G G G A A G C C A G C A A G G A G A G G A A C C G G G A A G C C G G G G$

CAAACCAAACCAGAAAAAGGGGCCAAAAGGCCCCCACCGGAA A A GA $\operatorname{A}$ GAACCAGGGAGGGGAAAAAAGAAGGAACCAGAGAGAA A A A A A A GAGGGGGAAAAAGGCCCCGGAAAAAGCCAAAAAAAC GAAAATAAAAACGGGGGGAAGGGAAGAAGGCCGGGGAAAACA A A G G G G G G A A G G G G GACCAGAACCAAAAAAAAAAGGGGAGA G G G G G G G G G A A G A G G C C G GAGCCCCAAAAAAAAAAAAAA G G CA
 $A G A C G G G G A A A G G A A G G G A A G G G A G G A G G G G A G C G A A G A G A A$ A G G GCA $\mathrm{C} G \mathrm{G}$ A A A A A C C G GAAGGAGGAAAAGATGGGGGAAGAA GAAAGGAAAGAAGGGGGGACAAGGGGGGCCCCCAGGAAGAGA A A A A TAGC GAAAACAGGAGGAAGGAAAGCCAGGGGGAACCGG A ACCCCCCGGAAAAAAACAGAAAAAAGGGAGGGGGGGGAAGG C GCA G GACAACCAGGAGGAAGGAAAAGAAGCAGAAAACBGCC

 ACGAAGAGTAAAGGAGGGACGGAAAAAAACAGAAAGAAAGAG
 A A A G A A G G G G G G A A G G G A G G G G A G A A G A A A A G A A A A G G C C G A A A GAAAGGGGAGGGAAGGAAGGCCAAAAAACGGGGAACAGAA A GAGCAGGAGAAGGACGGCAGGAAGGAACCGAGGGGAACABA G GACAGGAAGACGGAGGGAAAAAAGGGAAAAAGGGGAGAGAA C CAGAAGGAAAACCAGCGAAGGGGAACCAAGGAAAAAGAGCA
 A A A A G G G G G G A G A G G G A A G G G A A A A A G G A GAGGGA GA GACAA A A A A G G G A A CACGGAGCCGGAAAAGGGAAGAAAAAAGAATAG GAGGAAGGAGACGGAGAGCCAAGAAAAGCAAAAGGGGGAGGG AAAAAAACACGGAGGGGGAAAACCCAAAGGAAGGAAGGAGGG A A A A A G A A A A A GCCAGGAGAGAACCCGGAAGAACAGCCGGAA G GAA $A \operatorname{GAA} A A G G A A A A A A G G G G G G G G C C G G A A A A G G A A G G G G$ G GAAGGAACCAAGGCCGGGGGGCCAAGGAAAAGGAAAAGGGG
 G G G G G G T TAAAAAA A GAAGGGGCCAAAAAAAAAAGGGGGGGG A A A A A A G GAAGGGGGGAAAAAAGGAAAAAAGGGGCCA
ACCAAGGAAGGAACCAAGGAAGGAAGGAAAACCAAAAGAAA C CAACCAAAAGGGGAAAACCGGGGGGAAAAAAGGAAGAAACC G G A A A A A A G G CCGGGGAACCAAGGAAAAGGAAAAGGCCAAGBG $C C G A A G A A G G C C G A G C A A G G G A G G G A A A A A A A A A G G A A A A G A$ A GAA $A$ A $G A A A A A A G A G G A A G A A A A G G G G C C C A G G G G A A G G G G$ G G G G A A C A G G G A C C A G G GAA $A \operatorname{AGCCAGAACCAAGGAGAAGGAA}$ G G G G A A A G A A G G G A G G G A GAGGGGGAAAGGAAAGAAAAAAA A GAAGACAAGAAAAGGAGAGAAGAAAAAAGGGGGGAAGGAAAA A A G GAA A G G G A A C G A G A A A A G G GAGAAAAAAGAGGAGAAGAA G G G G G G G G G GAAGGAAAGGGACAAAAAAAAAACCAAAAAGAA AAAGAAGGGGGGGGGGCACAGAGGGGCAGAGAGGAACAAAAG A A A GAGGGGAGAGGGGAAAAGGGAGAGACAACGAGACCAGAC C A A A A A A A GA $\operatorname{A} G A G A G G G C C A A G G C A G G G G G G G G A A A G A G A A$ G G A G G GAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGGCCAA AGGGGAAAGGGGGGAACCGGGGAGGGGGAAGGCCGGAAAAAA AAAAGAGGGGGGCCGGGGCAGGGAGACAGGGGGAAGAGAGAA A G GAAACCAACACAAGGGGGGGAAAAGGGGAAAAGGAAAAAA A A G G A A G G G G G G G A A G A A G GAA A GAAAAACCAACC G G G G GA G G $A C A G G A G A A G G A A A G G G G A A A A A A G G A G C A G A G C A A G G A G A A$
 AGAAAAGGACAAAAGGGGAGCCGGGGGGGGGAGGAAAAGACC $A \subset A C A G A G G G A G A G A G G A G G C A G G G G G G C C A G A G A G G B A A A A$ G G G G G G A G G G G G G G A A A A G G G G A A A A G G G G G GAAAA A GAAA A G G A A G G G G G G G G G GAAAAACCCCGAGGGGGGAAAAAACAAA G G G G G GCCCCAAAAAAGGGGAAGGCCAAAAGGGGAAAA G G G G A A A A A $C \subset G G G G G G A A A A C C G G A A A A C C G G G G C C A A A A A A G G G G T T G G$

G G G G G GCCGGGGCCACGGAAAAGGACAAAAGAAACAAGGGGG G GACAAAAAGGAAGGAGGGAGAAAAAACAAGAGAAGGAGGGG AA $\operatorname{A} A A G A C A A A A G G A A G G A G A G A G A A A C G G A A A A A A G G G G A G$ A G G GAACCAAGGAAGGGGAAGGGGGACCAAGGGGGGAAGAGG G GAACCCCGGGGAACCAGGGGGAGAAAAACGAACGGAAAAGA A A GAAAACGGACACGGGGGAGGGGGGCCGGCCAAAAGGGGAC GAACAAGAAGAAAACCGGGGCCAAGGAACCGGAAAAACAAAA $A C A A A G G A A A G G G G A A G G G G C A G G A A A G G A A A A G G A A A G G G G$
 GGGGAAAAGGACAAGGCCGAGGAACCAACCAGGGAGGAAAGA


 A G G G A G G G G G A A C C C C G A A A A G G CAAAAAGCCAGCCAAAGAC AAAGAAGGCCCAAACCAAGGAAAAGGAGGAAAGGAAAAGGAG ACATAGAAGGGAAAAAGGAAAAGGCCAAGGAAAACAAAAAGB G GACGGGGAAAAAAAAAGGACAAAGAAGAAAGGGAAAAGGGG GAAAAGGGAAGAAGACAGGGGAACGAGGGAAGAAAAAAAAAA AGAACCCCCCGGGAACACAAGGAAAAAGGGGGGGGGAAAAAA C C G G A A G G A A A A G G C C G G G A A C G G G A A GAAAGCGGG GA GAAA AGGGGGGGGGAAGGGGACAGAAAGGGAAAAAAGAGAAAAAAG A GAA A G G G A A G A A C A A A G G A G GAGGAGGGGAGGGACAAAGCC
 A A G G A A G A GAA A $A \operatorname{ACC} C G G A A A G G G G G A A A G A A G G A G T A G A A A$ G G G G G A A G A A G A G C G A A G A G A G G G G A G A A G G G G G G G G G G G G G G GCAAGCAAGAAGAGAAAGGGGAAGGAACAAGAGAAGAGAAA
 G G A A A A A A G G A A A A G GAGGGAGCCAGAGAAGGGACCAGAGAA C C A G G G G A A A A A A A G G G G G GAA $A \operatorname{GA} A G G G A G G A G A A A A A C A A A$ A G G G G GAGCCAGGAAAAAGGAAGGAAAAAAGGGGGGCCAAAA G G G G A A A A A A $\mathcal{A} G G G G G G G G G A A A A C C A A A A G G A G G A G A A A A A$ G G G G G G G G A A C C C C G G C C A GAA A G GAGAAGCCGGCCAA G GAG
 G G G G G G G G G G G GA G C A A G A GAGGGGGGAAAGAAAGAAAAAGA
 $G G G A A G C C A A G G A A G G G G G A G G C C G G G A G G G A G G G A A G G G G G$ G G A A G A A A A G G G A G G G G G G G G A A A T T C C C C G G G G G A G A A G G G G G GAGGGGGGAGAAAACCCCCCAAAAAAGAAAGGACAACAAA A A A A A G A A G G A A A G C C GAGGAACCGGGGGGAGAGAAAAGGGG AAAGACGCAAGATTAGAAAGCACAAAAAAGAGGAGAGA GAAA GAAGGGAGCAAGGGACGCGGAACCGGGACACAAGTAGGAAGG A A G G A A A G ACAGAAGGACAGACGGCAAAAAAAAAAAAAGGAC GAAAAGAAGGCCGGAAAAAGCCAAGGAGGGAAAGGAGGAGAA
 A GAGAGAGAGAAAGACAGAAAGAGACAGAGGGGGCCCCACCC GAGGCCACACGAGAGACCCCAAAAAAAAAAAAGGCAAGGGGG C C G A A A G G A C A A GA G G GAGGCCGGAAAGGAGGCCAA GAGGCC AAGGAAAGGACCGGCCGACAAAGAAAGAGGAAAGAAGAGGAG AAAAAACAACGGAGCCGGGAAAAAAAGGGGAAAGGGGGAGAG G G G G A A G G G G A A C C A A GAA A A A G G G G G G G GAAAAAA GAAA A A A A A G G G A A A A A G GAGGGGAAAGAGGGGAGAAACAACACAAAAA C C A G G G TA A A G GAAGAAAGGGGAGGGAAAAAAGAAAAAAGA G G G G A T T C C G G C A A G A A A A GACCCCAAAGGGAGGGAACACAAA G GAAAAACAAACCAAGAGAAGAGGTTACGAAAGAAGCCAAAG CAGAAACCAGAGGGCCAGAGAAGACCGGGGGGGGAGAGAGAA GAAAGGAAAAGGGGGGCCGAGGAAGGCAACGGAACAGGAAGAG G G GAGGGGCAAGAGGAAGGCACGAGGGGAACAGGAGAAGAGA A A G G A G A G A G A G G A G G G A A A G G G A A A GAAAA A A A A A A G G G G A A G G GAGAGAAGGGGGATGGCCAGGGGGAAAAAAGGAGAGACCA

G GCAGGAAAAGAAGGGAAAAGGCAGGGAAAAAGGGGGGGGAC G G G A G G A GCA G A A G GAA $A \operatorname{AGGCGGGGAGATTAGGGGACCAAAA}$
 G G G G G GATCAGAGAGGGGACGAACAAAGAAAAAAGGCCAAAA T TAAAGGGGAATAACCGGCCGAAAAGGGAGGGAGAGAAGAGA
 A GACAGGGCCGGAGGACAGAGGCACCAGGGAAAAAAAGAACC $G G A A A G A G G A G A A G G G G G A A A A A A G G A A A G G G G G A A G G A G A A$ G GAA $A \operatorname{GGGAA} C \subset G G A A G A A G C C A G G A A A A G G G A A G A G G G G G G$ AAAAGGGGAAGGAAAGAAAGGGAAGGGGAAGGAACCAGAGAG GAAAAGCAAACAAAGAGGGGAAGGACAGAAGGAAGAAAAGGG G GAGAGGGAGAAAAAGAAGGAGGGAGGGCCGGCCGGAAAAAG GAGGCCCACACCGGGGAGAGGGGGCCAAGACAGGGGGAAGAG G GAAAAGGGGAGGGAACCACAACAAAGGAGAGGGAAAAAACC G GAA A A A C A GAAAAGGGGCCGGGGAAGGGAGAGGAGGGAAGA A A G G G GCC C G GAGGGGGGGGAAGGAAAGCCAAGAGGCCAGGA A A G G GAGACCGGAAAAAGAAAAGGAGGAGGAAGGAGAAAGGG G G G GCA GAGGAAAAAGAAACACGAGGAAGAGAAGGAAAAGGG AAACGGGACCAACAGGGAACCCAAGAAAGAGGAAAAAAAAGG A A A G A A A A G G A A A A G G G GAAAGAAGGAAGAGGAAAACAAAAA G GCCAAAAGGGGAAAGAAAAAGGGAGAAGAAGACAAGACAAA $C \subset G G A A C C A A G A A G G A G G G A G G G G G G C C G G G G A A G G G G G G C C$ G G A A A A G G G G G G G G A A A G G A A G G A A G G G G A A C G G C C G A A G G G G G G A A A G A A A G G A G A G G G G G A C G G G G C C A G A A G G G G A A G G G G
 G GAAAGAAAGAAGAAGAAGAAAAAAAGACAGAAAAGACAGAG CAGACAAAAGGGGGGGAGAAAGGGAAGGCAGGACGGAGAAAG A GAA A GAGGAAAAAGAGAGACCGGCCGGCCAAAAGGAAAACC $A A G G A A A A G G G G G G A A G G A A G G G G G G A A A A G G G G A A G G G G G G$ AAAA A G G G A A G GCCAAAAAAGGAGAAGGGGGGGGGGGGAAGA G G G G G G A G G A A G G G G G C A G A A G G G C A C C A G G G G G G A G G G A G G A GAGAAGGAGGAAGAGAGGAGGAAGAGGGGAGAGAGAGGACC A A G G A GAGGGAGGGAGACAAAAAAACGGACAGGGAGC
A G G G G A A A A C A A A GACAGAGGGAGGGGACAAACAGAAGAAA C CAC G G G G G GAAGGCCGACCAGAAAAAAAAGGAAAAGGGGAA G GAA $A \operatorname{GCC} G G A A A A A A A A G A G A G A G G G G G A A C A A A A G G A A G G A$ A A G G A G G G G A A G G G A A G GAA A G G G G G G A A A A G G G G A G A A G C A A G GAGGGGACCCACGAGGCAGGAGGAGGCCAAAAGGGAAAGA A A A A C C G G A G A A C C A A G GAGAGAGAAACGGGGGGAAGAAC G G
 C C G A G A A G G G C CA $A$ A A A A G G G G G C C G GAGGGAAA A A TA GA G G G G G G G G A G G G G C A C C C C A A G G G G A G G A G G G G A A G A A A A A A A A G G G GACCAACCAAAAGGGGAGAGCCGGGACCCCGGAAGGGAAA A A A A G GAAAAA A A A $A \operatorname{A} G A T A A G G A G G G A A G G G A A A G G G G G G A T$ G G G G A A A C G G G GAA A $\mathcal{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A G A G G A A A A G G A G G G G G G$ A CAGAAAGAAAAAAGGGGAGAAAAGGGACCGCGGGGGAAGAG $G G A C G G G G G G G G G G C C G G A A A A A A A A A G G A A G A A A A G G A G A A$ C C G GAACAAAAGACGGCCAAGCAGAAGAAAGGGGGAAAAAGG AA $\operatorname{A} G \mathrm{G}$ GAAACGGAAGGGAAGAAGAGGAGGGAAAAAAAACCGG G GAA A A CA $A \operatorname{AGGAGGAGAAAGGGAAAAAAAAGGGGGGCAAAGG}$ A GAGCCAGCAGGCCGAGGAAGGGGCAAAACAGGGAAAGAGAG A GAACAAGGAGAGAAAGAGGGGGGGACCGGGGAGGGAAAACAC
 $G G C C A A A G G G A G A A G G G G A A G G G G G G A A G G G G G G A G G G G A G A$ A A A A A A A A G G G G G GAGGGAAAGAGAGGGACAGAA GGGGACAA A A G G A A G G G G G A A G G A G G G G A G A A G G G G A G A G G G A A A A G G G G A A A A G G G G G G A G A A A A A A G A A A A A A A G GACACAGCCAAAG G G A A A A A A C C G G A A GCAACC GAAAAAAGGGCCGGCAAAAGGGGG G G G G C C G G A C A G A G A A G G G G G G G G G G G A C C G A A G G C A A T T C C

G G G G G G A G A A A A A A A A G G A A A A A A T TAAAAAGGGGGGGGGC
 AAAAAAGGGGAAAAGGGGCCGGAAAAAAGGCCGAAGGGAGGG A A GAA A GAGGCAAAAAGGGAGGAAAGAGGGAAGAAACCCAAA $C \subset C C G G A G A G A G G G C A A G A A C C G G G A G A G G A A C A G G A A G G G G$ A A G G G G A A $\mathcal{A} G G G G G G A G G G G G G A A G G C C G G A A C G G G A A A G A A$ A A A G A A ACCAAGAAAGAAGGAGGGCCACAAAGGGAACCCAAA ACAAGAAGAAAACACAAAAGGGAAAAAAAAGGAAGGAAAAAA A A G G A A A A T T A A A A G G G G G G A A C C C C G G A A G G A A G G A A G G A A G G G GAAAAGGGGAAGGAAAAGGAAAAGGGGAACCAAAAGGGG G GAA $A \operatorname{GCCA} A A A G G G G A A A A A A G G G G G G A A A A G G G G A A C C G G$ C C A A A A G GAACCCCAGGGCACCGAAAGGAAAAAACCGGGAGG G G G G A G G A G G A G G G G G A A A GAA $A \operatorname{GGGGAAAACCCCAAGGGGGG}$ G G G GAAAAAAGAGGCCAAAAAAAAGGGAGAGAAAGGGGAAGA AAAAAACCAACCAAGGGAGGGGAAGGGGAAAAAAAGAAAAAA G G GAA $A$ A A $\mathcal{A} G G G G G G G G A G C A G A A C G G A G G G A C A A G G G G B A A$ C C GAGGGGCCGAAGCAGACCGGAAAAAAAACGCGGGGAAAAA A A GA G A G A A GACAAAAAAGGAAGGAGCCGGGAAAAG GAAGAA $G G A A A G G A G G G G G A G G G G A A A A G G G G A G G G G G G A A G A A G G G G$ G GAA A A A A A A G G G G G GAAGGAAAAAAGGCCAGGGAAAAA GA G AAAAAAGGGGAAGGAAAGAAGAGAGGCCGGAAGGAACGGGAA G G GAGGGAAGACAACCACGGGAGGGGGGAAGGGGAAAAGGGG AACCGGCCAAGGGGAAAGAGGGAAGAAGAAGGCCGGAGAAGG
 AACCGGGGAACCAAGAAGGAGGAAGGAAAACAAAGAAAGGAA G G A G A GCGAAA $\mathrm{C} A \mathrm{~A}$ GAAAGGGGGAGAGAGGAGGGGACAGCCGG G G G GAGACGAGGACAGAACAGGAAAAGACAAAGGGGGGAAAA G G GAGGGGCCAAGAGGGGAACAGGGGAAAACCGGCCCCBAAA A A G G A GA GAGAGAAAAAGGGAAGGAAGGAGCCAAGGAGCGAA A GAACCAGAAAAGGAAAAGGTTAAAAGAAGGGGGGGGGAGAA A A G G G A G G A A A C G A G G A G G A A G A G A A G G A G A A A A A TAA $\mathrm{A} A \mathrm{~A}$ A G G GAACCAAACAAAGGGAAAAAGAAGAAACCAAAGACCCGGAG A A G G G A A G G G A A A G G GCCAAGGAAAGGAGGGAAAACA GACAA GAAGGGGGGAGGGGGGGGAGGGAAGAAAAGACAAGAAAAAGA G G A A A A A A G GAGGGTACGCCAAAGGGAGGGAGAACCCCACGA A G A G A A G A GAA G C C A A C A A A A GAGTTGGGGAAGGGGAAAACC A GCCAGAAACAGCACGGGGAGGGGGGAAAAAAAAGGGGAGAG AGCCCCAGAAAAGGAGAGGGAACCCCAAGGGAGAAACCGAGG G G G GCCAGAGAAAACCGGCCAACCGGGGAAGCAAACCCAGAG G G G G G GC G A G G A G A G G G G A A A G G G CAA $\mathcal{A} G G A A A C A A G A C A G G$ A GAGGGCAGACAGGAAGAAGAAAAGGTTCCGGGGCCCCAGAA G G G G A A GAGGGGGGACAAAAGAGAGGAAGGCGAAAGGAGGGG GAAGGGGGAGGGAAAAAAGAAAAACAGGGGAAAGAAGAAAC G C C G G G A G G G G G G G G G G G A A G G G A G A G A A A A G G G A A A G A A A G A A A A A A A A A A ACC G G GAAGGGACACAAGGGGACAAAAGAGACC A GAGGGGAAACAGGAGAGCAAAGGCAAAGAAGAAGGGGAGAA A ACCAAAGAGCAGGAGCCGGAAGGAAAGAAGGAAACGAAGBG A A A C A G G A G G G G G G G G A G G G G A G G G A A A C G A C A A A G G G G G A A A A A A A A A A G G G G G G G GAGAGAAACAGAACCGAGAGGTTAAAA GAGGAGGGCCCCGGAAAAGAAGGAGAAAAGGAGGGGAGAA GA GAAGAGAAAAGACAGGGAGAAACCGAGAGGCCAAAAGAGAAG C C C C A CAGAGGGGGCGAGGAAAAAAGGGGGAAACGAAAACGG
 GGCCGAAGAAGGGAGAAGCAAGGGAGAGAAGGAAAAAAGGAC G GAA A GAAAAGAGAAAGAGCAGGAGGGAGGGAGGCAAAGAAA C C A A A A A A G G A A A A G G GACACAAAAAGGGGCCGGGAAGAGBA A GAAA A A $A \operatorname{AGGGGA} G A G C A A C A A G G G G G G A A A A G G G G A A A G C C$ G G G G A A A A A A G G G G C CAA $A \operatorname{ACC} C G G G C A A G G G G G G G G A G A A A A$ GGAGAAGAGAAGGAAAAACCCGGGGAAGAGAGAAAGGGGGGA

G GAGAACCGAGGGGAAAAGGAAAAAGGAAGGGAGCAAAAAAG
 G G GAGGAGGGAGAGAGGGGGAAGAGATAAGACGGAGAAAAAA A GAA A A A G G G GAGAAGGGCCGGGGGAGAACGGGGAGAAGGCC AAAA $A \operatorname{A} A A G G A A G G A A A G G G G A A G G A A A A A A A G A G G A G A G G G$ G GAA $A \operatorname{GAA} A C G G A G C C G G G G A A T A G G A G A G A A G B A A G G G G G G$ ACAAAAGGGGAGCCAAAACCGGAAGGCAGGGAGAAGAGACAA AAAAAGGGGGAGAGCACCAGGAAGGAAGAGGGAGGGCAAAAA C C A A A G G G G G G G A A G A A A $\mathcal{A} G G A A A A G G G G G A A G A A A G G G G C C$ G GACAAAGAAGAAGAAGGGGCACCGACGGAAAGGGGGACAA G AAAGAAGGTTAGAACCGACCACGGGGAAAAGGGGGAGGAGAA A A G G G GACAGAGGGGGAGGACCGAAGAAGGCAGAGAAAAAAG
 G G G G G G C C G G G G G G A A $\mathcal{G} G G G G A G G G G A A C A G A A G A G C A G X T T$
 GAAGGAAAAGAAGGCCAAGGAACAGGGGGGATAAAAAAAAGA
 GACCAGAGAAGAAAAGAGGAGGGAACAGACAGCACAAAGGGG AAAAAAAAAAGGGGAAGGAAAAAAAAAAGGAAGGAAGGGGGG A A G G G GAA A G A A A A A A A A G G G G G G A A A A C C G GAAAA A C G G G G G G G GAAAAGGGGGGCCAAAAAACCAAGGAAGGAAGGAAGGCC A A G G A A A A G GCCAAAAGGGGGGGGGGGGCCGGGGGGAAGGGG G GAAGGAAAACCCCGGAAAAGGAAAAAAAAGGAACCAATTGG G G G G A A A A A A A A G G C C G G G G C C A A A A A A A A GGGGCCAAAAAA G G G G A A G G A A G G G G G G G G A A G G G G C C G G G G A A A A A A C C A A C C AAAAGGGGAAAAAAAAAAAAGGGGAAGGGGCCCCCCAAAAAAA G G G GCCGGGGGGAAAAAAGGGGGGGGAAGGCCGGAAAAAGCC G G G G G G G G A A A A T T A A G G A A G G G G T T G G C CAAAAAAAAAAAAA AA G G G GAAAAAAAAAAAACAAAAAGGAAAAGGGGGAAAGGAG $G G A A A A G G A A G G G G A A C C A A G G G G A A G G G G G G G G G G G G A A A A$ G G G G A A A A G G A A A A A A G G G G A A G G A A G G A A A A A A A A G G G G G G G G G GCCAAGGAAAAAAGGCCAAAAAAGGGGAACAAAGGCAAA G GAACCAAAAAGCCGGGGGGCCAAGGGGAGAAGGCGC
A A A G A A G G A A A A G G G G G G GCCAGGGGAAGACGAGAGGAGAC G GAGAGCCGGAAGGGAAGGGAAGGAAGGAGAGGGGAAAAAAG A A A A G A A G A A A GAGAGAGGGAGAGGGAAAAAGAAGGAA GAAA AAAAAAGGAAGGGGGGAAGGAAGGAAGGAAGGCCCAAACCBG AA $A G G G A A G G G G A A A A A A A A A A A A G G G G A A G G A A A A C C G G G G$
 A A A A G G A A A A $\mathcal{A} G G G A A G G G G G G G G A A C C G G G G G G A A A A G G G G$ AA $A G A A G G A A G G G G A A C C G G G G A A A A A A A A A A A G G G A A G G A A$ G G A G G A A G A A G G G G GAA $A \operatorname{GA} A G G A G G G A A G G A G G A A A A C A A A$ $G A C C A A C C A A G G G A G G C C A A G G A G A G A G G G G G G G A A G G A G G G$
 G G A G G A G G G G G G A G A A GAA A G GAC GA GAAAAAAAGGAAAAGA G

 G G G G A G A G A A G GAGGAAAGGAAAAGGAGGAAGCACACAACAC G G GAGGAAAGGGAGCCAAAAAAAAGGGGAAAAAACCCCCCBG A A G G A A G G A A A A G G G G A A A A C C A A G G G G G G G G G G A A G G A A G G C C C C G GAAAAAACCGGGGGGAAGGGGAAGGGGGGGGGAAAGG A A A A G G G G G GAAAAC CAAAGGGGAAAAGGGGGGAAGAAA GGGG A A G G G G A A G G G GAA $A \operatorname{G} G A A A A G G A A G G A A G G A A A A A A G G G G A A$ C C A A G G G G G G G GCCAAGGGGAAAACCAAAAAAAAAAAAAAAA A A G G A A A A A A G G G GAAAA $A \operatorname{A} A A A G G G G T T T T A A C C G G G G C C G G$ G GAAGGCCAAAAAACCGGCCGGAAGGAACCAAGGAAGGGGCC G G A A A ACCAAAACCGGAAAAAAAACCGGCCAAAAGAAAAA G G C C G G A A G G A A G G G G C C G G C CAA A G A A A A A GAGA A A A A A G G T T G GAACCAAAGAAAAAAAGAAACAAGGAAAGGAAACCAAGAAA

G GAAGGGGGGGAGGGACAGAACAAAAAAAAAGAGGGAGAAAA A A GAAAAAGACAAAGGCCAAAAGGGAGAAAACGGAAGGAGAB C C A G G G A GAAAATTGGGGCCAAGGGGCAGAAACCGGCAGGGA A GCAGAAAAAAAGGAAAAAAGAGAGGGGGGAGACAGAGATTA GAAAAGAGCCGGAAGGGGGGAATTAACCGGAAGGGGGGGGAA AAAAGGAAGGAACCGAAGCCAAGGCCAAAAAAAAGGCCAAGG G GAA $A \operatorname{GAA} C \subset A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G G$ A A A A A ACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGGAA G G G GACCCGGGAAGAAGGAACCAGAAGAGAACGCAAAAAAGB A A A A A A A A A A A A A GAGAGAAAAAGAAGAGAGGGAAAAGGGG TACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAAA A A G GAAGGGAAGAGAAGGAACCGGAAAACCGAGGGGGCAAAA G G G G A A A A G G C C A G A G G G A A GAGGAGGAAGGGCCGAAGAA GA
 AA A GCAGGAGGAAAGGGGAACAAGAGAGAACCGAACAAAACC A GCAGCGACCAGAGAAGAGGCGGGCCAAAGGGGAGAAGAGAG $A \subset A C G A C C A G G A G A A C G G G A A A G G G G G G G G G G C C A A G G A G A A$ GAGGCAGGAAAAAAAGGGACACGAGAGGGGAAAGGGCCAAAA AA GAGAAAAAGGGAGACAGAGAGGCCGGAAAGAAAAGGAAAA CA $A$ A A A $\mathcal{A} G G G A A A C A G A C G G G G G A G G A G G G A G G G G G C C A B A A$ G G GCAGGGAGAAGAAGGGACCACCGGCCAAGGAAGAAAAGAG AAGGGGAAGGAAGAAGAATACCCCGAAAACAAGGAGAAAAAA A A A G A A A A G G G G G GAAAAAAACCCGGGGGGCCAAAAGCAAGA C C A GAGGGAAAAGGAACCAAGGCCAAGGAAGGGGGGAAACAG A A G G A A A G G A G G G G A G A G A A C C G G A G G GAA A A G A A A A A G G C G GAAAAAGGAAAAATAAAGGGGAAGAAGATTAAAAAAGACACA AAGAAAGGAACCGACCAAAAAGGGGGAAAGAAAAAGGAACGG A GAGCAATGGAAGGGGAAGGAAAAGGGAGGAACAAAGGGATT A ACCAACCAAAAAAGAAGAGAAGGGGAAAAAGAGAGCAGGGG AAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCBGAA AAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAABAA A GAAAAGAGACAAATAAAAAGAGGAAAAAAAACCAAAGAGAA A GAACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGGAA A A A A G G A G A A G A A G A A A A G G C C C C G G G G G G A G G G A C G A A A G G G G G G A C A G A A G GAAAACAGCGGAGAGCCCCAAAGGAACAGAG G G A A A C G G G GCCGAGGGGAGAAAAAGGGGGAAAAAAAAAAAA AAGGAAAACCAACCGGGGCAAAAGGATTGAGACAGGAGAGCC A GAGGGCCACAGGGAAGGAAGAAAGGAACCGGAAGGAAAGAA A G GAGAAGCCGGAAAAGGAAAGGAGAGGGAGAGGAGAAGGGG C C G G G A G G G A G A A G A G G G A A GAGAGGCCCAGGAAA GAA G G G G GAAAAAAAAAGGAAGACCGAAGGGGAAGGAGGAAGAAGAA GA CAAAAAAAGGAAAACCGGAAGGAAGGAGGGAAAAAACCAGGG A A G GCGGGGGACAGGGAACCAACCAGGGAAGGGAGGAAGAAA GAGGAAGGAACCAAGGATAAAGGGAAGAGAAAGGCCGGGGGG A A A A A A G GCGCACCGGAGCCGGGGAGAAGGAAAAAGAAACAG A G A A A A A A A G G A A A A A A A A A GAGGGAGGGGAAAAAAGAAAAC G G T A C C A G G G C C G G A G C C G A A A G G G G A C A A G G C C A G G A G G A A C CAA $A \operatorname{GAAACGGAAAGAGGGGGAAGAATCCGAGGAAAACAAA}$ AAAAAAGGGGAAAAAACCAAGGGGAAAAGGCCGGGGGGAAAA G G G G G GCCAACCGGGGGGGGGGGGGGAAAACCCCAAGGAAGB $A A G G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G G$ $G G C C A A G G G G A A G G C C A A A A C C A A A A A A G G G G C C A A G G G G G G$ G GCC G G G A G A A C A C G G A A C C A A G G GAA G G G C G G A G A G A A G G A GAAGAGAGCCGGAAAAGGAAGAAGACAGGCAGAAGGGGAGCA G GAAAAAAGGGGAAGGGGGGAAAAAGAAAGAGGGAAAAAACA G G G G G GAGGAAAAAAAGAGAGAGAAAAAGGGGGGGAAAAGGG A G GAA A A A G G G G G GCCCCAGCCAACAGGGAAGGGAGACACAG G A A A G G G G A A C C G G GA G G C CAAA A GACC G GAG GAA G G G A A G A $A G A G A G A G A A A A G G A A G A C C A A G G G A C C G G A A G G C C C C G G G A$
$C \subset G A G G A A A A G G C C G G C C G A G G G A A G G G C C G G G G A A G G A A A G$ C CAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A}$ GAAAAAGGAAGGGGAAGACCAGAAAAAAGGAA A A G GAAAGCAGAAGGAGGGGCCAAGGGGCCAAAGAACAAGAA CACCACATACCCCCAAAAAAAAAGCAGAGGAAGGGGACAAAG G GAA $\operatorname{G}$ GAAAAGGAGGAGCGAAGAGAGAAGGACGAGGAAAGCA A A G GCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAAGAG G GAA $A$ A A A A G G GAA A G GAAAAGGAAAAAGGAGACAA GAGGCA C CAA $\operatorname{C} G A A A A G G G A A A A G G G A G A A G A G A G G A A G G G G A A G G G G$ A A A A G G G G G G A A G G G G A A G G G G A A A A A A G G CACC GACAAAA C A GAGAAGGAAAAAACAGAGGAAGGCCAGAGAGACCAAGGGGG A A G G G GAAA A C C G G G A A G G G G G GACAGAAGGGAA GAAACAAA A A G G C C A G A G A G A G G G A GAGGGGGCAA GTTGGAAAAA GAA G G A G GAGAAAAAAACCGGAAGGAACAAAGGGAGGCCAGAAGAAG $G G A C G G A G G A A A G A C A C A G G A G A G G A A G T A G A A A G G A A A A G G$ C CAACCGGGGAAAAAAGGAAAAGGAAGGGGAAGGGAGGAGGA $C \subset A A G G G G G G A A G G G G A A A A G A G G C A G A G G A A G G G G A G A G G A$ G G G GCCAAAAAAGGAAAAAAAAAAGGGGGACACAAAGGAGGA G G A G A G C G G G G G G G G G G G G G G G G G A A A A CA A A G GAACAAA G G G G G GCCGGGGGGCCGGAAAAAAGGAAGGAAGGACGAGGAAAA ATGAAACCACGGGGAAGGAAGGACACGAGACACCCAAGATAG AAGAGAGGGAAAAGGGAGAAGGAACCGAGGGGAGAGAGGGGG G G G G T T C A C G G G G G G G A A C A A G G GCC G G A G G G A A G G G G A A G $G$ A GACGAGAGAAGCGAGGGGAAAGGGGAGGGGGGAGGCAAAAG
 A G G A G A A G A A G G G G G G G G A G G A C C A GAACCGGCAAAAAA A G A A A G GAA A GACCCGGGGGGAACCAAAATTCCGACCGGAAAAAA A A A A A G G GAGGAAGAGAGAAAAGGGGGGGGCCGAAAGAAGAA AAACGAAAAGGGCAAACAAAAAGGAAAAGAAAAGGGGGAGAA A A A A C CAGCCAAATGAAAAAAACCAAGAAGCGAGBAAAGGGG AACACCGAACGAGGCCAAGAAACCAGGAAAACAAAAGGGGGG A A A A C A C A G A A A C A G A A A G G A G A A GAAA G G CAA G G A A A G G A C G G G GAGCCAAGGGGAAGGGGCCAAAGGGAAGGGGGGAAAAAG $C \subset C \subset G G A A A A G A G G G G G G A G A A G G G A G G G G A C C C A A G$
GAGAAACAAAGGGAAGGGGCCAAGGAAGGAAAACCGGGGGG CAGAAGGGAAAAAGAGAAAAGGCCAGAGGGAAGACCGGAAGA G G A G A A A A G G A G A G A A A T C C G A A G A A G GAATTAAAAG GAAC C ACAGAAAAAGGAGAAGAAGGAAGGAGGAAGCCAAAAAAGGGG $C \subset A A G G G G C C A A A A C C A A A A G G A G A A G G C C A G A A A G A C A G G C$ G G G A A A A G A A A A A A C C A A A GAAAA $A$ A A G GA GAACC G G G C G G C C CACCCCCCGGAAGGACGAGGAGAGAGAAAAACCCAAAAGGGG $G G C C G A A A A A G G G G A A G G A G G C A A G G A G T T G G A G A G C A A A A G$ A G G G G G G A G G C C G G A A A A $\mathcal{A} G G G G A G G A A G G G G G G A G C A A G A C$ A GAAGAGAGGGAGGAGGGAATTGGAAAAGGAAGGGGGGACAG G G G A A G G C A A A GAGGGAGGGAGCCCCAAGGAAGAAAGGCCGG C C G G G GAC G GAACAAGGAAAAAGGGAGAAAGAAAAAAAAGGGG $A C A G A G G G A G A G G G G G G G G A A G A A G G G G G G G G A G C A A A G G A G$ CCGGAAAAGGAACAGGAAGAAAAGGCGGAGAGGAGAAGAGAG A G GAGGAGGGCCGGAAGGACACAGCCCCGGGGAGACGGGAAA G GAA A A A C GAGAGAGGGGAAGGAAGGAAGGGGGGGGAAAAAG A GAACCGGAGACGGAAGGGGAAGGCCGGGGAAAACCAAGGCC C CAACAAAGGAAAAGGACGGGGAGAAAACCAGAAAGGGAAGAA $A G C C G G A A G G A A A G G A A A A A C C G G G G A A G G A A A A A A G G A A G A$ GAGGAGACAAGGGGGAAAGAAAGGGGGAAGAAACGGAAAAAA AAAAGGAAGGAAGGAAAAGGAAAAAAGGAAGGGGAAAAGGGG G G A A G G A A G G G G G G A A G G G G G G C C A A A A A A G G G G G G A A G G G G A A A A G G G G G G G GAA A G A A A A A A G G G G G GAACCGGAA A A C G G A GAAACCTAGAGAAGCCGGGGAAGGAAGGGGAAAAGBAGAGAC G G A A G G A G G A A G G A G G G G A A G GA GAA $\mathcal{A} G G G A G A G G A A A G G A A$ GAGGGGAAGAGGGAAGGAAACCGGCCAAAACCAAGGAAGGAA

A A G G A A A A A A A A A A A A A A A A G GTTGAGGAGGGGAAAGGA GAA
 A G GAACAAGGGGGACGAGAAAAGGCCAAAAAAAAGGAAGGCC AAAAGGGGCCAAAAAAGGAAAAGGAAAAAAAAAAAAGGGGTT G G G G G GAA A GAAATAAACGGGGAAAAAAAAGGGAAAAAAAAG C C G G G G G G A A G G G G A A G GCCCCAGGGCAAACCAAAAGAAAAG
 $G G A A A A A G A G A G G G G A A G G G A C G G A A A G G G A A A A A A G G A A A G$
 AGGAAGGGGGAAGGGAGAAAAAGAAACCAAAAGGGGAAAGCA
 $A G T T A A G G A G A G G G G A G G A A G G A A G G G G A A A G A A G A G G A G A A$ AAGGAAAAGGCCAGAGAAAAAAAGACACGGAAAAAAAAAAGG A A A A A A A A GAGGAAAGAGAAAAGAAGAGGGAGAAAGAAACAA G GAACCGAAGGGGGGGAAGGGGAAGAGGGACAGGCAAGAAAA AATTAGAGCCACCAAGGGACGGGGCAAGCCAGAGGACCAAGAA A A G G G G G GACGGAACCAACCAGGAAGAAGAGAAAAAAAAAGG G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAGG $G G A A G G G G A A G A A G G G G A A A A A A G G G C C G G A G A A A A A A A G A G$ A A G G A G A GCACAGAAGAGGGAGGGAAAGGGGGAAAACCCCBA GGAGCCGGACAGAAAAAGAAAAGAAAAAGAAAAAAGAAGGGG G GAA $A \operatorname{G} G A G G C G A A G A C C G G A A G G G G G A G G A A G G A G A G G G A A$ GACCGAAGAGAAGGAGGGGGGGGGAGAAAGCCGGGGGGAGAA G GAA A G G G A A CAGAAACAAGAAAAGAGAGAAAATGGGGAA GA G G G GAAGGACAAAAAACCGGCCAGACGGGGACAAACAAAAAA A A GAGGAAGGGGAAAGGGGAGGAGAGAAATAGACCAAAAAGA ACGGAAAAGGGGATAGCCAGGAAAAAAAAAGGAATTACAAGA A A A G G A A G G G G GAGCCGAGGGCCCAACCGGGGGGAAGAGGAA CAAAGGAAAGGGGAAAAACCGGCCGGAAAAGAAAAGAAAAAA ATAAGGAGAAAACCAACCGAAGACAAAAGAGGGGGAGCACGAG ATGAAAAAGAGGACGGGGAGGGGGGAGGGGCCGGAAGAAGAA GAGAGGGGGAGAGAAAAAAAGAGAAAGAAGGGCCAGGAGAAA G GCCAACAAAAGAGGGGGGGACAAGGTAAAGGCCAAGAAAAG A A GAAACCGGAAAAAACAAGAGAGGGAGGGCGAAGGCCACAA A GAAAGACCCAAGGGGAAAAAAAAAAGGAAAGAAAGAAAAGG A A A A GAG G G A A A A G GAGAA A A TA A GGGGAAAAGGGAAGG G GAA AAAGAAGGAGACAGCCGGGGAAGGAAGGGAGAGAAAAGAGAA G G GAAAACGGCCAAAACCCCCCGGCCACGGCCGAGGAAGGGA GACCAGGAGGAAAAAGAGGGAAAGAGGGAAGGAGGACCBGGA
 G G G G A A G A G G G G G G C C A A G GA GA $\mathcal{A} G A G G G G A A G A G A A A A G G G$ A A G G G A A A $\mathcal{A} G G G G G G G G G G G G A G G A G A A G G G G A G B A C A X A A G$ G GAAGGAACCAGGGGGGGAGCCAGAGAGAAGGGACCAAGGGG A A GACCAAGGAAAAGGGGGGAAGGAAAAAGCAGGAGAACAGG G G G A A A A G A A A A G G G G T T G A G G A C G A A G C A A G A GA G G G C C G G
 $A G C A G A G G A A A A G G G A A A A A A G G G A G G G A A G G A A G A G G C C G G$ GAGGGGGGGAGAGGAAGAGGAGAGGGAAGGACAAAGAAGGGG A A GAAAGGCCAAAAGGGGAAAAAAGGGGAATTCCAAGGGGGG G G G G A A G G G G A A A G A A A G G G G G A A G G A A G G A A A G A A G G A G A A G GCCAAGGAAGGGAGGGGGGGGCCGGAAGAAGGACAGAAAAC G G G GAGAAGGAGCAAAGGAAAAGGAAAGAGAACACCAAAGAA G G G A G G G G A A G G G G G G C A G G G G G A G A G G A G G A A G A G A A G G G G AA $A$ A $G G G A G G A A G G A A G G A A A A G G A A G G C C G G C C A A G G G G G G$ A A G G A A A A A A G G G G G GAAAACAGGGGGGGGAAGGGGAA G GAA G G A A A A A A G G A A A A A A G G A A A A A A A A A A A A G GAAC C T T G G G G AA $A G G A A C G G G G A G G A A A A A C C A C A G A G G G A A G G A A G G G G A C$ A A A A G G A A A A G G G G G G G G G G G A A GA $A$ A A A G GAA $A$ A $G A G G G G C A$ $G A G G A A A A A A A G G A A G G G G G A G G G G G A A C C C C G C C C C C C A G A$
$A C G A A A G G A A A A A G A G A C G G G G A C A A G G A A G G A G A G G G G G G A$ A T A G G G G A G G G A A G A G G G G G G G A C A C A G A A A G GAC C A G G G G A C C G GAGAAAGCCGAAAAACCGGGAGAGGAAACAAAAAAACAG A GATAACCAAGAAGAAGGAAGGAGGACAGGAAAGAAGGCCCC A A A A A A T TAA $A \operatorname{AGGAGGAAAAGAAGAAAGAAGGGGGGGGAGA}$ GAAGCAAGAGAAGAAGGGCCGAGACCGGGGCCGAAGCGGGBA A G G G G GA G A G G A A A A G G A A A A G GAGGGAGAACAGGAAAAAAA T T C C A A A A A A G G G G G G G G G GAA A G A A A A G G G G G GAAAAAAC C A A C C G G G GCC G G A G A A A A A A G G A G G G A G G G A G A A G G C C G G G A
 G G G GAGAAAAGAGGAAGGGGAACCGGAAGGAAAAAGCAAAAG GACCGGAGAAGAGAGGAAAACCAAGGAAAAGGGGCAAAAAAA $G G A A A A C A G G A A G G C C G G A G A A G G A G G G G C A A C G G G C C A A G B$ G GAAAGGGAAAAGAAGGGGGAAAACCCCGGCAGAGAAAAAGAG A G G GCAAAGGGGAAGGGGAAAAGGCCGGGAAAGGGGGAAAAG G G G G G G G G G G G G G A A A G GAAAGAAAAGGCCGGGGGAACAAAA GAAGAAGGCAGGAAGGCCGGAAAAAGGAGGCCCACCGAAAAA GAACGGCCCCGGAAGAGGAGGGCCAAAAAGAAAAAGBACAAA $G G A A A C A C G G A G G A A A A A A G A A G G G G A A A A A G A C A A G G A G A A$ A A A A G G G G A A C A A A G G G G A A A A A A GAGGTTGGAAA GAA GAA G A GAGGGAGGGAAGGCAAGCCAAAAGGGGAGGAAGGAGAGAAA G G G G G G G A G GAA $A \operatorname{GCCA} A C C G G A A G G C C G A G A G A A G C C C C G G$ CAAAAAGGAGGAAAAGGGAAAAAAGGCCGAGGGACCACGGGG G G A G A A G G G G G C A G G G C C G G A A G A A G G G G G G G G G A A G G G G G G
 A G G A G A A A A A A GAGAAAAATGGAAAAGGGAGGGAGAAAAGAG A A GAAAAAGGGGAAAAAGGAGGGAGAAGAGAGAGGGGAGAAA
 GAACGAACAGGAGAAGAGGGGGGGAAGGCCAACCAAACAACC AGACGGGAGGAACCAGAAAGAAAGGAGGAAACAAACCCAGAG A A GACCGGGGGAAGAAAGGGGAAGGGAAGAAAAAGAAAGAAA GGCCAAAAAAGGAAGGGGCCCCAAAAGGGGAAGGGGAACCGG A A C C G G A A A A G GAA $A \operatorname{AGGGGGAAAAAACCCCCCAAGGA}$
AAAGGAAGGCCAAGGGGAAGGAAAAAAGGAAGAAAGGGGGG A A G G G G G G G G A A G G A A G GA A G G G G G G G G C CAA A G C CAA A GAA
 AAAAGGGGAAAAAAGGCCAAGGAAAAGGGGAAGGGGAAAAGG AA G GAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCGGAAGA A A G G G G A A A A C C G G A A G G G G T T A A A A G G C CAAAAAAACCCC G G G G G G G A A A A G G A A A A G G G G A A A A G G G G A A A A A A G G G G A A G G G G G GAAG GAAAAAAAAAAAAAAGAAAGGGGGAGGGAGACCGG G G A A C C G G A G A A A G A A GAA $A \operatorname{GGGGGGGGGGGCAAAGAAGAACC}$ A G G G G A G GAACCGGGGGGCCAACCAGAAGAGGAAGGCCAAGG G G G G A G A A G G A G G G G G A A G GAA $A \operatorname{GAACGGAGGAGAGGGCAAAA}$ A G G G G A G G A A G A GAGGAACCAGACGGAAAAGAGAAGAGAACC G G G A G G G G T T A GCCGGAGAAAGGAAAAGAACCAAAAAAAGGG A GAGGAAAGGAGAAGGGCAGCAAAGGAAAAAAGGACAGCAAA AAAAAAAAGGAGGAGGGGAAGAGGAAAGAAAGCCCAGGAAGG A A A A GAGGAAAAAGAAAGCAGAAGCCGAAAAAGAGAGGGAGA $G G C C A A A G G G A A A A A A G A G G G A G A G G G A A A A G G G G G B A A A A A$ $G G C C A G A G G A G G A A G G A A A A A A G A G A G G C C G A A G A A C A G A A A$ CACCAGGGGAGAAAAAAAAAGGTTAGGGACACGGGGGAAAAA A A A A G A G G A G A A A G G A G G G G A A G A A A A A A A G G C C G G A A G G A G A A A G GAAAAGAAGAAAGGACAAGGGGGGGGAAGGAAGGCAAA ACCCCCCCAGGACAAAAAGGAAAAAAGGAGGGTTAGCCAAAC $G G C C A A A A A G G G G G A A A G G G G G G G G A A G A A A A A G G A A G G G G A$ G G G G G G A A A A C A $\mathcal{A} G A G G G G G G A G G G A A A G G A G A G G G G G T X A A$ AC G A C A A A A G C C G A G G A A A GAGGGAAGGAGGGCCGGCCAAA G $A C A G A G G G G G G G G G G G A A A A A A G G C C A A C A T A G G G A G A G G G G$

GAGGAAGAGGAAACGGAAGGACGGACGAAGAAGAAGAGAACA $G G A C A A G G G G A A A A G A C A A A G G C C G G G G A A A A A A G G C C B G A A$ ACAAGAACAGTTGGAAGGGGGGCCCAGGGGCCACAACCAAGB G GCGAGAAGGGGAAGGGGAAGCAAGAGAAATTCCGGAAGAAA A A A A G GAAGGGGGGAACCAAGGAAGGAACAAAGAAGAAAACA C CAAAAAAAAGGGGGGAAGGCCAAGGAAAAAAGGAAGGAGAA
 A A A A A A A A A A G G G G A A A A A A A A GGCCAAAACCAAGGGGCCGG A A A A A A G GAA $A \operatorname{GGG} \operatorname{G} A A A A A A G G A A G G G G A A A A A A G G A A G A A A$ G GAAAAGGCCAAAAGGGGTTGGCCAAGGGGAACCCCGGAAAA G GCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGGAAGAAA G G A A G G A G A G G A G G G G G G G G A G T T A A G G G G A A A G C A A G A G A A G G G G C A A G A A G GA $\operatorname{A}$ G $\operatorname{A} A \mathrm{~A} G \mathrm{G} A A A A A G G G G G A A G G A A G G A A G G A A$
 $C \subset G G C C G G A A A A C A C C C C G G G G G G A A C C G G G G G G A A C A A G G G$ G GAGGGGGGGAAAAAAAAGAGGAGGGAAAAAGGAGGAAGAAA A A A G A C A G A A G G G G A A G GAA $A \operatorname{AGGGGGAACCGGAAAAGGGAGG}$ A A A A C C C G G G A A T T G G A A G G G G A A A GAGAGAAAA G GAA G GAA A GAGACAGAAAGGGAAGGGGAAAGAAGGGGGGAGAGAAAAAA
 G GAACCAGAGAAAGCCGGAAACAAAAGGAAAAGACCGAGAAG GAGGGAGGGGAAGGCCAGCCGGACAAAGAGAAGGACGGAGAA GAAACAGAAGAGGGAGGGGGAAGGAGAGGGGGGAAAGGGGGG G G G G A G A A A A C C A A G G G G G GA G A A C C G G C A A G G A A C G G G G G G A G G A A C G A C A G G G G G CA $A C A C C A A A A A G C C G A G G G G G G G G G G$ G GAA A ACCAGGACCGGGGTAAAAGACGGGGAAGGAAGGCAAA G G G GCCGGAAAAAAAAAAGGAAAAGGAAGGCAAAGGAAGAAA A A A A A A A A A A G GAA $A \operatorname{G} G A A G G A A A A A A A A G G C C G G G G G G G G G G$ $G G C C G G C C A A G G A A C C G G A A A A A A A A G G G G G G C C G G G G A A A A$ G G G G G G G G A A G G G G G G G G G G G G G GAACCAAGGGGCCAA G GA A
 G G G G G GAAGGGGGGAACCGGGGCCAAGGAAGGAAAAAACCCC G G G G G G G G G G G G G G G G G G G G A A G GC C A A G G G G A A G G A A A A A A A A A A A ACCAA $C$ C GAAAA $A \operatorname{A} A A A A A A A G G G G G A A G G G G A A A A A A$ G G G G G GCCAA G GAA A G A A C C G G G G A A A A C C G G G GCCAAAA G G $G G A A A A A A G G G G G G C C G G G G A A G G C C A A C C A A G G G G G G G G G G$ G GAA $\operatorname{G}$ GAAAAAAAAAAGGAAAAGGGGGGCCAACCGGAAAAAA G G G G G G G G A A A A A A A A G GAA $A \operatorname{AGGGAACCGGAAAAGGGGAGAA}$ G G A A A A C C A A G G G G G G A A A G G G A A A A GAGAAGGAG GA GAAA $A$ A G G A A A A A A GACCCAAAGGAACAAAAAAAGGGGGAAAA GAAC GAGGGGAAAAAAGGGGGGAGAGACGAACGGAAAGACAGAAAA G G A G A C A C A G A G A G A A A C G G A G G A A G G G G A A G C C G A A G A A G G A GACGGGAAGAAACAGGGGGCCAAAGGGCAGGGGAAGGAACA G G G G A A G G GAA $A \operatorname{GA} A G A A A A A A A A A A A A A G G G A A A A A A A A G A$ $G G A G G G G A A C G A G G A A G G A A A G G G G A A A A A A G G A G G A A G A G A$ GAGAGAGAAACCAACAAAGGGGGGGACAAGAGAGGGBAGGGG A A C C A GCA GA A GAGAGGGAAGGAGAAGAAGAGAGGAGGAAGA GAGGAAAAGAGGAAAAGGAGGGCCGGAAGAAGGGAAAAAAGG G G G GAGAAGGAGGAGAAAGGAAGGAAGGGGAAAAAGAAGGAG G A A A A GAA $A \operatorname{A} A G G G G C C A A G G A A A G A A G G G G G A A A A A A G A G G A$ G G G GAA A A GAGGAAAACCAGGAGGCCAAGGGGAAAAGAAAAA AACAGGGGAAGGCCGGCAAACAGAGGGAGAAGAGGAAAAAGAG AACCGGAGAAGAAGAGAGGGAAGGGAAAGGGGGAGGAAAGAA CA G A A A A A A A G A GAGGAACAAGGGCCGGAAGGAAAAAAAGAG G GAA A GAA $A \operatorname{A} A A A A G A G G C A G G G G G A A G A A A A G A G A G A A A G G$ A A CA A GAAAGAAAAAGAACAGGCAGGGAGGAAAAAAGGACAA A A A G A GCCGAGGGGGAAAGACCGGGAAGAAGGGGGGGBAAAC GAAGGAAAAAAAGGAAGGGAAGAAAAAAAAAAGGGAAAAAGAG A G G GAAAAGGAAGGAAAAAAGGCCCAAAGAGAGGAAAGCAGG

A A A G G GCAAAAAAGAAAGGGGGGGCCGGAGAAGGAAGGGGCC GAGGAGAGCCAGAACCGGGGACGACCGAAGAGGAAAAGGGGG GAAGAAAAGGGAGGAAAAGGAGCAAAGGGGAGAAA GAGAA GA G GAAAAAAGGTTGAGGGAGGAAAAGGAGGGGAGGGACCAAGA ACAAGGGAGGGACCGGGGCCGAGGGAGGAAGGGGAAGACAAA G G G G G A A GCCAACCAAGGACGGACAAGGCCGGAAAAAGAAGAG G G G G G G A T G GAGCCAGGGGACCGACAACAGGAACAGGGAGAA G G G GAAAAGGAAGGAGACGAGGAACCGAAGCAAGGAAAGGGG AAAGAACCAAGGGGGAAGGAACGAAACAACCAGAAGCAAAAA G GAAAAGGCCGGAAGGGGGGGGGGGAGGGGGGAAGAGAAGGG A A G G A G G G A G G G G G A A GAGGGGAGAAGGCCAGAAAAAC G GAA
 GAGGAAGGAAAAGGGAAAAAAAGGAGGGGGAAACAA GAGGAC GAAGCCGGAGAAGGACAAGGCCACGGGGGGAGGGGGGGGGGA G G GACCGGACAAGGAGGGGAGGGGAAAAAAAACCACAAAAAA G GAGAGAGGGGGAGGGAGGAAGGGGACCCAAAGACAGGAGAA $A C G G A A A G A A A G G G C C A A A G C C G G G G G A A A A A G A G G G B A G A C$ A A A A G A C C A G G A G G G G GAGGAAGGCAGGGGGGAAAAAAAAAA GAGAGGAACCAAAGAAGGGGGGGACCGGAAAAGGCCAAGGGG AAAAAGAAACGAGGAGACGGAAGGAAACAGGAGGAGAGAGAC AAGGGGGGGGAAAAGGAAGGGGAAGGGGGGAAAAAGAAGAAA
 A A G A T A G G G G T A A G G G C A G G G A A A A A GA $\mathcal{A} G G G A G G G G G A G G G$
 C C A A A A G G A A C CA GAAA A G GCCAGAGGAAAGGAAG GAACAAA AAAAGAAACAGGCCGAGAAAGGAAAAGAAGGACCAAGGGACC AAA A A A A A G G G GAGGAAAAAGGAAGGAGGGGGGGCAAAAAAC AACACAACAAAGAGAGAGAAGGAACCGGGGAGAGAAAAAGGG GAGGAAGGAAGAGAGAGGGAGAGAAAGGAGGCGGGGCCGGAA A G G G G GAGAAAACCGGAAAGAGAGAAAAAAAAGGGGCAAAAA GAAGAAAACAAAAAAAAAAAGGAAAAGGGGAAGGAAAAAA GA AAAAGGCAGGAAAGAAAAGGAAGAGAAAAAGGCCGGGGGGTT A GAAAA A $A \operatorname{A} G \mathrm{G} A A A A A A A A A G G G G G G G G G G G G A A A A A G A$
CAGGGAAGGAAAAAAGGGGGGGGAAAAAAGGGAACCAAAGG A ACCCCAAGGCAACGGGACCAGGGGAAGAAAAGGGGGGGGGG
 AAAAAAAAAAAAAAGCGAGGGACAAAGGGAACAGAAAAGAGG GAAAAAGGGGGGGAAAAAAAGAAAAGCCAAAGACGAGGAACC A A A A G GAAA $A \operatorname{Ag} \operatorname{A} A \mathrm{G} G A A A G A G A G G A G G G A A C C A A A A G G C C A A$ A A A A G G A A A A GAGGGAGAGGGAAGAAAGAAGGGAGGAAAA GA ATAGAAGGAAAAGGAAAAGGAAAAAAAGGGGAACGAGAAAAC G G G G G A A G G G A GAAAAAAGCAGGCCGGAGGGAAGGGAAGAAAG G G G GAGGAGGCCGAAGAGAGGAAAGGAACCAGGGAGAGAAAA GAGGAGGGAAAAGAGGCCGGAAAAAAGGCCGGGGGGAGAAAA A A G GAGGGAGAGGGGGAAACGACCGGGAAAAGACGGAGAAAA G G G G C A A A G G G G A A G G G GCCGAGAAGCGGGGGAA G GAAAGGCC AAGGGGGGGGGGGGGAAAAGAAAAAAGAGAAACCCBAAGGAA CAGGACCCAGAGAAGGAGCCGGAAGGGGAAAGAGAAAAAAAG ACAGAAACGGGGGACAGAAAAGAGAGAGAAACGGAGGGGGAC ACAGGGGGAAGAAGCAGGGGAACAGGCAAGAGAAAAGGAAAA C C G GCAA C G G A A A A A G G GAGAGCCAAACGGAGGGAGGAAAAA A G G G GAGAGAGGGGAAGGACGGCCAAAAAGAAGAAGAAACAA G G A C G A G G G G G A A A A A A GAGGGGACCAGAACCAGGAA GAGCC CAAACCAGCACCAAAAAAGGAACCGGGGGGAAAAGGAACAAA AACAGGCCGGCCAACCAGAAGGAGGGAAGAGGAAAAAAAAGA AA $A$ ACAGGGGCCAAAGCCAAGGAAAAGAAGAGGGAAAAGGAA C CAAAAAAGAGGGAAAGGGAGGAAGGGGAGAAAAAAAAAAAA G GAA A G A A A A G G A A G G G G G G A A GAGGAAAAGGAG GAAGAAAA $C \subset A T G G A G A A A G G G A A G G G G G G C C T A A A G G A A A C C C A G A G G A$

AACAGGGACCACGGGGGGAAGAAAGGGGAAAGGGAAAGGGAG G GACACCAGAAAGGGGCAGAAACCGGAACCAAGGAAAGEGAA G G A A G G G G A GAGGAGGGGAAAAGGAAAAGGAACACAAA GAAA $A C G A G G A A C C A G A G G G A A G G A A G G C C G G A A G G G G G G A A A C A A$ A G GAGAGAAAAGAGAGAAAAGGCCGGAACCAAGGAAGAAAGA G G G G G A G G G G T T A A A G G G G G G A A A G G C C G G A C A G A A G G A G A G
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 G G GACAAGAAAAGGGGAGCCCCGAAGAAAAGGGGAAGGGGGG A A GAAACAGAGGCAAAGGGGAAAAGAGAAAGCCCAAACAAAA AACCAAGGGAGGAACCAAGGAGGGAGCCGGACCAGAGAAACC $G G C A C C A A G G G C G A C C A A A G G G A A A A A A G G G A G A A G A G A G G G$ GACCGGGGAAAAGGCCGGAAGGAACCCCAAGGAAAAAAGGAA C C C C G A A A A A A A C C G G C GAGGACAGGACAAAGGAA GAAA GAA

 A G G G A A A A A A A A A G GA $A \operatorname{GG} \operatorname{A} A A A G G A A G A G G G G G G G G A A A G A A$
 G G G A A A A G A A G G G G G G A GAGGAAGAAGGTTAGGGCCGGABAA AA $A$ A A G G G G G G GAAAAGGAAGGAAAGAGAGCCAAGGGAAAAA A A G GAAAAAAAAAAAAAAAAAAGGGGGGGAAGGA GAGGAGAAA G G G GAGGGCCAAGGACGGAAAGGAAAAAGGGGCCGGAGAGAC AACGGGAGCAGGGAGGAAAAAAAAGAGAAACCBAGAAGGGGG A G A A A A A A G G G G A A A GCC GACCAGGGAAAGAGGAAAAA G GA G $A C C G A G C A G A G G G A A A G A C C A G G G A A G G G G C C A G C C A A A G A A$ AACCAGAAACAAGGAAAACCCACCGGAAAAGGAAGACCCCCC GAAGAAAACAAAGGAGAGGAAGGAACGAGGGGACGGCAAGGB A A G G A A GAGGGGGGAAAGGAGGGGAGAGGAGGGAAGGAAAAA
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A GAAAGAGGGGGAGAGGAAGAAGGAGAAAAGGGGAAAAGGGG
 G G G G A A A G A A G G G G A A A A G G G G C C G GCCGGGGAGCAAA G G C C G GAA A A G GAACCAGGGGGAGAAAACAAACAAGGGGAAGAAAA AAGGGGGAGAAGGGAAAACCGAAAGGGGAAAACAAACC GAGA GAGAGGGGGAGGAAAGGGCAAAAGGGAGGGAAAAGAACAGGG GAAAACAGGGAGCCATGGAATTCCAAAAAGGGAACGCAAGAC A GAA A GAGGAGAGGGAAAGGTTAGAAGGAAAAGGGGAAAAAA A A A A G G A A A A G G G G A A A A G G G G A A C C A A G GAAAAAA A G G G A A G G G G G GAAAAGGAAAACCAAGGGGGGGGAAGGGGGGAAAAAA G G G G G GAA A G A A C C G G G G A A A A A A A A G G G G G G G GC CAAAA C C C CAACCAAGGAAGGAAGGCCCCAAAAAAAAAAAAGGGGCCGG G G G G G G A A A A C C A A G G C C A A G G G G A A A A A A G G A A A A G G G G G G A A G G G A G A G G A A A T G G A C G A A A A A C C G G A A A A A A G G G G C C G G AA G GAAAAGGAGAAGGCCCCAAACAGAAGGAGGGAAAAACCC A GTTATAGAAAAGGAAGAAGGGAGAAGGGGCAAACCGGAAAA C C G G G A G A A C G A G GAAAAGGGAAAAACCGGAACCAAAAAAAA A A G G A GAAAGAGAGAAAGAGGGCAAAAAGGAACCGGAAGAGA GAGGAAAAGGCAGAAAGGGGAAGGGGGGAAAAACGBAAAAAG A A A G A A A A C C G A G G G GACCAAAAAGGGGGGCCAAAAGAGAAG G G G G GAGAGGAAGGGGAGAGAAGAGAGGAAGGAAGGGAGAAA G G G G G GAGGGAGACAGAGAAAGAGAGTAGAAAAAACAGGGGA G G G A A A A A C C A C G G G A G G G A A A G G G G G G G G A G G G A A A A G A G G GAAA A $A$ A $A G G G A A C C G G G G G G C A C A A G A A G G A A G G G A A A A A G G$ A G G G G G G G G G A GAAAA $A \operatorname{A} G A G A A A C A A A A G G G A G G C B A A A A G G$ GAACAACCGAGAGAAGAGGAGGGGAGAAAAGGACGGGAAAGA G GAGGGAGGGGAAAGAGGGGGAAGGGAAAAACAGAAAAAAGA $A G C C A G A A G G G G A G G G A A A T A A G G G G G G C C A A A G A C A G G G C A$
 G G A A A A A A A A G GAAAAAAAGAGCCAAGAAGAGGGAAGAAAAG G G A A G G A G G G C C A A $\mathcal{A} G G G G G A A C C G G G G G G G G G B A A G G G G G G$ G G G G G G G GAACCAAGGAAAAAAGGGGGGGAGGAAAACCACAA AACCGGAAGGCCCCGGAAAAAACCAAAGGAGGGGAGG
G G GACAAGAAGGGAGAAGGCCAAAACAGACCGGAACCAACC G G G G G A C A A A C C G G G G A A A GCCAGAA GAGGCAAGAAGAGGCC C A G G A G G G G G A A G G A G G G A G C A G G G A G G A A G G G G A G A A G G A A A A A G G G G A G GAAAA A GAAAAAAAAGGGCCGGGGGGAAAAGGGG A A A A G G G G G GAACC $\mathcal{A} G G G A G G G G A A A C A G G G G A A A A G G T T G G$ G G G G G GAGAAAACAAAAAAGACGGCCCAAAGAAAAGAGGAGG
 A A A A G GAAAAGAGGGGAAAATTAGAGGGGGAGGAAAAACAAA
 AGGAGAAACCAGAGGGGGGAGGAAAAAAGGAACCAAGAAGAA A A A A G G G G A A G GA G A A A A G G G A G G A GCC GAGGAAAA G G G G A A $G G A A A A A A G G G G A A A A A A G G C C G G G G G G A A G G A A C C C C A G A A$ G G A A G G G G G G G G G G A A C C C C A A A GAAGGCCAACCACCCGGGG GAGAGGGACCGAAGGGGGGGTTGAGGAAAGCAGAAAACAAAG A GAGAGGAGAAGAGAAAAAGGGGAGGGGAAGAGGAACAAAAA G GCCGGAAGGGGAGGGCAAAGGGGGACAAGAAAACCGGGGGG $A C C C A A A G G G G G A A A A G G A A G G A A A G A G A A A G G A C A G A A C A A$ C C G G A A A A G G G G G G C A A A A G G G C A A A G GAAA A A A G G G A T T A A A A GAGGCCGGAGGGCCAGAAGGCCGGAAGGAAGAAAGGCCGG
 G GAGAAAAGAGAGGAACCGAGGCAAAAAGGAGGGAAAAAAGG G G G GAAAGGGCCAGGAATAAGAAAAAAAAGGACCGGAAAAAA CAAAAAGGGGGGAAAAGGGAAAAGCCAAGGGAGAAGCCBCGG GAAAACGGAGAACAAAAGGAGCGCCAGGCAGGACAAAGAGAA A A A A A G A C A A A G G A A A G G A A CAGGAAGGAGAGA GAA GA G G C C $A A G G G G A C A A G A C C G G G A A A G G G A G A A G C C G G G G A G G C A A G G$

ACGGGAAAGGGGGAGAGGACAGAAAACCAAGGGGAGGGAGAA
 G GAAAAAAGGGGGGAAAACCGAAAAACGGGAAAAGGGGAAGAG A A A A A GAAAAGAACAAAAGGGGGGGAGAAAAGGGGAGGAGAC G G G G G GCC G G G GA $\mathcal{C} A A G G G G A A A T A G G A G G G G G G G G A A C C G G$ G GAA A GAA $A \operatorname{GGG} \operatorname{A} A A C C G G G G G G A A G G A A A A C C A A G G A A A A A A$ $G G A A A A G G G G G G A A G G A A A A G A G G G G G G A A A G A G G G A A A G T T$ AAGGCCGGAAGGAGGGAAAAAAGGCAGGAGCCAAGAGAGGGA A G G G G A G G A A G GAA $A \operatorname{GA} A G G G A A A A A G A A G G A A G G A A G A A A G A$ GAACACAAAGAGAGAAAAACCCAAAGCCGGGGTTGAAAAAAA AAACAGAAGGAACCAACCGGAAAAGGAAGGGGAAGGGAAAGG G GCCGGGGACCAGAAAAAGGAGAGACAGGAGGAAAGAAAAGG G G G G G G G G G G C C G G G G A A A A A A A A G G G G A A A A A A A G A G A G A A G GAA A GAGAGAGGAAAAGCAGGAAGGAACACCGBACAGAGGA GAGAGAGAAAGAGGCCGGCCAAAAGGAAAAGGGGGGGGGGAC A GCAAAACAGAGAGAAGAGGGGCCGGGGGAAGGGGAGGAGGG G GAGACGGGGAGAAAGGGGGAAGGGGAAAAAAGGAAGGAGAA A G G GAGAACCAAAAAAAAAAAGAGGGCCAACCGGGGGGGGGG G G G G G G A A A A A A G GAA $A \operatorname{AGCCAAGGAAGGAAGGAAGGCCAAAA}$ G G G GAA $A \operatorname{GCC} C \subset A A A A A A G G G G A A C C A A C C G G G G A A G G G G G G$ A A G GAA A G G GAAAAGGCCAAAAGGAAAAAAGGGGGGAAGAAA A A G G G GAAAAAAAAGGGGGGAAAAAAAAAATTAAAAAACAAA G G G G A A A A A A G G G G A A C C A A A A A A G G A A G G G G G G G G C C G G C C A A A A C C A A A A $\mathcal{A} G G G G G A A A A G G G G G G A A G G G G A A G G A A A A G G$ G GCCAAGGGGGGAAGGGGAAGGAACCAAGGCCAAGGAAABAA G G G GAAAAAAGGAAAAAAGGGGGGAAAAAAGG
 A A G GAACCCCCCAAGGAGAACAGGAAGGAAAGCCAAAAGGAA
 G G C C A A G G G A G GA G GAAA $A \operatorname{A} G G G A G A G A C G G G G C A A A G A G A A A$ C A G A G G G A G G A A A G C C G G G G C C G G A G G A G A A A A A G G G A A A A A ACGACCGGCCAAAGGAAAAGAGGAGAAGGGGGACGGCCAAAA G G A G G A G G G G A G G G G G G G G G A A G A A G G G C C G A A T A G G A G G A A G G GAGAGGGACCAGGAAAAAGGAACCGGGGGGAAAGAAAGAA A A A A G A A A A G A A A A A G G GAA $A \operatorname{AGGAGGCAAGCCAGGGGAAGAG}$ AAAAAGAACCGAGAGAGAAAAGAAGGAGACGACCAAAABAGBG A A G G G A A C G GCACCCCGGGGAAGGGGTAGGAAAAGGTTAAAG A A A G G G GAA A A A AC GAGGAAAAAACCTTCCAGGGCCGGAGAA GAGGAAGGGAAGGAAAAAGAAAGAAAAGAACAGAACGGAAAA
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G G GAAA A GAGTAAGGGAAGGGGGGCAATGGCAAAAGGAGACA AAA A G GAAAACAGAGAGGGGAAAACAGAAGAAGGGGGGAAAA A A G A G GA G A A A A A A G G G G A A G G G A C C A G G GAA A A A C A G G G G G AAGGAGCCAGCCGAGGGGCCAGGGAAGGAAGGACAGCCAAAA AAACACAGCAAAAAGGGGGAGGAAAAGGAAAGAGGGAACAAG A G A G G G T T A A G G G G G G A A A A G G A A G G G A A A A G A A GAC CAA $\mathcal{A} G$
 AGGGAGAAGGAAAAAAGGAAAAGAGGAAACGGGCAGGGAAAG A G A A G G G G A G G G G G GACCGGGGAGAAAGGAAAAAGAGACAAC GGGAAGGGAGCCGGGGACGAAAGAAGAGAGGGGGTAAGAGAA AAACCAGGAAGGAACCCAGGAGGGAGCCAAGGGGGGGAAAAA GAACAGGGAGAGAAGAGGAAAACCAAGGGGCCCCAAAAAAAA A A GAGGTTAAGAAGAGCCGGGGAACCAAAAAAGGCCAAAAAA G G G G G G G G G G G GAAAAAGGAGAAAAACGGGGAAAAAACCAGGG G G G G G G G GAGGAAAGGGGAAAAGAGGACAACCAACCAAAAAA A A A A A A A A G GCCGGGGGGGGGGAAGGAACAGAACAA GAGGBA
 G G A A A A A G A A C C G G A A G G A A A C G GAGGGCAGAACA G G GA GA G GGCAAGCCAAAGAAGAAGGAAAAAGAGACAAGGAGAACAGAA G G G G A A A A C A A A A C GACCGGGGGGCCCCAAAAGGCCAAAAGG AAGGGAAAAACCGGCCGAAAAAAAAAAAAAGGAACCAAAAGG AA $A \operatorname{GA} A G G A A A A G G A A G A C \subset A A G G G G A A G G G A G A G G A A C C G G$ G G A A C A G A A A C C A A G G A A C CAA A ACCCCGGCCGAGGAGAGAG GAGAAAAAAAAAGGCAAGGGCCGGAAAGGAAAGAGAAAAGAG AAAGAGCCAACCACGGAAGGAGGAAAGGGAGGGAAAGABAAG G G GA $\operatorname{GAAAAAAA} A A A G G A A G A G C A G A A G G A G A A A A G G C C G G G A$ A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCGG GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAAGAG $A C G A G G A G G G A A G A A A A A A C A G A G G A A C A G G G A G G G G G G G G G$ AAAAGAGGGAGGAAGGCCATAGTTAAAGGAAAGAAAAACCGG G GAGAGGAGAAGCAGAAAGGGGGGAACCGAAGGACAGAAAAG GAAGCAAGGAGGGAGGAGACCCGGAGAGAGCCGGAGAGAAAG
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 GAGGAGGGAAAGGGGAGAGAGAAAAGGAGGGGGGGGAAGGAA G G G GCAA $\operatorname{CA} A \operatorname{A} G A G G G A A C A A A G G A G G A A G A A G G G A A A G G G T T$ AAAGCCGAGGATGAGGACCGTAGAGGAAGGAAGAAAGGGGGG
 TTAACACCGGGGCATTGGAAGGCCAGGGAAGGGGGCAAAAGG

 AAAAGGAAAGAGAGGAGAAGGAGAGAAGAAGGCAAAGGGGCC AACCGGCCAAGGGGGGGACAGAAAGGACAGCCAGCAGAAAGG AAGGGGAAAAGGAAAGTTCCAAGGTAAAAACAGGGAAAAGAG

A GAA A A A A A A A G G GAGACAAAAGGAGACAGGATAAAAGAGAG A A A A G G G G A G G G G G A A $\mathcal{A} G G G A A C A A G G G G G A G A G C C G A G G A A$ G G G GAAGAAAGACAGGCCAAGGAAGAGGGGGGGACAGAAGCC AACCAAGGAGGGACCCGGAGGACACACAGAAGAGGAGAAGGA AACCAAGGAGAGGAGGATACGAGAGGACCCCAAGCAGGCCGG A G G GACCCAACCGGAAGGAAGGAAGGAAAAGGAAGGGGGGGG A A GAGGAAGGAACCAGGAAGCAAGAAGAGAGGGGGGGAAAAAA A GAAGGGGAAAAAAGAAGGAACAGAGGGGGGGGAGGAAAACC G GCCAAAGCAAGGGAGAGCCGGGCATAAAGGGCAAGAAAAGA A GAAGGAAAAAAAAGAGGAGAAGGAAGGAAAGACAAACAAAA $A C C A G G A G A G G G C C A G A G G G G A C C G G G G G G G G G G A G A G A G A A$ G GAGGAGGACAGAAAAGGAAGAAGAAAGACGAAAGAAAAACC
 AAACGAAGGAAAGGAAGGGGGGAAGGCCAGAGAAGGACAAAG A A G G G G G G A GCAGAGGGAAGACGGACGGACGGAGGAGGAGAA AAGGAAGGGGCCGGCCGGCCAAAAGAGACCGAGACAGGAACC ACGGAAGGCAGGCAGGGGAAACAGGGAGCAACGGGGAGGGGG A G GAA A A GAGAGGGAACCGGGGGAAAGGAAAAAAGGGCAAAA A A A A A G A A A G G A A A G GAGGGGGCCTTGGGGAAGAGGGGAGGAG A A C C A A A A A G TACAAAGGGGAACACCCCCCAAAA GACCGGGG AAACAAGGGGGAAAAAGGAGAGCCAAAACCGGGGGGGGAACC C C G GAA A A GACCAAAAGGGAGAAAAAGGAACCGAAAGAAGAA
 GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGAAAAG $A G A A C C G G G G C A A G G G G G A G A G A A G G A A G G G G G G A G G A A A G A$ GGCCCCGAGAGAGAAAAAGGAACCGGGGAACCCCAAG
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 AAA A $A \operatorname{AGGGGCGGC} C \subset G G A A G G A A A A G G A A G G G G A A C A A A G G$ AAGGAGAACCAAGGAAGGCCGGGGAAGAGGAACAAGACAAGG GA $A$ A A A $G A G A A G G G G G G A A A G G A A G A G A G G G G G A G A A G A C A A$ $A G C C G G A G G G A G A A A A G A G G G G A G A A A A G A G G A G G G G A G A G G$ A A A A A A G G G G G GA $A \subset C G G C C A A G G C C G G A G C C G G G G A A G G A A$ $G G A A G G G A G G G G A G C C A A G G G G A G A G A A G G A A G G A A A A G G G G$ A A G GCCTTCCCCAAAAGGAAGGGGAAAAAAGGGGATAA GGGG1 A A A A A A A A G G GAGGGAGAAAGGGAGGCAGAGGGGGAAAGAAA A A A A GAAGCAAGGAAGGGCCGGGACCAAGGGAAAAAAACAAA GAACCCGAAAGAGGCCGAAGGGGGGGGGGGAGAGGGGGAAAA
 AAGGGAAAGAGGGGAAAAAAGGGACAAAGAAAAGGGGAGGGG A A G GAA $A \operatorname{GAA} \operatorname{A} A A A G A A G C G C C A A A G G A A A A G G A A A A A G G G G$ AAAGGGAGGAGACAGAGAGGAGAAAGGACAAGGGGAAACCBG G GAACCAGGGATAAGGAAGGAAGAGGGGGGAAAGAGGAAAGG A GAGAAAGCGACAACCGAAGGAACCACAAGAACCCCGAAAGG AAAGGGGGAAGGGGAGAGAAAGCAAAGAAAGGAGGAAGAABG A A G G A A C C G G A G G A A G A GAGAGAGGGCGGAAGCCAAGAAA GA G G GACAGGGAAGGAATAGAGCAGAAGGGGAGGGGGGAAAACC AAAACCGAAAGGGACAAAACGAGGGAGGAGAGGGGGAGGGGG C C A A G G A A G C A A G A A G GA G G G G G A G A A A A G TAA A GAA G GAA A A GAA $A \operatorname{GCC} C A A G G C C C C G G G G A G G G G A G A G G G A A A G A G G A A C C$ GAAAGAAGGGCAAAGGGGGGGGAAGGCAGGGAAAAAAAGGCC CAAGGGAAGAAGAGCAAGGGGGGGGGACAGAAAAAGAAGGAG

AAGGGGCAACATGGCCCCGGGACCAACAGACAGGGGGAAAAA A A G G A A A A G G A A G G A A A $\mathcal{A} G G G G G G G A A A G G G G C C B G C C G G G G$ CAAACCAGAGGGGGGGAAAGGAGGGGACAGAAGAAACCAGAG G GCGGGAGAGGGGGAGTTGGGGGAAGAAGAAAGGGAACAAAA AAAAGGAAGGAAAAAAGAGGACCCCCGGAAGGAACAAGAGAA
 G G A A A A CACAAGGGGAAAGGGAAGAAGATAAAAAAAAGACAA CCGGAGCCGACCGAAAAGACAAGGAGCCGGGGGGGAAAAGAA A A G G G A G G A A A GAC G G A A A A G G G G A A C C C CAGCCCCCCA G CA AGGAAAAAGGTTAAGGGGCCGGAAAAGGAAAAAAAAGGGGAA AAGGAAAAGGAAAAAAAAAAAAAAGGCCAAAGAGAAGAGGAA GAGGGAAGAAGAAAGGGAAAGGGGACAGGGAAAAAGAGAGAA A A G G A A GAAAGGGGGAGAACACAACAGGGGAAGAAAAAGGGG AAGGAAAAGAAACAAGGAAAAAAAAGGAGAAAAAGAGAAAAA
 $C \subset A G A A G G A A C C A C G G A G G A G G A A A A C A A A G G A G C C G A G G A G$
 AAAGCCACGGCAGGGGCCGGGAAGCCGGAAGAGGGGAAAAGG AAGGCCAAGGAAAGGGAAAAAGGAAAAAAAGGAAGGGGAAAG AAACGGGGGGAGACCAGGAGGAAAAGACGAAGACAAAAAAAA G GAACCTAGGGGCCGGGGGGGGGAGGGGAGGAAGCAGAAGGG ACGGGAAGGGGGAAAAGGAAGGAAAAAAAGAGAA GAAAGGAG GAGAAAGAAGGAGGAGGGAGAACAAAGGAAAGGAGAAAGGGG G GAGGGGGAAGGAAGGAAGGAGAAGGAAAAAAGGGGCCAACA
 G GCCAAGGGAACGAAGCCGAGGGGAGCCGAAGACTTCCAGAA G G G GAACAGAGGACAAAGAAAAGGAAGGGAGAAAGAGGGGTT G G G GCAA GAGCAGGCAACGGAAAACCGAGAGGGAAGAAAGAG A GACTTAGGAAGAACCGGAGAAGGAGAGCAAAGGGGAGAACC AAAGCGGGAGAAGACAGAAGGACAACGAAGGAGGGGAAAGAC C A C C A A G G G G G G A G G G G G C A A G G G G G G G A G G A G G A G G G A G A A AAACGGGAACAAAAAGAAGGAAGAAGAAGACCGGAAGAAGAA CAGGAAAAGGACAGAGGAGGAGTAAGAAGAAGGACCGAAAAAA A A G G G G A A G G A G A A A G A A G G G G A A G G C C A A G G G G G GAAAA A C G G G G A A G G A ACCCATACCGGAGAAGGATCACCCCAAGAGAAC GAGGAGAGAAGGAAAAGGAAAAAAGGAAGGGGAAAAAA GAAA A G GAGAAACCGGAACCAAGGAGAAGGAAGGAGAGCAAGGGGG

 G G A A A A G A A A A G G G A G G G G G A A A A A A G G A A G G G G G G G G A G T T G G G A T T G G A G G G A A G G A A A A A A A A GAA A C C CAAA A G G G C CA A A A A G C A C C A G C A A A T T A A A A GAATTAACGGAAAA G G G G A A G G A G GAAAAGAGAACCGGTACCAGAGACAGTACCGGAAAAGGAG G GAA $A$ A $A$ C $A G G G G A A C G A A A G A C C A A G A A A A C G A A A G G A G G G$ G GAACCAGAAAACAAGGGCAGAAAAAAAGGGGGGGGAGCCCG G G A G C G G A G A G G G A C C G A G G G G G G G G A G A A A A G A G G G A A A G G GAAAGGGGGAGGAAGGGAGGAACCAAAGAGCAAAGGATACGG $C \subset A A C C G A A A A G A A A A A G A A A A G G G G G A A A C A A A C C G G G G G G$ G GAAA A A G G G G GCAGAGGAAAAGAGGCAAGGGAACAAATTAA C CAGCCGAGGAAAAAAGGAAGGGAAAAAAAAAGGAAAA G GAGA G GCCGGAGAAAGGGGGGGAAGGAAGGCCGGAGGGCACCAGGG A G GAACAGGGAGAATAAGAGAGGAAAGGAAAGAGAAAGAGAG A G A G A G A G A A A A A A A A A A G A A G G G CA G G C CAAA A A GC C G G A T G GAGGGACGGGGGACCGAACCAGAAGCACACCCCTAGGTATT GAAAAAGGCCGGCCGGGGAAGGAAAAAAGGAAAAGGGGAGAG G G G G GAA $\operatorname{G}$ GAAGGAAAAACAAAAAGGGAGGAAGGCCGGAAAA A GAGGAAACAGGAAAACCAAGGAGAGGAGGGAGGGGAGAGAAA G GAGCCAA G G T T G G G A GAAAAAACAAA GAAGGAAA G GA GACA AACACAAAAGGGAGAAAAAGGAAACCAACCGGTTAGAAGGCA

G G A A A A A A G G GACCAAAAGGGGGGAAAAAAAAAGAAGGAGAA A G G A A G G A A C G GAGAAAGGAGACCACACGACATTAGAAAGAA GAAGCAGAAGCAAGAAAACCAGAGGGAGAGAGAAAGAAAAAG A GCACAGGAAAGAGAGAAAACCCCGGGGGGGGAAGGAACAAA GAAGGGCCAAGAAGAACCGACACCGGGGACAGCCCAGACAAG A GCCAGGGGGAAAGACAAAGCCGGAGGGGGGGGGAAAGAAGG G GAA A G G G A A C G G GCCGGAAAACCAGTAGAACGGACGAAA GA $G G A A G A A A A G G G G G A G A G A C A G A G C A G A G A G A G A A A A A G G A G$ CAAAGAGGCCGGAGGAGGAAAGGGGGAAGGCCGGGGGGAAAA AAGGCCAACAGAGGACAAAGCCAGGACGAGAGAGAGAAAGAA A G G GAAAGGCAGAGAGAAAGAAGAGGCCAAAAGGGGCCBGAA GAGGAAAATTAAAAAACCGGAAAATAGGGAAGCAAAAAGGAA A A A A A A A C CAGACAAAAGGAAGGAAAGGAACCCCGAAGAAAA G GACAAAGGACAACAGAAGGCCGGAAAAAAGGCCAAAAGGCC G GAAAAAAGGCCGGCCAAAAGGCCGGAAGGGGAAGGGGGGAA G G G GAA A GCCAAGGAAGGGAAAAAAAGAACGAAGCAAGACGG $A G C C A G G G G G A A A A G A A G A C A G A G A A A G G A G C G A C C A A C C B G$ A A A A G A G A G G A GAGGCAGAAGAAAAGGAAGGGGAATAAAAAA CCCCGGCCGGAAGGAACCCAGGGGAAAAAGGAAAAAAAAAGA A GAGATGGAAAAGGAAAAGGGGGGAAAAGGCAGGCCBGAAAA G G G G G G G G GACCGGAAACAGCCGGTAGGGAGGCCAGAAGAAA A A G G G G G G A G A GAGGGGGAAAAAGCCAGAGGAGGAAAAAAGA GAGAAGAAAACAAAGAAAGAAGGGAGGAAAACTTAAAACCBG A A G G A A A A A A A A G G G GCCCCGGATGGAACCCCAAGGGGGCAG G G A A G A C G G GC GCC G G A A G GAGGGGGAAAAGGAAAAAA GAAT G G GAGGGAGAAGGGAGAAAAAGGGAAAGGAATGGGAG
AAAGGGAGAGCGGAAGAAAGGGGGGGGAACCGGGGAACAGA A GCCAAAACCGACCAAAGGGCAAGAGAAAAAAAAGGGAAAGG G G GAAGGAAACCAGAGGAGAAGAAAGAAAAAAGGAAGAAAGG G GCCCCGGGGAAAAAGCCGGAGACAAAAAGCCGGAAAATTGG A GCGAAGGCCAAGAAAAACACCAAGGGGAAGGAGAACAAATT AAAAACAGAAAGAAGAGGAACAGAGAGAAGGGGGGGAGAAGG A G GAAA A GAA $A \operatorname{A} A G G \subset A G G A A A A A A G G G G A G G A G A A A G A G G A A$ A GCCAAGGGGAGAACACCGGGGCCAGAAAGAGGGGGGGAGGA GACAGGAAAAGGAAGGCAAGGAAGACAGAGAGTTAAGGAAGAG G G G GC G A A G G G A A G A A A A G GA C A A G GGGAGGGAAGA GAA A A A G GAGGCGGCAAGAGGGAGAGCCAAAAGGGGAAAAGGGGGGAG AA $A G G A C A G G G G C A A A G G G G A A A A A A C C A G A A A A G G G G A A G A$ A A G G A GACAGGGCCAGGGCAGAAGGGGAAGGAAAAGAAGGGG G G A A A GCACAA $\mathcal{A} G G G G A A G G A A G G G G A A G G G G A A A A G G C C C C$ A A G G G GAA A G G G C C A A G GAAAA A GAA A GAA A G T T C C C G G C C G G G G G G A A G G A C G G A A G G G G G A G G G G A A A A G G G G A A A A G G A A A A G GAA A G G G A A A A A A G G A A A A A A G G G GAAAAAAAAATXGGGGAA A A G G A A G G A A G G G G A A A A A GAA $A \operatorname{AGGGGGCCAACCTTAAGGGG}$ G G G G A A A A G G A A G GCCGGAAGGCCGGAACCGGGGAAGAAAAA A A G G G GCCGGGGAAAAAAAAAAGGAATTCCAAGGAACAAAAA
 T TAAAGGAAGAAAGAGGGAGGGGGAAAGAAACAAAAGGAAGA GACCCCAAAAGGAGAAAAAAAAAACCAACACAAGGACAAA GA $A \subset A A G G G A G A A G G G A A G C G A G G G A G G G G A G A G G A G A A G G G G G$ GAAAAAGGAGGAAGAACCAAGGGACCGGAGGGCCAGCCAGGG GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACCAAAG C C A A A G G C A A A A G G A A A A A A C C GAGAGGAAAACCGGGGA G GA AAAAGGGGGGAAGGGGAAAGAAAGGGGGGAGGGGAGGGAGAG GAGGGAGGACGACCGGGGAGGGGGAACCAAGGAAAAAAGGCC G G G GCAGGGGAACAAGGAAAAAGGGGAGAAGAACCCCCAGAA CAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGBAACCAGGA
 $G G C C A A G G A A G G G G G G G A A A G G A G A G G A A G A A G A G G A A A A A A$

A A G G G G A A A A A A A A A A ACCCAAGGGGGAAGAGGGCACAA GAC A A A G A G GA $A \operatorname{GA} A C A G A C A G G A G G G A A G G A G G G A A G A G G A A A A$ ACGAGAGAGAAAGGCCAGGAGAAAGGCCGGGGAAAAAAAAGG AAAACCGGGGGGAAGGAAGGGGCCGAAAGGCCGAAAAAAGGA GAAAGAGGCCAGAGGGAAGGGGGGAGAGACAGGAAGAGAAGA A G G GAA A G G GAAGGAGGGACGAGAAAGAAAAAGGGAAACAAA A A G G A A G G A A G GCGAACCACAGGAGAGGAAGGCCAAAAACAA $G G A A G G A C G G A A G G G G G A A A A G A C G G G A G G C C A G A A G G A A G A$ C C G G G G G G A A G A G A A A G G T T G G A A A A G G A A A A A GACAAA A A A GAAGGGCCCCGGGAAAAGAAAGAAGGCAGGGACCAAAAAAGG A A G G G G G G G G A A A G GAGGAAAAGGAGAGAAAAGGGGGAAAA G A GAA A A A A G GAAAAGGGGAGAAAAAGAACAGGCCGGAGAGAG
 AAAAGAAGGAAAGGGAAGAAGGAAGAAGGAAAAACAAAAA GAG
 GA GAAAAA A GAAAGCAGGAGGGGAAAAAAAGGAGAGGACCAG GAAAAGAGGGAAAGACAAAAGGAAGAGACACAGACAGGAAAA G G A A A A G G A G G G G G G G G G A G G A G G G G G G C A G G G G G G G G A C A A CACCGAGGGAAGCCGAGGAAAAGGAACCAAAACCAAAAAAGA
 AAGGCCGGCCGGGGAAAGAAGGGGGGAAGGGGGAAAAAGAAA G GAAAACCAAGGAGAAGGAACCAAGAGAAGAGAAAAAGAGAC A A A A A A A A A A A A G G TAGGAGGGACCCGGAAGAGGGGGGAAC G $G G A G A C A G G A A A A A A G G G A G G A G G A A C C G G A A G G A G G G G G G A$ $G G G G A A A A G G A A A A G A G G A A G A A A G G A A A G A A G A G G G G A G A C$ G G G G G GCCGGCAAGAAACAAGAGGAACCAAGAAAGGGGAGAA G G G G G GCAGACCCCGGGAAGAGAGGGGAGACCATAAGGCCAA G G G GAGCCGAAGAAAAGAAAGAGGAAGGGGAAAA GGGAAAGG A A A A G G A G G A A G A A A A A G G G A A G G G G G G G G G G G G G A G G G G G G A ATTAGAGAGGAAACCAAAGGGAACCAAAAGAAAAAAAAAAA A A A A A A A A A G A A A A GAA G G GAAACAAAAAAGGCCAGAAGGAA AA A G G G GAGGAAAGAAGAGAGAAGCGAAGGGGAAGAGAAAGA A A A GATAGGAGAGAAGAAAAAAAGAGGAATGACCGACCCCCC GAAAAGAAAGGGGGAAGACAAAGGAGGGAGAAGGCCCCAGAA A CAAAA A $A \operatorname{AGGAA} G G A A A A G G A G G G G G G G G G A G G G G G A A A A G G$ $G G A A G G T A C C G G G A A C G G A A A A C C G A A A A G A C A C G G G G C A A A$ A GAAAGGAAAGAGGGGCCGGCCAAAAAAGGGGGGGGAAAGAA AAACAGAAGGGGAACCGGGGAAAAAGAAGAGAAGAAGAGGAA
 G G G GAA A G G GAGACAAAAAAAGAGCGAAAAGGAACAAAGGGG AAGGAAAAAAGGAAGGAAGGAAAAGGAAAAAACCAAAGAAAA
 G G A A A A A A G G A A G G A A G G G G G G A A G G G G G A A A A A A A G G A A A $G$ A A G G G G G GCCGGGGGGGAGACAAAGGAAGGGGAAGGCAAAGG $A G G A G A G G G G G G G G G G A G A A G A A T G A G G A C G A G G G G G G G G G G$ A A C C A A A A G GAAGCAGGGACGGCCGAAGAGAGGGGGAAAAAA A G G GACAACACCGGAAAGGGAAGGAAAAGAAACCGAAGAGAG GAAAATGGAAGGGAAGAAGGAAGGGGGAGGGGGGCCCAGAAG A GCCAGGGGGAGAAGGGGGGAGAGGGGAAGAGACGAAGAACA $A G C A G G A G G G G A A G G A G G G A A G A G G G G G A G G A C C G G A A G G A A$ A A G G A G G G G G G G G G G G A G A G A T A A G G G A GAC CAAAAACA G G G G AA $A G A G A A G G G A A G C A A A A A G G A A A A A G A A A G A A A G A A C C T T$ GAATGGAAGGAAAAAAAGAAGAGAGAGGGGGGGGAGGGAAGA AAGGAGAGAGGGGACAGAGAAGAAGGGGCCAGAACCGGGGTT AAAGGGCAAACCCAAACCAGGGAGGAGACAGGCAAGGAGACA A GAAA A A A G G G GAAGGCCACAACCGAAAAATTGGAAGAAAGG GGCCAAAAGGAAAACCAAGGGGAATTGACCGGCCGAAAACBG A A A A A G G G G G C A G G A G A A G G G A G G A CA A A G G G A A A A C C G G G C $A G G G A A A A C A G G G G G A A G A G G G A G G A A G G A G A A T G G A G G G A A$

G GAAAGAGAGAGAAGGGGAAAAAGAAAAAAGGGGCCGAACAA GAGGAGCAAGGGAGAAGGGAAAAAAATAGGAACCGGGAGAGC C C GACCAGGGAAAAAAAAAAGGGAGAGCAGAGAGAAAAAGBC G GACGGCAAAACGGGGGGAAAAGGAAAAGAGGAGAAAAGGAG GAGGGAGGGGGAAGAGAGAAAAGGGGGGGACAGGAAAGACBG A A G GAAGGGAGGCCAGAAGAAAAGATAAAAAGAGCCGGAGAG CAGGAGAAGAGAAAAGCCAGGAAAGAGGAAAAGGGGAAAACC CCCAGCAGAAGGGGGGGGAAGGAGAGAGACAAAAAAGAAAGAG A GAGGAGGAAAAGAAAGGCAAGGAAGCCGGGGGGAAGGAGGG AACCCCCCAGGGAAAAGGAAAAAAAAGAAGAGGGGGCAGGAG A A A G G A G G A A A A G A A GAGGGGGAGGAAGAACCAA G GACAGGGG ACGAAAGGCCGGAAGGAAAAGAACAAGGAGGACAGAAAGGGG T TAGAAAACAGAAAACAATAACGAGAGGAGGAAACAGGAGGA
 CAGACAAAACGACCGGAGGACCAAGGAAGGAAGGGGGGAAAA $C \subset A C A A A A A A G G A A A A A T A G G G A G A G A G G A G A G G G A G G A G A A$
 A A A A C CAA A G A A A A C CAAGGGGCCGGGGCCAAGGAAAAGGAA C CAAGGGGAAGGCCAAAAAAAAAAAAAAAAGGGGGGAACAAA A A A A C C A A G G G G G A G G G GACGGGGGGGGAAAAATAGGA GA G G GAAAGGGAAGAGAGAAGAGGAAGCAAAAGGGAAAGGACGGAG G G GAAAGGGGGGAAAAAAAAGGCCTTAAAAGAAAAGGAAAAG GAGAGAGAGAAGAACCCCGAAACCAAAGAGGGGGAGGGAGAG CAA $A \operatorname{A} G A G G A A A A A A A A A A A G G A A C C G G A A G G G G G A G G G G A G$ G GAACCAAGAGGGGCAGAGGCCAAAACCGGCCCCAAAAAAGG AAAGGGAACCGGTTCCGGCCAAGGGGGGAAAAAGAGG
G GAAAAAAAGGAACCGGGGGGAGAAGGGGAAGGGGAGCAGG GAAGGAGAAGGAGGAGGAGAAGAAGAAGAAAAGGAAAGAAGG GAGGGGAAAGGGAAAAGAGAGAAGGGAGGGACAAAAAAAGAG A GCAAAAAAAGGCAGGGGGGAGCCCCGGAAGGGGAAAAAAAA A A G G G G T T G G A A G G A A G G G G A A A A G A G G C C A G A G A G C A A G G A AA $A$ A $\operatorname{A} A A G G G A G G G G G G G G G G G A A G G G G G G G G A A G G G G C C G G$ A ATTGGGAAGGGAAAAAAAGAGAAGGAGAGAGACGAAGACAA G GAGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGGAAAA GAAC $A \operatorname{AAA} A G G G A A A G G G G A G A A G G G G G G A A G G G G G G C C A G A A$ $G G C A A G G A A G A A G G G G A A G G G G C A A G A A A A C C C C G G A A A G A A$ A G GAA $A \operatorname{A} A \mathrm{~A} G A A A A G G A A A A A A A G G G A A G G G G G G A G G G A G G G G$ G GAA $\operatorname{G}$ GAAAAGAAAGGAAGGAAAAAGAAAGAAAA GAACAGAG
 C C G GAA A G GAAAAA A A $A \operatorname{A} G \mathrm{G} G A A A A A G G G G G A A A A A G G A A G A G A$ $A C A C A C G G A G A G T T G G G A G G A G C A A G A A G G A G A G G G G G A G A C$ G G G G G GAAGGAGAGAGCAGGCCAGAAAAACAAAAAGAAGA GA A A A A A G G A G G A A G G C C G G A A GAGGGGGGGGAGAAA GAAAAA $A$ A GCCCCGGGACAGGAAGGGAGAGGACAAGGAGCCBGAAGGGG A GAG $A \operatorname{G} \operatorname{GA} A \mathrm{~A} A A A A G A G A G G A A G A C A G G G G G A C G G A G G A G A G G$ A C G G A G G G A A C C A G A A T T A A GAG G G G G G C C G G T A A GAA G G G G A GAGGAAAACCCAAGGAAGGAAGGAGAGAGGAAGCCGAGGGG ACAC G GAA A A A C G GAAGGGGCCGGGGAAGAGGGGGAGACCAC G G G GAGGGACAACCGGCAGAGGGGAACCAGAGGGAGGGAGGG CAAA $A \operatorname{AGGGAAA} A G A G G G A A G A G A G G A A G A C G A G A G G A C C C G G$ GAGGGAAGCCCCAGGGGGAAAGGGGGAGGAAGCAAGAGAGAA G G G GCAAGCCGGGGAGAGGACCAACCGGCCGAAAAGAACCGG A GAGGGAACCGGGGAGCCAGAGAGAGAAACAGGGCCGGGGGA
 GAGGGGGAAAGAAGAAGAAAGAGAGGGGCAGGACAGGGGGGG G G G A G A C C A G A A A A A C GAGAGGGAACA GAAGAGAG GAGAGG G C CAA $A \operatorname{GA} A A G A A C C G A G A G G A G G G G A G A G A A G G G A G G G A G A G$ G G G GAGAGATAGAGCCAAGAGGGACCAAAAAGGGAAAACCGG G GAA $\operatorname{G} G A G A G A A G A C A A A A A A G G G G G A A G G A A A A A A G G G G G G$

A G G GCCGAGGAGGGGGCCGGCAGGGGGGCAGGAAACACGGAG A G G G G A C C A A C A G G G G G G G G G A G G A GAGGAGG GAA A A G G G T A G GAA A G G G GCCAAAAGAGGGGGAGGAAGGGAAAAAGAAAGGAT
 G G G G G GAAAAAAGGGGAAACAAGGCCAAAAAAAGAAAACAGA GACCAGGGAGGGAAAAGGAAGACAAAAAAGAGAAAGACAAAT C C G G G GCAA $\mathcal{C} G G A A A A A G A G G A A G G G G A A C G A A A A C C G G A G A A$ A G G GCAACAAGGACAAGAGGAAGGGCGGCAGGGAGAGGTTCC A A A G A A A GCAA G GAAACCAGGGAAAACGCCCCAACCAAAGCC AAAAGGCCAAAGGGGGGGGGAAGGAGCCGCAAAAAAGGGGGG C CAAAAAAGAGGTAGAGAGAGGGGCCAAAGAGGGGAGAGGAA A A A A G A A A CAAAGGCGAAAAAAGGAAGAACAGAAAAGGGGAG GAAGCAGACCGAAACCAAAAACAACCAAAAAAGGGGGGAAAG G GAGAGCAACAAAAGGAAAAGAGGAACAAGGGAGGGAGCCCC G GACGGAAAAAGAAAAGAAAAGCCAGGGAAAAAAAAAAAACA GAGGAAAGGACGGGCACCGGGAGGGGAGAGGAGGAAACGAAG ACGAGGGAGGCCAAGGACCGGGAAGAAGGACACCAAAGAAGA GAGAAAAAAGGAAAGGACACCAAAAAGGAGGGGGAAAAAAAG $A G G G G G G G A G A A A G G A G G A A G G G G G G C A G A A A G A G G C A G A C C$ GAAGGAGGAGGGAATTAAAAAAGGAAAACCAGGGCCAACAAA $A C G G A A G G A A G A G G G G A A A G A G C G G G G G A A A A A A C A G A C C G G$ GACAAAAGGGAAAGAGAAGGGGGGGGGGCCAGAAAAGAAGAA G GAGAGGGAGAGGAAGGGGGAAAACCGGGGCCGGAACAAAAA ACGAGGACACAGGGAAACGAGGAGAGGAAGGCGGGGGAAGAG GAGGAAGGAGGGGCAGGGGGAAGGGGGACCAAGGAGCCGGGG G GCAAAAAAAAGAGACGAAGAGAATTAACCAAAAAAGGCAGG AAAAAGCGAAGGAAAACCAAAAAAAAGGAGAGGAAAAACCAC C C GACAAAGGAAAAGGAAGGGGAAAAGGAGAAGAGAACAACC A A G G A C G G GAGACCGGAGACAAGGAAGGCCGGGAGAGAAAGB AAGGCCAGAACCGGGGAAAACCGGGGAGCCAAAAGGACTAAA A A A A A A $\mathcal{A} G G G G G G G G A A G G A G A G G G A A G G A A A A A T X C C A A G G$ G G G GACAAACAGGAGGAAAGGAGGAGAAAAAGGGAAGAGGAC A G GAGAGGGAAAAAAAAAACGGAAGGGGGATTAA GAAAAGAC A G GAGGGGCCCAAGAGCCGATAGGAAAACCAAAAGGCAAGAG GAAAAACCAAAAAAAAGGAAAAAAGGGGACAGAGGGGGACBG A A A A $\mathcal{A} A \operatorname{A} A G G G G G G G G G G G G G A G A A A G G G A G G G G A G A A A A G A$ A GAGGAAGCCAAAAACAAACAACCCCGGCCAAGGAAGAAAGG G G GAAAGGAACCCCGAAAAAGGAGGACAGAAGAAAGGGAGGG A GAAATGGGAACAGGGAGAACCGGGGAAGGGGCCCCGAAAAA
 AAGGGGGGAAGGGGCCAAAAGGAGCAAAGGGGAGAAGGAGAA A A C C A GAGGACAAAAAGGAAGGAAGACACCGGGAAAGGCCGA CAGGCCAACCAGGAGGAGAGGGAGGACCGACACAGAGAATAG A GCAGAGGGGGGAAAAGAGAAAAGCAGAAGGAGAAAAACCAG AAGGCAATAAAGGAGGAGCCAAACACAGGGCCAGAAAGTAAG A A A A A A A G G G G CA $A \operatorname{GGGA} G A A G A G A G G G G G A A A G G A G G A G G A A$ GGGGAAACAAAGAAAAGAAAGGAGGGGGAAAAAGAAAGAGAA AAAAGGAAGGAAAGAAAAAAAAAACCAAGGGGAAAACCAAGG GAAAGGGGAAGGGGCCAAGGGAGGGAAGAAGGAGAACAAGAG A G G G A A A G A G G A C A GAGGGAGGAGAGAACCGGAAAGTXAAAG G G A A A A G G G G G G G GAAAGGGAACCCACCAGAAGGAAAACC G G G G G GAGGAAACCGGGGAAAGGAGGGGACGGAAAAAGAAAAAA GAGAAAAAGGAAGGGGAGAGGGAAGGGGAAGACAGGAAAAAG A GAAGGGGAAGGAAAAGGAGAGGAGAAAAAGGAAGGGACAAA
 TAGGGGGGGGAACCAGAAAGCAGAGGGACAGGGGGGBACCAG G G G G G G G G GAAA $A \operatorname{AGCA} \operatorname{A} G A A A A C G G A C C G A A A A A G A G A C C X C$ $C \subset A G C A A G A G C A A G G G A A G G C A A A C C G G A G C C A G G G C A G G G G$ G GAAGGGGAGGGGGAGAAACAAAAAAGGGGCCGAGGGACGGA

A A GAAA A A A GAACCGAAGCAGGCAGGGGGAAAGAGGGGAAGA G GAGGCAGGAGAGCGAAGGGAGAAAGGACCGGGGAAAAAAAA G G G G CAGGCACCAAGGGGAGGGCCCCAAAACCCCGAGAAAGA AAACGGGACCGGCCCCAGAGGGGAGGAGCCACCAAGGGACAG A GAGAACCAAAAGGAAGAGGAAGGGGGGCAGAGGAGGAGGAG GAGAGATTGGAGCGGAGAAGGACGGACAAGAGCAGAAAGAAG A A G A G GAAAAGGAGGGAACGAGGGGGGAGGAAGAAGAAAAGG AA G G A A A A A A C CAAAAAAGGGGGGCCGGAAGGAGGAGAGGGG G G G G G A A G GAAAAACCGGGGAAAAGGGGGGGGAGGAAAAGAA GGAAGGCCAAGGGGAACAAAGGAGGGAAGGAAAGAGGGAAAA A GAGAGACGGAAAGGAGGAAGAAGGGGGGGCCGGGAGGACGG G A A A A A A A A GCCA G G G A A A A G G T T A G G G G G G G A A G G C C A G G G A A A A A ACCGGGAGACCCCGGAACCGGGGAAAAGGGGAAGGAA GAA A A C G G G A A A G G G G G G G A G G G G C C A A G A G A G A G A A A G G A A A A C A A A G G GAGGAGAAAAGGGGGGGGAAAAAAAGCCGAAACC T T G G G GCA $\mathrm{C} G \mathrm{G}$ A A A G G GCGGACAAAAGGCCAAAACCGGGGCC G G G G G GAAACGGAAAGAAAGAAAAAAAACCAAAGCCAAGGAA G G G GCCGGAGGGAGGGAGGGGACAGGCCAAGGAGAGGAAAGG C CAAGGAAAACGAGGAGGCAAAAAAAAGAGCAAAAAAAGAAA $C \subset G G G G A A A G G A G A C C G G G A G G G A A G C A C G G A G A G A A A G G A A$ AAAGGGGAGGGGAAAACAGAGAGGGACAGAAGCAGAAAGGGA GAGGAAGAAAAAGGAGGGGAGGCCAAAACAAAAAGGGGAAGA C C G GCAAACCAAAAGGAAGGAAAGAGAGAATTGGGGCAAACA A A ACGAGACAGAGAGATACAAAGACCGAAGAGAAAGAAAAAA A A C C A A G G A A A G G GAAAGGGGGCCCCGGCCGGAAAAAAAAAA G GCCAACCAAAAAAGGGGCCCCGAGGCAGGAAACAGA
G GAAGAGAGACCAAAGAAAGGAGGAGGAGGGAAAAGAAAAG G G G G G G G G A G G A A G A G C C G G C C A G G G G G G G G G A A G G A A A A G G AAAACCGAGAAGAGGGCCAAAGAGCCAGAGAGGGAAAGCCGG AAAAAAAAGAGCGGAAGGAGAGACAAAGAGAAGGGACACCCC A A A A A A G G A A A G A G G G G G G A A G A G G G A C G G A G G G C C G G A G C A $C \subset G G G G A C G G G G A A A A A A G G A G A C G G G A G G G G A G A A G G G A G G$ G G G G G GAA $A \operatorname{GA} A A A A A A G A G G G C A G A A C C G G G G A A A G A A C A C C$ A A C C A A G G C A A A A A A A GAGGGGGGAGGGGGAGGAAAGAAACC C CAA A A A G GCGGCCGGAGACGGGAAAAAAACCAAAGGAGGAG GA $\operatorname{G} G A C G G G G G G A A A G G A A A A A G G A A G G G G A A G A G G G G A G A A$ A A G G G A A G GAAATTAAAAAAGAAGAAGAGGAGGGCCGGAAGG AACCGGGGAGAAAAGGGAGGGAAAGGGGCCAAGAACCCGGCC A A A G G G A A A GAGGGAGGGAGAAAACCAGGGAAAAGGAAAGAA A G G GAGACGGAACCGAAGGGGAAAAGGGGGAAAAAGGAAAAA AAAGGCAGGGAAAAAAGGGGGGAAAAAAAGCCAAAAAAGAAA C C C C A C G G A G G A G G A G A GAAACAGAGGGACGAGAGA GAA GAA A GAAAGAGGAAGAAGGCCAGCAGGAGAGGGGGAGGGAGGAGG GAAGGGGGGAGGGGGGAAAAGGAGGGGAGGGAGAAGAACCAA A GATGGGGAAGGAGAAAAGAAAAAAGAGAAAAAAGGAGAAGG G G G G A A A A G G G GAAA A A A A A C C G G CAGAA G GA GA G G G GA GA G A A G G A G G G A A A G G A A G A A T T A G C A GAC G G GAA GAAACA A A G A GAGGAGCCGGGAGAGGGACCAAGGAGGAGGCCGGACGAGAAA G G G GAAAGGGAACCAAAGGGGGAGGGAAGACAAAGGGAAGAA G G G G G G A G G G G G A A G G G A A A A $A$ A $A G G G G G G G A G A G A G A A A G A A$ A G G GAAAAAAGAACGGACAAAAGGCCGGAAAAGGGGAGAAAA G G G G G G A A G G A G G G A G G G G GAA A G G G A A A GCC GAA A A G GAA A A A G G G G G G A A A G A G G G A A A A G G G G A GAGGACAGAGACAAA G G G GAAAGTTAAAGACAGGAGAAAGGGGGGCCGAAGGAGAAAAA A GAGCAAAGGAGGACACCGGAAAAAAGAAGCAAAGCGGAGCA C C G G C C G G G G A A A G G G G G G GACA $\mathcal{A} G A G G A A G G A C C C A A A A C C$ ACAGGGGGGAGGGAGGGAAGAAAAGAAAAGAAGGCCGGACAC G G G A G C A G G GACAC G G G G G G T A GAC GA GAGAAA A A G G GAAA A $G G G G A A G G G G G G G A A A G A G G G G A G G G A G G A A G A C C A A G A G G G$

AAAACCGAGGGAGGCCGGGAGGAGCCGGCAGAACGAGGAAAA C C G GCCAACCAACCAGAAAAAAAGCCGAAAGAGAGGGGCGGG G GAAA A G G A TAAAC A A A G G GAGGGGGGGGGGGA GAAAAA G T T GAAGGGGAAAAGAGGGGGAGAAGAGGCACAAAAGAGAAGACC A A A GAAAAAAAAAGCCGGAAAAAAAAAAGGGAGGGAGAAACA G G G G A A G G G G C C G A G G G G A GA G C A A G A C A G A C A G A A G G G G A A

 C A A A A A A A G G G A G G A G A A G GAA A A A A GGGGAAGAAAAAAA GA AA $A G A A G G G G G G C C G G G G A A A A A G A G G G G G G G A A G A G A A C B A$ A A G G G GAAAACCGGAAGGGGCAGGAGAGGGAGAA GAAAAGTT A A A G A G G G A A G G G A G G A C G A A GCCCCAGAGAAAAA GA G GAA A GACCAGCAAGAGACAAGGGACCGGGGAGGGAAAGCCGGAGAG G G A A A A A G A GACGCGGAGCCTAAGGGGAAGAAGGCAGGAACC ACAAGGAAGGGGACAGGGGGAGGGAAAGGGCAAGAAGGGGGG A A A A G GAA A GAACCGGCCGGGGGGGGAAAAGGAAAAAAAACC C C G GAAAAAAAAGGGGGGAAAAAAGGAAGGAAAAAAGGAGAA A A A A A A G G A A A A A A G G G G G G A A A A $\mathcal{A} G G G G G G G G G G G C C G G G G$ G G G G G G A A G G G GAAAAAGGGGGGCCGGGGAAGGCCGGCAAAAA $G G A A A A G G A A A A G G A A G G G G G G G G A A A A G G G G G G C A G G G G G G$ $C \subset A A G G A A G G A A A A G G C C G G A A G A C C A G G G C C G G A A G G A A G G$ G G GAAAAAAAGGGGAACCAAAAAAAAAACCGAGGCCGGACAA A A G G G GAAAAAAAAAGACGGGGAAGAGAAGGGGGGGAAACAA A A A A G A $G$ G G A A A $\mathcal{A} G A G C C T A A A A A A A G G G G G G G A A A A A A A A$ G G G GAA A GAAAAAAAAGGCAAAAAGAGGAAGGAAAAGAAACC C CAA A G G G G GAGAAACAGAAAGAAGGGGAAAACCAGAGAGGA AAAAGGGGGGGGAAAAAAGGGGAAGGAACCCCAAGGGGGGGG A A A A G G A A G GAA $A \operatorname{GAA} A G T T G G A A A G A A A A G A A A G G G G A A G G$ G GAGGAACGAAGACGAGAAAGAAGACACAGACAAGAAAGAGA $G G A G C A A A G G A A G G A G G G G G A A A A G A A C A G A A A G G A A G A G G A$ A A A G A A A A G A A A A G A A A A A A G GACAAGGGGGGGGAACACA G G A GAAAAAAAAGGGGAAAAGAGAAAATAAACAACCGGCCAAGG A G G G T A C C G G G A A A GAA A G G G G GACGGGAGAAAGGGAACCTT
 $G G G G A C G G A A G A A G A G G G C C G G G A G G G A A G G G A A A A A A G G A A$ A A G GAAGGGGCAAGGAGGAGAAAGAAGGGGAAGAAGAAAAAG G GAA A A A A A A G GAGGGAAGGGAAGGAAAAAAAGGAGCCAACAC GAAGAGCCGAGGAGAAGGGGAGGGAAAAAAAAAAGGAAAAAA G G G A A GA $\operatorname{A} G \mathrm{G}$ GCAAAGGCCGGAAAGGAAAGGGGGAGAAAAAAA C C G G A A A A A A G G G G G A A A G GAA $A \operatorname{G} G A G A G G G A A A A A G G G G G G G$
 GAAGAAGGAAGGGGAAGGGAGGAAAGAAAAAGAGGGGGAGGG GAGGATAGGGGAGAAGAGCAGACCAAAAGGAGAACACCAGAG
 G G G GAA A A G GAAAACCGGGGAACAGAGAGGGGCCGGGAAABA G G G A A GAC GAGAAAGAAAGAAGAGGGCCGAGAAAGAAAACAA $G G A A C A G G A G G G G G G G G G G G A A A A A C G C G G G G A A G G A G A A G A$ A A G G G G GACCGGGAAACGCAAGGAGGGAAAGGCACACAGGGG AAAAGGCAAAGGAAAAGGAGGAGGGGGAGAAAGAGGAGAGAA ACGAGAAAGAGAAACCGAGGGGAAAAAAAAGGACACAAGGGG A A C C G A G G A A G G C C G G A A G G G A G A A GAGGATTGAG GA G G G G A GACAAAGGAAAGAAGGAAAAGAAAAAAAAAGGGGGGGGTTCC C C A G G GCACACCCCGGCCGGGGGGAACCGGAAGAAAAGAGAA G G GA $\operatorname{G}$ GAGGACCACGGAACAGGAAGGAGAAGGGGGAAAAGGG G G G G A A G G A G G A G G A G G G A A A A G G A GA GAA $A \operatorname{AGGGC} C A G G G G G$ G G G GCC C A G G G A A G A A A A A A G G G GAGAGGGCCTTCCGAAA G G A A G G A A GACCCCAAGGGGGAGGGGCCAACCAAGAAGGGGGGG G G TAA A C A G G G GAAAAAAAAAAGAAGGGAAAAA AAAGGAAAA TTGGAAAAGGAAGGAAAAGGCAAAGAGGACGGAAGGGGCCAG

G G GAAAGGCCCAGAAGAAAGAACCGGACGAAAGGCCAACCGG G GAAGGGGCCGAAGGAGGGGGGGACCGGGGGGAAGGGAAAAA

 G G GAT TAA A GAACCGGAAGGCCGGGGCCAGGGGGGGAGAGAG GAGAGGAAGGGAAAGGCCGGAAGGAAGAAAACCAGGAAACAA A A A G A GAGAGAAGGGGGAAGCCGGCAAGAAGGGGGGAAAAAG CAGGAAAAAAAACCAGAGGGAGGGCCAAAAAAAGGAGGAGGG A A G A A A A G G G A A G G G G A A A GA $A$ A A GAGAGAGGGAAA GAA G G A A
 G GAACGGGGAATCCGGAAGGGGGGAAGGAGAGAGGAAAGGAG G GAAAAGGAAACCAGACAGGGGAAAAGAGCCAAAAAAGAGAG GAGGGAAGAGAAGGCCAAGACCAGAAAAGGAAGAAGGGAGAA GAAAGGACGAGAAGAAATAAGGGGAAAACAAGGGGACAGAAA AGGACCGATAGGAGAGAAAAAAGAAACCGAGGAAGGCAAGGA G GAGAAAGGAGGAGAGAAAAAAAAAGAGGAGGGGAAAAAACAA G G G GAGGGAAAAGAAGCCAAGGGGAAAAAAAAAA GAAAAGGCC A GAGAAGGAAAGGAGAGGAAGGAGAGCAAGGGCGAAAGGGGG $G G A A A A G G A A G A G G A G A C G G A C G A G G G G A G A C G A G C A G A G A A$ G G GAA A G G A A G G G GAACAAACAGGAGGAGAGGGGGGGAAA G G
 G G GAA A A A GACCGGGAAAACGGAGGCGGAGAAAAGGGGAAAG GAGGGGGAGAGGACCCCCGAGAGAGAAACCGAAGGGAACCAG A A G G A A G G A A GAGGGAAAGGCCGAAAAGAGCAAAAAA GAGAA
 AACAGGGGAAGGAGCCAGAGGAAGGGGGGGAAGGGGG
 G G G G G A A G G A G G G A A A G G T T A A G A G G G G G G G G A A A A A A G G G G G G G G G A G G A C A A C C A C G A A A G G G G A G GACCGGGGA G GA GA G G G GAACCAGGGAAAGAAGAGAGAGAGGGGGACCGGAACA G G GAA GAAGGAGGGAAGGACCAGACAGAAGGAAAAAAAAAAGGCCGG AA G GAAAAGGAAGGGGAACCAAAAGGACGAAAGGGGGGGGGG AACCGAGAAACAAGAAAGAGGAGATAAGAAAAAGGGGGTAGG A G A A A A G G CAA A A GAGGAGGAGAAAAGGAAAAACAGCAAAAG A G GAAACCAAAAAAAAAAAAGGGAAGGGGGGGAAAAAAGAAA GAAGAAAAGGAAAAAAGAAACCGGAGGGAAAAAACCGAAGAC AC GAA A A G GAAAGGGGAAGGAAAGGAGGGGAGGGGGAAGAAA GAA $A$ A A A A CATTGAGGAGAAGGTTAAGGGGACAGGGGGGCGG
 G GAGGAAGAGGGAAAAGGGAAGAAAAAAGGCAAAGGAACAAA $A C G G A A A C A A G G G G A G A G G G C C A A A A G A A A A A G G G G C C A G G G$
 G G G GAA A G G GAAAAAAAAAAAGGGGGGAGGGGAGAAAAAAAG $C \subset G G C C A A A A G A A G G A G G G A A G A G C A T A G G G G A T G A A A G A A G$ G G G G A G A A A A A A A C A G A A G GAAGAGAGGGGAGGACACAAAA G AAAAAGGAAAGGAACAAGAAGGAAAACCGGGGAACACAAAAA A GAA A C G G GAAAAAAAGAAGGGGGGGAAAATAGGCCAGAGAA A G G G A A G G G GAAGGAAGGCCCCGAATAGGAGGAAAGAGAAAA GAAAAAGGGACCGGGAGAAGAAAAGGCCAAGGAAAAAAACAC A A A A A A G G G G G G G G A A G G G GAA $A \operatorname{AGGGGAGGAAAAAAAGGGAA}$ A GAGAACCGGGGGGGGGGAGAAAAGGGACAAAAGAGCAAAAA AGAAGGGGAAGGAAAAGGAGAAGAAGGGACAGAAAGAGAAAA A A G G A A G G CA $A$ A $A G G G A G G A C A A G G G G C C A G G G G A C C G G A C A A$ A GAGAGGGGGAAAAGGAGAGCGAGCCAAGGAGAAAGAGGGAA $G G A G A A A G A G A G A G G A G G A A A A G G G G A G C A A G G G G G A A G A A A$ A GCCAAGGGGAAGGAAGAAAAAGGAAGGAAGAAGAGAAAA GA GAGAGGAAGAACATCCGGGGAGCAGAGAGAGAGAGAGAAAAAA GACAGGAGCAACCAAAAGGAAAGGAAGGGGAAAGGAGAGGAG CAGAGGAGGGAAGACCAGGAGGCCCAAAGGGGGAAGAAAAGG

A A A A A A A A A A C C G GAGAAGAAAAAAAGGAGGAGACCGGAGGA C C A A A A A A G G A GAAAGGGCCGGGGGAAAGGGACAAGAAGAAA A G G GAGAGAGGAAAGAAAGAGGCCAGGAAGCGAGGAAAAACC G G G G G GAA A A G G G G GAAAA A G G G G G GAGGGAGGGGGAAAAAA T TACA $A$ AAAACAGAAGAGGAAGCAGACAGGGGGGGGGACAAA A GAGAGCGAGAAAGGGGGAAGAGGCCGAAGGAGGAGGAGGGG AAAACCGAGAAAAGGAAGGAAACCGAACGAGGAGBAGGGGCC $G G A G A A G G G G G G G G G G A A A A G A G G A G A A A G C A G A C A G G A A G A$
 AAGAAAGGAGGAAAAAGGACGGGGAAAAGGGGACCACACAAA A A A A A ACAAACCAAAAAAGGAGCCAACCGGAGCAGGAGAGGG GAGGGGCCACAAGGCAAAGGAAGGGAGGGGAGAGAAAGGGGG G G A A A G A A G A G A A C G G A A A A G G A G G G C C G G G G G G G G C C G A A G G A A G G A A G GA G G G G A G G A A A A GA GA G C CAAA A G A G G G G G G A G A A A GAGCACACAAGAAAAGGGGAAAGGAAGAAAAAGAGBACA GAGAGAGAGAGAATGGAGCAACACGAAGGAGAGAAAGAGGAA A A A GAGGGGGAGGGGGCCAGAAAAGGGAGAAACCAAAAAAAG G GCAAGAAAAGGGGGGAGGAAAGGGGAAGAAAATCAAGAACA GAAGGAGGAGGGAAAAAGAGAGGGGGACAAAGACAAAAGAAA GAAGGGCCGGAACCGGAACCAAGAAGAGGGAAATAACCCCGG G GCCGAGAGGAGGAAAAATTCCCCGGAGGAAGGAACTTGGGG A GAA $A \operatorname{GAA} A A A A A A A G G A C C G A A G G A G G G G G A G A G A G A G A C A$ G G GAAAGGGGAAGGGGAAAGACGGGGGAACGAAGAGAAACAC A ACAAAAGGAAGAAAGAAAGAGGACAAGGAAAAAGAACACAA A A G G A A G G A A G G G A GAACAAA A A A $A \operatorname{A} G G C G G C A A G G G A G A G A G$ GAGAGGGAAGGAACGAGAACAGAGGAACAGCACACCAACCBA GGCCAGAAGAGAAGGAGAACGGGGAGGAACGAAAGATAAAAG
 $A A G G G G A G T T G G G G A A G G G A C C G G G G A G G G A A G G A A A G A G C A$ G G G GACGAGAAGCAAGGGAGGAGGGAAAGAAAGACACACAAA G G G G A A A G G G G G A A G G A G A A A A A A A A G GAGGGAA CAAA G GAC GAAGCCAGAGGACCCCGGGAGGGAAAGGGGAAAGAAAAGGGG A A A A A A G G G GCC G A A A A GAAAA $A \operatorname{A} A A G G A G A A G G G G G G A A A G G$
 C CAAAACAGGGACCCCCAAACAGAAGGGGGTAAGBACCGGGG GAAAACGGGGAGAAGGGGAGCAGGGGAAAGAGGGGAAAAAGB G GA $A$ A A A A G G G G G G T T A A A A C C G G A A A G G G G G A A G A G G G A $G A$ AAAGAGGAAGAAAAACGGGAGGGGGGACAAAAGGAGEATTGA
 G GAA A G G GCCAAAGACAGAAAAGGGGAAGGGGAAGGGAAAAA AAGGGGAAAAAATTAAAAAGAGAAGGAGGAGGAAGAAGAAGG AAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGGAAAGGAG AAAAGGAAGGGACAGGAAAAAGAGACAGAAAAGGGGGGAAAA A A GAGGAGCAGAAGGGGGAAAAGGAAAAAAGGAAAGGAAAAA $G G C C A A A A A A G G G G A A A A T T G G G G G A G G G G A A G G A A A A G A G G$
 C C T TA GAAAGAAAAAAATGAGGGGCAGGAGAAA GACAGAGAG AGACCGGGAAAGCAGACCGGAAGAGAAAACGGGGGGACGGGG AAGAAACCAAGGGGCAGGCCGACCAGCCGGAGGAAGGAGAGG G GACGAAAGGGGAAAAAGGAGACAGAAGAGCAAAAGAAAAGBG G G G G A G A A G G G A C C G G A A A A G G A G G GACAGAAA A GAGAAA G G AA $A G A A C A G G A A G G G G A G G G A A G A G G A C C C A G A A A G A A A A C C$ A A A A A A G G GAAAGGGGAAAAAGAGCCAAGGAAAACCCAAAGA AACCAAAAAAAAAAAACCCCAGAGACGGAAGAAAAAAGGGAA $A \subset A A G G G G G G A G G G G G A A A A G G A A A A G G A A A G G G A A A C A G A G$ G G A A G G G G G G A A G G G G G A A A A G A A A A A G G GAAAC A A GA GA G G G G G G G G G G A A A GAA A A A A GGGGAAAAAAAACCAAGGCAAAAG
 $G G C C A A A G G A A A C A A A C C G G A A A C G A A A G G A G A A G G C C A A G A$
 A A G G G A A A A A G GA $A$ A $A$ GAAAACAGAAGGGGGAGAGGGGAAAA G GGAAAACCCCAACCGGAAGGAAGGACGAAATACAGGGGAAAA AACCGGGGAAGAAACGAAGACACCGGACAAAAGGGAAGAGGG AAAAGGAGAAGAACCCGGCCAGGGAAGGAAGGGGAGCCGGGG AGGACCCAAAGGAAGAGACAAAAAGGAACCCCGGAAGAAAAA G G A A C C G G A A A A G G G G G GCCGGAAGGAACCGGAGGGGAAAAA A G G G G G G G G G G G G G CA A A C A A A A GAA A G G G GAA A G G G G G G A A G G G A A GCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGAG ACGGGGAAGGAACCGGAAAAAACCCCGAGGGAGGCCCCAAAA A A A A G GCAAAGAACGGAAAAGGGGGGAAGGGGAAAAACAGAA G GAGGGGGGGGGAAGGGAAACAGGGGGAGGGAGGGGAAAAAG
 A A G G G A A A A A A A A G A CA A A A G G G GA GAA A A A A G G G GA GA G G G G GAGGGGGGGAGGAGGAGGGAGAGGAGGGAAAAAGAGGGGGA G GAGAGAGAGGACAGAAAACAGGAAGGAAGCCAGGACACCBG
 C C G GAAAAAAAAGGGGGGAAAACCAAAAGAGAGAGGAGAAAG G G G GAAAAGACCACACAGCCAAAAGAGGAACAAGGAAGTTGG G G A G G G G G A A G G G A A A A A G A C A G G A A A G T TAA A GAA G G G G G G G G G G G GAA A GAAAGCCAAGAGGGACAGGGGGGGAAACABAAG A GAGGAGGACAGAGAAGGAAGGACGGAGCCAAAAGGAAAGAA A A A A A ACCCCCCCCAAAACACCGGGGAGAAAAAA GAGGAGAA A A G G G GCC G G G G A A C C G G A G A G A A G G G G G G A G G G G G C C G G G G C CAAAAGGAACCCCGGAAAAAAAAAAGGAACCAAGGAAAAGG AAAGGGAAGGGAAGCCGGCAAAGGGGAAAAAACAAGG
GCCGGACGGAAGGGGGGAAAGGGCCAACCAGGGGGAAAAGG G GAAAACCGGAAGACAGGGGGGGACAGAGGGGAAAAAAGGGG G GACGGAAGAGACAGGAGGAAGGGAAGGAGGAAGCCAAGABA AGGGAAAAGAGGCCGGAAAGAAAAAGAAGGGAAAAGCAAAAA G GAGAAGGAGAAAACCAGAGAAGACCAAGGCAAGAGCAAAAC $A C A G G G A A G G A G A A G G G A A G A A A A G A A G G G G G G G A C A G A C A A$ G G G G G A A G A A G GAAGGGGGAAGAGAGAAAAGAGGCCAAAA GA $G G A A G A A A G G A A G G G G A G G G G G G G G G A G G G G A G G G G A G A G A G$ A A G G G G A A G G A G G G G G G G A A G G A A G G A A A A G G G A A GAAA A A A $A G G G G G G A A A G G A A G A A G G A A G A C A G G G G C A G C A G G G G A A G G$ C C G G G G GAAAGAAAGAAAGAAGAGAAAAACCCAGAGAGAGGG G GAA A G GAAACCGGGGGGGGAACCCCGAGGGGAGGGAGACAG A GAA A G G G A GAGGAGGCCAAAAAGAGACGAAGGAGAGAGGAA G GAAA $A \operatorname{A} A G A G G A G G A G A G G A A A A G G A A C C G G G G A A G G G G C A$ $G G C C A A A A A G A G G G G A G G G G A A G A G A C C A G G A C A A A G G A G A A$ G GACGGGGAGAAAAGAGGCAAAAAACAAGGAGGGAAAGGGGG G GAAAAAAAAAAGGGAACAGAAGGCAAGCCAGGACCCAGAAC A G GAGGACAAAAAAGGGGGAAGAGGGAAAAGGGGBAAACCAG GAA A A G G G A A G G G GCCAGGGAAGGACCAAGGACAGAACGGGG C C G A G A G A G G G G G A A A G G A A C C G GAAAA A A A G CA G GAGGGGG C CAG GAGGAACAGAGGAAGAGGAAAGGGGAAAAGAGGGAACC GAAGGAGGAGGCAGGGAAAAGGGGAAGGAGAAAAGGGGAAAA A GAGAGAGAAGAAGGGAGGAGGAAAAAAAAAAGAAGGA G GAAA A A G G G A G G G G G G A A C G G G G G G A T T G G G A A A A GAA A G C C A C G G G G A A G G T T A A A A A A T TAGCAGGGAAAGCGAGAAAAAAAAA G G A A G G G GAA A GCCGGAGGGAAGGGGGGACGAAAAACCGACCAG
 C C GAAA A G CAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA A A G G A A A A GAA $A$ A $A \operatorname{GAGGGAGGGGGGCCAACGATAACAAAGG}$ G G A A A GAAAAGGAAGGGACCGGCAAGACGAGAAAAAGAAAAG A GAA A GAACAGAAAGGGGGGGAAAAGGCGCCAGGAGAAAAAGG A A C A C C A A G GA GA GAGAGATAAAGAGAATTGGACAAAAAG GA AAAAGGGAACGAGGAAAAGGAGACGAAAAGGGGAGGGGGAGG

A A G G A GAGGGCAGGGGCACCGAAAGGGGAACGTTAAGAGGGG AAAAGAAGGAGGAAGGGGGAACAGAGAGAAAGAGCCABAAAA GGCAGGAAGGCCAAAAAAGGAAAAAAGGAAAAGGCCTTGGAA AAAAAAAAGGGGCCGGAAAAAAGGAAGGAACCAAAAGGAAGG AACCGGGGGGAAGGAAGGCCAAGGAAAAGGAAAAAAGGAGAA G GCCAAGGGGAAAAGGGGGGAAAAGGAACCGGAGGGCAAGAA $A G G G A G C A G G A A G G A A G G A A G A A G G G G A G A G G G G G G A A A A G G$ AGAGGAAAAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGG A A G G A A A A C C C C A A $\mathcal{A} G G G G G G G G G A A A A A A G G A A G G G G A A A A$ G G G GAACCGGAAGGGGGGGGAAGGGGAAAAAAGGGGAAAAGA G G G GCCGGAAAAGGAAGGCCAAGGGAAAAGAAGGGAGAACAA G G A A G G A A G G A CAA A GAACCAACCGGGGAAAAGGAAAACAAA C CAACCGGGGAAAAAAAAAAAAGGGGAAAAAAGGGGAAAAGAG A A G G A A A A A A G GAAAAGGCCGGAAAAGGGGCCAAGGAA GAAA
 G GAA $A \operatorname{GA} A G G A A C C G G A A A A G G C C G G A A C C G G G G A A A A G G G G$ G G G G G G G G A A G G A A G G G G A A G G A A A A A A A G G G G G G A A G G G G G G AAGGGGCCAACCGGAAAAAAAAGGTTGGAAAAAAGGGAAAAA $C \subset C C A A A A G G C C A A G G A A G G A A A A G G A A G G C C A A C C A A A A G G$ A A G G A A $\mathcal{A} G G G A A A A A G C C G G G G G G A A A A G G G A G G A A A A G A A A$ AAGGAAGGGGAGCAGAAAAGAGGAGGCCAGACGGAGGGGGGG A A G G G G G G A G G A T T A C A A G G G G G G G G G G A A G G G G G G G G A A A A A A G G G G G G G G G G A A A A A A A GAGGAAGGGAAAAAGGGAACCAC A GAA $A \operatorname{GAAAAACCGAGGAAGGAAAAGAAACGGGCCGGGGAAAG}$ C C CAC CAA G GAAAAGGAAAAACAGGGGGAGCCAAAGAGAAAA A A A A A A G GCC G G G G G G GAGGACAACCAGGGCCAAAAAGAGAA
 G A C A A G G G G A A C G G G G G G G A G G G G A G G G C A A G A A G G A G A A G G C C A A A GAGAAGGAAGGAAAGCCGGAAGGGAGAGGGAGAAGAA AA G GAAGGAAAAAAAACAAGGAACAGGAAAGAAGGGGGGGGAA C C G G A A G G A A G G A A A A T T G G G G A A A G G G G G A A G G G A A G A G A G GACCAAGAGGGGCCGGAGGGGAAAGGGGCCAGAGCCAGGACC
 A GAAAAGAGGGACAATACAGGAAAGGCCGGCCAAAAAAAAGG A G G G A A G G A G A G G G G G C C G G G G G G T A G G A A A A G G A A C C A A G A G G G G G A A A G A G G A A G G G A G A A G A G G G A GAAAGGGAAAC A A G G AACCAAACAGAGAACCGGGGGGGGAACCAAAAGGAGAGGGGG G G G GCCGAGGGGAAAGAAGGACAACAGGAAGGAAGAGAAAGAA G A A A A GCCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGGAA
 A A G G G G G G A A G G G GAAGGCCGGTTAAGGGGAAAACCGAAAAA G G G G G G A A G G A A A A G G A A G G A A G G A A A A A A C C G A A A G G A G A A AGGGACGGCCCAGAGAAAAGCCACGAAGAGAAAAGGAAGGGG G GCCAAGGCCGGGGAAAGGGAAAAGGAAAAAAGGAAAACCBG G G G G G G G G A A A A A A G G A A A A C C A GAGAGGGAGGGAC GAAAC C

 AAGGGGCCAGCAAAGAACGAGGAACCCCAAAGACGGAGAAGG AAAGGGGGGAAAACGGGGAAAAGAAGGAGAAAAGAAGGAGAA G G G G G G A A G G A A A A G G A G A A A A A G G GAACACAAACAGGACAA C CAA $A \operatorname{GAAAAAAGGAGGGGAGAAGAGAAAAAGGCCCCGGAAAA}$ GAGGGGCCAAGGAAGGGGCCAGCAGGCAAAAGAAGAAAAA G G $A \operatorname{A} A$ $G G A A A A G G C C G A A A A G A G G C T T G G A A A A A A A A G A G G G G G G G A$ A G GAGAGGGGGGTTAAGGGGGGGGAAACGAAGAGGAGAGAAG A A G G G A G G G G G G G A G A A A G G C C T T G G A A GAAA $A$ A A G G G A A G G
 AACAGGGGAAAAAAGGAAAAAAACGAAAAAAAAAAAGAAAGG A A G A A C C A A A GACACCCAA GAAGAAACCGAGGGGAAGGGAAA $C \subset G G C C A G C C A A G G G G C A A A G A A A G G G G G G G G G G G A A G A A A C$

GAAACAAGAGAAAAAGAGACGGACGGGGGGGAGAAAGAAAAG G G G GAAA $A$ AA A G GCCAA G GAAAAAAAAGAGGAAGGGACAAGAG CACCGGGGGGGAGGGGAAAAAAGAAAAAAGAGGGGAAAAAAA AA G G GAGGAAAGAAGGAAAAAAAAGAGGCAAGCACCCCGGGA G GAAAAGGAAAAAGAAAGCAGAAGAGAAAGCAGGAGGAAGAA A A GA $\operatorname{A} A A A A A G G A A A A G A G A A A G G G G G G A G A G G A G G G A A A A G$ A G G GCCAAAGCAACGGAAGAGGCCAAAACCAAAAGGGGGGGG AACCAACCGGGGGGGGAAAACCGAAAAAAACCGGAAGGGGCC GA $A$ A A $\operatorname{A} A A G A G G G G A A G G T T G G G G G G A G G A A G G G A G C C A G B A$ AAGGGGACGGAAGGAGAAGGGGAAAGGGCCGGGGACAAGGGG G G G GAAAAGGGCAAAGAGGGAAAGAAGGAAGGGGAAAGAGGA GAAAAAGGAGGGGGAGGGGCAAAACCAGGGCAGGGGGGGGCC A A C C G G G A A A C C G G T T G G A A A A G G G G CAA G G G A GAAC CAC G G A A G G A A A A A A A A C C G G G A A A A G G G G G A G G G A G C G A G C C G G A A A G GAA A AACAGGCCGAGGGAGAGGCCGAAAAAAAGGAGGCAA AACCGGAAAGAGGAGACACCGAGGAAGGAAGGGGAAAAAAAA
 A A GAA A G G A GCAAAAGGACCAAGGGGGGGGAAAAAAGGGGGG A A G G G A A A G G A A G G G G A A G G G G G G A A GAGAGAG GAAGGAAAC GAAGGAAAGGAAAGGAAGGAAGACGAACCAAACCAAGGGGGG C CAAAAGGAGAGAGAAGAGAAGACGGAAAGGGAGGGAAAAAA C CAAAAGGCCGGCAGAAGAAAACCAAAAGGCCAAGGGGGGAG A A A G A A A T G G A GAACAAACCAGAAGGAAACGGAGGGACAAGA C C A A A A A G A G A A A A A A GGGGAGGACCGGAGCCAAAAAAAAGG G G A A A G G G A G GAGAAAAAAAAACCGAAGAACCGACACAAGAC $G G T A C A G G G A A G G G G A A G G A G G A A G A G G G G A A G A A G A$
AAAGAAGAAGAGAAGGAGGAGAACGGGAAGGGGAGAAAGAG
 C C G G G G G G A A A CAG G G GACCGGGGGGGAGGGGAGGAAAAAAG GACAAGACGAAGGGGGGAGGAAAGGAAAGACCAGACAAGGGG AACCGGAGGAAAGAGAGAAGGACCGGAAAGGAGGAAGAAAAA AAA A GAAGAAGGGAAAGGAAGGGGGGAAAAAAAAGGGGGGGA CAGGGGGGAAACGACAAGTAAAAGAAGGAGAGAGCCGGAAGA G G G G G G G G G G A A C C G A G A A A G G G G C A A A A G TA A A A C A A A G A A GAAAAGGGAGGAGACCAAAGAAAAAATAAAAGAAGGCCAGAC A A A G G G G G G A G A A G A A C A A A A A A A CAA A GAGGAGAAAAAAAA G GCCCGAAAGGAGAGGGGGGGGGGAAGGAACCGAGGAAAAGA A G GAAAAGGGAAGGCAAAACAGACGGCCAACCAAGGGAGAGAA A GCCAAGGAAAAAGGAAAGGGGGAAGCCGATAAAAGGAAAAG G GACAAAAGAAAGAGGACAAACGGGGAGGACAGAGAGGGGGA G G G G G GAAAAAAAGGGAAAAGGGGAAAAAGGGGAGAAAAGAG GACACCAATTGACCCGATCCGGAGAGACAAAAAAGAAAGGAG CAAGACAAGAGGAAGAGGAGGGAAGCGGAAGGTTCCGGAAGA A GACAA $A \operatorname{AAAACCGGGGGGGAGGGGCCAAAAGGGGCCGAAAAA}$ G G G G A A G G A A G GAA $A \operatorname{G} G \mathrm{G}$ GAACCGGGAAGAAAGACGAAAAAAG A GACCCAAGGGAGGAGAAAAGCAAAGCATAAGGGAGAAGAGG
 A A G GAGCCGGAGAGAAAAAGAGCAAAGGGGAAGGGGAAAAAG A GAA A G G G G GAGCAGGCCGGGGAAACACGGAAGGAAAAAACA A G G GACGGAAGGGGAACCAACCAGGGAAGAGAACAACAAABG A G G G A A G G G GCC G G G G C A T T A G A G G A G G A A A C G A G A A G A G A A AA G GAACC GACAGAAGCCGGGGAGAAGGAAGAGACAGGAGAC GACCAAAAGAAAAGCAGAAAGAAGAAGGAGAAGGAAGGBGAG AAGGAGAAAGAAAAAAGGGGGGAAGGGGGAGAAAAGGGAAGA ACAGAGAAAAAGGGGAACGGAAGAAAGAAAGACCAAAAAAGG G GAGGAAC GACAAGAGGAGAGAAGCAGAGAGATTAGACAGGG C C G A G G G A A A G A G G A A A T G A G GCCGGAGGACAAGGAAAA G G A GAAGGACCGAAAGGAAAGCCACGAGAGAGGAAGGGGGGAAGA A G GAAAGAAAGAGGCAGGACGAGACAAAAGGGCAAAGAAGAG

G G GAGAGGCCGGGGGGGGCAGAGAAAAAAACCAGAAAGGGAG GAAGAGAGGAAGAAAAGAGGGGAAAAAAAAAGAGGGAGAAAA A GCCATAGAGGGAAACGAGGAGAAAGGAGAAAGGGGCCAGAA A GAGAAAAGGGGAAAAGGAGGGAAAAGGCAGGCCAAGGACAC CAGGAAAAAGCAAGCCAAGGAAGGCCGGAAAAGGAGAAGGCC G G G G G G G G A A A G A A G G A A G GAACCAAAAGGCCGGCGGGGAAA
 AAGAGGGAGAAGGAGGCCAAAAAAGGAAGGAAAAGAAGAGAG GAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAAAAACC G G G G G GAAGGAAGGAAAGAAGGAAAGAGGGGGAAACAGAAA G GAAGGAAAGGAAAAGGAAACAGACAGAGGGGGACGGGGCCAG G G GAGACCAGAGAAAAAGAAGAGGAAGAAGAGGAGACCGGGG $G G A A A A G G G A C C G G A G G G C A A G A G G G C C A G A A A C G A A G A A G A$ G A GAACC C G G A A G GAGAC C C G GAACCAAC CAA G G G G G G G G A A A GAACCGAGAAAGGAAGGGGGGCCGGCCGGGGGGACGGGAGG A GAGGGAGGGAAGGGGCCTTAGGAGGAAAAAAAAGGGAAAAG C GAG A G G G C C C C A A A A G GAA $A \operatorname{AGGGGGCCGGCCGGGGGAAAAA}$
 A A G G G G A A G GAA A G G G C CAA A G T T G G G G G G GAAAAAAAGGGAAA A A A A G GCCAA $C$ C $\mathcal{A} G G A A G G G G G G G G G G A A A A G A C C G A A A A G A G$ G GAAGGCCACGGAGAAAGAAAAAGCGAAGAAGGAAGAGAGAG G GAA $A \operatorname{G} G A A G G A A A A A G G C C A C A A C C A A G G G G G G A G A G A A A G$ G GAAAAGGGGCCGGGGAAGGCCCCGGAAAACAACAACAGGAA AAGGCAAGAGGGCAGAAGAGGAACAGAAAGGGGAAGGGGGAG AGGAACGGAAAAAAAAGGGGAAAAAGGAAAGGCAAAAGAGAG GAAGGGGACCAAGGCCGGGGAAAACAAAAGAAGGGGAAGAAA G G GAA $A \operatorname{G} G A A A G G G C C A A G A G G A A G G A A A A A A A A G G A A G G G G$
 G G G G G G A A G GCC G G G G A A G G G G A A G G G GAAGGGGGGAACAAA $G G A A A A A A G G A A A A A A A A G G G G C C G G A A G G G G A A A A G G A G A A$ A A G G A A A A G G A A A A C C G G T T G G A A G GAAAAGGGGAA G GAA G G G GAAGGGGGGAAGGAAAAAAAAAAAAAAGGAAGGGGAAGAAA AAGGGGGGAAGGAAGGAAAACCCCAAAAGGAAGGAAGAAAGA A A G G A A G G G G A A A A A A A A A A G G G G G GAA A G G G C C A A G G G G A A G G G G A A C C G G G G G G G G G G A A G G A A G G A A A A A A G G A A A A G G C C G G G G G GAAAACCAAAAGGGGAAAAGGAAGGAAAAAAGGCCGG AACCGGGGGGAAGGAAAACCAAGGGGGGCCCCAAAAAAAAAA
 AAAACCAAAAGGAAGGAAGGAAGGCCGGCCAAGGGGAAAAAA A A G G A A G G A A A A A A A A A A G G C C G G G GAA $\mathcal{A} G G G G G G G A A A A C A$ $G G A A G G G G A A G G G G G G A A A A G G A A A A C C A A G G G G G A C A G G G A$ A A A A A A G A A A A A GACAAAGAGGGAGGCAGGGAGGGGAAAAAA A GAAAGAAGGGAAAAGAACCAAAAGAAAAACCGGAAGGAAAG A GCCAAAAAGGGCCAAGGGACAGGAAAGGAGGAAGGAAAAGA G GAGGGCAAGAGGAGAGGAAGGGAAGAAAAGAAACCAAGGAG A GAA A A G G GAACAGGCGGAAGGAGAGAAAAGGGGCAAAAAAA A G G G G A A A A A G GAAAA A G G GAAAGTAGAAGAGAGAACCACAA G GAAAAAGGGCAGGACAGAAGAGAGAAAGGCAAGAGGAAAAG A G GAGAAAAAA $A \operatorname{A} A \mathrm{~A} A A A G A G A A A A C C G G A A G G A G A G G A G G G G$ G G GAGAAGCGGGAACAAAGGGGGGAAAAAAGAGGGGAACCGG G G G G A G A A G G G GCGGAGAAGAAAGGGAGAGGCAGACCAAAGG CAGAGGAAAGAAAGGAAAGAAGGAAAACAGACCAGGAGGGGG ATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGG C C G GAGGGAAAAAAAAGGAAACAAGGAGGAAAGGAGCCAGCC A ATAAGAAAGAACAAGAAAACGGAGAAGAGAGAAAACCGGAG AACCCCAGCAGGTAAACCAACCGAGGAGAGAAAGCCAAAAAA $G G A A C G A A G G C C A A G G G G G G G G A G A G A A G G G A A A G A A A A G G G$ A A G GCA $\mathcal{A} G A G A A A G G G G G A C G A A G G G C A G G G A A C G B C A A G G G$ GAAAGGGGGAAAGGCAACAGAAAGCCGAGACCAAAGGGGGGG

G G G G G G A A A A CCGGCCAAGGGGGGAAAAAAAAGGAAGAAAAA G G G GCCCCAAGAGAAGACTTGGCACACCCCAAAAAAAAAA GA GAAAAAGAAAAAGAGGGAAAGGAAAAGGGGAAGAGAAAAAAA AAAAAAGGGGAAACGGCCAAAAAACGCCCCGGGGAGAAAAAG GAGAGGGGGGGAAGATGAGGGGCCGGCCGGCCCCACGACAAG G GAAAAGGGGGAAGAGGAATTACACCAAAAGCCCCAAAGAA G GCCGGACAGAGGAAGAAACAGCAGGGACCGGGAAAGGAAAC $G G T T A A G G G G A A G G A A A A G G G G A A A A G G A A G G G G A A G G A A A A$ G G A A G G A A G G A A A G G G G G G G G G G G G G A G G A G G G A A G C C A G A A AAGGAAAACCAGGAGGGGCCGGGGATAGCCGGAGCCAGAAGA ACAACCAAAAGAAAGGAGGAAAAGAGAGAAAAAAAAGGAGAA
 A A CA $A G G G G A A A G A A G A C G G G G G A G C A G A A G G G G A A A A A G G G$ A GAATAAAAAGGAAAAACAAGGAGAGAAGGAAAAGAAAAAAA G GATAGGAAGGACCCGGGCCAAAAAGGGGGGGAGGGAAGGAA
 $A G G G G A G G G G A A G G A A G G G A A A G G G A G A A G A C A A G G C C G G G G$ G G A A G GCAGGGGGGAGAACCGAGGAGGACCAAACAACAGAAA AGAAAAGGTTGACAGGAAAGAAAAGGAAGGCGGAGGAATTAA A A G G A A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G A G A A$ AAAACCAAGGGGAAAACCAAGGAGAGAGAACAGAAAGGGGAC AACCAAAACAAGACAAGGCACCGGAGAAAAGGAACCGGAAAAA CAAAGGGCAAGGAAAAGGGGGGGGAAAAAAAAAAAAAAAACC A A G G A A G G A A C C G G G G A G G G A A C C A G A A A A G GAAAAC C G GAA A G G G A C G G G G G G G G C G C A G A G G A A A GA GAA A G C A GA G GAAA A A A G G G GCCAAGGGAAGAGCCACACCAAAAAAAAAGGG
GCAGAAGGGCCAAGGGGACAGGAGGAACCAACCCCAAGAAA AAGGAAAAAAGGAAAACCAGGGGGAACCCAGAAGAAGAGAGG G G G A T T GAAAAGGAGGAAAAAGGAAGGGGGAAAAGACAAAAA G G G G G GAGAGGGGGGGAAAGAGAAAAAAAAGGAGAAAAGGAA CAAGGGAAAAGGAGAAAATTGGAGACAGGAGGCCAACCACAG AACCAAAAAAAAAACCGAGAAGGAAGGGGAGGCAAGAAAAGA
 AA $A$ A A G G A A A G GAGGCAAAAGGAGAGGAGAGGGAAGGAAGAA A A G G A A A G A CAA $A \operatorname{AGGGGGGAAAAACCAAAAAAAGGGACACAG}$ G GAGGAGAACAGCGAGAGTAGAAAAAAACCAAGGGGGGCCGG G GAAAAGGGGAACCCCGGGGAAGGAAAGGAAGGGGGGGGGCA CAAAAAAACCCCAGGGAGGGGGAAGGGGGGGAAAAAAGGGGG CAAGGGAAGAAAACAAGAAGAGAAGGAGAAAGAGAAGGAA GA C C A G G G G A C C T T G G A A C A A A GAGGGCAAGGAGGAA GA GAA G G G G G GAACCAGAGAAGGTTGAAAGGAGAAAACCCCAAAAGGGG G G A G G G G A A C A G G G A G G G C A GAG $\mathcal{A} G G G G G A A G G A A G G A G A A A G$ G G G G A A A A C C A A G G G G G G G GAA $A \operatorname{GGGGGGGGAAAAGGAACAAA}$ G GCCTTGGGGGGAGGGAAGGAAGAAGAGAAGGAAAGAACAAA G G A C A A A A GAGGGAAAGGAAAGGGGGAAGGAGAAAGGGAAGG A A G G A A A A G G G G A G A A A GCAGGCCGGAAGGGGGGAAAAAA G G G G A A G GCC G G G GAAGGAAAAAAGAAAGACAAGGAAGGGAAAA T TAA A GAGAACCAAGGGGGGGGGGAAAAAGAAGGAAGCAAAA A GAAAAGGGGCCGAAGAAAAGACCCACCAAAAAGAAAGAAAT $A G C A A T G G G G A A C C A G A G G G G A G A G G A A A G G A G A A G C A A A G G$ G G G G A A A A G G A A G GAA $A \operatorname{GAAAGGAGGGGGAAGGGAAAAACAAA}$ G GAAGGAAGGGGAAAGAGGGAAGGGAAAAGAAAGGAGGAAAA
 AA $A G G G A A G G G G G G C C A A A G A G G G A G G A A G A A A A A G C C G G G G$
 A GAACCCCCAAGAGAACCAAAAAACCCAGAGGGGGGAAGGGG G G G G A A G G G G A A G G G G C C G A A GAA A A A A G GAA A GA G GA GAT T GAAAGGAAAAAAGAGAAAGGAAGGGGAAAGAAGAATAAAAAG G G G GAAAAGGGAACCAAGAAGGAAGAAACCCCAAACGGAABA

A GAAGGGAAAGGAGGGCAAGCCAACCGAAAAAAAAAAAAAGG G GAGAGACGAAGCACCGGAAGGGAAAGGACCAAGACGGAGGG GAAACCAAAACCGGAGGGGGGGAAGGAAAGAGCGAAAACA GA A A A A A G G A A A C A A A GAGGGACCAGGGAGTTGGGAAAGACGCC CAAACCGGAAGGAACCAAGAAGAAAAAGAAAGGAGGAA GAAA G G G G G G G A G G A C A A G G A A A A G G A A A A A G G G G G A A A A G A G A A A
 G G G G G G A A C C G A C A G G A A G A A G GATTTTXAAGGGGAAAAAAG G G GCCGGGGAAGGGGGGAAGGGGAAGGAACCAAGGCCCCGGGG C C A A A A G G A A A A A A G GAAGGAAAAAAGGAAGGAAAA GAAAC C A A G GAA A GCCAAGGAAGGCCCCAAGGGAGGGGGAAGAAAAAA G G A A G A G A GAACGAGGGAGGAGAGGAGGCCACAGGGAACCBG T TAAAAAAGGAAGGGGCAACAGAAAAGGCCAGAGCAAAGGAG G GAAAGGAAAGGCCCCAGGGGAGCGAACCAACACGGAACAAA G G G G GA $\operatorname{G} G A A G A A A A A A G G G G A T T A A A A G G G G G G A G A A A G G G$ A A A A A A A A G GAAAA AGGGAAGAAGAAGGAGGGAAGGAA GAAA A A A G G G G G A A G GAA A A GAACAGACGAGAAGGGAGGAAATXAA C C G G A A GACCAGGGGGGGAAGGAGAAGGCCAAAGAAGGAAAA CAGAAAGATTGGAAGGGAAGACGGAAAGAAAGAGGAACAGAA G G A A G G G G A C G G G A A G G GA G G G C C A A A A G G GA G A A G G G A A G G G GAA A G G GCCGGAAGGAAAAAGGGGGAAGGAACAAAGGAACA C C G G G GAAAAGGGAGAAGCAAGGAACGAGAAAAAAAGACAAA G GAGAAAAAAACAAACGGCAAAGGAAGGAGGAAGAAGAAGAG G G G G G A A C A G G A G G G A A A G G A C A G G G A A A C G GA G G G G G A A G G G G A G A G G A A G A G A GA G GA G G G A GAGGAGA GAAA A G G C G C C C C C C CA $A$ A $G$ GAAAA $A A A A A A G G G A A A G G A A G G A G A A A G G G G G G G G$ G GAGAAAGGGAACCAGGAAAGGGGGGGGCCAGAGGGAGAGAC G GCCAGAAGGGGCCGATTAAGAACAAAGGAAAGAAGGGACAG A G A G A G G G G GCC C A G G A A A GAGGGGAGGGAGGAAAAAAAGCC AAAAAGACAGGAAGGGAAAAAAGGCCGGAAGAGAAAGGGGGA G GAGGCGGAACCAAGGGGGGCCAACCGAGGAGGAAGGGAGAG G G G G G GCC G G A A G G GAGGAGAGAAAGGGACGGAAA GGGAGAG A GCCAGAAGGAAAAAAGGATAGAGGAACAAGGAGAGGGAACC G GAGGGCCACAAAAGAAAAAAGGGAAAAAGAAAAGGGGAACC TACAAACCACAGAGGACGGAAAAACCGGAAGAAGGGAGAACA A A A A A A G G A A A C G GAA A G G G G G G A A A GGGAAACCCCGAAA G G GGCCAACCAAGGACGAAAGGGAAAGAAGGAAAACAGACAA GA $C \subset G G G G G G A G C A A A C C G A A C A G G G A A A G A A G G G A G G G G G G G G$ AACCGACAGAAGAAGAGGGAAAAAGGAAGGAAGAGGGGCCGG CACCAAAGAGGGAGGGAAAGGAGGAAAGGACCAACCAGAAGG $G G A A G G G G G G G G G A A C G G T T G G A A A A G G A G G G G A A A G G A A G A$ G GAAAGGGGGAGGACCAAGGAAGGAAAAGGAAAAAGAGACAG GACCAAAGAAGGAGAGAGAAAGGAGGAGGAAAGGGGAAAAAA $A G C C A G G A C A G G A A A A A G A A G G C C C C G G G G G G A G A G A A A A A G$ A GAA A GAAACGAGAAGAAAGGAAGCCAGGGGGAAGACCAGAA CA $A \operatorname{GGGG} \mathrm{G} C \mathrm{C}$ CAGAGAAAAAAAGGGGGGAGGAGGGGGGAAAGAG G GAGGAAAGGAGGGGGGAAAAGAGAGAAAAGAGGCCBAAAGAG AAGGCAAGAGGGAAGGAAAGAAGGAAAGAGAAGGGGACGAAA AACACAGGAAGAAAGGAAAAAAGAGGAGGGCAGAGAGGCCGG TATTCCGGGACCGGGGAAAAGGAAGGAAATAGGGGAAAGGGG A A G G G G G G A A G G G G G G G GCCGGAAAAAAGACCGAAAAA G GAA A GAA A G G G G G A A A A A A A G G G G GAAAA A G GAC GAG GAAG GAAA A A A GA $\operatorname{A} G \mathrm{G}$ GAAAAACCGGGAGGGAAAAGAGAGAGGGAAAAAAAG A GCCGGGGAAGAGAAGGGGGAAGGGGGGAGACAAAAAGAGAA G G A G A A A G G G A GAA $A \operatorname{G} \operatorname{A} A A G G A A G G G A A G G A G G C A G G A A A G B A$ A A G G A A G G G G G G G A C C C C G G G G A A A A G G A A G GC C A C A G A G C A G G G A G A A G GAGGC CAAAAAAGAAAGAAAGGAGAGAAA GAAGGG $A C A C G A G G A C G G A A G G G G G G G G G G A A C C G G C A G A G A A G C C A G$ GAGGGAGGGGCACCAGAAAAGAAGAAAAGAGGAACCAAGGCC

C C G GAAACAAGAAAAGCAGGGAGAGAGGAAAGGGAAGGAGAA G GAACAGGAAGGCCGGAAAAGGGGGAAGGGAAGAAGGGAAAC $C \subset G G A G A G G G G A C C C C G A G A G G A G A G G A G G A A G A C C G G C C G G$ C C G GATGAAAGAAAACGGGAAAGACAGGAAGGGGCCATA GAG G GAGGAGGGGAGGGAAAGCCGAGGCCAGGAGAAATTAAAAAA G GAA $A \operatorname{GAA} A G A G G A A A A A G A A A A G G A G A G A G A A G A A C C C C C C$ AAAACCGAAAGAGGAAGAGGAAGAAAAAGGGACCAGGBAAAA A GAGAAAAAAGAAAAAAAGGAGACCCAAGGGGAGGGAAAAGA G GAGAAGGGGAACCGGAAAACAAGGAAGCCAAAGAAGGCAGA $A C G A A A A G G G G G G A G G A G A A G A G G A A A A A A A G A A G G A A G A G A$ AAGGGAAAGGAACCAAAAGGAAAACCAAAAAAGGAAGGCCGG G GAA $A \operatorname{GAAAAAGGAAAAAAAAAAAAGGGGGGGGCCGGAAAAGG}$ G G A A A A A A A A G GAAAAAAAAAAAGGAAGGGGAACCCCGGGGGG A A T T G G G G G G C C G G G G A A A A C C G G G G A A A A $\mathcal{A} G G G G G G G G G G G$ G GCCGGGGAAAAAAAAGGGGAACCGGAAAAAAAAGGGGGGAA G G G G G GAA A G G G G G G GCC G GAAAACCGGAAAAAATTAAAACC

 $G G A A C C A A G G A A G G G G A A A A C C G G A A A A A A A A A A G G A A A A C C$
 G G G G G G G GCCAAGGGGAAAAGGAAGGGGAAGGAAGGAAGAAA G G A A A A G G A A A A G G A A G G G GAAGGGGCCGGGGAAAAGAAAAA G G G G A A A A A A A A G G G G A A A A G G G G A A C C A A A A G G G G G G T T G G
 G G G A G G G GCCAA G G G G A A CATTAGAAGGAAAAAAGGCCGGCA AAAAAAGGAAGGGGGGAACCAAAAAAGAAGCCGAGGC
C G G G G G G A A A A A A C CAGAGGGGGGGAAAAGGAAAAAAAAGG

 CAGAAAAGGGGAGATTACCCGGAGAGGACCCAGGGAAGAAAAA A G G G A A C A C A G A C C A A G G A A C A A A G A A A G GAG GAA G G A A A G A $A G C C A G G A A A G G A A G G G A G G A G G A A G G G A G A G G A A A G G A G G G$ A GAGAGGACCCCCCGGAAGGAAAGGGAAGGAAGGAAGGAAGG
 AACCAAGGGGGAAGCCAAAAAAGGACGGAAGAGAAGGAAACC G GAAAAGGAAAAGAAACAGGAGAAGGAAAACCGGAAGAAACC AACCCAACATGGAGAAAGAAGGAACCAAGGAAGGGAGGGGAA G GAAAAGGAACCAAGGGGCCGGTTGGAAGGGGCCAAAAGAAA GAGAAAAAGGGAAGAAGAAGGGGGGGCCGGGGAAGGGBCAAC AA $A \operatorname{GAA} A G G G A A A A A A A A A A A A G G A A A A G G G G C A A G A A A A A G$ GACCGGAAGAGAGAACACGGGGAAAAGGGAGAGAAGGGAAAC G GCCGAAAAGGGGGAAAGAGAAAGGAGAGAGAGGAAAGAGAG AAAAGGAAGGCCAAGAAGGGGAAGAGAGCCAAGGGGAAAAAA G G G G G GA G A A A G G G A G A A GACAAGCCGGAACGAGTTAGAGAA A A A A G G A G G G A A A A G G G A A G G G A A A A A A G G C C A G A GA G G G G G G GAGGGGGAGCACCAGGACAGGGAGGAGGAAACAGECAAABA GAAAAA $A$ A $A \operatorname{AAC} C A A G A A A G A A A A A G G G G G G G G A G G G G G A G G G$ GCGGCGGGGGCAAGGAAACATAAAGGAGGGAGGACCAAGGGA G GAAGACCAAGAGAGGAACCAACAAGAAAGAGTTAAAAGAAA
 GAGAAGGAAGAGAGGAAGCGCAGAGGGGGGGGGGAACCAGAA C C A GA GAA A G G GAGAAGGCCAAGGGGGGGACCAAAAGGAAAA GACCGAGGGAAAGGGAGGATACAGGGAACCAATAGGAGAGAG G G G G GACAAGGGAGGGAAGGAGGGAGGACACAGAGGGGGAAA GAAGCCAGAGAGGGGGAGAAGGCACCGGAAGAGAGGAGAGAC GAAGAGAAAAGAGACCACGGGGAAGGCAAAGGGGGGGGAGAA AA $A \operatorname{GAAAAAGGGGAAGGAAGGAACCAAAAGGAAAAGGGGAAAA}$ A A G G G G A A A A A A G G A A A A $G G G G G G A A C C G G A A A A G G G G G G G G$ AAGGGGGGAAGGCCAAAAAACCCCAAAAAAGGGGGGAAGAAA

G G G G G GCCAAAAGGAAGGAACCCCGGGGGGAAGGGGAACCGG $G G A A A A G G A A A A G G A A A A A A A A G G A A A A A A A A C C G G G G G G C C$ CCAAAAGGCCAAGGAAAAGGAAGGAAAAAAAAAGGGAAAGAG G GCCAA $C$ A A GCAAGGGGACCACAGAGAACCGGAGGGGGAAAA $C \subset G A A C A G G G A A G A C A G G G G A A A A A A A A A A A A A G T T C A G A G G$ G G A A G GA GCC G A A G G GCCGGAGAGCCAGAGGGGAGAAAAA G G
 A GAGAGAGAAGGGGAGGAGAGAAAAAAGAAGGGAAGGGAAAA GAAAGGAAAAAGGGGGGAAGAGAAAAGCAGGAGAABAGGGGG AAAACCGGGGGGAAGGAAAGAGACAAGAAGGGGAGAAAGGAG GACCAGCAGGAAACCGGGAAGGAAGGAGAGCCGACCGAAGAG AAAGGGAAAAGGGGGACCGAGGGGAGGGACAACGBAACAACC A A A A A A A A A CA A GAGGAGGGCCACGGCAGGGAGGAAGAGGAG A GAA A A A G G GAA $A \operatorname{A} G \mathrm{G} A A A A G G G G A C A G A G G A A A G A A G G G G G G$ CCAAGGGGAAAGAGAGAAGGAAAGGGGGAGGGAAAAAAAAGG AAACAGAAAGGGAGGGAAAGCCGGAGCAAAGAAAGGAAGAAA G G A A A A C C G G A A GAGGGGACAAAGGGAGAGGGAGGGAAAAAA G GAA $A \operatorname{GCA} T \mathrm{~T} G \mathrm{G} A C \subset C G G C C G A A A G G G G G A A A G G G G G G A G A G$ GAGGAACCAGGGAGAAGGAAGGAAAAGGGGAACCGGGGAGAA AAAGCCGGAGAAGGAAGAAAAGGGGGCCCAAAAAGGGACCAA GAGGGAGGACGAGGGAAAGGGAAGGGAAGGGGGGAAGGAGAA GAAGCAAAAAAGGGGGGGGGGGGGGGACAAAAGAGAAGATAG A GAACCAAGGGGGAGGCAGAAAAAGGAAGGAACCAGAAAAAA $G G C C A A G G A G G A A A A A G G A A C C A A G G A G A G G A G G T T A G A T G A$ G G G G G G A A $\mathcal{G} G G G A G G G G G G G G G G A G G A G T A G A A A A G A A A G G A$ C C G G G G GAACAGAGAAGGAAAGAGAGAAAAAGGAAAAAAGGG A A GAGAGGAAGGAGAAGGGGGGAAAAAACCAAGGATAAACAA C CAGGAGGAGAAAAGAAACCAAGGGAAAGGGGGGAAAAAAGG A ACCAACCCCAAAAGGGGGGCCCCACGAGGGGCACAAACAAA G GAGAACCGGAAAAAAAAAGACACGGAACAGAAGGAGGCCCC A A A A A A A A G G A CA GAGAAAAGAAGAGAGGAGAACAGAGAACA A GAGAAGGAGGACCGGCCAAAGCCGAAAGGGGAAAGAAAAAG
 AAAGGAGAGGGGCCCCAAAAAAAAAAGGAAAAAACCGGGGGG
 G G G G A A G GCCAAGGGAAAGGGAGAGGCCCCAAGGACGAAAAA G GCCGGGAAAAAGGGAAACAGAGGAAGAAAAGAGGAGGACAAA AAGGGGCCAAACACCAGAGAAAAAAACCGGAAGACAAAGGCC G G G G A A G G A T A G G G A G G G A G G A G G A A A G G A A G G A G A C C G A G A A A A A C C C C C C G A A G G G G G G G G G C C A A GAC CAA A G A A A A G G G G $G G A A A A G G G G A A G G G G G G A A A A A A A A A A C C A A G A A C A G A A G A$ GAGGGGGGAGAGAAAGGACAACGAGGCAGACCAAGAAAGGGG $A A C C C C A G A A G A G A G A G A A C A A G A G G A A C C A G A A G A A G A A G G$ A GAGGAAAACAGAGAGGGGGGGCCAAGGAAAAAAGGGGCCAA G G A G A G A A G A A G A G A G G A G G G G G G G G C C G G C A A G G G G G A G G G
 $G G C A G G C G A A G A C C G G A A G G G A A A G G A A A C A A G G G A A G A A A G$ GAGGGAGACAAGGGAAGGCCGGAAGGAAAAAACCGGCAGAAG $C C A T A A G A A A C C G G G G T A A A A A C C G G G G A G A G G A G A G A C C B A$

 G GCGGGGGAAAAGGAAGGCAGCAAAAGGAACCGAGAAAAGBC $A C A A C C A G G G A A G A A A G G A A A A A A G G T T C C G G C C A C G G G G G G$ GGACCCAAAAGGGACCAGCAAAAGAAGGGAGGGAGGAAAGAG G GCC C G G G G G G G G G G G G G A A G G A A G GAACCAACAGAAAAGAA G GAGGAAACCAAGAAGCGGGGAGGGACCGGGGACTTGGAAAA
 GAGAGGAAGGGAGAAGACGGAGAGGGAGGAGAACACAAAAAA $C \subset A G C A A G A A G G A A G G G A C A A A C A C A G A A G G G G A A G A A C C A G$

GAGGAGGAAGCCGGGAAGGAGAGGCCGAGGGGCCCAAGGGGG GAAGCAAGGGGGAAAAGGACAGAAGAGGCAGGAAAAGGAA GA
 AAACGAGGGGAGGAGGAAAGCAGAAAAAGGAGGGGGGABAAG GGAGCCAAGAACGACAAGAAAGGGGAAAAAGGGGGGAAAGAA G GAGACAAGGGGCCGGCCCCAACCGGCCGGCCAAGAAAGGAG GAAGAGCAGGAAGGACGAGAACGGGGGGAGACAATTGGAAAC A G G G G G G A C C A G G A A GAGAAGGCCGGCCACCCCAGGGGCCCC
 G G GAGGGGAAGAAGAGAAAACCAAAAGGGGGGGAAAGGAGAA
 G GCA GCAGGGCCCAACAAAGGGTAAAGAAGAGGAGAAAGGGG A A G G G G G GCCAGACCAGGGGAGGGGGGGAAAAGGAGGAAAAA A GAACCGGAAAAAGAATAGGAGGGGCGGAAGGAGAAGGAAGAG GAAAGAAAGGAAAAAAAAGGAAGAAGAAAGATCGGGGACAAA GAGGCCAAAAAAACGAGAAGAAAAAAAAGGCCGGAACCGGAC A A A A A A A A GAA $A \subset G A A G A A G C A C C G G A A A C A G A A G G G A G G T T$ A G G GAAAAAAGGAACCAAAGGGAGGACAGAGGGAGGGAAGAA G G G G G GAGGGCCTAAATTAAAAAAGGCCGGAAGGGACCAGAA C C A A G A A G T T C A G A G G A A G G A A A A A A G G GA G G C C G G A G A G A A A A G GAGCAGAGAGAGAAAGGAGCAAGAGGAGGGGGGAAAAAA G GAGCCAAAAGGAAAAGGGGGGAAGGTTGGGGGGAAAGGGGA
 A A GAGGACCAAGCCGAGAAAGGGGAGAACCGGGAGACAAAAA
 A GAA A G G G G G G G G GAGCCGGAGGGAGAAGGCAGGAAG
G GACGCCAGAAGGGAAGGGAGGGGGAGGGAAAAGGAAAAGG A A A G ACGGAGGGAGCCGGGACAAGGGGGCCAGGAGAGAAAGB A A A A C A A A T T G A G A GAAAGGGGGGGGGAGGACAAAAGAGGAA G GACAAAACAGAAGCCAAATGGAACCGAAGAGAAGGGGAGGG AAGGAACGAGAAAGACCAGAAAAAAAGGGGGGAGAAAAAAAA A G G GAGGGACAAAAAGAGGGAGGAAGAGAAGGGGGGGGACAA $A G C C C A G G G G G G C C G G A A G A C C G A A A A G A A A A G G A A G G A A G G$
 G G A A A A A T G G A A A A G GAGCCAGAAAGGACCAAGGAGAAAGA G $A C G A G G A A G G G G G A G A A A G G G A G G G A G G G G A A G G G A A C A G A A$ A G GAGAGGAACCAACCAGAAAAGAGAGGGAAAAAAAAGGGAA AAAGAAAGCCGGAACCAAAGAAGGGGCCAAAAGGAAAAAAGA A A A A A A G G A A A A $\mathcal{A} G G G G A A G A G G G G G G G G A A G A A G G A A A A G G$
 GAGGGAGAGGGAGGAAAGAGGGCAAAAGAAGGAAAAAAAA GAG
 AGGGGACAGAAGAAAAGGAGGGCCAACCAAAAGGAGAAGGGG A GCAGGAGGACAGGATGGCCAAGGGACAGAGAAGAAGAAAAA G G G G G A C A GC G G A A G G A A G G A G A A G G C C A G A G G G G G G G C C G G
 G GAAGAGGGAGAGGAACCGGAAGAAAGAGAGAAAGAAGAGAA GAGGCCGGGAGGGAAAGAAAAAAGAACCGGGGAACCCCAGCC ACGGGAAGAGAGAAGGGGGGAGGGAAAGGGGGAAAAAAGGAA A G GAACGGAGGAGGAAGGAAGGGGAAAGGACCGGGGGAAAAA A A G G A G G G G G G A G A GAAAAGGGGGGGGGAAAGACAAAAAAAA GGGAGACCGGCCAAAAGGGGAGGGGGAAAAGAAGAGGGAGGG A G G G G G A G G G G G A A G G A A G G A A G G C CAGGGAAAAAAAAC A A A GAAAGGACACGGAAAGTTAACCGGCAGGGGGGAAAAGGCCAA G GCCGGAAAAGGGGCCAAAGGAAGGGAGAAGAGAAAAGAGAA A A A A G GCCAAA A G G A A A G GAGGGGAGAACCAGAGAAA GAA G G $A G T A G A G A G G G G G G A A G G G G C C A A G A A A A A G A G G A C A A A A A T$ $G C G G A A C C C C A C G G G G G G A A G G A A G G G G A A A A G G A G G G C C C C$ A G G GAAGGGAGGGAGAAGAAAAGAAAGAACAAAAGAAAAAGG
$C \subset C C G G C A A G G G G G A G A A G G A A A A G A A G G A G G A A G G A G A A A A$ G GAGCACAGGAGGAAAAACCCGACAGAAAAACAAGGCCGGGA AACCGGAAGAAAAGAGGGGGGGAAGGAAAAGGGAGAAAGGAA A A A A G G GACCACGGCCGGTTAAGGGAGGGACCAGAAAAGCAA AA $A G C A G A G G C C G G G G T A G G A A G G G G A A G A G A A G A G A G G G A G$ A A A A G G A GCC G A A C G G A C G A G G G A A G GAGGGGAA G G T T A G C C GAGGGAGGCCTTACAGACAAGGAGAGGGGAAGAAGGGGGGAG G GCAGAGGGCCAGGAAAAACAGAGGGGGCAGAGAAGAGAAGG C A G G G A A A A A A GCC G A G A A G G G A G G A A A A A C C A A GACAA C C C AAAGAAGAACAAAAAGAGAAAAACCCAAAGGGGGAAAGAGAG G G G GCCGGAAGGGGCAAAGGAAAGAGAAAACCGAGGAAGACA GA $\operatorname{G} G A \operatorname{A} C A A A A G A G A A C A G G G G G G C C G A G G A A G G A A G G C C G G$ C C G G G G G GCCAGAAGGGAACGACAAGGAGAACACAAAGACAA A A A A A A G A GAC GAAAAAAAGGACCGGGGAGGAGAAGGGAACA G G G GAGGAGACCCCAAGGAACAAAAAAAAAAAGACCAGGGGG AA $A G G G A A A A A G C C G A G G G G T A C C G G C C A A A A C A G G A G A A A G$ A A A G G A A G A A G G G G G G C G A A A A A A CAATGC GAGACCAA G GAA A GACAAAAGAGGGAGGAGAGAGGGCCGGGGGAGAGAAAGGAA AGCCAAAAAAAAGGAAAACAGAGAAGAGGAAGGAATAGAGGA
 GAA A A A A GAAAACCGGGGAAGAGGGAGAGGAAGGGAACGGCC A A A A A A G GAAGGGGGAGAGGAAAAGGAACCAAGGGGCCAAAAA AAAAGGAAGGGGAACCAACAGACACCAGGAGGAAAAGGAAAG GAGGAGAGAAGGAGAGAGAAAAAACCGAGGAAGGGAAACCCC GA GAGAAA GAAGGGGAGAACGGGAGAAAGGAAAGGACCCCGA A A A A GAAGCAGGGGGAGGAACCAAAACGGAGAGGCCAAGGGG A G G GCCAGGCGCACGAACGGACGGCGGGAGAACCCCAAAGAA C C G A G A G G GAACGGGGAACAGAGAGGAGGGAGAGAAAAGAAA GAACGGAAGACAGACAGAAAAAGAGGGGCCGGGGACCCACAG A GAG $A \operatorname{A} T A G G G G A G G G A A A A G G A G C A G G T T C C G G A G C C C G B A$ G G G G A G G G A G A A G A A A G GAGAAAGGAGAAAGGAA G GAA GAGA G GAAA $A \operatorname{A} A \operatorname{A} A A G G G G A A A A A G G G A A A A G A G A A A G G G G A G G G G G$ G G A A A A A A A G A A C C G G G GAAGGGGGGACGAGACCAGAAAAAG GAGAAAGAAAGACAGAGAAGAACCCCAAGGAAAAAGAAAAAA A G A A A GAAA A GAAAAAGGGAGAACCCGCGGACAGCCAGAAGG GAGGGGAAGAGAGAAAAGGGAGAAGGAAAGGGAGAGGAAA GA G G G G GA $\operatorname{G} G \mathrm{G} G A A C C A A G G G A G A C C A G G A G G G A A G G A A A G G G G$ G G G G G GAC T T G G GAAGCAAAAAAAGACAAAACGGAGAA GA GA AAAAAGGGAAAAGAAAAGGAGAAAAGCCAAAGGAAAGAAACC AA $A \operatorname{GA} A \mathrm{~A} A A A G G A G G G A A A A C C A G A C A G A G A G A A A A A A A A C C$ C C G G G GAGGGGGGGGGAAAGAAAAGGACCCGGGGCCAGAAAA AACCCACCGGGAGAAAAGGGAAGAAAGAGAAGCCGAAAAAGB G GAAGGGAGACGAGAGAGAAAAGGGGGGGGCCAAAAACAAGA A A G G A A A A A G A A A A G GAAA $A \operatorname{AGACAAAAAAGGGGGGCCGGGGGG}$
 $A G C C G A A A A G C C A G A G A A G A A G A G T A A A G G A A A A C C A A G G G G$ AACCGGGGGGAAAAGGAGGAAAAAAAGACACAAGAAAAAGAA AAAGAAGGCCAAGACCAGAATAGGCCGGAAAAACGAAAAAAA $C \subset A G A C A G G A G G G A G G G G G G G G A A A A G G A G G G C C G A A G A G C C$ GAAAACAAGAAACCAAGGGGGAGGAAGGAAGGCCCCAAAAGG G G G G G G A A G G G GAA $A \operatorname{GGGACCAGAAGGATAAGGACGGGGAGCC}$ AA GAAAGGAAAAAGCAGGGGGAGAGACAAGAGCAGAAACCCG A A C C G G A A C C G G T T T T A GTTACAGAAAGAAACAAAAGGAAAA GGCCGAAAAGGAAAGGCCAAGAGAAAAGCCCAAAGGAAGAAA
 AAAAGGCCAACCGGAAAGAAGGGAGCCAAAAGAACCGGAGGG AA $A \operatorname{GGG} \operatorname{GA} A A A G G G G G G A A C C A A A A G G G G A A G A G A G G A A G G G G$ G G G A A A A A A GAGGACACCACGGGGAACCGAAACCAGAA G GA G G G G GCCGGGGGGAAGGAACCCCGGGGGGCCAGAAGACAAAAA

A A G G A A A A A G G G G G G G A A G G G A A G CA GAGGAAGAACAGAGAG C CAACCGAAAAAAAAAAAGGCAGGGGAACCAGGAAGCCAAGG $G G A A G A A A G G G A G A G A A A A A G G A A A A G A A G C C A A G A A A G G G G$ A G GAATGGGGAAGGGGAAGAGGGGGGCCAGCCAAGAGAGGGA AAAAAAAATTGGCCGGCCGGAAGAGGAAAAAAAAAGAGACAG A A A A G G G A G G C A A A A A C C G GAA A G A A GAGGGGGGA G G G A G A G G G G G G A A G A G G A G G A G G A G G A A G A G G G A GAGGAGGG GAAAAA G G GAGCAACCGAAGAAAGGAAGGGAACGGAGGAGGAAACGAG
 GAAAGACCCCGGACGGGGAAGAAGGGGGGGAACCGGAGGAGG
 G GCCCCGGGGAAAACCAGACGGGAGGCCGGGAGGAAGGGGGG A A GAA A GAGAGGGGAGAGAACCGGAGGAGAAGAGGAAAAGAG $G G A G G A A A A A G G G A A A G A A A A A A A G G A G G G G A G A A A A A A G G G$ G G G GACGAAAAGGGAAGAGAAAGGGGGACCGGAAAGCCAAGG G GAAAAAAAACCGGAAGGGGGGGGCCGAAACCGGAAAAAAAA G G G G A GAA $A \operatorname{G} G A A A A G G G G G G A A A A G G A A G G G G G A A A G A G G C C$
 G GAAGGCCGCGGCCGACGCCAGAGGGCAGGAAGGGGCCABAA A A GAAA A A A A G G G G CAACGGGAAGGGAGGGAAGGAAGABAAG AAGACCAGGAACAGAAGGAAAACACAAGGGAAAAGGGGGGGA G GAGCCAAAAGAAAAAAAGGAAGGAAAGGAGGAGCCGGAGAA GAGAGAAAAAAAGGGAGGAAAGAAGGCCAGGGAAGACCAAGB G G G GCCAA $C$ C G G G G GCCAGAAACAAAGGAGGAAGAAAGGAGAA GA $A$ A A A A A $\mathcal{A} G G G A G G A G G G G G G A G G G A A A G G G A G A A A A A A C A$ G G GAGGGAAAGGAAGAGGCAAAAGAACCCCCCGAAGG
$G C C G G G G C A C A G G A A A A A A A A A A G G C C G G A G G A G G G A C A C G$ AAAGCAAGACAGAGAGAGAAAAGGGAAAAACCAGAGCAGGGA
 A G G G G GCCAGGGAAAACCAAAAGAAGAACCGGGAAAGGGCTT C C G A A A A A GAGGGGGGCCAAGAAAAAGACCGGCABACBACCC G GAAGGAGGACCGAAGAAAGGAAGCCGGAAAAGGACGGAAAG A A TA $A \operatorname{G} G A G A A G G G G G C C T A A G G A A G G A A A G G A G G G A A G G A G$ A G G G G A A A CAA A GACCCCGCAGAAGGACGGGAAAAGGGGGAG
 ACAAAAAAATAGCCAGCCAGAAGGAAAAAAGGGGGGAAAAAA G G G G G GACAGGGGGGGAAGGCAAGAAAAAAGGAAGGGACAAA AAAAGGAGGGAAGGCAAAGGAAGAGAGGAGAGAGAACAAGGG G GAAACCCAACCAAAAAAGAAGCCAAGGGGGGCCAGAAAAAG G G A A A A G G A A C C G G G G A GAAAAGGGGAAGGGGAACCA GAAAA A GAAAAAATTACAGGGGGAAAGAAGGGAAGGAGGAGCABAAAG GACAAGGGGGGAAGAAGGCCGAAAAAGAAGAGAAGCGAAAAG GACCGAAGAAGGAAGGAAGGAGGGAAAAGAGAACAAAAAAGG GAAGGAGAAAGGGGAGGGCCGAGGAAAGAACAGGGAAGAAGC GA $\operatorname{G} G A G A G G G C A A A A A G G A G G A G A A G G C G G G G G A G A A G A C C C$ A A A A A A A A G G A A A GCCCAA GAAGGAGAAGAAGGAGGGGGGAC A GCAACGCGACCAAGGGGGAGAAGAGGAGGTAAGGAAGAAAG A GAGAGAAAAAAGGGAAGACACAGGGGGAGAGGGAAAAAACC
 C A A G A A G G A A G G G G G G C A G G G G G G C C A G A A G G G A G G G G G G G G GGCCAAGGAGAACACAGAAGAAAAAGAAGGGGGGGGAGACAA A GACAGAAGAGAAAGGAAAAGGAAAAAAAAAAAAAAAA GAAAA A A G G A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G C C A A A A G G G G C C B G A A$ G GAAGGAAAACCAAAAAAGGAAAAAAAAAAAAGGGGGGGGGG AAGGAACCAAAAGGAAAAAACCGGAAAAAAGGACAGCACCAA A GAAGCGGGAGGGGAAAAAAAGAGACCCAAAAGGAGBATACC GACCAGCCAGGGGGGGAAAAGGCCAAGGGAAACCGGGGAACAC C C A A G G C C A A G G G G G G G G G G C C G G A A G G G G G G A A G G A A A A G G AAGGGGGGAAGGCCAAGGGGGGGGGGGGAAAAAACCGGTTAA

G G G G A A A A A A G G G GCCGGGGCCAGGGGGCCGGCCGGAAAAAA G GAA A GCCGGAAGGAAGGGGAAAAAAAAGGCCGGGGAAGAAA AAGGCCAAAAAAGGGGAAGGGGAAAAGGAAGGAAAAGGAACC G G G GAAAAGGGGAAAAGGAACCCCAAGGAAGGGGGGGGGGCC $C C G G A A A A G G A A A A G G G G A A C C A A G G A A A A A A C C G G A A G G G G$ C CAAAAAAGGAAAAAAAAGGAAGGGGGGCCGGGGGGAAGAAA A A G G G G G G G G G G G G A A A A G G G G A A A A G GAA A GAA G GAAAAAA GGAAGGCCCCCCGGGGCCAAAAGGGGAAAAAAGGGGAAGGGG GGCCAAAACCAAAAAAAAAACCGGAAGGAAGGGGAAGAAAGG G GAAGGCCAAGGAAAAAAGGGGAAAAAAGGGGAAAAAAGAAA G G G GAA A G G G G GAAAAAAAAAAAGGGGGGGGGGGGAAAAAAAA G G A A G G A A $\mathcal{A} G G G G G G G G G G G C C G G G G G G G G A A G G G G A A G A A A$ A A G G G GAA A G A A G G G G A A G G A A A A GGAAAAGGGGCCAAAAAA G G G G A A G G GACCGGGGGGGGAAAAAAAAAAAAGGAAAAAGCC $C C C G G G A G G G A G C C G A C C A G G A A G G A A A A A G G G A G G G G G G G A$ GAGGAAAACCGGGGACGAGAAAGAGAGCAAAAAGAGAAGGCA GAGAAGCCAGAGAGACGGGACAAGAACAAGAAAGAGCAAA GA GCGGGGCCGAAGGGGGAGAAAAGACCAGGGAGAGGAGAGAAA GAGGAGGAGACCAAAAGGAGCCGGGGAAAAGAGAACAAGGGA GAGGACAGCCAAAGGACACCAGGGGGGAGGGAAAGGAGAAGG ACGAGACCAAGGGGGGGAAAAAAAAGGAAAGAGAAGGCACCC GACCCAGGCCGGGGGAGAAGAGAGCCACCCGAAGGAGAAAGG GAGCGGAAGGAAGAAGGGAGCCGAGGAAGGACAGGAACGGGG
 G G A A A A A G G G G GAA $A \operatorname{G} G \mathrm{G} G A A G G A G A A A G C C A G G A G G A C A G G G$ $G C A A A A A C G A A G G A A A C A C C G G G G A G A A C C A A C C G G A A G G G G$ G G G G G GAA $A \operatorname{A} A A G G C C G G A A G G G G G G G A A A A A G G G G G A G A A A$ G G G A A A G G A G G G G A G G GAA A C CAAA A G G C CAA A GAGGAAA G G A A A A A A A G A A A A G A A A A A A CA GACAGAGAAAAAA GAA G G G G G GAGGGGTAAGGAGAGGGGGAGGAGAAAAGGAAGGGGCAAAAA G GAGGGGGAGGAACCAAAGGCAGGAAGGGGGGAAAAGGAAAA AAAAGGGAGAAAGGAAGGAACAAGAAAGAGGAGAAGGGAAGG AAAGACGGGGAGAAGAGAAAGAGGGGAAAAAGAAAAAGGGGA G G G G A A A A A G C A G G A G A A G A G A A GAGAGAGGGA GAAAA G G G G GAGGAGAAAGGGGGAGGGGGCCACCCAAGGGGAGAGAAACAA A GAGAGGAGAAAAGCAAGAAAGAGGAAAAGAAGGAAGAAGAA GAGGAAAGAGAGCAGAGGAGCACCGAAAAAAAGAAAAGAGAC GACAGAAAGGGACAAGGGGGGGAAGAAGAAAGGAGGAGAAAC A G A A C A C A A G A G G G A G A A G A A A A GAGAGGGAGAGAACA GAAC GAGAGAGGGGCCGGGGAAGGGGGAAAGGGGAACAAGAACCAG GGGAAGGGCAGGGGAAGAGGAAAAGACCAAAAAAGAAGAAAG A G G GCAAGGAGAAGAGAAAAAGAAGGAGGGAGAGACAAAGAA AGAGGAGGACAGGGAAAAGGAAGAGAAGAAGGACGAGAAAGG A G A A A G G A G G G GCCAGGAGGGGAAAAGAAAAGGGAGAACCAA GAGACCGGGAACAGACGGACAGGAAGCAGAGAGAAAGGAGAA ACAAAGAGAAGACAACGGAGCCAGGAAAAAAGACAGAAAGAG
 GAACGGGGAAGGAAGAGAGGACGAAACAGGCAAGAGAGAAGG GAAGGGGGGGAGAGGAGGGGAGGGGAGGCCCAAGGAAGAACC GAAGGAGGAAAGAGGAGGAAAAGAAGGGGGAAGAGACCAABA
 CACAA $A \operatorname{A} A \mathrm{~A} A \mathrm{G} G \mathrm{G} C A A A A G A G G G G A C A G A G G C A G A G A C A A G G G$
 GA $A$ A A $A \operatorname{A} A G G G G G G G G A A A A A A A A A A A A G A G G A A G A G G A G A A$ G GAA $A \operatorname{GCCA} A A A A A G G C C G G A G G A A A A G A A C A A A A C G G G G G A$
 A A GAAAAAGGAAAACCAAGGGGGGAAAGAACCAAACGAGGGG A GAGAGCAAGGGCCAGGGGAAAGGAAAAGGGGGAGAAAAAAG GAACCGAGAGAGACAGCAGAGAAGGACAACAGGAACACGGGG

ACAAAGGAGGAGGAAGATAAAAGGAGAGGAGGGGAAGAGAAA
 $A G A A A A G G G G A G G A A G G A A A G G G G A A G G G A A G G A A A A A G G G G$ AAACACCCAACCGGGGGAAAGGAGCCAATTAGAGGAGGAAAG $C C G A A A G G G G G G G A C C A G A A G G A G A A G G G G A G A G G G G G A G A C$ GAAAGGCCAAGGAAAAGGAAAAAAGGAAACAAGGAAGAGGCA GAAGAAAAAAAAGGAAGAAAAACCCCAAGCCAACGAAAGGGG GGGAAAAGAAAAGGAAAGGGACGGAAGAGGTAACAGAAGGCC A A G G G GAACCCCGGAGAGCAGAAGAGAGTTGGGACAGGAAAA GGGGCCCCAGGGAAGGAAAAAACAGGCCAAAAGGAAAGAGGG G G G GCCCCGGCCAGAAGGAAGAGAAGGGAGGGGAGGCCAAGA A A A G G A A G A A G A G G A A GAAAGGGGGGCAGGAAGGAAAAAAAA
 A A G G C A G G G G G G C A A A G G G G G G A A G G G A A G G A C C A A A A A A G G AAAAGGGGGGCCAGGGAAAAAAGGAAAGGCGCGAAGCACCGG G GAA $\operatorname{G} A \mathrm{~A} G A A \operatorname{A} A A A A A A G A G C A A G G A C A C C A G G G G G G G G G G G$ G GAA $A \operatorname{GAA} A G G G A A A A A G G G A A A A G G A G G G G G G G A C G A G A A G$ G GAAGGGGAAGGCAGGGGAAGGGGAGAGACCCGGAAGGAAGG A G G G G G G G GAAAAAAGGAAAAGGAAAAAAAAGGAGCAGGGGGG
 AAGGCCGGGGGGAACAGGAGCCAAAAGGCCCCAACCAAACAA A G GAGGAAAAGAAAAAAACCAGCAAAAAAAGGGAAAAGAACA GACCACAGACAAAAAAAAAAAAAGACAGGAGAGGGGTTGGGG
 G G A A A G G A G G G GCACAGGGGAAACGAAAATCAAGAGAGCACA A A A A A CA $A G G G A A G G A G G A C A G A G C A G G G G A A A G A A C$
CAAAAGGAAAGCCCCGGGAAAAAGGGGAGGAGAAGGGGGGG G GCCAGCCAACCGGAGAAAACCGGAAGGGAAGGGAACCAAGAG
 AAAGATGGGAGAGAAGGGCACAAACCGGCAGGGGGGAAAGAA G G G G G G G G A A A G A G A A A A A $\mathcal{A} G G A A C G G G G G G G G G A A A A A A G G$ AGAGCCGGAAGGGAGAAGATGGAGGGCCAGGCAACAGGGGAG A A GACCGACAGAAAGAGAGGGGGGGAAGGGGGGGAAGGAA$G A$ A A G G A G G A A A G G A G G G A G G G A G G G G G G A C A G A A G C C G A G G G A A G G A A A A A $\mathcal{A} G G G G G G G A A G G G G A G A C G G A G A A A A C A A A G G A A$ A A G A G A C C A G G A A A G G G G A A A A G G C C A A A A A A C C A A G G G G G G G GAACCGGAGCAGGGGAAGAGAGGGAAAGGGAAAGGGGGGGG AAGAATGAAAGAAAAATTAGGGGGGGGGAGGGAAGAAGGAGG

 AACGCAGGAAAAAAAAAGAAAGAAGGGGAAAAAAAAGGAACBG A A A G A C G A G G G G G G G G C C A G G A G A G G A A G A T T G G G G G G A G G A G GCC C G G GCC G G G G G G G GAAAAAGGGGGAGGGACAA G GAAAA C C G G A G A G A A A C G G G G A G G G A G A G G GA GAAAAGGGGGAAT T G G A A A C A A GACCAAAAAAGGAGAGGAGGACACGGGGAGAAGA $A C G A A G G A A G G G A A G G C C G G A A G G G G A A C G G G C X A A G G C C B G$ C C C C G G G G A G G G G G G G A A G A C C G A A G GAA A G G G GAA A G A C A G GAGGAAAAGGAGCAAAACAAGGAACCAAAAAAGAAGACAAGA GAGGGGAAGGGGCCAACCAAAAAAGGCCACCAGAGGGGAAAC A G G G G A G G A A G GCCGGCCACAAGACCAGGAAGACAAAAAAAA A A G G G G G G A G G ACCAACC GAAGATGAAGAGAAAAAAGAACAA GGAAGAAGAGCCAAAAGGCAAAAAGGGAGGGGGGAAAAAACAC $A G C A G G G G G G A G A A G G G G A A A A C C G G G G G G G G G G G G A A G A A A$ AAGAAAAAAAGGAGAGAAGAGACCAAGGGGGGAAAAAAGGAA AAGGAACCGGGAAGAAAGGACGAAAAAGAAAAAAAAAAAACA A A G A G A A A T T A A A G G G G A A A A A G G G G A A G G G G G A A A TA G G G G A A A A G G G G A A A A $G G G G G A G A C A A A C C A G G C G A A C C C G G G G G G$ A A G A A G G G C A T T G A A G GACAGAAGAGAAAAAGGGGGAGAACC G GAAGGGGGGAAGGAAAAGGAAAAAAGGGACAGGAAGGAGAA

G G GAAACCAAGGAAACAAAACCCCGAGGGACAAAGGGGAAGA A G G G G G G G A A G A A A A A G GAACC GAAAAACCAAAAAAAGAGAA $C \subset G G G G G G C A G G G G A A A A A G A A G A A G G G G G A C A A C C A A A G G G$ G G G GAGCCGGGGGGGGCCGGGGAAGAGAAGGAGAAAAAACGG GATACCGGAAGGGGAGAAGAGGACGGGGGAGAAGAACCAGAA
 G G G G G G T T C C A A A A A A TAG GAAAAGACCAAAAAAAAGAAAAA AAAAAAAAGGAAGGGACACCAGAGAGAGAGAAAGAAAAGGAA G G G G G G C A G G A A A G A A A GAGGGAAGGGGAAAAACAAAGGGGA GAAAGAACGGCAGGGGGGCCGGGGAAGGAGGAGGGGAGAGAA AAAAGGGGCCAGGGAAAAGGGGGAGAACAAGGGGGAAAAAAAA A GAGGGGGGGGGGAAAGAAGGGAGAAGGACACGAGAAAGGGA $G G C A A C G G A A A C A G A A G A G A G A G G G A A A A C G A C C G A C G A A G B$ A A A A A A A G GAGGGGAGCCGGAAGACAGGAAAAAAAAGGAAAA AAAAACAGGGATGGAGGAAGCCGGAGAAGGAAAAGAGACAGG G G G G GA G GCCAAAAGGAAAACAACGGAAGGAGAAG GAAGAAA CAGGAAGGAAAAAGCCGGGGGGCCAAAGAAAGACAAGGGGGC A G G G A G G G A G G A A A G G A A G A A G A GC C G A GAGGGACCGG G G A A CAGGAGAGGGGAGACCAAGGAAGGAACCAAAAAACAGAAGGG $A C G G A A G G A A G G G G A C A A G C A G G G G G G G A A A A A A A A G G A G G G$ A GAAAGAAAAAAAGAAAGACCCGGGGCCGGGACCAAAAAAAA AAAGCCAGATGAACGGAAGAACACAAACGGGAGGAACAAGGG G G G G G G G A G G A GACA $\mathcal{A} G G G G A A A A A A A A G G A G A C G A A A G G G G$ A G A A A A G G A G A A C G A A A GCCGGGAGGCAAAGGGGGAGACCAA

 G G GACAGGAAAGGAAGACGCGAAGGAGGCCGAAAAAAACGGC GAGAGAAAAAAAGGCCGAGGACGGGAGAGAAGACAAGACAAC
 GGGAGGAAAGCCGAAAAAAAGAGAGGAGGGAGAAGAACAAAC GAAAAGGGAAAAGAGGGAAGTAAACAGGAGGGAACCAAGGGG CAGGGAGAAAAAAAAAGGAAAAACCCCCGGAAGAAGAAAGAG A A A A G GAGGGGGGAAGGGAAAGGAGAGAAGAGCCGAAGAAAG G G GAAAAAACAACCGGGAGAGACCGGAAAAAAGGGGGGACAA CAGGAAAAAAGGGAAGAGGGAGAGCCAGAAAAGGGGACAACC G GAACCAAAAGGGGAGGGGGGGGAAACCCCAACAGAGGACGG A GAGAAAGAACAAAGGGAGGAAGAGGGGAACCGGGGAGAGGA A GAAAGCCGACCACGGAGAGGGGGGGAAGGGGAGAGAAAGCC A GAGGGAAAACCAAGGGGAAAACAAAGAGAGAAAAGGAGAGA A A A A A ACAAACCAGAAAAAGGGCAGGAGGGGAGAAGCAAAAC G G GAGGGAAAAACAAAAACCGAAAAAGGAAAAGAGAAAGGGG GAGGAAGGGGCCGAAGAGAGGGGGAGGGGGGGGGAAGAAA$A A$ GAAACCGGGGGGAAGGAAGAGGCCAGTTAAGAGAGGCCGAGG AAAGGGCCAACGAGCAAGAGCAAGAAAAGGGGGGGAAAAGCC GAAAACAACCAAGGAAAAGGAAGGAAAAAAAACCAGGAAAAG A A A A G GCAGGAACCCCGGAGCCAAGGGGGGGGCCAGAAGGAA G GAAAAAAACAGAAGGCCGGAGAGAGAAACAGGGAAGAGAGA AAAAAAGAAAAGCACCGGAGAGGGCCCCGGGAGATAAGGAGA GAGGAGGAGGGGAAGGAAAAGAGGAAGGAAGGGGCAAAAAAAA GAGGGGGCCAACAGCAGGAAGGAAAGAGAGGAGGGGGAAGAG GAAAAGCAGGGGAGGAAAAAAAGGAGAGAACCGAATGAGACC ACAAAGGGGAGGACGGAAAGAAAACGAACCAGAAAGCCGGGG CAAACAAAACAAGAAAGAAGGGCCGGGGGGCCACCACCAGAA AA $A G A G A A C C G G G G A A G G G G A A A A G G A A G G A A C C G G A G A G A A$ A A GAAAAAAGAGGACAAAGACCCCAAGGGGGGACGGGAAACC GAAAATGAGACCGGAAAAAAAAGAGGAAAGCCAGAGAAAACA AA $A G G G G G C A G G A G A A A C G G A A A C A A G A A G A A G A G A G G A G A G$ G G G G G G G A A A A A G G C C G GA GAC C CAA A A A G CAAAAAA A G G C A $A T G G A G A A A A A G G A G G G G A A A G A G A G G G A A A A C A A G A A G G G G$

A GACGGAGCAGGAAGGAAGAGGGAGGGGAGAAGCGAGGAGAA
 A A A A G G A A A GAAGGAGAGACGAGGGGAGACCCAAGGAAGBGA AACATTCCGAAAACGGGAGGAGAGGAAGCCAGAGGGAAACAG AACCACCCAGAAGAAAACGGAAAAAAGGGAGGGGGGGGAAGA G GCCGGCCCACCGGAAGGAAGGAAAAGAGGAAGAAAACBGCC G GAA $A \operatorname{GAAAAAAGAGCCGGGAAAAAAAGGAAAAGGAAGAGGCC}$ GAAAAGAAGGAGGGGGAGGAGGGGAAGGAAAACCGGAAAGAA A A G G G G G G A A A A $\mathcal{A} G A G G G A C G G A A G A A G A C A A A C A G G G A G A G$ GAGGGGAGAACCGGGGGGGGGGGGGGAAAAGAAATTGAACGG A A G G A A G G A A G GCC C G A A G G G G G G G A A A GAA A GA GA G G C C A A C C A A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G}$ GAAAGGGGGCCAACCGAGGGGGGCCAGAA A GAGAAGGAAAAGGACGGCAGGGAAGGAACAAGGAAAAAA GA $A G C C G G G G G G C C A G A G A G A A A A G A G G G A A A G A A G G G G G A G A A$ C C G GAA A A A GAACAGGGGCAGGAGAAACGAGGGAAAGGAGAA A GAA A A G G G G G GA GAGGAGAAAGGAGAACAGGAAGGGAGAAG
 A GAA $A \operatorname{GAACCCCGA} A G A C G G A G G A G G A A G G A A A A G A G G T T A G$
 A A A A A A A CAC G GAGGGAGAAAAGCCCAAGGGAAGAAAAGGAG GAAGAGAAGAAGCCAGAAGAGAACCCGAGAGACCGGCCGGAA A G GA $\operatorname{l}$ GAAAAGGAACAGAGGGGGGGGACGAAGGAGGAAGGGG G G G G A G G A A C G A A G A C G G G G G G A C A G A A C C A G G G A A G G G G A G A C G G G G G G G G G G A A $\mathcal{G} G G G G G A G A A A A A A G A A G G G G G C A C A A A$ A G G G G A A T G G G A A A A G GAAA A G C CAAAAAAAAAAA A G G GA G G G GAAAGGGGAGGGAGGGAAGGCCAAGAGACAAGGGCCG
$G C C A A A G G G A A G G C C A A G A G A G G T A G G A A A A A C A A A A C C G A$ GCAACCAAGGGGGAAAAAACGGGGAGTAAAAAAAAAGBAGCA G GAAGGGGAACCGGGGAACCGAAGAACAGGGAGAGACCAAGA ACAAAGAAGGCCAACCAAAAAAAGGAGAGAGAAAGGAAAAGA A G G A G A G A C A G A A G A G G A G G G A A A G G G G C C A A G G G A A A G A G A GAGAAAAAAGGACCAGGAGAAGCCAGAAACGAGGGGGAGAAA G GAGGAAGAAGGAAGGGAAAAAGAAAAAAACCGGAAAAGGGG
 A A G G A A G A G G A A G G G G G A GAGGGAAAAAAAAGAGGAGACGAA G G G G G G G G G GAAGGAAAGGGACGAGAAGAAAACCAAAA GAAA A A A GAAGGGGGGGGGGCACAGAGGGGCAGAGAGGAACAAAAG AAAGAGGGGAGAGGGGAAAAGGGAGAGACAACGAGACCAGAC CAAAAAAAGAGGAGAGGGCCAAGGCAGGGGGGGGAAAGAGAA G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGGCAAA A G G G G A A A G G G G G GAACCGGGGGGAGAGAACGACAGAA GAGA A A A A A A A G G G G A C C G G G G C C G G A A G G A A G G G G A A G G G G G G A A AAGGAACCAAAAAAGGGGGGGGTAAAGGGGAAAAGGGGAAAA
 $A C A G G A G A A G G A A A G G G G A A A A G A G G G G C A G A C C T A A G G G G A$ GAA A G G G A A A G G G G A A A C G A G G G G A G A G G G G G A G G G A A G G G G A G A A A A G G C C A A A A G G G G A G C C G G G G G G G G G A G G A A A A GAC C $A C A C A G A G G G A G A G A G G A G G C A G G G G G G C C A G A G A G G G G A G A$
 G G G A G G G G G G G G G G A A A A C C C C G A G G G G G G GAA A A A A C A G G G G G GACCCCCAGAGAGGGGAAGGCCAAAAGGGGAAAAGGAGAG C C GAG GAGAGAACCGGAAAACCAAGGCCAAAACAGGGGTTGG G G G A G G A C G G G GCCAC G G A A G A A G C C A A G A A A A A C C A A G G G G G GACAAAAAGGAAGGAGGAAGAAAAACCGGAAAA GAAAAGGG AAAAGGCCAAAAGGAAGGGGAGAAAAAAGGGAACAAAGAGGG A G G A A GCCAA G G G A G G A G A A G G G G G A C C G A G G G G G G A G G A G G G G GACCCCAGGGAACCGGGGGGGGAAAAACGAACAGAAAAAA G A G A A A A C G G A C A C G G G G G A G G G G G GCCA GACAAAAC A A G C C GAACGAGAGGGAAACCGGGGCCGAGAGACCGGAAAAACAGAA

C CAGAGGAGAGGAGAAAGAGCAAGCAAGGAAAGGGGGAGAAA G GAAAA A $A$ A A A G G G G A A A T G GAGGGAAAAAAGGGAGAAAAA G G G GAGAAAAAGAAAAAGCCAAGGAACCAACCAGAGGGAAAAGA CAGGGGAAAAGGGGAGGGAAAAAGAGGAGGAAAAGAGACAAG AACAGAAGAGACAGAGAAAGAGATAGCCGGGACCGGAGGGGG
 A GAG $A \operatorname{GGG} \operatorname{GAAA} \mathrm{~A} C A C C A A A A A G G C C A G G G G A C A G A C A A G G C C$ GAGGACGGCCAAAAACGAGGCACAGGAGGAAGGGAAGAGGGG C C T T G G A A G GAAAACAAGAAAGGGACAAGGAAAGCCAAAAGG GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGAAGAAG GAAAAGAGAAGAAGACGGGGAACCAAGGGAAGAAAAAGAAAA A GAACCCCCCGGAAACACAGAGAGAAGGGGGGGGGGAAAAAA C C G GAA $A \operatorname{GAAAAAGGACAGAACCGGGAAGAAGGCCAGGGGGAG}$ G G G G A G G G G G A A G G G G C C G GAA A G G GAAAAAA A A GA A A A A A G A GAA A G G G A A A A A C G A A G G A G G G G G A G G G GAGGGCCAA G G C C CAGGAAAGGGAACAAGAGAAGAGGAGGAGGAAAACCGAAAAA A A A G A A GA GAA A G GCCGGAAAGAGGGAAGGGAGGAGTA GAA G $A G G G G A A G A G G A G C G A A G A G A G G G G A G A A G G G G G G G A G A G G G$ $G G C A G G A A G G A A G A A A G A G G A G G A A A A A A A A A G G G B A A A A G G$ A A G G G G G G G G G G C C A A A A A A A G G G A G GAG GACA A A A A G G G G C G G GCAGAAAAGGAAAGGGGGGAGCCAGAGAAGGAACCGGEGAA
 A GAGGAGGCCGGAAAAGAGGGAGAGGGGGAGGGGAGACAAAA A GAGAAAAAAAAGGAAGGGGAAAAACAAGAGGAGGGAACACC G G G G G G G G A A C C C CAGCCAGAAAGGGAAGGCCAGAAAGAGGG G GCGAGCCGGAGGAGGGGAAGGAAAAGGGGGGAAAGAAAAAA GAGGGGGGGGAGAGAAGGAGAGAGAGGAGGAAAAAGAAGAGG
 G GAA A GCCAGGGCAGAGGAAGGACGGGAAGGAAGGAGAAGAG GAAAAAAAAGGGGGGAAGGGAAAAAACCCAGAAAAAGAAGAG A GAA A G G GAGGGAAGAACCCACAAAAAAGAAAGGCCAACAGA GAAAAGAAGGAGGGCCGGGGAGACGGGGGGGGAGAAAAGGGG GAAGCCCCGAAAATAGAAAGCCAAGAAAAGAGAAAAAAAAAA A A A A G G G G A A G G G G C C C C G G A A C C G G A A A A A A G GAA G GAA G G A A A A G G G GCC G G A A G GCCGGCCGGAAAAAAGGAAAAAAGGCC A A G G A A A A G GCC G G A A G G G G C C A A GAGGGGAAA G GAA G G G G A GAAGGGCCGGAAGGGGGGGGGGGGGAAGGCAAGGAAACGGGG G GAGAGAGAGAAAGACAGGGGGGGCCGGGGGGGGACCCCCCC AAGGCCAACCAAAAGACGCACAAAGAAAGGGGAGCAAAGGGG C C A A C C G G A C G A G A G G G A G G C C G G GA G G A A G GC C G G G G G G A A
 A A A A A A A ACCGGGGCCGGAAAAAAAAGGGGGGGGAAGAAAAA AAGGAAGGAGGAAAGAAAGGACGAGGGGGGAAAAAGAAAAAA G G G G A A G GCCAAGGGGGAAGGAGGGGAGGAAAGAAACCAATA $A C G G G G A A A A G G A A A A G G G G G G A G G G A A A A A A G A C A A A A G G G$ G G G A T TCCAGAAAAGAAAAACCACAAGGGGAAGGAGAACACC G G GAGACCGGCCCAAGGGGAAAGGTTACAAAGAAGGCAAAAG CAAAAAACGGAGGGACGGAAGAAAAAAGAGGGGGGGGGAGCA GACCAACCGGAAGGGGCCAAGGAAGGCAACGGAACAGGAAGA G GAAGCAGAAGGAGGAAGGCCCAAGGAAGAAAGGAGAAAA GA G G G G A GA G A G A GAA $A \operatorname{GGGAAAGGGAAGAAGAACGAAAGGGGGA}$
 G G C A G G A A G G A A G G G G G A C A G G C A A G G A GA GAGGGGGGA G A A G G GAGAGGAAGAGGGAAGAGCGGGGAAAATAGGGGACCAAAA G G A A A A A A A A G GAACCAAGAGAGGAAGGGGCAAACCGGAGAA A A G G G G A T CA G A A A G GAGACGACCAAGGAACAAAGGCCAAAA T T G A G G G G A A T TAACCGGCCAAAAAGGGAGGGAAAGAAAA GA GAAGGGGGGGAAGAGAAAGGAGGAAAAAAAGAAGAGAGAAAA $G G C C G G C G A C G G G G A A C A G A G G C A C C A G G A A G A G A A G G G G A A$
$G G T A G G A A G A G A A G G G G G A A A G A C G G A G A G G G G G A A G G A A G A$ A A A A G GA $\operatorname{A} G \mathrm{G}$ GCAGAAGAAGCCGGAACCGGGGAAAAAAAGAG $G G A A G G G G A A G G A A A G A A G G A G G G A G G G G A G G A A A C A G A G G G$ GAAAGGCCAAAAAAAAGGGGAAGGCCAAAAAACCAGAAGGGG G GAGGGGGGGAACAGGGGGGAGGGAGGGACAGCCAGAACAAG GAGGCCAAAACCCGGGAGAGGGGGCCAAAAAAGGGGGAAGAG A GAGAAGGAGAGGGAACCCCAAAAAGGGAGAGGGAAAAAACC GAAAAACCGGCAAAGGGGCCGGAGGAGGGAAAGGGGGAAAAA A G G G G A G C A G A A G G G G G A G G A A G G A A A G A CAAAAA A A CA G G G AAGGAAAACCGGAAAAAGAAGAGGAGGAGGACGAAGGGGGGG G G G GCAAA $A \operatorname{A} G \mathrm{G} A A A G G A A A A A C G A G G A A A A G G G G A A G A G G A G$ A A A A G G G GCCAACCGGGGCCCCGAAAGAAAGGAAAAAAAAGG A A A G A A A A G G A A A A G G G GAAA A A A GGAAGAGGAACACAAACA $A G C C A A A A G G G G A A G G G A G A A G G G G G A A G A A A A C G A G A C C A A$ C C G G A A C C A A G A A G G A G G GA G G G G G G C C G G G G A A G G G G G G C C

 A A G G A G G G G GCC G G A A A A G G G G A A G GAGGAACAGAGGAGGCC G GCAAGGAGGAAGAAGAAGAGAAAGAGACAAAAAGGCCCGAG AAAAAAAAAGAGGGGGGGAAAGGGAAGGCAGGACAGGGAAGG A GAAGGGGGAAAGAAAGAGAACGGCCGGCCAAAAGGACAGCC

 G G G G G A A G A A A G G A G A A A A A A A G G CAACA $A$ A A G G G G G G G A A G G $A G A G A A G G A G G A A G A G A G G A G G A A G A G A G G A G G G A G G G A A C C$ A A G G G G G G G GAGGGAGACGAAAGAACGGACAGGGGGC
AAGAGGAAACCGAGACAAAAGGAAGAGCCAACCGGGAGAAA CAACGAGGGGAAGGCCAACAAGGAGAGAAAGGAAAAGGGGAA G GAA $A \operatorname{GCC} G G A A A A A A A G A A A A A G G G G G A A C A A A A G G A G G B A$ GAGGAGAGGAAGGGCAGGAAAGAGGGGGAAGGGGGAAAAGAA G G G A G G G GCCCCCCGGGGCAGGAGGAGGCCAGGAGGAAGAGG GAGAACAGAGGAACAAGGGGGGGGAAACGGGGGGGAGACCGG A G G GA $A \operatorname{GA} A \operatorname{A} A A A G G G A G A G G G G G G G A G G A G A A G A G A G G G A A$ C C GA $\operatorname{Cl}$ GAGAGACAGAAAGAGAGACGGAGGAGAAGTTGGGGAG GAGGGAGGGGAACCCGAAAGGGAGAAGAAAAAAAAGAACAAG G G GACCAAGCAAAAAGGGAAGGCCGGGACCCCGGAAGAAAGG $C C G G G G G A A G A G G G G G T T G A G G G G G G A A A A G A G G A G G G G G T T$
 C C G G A A A G A A A GAA $A \operatorname{GGGGAAAAAAGGAACCCCGAGGAGAGAA}$ $G G C C G G G G A G G G A G C C G G A A A G A G A A A G G A A G A A A A G G A G A A$ $A C G G A A C A A A G G A A G G A C A A C C G G A G G A A A G G G G G A A G A A G A$ A GAGAGAACCGGAGAGAAGGAAGAGGAGAAGAGAGGGAACBG AGAAAACAAGGAAAAGGGGGGGGAAAGGGGAAGGGGCCAAAG A G G G A A A G A A G G C C A A A A G G A G G G A A G A A C G G G G A A G G G G A G A GAGCCAAGGGAGAAAAAGGGGAAAACCGAGGAGAGCAAAAC G G G G G G G G A C GAGGC C G A A G GAAAAGGAACCAAGGGGGAAA G G GGCCAAAGGGAGAGAGGGAAAGGGAGAAAGGGGGGGGAAAAA AAAAAAAAGGAGAGGGAGAAAGAGGGGAACGGAGGAGACAAA
 G GCAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A G G G A G G A G A C A C G G C C A A A G G G$
 G G G GCCGGACAGAGAAGGGAAAAGAGGACAGAAGGCAATTAC A GAA $A \operatorname{GGG} \operatorname{G} A A A A A A A A G G A A A A A A T T G A G A G G G G G G G G A A C C$ TTCCGGGAAGAGGAGGGGGAAAAACCGAGAGACAAGAGGAAA
 G G A A A G G A A G A A A A A G G G A A G G G A A GAGAGGAGAGAACACAA C C C C G GA $\operatorname{CGGGGGGGAAAGGACCAGGAAAGGAAAAAAGGGGGG}$ GA $A$ A $\operatorname{A} A \operatorname{A} A G G G G G G A A G G G G G G A A G G A C A A G G G G G G A A B A A A$ CAGGAACCAAGGCAGGAAAGGGAAAAACGGAAGGACAACCAG

C CAAAAAGAAGACAAAAAGGAGGGAAAAGGAGGAAGAAAAAG $A C A G A A A G T T A A A A G G G G G G G G C C G G G G G G A A G G A G G G A G A A$ G G G G G G G A G GAGGGAAAAAAGGAAGGGGGGAACCAAAA GGGG G GAAGGAAAAGGAAGAGAGAAAGGAGAGCCAGGAGGAACCGG $C \subset A A A A A G G A A C C C A G G G C C C C A A T A A A G A C A G G A A G G A A G G$ G GAGGGGAGGAGGGGGCCAGAAGAAGCCGGCCACAAGGGGGG G G G G G A A A C A GAGGGGAAAAAGAAAGGAGAGAAAAGGAAAAA AAGAGACCAACCAAGGAAGGGGAAGGAGAAGAGAGGAAAAAA A GAA A G G A G G A A A $\mathcal{A} G G G G G G A G G A C C A A G G G G C A G G G G A A B A$ $C \subset A A G G G A A C G A G G A A A A A C G G A A A A G A A A G G G G G G A A G A A G$ A A GA $\operatorname{A} A \mathrm{~A} G A \operatorname{A} A C A A G G A A G G A A G G G G A C G G G A A A G G G A A G G A$ $G G T A A G A A G G G G A A G G G G A G A A A A G G A G A A A G G A A G G G G G G G$
 A A A CAA A G G GAAAGAAGGGAAAGAGGCCAGAAGGAAGGGGCA A GGGAAGAAAACAACCACGAAAGGAGGGAAGGGAAGAAGGGG $C A C C G G C A A G A G G G A A G G G G G G G A A A G G A A G G C C G G G G A A G A$ G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A \operatorname{A} A A A A G G G G G A A G G A G A G A T G A A G A C A A$ G GACGAGAGGACGAGAAGGAAGGGGAAGGACAAAAGAAAGAA
 G G G G G G A C G A A GCC G G G A A A A GAAAGGACAAAAGGGGGAAAA AGAAGGGGACAAAAGGGGAGAAAGGGCAGGCCAGACGCCGAG A G G G A GA $A$ A $A \operatorname{GGA} A A A G G G G G A A G A A G G A G C G G A A G A G A G A A$ A GAACCAGAAGAAGAAAGGAATCCCAGAGGGGGGGGAGAGAA GAAGAAGGAAACGAGGGGAAGGAGAAGGAGCCAATXAAGGGG A G G A A C G A C C T A A G G G A A G G G G C C G G G G C C G A A G C C C C A G G G A A G G A A G G G GAAAGGGCCAGAGAGGGGAGAGAAACCAGACAA G G G G A GAGGAAGGGGGGGGGAAAAAAAAGGCCAAGGCCAAGA G G A A G G A A G G G G G G TACCCCAAGGGGAAGGGGCCCCCCACAA A G A A C A G G A A G G C C A A A A A A G G G G A T G G G G A A G G A G GACAC C A GCCAAAAAAAACCCCGGGGGGGGGGGAGGGAGGGGAGAGAG A GCCCCGGGACAAGAGAGGGAACCCAGGAGGAGAAGCCGAGG AGGGCCGGAAGAAACCGGCCGGCCAAGGGACCAAAGACAGGG A GAGGGCGGGAAGAGGGAAAGGGGAAGGGGAACCAAAAAAAA G G G G A GCA GAAAGGAAAAGGAAAAGGTTCCGGGGCCCCAGAA
 A A G G G G G G A G G G A G G G A A G G G A A A A A G G G GAA A G A A A A A A C C C C G G A A G G G G G G G G G G A A G G G G G G A G G A A G GA $\operatorname{A} A A A A G A A G A$ GAAAAGAGAACAGGAAAGAGACACAAGGAACCCCGGGGGGCC G G G G G G A A A A A A G G A A A G CAAA A G CAAAAAAGGAG GA GA GAA $A A C C G A G G A G C A A G G G C C G A G A A G G A G G C A A G C A C C A A G G G G$ AACCAGAAAGGGAGGGAGGGGAGGGAAACGCCGAAGGGAGAA A A A G G G G A A A $\mathcal{A} G G G A G G G G G A A A C G G G A A A A A A A G G T T A A G A$ GAAGGGGGACACAGCAAAAAAGGAGAAAAGAAGGAAGGGAGA AA A G G G GACAAACCGGGAAAGACCAAAAGGCCAAGAAAGAGG C C C A A C G G G G G G G G C G G GAAAACCAGGGAGAAACGGGAAC GA G G G A A A G G G A G GAAC CAAAAAGGGGAAGGGGGAGGAAAACAAA $A G C C A A G G G G A A G G G G A A C X A G G G G G G G A A G G A A A A A A G G C C$ GAAA A G GAAAGAAAAGAACCGGGAGGAAGGAAGAAAAAGGCC $C \subset G G G A A A G G G A G A G G A A C A A A G A C C G G G G C C G G G A G G G G A A$ G G G A A G G G A A G G G G G G A A C C G A G G G G G A G A A A A GA G G A A G A C A GAGAAGACCAGGGCCGAAGACGACCAAAGGGGGGGGGCABA $G G G G A A A A A A G G G A C A G A A C C G G G G A A G G G A A A A A G G G G G G A$ G G G G A A A C G G A G G G A G A A G G A G G G G G G A A G G G A G C A G G A A A G GAGAGAGGGGGAGGCAAGAGGAAAGGGGGGGGAAGGAGGGGA
 G G G A A A A G G G G A G A A G A GACA G G G GA GACC G GA G G GAA G G C C A A A A G GAA A G $\operatorname{A} A A G G A A A G G G G A A G G A A A G A G A A A A G G G G G G G$ $G G A A G G A A C C G G G G C A A A G G G A T A A G G G G G A A A G A A G G G G G G$ $A C C A A A G G A A A G C C G A G A A C A A A A G G A A A G A A A A A G G G C C A A$

A A G G A GAAAAGGGGCAACAAGGGGGGGGGGGGAGGGAAGAGG
 $G G C C G A A G A G A A A A A A G G G G A A C C G G G G A A G G G G G C A A A A A G$ AAAAAGGGTTGGGGCCAACACCGGAGAAAAGGAGGGGGGGAG A G GAGAACGGGGGAAGGGGACCGAGGGAGGCAGAAGGGAAGA
 G G G A A GCC $C$ G G G A G G G G G G G G A G G G G A A C A A A A G A G C A G G T T CCAAAGAGACAAAGCCGGGGAAAGGGAAGGGGAAAAAAGAGA AAGGAAAAAAAAGGCCAAGGAACAGGGGAGATAAAACAAAGG AAAGGGAGGGGAGGGGGGGGGGAAAAGACCGGAGACGGAGAA G GCCAGGGAAAAAAAGGGGGCGGAACGGACAGCACAGAAGGG GAAAAAAAAAGGGGGAAGAGAGGAAAAAAGGGGGGGGGAGGG A A G G G GAA A GCCAATTCCAAAGGGGACCGCAGGAGAAAAAAA G G G G G G G G G G G G G A A CAAGAGAGCCAAGAAGAAGAGCAGGCC AAAGAAACGGCAGGGAGGAGAGGGAGAGCAGAGGAAAGGGGA G GAAA A GAGGCCCCAGGAGGGGAAAGAAAAGGAACAAAATAG $A G A G G A C A G A G A G G C C A G G G A A G A G G G A G A G G G G A A G A G A B A$ G GAGGGAGAAAGAGGGAGAAGGGGGCAGAGAAAAGGCCAGAA AAGGAGGGGGGAGAGAGAAGAGAGAAAGGGCAACCCAAAGAG A G G A C A G G G G G G G A A A A G G G G G A G G GAAA A C C G GAAAAA A C A G G G G G G A G GAGAATAGGGAGAGGGATGGACGAAAGAGAGACA GAGGGGGAAAGAAAGAGACCGACAAGAAAAGGGGGGGAGGAA G GAA A A A G GA G G G G GAACAAGGGGAAAGGGAGGGA GAGAGAA G G G G G G G A A G G A G G A A G G A G A A A G G G A G A A GA $\mathcal{A} A A A G G A A G G$ A A G GCCAAGGGAAAAAGGACAGGGGAGGAAAACAGAAGACCA G G GAGCACAAAGACGGGGGGCCCAAGGAAGACGGCGC
AACGGAGAAGAAGGGGGAGACAGGGGAAGACGAGAGGGGCC G GAGAGCCAGAAAGAAAGAGGAAGGAGGAGGGGAGGCAGAAA A A A A G A G G G A A G A G A G G G A G A G G G A G G G G A A A G A A G A A G G G A GAGGACGAGAGGGGAGGGAGGAAGGAAGAAGGACAAGACAGAG G GAGAGCCAAAGAAAAAACACAGAGGAGAAGGAACAACAGGG AAGGAAGAGGAGCAAAGGAAAAAGGGGGGAACGAGAGAAGAG A A A A A GAAACGGGGAAGGGGGGAAAAAAGGGGCCAAAAAAAA G G G GAA $A \operatorname{GCA} G G A A G A C C G G A A G G G A G G A A A A A G G G A A G G A G$ G GAGGGGGAAGGGGAAAGGAAGGAGGGAAGGGAGAAAACCTA A A C C A A A A A A G GAA AGCCGAAGAGAGAGGGGGGGCCGG G GAA A A G G G G G G GCGGGAAAAGGAAAACAAGGGGGGAGGGCCAGAG A GAGAAAGGGAGGGGAAAGGGGCCAAAAAACAA GGGAAGGGG $A C A A G G A G C G A G G A G G A A G A G G G G A A A A A A G G G G G G G G G G A A$
 A G G GAGAGAAGGGGAAAAAGAAAAAAGGGAGGAACAAAACAA G G A A A G G A A A G G G GACCAAAAAAAGGGGAAAAAAACACAA G G A GAGAAGGGAAAGGGGAGGACCGAGGAAAGGGGGAGGAAAAG CACC G GAAA A GAACGGGGGGGGAGAGGGAGAAGGGGAGAAAG A A A A $\operatorname{A} G A A A A G G G G G A C G G G G G G G A A A A G A G A A A A A G G G G G G G$ GA $A \operatorname{GGG} \operatorname{GA} A G G G G A A G G A A G A G A A G A G G A G G G G A A G A A A A A G G$ AAAAGGGGGAGAACCCGGAAGACACCAACAGGGGGAAGAAGG GAGGGAAGAAGGGGAAAAGAAAGGAGTTATGGGGGGGGCAAA G GAAAGCCAAGAAAACGGACGGGAAGGACCGAAGAAAGAGAA GAAAAACAAGAAACGGGAGAGGGACCAGCCAAAAGGGGAAAA A A G G GAGGCAAGAAAAGACCGAAAAAGAGGGGGGAAAAGGTT G GAACCAAAGGAGAGAAGCAACGAGGAAAAAAAACAAA G GAAA A G GAGGGGAGAAGGGACAGAACAAAAAAGAAGAGGGAGAAAA AAGAGAAAGGAAGAAGCCTAGAAAGGGGGACCGGAAGGAGGG C CAGGGAGAAAAAAGGAAACAAAGGGCAAACACCGGCAAGBA G G A A G A A A G A G A A GCAAACCGAGAAGGGGGGGCCGGAGTTTA GAGAAGAGCCGGAAAAGGAGCATTAAACAGGAGGGGGGAGAA $G G G G A G T A A G A A C A A A G G A A G G G G C C G A G G A A G A A G G G G G G G$ GGAAGGGAACGAAGGGAAGGAAAAAGGGGGAAAAAGGAGGGG

A A A A G A A CAGGAGAAGGGCCGGGGAAGGGGAACAGAAAGAAA AGAGCCCCAGGAGGAAGGAACCAGAAAAGAACGCGAAAAAGG A A A A A A A A A A A A A A GAAAAAAAAAAAGGGGGGGGAAAAGGGG AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAAA AA $A G A A G G A A A A G G A A G G A A C C G G A A A A C C A A G G G G G B A A A A$ G G G G A A A A G G A A G G G G A A G G A A G G G G A A G G G G G G A A G G A A A A A A A A G GAA A G A A C C G G G G G G G G A A A A A A G GAA G G A A A A G G A A G G G GAAGGGGAAAAGGGGAAAAGGGGGGAACCAACCGGAGAA G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGGG $C \subset C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G G A A G G$ A A G GAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAACC G GAAAA $A \operatorname{A} A A G G A A A A A A A A A A A A C A A A G G G G G G A A G A A A C A$
 A A C C G G G G G G G GAA A G A A C CAAAA A G C CAA A G GAAAAAA A G G G G GAAGGAAGGAAAAGGCCAAAACCAAAACCTTGGGGAAAAAA $C C G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C C A A G G$ C C G G G G G G A A A A G GAA A C A A G GAA $A \operatorname{AGGGAA} G G G G A A G G C C G G$ A A G G G G G G A A G G G G G G G G G G C C G G G G G G C C A A A A A G A G G G G G GAAAGAAAAAAAATAAGGGGGAAGCAGAATCAGAAAGAACAA A A GAAAGAAACCAACCTAAAGGAGGGCAAGAAAAGGAACCBG G GGGCATTGGAAAAAGACCCCCAAAGAAAGTAAAAAGGGATT A A A CAACCAAAAAAGAAGAGAAGGGGGGCAAGGGGGAAGGAA
 A A A G A GAA A G G G G G C CAA $A \operatorname{AGCCGGGGAAAACCAAGGAAAAAA}$ G GAAAAGGGGCCCCAAAAAAAAAAGGGGAAAACCAAGGAGAA G GAAAAAAGGCCAACCAAAAAACCGGGGAAGGAAAAAAAAAA AAAAGGGGAAGGGGGGGGGGCCCCGGCGAAAGGGCCAACAGG G G G GACAGCAGGGAAAAAGCAGGGAGAAAAAAGGGACCGGGG G G A A C C G G A G GCGGGGAGAGAAGAAAGGAAGGGGGGAAGGGG AAAACCAACCGAACAGGGAAGGAGGAATGAGACAGAGGAGCC G G G G G GCCCCGGGGAGGGAAAAAAAGAACAAGGAGGAAAGAA $A G G G G G A G C C G G A A A A G G A A G G G G A A G G G A G A G G G G A A A G G G$
 GAAAAAGGGGAAGGGACCAAGGAAAAGGAAGGAAAGGAAAAA CAGAGAAGAGAACACCCGGGGGCCAGAGGGAGGAGACAAAGA GAGGGGAAGGACGGGGCACCAAACGGGGAAAAAAAGAAAGCC AA G GAA A G GACCAA G GATAAAGGGAAGAGAAAGACCGGGGGG A A A A A A G GCGCACCGGGGCCGGGGGGAAGGGAGAAGGGACAG G GAACAAAAGAAAAGAAACAGAAGGAAGGGCACAAAAGAAAC G G TACCAGGGACGGGGCCAAAAGGGGCCAAGGCCAGAAGGBA C CAAGGCAACGGAAGGAAGGGGAAGATTCCAAGGGAAACAAA A A A A A A G G G G A A A A A A C CAA $A \operatorname{AGGGAACAGAACGGGGGAAAAA}$ G G G G GAACGACCGGGGGAGGGGAGGAAAGAACACAAGGAAGA $A A G G A A G G G G G G A G A A A G C A G G A A A G G G G C A A G G A A A G A G A G$ G GCCAAAGGGAAGGCCAAAACGAAAAACGAGACCAGAGGGGA GACCGAGAGAACACAGCAACCAGGGAAGGGCGGAGAGAAGGA GAAGAGAGCCGGAACAAGAAAAAGCCGGCCAGAAGGGGAGCA G GAAGAAAGGAAGAGAGGGGAAAAGGCAAGAGGGCAAAAACA GAGAGAAGGAAAAAAAAAAAAAAACCGGAGAGGGAAAAAGAG A G GAGGAAGGGGAGGGAAGGCCGGCAAGGAGGGGAAAAAAAA G GAA A G G GAACCAAGAAGCCAAAGGGCCAGGGAAAGGAAAGAA G G G GA G A G A A G A A G A A GACAAA G GAACCGGGAGGCCCCGGGG ACAAGGCAAAGGCCAACCGGGGAAGGGGCCAAGGAAGGGGAA C CAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A G G G G G G A A G G C C A G A A A A A A G G A A$ AA G GAAGGAAAAAGGAAGGGACAAGGGGCCAAGGAAAAGGAA CACCACAACCCCCCAAGAGAAAAGCAGAGGAAGGAGACAAGAG G GCAGGGAAAGGAGGAGCGAAGAGAAAAGGACGAGGAAGAAA A A G GCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAAGAG GGAAGAAAAGGGGAAGAAAAGGAAAAAAGGAGACAAGAGGAA

C C G G G G A A A A A GAA A A G G G GAGGAGAGAGAAAAGAAAAGAAA G GCCGGGGGGGAGGGGACAGAGAAAACCAAAACCAACCAAGB G G G GCAAAGGGGGACAGAGGAAGGCCAGGGGGACAAAGAAGA AAGGAGCCAGGGAGAAAGAGAGGACCGGAGGGAAGGAACCAA A A A GACAGGGGGAGGGAGAGGGGGAAGGATAGAAAAAGAAAA G G G A G A A G A G A A C C A GAGGGGACAGAAGGAAGCCA GAGAAG G G GACAGGGAAAAGACAAAGGGGGGAAGGTAAAGAGGAAAAGA AAAAACGGAGAAAAAAGGGGAAAGGAAAAGAAGGAAGGGGGA
 G GGGCCGAACAAGGAAAAAAAAAAGGGGGACACAAAAGAGGA G G G G G GC G G G G G G G A G G G G GA G G G A A G A C A A A G G A A C C G A G G
 T T G A A A C CAC $\mathcal{C} G G G G G G G A A G G A A A C G A G G C A C C A A G G T T A G$ GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G A A A A A A G G \operatorname{A} A \mathrm{~A} A A G G A A C C G A G G G G A G G G G G G G G G$ AAGGTTCCGGGGGGAAAAAAAGGGCCGGAAAGAAGGAGGAGG GGCCAAAAGAGGCGGGGGAAGGAGGGAGGGAAAAAAAAAAAG
 G G G A G A A GCAAGGGGGGGAGAAACAAAACCAGCAAAAAAGAA AAAGAAGGCCCCGGGGAACCACAACCTTACGACCGGGGAAGG G G A A A A G G G G G G A A A A A A A A A A $\mathcal{A} G G G G G G G C C G A A A A A A G G A$ AACCAACAGGGGAAGAAAAAAAGGAAAAGAAAAGAGAGGGAA A A A A ACGGACAATTAAAAAAAAGCAAGAGGCGGGGAAGAAGAA AAAACCAAACGAAACCGAAAGAACAGGACACCAABAGGGGAG A ACAAAAAGGAACAGAGAGGAGAAGAGAGGAAGGAAAAGGAC
 $G G C C G G A A A A G G G G G G G G G G G A G G G A A G A G A C C A A A G$
GAGAAACAAAGGGAAGGGGCCAAGGAAGGAAAAACGGAGGG
 A A A G A A G A G G A GA GAATTCCGAAGGAAGGATTAAAAGAAACC C C G GAAAA $A \operatorname{AGGGAA} G G A G A G C A G G A G G A A G C A A A G A G A G G G G$ ACAAGGGGCCGAAACCGAAAGGAGAAAGCCAGAAGGACAGGC G GAACAAGCCAAGACCAAAGAAAAGAGAAGGACCGAGCGGAC AACCCCCCGGCAAGACGAGGGGGGAGAAAACCCCAAAAGGGG $G G C C A A A A A A G G G G A A G G A G G C A A G G G G A T G G G G G G A A C A A A$ G G G G G G A A G G C C A G A A G A A GA G G A A G C C G G G G A G A G A C G G C C $G G A A G A G A A G G A A G A G G G A A T T G G G A A A G G G A A G G G G G C C A G$ A GAAAAGCGGAAGGGGAGGGAGCCCCGAGGAAGGAAGGCCGG CCAGGGCCAGAAAAAGGAGAGAGGGAGAACAAAGGAGAAGAG AC G G A G A G A G G G G G G G A A A A A $\mathcal{A} G G G G A A G C G G G G C A A A A A A G$ ACGGAAAAGGCACAAGCAGAAAAGCCGGAGAGGAGAGAAGAG A G GAGGGGAGCCAGGAGGACACGGCCCCGGAGAGCCGGGGCA
 AGGAACGGGGCCAGAAAGAGGAGGACAGAGAAAACCAAAGCC $C \subset A A C C A A G G A A A A G G A C G G G G G G A A G A C C A A A A G G G G A A G A$ A ACC G GAA A A A A A G G GAGAGCCGGGAGAGGAACAAGAAAA G G
 GAGAGGAGGGAAGGGAACGGAGACAAGGAAGGGGBAGAGGGG
 A GAGGAGGGGGGAAGGGAAAGAAGAGGGAACCGGAAGACGGG G G A A C C A A A A G G G G C C G G G G A A G G A A G G G G A A A A A G G G G G A C G G A A G G G G G A A A G A G G G GC C G G A G A A G G G G G G A G A A G G G G G A A A G G G G GAGAGGGAAGGAGAACAACCGGAACCGGGGAA G GAA GAGGGAAGAAGGAAGGAAAAGGATGAAGGGGGGGAAGGGGCC $C C G G G G G G A A G G G G A A G G A A A G G G G G A G G G G G A G A G G G A G C A$ A G G A A C A A G GAAAACGGGGACCAGAAAAGAGGGGGGAGAACC AAAGAAGGCCAGAAAAAGGGAAAGAAAGCAAAAGGGGGAGTT G G G G G GCAGGAAAAAAACAGGGAAACGAAAGGGAAAGAAAAG C A G G G G G G G A G G G G A A G GCCCCAGAGCAAACACAGAAA GAAA $C \subset G G C A G A A C C A G C A A G G C A G G C C T T G A A G C C A A A G A C G G A G$

A G A A A A A G A GAGGGGAAGGGAAGGAAAGGGAAAAAAGAAAAA
 G G GAA A A G G G G A A G GAGAGAGAGACAACGAGAGAAGAAA GAA GAAGAAGAGAGAAAGGAGAACAGGGGGGGGAAGAAAAAGGGG $A G T T G A A G A G A G G G G A G G A A G G A A A G A G G A A G A A G A G G A G A A$ AAGGAAAAGGCCAGAGAAAAGAAGACACGGGAGAAAAAAAGG A A A A G A A A A A G GAA A G G GAAAAGAAGAGGGAGAAGGAACAAG G G GACAGAAGGGGGAGAAGGGGAAGAGGGACAGGCAAGAACA TATTGGAGCCAACAAGGGACGGAGAAAGCCGGGGGAACAAGA GAAGGGGGACGGAACCGACCAGGAGGGAGAAAAAAACACAAG GGCCACGACCGGGGGAAGAAAGACCAGGGGGGAGGATXAAGG C G G A A G G G A A G GAA $A \operatorname{GAAAAACCGGGGCCAGAGAAAAAAGGGG}$ GAAGAGAGCAAAAAGGAAGGAGGGAAGGAAAAGGGGACACBA GGAGCAGAACAGACCAAGAAGAGAAAAAAAAAAAGAAAAGAG G GAAGGAAAGCGAAAAACCCAAGGAGGAGGGAGGAGAGGGGG G GCC G A A G A G GAGGGGAGGGAGGGAGAAAGACAGGGGGGGGG G GAAGGAACAAAAATACAGGAAAAAAGGAACAATAGGGAAAA G G G G G A A GCCAAAAAACCGGCCGGCCGGGGCCAACCCAAAAA AAGAGGAAGGGGAAAGGGGAAGAGAGAATTGGCCCACAAAGG ACAAAAGAAGGGATGGCCGGAAAAAAAAAAGGAATTACAAAA AAGGAAGGAAAGAGGCAAGGGCCCAAACAGGGAACAAAGGGA CAAAAGAAAGAGAAAAAACCAGCCAGAAAAGAAAGAAAAA GA T TAAAGAGAAAGCCGAAAGAGGCCGAGGGAGGGGGACCCCGG ATAAAGGAGAGGACGGGGAGGGAGGAGGAGACGGAAGAGGAA AA $A$ AA $A G G G A A A A A A A A A A A G G G A A A G A A A G G C C G G G A G G A A$ GACCAGAAAGAGAGAGAGGGACGAAAAAAAGGCCAAGGGAGG A A GAAACCGGAAAAAACAAGAGAGGGAAGGCCAGGGCCACAAA G G GAA A ACCCAAAGAGAAAAAAAAGAGGGAGGGAAGGAAAAG
 GAGGAAGGAGACGGCCGGGGCAAGAAGGGAAAAAAAAGAGAA AGAAGAAAGGCCAAAACCCCACGGCCCCAGCCGAAGAAGGAA GGCCAGGAGGAAAAAGAGGGAAGGAGAGAAGGAGGACCGGGA A G G G G A A A A A C C G A A A A A G GAA $A \operatorname{GA} A C A A G A G G G G G A G A A A A$ AA $A \operatorname{GA} A A A A A G G G G C C A A G G A G G G G A A G G G G G G A A G A A G G G G$ A A A G G A A A C G A GAGGGGGGGAAGGGGCAGGAAAGAAAAAAAG A GAAA A A $A \subset G A G G G G G G G A A C C A G G G G G C A A A A A C C T X A A G G$ G GAACCAAGGAAGAGGAGAGAAGGAAGAAGCAAAAGGGAAGA A G GA $\operatorname{A} A \mathrm{~A} G A A A A G G A G A T G G G G A C A A G G A A A G A G G G G G C C G G$ A A G G G G A A G G A G G G A A A GAGAAGGAGAGAAACGGGGGA GA GA
 GAAGGAGGGAGAGGAAGAAGGGAGGGGACGCCGGGGGGAGAA A A GA $A \operatorname{GGG} G C X A A A A G G A G G A G A G A G G G G A A A T C C G A G A G G A G$ GAAGCACGGGGGGGAAGGGGAAAAGGAAGGAAGGAAGGGGGA A GACAAGGAAGAAAAAAAGAGGCCGGAAGAGGGACAGAAAAC
 $A G G A A G G G A G G G A G G G A A G G A G A A G A A G A G G A G G A G C A G G A A$ A GAAGGAAAGGAAGCAGAAGGAAGTAAGCCGGCCAAAGAGAA AAAGAAGGGGAAAGGAAGGACCGGGAGCAGCAAGAGGGAGAA G G GAAA A A A GACGAGAGGAAGGGAGAGGGAGAAACCTTGAGG AAAAGACCAGAGAGGAGAGGACACAGAGAGCAAGGACAAGAC A A A A G G G A G A A A A G G G G G G G G A A G A G C A A G G A GAAA A G G G A A AAAGGAGGCAGGAAGGGGGGAGGAAGAACCCCGCCCACAA GA AC GAAACGAAAAAGAGACAGAGAAAAGGAAGGAAAAAAGGGG AAAAGGGGGGGGGGAAGGGGGGAACCAAAAAGGGCAAGAGGA C CAA $A \operatorname{GGA} A G C C G A G G G A A C A G G A G A G G A A A C A A G A G A A C A G$
 GAAAGAATAAGGAGGGGAAAAGAAAAGGAAGGAACCAAAAAA A A G GCAG GAGAAAAAGGGCCAAGACCGAAACCGAAGCGAGAAA $A G G G G A G G G G A A G G G G G A A A G G G A G G G A A A A C A A A G G A G G G A$

TACAGGCAGAAGAGGGAGGGAAGGGAGGAGAGAGGAGGGGAC GAACGGAGAAAGAGAAAAGAAGGGAGGGGGGGAAA GACGGGA $G G A G A A G A G G A A G G A A A A A C A G A G G G A G G G G G A A A C A G A C A G$ AGAGAGGGCCAAGGAAGGGGAACCGGAAGGAAGAGGCAAAAG AACCAGAGGGAAAAGGCCGGAAAAGGGGAAGGGGAAAAAAAA G GAAAAAAGAGGAACCAGGGCCGGGGGGGCAAGGGGCCAAGG G GAA A GAGGGAAAAGGAGGGAAAAAACCGGCCAAAAAGAAAG $A G G G A A A A G G G G A A G G G G A A A A G G C C G G G A A A G G A G G G A A G B$ GAAGGGGGGGGGGAAAGAAAAGAAAGAGACGGAGGAACAAAA A AAAGAGGCAAGAAAGCCAGACAAGGAAGGCCAACCAAGAGA AACCGGGCACGGAAAAAGGGAGCCGAGAGGGAGAGGAAAAAA G GAAACACAGAGGAAAAAGGCAGGAGAAAAGGACAAGGGGGA GAAAGGGGAACACAGGGGGAAAAAGAGGTTGGAAAAAAGAGB $G G A G A A A G A G A A G G A A G G A A G G A G G G A G A G A A A A A A A A A A G A$ G G G G G G GAGGAAGACCAACCGGACAGCCAAAAGGGGGCACGG A A GAAAGGAGGGAAGGAGAAAAAAGGCCAAAGGGAACAAAGA A $G G G G A A G G G G G A A A G C C G G A C A A G G A A G G G G G G B A A G A G G G$ CAGGAAGACCGGGGAGGGGAAGGACCGGAAAGAGAGAAAAGG G GAAGAAAAAGGAGAAAATTGGAAGAAGGAGAGAGAAAAGAG A A A A A A GA G GAAAACAAGAAGGAAGAAGAGGGGGGGAAGAAA AAAAGGGAAGCAAGAAAAAGGAAAAAAAGGGGGGAAAAGAAA G GCCAACCGGAAAAAAAAGGGGGGCCAAAAGACCAACCGGAAA A A AC G GAAAAAACCAGAAGGAAGGGAGGAACCAAACCCAGGG A A G A A C G G G G G A G G A A G G G G A A G G A G G G A A G A A A G G CAA A A A A G GCCAAAAAAGGACGAGAACCGACAAGGGAAAGAGAAACBG A A A A A GACAA $A \operatorname{A} G A A A A A G A G G G G G C C A C C C C C A G G G A$
AAAGGAAGGACAAAGGGAAAGAAAGAAGGAGGGCAAGAGGG A A A G A GA $A \operatorname{GG} \operatorname{GA} A G A A A A G G A G G G G G G A G C C A A G G C C G G G G A A$
 GAAAAGAAGAAAAGGGCCGAAGAAAAGGGGAAGGGAAAAAAG GA GAAA A A A A GAGGAAAGACCCGGAGAGGGAAAACCGABAAG A GAGGGAGAAACGAAAGGGGTAAGAGGGCCGAAAAACCAAGA
 A GAG G A G G A A G A G A A A A A A GAGGAGGGGAAAAGGGAAAACAG


 A GAGGAGGGAAAGAAGAACCGGCCGGAAAAAAAAGGGGAACAC A G G A A G A G A T G G C C G G G G G G G G G A A A A G A A A C C A G A G G A A G G A GAGAAAAGGGGAAGGGCGGAACCAGAAAAGAGGACGEACAA GAGAAAAAGGAGGAGGAGAAGAGGGGGGAAGGACAAGGAAAA G G G G A A G G G A A A G G G G G G A A G G G G C C G A A A A A A A $\mathcal{A} A G G G G G G$ $A G C C C A G G G G A A A A A A A A G G A A G A G G G G C A G G G G G G G G A A A A$
 CACAGGGGAAGAAAAAGGGAGGATGGAGAACCGGGGAAAAGB CAGAGAAGGGAAGGAAAGAGAAGGGAAAAAGGCCGGAAGGAA A A G G G A A A A G A A GACAGGCCGAGGAGAGGGAAAGAAAGACAA $C \subset C \subset A A G G G G G A A A A A C C A G G A A A G A G G G G A A T T G G C C A A C C$ G GCCAAAAAGGGGGAAAGGGGGAAGAGGAAAAGGGAAGGGAA G G G G G G A A A A C C G G A G G G G G G A G A A A A A G GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G}$ G T T A A ACGAAAAAAGCCGAGGAAAGAGGGAAGGAGGGACGGCAAAGG C C A A A G G G G G G G G G G GAAAAAAAGGAAAACATAA AAA AAAAGG GAGGAAGAGGAAACGGAAGGACGGACGAAGAAGAAGGGBACA G GACGAAGAGAGAAAAAAGAGGCCGGGGGGGGAGGACAAGAG C C G A A A A CA G A T A G CAGGGGAACCCAGGGGCCCCAACCGGGG A A C G A G G A G G A GAAAAGGAAGCAAGAGAGATTCCGGGAGGAA
 C C A A A A G A A C G G A GAGAAGGCC GAAAGAAAACAAAGGG GAAA AAAGGGGGGGGAGAGGAGGACAAAAACCGGGGAGGGCAGAGG

GAGAGGGGGGGAGGGGAACAAAGGAAAAAAACCAAGAGAAGG A A A A GAGGAAAGAGGAGAGGAGAAAGGGAAAAAAGGAAAA GA G GAAGGGGACCAAAAGGGTTGGACAAGGAAAACCCCAGAAAA A GCCAGGACAAAGGCCCCAGGGCACCGGACACGGGGCAGGAA GAGAGGGGGGGAGGGGGGGGAGATAAAGAGCAAGAAGAAGAA
 G G G G G A C A A G A A A G G G G G A A GAGAGGAGAAGGAA GAAAAG GA CCGGCCAGGAAAAACCCCGGGGGGAAGCAGAGGGCAAAGGGG G G A G G G G G G G G G A A G A C A G A G G G G A G G A G G G G G G G G G A G G A A AAAGCCGGAAGGGGAAGGAAGGGGGGAACCGGAAAAGGAAGG A GAGACC G G A A A T T G A A G GAGGGAGGGGGGAA GAA GAA G G G A G G G GCCGGAAAGGGAAGGGGAAGGAAAAGGGGGGGAAA GGGA
 G GAAAAGGGAAAAGACAGAACCAAGAAGAAGAGAACAAAAGA AAGGAAGGGGAAGGCCGGCCGGCCAAGGAGGGGGACGGGGAA A A GACAAAAGAGGGAGGGGGAAGGAGAGGGGGGGAAAGAGGG G G G G A GAAAACCAAAGGAGGAGAACAGGCAAGAACCGGAGGG A G GAACGACAGGGGCCGGAACCGAGAGGCCGAGGGGAGAGAG AAGGAACCGGAACCAGAGTAAAAGACGGGGGAGGAAGGACAA A A G G C C G G G G A A C C C A G A A G A A G A A G A A A G A A A A G G A G G G G G GAAACAGAGAGGGAAGGAAGCACAGAAAGGACGAAGAGAAAG G GACGAACAAGGAACAGAAAAAGAGAAAAGAACCGGGGAGAA GAGGAGGAAGAGCCGGGGAAGGGGGACCCAGGGACCGAAAGA A A T T G G G C G G G G G G G A G A A A G G A C G G G G A A G GACAAAAAAAA A G G G G G A A A A G A A GAACCGGAGCCAAAGGAAGAAAATAAACC GAGGAGGGAGAAGGAAGGGGCAAGACGAAGAGGAAGAAAAAA AAAAAACCGAAAAAAAAGAACAAGAGGGGGAAGGAGGGACAAA A GAA $A \operatorname{GA} C G G A G A A G G G A C X A A G G G G G G A C G A G A C C G G G G G G$ G G GAAA A G C G G G G GAAAGGGGACGACAACCAAAGAGGGAGAG AGCCGAAAAAAAAGGAGAGGAAAGAGGGACTTAAAAGAGAAA A G G G A G A G G A A A A A G A A G A A G G G G A A C C A G A G G A G G G G G G A A G G GACAACAAGGGGAGGGGGGGGAGAGAGAAGGAGGAGAAAG A GAAAAAAGGCCCCAAAGGAACGAGAGAAGAGAGGAGAGAAC GAAGAGCAGAGAAGGGAGGGGGAAGAACAGGAAGACAGAA GA A GAGACCCAGGGGGAAACAGAGGAGGGGGAAGACBAGAAAGB
 G G GA $\operatorname{A} G A G G A G G A A A G G A G A C C G A G G G G A G G A G G G A G A G A B A$ GAAGAGGAACGAGGAGGGAAGGAGGAAAAAGGAAAGGAAAAA
 AACCAGAAGAAGGGAGAAACAGAGAAGAAGAGAGBAAGAA GA AAGGAAAAGAGGAAGGGGAGGGCCGGAAAAAGGGAAGAAAGG A G A G G G A A G G A G G A G A A A G G A A G G A A G G A G G A G A A G G A G G A $G$ AAAAAGAAAAAGGGACAAAGAAGGGAGGGGAAGGAAGGGGGA G GAGGAAAAAGAAAAAACGGGAAGACGAAGAGGA GAAAGAGG GACAAGAGCAGGAAAGCAAAAAGAGGGAGGGGAGGAAAAAAA $G G C C G G A G A A A A A A G G A G A G G A A G G A A A G G G G G A G G A A G A A G$ A A A A G A A G A A G A G A G G CACAGGGGACGGAAAGAA GAGGGGGG G G G G A A A A A G G A A G GAA A A A G G G G G A A G GAGA GAAA G GAAA $A$
 AAAGAGCCAAGGGGAAAAGGCCAGAAAAAAAGAGAGAACACC

 A A G G G G A A A A A A A A A A A G G G G G A A C C GAAAAAAAA G G G G G G C C GAGGAAAAAAAGAACCAGAGCCAACCGAGGGGGAAAGGGGGG AAAGAAGAGGAAGGCAAAAAAACAAGCGGGGGAAAGGGAAGA A G A A A A G A A A A TAA $A \operatorname{G} G \mathrm{GA} \mathrm{A} G A A A A A A G G G A A G G A A G G A C A A A G$
 G G G G G A A GCC GACCGGAAACGGCCGGGGAAGGAAAAAAAA G G G G G G A G T TAAAAACGGGGAACCAAAAACGGGGCCGGAGGGCC

A G G GAA A A A GCAGGGGAAAAAAGGAAGAAGCAAGAGCCAGAA G GAGAACCAAAAAAAAAGGAACAAAACAACAAGAGGCAGAGA $A G A A G G G G A C A G A A G G A A A A G G G G G A A G A G G G A A A A A A G G A G$ GAGGAGGGGGGAGGAAAAGGGGAGGGAACCAGGACACCGGGA AA GAAA A A A A G GAAAGAGGAAAGGAAAAAGAGGGGGGGAGGA GAAAAAGGAGACGGGAGGGAAAGAGGGGGGAACCGAGAGGCC GAGGCCGGAGGAGGACGAGGCCACGGGGGAGGGGAGAGGGGG GGAAACAGACGAAAAGAGGGAGGGAGAAGAGAACACAAAACC G G A G A G A G G G G G G G G G G G A A G G A G G G C C A A A A A A A A G G G G C A AAAGGAGGAAGGGGACGAGGAAAAGGGAAAAAAAGGGGGGCC A A A A A A A A G G G A A G G G G A A GAA $A \operatorname{GAA} A G A G A G G G G A G A G A G A$
 A A GAA $A \subset A C C A A A G G G A C A A G A A G G A A C G G A A G G G G A G A G A C$
 A A G G A G G G G G G G A A G G G G A G G G A A G G G G A G G G G G C A C C G A G G A A GATAGGAGTAAGGGCAGGGAAAAAAAGGGGAGGGGGAGAG A G G A A G A G A G G A A G A G G G G G A GAGAAAAGGCACA G GAAAGGCC AAAAAAGGAAACGGAAAAGGACAAAAGAAAGGGAAGGAACAA AAAAAAGGAAAGCCGAGAGAAGAAAAGAAGGAAAAAGCAAAC GAGGAAAAGGGGAAGGAAAAGGAAGGGGAAAAGAAAAAGGCC $A A C C C C C C A A G G G G A A G G A A G G C C G G G G G G G G A G A A G G A G A A$ G G G GAA $A \operatorname{GAA} \mathrm{~A}$ G G G A A G G A A A A A A A A G G G G C C G G G G C C G G G G G G G G G G G G A A A A C C G G A A A A A A G G G G A A A A A A G G G G A A A A G G A A A A A A A A A A A A A A GGCCCCAAGGGGAAAAAAGGAAAAAA G G A A A A G G A A A A A A G G A A A A G GAAAA $A$ A $\operatorname{AAACCGGCCGGGGGGTT}$ G GAAAAAAGGAAAAAAAAGGGGAAGGGGGGAACCGGC
C G G G G A A G G A A A A A A G G G G G G G GAAAAAA A G A A A A A C C G GA G GACCCCGAGGAAAAAGAACAAGGGGAAAAAAAGGGGGGGGGG
 AAGGAAAAAAAAAAGGAAAAAAAAGGAAGGCCGGAAAAAAGG AACCGGAAGGGGGGAAAAAAAAAAGGCCAAAACCAAGGCAAA A A A A G GAAAAGGAAGGAAGGAAGGGGGGGGACGAGAAGACAA A A GAA A A A A A GAGGAAAAGGGAGGGAAGAAGGAAGGCAGAAA T T G GAAG $A$ AAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G G A A G G G G A A A A A A A A C C G GCC G GAAGGAAGGGAAAAA G G G G G G G G A A A A A A G A G G G G G GAA A G A A G G C C G G A A G G G G A A G G G G G G A A G G A A G G G G G GCCGGAAAAAAGGCCGGAAGGGAAAAA G G G G G G G G A A A A G G G GAACCGGCCGGAAAAGGCCGGGGACAA G G G G A A G G G G G G A A G G A A C C A A A A G G G G G G G G A A G G A A A A C C
 CCGGCCCCAGAGAAGGAGCCGGGAGGAGAAAGAGAAAAAAGG C C G G A A C C G G G GAA $A C A A A A A A G G G G G G G A A C C G G G G G G G G C C$ A A G G G G G G A A A A G GAA $A \operatorname{GGG} \operatorname{GAAAAGGCCAAAAAAAAGGAAAA}$ C C G G A A A A G G A A A A G G G G G GAACCAACCGGAAGGGGGAAA G G A A G G G GAA $A \operatorname{GGGGGGAAGGCCGGCCGACAAGAAGAGGCAACAA}$ G GACGAGAGGGAAGGAAGAGGGAACCGGAACCAAGGGGAGCC CAAAACAGCAACCAGGAAGGAAAAAGGGGGCCAAGGGACCBG GAAAGGACGGCCCCCCAGAAGGGGGGAAGGAAAACAAAAAAA AAAAAAAGAGCCAAGGCCCAGGAAGGAAAGGGGGGAGGGGGG $A C G A G A G G G A A G G A A A G G A A A G A A G G G G A G C A G A G A G G A A A A$ G GAA A GAAAAAGGGAAAGAGCAGAGGGAAAGGAGGGGAAAAA CAATGGAGAAAAGGAAGGGGGGACTAAAGGAGACCCGGAGGAG A A C A A G G G C C A A G G G G G G A A G G A A G G A G A A G G G G A A G G G G G G GGACCCAAGAGGGGGGCAGAAACCGGAACCAAGGGGGGAGGA A G GAA A G GAGAGAAGGAGGAAAGGCAAGAGCACAAAAAAAAA ACGAGGAACCAAAAAGAAAGGAAGCCGGGGAAAAAAGGCCBA A GAA $A$ A A $\operatorname{A} A A A G G G G A G A A A A G A C C A A A A A C G A A G G A G A A A G G$ $G G G G A A A G G G A T A A A G G G G G G A A A A G A C G G A C G G G G G G A G A B$ AAGGGAAGACAGAGACAAGGTTGGAAGGGGAAAAAAAAGGGG

GAGACAAGGGACGAAAAAGGGGCCAAAACCCAGAGGAGGGGG GAGGAACAGGGGGGGAGACAAAGGAGAGGGGGGGAAAGAGAA AAAAAGAAAAGCCGAGAGAAAAGAGGAAAAGGGGAAGGAGAG GAGGCCGGGGCCGGAAAATAAAAAGGGAAGGGAGAAAAAAAA A GAAAAAAAGGAAAGGGGAACCAGGGGAAGAAAGGGGGGGGG AAGGAGGGAGCCCAGAGGAAAAGGAAAGAGCAGGGGAAGGAA A A A A A G G A G G A G GAAACCGGATGGACCAAGGGGAAGAAAA GA AC G A A A A A G G G A GAAACCAAAAAGCAAGGGGGAAAACA GGGG G G A A A A G G A G G G G G A G G A G G A A G A G G A G G G G G G G G A G G C C G G AAGACCGGGGAAGAAGAGAAAAGGGAAAGGAACAAACCCCCC G GAGGGAAAGGAGACCCAAAGAAAGGGAAAGGATAAGAGCTT A A G GAAAGAAAACCACAGAAAAGGCAAGTTAAAAAACCBGAA AA GAAAGGACAGAAAACCAAACAAACAAGGGGCAGAGGAGAA GA $A$ A $G G G G A G G A G A G A G G A A G G A G A A G G G A C A A A G A A G A A G G$ $C \subset G G A A G G A A G G A A A A G G A G C A A A G G C A A G G A A C A C G A G G G G$ $C C G G A G C C G A A A C C A A C C G G G G A A G G A A A A C C G A A G A G A G C C$ G G G G A A A G G G G G C A A G A G G A G A GAGGGAGAAGGAA G G G A G A G C CAA GCAGAGAGACATGGAGAAAAGGCCGAAAGGGAGAAAAA GAAGAGCAGAAAGGAAGGAAACGGGAGGGGATGAAAAGGGGG G G GACAGGAAAAGGGGGGCCCCAAAGAAGAGGAACCAA GAAA G GAAAACAGAGGCAAGAGGGTACCAAAAGGCCCCGAACAAAA AAACAAGGAAAGAACCAAAGGGAAGGACGGACAAGAGACACC AAAACCGAAACCGAGCAAGGAAAAGGAAGGAAGAGGGGGGCG A A A A G GAGGACAGACAGGGAGGACGCCAAGAAAAGAAAGGCA
 ACGAGGGGGAGGGAGGCAGGAGGAGAAGAAGAGGAGAAACAC GACGTAAAGGACGGGGGAGGGGAGGGAGGAGGAAAGGGGGGG G GAGAGAAAACAGGAAAGGGAAGGAAGAGGGGGGGGAAABAA C C G GCAAACAAGAGGAGAGAGGGGGGAAGGCAAGGAGGAGAA G GAACAAGAAAGGGGGGGGGGAAGCAGGTTGGAGCCGGAGAA A A G G G G G G A A G G A T A A A G A A G G G A A G G G G G A C A A A G G G G A C A AAAGAAAAAAAAGAAAGAAGGAGGGGGGAAAAGGGAAAGAAA G G GAGGGGCCGAGGACGGAAGGGAGGAAGGGGCCGGAGAGAC C C G G GAA GCCAAAAAACAAAAAAAGAAAGACCGAGGAGGGGG A GAA A G G G A G G G G A G G A CAACCAGAGAAGGAGGAAAGAAG G G $A C C C G G A A A A A A G A A A A A C C G G G G A A G G G G A A A G A C A A G G A A$ GACCAGAAACAAGGAAAACCAACCGGAAAAGGAAAACCCCAC GAAGAAAACCAAGGGGAGGAAGGAACGAGAGGCCGAAAAGGA GAA A A A A A G G G G G G A A A G A A G G G G A G G G G A G G G G G G G G A A A A
 AAACAGGGGAAAGACCAAGGCAAGAAGAAGGGGGCCGGAGAG GAGGAGGAAACCAACCAGGAAAGGGGCCGGGGAAAGTACCGG G G G G G G A A G GA GAAA A A A G GAAAA A G G GAGGAAA G GAAACCC G G A G G A G G G G A A A A A G G G G G G A G G G G A GAACC G GAAC CA G G G C C G G C C A G A C A A GAC C G G G G G G C A GAGGC CAA G G G G G G A A A A A A G G A A A C A GAGAGAAAACCGGAAGGCCGGAAAAGAAGAAAA GACAAAAGGGGGAAGGCAGGAAGGGGGAAGAAGGGGAAGAAA G GAA A G G GCCAAGACCAGGGGGGAGAAACCAAAGGGGGEGAA G GAGGAAACGAGCCGGGGAAGGGGGGAGGGAGCCGGAGAACA G GAACAGAAAAAGGGGAGAGGGAAGAAGACAGGAGAAACAAA G GAC $\mathrm{C} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A \subset A G G A G A G G G G G G G G G A A G A A A G A G G G G G$ G G G GAGGAGACAGGACAAGGGAAAGGAAAAGAAATAGAAGAG $A G G A G G G G G G A G A G A G G A A G G A A G G G A A A A A G A A A A C A A G G G$ GA $A \operatorname{GAA} A G G G G G A G G A A G A A A G G A A G G A G G A A A A C C G A A A A G$ G G A A C C G G A A G GCC C A GAGGGGCCAGCCAGGGGGAAAAGGCC G G G GAAGGAACCGGGGAAAGAAAAAAGGCCAGGAAAAGAAAA AAAAGGAAAAGGAGAAAACCAAAAAGGGGACACAGAACAAAA G A GAGGAGAAAAGAGGAGCAAAAGGGAGAAAAAAGAACAGGG GAAAACAGAGGGCCATGGAATTCCAAAAGGGGAACGCAAGAC

A GCAAGGGGGGGGGAAAAGGATGGGAGGAAGAGGGGAGAACC A A A G G GAA A A G GAGGGGAAGCGGACACCGAAGAGGAAAAAGG G G G GAGGAAAAGAAAAACCCAAGGAAGGGGGGAGGGGAAAAA G G G GAGGGAGCCGCAAAAAAGGAAGAGGAGGAGGCAAAAGAC $C \subset C C A C A A G G A A A G A A G G C C C C A A G A G G G A G A A A C G G G A A G G$ A G G G A A A G A A C C A G C C C C G A G G A G G A A A A A G G G A G A G G A G G G GAA $A$ A A GAGGA ATTAGAAAAGAAGCCGGAACAAAGGGGCCGG AAAGCAAAAGAGAAGGCCCCGAACGGGAGGAGGGAAAAACCC G G T T A T A G A A A A G G A G G A A G G C G G A A G G G G C A A A C C A G A A G A C C G G GAGACCGAAGAAAAGGGGAAAACCGGAACCAAAAAACA A A G G A GAAAGGGGGAAGGAGGGAAAAAAGGAACCGAGAAAAA GAAGCAAAGGCCGAAAGGGGAAGGGGGGAGAACCAGAAGAGB A A A G A A A ACCGAGGGGACCAAAGAGGAGGACAAAAGAGAAGG $A G G G G A G A A G T A A G G G A G G G A A A A A A G G G A G G A A G G A A G G G A$ G G G GAGAGAGGGCCAGAGAAAGAGAGTAGAAAAACCGGAGGA G GAAAGAAACACGGGAGGGAAAGGGGGGGGAGGGAAAAGAGG GAAAGAAGGGGACCGGAGAGCACAAGGAGGAAGGGACAAAAG A G G G G G G G G G A G G A A A G GAAAACC A A GAGGGAGGGAAAAA G G GAACAACCGAAAGAGGGGGAAGAGAGAAGAAACCGGGGAAAG G GAGGGGGGGAAGAAAGAAGGAGGGAAAAAACGGGAGAAGAG GGCCAGAAGGAGGGGGAGATAAGCGGGGACGAGGACAGGAAA GAAAAAAAAAGAGGGGGGAAAAAGGGGGGAACAGCCAAGGAA G GAGAAAAAAGGAAAAAAGGGGGGAAGAAGAGAGGAGAAAAG A G A A A GA $A \operatorname{GG} A C G A G G G A A G A A A A G G A G G G A A A G G A G A A A G G$ A G G G A G G G A A C A G A G G A A A GA $\mathcal{A} G G G G G G A A G G A A A A C C A C B A$ GACCGGAAGGCCCCGGAAGAAACCAAAGAAGAGAGGG
GGGCCAAGAGGGGAAGAGGACCAAAAAAACCAGCACAGGAC G GAA A A CAAAACGGGGAAAGCCGGAAGAGGAAAGGAGAGGAC CAGGAGGGAGAAGGAGGGGGAAAGAAAGGAGGGGAGGAGGAA CAGGGGAAAGAAAAAGATGAAAAGGGCCGGGGGGGAAAAGGA $A G C A G G G G G A A A C C G G A A A A G G A A A A C A G G G A G A C A A G A T A G$ G G GAGGGGAAGGAACCAAAAAAGGCCAAAAAAGAGGAGAAGA A G G GAGAAAAAAAAAGGGAAGAGAGGGGGGAGCCGGAAAAAG A A G G G G G G A A A A G G G G A A G G A A G G G G G G G G G G A A A A G G C C C C
 G GAA $\operatorname{G} A A A C A A G A G G G G G A A A G A A A A C A G A A A C C A A G G B G A A$ AACAGCGGGAGGAGAAAAGGAAGGGGCCAAGGAGAGAGAAAA GAAAAGAAAAGGAAAAAAGGCCGGAAGAAAAAGGGGACAAAA
 GAAAGGGACCAAGGGGGGGGTTGACGAAGGCCAAGACAAAGB A G G GAGGGGGAGAGCAGAGGGGAAGGGAGGGAAAAAACAAAA
 $A C C C A G A G G G G G A C A G A G G A G G A A G G G G A A A G G A A A A A A C A G$ A CA $\operatorname{A} A A A C A G A G A G A A A A G G G G A A A A G G G G G G G G G G A A T T A A$
 A A A A A A G G A A A A A A G G G GAAAAAACCAAAAAAAA G GAAAGGGG $G G A A G G A A A A A A G G A A C C A A G G A A A A A A G G G G G G G G A A A A G A$ AAGGGAAGGGACGGGAATGAGAAAAAAAGGGACCGGCCGGAA AAAAAAAAAAGGCCAAGGGGAAAACCAAGGGGAAGGAAGAAA A A A A C C G G G G A A C C G G A A A A G GCCCCGGAAGGCCCCGGGGAA

 C C G G A A A A G G G G G G A A G G C C G G A A A A C C C C G G G G A A G G G G G G $C \subset C \subset G G G G C C C C A A C C G G A A A A A A G G G G G G A A G G G G A A A A G G$ G GAACCGGGGGGGGAAGGCCGGAAAAGGGGAAAAGGGAAAGA A A A A G G G G G GAAC CAA $A \operatorname{AGAACCGGAAAAAAGGAAAAGGGGAA}$ G G A A A A $\mathcal{A} G G G G G G G G A G G G G A A T T A G A A G G A G G G A A A A C C C G$ A G GAA A G A A GAGGGACAGGGGGGGGGCCCACCAAGAAAAAGG AACAAGGGGGAGAAGGAAAAAAGGGGAAAAAGAGGGGAGGTT

A A G G A C A G A A G G G G G G G G G G A A A GCAGGGGACAAGAGAGAAA A G G G G A A A A A G GAA A A A G G G GAAAA A A A G G GAGGAA GA GAAA $A A C C C C G A G G A G A G A A A A A C C C A A G G C C G A G G T T A A G A G G G G$ G GCCGGGAGGAAAAAAAAAAGACCAAGGGGGGAAGGGAAAAG A GACAGGGACAAAAGAAAAGAGAGCCGGAAAGAAAAAAGAAG A G G GAGAGGGCAGCGAGAAAAGAACGAGGGGGCAGGAGGGGA G G G A A G G G A G G G G A GAAGCAGGGAGGAACACCGGACAGAGBA GAGAGAGAAAGAGGCAAGACCAGAGGAAAAAGGAGGGGAGAC $A G C A A A A C A G A G A G A A G A G G G G C C G G G G G A A G G G G A G G A G G G$ G GAGACGGGGAGAAAGGGGGAAGGGGAAAAAAGGAAGGAGAA A G G GA GAACCAAAAAAAAAAAGAGGGCCAACGGGGGGGAGAG A G G GA $\operatorname{A} A A A A G A A G G A G G C C A A G G G A A G A A A G A A G A C A A A A A$ G G G GAA A ACCCCAAGAAAAGAGAACCGGACGGAAGAAGAAGA GAGGGAGGAAAAAAAAACGAACGGGAGAGGGGGGAGGGAAAA GAGGAAGAGGCAGGAGAGAGGGGGCAGGAATTGAAAGAACAG A GAGAAGGAAAAGGGAACGAGAGGAAGGAGGGAGGGCCAGAC GAAGACGAAAGGGAGGGAAAGGGGGGCAGGGACAAGGAAAAG G GCCAAAGAGAGAAAGGGGAGGGGACGGGGCCGGAAAAGAAA G G G G G A A C G A G GAGGACAAGGGGGAAGAAAAG
$11032000-9 \mathrm{G}$ ( 0 G G G G C C G G A G G G G G A A G G A G G A A A A A G G G G $C$ A A A A GAACCCCCCGAGGAGAAAAGGAAGGAAAGCCAAAAGAAA
 G GCCAAGGAAGGGGAAGAAGGGAGAGACGGAGAAAGAAGGAA A A A A GAAAGGAAAAACAGAGCCGGAGGAGAAAAAGGGAAACA AC GAACGGACAAGGAAAAGGAAAAGGAAAGAGACGGACAAAA
 G G G G G G G GAACCAGGAAAAAAGAACCAGGGGGCAGGCAAGAA A A A A G A A A A G A GAAAAGGAAGGGGGGCCAACCAGGGGGAGAA A A A A A A A ACCAAAAAAGGAAAAAAGGGGCCAACCAAAAAAGB GAGGGAACAGCACCCCGGGGAAGGGGAAGGAAAAGGTTAAAA A A G G G G A A G G A A C C G G G G A A GAGACATTCCGGAGACGGAGAA G GAGCAAGGAGGAAAACAAAAAGAAAGGAGAAGAACGGAAGA G GAA A GAA $A \operatorname{GA} A A A G G C A G A G G G G C C G G A G G G A A A A C A A G A A$ GA GAAC GAACAGACGGCAGGAAAAAAGGAAAAAAGGGGGGGG G G A A G A G A A A A A C C A A A A G G G G G G G G C C G G GAGGAAAAAAA $A$ G GAGGACAAGAAGAGGAGAGGACCCAGGAAAAGAAGAAAAGA AAAAAGGGCACCCCGGAAGGGGGGAAGGAAGGCCGGAAAAAA A A A A G GCC G G A A G G G GCCAAGGGGGGGGCCGGTTGGGGAAGA G G A A A A C C A A A A A A A A A A G G A A G G A A T TAAC CAAAAAGGGGGG C CAAAAGGAAAACCCCAAGGAAGGAACCGGGGAAGGGGCCGG AAAAGGCCGGAAAAAAGGAAAAGGAAACGGAGAACAGAAAAA G G A A G G A A A A G G G G C G A A A A G G G G A A G G A A G A G G A GAA G G C C A A G GAAGAGGGGGGCCAAGAGGCACCGGGGTTAAAAAAGGAA C CAAAAAAAGAGGAGGGGGGACAGGGAAGGAAAGAAAAAAAC G G G G A A A G T T C A A A G G G G G G C A A A A C GAGAAAAACC A A GA G G A A G G G A A G GAGACCGGGAAAGGGGCCGGAAAACCAAGAAAAG GAAAGGAGGAACGAAAGAAAACGGACAGAGAAGGAAGGAGAA G GAGAGAGAAGGGGGAACGGCACCCAAGAAGAGAAGGAAGAA AACCGGCCCCAAAAAAAAAGAAGGAAACAAGACCGGGGGGGG A A A A A A G G A A A A C C GAGGAGAAGGGAAAAGAAA GAGAGGGCA G G G G G A A A A GCCGAAAAAAGAAAGGGGGAAAAGGACAAAAAG A A GAGACAGAAAGGGGGATAAAGGAGGGCCAAGGGAAAAAAA G G G A A A A G A G T A G G A G A A G G G G G G CAA T G G C A A A A GAA G G C C AAAGGGAAAAAAGAAAGGGGAAAGCAGAGGTAGGAGAGGAGA A A A A A A G GCCAAGGGGGGAAAAAACCGGGGAAAAACAGGGGG AACGAGACAGCCAAGGGGCCAAAGCAAGAAGGCCGGCAAAAA AAACACGGAAGAAAAGAGAAAGAACAAGAAGGGGGAAAAA G G $A$
 $G A T A A A G G G A A G A G G G G G A A G G G G A G G G C A A G G G A A G G G G G G$

G G G G G GAA A GAAAAAAGGAAAAAAGGAAACGGGGGGGAAAAG $A G A A G G G G A G G G G G A A C C G G G G A G A A A G G A G G C A A A A A C C A A$ $G G A A A A A G A G G C A G G G A C G A G A A A A G G G A G G G G G A A G G A G A A$ AGCCCAAGAAGGAACCCAGGAGGGAGACAAGGGGGGGGAAAA GAACAGAGAGAGAAGAGGAAAACCAAGGGGCCCCGAGAAAGAA A A A A A GATCAGAGGAACCGGGGAACCAAAAAAGGCCAGAAGA G G G A G G A G G G G GAAAA $A \operatorname{A} G \mathrm{G}$ GAAAAAACAGGGGAAAGACCAGGG AGGGGGGGAGGAAAGGAGAACAGAGGACGACCGAACAAAAAA A A A A A A G A A G GCGAGAGAAGGGGAGGGAAAAAACAAAAAGAA G GAAAAGGAGAGGGACGAGGAGGGAGAAGGGAAGCCCCAGAAA G GAAAAAGAACCGGAAAGAAACGGGGGGAAGGACAGAGAGGG G GCAA GACGAAGAAGAAGGAAAAAGAAAAAGGGAGAACBGGA A G G G G A A A CAAACCAACCAGGGGGCCCCAAAAGGCCAAGAGG AA G G GAGAGACCAGCCGAAAAAAACACAGAGGAACCAAAA G G A A G GAA $A \operatorname{GAAA} A G G G A G A C \subset A A A G G G A A G G A A A A G G G A C C G G$ G GAACAAAAACCAAGGAACAAAGGACCCGGCCGAGGAGAGAG GAGAAAAAAAAAAGCAAGGGCCAGAAAGGGAAGAGAAAGGGG AAAGAGCCAACCCCGGAAGGAGGAAAAGGAAGGAAAGAAAGG $G G A A A A G A A A G G A A G G A A A A C C G G A A G G A G A A A A G G C C G G G A$ G GAACCGGAAAACAGAGGAGGGAAGGGGGGGGCCAGGGACGG GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAAGAG ACGAGGAGGGAAAACAGAACAGAGGAACGGGGAAGGGGGGGG GAGAGAGGAAAGGAAGCGTTGGATGAAGAAAAAAAAAACCAG GAAGAGGAGGGGAAAAAAAGGGAGAACCAAGGAAAAAAAGAG A A A A C C A A G G G G G A G G A GACCAGGAAGGGGCCGGAGAGAAA G A A A A G G G G T T A A A A G G A A A A G G G G G G G G G G A A A A A A G G A A G G AAAGGAGGCCAACCAAGAAAAAAGGGCCGGGGAAAAGGAACC G GCAAAAAGGAAAAAGACAGCAGAGAGGAAAAGGGAGGCCBA G G A A A A G G G G G GAA $A \operatorname{G} \operatorname{A} A A A G A G G G G G A A C C A A A G G A A G A G A G$ CCAAAAGGAAGGGGAAAAGACCAAAAAAAGAAAACCAGGGGA A G G G A A G G G G G G A A A A A A A A A A C C G A GA G G G G A A GA G G A G C A G G G G G G G G A A A A A A G G G G G A C C G G G GAA G G GA G G C C C C G G G G C G GAGAAGAAGAAGGAGGAAAAGGCCAAAAAAGGGGGAAAGG A A A A G G G G A G G A A A A G G GCC G G A G G G A A A A C C A A C C A A G G G G G A T T G G G G A A G G G G A C G G A A A A A A $\mathcal{A} G G G G G A A G G G G G G G G G G$ A G A A A A A G A A A G G A A G A A A GGGGGAAAACA AA GGGAGGAGAT A G G G A GA G A A A G G A GAAAA $A \operatorname{AGGAAAAAACCGGGGGAAGAAAA}$ G G G G G GAA A G G GCCGGGGAAGGAAAAGGAACCAACAAA GGGG G G A A G G G G G G A A A A A A A G G A G A A G G G G G G G G GAAAAA A G G G G C C $A G G G C C A G G G G A A A A A G G A G G A G G A A G G G G A A A G A A G A A G A G$ A GAAGGGGGGAAAAGGACAACCAAGGAAAAGAAGAGGGACAA
 A A G G G G G G A A G G G G A A G GAAAAAAAA AAAGGGGGGGGAAAGAA G G G G C A A G A A A A G G G G A C A A G G G A G G G A GAGGGGAAA G G G T T A A A GCC C A G G T T G G G GCC G G A A G A G G A A G G A A G A A A G G G G A G G G GAGGAGAGAGAAGACAGGACAAAAGAGGAAAAAGAAAAAG T TAAAACCGGGGCATTGGAAGGCCAGGGGACGGGCCAACAGG G GAGAGAAGAAAGGAACCGGAAAAGGGAGAGAGAAGGAGACC AACCAAAAGAGAAGAAAAGGAAAGGAAACCAATTGGGGAGAA
 AACCGGACAAGGGAGGGACAGGAAGGCCAACCAACAAATAAG AA $A G G G A A A A G G A A A A T T C C G A G G A A A A G A C A A G A A A A A G A A$ G G A A A A A A A A A G GAAAC CACAAA G G GAC G GAA TACA G G G G G G A A A C G GAA A G G G G GAGGGGGAACAGGGGGGGGGGACAAGAGA G G G G A A G A A A GACAGGCCGAAGAAGGAGAGAGGACAAAGGCC AACCAAGGGGAGCCCCGGAGGGAAAAAAAAGGGGAAAAGGAA GACCCAGGAGAGGAAGATACGAGAAGACACCAAGCAAGACGG A G G GCCC CAACC G GAAAAAAAAGGAACCCCAGGAA GAGAGAG AAGAAGAAAGGACCAGAAAGAAAGGAGGAAGAGGGGGAAAAA

A GAAGGGGAAAAAAAAAGGAACAGAGGGGGAGGAGGCAAACC
 G GAA A GAAAAAAGAGAAGGGAAAAGGAGAAGGCCGAACAAAA $A C C A A A G G A G G G C C G G G G G G A A C C G G G A A A G G G G G G G G G G A A$ G G G GAAAACCAGAAAAGGAAAAGGACGGCCGAAAGGCAAACC G G T A A G A A G G G G A A A A G G G GAAA A CA G CAAAACA A G G G A G G G G G GCCAAAGAAGGGGGAGGAGGGGAGGCCAGAAAAAACAAAAG AA $A G G G G G A G C A G A G G A A A G A C A G C C G G A C G G A A G G G G A G A A$ A A G G G A A G A GCCGGACAGCCAAAAAAGGCCAAAAAAGGGGCC ACGGGGGGAAGGAAGGGGAAACAGGGAGAACCAGGGAGAGAG G GAAAGAGAGAAGGCCCCAGAGAAGAAGAAGAGAAGGCAAAA A A A A A G A A A G G A A A G G G G G G A G C C T T A G G G G A G A G G A G G G G G A A AC G A A A A A A A CAAA G GAACAAACCCCCCGAGAGGCC G GAG C C A A G A G G G G G G A A G A A G G G G G G G G G G G C C A G G G G G A G A A C C C C G GAA A GAACCAAAAGGAAAAGAGAAGGAACGAAAGAAGGA
 A A G G G G G G A A G GAA $A \operatorname{GGG} G A A C C A G A G G A A G G A A G G G G C A A G G$
 AGCCCCGAGAAAGAGAAAAGAACCGGGAACCCAGG
ATTGGAAAAAAGGAAGAAACAGAAAAAGGGGAAGGAAAAA G $A$ ACAAAGGAGGCCGGGGGGGAAGGGGGGAAGACCAAAGGAACA
 A G G G A A G A G GCCGGGGCCGGAAGGAAAAAAGGAAAACCGGGG G G G G G GA GAGAGAGAAGGAGCCAGACAGCACCAGAGGGACAA G GAGGGAAAAGGAAGAAAAGGAAGAGAAAAGACAGBCAGABG $A C A G G A G G A A G G A G A A G G A G A A A A G G G G G G G G G G G G G A G G G G$ $G G C C A A A G G G A A C C T T A A G G A T G G G A T T A A A A G G A A A A A A G G$ G G G G G G G G G G G G G G A A G G G G A A A G G A C A A G A A G G C C G G A G G G A A GAGGGGAGGGCCCCGGAAGGGAGAGGAAGGAGGACCAGAA CAAGGGAAACGGGGAAGGCCGGAGAAAAGGAACAGGGGCCGG G A G G A A A A A A G G A G G G G A C A A G A A G A A A G G G G G G G G A A C C A G A GACGAAGAAAAGGGGAAGGAAGGAAAAAAGGGGGGGGABAA AAAAGGGGGGAAGGACGGACAGAGAAAGAGCCAGAGAAGAAA
 A A G GCCTTCCCCAAAAGGAAGGGGGACCGAAGGGTTAAGGGG1 GAGGAAAAAAAAAGGAAAAAGGGAGGAAAAGGGGAAAAAGAA A A A A A A G GCAGGGAAAGGCCGGAACCAAGGAAAAAAAACAAA
 G G A G A G G G G G A C G G A G G G G G A G A G C C C C G G GA G A GA G G A A A A
 G G G GAAAAAAGAGAGAGGCGCCGAAGGAAAAGGAAAGAAGAG A A A G A G G G A A A A C A G A G A G G A G G A G G A A A A A G G G A A A A C C G G A GAAACAAAGAAAAAGAAAGAAAAAGGGGGAAGGGGGGGAGG A GAGAAAGCGACAACCGAGGGAACCACAAGAACCCCGGACGG A A A A A GA A G A G G G G A G A G A A G G C A A A G A A A G G A A G A A G G A A G

 AAAACCAAAAGGAAAAAAACAAGGGGGGGGAAGGGGAGGGGG ACAA A GAA $A \subset A A G G G G G A A G A G G A G A A A A A A A A A G A G G G G G A$ A GAA A GCCAA G GCCCCGGGGAGGGGAGAAGGGAAGGGGCCCC
 CAAG $A \operatorname{G} \operatorname{A} A A G G A G A G A A G G G G G G G G G G A C G G A A A A A G A G G G A G$ AAGGGGAACCTTGGCCCCGGAACCAAAAAAAAAGGAAATTGG G GAAGGGAAGAGGAAAAGGGGGAGAAAAGGGGCCGGGGGGGG AAAACCGGAGGGAGGGAAGGAAAAAAAAGGGAAAGAAAAGGG A G G G G G G G A G A G G G G G T T G A A G A A G G G G G A G G A A GAACAAA A A A GAG G A A A A A A A A A A GAGGACGCCCGGAAGGAAAAGGAGAA $C C G G G G A A A T A G A G A A C C G G A A A G C C C C G A G A G G C C G G A A G A$ G G GAGACCAAAGGAGACAGGAAAAGAGATAAAAAAAGGCAAA

C C G GAACCAACCAAAAAGCCAAGGGGACAGGGAGGAAAAGCA GAAGAAAAAAGGCCAAGAGAAGAACCACCCGGCCCCACAGCA $G G A A A A G A G G T T G A G G A G C C A G C A A A G G A A A A G G A A G G A G A A$ A A G GAA A A A G GAAGGGATGGAAGAAGCCAAGGAAAAAAGAAA GAGGAAGGAAGGAAAGGAAGAAAGCCGGAGGAAAGGGGAGAA C C A A A A G G G G G GAGAAGAACCCAACAAGCGAAGACAAAGGAG
 AA $A G A A A A A A G A G G G G G G G G A A G A A G G A A G G G G A G G G A A A G$ ACAGAAGGGAACACGGAAGAGGAAAAAAAAGGAGCCGAGGAG G GAGATGGAAGGAGGAAGGAGGGAGAAACGAGAAAAAAAACA AAAGCCACGGCAGGGGCCGGAAGGACGGAAGAGGGGCAAAAG AA $A G C C A A G G A A G G A G C A A A G G A A A A G A A A G G C A G G G A A A A G$ A A A C G G G G G G G G A A CAGGGGAAAAGGCCAAAGCCAAGAAAAA G G A A C C T T G G G G C C A G G G G G G G G A G G G G G G G A A G C A G A A G G G $A C G G G A A G A G G G G A A A G G T A A G G A A A A A G G G G A A G A G G G G A A$
 G GAGGGAGGAGGGAGGACGGGGAAGGGAGAAAGGGGCAAACA G GCCGGAAGGGAGAGGAAAAAGAGTTAAAGCCAAAAAAAAAA A GACAAGGAACCAAAGCAAAAGGGAGCCGAAGCCTTCCAGGA A G G G A A A A GACCACGGGGAAAAGGAAAGGAAAAGAAAGAGAT G G G GAAAGAGCAGGAACCGGAAAACCAAAAGGAAAAAAGGGG G GCCTTGGGAGGGGAAGGGGAAGGAGAGAAAAGGGGGGAAAA AAAGGGGGAGGAGACAGGGGGAAACCGGAGAAAGAGAAAGAC CACCAAGGGGGGAAGGGGAAGGGGGGGGAGGAGGAGGGAGAA A A C C G A G A ACAAAAAGAAAGAAGAAAAAAACCGGAAAAAACA CA $\operatorname{l}$ GAAAAAGAAGGAGGGGGAGAAAAAAAAAGAACCAAGAAA AACGAGTAGGAGGAAGAAGGAGAAAGCCAAAGGGGGAAAACC G G G GAAGGAACACATACCGGGGAAGGATCACCCCGAGAAAAC
 $G G A A G A G A C C A G C A C A G G G A A G A A A G A A G G A G G G A A A A G G G G$ G G G G G G A A G G A A A G GAA A CAAAAAAAAAGGGAGAAGAG GAAA G GAAAGGGGAGGGGGAAGGAAGGGGGGGGAAGGGGAAGAAAAA
 G GAATTGGAGGGAAGGAAGAAAGAGAAGACAAAAGGGGCCAA AAAGCACCAACAGAATGAAAAAATTACCAGAAAAGBABAAGG A A A A A A A G G G A A C C G G A A A C G G G G CCA G TACC G G A A CA G G A G G GAAAAAAGAGGAAACGAAAAACCAAGAAAAAGGAAGAAGGG A GAACCGGAAAAAAAGGGAAAAAAGAAAAGAGGGGGAACCBG G GAGCGAAAAAGAACCAAGGGGGGGGGGAAAAGGGAAAAAAG A A A A G G G G G G G G A A G G A A G G A A C C A A G G G GAAAA A G T T A A G G $C \subset A A C C A A A A A A A A A A G G A A A A G G G G A A A A A A A A C C G G G G G G$ G G A A A A A A G G G G A A A A G G A A A A G G G G C C A A G G A A A A A A T T A A $C \subset A A C C G G G G A A A A A A G G A A G G G A A A G G A A A A G G A A G A G G A A$ $A G C C A A G G A A G G G G A G G C A A G G A A A A C C A G G G G G A A A C G G G G$ $A G A A C C G G G A G G A A A A A G A G G G G A A A G G G A G G G G A A G G G G G G$ G G G G G G A G A A G G T A A A G GAA A G G GAAAA A C CAA G G G G C C G G T T G G A G G GACGGGGAACCAACCAAAAAAAAAACCCCTAAGAATT GAGAAAAGCAGACAAGGAAGAGAGCACAGAAAGAAGAGGGAG G GAGAAAGGAAGGAAAAACCGAAAGGAAGGAAAGACGGAAAA
 G G G GCCAAGGATGGAAAAAAGACCAGAGAGGGCAGGAAGACA A A C A A A G G G G G G G GAAAA A G A A A A ACCAACCGGTTAGAAAGAA G G GAAAAAGGAACCAAAAAGGGGGAAAAAAGGAGAAGGGAAA G G G A G G G G C C G G G G GAGGGAGACCACACAAAATTGEAA G GAA A A G GAAAAGGAAAGAGGAGCAGAGGGAGAGAGCCGGGAAAAG A GCACAGGGAGGAGAGAAAGCCCAGGGAGAGGAGGGAAACAA GAGGAGACAAAAAGCACCAAAACCGGGGCCGGACAAGACAAG A GCC G G G G G G G A G GAAAAAACAAGAGAGGGGGGGAAA GAA G G G GAAGGGGGACGAGCCAGGAAACCAGTAGAACGGACGGGAGA

G GAAGAAAAAGGAGAAAAAAAAAGCAAAGAAAGAAAAAAGAG A A A A A A G GCC G G A G GAGGGAAGGGGGAAGGCCAGGGGAAAAA A A G GCCAAAAGAGGACAAAGCCAGGACGGGGGGGAAAAGAAA G G G GAGAGGCGGGGAGAAAAAAGGGACCAAAAGGGGCCBAAA GAGGAAAATTAAGAAACCGGGAAATAGGGAAGCAAAAAGAAA A A A A A A C C C C G A CAAA $A \operatorname{AGGGAGGAGAAGGAACCCGGAGGGAA}$ G GCCAAAGGACCACAGAAGGCCGGCAAAGAGGCCAAAAGGAC A GAAAAAAGGCCGGCCAAAAGGCCGGAAGGGGGAGAGGAGAA G G A G G A A G C C A A G G A A G G A A G A C A A A A A C CAA G GAAA A A C G G AGCCAGGGGGAAAAGAAGCCGGAGAAAGAACCAAACAACCGG A A A A G A G A G G G G G G C C G G A A A A A A G GAAGGGGAATTAAAAAA CCCCGGCCGGAAGAAACCCAGAGGAAAAAGGAAAAAAAAAAA A A A A T T G G A A A A G G A A A A A G G G G G A A A GAGCCGGCC G GAAAA G G G G G G G G G A C C G G A A A C A G C C G G T TA G G G G G C C A G A A G G A A ACGGGAGAAGAGAGGGGGAAAAAGCCGGAGAAGGAAAAAAAA GAGAAGGAATCAAAGAAAGAAGGGAGAAAAAATTGAAACCGG A A G A A A A A A A GAGGAGACCCGGATAGAACACAAAGGGGCAAA A G G A G GC G G GCGCCGGAAGGGGGGGGGAAAGGAAACAAGAAT GAGAAGAAAAAGGAAGAAAAAGGGAAAGAAATGGGAA
A A A G G G A A A GCGGAGAAGAGGAGGGGGAACCGGGGGAGCGA GGACGAAGCCAACCGAAGGGCCAGAGAAAAAAAAGGGGAAGG G G GAGGGGAAACGGAGGAAAGGAAAGAAAAAAGGAAAAAAGG G GCCCCGGGGAAAAAGCCGGGGCCAAAAGGCCGGGAAATTGG A ACCAAGGCCAAAAACAACACCAAGGGGAAGGAGAACCAATT A A A A A A A A A A A G A A G A A G A A CAAAAAGAGGGGGGGGAGAA G G A GAA $A$ A $A G G A G A G G C A G G A A A A G A A G G G G G A A G A A A G A G G G A$ G GCCAAGGGGGGGAAACCGGGGCCAAAAGGGGAAGGGGAGGA GACAGGAAAAGGAAAGCAAGGAGGACAGAGAGTTAAGAAAGG A G G GCGAAGGGAAAAAAAGGAAAAGGGGGGGGAAAAAAAGGG G GAACCGGCAAGGGGGAAAGACAAGGAGAGAAGAGGGGAGAG
 AA $A G G G A A G G G G C C A G G G C A G A A G A G A A A G G A A A A A A A A G A G$
 A A G G G G A A G G G G C C A A G G T A G A A G A G G A T A G G T T C C G G A C G G A G G G A A G G A C G G A A G G G G G A A G G G A A A A A GAG GAAA A G A GA C A G G A A G G G A A G A G A G G G A G A G A A G G G A C A A A A A A T TA G G G A A
 G G G GA A A A G G GAGACCGGAAGGCCGGAACCAGGAGAGAAAGAA A A GAGGCCGAGAACGAAAAAAAGGAAATCCAAGGAACAAAAC G GAGAGAACCAGGAGGGGCCAAGGGAGGGGAAGAAAAABACC T TAAA A $A$ A A A $\mathcal{A} A G G G G G G G G G A G G G A A G G A A C C A A A A A G A A A A$ AAACCCGACAGGGGGAGAAGAGCACAAAAAAAAGGACAAABA ACAAGGAAGAGGGGAAGCAAGGAAGGAGGGGGGAAAAGGGGA GAGAAAGGAGGAAGAACCAAGGGAACGGAGAGCCAGCCAGEG A A G G G GACAGCCAACCAAAAGAGGCCGGGGGGGGCACAAAGB C CAA G GCCAAAAGGAAAAAGCCAAAAGGAAAACCGGGGGGGA A A G A A GA $\operatorname{A} G \mathrm{G}$ GA A G G G A A A A G A A A G G G G A A A G G G G G G G G A G G G GAGGAAGGCCGACCGGGGAGGGAGAACCAAGGAGGAAAGGGC A G G GAAAGAGAAAAAGGAAAAAGGGGAGAAGAACCCCC G GAA
 C CAGAGGGGAGGAAAAAAAAGGAAAAGGGGAAAAAAAGGGGGG $G G C C A A G G A A G G G G G G G A A A G G A G A G G A A G A A G A G G A A A A A A$ A A G G G G A A A A A A A A A A A C C C A A G G G G G A G G A G A G A A A A A G C C AA $A G G G A A G G G G A A G A A A G G G G G G G A G G A G A G C A A A A G A A G A$ C CAA $A$ A A A GAGAGGCCGGAAAAAGAGCCGGGGAAAAAAAAGG GAAACCAGGGGGAAGAAAGGGGCCAAAAGGCCGGAAAAAGGG GAAAAAGGCCAGGGGGGAAGAGGGGGAGCCAGGAAGAAAAGG A G G G A A G G G G G A G G G G G G A A GAGAAAGAAAAAGGGGAAACAA AAGGAAGGAAGGCCAAACCCAGGAGAGGAAGGCCAAAAAAAA

G GAGGAACGGACGGGGGGGAAGACAGGAAGCCAGGAGGGAGA C C G G G GA G A G G A A A A A G G T T G G A A A A G GAAAAA A A CAA G G A A GAAAGGCCCCGGGAAAGGAAGGAGGGAAGGAACCGAAAAAAG A A G G G G G G GAGAGGGAGGAGAAGGAGAGAAAAAGAGAGAAAG A GAA A A A A G GAAAAGGGGAGAGGAAGAACCGGCCGAAAAGGG G G G G G G A A G G G G A C A G G G A G G G G G A A G G C C G G T T G G A A A A A A A A A A G GAA A GAA $A \operatorname{A} G \mathrm{G} G A A A A G G A A G A G G G A G A C A C C A A A A G G$ G G G G G G A A A A A A A A G G GAGGGGGAAGAGGGAGAGCCAACCCC GAGAAAAGAGAAAGCAGGAGGGAAAAAAGAAGAAAGGACCAG A A A A A A A A GAGAAAACAAAAGGAAGAAACAAAAAAAGAAAAG GAA A A A G G A G G G G G A G G G G G G G G G A G G G A A A G G G G G G G C C A A
 A A $\mathcal{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A A G G G G G G G G G G G G G A G A C G A A A A G A A G C G$ A A G GCCGGCCGGGGACGGAAGGGAGGAAGGAGGAAAAAGAAA G GAAAAACAAAGGGAAGAGACCAAGGAAAAGGGACAAGAGAC
 A GAGACGGGAAAAAAAAGAGGAGGAACAGGAAA GAGGGGGGA G G G G A A A A G GA GAGAA GAAAGAAAAGAAAAAAAAA G AAGGGCC $G G A G G G A C G G A A A G A A A C A A A A G G A A C C A A G G A A G G G G A G A A$ G G G G G G A A A A C C C C G G A A G GAAAA $A$ A $A$ AA G GCCTTAA G G C C A A G G G G A A C C A A G G A A A A A A A A G G G G A A G G G GAAAA A G G G A A G G A A A A G G G G A A G G A A A A G G G G A A G G G G G G G G G G G G G G G G G G G G A ATTAAAAGGGAACCAAAAGGAACCAAAAGGAAAAAAAAAA A A A A A A A A G G A A A A G G A A G G A A A A A A A A A A G GCC G GAA G G G G A A G G G G G G G G A A G G A A A A A A A A G G C CAA A G G GAAAAAA A A G A A G G G T TAGGAGAAAAAAAAAAAAAAAGGTTGACCAACCCCCC GAAAAGAAAGGGAGAGGGCCAAAGAAGAAGAAGGCCCCAAAAA ACAAAAGGGGAAGGAAAAGGAAGGAGAGAGAGGGGGAAAAAG G GAAGAAACCGGGAACGGAAAACCAAAAAGACACGCGACAAG A A A A A A A A A A A A A GGGACGAACAAAGAAGGGAGAGGAAAAAA $A G C C G G A A G G A G G A G C G G G G A A A A A G A A G A A A G G B A A A G G G G$ AGGAAAGGAGAAGAGAGAAAGGGAGGACCCGAAGAGAAGGAA G G G GAA $A \operatorname{GGGA} G A C A G A A A A A G A G C G A A A A G G A A C C G A G G G G$ A G G GAAAAAAGGACGAAAGAAAGAGACAAAAGCAAAAGAAAA A A A A A A G G A G G G A GAGGGAAAGAGAAAAAAAAAGCCAAGGAA
 A A G G G A A GCCAGAGGGGAGGCAAAGGGAGAGGAAGGCAAAGG
 A A C C A A A A G GAACCGGGGCCGGCCAAGGGGAAGGGGAAAAAA G GAGCCAACAACGGAAGGGGCAGGAAAAGACACCGAAGAGAG GAAAATGGAAGGGAAGAGGAAGAGGGGAGGGGGGCCCAAAAG G G C C A A G G G G A A A A G G G G G G A A A A G G G G A A A G A C G G A G G A C A A GCAGGAGGGGAAGGAAGGAGGAGGGGGGGAACCGGAAGAAA
 A A G G G GAA A G A A A A C CAAAAGGAAAAGGAAAGAAGAAAACTT GAATGGAAGGAAAAAAAGAAGAGAGAGGGGGGGGAGGGAAGA AA $A \operatorname{GA} A A G A G G G G A C A G A G A A G A A G G G G C C A G A A C C G G G G T T$ AAAGGGCAAACCCAAACCGGGGAGGAGACAGGAAAAGGGGCC A A A A A A A A A GAGAAGGCCCCAACCAAAAAGTAGGAAAGAGAA GACAAGAAGGAAAGCACAGGGGAATTAACCGAACGGGAACAG GAAAAAGGGGAAGGGGCAAGGGAGACGGGGGGGAAAACAGCC G G G G A G A G C A G G G A GA $A \operatorname{AGGGGGA} G G A G G G A G A T T G G G G A G A A$ G G A A A A A A G G G G A A GAGGAAAAGGAAAAAGGGGCCCGACAAA AAGGAGCAAAGGGGAAGGGAAAAAAAAAGGAACCGGAAAACC C CAACCAAGGAAAAAAAAAAGGGAGAGCAGAGAGAAAAAGGC $G G A C G G C A A A A C G G G G G G A A A A G G A A A A G A G G A G A A A A G G A G$
 A A G G A A G G G A A G G C G G A A A A A A A GATAAAAAAGAGCAA GAG G G AAGGGGAAGAGAAAAGCCGGGAAAGAGGAAAGCGGGAAAACC
$C C C A G C A G G A A G A G G G G G A A G G G G G G G G A C A A A A A A G A A A G G$ A G A G A A A G A A A A G A A A G GCAA G G A A GCCGGGGGGAA G GA G G G AACCCCCAAAGGAAGAGGAAAAAGGAGAAGAGGGGGCAAGAG A A G G A A G A A A A A A A A GAGGGGGAGAAAGAAACAA G A A A A A G G G G $C C G G A A G G C C G G A A G G A A A A A A A C A A G G A G G A C A G G A A G G G G$ T TAA $A$ A A A CAGAAAAAAAAAACGAAAGGGGGAGAAAA GAGAA C C GAGGAGAAGGAAAAATACACGGAGAGGGGGAAGGGGAGAA CAGAAAAAACAACCGGAAAACCAAGGAAGGAAGGGGGGAGAA C C C C A A G A A A A G C A G A T T G G G G A G A G A G G A GA G G A A G G G G G A GACAGAGACCGAAAGGAGGGGGAAGGCAGGGGGGGAGAAGAA AAAACCAAGGACAACAAAGGGGCCAGGGACAAGGACGAGAAA C CAA $A \operatorname{GAGGAAGCAAAGATAGAAAAGAAGAGGGAAGAGCAAA}$ A A A C C G A G A G G G G A G G G GACGGAGGGAGAAAAAAAGGA GA G G GAAAAGGAAGAGAGGAGAAGAAGCAAAAGGAAGAGAAAGAAG G GAA A A G G G GAGAAAAAAAGGGCCTTAAAAGGGAAGAAAAAA AA $A G G A G A G A A G A A A C A C G A G A C C A A A G A G G A G G A G G G A G A G$
 G G A A C C G A GAGGGGAAGGGGCCAAAACCGGCCCCAAAAAAAG GAGGGGAACCGGTTACGGCCAAGGGGGGGAGAAAAAG
A GAAAAACAGGAACCGGGGGGAAAAGGGGAAAGGGAGCAAG GAAGGAGAAGGACGAGAAGGAAAAGAAGAAAGGGAAAACCGG A A GAGGAAAGGGAAAAGAGAGAAGGGAAGGAAAAAAAAGAAA
 A A A G G A T T G A A A GA A $\mathcal{A} G G G G A A G A A A A G C C G G A G G G C A G G B A$ A A A A A A G G G G A A G G G G G G A G G G A C G A G G A G G G A A A G G G C C G G AAATAGGAAGGGAAAAAAAGAGAAGGAGAGAGCCGAAGACGA G GAGCCGGGGAAAAAGGGGGAAGGAAGGACCCAAAGGGAAAA G GACGGGAGGGAAAGGGGAGAAGGGGGGAAGGGGGGCCAGAA G GCAAGGAAGAAGGGGAAGGGGCAAGAAAACCCCGGAAGGAA A G GA $\operatorname{G} G A G G G A G A G G G A A A A A A G G A A A G G G G G G G G G G A A G A G$ G G A A G G C A G A A A G A G G A A G G A A A A A G A A A G A A A A G GAC G G A G GAGAAAACAGGAAGCAAGAAAGCAAGAAAGGGAGACGGGGGG C CA $A \operatorname{GA} A G G A A A G A G A G G A G A A G A G G G G A A A A A A G A G A A A G A$ $A C C C C C G G G G G G T T G G A A G G G G A A G G A G G A A G A G G G G G G G C C$ G G G G G GCAGGGGGGGGAAAGCCAGAAAACCAAGAGGAGAAAA A A A A A GAA A G A A G G C C G G A A A A G G G G G G G G G G A A A GAAAAA A A GCCCCGGAACAAGGAAGGGGGGGAACAGGGGCCGGAAGGGG A GAGAGAA $A \operatorname{A} G A A G G G G A A A A A A C C A A G G G G A A G G G G G G A A G G$ ACGGAAGGAACCAGGATTAAGAGGGGAGACGGTAGGAAGGGG A GAGGAAACCCCAAGGAAGGAAGGGGAGAGGGAGCCAAGGGG $A C C C G G A A G A A C G G G A G G G G A C G G G G A A A A A G G G G G G G C C C C$ G G G G G G G G C C A A C C G G C A G A G G G G A A A C A G A A G G G G G G A G G G CAAAGGGGAAAAGAGGGAAGAGAGGAAGACGAGAGGACCCGG A A G G G GAACCCCGGGGGGAAAAGAGGAGAAGGAAAGAGAGAA
 A G G G G G G A A C G G A G A G C C G GA G G G A G A A A C G G G G C C G G A G G A G G G G A A A A G G G GC C G G A A G G C C A A A G G G G G G G A G G A G G G G G G G G G G G G G A A A G A G G A A G A A A G A G G G G G G A A G G A $C A G G G G G G G$ A GAA $\operatorname{A} A A C G G A A G A A C G A G A G A G A C C A G A A G A G A G G A G G G G G$ $A C A A G A A G A G A A C C A A G A A G A G G G G A G A A A G G A G A G G G A G A A$ G GAGAGAGTTAGAAACAAGGGGAACCAAAAGGGGCAGACCAG $G G A A A G G G G G A A G G A A A A A A A G A A G G C A G G G G T A A A G G G G G G$ G G G G G G A A G G G G A A G G C C A G A A G G G G G G C A G G G A A C C C A G A G G GAAGAACGGCAGGGAAGGGAAGGAAAAGGGGAAAAAGGAAA G GAA A A G G A A A A A A GAGGGGGAAGAAGGAAAAAAGAAAAGTT $G G C C A A A A G G A A G G A A A A G G G G G G A A A A A G G G G A A A A C A A G C$ A GAGGGAAAAAAAGGGAGCCAAGGCCAAAAAAAGAGAACAAA GAACGGGGGGAGAAAAGGCAGGCAAAGAAGAAAAGGCCAAAT $A C G G G G C A G G G G A A A A G G G A A A G G G G G A G G A A A A C C G G A G A A$

G G G GCCCCAAGGCCGAGAGGAAAGGCGGCCGGGAAAGGTACC A GAGAAAGAAAGGGAACCGGAGAAAACGCCCCAACCAAAGAC GAGAGGCCAAAGGGGGGGGGAAGGGGCCCCAAAAAAGGGGGG CCAGAAAAAAGGAAAAAAGAGGGGCCGAGGAAAGAAGAAGAA A A A A GAAACAAAGGCGGAGAAAAGGAGACCGGAAAAGGGGGG GAAGCAGGCCAAAACCAAAAACAACCAAAAAAGGGGGAAAAG G GAGAGCAACAAAAGGAAAAGAGAGACCAAGGAGAGAGCCCC GGACGGAAAAAGGAAAAAAAGGCCAGGGAAAAAAAAAACAAA GAGGAAAGGACCGGCCCCAGAAGGGGAGAGGGAGAAACBAAG ACGAGGGAGGCCACGACCCGGAAAAAGGAAAACCAAAGAAAA A A A A A A A A A G GAA $A \operatorname{Ag} \operatorname{A} A C \subset C \subset A A A G A G G A G G G G G G A G A A A G G$ A G G G G G G G A G A G G G G A G A A TAGGGGACCAAAAAAGGAAGACC GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGAGCCACAAAA $C C G G A A G G A A A A G G G G A A A G A G C G G G G G A A A A A A C A G A C C G G$ G GAAAAAGGGGAAGGGAAGGGGGGAGGGCCAGAAGAGAGAAA G G G G G G G G G G A A A A A G G G G GAAAACCGGGGCCGGAACAAAAA
 GAAGAAGGAGGGCCAGAGGGAAGAGGAACCAAGGGGCCGGGG A GCCAAAAAAAGAGACGAAGGGAATTAACCAAAAAAGGCCGG AAAAAGCGCAGGAACACCACAAAAAAGGAGAGGGAAAAACAC $C \subset G A C A A A G G A A G A G G A A G G G G A A A A G G G G A G G G A A C A A A A C$ CAGGCCGGAAGGCCGGAGACAAGGAAGGCCGGAAAAGGAAGG AAGGCCGGAACCGGGGAAAACCGGGGAGCCAGAAGACCAAAA A A A A A A $\mathcal{A} G G G A G G G G G G G A A A A G G A A A G G A A A A G T T C A A A G A$ G G G GACAACCAAGAGGAAAAGAGGAGAAAAAGGGAAGGAGAC A G GAGAAGGAAAAAAGAAACGGACAGAGGATTAAGGAAAGCC A G GAAGGGCCAAGGGGCCAATAGGAAGAACAAAAGGCCAGAG GAAAAACCAAAAAAAAGGAAAAAAGGGGACAGAGGGGAACBG A A A A G A G A G G G G G G G G G G G A A A G A A A G G A A G G G G A G A A A A G A GGGGGAAGCCAAAAACAAACAAACCCGGCCGAAGAAGAGGGG G G G G A A G G A A C C C C G A A G A A G G A A G A C C G A G G G A G A G A G G G G G GAATTAGAAAAAAGGAAAACCGGGGGAGGGGCCCCGAAAAA
 AAA A G G GAA $A \operatorname{AGGA} G C G A A A A G A G G A A A A G G G G A G A A G G A G A A$ AACCGGGGAAAAAAAAGGAAGGAAGGAACCGGAAAAGGCCAA C CAGCCAACCGGAAAGGGGGGGGGGACCAACAAAAAGGAAAA A GAAGAGGGGGGAAAAGAGAAAAGCAGAAGGAGAAAAACCAG AAGGCCAAAGGGAAGGAACCAACCCCGGAGCCAGAAGAAAGA
 G G G G A A A A A A A A A A GAGAAAGGAGCGGAAAAAAGAAAA GAAA AAGAGGAAGAAAAGAACAAAGAAACCAAGGGGAAGAACAAGG
 A G G GAAAGAGAACCGGGGGGGGAGAGAACCGGAAAATXAAAG G G A A A A G G G G G G G GAAAGGGAACCAACCGGAAAGAGACACAG G G G GAGGAAAACGGGGAGAGGAGGAGACGGAAAAAGAAAAGA GAGAGAGAGGAAGGAGGGGGGGAAGGGGAAGACAGAAAAAAG A GAAGGGGAAGGAAAAGGGGAGAAGAAAAAGAAAGGAAACAA G G GAAATTAAAGGAAGGAGGAAAAGGGACAAGGGAGTTGGAA TAGGGGGGGGAACCAGAAGGCCGAGGGAAAGAGGGGAAACGG G G G G G G G G G G A A G G A A G G A A A A C CAACC GAAA A A GAAAC C C C C CAACAGGAGAAGGGGATGAAAAACAGGAGCCGGAGCCGGGG G GAA A G GAAGGGGGAGAAACGAAAGAGGAGACAAGGAACGGA A A GAAA A A A GAACCGAAGAAGGCAGGGGGAAAAAGGGAAAAG G GAAGGAAGGAAGCAAGGGGGGAAGGAACCGGGGAAAGAAAG G GAGAAGGCACGAAGAGGGGGGCCACGAAACCCAGGGGAAGG GACCAGGGACGGCCCCGGGGGGAAGGGGCCCCCCGGGGAAGG AAGGAACCAACAGGAAGGGGAAGGAGAGAAAAGGAGGAAGAG GAGAGATTGGAGGGGAAAGGGACGGACAAGAGCCGGGGAAAG AA $A$ A $\operatorname{A} G A A A A G G G G G G A A G G A A G G A G G G G G A A G A G G A G A A A G$

GAGGGAGAAACCAAAAAAGGGGGGCCGGAAGGAAAAAAGGGG G GAGAAGGGAAAAACCAGGGGAGAGAGAGGAGAGGAAAABAA G GAAGGACAAGGAGAACAAAGGAGGGAAGGAAAGGGAGAAAA A A A A A A A A G GAAAA A A G GAGAAGGGGGGGGCAGAAA GACC G G GAAAAGCAGGCCGGGGAAAAGGTTAAGGGGGGAAGGCCAGGG AAAAAGACGGGAGACCCCGGAACCGGGGAAAAGGGGAAGGAA GAAGACGGGACAAGGGGGAAGGAGCCAAAAAAAAGAAAGAGAA AACCAAAGGGGGAGAAAAGGGGGGGGAAAAAAGGCCAAAACC A TAGAGAAGAGAGAGGCCGGACAAAAGGCCAAAACCGAGGCC A GAGGGAAACGGAAAGAAAGAAAGAAAACCAAAGCCAAAGGA G G G GCCGGAGGGAGGGAAAGAACCGAACAAGGAGAAAGAAAG C CAA $A \operatorname{GAAAAAGGAGAAGGAAAAGAAAAGGGCAAAAAAAAAA}$ C C G G A G GAGGGAGAACGGGAAGAAGGAACGAAAAGAAAGGAA A A A G G GAA $A \operatorname{GGG} \operatorname{GA} A A A C A G A A A G G G A C A G G A G A A G A A A A G G A$ GAGGAAGAAAAAGGGGAGGAGGCCAAAACCAAAAAGAGAAGA $C \subset G G C C A A C C G G G G A A A A A A A A G G G G G G A A T T G G G G A A A A A A$ A A C C A A A A C C A A A A A ATTCCAAAACCAAGGGGAAG GAAAAAA A A C C A A G G A A G G G G G G A A G G G GCCAAGGCCGGAAAAGAAAGA A A A A G G A A C C C CAA A G G GCCCCAAGGCCGGAACCGGG
GAA A GAA $A \operatorname{AGC} C A A A A A A G G G G A A G G G G G G G G A A A A A A G G G G$ A A A A G G G G G GAAGGGGCCGGCCGGAAGGAAAAGGAAAAAAGA C CAAAAAAGGGGGGGGAAAAGGGGCCAAAAGGGGAAGGCCGG G G G G G G A A A A C C G G A A A A G G G GCCAAAAGGAAAAGGCCAAC C A A G G A A A A A A A A G G A A $\mathcal{A} G G A G G G G G G C C G G G G A G A A A A G G A A$ C C G G G G C C G G G G A A A A A A G G G G C C G G G G G G G G G G C C G G A A G G AAGGGGAAGGCCAAAAAAGGCCGGAACCGGGGAAGGAACCCC AACCAAGGAAAAAAAAAAGGGGGGGGAAGGGGAACCGGACAA A A G G A A A A G G G GCCGGGGCCAGAACAAAGAACGAGGGAGGAG GAGGAAAAAAGGAAAGGAAAGAGGAAAGCGAAGAGGGGAATA TAGGAAAGGAAATTCATACAGAAGCAGAAGGGAGCAGAAAGAG AAACAGAGAGGACAAGAAGGAAAAGGAACCTTAACCAAAACC A A G G G GAA A G G G G G G G G G G G G GAACC CAAGGAAAAGGAAAAAA G G G G G GCC G G A A C C A A G G G G A A G GAAGGGGAAAAGGGAAAAA G G G GCCGGGGAAAAAAAAAAGGAAAACCGGCCAAAAAAAAAA C C G GCCGGGGAAGGAAAAAACCGGAAGGCCAAAAGGGGAGAA G G A A A A A A A A G GAA $A \operatorname{GCC} C G G A A G G G G A A G G G G A A G G G A A A G G$ A A G G G G G G A A G G G G G G A A A A G G G G G GAA A GAA $A \operatorname{AGG} G A A C A A A$ $G G T T G G G G A A G G A A A A A A A A A A A A G G G G A A A A A A G G A A G G G G$ G G G GAAAAGGGGAAAAAAAACCGGCCGGGGAAAAGGGAAAAA A A G G G G G G A A A A A A G G A A T T G G A A G GCC G GAA G GAAC C G G G G AAGGAACCGGGGAAGGAACCAAGGGGAAGGCCGGCCAAGGAA G G G G A A A A G G A A C C A A A A G G G G G G G G A A G G A A A A G G A A A A G G G G G G G GAA G G G GAA A GAAAACCGGGGGGGGGGAAGGGAAAGG A A G G A A A A A A A A A A G G A A A A A A G GCC G GAAAA G G G G G G C CAA G G G G G G A A $\mathcal{A} G G G G G G G G G G G A A G G G G A A G G C C G G A A G G A G A A$ A A G G G G G G A A G G A A G G A A A A G G G G A A A G GACAAA A A CA A A G G G G A A A G T T A A A A A C G G GAGGAAGGGGGGAAGGAGGAGAAAAA G G G GCCAAGGAGGAAACAGAAAGAAAGAAGCAAACCGGGGAA $C \subset G G C C G G G G A A A G A G G G G G A C A G A A G G A A G G A C C C G A G A C C$ C C G G A G G G G G G G G G G G G G A A G A G A G A A A G G A A A G C C G G C C C C G G G A GCA C G G A C A C G G G G G G T A A A G G G G G G A A A G A G G G A C A A G GAGAAGGGGGGGACAGAGGGGAGGAGGAAAGACCAAGAGGG A A A A C CAA $A \operatorname{AGGGGGACGGAAGGGGCCGGAAAACCAAGGAAAA}$ $C C G G C C A A C C A A C C G G A A T A A A A G C C G A A A A A G A G G G G G G G G$ G G A G G G G G T T A A C C G G A G G G G G G G G G A G G G G G G G A A A A G G A T GAAGAGGAAAAGAGGGGGAGAAAAGGCAAAGAGGAGAAAACC GAGGAAGAAAGAAGACAGCAGAAAGAGAGGGAGGAAAAAAAA A G G G G A G G G G C C G A G G G G A GAA A C CAGACAGAAA A A A A G G G A A GAGAGGAGGGGGAAGGTAGAGGAAAAGGGGGGAAAAGATTGA

A A GAGGGGAAATGGCCAGCCAAGGGGAACCGGAGAGATCCAG CACAAAAAGAGAGGGGAAGGAAGAAAGGGGAAGAAAAAAA GA A G G GAA A $\mathcal{A} G G G G C C A G A G A G A A A A A G G G G G G G A A A A A A C A A A$ AAGGGGAAAACCGGAAGGGGAAGGGGAAGGAAAAAAAAGGTT
 G GCCGGAAGGAAAAAAGGAACCGGGGAAGGAAAACCGAAAGG G G A A A A G G A A A A C C G G G GC C A A G G G G G GAAAA A GCCGAAAC C A A A A G GAAGGGGCCGGGGAAGGGGAAGGGGCCAAAAGGAGAA A A G GAAGGAAAACCAACCGGAAAAGGAAAAGGAAAAAAAAAA
 C CAA $A \operatorname{GAA} G G C C C C G G G G A A A A G G G G A A G G G G A A A A C C A A G G$ A G G GAGGAGGGGAAAGGGAGGGGCGGAGAGGGCCAGCAAAAA
 $A C A G G A G A G G A A G A G G C C G G A A G A C C A A G G C C G G A A G G A A G A$ GGAAAAAAAAAGGGAACCAAAAAAAAAACCGGGGCCAGAAAG AA $A \operatorname{GGGAA} A A A A A A G G A A G G G G A A G A G A G G G G G G G G A A A C A A$ A A A A A A A G G GAAGGGGACTAAAAAAAGGGGGGGGAAAAAAAA G G G GAA $A \operatorname{GAAAAAAAAAGGCCAAAAGAGGAAGGAAAAGACACC}$ C CAAGGGGGGAGAAACAGAAAGAAGGGGAAAACCAGAGAGGA A A A A G G G G G G G GAAAAAAAGGGGAAGGAACCCCAAGGGGGGGG A A A A G GAAGGAAGGAAGGTTGGAAAGAAAAGAAAGGGGAAGG G GAGGAACGAAGACGAGAAAGAAGACACAGACAAGGAAGAGAA G GAGCAAAGGAAGGAGGGGGAAAAGAACAGAAAGGAAGAGAA A A A G A A A A GAAAAGAAAAAAGGACAAGGGGGGGGAACACAAG A G A A A A A A A A G G G GAAAA $A$ A A GAAAATAAACAACC G GACAA G G AGGGTACCGGGAAAGAAAGGGGGACGGGGGAAAGGGAACCTT GAGAGAGGAAGAGGGGTAGGAACAAGGGAAGACCAAAGAAGG G G G G A C G G A A G A A G A G G G C C G G G A G G G A A G G G A A A A A A G G A A
 $G G A A G A A A A A G G A G G G A A G G G A A G G A A A A A A A G G A G C C A A C C$ GAAGAGCCGAGGAGAAGGGGAGGGAAAAAAAAAAGGAAAAAG GGGAAGAGGGCCAAGGCCGGAAAGGAAAGGGGGAGAAAAAAA C C G G A A A A A A G G G G G G A A G G A A G G G G G G G G A A A A A A G G G G G G A ACCAAGGGGAAGGCCGGGGAAAAGGCCGGAAAABGCCCCGG G G G G A A G G A A G G G G A A G G A A G G A A A A A A A A A A A $\mathcal{A} G G G G G G G G G$ A A G G A A G G G G G G G GAAAAACCGGCCAAAAGGAAAACCCCGGGG G G G GAAAAAACCGGGGAAGGGGGGAAAAGGGGGGGGGAAAGA G G G GAA A G G GAAAACCGGGGAACCGGGGGGGGCCGGGGAAGA G G GAGGACGAAAGAAAAAAAGGGGAGACGAAACAAAAAACAA A G GACAGAAGGGGGAGGGGGAAAAAACCGGAGAAGGAGAA GA AAGGGGAACCAGGAAACGCAAGAAGGAAAAAGAAAAAAGGAG A A G A A GAACA $A \operatorname{A} G A A A A A G A G G A G G G G G G G G A A A A G G G G G G A A$ $C \subset A A A A A A G A G A G A C C G A A G G G A A G A G A A A A G A A A A A A G G A G$ GAACGGGGGAAGCAGAAGGAAAAAAGAGGGTTAAAAAGGGGG $G G C C G A G A A G G G A G G G A A A A G A C A A A A A A G G A G A A G G A A T C C$ ACAGGGCACAACCCAGCCGGGGGGGAACGGAAGAGAAGAGCA
 A GAGAGGAAGGAAGAGGGAAAAGGGGGGAAGGGGCAAGGGGG G G G GCCGAGGGAAGAAGAAAGGGGAGAGGGGCTTCCGGGAGG GAGGCAAACCCCAGAGAGAAGGGGCCAACCAAGGAGGGGGGA A G TAA A A A G G G G GAGAAAGAGAGAAGGGAACAAGAAGAAAAA TTGACAAAGAAAGGAAAAGGCAAAGAGGCCAGGAGGGGACAA G G A A A A A GCCCCAAAGAAAGAACCGGCCAAAAGGCCAACCGG
 G GAGGAGACAGACCGGAAAAAGGGGGGAAACGAAGGAGAGAA $G G C C A G G G A A A A A A G G A A G G A G A G G G A G A G G A G G A G G G G G G G$ AGGATTAAGGAACCGGAAGGCCGGGGCCGGAAGGGAGGAAAA G G G G G G A A G G G G A A G GACGGCAAGAAGAGACCAAAGAAAAAA AAAGAGGGGGAAGGGGGGGGCCGGAAAGGAAGGGGGAAAAGA

AAGGAACACCAACCGGAGAGAGGGCCAAGGGGGGGAGGGGGG A A A A A A G G A G G G C G G G G A G G A G G G A A A A A G G G A A G G G G G G G A A G G GAAAAGGAAAAAAGGAAAAAAGGGGCCGAAAGAAAAAGA GGCACCGGGATTCCAAAAGGGGAAAAGGGGAGGGAAAAAGGG G GAAAAGGAGCCAAAAAAGGGGAAGGAAGCAAGGAAAGGGAG A A G G GA $A \operatorname{GA} A \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A A A A G G A A A G G A A A A G G G G G G A A$
 AAGACCAAAAAGAGAGAAGAGAGAAACCAAGGGAAGCAGGAAA G G G G A A A G G A G G A G A G G A A A A A $\mathcal{A} G G G G G A A G G G G A A A A A A A A$ G G G G G G G G A A A A A A G GCCAAA G G GAATAAAGGGAGAGAAGCC A GAGAAGGCAAGGAGAGGAGAGAGAACAGGGGGGGGGAAGA$G$ G GAAAAAGGAAAGGAGACGGCCGGGGGAAGACGAGCAGAGAG G GAAAAGGAAAGGGAACAAACAAGAGGAGAGGGGGAAAAGGG G G G G G GAA $A \operatorname{GA} A G \operatorname{GA} A A G G A G A G G G C A A C A G A A A G A G G A G G G A$ G GAAGGAAAACCGGAAAACCAGGGCCGGAGAAAAGGGGGAAG GAGGGGGAGAGGCCACACGAAAAAAAAACCAAGGAGAACCAG A A G G A A A G GA GAGGAAGAGGCCGAAAAAAGCAAAAAAGAGBA A GAG $\operatorname{A} A A C G G G A A G G G A G G G C G C C G A C A G A A G G A A G A C A A A A$ GACAGGGGAAGGGGCCAGAGGAAGGGGGGGAGGGGGG
 A GA $A \operatorname{GA} A G G A G G A A A A G G T T T A G G G G A G G G G G A A A A A A G G G G$ G G G G GAGGCCGACCACGAAAAGGGAGGACCGGGGAGGAGAGG G G GACCAGGGGAGGAAAAGAGAGAGGGGAACCGGCAAAGGAA GAAGGAGGGGAGGACCAGACAAGAGGCAAAGAGAGAGGCCGG
 CACC GAGAAACCAGAGAGAGGGGATAAAAAAGGGAGGGTAAG A G GATAGGCCAAAAGGAAGGGGGAAAAGAAAAACAGCAAAAG A G GAAACCAAAAAAGAGAGAGGGAGGGGGGGGAGAGAGAAAA GAGGCAAAGAAAAGAAGACCCCGGAGGGAAAAAACCGAAAAA ACAAGGGGAAAAGGAGCAGGCAAGGAAGAGGGAGAGGAGGAA G G G G A A A A C A T T G A A G G G A A G G A T G A G G G G A C G G G G G G G C A G GAAAAGAGGAGGAGGGGGGGGGGGAAGGAAGGGAAACCGGGG G GAGGAAGAGGGGAAAAGAAAGAAAAAAGGCAAAGGAACAAA $C \subset G G A A C C A A G G G G A G A G G G C C A A A A G A A A A A G G G G C C A G G G$
 G G G G A G G G G G A A A A A A G A A A A G G G G GAAA $A$ A A G G G A A GAA A $G$ $C C G G A C A A A G A A A G G A G G G A A G G G A A T A G G G G A T G A G A G A A G$ A GAGGGGAAAGAACGGAAAGAAGAGAGGGGAGAACACAAAGA AAAAGGAAAAGGAACAAGAAGGAAAACCGGGGAAAACAAAAA G GAA A G G G GAAA A A A A GAAAA $A$ A A G G GAAAATAGGCCAAA G GA G G G G G A A G A A G G G G A A G GC CACAATTGGAAGAAAAGGGGAAA GAAACAGGAACCGGGGAAGGAATAGGCCGAGGAAAAAACCCC A A A A A A G G G G G G G G A A G G G G GAGGGAGAAGAAAAGAAGA GAA A GAGAACCGGGGGGAGGGGGGGAAAGAACAAAGGGGCCAAAA $G G A A A G G G A A G G A A A A G G A G A A A A G G G G A C A G A A G G G G G G A A$ AAGGAAAAAAAAAGGAGGACAAAGGGACAGAGAACCGGCCAA A GAGAGGGGGAAAAGGAGAGCGAGACAGGGAAGAGAAGAGAAA
 AGCCAAGGGGAAGGAAGAAAAAAGAAAGAAGAGGAGAAAAAA AAAAGGAAGACCATACAGAGGGCAAAAAGAGAGAAAGAAAAA GACAGGGGAACCAAAAGGGAAAGGGAAGGGGAAGAAGAGGGG CAGAGGAGAGCAGGCCAAAAGGCCAAAAAGGGGAGGAAAAGG A A A A GAAAAACCGGGGAAAAGAAAGAGGAGGGAACCGGAGGA $C \subset G A G A A A G G A A A A A A G G C C G G G G G A G A G G A A C A G G G A A G A A$ G GAAAGAGAAGGAAGAAAGAGGACAGAAAGGGAAGGGGAAAC G G G G G A G A G A A GA G A A A A A GAGAGGAGGGGGGGGA GAA GACA ATACGGGAGAAAAAGGAGGAAGCCAAAAAGGGGGGGAAGGAA A GAAAACCGGAAAAGGAGAAAAGGCCAAGGGAGAAGAABGAB G G T TACGGAAAAGGAAGGAAACCCAAACAAGGGGAAAAGAAA

G G G GAA $A \operatorname{GGGGGGGGAAGAAAAGGAAGAAGCAAACAGGAAGE}$ G GAGGACCCGAAAAGGAAAAGGGGCCAAAAACAGAGAGCCAG A A A A A A G GAGGGAAAAAGACGGAGAAGAGGGGCCAACCACAA GAAGAGAAAACCGACCAAGGAGCCGAACGGGGAAAGAAAGAG G G G GAGCCACCAGGAAGAAGCAAGGGGGAGGGAAAAAGGGGG G G GAAAAAGAAAACGAAAGAGGAGGGCCGGGGGGGGCAAAAA G G G G G A A G A A G G G G A G A A A A A G A A G G C C A A G GAAA A A G G G A A AAGGGGAACACAAGGAAAGGGGAAAGGAAGAAAAGAAGAGAAA A A G G G A G A G G A A T T G G G GCAACAC GAAGGAGAGAAAGA G GAA AAGGAAGAGAGGCCAACCAGAAAAAAGGGAAACCAAAAAAGG G G A A A A A A A A G G G G A G A G G A GAGGGGGAGGAATTAAAAAAAA GAGGGAGGGGGGAAAAAAAGAGGGGGCCAAAACCAAAAGAAA GAAGGGCCGGAGACAGGACAGAGAGGAGGAAAATAACCAC GA G GCCGGGAAGGGGAGAAAATCCACGAAGGAGGAAACTTGGGG G GAA $A \operatorname{GAA} A A A A A A G G A A C C G A A A G G G G A G A A A A G A A A A A C A$ A GAAAAGGGGAAGGGGAAGGCCGGGGAAACGAAGAGAAAAAC A A A A G GAGGGAAAAGGAAAAAAAACCAAGGAAAA GAACACAA AA $A G A A G G A A G G G A G A C C A A G G A A G G C C G G A A A A G G A A A A A G$ G G G GAGGGAGGAACGAGAAAGGGGGGCCAACCCCCCAACCGG A G A A A G A A A A A A G G GAGACCGGGGGGGACCGAAAAAAA GAAG GAAGGGAAAAGGGGACGGGAAAGAGAGGAGAAGCAGGGGGCC A A G G G GAGTTGGGGAAGGGGCCGGGGAGAAAAGGAAAGAGCC G GCGACGAGAAGCAAAAGAAGAGAAAAAGGGAAACAAACAAA G G G G A A G G A G G G C A G G A G G A A A A A A A GAA $A$ G G G C A C A G A G G C C GAAGCCAGAGAACCCCGGGAGAAAAGGGAGGAAGGAAAAGAG GAGAGAGGAGCCAAAAAGAACAAGGGGAGAAAGGAGAAAAGA A GAAGAAAGGAACAAAAAAACAGAAGACCAGAGGGGAGACAA C A A A A A A A A G GACCCCAAAAAAGAGGGGAGAAAGAACCGGGG GAAACCGGGAAGAAGGAGAGAAGAGGGAAGAGAGGAAAAAGA
 A A A G G G G A A G A CAA A C G G GAGGGGGGACAAAAGGAGAAATGA G G GAA GAGAACAAAAAAAGAAGAGCAAAGGCCAAGGGGGGAA G GAA $A \operatorname{G} G \mathrm{G} C \mathrm{C} A A A \operatorname{A} A C G G A A A G G G G A T A A G A G G A A G A G A A A A$
 AAAAGGGGGAACACAAAAAAAAAAAAGAACGGGGGAAAGGAG A A A A G GAAGGAAAAGGGACAAGAGACGGAAAAGGAGCGAAAA A A GAGGGGAAAAAGAGAGGAAAGGAAAAAGGGAAAGAGAACA $A G C C A A A A A A G G G G A A A A A T G G G G G A G G G G A A G G A A A A G A G B$
 C C T T G G A A A G A GAA A A A T G A G G G G A A G G G G A A G G A C G G G G G G G GCCGGAGAAGGCAAACCGGAAGAGAAAACGGGGGGCCGGGG A A GAAACCAAGGGGCAGGCCGACCAGCCGGAAAAAAGAAAGG G GACGAAAAGGGAAAAAGGAGACAAAAGAGCAAAAGAAAAGA G G G G G G G A G G G A C C A G A A A A G GAGGGCCAGAAGGGAGAAAGG A A G G A A A A G G A A A G GAGGGGGAGAGGACCCAGAAGAAAAACC A A A A A C G G GAA A G G G G G A GAGGGGCCAAGGAAGACAC GAA GA AACCAAGAAAGAGGAACCCCAGAGAAAAAAAAAAAAAGAGAA $C \subset C A G G G G G G A G G G G G A A A A G G A A G A G G A A G G G G A A A C G G G G$ G GAA A G G G G GAAAAAGGAAAAGCAGGAAGGAAAC GAAAAAG G G GAG $A \operatorname{GGG} \operatorname{G} A A A G A A G A A A G G G G G A A A G G G G A A C C A G C A G A G G$ A GAGCAAGAAGGCAGGGAGACAGGAACCAGAAAGAGAACCAG G GACAAAGGAAACAGGCCGGAACCGGAAGGGGAAGGCCAAAA
 AA $A G G A A A G A G G A G G G A A A A C A G A G G G A G G G G G G G G G B A A A G$ G G GAAACCCCAACCGGAAGGAAGGCCGAAATAAAGGGAGAGA A A A C G GAGGAGAAACGAAAAAACCGGACAAAAGGAAAGGGGG AA GAAGAAGAAACCCCAGCCAGGGAAGGGAAGGGGGCCAGGG G G A A C C C A C A G G A GAAAACAAAAA G GAACCCCGBAAG GAA A A $A G G A C C G G G A A A G G G G G G C C G G A A G G A A A C G G G G G G G A A A A A$

G G G G G G G G G G G G G GCCAACCAAAGAAGGGGGAAAGGGGGGCA G G GAAACCCCGGACGGCCGGAAGGGGAAGGGGAACAAAGAAA AC G G G GAA AGAACCGGAAAGCAGCCCAAGGGAGGCCCCAAAA GAAAGGAAGAGACCGGAAAAAGGGAGGAGGGGAAAACCAGAA G G G G G G G G G G G G A A A G G GAAAA A GA G GAGGGGGGAGAAAAA G

 G GAGGGAGAGAGGAGGGGGGAGAAGAGGAAAAAAGAGGGGGA G GAGAGAGAGGAAAGGAAACAGGAAGAAAGCCAGGACACCBG G G GCAGAGGAAGGGGGGGAGGGCAGGGACCGGGAAGGGGGGG C C G GAAAAAAAAGGGGGGAAAACCAACAGAGAAAGGAGAAAG G G G G A A A A GACCACACAGACCAACGAGGAACCAAGEAGTTGG1
 G G G G G G A A G GCAAACCAAAAGGGACAGGGGGGAAGAACAAGAG G GAGAAAGACAGAGAAGGGAGGCCAGAGCCAAAAGGGAAACA CAAAAACCACACCCAAAAAACCGGGGAAAAAAAAGGGGGGAA
 C C G A G A A G A A C C C C G G A A A GAAAGGAGCAACCCAGAAAAAG G A A A G G GAAGGGGAGCCGGCCAAGGGGGAGAAAAAGGG
GCCGGACGGAAGGGGCGGAAGGGCCGACCAGAGAGAAAAGG $G G A A A A C C G G A A G A C A G G G G G G G A A A G A G G A G A A A A A A G G G G$ G GCCGGAAAAAAAAGGAGGAAGAGAAGGAGGAAGCCAAGAGG AA G G A G GAAAGGCCGGAAAAAAAAAGAAGGGAAAAGAAAAAA A GAGAGGGGGAGAACAAGAGAAGACCAAAGAAGGGGCCBGAC ACAGGAACGGAGATGGGAAGAAAAGAAGGGGGGGACAGACBA

 GAGGGGAAAGAGGGAGGGAAAGGAGGGAAAGGAAGGGAGGAA
 ACAGAGGAAAAAAAGAAAGAAGAGAAAAACCCAGAGAGAGGG A GAA A G G A A A C C G G G G G G G G A A C C C C G G G G G G A G G G G G C A A G G GAAGGAGGGGGAAGGCCAAAAAGAGACGAAGGAAAAAGAAA
 $G G C C A A A A A G G G G G A A G G A G G A G A A A C A G G A A C A G A G G A G A A$ GACCGGGGGGAAAAAAAGCAAAAACCAAGGAAAGCAAGAGAG G G A A A A G A A A A A A GAACCAGAAGGAAGGCCGGAACCAAAGAC A G GA A GAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACC GA GAAGAGGGAAGGGGAAGGGGCAGGACAAGGAAAAGGACAGAG

 A A G G G A G G G G C C G G G G G A G A G G G G G G G G A G G G A A G G G G A A $\mathcal{A} G$
 AAGGGGGGGGAACACGGGGGAAATGGAAGGAGAAGGCCCCGG G G A A G A T TAAAAAATTAGCCAGGGAAGCAAGAAAAAAAAAGG A A G G A GCAGGCCGGGGGGAAGGGGGGACGGAAAACCGACCGG A A A G A A A G GAAAGGGGAAAACACAAGGGAGCAAACCCAGGTA CCGAAAGGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAAA A A G G G A G A A A A G G G A A G G GAGGGGGGCCAACGATGGACAAAG
 G GAA A G C C A G G G A G A A G GAGAAAAGGCGCCGGGAGAAAAAA G GAAACCAAGGAGAGGGGGATAAGGGGGGATAGACAACAAGAA AAAACGGACCAAGGAAAAGGAGCCGAAAGGGGGAAGGGAAGAG
 AAAAAAAGAAGGAAGGAGAACCAAGGGGAAGGGGCCGGAACA G GCAA $\mathrm{C} A \mathrm{~A} G A C \subset A A A A A A G G A A G A A A G G A A A A G G C C T T A A A A$ A A A A A A A A G G G GCCGGAAAGAAGGGAGGGAACAACAAGAAGG A A C C G G G G G G A A G G A A G G G C G A G G A A A G G G G A G A A A A G G G G A GGCCCAAGGAAAAAGGGGGGAAAAGGAACCGGAGGGAAAAAA $A G G G A G C A G G A A G G A A G G A A G A A G G G G A G A G G G G G G A G A A G G$

A GAGGAAAAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAGG AA $\operatorname{G} G A A A A C C C C A A G G G G G G G G G G A A A A A A G G A A G G G G A A A A$ G $G G G A A C C G G A A G G G G G G G G A A G G G G A A A A A A G G G A A A A A G G$ G G G GCCGGAGAAGGAGAGACAGGAGAAAGGAGGGAAAGACAC G GAAGGAAGGACAAGGAACCAACCGGGGAAAAGGAAAACAAA $C \subset A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G A$ A G G G A A G A A A A GACAGAGCCGGGAAAGGGGACAAGGACAGAA G G G G G G A A A GAGGAAC GAAAGGGGGGAAAGACGAA GAGAAG G G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAGGAAGGGGG G G G G G G G G GAGAAGGAGGAAGGAAAAAAGAGGGGAAGAGAAG GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAAGAT CACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAGG A G G G A A G G G G G A G A A G C C A GA G A G A A A A G G GA G GAA A A G G A A GAA $A$ A A A $\mathcal{A} G G A G A A A A A A G G G G G A G G A C G G C C A G G G A G G G G G$ GAGGAGAGGGGATTACGAAGGGAGGGGGGAGGAGAGGGAACC A A G GA GAAAGGGAAGAAAGGAGGAAGAGCACCAGAGGACCAC G GAA A GCAAACCGAAGAAGGGAGAGAAACGAGACAAAAAAGG $A C A A A C A A G G A A C A A G A A G G C C G G G G A G G G C C A A G G G G G G A A$ A A GAGAGGCCGGGGAGGAAACCGAACGGGGCCAAGGGGAGAA G G G G G A A A G G G G A A A G G G A G A G A G A C A G G A G G G A G G A A G G G G AAAAAGGGAAAAAGAGGGAAGGGGAGGGCAAGAAGGGAAAGA ACGAAGGGGAAGGGAGAAGGCCAGAAGGGAGAAGGAGAAGAA
 A C G G A A G G A A G G A A A A T T G G G G G A A G A G A G G A A G A A A G G G G G A A A C G A A A G G G G A A $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A G G G G C C G G G G C C G B A A C C$
 G G GAGGGAAGAACATTCCGGGAAAGGCCGGACAAGAGAAAAG
 G G G G G A A A A A A GAA $A \operatorname{GG} \operatorname{A} A A A A G G G A G A G A A G G A G G A A C A A G G$ $A A C C G A C C A G G G A A A C A G A G G G G G A G C C A A A A G G A G A G G G G G$ G G G GCCAAGGGGAAGGAAGGCCAAAAGGAAGGAAAAAAAAAA AAAAAACCGGGGGGCCAGAAGAAAGAGGAATTAAAAAAGAAA A A G G A A G G G G A G G G G G G G G G G A A G A G A CA $\mathcal{A} G G A A A A A A G G G G$ A A G G GAG $\operatorname{A} G A A G G A G A G G G C A G T T A A G G G G A A A A C A G G A A A A$ GAGGGGAAAGAAAAGGGAAGGAGGGAAAAGCCAAAAGGAGAA G G G G A A G GCCAAGGAAAAGGCAAAAAGGGGAAAAGAAAGGGG GGCCAAGGCCGGGGAAGGGGAAAAGGAAAAAAGGAAAACCGG G G G G G G G G A A A A A A G GAAAACCGGGGGGGGAAGGCCAAAACC C C A A G G G G G G A A A A C C G G G G G G A A G G A A G G G G A A G GAAAA C C
 AAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAGG A A A A G G G G A A A A A A G G G G A A A A G G G GAAAAAAA G GAA G G G G A A G G G G G GAA $A \operatorname{GAAAAAGGGGAAAAAAGGAAAAAAAAAAGGCCAA}$ C CAA C GAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCGAAAAA A A G G G GCCAAGGAAGGGGCCAAAAGGAAAAGGAAGGAAAAGG G GAAAAGGCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGGG G G G G G G G G G G G G T T A A $\mathcal{A} G G G G G G G A A C C G G G G G G G E A A A A G G$ A A G G G G G G G G G G A A A A A A G G G G T T A A A A A A G G A A G G G G G G G G A ATTCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAGG AAAAGGGGAAAAAAAAGGGGAACCAAAAAAAAAAAAGAAAGG G GAACCAAAAAAAAAAAAGGAAGGAACCAAGGGGAAGAAAAA C CAACCAGCCAAAGAGAAGAGAAAGAGGGAGGGGGAAGAACC GAAACAAGAGAAGAGGGGCCGGCCGGGGGGAAAACAGGAAGG A GAGAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGAG AAACGAGAGGAAGGGGAACAAAAAGAAAGGGGGGAAAGAAAA G G G G A A G G A A G GAAGGGGCCAAAAAAGGAAGGAACCCCAAAA G G A A G G A A G G G G G G G G A G A A A A A GAGAAGGCAGGGGAA G GA A CAAAAAGAGGAAGACAAAGAAAGGAGAGGGGGAAGGGGAAGAG G G G GAAGGGGAACCGGAAAAGGCCCCAACCAAAAGGAAGAAA

A A G G A A G G A A G G G G G G G G A A C C G GAAAAAACC G GAAGGGGCC A A A A G GAAAA $A \operatorname{A} A A A C C G G A A A A G G G G G G A A G G G G G G C C A G A A$ G G G G A A C C G G G G G G G G A A G G G GAA A GAAC A A A G GCC G GAA G G AAAAAAAAGGGCACAGGGAGGAAGAAGGAAGAAGCAAGAAGG A A GAAAAGAGAGAGGGAGGGAAAACCGGGGCAGGGAGGGGCC A A A C G G GAAGCCGGTTAGAAAAGGGGCAAGGGAAAACCACAG A A G A A A A G A A A G C C A G A A A A G G G G G GAGGGGGC GAGCC G G G A AGGAAGAACAAGCCGAGGGAGAGGCCGAAAAAAAGGGGCCAA AACCGGAAAGGGGAAACACCGAGGAAGGAAGGGGAAAAAAAA AAAAGGGAAGAAGAAAAAGGAGAGCCGGCAAGAGAAAAACAA GAGGGGGGGGAAAAAAGACCAACGGGGGGGAAAAAAAGAGGG A A A G A A G A G G A A G G G G A A G G G G G G A A A A G A GA G GAA G G TAA $A$ A A G G G A A A G G A A A G A A G G GAGGACAACCCAAACCAAGGGGGG C C G A A A G G G G A GA GAA A A G GAACCGGAAAAGGAAG GAAAAAA C CAAAAGGCCGGCAGAAGAAAACCAAAAGGCCAAGGGGGGAG A A A GAAATGGAGAAAAAACCGGGAGGAACCGGGGGGACAAGAA C CAAAAGGAGGAAAAAAGAGGGAAGCGGAGCCAACAAAAAAG G G A A A G G G A A A A GAAAAAAAGACCGAGGAACCGAAACCAGCC G G TACAGGGGAGAGAAGGAAGGAAAAGGGGAAGAAGA
AAAGAAAAAGAGAAGGAAGAGAACCGGAAAGGGGGGAAAAA AGAAAAGGCCCCAAAACAAAAGGGAGGGAAAGAGTTAAAAAA C CA $A G G G G A A A C A G G G G A C C A G G G G G G G C G A G A G A A A A C A G G$ A A A A A A A CAA $A \operatorname{GGGGGAAGGAAAAGGAAGGCCGGCAAAGGGG}$ AACCGGAAAAGGAAGAAAGGAACCAGTTGGAAGGAAGAAAAA AAAGGAAAAAGGGAAAGGGAAGGGAGGAAAGAAAGGAAGAAA AA A G G G G G GAACAAAAAATAAAAGAAAGAAAGGGCCGGAAGG GAGGAAAAAACCAAGGGAAAAAGGAAAAAATAGAACCCAGAA GAGAAGGGAGGAAACCAAAGAAAAAAAAAAAGAAGGCCAGAC AAAGGGGGAAAAGGAAAAAAAAAACAAGGAAGGGCAAAAAAA $G G A C C G A A A A G G G A G G G G G G G G G G G A A G A A G C G A G G A A G A G A$ A G G A A A G G G G A A G G A A A A A C G GCCAGACAACCAA G G GA GA GA AGGCGAAGGAGAAGAAGAGGAGGAAGCCGATAAAGGAAGAAG G GACAAAGAAAAGAGGACAACCGGAGGGAACAAAGAAAAAAA
 GACACCAATTGACCCCAACCAGGGAGACGAGACAGAAAGGAG CAA GACAAAAAGAAAAGGAGAGAACCAACCAGTTCCAGAABA AGCCCAAAAACCGGGGGGAAGGAGCCAAAAGGGGCCGAAAAG G G G GAA $\operatorname{A} G A A G G A A G G G G A G C C G G A A G G A A G G C C G A A A A A A G$ A GCCCCAAGGAAGGAGAAGGGCGAAGCAAAGGAGAGAAGGGG
 $A C G G A G G C A G G G A G A A A A G G A G A A G G G G A G A A A G A G G A A A B G$ G GAA A GAGGGAACAGGCCGGAGAACCACGGGAGGAAAAAACA AGGGCCGGAAGGGGGACCAACCAGGGAAGAGACCAACCAAAG G G G G C A A G G G C A G G G G C C T T G G A G G G G G C A A C G A G A A G A G A A GAGGGACCAACAGAAGCCGGAGAGAAAAAAAAGGAAAAAACC GACCAAAAGAAAAGCAAAAAGGGGGAGAAGAAGGAAGGAGAG
 ACAGGGAAAAAGGGAACCGGAAAAAAGACAGACCAAAAAAGG G G G GAACCAAAAGGAGAAGAGAGGAAGAAAAATTAGCCBAAA ACAAAGGAAGGAGGGATTGAAGCAGAAGAACCAGGGAAAGAA GAAGGACCAAAAAAAAAGACACGGGGAAAGAAAGGGGGAGAA AA G G A A A A A A A A A GAA A GAAGAGACAAAAGGGCAAAGA G GAAG A G A A G A A G A C G G G G G G G G A A G A A A A A A A A A C C G GAA G G G G A G AAGGGGGGGAAGAAAAGAGGGGAAGAAAAAAGAGGGAAAAAA AACCAAGGGGGGAAAAGGAGAAAAAAGAGAGAGGGGCCGGAA A G A G A A G A G G A GAA $A$ GAGGAGGGAAAAGGCACGCCAAGGACAC CAAGAAAAAGCAAGCCGAGGCAGGCCGGGATAGGAGAAGGCC $G G A G G G A A T A A G A A G G A G A G G A C C A A C C G G C C G G G G G G G B A A$ G G G GAAAAAAGGAAGGGAGGAGCAGGGGAAAGAAAGGGAAAA

ACAAGGAAGAGGAAGGCCCAGAAAGGAAGGAAAAAAAGAGAG GAAGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAGAACC G G G G G G G A G G A A A G C A A GAAA A A A A A A A G GAGAACAAAAAA A G GAAGAGAAGGAAAGGAACCGGCCAAGGGGGGACAGGGACAA AA G GAACCGGGGAAAAGGAAAAAAAAGGAAGGAAAACCGGGG G G A A A A G G A A C C G G A A G G C A A A G GAGCCAGAACCAA G GAA GA GAGACCCCAGAAAGGGCCCCAGAACCCAACAAGGGGAGAGAA AAAACCGAGAAAGGAAGGGGGGCCGGCCGGGGGGACGGAAGG G GAGGGAGGGAAGGGGCCTTGGGACGCAAAAGAGGGAAGAAG G G G G G G G GCCCCAAAAGGAAAGGGGGCCAGCAGGGGGGAAAA A GAGAGAAGGGGGGGGAAAAGGAAGGCACAGGAAAAGAAAGG GAGAGGAAGGAAGGGGCCAAGGTAGAGAAGAAAAAAAGAGAA A A A A G GCCGAAGAGGAAGAGGGGGGGAGGAGACCAGAAAGAG $G G A A G G C C A C G G A G A A G G A A A A A G C G G A G A G G A A A G G G A G G B$ G GAAAGAAGGAAGACAGGCCCCGACCACGGGGGGGGGGAAGG G G GAAAGGGGACGGGGAAGGCCCCAGAAAAAAACAAAAGAAA A A A GAA A G G G G GAAAA $A \operatorname{A} G A G G A A C G G A A A G A G G A A G G G A G A G$ G GAACCGGAAGAAAAAGGGGAAAAAGGAAAGGCAAAAGAGAG $G G A G G G A A C C A A G G C C G G G G A A A A C A A A A A A A G G A G A A G G A A$ G G GAA $A \operatorname{GGG} \operatorname{GA} A G A G C C C A G G G G A A G G A A A A A A A A G G A A G G G A$
 G G G G G A A A A G GCGGGGAAGGGGAAGGAGAAGGGGGGAAAAAA G G G A A A GAGGGAAAACAAAGGGCAGAAAGAAGAAAAAGAGAA $A C G A A C A A G G A C A G C C G G T T G G A G G G A G A G G A G A A A G G A A G B$ G GAA A G G G A GAGGGAAAAAAGACAGAGAAGAAGGGGAAAGAA AGGGGAGAGAAGAAGGAGAGCCACACGAGGAAGGAAGAGAAG A A G GAA A G G GAAAAAAAAAAAGAGGGGAGAGGCAACGGAGAA G G G G A A C C A G G G G G G G G G G A A G G A G G G A GACAA A A A TAA A C C G GAGAGGAAACCAGAAGAAGATGAAGGAGGAAGABAGAACBG GACCGGGGAGAGAGAAAACCAAGGGGGGCCCCAAAAAAAAAA A G G A A A A G A G G ACCAAAAAGCCAAGGAAGAAAAAAAAAGAAA A GAACCAAAAGGAGAGGAGAACGACAGACCAAGAGGAAAAAA

 A A A A A A A A A A A A G A CAA $A \operatorname{AGAGGGGGAAAAAGGGGAAGAAAGG}$ A A A A A A A A G G G G A G A A GAACCAAAAAAAAACCGGGAGGAAA G G GCCAACAAGGGCCAAGAGGCAGGAAAGGAGAAAGGAAAAGA G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A A A A G G A A G A A A G A A G A G A A G C C A G G G A G$ G GAA A A G G A A C C G G G C G G A A A A G G G G GAAAAAACCAA G G G GAA G G A A A A A A CAG GAAAAGGGGAAAGTAGAAGAGAGAGCCACAA G GAAAAGGGGCAGGACAGGAAAGAGAGAAGAAGGGGGAAAAA G G G GAA A A C A A A A G A A G G A GAA A A C C G GAA G GA GA G G A G G G G
 G G G G A A A A G G G G G G A A A A G G A A A A G G G G G GCCGGCCCAAA G G A A G G G G A A A G A A A G GAA A G A A G G A A A A C A G A C C A G GAGGGGG ATAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGB
 A ATAAGAAAGAACAAGAAAACGGAGAAGAGAGAAAACCGBAG AACCCCAGCAGGTAAACCAACCGAGGAGAGAAAGCCAAAAAA G G A A C GAA $A \operatorname{G} G C A A G G G G G G G G A G A G A A G G A A A A G G A A A G G G$ A A G GCAGGAGAAAGGGGGACGAAGGGCAGGGAACGGCAAGGG GAAAGGGGGAAAGGCAACAGAAAGCCGAGACCAAAGGGGGAG G G G G G GCAAACCCGCAAAGGGGGGGAAAAAAAGAAAAGAAAG G GAGCACCAAGGGGAACCTTGGAAAACCCCAAAAAAAAAAGA GAGAAAAAAAAAGAGGAAAGAGGAGAGGAGAAGAAGAAAGAA CAAAAGGGGAAACCGGGCAAGAGAGGGCACAGGGGGAACAGB
 A G C A A A G G G G G G A A G A A G A A T T A C A CAA A A G GCCC CAAA A A A $G G A C G G C C G G G G G A G G G A A C A G C C G G G A C C G G G A A A G G G G A C$
$G G T A A A G G G G A A G G G A G A G G G G A A A A G G C A G G G G A A G A A A A A$
 A A G GAAAACCAGGAGAGGCCGGGGTTGGCCGGAGGCAGAAAA A AAACCAAAAAAAAGGAGGAAAAAAAAAGAGAAAAAGGGGGA T TAA A A G G G GAA $A \operatorname{A} A A G G C G A G A A G G G A A G A A A G A A A A A G G A$
 G GAGTAAAAAGGAAAACCAAGGAAGGAAGGAAAAGAAAAAAA $G G A T A G G A A G G A A C C G G G C C A A A A G G G G G G G G A G G G G A G A A A$ A A G G G G A G A G G A G A A G A G G G G G G A A A G A G GAGGGGA GAAAAA $A G G G G A G G G G A A A G A A G G G G A A G G A A G G G G A C A A G G C C G G G G$ A G GAGGCAGGGGGAGGAACCGAGGAGGACCAAACAACAGAAA
 A A G A G A G G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A A A A A A C C A A G G G G GAGACCCAAGGGGGGGAAAAAAAAGG G GAA A ACCAAAAAAGGCCAAGGCCCCGGGGAAAAGGAACCGGAAAA A A A A G GCCAAGGGAAAGGGGAGGAAGAGAGAGAAAGAAGACA
 G G G GCCAGAGGGGGCGCAGAGGAAAGAGCAAGCAAAGAAAAA GAGGGGCCGAGGAAGGGGCCCCACCAAAGAAAAAGGG
GAAAAAGGGCCCAAGAGCCGGAAGGAACCAACCCCAAGCAG AAGGAAAAAAAGAAAACCAGGGGGAACACCAAAAAAGAAAGB G G G G T TAAAAGGGAAGAAAAGGAAAGGGGGAAAAGGCCAAAA G G G G G G G G G G G G G G G G A A A G A G A A A A A A A A G GAGAAAAA A A A
 A A C C A C A A A A A A A A C C G A G A A G G A A GGGGAGGCAAAAAAAAA
 AAAAAAGAGAGGAGGCGAAGGCGGGGAAAAGAGAGGGAAAGA A A G GAA A GCCAAAGAGGGGAAAAACCAGAAAAGGGACCCCGG G G G G A A A A C C A A G GA G G G TAGAAAAAAAACAAAGGGGGGCCGG G G GAGAAGGAAGCACAGAAGAAAGAAAGGAGGGGGGGGAGAA
 AA G G G GAAAAAAACAAGAGGGGAAGGGGAAGGGGAAGAAAGA AC G GAGGGCCTTGGGACACAGAAGGCGAGGGGAAAGGGAAGA G GCGAACCGGAAAAGGTGGAAAGGGAAAACCCGAAGAAAAG A G A G A G G G A A A A G G A G G G C A G A G G G G G G A A G G A A G G A G G G G G G G G G A A A A C C A A G G G G G A A G GAGGGGGGGGAAAAGAAAAC A A G GACTTCGGGAGGGAGAAGGAAGAGGGGAAGGAAGGAACAAA G GACAAAA $A \operatorname{A} G \mathrm{~A} G A A A A C G A A A G G G G G A A G G G G G A A A G G G G G G$ A A G G A A A A G G G G A G A A A GCAGGCAGGAGGCGGGGAAAAAA G G G GAA A GCCGGGGAAGGAAAAAAGAAAGACAAGGAAGGAAAAA
 A GAAAAGGAGCCAAGGAAAAGGCCAACCAAAAAGAAAGAAAT A GAAATGGGCAACCAGAGGGGAGAGGAAAGGAGAAGCACAGA GAGGAAGGGGAAGGAAAAGGGGGGGGAGCAGGAAAAAGACAA G G A A A A C C A G A A A A A GAGGGAAGGGAAAAGAGAGGAA GAAAA G G A G A A G A C C G G G A G A T T G G G G A A A A G G G G G G G G A A G G A G A $G$ CAA $A \operatorname{G} G A G A G G G G G C C G A A G G G G G A G A A A A A A A A A G C C C G G G$ A A C A G A GAGGGGGGGGGGCCGGAAGGGGAACCCCCCGAAAAA AA G GAAAAAAAAGGGGAAGGAAGGAAAAAAAAAAAAAAAGAA AAGGTTAAAAGAAAAAAAAAGGAAAAAAGGAAAAAAAAAAAA A A A A A A A A A A A A A A A A A A G GAA $A \operatorname{GGGGGGAAGGAATTAAGGGG}$ G G G G G G A A A A G GAAAAAAAAAGAAAAAACCCCGACAGAAAA G G A A G G G A A A G GAGAGCAAGCCAGCCGAGAAAAAAAAAAAGG GGAGAAACGAAGCCCCAGAAAGAAAAAACCCAAACCGGGGGG A A G A A A G G GAACGGGGGGGGGGAAAGGAAAAGCGAAAACAAA A A A A G GAAAACAAAGGGGGAACGGAAGGAACCGAAAGAGGCC AA $\operatorname{A} G A A A A G A G G A A A C A A G G A A A G G A A A A A A A G A G G A A G G G G$ $G G A G A G G A A G A C G A A G A A G A G G A A A A A A A A A A A G A A G G A A G A$ AGGAAGAAAGCAGGGGCAGACAGATTAAAAAAAGAAGGAACC

G GAGGGAACCGGAAGAGAGAGGAATTAAAAGGAGGGGACAAA
 ACTAAAGAAAGAGAAGAAGGAAAAAAGGAAGGGAAAGAAACC C C A GAA A A A A G G G GAA $A \operatorname{AGC} C A A A G G G G A A G G G A A G G G G A A A A$ G G GAGAAAAACCAAGGAAGGAAAAGGGGCCACGGGAAGACAG TAAAAAAAGGAAGGAGAAACGGGAAGAGCCAGAGCAAAAGAG G G G A A G G A GAGGGGAAAAGGGAGCAAACCAACACGGAACCTA G G G G G G G G A A G A A G A A A G G GAAA A A A A A A G GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G$ A A A A A A A A G GAACAGGGGAGGAAGACGGGGGGAAGBAAGAAA A A A A G GAGAAGGAAAAGAACAGCCAAGGAAGGGGGAAAATAA C C G GAAAACCAGGGGGGGAAGGGGAAAGCCAAAGAAGGAAGA CA GAAA A ATTGGAGAGGAAACCAGAAGGAAAAGGGGACAGAA G G A A G G G G C C G G G G G G G G G G G G C C A A A A G G A A G A A A G G A A G G G G A A G G G G C C G G A A G G A A GAGGGGAGGAGGGAC CAA G G G A A A CCGAGGAAAAGGGGGGAACCAAGGAAAAGGGAAAAAAACAGA G GAGGAGAAAACGAAAGGAAGAAGAAAGGGGGAAAAAAGGAG G GAGAACCAGAAGGGAGAAGACAGGGAAACGGAGGGGGACBA G G G G A A A A A A G G G G A A A A G GAA A G G GA GA GAAA G GACCCC CA $A C A G A G G G A G A G A G A G G A G G A A A G A A G G G A G A A A G G G G A G A G$ G GAGAAAGGGAGGCAGAAAAGGAGGGGGCCAGGGGGAAGGCC G GCCAGAAGGGGCCAATTAAAACCAAAGGAAAGAAGAGAAAA A A G GAGGGGGCCAAAGGAGGAGGGGAAGAAGGAAAAAAAGCC C C G G G G A A G G A A G G G G A A A A A A G G C C G G A A A A A A A A C G G G G A G G G GCCAA G G C C A A A G G G G G C C A A C C G G G G A A G G A G G G G G A G A G A G G GCC C G G A A G G G A G G G A A A A G G G A C C G A A A A A G G G G A G A GCCGGAAGGAAGACAAGAAAGGGAAACGAAGAGAGAGAACC G GAGGGCCAAAAACGGAAAAAGGGAACAAGAGAGAGGGAACC TACAAACCCCGGGGGACCGGAAAGCCAGGAGAGGGGAGAACA A A A A A A A GCACCGGAAAGGAGGAAAAGGAAAACCCCGAGAAG G G GCAGACGAGGACGAGAGGGGAAGGGGGGAAAAGGACAAGA C C G G G G G G A GAACACAAAACAAGGAAAGAAAGGAGGAGAGAG CAACGAAAGAGGGAGAGGGAAAAAGGAAGGAAGAGGAGCCGG CACCAAAGGGGGGGGGAAAAGAAGAGAAAACCGAACAAGGGA G G A A G G G G G A G G G G C C G G T T G G A A A A G G G G G G A A A A G G A A G G G GAA A G G G G G G GAACCAAGGAAGGGAAAAGAAAAGGAGGCGG GACCAAAGAAGGAGAGAGAAGGGGGGGGAAAAGGAGAAAAAA G GCCAGGACAGGAAAAAGGAGGACCCGGGGGGAGAGAAAAAG A GAAA A GAACAAGAAGAAAGGAAGCCAGGGGGAAGGCCAGCAA AAAGGGGCCCAGAGGAAAAAGACGGGGGGAGGAGGGGAAGAG A GAG $A \operatorname{GA} A A G G G G G A G G G A G A A G G G G G A A A A G G A G G C G A C A A G$ GAGGCAAGAGGGGAGGAAAGAAGGAAAGAGAAAGAGACGGAA AAAACCGGGAAAAAGGAAAAAAGAGGGGGGAAGAAAAGACAG TATTGCGGGAACGGGGAAAAGGAAGGAAATAGGGGGAGAGGG A A G G G G G G A A G G G G G G G GC C A G A A GAGAAACC G GA GA G G G G A
 GAGAGGAAGAGACCGGGAAGAAAAAGAAGGAGGGAAAAAAAG $A G C C G G G G A A G A G A A G G G G G A A G G G G A G A G A C A A A A G G G A A A$
 AAAGAAGGGGGGAACCACGGGGAAAAGGAAGGCCCCGGAGAA A G G A G A G G GAGGC CAAAAAAGAAGGAAGGAAAAGACA GAAGGG C CACAA $A \operatorname{A} A C G G A A G G G G G G G G G G G A C C G G C C A A A A G G C C G G$ A A G GAAGGGGCAACGGAAAAGAAGAAGAGAGGAACAAAGGCC C C G G A A C C A A G A C A G G A A G GAA $A$ A A GAA G GAA A A G GA G G G G A A G GAACAGGGAGGCCGGAAAAGGAGGAAGAGAAGAGGGACAAA $C \subset G G A G G G A G G A C C C C G A A A G G G G A G A A G G A A G A C C G B A C A G$ $A \subset A G A T A A A A G A A A A C G G A A A A G A C A A G A A A G G G C C A T G G A G$ G GAGGAAGAGAGGGAAAGACGAGGCCAGGAAAAATTAAAAAA $G G A A G G A A A G A A G A A A G A A A A A A G G A A A A A A A G G A A A C C C C C$ AAGACCAAAAAAAGAAGAGGAAGACAAAGGAAACAGGGAAAA

G G G GAACAAAGAAAAAGAAGAACCCCCAGGGGGGGGAAAAGA
 AC GAAAGGGGAGAAGGGGAAGAGGGAGACAAGAAGGAAAAGG AA G GAAAAAGGAACAAAAAGAAAGCAAAAAAAGGAAGAACAG G GAAAGACAAAGGAGAAGCAGAAAGGGGGGGGCCAGACAGBA A G GA $\operatorname{G} A \mathrm{~A} A C A A G A A A A A A G A A A G G A A G A G G A A C X A C G G G G G G$ G A T T G G G G G GC C A G A G G A A A C C G G G G G A A A G G G G A G G G A G A $G$ $A G C C G G G G C A A A A A A A G A G G G A C G G G G A A A G A A G G A G G A G A A$ G G A G A G A A G G G G G G G GCC G G A A A GACGACAAAAATTGACAAC AAAACACCGAGGGAAGGAAAGATAAGAGGGAAGGGGGGGGGG C C A A G G G G G G G G G G A A A A G GAACCCCAAAAAAAAAAAAGGGG G GAACCAAGGAAGGGGAAAACCGGAAAAAAAAAAGBAAAACC A A G G G G G G A A G G A A G G G G G G A A G G G G A A G G G G A A A A C CAA A A G G G G G G G G C C A A G G G G A A A A G G A A G G G G A A G G A A G G A A G G A A G GAAAAGGAAAAGGAAGGGGAAGGGGACAGGGAAAAGGAAAA G G G GAA A A A A A C G G G G GAGAAGAGAACCAAAAGGGGGGTTGG GGAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGGAA G GAA A G G GCCAAGGGGAAAATXGGAAGGAAGAAGGACAGGCA AAAAGAGGAAAGGGGGCACCGACAAAGAAGACAAGGC
C G A A G G G A A A A A A C C G G G G G G G G G G A A A A A G G A A A A A A A A G G GAGGACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGGA G GAAGGGGAAGGAAAATTAAAAAGAGAAAGAAGGAAAAA GAA A A A A A A A G G G A A GATTACCCGGAGAGGACCCAGGGAAGAAAA A G G GAACACAGACCAAGGAACAAAGAAAGGAGGAAGAAAA GA $A G C C A G G A A A G G A A G G G A G G A G G A A G G G A G A G G A A A G G A G G G$ A GAGAGGACCCCCCGGAAGGAAAGGGAAGGAAGGAAGGAAGG AAAAGGGGGGGGAGCCGAGAGGCCGGGGGGGGAGAGGGAAAA AACCAAGGGGGAAGCCAAAAAAGGACGGAAGAGAAGGAAACC G GAAAAGGAAAAGAAACAGGAGAAGGAAAACCGGAAGAAACAC AACCCAACTTGGAGAAAGAAGGAACCAAGGAAGGGAGGAGAA
 GAGAAAGAAGGAAGAAGAGGGGAGAGCCGGGGAAGGGGAACC A A G GAAGGGGAAAAAAAAAAAAGGAAGAAGGACCAGAAAAAG GAACGGGAGAGAAAACCCAGGAGGAAAGAAAAAAGGGGAAAC G GACAAAAGGAGGGAAGGGGAAAGGAGAGGAAGGBAGAAGGG AAAAAGAGGACCAGAAGGAGAAAGAGAGCCCAGGGGGAGAGG A G G GAGAGAAGGGGAGAAAACAGGCCGGAACGAGATAGGGAA A A A A G GAA A GA GAAAGGAAGGAGAGAGAAGACAGGGGGAAGA G GAGAGAGGGAAACAGGACAGGAAGGGGAAAAAAGGCABABA GA $\operatorname{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A C \subset \subset A A A A A G A A A A A G G G G G G G G G G G G G G A G G G$ C C G G G G G G G GAA A G GAAACATAAAGGAGGGAGAACCAA GAAA GGCAGAACAAGAAAGGAAAAAAAAAAAAGGGGTTAAAAAAAA AAGGGAGAGACAAAAAGATAGAGGGGAAGGAACAGGAAAAAA A A A A G GAA A G A GAGAAGGGGAAAAAAGGAGAGAA GAACAAAG $A \subset A G G G G A G G A A G G A A C G A A C C A A G G G G A A G G A A A A G A A A A A$ A A C C G A G G G G G A A G G A G G A T A C G G G G A A C C C A T A A GA G G G G G $A G G G A A A A G G G G A G G G G A G G A G G G G G A A A A A A A A A G A G A G A G$ GAAGCCAGAGAGAGAGGGCAAGAACCGGGAGGAAAGGGAGAC GAAAGGGAAAAAGAACACAGAGGAAGAAAAGAAGAAAA G GAAA A A G G A A A A G G A A G G G G A A G G A A C C A G CA $\mathcal{A} G G G G G A A A G A G G G$ A A A G G GAA $A \operatorname{G} \operatorname{A} A A A G A A A A G G G G A A G G C C G G A A A A A G G G G G G G$ G GAGGGGGGAGGACAAAGAGCACAAAAACAAGAGAGAAGAAA A G G A G GCCAA G G G G G G A A A A A A C C A A G GAGAAGGGGACACAG A GAAAAGGAAGAGGGGAAAAAAGGGGAAGGGACCGGAGGGCC $A C A A C C C C C C A A G G G A G A G G G A G G C A A A A A G A A G A G G A A G A G$ G GCCAAGAGGCAAGGGAACCCCAGGGAAACGGAGGGAGAAAA C CAAACAGGGAAAAAAAGGGGAAAAAAAAGAAAGATAAAAGG $G G A G G A A G A C G A A G A G C C G G A G G G C C G G A G G G A A G G A A A A G A$ G GAGGGAAGGGGGGGGAAGGACGGACAAGGAGGGAAGAAAGA

A G G GAGAGAAGGAGAGGAGAGAAAAAAGAAAGGAAGGGAAAA
 GAGAGCGGAGGGAAGGGAAGGGCCAAAAAAGGGGAAAGAGAG GACCGGAAGAAAACCGGGAAGGAAGGGGGGCCGAGCGAAGGG AAAGGGAAAAGAGGGACCGAAGGGAGGGACAAGGGACAAACAC A A A A GACAACGAAAAGGGGGCCACGGAAGGGGGGACAAGGGG A A A A G A A G A G G A A G GAAAA $A \operatorname{AGGGAAAAAGGAAGGAAGGGGGG}$ ACAAGGGGAAAGAGAGAAGGAAAGAGGGGGAGAAAACAAAAG GAACAGAAAAAGAGGGCAAGCCGGAGCAAAGAAAGGAAGGGA A G GAGAACGGAAGGAGGGACAAAAGGAGGGGGAAGGAAGAAA G GAGGGAAATAGACCCGGACAAGAGGGGGGAAGGGGAGGGGG AA $A G A A C C A G G G G G A A G G A A G G A A A A G G G G A A C A A G A G A G A A$ AAAGCCGGAGAAGGAAGAAAAGGGGGCCAAAAAGGAAAACBG GAGGAAGGACGAGGGAAAGGGGGGAGAAAGGGGGAAGGAGAA GAAGCAACAAAGGGGGGGGAGAGGGGCCACAAGAGAAGATAG A GAACCAAGGGGGAGGCAGAAGGAGGAAAGAACCAGAAAAAG
 G G G G G G A A G G G G A A G G G G G G G G G G G G A A A A A A A A A A A A G G A A $C \subset G G G G A A A A G G G G A A G G A A A G A G A G A A A A A G G A A A A A A G G G$
 $C \subset G G G A A G G G A A A A G A A A C C A A G G G A A C G A G G A G A G A G A A G G$ AGCCCACCCCAAAAGGAGAGCCCCACGGAGGGCACAAAGCAA A GAGAACCAGAGAAAAAAAGACCCGGAAAAAAAGGAGGCCCC GAGAAAAGGAACGGGGAAAAGAAGAGGGGAGAACAGAGAACA A GAGAA $A \operatorname{GA} A G A C C G G C C T A G G C C A A A A G G G G A A A G A G A A G G$ $G G C C G A G G G G G G A A G A A G A A A A A G A G A A A G A A G A A A C A G G G G$ AAGGAAAAGGAGCCCCAAAAAAAAAAGGAAAAAACCGGGGGG G G G G G G A A A A A A G G G G G G G G G G A A A A G G A A A A G G A A A A A A G A A GAGAAGGCCAAGGGGAAGGAAAAGGCCCCAAGGAAGGAAAA $G G C C A G G G A A G A G G A A A G C A A A G G A A G A A A A G A G G A G G C C G A$ AAGGGGCCGACCACCCGAAAAAAAGACCAGAAGACCAAGGCC G G G GAA A GTTAAGGAGGGGGAAGGAAAGAAAGGAAACCGAGA AAAACCACCCGAGGAGGGGGGGCCAAAACCAAGGAAAAGGGG G G A A A A G G G G A TGGGGAGGAAAAAAAAACCAAGAACAGAAGA AA $A G G G G G G G A A A A G G A A A A C C G A A G C A G A C C G A G G G A G G G G$ ACCCCCAGAAAAAAAAAAACAAAAAAAAGGGGAAGAGGAGGA A GAGAACACCAGAGAGAGAGAGCCAAGGAAAAAAGGGGCCGG G G G G G G A A A A G G G G G G A A G G G G G G G GC C G GAAAAA G G G G G G G A A G G G G A A G G G G G G A A A A A A G G A A C C C CAAGGGGAAAA G GAA G GAA A G G G A A A A C CAAA A $A \operatorname{A} A A A G G G G G G C C A A G G G G G A A A A A$ AAGGAAAACCGGGGAAGGCCGGAAGGGGGGAAAAGAAAAAGG A ATTGGGGAACCGGAAAAAAAAAAGGAAAAGGAAAAGGCCGG G GAAAACCAAAACCGGGGAAAACCAAAAGGGGGGAAAGAGAA G G G G A A A A A G G G G G G A G G A GAGGGAAAAAAGGTTA GA GA G G A G G G G G GA G A A GAGGAAAGCACCGAGAAGAACCGAGAAAAGGC A CAAACAGGGAAGAAAGGCCGGTAGGTTCCAAACACAAAGEG A GCCCCAGAAAGGACCAGCAAAGGGAGGAAGGGGGAAAGGAA G GACGGGGGGGGGGGGGGAGGGAAGGAACCAAAAGGAAAGAA G GAGAAAACCAAAAGGCGGGGAGAGACCGAGGCCTTGAAAAA $C \subset G G A A A G G G A G A G A G G A A A G G A A G G A A A A G G C C G G G G A G A A$ A A A A G GAA $A \operatorname{GA} A A A A G G C G G A A G G G G G G G G G G A A A A A A G G A A$ C CAGCAAGAAAGGAGGGACAAAAAAAAAGGGGGAGGAAACGG A A G G G G A A G GCCA G A A A G A A GAGGCCAAGGGGCCCAGGGGGG AAGGCCGGGGGGAAAAGGACAGAAGAGGCAGGAAAAGAAAGA G G A A G G G G A A A A G G G G G G G G G G G G G G G G G G G A G G A G A A G G G G $A A C C G G A G G G A G G A G G A A G G A A G A G A G A G G G G G G G A A G A A G G$ GGGGACAAGACCGGCCAGAAAGAGAAGAGAGGGGGGAAAGAA $G G A G C C A A G G G G A C G A A C C C A A A C A G C C G G C C A A A A A A G G A G$ GAAGAGAAGGAAGGACGAAAACGGGGGGAGAAGATTGGGACC

A G G G G G G A C C G G GA A G G G G A G GCAGGCCCCCCAAAGGGACAC CCGGCCAAGAAGCCGGAAGGGGGGAAAAAAGGGGGAAGAGAA G G GAGGGGAAAAGGAGAAAACCAAAAGGGAGGGAAAGGAGAA A A G G G GAAAAAAGGGGGGGGAAGGAAAGAGAAAAGGGAAGAG GGCCGGAAAGCCCACCAAGGGGTAAAGAAGAGAAGGAAGGGG
 G GAACCAGAAAAAGAAAAGGAAGAGCGGAAGGAGGAGAAAGA GAAAAAAAGGAAAAAAAAGGAAAAGGAGAGATGGGGGACAAA GAGGCCAAAAAAACAAAAAGTAAAGAAAAGCCGGAAACGGCC A A A A A A A A A A G G G GAAGAGGCAACGGAAACAGGAAGAAG GT T A G G GAAA $A$ A A A G G GACCAGGGGGGGAACCAAGGGAGGGGAGAA G G G G G GAGGGACTTAATTAAAAAAGGCCGGAAGGAACCAGAA C C A A G G G G T T C C G G G G A A G GAAAAAA A G GAAGGCCGGAAAAAA A A G G G G A A G G A A A A G G A A G G G G C C G GAGGAGGGGGGAAAAAA
 G G GACCCCAGACAGGAAGGAAGGAGAGGAGAGCCGGGAAAAA A A GAGGACCAAGCCGAAAGAGGGGAAAACCGGAAGACAAAAA A A G G G A A G A A G A G G G G G A A A A G G G G G G GAACAG GA G G GAA $A$ A A G A A G G G G G G G G G G A G A C G G A G G G G G A A A G CA $\mathcal{A} G A A G$
G G G G GCCAGAAGGGAAGGGAGGGGGAGAGAAAAGGAAAAGG AAAACCGGGGGGGGACGGGACAGGAGGGACAGGAGAGAAGGG AAAACCAATTGAAAAAAAGGGGGGAGAAGGACGAAAGAGGAA G GCCGAGAAAGAAGCCAAATAGAACCGAAGAAAAGGGGAGGG A A G G G AC G A G A A A GACCAGAAAGAAAAGAGGGGGGAAAAAAA
 G GCCCAGGGGGGCCGGCAGACCGGGAGGAGAAGGAAGGAAGG A G G G G GACGAAACCAAGAAAACAAGAAACACCGGAAGAAAAG G GCAAATTGGAGAGGAAGCCAGAAAAGACCAAGGAGAAGGGG C C A A G G A A G G G GAA A A A A G G G G G G G A G G G G GAA G G GAC G G A A AGGAAAGGCACCAACCGGAAGAGAGAAGAAGAGAAAAGAGAA AAAGAAGGGCGGAACCAAAAAAGGGGCCGAAAGGGAAAAAAG AA $\operatorname{A} A A A A G G A A A G G G G G A G G G G G G A G G A A A A G A A G G A A A A G G$

 C CAA $A \operatorname{GAA} A G A A G G G G A G A A G A G A G G G G G G A A A G A G G G A G G A$
 A GCA A GAGGACAGGATGGCCAAGGGAAAAAGAAGAAGGAAGA G G G G G GCCCC G GAA AGGAAGAGAAGGCCGGAAAAAGGGACA G A G G G A G G G G G A G G G G G A A G GA G A A A A A A C C C C A A G G A A A G G G G G TAAAAGAAGAAGGGCAAGGAAAGAGAAAAAAAGGGGAGAA GAGGACGGGAAGGAGAGAAAAAAGAACCGAGGGACCCAGGCC C C G G A A A $\mathcal{A} A G G G A A G G G G G G G G A G G G A G A G G G G G G G G G A G G A$ G GAACCAGAGGAGGGAGGAAGAGGGAGGGACCGGGGAAGAAA A GAGAGGAGGGAAAGAAAGGAGAAGGAGAAAGACGAAAAA GA G GAAAACCGGGCAAAAAGGAAGGAGGAAGGAAAGAGAGAGAG A G GA $\operatorname{A} G A G A G G G A A G G A A G G A A G G C C A G G G A A A A A A A A C C A A$ GAAAGGACACGGAAAGTTAACCGGCAAGGGGGAAAAAGCAAA G GCCGGAAAAGGGGCCAAGGAAGGGGAAAAAAGGAAAAGGAG A GAA $A \operatorname{GCCA} A A A A G A A G G A A G G G G G G A A A C G G G G A A A G G A G G$ A G T A G A A A $\mathcal{A} G G G G G G A G G G G C C A A A A A A A A G A A G A C A A A C T T$ G G G GAACCCCACGGAGGGAAAGAAGGGGAAGAGGGGAGCCCC A A G G A A A GAA $A \operatorname{AGGAGGGGGAAAGGCAGAAAAAAAGAAATAAG}$
 G GAGAACAGGGGAAAAAACCGGACAGAAAGCCAAGGCCGAAA A A C C G GAAAAAAAGAGAGGGGGGAGGAAAAAGAA GAAA GAAA A A A A G G G A A C C C A G C C G G T T A A G G GAGAGGCCAAAAAA G CAA AA $\mathrm{A} G \subset C A A G G C C G G G G A A G G A A G G A G A A G A G A A G A G A G A G A G$ AAAAGGAACCGAACGGACGAGGGAAGAAAGAGAAAGTXAGAC GAAGGAGGACTTCCGGCCAAAGAGAGGGGAAGAAGGAGAGAG

G GAAAAAGGCCAGGAAGAACGGGGGGGGCAAAAAGGAGAAGG
 AAAGAAGACCAAAAAGAGAAAACCCCAAAGGGGGAAAGAGAG G G G GCCGGAAGGGGCAAAGGAAAGAGAAAACCGAGGAAGAAA GAGGGGCAAAAGGGAAAAGGGGGGCCGAGGAAGGAAAGCCGG C C G GAGAGCCAGAAGGAAACAACAGGGAGACCACAAAGACAA A A A A A A G A GAGGAAAAGAAGGACCGGGGGGAAAAGGAGAACA AGGGAAGAGAACCCAAGGAACAAAAAAAAAAAAACCGGGGGG A A G G G G A A A A G GCC $C$ GAGGGGTAACAGCCAAAAAAGGGGAAAG A A G G G GAAAAGGGGGGGGAAAAAAAATTCCAAGGCCAAGAAA G G A A A A A A G G G G G G G G G G G G G G G GCC $C$ G G G G A A G A A G A C G A A A A A A C A A A A A A A GAGAAAAAAAAAAAGAGGAGGAAATAGAGAA C CAATTGGAAACGAAAGGGGGAAAGGAGGAGGCAA GAGAGAG G G A A G A A A GAAACCGGGGAAAAGGAAAAGGAAAGAAACGGCC AAAAAAGGAAAAGGAAGAGGGAGAAGAGCCAAGGGGCCAAAA AAAAGGGGGGGGGGCCAAAAAAAACCGGAACGCAAAAGAAGG A A A G G GA GAA $A \operatorname{A}$ GAGAAAGAAGAAACCGAAGCAGGGAGACAAC GAGAGAGAAAGGGGGAAACCAAGAAAAAGGAAAGAACCACAA GAGAAAGGCAGGGGGAGAAACCAAAGGGAAGAGGCAAAGGGG A GCGCCGGGCGCACAAACAGCCGGCGGGAGAAACCCAAGAAA $C \subset A A A A G G A A C C G G G G A A C A G A G A G G A G A G A G G G A A A A A A G A$ GACCGGAAAAAAAAAAAAAAAAGAGGAGACGGGGACCCCCGG
 A G G A A G G G A G A A G G A A G G A A A A A G G A A A A A G G A A G G A G G G G G
 A GAAAAAAGGAACCGGGGAAGGAGGGCCAAAACCGGAAAAAG GAGAAAGAAAGACAGAGAAGCAACCCGAGGGAAAGGAAAAAA $G G A A A G A A A G G A A A G A G G A A A A A A C C G C G G A C G G C C A G A A G G$ AA $A \operatorname{GA} A A A A A G A A A A A A G G G A G A A A G A A A G A G G G A G A A A A A A$ A G G G G A G G G G CAC C C A G G G A GACCAGGAGGGGGGGGCA G G G G A G G G G G C C T T A G A A A G C A A G A A A A A A A A A A C C G G G G A A A A G G AAAAGGGGAAGGAAGAGGAAGAAAGGCCGAAGGACAAGAAAC GAGGGGCCAAGGAGAGAAAACCAGACGGGGGGGAAAAAAACC AC G G G G A G A A A A A G A G A A G G GAGACGACACGGAGCCAGAAGG $G G C C A A C C G G A A A A G G G G A A A A A A C C A A G A A G C C G A A A A A A G$ A G G A A G A A G A G G A G G G A G A A A A G G A A G G G G A C A A G A A C G A G A A A G GAAAAGGCCGAGGAAGGAAAATAGAGGAGGGCCGGGGAA AA $A G G G A A A A G G G G G G A A C C G G G G A A A G G G C A A A A A G G A A A G$ $A G C C G A G A A G C C G G A G G G G A A G A G A A G A G G A A A A C C A A G G G G$ A ACC $C$ G G G G G A A A A G GAGGAGAAAAAAAAAAAAGAACAAGAA AAAGGAGGCCGAGACCAGAATAGGACGGAAAGCCGGAAAAAA C C A A A A $\mathcal{A} G G G G G G G G G G G G G G G A A A A G G G G G G C C G G A A G G C C$ AAAACCAAAAAACCAAGGGGGAGGAAGGAAGGCCCCAAAAAG
 A A A A A A G G A A A A A G C A G G G G G A GAGACAAGGGAAGAAACCGG A ACCGGGAACGGTTTTAGTTACAGAAGGAAACCAAAGAAAAA GGCCAAAAGGAAAAGGCCGGAAGGGGAGACCCAAGAAAGGGG G G G GCA C G A A C C G G G G G G A A G G G G G G A A C C G G G G A G A A A A A $G$ AAAAAACCCCAAGGAAGGAAGGAACCAAAAGGAACCGGAGAA
 G G G GAAAAGGGGAAAAACCCGGGGGAACGGAAACGAAAAGAG G G G G GCGGGGAGAAGGAACCACGGAGGGACGGAAGACCAAGA A A A G A A A G A G G G G A A G CAA A GAGGCAGAGGAAAACCA GAGGG ACAGCCGAAAAAAAGAGAAGAAGGGGAGCCAGGAAGACAAGG G G GAAAAAAGAAGAGACAAAGGAGAAGGAGCAAAGAAAGGGG A G G A A T G G G G A A G G A G A A G A G G G G G G C C A G A CAA A A G A A G G A A A GAAAAATTGGCCAGACAGAAGAGGAAAGAGAAAGABCCAG A A G A G G G G G G C C A A A A C C G G A A G G A A G A G G G G G G G G G G A G A G G G G G A A A A G G GAGGAGAAGGGAGAGGGAAAGGAGGGAAAAAA

G G GAGCAACCAAAGAAAGAAAAGGAAGGGAGGAAAGAAGAAG ATGAAGAAGGAAGGAAAAGGAGAAAACAGGAGGACCGGAGAA A A A A A A C C C C G GCCGGGGGAAAAGAGGGAGGACCGAAGAA G G
 GGCCCCGGGGAAAACCAGACGAGAGGCCGGAAGAAAGGGGGG A A A A G G A A A A G G G G G G G G A A C C G G G G A A G A A A A G A G A A A G G G G GAA $A$ A A A GAGGGAAAAAAAAAAAGGAGGGAAAAAAAAAAGGG G G G GACGAAAAGGGAAGAGAAAGGGGGACCGGAAAGCCAAGB G GAAAAAAAACCGGAAGGGGGGGGCCGAAACCGGAAAAAAGA G G G GAGAAGGGAAAGGGGGGAAAAGGAAGGGGGAAAGAGGCC T TA $A G A A A G G A A A A A G A A A G G G A A A G G G A G A G G G G A C C A A G A$ G GAAGGCCGCGGCCGACGCCAGAGGGCAGGAAGGGGCCAGAA
 A A GACCAGGAACA GAAGGAAAACACAAGGGAAAAGGGGGGGAA G GAGCCAAAAGAAAAAAAGGAAGGAAAGGAGGAGCCGGAGGA GAGAGAAAAAAAGGGAGGAAAGAAGGCCAGGGAAGACCAAGA G G G GCCAAGGGGGGCCAGAAACAAAGGAGGAAGGAAGGAGAA GAGAAAAAAGGGAGAAGGGGAGAGGGAAGGGGAGAAAAAACA AGGAGAGAAAGGAGGAGGCAAAGGAACCCCACGAAGG1
GCCGGAGCACAGGAAAAAAAAAAGGCCGGAGAAGGAAAACG AAAGCAGGACAGAGAAGGAAAAGGAAAAAAACGGAACCAGGG G GAAGGCCAAAAAAGGAGGGGGAAAACCGAAAGGAAGAAAGA G G GA GACCGGGGAAAGCCAAAAGAAGAACCGGGAAAAGCCAT GC GAGAAAGAGGGGGGCCAAGAAAAAGACGGGCAAAGGACCC G G A A G GA G GACCAAAGGAAGGAAGCCGAAGCAGAACGAAGAG A A TAGAGAAAGGGGGGCCAAGGGAGGGAGAGGGGGGAAAGGG G GAGGAAACAAGGACCACCCAGGAAGACGGGAGAGGGGGGGG AAAAAAGGAGGGTAGGGGAACCAAAAGAGACAAGGGAAAAAG AA GAAACCATAGACGGAAAGAAGGGAAAAAGGCCAGGACCAA AAAGGGCCGGAGGGAGAAGGAAAGGAGAGAAGGGGAAAAAAA G G G G G GAGGGGGGGCACAAGGAAAAAAAAAGGGGAACAAGAG AGCAACCCAACCAAAAAAGAGGCCGAGGAGAGCCAGAAGAGG G G GAGAGGAAACAAGGGGAAAAGGGGAAAGAGAACCAGAAGA
 GACAAGGGGGAAGGAACCCCAAGACCGAGGAGAACCAAGGAG GACCGAGGAAGGAAGGAAGGAGGGAAAAGAGAAAGAAAAAGAG G GAA A A GAAAGAGGGGGGCCAAAGAGAAAAAAGGGGGGGGGG A A G GAAAA A GAAAAAAGGAAGGGGGGGGGGGGAAGGAACCCC A A GAAAAA $A \operatorname{A} A A A A G C C A A A A C G G G G A A G A G G G A G G G G G G A C$ A GCCACGCGACAAGAGGGGAGAAGAGGAGGAAAGAAAGAAAG A GAGAGGAGAGAGGGAGGCCACAGGGGGAGAGGGAAAAAACC
 C CA $A$ A $\operatorname{G} G \operatorname{G} A A A G A G G G C A G G G G A G C A A G A A G G G A G G G G G G G G$ G GCCAAGGGGAACACAGAGGAAGAAGAAGGGGAGAGAGCCBA $A G A C A G A A G A G A A A A G A A A A G G A A A G G A G A A C A C G A A G A A A A$ GAGGAGGAGGAAAAGAGGGGGGGGGAACACACGAGGACAGAAA G GAA $\operatorname{G} G A A A A C C C A A G A A A G A A A G A A A A A A A A G G G G G G G G G G$ GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGACAGCACAAA G GAACCGGGAGGGGAAAAAAAGAGACCCAAAAGGAGGATACC GACCAGCCAGGGGGGGAAAAGGCCAAGGGAAGACGAGGAACAC C CA $A \operatorname{GGC} C A A G G G G G G G G G G C C G G A A G G G G G G A A G G A A A A G G$ GAAGGGGGAAGGCCAAGGAGAGGGGGGGAAGAGAACGGTXAA A G G G A A A A CAA $A \operatorname{AGCC} G G G G C C A G G G G G C A G G C A G G A C A A A G$ GGAAGGCCGGAAGGAAGGGGAAAAAAAAGGCCGGGGAAGAAA A A G G A C A G GAA A G GAGAGAGAGAGAAGGAAAGAGAGAGAACC G G G G A A A A G G G GACAA $A \operatorname{A} G A A C C G C G A A G A A G G G A A G G G G G C A$ C C G G A A A G G G A G A A G G G GAGCAAGGGAAAAAGAC G GAAGGGGG C C A GAGAAAGAGAGAGACGGGAGAGGGGCCAGGGGGAAAAAA A A GAGAGGAGGGGGAAAAGGGAAGAGGGAGGGAAGGAAAAAA

A GAAGGCCCCCCGGGGACAAAGGGGGAAAAAAGGGGGAGGGG GACCAAAAACAAAGAAAGAGCAGGAAGGAGGGGGAAGAAAGB G G A A G G C C A A G G A A A A TA G GAGCACACAAGGGAAAAAA GAA G G G GAAAGGGAGGAAAGAAGAAGAGGGGAGGGGGGAAAAAAAC A G GAA A CA A A A G G G G G G GA G G C G GAGGGGGAGGGGGAGAAAA GAGGGGAAGAAAGGGGAAAGAGGAGGAAAAGGGGCAGAAGAA
 C C C G G GAGAGAGCCAACCAGGGAGGAAAATGGAAGGGGAGAA A A G G A A A A C C G G G GAC $\mathcal{A} A \operatorname{A} G A A G G G A G G A A A A A G G G A A G G C C$ GAGAAGCCAGAGAGACGGGACAAGAACAAGAAAAAAAAAAGG
 G G G G G G G G GACCAACCGGGGCCGGGGAAAAGAAACCAAGGAA A A G G A C G GCCAAAAGACACCGGGGGGGGGGGGAAAGGAAAGG C C G A G A C C A A G G G G G G G G A A A A A A A A A A A A A A A A G GCCACCC AACCCAAGCAGGGGAAGAGGGGAGCCCCCCGAAGAAAGAAAG AA $A \subset G G A A A G C A G A A G G G A G C C A A G G A A G G A C A G A A A C G G G G$
 G G A A A A A A G G G G A A G G G GAA $A \operatorname{A} G A A A A G G C C G G G A G G C A A G A G$ C CAAAAACGAAGGGAACAACAGGGAGGAACAACCGAAAAGAG G G G A A G A A G G A A A G C C G A A GA G G G G G A A A A A A G G G G G A G G G A G GAAAAGAAGGGGAGGAAGGACTAGGGGCCGAGGGGGGAAGA GAAAAAGGCAAAAAAAGAAAAGCCAGAGGGGGGGAAGGGGGG A A A G A A T A A G G A GAA $A \operatorname{AGGAAGGAGGAAAGGGAGGGGACAAAA}$ A A G GAGGGAAAACCAAGAGGAAGGGGAAGAGGAAAAGAAAAA A A A A A A A A GAAAGGAAGAAGCAGGAAAGAGGAAAGGGGAGAA A G G GACGGAGGGAAAAAAAAGAAGGGGAGAAGCA GAGAAGAA A G G G A A G A G G C A A G A G G G G G G G G G G G G G G G G G A A $\mathcal{A} A G A G G G G$ A A A G G G A A $\mathcal{A} G G G G G A G G G G G A C A A A C G A G G G A A G A G A A A C A A$ G G A A A A A A G G G A G GAA $A \operatorname{G} G A A A A A A G A A A A A A A G A G A A A G G A A$ GAAGGAGGAAGGCAGAGGAGAAACAAGACAAAGAAAGGGGAC GAAAAAAAGGAAAAAGGGGGAGGAAAAGGAAGAAAGAGAAAC G GAAAAAAGGGGAGGGAAGAAAAGGGAGGGAAAAGACCAAAA
 $G G A A A G G G C A A G G G A A G G G G A A A A A A C C A A A A A A A A G G G G G G$ A G G GCCAGGAGAAGGGAAAAAGAAGGGGGGAGAGACCAGGGA G G A G G A G G A C G G A G G A G A A GAAAA A A A G G A A GAC GA G GAA G G A A GAGGAAGGGGCCAGGAGGGGAAAAGAAAGGGGGGAACAAA GAGAACAGGACCGGCCGGCCAGGAAGCAGAGAGAAAGGAGGA ACAAAGAGAAGACAACGGAGCCAGGAGAAAGGACBGAAAGAG
 GAACGGAGAAAGAAGAGAGGCCAAAACAGGAAAGAGGGAAAG GAAG $A \operatorname{G} \operatorname{A} A G G G A G A G G A G G G G A G G G G A G G C C A A G G G A A B A A C C$ GAAGGAGGAAAGAGGAGGAAAAGAGGGGGAAAGAAACAAA GA A A A A A A G G A G A TA $A \operatorname{GG} \operatorname{GA} A G G A A A A A A A G A G A A G G A A A A G C C C$ A A A A G G A G A G G A C A GAGGGGAGAAAAAAGACAGAGACAAGAG $A G G G A A G G G G A G A A G G A A A G A A C C G G A G G G A G G A A G A G A A A G$ GAGAAGAGGGGGGGGGAAAAAAAAAAAAGAGGAAAAGGAGAA G GAA $A \operatorname{GACA} A A A A A G G C C G G A G G A A G G G A A C A A A C C G G G G A A$ A A A A A A G A A A G G GA $A \operatorname{GAA} A G A A A G G G A G G G A G G A G G G G G G G G$ A A A A A A A A G G A A A A C CAA $A \operatorname{AGGGGGAAAAAACCAACCAAAGGG}$
 A A A A C CAAAAAAAAAACCGGGGGGGGCCAAAAGGAAAAGGGG A A A A A A A A G G A A A A A A A A A A A A G GAA G GAA G G G GAAAA G GA A G GAGAGGGAAGGGGGAGGAACCAGAAAGGAAAAAGGAGGGGG A G A A A A G G G G A G G A G G A A G A A G A G A A A G G A G G G G A A A A G G G G
 CA $A$ A A A $\mathcal{A} G G G A G A A C C A G G A G G A G A A G G G G G G A G G G G G G G C C$ A A C A A G A C G A A G A A GAGGGAGAAAGGAACCAAGBAAAA G G CA $G G A A G A G A A A A A G G G A G G C A A A C C C C A C G C C A A C G A A A G G G G$

G G G A A A A A A A A G G GAA G G G GACGGAAGAGGTAACAGAAGGCC A A G G G GAACCCCGGGGGGAAAAGGGGAGTTAAGGAAAAAA GA $A G G G A C C C G G G G G A G G A A A A G G A A G G C C A A G G A G A A A A G G G G$ GGGGACCCAGACAGACAGAAAAAAGGAAGGAAAAAGACGGGG AAAGGAAGAAAAGGCAAAAAGGGGGGCAGGAAAGAAAAAC GA A A GAAACCGGAGAGAGGGAGTAAGACAGAAGGAAGGGGGGAA
 GAAAGGGAGGCAGGGAAAGAGAGGAAGGCCGCGAGGAACAGA G GCAGAGGAAGGAAAAAGAGAAAGGAAAACAAGGGGGGAAABG G GAAAATAGGGGGGAAGGGGGAGAGGGGAGGGGGAAGGGGGG G GAA A G G G A A G GCAAGAGAAAGGGAGAGACCCGAGAAAGAGG
 G G G GAACCACAGAGAGAGAAGAAGAAAAGAGGAAGGAGAAAG ACGGAAGGAGAGGACAAGGGCCAAAAAGCCCCAAACAACAAA A A A A G G G G A A G A A A A A G G G G G G A A GAAAAAGGAAAAG GAACA GACCACAGCCAAGGCCAAAAAAAGACAGGAGAAGAGATAGAG G G G G A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G G G A A G G A A A A G G C A A A$ G G G A A GAA $A \operatorname{GGG} \mathrm{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G A A A C A A A A A A C C A A G G A G A A A A$ A G A GCCGGGGGAAGAAGGCCAAGGCCGGGGAAAAAAC
CAAAAGGAAGGCCCAGGGAACAAAGAGAGGAAAGGGGGAGG AGCCAGACAACCAGGGCCCCCCAGAAAGAAAAAGAACCAAAA
 A G G GAA A GAAAAAAGGAGCAAAGAGCAGAAGGGGGGAAAGAA G G G G G G G G A T A G G G A A A A A A G G G G A G G G G G G A G G G A A G A A A A $G$ A A G GCCGGAGGAAAGAGGAAGGGGGGCCAGGCAACAGGGGGG AAAACCAAAAGACAGAGAGGGGGGGAAGGGGGGAAGGGAA$G A$

 A A GAGACCAGGAAAGGAAAAAAGGCAGAGGGAACAAGGGGGG G G GACCAGAGCAGGGGGGAAAAGGGAAAGGGAAAGGGGAAAG
 ATACAGGAGAGGGACCGGAACCGGAGGAAAGAGGGGAACCGG CAGGGGGGAAAGGAGGAAAAGGCCGGAAAGCAGGGGAGCCGG GACGCAGGAAAAAAAAGGGAAGAAGGGGGAGAAAGAAGTTGG GAAACCAAAGAGAGGGCCAGAAAAAAAAAAAAAGAGAGAGGA $G G C C G G C G G C G G G A G G A G A A A A G G G G G G G G A A C C A A A A A G A A$ C C G G A G A G A A C C G G G G G G A G G G G G G GAAAA A A A G G G G G C A A T G G G GACAAGAACAAGAGAGGAGAGGAAGCCACAGAGAGAAGA $C \subset A A A G G A G G A G A A G G C C A A C A A G G G A A C G G G C C B A G G C C G G$ C C C C A GAG G G A A A A A G A A A A A C A A A GAA G GAGGG GAA GAC G G AAAACAGAGGGGCAAACCAAGCTACCGAAAAAGAAGCCAAGG GACGAGGAGGGAACAACCAGAGAAAGACACAAGAGGGAAAAC AGGGGAGGAGGGACGGCCACAAGACCGGAAAGACAAAAGAAG AAGGGGGGAAGAACAACCAAAGATAAAGAGAAAAAAGAACAA
 G G C A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} \operatorname{G} A \mathrm{~A} G \mathrm{G} G A A A A C C A G G G G G G G G G G G G A A G A A$ GAGAAAAAGAGGGGGGAAGAGAACAAGGGAAAAAAACAGGTA CAAGAACCGGAAGGAAGGAACCAAGAAGGGGGAAAAAAAACA AA $A$ A $G G C A A T C A G G G A G A A A A A G A A G G A G G A G A A A A T A G G G G$ GAAAGGGGAAAAAGGGAAGACAAACCAGCCAAAACCAAAGGG AAAAGGGGCAATGGGGGACAGAAGAGCCCAAGAGAGAGAAAC AA GAAAAAAACCAAAAAAAGAGAAGAGGAAAACCAAGGGGGAA GAGAAGCCAAGGAAACGAAACCCCAAGGAAAAGGGGAAAAAA G G G G G A A G A A GAGAAAGGCACCAAAAAAACGAGGGGAGGGGG C C G G G GAGCAGGAGAAGAAGGAGAAGAAAACCAAACAAGGGG G GAAGGCCAAAAGGAAGGGGAAAAAAAAGGAAGGAAAACCGG A ATTCCGGAAGGGGAAAAGGGGCCGGGGAAAAGGAACCAGGA A G G GAAAAAGAAAAAGAAAAGAGAGAAGCCCCAAGGGGAAAA G G G G G G A A C CAAAAAATAAGAAAAGACCAGACAAAAGGAAAA

A A G GCAGGAGAAAGGACACCAGAGGGGGGGGGGGAACAGAGA G G A G A G C A A G G G A G G A G G G G G G A A G G A G A A G A C C A A G G G G G A $G G A A A A A C G G C A G G A G G G C C G G A G G A A A A G A A G G G G A G G G G A$ AAGAGGAGACGGAGAGGAGAGGGAGAACAAGGGGGAAAGGGA G GAGAAGGGAAGGAGAGAGGGAAGAAAGACACAAG GAA G GAGA G GAAACGGGGAAAGAAGAGGGGGGAAAACCAACCAAGGCAAA G G A A A A A A GAGGGGGGCCGGCCGACAAGAAAAAAAAGAAAGA A A A A A C G G G G T TGGGGAAGGCCAGAGGAGGCAAAGAAAAA G G G G G A A A G GCCAAAAGGAAAAAAACGGACAGGGCAAAAAGGAA AAAGGAGGAAAAAGCCGGGGGGCCAAGGAAGGCCAAGGAGCC A A G G G GAGGGAAAAAAAAGAAGAGCCGGAAGGGGACAGAGAA A A G G G GA GAGAAGACCAGGGAACGGACCACGAGACAGAAGGG C C G G G A A G A A G G G G C C A A C C G G G G G G G A A A A A A G A G G G A A G G G GAAGGAAGGAGAGAGAGACCCGGGACAAGAACCAAAAAAAA AAGGCCAAATGAACGGAAGAACACAAAAGGGGAGGGCCAGGG
 G GAACAGGAGGACGAAGGCCGGAAGGAAAAGGGGAAAACAAA G G G G A A A A G G A A A A GAGGAAAAAAAAGGGAGGGGGAGA G GA G AAGGGGGAAAAGAGGGGAGAAGAGAAGAGGAAGGGGGAAAAG G G A A A A G G A A G GAA $A \operatorname{GCC} C G C A A A G G A G G A C G G A A A A A A C G G C$ GAGAGAAAAAAAGGCCGGGGACGGAAGAGAAAAAGAGGCCAC G GAGAGCAAGAAGGAGGGAAGGCCCCGGAAAGAAAGAAAGGG G G G A G G A A A A C C G G A A A A A A G G A A G GAGAGGGCAAACAAAAA G A A A A G A G A A T A A A A G G G A A T T A A A A G GAA G GAACCAA A A G G AA G GAAAAGAAACACAGGAGAAAACCACGGAAGAAGGGAGAG A A A A G G G G G G G G G G A A G GAA A G GAGAGGGGAGCAAAA G A A A A G G G GAA A A ACCAACCGGGAAAGGACGGAAAAAAGGGGGGCCAAA C A G G A A G A G A A G G A A G A G G GAGGGCCGGAAAAAGGGAA G G C C G G A A C C A A A A G G G G G G G G G G G G G A A A A C C C C A C A G A G G C C G G G G G GAAAGAACAAAGGGAGGAAGAGGGGAACCGAAGAGAGGA A G A A A G A C A A C C C C G G A G A G G G G G G G A A G G A G G G A A A A G G C C G GAGGGAGAACCAGGGGAGAAAAAGAGGGGGGGAGGAAGAGA A A GAGAAAAACCAGCACAAGGGCAGGAGGGGAAAGGCCAACAC G G A A A G G A A A A A CAAAAACCGAAAAAGGAAACAAA GAA GGGG A A G G A A A G A G A C G A A G A GAA $A \operatorname{AGGGGGGGGGGGGGCAGAAAAA}$ AAAACCGGGCAGAAGGCAGAGGCCAAATAAGAGAGGCAAAGG GAGGAGCCAAGGAGCAAGAGCAGGGAAGGGGGGGGAAAGGCC GAAACCAGCCAAGGACAAGGAAGGAAAAAAAACCGGGAAAAG A A A A A GCAGGAACCCCGGAGCCAAGGGGGGGGCCGGAAGAAA G GAAAAAGACAAGAGGACGAAGAGGGAAACGGAGAAGAGABA A A A A A A A A A A A GCACCAGGGAGAGCCCCGGGAGATAAGAAGA GAGGAGGAAGGGAAGGAGAAGAAGGAGGAAGGGGCCAAAAAA G G G G G G GCAACCAGCCCGAAGGAAGGGGGGAAGGAGGGAGAA GAGAAGAAGGGGGGGAAAGAAAGGAGAGAACCAATTAAGACC C C A A A G G G GAA $A \subset C G G A A A G G A G A G G A A C C G G G A A A C C G G G G$ CAAACCAAAACAGAAAGAGGGGCCAGGAGGCCCCCCCCAGAA A A GAG A GAAACGGGGAGGGGGAAAAGGAAGGAACCGGGGAGGA A A A A A A A A A GAGGACCAAAACCCCAAGGGGGGAAGGAAAACAC AA GAATAAAACCAGAAAAAAGAAAGGAAGGCCGGGGAATAAA A A G G G G G G CA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GACCGGAACCAAGAAGAAAAGAGGGGAG G G G G G G G A A A A A G GCC G GAGACCCAGAAAGAAAAAAAGGGCA T TAGAGAAAAAAAAGGGGGAGGAGAGAGAAAACAGAAA GGGG A A A A G G G G A A A GAA A G G A G A G G G A G G G G G G GA $\mathcal{A} C G A G G A G A A$ GGGGCCGGAAGAGAACAGAAGGAGGAAAGGAAAGAAAGGAAA $A A C C G G G G A A A A G G A A A G A C A A G G G G G G C C A C A A G G A A G G A A$
 GACCCCCCAGGAGAAAACAGAAGGAAAGGAGGGGGGGGAAGAG G GCA G GCCAAACAGAAGGAAGGAAGAGGAGAAGAGGCCBGCC G G GAGGAAGAGGAGCCGGAACAAACCGGAAAGGGAGGAAGCC

G GAAAGAAGGGGGGAGGGAAAAAAGGAAGGAACCGGAAGGGA ACGAA GAGTAAAGGAAAGCCGGAAGAGGCCAACCGGGGAAAA G G G G G G G G A A C C A G G G A G G G G G G G G G A A A A GAAAT T G A A C G G AA $\operatorname{A} G A A G G G A A G C C G G A A A G G G A G G A A A A A A G G A G A G G C C G A$ CAAA $A \operatorname{A} A A A G G G G G A A G G A G G G C C A A C C G G C G G G G G A C G G G A$ A A A A A A A G A A G A A GAAAGCCGGGGGGGGCCGAAGAAAAAAGG G GCCAGGAAGCCGGAAAGAAAAAAGGGGAAGAAGGGAGAAAA CCAGCAGAAGAACAGGGGCAGGAGAAACGAAGGAAAAGAGAA A G GA A A A G G G G GAGGGAAAAAAAGGGGAAAGGAAA GAAAGAG A A GAGAGAGAGGGGGGGGGGAAGAGAGGAAGGGGAAAGACAA AAAAGGAACCCCGAAGCCGGAGGAGGAAGGAAAAAAGGTTAA AA $\operatorname{A} G A A G G G G C C A G A G G G A C A G G A A A G G A A A A G G A G G G A A G G$ AAAAAACCACGGGGGGAGAAAACCCAAAGGGAAGAAAGAGAA G G G G G G A A G GAAC CAAAAAAAAACCCAAGAAACAA GCC G GA A A A G G G GAAAAGGAACCGAGGGGGGGGACAAAGAAGGAAGGGG
 ACAGGGGGGAGGACGGGGGGAAGAAAAAGAAGAGGGAACAAA A G G G A A A T G G G A A A A G GAA $A \operatorname{GGGC} C A A A A A A A A A A G G G G A G G G$ GAAAGGGGGGAGAGGGAAGACAAGGAGACAAGGGACG
GCCAAGGGGAAGGCCGAGAAAGGTAGGAAGACCAAAACAAA GCAACCAAGGGGGATAAAACGGAGAAAAAAAAAAGAGGAGCA G GAAGGGAAACCGGGGAACCAAAGAACCAGAAAAAACCAAAG ACGAGGAAGGCCAACCCAAGAAAGGAGAGAAAAAGGGAAAGA A G G A G A G A C A G GA $A \operatorname{GGGAAGGGGAAGGAGCCCAGGAAAAAAAA}$ A A A A A A A A A G G A A C G GAAAAGGCCGGAACCGAGGGGGGAGAA G G G G G A A G A A G GAA A GAAGAAGGAAAAAGAACGGAAAA GAA G GAGGCCAAGGAAAAGGGGAAGGAAAAAAGGGGGGAAGAAAAA
 G G G G G G G G G GAA $A \operatorname{GAAA} A G G A C G A G A A G A A A A C C A A A A G G A A$ AAAGAAAGAGAGGGGGCACAAAGGAGCAGAAAGGGACAAAAG A A A G A G G G GAGAGGAGGAGAAGAAAAAAAAACAA GACCGGCC A A A A G A A A A A G G G G G G A A A A G GAAAA A G G G A G G GAA G G G G G A G GAGAGAGAAGGGAACCCGGAGAAAAGGGGAAAGAGGGCAAA G G G G A A A A G G G G G G A A C C G G A A G G G G A A A A G G C C G G A A G G G G A A A A A A G G A A A A G GAA A GAA $A \operatorname{AGGGAACCGGGGAAAGAGAGAA}$ G GAAGACCAAAAAAGGAGAGCGTTGGAGGGCAGAAGAGAAAAA
 ACAGGAGAAGGAAAGGGGAAAAGAAGGGAAAACCAAGGGGGA
 G GAA A A G G A C A A GA A $\mathcal{A} G G A G C C G G G G G G G G G G G G A A A A A A C C$ A A A A A A G G G G A A A G A A G G G GCCA $\mathcal{A} G G G G G C C G G G G G G G G A A G A$ G G G G G G A A $\mathcal{G} G \operatorname{GGG} \operatorname{G} \operatorname{G} A A A A A G G G G A A A A G G G G G G A A A A G G A A A A$ G GAAGGGGGGGGGGAAAACCCCGGGGGGGGAAAAAACCAAGG G G G GCCCCAAAAAAGGGGAAGGCCAAGAGGGGAAGAAGAGAG AC GAGGGGAAAACCGGAAAACCGGGGCCAAAAAAAGGGTTGG1 G G G A A GAC G GAGCCCCGGAAGAAGACAAGGGA GACCGGGGGG A GACGAAAGGAAGGAAAGAAGAGAAACCGGAAAAAAAAGGGG GAGGAGACGAGAGGGAAGGGAGAGGAACGGGAACAAAGAGAG
 G G GACCCCAGGGAAGCAGGGGGAGAAAAACGAACGGAAAAAA A A GAAAACGGACACGGGGGAGGGGGGCCGGCCAAAAGGGGAC GAACAAGAAGAAAACCGGGGCCAAGGAACCGGAAAAACAAAA $A C A A A G G A A A G G G G A A G G G G C A G G A A A G G A A A G G G G A A G G G A$ G GAAAGAGAAGGGGGAATGGGGGGAAGAAAGGGGGGAAAAGA G GAGAAAAAGAAAAGGCGAGGAACCAACCGGGGGGAAAAAA CAAGGGAAAAGGGGAGGGAAAAAGAGGAGGAACAGAAGAAAG A A C A G A G G A G A C G G G G A A A A G G A T G G C C G G GACC $\mathcal{A} G A G G G A G$ G G G G A A G A G G G G G G A A G G G G A A G GAACAAGAAGAA GA G CA A A G GAGGGGGAAAGAACCAAAAAGGCCAAGGGACGGACGAGGGC

GAAGAAGGCCAAAAACAAGGAAAAGGGGGAAGAGAAAAAGAG C C T T G GAA $A$ G A A GACAAGAAAAGGCCAAGGCAAGACAAAAGG GACCGGGGAAAAAAGAGGGACAAAAAAGAAAGGGAAAAGGGG GAAAAGAGAAGAAGCCGGAGAACCGAAGAAGGAAAAAGAAAA AGAACCCCCCGGAACCAAAAGGAAAAAGGGGGGGAGAAAAAA ACAGAAAGAAAAAGACAGAACCGGGAAGAAAGCGGGGAAAAAA A G G G G G G G G G G A G G A G A C G G A A A G G G G A A A A A A A A A A A A A A A AAAAGGGGAAGAACGAGGAAGGGGGAGGGGAGGGACAAAGCC CA $\operatorname{G} G A A A G G G A A A A A G A G A A A A A G G G G A G G G A A A C C G B C A G A$ AAAGAAGAGAAAGGCCAGAAAAGGGGGAAGAAGAAGTAAAAG
 A GCAAGCAAGCAGAGAAAGGGGGAAGAAAAGGAGAAGAGAAA
 $G G A A A A A A G G A A A A G G G G A G G G C C A G G G A A G G A A A C G G A G A A$ $C C A G A G A A C C G A G G A G A G G G C A A G A G G G G G G A G G A A A A C A A A$ A GAGAAGGCCGGAAAAGAGGGAAAAGGAGAGGGGGGCAAAAAA
 G GAGGGAGGAACACAGCCAGAAAGGAGAAGCCAGACGGGGGG $G G C G A G C C A G A A G A G G G G A A G G A A G A A G G G G G A A G G A A G A A A$
 G G GACAGACACAGGAAGGAAAAAGGAGGAAACGGGGGGGGGG G GAAAGCCAAGGCAGAGGAAGGAAAGGGAGGAAAGAAGGGGG G GAAAAAAAGGGGGGAAGGGAAAAAACCCAGAAAAAGAAGAG A GAA A G G GAGGGAAGAACCCCCAAAAAAGGAAGGCCGACCAA
 A AAGCCGGGAGAAAAACCGGAACCAAAAGGAGGAGAGAGAGA G GAGAGGGAAGGGGCCCCGGAAACGGGACAAAAGTAAAAAAA G G G GAAAAACAGGAGGACAGCCAGAAAAGAAAGAAAAAAGAC GAAAGGAAAGACAGAAAAGGCCAAGAAGGGGAGGGAAGAGAA
 G G G G G GAGAGAAAGACAGAAGGGGCCAAGGGGGGACCCCCCC GAGGCCAACCAAAAAACGCACAAAGAAAGGAGAGCAAAGGAG $C \subset A A C C G G A A A A A A G G A A G G A A G G A A G G A A A A C C G G A A G G C C$ TAA A GAGGGACCGGCCGAAAAAGAAAGAGGAAGGAAGAGGAG
 G G G G GAGGGGAACAGAGAGGACAAAGAAGGTAGAAGAAGGAA A G G GAAAAAAGGGGGGAAGGAAGGGGAGGACCAAAACCAATAA $A C G G G G A A G A G G G A G A G A A G A G A A G G A A A A A A G A C A G A G G G G$ A G G A T TC CAGCAGGAAGAAACCCCGAGGAGGGGGAGCACCCC G G A A A A A A A A C C CAG GAGAAGAAGATACGAAGGAAGAA GAA G CAAAAACCGGGGAGACGGGGAAGACAAGAGGGGGAAGGAAAA AAACGGACAGGAAGAGACAAGGAAGGCAACAGAAAAGBAAGG G G GAGCGGAAGGGGAAGGCCCCAAGGGAAAAAAAGGAAAAGG $A A G G G G G G A A G G A A G G G G A A A A G G G G A A G G C C G G A A G G A G A A$ G G A A A A G G G G G G G G A A A A C C A G A A G G GAAA A A G G G G G G C C A A A GCAAACCAAAAGGGGAAAAGGCAGGAAAAGAGGGGABAGAC G G G A G A G G A A G A G G A A A A G G C G G G G G A A T T A GA G GAAC G G A A AA GAAAAAAAAGTAACTAGAGAGGAAGGGGAAAACCGGGGAC A GAGAGATAAGAAAGGGGACGGCCAAGGAACAAAGGCCAAAAA T T G GAGGGGAATAACCGGCCAAAAAGGGGGAAGGGGAAAAAA GAAGGGGGGGAAAAAAGAAAGGGACCCAAGAAGGGGGAAAAG A GACGGCGACAGAGGGCAAAAGCAGCAGAAGGGGGAGGAGAA G G TA $A \operatorname{GA} A G A G A A G G G G G A A A G A C G G A G A A G G G G A A G A A A A A$ AAAAGGAGGGACAGAAAAAGCCGGAACCGGGGAAAAAGAGAG GAAAGGGGAAGGAAGGAAAGAAGGAGGGAAGGAACCAGGGGG GAAAGGCAAAAAAAAAGGGGAAGGCCAGAAAACCGBAAGGGG
 A A G G C C A A A A C C C G G G G GAGGGGGCCAAAAAA G G G G G G G G G G G A GAGAAGGAGGGCGAACCACAAAAGGGGGGAGGGGAAAAACC

A A A A A ACCGGCAGAAGGGCCGGAGGAAGGAGAGGAGAAAAGG
 GAGGAAAACCGGAAAAAGAAGAAGAGAAGGACAAAGGGGGGG
 AAACGGGACCAACAGGGACCCCGGAAGAAAGGAGAAAAAAGB A A G G A A A A A G G A G A G G G G G A G G G A G G A A GAAGAACAACAAAA A GCC G A A A G G G G A A A G G A G G A G G G A G G A G A A GCC G A GACAAA C C G G A A A C A A G A A G G A G G GAG GA GA A C C G G G G GA G G G G G G C C
 G G G GAA A A GAGGGGGGGGGGCCGGGGCCGGAAGGGGAAGGGG A A G GAA $A \operatorname{GGG} \operatorname{A} C A G A A A A G G G G G A G G G G A A C C A G G G A A A G C C$
 CAGACAAAAGGGGGAGGGAAAGAGGAGGAAGGACAAGAAAAG A GAA A G G G A A A A G GAAAAAAAACAGCCGGCCAAAAGGCCGGAC G GAAAAAAAGAGGGGAAGGAAGAGGGGGAGAGAAAAGAAGAG GACAGAGGGGAACCAAGGTAGGGGAGGGGAGGA $\operatorname{A} A A G G G G A G G$ G G G GAAA $A$ AAAA GAAAACAAAAGGAAAAAAGAAAGGGAAAA G G $A G G G G A A G G G G G G G A G A G A A A G A A A A G A G G A G G G A G G A A A C C$ A A G GAGAGGGGGGGAGAAGAAAGAACGGACAGGGAGA
AAAAAGGAACAGAAAAAGAAGGGAGAGACAAACAGGAGAAA $C A C C G A G G G G A A G G C C G A C A G G G A G A G A A A G G A A A A G G A G A A$ G GAA A GCCGGAAAAAAGGAGAGAGGGGGAAAAAAAGGAAGAA GAGGAGAGGGAGGGCAGGAAAGAGGGGAAAAGGGAAGAAGAA
 GAGAAAAGAAGAAAAAGGGGGGAGAAACGGGGGGGGAAACAG A A G GA $A \operatorname{GA} A G A C A A G G A G A G G G G G G G A G A A G A G G A G A A G A A A$ $C \subset G G G G A G A G A A A G A A G G A A A G A C G G A G A A A A G G T T G G G G A G$ GAGGAAGGGGAACCGGAAGGAGAGAAAAAGAAGAAGAACAAG G G GACCAAGCAAAAAGGGAGGGACGGAACCCCGGGAGGAAAG CAAGGGGAAGAGGAGGATAAGGAGGGAAAGGAGAAGGGAGAT
 $C C G G A A A G A A G G G A G G A G A G A A A A G G G A C C G C G A G G G G G G A G$ A GCCAGGGGGGGAGCCAGACGGGGAAAGGAAGAAAAGGGGGA C C A G G A C A A A G GAC G GACAACCGGAAGAAAGGGGGAAGAA GA A GAGAGAACCGGAGAGAAGGAAGAGGAGAAGAGAGGGAACAG A G A A A A C A A G G A A A A $\mathcal{A} G G G G G G G A A A G G G G A A G G G G C A A A A G$ A G G GAAAGAAGGCCAAAAGGAAGGCAAACCAGGGAAAGAGAG G G G GCAAGGAAAGAGAAAGGGGGAGACCAAGGAGAGCAAAAC G G G G G G G GCC G A A G GCAAGGGAAAGGAACCAAGGGGAGAAA G $G G C C A A G G G G G G A A G G G G A A A G G G G G A A G G G G G G G G G A A A A A$ A A A A A A A A G G A GAGGGAGAAGGGGGGAACCGGAAGAGACCAA A A $\mathcal{A} G A A G G G G G A G G A A A A G G G G G A G G G G G G G G G G A A G A A G B G$ GGCCAAAAGGGGAAGAAAAAGGGGGAAGACCCGGCCAAAGGG G GAA $A \operatorname{GCA} A G G A G C A G C C A A A G A A A G G G A C G G A A G A G G G G G G$ G G G GCCGGAAGGAGCAGGGAAAGGAGGGCAAAAGGCGATXAC A G G A G G G G G A A A A A A A G G A A A A A A T T G A GA G G G G G G G G G A C C T TAC $\mathrm{C} G \mathrm{G}$ GAAGGGAAGGGGGAAAAACCGAGAGACAGGAGAAAA AAAAAAGGGGAAAGGGGGCCGGAAAAAAAGCCAAGGGGAGAG A GAAA A GAGGCAAAAGGGAAGGGAAAGGAGGAGAGAACACAAA C C C C G GA $\operatorname{ClGGGGGGAAAAAACCAGGAGAGGAACAAGGAGGAG}$ GAAAGAAAGGGGGGGAAGAGAGAAGGCCAGGAGGGGAAAGAA CAGGAACCCAAGCAAGAAAAGGAAAACCGGAGGGCCAACCBG C C A A G A G G A A G A A A A A GAG GA G G G A A A A A A G G G A A G G G C C G G C C G G G G G G A A A A A A G GAA G GAACCCCGGAAGGAAAAAAAAGG A A A A A A GAA A A A G GAAAAAAAGGAGGAGGGGGCCAAAGAGAA G G GAA $A \operatorname{CA} A A A A G A G A A A G A A A A G G G G G C C G G G G G G G A A C B G$ C CAAAAAAAAACCCGGAACACCGATAAGAAAAAAACGGAAGG A G G G A G A A A GAGGGGGAAAGAAGGAGCCGAACACGAAGAGAG $A G G G A A G A C A G A G G G C C A G G G G G A A G A A G A G A G A A A A G G G A A$

G GAAGACCAACCAAGGAAGGGGAAGGAAAAAAGAGGAAAAGA A GAA A G GAGGAAAAGGGACCGGGGCGAAGGGACAGGGGGAGA CCGAGGGAACGAAGCAGACCGGAAGAGAAAGGGGGGAAAAAG A A A A A A A A G GCCAAAGAAGGGAAGAGCCGGGAAAAGAAGAAA G GAA $A \operatorname{A} A A G G G G G A G G G G A G A A G A G G A A A A A A G A A G A A A G G G$ A G GAAA A A C C G GAGGGAAGGAAGGAAAACCGGGGGGAAGGAG GAACAAAGAGAAGGAAGGGAGAGAGGCCGGAAAAAACGAGAA GGGGAGAAAGACCACCCCAAGAGGAGGGGAAAAAGGAAGGAA
 G GAAGGAGAAAGAAGGGAGGGGGGGGGGGGGGTTAAAGACAC G GCCAAAAAGCCGAAAGGGGGGAAGAAGGAAAAAGAAAGGGG
 A GAGAGACGAAGCCAGAAAAAGAAGGGACAAAGGGGAAAAGBG A GAA A G G GCCAAAAAGAGGGCAGGGGAAAGCCGGCCCCCCBG G G G G G G G G G G G G A A A A G G G G G A G G G A A A A G G G G A A G G G G G A A G G GAACGGGAGAGGGAAGGAATCACAAAAAAGGGGGGAAAAA
 A A G G A C G A C C TA G G GAAAAGGGCCGAGACCGAGGCCCCAGGG AA $A G A A G G G G G A G G G G C C G G G G G G G G A A A A A A A A C C G G A C A A$ GAAGAGAAGGAGGGAGAGGGAAAAAAAAGGCCAAGGCAAAGAG G GAAGGAAGGGGGGTACCCCAAGGGGAAGGGGCCCCCCCCAA A GAACAGGAAGGACAAAAAAGGAGTTGGGGGAGGAAGACACC
 A GCCCCGGAACAAAAGGGGGAACCCAGGAGGGGAAGCCBGGA A GAGCCGGAGAAGAACGACCGACCAGGGGAGCGAGGCCAGGG A A A A G G G G G GAA A A G G GAAAGGGGAAGGGGAACCAA GAAAAG G GAGAGCAAAAAGGGAAAGGGAGAGGTTACGGGGACCCAGAAA A G G G A A A A G G G G G GACAAAA A A A A A A A A A A GCGGAGGGA G GAA A A G G G G G G A G A GAGGAAAGAAAAAAAGGGGAAGGAAAAAAAC C C G G A A G G G G G G G G G G A A G G G G G GAGAAAAGGGGAAGGAA GA AAAAAGAGAACAAGGAGGAGCCACAAGGAGACCAGAGAGAAC G G G G G GAAAAAAGGAGGGCAAAGGCCGAAAGGGAGGAGGAAA AACCGAGGAGCAAGGGCCGAGAAGGAAGCAAGAACCAAAGGG AACCAGAAAGAGAGGGGGGAGAGGGGAACCCCGAAGGAAAAA A A A A A G GAGAGGGGAGAGAGAAACGGAACAAAAAGGTTAAGA GAAGAGGGAAAAGGAAAAAAAGGAGAAAAGGAGGGAGGAGAA AAGGGGGACAAACAAGGAAAGGCCGAGAGGCCAAGAAAAAGG $C \subset A A A C G G G G A G A G C C A G G A A A A C A A G G A A A A C C G A G G C C B A$ G G A A A A G G G A G GAAC CAAAAAGGGAAAGGGGGGGGAAAACAAA $A G A C A A A G G A A G G G G G A A C A G G G G G G G G G A G G A A A A A A G G C C$ GAGAAGGAAAGAAAAGAACCGGGAGGAAGGAAGGAAAAGGCC C C G G A A A A G G A A G A G G GACCCAGACCGGGGCCGGGAGGGGGA G GAAGGGGGAGGGGGGAACCGAAGGGAAGGGAAAAAAAGAAC A GAGAAAACCAGGGCCGAGGCCGGGCAAGGGGGGGGGAAAAA
 $G G A G A A C C G G A G G G G G A A G G G G A G G G G A A G G G G G A A G G A A G G$
 G GAAGGAGGGAGAGGGAGGGGAGAGATAAGACGGGGAAGAAA A G GAGAGGGGAAGAAGGGCCGGGGGAAACCGGAGGGAAGGCC
 G GAA $A \operatorname{GAA} C \subset G G G G A A G A G G G A T A G G A G G G A A A G G A G G G G G G$ ACAAAAGGAGAGCCAAAACCAGAAGGAAAAAAAAGGGGCCBAA GAGGAGAAAAGGAGCCCCAGGAGGGAGGGGGGGGGAAAGGGG $C C G A A G A G G G G G A A G A G A G G G A A A G G G G G G A A G A A A G G G G C C$ G GCCAAGGGGAAAAAAGGGGAACCGGGGAAGGGGGCGAAAAA GAAGGGAGTTGGAGCCAACCCCGGAGAAAAGGGGGAGAAGAG A G GA $\operatorname{A} A A C G G G G G A A G G G G A C C G A G G G A G G C C G A G G G A A A A G$ $G G \subset A G G A G G G A G A A G A A T G G A A A A G A G A A A T T A G G G G G A G A A$ G GAAAGCCAGGGAGAGGGGGGAGGGGAAAAGAAGGGCCGGAT

ACAAAAGGCCAAGGCCGGGGAAAAGGAAGGAGAAAAAAAAAA A A G G A A A A A A A A G G C C G A G GAACAGGGGAGTTAAGACCAA G G
 GACCAGGGAAAAAAGGGGGACGGACCGGCCAGCCCAGAGGGG G GAAAAAAAAGGGGGAAGAGAGGAAAGAAGGGAAGGGGAGGG A A G G G G A A G GCCCAATCCAAGGGGAAACCCGGGAGAAAGAGA G G G G G G A G G G G G G G C C A A GAGACCAAGGAAGAAGAGAA GAAA AAAAAACCGGCAGGGAGGGGAAGGAGAACCAAGGAAAAGGGA A G G A A A G G G G C C C C G G G A G A G G G A G G C A A A G G A A C C A A A T A G G GAGGACAGAAAGGCCAGAGACGAGAGAGAGGAGCAGAAAAA A GAGAGGGCAAGAGGGGGAAGGAGGCGGGGCAGAGACCAGAA A A G G A G G G GA G A G A A A A A A GAGAGAAGGGGAAACCCAAAAAA G G G GCCGGGGGGAAAAAGGGGGAGGGAAAGCCGGAAAAAGAA
 GAGGGGAAAAAAAAAAAACCAACAGGAAGAGGGGGGGAGGGA
 G G G G G G G A A G G G G G A A G G G G G A G G A G A G A A GA $\mathcal{A} A A A A G G G A G$ GAGGCCAAGGGAAAAAGGAAGGGAGAAGGAAAAAGAAGACCA G G GAGCACGAAAACGGGGGCCCAGGAAAGAAGGCGC
AACGGAAAAAAAAGGGGAGACGGGGGGAAAAAAGAGGAGCC G GAGAGCCAGAAGGAAAGGGGAGGAAGGAAGGGAGGAAAAAG A A C A A A A G A A A GAA A G G GAGAGGGAGAGGAGGAAGGAAAGAA A A A A A A G G A A A A A A G G G G G GAA $A$ G GAAGGAAAACCAAGAAAAA A G A A A G A C G A G G G G A A A A C C A A A A G G A G A A G G A A CAACAA G G A A G GAAAAAAGGAAAAGGAACAAGGAGGAAACGAAAAAAGGG
 A G G GAA A GAA $A \operatorname{Ag} \operatorname{AGAAACGAAAGGAAAAAAAAAGGGAAGGAG}$
 AACCAAAAAAGGAAGGCCGAAGAGAGAGGGGGGGCCGGAGAA A A G G G G G G GCGGGAAAAGGAAAACAAGGGGGGAGGGCCAGAG A G A G A A A G G G A G G G G A A A G G G G C C A A A A A A C A A G G G A A G G G G $A C A A G G A G C G A G G A G G A A G A G G G G A A A A A A G G G G G G G G G A A A$ G GAA A GAACCAGGGAAGGGGGAGAAGACGAAACCAAGAGAAA A A G G A G A A T A G G G G A A G A A G A A A A A G G G G A G G A A CAAAA A A C G G A A A G G A A G G G G G A A C A A A CAAA $A \operatorname{AGGGAAAAAAACACAAGG}$ G G A G A A G G G A A A G G G G A G G A C A G A G G A G G G A G G G A G G G A A A $G$ CACCGGAAAGGAACGGGGGGGGAGAGGGAGAAGGGGAGAAAG
 G G G G G G A A $\mathcal{A} G G G A A G G G A A A G A A G G G G A G G G A A A A G G A A G B A$ CAAAGGGGGAGACCACGGGAAACACCAAAAAGAGAAAAAA GA GAGGGAAGAAGGGGAAAAGAAAGGAGTTATAGCGGGGGCCGA G G A A G GCCAAAAAACCGGACGGGAGGGACBAAGAAAGAGCA G GAAAACCAAAACCGGAAGAAGGACCAGCCAAAAGGGAAAAG AC G G G A G GCA G G G A A C G A C C G A A G A A GAA GAGGGAAAA G T T G GAACCAAAGAAAAAAAGAAAAAAGGAAAGGAAACCAAGGAA G GAA A G G G G G G A G G GACAGAACAAAAAAGAAGAGGGAGAAGA A A G A G A A A A A C A G A A GCCAAGAAGGAGAAAACGGGAAGAGAG $C \subset G G G G A A A A A A T T G G G G C C A A G G G G C A A A C A C C G G A A G G A A$ A GCAAAAAAAAAAGAAAAAAAAGAAGGGGGAGAAAAGGATTA GAAAAGAGCCGGAAGGGGGGAATTAACCGGAAGGGGGGGGCA AAAAGGAAGGAACCGAAGACGAAGACAAAAAAGAGGGCAAGA G GAAGGGACCAAAGGGAAGGAAGAAGAAGGAGAAGAAAGGGG A A A A G A A C A G G A A A G G G G C C G G A G A A G G G G A A C A G A G A A G C A G G G GACCCGGAAAGGAAGGACCAGAAAAAAAAGGGAAAAAGG A A A A A A C A GAAAAA $A$ AAAAAAGAAAGAGGGGAGGGAAAAGGGG A A A CA $\operatorname{A}$ GAAGAAAAGACGGAAACCAAGGAGGAGGGAGAAAAA A A G GAAG $A$ A A A A A G G A A G GAACCGGAAAACCAAGGGGGGAAAA G G G G A A A A G G C A A G G G A A A G G A G G G GAA A G G G G G A A G G A A A A A A GAGGAAGGAACCGGGGGGGGAAAAAAGGGAGGAAAAGGAA

G G G GAA $A$ G G GAAAAGGGAAAAAAGGGAGAACCAACCAGAGAC
 C C C C A A CAA $A \operatorname{GA} A \mathcal{A} C C G G G A A A G A A G G G G G A G A C A A A G A A G G$ A A G GCA $\operatorname{CA} A \mathrm{~A}$ GAAAAAGGGCCCCGAAAGGGGAGGGGAACAACA G GAA A A GAAAGGGAAAAAGAGAAACCAGAGAGAGAAGAAACA
 GAGCAGAGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGGG G GAAGGAAGGAAAAAGCAAACACCAAGACCTAGGAGAAAAAA
 $C \subset A G A G G G A A A A G G A A C C A A G G A C G A G G A A G G G G A G G A A C G G$ A A G G G A G G A A G G G G G G A GAGCCA $\mathcal{A} G G G G A C G A G A A G A G G G G G$ A A A A A A A G A A A A T T A A G G G G G A A G C A G A TTAAAAAAAAC C CA A A GAAAAAAACCAACCAAAAGGGGGGCAAGAAAAGGAACCGG G G G GAATTGGAAAAAGCCGCACGAAGGAAGTACAAAAGGATT AAACAACCAAAACAGAGGGGAAAGGGGACAGGAAAGCAGAAG AAAAGGGGAGGAGGAGCCGGGAAGGGAGGAGGAAAGCCGGCA
 G G TAAA A A GACAAATTAAAAGAGGAAGAAACACCCAAGA GAA A G A A C A A A G A A ACCCACCCAGGCCGGGAAGGATTAAGAGEGA TAAAGGGGAAAAGGAAGAGGCCCCGGGGAGAGGGAAGAAAGA G G G GCCGGAAGGAAAAAAGCGGAGGGCCCCAAGGGAACGGAG G G GACCCGGGCCAAGGGGGGGAAAAGAGGGGGGGGGGAGGGG A A A A C A A A C C G A A C G G A GAA A A A G G GTTAAAACAAAGGAGAC A G G G G GACACAGAGAGGGAAAAAAAGAAAAAGAAAAGGAGAA
 $C \subset G G A A A G G G G A A G A G G A A G A A G A G G C C C A A G G A A G A A G G G G$ A A GAGAAGAAGGGGGGCCAAGGGGAAAGGGGGAAAGGGAAGG A A A A A A A G G G A A CAC C $\mathcal{A} G G G G G G C C A G A G G G G G A A G G A A A G G G$ A A G G G G GAGGCCAGGGCAACCACCAGAGGAGGGAGGGAAGAC AA G GAAAGAACCGAAAAAGAGGGGGAGAGAAAAAACGGAGA G A A G A G A A A C G C A C C G G G G A C G G G G G G A A G G G G G G G G G G C C G G GGCACAAAAGAAAAGAAACAGAAGGAAGGGCCCCAAAGAACC A G TAACGGAGACGGAGCCGAAAGGAGACGAAGCCGGAAAGGA C C C A G G A A C C A GAA $A \operatorname{GA} A G G G G G A A G G A T C C G G A G A A A A C A A A$ GAAAAAGGGGAAAAGGCCGAAGAGGAAAGGCCGGAGGGAGAA G G G G A A C C A A A C A G A G A A G G G G G G GAGAAACCACGGGGAAA G GAAGAAGGAGAGAGGAAGCAGGGAAGGGGCCAGGGAAGAAAA AGCCGAAGGGAAAGCCAAAAGGAAAACCAAAACCGGAGGGAA A ACCAAAAAACCCCGGAACCAAGGAAAGGGCGAAAAAAGGAAA A A G G G G G GCC G GAACAGGAAAAGGCCGGCCGGAAGGGGAGAA A GAAAAGAGGAAGAGAGGGGAAAAGGCAAGAGGGCAAAAACA
 A G GAGGCAGAAGAGCGCAGGCCAGAAAGGAGGGGAGACACAG G GAAGGGGAACCAGAAGGCCAAGGGACCAGAGAAAGGGAAGA G GAGAGGGCAGAAGAAGGCCAAGGAACCAGAAGGCCACAGGA AC GAGGCAAAGGCCAGCCGAGGGAAGGGCCGAGGAAGGAGAA C C A A G G A G A GAAAAAAAGAGGGGGAAGGCCAGAAAAAAGAAA
 AACCACATACCCCCAAAAAAAAGGAAGGGGAAGGGGAAAAGA $G G C A A G A A A A G G G G G A G C G A A G A G A G A A G G A C A A G G A A A G C A$ AAGGCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAGGAG G GAAGGGAGGAGAAGGAAAAAGAAAAAAGGGGCCAAAAGGAA C C G G G G A A A A G G G A A A G G G GA G G A G A A A A A A A A G A A A A G G A A G GACGGGGGGAAGGGGACGGGGAAAAAAAGAACCGACCAAAG A GAGAA $A \operatorname{G} G A A G G A A A G A A G G A A G C C A G G G G G C C C A A G G A G G$ GAAGGGAAGGGCAGGAAGGGGGGGAAAAAAAGAAAAGAACAA A A G GCCGGAGGGAGGGGGAGAGAGCAAGTTAGAAAAAGAAAA A GAA A GAAAAAACCAGGGGGGAAAAAGGAAAGCCAGAGAAAA $G G C C A A G G A A A A A A A A C C G G G G A A A A G G A A A A A A G G A A A A G A$

CAAACCAGAAGAGAGAAGGAAAAGAAGGGGGGAAAAAAAAAA C CAA $A \operatorname{GAG} G \mathrm{G}$ GAAGGGAAAAGGAGGAAAACCAAGGGGAAAGAA GGAGCCGAACAAGGAAAAAAAAAAGGAGGGCCCCAAGGAAAAA G G G G G GCC C G G G G G G G G G G GAGGGAAAAAAAAGGAACAGAG G A G GAGCAGAGAGGCGGAAAAAAAGAAGGAAGGAAAAGGAAGAA T TAAAACCCCGGGGGGGGAAGGAACCGAGACACCCAGGTTAG A A GAAAAGAAAAAGAGAAGAGGGAGCGAAGAGAAAAAAAAAA $G G G G A T C A C G G G G G G G A A A A A G G G C C G G A G A G A A G G G G A A G B$ $G G C C A A A A A A G G G G A G G G A A G G G G G G A A G G A A A A A A A A A A G G$ A A G G G GAAGGAAGGGGGGGGGGAAGGGGAAAAAAGGAAGAAA G G A A A A G G A A G G G G G G G G G G GACCAGAACCGGCAAAAA G GAA A A A GAA A GACCAGAGGGAACCCAAAATTCCGGCCGGGAAAAA
 AACCGGAAGGGGAAAACCAAAAAGAAGAGAAAGGGGGGAGAA AAAACCAACCAAAAGGAAGACAGCAAGAGGCGGGGAAGGAGA AAAACCAAACGAAACCAAAAGAACGGAACACCAAAAGGGGGG A ACACACAGAAACAGAGAGGGGAAGAAAAGCAAGGAGAAGAA GAAGAGCCCCGGAAAAGGGGGCAAGGGGAAAAAGGAAAAAGA $G G C C G G G A A A A A G G G G G A G G A G G A A G G G G C C C A A A G$
G G G A A C C A A G G G G A A G G G GCCAAGGAAGGAATAACGGAGGG CAAAAGAGAAGAGGAGAAAAAGCCGGGGGAGAGAACGGAAGAA
 ACA $\mathcal{A} A A A A A G G A G A A G G G G G A A G G G G A A G G A A A A G A A A G G G G$ C CAA $A \operatorname{GGG} G C C G A G A C A G A C A G G G G G G A A C C G G A A A G A C G G C C$ G G A A A A G G CAA A A A A CAAA A GAAA A A G G G GAACC GACCGGCC CACCCCCCGGAAAGACGAGGAGAGAGAAAAACCCGAAAGGGG GGCCAAAAAAGGGGGAAGAGGCAACGGGATAGGGGGCACAAG G G G G G GAA A GCCA G A A GAGGAGAAGGCAGGAGGGAGCAAGCC G G A A G A A A A G G A G G G G G G A A T TA $A$ A A A A A G GAA G G G G G G A CA A G G GAAGCCAAAGAGGGAGGGGGCCACAAGGAAAGGAABACAG C C A G G G A A G G A A C A G G G A A A A A G G G G G A A A G G A A A A G A G G A G ACAGAGAGGGAGGGGGGGGAAGAAGGAACCGGAGCAAAGGGG C C G GAAAA A GCAAAAGAAGAAAGGCCGGAAAGGA GAA GAGAG A G G A G GA G A GCCA G GAGGACACAGCCCCAGGGAAACGGGGCA G G A A A A A C G G GAGAGGCGCCGGCCAGAAAGGAGGGGGACAA G A G A A A C G G A G C C A A A A G G G G A A G G A CA GA GAAAACCAA G G C C $C \subset G A C A A A G G A A A A G G A C A G G G A G G A G A C C G G G A G G G G A A A A$ AACCGGAAGAAAGGGAAGAGCCGGGAGAGGAACAAGAGAAGA GAGGGGACGAGGAGGAAAGAAGAGAGGAAGAAACGAABAAAA
 $G G A A G G A A A G G G G G A G G G G G G G C C G A A A A G G G G G G G A G A G A G$
 AAAACCTTGAAAGGCCAGAGAAGGAACGGGAAGAAGGGGGAC A G A A G G A G G A A G G A G G G G C A G G A G A A G G G G G G G G A A G G A A G A GAAGGGAAGAAGGAAAGAGACCGACCAAAAACGGGGAAGAAA GAGGAAAGAAGAAAGGCACAGGTTAAGGAGAGAAAAAAGGCC C C G GAAAAAAAGAGGGAGCAGGAGGGGGAAGGAAGGGGAGAA G GAAACGAAGGAAAGGAAAAACAGACAAAAGGGGGGAAGACC AAAGGAAGCCGGAAGAAGGAAAGGAAAAAAAAGGGGGGAGTT G G G G G GAA A G G A T T A A C C G G G G A A A CAAAA A G GAA A A A G A A A CAGGGGGGGAGGGGGGAGCCCCGGAGCCGACACAGAAAGAGG ACGGCCAACCAACCGGAACAGGCATTGAAGCCAAGGCCAA G G G G A A A A A A G G A A G G G A G G G G A C G G A A G G G G A A G A A A G GAAA A AACAGGAACCGGAAGGAAGGAGGGAGAAAACCAGGGAAGGAG G G G GAA $A \operatorname{GGG} G A A G A A G G A A A A G A A A C C A A A A G G G G A A G G A A$ A A G G A A G A GAGAAAGGAGAAAAAGAGGGGAAAGGGAAA GAAG G G T T G A A G A G A G G G G A G G A A G G A A A GAGGAAGAA GAGAAGAA AAGGAAGACGCCAGAGAAAAGAGGCCCCGGAAGAAAAAAAGG A A A A A A A A G G G GAA A GAA $A \operatorname{AAGAAAGGGGGGGGAAAGGAACAG}$

G GAACAGAGGGGAGAGGAAGAGAAGAGGGAAAGGCAAGAACA TAATGGAGCCACCAGGGGAAGGGGAAAGACGGAGAAACAAGA AAAGGGGGACGGGAGCGACCAGGAAGAAGAGAAAAAAAAAGG GGAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAGG G GAA A G G G A A A A G G G G G GAAAAGGGGACAGGGAAAAAA G A A A G A A G G A GAGCAAAAAAGAGGGAGGGAAAGAGAGGAAACCACAA G G G GAAAAACAGACCAGGAAGAGAAAAAAAAACAA GAAAGGG $G G A A G G A A A G C G A A A A A C C G A A G G G G G A G G G G G G G G G G G G G G$ G GCC C A A G A A G A G G A G A G G G G G G G A G A A A G A A A $\mathcal{A} A G G G G G G G$ G GAAGGAACAAAAATACCGGAAAAAAGGAACCATAGGGAAAA G G G GAA $A \operatorname{GCCA} A A A G A C A A G C C G G A C G G A G C C A A A C C C A A G A$ A A G A G G A A A A G GAA A G G G G A A G A G A G A A T T A G C C A A A A A A A G C C A A G A A A G G G GA T G GACAGGAAAGAAAAAGGGATTCAAAG G A A G G A A G G A A G GAGGCAAGGCCCCAAAAAGGGAGCAAAGAAA A A A A A GAA $A \operatorname{GGG} \operatorname{GAAAAAACCGGCCGGAAGAGAAAGGAAAAAA}$ TTAAAGAGCAAGCCAAAAAAGGCCAAAGGAAGGGAAGGCCGG A T G A A G A A G A A GCC $C$ G G G G G G G G G G G A G G G G A C G A A A G A G G A A A A A A A A A G A A G A A A A A A A A A GAGAAAGAAAGGCCGGGAGGCA AACCGGAAGGAGGGAGAGGGCCAAAAAAAAGGCCAAGGAAGG A A G A A A C C G G A A A A A A A A A GAGAGGGAAGGCCAAGGCCACAA G GGAAGACCCAAAGAGAAAAAAAAGAGGGAGGGAAGGGAAAG
 GAGGAAGGAGACGGCCGGGGCAAGAAGGGAAAAAAAAGBGAA A GAAGAAAGGCCAAAACCCCACGGCCACAGCCGGAGAAGGAAA $G G C C A G G A G G A A A A A G A G G G A A G G A G A G A A G G A G G A C C B G G A$ A G G G GAAAAACCGAAAAAGGAAGAGGAAAGGGGGGGGGAAGA A G G GAAAAAGGGGGCCAAGGGGGGAAAGGGGGGAAGAAGGGG

 $G G A A C C A A G G A A G A G G A G A G A A G G A A G A A G C A A G A G G G A A G A$ A G G A G A G G A A A A G G A G A T G G G G A C A A G GAAA A A G G G G G C C G G AAGGGGAAGGGGGGAAAGAGAAGGAGAGAACCGGGGAAAAAA G GAAAAGGGGAAGGGGAAAAAAGGAAGGGGGGAAAAGBCAAA A A A A A A G G A A A A G G A A A A G G G G A A G G G G C C C C G G G G G G G G A A
 $G G A A A A C C G G G G G G A A G G G G A A A A G G A A G G A A G G A A G G A G A A$ G GCCAAGGAAAAAAAAAAAAGGCCGGAAAAGGAAAAGGAAAA G G G G G G A A G G G GAAAAAAAAAGGGGAAGGGGAAAACCAA GAAA G G G G G G G G G G A A G G G G A A G G G G A A G G G G A A A A G G G G C C G G A A G GAA A GAAAGGAAGCCGAAGAAGGTAAGCCGGCXAAGGAGAA A A A GAAGGGGAAAGAAGGGGACGGGAGCAAAAGGAGGGAAAA
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 AAAGGAGGCCAGAAGGGGGGAGGAAGAACCCCGCCCACAAGAA ACGAAACGAAAAAGAGCCAGAGACAAGGAAGGAGAGAGGGGA

 G G T TAACCAAGAGGAAGGGAAGAGGGCCGGAAGGAAGGGGAC GAAAAATTCCGGAGGGGAAAGGAAAAAGGAAGGAGCGAAABA GAAAAAGGGGAAGAAGAGCCGAGGCCAAGGCCAAAGCGAGAA G G G G GAGGGGGAAGAGGAAAAGGAGGAAAACCAAGGAAAGAA
 AACCGGGGCCGGGGAAAAAAGGAAGGGGGGGGAAGGCCGGGA G G G G A A A A G G G G G G G G C C C C A G A G G G G G A G A G G G A C A G C C G G A A A A G G A A A A A A A G G A G G G GAACCAGAAGGAAGAGGCAAAA G AACCAAAGAGAAGGAGAAAACCGGAAAAAAGGGGCCGACAAA A G G A G A C C G A G G G A C C G GA GAC G G G G G G C C A A C G G GAA G G G G G G GAGGAGAGAAGAGGGGAGAAAACCCCGGAAAAAAAGAAGG

A G G GCAGAGGGGAAGGGGAAAAGGCCAGGGAAAGGGAGAAAG G G G GA $\mathrm{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A}$ GAAAGGCAGGGGCCGGGGAACAAAAA A A G GAAGGAAGGAAGGAAGGCCAAAAGGGGCCAACCAAAAAA AACCGGCCCCGGAAGGGGGGGGAAAAGGAAGGGGGGGAAAAA G GAACCCCGGGGAAAAAAAAAAGGGGAAAAGGCAAAGGGGGG G G A A G G G G A A A A C C G G G G G G A A A A A A G G T T G G A A G G G G G G G G G G A A G G G G G G G G A A A A G G A A G G G G G G G G A A A A A A A A A A A A G G G G G G G GAA $A \operatorname{A} A A G G C C A A C C G G C C G G C C A A G G A A G G G G C C G G$ A A A A A A G G G G G A A A A G A A A A A A A A G G G C GAGGGAAACC G GA G A GAAAAGGGGCCGGGGCCGGCCGAGGAGGGGGGGGAAGAGGG CAA $A$ AA $A$ ACCGGAGAGGAAAAGAACCAGGAAGGGAGAAGGGG
 A A G A A A G A G G G GAAAAAAGGAGGGAGAAGAGAGAGA GAA G GAAA G G A A G G A A G G C C G G G A A A A G A A C A GAGGAGGAAGCAAA G G G G A A A A A ACC G GAAAAAGAGGGGGAGAAAGCAGACCAACCAACC G GCCGGGGGGGACCAGAAAGGAAGAAGGAACCAACCCCAGGG A A G A A C A G A G G A A G A A A G G GAA A G G GAGAAGAGGGGAAA G CA A A C C C A A A T TA GAA $A \operatorname{GGGCACCGAAAGGAGGAAAGGGACCGG}$ GAACGGCCGAAGGGAGGGGGGGGGCCACACACAGGGA
 AAGGGGAAGAAAGAAAGGAAGGGGGGAGACAAAGCCAGGGAA A A A GAA A G G G G GAA A A G G G G G GAACCGGAAGAAAAAAGAAAA A A A A A GAGAAAAAGGGCCGAAGAAAAGGGGAAGGGGAAGAGA GA G A A A G A A A G A G G A A A G A C C C G G A G A G G G A A A A C C G G G A A G A G A G G G A G A A A C G A A A G G G G T A A GAGGGCCGAAAAACCAA GA G G G G A G G A A A G G A A G A G G G G G A A G G G G G G A A G G A G G G G G A G G A GAGGAGGAAGAGAAAAAAGAGAAAGGGGAAAGGGAGAACAG GAGACCGGAGGAAGAAGAAGAGGGGGGGGGAAAAAAGGAACC A G G G G A A G A A C C G G GAGGACAAACAGAAGAGGAAGGCCAA G G A G A G G G A A G G A G G G G G A A G G G A G GACGGAGGAGAGGCCAAAA A G G G G A G G G A G A G A G G A A C C G G C C G G A A A A A A G A G G G G G A C C G G GAGGGGTTGGCCGGGGAGGGGAAAAGAACCAAGAGAAGGG A GAGGAAAGGAGAAGGGCGGAACCGGGAAAAAGGCCGGCAAA A A A A A A A A G G G GAA $A \operatorname{G} G A A A A G A G G G G G G A A G G A C A A G G G A G G$
 G GCCAAAGGGAAAAAAAAGGAAAAGGGAAAGGGGGGBACAAA A A A A A G G G G A A GAC G G A A A A A A A A A A G GAC GAG GAACA G GAA A ACAGGGGGAGAAAAAAGAAGGTTAGGGACACGGGGAAAAAA CA $A$ A $A$ A $A G A G A A G G G A G G G G A A G G A A A A A A G G C C G G A A G G A A$ A A A A G A A A A A A A G GCAGGCCGAGGAGAGGGAAAGAAAGACAA C C C C A A G G G G G A A A A A C C G GAAAAAAGGGGAAATAGCCAAAC G G C C A A A A A G G G G G A A G G G G G G A G G A A G A A A A G G G A A G G G G A G G G G G GAAAACAGGAAGGGGGAGAAAAAGGAGAGGGGGTTAA ACGAAAAAAGCCGAGGAAAGAGAGAAGGAAAGCCAGACAAGB C C A A A G G G A GAGAGAGAAAAAAAGAAAACCTAA GAA GAA G G G A G G G G G A A A A GAAACGGAAGGCCGGACGAAGAAGAGGGGAAAA G G A A A A G G G G G G A A A A A A A A G G C C G G G G G G G G G G A A C C G G G G C C G GAACC G G T T G G A A G G G G A A C C A A G G G G C C C C A A C C G G G G A A G G G G G G G GAGAAAAGGAAGGAAGAGAAATTACGGGGGAAA
 C CAAAA A A A A G G G G G G A A A GCAGAAAGAAAACAGGGGAAAAA A A G G G G A G A G G A G A A G A A G GAA A A A A C C G G G GA G G GAAAA A G
 A G GAGAAGGAAGAGGAGGGGAAAAAAGGAGAGAGGGAAAAGG G GAAGAAGCCAAAAGGGGATAGACAAGGAACAACCCGGAAAA A ACCAAGGCCAAGGCCCCAGGGCCCCAGCCAAGGGGAAGAAA
 $A G A A C A A G A A A G G G A A G G A A G A G G G G G G G A G G G A G G A A B A A A$ G G G G GACAAGAGAGGGGGAAGAGAAGAAAAGGAAGAAAGGGA

CCGGCCAGGAAACACCACGGAGAGAAGCAGAGGGCAAAGGGG
 A A G GCCGGAAGGGGAAGAAAGGGGGGAACCGGCAAGGGAAAA
 G G G GCCGGAAGGGGAAGGGGAAGGGAAAAGGGAAAGAAGGGG A A A A G G G G GAAAGGAAGGGGAGCCAAGGGAAAA GAGAAGCGG G GAAAAAGGGAAAGACGGAAACAAGGGGAAGAGGCCGAAAAG AA $A G A A G G G G A A A G C C A G C C G G A C A A A G G G G G A G A C G G A G G A$ A A G A C A G A A $\mathcal{A} A G G G A G G G G G A A G G A G G G G G G G G G C A G G G G G G$ G G G GA $\operatorname{G} A A A A C C G A G G A A G G G G A A A A G G A A A G G A C C G G A G G G$ G G G GAA $A \operatorname{GCC} G G G G C C G G A A C C A A A A A G C C G A G G G G A G G G A G$ GAAGAACCGGGACCAGAGTAAAGGAAGGGGAAGGGAGAAAAA GAGGCCGGAGAAACAAAAGGAAAAGGAAAAAAAAGGGGGGGA GAAACAGAGGGGAAAGGAGGAACAAAAAAGACGGAAAGAAAG G GACAAACGAGGGAAAAAAAAAGGGGAAGGAACCGGAGAGGA G G G GAGGGAGAGGCGGGGGAGGGGAACCCAAGGACCGAGAAG
 A G G G G GAA A A GAGGAACCGGGGCCAAGGGGAAAAAATAAACC GAGGAGGGAAGAGGGAGGGGCCAGACGGAAAAGAAGAAAAAA AACAAACCGGAAAAAAAGAACAGGGGGGGGAAGGAAGACCAA G GAGGGCCGGGGAAAGGACCAGGGGGAGAAGAGACCGGGGGG
 G GCCGAAAAAAAAGGAGAGGAAAGAGGGCCTTAAAAAAGGAA G GAGGGAGGAAAAAGGGGAAGGGGAACCAAGGAAGGGGAGAA $G G A A A A A A A A G G G G G G G G G G G G G A G A G A G A A G A A G G G G A A A A$ G G GAAAAAAGACACAAGGGGCCGAAAAAGGGGGGAAAAAAAAA G GAGGGCAGAGAGGGGGGAGAGACGAACGGAAGGCCGGAAAA A GAGCCCCAGAGAGAAACGGAGGAAGGGGAAGCCGAAGAAGB A GAC A G G A A G A A A C A G G G G GCCAAAGGGCAGGGGAAGAAAAA G G GAAGAGGAGGGAGGGAGAACAAAGAGAAGAAGAAGAAAGAG GAGGGGAACCAAGGAGGGAAGGAGGGAAGAAGGAGGAAGAAA GAAAAAAAAGACGACAAAGGGGGGGACAAGAGGGGGGAGGGG AACCGGAAGAAGGGAGAGACAGAGAAAAGGAGAGGAAGAA GA A A G G A A GAA A $A \operatorname{A} A A \operatorname{A} A G G A G G G C C G G A A A A A G G G A A G A G A G G$
 A A A A A A A A A A G G G GCCAAAGGAGGGAGGGGGAGAAAGGAGAA G G G GAAAAAAGAGAGACCAGAAGGAAGAAGAGGGGGAAAAGA AACAAGAGCCGGAAAGAAAAAAAAAGGAGAGGAGAAAAAAAG G GCCGGAGAAGAAGAGAGAGGAAGGAAAGGGGGAGAAAAA G G $A$
 $G G G A A G A A A G G A A G G A A G A A G G G G G A A G G A A A A A G A G G A A G A$
 AAAGAGCCAAGGGGAAAAGGCCAAAAAGCAGGAGAAGAAACC A A G G A A A A A G A A G G GAAAAAGGAAAGAAGAAAAGGAAAAGAG G G G G G A G G G G A G G A A G G A A C G G C C A A A A A A GAGGGAAAAA G G A A G G G GAAACAAAGGAAGGGGGAGCCGAAGAAAA GAGAGACC AAGGAGAAAAAAAACCGGAGACGACCAAAGAGGGAAGGGGGG GAGGAAGAGGAAGGCAAAAAAGCCAGGGGGGGAAAGAGAAAA A GAAAAGGGATTGAGGGAGGAAAAAGAGAAGAGAGAACAAAA ACGAGGAAGGGACCGGAGCCAAGAGAAGGAAGGGAGGAAAAA A GAGGAAGCCGACCAGAGACGGCCGAGGACGGAAAAAAAAGG
 G GAGAAGAAGCAGGAGACGAAAGGAAGAAGCAAGAGACAGAG GAAAAACCAAAGAGAAAGGAACGAAACAACCAAAGGCAGAGA G G GA $\operatorname{l}$ GAGACAAAAGGAAAAGGAGAAGGAGGGAAAAAAGGAA GAGGGGGGGGAAGGCAAAGGGGGGGAAACCAAGACACCAGGG A A GAA $A \operatorname{G} \operatorname{A} A A A G G A A A G G G G A A A G G A A A A A G A G G G G G G G G G A A$ A A A A A A G G A GAC G GAA $A \operatorname{AGGGAAAAGGGGGGAGCCGAGAAGAC}$ G G G GCCGGAAGAGGCCGAGGCCACGGGGGAGGGGAGAGAGAA

G G GAACAGACGAAAAGAGGGAGAAGGGGGAAACCACAAAAAA $A G A G G G G G A G G G A G G G G G A A G G A G G A C C C A A A G A A A G G A G C A$ AC G GAA A GAGAGGGCCGAAACAGAGGGAAAAAAAGGGGGGCC
 AAAAGGAGCAACAGAAGGGGAGAACCGGGAAAAGACAAGGAG A A GAAGCACCAAGGAGCCAGGAAGGACCGGAAAGGGGGGGAC A A G G A G A A G G G A G G A G A A G G G G A A G G G G G G A A A A G G G A G G C A A A A G G G G G G G G G G A G G G G A G G G A A $\mathcal{A} G G G A G G G G G A A C A A A G A$
 G GAAGGAAAAAAAAAAGGGAGGGGAAAAGGCACAGAAAGACC ACAAAAAGGACCGGAAAAAGCCGGAAGAGAAGGAAGGACAAA A A A A G A G A A A G GCCAAAAAAAAAAAAAGAGAAACAAGCAAAA
 AACACAACGAAGGGAAAGAAGGCAGCGGAGGGAGAAGAAGGA
 A G G G G G G G GAA ACC G GAAA A A GAGGAGAGAAAGAGGAAGAGA A A A A A A G A A A A A A A G GCCCCAAGGGGAAAACAGGAAAGAA GA A A A A G G A A A G G A G G A A A A G G G A A A G G GACCAGAC G GA GA GA T G G A A G A A G G G G A G A A A A A G G G G G A G G G G G G A A C A A $\mathcal{A} A$
CAGGGAAGGAAAACAGGGGGGAGAAAAAAGGAAACCAGGGG GACCACAAGGAAAAAGAACAAGGGGAAGGAAGGGGGGGGGGG G GAGGGAGAGGGGAAGAACAAGAAAAAGAGAAAAGGAGAATT AA G GAA $A$ A A A A A GAGCAAAGGACAGAAGGACCAGAAAAAA G G A A CA $\operatorname{A} G A A G G G G G G A A G A A A A A G A G G C C A A A G A C A A G G C A A A$ A A A A G G G A A G A G A G G A A A G A A A G G G G G G G A A C G A G A A G A CAA A A GAA A A A A A GAGGAAAAGGGAGGGAAGAAGGAAGGCAGAAA T T G GAA $A$ GAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAACC G G G G A A G G G G A G A A A A A G C A G G C C G G A G G G A A G G G A A G A G G G G G G G G G A A A G A C G A A G A G A G G A G G A GAGCCGGA GA GAGAA G A GAGGAGGGAAGAGAGGCCGGAAAAAAGGCCGGAGGGAGAAAA G A G G G G G G A G A G G G G G A A A C G A C C G G G A A A A G A C G G A G C A A A G G G GCAAGGGGGAAGGAACCGAAAGGGGGGGGAAGGAAAACC A A G GAA A G G G A A G G G G A A G GAAAAAAAAAAAACCCCAAGGGG C C G GCCCCAAAGAAAGAGACAGAAGGGGAAAGAGGAAAAA G G $C C G G A A A C G G A G G A C A A A A A G G A G A G A G A A A C G G G G G G G G C C$ AC G G A G G G A A A A G G A A G G G G A A A A G G C C A A A A A A A A A GAAA A C C G GAAA $A \operatorname{AGG} \operatorname{A} A A A G G A G G G A G C C A A A C G G A G G G G G G G A A G G$ A G G G G GAA $A$ A A G G GAAGGCCGGCCAAAAAGAAGGGGAAAAAA G GCC $C$ G A A A G G GAGGAAAGGGGGACCGGAACCAGGAGGGGCC A A A A A A A ACCACCAGGAAAGGAAAAGGGGGACAAGGAACCAG AACAGGCCGGCCACCCAGCAGGGGGGAAGGGAAAAAAAAAGA GAAAAAAGGGCCAAGGCCAAGGAAGGGAAGGGGGGAAAGGGA ACAAGAGAGAAGGAAAGGGAGGAAGGGGAAAAGGGGGAGAAA
 C C A T G G G G A A A GC G A A G G G G G G C C T A A A G GA $A$ A C C C A G G G G A A A C C G G G A C C A C G G G G G G A A G G G A G G G G A A G G A G G A G G G G G G A GACCCAAGGGAGGAGCCGGAACCAGAACCAAGGGGGGAGGA A G GAA A G G A GAGAAGGAGGAAAGGCAAGGGCAAACAAAAAAA AAGAGGAACCAAAAAAAAAAGGGGCCAGAGAGAGAGGGCCBA G G A A G A G G A A G G G G G G A A A GAAACAAGAACGAAGGAAAAAA G G G G G A A G G A G A A G A G G G G G G G G A A G G C C A G A C G G G G G G A G A G AAAGGAAGACGGAGCCAAGGTTGGAAGGAGAAAACAGA GGGG G GAACCAAGGCCAAAACAAGGGCCAGAACCCCGGGAAAGGBA AAGGAAAAGGGGGGGAGACCAAGGGGGGGGGGGGAAAAGAAA A A A A A GAAA A $A \subset G G G G G G A G G A G A G G G A G A G G G G A A G G A G A G$ GAGGACGGGGCCGGAAAATAAAAAGGGAGGGGGGAGAAAAAA A G G A A A A G A G G A G A A G G G GACC G G G G G A A GAAA A A GA GA GA A A A G G G G A A G GCCAAAAAGGAAGAAGAAGGAGCAGAAAGG G GAA GAAAGGAAAGGGAATACCGGTTAGCCAAGGGGAAGGAAAAGA

C C G A A A GAGGGAGAGGGCAAAAGGAAGGGGAGGGGACAAAAA G G G G G A GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{~A} A \mathrm{~A} G A A A A A G G A G A G G G A G A A A G C C G G$ AAAACCGGAGGAAAAAAGAAAAGGGAGAGGAACCAACCCCCC G GAAGGAAGGAAGACCCAAGGAGAGGGAAAGGATAAGAGCTT A A G GAA A GAAAACCACAGAGAAGGAAGGTTAAAAAACC G GAA A GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAGGGGAA GAGAGGGGGGGAGAGAGGAAGGGGAAGGGACAAAGGAGAAGG CCGGGAGGAAGGAAAAGGAGAAAAGGCAAGAACCACAAAGAG ACAAGGCCAAAACCAACCGGGGAAGGGGAACCAAGGGGGGCC AAGGAAGGAAAACCGGGGAAAAAAGGAAGAGGAAAGGGGGGG ACAAGCGGAGAACCTTGGAGCACACGCCAAAAGGGAGAGAGG AAA A A GCAGAAAAGAAGGAACCGGAAGGGGAAGAAAGGGGGG G GAACAAGAAAAGGGGAGCCACAAGGCCGGGGGGAAGAGAAA A G G G A A A A A A G GAAGGAGGGTAAAGAGAGAGCCCAAAAAAAA GACCAAGGAAGGGACCGGGGAGGGGGCCAGACCAGAGACACC GACACCGAAGGCGAGCAAAGAGAAAAAAAGGAGGAGAGAGCC GACCGGAGGACAAAAAAAGGAACCGGAAAGGAGAGACAAGCA C C C C G A A A A A GACCCGCGAAGGCCAGCCCAAGAAGAAAGGCA C CAA $A \operatorname{GGGGGGGGGGGCCGGGGGAAAGGAAGAGGGGAACCAC}$
 G GAGGGAAAAAAGGAAGGGAGAGGAAGAGGGGGGGGAAGAGA
 G G A A A A A G A A G G G G A G A GAGGGAAAAGGTTGGAGCCGGAGAA GAGAGGGGAAGGAAAAGGAAGGGAGGGGGGACAAAAGGAACA A A A GAAAAAAAAGAAAGAGGGAAGGGAGAAAGGAAAAGAGAA GAGAAGGGCCGAAAACGGAAGGAAGAAAGGGGCCGGGGGGAC CAGGGAAGAAGGAAAGCAAACCGAAAAAAAACGAGGAGAGGG G GAA A G G G G G G GAA $A \operatorname{G} G C \subset G A C C A G G G A A G G A G A A C A G A G G A G$ C C C G A GCCGGGGAAAAGACCAGAGAAAGGGCCGGCCGAAGCC GACCGGAAACAAGGAAAACCCAGCAGAAGAGGAAAACCCCCC A A G G A A A A A A A A G G A G A A G G G G G A A C G A A A G G C C A A A A A G G G A A G GACAA $A \operatorname{A} G A A G G G G G G G A G G G G G G G G A A G G A A A A A G A A A A$ G $G A A G G A G G A A G G G A G G G G A A G G G C A G G A A A A A G G G A A A G G G$ AACCAGGGAAGAGAAAGAGGAAGGCAGAGGGGGGACAGAGGG GAAGAGAAAACCGAACAGGAGAGGAGAAGGGGGAGAAAACBG A G G G G GAAA A G G GAAAGAAGGAAAAGGGAAGAAAAGAAACCCC
 $C C G G C C A G A C A A A A C C G G G G G G A A A A G G C C G A A G A G A G G A G A$ A A A G G A C C G GAGAGCAGACCAGGAGGCCAGAAAAGAAGAAAA A A C A A A G G A G G G G A G G CA $\mathcal{A} G A A G G G G A A A G A A G G G G A A G G A A$ A GAA $A \operatorname{GGG} G C C A A G A A C A G G G G G G A G A A A C C A A A G G G G G A G A A$ G GAGGAGAGGAACCGGGGAAGGGGAGAAAGGGACGGAGAGAA G G GACAAAAAAAGGGGAAAAGGAAGGGGCCGGAAGAAGACAC $A G A C G G G G G G G G A A G G G G G G A G G G G G G G G A A G A A G G G G G G G G$ G G G GAGAAAACCAGCCGAGGGAAAGGACAAAAGATAAA GGGG G G G A A G G G G G A A A A A A $\mathcal{A} G G G G G A G G G A A G A G G G A A A C A A G G G$ AAGGAAAGGAGGAAAAGGAAGGGGGGAAAGAAGAACGGAAAAA G GAACCGGAAGGCCCCGGGGGGACAGCCAGGGGGAACAGAAC A G G GAA A GAACCGGGGAAAGAAAAAAGACAAGGAAAAGAAAA AAGAGGAAGAAGGGGAAACCAAAAAGGGAAAACAGACAAAAA A A GAA A G G GAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} C A A A A A G G G G G A A A A A A A A A C G G G G$ GAAAAAAGGGAGACATGGAATTCCAAAAGGGGAAGGCCAACC A A A A G G G G G G G G G G A A A A G GAA A G G G G G A A GAGGG GA GAAAA A A G G G G GAGAGGAGGGAAGGGGAACACCGAGGGGGAAGAAAG G G G G G G GAGAGGAAAACCACGGGAAAGGAGAGAGGGGACAAAA A G A G A G A G G GCCC C G G G A G G A G A A G A A A G GAAA A C C G A G G C C C C C A A CAA $A \operatorname{GCA} G \mathrm{G} G A A G C C C C A G A A A A A A G A G A G G G G A A G G$ A G G G GAGGAACCGGCCACAAGGGGAAAAAAGGGAAAAGGGGG GAGGAAGAGGGGTTGGCCGAAAAGAAAGAACAAAGGAGCCGG

A A G G A A A A G G G GAAGGCCCCGAACAAGGGGGGAAGGAACCCC G G T T T T G G A A G G G G G G A A G G C C A G G A G G G G C A A A A C G G A A A A CCGGAAGGCCAAGGAGAAGGAAGAAACCGGAACCCCAAAAAA GACCGGAAAGAGAGAAAGGGAGAAGAGGGGCAACGAAAAAAA AA G GAAAACGAAAAGAGGAGAAGGAGGGAGAAACGGAAAAAG G G G G G A GACCAAAGAGCCCATXGGGGAGGAAAAAGGAGAAAG A A G G A A A A A G T A A G G G G G G G A A G A A A G G G A A G A A A G A A G G G A G G G GAGGGAGGGCCAGGGGAAGAAAGAAGAAAAAACGGAGGA G G G A A G A A A C A C G G G G G G G A A A A $\mathcal{A} A G G G G G G G G G A A A A G A G G$ GAAAGAAGGGGACCGGAGAACAAAAAGGGGGAGGGACAAAAA
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GAGCCAAGAGGGGAAAAGGCCCAGACAGACCGGAACAAGCC G GAGGAAAAAACGGGGAAAGCCAGAAGGGGAAGGAAGAGGAC
 CAGGGGAAAGAAAAAGTTGAAAGGGGCCGGGGGGGGAAAGAA G GCCGGGGGAAACCGGGAAAGGAAAACCGGAAGGCCAGAAAA G GAA A G G GACAGAACAAAAGAAGGCCCAAAAAGAGGGGAAAA AGGGAAAAGAAAGAAAGGAAAAGGAGGGGGAGCCAGAACAGG A A G GAGGACAGAGGGGAAGGAAGGGGGGGGGGAAAAAGAACA A GCAGGCAGGAGCAAAGGGAGGAGCAGGAGAACAAAGAGAAG G GAAGAAACCAAAGGGGGAAGGAAAACAGAAACCAAGGAGAA AAAAGGGGGAGGAGAAAAGGAAGGGGCCAAGGGGGGAAAAAA AACAGGAAAAGGAAAAAAAGCCGGGAGGAAGAAGGGCAAGAG A GAAA A G GAGGGGGAGCAACGGGGAAGGACAACCGGCCGGGG G GAA A G G A C C A A A G G G G G G G T T G GCGAAGGCCAAAACAAA G G G G G G A A G G G G A G A G C A GAGGGGAAAGAAGGGAAAAACA GAAA A $A G C C G G A A G G G G A G A G A A G G A A G G A A C A A A A A G A G C G G G G G G$ $A C C C A G A G G G G G A C A G G G A A G G G A G G G G A A G G A A C A G A A C B G$ ACAGAAACAGGGAGCAGAGGGGAAAAGGGAAGAGGGGATTAA AAAAGGCCGAAGGGCCGGGGGGCCGGCAAGGGGAGGAACCAG
 G GAA A A A A GAGAGGAACCAAAGAAAAAAGGAGGGGAAAAA G G AGGAGGAGGGCCGGGAATAAGACACAGAAGGACCAGAAGAAA CAAAAAAGAGGGCCAAGGGAAAAGACAAAGGAAAAGACGCAG GAAACCGGAGACCAGAAGAAGCCCCAGGAAGGCCCCGGAGAG G G G G G GCCAAAGAAGAGGCACAAGAAGGAGGGGGGGAAGGCC GAGGGGACCAAACCGGGGAAGGAAAAAACCGGAAGGCCAAGAG CC G G A A A A G G A G GAAA G G C C G GAAAACCCAAGGAA G G G G G G A GCCCAGGACCCCAAACGGGAAAAAGGGGGGAAGGGAAAAGGG GAAACCGGGGAGGGGAGGCCGAAAAAGGGGAAAAGGGGAAGG AAAAGGGAGAGACCGAGAAACCGGAAAAAAGGAAAAGGGGAC G G A A A A $\mathcal{A} G G G G G A G G G G G G G G A T T G G A A G G G G A G A G C A C A C A$

 A A G GCCAGAAGGGGGGGAGAAAGGCCGGGGCCGAGAGAGAAA AAGGGGGAAAAGAAGAAAGGGAAAGGAAGGGAGGGAAAAAAA AACCCCGAGGAGAGAAAACCCCAAGGCCGAGGTTAAGAGAGAA GACCGGAAGGAACAAACAAGGACAAGGAGGGGAAGGGGAAAG $A G C C A G G G C C A A A A A A A A A G A G A G A C A G G A G G A A A G A A G A G G$ A G G G G G G G G G C C G C G A A A A A A GAA G GA G GA G G C C A G A G G G G A G G GAA $A \operatorname{GGA} \mathrm{~A} A \mathrm{~A} G A A A A G C A G G G A G G G A C A C C G G A C A G A G G A$

GAGAGAAAAAGAGGCAGGCCAAAAGGGAGAGGGAGGGGGGAC $A G C A A A A C G G A G G G A A A A G G A G C C G G G G G A A G G G A A G G A G A G$ G GAGACGGGGGGAAAGAGGGCAAGAGAAAAAAAGAAAGGGGA G G G GAGAAACAA $A \operatorname{AA} A A A A G A G G G G G G C C G A C G G G G G G G G G G G$ G G G G G GCAAAAAGGGAGGCCAAGGGGAAAAAGAAGACCAAAA G G G G G A A A C C A C A A A A A A G G G G A A C C GAACAGAGAAAGAA GA GAGGGAGGAACAAAAACCAAAAGGGAGAGGAGGGGGABAAAA
 G GAGAA G G A A A A G G A A A A A A GAA G GAA GA G G GA GA G C C G G A C GAAACCAAGAAGGAGGGAAAGGGGGGAAGAAACAAGGGAAAG A GAC $\mathrm{C} A \mathrm{~A}$ A A GAGAAAGAGGGGGGGAAGGGGCCGAAAAAGGGA

 AAAGAAGCCCCCGAGGGGAGCAAGGGAAGGGGCCGGAAGGAA C C A A A A G G G G A A G G G G G GCC G G G G A A G G C C G G A G C C G G A G A A AAACAAAGGAGGAGGAAAGGAGAAAGACGGGGAAAGAAGGAA C C G GAAAAAGGAGGCCAGAGCCGGAGGGGGAACAAGGAAAAA C C A A A C G G C C A A A G G G A A G G G G G G A A G G G G G G A C A G A C A G G G $G G A A A A G G G G G G A G G G G G G G G A A A G G G G G G G G T T G A A A A G A A$ G G GA GAAGAACCAGGAAAAAAGAACCAGAGGGCCGGAAAGAA A A A A G A GAGGGGGAGGGGAAGGAAGGAAGGACGGAGAGAGGG C C G G G G GACCGGGGAAGGAAAAGAGGAAACGAGCAGAAAAGA A A G G G A A C G G C A A C A C A G G GAA A G G G TAGGCAGAAATTAAAG A A A G G G G A A G A A C C A A G G A A A A A A A A TTXC G G G GCCAG G G C A A A G G A A G G A A A G G A G G A A A A G G G A A A A G G G CAAAA A A A A A G A A GAAAGAAAAGAAGGGCAAAAGGGACGGAGGGAAAAACAGAA AA GAACGAAAAAACGGCAGGGAGACAGGAAAAAAGGAGGGGG A G G A G A G A G GAACCAAAAGGGGGAAGCCGGAAGGAAAAAAAG G GAGGAAAGGAAAAGGGGGGAACCAAAGCAGAGAAGAACAAA G G G GAGGGCCCCGCCGGGGGAGGGGAGGGGAGCAAGAAAGAA A A G A G A C A G G A A G G G G A C G A A G G A A G G G A C G G A T A G A G A A A G G GAAAACCGAGAAACCAAAAGGAAAAAAGGCCGAAAGGAGAG G G GAAAAGAAAAACCCGGAGAAAGAACCGGGGAAGGGGCCAG C C G A A GCCGGAACAAAGGGAAAAGGACCAGAAAACAGAGACA A G A A G G A A A A G GA $A \operatorname{GGG} G A G A G G G G A A G G A A G A G G A A G A A A G G$ GAGGGAAAGAGGGGCCCAGAGGCACCAAAAAACCAGGACCBA C C A A A A A A G G G G G A G G G GAGAC G G G GAAGGAAGAAAAA G GAC G G G GAA A GTTAAAAAGGGGGCAAAACGAGAAAAAACAAGAGG AAAGAAAGGAAACCGGAAAAGGAGACGGAAAACCAAGAAAAG GAAAAGGGAACCGAGAAAAACCGGCCAGAGAAGGGAGGAGAA G G G G G G G G A A G G G G A A C C G GAACCCCGGGGGAGAAGAAAGCC A A C C G C C A C A A A A A A G A A A G G A G G A A C C A A A A A A A G A G G G G G AAGAAAGGAAGACCGAGGAGGGAGGGAAGGAAGGGGGGGGAA A G G G G A A A A GCCAAAAAAGGAAAGGGGGAAAAGGACGAAGAG A A G A A A C A GAAAGGGGAAAACCGGAGGGCCAAAGGAAAGAAA G G G A A A A G A G T A A G G G CAA $A \operatorname{AGGGGCAATGGAAAAAGAAGACA}$ A A A G G G A A A A A A A A A A G G G GAAA A A A G A A GAA G G G GA G GAA A A A A A G G A A A A A A A G G G G GCAGGGACCAGGGAAAAAAAAGGGG AACGGGCCAGCCGAGGCGCCAGAGCAAGAAGGACAGACAAAA AACCACAGCAAAGAGGAGAAAGAACAAGAAGGGGGGAACAAG A A A G G G T TAA A GAGGGAAAAGGGAGGGAAAAGAA GACAAAAG GAAAAAGGAAAGAAGGGGAAGGGGAGGGAAAAGAAAGGGGGG G G G G G G A A G G A A G A GAGGAAAAAAAGAAACGGGCAA GA GAA G G G G G G GAGAGGGGGGACCGGGGAGAAAGAAGAAAGAGACCAC G G GAA $A \operatorname{G} G A G C C G G G G C C G A A A A A A G A G A G G G G G T A G G A G A A$ AGCCCCAGAAGGAACCAAAGGGAGAGCCGAGGGGAGAGAAAA GACCGGAAGGAGAAGAAAAAAACCAAGGGGCCCCGAGAAAGB A A A A A A A A CA G G A A GGCCGGGGAACCAAAAGAGGCCGGAAAA A GAA A GAGGGAGGAAAAAAAAACAACAGGGGAAAGGCCAAAG

G GAGGGGGGGGAAAAGAGAAAAAAGGCCGAACGAAACCAAAA GA GAAAAAGGCCGAGAGAGGGGAAGGAACAGAAAAAGAAGBA A G G A G A A G G G G G G G A A A A G GAA A G $\operatorname{A} A G G G A G A A A G A C G C A G G A$ G GAAAAAGAACCGGAAGGAAACGGAGGGCAGACCGGGGGGGG GGCAGGCCAAGGGAAAAGGAGAAAAAAAAAGGGAGAACAGAA G G G G A A A A A A A A A C A A C CAGGGGGCCACAAGAAGCCAA GAG G A A G G G A G G G GCCGGCCGAGAGACCCAAAGGAGAACCGAAAAG GAGGAAGGAAAAGGGAAACAAAAGAGAAGGAAAAGAAACCAG G GAACCGAGACCAAAGGACAAAGACCCCGGCCGAGGGGGGAG GAAAAAAAAAAAGGAAAAAGACAGGAAGGACAGGGGAAGGAG AAGGGGCCCACCCCCGAAGGAGGAAAGGGAAGAAGGAAGGAG G GAA A A G A A A A GAAAGCAGAGCAGCAAGGGAAAAGGCCAGGA $A G C A A C G G A A A A C A G A G G G G G G A A G G G G G G G G A A A G G B A C B G$ GAGGAAGGGGAAAAGGAAGGGGCCAAGGAAAAAACCAAAAAA
 A A A A A A G G A A A GAA G GCGATAGATGAA GAAAAAAAAAACCGG G G G G G GAAAAAACAAAAAAGGGAGAACCGAAGGACAGAAGAG A A G GCAAGGAGGAAGGGGCCAAGGAGAGAGCCGGGGGAAAAG AAAAAGGATTAAAAAGCAAAAAGGGGGGAGAGGGGGGGAAGG GAAGGAGGCCGAACGAGAGAGAAGAGCCAGCGAAAAGGAACA G GAATTGGGGGGAAAGCCGGCAGGGGGGGGAAAGAAGGACAA G GAA A G G G G G A GAAGGAAGGAGGGGGAACCAAAGGAAGAGAG C CAACAGGAAAAAACCAAGACCGAAAAAAGGAAGACAGAGAA G G A G A A G A GAGAAAAAAAAAAACCAAGGAGGGAGGAGAAGAA G G G G A G G A A A A A G A G G G G G G A A A A $\mathcal{A} G A A A A G G G G G C C C A G G G G$ G GAA A G G G A A G A G G GAAGTAGGGGCCGGAAAAGAAGAAAA G G AAAAAGGGAGAAAGAAGGCCAGGGAGAAGGCCGAACAAGGAG GATTGGGGAAGGGGAAGGAAAAGAGGAGGGAAAAAGGGGGGG $G G A A A A A G G A A A A A G G C A G G G A G G A A A A A A A A G G G A G G G G T T$ G G G G G GAGGAGGGGGAGAAGAGAAAAAACCAAGGAAGGAAAA A G A G A G A A G G G G C C G G G G A A G G A A A A G G A A C C A A C C A A G G G G G GAA A G G G G GAGAAAAAGGGAAGGGGGGGGAAAAAAAGGGCC G GAGCCGGGGAAAAGAGGGGAAGGGAGGAGAAGGAAGAAAAA G GAAGGGGGAAAAAGACCAACCAAGGAAAAGAGGGGGGACAA G G G A G A A G A GAA A A A GAAGAGGAAAAAAAGAAAGAAGGAAAA A A A G G GA G GAA A A A A A A A G GAAAAAAGAAGGGGGGGGAA G GAA G G G G C A G G G G G G G G A A A C A A G G G G G G G A G A A G G G A A A A G G T T A A A A C CAA $A \operatorname{GA} A A A G G C C G G A A G G G G A A G G G G G G A A G G G G G G$ G G G G G G G G G G G G A A G G A A G G A A A A A A A A G GAAAA A GAAAA A G T TAAAACCGGAGCAATAGGAAGCCGGGGAAGGGGGCAGAABA G G G GAGAAGAAAGGGACCGGAAAAAAGGAAAAAAAGAAAACC A A A A G G A A G A G A A G G A A A G G A A G G A A A A C C A A T T G G A G G G A A AAAAGAGAGGAGGGGAAAAGGAGAAAGGGAAGAAGAGAAACC AACCGGAAGAGGAAGGAAAAGAAAAGACGGACAGAAAAAAGG A A G G G GAAA $A \operatorname{AGGAAAGTTCCAAAGTAAAAACCGGGGAAGGGG}$ A A A A G GAAAA $A \operatorname{A} A A \operatorname{A} G C C C C A A A G A G A A G G A A T A C A G G G G A G$ GAACAGAGGGGGGGAAGGGGAACAGGGGGGGGGGACGA$G G A A$ A GAGGGGAGAAACAGGCCAAGGAAAAGGGGGGAAAAAAGGCC AACCAAGGAGAGCCCCGGGGGAAAAAAAAAGGAGAAGAAGGA A ACCCAAGAGAGGAGGTTACGAGAGGACACCAAGCAAAACGG A G G GCCCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGGG AAAAGGGAGGAAACAGGAAGCAAGAAAAGAGAAGGGAGAA GA A G GAA A G G CAAAAAAAAGAACCAGAGGGGGGGAAGAAAAACC GGCCGGGGAAAAGGGGGGCCGGCCATAAGGGGAAGGGAGAGA A GAAA A GACAA A GAGAAGGGGAAGGGAGAAGGCCAACAAAGG A A A A A A G G A A G G C C G G G G G G A A C C G G A A G G G G A A G G G G G G C C G G G GAAAACCAAAAAAAGAAAAGGACGGCCGAAAAGAAGACC
 GAACAAAGGAAGGGGAGGAGAGGAGGCCAGAGAAGGACAAAG

A A G G G G G G A GCAAAAGAAAGACGGACGGACAGAAGAGGGAAA AA $A G A A A A G G C C G G A C G G C C G A A A A A G G C C A A A A C A G B A A C X$ A A G GAAGGCAGGAAGGGGAACCAGAGGGAAACAGGGAGAGAG G GAAAGAGGGAAGGCCAAGGGGGAAAAGAAAAGAAGCAAAAA
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AATAGGAGAGAAGGAAAAAAAAACAGAGGCGGAAGAAGAGG $A C C A A G G A G G A C A G G G G G G A A G G G G G G A A G A C C A A C G B A A C C$ G GAAGGGGAGAGGGAGCAAGGGCCAGAAGGAGGGGAGAGGAG A GAGAAGAGGCCGGGACAGAAAGGACAAAAAGAAAACCGGGG G G G G G G G G G G A G A G A A G G G GCC G GCC G G CACC G G G G G G C C A A A GAG $A \operatorname{G} \operatorname{GA} A \mathrm{~A} A \mathrm{~A} G A A G A G A G G A A G G A G A A G A G A C A G G A C A A A G$ $C \subset A G G A G G A A A G A G A A G G G G A A C A G G G G G G G G G G G G G A G G G G$ G GCCAA A G G GAACCTTCAGATTAAAAAAAAGAGGGAAAAA G G AAGGGGAAAAGGAGGAGGAGAAGGGACCAGAGGGCCGGAGGG GAAAGGGGAGCGGCCCGGAAGGAAAAGGAAGGGGAACAAAGB AAGGAGAACCAAGGAAGGCCGGAGAAGAGGAACAAGGCAAAG
 G GCC G A G G G G A G G A GAGAGGAGAGGACAGGGGAGAGAAAA G G AAAAAAAGAGGAGGACGGCCAGGGACGGAGCCAGAGGAGAAA A G GA $\operatorname{A} G A A G G A G A G C C A A A G A G G G G G A A A G G A A G A A A A G G A A$ AAGGCCTTAAAAGGAAAAAAGGGGAAAAAAAAGGAAAAGGGG AA G G A A A A A A A A A A A A A A G G G G A A A A A A A A G G G G G GAA G GAA AAAAAAGGAAGGAAGGAACCGGAACCGGAAAAAAAAAACCAA A A C C C C A A A A A A A A A A A A A A G GAA G G G GAAAA G G G G G G G G A A G GAAGGGGAACCGGGGGGAAGGGGGGAAGGAAAAAAAAAAAA G G G G A A A A A A G G G GAAAAAAGGAAAAGGAAAAAAGAAAAAAA G G G G A A A A A A A A A A A A $\mathcal{A} G G G G G A A A G A A G G G G G A C A A A A G A G$ A A G G G GA $\operatorname{G} G A G A C A A A G A A G G G A A G G A A C C A G G G G G A A C C B G$ G G GACCGGGGTTAAGGAAAGGAGAAGGGGGAAGGGAAAAAGG AAAAAAGGCGAAGGCCAAGGGAACCACAAGAAACCCAAACAG AAAGGGAGGAGGGGAGGGAAGGAAAAGGAAGGAGGGAAAAAG A A A G G GCCGGGGGAAGGGAGAAGGAGCGGAAGACGGGGAAGA
 CAAACCAAAAGGGACAAACCAAGGAAGGAGGGAGGGGGGGGG A CAA $A \operatorname{GAA} A G \operatorname{A} A \mathrm{~A} G A A G A A G G G G G A G A A A G G A A G G G A A G A A A A$ G GAAGGCCAAGGCCCCGGGGAGGGAAAAGGAAAAAAGGAACC A A A A A A A GAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGGCC CA $A \operatorname{GGG} G \operatorname{GAA} A G G A A A A G G G G A G G G G G C C G G A A G A A G A B A G G G$ A A G G G GAACCTTGGCCCCGGGACCAACAGACAGGGGGAAAAA A A G G A A A A G G A A G G A A A $\mathcal{A} G G G G G G G A A A G G G G C C B G C C G G G G$ CAAACCAGGGGGGGGGGAAGGAGGGGACGGAAGAGACCGGGG A GCCGGAAAAGGGGGGTTGAAGGAGGAGAAAGGAGAACAAAA AAAAGGAAGGAACAAAAAGGCCGCGCAGAAAGGACCAAGAAG AAGGGGAAAAAAAGAACCGGAAAGCCCCGAGGGGCCGGAAAA G G G GAACCAAAGGAGGCAGGAAAAGAGATAAAAAAAAGGAAA C C A GAGCCAACCGAAAGGACAAGGAGCCAGGGGGGAAAGACA AAGGGAAGAAGGACGAAAAAGGAGCACCCCGGCCCCCCGGAA A A G G A A A A G G T TAA $A \operatorname{AGGGCCGGAAAAGGGAAAGAAAAGAGGA}$ CAGAAAAAGGAAAGAGATAGAAAAGGCCAAAGAAAAAAGGAA A A G G A A G G A A A A A A G G A A A GAGAGCCGGGGAAAAG GAA G GAAA AAGGAAAAGGAAAAAAGACCCCAGAAAGCGAAAAAAAAAAAG GAAGAAAAAAAACAGGGAAAAAAAAGGAGACCAAAAAAAAAA

GAAGAAAAAAGAGGGGGGGGGAGGAAGGACAAGGGGGGAAGA C C A GAA $A \operatorname{GAAAACCCGGAGAAAGGAAAAAAAGGAGCCGAGGAG}$ A GAATTGGACGGAGAAAGGAGGGGGGAAGGAAAAAAGAAAAA A A G GCCCCGGAAGGGGCCAGGAAGAAGGAAAAGGGGAAAAAA AA G GACAAGGAAAGAGCAAAGGAAAAGAAAGGCAGGGGAAAA GAACAGAGGGAGACAAGGGGAAGAAGACGAAGCCAAGGAGAA G G A A C C T A G G G G C C A G G G G G G G A A A G G G G G G A A G A A A A G G G G CCGGGAAGAGGGGAAAGGTAAGGAAAAAGGGGAAGAGGAGAG
 G GAGGGGGAAGGGAGGAAGGGGCAGGAAGGAAGGGGCCAACA G GAC C G G A G G G G G G G G A A A A A GAGTTAAAGCCAAAAAAAAAA A GACAAGGGACCAAGGAAAAAAGGGGCCGAGGCCTTCCAGBA A G G G A A A A GACGCCAGAGAAAAGGAAAGGAAAAGAAAAAAAA G G G GCAAGAGCAGGAACCGGAAAACCAAGAAGAAAGGAAGEG G GACATGGAAGGGGACAGGGAAGGGGGGAAAAGGAGGGGACA AA $A \operatorname{GGGGGAAAAAAAAAGAGGGACAACGAAGGAGGGGAAAGAC}$ CAACGAGGGGAGAGGGGGAAGGGGGGGAAGGAGGAGGGAGAA GACCAAGAACAAACAGGAAGAAGAAGAAAACCGGAAAAAGCA CAGGAAAAAGACGGAGGGAGAGAAAAAAAAGGAACCGAGGAA A A C G A GAA A GAGAAGGAAGGAGAAGGCCAAAAAGGGAAAACC G GAGAAGAGAAACAAACCGGGGAAGGTTAACCACAAGGAAAA GAGAGGAAAGGGGAGAAATAAAGAAGAAGGGGAGGAAAAGAA G GAA A A GACCAGCACAGGGAGGAAGGAAGGAGGGAAAAGGGG G G G G G GAA $A \operatorname{G} \operatorname{GAA} A G G A A G C C A G G A A A A A G G G G A A G A G G A A G G$ GA $A$ A $A G G G G G G G G G A A G G A A G G G G G G G G A A G G G G A A G G A G A G$ A GAAAAGGAGAGGGAGGGGGAAAAAAGGGAAGGGAGGGAGAA G GAAATGGAAGGAAGGAAGAAAGAGAAGCCAAAAGGGGCCAA AAAGCAACAGCAGAATGAAAAAATAAACGGAAGAGGGGAAGB A GAA $A$ A A G G G A A C G G G TAACAGAGACAGTACCGGGACAGGAA $G G A A G A A A A A G G A A C C A A A A A A C C A A G A G A A C G A A G G G A G G G$ A G GACCGGCAAAAAGGGGAAAAAAAAAAAGGGGGGGGABCCCG G GAGCGGAGAGGGACCAAGGGGAGGGGGAACAGAGGGAAAGG GAAA A G G G GAA $A$ A A A A $\operatorname{A} A A G G A A C C A A G G G G A A A A G G T T A A G G$ C C A A C C G A A A A A A A A A G G G A A A G G G G A A A A CAAAA A $\mathcal{A} G G G G G G$ G G A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAAAAGGAATAGAGGCAAGGGAACAAATTAA C CAGCCGAGGAAAAAAGGAAGGGAAAGGAAAAGGAAGA GAAA $A G C C A A A G G A G G A G G G G G A A G G A A G A C C A G G G G G C A C C G G G G$ G G GAACAGAAGGAAAAAAAAGGGAAAGGGAGGGGAAGGAGGG A G G G G G A A G A G G T A A A G G G A A G G G C A A G C C A A G G G G C C G G A T A GAA A GCCAGGGGACCGACCAAAAAAAAAACCCCTAAGTATT A A A A A A G GCCGGCCGGGGAAGGAAAAAAGGGAAAGGGGAGAG A GAGAAAGGGAAGGAAAACCGGCAGGAAGGAAAAAAGGAAAA G GAGAAAACCGGCAGACCAAGGGGGGAAAGGAAGGGGGGAAA G G G GCCAAGGATGGAAAAAAGACCAGAGAGGGAAAGGAGACAA AAAAAAGGGGGGGGCAAAAGAAAACCAACCGGTTAGAAAGCA G G A A A A A A G GAACCAAAAGGGGGGAAAAAAAGAAAAGGAAAA A A G G A A A A CC G G A A A A A A GAGAACCCCCGACATTGGAAAGAA A A G GAAAAAGCAAGAAAACCGGGGGGAGAGAGCAAGAGGGAG A GCACAGGAAGGAAAGAAAACCCCGGGGGGGGAAGGAACAAA GAGGAGACAAGAGGCACCAACACCGGGGCCAGCCCAAACABG $A G C C A G A G G G A A A G A C G A A G C C A G G G A G A G G G G G G A G G A A G G$ C G GAA $A \operatorname{G} G A A G G G G C C G G A A A A C C A G T A G A A C G G C C G G A A G G$
 CAAAGAAGACAGAGGAGGGAAGGGGGAAGGCCAGAGCGCAGA GAGGACGACAAAAGCCGAGGGCAGGACGAGAGAGAGAAAGAA G GAGGGAGGCAGGGAGAAAGCAAAAACCAAAAGGGGCCAGAG AA G GAACAATGAAAAAACGGGAGAAAAAAAGGAAAAGGAAAA A A G G A A A A A A A A A A A A A GAAA G GAAAGGAACCAC GAA G GA CA A GCCAAGGAAAAACAGAAAGACGGAAGAGAAGCCCAGAAGAC

A GCAGAAAGGACAGCCAAAAGGCCGGGAGGAGAAAAAGAGGA A GAGGAAGAATAAGGGAAAAGACAAAGACCAAGGCAGGCCAG GGCCAGGGGGAAAAGAAGACAGAGAAAGGAGCGAAAAACCGA A A A A A A GAGGAGAGGCAGAAGACAGGAAGGGGAAATGAAAAA $C \subset C \subset C G A C A G G A G A A A C C C A G G G G A A A A G G A A A A A A A A A A G G$ G GA $\operatorname{G} A A \operatorname{A} A A A A A A G A A A A G G G G G G G A A A G G A A G G C C G G A A G A$ G G G G G G A G A A A C A G G A A A G G C C G G TA G G G A G G C C G G G A G G G A AA $A G G G G A A G G G A G G G A G G A A A G G A C A A G G G A A G G A G A A A G A$ A A A A G G G A A A A A G A A A A A G A G G A GAGGAAACCTTAA GAAC G G AAGAAAAAAAGAGGAGACCCAGATAGAACACAAAGGAGGCGG G G G A G A G G G G G GC C G G G A G G A G G G G GAAAAGGAAACAA AAA T GAAAGGGAGAGGGGAGAAGAGGAGAAGGGAATAGAAG
GAAGGGAAACCGGGGGAAAGGGGGGGGGAACAGAGAACAAA A GCCAAAGCCGACCAAGGGGAAGGGGAACCCAGGGGGGGGGG G G GAAGGAAAACAGGGAAGAAGAAGGAAAATAGGAAGAAAAG G GACAAAGAGAAAAAGCCAAAGACAAAAAGCCGGAAAATTGG G G G GAA $A$ GAAAAGAACAACCACAAGGGGAACGAGGACCAATT A A A A A C A G A A A A A A G G G G A A A A GAGAAAA GAGAGGGGAAAGA $G G A A A A G G A A A A G G A A G G A A A A A A G G G G A A G G G G A A A A A G G A$ $A G C C C A A G G G A G A A C A C C G G G G C C A G A A A G A G G A G G G G A G A A$ A A A A G GAAA A G GAAGGCAAGGAAGACGGAGAGTTAAGGAAAG G G G GCGAAGGAAGGAAAAGGCCAAGGGGGGGGAAGAGAAGAA G G G G G G G G C C A A A A $\mathcal{A} G G G G G C C A A A G G G G G A A G A G G G G A G A G$ GACGGAAAGGGGCAAAGGGGAAAAAACCAAGAAAAGAGAAGBG
 G G GAGGAAAAGGGGGCAGGGAAGGGGAAGGGGAGAAGACCCC A A G G G GAA A G G GCCAAGGTAGAAGAGGATAGGTTCCGGACGG
 A G G A A G G G A A G A G A G G G A G A G A A G G GACAAAAAATTAGAGAA
 G G G G A A A A G G A A G G C C G G A A G GCC G GAACCGGGGAA GAAAAA AAGGGGCCGGGGAAAAAAAAAAGGAATTCCAAGGAACCAAAA G GAAGGAACCAAAAGGGGCCAAGGAAGGGGAAGGAAAAAACC T TAA $A \operatorname{G} A A G G A A G G G G G G G G G G G G A A G G A A C C A A A A G G A A A A$ AACCCCAAAAGGGGAAAAAAAAAACCAAAAAAGGGGCAAAAG A A A A G GAAAA $A \operatorname{AGGGAACCAAGGAAGGGGGGGGAAAAGGGGGG}$ AAAAAAGGAAAAGGAACCAAGGAACCGGAAGGCCAACCAGGG AAGGGGCCGGCCAACCAAAAAAGGCCGGGGGGGGAACAAAGA C CAA $\operatorname{C}$ GCCAAAAGGAAAAGGCCAAAAGGAAAACC GGGGAGAA A A G G A A A A G G A A G G A A A A $\mathcal{A} G A A G G G G A A A A G G G G G G G G G G G G$ AA $A G A A G G C C A A C C G G G G G G G G A A A A C C A A G G G G G A A A G G G G$ A A G G A A A A A A A A A A G G A A A A A A G G G G A A A A G GAACCCC G G A A C C A A A A G G G GAAAA A G G GAA A GAA $A \operatorname{AGGGGGAAGGAACAAAAA}$ C C G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A A A G G G G G G G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAAA AAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGGCC AA $A G G G A A G G G G A A A A A A G G G G G G A A G G A A G G A A A A G G A A A A$ C C A A A A A A A A A A G GCCGGAAAAAAGGCCGGGGAAAAAAAAGG AAAACCGGGGGGGAGAAAGGAGACGAGAGGACAAGAAGAAAA A A GA $A \operatorname{G} G \mathrm{G} C \subset A G A G C G G A G G G G A G A G G G C C G G G A A G A G G A G G$ A GAGAGGGGGAAGGAGGGACGAGAAAAAAAAAAGAAAACAAA AAGGAAGGAAGGCGAAACAAGGAAAAGGAAGGCCAAAACCAA

 AAGGAGCCCCGGAAGAAGAAAGAAGGCAGGGACCAAAAAAAG GAGGAGGGGGGAAGAAGGAGAAGGAGGGAAAAAGGGGGAAGAG
 A A G GAGGGGGAAACGGAGAGGGAGAAGGCCAGATGGAACAAA AAAAAAGGAAAAGGGAAGAAGGAAGAAGAAGAAACAAAAAGG

A G G G G G G GAACAGAAAGAGGGGGAAGGGGGAGAGCCGGCCCC GAGAAAAGAGGAAACCGGAGGGAAGAAAGAGGAGAGAACCGG AAAAAGGGAAGGAGACAAGAAGGAGAGAAACAAAAAAACAGG A A G GAA A GAGGGGGAGGGGGGGGGAGGGCAGGGGAGAGCAAA
 AC GAA A A A A A A A G G G G A A A A A G G G A G G A G G C G G A A A G A A A G G A A GACCAGACAAGGCCAGCCGGGAGGAAGGGGGGAAGAGGAA A G G G G A A C GAA A A GAA A A GACCAAAAGAGGGGGAAAAGAGCC A A A A A A G A GAGAA GAAAGAAAGACACGGAAGAGGGGGAAACA A GAGACAGGGAAAAAAAGGGAAAGGAAAGGGAGGGGGGAAAA G GAGAAAAAAAGGGAAGAAAGAAAAGCAGGAAAAGGGGGGCC G G G G G GCCAGAAAGAAACAAAAGGAAACGAGAAAA GAGAGCA G G G G G G A A A A C C C C G G A A G GAGAGGAAAGACCTTAAGGCCAA G G G G A GC C A A G G T A A A A A G GAA A G GAGGAGAA A A A A A G G A G G GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} A C A A G A G C A G G G G G G G G G G G G G G G G G G G G$ A ATTAAAAGGGGAACCAAGGGGAAACGAGAGAAAAAAAAAGA A A A A A A A A G GAA $A$ A A A G GAAAACCGGGGAAAACAGGCAAA GA G GAGAGGAGGAAAGAAGAGGAAAGCGAAGGGGAAGAGAAAGG A GAGATAGGAGAAAGGGAAAGGAGAGGAATAACCAACCACAC A A G A A A A G G G G G A G A G A A A A A A A G A G G A A A G A G G GCC C G A C A $A C G G A A G G A G G A G G A A A A G G A G G A G G G G G G A G G G A G C A C A G G$ GACAGAAAGCAGAAAAGGAAAACCAAAAGGCCCCGCGACCGG A G A A A G GACAGAGGGGCCAAACGAGGCAAGAAAAGGGAGGCA G GCC $C$ G $\operatorname{CA} A G G G G G A G C A G G G G G G A G G C A A A A A G G A A A A A G A A$ A G G G G G G A A G A G G A G A G A G G G A A A A G A A C C A A G G A G G G A G A A A GCGAAGGGGGGCCAGGAAAGGAGGGAAAAGGAACCGAAGGG G G G GAAAAGGAGCCGAGAGGAAGAGAAAAAAGCAAAAGAAAA G G G G A A G G G G G G G G G G G G A A G G A G G G G A G A A A G G C C A A G G G A G G G A A A A A A A A A A $\mathcal{A} G G G G G G A G A A G G G G G A A A A A A A A G A A G G$ GAAGAAGGGGGGAAGGAAGGAAAAAGAAAAAAGGAAAAAGGG A G G A G A G G A G G G A A G G A G G A G A T T A A G G A C A A A $\mathcal{A} G G G G G G G G$ AACCAAAAGGAAGCAGGGCCAGACGAAGAGAGGGGGGAGAGA A G G GCCAACAACAAAAGGCGCAGGGAAAGACAACAAGGGGGG A A A A A T G G A A G G A A A $\mathcal{A} G G A A G G A G G G A A G G G G G G C C A A G A G G$
 $A G C A G G G G A G G A G G A A G G A A G G A A G G G G A G A A A C G B A A G G A A$ A A G G A A G G A G G G G G G G A GAGATAAGGAAGACCAAAAAAGGGG GAAGGGGAAGAAAACCAAAAGGAAAAGGAAAGAAG GAACCTT A A A T G G A A G G A A A A C A G G G A G A A A A A A G G G G G G G A G G G G A G A A A G G A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A C A G A G A G G A A G G G G C C A G G A C C G G G G A T$ AAGGGGCAAACCCAGACCGGGGGGAAAAAAGGCAAGGAGACA A G G A A GAAAAA $A$ AAAGGCCCCAACCAAAAGGAAGGAAAGAGAA AAAAGGAAGGAAGGAACCGGGGAAATGACCGAACGGGACCAG
 G G G G G G G G A A A G G A G A G G G G G G A G G A G G G A G A T T A G G G A G A A G G A A A GAGGGAGAAGAGGGAAAAGAAAAGGAGCCCCAACCAA AAAGGGAAAGGGAGAAGGAAAAAAAATAAGGAACGGAAAACC C CAACCAGGGAAAAAAAACAAGAAAACCGGGGAGAAGAAGCC A GCCGGAAAACCGGGGGGAAAAGGAAAAAAGGGGAAAAGGGG A A G G A A A A G G A A G G G G G G G G C C A A G G A A A A A A G G A A G G C C G G A A G G A A G G GAA $A \operatorname{G} C A G A A G A A A G G T T A A A A A G A G A C A G A G A G$ CAGGAGAAAAAAAAGGCCAGGGAAGGGGAAAGCGGGAAAACC C C A A G G G G G A A G A G G G G G A A G G G G G G G G A C G A A A A A G A A A G G G GAA $\operatorname{G} A \mathrm{~A}$ A AAAAGAAAGGCAGGAAGGAAAGAGAGCAGGGGGG $A A C C C C A A A A G G A A A A G G A A C A A G A A A A G G A G G G A G C A G G G G$ A A A G G A G A A A G A A A $\mathcal{A} G G G G G G G G G G A G G A A A C A A G G C A G G G G$ ACGAAAGGCCGGGAAGAAAAGAACCAAGGGAAAAGAGAGGAG T T G G G A A A C A A A C A C CA A TAAC GAGAGGAAAAAACCGGGGGA $C C G A A G A G A A G G G A G G A T A C C C G A A A G G G G G G G A G G G G A G G G$

CAGAAACCACAACCGGAAAACCAAGGGGAGCAGGGGGGAGGA C C C C A A G G GAA GCC G GTTGGGGAGAGAGGAGAGAAAGGGGGA GACAGAGACCAAAAAAGGGGAGAAAAAAAGCGGGGGGGAGAA GAAACCAAAGACAACAAAGGGGCCAGGGACGAAGCCGGGGAA C CAA $A$ GAGGAAGCAAAGATAGAAAGGAAGAGGAAAAGGCC GA AAACCGAGAGGGAAAGAGACGGGGGGGGAAAATTAGAAAAAG GAAA A GAAAGAGAGAAAAGGGACCAAAAGGAAGAGGACAAAG
 A A A A A A A A A A G GAACCCCGGGAACCCAGAAAAGAAGGGGGGG1 CAAGAGGGGAGAGAGAAGGAGAGAACAGCAAGCGGAGGGGGG G GAAACGAAAGGGGCCGGGGCCGAGAACGGCCCCAAGAAAAG GAGGGGTAACGGATCCGGCCGAAGAGAGAAGGAAGGA
A GAA A A G A A A A A A C C G G G G G G G G G G G GAAAAAGGGGAACCGG G G A A G A A A A GAACC G G GAGAAGAAGAAGAAAGGGAAA GAA G G $A$ AAAA $A \operatorname{A} A A G G G G A A C C A A G G G G A A A A G G A A C C G G G G G G G G G G$ G GCCGGAAAAGGCCGGGGGGAACCAAGGAAAAGGAACAAAAA A A G G A A T T A A A A G GAA $A \operatorname{GGGGAAAAAAGGCCAGAGAGCAAGAA}$ A A G A G A A G G G A G G G G G A G G G G G A A G G G G G G G G A A G G G G C C G G AATTGGGAAAAGAAAAAAAGAGAAGGAGGGAGCCAAAGCCBA A G G G C C G A G G G A C A G G A G G A C A G G G A G G A C C C A A G G G G A A A A GAAAGAGAAGGAAAGGGGAGAAGGGGGGAAGGGGGGCCBAAA G GCAAGGAAGAAGGGGAAGGGGCAAGAAAACCCCGGAAAGAA G G G G A G G G G G A A A G G G A A A A A A G G G A G G G G G G A A A G G A G G G G G GAA A GAAAAGGAAGGAAAGGAGAGGAAAGAAAAGGCCAGGG GAGGAACCAGAAAGCAAGAAGGAAAGGGGGGGAACAGGGGGG C C A GAA A G GACAAAAAGGAGAAGAGGGGGAAAAAGAGAGAGA ACACACGGAGAGTTGGGAGGAGCAAGAGGAGGAGGGGGGGCC G G G G G GCAGGGGGGGGAAAGCCGGAAGAACAAGAGGAGAAAA GAAA A GAA $A \operatorname{A} \operatorname{A} A A A A C C G G G A A A G G G G G G G G G G A A A G A A A A G G$ $G G C C C C G G G A A A G G G A A G G G G A G G A C C A G G A G A C G B A A G G G G$ A G G G G G A A A A G G G G G G A A A A A A C C A A G G G G A C G G A A GA G A A A ACAGAAAGGACCGGAATTAAAAGGGGGGCCGGAAGGAAGGGG A G G GAAAACCCCAAGGAAGGAAGGGGGGAGGAAACCAAGGGG ACACGGGAGACCGGAAAGGGCCGGAGAAGAGGGGAAAACCAC A G G G A GA GACAACCAGCAAAGGAGAACCAGAGGGAGGGGGGG CACACCAGAAAAGAGGGAAGAGGGAAGGCCAAAAGAAAACGG GAAGAAGGACCCAGAGAGAAAGGAGGAGGAGGCAAGAGAGAG G G G GAAAGCCGGAAAGAGAACCAACCGGCCAAGGGGGGAAGA G G G G A A A A C C G G A A G G A A G G G G G G G G A A A A G G G G C C G G G G A A G G A A A A A A $\mathcal{A} G G \operatorname{G} A A G G G G G G A A C C G G G G G G G G G G G G G G G G G G$ AAGGGGAAGGAAGGAAAAAAAAAAAAAAAAAACCGAAAGGGG G G G G A A A A A A A A A A C CAAAAAAAACCGGAAAAAAGGGGAAGG C C A A A A A A A A A A C CAA $A \operatorname{A} A A G G G G A A A A G G G G G G G G G G G G A A$ G G G G A A A A T T G G G GAA G GAAGGGGCCAAAAGGAGAAAAAAAG $G G A A A A G G G G A A G A A A A A G A A G A A G G A A G G G G A A A A G G A G A A$ A GAGCCGGGGGGAAGGACGGCAGGAAAGAAGGAAACCAAGAG G G G G G A C C A A A A G G A A G G G G A A G G A GAGGAA A A A G G A G G G T A A G G GAAAACAAAAAGAGGGGAAAGAAGGAAAAAA GAGAGGAT
 A GAGGGAAGAGAGGGGAGCCAAGGACGAAAGAGGAGAAAAAA GACCGGGGAGGGAAAGGGCCGGAAGGAAGGGGAAGGCAAAAT
 G G G GCACCAAAAACAAAAGGAAAACCAGCAGGAAAAAAAAAC G GAAAAGGAAGGAAAAACGGAGAAAAGGACCCGACCAAGGCC A A A A G GACAAA $A$ A A GAGAGAGAGGGAGCCGCAAAAAAGGGGGG C CAGCACAGAGGAAAAAAGGAGGGCCAAGGGGAAGAAAGGGA TAAAAAAAAAAAGGGGGAGAAAAGGAGACCGGAAAAGGAGGG A A A GCAAACCGAAACCAAAAAAAACAAAGGGGGGGGGGAAAAG G GAGGGCACCAAAAGGAAAAAAAAGAAAGGGGGGGGGAAAAA

C GACAGAAAAAGGAAAGAAAAGCCAGAGGAAAAAAAAACAAA
 A A GAGGAAGACCACGACCCGAAAAGAGGGACACCAAGAAAAA GAGAAAAAAGGAGGGGAACCCCAAGAGGAAGGAGGAAAAAGA G GAA A G G G G G G GAGAAGATTGGGGGGAAAAAAAAAGAAAACC GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGAGACACAAAA AC G GAA $A \operatorname{GAAAAAGGGGAAAAAACCGGGGAAAAAACCGGACGG}$ $G G A A C A A G G G A A A G G G A A G G G G A G G G G G A C A A G A A A A A G G A A$ G G G G G G G G G GAGGAAACGGGAAAAGCGGGGCCAGAACAAAAA $C \subset A A G G A C C C G G A G G A A C G G A G G G A G G A A G C C A G G G A A G G G G$ GAAGCAGGAGGGGCAGGGGGAAGAGGAACCAAGGGGCCGGGG G GCCAACAAAGGGGCCAAGGGGAATTAAACAACAAAAAAAGBG G GAAGGCGCCAGGACACCACAAGAAAGGAAGGGGAAAACCAC C CAACAAAGGAAAAGGGAAGGGAAAAGGAGGGGAAACAAAAC AAAGCCAGAAGAACAAGGACAAGGAAGGCCGGAAGAAAAAAG GAGGACGGAACCAGGGAAGACCGGGGAGGCAGAAAACCXAAAA A A A A A A G G G GA GAGAAAGAAGAGGAAGGAAAAGGAACAAAAA
 $G G A A A A A A A A A A G A G G A A A A A G C C A G A G G A T T A A G A A A G G C C$ G G GAAGGGCCCAAGAGCCGAAAGGGAGAACAAAAAAACAGAG GAAAAAACGGGGAAAGAGGGAAAAGGAGCCGGAGAGGGACAG
 G G G G A A A G ACAAAAACAAACAAACCCGGCCAAGGAAGAAAGG G G A A A A G G A A C C C C G A A A A A G G A A G G C C G A A G A A GA G A G G G G G GAATTAGAAACAGAGAGAACCGGGGGAAGAGACCCGGAACA GAAAGAACAGGGAGGAGGGGAGACGGGGAACAGGAAACAAGG A A G G G G G GAGGGGGCCAAAAGAGGAAAAGGGGAGAAGGAGAA AACCGGGGAAAAAAAAGGAAGGAAGACACCGGGAAAGGACAAA CAAGCCAAACGGAAAGGGGGGGGGAAACGACACAGAGAATAG AGCAGAGGAGAGAAGAAAGAGAGGAAGAGGGGGGAAAACCGG A G G GCAATAAAGGAGGAGCCAAACACAGGGACAGCAGGTAGG A GAAAAAGGGCCAGGGAGGAGAAAGGAGAAGAGGGGGGGAAA G G G GAAAAAAAAAAGAGAGAAGGGCCGAAACAAGAAAGGGAA AA GAGGAAAATAAGAAAAAAGAGACCGAAGAGGAGAACAAAG GAAAGGGGAAGGGGCCAAGGGGGGAAAAAAGGGGAACAAAAA G G G GAAGGAAGGAAAAGGGAAGAGGGAAACAAAAGAAAAAGAG G GAAAAGGGGGGAGAAAGGGAACCAACCGGAAGGAGAACCGG G G G G G GAAAACCGGGGGGAGGAGGAGACAGAAAAAGAGAAAA
 A A A A G G G G A A G G A A A A A GAGGGGGAAAAAAGAAA G GAAAAA GA $G G A A A A T T A A G G A A G G A A G G A A A A A G A A A A G G A G A G A T A G A A$
 G GAGAGGGAAAAGGCAAGGAAACGGACCGAAAAAAAAAACCC C C G GCAAGAGCAAGGGTTGAAAAAAAGGGGCCGGAGCAGGGG G GAA $A \operatorname{GAA} G G A A G G A G C A A C A A A A G A G G G G C C A A G G B A C G G G$ A A A A A A GAGGGACCGGGGAAGGAAAGGGGAAAGAAGGAAAA G G G G GC C G G A A GAGC GAGGC GAG GAA G GACC G G G G G A G G G A G G
 G GCCGGGACCGGACCCGGGGGGGAGGGGCCCCCAGGGGAAGA AAAGAACCAAAAGGAAAAGGAAGGAGGGAAAAGGAGAAGGAG GAGAGATTGGAGGGGAGAAGGACGGACAAGAGCAGAAGAAGG CAAAGGCAAAGGAGGGAAGGAGGGAGGGGGAAGAGGGGAAAG GAGGGAAAAACCAAAAAAGGGGAGACAGAAGGAGGAAAAGAG G G G G A A G G GAAAAACCGGGGAAAAGGGGGGGGAGGAAAAGAA G G GA $\operatorname{G} G C \subset A A G G G G A A C A A A G G A G G G A A G G G A A G G G G G C A C A$ $A G A A A A A A G G A A A A G A G G A G A A G G G G G G G G C A G A A A G A C C B G$ GAAAAGCAGGCCGGGGAAAAGGTTAGGGGGGGAAGGCCAGGG AAAAAACCGGGAGACCCCGGAACCGGGGAAAAGGGGAABAAA G G G GCCGGAAAAGGGGGGAAGGGGCCAAAAAAAAAAAAGAAA

AACCAAGGGGGGGGAAAAGGGGGGGGAAAAAAGGCCAAAACC $T \mathrm{~T} G \mathrm{G} G \mathrm{G} A A \mathrm{~A} G \mathrm{G} G A A \mathrm{~A} G \mathrm{C} C \mathrm{G} G A A A A A A A G G C C A A A A C C G G G G C C$ G G G G G GAACCGGAAAAAAAAAAAAAAAACCAAAACCAA GAAA G G G GCCGGAAGGGGGGAAGGAACCGGCCAAGGAAAAGGAAGA CCAAGGAAAAGGGGAAGGAAAAAAAAGGGGCCAAAAAAAAAA C C G G G GAA $A \operatorname{G} \operatorname{GAAAACCGGGGGGAAGGAAGGAAAAAAAAGGAA}$ A A G G G GAA A G G G A A A A A A G G A A G G G GCCGGAGAA GAAA G GAA AA $\operatorname{A} G A A A A A A A A G G G G G G A G G C C A A A A C A A A A A G G G G A A G G$ C C G G C A G A C C G A A G G A A A G GAA $A \operatorname{GGGGGAATTGGGGCAAAAA}$ AACCAAGACAGAAAAATAAAAAAACCAAGGGGAAGGAAAAGA GACCAAGGAAAGGGAAAGGGGGCCCCGGCCGGAAAAGAAAGA GAACGAACCACAAAAGGGCCCCAAGGCCGGAAACAGA
GAAGGAGAGACCAGAGAAAGGAGGAGGAGGGGACAGGGAGG G G GA $A \operatorname{GGG} \operatorname{G} A A A A G G G G C C G G C C A G A G G G G A A G G A A G A A A A G G$ $A C A A C A G A A A G G G G A G A C A A A G A G A C A G A G G G G G A A G G A A A G$ GAGAAGAAGAGCGGAAGGAGAAAAAAGGAAAAGGAAAACCAC A A A A G A A G A A A $\mathcal{A} G G G G G G G A G G G G G G A C G G A G G G C A G A A G A A$ C CA $A \operatorname{GGA} C G G G G A A A A A A G G G G A C G G A A G G G G G G A A G G A A G G$ GAGGGGAAGGAAAAGAAAGGGCAGAACCAGGGAAAGAAAACC A A C C A A G G C A A A GAAA $A \operatorname{AGGGAGGGAGGGGGAAGGAAGGAACC}$ $C \subset A A A A A A G G G G C C G G G G C C G G A A C C A A A A C C A A G G A A G G G G$
 A A G G A A G G A A A A A A A A A A C C G G G G A A G G G G G G A A C C G G A A G G A ACCAAGGGGAACAGGGACGGGAAGGGGCCATAACCAAAACC A A G G G G A A A G A G G G G G G G A G G G G A CAG GAG GA A A A G G A A G A A AGGGAGACGGAAACGAAGAGGAAAAGGGGGAAAAAGGGAAGA GAGGGCGGAAGGAAGAGGGGGGGAGACAGGCCCAAAAAAAAA C C G C A C G G A A A A G G A G G G A A A C G G G G A A A CAAAA A GAA G G G A A GAA A G G G GAA $A \operatorname{ACA} G G C C A G C A G G A G G G G G A G G G A G A G G G G G$ GAAGGAGGGAAAGGGGGAAGAGGGGGAAGGGAGAAGCCBGGA A G A T A A A A A A A A G GCACAAAAAAAAGAGGAAAGAA GA GAA G G GAGGAACAAGAGAAGGAAGAACGAAAGAAGGAGAAAGGGGAG GAAGAGGGAAAAAAAGAATTAGCCAACGGGAAGAAACAGAAA GAGGGGCCGGGAGAAGGGCCGACGAAGGGGCCAGCCAAAGAA G G G G A A A A G G G A C C C A G G G GA G A G G G G A G A CA $A$ A A A G A G G G G
 G G G G G A A A GAGAAAAGCCGAAAGGCCGGAAAAGGAGAGAAAA G GAGGGAGGAAGGGAAAGGGAAAGAGGAAGAAAAGGGGGAGG
 G G G A A G T T GAA $A C C A G A A G A G A G G A G G G C C A A B G A G A A A A A$ G G G GAACAAGAGAAAAAAAAAAAAAAGAAGAAAACCGGAGAA C C G G G C G G G G G A A A A G A G G G A A G G GAGGGAGGCCCCAAAACC $C C G G G G G G G G G G G A G G A A A G G A A A A A A A A G A A A G A C G G C C A C$ A G G A C C G G G GCCAC G G G G G G T A A A C GAGGGAAGGAAGAACAA G GAGAAAGGGGGAAAAGAGGAGAGGAGGAAAAAACCGGAGAG A A A GCCGAGGAAGGCCGGAAAGGGACGGAAAACCAAAGAAAA C C G GCCAAACAAACAGAATTAAGGACGAGAAAAAA GAGCGGG G GAAGGAGATAAACGGAGAGGGGGGGAGGGGGAGAAGAGAAT AAA A G GAA A A A GAGGGGGGGAAAAGGCAAAGAGGAGAAAACAC GAGGAAGAAAGAAGACAGCAGAAAGAGAGGGAGGAAAAAAAA A G G G G A G G G GCCAA $\mathcal{A} G G G A G A G C A A G A C A G A C A G A A G G G G A A$
 AAAAGGGGAAATAGCCAGCCGAAGGGAACCGGAGAGATACAG CACAAAAAAAAAGGAGAAGGGAAAAAGGAGAAAAAAAAGAAA G G G GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A \subset A G A A A G A A A G G G G G A G G G A A G A G A C A G A$
 A A A G A G G G A A G G G A G G A A GAGGCCCCGGAGAAAAAAAA GGGG GACCGGCAGGAAAAAAGGAACCGGGGAAGGAAAGCCGGAGGG G G GAAAGGAGACCCGGAGCCAAGGGGGGAGAAAGCCGGAAAC

A A A A G GAA $A \operatorname{GG} \operatorname{A} A C G G A G A A G G G G A A G G G G C A A G A A G G G A A A$ GAGAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAAA C C A G GAGAGAAAGGCGAGAAGAGAAGAAGGGAAAAAGGAAAA $C \subset A A G A A G G A C C C C G G G G A G A A G A A G A G G G G G A G A G C C A A A G$ A A G GAGGAGGGGAGGGAGAGAGGGGGAGAGGGCCAGCAAAAAA G GAAAAAGGAAAGGAAGGAGAAAACCGAAGAGGGCCAGAGGG A A G G A A G G G G A A G G G GCCAGGAGACCAGAGCCGGAAGAAAGG AGAAAAAAAAAAGGGAACAAAAAAAAAACCGAAGCCGGACGA A A G G A G G A A A G A A A G G A C G GAGAAAAAAGGGGCGGGAACAAA AAAAAAAGGAAAGGGGACTAGAGAGGGGAAAAGGAACAGGAA G G G GAA $\operatorname{A}$ GAAAAAAAAAACAAAGGAAGGAAGGGAAAAACACC C CAA A G G G G G G GAACCAGAAGGAAGGGGGACCCCAGAGAGGA A A GA $\operatorname{A} G A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{~A} A A A A A G G C G A A A G A A C G C C A A G G G G A G G G$ A A A A A A A G GAAGGAAAGATTGGAGAAAAAAAAAAGGAAAAGG G GAAGAACAAGGCCGAGAAAGAAGACACAGACAAGGAAGABA G GAGCAAAGGGAAGAGAGGGGGGAAACCGGAAAAAAGGGAAA A A A G GACAAAAAGGAAAAAAGGCCAACGGGGGAGGACCAAGB G G G G A A A A A A A GAGTAAAGAGAAAATAAACAACCGGCAAA G G A G G G TACCAGGAAAGAAAGGGGGGCGAGAGAAAGGGAAACTT GAAA A A G G A A G A GAGGTAAGAACAAGGGAAGACCAAAGAAAG G GAGACGGAAGGGGAGAGCCGGGAGGAAAAGGAAAGAAAGAA GAGGAAGGGGCAAGGAGGAGAAAACAAGAGAAGAGGGGAAGG G G G A G A G A G A A GAGAGGAGGAAAGGAGAAAGGGGGGCCAACC GAAGGGCCGAGGAGAAAGGGAGAGAAGAAAAAAAGAAAAAGAG G G G A G GAGGGCCAAGGCCGGAAGGAACAGGAGAAGAAAAAAA $C \subset G G C A T A A A G G G A A A A A G G G A G G G G G G A G A A A A A G G G A G G G$ G GAACAGAGAAAAGCCGGAGCCAAGGACAGAAAAAGCCAAAA GAGGGGAGGGGGGGAAGGAAAGAAAGCCGGAGAGGGGGAGAG A A G G T T G G G G G A G G G G G GAAAAACCCCAAAGAGAAAACCAGAA G G G G GAGAAAAAAAAAGGGGAAGGAGAGGGAGAAGGAGAAAA A GAGGAGAGGAACACCAGGGAAAAAAAAGGAGCCGGGGAAAA GGAAAGCCAAGAAAGAAAGAAGAGAGACGAGAAAGAGAACAA A GAACAGGGGGGGGGGAGGGAAAAACGCGGGGAAGGAGAAGA
 A A A A G GCCAAGGAAAAGGAGGAGGGGAAAAGAGAGGAAAACA A A G G G G A A A A A A G A C C A A G G G G A A A A A A TA A GACCCTTAA G G AACCGAGGAAGGCAGAAGGAAAAAAGGGGATAGAAAGGAGGA GACAGAGAAGGGAGGGAAAAGAAAGAGAGGAAAAG GAATTCC AC G G G G A A A A C C C C G GCC G G G G G G A A C C G G A A A A A A G G G G A A G GAA A G G G G GCCCCGGAACAGGAAAAAAAAGGAGGGAAAGGG A G G G G G A A A A A A G G G G G G A A A A G GAGA GAAA A G G C C A G A G G G
 GAAGAAAACCACGGAGGGGAGGGGCCAACCAAGGAGAGAGAA G GAA $A \operatorname{GAAA} G A A G A G A C C A A A A A A G G G G C A C A G G G G G A A A G A$ T TAACAAAGAAAGGAAAAGGCAGAAAGGACAGAAGBABACGG G G A A A A G GCCCAGAGGGAAGAACCAGACAAAAGGCCAAACBG G G G A A G G G C C A A G G A A G G G G G G G A C C G G G G G G A A G G G G A A A A G G G GAAAACCGACCGGAGAAGGAGAAAAAACGCAGGGGGGGA $A G C C A G G G A A G G A A G G A A G G G G G G G G A A G G G G A G A G G G G G G G$ A A A ATTAAGGAACCGGAAAACCAAAAAAAAGAAGAAGGAAAG GAGAAGACAGAAGGAGACGGCAGGAAAAGACCAAGGAAACAA
 A A G G A A C A A A A A C C A G G G A A G G A G A C A A G G G G G G G A G G G G G G AAAAAAAGAGGGCGGGAAAGAGGGGGGGAGGGAAGGAAGGGA A G G GAA A GAGAAGGAGGGAAAAAGCGAAAAAAAGGAGGAAGAA G G CA $\operatorname{G} G A A G A A T C C G A G A G G A G G A G A A G A G G G A G A A G A A G A G$ G GAA $A$ A $A G G G C C A A A A A A G G G G A A G G G A G C X A A G A A A G A G G G$ A A A G G A A G A G A G G G A A A A A A C A A A GAAA G GAAAA A G G G G G A A GATAAGACAAGAGGCATTACAGGCAAAAAAGGGGAAAAGGAA

AGGACCGATAGGAGAGGAAAAAGAAACCGAGGAAGGAAGAAA $A G G G A A A G G A G G G G A G A A A A A A G A A G G G G A A G G G G A A A G G C C$ G G G GAAGGAAAAAAAACCAAGGGGAAAAAAAAAAAAAAAGAC A GAGGACGAAAGGAGAGGAGGGGGAGCAAGGGCGGAAGGGGG G GAAAAAGGAAAGGGGCCGGCCGGGGAAGGCCAACCGGGGAG A GAAA $A \operatorname{G} G A A A A G G A A C A A A C C A A A A G G G G G G G G G G A A G G G G$ G G G G G GACGGAAGGAAGGAAAAGGAAACAGAGGGAGAAGGAA GAAAGGAAGGCCGGGAAAACGGAGGCAGGGAAAAGGGGAAAG GAGGGGGAGGGGCCACACGAAAGAAAGAACGAAGAGAACAAA AACGAAGGAAAAGGAAAAGGCCGAAAAAGGCAAAAAGGGGAA G G G G A A A A G GAAAAGGAGGGGGCCGACAGAAGGAAGCAAAAA

GAGAGGGGGGGGGCCGGGGAAGGGGAGAGAGAGGGAAGAGG
 AAGGAAGGCCGACCCCAAAAAAGGGGAAACAGAGGGAAAAGG G G G GACGGGGAAGGAAGAAAAAGAAAGGGACCGGAACAGAGA GAAGGGGGGAGGGGCCGGACGGAAGGCAAAAAGAGAAGAAAG
 CACCAAAAAAAAGGAGGGGGAAGATAGGGAAGAGGGGGAAAAG G G A A A A G G A A G G G G A G GAGGAAAAAAAGAAAACCGGAAAAG G G GAAAACCAGAAGAAAAAAAGGGAAGCCAGGGGGGGGGAAGA GAGGCAAAGAAAAGAAGACCAAGGGGGGGAGAGAACAAA GAC AC G A A GA G GAAAGGAGCAGGCAGGGAGGGGAGAGGGAAGAAA GA $\mathrm{A} G \mathrm{G}$ A A A A A A TAA $A \mathrm{~A}$ GAGAAGGAAGGGGGGCCGGAAGGACAG
 G G G GAA A G G G G G G G A A A GAAAGAAAAAAGGAAGGAAAACAAA $C \subset G G A A A C A A A G G G A A G G A G C C A A A A A A A A A A A G A G A C A G G G$ A G G A A A G A A G G A G A G G G G G G A A A G A G A G G G G G A A G G T T A C G G G G G G A G A A A A G GCACAGACAAGGGAGGAGGGGGGAAAAGAGG CCGGCCGAAGAAAGGAGGGAGGAGCATAAGGGAAGAAAAAGG A A A GAGAAAAAACCGGAAGGAAGAAAGGGGGGAACCCCAAGG G GAAAGGAAAGGAACCAAAAGGAAAACCAGGGGACACAAAAA A GAA A C G G G A A A A A A A GAA A G G G G G G A A A A T A G GC CA G G GAA A G G GAA $A \operatorname{GGGA} A G G A A G G C C C C G A A T A G A A G G A A A G A G A A A A$ AAAAAAGGAACCGGGAGAAGAATAGGCCAAGGGAAAAACCAC GAGAGAGGGGGGGGAAAGGGAAGGGAAAAGAAAAAAGGAGAA A A A GAACCGGGGGGGGGGAGAAAAGGGACAAAGGAGCCAAAA A GAAAGGGAAGGAAAAAGAGAAAAAGGGACAGAAAGAAAAAA A A G G A A G GCA $\mathcal{A} A \operatorname{A} G A A G G C C A A G G G G C C G G G G G A A C G G C A A A$
 G G G G G A A G G GAGAGAAAAGGAAGGGGGGCAAGGGGAAAAAAA G G A C A A A A G G A A A G A A A A G A G A G G A A G G A A A A G G A G G A A A G A GAGAGGAAAACCAAACAGGGGGAAGAAAAAAAAAAAGGAAAA AAAAGGGGAACCAAAAAGGAAAGGAAAGGGAAGGGAGAGGGG A A A A A GAAAAAAGGCCAGAAGGCCCAAAAGGGAAAGAAAAGG A A A A A A A A A ACCGGAGAAGAGAAAAAAGGGGAGACCGGAGAA C C A A A A A A A GA GAAA $A \operatorname{AGGCCGGGGAAAAGGAACAGGGAAGAA}$ G GAGAGAGAGGGAAGGAAGAGGACAAGGGGCGGGGGAAAAAA G G G GAAAAAAAGGGGAAAGGAGAGAAGGAGAGGGAGAAAACA ATCCAGGAGAAAAAAGGGAAGGCCAAAAAGAAGGAGAAGGGA
 GATACCAAAAGAAGGAGGGAACCCGACCGAGGAGGAGAGGCA G GAGAAAGAGAGAGGAAGAAGAGGGGAAAACCGGCCAA GAAA G G G GAACCGGAAGGAGAAGAGGGGACAAAAACAGAGAGCCAG A A GAGAAGGGGGAAAAGGCCGGAAAAAAAGAGCCCACACAAA G G G G G GCAAACCAAACAAGGAGCCGACCGGAGCAGGGGGGGG GAAGGGCCACAAGGCAGAAGCAAGGGAGAGGGGGAAGAAGAG A G A A A A GA GAA A A CAA A A A A GGGGGGCCAGGGGGGGCAAAA G GAAGGAGGAAGGGGAGAAAAGGAGAGCCGAAGGAAGAGAGAA

AAGGGGCAAACAAGGAAAGGGGAAGGAAAAGAGAGGGGGGCA A A G A G A G A GAAATTAGGGCAACACGAAAGGGGGGGAGGAGAA AAGGAGGAGAAGCGAGACAGGAAAAGGAAAAACCAAAACAAG G GAAA A GAAAGGGGGGGGGAAAGGGGGAGAAAATCAGGAACAA GAAGGAAGAGGGGAGAGGGGGGGGGGACAAAGCCGAAAAAAAA A A A G G GACGGAGACGGGACAGAAAAGGGAAGATTCACCCCAA AACCAAGAAGGGGAAAGAATCCACAAAGGAGGAAACTTGGGG AAAAGGAAAAGAAAGGAACCAAGGAAAGAGAAGAGGGAAACA G GAAAAGGGGAAGGAGAAGGCCAGGGGAACGAAGAGAACCCC AACAGAGGAAGGAAGGAAAAAAAACCAAGGAAGGAACCACCC $C \subset G G A A G G A A A A A A A A C C G A A G G A G G G C G G A A A G G G A G A G A G$ GAGAGGGAGGAACCAAAACCAGAGGACCGGAAAACCAAACAA $A G C C G G A A A A A A G G G A A A C C G G G G G G G A C C G A A A A A A A G A A G$ A A A G A GAA A A G G G GACGGGACAAAGAGGAAGACCGAAAGGCC AAAGGGGGATAGAGGAAGAAACAGGGAGAGGAGGAAGGGGCC
 G G G G A A G G A A A GAA A G G G G A GAAAAAAGAAAGGCAAAGAAGAC GAGGCCAGAGAACCCCAGGAGAAAAGGGAGGAAGAAAAGGGG AAAAAAGGAGCCGAAAAGAACAAGAGGAGAAGAGGGGAAAGG A G G A A A G A G G A A CAAAAAAACCGAAGACAAGAGGGGAAAAAA AAAAAACAAGGACCCCAAAACAGGAGGGGGTAAGGACCGGGG GAAACCGGAAGGGGAAAGAGAAAAAGGAAGGGAGGAGAAAAG A A G G A A A A G G G G G G T T A A A A C C G GAAGGGGGGAA GAA G G G A A GAAGAGGAAGCCGACCGGAAGGAGAGACGGAAGGAGAATTGG G G GAA $A \operatorname{GGG} \operatorname{G} A X A G G G A G A G G G G A A C C C C A A A C A A G G G G A G A A$ G G GAA $A \operatorname{GGA} C G A A G C C G G G G G G G G A A T T G G G G G G G G G G G G G G$ A A A A G GAA A GCCTTAAGGGGGGGGAAGGAAGGAAAAAAAAGG AACCAAGGAACCCCAAAAGAAAAAAAGGAAAAAAGAAAGGGG AAAAGGAAGGGACAAAGAAAAGAGCCAGAACAAGAGCCAAAA AAAAGGGGAAAAAGGGGGAAAAGGAAAGAGGGAAAGGGAAAA G GCCAAAAAAGGGGAAGAAAGGGGAAGGAGAAGGAAGAGGGG G G GAA A A G GAGGGGAAACGGAAAAAAGGCCGGAAGGGAGAAC $C \subset T$ TA $\operatorname{CAAA} A A A A A A A A A G G G G G G A A G G G G A A G A A A G G G G G G$ G GCCGGGGAAGGCCAACCGGAAAAAAAAAAGGGGGGCCGGGG AAGGAACCAAGGGGCCGGCCGGCCGGCCGGGGGGGGGAAAAG $G G C C G A A A A G A G A A A A G G A A A A A A G A G G G G A A A A A A G G A A G A$ G G G G G GAA $A \operatorname{A} A A C C A G A A G G G G G G G G C C G G A A G G A A A G A A G G$ TAGGAACAGGAAAGGAAGGGGAGAAGACACAGGAAGGGAACC A ACCACAAGAAGGGGGGAAAGGGGACGAGGAAAACACAAAAA $G G C C A A G A A A G G G A A A A C A C A G A G A C G G C A A A G A A A A G G G A A$ C C C C G G G G G G G G G G G G A A GAGGAAGGAAAAAAGGAAAAAGAG G G G A G G G G G G A A G A A G G A G A G G A A A G G G A G G A A C A A G A G A G G G GAGGGAGAAAAAAGAAAGGGGGAGAGAAACCAAAGACGAGG G G G G A A A G GA G GCAAGAAGAAAAGGACCAGGAGGAGAACAAA GGCCAAGGAAAACAGGAAAAGGAAAAAAAGAGAAGGCCAAAA A A A A C C A G A A G G G GA $\operatorname{C} \boldsymbol{A} G G G G G G A A A A A A A G G A G G G G G A C C A A$ AAAGAAGAGAGGGGAGAAGGCAGAAGGAAGAGAGAAGAAAAG G GAAAAACCCAACCGGAAGGAAGGCCAAAAAAAAGGAAAAAA AAACGGGGAAAACACGCAGGCCCCGGACAAAAGGAAAGGGAG AAGAAGGGGAAACCCCAGCCAGGGAAGGGAAGGGGGCAAGAG G GAAACCCAAAGAGGAAACAAAAAGGAACCACAAAGAAAABA G GAACCAGAAGGAAAGGGACGGAAGGAAAAGGAGGGGGAAAAA A GAGGGAGAGGGGGCAAAAATAAAAAGGGAGAAGAGAGAGCA GGGAGGACACGGACGGCCGGGGGGGGAAAGAGGAAAAAAGAG ACGGGGAAGGAACCGGAAAGAACCCCGAGGGAGGCCCCAAAAA A A A A G GCA $\operatorname{A} A \mathrm{~A}$ GACCAGGGGGGGAGAGGAGGGGAAAAACAGGG
 $A G A A A G A G G G A A A A G A G G G G G G G A A G G G A A A A G G A A G G A A A A$ AAGGAAGAGAGAAGACAGGAGGGAGGAAGAGAGGAGAGAGGG

G GAA A GAAAAAAGGGGGGGGGAAGGAAAAGGAAGGGGAGAA
 $A G C C A G G G A A G G G G C G A G G G G G A A A G A A A C A G A A A G G G G G G G$ $C C G G A A A A A A A A G G G G A A A A G G A A G G C A A A A A A A A G A A C A G G$ AGGGAAGAGACCACACAGCCAAAAGAAAAAAAGGAAAGAAGG G GAGAGGGAAAGAAAAAAAACAGGAAAGATGAGAAAGGAGAA A A A A A A A A G GAAGGCCAAAAGGGAAAGGAGAGAAGAACAAGA A G G GAAAGCCAGGGGAGGAAGGACGGGGCCAAGAAGAAAGAA CAAAAACCACACAACCGACAACGGGAAAAAAAAAGAGGAGAA A A G G G GCCAGGGAACCGGAAAGAAGGAAAAGGGGGGCCAAAA C C GAGAGGAACCACGGAAAGAAGGGACCAACCAAGGAAAAGG A A G G G G A A G GAA A G C C G G A A A A G G A G A A A A A A C A G G A
GCCGGCCGGAAGGGGGGAAGGGGCCAACCGGGGGGAACAGG A A A A G GACAGAAGGCAGGGGAGGGAAGAGGAAAAAAAAGGGG G GCCGGAAGAGGCAGGAGGAAGAGAAGGAGGAAGCCAAGAAA G GAA A G GAGAGGACGGAAAGGGGAGGAAGGGGGAGGAAAAAA G G G GAGGGGGGGAAAAGGAGAAAACCAAAGCAGGGGCAAAAC ACAGAAACGGGGATGGGGGGCAGAAAAGGAGGGGACAGCCBA G G G GAAAAGAGGAAAGGGGAAGAGAGGAGAGAGGCCAACAAA $A G A A G A G G G G G G A G A G G G G G A G G G G G G G G G A A G G A G G G A G A A$ GAGGGGGGAGGGGGGGGGAAAGGAAGGAAAGGAAGGAAAGAA G GAAAAGAAAGGGAGAAGGGGGCCGGAACCGGCAGGGGAAAG A A A G G G A A A A A A A A A A GAGAGGGGCAGACCCCAGA GAGAGGG G G G A G G A A A A C C G G G G G G G GAACCCCGAGGGGAGGGAGAAG G G GCAA C G G A GAGGAGGCCAAAAAGAGACGAAGGAAAAAA GAA A G G A A GA $\operatorname{A} A A A \operatorname{A} A \mathrm{~A}$ GAAAGGGAAAGGAACCGGGGAAAAAGCA $A G C C A A A A A G A G G G A A A G A G G A G A A A A A A G A A C A G A G G A G G G$ GACCGGGGGGAAGGAAAAAAGAAACCGAGGAGAGCAGGGGGG G G G A A A G A GAGAAGAACCGGAAGGAAGGACAGAAACCAGAAA $G G A A G G A C G A G G G G G G G G A A G G G G G G G A G A G G G G A A G G A A G A$ A A A G A G G G A A G G G G A A G G G G C A G G A A A A G G A A A A G G A A G G A G $A C G A A A A A G G G G G A A A G A G A G C G G G A G A A A G G C A G G A A G G G G$ C CA $A \operatorname{GA} A \operatorname{GA} A C A A A G G A A A A G G A A G G G G A A G G G G G G G A A A A A$ A A G G A A C G G G G C G G G G A A A A G G G G A A A A G G G G C A A G G G A A G A G GAGAGAGAAAAGGGGGGAAGGGAAAAAAAGAGAAGAA GAAAA
 G GAAGATTAAAAAAATAGCAAGGAAACCGAGAAAAGAAAAGG A A G G G GAA A GCC G G G G G GAA $A \operatorname{AGGGGGAA} G G A A A A C C G G C C G G$ A A G GAA A GAAAAGGGGAAAACAAAAGAGAGCACACCCAGAAA C C A A A A A G A A A G G G G GCCAAACAGGGCAGGGGGACAGAAACA AAGGGAGAAAAGAGGAAGGGGGGGCGCCAACGAAGAACGGAG A G GAA A G G A A G GAAGGGACCAGAAAGACAAAAAAAAAAGAAG G GAAGGCCGGGAGGAAGGAGAAAAGGCGCCGGAAGGAAGAAG
 AAAACGAACCAAGGAAAAAGAGCCAAAAGGGGAAAGAGAAAG G G G G G GA G A G A A A A G G A A A C GAAA A GAGAACGATCCGAAG G G
 G GCAAGGGAACCAAAGAGGAAGGAAGGGAAAAGGCCTTAAAA
 A A C C G G G G G G A A G G A A $\mathcal{A} G G G G G G G A A G G G G G G G G A A A A G G G G$ G GCCCCAAAAAAAAGGGGGGAAGGAAGGCCGGAAGGCCGGGG AAAAGGCCAAAAGGAAGGAAAAGGGGAAAAGGAAGGGGAAAA G G G GAAAAAAAAGGGGAACCGGAAAAGGAAGGGGAAGGACAA C C G G G G A A A A A A A A A A G GAA A A G GAAGGAAGGAAAAAAAAAA G G G G A A C C A A G GAA $A \operatorname{G} \operatorname{A} A A A A G G G G G G A A G G G G A A A A C C A A G G$ A A G G A A G G G G A A G G G G G GCCGGAAAAAAGGGGGGAAAACCCC G GAAGGAAGGCCAAGGAACCAAAAAAAAGGGGAAAACCACAA C C A A C C G G G G G G A A G G A A A A A A G G G GAA A C CAAAAAA A G G G A A G G G GAAAAAAGGAAAAGGAAGGAAAAGGGGCCAAGGCCBGAA

G G G G G GCCGGAAAACCGGAAGGGGAAAAGGCCAAGGGGGGGG G GAA $A \operatorname{GAA} G \mathrm{~A} A A C C G G A A G G C C C C A A G G A A A A G G G G G G G G G G$ G G G G G G G G A A G G A A G G G G G G G G A A A A A A A A G G G G G G A A A A A A GGAAAAAAGGCCGGAAAACCGGAATTAAGGAAGGGGAAGGTT AACCAAAAGGCCAAGGAAGGAAAAGGAAGGAAAAAAAAAAGB G G G GAAAAAAAAAAAACCGGAAAAGGAAAAGGAAAAAAGGAA $A A G G A A A A A A G G A A G G A A G G G G G G G G C C G G C C G G G G G G G G G G$ A A G G G G G G A A A A T T C CAA $\mathcal{A} G G G G G G G G G A A G G A A A A G G A A C C$ A A G G G G A A A A G GAAAAAAAAGGAAAAGGAAAAGGGGAACCCC G GAAAAAAAACCAAAAAAGGGGGGAAAACCGGCCGGGGAAGG C CAAAAAAGGAAAAAAAAGGCCAAGGGGAACCAAAAGAAAAA A A A A A A A A C C G G G G G GAAGGAAAACCAAGGCCAAGGGGAGAA $G G A A A A G G A A A A G G G G G G G G A A A A C C G G G G G G A A A A A A G G G G$ A A A A $\mathcal{A} G G G G G C C G G G G G G A A G G G G A A G G C C A A A A G G G G A A G G$ AAGGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAAGGAA AA G GAAAAGGGGAAAAAAAAAACCAAGGGGAAAAGGGGGGAA
 A A C C A A G G G G G G C C G G A A G G G G A A G G G G C C G G G GC C G G G G C C C CAAAAGGGGAAGGGGGGGGAGAAGAGGGAGAGGAAAAAGAG G GAAAGGAAGGAAATTCCAGAAAAGGCCGGACAAAAAAAAGBG G G G GAAGGGGGGGGGGGCGGAGAAAAAGCAAAGGAACCAAAA G G G G GACAAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAGG
 G G G GCCAAGGGGAAGGGAGGCCGACAAGAGGAGAAAAAGAGA GAAAAGCCAGGGGGCCAGGAGACAGAAGGATTAAAAAAGGAA GAGGAAGGAGGGGGAGGGGGAAAGAGACGGGGAAAAAAGGAG GAAAAAAAGAAGAAGAGGGCAGTTAAAGAGAAGAAAGGAAAA
 A GAGCCGGACAAAAAAGGAGCCACGAAGAGAAAAGGGGGGAG AAAAAAAGACGGGGAAAGGAAGAAGGAAGAGAGGAAGGACAG A G G G G GAA A A A G G A G G CAAACCGGGGGGGGAGAGCCAAAACC ACAAGGAAAAGGGGCCGGGGGGGAGGGAAAAAAAGGAAGGCC A A A GAA A A A G G GAGAGACGGGGGGAGGAGGAAAGGACAAAAA A A G A A GACGGAAAAGAAAGGGGCACCCCCCAGAAGGGGAAAG
 G G G G G G G G A A A A A A G G A A A A A A G G G GAACCCCGACAAGACAA C CAA $A \operatorname{GGG} A A A G G A G G G G A A A A G A G G A A A A G G A C A C G G G A G A$ AAAGGGCCAAGGAAGGGGAAGGAAGGCACCGGAAGGCAGGGG A GAA A A A GAC GAGAAGAGCCTTGGAAGGAATTAAGGGGAGAA G G A A A A G G G G G G T T A A $\mathcal{A} G G G G G A G A A A C A A A G A A A A G G A A G G$ A A A A A A G G A GAGGAGGAAGGCGATAAGAGAAAAAAGGGAA G G $A$ GATTACAACCAAAGAAGGGGAAGAGGTAGGAAAAAAAABAGG AACAGGGGAACACAGAGGGGGGAAGAAAAAGGGAAAAAAAAA A A GAACAAAAAAAACAAAGGGAAAAACCGAGGAGAAGGAAAA
 GAAACCAAAAAAAAGGAGCCGGCCGGGGGGGAGAAAGGAAGG A GAGAAGGAAGGCCAAGGCAAAAAAAAAGGAAGGAACAAAGG AACCGGGGGGAAGGGGAAAAAAGAAAAAGGAGAGGAAGAAAA GAGGAAGGAAAGAAAGGACAAAGAGAGGAAAGCACCCCAAAA
 CAAAGAGAAGAGAAAAAAGAAAGGAGGGAGAGAAAGGAAAAG G GAGACAGGGCACCGGGAGAGGCCACAACCAAGAA GAGAGAG

 GAGGAGACGGGAAGAGGAGGGGGAGGAACCAGGGCCGAAGAG
 G G G A G G A A A G G G G G G G G G G C A A A A C C A A G G CA $\mathcal{A} G G G G G G G C C$
 A A A A GAGGCAGGCCAGGAGAGGGGAGGGAGGGCCGGACAGAA

G G G GAGAACAAGCCGGAGGAGAGGCCGAAAAAAAGGAGACAA CACCGGAAGGAGAAAAAACCAAGGAAGGAAGGGGGAAAAAAA GAAAAAGGGGGAAACAGAGGGGAGCCAGAAGGAGGGCACCAA AAAAAGAGGGCAGAAGAACCAAGGAGAGGGAACAGAGGAGGG CAGGGAAAGGAAGGGGAAGGGGGGGAGAAAAAGGAAGAAAAC G GAAAACAGGAAAGGGGGGAAGACAACCAAAAACBAAGAGAG GCAACAGGAAAAAGAAAAGAGGCCGGAAAAGGAAGAAAAACA C CAAAAGGCCGGCCAAGGAAGACCAAAAAGAACCGGGGAGAG A A A G G A T T G G A G CACACAACGGGGGGAACCGGGGGGACAAAA $C \subset A A A A A G G G G A A A A A A G A G G G A A C C G G A A C C G A C A A A A A G G$ G GAAAGAGAGGAGAAAAAAAAACCAAAGAACCGGAACCAGAC $A G T A A A A G A A A G G G G G A G G A G G A A G A G G G G A A G A G G A$
AAAGAAGAAAAAAGGGAGGGGAACGCGAAGGGGAGAAAGAG A G G G GAAGCCCCAAAACAAAAAGGAGAGGAAGAGATAAAAAA $C C G G G G G G A A A A A G G G G A C C G G G G G G G A G G G G A G G A A A A A A G$ GACAGGCCGAAGGGGGGAGGAAAGGAAAGACCGGCAAAGGGG $A A C C G G A G A A A G G A A A G A A G G A C C G G A A G G G A G G A A G G A A G A$ A A G G A A A G A A G G G A A A G GAAA $A \operatorname{AGGAGAAAAAAAAGGGGAGAA}$ CAGGGGGGGACCGGAAGGAAAAGGAAGGAAAAGGCCGGAAGAG G G G G G G G G G GAACCAAAAAAGGGGCCAAAATAGAACAC GAAA GGGAAAGGGGGAGACCGAAGAAAAAAAAGAGGAAGGCCAGAC AAAGGGGGGAGAAGAACAAAGAGAAAGGAAGGAGAAAAAAAA G GCCCGAAGGAAAAGGGGGGGGGGAAGGAACCGAGAAAAAGG G G G G G A A G G G A A G G C C A A A C A GAC G GCCAACCAA G G G GAA G G A A C C G A G G A A A A G G A A A A G G G G G A A G C C G G T A A A G G G G A A A G G GACAAAGAAAAGAGGACAACCAGGGAAGGAAGAAAGGGGGG G G G G G GAAAAAAAGGGAGAAGGGGAAAAAGGGGA GAAAAGAG GACACCAATTAACCCGAACCGGGGAAAAAAAAAAGEAAGGAG CAAGCCAAAAGGAAAAGGAGGGAACCAGCAAGATCCGAAAAA $G G C C C A G A G A A C A G A G A G G A G G A G C C G G A A G G A G C C G G A A A G$ G G G G A A G G A A G GAAA $A \operatorname{AGGAGCCGGAAAGAAAGACAAAAAAGG}$ GGACCCTAGGAAAGGGGAAACCGAGGCATAGGGGGGCAAAAG A G G A A A A A G G G GA $\operatorname{A} G A G G G G A G G A A A A A A G A A G A A A G G A G A G$ C C G G G G G CAGAGGGGAAAGGAGAAGGAAGGAAGGGAAAAAAA G G A A G G G G A G G G CAGGCCAGAGGACCACAGGGGGAAGAAACA A G G G A CAGGAGGAGGGCCAACCGGGGGAAAAAACGACAAAGAG A G G GCAAGAGAAGGGGCAATAGAGAAAGCACCAAAAGGGGAA GAGGGACCAAAAAAGGCCGGAGGGAAAAGAGAGACAAGAACC GAACCAGAGGGAGGAAAAAAAAGGGAAAGGGAAGTACBGGAG
 $A C A G A A G A G A A G G G A A C C G G A A G A A A A A C A G A A C G A G A A A G G$ G G G G A A A C A A A A G G G G G A A A A A A G CAAAAAAAATGGACAGGG C C A A A GAA $A \operatorname{GGAA} G A A A T A A G G C A G A A G A A C A A G G A A A G A A A$ AAGGAACCGAAAGGAAGGCCCCAAAAGGGGAAGGGGAGAAAAA G G A A A A A A A A A A GGCCGGCCAAGGCAAAAAGGCAAAGAAGAG G G GAAAAGACGGAAAGGGAAGAGAGAGAGACCGGAAGAAGGG
 G GACTTAGAGAGGACCAAAGGGGAGGAAAAAAGGAGCCAGBA A GAGAAAAGGGGAAAAGGGGGGGAAAGGAAGGCCAAGAAACC A A G GAAAAGGAAGGCCAAGGAAGGCCGGAAAAGGGGAAGGCC G G G G G G G G A A A A A A G GA $\operatorname{A} A \mathrm{~A} A A C C G A A C G G C C G G C G G G G G C A$ G G G G G A A A GA $\operatorname{A} G \mathrm{G}$ GAGGAAGGGGAAGGGGAAGGAAAGAGAGAA $A C G A G G G A G A A G G A G G C C A A A A A A G G G A G G A A A A G G G G A G G G$ AAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGGAACC G G G G G GAA $A \operatorname{GAA} A G C A A G A A G G C A G G G G G G G G G A C C G A A A A G$ GAAGGAGAGGAAAAAGGAACAGACGGAAGGGGACAGGGCCGG G GAAAACCGGAGGAAAAGAAGAGGAAAAGGAGGAGACAAGAG $G G A A A A A G G A C C G G A G G G A A G G G G G G C C G G A A C C A A G G A A A A$ AAAAAACCGGAAGGAGACCCGGCACCCAACAAGGAGGGGGAA
 $A G G G G G G G G G G G A A G A C C A T A G A A G G C C A A G G G G G G G A A A G B$ C G G G G G A A G GAAC A $A$ A A G G GAGGGGGGCCGGAAGGAGGGAAAA G GAGAGAAAGGGGGGGAAAAAAGAAAAACAAGAAAAAGGAGG AAAAAAGGAGGGAAAAACGGAGAAAAGAGGAAGAAAGGGGAA GAAA $A \operatorname{A} G A C G A G G A G A A G G A G G G A G A G A A A A A A C C B G A A A G G G$ G G GAA $\operatorname{ACC} C A C G G G G A A G G A A A A A G G G G A G G G G A A A A G G G G G G$ $G G A A A G G A A G G A A A A A G G C C A C G A A C A C G G G G A G G G G G C A G G$ G G A A A A G G G GCCAGGGAAAGCCCCAGAAAAAACCAAAAAGAA GAGGAAGGGGAGCAGAAGAGGAACAGAAAGGGAAGGGGAGAG G GAACCAGAAAAAAAAGGGGAAAAGGAAGAAGAAAAGAAGAG GAGGGGGAACGAGGACGGGGAAAACAAAGGAAAGGGAAGGAG G G G A A A G G GAAA A GCCAAAAAGAAGGAAAAAAAAGACAGGGG G G A A G G A A G A G G G A G G CA $\operatorname{A} A A A A A G C C G G G A G G A A G G G G A A G G$ G GAGGAGAAGCCAAAGGGAGGGGAGGAGAAGGAGGGAAAAGA G GAACAAAAGAAGAACAAAGAGCAAACAGAGGGGGAGGAGCC
 G G G A G G A G A G G G G G G G G G G A G A C A GAG GAAAA $A \operatorname{A} G G G A A G A A$ A G G GAAAAGAAGAAGGGGGGCCACCCGAGGGAGGAAGAAAGA A A G G A A G G G G A A A A G A A A A A G G A G G G A A G A G G C A A C G G G G A A G GAGGGCCAGGGGGAGGGGAAGAAAGAAGACAAGAATAAGAC G G G G G G G A A GCCGGAAGAGGTTGAAGGAAGGAAAGAGAACAG GAACAGAGGGGGGGAAAAACAAGGAGGGAACCGGAAAAGGAA G GAAAAGGGGAACCAAGAGGCCGAAAGAGACCAACAGGGGAA G G G A A C G A A A G G G G G G A A A A C C A A A A A A C CAA GA G G A A A A G A GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGGAAAAC
 GAAACAAACAAAAAAAAGAAAGGAAACAGGAAGGGAAGAGAG G G GAGGAAAAAAAGGGGAACCAAAAAAAAACCGGGAGGGGGG A G A C G A C A G G G GCC A A GAAACAGGAAGGAAGAAAGG GAAAAA G G G G A G A A A G G G A A A A A G G A A G G A A G A A G A G A A G A C G G G G G G G GAAGAGGGGAAGGCCGGGGGGAGGGAAAAAGCGAAAGAAAA A GAAAAGACAGGAAAAAGGGAAAATAAAAGGGAGAGCCACAA $G G A A A A G G G G C A G G A C A G G A A A G A G A G A A G A A G G G G A A A A G G$ G G A A A A G A C A G G G G A A A G G GAA A A C CA G GAA A A GA GAA G G G G A G A A G A G G C G G G A A A A C A G GA GAG GAAAAAAA A G G G TAAC G G G G G G G G G A G G G G G G G A A A G G A A G G G G G G G G C C G G C C C G A A G G
 ATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGA C C G G G GAGCAGAAAGAAGAAACCAGAAGAAAAAGGGACGGCC GATAAGAAAGAAAAGGAAAACGGAAAGGAGAGAAAACCGGGG GAGCACAGCAAGTAAAACGACCAAGGAGAGAAGGGGCAAAGA A GAA $A \operatorname{GAA} G G C C T A A G A G G G A G A G A G A A G G A A G A G G A A G G G G$ GAAGCAGGAGGAGGAGAGCCAAAGGGAAAGAACCBGCAAGEG
 G G G G G G A A A A C C G G CAAA $A \operatorname{AGGGGGGAAAAAAAAAAAAGCCGG}$ AGGGCACCAAAAAAGGCCAAAGCACAACAAAAAGATAATTGA GAGGAAAAAAAAGGGGAAGGAAGGGGGGAAAAAAAAAAGGAA
 A A G A G G G G G G G A A G T T G A A GAGAAAGCAGGCCCCCCGAAAAG A GCAGAAGAAGGAAGAGGAATTACACAAGGGGCCBCAAGGGG A GCCAGACAGAGGAGGGAAAAGAAAAGGCCGGAAGAAGAAAC G G T T A A A G A G G A A G A A A A G G G G A A A A G G A A G G G G A A G G A A A A G G A A G G A A $\mathcal{A} G G A A G G G G G G G G G G A A G G G A A G G A A G G C C B G B A$ CAGGAAGAGCGGGAGAGGACAGGGTTAGCCGGAGGCGGAAGG C C TTAAAAAAGACAAGGGAAAAAAAAAAGAAAAAGAGGGGGA
 $G G A A A A A A G A A G A G A G C C A G G G G A G C A G A A G G G G A A A A G G G G$ $G G A G A A G A G A G G A A A A C C G A G G G G A G G A A A G G G A G G A A A A G A$

G G T T G GAAGGAAAACCAGCCCAAAGGGGGGGGGGGGAAAGAA GAAGGGGGGGAAAAGGAGAGGGGAAAGAGGAGGGGAGAAAAA
 A G GAGGCAGGGGGGAGAACCGAGGAGGAACGAACAAAAAAAA A GAAATAGTTGGAAGGAAGGAAAAGGGACGCGGAGGCATTAA
 AAAACCAAGGGGAAAACCCAGGGGGGGGAAAAGAAGGGAGAC GACCAAGACAAGACCAAAAAACGGGGAAAAGGAACCAGAAGA A A A A G G G G G G A A G G A A $\mathcal{A} G G G G G G A A G A G A G A G G A A A A A A A C A$ CAGGAGAGAACCGAAGAAAGAACCGGAAAAGGAAAAGC G GAA A G G GACGGGGAGAACCAAGAGGAAAGAGCAAGCAAAGGGAGA A A G G G GCCGAGGAAAAGGCCCCCCCAAAGAAAAAGGG
GCCGGGGGGACCAAGGGACAGGAGGCACCGGAACCCCCCGG AAGGAAGAGGAGAAGACCGGGGGGAAAAAAAAAGCAGAAAAG G G GAATAAAAGGGGGGGGGAAGGAAGAGGGAAAAAACAAAAA A A A G G G G G G G G G G G G G A A G G G G GAGAAAAAGGAGAAAA G A A A A A A G G G GAAAAGGGGGAGAATGGAGACGGGAAGCCGACCACAG AACCACAACAAAAACCAAGAAGAAAGGGAAGGCCAAAAAAGG $G G A A A A G A G G A A G G G G G A A G A G A A A G A A A C A A G G A T G G A G A G$
 AAGGAAGGCCAAAAAAAAAAGGGGCCGGAAAAGGAACCCCGG G G G GAAAACCAGCGAGAGTAGAAAAAAAACAAGGGGAGACAG A G GAGAAAAAGGAAAAAAAAGAAGAAGGAAAAGGGGAGAGAA A A A A A A A A C C C CA A G G G GAGGGAAAGAAAGAAGAAAA GAG G G A A G G G GAA A A A A A CAA A A G GGGAAGGAGGGAGAGAAGGAAAA C CAGGGGACCTTGGGACACAAAGGCCAAGGGGAAGGGGAAGG G G G G G GAAAAGGAAAGTTAAGGGGAGAAAAGCCGGAGAAAAG
 A GAGGAAACCAAGGGGGAAGGAAGAGAGGAAAAAGAAACCBG $G G C C T T G G G G G G A G G G A A G G G G A A A A A A A A G G A A G G A A A A A A$
 AA $A G A A A A G G G G G G A A G G C C G G A A A G G G G C G G G G G A A G A G G G$

 A GAAAAGGGGCCAAGGAAAAAACCAACCAAAAAGGAAGCATT A G A A A TAGCCAAGCAGAGGGAAAAGGGAAGGAAAAGAAAAAA A A G G G G G G A G A A A G GAGGGAGGGGGGGGCAGGAACAAAACAA GGCAGGAAAAAAAAGGAGAGGAGGAAAAAGAGGGGGGGAAAA
 CA $A \operatorname{GGG} G \mathrm{G}$ GAAGGGGCCAAAAGGGGGGAAGGCAAAACCCCCGG A A A A A A A A $\mathcal{A} G G G G G G G G G G C G G G G A G G G G A C C G C C C A A G G G A$ GGAACCCAAAGGAAGGCCGAGAGAACCAAAAAAAAAAAGGAG G G G G T A A GAGAAAGAGCCAAGGAAAAAAGGGAGGGGAAAAAA GAGAGAAAGGAAGAGAAAGGAAGGGGGAAGGGAAATAAAAAG AGGGGAAAGAGAAACAAGAAGGAAGAAACCCCGAACAAAAAA A G G A G G G G A A G G A GAGCAGGCCGGCCGAAAAAAAAAA GAGGG $G G A A A A A C G A A G C A A C G G A A A G A A A A A A C C A A A A A C G G G G G G$ GAGAACGAAAACGGGGGGGGGGAGAGGAAGGGGGTAAAAAAA AAAAGGAAAACCAAGGGGGAACGGAAGGAACCGAGAGGGGCC AAAGCAGAGAAGAAACAAAAGGAAAAAGAAAGGAAAAAAAAA A A G G G G G A A GAC $\mathrm{A} A \mathrm{~A} A \mathrm{~A} G A A A A G A A G G G G G G G G G G G G A A A A A A$ G GAAA A A A A GCAGGGGAAGGAAGATAGAAAAAGGGAAGGGCC G G G G G GAACCAACAGAAAAAGGGGATTAAAAGGGAGAAAAGA GGCCGGGGAAGGGGAGAAGGGGAAAGAGCCAAGACACCAGAG ACTAGAGAAAAAAAGGAAGGGAGAAAGGAAGGAAGAGAGACC CAAGGAGACCAGGGAAGGCCACAAGGGAGGGGGAAGAGAAAA
 TAAAAAAAAGGAGGGGAAACGGGAAAGGCCGGAAAAAAGGGG AGAAGGGGAAGGGCACAGGGGAGCGAACCAACCCGGAACAAA

G G G G G A G G A A G A A G A A A G G G G A T TAAAA A G G G G GA G G A G G G G A GACAGAAGGAAAAGGAGAGAAAGACGGAGGGAAAGAAGAAA A A G G G G G G A A G GAAAA A A A A CA GACGAGAGGGGAGAAAAT TAA C C G GAA A ACCAGGAGGGGAAGGAGAAGGCCAAAGGAGAAAAA AAGAAAAAATAGGGAGAAGGCCGGAAAGGAGGAGGAAC G GAAA GAAA A G G G A C G GAAA $A \operatorname{AA} A G G G G A C C A G A A G A A A A G G G G A A G G$ G GAA A G G G A C A GAA A G G A GAGGGGGGAAGGAAAAGAGAAAAA C CAAGGAAAAGGGAGAAGCAAGGAACGAGAGAGAAAAAAAGA G G G GAA A ACACCAACCGGAAGAAGGAGGAGAAGGAAGAGAAG G G G G GACCAGGAGGGAAAGGCCAGGGGACCAGAGAGGGACAA G G G GAGGAAGAGAGAGAAAGAAGAGGGGGGAAA GAAGAACAA $C \subset A G A G G A G G A A G G A G G A A A G A G G G A G G G A G A A A G G G A A A G G$
 G G C C G G G G G G A GAC GAATGAAACCAAAGGAGGGAA G G GAACA G G GAGGGGGGGCCAAAGAAAAGGGGAAGGAAGGAAAAAAAGAA ACAGAGCCGGAAGGGGAAAAAAGGCCGGAAAAAAAAGAAAAA
 G GAA A GCCGGAAAAAAGGGGGGAAGGAACCGAAAAGGGAGAA AACCGGAAGGAGGAAAAAATAGGGAACCAAGGGGGGAGAAAC C GAGAGCCACAACCGACAAAAGGGGACAAAAAAAGGGGAACAC TTCCAAACCCGGGGAACGGAAAAGCCGGGAGAGGAGAGAAAA A A GAAAGGAACCAGGAGGGAGGGAAAGGGAAACCCCGAAAGG $G G C C A A A C A A G G C C G G A A G G G A G A G G G G G A A A A C G B A A A A G A$ C C G G G G G GAGCAAACCAAACAGAGAAAGAAGGGAA GAGCGGG CAACGGCAGAGGAAGGAGAAAAAAGGAAGGAAGAGGGGCCGG CACCAAGGAGGGGGGGGAAGGAAGAGAGGACCAACCAAGAGG G GAA $A \operatorname{G} G A G A G G G A A C G G T T G A A A A A G G A G A G A A G A G G A A G A$ A GAA A G G G G GAGGACCGAGGGAGGGAGAGGAAAAAGAGACAG GACCAAGGGAGGGGGGGGAAGGAAGGAGAAAAGGGGCAGACA AAACAGGACAGGGAGAGGAAAGACCCAGAGGGGGGGGAAAAG A GAA A G G A A C G A G A A G A A A G GAA G C CA GAGGGCAAAACAGAA CAAGGGCCACGGAGGAGAGAAACCAGAGGGAAAGGGAAGGGG
 A A A G C A A G A G G G G A A G A A G G A A G G G G G G G G A A A G G G C C G G A A G G A A A A A G A A A A A A G G A A A A A A A A GGAGAGCCAAAAGGCCAG A ATTGCAGGAACAGGGAAGAAGGAGGAATTAGAAGGGGAGAG
 A GAA A GAGAGGGGGGGAGCGAGAAAAGGACAAAGAAAAAGAA A A A A A GAA A A GAAAAAGGGGAAAAAGGGGGGGGGAAGAAAAG
 G GAGAAAGGGGGGAGGAAAGGAAGGAGGAAGGCAAGGAAGAAA A A A G A A G G G G G G G A C C C C G G A G G A A A G G A A G G C C C C G G G G A A G G GAGAAGGAGGCCAAGAGGAAAGAAAGGAGAGAAAGAAGGG $A C A C G A G G A C A A A A G G G G G G G G G G A A C C G G C A G A G A A G C C A G$ GAGGGAGGGGCACCAGAAAAGAAGAAGAAAGGGACCAAGGCC CCGGCACCAAAAAAGGAAGGAAAAAAGGGAAGGGGAGGAGAA G GAACAAGAAGGCCGGAAAAGGAGGAAGGGGAAAGGGGAAAG $C \subset G G A G A G G G G A G C A C A A A A A G G G A G A A G G A A G A A C G G A C G G$ $C C G G A T A A A A G A C A C C G G A A G A G A A A G G A A A G G G C C A T G G G G$ G G G G G A A G A GAGGGAAAGACAAAGCCAGGAAAAATTAAAAAA G GAAGGAAAGAGGAAAAAGAAAAGGAGAAAAAGGAACCCCCC AA GACCGAAAAAGGAAGAGGAAAAAAAAGGGACCAGGGAAAA G G G G G A C A A A G A A A A A A A A GAGACCCCAGGCGGGGGAAAAGA G G G G A A A GAGGAACAGAAAACAAGGAGGCCAAAGAAGGAAAA $A C G A G A G G G G G G A A G G G G A A A A G G A A A A A A G G A A G G A A A A G A$ AAGGAAAAAGGAACAAAAAGAAAGCAAAGAGAAGGAGAACAG G G A A A GACAAAGGAGAAGCAGAAAGGGGGGGGCCAGACAGAA A G GAGAGACAAGAAAAAAGAAAGGAAGAGGAAACCCGGGGGG $G A T T G A G G G G C C A G A G A A A A C C G G G G A A A A G G G G G G G G G G G G$

GGCCGGGGAAAAAAAAGAGGAACGGGAAAAGAAGGAGGGGAA G G G G A G A A G G G G G G G G A C G GAAA A A C GACAAAAAATAACACC AAAACACCAAGGAAGGGAAAGGAAGGAAGGAAGGGAAAGGGG AAAAGGAAAAGGGGCCAAAAGGAAGGGGGGGGGGGGGGCCGG G G G GCCCCGGAAGGGGAAAACCGGAAAAAAAAGGGGAAAACC G G G G G G G G G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAGGGGGGAAAAAACAAAAA G G G G A A A A A A A A A A G G A A G G G G G G G G G G G G G G A A G G A A G G A A $G G A A A A G G A A A A G G A A G G G G A A G G G G A A A A G G A A A A G G A A A A$ G G G G A A G G A A C C G G G G G G G G A A A A A A C C A A A A G G G G G G T T G G G GAACCAAAAAACCGGGGCCCCGGAAAAGGAAGGAAAAGAAA G GAAGGGGCCAAGGGGAAAATTGGAAGGAAGGGGAAAAGAAA A A A A G G G G A A A A G G G GCCCCGGCCAAGGAAAAAAGGC
CAAAAGGAAAAAACCGGGGGGGGGGAAAAAAGGAAAAAAAA G GAAAACCGGAAAAAAGGAAGGAAGGAAGGAAAAAAAAGGGG G GAA A G G GAAGGAAAATTAAAAAAGGAAGGAAGGAAAAAAAA A A A A A A G G G G G GAATTCCCCAAGGAAGGCCAAGGAAGGAGAA G G G G G GAACCGGCCAAGGAACAAAAAAAGGAAGGGAAAAA G G A A C C A A A A A A G G G G G G G A G G A G G A A GAGGGGGAA GA G G G G G G AAAAGGGAGCAAAAAACAGGGAGGGGAAAGGAAGGAAGAAAA G G G G G G G G G G G G G G A C A A A A G G C C A A A A A GAGA A A G A GAA G A AAACAAGGGGAAGGCCAAAAGAAGCCGGAAAAAAAGGGGACC A G TAAAAGAAAAAAAACAGGAGAAGGGAAAACAGGAAA GACAA A ACCAAAAATAAAGAAGGAAGGAACCAAGGAAGGAAGGAGAA A G GACAGGGACCAAGGGGCCGATAGAAAGGGGCCAAAAGGAA A A G A A A A A G G A A G G A A A A A A G G G G G GCCGGGGGAAGGACAAC AAAGAAGGAGAAGAGGAAAAAAGGAAAAGGAAAAGGAAAAGG AAACAGGAGAGAGAACCCAGAAGGAAAGAAGAAAGGGBAAAA
 AAAAAAGGAACCGGGAAGAAAAGGGGAGAACAGGAGAAAABA G G G GAGAGCAGGGGAGTAAACAGGCCGGAACGAGATAGAGAA
 G G G G G GAGAGCAACGGAAAAGGGAGGGGAAAAAAGGAAGAGG G GAAAA A A GACCAAAAAAGGAAAAGGGGGGAGAGAGAAAGGG GCGGCGGGGGAAGGGGCAAAAAAAGGGGGGGGGAACAGAGAA G GCAGACCAAAAAAGGAACCAACCGGAAAGGGTXAAAAGAAA A A A G A A G G A A A A G A C A G A A A GAGGGGAAAGGACAG GAAAAAA
 C CAGGGAAGGGGGGAAGGACCCAGGGGGAAGCAAAAGAAAAA
 G G G G A A A A A A G G G G G G A A G G A G G G A G G A C A C A G A G G G G G G A G G GAGACAGAGAGGGAGAGAAGGCACCGGAAAAGAGAAGGGCC A A G G A G G A A A A A G G A C C C A GAGAAGGAAAAGGGGGA GA G G A A AAGGGACAAGGAGAGGAAGGAACCAGAACGAAGAGGGGAAAA A A G G G GAAA $A \operatorname{AA} A \operatorname{A} G A A A A G G G G G G A G C C G G A A A A G G A G G G G G$ AA $A G G G G G A A G G C C A A A A A A C C C C A A A A A A G G A G A G A A G G A A$ A G GA $\operatorname{G} G C C G A A G G G A A G G A A C C C C G G G G G G A A G G G G A A C C B G$ G G CA $\operatorname{G} A \mathrm{~A}$ G A A A A A G A G A A A A A A G G A G A A A GAACC G G G G G G C C ACGAACGGCCAAGGAAAAGGAAGGAAGAAAAAAGGGGAAGAG GGCCAAGAGGAAAAGGAACCCCAGGGAACCGGAAGGGGGGAA C CAAAAAAGGAAAAAAGGGGAAAAAAAAAAAAGGTTAAGGGG
 G G G G G GAA A G G G G G G GAA $A \operatorname{A} G A A G G C C A A G G G G G G A A G G A A A A$ A A G G G G A A A A G G G G A A A A A A G G A A A A G G A A G G A A G G G GAAA A GAAAGGAAAAAGGGGGGAAGAGAAAAGCAGGAGAA GAGGGGG AAAACCGGGGGGAAGGAAAGAGACAAGAAGGGGA GAAAAGAG GACCAGCAGGAAACCGGGAAGGAAGGAGAGCCAACCAAGGAG AAAGAGAAAAGGGGGGCCAAAGAGGGGGCCAAGGAAACAAAC AAGAAACACCGAGAAGGGGGCCCCGGAAAGAAGGAAGAAGAA A GAAAAAGAGAAGGAAGAGGGGGAAAAAGGAAGGAAGAAAGG

C CAAAGGGAAAAGGGGAAGGAAGGAGGGGGAAAAAAAAAAAG G GAA A G G G A A A A A G G G A A A GACAGGGCAGAAAAAGAAAAAAA $G G A A A A C C G G A A G G A A A A A A A A A A G G G G G G A G G G G G A A A A A A$ A GAGGGCAATAGCCCCGGACGAGAGGGGGAGAGGGGAGGGAG GAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACAAGAGAGAAA A A G GCCGGGGAAGGAAAAAAGGGGGGCCCAAAAGGGBAACAA
 AAGGAACCAAGGGGGGGGGAGAGGGGACACGAAAAAAGATAG A GAACCAAGGAGAAAGAAAAGGGAGGAAAGCACCAGGAAAAG G G GCAGGGGGAAAAAAGGAAACGAGGAGAGAAGGTTAGTTGA G G G G G G G A G G A A G G G G G G G G G G A A G G G G T A G A G A G G A A A G $\mathcal{A} A$
 GAGAAAGGAAGGGGGAAAAGGGAAAAAAGCGGGGATAACAAA C CAG GAGGGGAAAAAAAACCAGAGAAACAAGGGGGGGAAAAG AGACAAACACGAGGAGAGGGCCCCCCGAAGGGAACCAAGC GA G G G G GACC G GAGGAGAAGGGCCCCGGAAAAAAGGAAGGCCCC GAAAAAAGGACCAGAGAAGAAAAGGGGGGAGAACAGABAACA A GAGAAGGAAGGACGGCCAAGGCCGAAAGGGGAAAGAAAAGG $G G A C A A G G G G G G A A A A G G A A A A G G A G G A G G G A G A A A A A G G G G$ AAAGGGGAAGAGCCCCAACCGAAAAAAAAGAGGAAAGGAGGG A G G G G G G GCCCAAGAGGGAGAGGAGGAGAAGAGAAAGAGAGA A A G GAAGGCCAAGGGGAAGGGAGAAGCCACAAGGCCGGAAAAA G GACAGGAAAGAGGAAAGAAAAGGCAGAAAGGGGAAGGCAAA AAGGGGCCAAACCCAAAAAAAAAAAAAAGGGAGAACGAAGAC G G G GCCGGATAGGGAGGGAGGAGGAAAGAAGGAAAACCAAGA AAAACCCCCCGGGGAGGGGGGGCCGAGACCAAGGGAAAGGGG G GAAAAGGGGTTGGGGAGGAAAAAAAAACCAAGAACAGAAAA GAAGGGGGAGAGAAGGAAAACCGAAGCAAACCGAGAGAGGGG C C C CACGGAAGAAAAAAAAAAAAAGAAACCAGAAGAGGAGAA G G G G G A A A C C A G G G G G G G G G G G A A T T A A G G G G G G G G G G C C A A G G G G A G A A A A G G G G A G G A A G A G G G G G A C G G C A G G G G G G G G G G AA $A G G G A A G G G G G G A A A A G G G A G G C C C C A G G A G G G G G A G G G G$ G GCAGGCCAAAAAAGGCAGGGAAAGGAACCAAAAAAAAAAGG A A G G G A G A CAG G G G GAAGCCAAAAGGGAGATAAC G GAAAAA G G CATTAGGAAGCCGGGGAAAAGACAGGGAGGGGAAAAAAAAAA A A A A A A A C G A GACCAGAGGAAAACGAAAGGGAGGAAAAGGAA A G G G A A A A A G A G G A G A G G G G A G G G GA G A A A A G T T A A G G G G A A G GCGGGAGGAGAGGAAAGCAGCGAGAAGGAACGAGGAAAGCC ACAACCAGAGAAGAAAGGCAGGAAGGATCCGACCCCGAAACC A A C C C C G G G G G G G A C C G G A A A A G G A A G G G A A G G A A A GA G G A G $G G A C A A A A A A G G G G G G G G A G A G G A G G A A C C A A A A G G A A A G G A$
 C C G G A A A G G G G G G G A A G GAA $A \operatorname{GAAAAGAAAAGGCCGGGGAGAA}$ A A A A G GAA A G G A GAGGCCGGAGAGGGAGGGGGAAACAA G GAA GCGGCCAAAAAGGGGGAACAGACACAAAGGGGGAGAAAAAGA GAAAGGAAGGCCGGAAAGAAAAGGCCAAGAGGCCAAAGGGAG
 A GAAA A A G GAAAAAAAGGAAAAGGAGGGGGGGAGAGAAGAAA GAAAAAGGGGAGGAGGAAGGAAAAAAAAGGAGGGGAGABAAG G GAGCCAAAAACGACAGGAAAAGGAAAAAAGGGGGGAAGGAA G GAAACAAGGAGACAAAACCAAACAAAAGGAAGGGAGAGGAG GAAGGGCAGGGAAGACGAAAAAGGAGAAGGCCAATTGGAACC G G G G G G A A C C A G A A G G A G G A G G C A G G C C A C C C C C G G G G C C C C $C \subset G G A C A A A A A G C C G G A A A G G G G G G A A A A A G G G G A A G G A G G A$ A G GAGGAGAAGAAGAGGAAACCAAAAGGGGGGGAAAGGAGAA
 GGCCGGAAGGCCCACCAAGGGGAAAAGAAGAGAAGAAAGGGG A A G G A A A A A A G GAACCGGAGAGGGAGAGCAAAGGGGAAAAAA $A G C A C C A G G A G A A G G A T A G G A G A A C C G G A A G G G G G G G A A A G G$

A A A A A A GAAGGAAAAAGAAGGAAAAAAAGGTTCGGGAACAAA GAAGACAAAAAAACGAAAAGAAGAGGGAGGACAGAACCBGAC A A A A A A A A G GAAC G GAGAAGCAACAGAACCGGAAGGGAC GAT G G G GAAAGCAGGAACCAGAGGGGGAACCAAGGGAGGGAGGGA G GAGGGGGAGCCTAAAATGAAAAAAACCAGGAAGGACCGGGA C C A A A A A GTTAAAAAGAAAGAAGAAAAGAAAACCAAGGGGGG G G G G G G A A A A G A GAAAAAAGAGCAGGAGGAGGGGGGAAAAAA GGGGCCAAAAAGGAAAAGGGGGAAAGTTAGCGAGAAGGGGGA G G GACCACGGCCGGAAGGAAGGAAGAAGGGAGCCGGGGAAAA G G GAGGACAAGGCCAAGGAAGGAAAGAAACAGGGGACACAAA A A G GAA A GAAAAAAGGGGAAGGAGGGGGAAAAGGAGGAAAAA G G A A G G G G G G G G G G A A C C G G A G G G G GAAA A $A X A G G G A G$
GAAGGACAGAAGGGAGGGGAGGGGGGGAGAAAAGGGGAAGG CAAACCGGAGGGAGACGGAAAAAAGGAGCCGGAAAAAAGGAG A A A ACAGATTAAGAGAGGAAAAAAAGGAGGCCAAAAAAG GAA $G G C C G A A A A A G G A G C C A A A A G G G A C C A A A G A G A A G G A G A G G G$ AAAGAAGGAGAAGGAAAAAAAAGGAAAGGGGGAGGGAAAAAA A GAGAGGGACAAGAAGAGGGAGGAGGGGAAGGAGGGGGACCA $G G C C C A G G A G G G C C G G A A G A C C A A A A A A A A A A G G A A G G A A G G$ G G G G G GCCAAAACCGGAAAACCAAAAAACACCAGGGAGAAAA G GCAGATTGGGGGGAAAGCCGGAAGGGACCAAGGAGAAGGGG $C \subset A A C C A A G G A G G A G A A A A G G G G G G G C G G G G A A G G G A C B G A A$ AGGGAAGGCACCAACCGGCAAAGAAAAGGAAAAAAAAGAGAA A A A G A A A ACCGGAACCAAGGCAGGGGACAAAAGGAAAAAAAG AA $A$ A $\operatorname{GAA} A \operatorname{A} G A A A A G G G G A A G A G G G A G A A G A A G A A G G A A G A A G$ $A G T A G G G G A A G G G A G G G G A A A A A A G G G A C G C C A A G G G G A A G G$


 $G G A A G G G G A A A A G G T T A A G G C C G G G A A A A A G A A G G A G G A A G A$
 A G G GAGAGGGGGAGGGAAAGGGAAAAAAACCCAAGGAAAAGA
 A A G GCCGGAAGGAAGAGAAAAAAGGAACGAGGGACCCAAGCC C C A G G A A G A G G G A A G G G G G G A G G G A G G G G G G G A G A G G A A G G G A A GAACGGAGGAGGAAGGAAGGGGAAGGGACCGGGAAAAAAA A G G G A A G A G G G A G A A A A A G G G G G G G G G G A A A A A A A A A A A A G G G G G GAA $A \subset G G G C C A G A G G G A A G G A G G A A G A A A G G A G G G G G G G$ A A G G G G G G G G G G G A G A A A A GAGGGCCAAGGAAAAGAAACAAA G GAA A GAACCGGAAGGTTAACCAGAAAGAGAGGAAAGGCAAA $G G C C A G A A G A A G A G A C C A G G A A G G G G A A A A A A G G A A A A G G A G$
 A G TAGAGAGGGGGGAAGGCGACAAGAAAAAGAAGACAAACTT GCAGGACCCCACGGGGGGAAGGAAGGGGAAAAGGGGGGCCCC A A G G A A G G A A G GAA $A \operatorname{Gg} \operatorname{G} G A A A A G G A A G G A A A A A A A A A A T A G G$ C C C C A G A A A G A GGGAGGAGGAAAAAAGGAAAAAAG GAA G GAAA G G G GAACCGGAAGGAAAAGGCCCCGGAAAGCCAAGGCCAGGA A ACCGGGAGAAAGGAGAGGGGGGAGGAAAGAGGAAAAAGAAA AAAAGGGAACCCAGCCGGTTAAGGAAAAGACCGGGAAACC GA A A G GCCGAAGCCGGAGAAAAGGAGAGAAGGGGAGAGAGAGAG GAAAGGAGACGACCGGACAAGGGGGGAAAGAGAAAGTXGGAC GAAGAAGGACTTCCGGCCAAGGGGGGGGAAGGGGGGGGAGAG G GCAGAGGCCAAGGAAAAACAGAGGGGGAAAAAAGGAGAAGG AAGGGAAAAAAGACAAGAGGAGAGGAAAAACCGAAACAGGCC GAGGAAGACCAAAAAGAGAAAACCCCAAGGGGGGAAGAAGAA G GAGACGGAAGGAGAAAAGGAAAGGGGGAAACGGAGAAGAAA
 C C A GAGGGACGGAAGGGAACGACAGGAAAAACACAAAGGAAA A A A A A A A A GAGGAAAAAAGGAACCGGAGAGAAGAGGGGAACA

G G G GAGGGAACCCCAAGGAACCAAAAAAAAAAGGAAGGGGGG A A G G G GAAAA $A \operatorname{ACC}$ CAAAGGGTAACGGCCAAGACAGGGGAAAG A A G G G A A G A A G G G G G G G G G A A A C A C A T T G C G G GAAC $\mathcal{A} G G G G A$ A GACAAAAGAGGGAGGGGGGAGGGACGGGGAAGGAACAGAAA A GACAAAAAAGGAGAAAAAAGAAAGGGGGGAGGATTGGAGAA C CAATTGGAAACGAAAGGGGAAGAGGAAGAGGAAGGGGAGAG GAAGAAAGGAAACCGGGGAAAAGGAAAAGGAAAGAAACAGAC AAGAAAGGAAAGGGAAGAGGGAGAGGAGCCGAGGGGACAAAA GACAAGGGGGGGGGCCAAAAAAAACCAAAAGGAAAAGAGAAG GAGGAAGGAAAGAGAGGGAAGAAACCAAGGCAGGGAAAACCC GAAAGAAAGAGGGGAAAACCAGGAAAAAGGAAAGAACCCC GA GAGAGAAGAAGGGGAAGAAACCAAAACCAAGAAACCAAGGGG G G G GCCGGGGGGAAAAAAGGCCGGCGGGAGAACCCCAAGGAA C CAAAAGGAACCGGGGAAAAAAAAAGAGGGAGGGAAAA GAAA G GCCGGGAAAAAAAAAAAAAAAGGGGGGACAGGGACCCCAAA

 AACCGGGGGAGGAGCAAAAGGGAAAAGAAAGAGGGAAAAGAG $G G A A A A A A G G A A C C G A G G A A G G G G A G C C A A G G C C A G A A A A G G$ A A A A C A A A G A A A A A GAAAG GAAAAACAAAGAAAAAG G GAAAA A A A A A A A A G GAAAAGAAAAAAACCACCCGGAAAACCGGAAGG G G G G G GAA A A A A GAAAAGGGAAGAGGAAGGGGAGAGGAAAGA G GAGGAGGGGCCAACCGGAAAACCAGGAGGAAAGAAAAAGGG A A A G A GCCTTGGGAAGCAAGAAGAGACAAACCGGGGGGAAGG AAAAAGGGAAAGAAAAAAGGAAAAAGCCAAAGAAAAAGAACC A A G GAGAAGAGGAAGGAAAACCAGACAGAGAGAAAAAAGAAC ACGGGGGGAGGAAGGGAAAAGAGACGCCACGGGGCCGAAAAA AAGCAACCGGGAGAGAAGGGAAGGAAGAGAAACCAAAAAAGG A G G A A G G A A A C G G G A G G G A A A A G GAGGGGGCCAAAAAAAA G A A AAAGGAGAGGCAGAGGAAGGGACAAAAAGGGGGGCCGGAGAG GAGGGATAGAAGAGGGAACCAGGGAAGGGGCAAAAAGAAAGG $G G C C A A G A A G C C G G G G G A G A A G A G A A G A G G A A A A C C A A G G G G$ GAACAGAGAGGAAAGGAGGAGAAAAAAAAAAAGGAACAAGAA A A A G G A A G A C G A GACC G GAATAGGCCAGAAAGACAAGGAAAA GC G G A C G G G A G G G A A G G G G G G G A A G A G G G G A G C C A A G G G G C C AAAACCAAAAAACCAAGGGGGAAGCAAGGAAGCCCCGAGAAG A GAA A GAA A G G GAAGGAACCGGAAGGTTAAGGCCGGAAGGCC A A A A A A G G A A A A G GAAGGAGGAGAGACAAGGGAA G GAAACAG AACCGGGGACGGTTTTAGTTCCGGAAAGAAACCCAAAGCACA G GCCAA GAAGAAAAAACCAAAAAAGGGGCCAAAA GAAAGGGG $G G A A A A A G A A A A G G G G G G G A A G G G G G A A C C G G G G A G A A G A A G$ A A A A A GCCACAAGGGAGGAAGGGACCAAGAAAAACCGGGGGA AAGGGAAGAGAAAGGAGACAAAGAGGAGAAAAAAGGAAAGGG AAGGAAGAGGAGAACACCACGGAAGAACGACCACGGAAGGAG A G G GCCGGGGGGAAAAAACCCCGGGGAACCGGAAGGCCAGAA A A G G A A G G A G G G G G A G CA $A \operatorname{GGGAA} G A A G A G G A A A A C C G G G G A G$ ACGGCCGGCAAAAAAAAAGGCAGGGGGGCCAGGAAGACAAGG G GAA A A A A G G GAGAGAAACAAGAGAAGAAAAAGAGGAAGGGG G G G G T TAGAGCAGGAGAAAAGGGGGGCCAGCCAAAAGAAAAA C A A A A A A A T T G G A A A A A A G G G G G G A A A A G G G G A A G G G G C C G G A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A A C C G G A A G G A A A A G G G G G G A A A A G G G G$ G G G G G G G G G G A A G G G G G A A G G A A A G G GA A A A G G G G G G A GAA A A A A A C C A A C C A A A GAA $A \operatorname{GAAAGGGGAAGGAAGGGGAAGGGGGG}$ T T GAAGCAGGAAGGAAAGAGAGAAGACAGGAGAACCGGAGAG A AAAGACCCCAGACGGAGGAGGGGGGAGGGAACCAGAAAAAG GAAAAAGGGGGGAAGGGGGGGGAAGGGGGGGGAACCGGAAGG G GCCCCGGGGAAAAACGGCCGAAAGGCCGGGAGGGAGGAGCB G A A A A G G A G A G G G G G G G G G A A C G GAGGAAAGGAAA A A A A $\mathcal{A} G G G$ $G G G G A A A A A A A G A A G A G A G A G A G A G G A G G G G A G A A A A A A G G G$

A GAGACGGGAAGGGAAGAGGAAGGGGGGCCGGGAGGACAAGG $G G A A A A A A A A C C G G A A G G G G G G G G C C G A A A C C G G A A A A A A G A$ G G G GA A A A $\mathcal{A} G G A A A G G G G G G A A A A G G A A G G G G G A A A G A G G C C$ T TAGGAAAAGAAAAAGGAAGGGAAGGGGGGAGGGGACAAAGA $G G C C A A A A C C A A C C A A G G C C G G G G G G A A A A G G G G A A A A A A G G$ $C \subset A A G G A A A A G G G G C C C C A A A A G G G G A A G G A A G G A A G G A A G G$ G GAAAAGGAACCAGAAGGGAAACACCGGAGGGCAAGAGAGAA GGAGCCAAAAAAGACAAAAGAAAGGAGGAAAAGGAAGGAGAA GAAAGAAAAAAAAGAAGGAAAGGAGGCCAGAGAAGACCAAAG G G GAACAAGGGGGGACGGGAACGAAGGAAGAAGGGAGGGAAA GAGAAAGAGGGGAAGAGGCGGGGGAGGAAAGGAGAAAAAACA A G GAAAAACAAGAGGAGGCAAAAGAACCCCACAAGGG
GACAGGGCACAGGAAAAAAAAAAGGCCGGAGGAGGGACACG A A A GCAAGACAGAGAGAGAAAAGGGAAAAACCAGAGCAGGGA A GAAAGACAGAAAAGGGGGGCGAAAACCGAAAGGAAGACAGAA A G GAGACCAGGGAAAGACAAAAAAGGAAACGGAAAAGGGCTT GCGAAAAAAAGGGGGGCCAAGAAGAAAACGGGAAGGCCCCCC G G A A G G G G GACCGGGGAAGGGGGGCCGGAAAAGACCGAAGAG $G G A A A A A A A A A G G G G G A C T T A A G A A G A A A A G G A G G A A A A G G G$ G G G G A A A A A A G GAACCCCGCGGGAAGCCGGGGGAAGAGAGAG AAAAGGGGGGAGAAAAGGAACCAAAAAAGACAAGGGAAGAGG A A A A A A A A ATAGCCAGCCAAAAAGGAAAAAGGGGGGAAAAAA G GAGAGACAGGGGGGGAAGGCAGGAAAAAAGGAAAGAAACAA A A GAGGAGGGAAGGCAAAAGGAGAAAGAAGAGGGAACAGGGG $G G A A A C C C A A C C A A A A A A G A A G C C G A G G A G A G C C G G A A G G G G$ G G GAGAAGGACCAGGGGGAAAAGGGGAAGGAGAACCAAGGGA A GCAAAAATTCCGGGGGGAAAAAAGGAAGGAAGGAACCAGAG G GCAAGGGGGAAAGCAGCCCGAAAAAGAGGGGAAGCAAAAGG GACCAAAAAAGGAAGGAAGGGGGGAAAAAAAACCAAAAAAGG AA $A G A A A A A A G G G G A A G G A C G A G G A G G G A A C A G G A A A A A A C C$ GAGGGGGGAGCCAAAAGGGGAAAAAACCGGAGGAAAGBACCC AAGACAGAAGGAGGCCAAGGACGGAAAAAAAAAAGGGCGGAC G GAACCCCAACAAGAGGGAAAAGGGGAAGGTAAGAAGGAAGG G G G GAGAAAAAAGGAAAAACCCGGAGGGGGGGGGAAGAAAAC
 CAA $A$ A A $\mathcal{A} G A A G G G G G G C A G G G G G G C C A G A A G G G A G G G G G G G G$ GGCCAAGGAAAACACAGAAAAAGAGGAAAGAGAGGGGGACAA AACCGGAAAAAAAAAGAAAAGGAAAGGAGAACACGAAG GAAA GAGGAGGAGGAAAAGAGGGGGGGGGAACACACGAGGACAGAA G GAA $\operatorname{G}$ GAAAACCCAAGAAAGAAAGAAGAGACAGGAGGGGGGG AAGGAACCAAAAGGAAAAAAACGGAAAAAAGGCCGGCCCCBA A G A A GCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGGATACC AACCGGCCAGAGAGGGAAAAGGCCAAAGAAAGCCGACGGACC


 G GAAGGCCGGAAGGAAGGGGAAAAAAAAGGCAGAGAAAAAAG ACGGCCAGAAAAAGGGAGGGGGAGGAGGGAAGAGAGGGAACC G G G GAAAA $A \operatorname{A} G \mathrm{G} A C A A G G A A C C C C G A G G A A G G G A G G A G G G C A$ $C \subset G G C A G G A G G G G A A G G G A G C A G G A G A A C A G G C C G G G G A G G G$ C CAGAGGAAAGGGGGGCCAGGAAAGGGGCCAAGGGGAAGAAA A A A A A A G A A G G G G GAAA A $A \operatorname{AGGAA} G A G G G G G G G A A G A G A C A A A$ A A GAA $A \operatorname{CCCCCCCGGGGACGAGGGGGAAGAGGAA} G G G G G G G G G$ GAACGACAAAAAGGAAGGAGAAGGAAGGGGGGGGAAGGGAGG A GAA $A \operatorname{GCCA} A A A G A A A A A A G G G C A C A C A A G G G A G A G C A A A G G$

 GAGGGGAAGACCGGAAAAAAGGGAGGAAAAGGGGAAAAGGGA AAAGGAGGAAGCAGGGGAAGGAGGGGAAGGAAAGAAGGAGCC
$C \subset C G A G G G A G A G A C G G C C A G A A A G A A G A A T G G A A G G G G G G A A$ GAGGAAGACCGGAGACGAGAAGAAAAGCAACAAGGGGACAAA AAGAAGACGGAGGGCCGGAAAAGGGAAAGGGAAGAGAAAAGA
 GAGGAGGAGAAAGACAGGAGCCGGAGGGATGAGGAAGAAAAA A A G GCCAACCGAGGAAAACCGGGGAAAAGGAAAAGGGGAAGG C C G A A A C CAAA $A \operatorname{AGGGGGAAAAAAAAGGAAAGAGAAGGCACCC}$ GAACAAAGCAAAAAGAGGGGGGAGCCACCCAAAGAAGGAAGAG A A GCGGAAGGAAGAAAGGAACCGAGGGAAGAAAAGAACGGGG A G GAGGAGGGGGGGCCAGAAAGGACCAAGGACGGGGGGCCGG
 C C A A A A A C G G A G G A A A C A A C G G G GA GAACC GACCA GAA G G G G
 G G A A G G G A A A G G G A G G A A G GAC TAA A A G C C G A A G G GAGAA G G G G G GAAAGAAAAGAAAAAACAGACAGAAAAAA GAGAGGGGGG A A G G GATAAGAAAAGGGGAAAGGGAAAAGGGAGGGGCCAAAA G GAGGGGGAGAAACCCAAGGCAGGAAGGAAAACCAAGAAAAA A A A A A A A A A A G A A A A A G GAAAAGGAAAAAGGGGAA G G GAA GAA $A G A G A A G G G G A G G A G G A A G G G G A A G G G G G G A G C A G A G G A G A A$ A G A G A A $\mathcal{A} G G G C C G G A A G G G A G A G G G G G G G G G G A G A A A A G G G G$ GAGGAAAAAAGGGGGGGGGGCCACCCAAGGGAGGGGAACAAA AA $A \operatorname{GA} A \mathrm{G} A \mathrm{~A} A A A A G A A G G G A A A A G A A A A A G A A G G A A G A G G A A$
 A A A A A A A A A G G A C A A G G G G G G G A A GAA A A A A G G A G GA G G A A C A GAACACAAGAGGGAGAAGAAAGGGGGGAGAGAGBACAAAAC GAGGGAAGGGCAAGAGGAAGAGAAAAGGGGGACCGGGACCGG A GAAAAGGAAGGGGAAGGGGAAAAAACCAAAAAAAAGGGGGG A A G GCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAA G GAAA
 AAAAGGGAGGGGCCAGGAGGAGAAAAGAAAGGGGGGAACCAA GAGAACAGGACCGGCCGGCCAGGAAGCAGAGGGAAAGGAGGA ACAAAGAGAAGACAACGGAGCCGGGAAAAAAGACGGAAAGGG A A G G G G G A C C G G G G G G G G G G A A C C A GAGGGGACCCCC GAGA G GAACGGGGAAAGAAGGGAGGACGAGACAGGAAAAAAGAAAGAG G G G G G G G G G G A G A G G A G G G G A G G G G A G G C C A A G G G A A G A A C C GAAGGAGGAAAGAGGAGGAAAAGAGGGGGAAAGAAACAAA GA
 AACAGGAAAAGGCAAAAGGGAAAAAAAAGAAAAAAAAAGGGG G G G G A A G G G G A G G A A G A A A G A A A C G G G G G G A G A A A GA G G A G G
 A G GAGGCCAGAAAAGGCCGGAGAAAGGGGAAAAAACGGAGAA A A A A A A A A A A G G A A G G A A G G A A A A $\mathcal{A} G G G G G G G A A G G G G G G G G$ A A A A A A A A G GAAAACCAAGGGGGGAAGGAACCAAAAGGGGGG A A A A G GCAGGGGCCGGGGAAAAAGAAAAGGGGAAGGACAAAG GACCGGGGGGGGCCGGAAGAAAAGAAAACCGGAACCCCAGAA $A C C A A G G A A G G G A A A G A T A G A A G G G G A A G A A A G G A A A A G G A A$ G G A G A A G G C A G G G G GAGAA G C C G G A A A G GAA A A A A G G G G G G A A
 AACCACCCAACCGGGGGAAAAGGGCCCATTGGGGGGGAAAGA CAGAGAAGGGAGGACCGGGGAGAGAAGGGGGGGGGGAGGGCC AAAAGGCCAAGGAAAAGGAAAAAAGGAAACGAGGAAGAGGAA AA G G A A A A A A A A G GAAAAAAAACCCCCCCCAACCAAAAAGGG $G G A A A A G G C A G G G G G A G G G G A C G G G A G A G G T A A C A G A A G G A C$ AAGGGGAACCCCGGAAAACCGGAAAAGGTTGGGGAAGAAAAA G G G GCCCCAAGGAAGGAAAAAAAAGGCCAAGGAGAAAGAGGG GGAGCCCCGGACAGACAGAAAAAAAGGAGGAAGAABACGGGG A A A G G A A G A A G A G G A A A A A A G G G G G G CCGGAAAAAAAAAC A A A A A A A A C C G G A G A G A G G G A G A A A G C C G G A A G G A A G G G G G G A A $A A G G C A A G G G A G A A A A G G A G G G A A A A A A G G G A C C A A G G G G A G$

GAAAGGAAGGAAGGGAAAGAAAGGAAAGCCCCGAAGCACAGG

 G GAA A G G G A A G GCCGGGGGAGGAGGGAGACCCGAGAGAAAGA
 G G G G G A C C C C A G A G G G A A G A A A G G A A G G G A G G G A G G A G G A A G A A G GCAG GAGGGGACAGGAGCCAAAAGGCCACAACCAAACAA A G GAA A A A A A GAGAAAAGGGGGAAAAAAAAGGAAAAGGAAAA AAACCCGGCCGAGACAAAAAAAGGCCGGAAAAAAAAAAAAAA G GAAAACAAAGGAGGGAGAAAAAGAAGAACGAAGAGGAACAG G GAAAGAAGGGGCAAAAGAGAAACGAAAATCAAGAGAGAAAA $G G A G C C A G G G A A A G G A G G C C G G G G A A G G A G A A G G A A C$
A GAAAGGGAGGCCCAGGGACCAAAGGGAAGGAAGGGGAAAG AGCCAACCAAACGGGGCCCCACAGAAAGGAGGGGAACCAAAG GAGAGGGGGAGAGAAGGGCCGGTTAGAGAAAGAAGGGGCCGG G GAGATAGGAGAGAGGAGCAAAAACCGGCAGGGGGGAAAGAA
 A GAGCCGGAGGAAAAAAGTTGGAGGGCCGGCCGGCAAGGGGG AAAACCAAAAAAAAAAAAAGGGAGAAGGAGGGGAAGAGAAGA A A A G G G G A C A A GA G G G A A A A G G G GA GAACAGAA AACGGAGAA G G GAAAAAGGGGGGGGAAAGGGAGACGGAGGAGGAAAAGAAA GAGAAACCAGGAAAAGGGAAAAGGCAGAGAGAACAAAGAAGG $G G A A C C G G A G A A G G G G A G A A G A A G G A A A G G A A A A G A A G A G G G$ G G G A A T A A A G A A A A A A T T A G G G A G G G G G G G A A A A A A A G A A G G
 AA G GAAGGAAAGGAAAAAAAGGCCAGAAGGAAAAAAGAAAAA AACGCAGGAAAAAAAAAGAAAGGAGGGGAAGAAAGAGGATGG AAAGCCAAAGAGAGGGCCAAGAGAAAAAGGAAGGGGAAAAAA A A C C G G G G G G G G G G G G G G A A A A A A G G G G G G G G A A A A G G A A A A C C G G A A A A A A C C G G G G G G G G G G G G G G A A A A A A G G G G G G A A T T G G A A A A A A G G C C A A A A A A G G A A A A G G G G C C A A G G G G A A G G G G $C C G G A A G G G G G G A A G G C C A G A A G G G G A A G G G G C C G A G G C C G G$ $C \subset C C G G G G G G A A A A A G A A G A C C G A G G A A G G A A G G A A G G C C A G$ A A A A CAG G A G A GCAAACCCACCTTCCGGAAAAAAAACCAAAG AACCAAGAAGGAACAAACGGGGAAAGACCCAAAAGGAAAAAC G G G G A A G G G G G GACAGACACAAGACCGGAAAGACAA GA GAGG AAGGGGGGAAAAAAAACCGAAGAAAAAGAGAAAAAAGAACAA G G GAGAAGGGCCAAAAGGCCCAAAGGGAGGGGGGAACAAACAC
 A A A A A A A A GAA $A$ A A $A \operatorname{G} \operatorname{A} A \mathrm{~A} G A A A C C G A A G G A G G A A A A C A G G T A$ AAGGAACCGGGAAGAAAGGGGGCAAAGGAAAAAAAAAAAACA A A G A A A A ATTCAA GAAAAGAAAAAAGGAGGAAGGAAAAGGGG AAAAAAGGGAAAAGGGAAAACAAACCAGGCAACCAAAAGGAG A A G G A A A G A A T T GAAGAAAAAAGGGGACCAAGGGGGGGAAAC GAGAGAGAGACCAAAACAAGGGAAAAAGGACACGAAGGAGGA AAAAGGCCAAGGAAACAAAAACCCAAAGGAAAGGGGAAAAAA G G G G A A G G A A A A A A A A A G CA A C A A A A A A C C GAGGGGGG G G A A $A C A G G G G G C A G G A G A A G A G G G A G G A A A A A A A C G G C C A A G G G G$ G GAGAGCCGGGGGGGGCCAGAGGAGAGAAGGAAAGGAAACGG GAAACCGGCCAAAGGGGGAAGGCCGGGGGAGAAGAACCAGAA A GAGACGAGGGGAAGGAAGAGGGAAAAGCCCCAAAGGGAGAA G G G G G G TACCAAGGAATAAGAAAAGGACAGACAAAAGGAAAA A A A A A A A A G G A A G G A A A A C C G G G G A G A G G G G G G G A A A A G A G A G G G GAGCAGGGGAGGAAGGGGGAAGGAGAAGACCAAGGAGGG GAAAAACCGGAAGGAAGGCCGGAGAAGGGGGAGGAGGGGGGA GAGAGGAGAAAGGGAGAAAAGGGAGACCAAAGGBAAAAGGGG
 $G G C A A C G G A G C C G G G A G A A A A A A A A A A A A C G A A C G G C G A A G A$ G GAAGGAGAAAGAGAGCCGGACAACAGGAAGGAAAAGGAAGA

A A A A C CAGGGATGGAGGAAGGCGGGGGAGGCAAAGAGAAAAG G G G A A A A GACGAGAGGAGAGCACCGGCCGGAGAAAGAAAGAA A A A GAAAGAAAAAGCCAGAGAGACGAGGCAAGCCAAGGGGCC G G G GAGGGGGAAAAGAAAAAGGGGCCAAGAAGGACCAGAGGA A A G GAGAGGGAAGAGGGGGGAAGGAACCACGAAACAGAGGGG
 G GAA A GAA $A$ A A A GAGAGAGCCCCGGGACCAAGGCCAAGAAAAA AAGGCCGGTTGAAAGGAAGACCACAACCGGGAGGAACCGGGG
 G GAAAAGGAGAACCAAAGCCGGAAGGAAAAGGGGAAAACAAA G G G GAAAAGGAAAAGAGGAAAAGGCAAGGAGGGGAAAAGGGG
 GAAAAAGGAAGGAAGGCCCCAAAAGAGGCCGAAAAAAACGGC A A GAGAGAAAGAAGCCGAGGCCGGAAGAGAGGCCAAAGAAAC G G G G A GCC C G G A A G G G G G G A A GCCCCGGAGAGAGGAAAGAAA G GAA $\operatorname{A}$ GAAAGCCGGAAAAAAGGAAGGAGGGGGAAGAACGGCC
 AA G G A A A A GAA ACACAGGAGAGACCCCCGGAAGAAGAAAGAG A A A A A GA $A G G G G G A A G G G A A G G G A G A G G A G A A A A A A A G A A G G$ G G G A A G A A C C G A G G A A A A A A A A C CAGGAAAGAA GAAAGC C GA AAAGGAGAGAAGGAAGAGGGGGAGCCAGAAGGAGGGCCAACC G G G GCCAAGGGGGGAGGGGGAAGAAAACCCCACAAAGGCCGG G G A G A A A G A A C A A A G G G A G GAA A A G GAGAACC GAA GAGAG GA A G A A A GCCAACCCCAGGGGGGGGGGGAAGGAGGGAGAAGGCC G GAGAGGGAACCAGGGGAGAGAAAAAAAAAAAGGGGAAAAGG GAGGGACAAAACAGCACAGGGGAAAAGGGGAAAAGGCCAACC A GAA $\operatorname{A} G \mathrm{G} A \mathrm{~A} A A A A A G A C A C A G A G A G A A G A A A C A A A G A A G G C G$ GAAGAAGGGGCCGAAGAGAAAGAGGGGGGGGGGGCCGAAAAA A A A A A CAGGCAGAAGGAAGAGGCCAGATAAAAGAGGCAAAAG GAAGGGCCGACGAGAAAGAGCAGGGAAGGGGGGGGGAAAAAC GAAACCAGACAAGGACAAGGAAGGGAAAAGAACCAGBGAAAG AAAAGGAAGGAACCCCGGAACCGAGGGGGGGGCCGGAAGGGA G GAAAAGGACAGGAGGCCGAAGAGAGGGACGGGGAAGAAAGA A A A A G A A A A A A GCAACAGGGAGGGCCCCGGGAGATAGGAAGA GAGGGGAAAGGGAAAGAGAAGAGGAAAGGAAGAGCCCAAAAA GAGGGGGCCAACAGCAGGAAAGAAGGGGGGAAAGGGGGAGAA GAAAAAAAGGGGGGGAAAGAAAGGAAAGAACCAAATAAAACC $C \subset A A A G G G G A G G C C G G A A A A A A G A G G A A C C G G A A A G C C G G G G$ CAGACAAAAAAAGAAAGAGGGGCCGGGGGGCCCCCCCAAAAA
 A A A A A A A A A GAGGACAAAAACCCCAAGGGGGGACGGGAAACC GAAATTAAAAACGGAGGAAAGAAAGGAAGGCCGGGGAAAACA A A G G G G G GAAGGGGAACCGGAACCAAAAAGGAAAGAGGAGAG G G G GAGGAAAAAGGCCAGGGACCCAGAAGGAAGGAAAAAGAA T TA $A \operatorname{A} A C A G G G G G A G G G G G A A G G G A A A G G A G A C A G A A A G G G G$ G GCCAGGGAAGGAAGGAAGAGGAAAGGGAGGAGCGAGGGGGA G G G GC C A G A A A A G A C C G G A A G G G G G G G A G G T T G G A G G G G G A A AACAGGGAAAAAGGGGAGCCAAGGGGGGCCACCAAGAAAAAA GAAAAAGCAAAAACAAAAGGGGGGAAGGCCAGGGGGAACCGG GAACACCCGGGAAAAAACAGAAGAAAAGGAAGAGAGAAAAGG G GAAGGCCCACCAAAAGGGGAGGAAAGAAGCAAAAACCGGCC G GAAGGAAAAGGAGCCGGAAAAAAAAGGAAAGAGAGGAGGCC GAAAAGAAGGGGGGAGAGGAGAGAAGGAAGAACCGAAAAGAA ACGAGGGGAAAAAAAAAGCCGGAAAAAAACGGACGGAGAGAG GAGGGGGGAAACAGGGAGAGGGGGGGAAAAGAGATTAACCAG A A G G A A G G A A G G C C G G A A G G G G G G G GAAAAAGGAAAAGGCAAA A A G A A $\mathrm{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G}$ GAAGGAAGGACAAAAAAGGGGAGCCAGAA G G G GCCGGGGAAAGACAGCAGGGAAGGAACGAAGAAAACAAA $A G A C A G G A A G C C A G G G G G A A A A G A G G A A A A G A G G G G A G G G A A$

ACGGCAAAGGAAAAGGGGAAGGGGAACCAAGGAAAAGGAGAA
 AAAAGAGAAAGGGGGGAAAGAAAAAAGGGGGGGGGGGGAAAA G GAA $A \operatorname{GAA} C \subset A A A A G G A A G G G G G G G G G A A G A A A A A A G G T T A G$ AAAGAAAGGGCCAAGGAGCCAGAAGGGGCAAAGAAGAGGGGG G G G A A A A C C C G GA G G G G G A A A A C C C A A A G GAA $\mathcal{A} G G A G G G G G G$ AAAGAGGAAAGGCCAAAAGAAAACCCGAGAAAACAGCCAGAA
 G G G G A G A A A C A A A G A C G G G G G G A A G G A A A C A A A G GA G G A G A G $C C A A G G G G G A G G A C G G G G G G A G G A A A A A A A G G A G G G C A C A A A$


$G C C A A A G G G A A G G C C G A A A A A G G T A G G A A G A C C A C A A C C G A$ $G C A A C C A A G G G G A A T A A A C C G G A G A G A A A A A A A A G G G G G G A A$ A G GAA A A A GACCGGGGAACCAAGGAACAAGAAAAGACCAAAG $C C G A G G A A G G C C G A C C C A G G G A G G G A G A G A A A A A G G A A A A G A$ A G GA G A GAAAGAAGGGAAAGGAAAGGAGCCCCGGGAAAGAAA GAGAAAAAAGGAACGGGAAAGGCCGGAACCGAGGAGGAGAAA G G G G GAGGAAGGAAGGAAGAGGGGGAAAGGAAAGAAAAAAAG GAAGACAAGAAAAGGAGAGAAGAAAAAAGGGGGGAAGGAAAA A A G GAAGGGGAACGAGAAAAGGGAGAAAAAAGAGGAGACAAA G G G G G G G G G GAAGGAAAGGGACAAAAAAAAAACCAAAAAGAA A A A G A A G G G G G G G G G G C A C A G A G G G G C A GAGAG GAACAAAA $A$ A A A G A G G G G A G A G G G G A A A A G G G A GAGACAAC GAGACAA A A C CAAAAAAAGAGGAGAGGGCCAAGGCAGGGGGGGGAAAGABAA G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGGCAAA A G G G GAAAGGGGGGAACCGGGGAGGGGGAAGGCCGGAAAAAA A A A A G A G G G G G GCC $C$ G G G GCAGGGAGACAGGGGAAGGGGAGAA A G GAAACCAACACAAGAGAGCGAAAAGGGGAAAAGGGAAAAA AA $A G T A A G G G G G G A A G A A A G G A A G G A G A A C G A C C G G G G A A A G$ A A A A G G G G A A G G G A G G G G A A A A A A G G A G C A GA G C A A G G G G A A AA $A G G G A A G A G G G G G A C C A A G G G G G G A G G G A A G G G G G A A G G G$ A GAAAAGGACAAGAGGAGGGCCAGGGAGAGAAGGAAAAGAAC $A \subset C C G G A A G G A G G G A G G A G G C C A A G G G G C C A G A G A G G A A A A A$ G G G G G G G G G G G G G A A A A A A G G G G A A A A G G A G G G G A G A G G A A A A G G G A G G G G G G G G G G A A A A C C C C A A G G G G G G GAACAAC A A G G G G G GACCCCAAAAAAGGGACAGGACAAGAGGGGGAAAGGAGAG $C \subset G A G G G G A A A A C C G G A A A A C C G G A G C C A A A A A A G G G G T T G G$ G G G G A G A C G G G GCCAC G G A A A A A GCCAA GAAAAAACAGGGGG $G G C C A A A A A G G A G G G A A G A A G G A A A A C C A A A A G G A G A A G G G G$ A A GAA A A C G A GAGGGAGGGGGGAGAAACGGAAACAAAGAGGG A G G A A G A C G A G G A A G G G G A A G G G G G A C C G A G G G G G G A G G A G G GGAACCCCGGGGAACCGGGGGGGGAAAAAAAAAAGGGGAAAA A A A A A A C C G G A A A A G G G G A A G G G G G G C C G GC C A A A A G G G G C C A ACCAAAAGGAAAACCGGGGCCAAGGAACCGGAAAAAAAGAA A CAGAGGAGAGGAGGAAGGGCAGGAAAGAAAAAGGGGAGGAA
 G G G GAA A A G GCCAAGGCCAAGGAACCAACCAGGGAGAAAAAA AAAGAGGAAAGGAGAGGGAAGAGGGGAAGGAAAA GAAAAAGG A A A A A A A G G G A CA $A \operatorname{GG} \operatorname{GAA} G G A G A T A G A C A G A A A C A A G G G G A G$ A GAG $A \operatorname{AAA} A G G G G G G A A A A A G G G A G G G A A G G G A A A G G A G A C A A$ AAAGGGGGAAGGCACCAAAAAGGCAAGGGGCCAGCCGAGGGC A A A G C C G G C C C A A A C C G A G G C A C A G G A G A A G G G G A A G A G G G G ACATGGAAGGAAGACCAGAAGGGGACAAGGCAGGACAAAAGG GACCGGGGAAAAAAAAGGGAAAGAAAGGAAAGGGAGCAGAAG GAAAGGGGGAGGAGACGGGGAACCAAGGAAAGAAAAAGAAAA A GAACCCCCCGGAAACACAGAGAGAAGGGGAGGGGGAAAAGA C C A G A G G G A A A A G GACAGAACCGGGAGGAAAGC GAGAAAAA G $A G A G G G A A G G G A A G A G A C A G A A A G G G G G G A G A A A A A A A G A A G$

A GAAGGGGAAAACCAAGGAAGGGGGGGGGGAAGGCCAAGGCC C C G GAAAA $A \operatorname{A} A A A A A A A G G A A A A G G G G A A G G A A A A C C G G A A A A$ A A G GCCAAAAAAGGCCGGGGGGGGGGAAAGGAGAAGTAAAGAG A GAGAAGGAGGACCGAAGGGAGGGGAGAGGAGGGGGAGAGAG AGCAAGCAAGCAAAGAAAAGAGAAGGCAAAGGAGGAAAGAAA G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{C} G A A A A A A G G A A G G G G G A C A A A G A G G G G C G$ G G A A A A A A G G A A A A G G G GAGGGCCGGAGAAGGGAACAGAGAA C CAGGGAACAGAGAGGGGGGAAGGAGGGGGGAAAAAAACAAA A G G G G A A GCCGGAAAAGAGGGAGAGGGGGAGGGGAGACAAAA A GAGAAAAAAAAGGAAGGGGAAAAACAAGAGGAGGGAACACC G G G G G G G G A A C C C C A GC CAGAAGGGGAAGGCCGGAAAAAA G G G G G G G G C C G G G G A A G G G G A A G G A A A A G G G G G G A A A A A A A A A A G G G G G G G G G G G G G G A A $\mathcal{G} G G G A A A A A A G G G G A A G G G A A A G G G G$ G GAACCAAAAAAGGAAGGGGAAGGAAAAGGCCAAGGGGAAGAG G GAAGGCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGGAAAA A A A A A A A A G G G G G G G G G G G GAAAAAAACCCCGGAAAAAA G GAA AAAAGGGGGGGGAAGGCCCCAAAAAAAAAAAAGGCCAACCGG A A A A G G A A G G G G G G C C G G G G G G A A G G G G G G G G G G A A A A G G G G AAGGCCCCAAAATTGGAAGGCCAAAAAAAAGGAAAAAAAAAA A A A A G G G G A A G G G G C C C C G GAAACGGAAAAAAGAAAGAAAG G AAAAGGGGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGCC
 GAAGGGCCAGAAGGGGGGGGGGGGAAGGGCAAGAACCCGGGG G G G G G G G G G G C A A G A C A G G A A G G G C C A G G G G G G G C C C C A C C C A A G G GCACCCAAAAGACCCCCAAAGAAAAGGGAGCAAAGGGG C C A A C C G G A C G A A A G GA A G G C C G G GAGGGAGGGCA G GA G G A A TAGGGAGGGAAAGGACAAAAGAGAAAGAGGGAAGCAGAAGAG A A A A A A A A C C A GAGCCGGGAGAAAAAGGGGGGGGAGGGAAAA A G G G G A G G A A G A A A GAAAAGCCGAGGAGGGAAAAAGAAAAAA G G G GAAGACAAGAGGGGGAAGAGGGGAGAAAAGAAACCAAAA C C G G G G A A A A G GAA $A \operatorname{A} A G A G G G G A A G G A A A A A A G G A A A A A G G G$ G G G G T TC CAGCAAGGAAAAAACACAAAGGGAGGGAGAAAACC G GAAGGACGACCAAGGGGAAGAGGTTACAAAGAAGGAAGAAG CAAAAAACGGGGAGCCGGAGAAAACAGGGGGGGGAGGGABAA GAACAGACAGGAGGGGCCAAGGAAGGCAAAGGAAAAGGAAGAG G G A A C C A G A A G G A G G A A A G GAC GAGGGA GAAAGAAA AAAA A A
 G G G G G G GAA $A \operatorname{GGA} G A A G G C C A G G G G G A A G G A A G G G G G G A C A A$
 G G G G A A G G A A A A G G A A A A G GCGGGAAAAATAGGGGACC GA GA G G G A A A A A A A G GAACCAAAAGGGGAAGGGGCCAACCGGGGAC A G G G G G T T A A G A A A G G G GACGACCAAGGAAAAAAGGCCAAAA TTAAGGGGAATTAACCGGCCGAAAAGGGGGAGAGAGGAAAAA
 AGCCGGCCACGGGGAACCAAGGCACCAAAAGGAGGAGGAAAC
 A A A A G GAA $A \operatorname{GACA} G A A A A A A C C A G A A C C G G G G A A A A A A A G G G$
 GAAAGGCCAAAAAAGAAGGGAAGGCCAAAAAACCAGAAAGAG G G A G A G G G A G A A C A A G G A G G G G G G G G G G A C A G C C A G A A C A G G AAAGACCACACCCGGGAGAGAGGGCCAAGACAGGGGGGGGGG A GAGAAGGAGAGGGAAACCCCACAGGGGAGAGGGAACAAACC A A A A A ACCGGCAAAGGGGCCGGAAGGAGGAAAGGAGAAAA GA A G G G GACCAGAAGGAGAAAGAAGGAAGGACAAAAAGACAGGG AAAGGAGAACGGAAAAAGAAGAGGAGAAGGCCAAAGGGGGGG G G G GCAAAGGGGAAAGAAACCCAAGGAAGAGAAGGAGAAGAG AAACGGGACCAACAGGGAACCCGAGAGAGAGGAAAAAAAAGG A A G G A A A A G G A A A A G G G G A A G G A A G G A A G G G G A A CACAAA CA $A G C C A A A A G G G G A A A G G A G A G G G G A G A A A A A G C C G A A A C C A A$
$C C G G A A C C A A A A G G A A G G A A G G G G G G C C G G G G A A G G G G G G C C$ G G A A A A G G G G G G G G A A A G G A A G G A A G G G G A A C G G C C G A A G G G G G G A A A G A A A G GA $A$ A $A \operatorname{GGGGGACGGGGCCAGAAGGGAAAGGGG}$ A A G GAA A G G GACAGAAAAGGGGGAGGGGAACCAAAGGAGGAC G GAAA AAAAGAAGAAGAAGAAAAAAAGACAGAAAA GACAGAG CAGACAAAAGGGGGGGAGAAAGGGAAGGCAGGACGGAAAAAG A GAA A G G G GAAAGAAAGAGACCAGCCGGCCAAAAGGACAAAC $A G G A A A A A G G G G G G G A A G G A A G G G G G A G A A G G G A A A G G A G A G$ GACAGAGGGAAGACAAAGAAGGAGAAGGGGGGGGGGGAAAAG G G GAGAAGGAAGGAGAAAAAAAAAAAACAGGGGGAAAGGAGG A G G G G A A G A G G A G G G G G GAA A GAAAA A A G G G G A GA G G GAAC $C$ A A A G A GAGGGGGGGGGACGAAAAAACGGCCGGGGAGA
AAGAGGAAACCAAAACAGAAAGAAGAGCCAACCGGAAGAAA $C \subset C C G A A G G G G A A G G C A A C A A G A A A A G A C A G G A A A A G G G G A A$ G GAAAGCCGGAAGGGAAGAGAGAGGGGGAAAAAAAGAAAGAA GAGGGGGGGAGGAGAAAGGAGGGGGGGAAAAGGGGAGAGGCC A GAA A G G GACCCACGAGGCAAGGGGAAGCCAGAAGGGAGAGG AAAACCGGAGGGAAAAGGGGGGAGAACCGAAGAGBAAAACAG A G G G G GAAAAACAGGGAAAAAAGGAAAGGAGAGGGGGGAAAA C CAAAAGGAGACAGAAAGAGAGACGGAGAAAAGGTTGGAGAG G G G G GAAGGGCACCCGAAAGAGAGGAAAGGAAGAAGAAAAGG A G GACCAAGCAAAAGGGGGGGGAAAGAACCCCGGGAGGAGAA

 C C G GAA $A \operatorname{GAAA} A G G G G A G A G A A A A G G G A C C G C G G G G G G A G G G$ $A A C C A G G G G G G G G G C C A G C C G G G G G A A G A A G G G A A A G G G G G G$ C CAGGACAAAGGACGGACAACCGGAGAAAAGGGGGAAGAAGA A GAGAGAAACGGAGAGGAAGAAAAGGGGAGGAAAAGGACCBG A G A A G A C A G G G A A A G G A G G G G G G A A A G G G G A A G G G G C A T A A G A A G G A A G GAA $A \operatorname{ACC} C A A G A A G G G G G A A G A A A G G G G A A G G G G G G$ A GAGCAAGGAGAGAAAAAGGGGAAAAACGAGGAAGGAAAAAA G G G G G G G GAC GAGGCC GAAGAAGAGGAAACGAGGGGGAAAGA G GCCAAAGGGAGAGAGGGAAGGGGAGAAAGGGGGGGGAAAAA

 A GAA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} A \mathrm{G} A \mathrm{~A} A A A A G A G G A A G A G G C C A A G G C C A A G G G G$ GGCCGGAAAAAAGGGGAAAAAAAAGGGGAAAAAAAAGGGGGG G G G GCCGGCCAAGGAAGGAAAAAAGGAAAAGGGGCCAATTCC G G A A G G G G A A A A A A A A G G A A A A A A T TAAAAA G G G G G G G G G G C C
 A A A A A A G G G GAAAA A GAAAAAAAGGGGGGGGCCAAGGGGGGGG $G G A A G G A A A A A A A A A A G G A A G G A A G G A A G G A A A A A A C C A C A A$ $C \subset C C G G G G G G G G G G A A G G G G C C G G G G A A G G A A A A A A G G G G G G$ $A A G G G G G G G G G G G G A A G G G G G G A A G G A A A A G G G G G G A A G G A A$ AAGGAACCAAGGAAGGAAGGGGAAAAAAGGGGCCAACCACAAA C CAAAAAACCAACCAAAAGGAAGGAAAAAAGGAAAAGGCCGG CCGGGGGGAAAAAAGGAAGGAACCGCGGAGGAAGAGAAAGGG AAAAAGAAAAAGGGAAAAAAAGGGAGAGGGGACCAAAGAGAG G GAA $A \operatorname{GAA} A A G \operatorname{A} A A A A A A G A A A G G G G G G A C G G G A G G G A A C G G$ C CAAAAAGAAACCCGGGACCACGGAAGGAAAAAACCGAAAGG A G G G A G G A A G A G G G G G CAAAAA A A A GAC GAACAC AAA GAGAG A G G GAA A A CA $A \operatorname{A} A G G G C C A G G G G G A A G A A A A G A G A A G A G G G G A$ GAAAAACCAACCAAGGAAGGGGAAGGAAAAAAAAAGAAAA G G G GAA $A \operatorname{A} A A G G G A A G G G G A C C G G G G C C A A G G G A C A A G A G A A G G$ $C \subset G A G G G A A C G A A G C A G A C C G G A A G A G A A A G G G G G G G A A A G G$ A A A A A A A A G GCCAA $\mathcal{A} G G G A G G G A A G A G C C G G G A A A A G G A G G A A$ $G G A A G G A A A G A G G G G G G G A G A A G A G G A G G A G G G A G A A A G G G G$ A G G A A A A A CAAAAAGGAAGGCAGGAAAACCGGGGGGAAAGAB GAACAAAGAGAAAGAAAGAAAAGAGGCCGGAAAAAACCGGCAA

A G GAGGAAGGCCCACCACAAAAGGGGGGAAAAGAGGGGAGGG CACA $A \operatorname{A} A A A G G G G G G A A A G A G G G A A A A G G A A G G C C G G A G A A G G$ A G A A G G A A A A G G G A G G G A A G G G G G A G G G G G G G T T A A A G C C A C AGCCGAGAAGCCAAAAAGGAAGGAGGAAAAAAGAGGAAGGBA A G G GAA $A \operatorname{A} A A G G G G G A G G G G G G G G A G A G A A A G G G C A A G G C G G$ A GAGAGACGAGGACAGAAAAAGAAAGAAAAAAAGGGGAAAAG A G A A G G G GCCAAAAAGGGAGAAAAAGAAAAACGGACGCAGAG A G G G G G G G A GAA A A GAAGAGAAGGAAGGAGCCAAGAAACGCA G G G A A A G G A A G A A G A A A G G A T T A A A A A A G G G G G G G G G G G G A G AAAGAAGGAAAAGAGGAGGAGGAGAAGGGGAAGAATACGAGG G G GAAC GAACAAAGGAAAGGGGCCAAAACCGAGGACCCGGAG A A G G G A G G G G G A A G A G A C A G G G A G G G G A G A A A C A C C A G C C A A

 G G G GCAAAGAGGCCAACAGAAGAGTTGGGGAAGGGGAAAAAC $A G C C G G G A C C G G A A G G A G G A G G A A G G A A G G A A A G A A G G G G G G$ G GCCAAGGAAAAGGGGGGGGAAACAAAAAGAAAAAGCCAAAA A GAGCCGGAGGAGAACAACCGAACGGGGGACCGAGGCCGGAG AAAGGGCGAGGAGAAGAAAAGGAGAAGGGGAAACAAGACAGAG A GAGGGCAGACAGGAAGAAGAAAAGGTTCCGGGGCCCCAGAA G G G GAAAAGGGGGGCCAAAAAAAAAAAAAGCGGAGGGGGGGA A A G G G G G G A G G GAGAAAAGAAAGAAAGGAGAAAGAAAAAAC $A$ C C G G G A G G G G A G G G G G G A A G G G A G G G A A A G GA G A A A G A A G A A A A A A G GAGAAAAAGGAAGAGACACAAGGAGCCCCAAAAGGCC A G G G G G G A A A A A G G A GAGCAAAA A A A A GAAA A G GA G GA GA G G A GACCGGGGAACAGGGGCCAAAAGGAAGGAAGGCACCAAGGAG A ACCAGAAAGAGAGAGGGGAGAGGGGGACCCCAAGGGGAACC G G G G G G A A A A G GA $\mathrm{A} G \mathrm{G} G \mathrm{G} G A \operatorname{A} A \mathrm{~A} A C A G A A C C G A G A G G A A A A A A$ AAGGGGAGACACGGAAAAAAAGAAAAGAAGGAAGAAAAAAAA GAAGAGAACAAAAAAGAAAAGACCGAGAGGCCGAAAGAAAAG $C \subset A A C C G G G G G G G G G G A G G A A A A C G G A G G G A A A A G A G A C A A A$ G GAAAAAGGAGGAACCAAGAGGAAGAGGAGAAGGAGGAAC GA G GACGAAGAAGGAAGAGGAAAGGGAGAGGAGGAAAAAAGGAC GA GAA $A \operatorname{GAAA} G A G A A G A A C C G G G A G G A A A G A A G G C A A A A G C C$ C C G G A A A A G G A A A A G G G G CACAAACCGGGGCCAGGAAG GGGA G G A A G G G G G A G G G G G G A A C C A A A G G G GA A A G A A G A G G A A G C C G G G GAA A ACC G G G G C C G GAGAC GAGCAAAGGGGGGGGGAA GA G G G GAAAAAAGGAAAAAAACGGAGGAAGAGGGAAA GAGAG GA G G A G A A C C G A A G G G G G A A G G G G A G G G G A G G G G G G A A G A G A G G A A A A GA $A \operatorname{GA} A G A G A C A G G A G G A A A A G A G G G A A G A G A A G G A A A$ G G GAGGAGGGAGAGAGGGGGAAAAAAAAGGCCGGAGAAAAGA A GAA A A $A \operatorname{AGGGGAA} A A G G G C C G G G G A A A A C C G G A A G G A A A G C C$ AAAAGGAAGGAAGGAAGGGGAAAGAAAAAAGAAAAGGGGGGG G GAAAGGACCAGGGCAGAGGGATAGGAGGGGAGGGGGGGGGG ACAAAAGGGGAGCCAAAACCGGAAGGAAAAAAAAGGGGCCBG G G G G A A A A A A G G G GAA A C G G A A G G A A G G G G G G G G G G C C A A A A C C G G G G G G A A G G A A A A A A G G A A A A G G G G G G A A A A G G G G G G C C G GCCGAGGGGGAGGAAGGGAAACCAACCGAAGGGGCGAAAAG AAAGAGGGTTAGAGCCAACAAAGGGGAAAAGGAGGAGGAGAG
 G GAAAAAAAGAGAAGAATAGAAGAGAAAGATTGGAGGGAGAA A A A A $\operatorname{A} G C \subset G G G G G G G G A G G G G G G G G G G G C A G A A G G G C C G G T T$
 GAAGGAAAAGAAAGGCAAAGGACAGGGGGGATGAAACAAAAG A A G G G GAA $A \operatorname{GG} \operatorname{A} A A A A A A A G G G G A A G A A A C C G G G G C C G A A G A A$ GAACAGGGGAAAAAGGAGGAGGGACCGGACAGCCCCAAAGGG

 G G G G G G G G A G G GAACCAAAAGAGCAAGGGAAAGGGGAAAAAC

GAGGGAACGGAAGGGAAGAGAGGGGGAGAAGAGGAAAGAGGA A A A A G GAAAAACCCAGAAAAGGGAAGCAAAGGAACCAATTGG G GGGAAAAAAGAGGCCGGGGACGAGAAAGAAGAGAAAAAAGA G G G GAA A GAAAAGGAGAGGAAGAGCCAGAGAAAAGGCCBAAA AA $\operatorname{A} G A G G G G A A A A A G G G G A A A A G G G A G G G G A A A C A C A A A G A G$ G G G A C A G G G G G G A A A A A $\mathcal{A} G G G G A G G G A A G G C C G G A A A A G G C A$ G G G G G G A G A A A A T T A G G G G G A A G G A T A GAC GA GA GA GA GACA GAAGGGGAAAGAAAGAGACCGACAAGGAAAGGGGGGAAAGAA G GAA A A A G G G G GAAAACCAAGGAAAAAGGGAAAAGGGGAAAA G G G GAAAAGGAAAACCGGGGAAGGGGGGAAAAGGAACCAAGA A A A A A A G G A A G G G G G G G GCCAGGGAAAGAAAAAAAAGGCCCA G G G G GCCCGGAGCCGGAGGGGCAAGGGAGGACABCGA
A ACGAAAAAAAAGGGGGAGACGGAGGAAGAAAAGAGGAGCC A G G G G GACGGAAAGAAAGAGGAAGGAAGAGGGGAAGCA GAAG A A A A G A A G G A A G G G G G A G G G G G A G G GA G G A A G A A G G A A G G A A G G GACCAAGAGGGGAAGGAGGAAGGGAGAAAGACCAAAACAC A GAGAGCCAAAGAAGAAACACAGAGGAGAAGGAACAACAGGG A A G G A A A A GAGGCAAAAGGAAAGGGGGGGGCCGAGAGAAGAG GAAAGGAACCGAAGGAAGAGGGGAGAAAAGGGCCAAGAAGAG A A G G G G G GCC G G A A G GCC G G A A G G G G G GAAAAAA G G G G G G G A A G G G GAAAGAAGGGGGAAGGAAGAAGGGAAAAAGGAAAACAAA GACCAACCAAAGAAGGCCAAGGAGGGGGGGGGGGAAGGGGAG A A G GAGGGCCGGGAAAGGGAAAACGGAAGGAGGGGGBCAAGB G G A G G A G G G G G G A A A A A A G GA $\operatorname{A} A A A G A G G A A A A G G G G A A G G A G$
 G G A A G GAACC A G G G GAAGGGGGGAAGGCCAAAACCCCGAGAAA G G G G G GAGAAAAAAGAAAGGAAGAAGAGGAAACACCCCACAC G G A A A G G A A G G GAGCCAAAAAAAAGGGGCAGAAACCCCAAGBG A GAGAAAGAAAAGGGGAAAACAAAGAGGGGGGGGAAGAAAGA C C C C G GAAAGAACCGGGGGGAGGGAGGAGGAGGGGAAGAAGA A A G A G G G G G G G A A G C C A G G G G G A A G A A G G G G G A A G G A G G G G G A A G G G GAA $A G G G A A A G A A G A G A A G A G G A A G G A A A A G G A G A A A$ C C TAA A G G G G GACCACGGGGGACACCAACAAGAGGAAGAA GA
 G GAA A GCCAAAAAAACAGACGGGAGGGACCGAGGAAGGGGCA GAAAAACCAAAACCGGAAAAAAAACCGGCCGAAAGAAAAAGG C CAGGAAGCAAGGGACGACCAAGGAAAAAGAGGGAAAAGGTT G GAACCAAGGAAGAAAAGCAACAAGGGAAGGAAACCGAGGGA G GAA A G G G G G GAGGAACAGAACAAAAAAAAAGAGGGAGAGAA A A GA G A A A A A C A A A G G A C A A A A G GAAAAAAAAC G GAA G G G G G G $A C G G G G A G A A A A T T G G G G C C A A G G G G A A A A A A C C G G C A G G A A$ A G C C A A A A A A A A G G A A A A C A A A GAGGGGGGAAACA G G G A T T A AAAAAGGGACGGAAGGGGGGAAATAACCGGAAAGGGGGGGAA A A A A G GAA $A \operatorname{GAA} C \subset G A A G C C G A G G A C G A A G A A G A G G C C G A G G$ G G GAGGAACCAAAAGGAAGGAAGAAGAAAGAGCAGGAAAGGG A A A A A ACCAGAAAAGGGGCCGGAGAAGGAGAACAAAAAGGAA A G G GACCCGGGAGGAAGGAACCAGAAAAGAAAGGAAAAAAGBG A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G GAAAA G G G G AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGGAAAA A A G G A A G G A A A A G G A A G GAACCGGAAAACCAAGGGGGGAAAA G G G G A A A A G G A A G G G G A A G GAA $A \operatorname{GGG} \operatorname{GA} A G G G G G G A A G A A A A A$
 G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A A G GAACCAACCGGGGAAAAGGCGGGACGAAGGGAAAAGGGGAG $C \subset C \subset A A C A A G A A A A A C G G G A A A G A A G G G G G G G C C A A G G A A A G$ A A G GCAGAAGAAAAGGGGCCCCAAAAGGGGAGGGGACCAACA GA GAAA A A GAGGAAAAAAAAAAAGACAAGGAGAGAAGGAACA CAAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A C G G C C G A G G G A G G G G G G G G G A G C A C A C A G$ GACCGGGGGGGGAAAGAGCCAACAAGACAAGGGAAAAAGGGG

GAAGGGAAGGAAAAAGCAAAAACCAAAACCTTGGGGAAAAAA $C C G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C C A A G G$
 A A G G G G G GAA $A \operatorname{AGGGGGAGGGACAGGGAGACAAAAGGGGGGGG}$ A A A A A A A GAAA ATTAAGGGGAAGGCAGATTAAAAAAGAACAA A A GAAAAAAACCGACCAAAAGGGGAGAAAGGAGAAGGAACGG G G G G A A T T G G A A A A G GCCCCCCAAAAAAAATAAAAAG GAATT AAAAAACCAAAAAAAAGGGGGAGGGGGAAAGGAGAGCAGGAG A A A A G G G G A G GAG GAGCCGGGGAAAGAGGAGAGAAGCC G GAA AAGGAGAAGGGGAGACAGAAACAAAAAAAAGCAAAGGGAAAA G GAAAAGAGGCCAATACAAAGAAGAAGAAACACCCAAGAGAA G G A A C A A A G A A ACACACCCAGGCCGGGAAGGATTAAAAGGGA A A A A G GA $\operatorname{A} A A \operatorname{A} A \mathrm{~A} G \mathrm{G} A A A A G G C C C C G G G G A G A G G G A A A A C A G G$ G G G GCCAGAAGGAAAAAAGGGGAGGGCCCCAAGGGCCCGGGG G GAAACCGGGGCAAGGGGAGGAAAGGAGAGGGGGGGGAGGGG AAAAAAAACCAACCGGGGAAGGAGGAATGAAACAAAGGGGAC A GAGAGCCAAAGGGAGGGAAGAAAAGAACAGGAAAAGGGGAA G GAAAAGGACAGAAGAGGAAGGAAAAAGAAAAA GA GAAAAGGG C CAGAAGGAAGAAAGGGAAGGAAAGGCCAAGGAAAGAAGGGG A A A A A A A G GAA A G GAACCGAGGAAAAGGAAGGAAAGAGAAAA CAGAGAAGAGAACCCCGGGGGGCCAGAAGGAGGAGGAAAGGG A A G GCGGAGGACGGGGCACCCAAAGGGGGAAGGAAGGGAACC GAGGCAGGAACCAAAGTTAAAGGGGAAAGAGAAGCCGGAGAG A A GAGAGAGGAACCGGAACCGGGGAAGAGGAAAAGGAACCBG A G A A A A A A A G G A A A A A A A A A GAGGGAGGGGAAAAAAG GAACC G G T T C CA $A G G C C G G A A C C G G A A G G G G A C A A G G C C G G A A A G A A$ C C CA $\operatorname{C} G A A C C A G A A A G A G G G G G A A G A A T A C G G G G G A A A A A A A$ A A G A T A A GAGCAAAGGCCAAGGGGAAAAAACCGGGGGGAAAA G G G G G A A C G G A A G G G G A A G G G G G G GAGAAACCAC GAA GAAA A AAGGAAAGAAAAAAAAAGAAAGGGGGAGGCCAAGGAAGAGGG $A G C C G G G G A G A A G G A A G G C A C G A A A A C C G A A A C C G G A G A G A A$ GAACGAAAAACCCCGGAACCAAGGGAAAGGGGGAGAGAAAGA GAA A A A A A GCGGAAAAGGAAAAGGCCGGCCGGGGGGAGAGAA G GAA A G G A A G A A A A GAGGGGAAAAAAAAAGAGGGCAAA GACC GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A G A G A G A G A A A G A A G A G A G G A G G G G G G$ A G G A A G A A A A G G G G G G A A G G A C A G CAGGGAAGGGAAAAAAAA G GAA A G G GAACCAGAAGGCCAAGGGGCCGGGGAAAAGGAAGA G G G GAA $A$ GAAAAGGAAGACCAAGGAACCAGGAAGCCACAGGA A A A A G GCAA A G GCCAGCCGAGGAAGGGGCCGAGGAAGGBAAA C CAA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} G A A A C A A G G G A G G G G A G A C C A G C A G A A A G G A A$ A A G G A A A G A A G A A G G G G G G GCC G A G G G G A C G A A GAAC CA A A A CACCCCTTACCCCCAAGAGAGAAGCAAAGGAAAGGGCCAAAG G GCAGGAAAAGGAGGGCCAAGGGGGGAAGGCCGAGGAAAACC A A G GAA A G G GCCAAAAAAAAGGAAAAAAGGAAGATTAAAGGG G G A A G A G A A G A GAA $A \operatorname{G} G A A A A A G G A A A A A G G A G A C A A A A G G C A$ C C G G G G A A A A $\mathcal{A} G G A A A G G G G G G G A G G G A A A A A A G A A A A G G A G$ G G A C G G G G G G A A G G G G C CAGAGAAAGACGGAACCGACAAAA G G G G GAAAGGAAGGAAAGAGGAAAGCCAGGGGGACAAAGAAGG G GAGGGAAGGGGAGAAAAGGGGGGAAAAAGAGAAAAGAAA GA GAGGCCGGGGGGGGGGGGAGAGAAAAGGTTGGAAAAGGAAAA G G G A G A A G A GAACCGGAGGGGAAAGAGGAAAGCCAAAAGAAG G GACAAGGAAAAGACACAGGGGAGGAAGTAAAGAAGAAAA GA CAAACCAGAGAAAAAAGGGGAAAAGAAGGGGAAGAAAAAGAA C CAA A G G GAGCAGGGACAAGGAGGAAAACGAAGGGGAGAGAA G GAGCCGAACAAGGAAAAAAAAGAGGAGGGCCCCAAGAAAAA G G G G G G C C A G G G G G G G G G G G A G G G A A G A CAAA A G A A C C G A G G A GAA A GAAAAAAGGGGAAAAAAAAGAGGAAGGACGAGGAAGA ATAAAACCCCGGGGGGGGAAGGACACGAGACACCCAGGTTGG GAGAAAAGGAAAAGAGAAGAGGAACCGAAGAGAAAGAGAGAG

GAGGATCACGGGGGAGAACAAGGGCCGGAGAAAAGGGGAAGB $A G C C A A G A G A A G C G A G G G G A A G G G G G A G G G A A A A A A A A A A A G$ A A G G G G A $\mathcal{A} G G A A G G G G G G G G G G A A G G G G A T A C A A G G A A G G A A$ G G A A A A G G A A G G G G G G G G G G G A A A A A A A C CAAAAAAAAA A A A GAAAAAGGCCCAGAGGAAACACAACCTTACGACCGGGGGAGA
 AACCAACAGGGGAAGAAAAAAAGGAAAAGAAAGGAGAGAGAA AAAACCAGCCAAATGAAAGACAGGAAGAGGCGGGAAGGAAGA CAAACCGAACAAAGCCGGAAAAACAAGGCACCAAGAGGGGGG AACCCAAAGGAACAAAGAAGAGGAGGAAGGCAGGAAAAGGCC
 G GCCGGGAAAAAGGGGGGGGGAGGGAGGGGCCAAGAG
G G G A A A C A A G G G G A A G G G G C C G A G G A A G G G A T T A C G G G G G G C A A A A A A A A A A A G G A A A A A A A A A CAGGGGAAAGGCCGBAA G G A GAGAA $A \operatorname{A} A G G G G G A A T T C C G A A G G A A G G A A T G A A A G G A A C A$

 G G G A A A G G A A A A A A C CAAA $A$ G A A A GAGGGGGACC GAGCAGCC AAACCCACGGCAAGACGAGGAGGGGGAAAACCCCAAAAAGAG G GCCAAAAAAAGAGGAAGGGGCAACGAGTTAGAAAGCCAAGB AGGGAGGAAGCCAGAAAAAGGGGGAGAAGGGGAGAGCAAAAC A GAA A A G G G G A A G GAAA A A A T T G G A A A A G GAA G G G G G G C C A G G GAAAGGCAAAGGGAGGGGGAACCCCGAAGGAAGGAAGACGG C CAGGGACGGAACAAGGAAAAAGGGAAAACAAA GAAAGGGGG ACAGGGAGAGAAGGGGAAAAGGGAAGGGGCGGAGCCAAGGAA
 A G G G G G G G G GACGGAAAGCCCCAGCCACGGGGGGCCGGGGCA G GCA $\operatorname{G} A \mathrm{~A} C A A G A G A G G G G A A G G A C G G A A A G G G G G G G A A A A A G$ A GAACCGGAGACGGAAGGAGGAGGACAGAGAAAACCAAGGCC C CAAAAAAGGAAAAGGCCAGGGAGGAGACCGGAAAGGGAAGA $A G C C G G A A G A A A A G A A A G A G C C G G G G A A G G A A C A A G G G A A G G$ AAGGGGACAAAGGGGAAAGAAGGGGGAAAGAAACGGAGAAAA
 G G A A G G A G G G G G G G A G G G G G G G C C G A A C A G G G G G G G A G G G A G A A A A G A A G G G G G G A A G G A A A A A G G G G G G A A C C A G A A GAC G G A GAAACCTAAAGAGGCCGGGGAAGGAACGGGAAGAAGAGAGAC
 AAGGGGAAAAGGAAGGAAAACCGACCGAAACCGGGGAAAGAAA GAGGAAAGAAGAGAGGAAAAGGATGAAGAGAGGAAAGGGGAC $A C G G G G G G A A A G A G A G A G C A A A A G G G G G G G G G G G A G G G G G C A$ A G GACCAAGGGAAACGAGGAACGGACAAAAGGGGGGGGAACC GAGGAAGGCCAGAAAAGGGAAAAGCAGGCAAAGGGGGGAGAT G G G G G GAAGGGAATAACCAAGGAACCGAAAGGGAAGGAGAGG AAAGGGGGAAGGGGAAAGCCCCAGAGAAAACACAGAGAAAGG C C G GAAGGCCAACCGGAAAAGGAATTAAGGCCAAGCCCAAGBG G G A A A A G G A A G G G G A A G G G G C C G G A A G G G G A A A A A A G G A A G G C C A A G G G G C C G G A A G G G G G G G G G G A A A A A A C C G G G G A A G G G G A A A A G G G G G GAA A G GAGAAAAAGAAACCAAAAGGGGAA GAAA AA $\operatorname{A} G A A G A G A G A A A G G G G A A A A A G A G G G A A A A A A G A A A G G G G$ A ATTAAGGAAAAGGGAGGAAAGAAGGAGGAGGAAAAAGAGAA CAGGAAAAGGCCAGAGCAAAGGAGACACGGGAGAAACAAAAG CAAAGGAAAAAGAAGGGGAAAAGAAGAGGGAGAAGGAACCAG A G G GAAAAAGGGGGAGAAGGGGAAGAGGGACAGGCAGGAACA TATTAGGGCCACAAAAGGCCGGGGCAAGCCAGGGGGCCAAGA GAGGGGGGACGGAACCGACCGGGAAGAAAAAAAAAACACAAA GGCCCCAAAAGGGGGGAAAAAGACAAGAGGAGGGGATAAAGAG C GAA A G G G GAGAAGGGAAAACAAGGGCCGGAGAAAAAAAGAG A A G G A G A G C A C A G A A G A G G G A G G G A A A G G G G G A A A A C C C C G A GGGGAAAACCGGCCCAGGGAGAAAAAGAGAAAAAGGAAGGGG

G GAAGGAAAGGGAAAAACCCAAGGGGAAGGGAAGAGAGAAGG GACCGGAAAGGAGGGGAGGGGGGGAAAAAGAAAGAGGGGGGA G G GAA GAACCCAAAAACAGGCAGAAAGAAACAATGGGGAAAA G G G GAA A GACAAGAGACAGGCCGGACGGGGAAAAAAAACAAA A A GAGGAAAGGGAAAGAGGGGGGGAGAAATGGAACAAAAAAG ACGGAAAAAGGGATGGCCAGGAAAAAAAAAGGAATTCCGAGG A A A G G A A G G A G G A A GCGAGGGCCCAACCGGGGGGAAGAGGAA CAAAAGAAGGGGGAAAAACCGGCCGGAAGAGAAAGGAAAAAA ATAAAGGGCAAGCCAACAAAGGCCAAAGGAAGGGAAGGCCGG ATGAAGAAGAAGCCGGGGGGGGGGGAGGGGACGAAAGAGAAA A A A A A GA G GAGAAAAAAAAAGAGAAAGAAGGGACGGGAGGAA AACCGGAAGGAGGGGGGGGGCCAAAAAAAAGGCCAAGGGAGG A A GAAACCGGAAAAAACAAGAGAGGGAGGGCGAGGGCCACAA G G GAA $\operatorname{GA} \mathrm{A} C \subset A A G G G G A A A A A A A A A A A G A A G G A A A G G G G A G G$ AAAA AA G G GAAAAGAAAAAGATAGGGAAAAGGAGAAGGGGAA AAAGAAGGAGACAGCCGGGGAAGGAAGGGAGAGAAAAGGGAA G G GAAAACGGCCAAAACCCCCCGGCCACGGCCGAGGAAGGAA GACCAGGAAGAAAAAGGGGGAAAGAGGGAAGGAGBAACAGAA AAAGGGAAAGCCAAAAAAGGAAAAGGAAAGGGGGGGGGAAAAA G G G G A A G A G G G GA $A \operatorname{C} C A A G G G G A G G A A G G G G A G A A G A A A G G G$ GAGGAAAACCAAAAGGAAAGGAAGAGAAAGAAAAAAAAAAGG A G GAGGACCGGGAGAGAGGGACAGGGGGAAAAAACCTTAAGG
 A G A A A A G G A A A A G G G G T T A A A G A A A A G G A A A GA A A G G G A C G G A A G G G A A A G GAGGGAAAGGGGAGGGGGGAACCGGGAAAAAAA A GCAAAAAAAAAGGGAGAAAAGGGAGGGAAGGGAGAGECCAG G G G G GA $\operatorname{l}$ GAAAAGGAAGAGGAGAGGGAAGGAAAGGGAGGGGG G GAAGGAAACGAGGAGAGAAGAGGAGGGAAATCCAAAAGGAA
 AAAAAAGGAAGAGAGAAAGAGGCCAGAAGGGGGAAAGAAACC G G G G A G G A G G G G C A G A G A A A G G A GAAGGGGGACACCAAA GAA AGGAAGGGGGAGAGGGAAAGGGAAGAGGAAAAGGGGAAAGAA
 A A G G A A A A A A G G G G G G A A A A C C G G G G G G G G A A G G G G A A G G A A G G A A A A A A G G A A A A A A G G A A A A A A A A A A A A G GAAC C T T G G G G A A G G G GCCGGGGGGAAAAAACCCCGGAAGGAAGGAAGGGGCC
 AAAGGAGACAAGGAAGGGGGAGGGAGAACCGCCCACACAAGA AC G A A A C G A A A A A GAGCCGGGGCCAAA GAAAGGGGGGGA GAA T T G G G G A A G G A A A G G G G G G G G G A C C C A G A A A A G A A C A A G G A A CCGGGGAAGGCCAAAAAACCGGGGGGGGAAAAAAAAAAAAAA A A A A A ACCAAAAAAAAGGAAGGGGAAAAGGAAGGAAGGCGCC A A A A A A T TAAGGAGGGGGGAGGAAAAAAGAAGGAGCGAGAGA GAAGAAGGGGAAGAAGAGCCAAAAACGAGACCGAAGCGAGGA A G G GAA A G A G G A A A G G A A A A A A A A G G G G GACCGGGG GAA A A A
 GAACGGAGAAGGGGAAAAGGAAGGGGGGGGGGAAAAAAGGGA G GAGAAAAAGGAGGGACAACAGAGGGGGGGGGGGAAAGCAAG A GAAGGGACAGGGGGAAGAGAAAAAGAAGGCAGAAGCAAAAG AACCAGGGAAAAAAAAAAGACAGAAAAAAAGGGGCAGGAAAA G GAAAAAAGAGGAACCAGGGCCGGGGGGCCAAGGGGCCGGGG G GAAGGGGGGAAAAGGAAGGAAAAAACCGGCCAAAAGGAAGAG G G G G A A A A $\mathcal{A} G G G A A G G G G A A A A G G C C G G A A A A G G A A G G A A G G$ G G G G G G G G G G G G A A A A A A A A G GAA A GAAAA A GAAAACAAAAA AAAAGGGGCCAAAAAACCAACCAAGGAAGGCCAACCAAGGGG AACCGGGGAAGGAAAAAAGGAACCAAAAGGAAAAGGAAAAAA $G G A A C C A A G G A A A A A A A A G G A A G G G G A A A A G G A A A A G G A G A A$ A A A A G G G G A A A A A A GGGGAAAAAAGGGGTTGGAAAAAAAAGG $G G A A A A A A G G A A G G A A G G A A G G A A G G G G A A A A A A A A A A A A A A$

G G G G G GAA AGAAAACCAACCGGCCAACCAAAAGGGGCCAAGB A A A A A A G G A A G G A A G G G G A A A A A A G G C C A A A A G G A A C CAA G G A A G G G GAA A G G G A A A A C C G GAAAA A G GAA AGGGGGGAAAAA G G $C \subset G G A A A A C C G G G G G G G A G G A A G A C C A G A A A G A G A G A A A G G G$ G G GAGGAAAAAGAGGAAAATGGAAAAAGGAGGAAAAAAGGGG

 AAACAAACGGGAAAAGAGGGGGGGAAGGCAAACCAACCAACC G GACGGGAGGAAACAGGAGGAAAAAAGGAAACAACCCCAGAG AAAACCGGGGGAAGAAAGGGGAGGGGAAAAAAGAGGAAGGCA A GCCAAAATAAGAAGGGGCCCCAAAAGGAGAAAGGGGACCGG A A A C G G A C A A G G A G G G G G G G A GAGACACACCCAAGGA
A GAGGAAAGCCAAGGGGAAGGGAAGAAGGAGAGAAGGGGGG A A G G G G A G G A A A G A A A G GA A G G G G G GAGACAAAGCCAGAGAA A A A G A A G G G G G GAA A A G G G G G G A A C C G GAA A A A A A A A G GAA A AAAAAGAGGAAAAGGGCCAAGGAAAAGGGGAAAGGGAGAAGA A A GAAAAAAAGAGGAAGGCCCCGGGGAGGGAAAAACGAAAAG A G G G G G A GCACCGGAAGGGGTTAGAGGGCCAAAAAAACAAGA $A G G G A G G A A A G G G A A A G G G G G A A G A G G G A A A A A A G G G G A A G G$ G G G G A A G G A A A A A A A A A A G G G G A A G G G G G G G G G G A A G G C C G G AAAACCGGGGAAGGAAAAGGGGGGGGGGAAAAGGAAGGAACC G GAAAAGGGGAAAAAAGGCCAACCAAAAAAGGAAGGCCAGAAA G G G G A A A A $\mathcal{A} G G G G G G G A A G G G G G G C C G G A A G G A A G G C C A G A A$ G G A A A A G G A A G GAA $A \operatorname{GGAACCGGCCGGAAAAAAAAGGGGGGCC}$ G G A A A A A A T T G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A A G A A C C A A A A A A G G G G$ G G G G GAAAGGAGAAGGGCAGCCAAGGGAAAAAGGCCAGACAA AAAACAAAGGGGAAGGGGAAGAGGAAGGAAGGACCCGGGGGG A A A A A A G G A A A A A GAGAGCAGAGGCCGAGAGAGAGAGGGAGA G GCCAAAGGGAAAAAAGAGGGAGAGGGACAGGAGGGAACAAA $G G C C G G G G G A G G A C A G A G A A A A G A G A G G C C G A A A A A C A A G A A$ CACAAGGGAAGAAAAAAGAAGGTTGGAGACCCAGGGAA GAAA A A A A GAGGGGGAAGAAGGGGAAAAAAGAAAGGCCGGAAGAAG A A G G GAAA A G A A A A A A G GCCGAAGAGGGGGAAGGAAGGACAA ACCCCCCCGGGACAAAAAAGAAGAAACGAGGGTTAGCCAAAC $G G C C A A A A G G G G G G A A A A G G G G G G G G A A A A A A G G G G G G G G B A$ G G A G A G A A G A A A A G G G G G G G A A G A G G A A G G G G A G A G G G A T G A ACAACCGAAGACGAAGAAGGGGGGAAGGAGAGCCAGACAAAG ACAGGGGGGGGGGGGGAAAAAAGGCAAAAAAAAGGAAAAGGG A A G G A A GAGGAACCGGAAGGACGGAAAAGGAAAAAAAAAACA $G G C C G A A G A G A A A A G G C C G A G G C C G G A G G A A G A G G A C C A G A G$ A A A A G ACCGGTTGGAAGGGGGAGCCAGGGGCCCCAACCAGGG G GCCAAAAGAGGAAGGAGAACCAAGAGAAATTCCGGAAGAAA CAGAGGAAAGAGGGAACCAAGGACAGAGCAAAAAGGAAAAAA C CAAAA A A A CAGGGGGAAAGCCAAGAAAAAAAGGAAGGGAAA A A A GAGAGAGGAGAGGGGAACAAAAAAAGGAGAGGGCAGAGA GAGAGAAGGAGAGGAGAACAAAGGCCAAAAACAAGGGGCACB A G A A A A G G A A G G G G A A A A A G G G A A G G G G A GA A A G G G A A G G A A G GAAAAAGCCAAAAGGGGTTGGCCAAGGGAAACCCCGGAAAA A GACAGGACAAAGGCCCCAGAGCACCAGCCACAGAGAAGGGA
 $A G G G C C A A A A G G G G A A A G G G A A G G G G G G G A G G G A G G G A G G A A$ G G G GAAAA $A \operatorname{A} A A \operatorname{A} A G G G G G A A G A G G A G A G G A G G A A A A G G G G G A$ $C \subset A G A C A G G A A A C C C C A C G G A G A G A A C C A G A G G G A A A A G G G G$ G GAGGGGGGGAAAAAAAAAAGGAAGGAAAGGGGAGGAAGAAA $A A G G A C A G A A G G G G A A G A G A A G G G G G A A A C G G C A A G A G A A G G$ A GAGCCCGGAAAATGAAGGAAGAAAGAGAAAAAAGGAAGGAA
 G G GA $\operatorname{G} G A A A A A A A G G A A G G G A A G C C A A A G G G A A G G G G G A C C B G$ AGCACCAGAGAAGGACAGAACCAAAAAGAAGAGAACGAGAAG

GAGGAAGGGGAAGGCCAACCGGACAAAGAGAGGGAAGGGGGA
 G G G G G G GAGAACAAGGAAGGAGAAAAGGAAAGGACCAGAGGG A GGAACGACAGGGGCCGGAAACAAGAGGCCAAGGGGAGEGAG AAAGGACCAGGAACAGAGTTGAGGAAGGGGAAGGAAGGACAA AAGGCCGGGGAACCAAAAGGAAAAGGAAAAAAAAGGGGGGGG G GAACAGAGGGGAAAGGAGGAACAAAAAGGAAGAAAAAAAAA $G G A C G A A C A A G G A A C A G A A A A A G A G A A A A G A A C C G G G G A A A A$ GAGGAGGAGGAGCCAGGGAAGGGGGACCCCGGGGCCGAAAGA AAATGGGCGGGGGGAAGAAAAGACAGGGAAGGAAAAAAAAAA A G G G G GAAAAGAGGAACCAGGGACAAGGGAAAAAAATAAACC GAGGAGGGAAGAGGAAGGGGCAAGACGAAAAAGAAGGGAAGA GACAAACCGAAAAAAAGGAACCGGGGGGGGAAGGAAGGCCBA A G A G A G C C G G G G G A G G G A A C A G G G G G G G A C A A A A C C G G G G G G G G GAAA A GCCGGGGAAGGGGAAGGCCAACCAAAAAGGGAGGG G GACAAAAAAAAAGAAGAGGAAAGAGAGACTTAAAA GA GAAA G GAGGGAGGAAAAAGGAGGAAGGGGACCAGGGGAGGGGGGGA G G A A A A A CAA A GAGAGGGGGGGAAAAAAAAAAGGGGAAAAAA A A A A A A A A GGCCCCAAAAAAAAAAAAAAAAGGGGAAAAGGCC
 G GAAAAACAGGGGGAAACGGAGGAGGGGGAGGCCAAAGAAGA G GACAGGAAGGGACAAAGAGACGGGGGGCCAGAGGGGGCACA
 A A G G G G G A A C G A G G G G A G G A A A G G A A G G A A G GAAA A GA GAA A G G G A G A A A G GACAAAAAGAGAGAGAACAAGAGAGGGAAAGBG AACCGGAAAAAAGGGGGGCCGGGGAAGGAAAGAGGAGAAAAA A A G GAAAAGAGGAAGAGGAGGGACGGAAGAAAGGAAAAAAGA G GAG $A \operatorname{G} \operatorname{GA} A G G G G G G A A A A G G A A G G A A G G G G G A G A A G G A G G A A$ A A A A G GAA A A A G G GACGAGGGAAGGAGGGGAAGAAAGAAGGG G G G G A A GAGAGAAAAACCGGGGGGCCGAGGGGGGGGAGAAAA GACAAGGGAAGGCAGGCAAAAAGAAGGAAAGGAGAAGAAAAA G GCCGGGGAAAAAGGGAGAGGAGGAAAAGGGGGGGGAAGAAG CAAAAAAGGGGAGAGGAAAAGGGGCCGGAAAGAAGAAAAGGG G GAA A GAA $A \operatorname{GA} A A G G A A A G A A G G G G A A G G G A G A G G A A G A A A A A$ G G A A A GAA $A \operatorname{GGG} \operatorname{GAA} \mathrm{G} G A A C A A G C A G A G A G G A C C A A A G G C A A A$ A A G G A GCCAAGAAGGAAAGAACGGAAAGCAAGAAAGAACACC AA $A \operatorname{GAA} A A A G C A G G A A G G A A G G A A A A A A G G A A G G G A A A G G G G$ G G G G G A A A G GA GAAGGAACCGGCCAAAAAAGAGGAAAACAGA A A A G A GCAACCAAAAAAGGGGGAGCCAAAGGAGAGAGGGGCC
 A A A A A A GAGGAAGGCCAAGAAGAAAGCGGGAGAAAGGGAAAA A G GA G A G A GAA A A A A G A A A GAAAAAGAGAAGGAA GAACAAA G ACAAGGAAGGAAACGGGGCCGAGAGAGGAAAGGGAAGAAAAA G G G G G A A G A C G A A C A G G GCCGGCC G G G G C C A G A A A A G G A A G G G GAGGGATGGGGCCGGGGGACCGAAACCAGAAACAGGGGGCA G GAA A A A A G GAAGGGGAAAAAGGGAAGGAACAAGAGACAGAG GAAGGACCGAGGAGGAGGAACCGAAAAACCAAGAGGAAAA GA G GAAAAGGACGGAAGGAAAAGGAGGAGGAGGGGAGAAAABAA G G G G G G G G G G A A G G C A G G G G A A G G G GAGCCGGAAAACCAGAA A A A A A GAA $A$ GAGGAAAGAGAACAAGGAGAGGAAAGAGGGAGAA GAGGAAGGAGACGGGAAAAAAAGGGGGGGGAACCAAGGGGCC AAAGACAGAGGAGGCCGAGGCCCCGGGGAAGGGGAGAGAGAA G G A A C C G G C C G A G A G G G G A A A G G G A G A A A A GAACACAAAAC C G GA A A GAGGGGGGGGGGGAAGGAGGGCCCAAAAAAAGGAGAA $A \subset A A G A G G A G G G A G A C G A A G A A A A G G A A A A A A A A A G G G G G C C$ A A A A A A A A G G A A A G G G GAA $A$ A A A G A A A A GAGAGGGGGGA GA GA GAGAGGAGCAACAGGAAGGGAGAACCAGGAAAAGACAAGAAA A A GAG GCCAC GAG GAGACAGGAAGGGCCGGAAA GGGGGAGCC $A A G G G G G G A G G A A G A G G A A G A G A A G G G G G G A A A A G G A A G G C A$

CAGGGGGGGGGGAAGGGGAGGGAAGGGGAGGGGGAACAAAGA
 G G A A G G A A A A A A A A A A G G G G G G G G A A A A G GCCCC G GAAAAC C $C \subset A A A A G G A A C C G G A A A A G G C C G G A A A A G G A A A A A A G G C C A A$ AAAAGGAAAAGGCCAAAAAAAAAAAAGGGGAAAAAAGGAAAA G G G G A A A A G G G G A A G G A A A A G G A A G G G G A A A A G G A A A A G G C C AACCCCCCAAGGGGAAGGAAGGCCGGGGGGGGAAAAGAAGAA GAGGAAGGAAGGGGAAGGAAAAAAAAGGGGCCGGGGCCGGGG G G G G G GAGAAAACCGGAAAGAGAGAAGAGAAAGAGGAAGAAA GAAGGAAAAAAAAAAAACACGAAAAAGGGACAGGAAGGAAAA CAAA $A \operatorname{ACA} \mathrm{~A}$ G GAGGAACAGGGAAAGAAAAAGGACAGAGGGTT A GCAAAGGGGAAAAAGAAGGGGGAGGGGGGAACAGGA
CAGGGAAGGAAAAAAGGGGGGAGAAAAAAGGAACCAAAGGG
 A G G G G G G G G G G G A A G G A A C A A G G G A G A GAGGGGAA G G G A A T T AAAGAGAAGACAAAGCGAGGGACAAAGGGACCGGAAAAAAGA AAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGACBAGBAACC A A A A G GAAA A G GAGGAAAGAGAGGAGGGAACCAAAAGGCCAA AAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGGAAAAGA A TAGGAAGAAGAAGGAAAGGAAAAGAAGGGGAACGGGGAGAA A G G G GAAGGGAGAAAAAGCAGGCCGGAGGGAAAGGAAGAGAG G G G G G GAA $A \operatorname{GCC} C A A G G G A G G A A A G G A G C C A G A G G G G G A A G A$ GAGGAGGGAAAAGAGGCCGGAAGAAAAGCCGGAGGGGAAAAA A A G G A A G G A G A G G G G G A A C C G G C CAGGAAAAGCC G G G G A A A A A G G G G A A A G G G G GAA $A \operatorname{G} G \mathrm{G} A A C A A G A G G C C G G G G A A G G A A G A C C$ AAAGGGGGGAGAGGAAGAAGAAAATAGAGAAAACCCAAAGGA CAGGCCCCAGAGAAGGAGCCAGGAAGGGAAGGAGAAAAAAGG C C G G A A C C G G G GAA A C A A A A G G G G G G G G A A C C G G G G G G G G C C A A G G G G G G A A A A G GAAGGGGAAAAGGCCAAAAAAAAGAAAAA C C G GAAAA $A \operatorname{A} A A A A A G G G G G G A A C C A A C C G G A A G G G G G G A A G A$ A A G G G G A A G G G G G G A A G G C C G GCC GACAAGAAGAGGCAACAA G GACGAGAGGGAAGGAAGAGGGAACCGGAACCAAGGAGAGCC CAAACCGGAACCAAAGAAGGAACAGGGGGGACAAGGGACAAG GAAAGGACGGCCACCCGGAAGGGGGGAAGAGAAACAAAAAGA GAAACAGGGGACCAAGCCCAGGAAAGGAAGAGGGGAAAGGAA $A \subset A A G A G A A A A A G A A A G G A A A G A A G G G G A G A A G A G A G G G G A A$ AGCAGGGAGAAGAGAAAAGGCAGAGGAAAAGGAGGGGGAAAA CAAAGGGGAAAGGGAAGGGGGGCCTAAAGGAAACCCAAGAAA A A C A A G G A A C A A G G G G G G A A G G A A $\mathcal{A} G A G G A G G G G G G A G A A G G$ GGACCCAAAAAAGGGGCCGGGACCGGAACCAAGGAAAGAGAA A G GAGGGGGGGGGAGGAGGAAAGGCAGGAGCCCACAAAAAAA A A G G G G A A C C A A A A A A C C G GAAA A A CA GAAGGGGGGGGAC GA AAAAGAGAAAGGGGAGGGGGAACCGGAACCAAGGAAAAGAAG A G G G A A A A A G T T G A G G G G G G G A A A A GAC G G C C G G A G G G A G A G GAGGGAAGACAGAGCCCAGGTTAGGGGGAGGGGACAGAGGAG A A A A A A G G A A A C G A GAAAGGGGCCGGAACCCAAA GGAGAGAA GAGGAAAAAGAGGGAAAAAAAAGGAGAGGGGGGGAAGGGGTA AAAAGGAAGACCCGAGAGAAGGGAGGAAGAGGGGAAGAAAAA AA $A G C C G G G G C C G G G G A A T A A A A A G G G G G G G G G G A G G A A A G A$
 A A G GAGGAGGCCAAAAGGAAGAGGGAAGAGCAGGGAAGAGAA GACAAGGAGGAGGAAACCAGTTAGACAAGGGGAAGGAAAAGA C C G A A A A A A A A A A A A GCCGGAAAGAAGGGGGGAAAACAA AAA G GAAAAGAAGGGGGGGAAGGAAAAGGGGAAGGAGGGGGCCGG AAGGCCGGAGAAGAAGAGCAAAAGGAGAGGGAACAAAAAACC G GAGGGAAGGAAGACCCAAGGAGAGGAAAAGGATAAGAGCAT A A A GAAAAAAAACCCCGGAGAAAGCAAGATAAAAAACCGGAA AAGAAAGGCCAGAAAACCAACCGACCAGAGGGCAGAGGGGAA GAGAGGGGGGAAGAAAGGAAGGAGAAGGAACCAAAGGACAAG

GCAGGAAGGGAGGGAAGGAGCCTAGGAAAGGGCCACGAAGAA A A G G G GCCAAAACCGGCCGGGGAAGGAAAACCAAGGGGGGAC G GAGCAAGGAGGAAGGAGAAAAAAGGAAGAAGGAAGGGAGAA C CAACCAGGGGGCCTTGGAAAACCCCCCGACCGGAAGAAAGG AA G GAGCAAAAAGGAAAGAAACAAGGGGGGATGGGAGGGGAG G G G A C A G G A A A A G G G G G G C C C C G A A G CA $A$ A $\mathcal{A} G G G A A G A G G G G$ A G G G A A A A A A G G C C A G G G G G T A A A A A GA GAGGGC GAAC GA G A AAACAAGGGAGGGAACAAGGGGGGAGCCAGAACAGAGAAACC GACACCAAAGGCAACCAAGGGGAAAAGAGGGAGGAGAGAGCG GACCGGAGGACAGACAGGGAGGACGCCAAGGAAAAAAAGGCA $C \subset C C G G A A A A G A A C G G C G A A G G C A G G C C A A G G G A A G A A A G A A$ C C G A A G G G A A A GAA $A \operatorname{GCA} G G G G A A A A A G A A G A A G G G G A C C A C$ GACGAAGAGGCCGGAAGAGGAGAGAGAGAAGGCAGGAGAGAG $G G A A G G A A A A A A G G A A G G G G G G G G A A G A G G G G G G G G A A B G G A$ $C \subset G G C C A G C A G G A A G A A A G G G G G G G G G A A G A A A G G A G G A G A A$ G GAACAAGAAGGGGAGAGAGGAAGAAGGTTGGAGCCGGAGAA
 A A G G G A G A A A A A A A A A A A G GAAA A G GAAGAGGAAAAAA G GAA $G G A A G G A G A C A A G G A C A A A A G G G G G G A A A G G G C C G G A G A G A C$ AA G GAA $A \operatorname{GCCA} A A A A A A C C A A A A G A A A G A A A C C G G G G A A G G G G$ A GAAAGAGAGGGGAGGACAACCAGAGAAGGAGGGAAGAGAAA ACGGGGAAGAAGGAAAGGCCGGAGAAAGGGCAAGACAAAGAA AACCGGAACCAAGGAAAACCCACCGGAAAAGGAAAAGCACAA $G G A G A A A A A A A A A G A G G G A A G G G A C C G A G A G G C C G G A A A G A G$ A A G G A C A A G G A G G G G A A G A A G G A G A A A G GAA A G A A G G GAAA A G G G G G G A G G A G G A G A G G G G G A G G G C A G G G A A A G G A G G A A A G G GAACGGGGGAAAGGCCAAAGCAAGCAGAGGGGAGCCAGAGGG
 G G A G A G A A A G G GAA $A \operatorname{G} \operatorname{A} A A G G A A A A G G G G A A A A A A G G A A C C C C$ G G G G G G G G G G A A A A G G G G A A G G G G G G G GAA A C C G G C C C C A A G G A A C C C C A A A A G G G G A A G GAAGGCCAAGGCCGGGGAAGGAAAA A A G G G GCCGGAAGGCAGACCAGGAGGCCGGAAGGAAGGAAGA
 AA G G G G G GCCAAGACCAGAGAGGAAAAACCAAAGAGGGGGGA G G G G A A A A C C A G C C G G A G G A A G G G G G G G G G A G C C G G G G A G C A $G G A A C A G G G A A A G G G G G G G G G G A A G A A G A C A G G A A A A G A C A A$ G GCC $C$ G $A \operatorname{A} G \operatorname{GG} G A C A G G A G A G G G G G G G G G A G G G A A G A G G G G G$ G G G G G G GAGACAAGACGAGGAAAAGGACAAGAAAAAGGAGAA A G A A G G G G G G G G G G G G A A A A A A A A G GAAAAAAAAAAAAA A A $A$ GAA A A A G G G G G G G G G A A G A A A G A A A A G G G G A A A A C C G G G A A G GGAACCGGAAAGCCAAAAGGGGACGGCCGGGGGGAACAAGAC A G GAAAGGAACCAGGGAGGGAAAAAAGGCAAGGAAAGBAACA AAAAGGAAAAGGAGAAAACCGAAAGGGGAAAAAAGGCCAAAA A A GAGGGGAAAAGAGGGGAAAAAGGGAGAAAAAAAAAAGGGG GAAAAAAGGGGGACATGGAATTCCAAAAGGGGAAGGCCAACC A A A A $\mathcal{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A G G A A G G G G G G A A G G G G G G G A A A A A$ A A G G G G A A A A G G G G G G A A G G G G A A A A C C A A G G G G A A G G G G A A G G G G G GAAAAGGGAAAACACAGGAAAGGGGAGGGAGAACAAA G G G GAGAGAGACCCGGGAAGGGCAGAGAAGGAGGCCGAGAAC C C C C C CAA G GAA G GAAAGCCCCAGAAAAAAAAAAGGGGAAGAG A A G G G G G G A A C C A A G GCCAAGGGGGAGAGAGGAA GAGAAAGG G GAGAAAAGGGATTAGACGAGAGGCAAGAACAAAGGAGCCGG A A A G C A A A A G A G A A G GCCCCGGACAGGGGGAGAGGAAACCCC G G A T T T G GAA $A \operatorname{AGGGGGAGGCCAGGGGGGGCAAAAAAGCAAA}$ C C G GAA $A$ AACAAGGAGAAGGAAAAAACCGGAACCCAAAAAAA AACCGGAAAGAGAGAAAGAGGGAAGAGGGGCACCAAGAGAGA GAGGAAAACGCAGAAAGGGGAAGGAGGGAAAACCGBAAAAAG A A A A A A A A C C G A G G GGACCCAAGAAGAGGACAAAA GA GAA G G G G G G GAGAAGTAGGGGAGGGAAAAAAGGAAGGGAAGGAGAAA

G G G G G G A G G G G GACAAAGGAAGGGGGTAGAAAAACCGGAGAA G GAAAGAACCACGGAAAGGAAAGGGGGGAGAGGGGAAAGAGG $G G A A G A A G G G A A C C G G A G G G A A C A A G A A G G A A A G G A C A A A G G$ A G G G G G G G G GAAAAAAGGAAAACCAAAAGGAAGGGGAAAAGG G GAAAACCGGGGAAGGGGAAGGGGAAAAAAGGAAGGGGGAGG
 $A G C C G G A A G G G G A G G A A G A T A A G C G G G G C C A A A A A C A G G G C A$ AAGAGAAAGGAAGGGGGGAAAAGGGGGGGGCCAGCCGAAAGG G GAGAACAGAGGCAAAAAAGAACCAAAAGGGGGGAAAAAAAG G GAAGGAGAGCCGAGAGAAGGACAGGAGGGGAGGAAGGGAGG A G G GAGGGAACAGAGGAAAGAGGGAGAGAAGGAAGAACAAGG GAACAGAAAGCCACGGAAAAAACCAAAAAAGGGGGGG
G G GCCAAGGGGGGGGGAGGCCCAGAAAGAACGGAACAGGAC G GAGAAAAGACCGGGGAAGGCCGGAAAAGGAAGGAAAAGAAC AAAGAGGGAGGGGGAGGGGGCAAGAAAGAAAGAGAGAAGAAA A A A G G G G A G G GA A A A G T T GAAAGGGGCCGGAGAGGAAAGAAA G GAA A GAGGAAACCAAGAGGGGGAGACACGGAAACCGGAAAA G GAAGGGGCCGGAAAAAAAAACGGCCCCCAGAGAGGGAAAAA A G G GAACAGGAAGAAGGGAAGAGAAGGAGGGGCCAGAACAGAG A A A G G G A A A A G A A G G G A A A A T T G G A G G G A G G G G A A A G G A A A A G GAAAAAAGGAACCAAAGAAGGGGCCGGGGAACAAAGAAAGG G GAAAAAGCAAGGGGGGGAAGGAAAACAGACAACAAGGAGCA AACAGCGGAAGGAGAAAAGGGAGGGGACAAGGAGAGAGAAGA

 GAAAGGGACCGAAGGGGGGGTTAAGGAAAAAAGGAAAAGAAA G GAA $A \operatorname{GAA} A A A A A A A A A A A A G G G G G G G G A A A A G G A A C A A A A A$ G GCCGGAAGGGGAGGGCAGAGAAGAACAAAAAAACCGGGGGG $A C C C A G A G A G G G A C A G G G G A A G G A A A A G A A A G G A A A A A A C A G$ C C G G G A A C G G G G G G A A A A A G G G C A A A G GAAA A A G G G G A T T G A AAAAGGCCGAAGGGGCAGAGGGCCGGCAGGAAGAAAGACAAG A A A A G GA $A G G G A G A A G A G G G G G G A C C G G G A G G G G G G G G A G A A$ G GAGAAAAGAAAGGAAGCGAAGAAAAAAGGAGGGGAAAAAGA G G G A A A A G G GCCA G GAATAAGAAAAAGAAGGACCGGCAGA GA C C A A A A G G A G G GAAAAAGGGAAAAGACAAGGGAGGGGAC GCGG G G A A C C G G G G A C A A A A G G A A C C G C CAA G CA G G A C A C G G G G A G A GAAAGACAAAGAAGAGGCACAGGAAGGAAGGGGGAGAGGCC GAGGGGACAAGACCGGGGAAGGGAGAAGCCGGAGAGACAAGA C C G G A A A A G G A GAA $A \operatorname{A} A G G C C G G A A A A C C A A A G G G A G G G A G A A$ G GCCAA GACCCCAAACGGGAAAAAAGGGGGGAGGGAAAGGGG GAAACAGAGGAGGGGAAGCCGAAAAAGGGGAAAAGGGGAAAG
 G GAGAGGCGGGGAAGAGGGGGATTAGAAGGGGAGGGCACAGG G GAA A GAAGGGGAACCAGGGGGAGGGAAAACCCAGGAAAABA $G G A A A A G G G G G G A A G G G A A A G A G G G A G A A A A G A G G G A A A G T T$ A A G GCCAGAAGGGGAGAAGAAAGGCCGGGGCCGAGAGAGGAA A A G G G G G A A A A GAA A A A G G G G A GAA A A A G GAA G G GA GAAAA A A ACCCCGAGGGGGGAAAACCCCAAAGCCGAGGTTAAAAAAAA AACCAGAAGGAACAAACAAGAAAAGGAAAGGGAAGGGGAAGA GGCCAGGGCCAAAAAAAAAAGGAGCCAGGAAAAAAGCAGAGG A G G G A GAGGGAAGCGAGAAAGGCAGGAGGAGAAAGGGAAAAA
 GAAAGGGAAAGAGGAAAGACCAGAGGGAGGAGAAGGGAAAAC AGCAGACCAGAAAGAAGACGGGCCAGGGGAGGAAAAGGGGAG G G G GCCGGAGAGGAAGAAGGCCAGAGAAAAAAGAAAGGGGGG G GAA $A \operatorname{GA} A A C A A G A G G A A G A G G G G G G C C A A C G A G A G G G G G G G$ A A A GAGCAAAGAAGGAGGCCAAAGGGAGGAAGAAAAAAAAAA G G G GAAAACCCCAAGAAAAGAGAACCGAACAGGGAAAGAAGA A A G G GAGGAACAAAGAACGACCGGGGAAAAAAAAGGAGGGTA

A A A G A A A A A GCAGGAGGGGGGGAGCAAGAATTAAAAGAACAG A G G G G A G G A A G A A G G G A C G A A A G G A A G G G G G G G G G G A C A G A C GAGGAAGGAAAGAAGGGAAAGGGGGGCAGAGACAGGGAAAAA A GACGAGGAGGGAAGGAGAAGGGGACGGGGACGAGAAAGGGA $G G A A G A A C G A A G G G G G C C G G A G A G A A A A A A G G$
 AAGGAAGCCCCCAAGGAGAGAAGGAAGGGAAGCCAAAAGGAA $C C G A G A A G G G G A G A G G A A C C A G A G G A G G C C A G A G C C G G A G A A$ A GCCAAGGAAAGAGAAAAGGAGAGAGACGGGGAAAGAAGGAA AAAAGAAAGGAAAGCCGGGGCCGGAGGAGAAAAAGGAAAAAA ACGAACGGACAAGGGAAAGGAGGAGAAGAGAGACGGCCAGAA G G G G G A G G G G A G G G G G G G G G A A G A A GAGGCAATTGAAA G G A A A G GA GAG GAACCGGGAAAGAGGAACCGGAGGGCAGGCAAGAA A A G A G A A A A G A GAAAG $A \operatorname{A} \operatorname{A} A A G G G A G G C A A G C C A A G G G G A G A A$ A A A A A GAACCAAAAAAGAGAAGGAGGGGCCGAGCAGAAAAGG AA G GAACCAGAACCCCGGGGAAGGAGAAAGCAAAAGTTAAAG A A G G G G G A A G A A C C A A G G A A A A A ACCTTCCAGGGCCGGGGCA AAAGCAAGAAAGGAAACAGAAAAAAAAGAGCAAACCGBAAGAA $G G A A G G A A A G G A G G G G A A A A G G A G A C G G G G G G A A A A C C A G A A$ GAGAACAACCGGCCGGCAGGGAGACCAGGGAAAABGGGGGGG A GGAAAAAGAAACCGAGAGGAAAAAACCAGAAGGAAAAAAGG A G G G G A A A G G G A A A G G G G G GAACCAAGGAAAAAA G G A G G C CAA GAGGGGGGAACCGCGGGGGGGGGGGAGGAGAGCAGAAAAAAA A A GAGAAAGGAAGGGGCCAAGGAAAAGGCCGGATGGGAAAAG A G GAGACCAAAAAAAAAAGAAGGAAATAAGCCAAAAGGAGGG GCGAAAGGAAAACCCCGAGGAAGGAACCGGGGGAGGAGCCGG AAAAGGCCGGAAAAAAGGGAAAAGGAACGGGGAAAAAAAAAA G G A A G G A A A A G G G G C C A A A A G G G G A A G GAAAA A GAGAAAAC C A A G G A A A A GAGGGGCCAAGAGGCAACGAGATAACAAGACGAA $G C A A G A G A G G G G A A G G G G G G A A G G G G A A G G A A G G A A A A G G C C$ G G G G A A G G T T A A A A G G G G G G A A A A C C A A A A A A A A C C A A G G G G AAGGAAAAGGAACCGGAAAAGGGGCCGGAAAACCAAGGAAGG
 G G G G G G G G A A G G G G A A C C G GAACCCCGGGGAAAA G GAA G G C C A ACCGCCACAAAAAAGAAGGGAGGAAACAAAAACGGGGGGGG A A A A A A G G A A A A C C G G G G G G G A G G G A A A G GAAA A G G A G G G A A A G G GAAAAAGCCAAAAAAGGAAAGGGGGAAAAGGCCAAAGGG A A GAAACCGGAAGGGGAAAAACAGGGGGCCAAAAGGCAAAAAA G G G G G A G G G G A A A G G G A A G G G G G G CAA TA GAAAAA G GA GA CA A A A A G GAAAAAAAAAAGGGGAAAAAAAAAGAAAGAGAGAA GA AAAAGAAGACAAAGGGGGAAGAGACCAGGGAAAAACAGGGGG A A G G A GCCAACCGAGGGGCCAGGGAAGGAAGGACAGCAAAAA AAACACGGAAGAAAGGAGAAGGAAAAGGAAGGGGGGAAAAGG A A A G G G A T GAGGAGGGAAGAGGAAGGGAAAGGAAGACAAAGB
 $A G G G G G A A G G A A G A A A G G A A A A G A G G A A A A G G G G A G G A G G A G$ A G G A G G A G A G G G G G A A C C G G G GAGAAAGGAAAAA A A A A A C CA C G GAAAGGGGGCCGGGGCCGGAAAAAAGGAAGGGGTAGGGGCA AGCCCAAGAAGGAACCAAGGGGAGGGCCAAGGGGAGGAAAAA A A A C A A G G G GAGGAGAAGAAGACCAAGGGGCCCCAAAAAAGA A A A A A GATAAGAAGAGCCGGGGAACCAAAAGAGGCCAAAAAA
 A G G G G G G G A G G A A A A G G G A A A A A A G GACGACCAAACAACAAA AAGAAAAAGGCCGAGAGAAGAGGAGGAACAAAACAAAAGGAA G GAAAAGGGGGGAGCCGAGGGGAGGGAAGGAAGGCCCCAGAA G G A A A A G G A A C C G G A A A G A A A C G G A G A G A A GAC C A G G G A G G G G G A A A ACCAAAAGAAAAGAAAAAAGAGACAAGGAGAACBGGA A GAGAAGACAGAACGACCGGAGGGCCCCAAGAGGACAAAAGB GAGGAAAAAACCGGCCGGAAAAAACACAGAGGAACAAACAGG

AAGGAAGGAAAAGGGAAAACGAAGGGAAGGAAAAGGAACCGG GGAACAAAAACCAAGGAACAGAGACCACGGCCAAAGAGAGAA G G A A A A A A A A A A A GAAA AGGCAGGAAAGGAAAGAGGGAGGGG AAAGGGCCAACCACGGAAGGAGGAAAGGGAGGGGGAAGAAGA
 G G A A C C G G A A A A C A G A G G A G G G G A A G G G A G G G C C G G G G C C G G A A G G T A G G G GCAAAAGAAGGGGCCAAGGAAGAGABCCCGGGG $A C G A A G G G G G G A A A A A A A A C A G A G G A A C A G G G A G G G G G G G G G$ GAAAGAGGAAGGGAGGCGTTGGTTAAAGAAAAAAAACACCAG GAAGAGGAGAGGAAAAAAGGGGGGAACCAAGGAAAAAAAAGG A A A A C CAA A G G GAAGGAAAACCGGAAGGGGCCGGAAAACAAA AAAAGGGGTTAAAAGGAAAAGGGGGGGGGGAAAAAAGAAAGG A A A A A A G GCCAACCAAAAAAAAGGGGCCGGGGAAAAGGAACC G GAAAAAAGGAAAAAAAAAAAAAAAAGGAAAAGGAAGGACAA G GAAAAGGGGGGAAGGAAAAGGGGGGAACCAAGGGGAAAAAA $C \subset A A A A G G A A G G G G A A A A A A C C A A A A A A G G A A A A C C G G G G G G$ A A G GAA A G G G G GAAAAAAAAAAACCAAAAGGGGAAGGGGAGAA
 $G G A A G G G G A A A A A A A A G G A A A A G G C C A A A A A A G G G B A A G G G G$ A A A A $\mathcal{A} G G G A A G G A A G G G G C C G G G G G G A A A A C C A A C C A A G G G G$ $G G T T G G G G A A G G G G A A G G A A A A A A G G G G G G A A G G G G G G G G G G$
 A A G G A A A A A A A A G G G G A A A A G G A A A A A A C C GGGGAA G GAAAA G G G G G G A A G G G GCC G G G G A A G G A A A A G G A A C C A A C C A A G G G G A G G A $\mathcal{A} G G \operatorname{G} A \mathrm{~A} A \mathrm{~A} A A A A A G G G G A A G G G G G G G G A A A A A A G G G G C C$ G G G GCCAGAGAAGAGAAGGGAAGGGAAGGGGAAGAAGAAGAG A GAGGGGGGAAAAAGGCCAAACAGGGAAAAGAAGAGGGACAA G G G A G G G G G G A A G A G G A A A A G G G A A A A A A GAAA A GA G G G G A A GAGGGGGGAAGGAGAAGAGAAAAAGGAAGGGGGGGGAAGAAA A GAGAAAGAGGAGGGAACCAGGGAGGAAAAAGGGAAGGAGAT GAAGACGGGGTTGGGGCCGGAAAAGGAAGGAAGGAAGGGGGG G G G G G GAGAGGGAAGACAGGACAAAAGAGGAAAAAGAAAAAG T TAAAACCGGGGCAATAGAAAGACAAGGGACGGGCCAGAAGG G GAGAGAAAAAAGGAACCGGAAAAGGGAGAGAGAGGAAAACC AAACGGGAGAGAAGGAAAAGAAGGAAGAACAGTTGGAGAGAA AAAAGGAAGGAGGGGAGAAAAAAAGAGGAAGGAAAAGAGAAC AACCAGACAAGGGAGGGAAAGGAAGGACAGACAGCAGAAAGA AA $A \operatorname{GGGA} A A G G G A A G G T T C C A A G G T T A A A A C C G G G G A A G G G G$ A A A A G GAAAAGGGAGGACACAAAGGGCCAAGGTTAAGGAGAA A A A C G G G G G G G G G G A G G G G G C A C A G GAGGGAGAGCCAAA A A A GGGGAAAAAAGGCAAGACAAGGAAAAGGGGGGAAAAAAGGCC CAACAAGGAGGGACCCGGAGGACACACAGAAGAGGAGAAGAA AACCAAGGGGAGGAGGATACGAGAGGACCCCAAGCAGGCCGG A G G GACCCAACCGGAAGGAAGGAAGGAAAAGGAA GGGGGGGG
 A GAA A G G G A A A A A A GAA A GAACAGAGGGGGGGGAGAAAAACC $G G C C A A A G C A A G G G A G A G C C G G G C A T A A A G G G C A A G A A A A G A$ A GAAGGAAAAAAAAGAGGAGAAGGAAGGAAAGACAAACAAAA ACCAGGAGAGGGCCGGGGGGAACCGGGGGGGGGGAGAGAGAA G GAGGAGGACAGAAAAGGAAGAAGAAAGACGAAAGGAAAACC
 AAACGAAGGAAAGGAAGGGGGGAAGGCCAGAGAAGAACAAAG A A G G G G G G A G C A G A G G G A A GAC G GAC G GAC G GA G G A G G G G A A AAGGAAGGGGCCGGCCGGCCAAAAGAGACCGAGACAGGGACC $A C G G A A G G C A G G C A G G G G A A A C A G G G A G C A A C G G G G A G G G G G$ A G GAA A A GA $A$ A $A \operatorname{GGGAACCGGGGGAAAGGAAAAAAGGGCAAAA}$
 A A C C A A A A A G T A CAAA $A \operatorname{GGGAACACCCCCCAAAAGACCGGGG}$ AAACAAGGGGGAAAAAGGAGAGCCAAAACCGGGGGGGGAACC
$C C G G A A G A G A C C A A A A G G G A G A A A A A G G A A C C G A A A G A A G A A$ A A G A A G G A GAA $A$ A A G GAA $A \operatorname{G} G A G G G A G G A A C A G A A C C G A G G A G$ GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGAAAAG A GAACCGGGGCAAGGGGGAGAGAAGGAAGGGGGGAGGGAAGA $G G C C C C G A G A G A G A A A A A G G A A C C G G G G A A C C C C A A G$
GTTGGAAAAAAGGAAAAAAAAAAAAAAGGCGGAAGAAAAGG ACAAAGGACGCCGGAGAGAAAGCGGGGAAGACCAACCBAGAA $A G A C G G G G A G A G G A G G A A A G G G C C A G A A G G A G G G G A G A G G A G$ A GAGAA GAGGCCGGGACAGAAAGGACAAAAAGAAGACCGGGG G G G G G G G G G GAGAGAAGGGGCCGGCCGGCACCGGGGGGCCAA A GAGGGAAGAGGAAGAGAGGAAGGAGAAGAGACAGGACAAAG C C A G G A G G A A A GA $\operatorname{A} A A A G G G G A A C A G G G G G G G G G G G G G G G G G G$ G GCCAAAAGGAACCTTAAAATTAGGAATAAGAGGGAAAAAGBG A A G G G GA $\operatorname{G} G A G G A G G A G G A G G A G G A A C A A G A G G G C C G G A G G G$ GAAAGGGGGGCGCCCCGGAAGGAAAAGGAAGGGGGACAGAAG AA $A \operatorname{GGGAA} C C G A A G A A G G A C A G G G A A G G G G A A C A A G G C A A A G$ A A G A A A A A GAGGGGGGGAAAGGAAGAAAAGGGGA GAAACCAG A GCCGGGGGGAAGAAAGAGGAGAAAACAGGGGAGAGGAGAAG AAAAGAGGGGGGAGCCGGCCAAGGCCGGAGCCGGAGAAGAAA G G A A G G G A G G G G A G C C G A G G G G A G G G A A G G A A A G G A A A A G G A A AGGCCTTCCCCAAAAGGAAGGAGGAACAAAGGGATAAGGGG GAA A A G GAGAAAGGGAGAAAGGGAGGAAAAGGGGAAAAGGAA A A GAGAGGCAGGGAAGAGCCGGGAACAAAGAAAAAAAACAAA A A C C C C A A GAAA A G C CA A A G G G G A G G G G G G G G A G G G G G A G A A G G G G G G G G G G C C G G A G G G G GAAAAACGACAGAAAAGAGGAA GA GAAGAAGAGAGGGGAAAAAAGGGACAAAGAAAAGGGAAAGGG AAGGAAGGAAGAAAGAAGCGCCAAAGAAGAGGGACAAAAGGG A A G G G GAA A A G G C C A A A A G G G G A A G GAACAAGGGGAAACC G G
 AAAAAAGGCCAAGACCAAGGAAAAAAAAAGAAACCCGAAAAG A A A G G G A G A A G G G G A A G G A A G G A A A A G G A A G G A A G G A A A A $G$ G AAAGGACCGGAGGAAGGGGGAGAGAGCGGAGGACAGGGAAGA
 CAAACCAAAAGGAAAAAAACAAGGGAGGAGAGGGGGGGGGGG A A A A G G A A G G A A G G A G A A $\mathcal{A} G G G G G G G A A A G A A A G G A A G A A A A$


 AAGGGGAACCTTGGCCCCGGAACCAAAAAAAAAGGAGATAAG GAA $A \operatorname{G} A A A \operatorname{A} G A A G G A A A A G G G G G G G A A A G G G G C C G G C G G G G G$ AAAACCAGAGGGAGGGAAGGAAAGAGACGGAAGAGACAGGGG G GCGGGAGAGAGGGGGTTGGGGGAGGAGAAAGGAGAACAAAA AAGAAGAAAGAAAAGAGAGGCCGCCCGGAAGGAACAAGGAAG CAGGGGGAAAAAGGAACCGGAAAGCCACGAAAAGAAAAAAAA G G A A A A CACAAGGAGGCAGGGAAGAAGATAAAAAAAAGACAA C C G GAGCCGAACGAAAGGACAAGGAGCCAGGGAGGAAAGGCA A A A G G A A G A A G G A C G A G A G A A G A GCACCCCAGACCCCC G GAA A G G A A A A A G G T T G A G G G GCCGGCAAAGGAAAA GAAAAGAGGA CAGAAAAAGGAAAGAGATAGGAAAAGCCAAAGAAAAGGGGAA GAGGAAGGAAGAAAAGAAAAAGGGACAGGGAAAAAAGGAGAA CAGAAAGAAGGGAGGAGACCACAGCAGGGGAAGACAAAAGAG GAAGAAAAGAAACAGGAAAAAAAAAGGAGAAAAAGAGAAAAA A A G G G G A A G G A A A A A $\mathcal{A} G G G G G A A G A A G G A C G A G G G G G G A A G G$ ACAGAAGGAAACCCGGAGAAGGAAAACAAAGGAACCGGGGGG G GAGTTGGACGGAAGAGGGAGGGAGAAAGGAGAAAAAAAAAA A A G GCCCCGGAAGGGGCCGGGAAGACGGAAAAGGGGCAAAAG AAGGCCAAGGAAAGAGCAAAAGGAAAGAAAGGCAGGGAAAAG AACCGGGGGGAGACAAGGAGGAAAAGACGAGGACAAAABAAA $G G A A C C T A G G G G C C A G G G G G G G A A G G G G A G A A G G A A A A G G G G$
$C C G G A A G G A G G G G A A A G G T A A G G A A A A A A G A G A A A A A G G G A G$ A A A A A A G A A G A A G G A G G G A G A A A A A A G G A A G G G G G G A A G G A G G GAGGGGGAAGGAAGGACGGAGAAGGGAAAAAGGGGCAGACC A GACAGAAAAAAAAGGAAAAGGAGATAAAGACGAGGGGAAAA G GACAAGGGAACGAGGCAGAAGAGGGCCGAGGAATTCCGAAA G G G G A A C C G G G G A C A A A G C A A A G G A A G G A A A A A A A A G G G G T T G G G GCCAGAGCAGGCAACGGAAAACCGAGGAGGAGGAAAAGG A GAAATAGAAGGGACCAGAGAAGGAGAGCAAAGGAGGGAACC AAAGCGGGAGAAAAAAAAAGGACCAAAAGGGAGGGGAAGGCC AAACGAGGGGAGGGGGGGCAAGGGGGGAAGGAGGAGGGAGAA GAACGAGGCCAAACAGGAGGAAGAGGAAGACCGGAAGAAGAA
 A ACGAGAAGGGGAAAGAAGGAGAAGGCCAAAAAGAGAAAAAC G G G G G A G A A A C A C C T A C C G G G GAA A GTTAACCCCAAA GAAAC A A G A G G A G G G G G G A GAA A TACAGAAGAAGGGGAGGAAAGAAA G GAAGAGACCAGCACAGGGAAGAAAGAAGGAGGGAAAAGGGG G G G G G GAA $A \operatorname{GAAA} A G A A G C A A A A A A A A G G G A G A A G A G A A A A G$
 $A G A A A A G A A G A G G G A G A G G G G A A A A A G G G A A G G G A G G G A G A A$ G G A A A T G G A G G GAA $A \operatorname{GAA} A \mathrm{~A} A A A G A G A A G A C A A A A G G G G C C A A$ AAGGAACCAACCGGTTAAAAAAATTACCAGAAAAGGGGAAGG A G GAAAAAGGAACCGGAAACGGGGCCAGTACCGGAACAGGAA G GAAGAAAAAGGAAACGAAAAACCGAGAAAACGAA GAGAGGG A A A A C C G G A A A A A A A G G GCAAA $\mathcal{A} A A A A G A A G A G G G G G A G C C C B$ G G G G G G G A A A G G GAC CAAAGGGGGGGGAGAAAAGAAGGAAA G G A A G A G G G G G G G G G A G G G A G G A A C C GAGGGGCACAA GTXACA G $C \subset A A C C G A G A A G G A A A A G A A A A A G G G A A A A A A A A A C G G G G G G$ G GAAAGAGGGAGAAAAGGAATAGAGGCCAAGGAAAAAATTAA CCAGCCGGGGAAAAAAGGAAGGAAAAGGAAAAGGAAGA GAAA AGCCAAGGGAGGGGAGCCCAAGAAGACCAAGGGGAAACAGAG A G A A C C G G G A G G A A A A A $A \operatorname{GGGGGAAAAAGGGAGGGGAAGGGGGG}$ G G G G G G G G GA G GAAAAA A A A G GAGCAAGACAAGGGGCCGGTT G G G G G G A A G G G GAACCAACCAAAAAAAAAACCCCAAAATATT GAGAAAAGCAGACAAGGAAGAGAGCACAGAGAGAAGAGGGGG A GAAAAGGGAAGGAAAAACCGACAGGAAGGAAAGACGGAAAA G GAGGAAACAGGAAAACCGACGGGAGAAAGAAGGGGAGAGAA G GAGCCAAGGTTGGAAAAAAAACCAGAGAGGGAAAGGAGACA AACAAAGGAGGGAGAAAAGGAAAACCAAACGGATAGGAAGCC G G G A A A A A G G A A C C A A GAGGGGGGAAAAAAAGAGAAGGAGAA A G G G A G G A A C A GA GAAAGGAGGCCACACAAAATTGGAAGGAA A A G G A A A A GGCAAAAAAACCGGGGGGAGAGAGCCGGGGAGAA A A C C C A G G A A G GA G A A A A A A C C C A G G GAGAGGA GA G GAC C G A GAGGAGACAAAAAGCACCAACACCAGGGACAGCCCAAACCAG $A G C C G G A G G G G A A A C C G G A A C C G G G G G G A G G G G G G A G G A A A G$ C G G A A G G G GAGGAGCCAGGAAACCAGTAGAACGGCCGGAAGA G G A A G A A A G G G G G G G G G G A C A G G G C A GAAAAAA $A$ A A A A A A G G G G C CAA $A \operatorname{GAAAAAAAAAGGGGGAAGGGGGAAAGCCGGGGGGAAAA}$ A A A GCCAAAAGAGGCCGAGGGCAGGACGAGAGAGGGAAAGGA G GAGGGAGCCGGGGAAAAAAAAGAAACCAAAAGGGGCCGGAG A A G GAACAATGGAAAACCGGGAGATAAAAAAGAAAAGAAAAA AAGGAAAACAAACAAAAGAAGGAAAAGGAACCCCAAGGAAAA $G G C C A A G G G A C A A C A G A A G G C C G G C A A A G A G G C C A A A A G G A A$ A A A A A A A A A ACCGGCCGACAAGCCGGAAAAGGAAGGGGGGAA G G G GAA A GCAAAGGAGGAAAAAAAAAAACCAAGGAAGGCCGG G GACAGGGCGAGAGAAGGAAAAGGAAAAGGGGGGACCACAAA A A A A G A GAAGGGAGCCGGAAAAAAGGAAGGGGGATTAAAAAA C C C C G GCCGGAAAAAACCAAGAGGAAAAAGGAAAAAAAAAAA G G G G T T A A GAAAA $A \operatorname{A} A A G A G G A G G G A A A G G G C A G G C C G G A A A A$ $G G G G G G G G G A C C G G A A A C A G C C G G A A A G A A G G C C G G A A G A A A$

ACGGGAGAGGAAGGAGGGGAAAAGACGGAGAAGGAAAAAAGA
 A A GAAAAAAAGGGGGGCCCCGGTTGGAAAAAAAAGGGGCCAA G GAA A A C GAGGGGCAGGAAAAGGGGGAAAAAGGAAAGAAATT A A GAAGAAGGGGAAAGAAAAGGAGAAGGAATTGGGAA
AAAGGGAGACCGGAGAAAAAGAGGGGGAACCGGAGAACAAA A GCCAAAGCCGACCAAGGGGAAGGGGAACACAGAGGGGAAGG G G GAAGGGAAACAGAGGAAAGGAAAGAAAAAAGGAAGGAAA G G G A C A A A G G G A A A A G G A C G A G G C C A A A A G G A C G G A A A A T T G G G G G GAA A GAAAAAAACGACACCAAGGGGGACCAGAACCAAT T AAAACCGGAAAGAAGAGGAACAGAGAAAAGAGAGGGAGCCAG $G G A A A A G G A A A A G G A A G G G A A A A A G G G G A G G G G A G A G A G G G A$ $A G C C A A G G G G A A A A C C C C G G G G A C G G G A A A A A G G G G G G A G A A$
 A G G G G GAA $A \operatorname{GA} A A G A A A A G G A C A A G G G G G G G G A A A A G A A G G A$ G GAGGCGGCCAAAGGGAGAGACAAAGGGAGAAGAGGGGGGGG AA A GAAAAAGGGCCAAGGAGAAAAGAACAGAAAAGGGAAAGG A A G G G GAAA A G G C C G G G GCCGGAAGGGAAAAAAAA AAAA A A A G G G G A G G A A A A G G G G G CA $A \operatorname{GGGAAGGGGAAGGGGAGAAGACCCC}$
 AGGGAAGGACGGAAGGGGGAAGGGAAAAAGAGGAAAGGAGAC A G G A A G G G A A G A G A G G G A GAGAAGGGACAAAAAATTAGAGAA A A G G A A A G A A G G A G G A A A A $\mathcal{A} A A G G G G G G C G A G A C T T G A G G G G$ G G G G A G A A G G G A G A C C G GAA A GCCGGAACCAGGAGAGAAA GA AAGAGGCCGAGAACGAAAAAAAGGAAATCCAAGGAACBAAAC G G A G A G A A C C G G G G G G G GC C A A G G GAGGGGCA GAAA GAGGCC T TAAAAGGAAGGAGGGAGGGAGGGAAGGAACCAAGAAGAAGA

 G G G G A A G G G G G GAAAAACAAAGGGAAAGGAGAGCCACCCAGGG GAAGAGACAGCCAACCAAGAGAGGCCGGGGGGAGCACCAAGG $C \subset A A G G G C G A A A G G G A A A A G C C A A A A A G G A G A C C G G A G G G G A$ CAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} \operatorname{A} G A A A A A G C A A A G G G G A A G G G G G G G G A G G G$ GAAGGAGGCCGACCGGAGAGGGGGAACCAAAGAGGAGAGGCC G G G GCAA $\mathrm{G} A \mathrm{~A}$ A A A A A G GAGAAAAGAGGGAAAACCCCCCGGGA A A A A A A A G G G A A G A G G A G A A G G A A G GAGAGGAG GAACAAG GA C C A GAGGGGGGGAAAGGAAAAGGAGAGGAGCAGAGAGAAGAG
 GAGGGGAAAAAAGAGAACCCGAGGAGGGAGAGGGCCCAAGAC
 $A C G A G G G G G A A A G G C C A G G A G G A G G G C C G G G G A A G A A G A A G G$ GAGACCGGGGGGAAGAGAGGGGCCGAAAGGCCGGAAAAAGGG G GAAAAGGCCGGAGGGGAAGAGGGGGAGACAGAAGGGGAAGG A G G G A A G G G G A A G G A G G GCCGAAAAAGAAAAAGGAAAAACAA A A G GAA A G A A A G G G A A A CAAAGAAAAGGAAGGCCAAAACAAA A GAA A A A C G GAA $A \operatorname{AGGGGAGAGGAAGGAAAGCCGGGAGAAAAA}$ C C G GAGGGAGGAGAAAGGTTGGAAAAGGAAAAAGACAAAGAA AA $\operatorname{A} G \mathrm{G} G \mathrm{C} C A C \mathrm{C} G \mathrm{G}$ GAAAAAAAAAAGGGCAGGGACCAAAAAAAAG GAGGGGGGGGAAAAGAGGAAAAAGGGGGCAAAGGGGAGAAGA $G G A A G A A A A G G A A A G G G G A A A G A A A G G A A A A G C C G G G G A G A A$ A A G G A G G G G G A GCC G G A A A G G G G G A A G GCCAGATGGGACAAA AAAAAAGGAAAAGGGAAGAAGGAAGAAGAAAAAACAGAAAAG A G A G G G G G A A A A G A A A G A G G G G A A A G A G G G A G A G C C A G C C C C A A A A A A G GAGAAGGAAAAGGGGGAGAGAGAAAGGGGAACAAA AAAAAGGGGAGAGGCCAAAAGGAAAAAAAAAAAAAAAACAGG A A G G G A A G G G G G G G G G G G G G G A G G A G G G A A A A C C A A G G C C A A AACCAAGGAAGGAAAAGGGAAAAGAACCGAGGCCAAGAAAAA $C \subset A A A A A A A A A A G A G G A A G A G G G G A G A A G A G G G A A A G A A G G G$ GAAACCAAAAAAGGCCGGCCAGGAAGAAGGAGGAAAAAGAAA

G G G G G GAC GAGGAGAAGAAACCAAAAGGGGAGGAAAAAGGAC GAGAAAGAGAGAAGAAGGGGGGCCCCGGGAAAGGGGGAAACB A GAGACAGGAAAAAGGAGGGAAGGGACAGGAAGGAAGGAAAA A G G GCC CAA A G G G G GAGAGAGAAAAGCAAGGAAAGGGGGAAA G GAAGGAAAGCAGGAAACAAAAGGGACCAAGAAAAGAAAACA G G G G A A C A G A C C C C A G G A A G G G G G G A G A A ACCAAAAA A C C A A G G G G G G A C A A G GAAAAGAAGGAGGAAAGGGGAGGAAAAAA G G $A$ AAAAAGAGAAGGAAAAAGAGAAGGAGAGGGGGGGGAGGGGGG GATAGGGGAGGAAAACGAGGGGAACCAAAAAACCGGGGAABA A A A A A A A A G A A A A GAGGAGAAACGAGGAAAGCAAGAAAAGA G GAGAGGAGGAAGGAAAAGAAAGGCGAAGGGGAAGAGAAAGG A GAGATAGGAGAAAAGAAAAAGGGGGAATTAACCAACCACAC
 A A G G G A A G A G G A G G A A A A G G G G A A G G G G G G A A G G A A C C C C G G G GAAGGAAGGAAAAAAGGAAAACCAAAAGGCCCCCCAACCGG G GAAGGGGCCAAGGGGCCAACCGGGGCCAAAAAAGGAAGGAA $G G C C G G A A G G G G A A C C A A G G G G G G G G A A A A A A G G A A A A G G G G$ A A G G G G G G A A G G G G G G G G G G G G G G G G C C A A G G G G A A G G G G A A G G G GAAGGGGGGCCGGAAAAGGAACCAACAGGCACCGAAGGG A G G GCAGAGGGGCCAAAAAAAAGAAACCAAAACCAAAAAAAA GAGAAAGGGGGGGGGGAGGAGGGGAGGAGAGAGGCCAAAGAA
 GAAGAAGGGCGGAGGGAAGAAAAAAAAAAAAAGGAACAAGGG
 A A C C A A A A G G A A G C A G G GCCGGCCAAGGAGAAGGGGAA GA GA AAGGCCAACACCAGAAGGCGCAGGGGAAAACACCAAGGGGGG AAAATTGGAAGGAAGGGGGAAGAGAGGAGGGGAGACAAGAAG $G G C C A G G G G G A G A A G G A G A G A G A G A G G A A A G G A C G A G G A A C A$ $A G C A A G A G G G G A A G G A G G A A A G A A G G G G A G A A C C G G A A G G A A$
 GAAGGGAAGGAAAACCAAAAGGAAAAGGAAAAAAGBAACCTT A A T TGGAAGGGAGACAGGGAAAAAAAAGGGGGGGAGGGAAGA A A G G A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A C A G A G A A G A A G G G G C C A G A A C C G G G G T T$ A A G G G G A A A A C C A A A A C C G G G G G G A A A A A A G GAAA G GAGGCC A A A A A G A A A A A A A A GGCCCCAACCAAAAGGAAGGAAA GAGAA GACAA GAAGGAAAGCACAGGGGAATTGACCGAACGGGACCAB GAAAAGGGAGCAGGAGCAAAGGAACCGGGGGGGGAAAAAGGC G G G G G G G G A A A GAAAAGGGGGGGGAAGGAAAATTAGGGAGAA G G A A A GAGAGAGAAGAGGAAAAAGGAAAGGAGGCCCAACAAA A A A G G GAAA A A G G G A A G GAA A A GACATAGGAACCGGAAGAGC CCGACCAGGGAAAAAAAAAAGGAAAACCGGGGAAAAAAAACC G GCCGGAAAACCGGGGGGAAAAGGAAAAAAGGGGAAAAGGGG AAGGAAAAGGAAGGGGGGGGCCAAGGAAAAAAGGAAGGCCGG A A G G A A G G GAA $A \operatorname{G} C A G A A G A A A G G T T A A A A A G A G A C A G G G A G$

 G G A A G A A G A A A A G A A A G G CA A G G A A GAC G G G G G G A A G G A G G G GACCGCAAAGGGAAGAGGAACAAGAAAAGGAGGGAGCAGGAG
 AC GACAAGCCGGGGAAAAAAGACCAAGGGGAAAAAAAAGGGG T TA GAAAACAAACCACAATACCAAGAGGAGGAGACAGGAGAA
 C C G GAACAACAACCGGAGGACCAAGGGAAACCGGGGGGGGGA $C C C C A A G G G A A A C C G G T T G G G G A G A G A G G A G A G G A A G G G A A A$ GACAGAGACCAAAAAAGGGGAGAAGAAAAGCGGGGAGAAAAA GAAACCAAAGACAACAAAGGAGCCGGGGCCGAAGCCGGGGAA ACAAGGGGAAAGCAAAAAAAAAAAGGGAGAGGAAAAAGACGG A A A C C G A G G G G G A A A GAGC C G G G G G G G GAAAA A T A A A G G GA G G AAAAGGGAAGAAAAAAAAGGAACCAAAAGGAAGAGGACGAGG
 A A A A A A A A A A G GAACCCCGGGAACCAAGAGAAGGGGGGGGGG AAAAAAGGGAAAAAGAAGGAGAAAACAGAAGGGGGAGGAGAG G GAAACGAAAGGGGCAGAGGCCGAGAACGGCCCCAAGAAAAG GAGGGGTAACGGTTACGGACAAGGGGGGGAGGAAAGA
A G GAAAGAAAAAACCGGAGGGAGGAGGAGAAAGGGAGCAGG GAAGGGGAGGAACGGGGGAAGGAAGAAGGAAGGGAAAAAAAG GAAAAGAAGGGGAACAGAGAGAAGAGGGAAACGAGGGGGGGG G GCAGGAAAAGGCCGGAGGGAGCCCAGGAAGAGGAACAAAAC AAGGAATTGAAAGAAGAGGGGAGAAAGGACGGGGGGAAGAAA A A A A GAGGAGGGAGAGGGAGAGCCGAAGGGAGAAGGAGACAG A A A A A A GAGGAGAAAAAAAGAGAAGGAGAGGGACAAAAACBG A GAGCCGGGGAAAAGGGGAAAAAGAAAGACCCAAGGAGAAAA A A A C A A A A G G G A G A G G A GAGAA G G G G G GAAA A A G G G G CA A A A $G G C C A G G A A G G A G G G G G A G G G G C A G G A A A A A C A C A G A A G G G A$ G G GAA A G GAGGGGGGGAAAAGAAGGAAGGGGGGAGGAAAGAG
 A A A A G GCCGGAAAACCGGAAAGCAAGAGAGGGAACCGGGGGG C CAGAAGGAAAAAAGGAGAGAAGAAGGGAAAAGAGAGAAAGA C C A C A C G G A GAGTTGGGAGGAGCCAAAAGGGGGGGGGGAGAC G G G G G GAAGGGGGGGGAAAGCCGGAAAACCAAGAAAAGAAAA GAAAGGGAGGCAAGCCGGAAAAGGGGGGGGAGAAAGGAAAGG GGACCCAGAACAGGAAAGGAAAGGACCAGGGGACGGAAAGAG G G A G A G A A A A G A G G A G G G G A G G C C G G A G G GCC G G G G G A A A G G $A C G G A G G G G A A C A G A A T T A A G A G G G G G G C C G G T A A G A A G G G G$ A GAGGAAAACCCGAGGGAGGGAGGAGGGGGAAGGCCGAGGGG C CACGGGAGACCGGAAAAGGCCGGAAAAAAGGGGAAAACCCC AAGGAAAAAAAACCAGAAGAAGGGAACCAAAAAGAAGGGGAG AAAACGGGAAAAGAGGGAAGAAGGAAGGACGAGAAGACCCGG AAAGAAGGACCCAGAGAGAAAGGAGGAGGAGGAAGAAGAGAG G GAGAAAGACGGAGAGAGAACCAAACGGACAAGGAGAAACBG A GAGAGAACCGGAGAGCCGGGGAGGGAAAAGGGGCCGGGGGA
 GAGGGGGAAAAAAAAAAAAAAAAAAGAGAAAGCCABAAGGGG G G G A G A A C A A A A A A A C G A A A A A A A C C G GAAAAAA A GAA G G G G C CAA $A G G G A G A A C C A A A A G G A G G G G A G A A A A G G G A G A G A G G G$ A GAGGGGGTTAGAGACAGGAAGGACCAAGAGGGGCAGACCAG G GAAA A G GAGAAGACAAAAAGGAGGGAAGGAGAAAAAGGGGG A G G G GCGAGGGGAGGGCCGGAAGGGGGGAAGGGACCCCAGGG G GAGAACCAGCAAGGGGGGGAAGGAGAGGAGGAAAAGEGGAA G GAA A A $A \operatorname{G} C A A A A A G G G G G G G A A A G A G G G A G A G A G A A A A G T T$ G GCAAAAGAGAAGGGAACGGAGAGAAAGGGAGAAAAACGGGG AGAGGGAAGAAAAGGGGGCCAAGGCCAAGAAAAGGGAAAAGAA AAACGGGGGGGGAAAGGGCCAAAAAAAAAAAGAAGGCCAAAT $A \subset A G A G C C G G A G A A G A A A A A G A G G G G A A C G A A A A C C G G G G G G$ G G G GCAACAAGACCGAAAAGAAAACCAGAAGGGAAAAGAAAC A GAGAAGGAAAGAAGAAAGGAAAAAACGCCCCAAGCAAGGAC GAGAGGCCAAGGGGAGAGGGAGGGAGCCGGAAAAAAGGAGGG C CA $A$ A A A A GAGGTAGAAAGAGGGGACAAAGGGAGGGGGAGAA A A GAGAAAAAAAGGGGAAAAAAAGGAGACCAGAAAAGGGGGG AAAGCAAACCAAAACCAAAAACAACAAAAGAAGGAGGAAAAG $G G A G G G C A A C A A A A G G A A A A G G G G A A C A A G G G A A A G A G A A A A$ C GAC C G C A A A G G G GAAAAAAGGCCGGGGAAAAAAAAAAAAAA AAGGAAAGGGGGGGAACCAGAAGGGGGGAGGAGGAAACAGAG C CAAAAAAAACCCCAAACGGGAAAGAAAGGAACCAAAGAAGA
 G G GAGGGGGGGGAGGAAATTGGGGGACAAAAAAAAGAAAACC G GAGAAAGAGGGAAATAAAAAAGGAAAACCGGAGCCAC CAAA $A C A G G A A G A A A A G G G G A A A G A G C G G G G G A A A A A A C A G A C C G G$

GACAAAAGGGGAAGGGAAGGGGAGGGGGCCAGAAAAGAAGBA G GAGGGGGAGAAAAAGGGGGAAAACCGGGGCCGGAACAAAAA C CAA $A \operatorname{GAC} C \subset G G A G A A A C G A G G G G A G G A A G C C G G G G A A G A A G$ GAAGAAGGAGGGCCGGAGGGAAGGGGGACCAAGGAGCCGGGG GGCAGACAAAAGAGACGAAGGGAATAAAACAGCAAAAGAAGB G G A A G GCGCCAGGGCACAACGAAAAAAGAGGGGAGAAACCAC C C G A A A A A G GAAAAGGGAAGGGAAAAGGGGAGAAAACAAAAC AAAGCCAGAAGAACAGGGCCAAGGAAGGCCGGAAGAAAAAAA GAGGCCGGAACCAGGGAAAACCGGGGGGGCGGAAAACAAAAA AAAAAAGGGGGGGGGAGGAAAAGGAAGGAAAAAGATCAAAAA G G G GACAACCAGAAGGAAAGAAGGAGAAGAAGGGAAGAAGAC A G G A A A A G A A A A G G A GCAACAGCCGGGGGAATAAGAAAAGCC A G GAA A A GCCCAGGGGCCGAAAGGAAAAACAAAAGGACAGAG GAAAAACCGGAAAAGGGGGAAAAAGGGGAAGGGGAAGAACGG AAAAGAGAGGAGGGGGGGGAGAAACAGGAAGGGGAGGGAAGA A GAGAAGGCCAAAACCAACCAACCCCGGCCAAGGAAAAAAGA G GAAAAGGAACCCCAAAAAAGGGGAAAAAAAAAAAAGGAGGG A G A A A T G G G GCC G G G G G G G A A C G G G G A A A GAGCCAC G GAACA GAGAAACCGGAGAAGGAAGGAACCGGGGAAAAGGAAAAAA GA A A G G G G G G A A G G G G C G A A A A G G A G C A A A G G G G G G A A G G A G A A AACCAGAGGACAAAAAAGCAAGAAAACACCAGGAGAAGACGG AAAGCCAAACAAGGGGAAAAGGAAGACCGAAACAGAGAATAG G GCAGAGGAGAGAAAAGAGGGAAGCAAAAAAAAAGAGACCAA
 A G A A A A A G G G G C G G G G A G A A A A G A G G G G G A A A G G A A A A G G A A G G G GAACCAAGGAAAAGAGAAGAACGGAAAAAAAGAGGGGGG AA GAA $A$ AA AAAAAAAACAAAGGAACCAAAGGGAA GAACAAGG A A A A G G G G A G G G G G C C A G G G G G A G G A G G A A G G G G A A C C G G G G A A G G A A A A G G A A C C G G G G G A A GAGAGAAACAGAAAATXAAAG G G A A A A G G G G G G G GAA $A \operatorname{GGGGAAACCAACAGGAGGAGAACCGG}$ G G G G A G G A A A C C G G G G A G A G G A G G A GAC G GAAAAAA A A GAA A A GAGAGAGAGGAAGGAGAGAGGGCAGGAGCAAACAGGGACAGG A GAA A G G G A A G GAAAAGGAGAGGGAAAAAAGAAAGGGAACAA G G A A A A T T A A A G G A G G GAGGGACAAGAAAAAGAGAGATAGAA A A G G G G G G G G A A C C G G A A A A A A A A G GAAAAAA A G G G GAAAA A G G G G G G G G G G G A A G G A A G G A A A A G GAAC C GAAA A A A A A A C C C C ACGGCCAGAAAAGGGGTTGAAAAAAAAGGGCCAGAGCAGGAG G GAACCAAGGGGGGGGAACCAAAAGGGGGGCCGGGGGACAGA A A G G A A G G A G A A C C GAGGAAAGCAAGGGGAAAGAGGGAAA G G G GAGGCGGGGAAGCAAGGGGAGAAGGAACCGGAGAAAGAAAA G G G GCCAGAAGGAAAAAAGGGGCCCCAAAAACAAAAGGAAGAG GACCGGGACCGGAACCGGGGGGAAAGGGCCACAAAAGGCCAA G GAAAAACCAAAAGGAAAGGAAGGAGAAAAAAGGGGAAGGGG
 A A G A G G C A G A A G G G G G G A C G G G G G G G A A G G A A G A A G A G G A A $G$ GAGGGAGGAACCGAGAGAGGGGGGACAGAAGGAGAAAAAGGG G G A G A A G G A A A A A A C CAG G G G A G G A A A A G GAGGGAAAAA A C A G G GAGGACAAGGAGAACCAAGGGGGGAAGGGAAAGGAGAAAA A GAGAGACGGAAAGAAGGAGGAAGGGGGGGCAGAGAGAACAG
 AAAAAGACGGAAAACCCCGGAACCGGGGAAAAGGGGAAGGAA
 A A C A A A A G G A G G A A A A A A G G G G G G G G A A A A A A A GCCAAAAC C ATAGAGAAAAAAGAGGCCGGCCAAAAGGCCAAAACCAAAGCC A GAGGGGAACAGGAGGAAGGAAGGAATACCAAGGCCCAAGAA G G G GCCGGAGGGAGGGAGAGAACCGAACAAGGAGAAAGAAAG C CAA $\operatorname{C}$ G A A A A G GAGAAGGAAAAGAAAAGGGAAAGAAAAAAA C C G G G G A A G G A A A A C C G G G G G G GAGGAAGGAAAAGAAAA A A A AAAGGGGAGGGGAAAAAAGAAAGGGGCCGAAGAAAAAAAGAA

GAAGGAGAAAGAGGAGGGGGAGCCAAAACAAAAAAGAGAAGG C C G GCA $\operatorname{CA} A \subset A A A G G A G A A G A A A G G G G G A A T T G G G G A A A A A A$ A A C C A A A A C C A A A A A A A A A A A A A A C CAAGGGGAAG GAAAAAA AACCAAGGAAAGGGAGAGGGGGCCCCGGCCGGAAAAAAAAAA $G A C C A A C C A A C A A A G G G G C C C C A A A G C A G G G A C C G G G$
GAAGGAGGGCCAAGAGAGAGGAGGAGGAGAGGACAAGAAAG A G G A G G G G A G A A G G G G C C G G C C A G G G G G G G G G A A G G A A A A G G AAAACCGGAAGGGGGGCCAAGGGGCCAAAAAGGGAAGGAAGG GAGAAGAAGGGGGGAAAGAAAGACAAAGAGAAAGGAAACCCC AAAAGAAGAAGGGGAGGGGAAGAGAGACGGAAGGCCGAAACA $C \subset G G G G A C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G G$
 A A C C A A G G C A A A A A A A $\mathcal{A} G G G G G G G A G G G A G A G G A A A G A A A C A$ C C A A A A A G GCGGCCGGGGCCGGGAAAAAAAACGAAGGGAGAA AAGGCCGAGAGGAAAGGAAAAAGGAAGGGGGAAAGGGGAGAA AA G GAAGGGAAAATAATAAAAAAGAAGAGGAAGGCAGACAGAG A ACCAGAGAGAACAGGGAGGGAAAGGGGCCAAGAACCCGGCC AAAGGGAAAAAAAGAGGGAGAGGACAAGAGGAGAAGGAGGAA A G G GAGACGGAACCGAAGGGGAAAAGGGGGAAAAAGGGAAGA
 $C C C C A C G G A A G A G G G G G G A A A C A G A A G A C C A A A A G G G A G G G A$ G GAAAAAGAAAGCAGGCCGGAAGGAGAAGGGGAGGGAGGAGG A A G G G A G G A A A G G G G G G A A GAG G G G G G A G G A A G G G GAAC C $\mathcal{A} A$
 GAAGGAAAGGGGAAGGAAAACCAACAGAAGGAGAGGGGGGGG A A A GAGGGAAGGGAAGGATTAGCAGACGGGAAGAAACAGAGA GAGGAGCCGGGAGAGGGACCAAGGAGGAGGCCGGACGAGAAA
 G G G G G G A G G G G G A A G G G A A A A C A G G G G G G G A G A G A G G A A G G A AGGGAAAAAAGAACGGACAAAAGGCCGGAAAAGGGGAGAAAA G G G G G G A A G G A G G G A G G G G G A A G G G G A A A GCC G A A G A G G A A A AAGGGGGGAAAGAGGGAAAAGGGGAGAGGACAGAGACCGAGG G G G G G G T T GAGGCCAAAAAAGAGGAGGGACGAGGAAGAAAAA G G G G A A C A A G A GAAAAAAAACAAAAAGAAGAAAACCGGAGAA GC G G GCGGGGGGAAAGAGGGAAGGGAGGAAGGCCCCAAAACC C C G G A G G G G G G G G A G G A A A G G A A A A A A A A GAAA A C C G G C C C C G G GACCAGGGACACCGAGGGTAAACGGGGGAAGGAAGGACCA G GAA A A A GAGGGGACAGAGGGGAAAAAGAAAGACCAAAAAGA A A A GCCGAGGAAGGCCGGGAAGAGACGGAAAACCAAAGAAAA C C G GCCAACCAACCAGGATAAAAGCCGAAAAAGAAGAGGGGG G GAGAGGGAAAAAAAAGGAGGGGGGGGGGGGGGGAAAAAAT T A A A A G G A A GAA A G G A G G G G G A A A A G G CAAAAAAGGGGAAACC G G G GAAGAAAGAGGACAGCAGAAAGAGAGGGAGGGAAAGACA AAAGGGAGGGCCAAGGGGGGAGCAAGACAGACAGAAGGAGAA

 A A C A A A A A G GA A G GAGAAGGAAGAAAGGGGAAGAAAAAAA GA A G G GAA A G G G G GCCGGGGAAAAAGAGGGGGGGAA GAGAACAA GAGGGGAAAGGCAGAAAGGGAAGGGGAAGGGGAAAAAAGAAT GAGGGGAGAAGGAAGGCCAAAGCCCCAGGGAAAAGGGGAAGB $A A C C G G A A A G A G C C A A G G A A C C A G G G G G A G A A A G C C G A A A G G$ G G GAGAGGAACCGGGGAGCAAAAGGGAAGGAAAGAAGGAACC C C A A G G A A G G G A C C A G A G A A G G G G A A G G G G A A A G A A G G G G G G AAAAGGAAGGAACCGACCGGGGGGAGAAAAAGAAAAAAAACC C CAGGAGAGAAAGGGGGGAAAAGAGGCAGGAAAAAAGGAAAA C A A A A A G G A A A A A A G G G G G G C A G A A G G G A G A G G G G G A C G A G G G GAGGGGAGGGGAGAGAGGGGGCCGGGGAGAGACAGCCAACA A G A A A A G G A A A A G G A A G G G G G G G G A C G A A G G G G G C C G G A G G G $A \subset A G G A G A G G A A G A G G C C A G G A A A C C A G A G C C G G A A G G A A G G$

A G A A A A A A A A A G G G GAACAAAAAAAAAACCGAAGCCGGACBA A A G GAGGAAAGAAAGGACGGAGAAGAGAGGGGCGGGAAACAA A A A A A A G G GAAAGGGGCCAAAAGAAGGGGAGAGGAACAGAAA G G G GAA $A$ GAAAAAAAAGACCAAGAAAGGAAGGGAAAAAAACAC $C \subset A A G G G G G G A G A A A C A G A A G G A A G G G G G A A C C C A G A G G A A A$
 A A A A A A A G GAA $A$ G $\operatorname{A} A A A G A T T G G A G A A A A A A A A A A G G A A A A G G$ GGAAGAACAAGGCCGAGAAAGAAGACACAGACAAGGAAGAGA G GAGCAAAGGGAAGAGAGGGGGGAAACCGGAAAGAAGGAGAA AAAGGACAAAAAGGAAAAAAGGCCAACGGGGGAGGACCCAGG G G G GAAAAAAAGAGTAAAGAGAAAATAAACAACCGGCCAAGG A G G G TACCAGGAAAGAAAGGGGGGCGAGAGAAAGGEAAACTT G A A A G A G G A A G A G A G G T A A GAACAAGGGAAGACCAAAGAAAG $G G A G A C G G A A G G G G A G A G C C G G G A G G A A A A G G A A A G A A A G G A$ GAGGAAGGGGCAAGGAGGAGAAAACAAGAGAAGAGGGGAAGG G G GAGAGAGAAGAGAGGAGGAAAGGAGAAAGGGGGGCCAACAC GAAGGGCCGAGGAGAAAGGGAGAGAAGAAAAAAAGAAAAAGB G G G A G GAGGGCCAAGGCCGGAAGGAAAAGGGGGAGAAAAAAA CCGGCAAAAAGGGGGAAAGGGAGGGGGGGGAAAAAAGGGGGG A GCACAGAGAAAGGCCGGGGACAAGGACAGAAAAAGCAACAG AAAGGAGGAGGGGGAAGGGAGGAAAGACAGGGAGGGGGAGAG GAGGTTAGGGAAGAGGGGAAAACCCCAAAGGGAAAACCAGAG G GAGAAAAAAACAGAAGGGGAAGGAGAGCGAGAAGGAGAAAA A GAA $A$ A $A$ A $G G A A C A C C A G G G A A A A A A A A G G A A C C A G G G G G G A$ AGAAGGACGAAAAAGAAAAAGGAGAGACGGGACAAAGAAAAA AGGACCGAGGGGGGGGAGAGGAGAACCCGGAGAAGGAAAAGA GAGGGGGGCCAGGAAACGCAGGGGGGGGAGGGCACCCCAAGG GAAAAGCACAGGAAAAAGAGGAGGGGAAAAAAGAGGAGAGAA ACGAGAAAAAAAGGCCGAAGGGAAGAGATAGGACCCTTAAAG AACCGGGGGAAGCCGAAAGGAAAAAAGGGGTTGAAAGGAGGA GACAGAGGAAAGAAGGAAAAGAAAAAGGGGAAAAGEAATTCC ACGGGGAAAAACCCAGCCGGGGGGAAACGGAAGAGAAGAGCA C GAA $A \operatorname{GGGGACC} C \subset G G A A C C G G A A A A A G A A G G A A A G G G A A G G$ G G G G A G G A A G G A A G G G G G A A A A G G A A A A A A A G G GAC G G A A A $G$ G GAGCCAAAGAAGGAAGAGAGGGGAGAGGGCCTTACGGAAGAG GAAGCAAACCCCGGAGGGGAGGGGCCGAACAAGAAGAGAGGG
 A TAAAAAAGAAAAGAAGAGGCAGGGAGGAAAGGAGGGBAAAG G G A A G A G GCCCAGGGGGAAAAACCGGACAAAAGGCCAAACAG G GAA A G G G C C A A G G G A G G G G G G G A C C G G G G G G G A G G A G C C A A G GAGGAGACAGACCGGAAAAGGGGGGGAAACCCAAGAGAGAA G G C C A G G G A A A A G A G G G A A G A G A G A G A G A A GAA A A A A G G G G G G G G G T TAA $A \operatorname{GAA} C C G G A A A G A C A G A G A C A G A A G G G G G G A A A A$ G G G G G G A A G G G G GAGGACGGCCGGGAGGAACCAAGAAAAAAA GAAGAGGGGGAAGGGGGGGGCCGGAAAGGAAGGGAGAAAAGA A A G GAAAACCAAACGGAGGGAGGGCCCAGGGGGBAAGGGGGG A A G A A A G G A G G A C G G G GA $\mathcal{A} G G G G G A G A G G G G G G A G G G G G G A A$ G G G GAAAAAGGAAAAAGGAAAAAGCGGACAAAAGGAAAAAAA
 A G A A A A G G A GCCAAAAAAGGGGAAGGGACCAAGGAAAAAGAG GAGGGAAGAGGGGGCAAAAAAAAGGGAAGGAAGAAGAGAGAA GGAAAGACGAGAAGCATTACGGGCGACACAAGGGAACAGGGA
 G G G G A A G G A A G G G G G G G A A A A A G A A G G G A A A G G G GA G A A A A A $A G G G G G A G G A A A A A G G C C G A A G G G G A T A A A G G G A G A G A A G A C$ G GAGGACGAAGGAAAAGGAGAGAGAGAAGGGGGGGGGGAGAA G GAA $\operatorname{G} A A \operatorname{A} G A A A A G A G A A G G C C G A A G G A A G A C G A G C A G A G A A$ $G G A A A G G G A A G G G G A A A A A A A A G G G G A A G A G G G G A G A A A G A G$ G G G G G GACAGGGAAGAAGGGGGGGCCCCGGAGAGGGGAGGGA

GAAAGGCAAACCGGAAAACCAGGGCCGGAGAAGAGGGGAAAG GAGGGGGAGAGGCCCCCCGAGAGAAAAAACAAGGGGAACAAA AACGAAGGAAAAGGAAAAGGCCGAAAAGAGCAAAAAGGAGAA G G G GAAACAGAAAGGGAAGGCGCCGACAGAAGGAAGCCAAAA

G G G A G G G G G G G A G A C G G G G A A G G G G A A A $\mathcal{A} A G A G G G A A G G G G$
 G G G G A A G G A C G A A CAC GAGAAGAGAGGGCCGGGGAAAA G GA G A GAACCAGGGAAGGAAAAGAGGGGGGGGGACCGGAAAAGAAA GAAGGGGGGAAGGGCCAGACAAAAGGAAGAGAGAAAGGAAGG A A G GAAAA $A \operatorname{A} A A \operatorname{A} G \mathrm{G} G A A C \subset A A A A G G A A A A A A G G G G G G G G G G$ AACCAAAAAACAGGGGGGGGGAAAAAAAAAGGGGGGGGTAGG G G G A A A G G CAA $A$ A A GAGGAGGAGAAAAAGAAAAACAGCAAA G G $G G G A G A A C A G A A G A G A G A G A G G G A G G G C A G G G G G G G G G A A A A$ GAGGCAAAGAAAAGAAGAAACCAGAGAGGAGAGGCCGAGGCC ACAAGGGGAAGAAGAGAAGGAAAGGGGGGGAGGGGGAAGACA A A A GAAAACATTGAGGAGAAGGATGAGGGGACAGGGGGCCAG G G A A A A G G A A G G G G G G G G G A G A G A A A G G A A A G G A A A C C G G A G $G G A G G A A G A G G G A A A A G G A A A G A A A A A A G G C A A A G G A A A C A A$ $A C G G A A C C A A G G A G A A A A A G C C A A A A G G A A A A G G G G C C A G G G$ A G G A A A A A G G A A A A A A G GAAAAGGGGAAAAAACCAGTTAAG G G G G GAGAGAGGAAACAAAAAAGGGGGAAGGGGAGAAAAAAAA C C G G A C A A A G A A G G G G G G G GAA $A \operatorname{G} G A A A A G G G G T T G A A A G A G G$ G GAGGGGAAAGAACGGAAAGAAGAGAGGGGAGAACACAAAAG AAAAAGGAAAGGAACAAGAAGGAAAACCGGGGAACACAAAAA A GAAGCGGGAAAAAAAGAAGGGGGGGAAAATAGGCCAGGAAA A G G GAA A G G GAAGGAAGGCCCCGAATAGGAGGAAAGAGAAAA AAAAAAGGGACCGGAAGAAGAAAAGGACGAGGAAAAGAACAC GAGAGAAGAGAGGGCAGGGGAAAGGAGAGGAAAAAAAGAA GA A G G GAACCGGGGGGAGGGAGGAAAGGGGCCGAAGGGCCAAAA A G A A A G G G A A G GCCAA G G A A GAGAAAGGCCGGGAAGGGGGGA AAAGGAAGAAGAGGAAGGAAAAAGGGACGGAGAACCAAGCAA G $G A A A G G G G G A A A A G G G G G G G G G G C C A A G G G G A A A A G G A G A A$ $G G A A A A G G G G G G A G A A G G A A A A A G G G G G A A G G G G G G A A G G A A$ $A G C C G A G G G G A A A G A A G A A A G A G G A A G G A A A A A A A A A A A A G G$ G G G G G GAA $A \operatorname{GCC} C A T C C G G G G A G C C A A A A A A G G G G G A G G A A G A$ AAAAGGAGCAACAAAAAGGGAAGGAAGGGGAAGGGAGGAGAG AAAAGGGGGGAAAACCGGGAGGCCAAAAGGGGGAAGAAAAGA A A A A A A A A A A C C G G G G A A G A A A A A A A G GAGGAAACCA G G GAA C C G A A A A A A G A A A A G G G GCCGGAGAAAAAGAACAAGGA G GAA G G G GAGAGGGAAAAAAAAGAGGCCAGGAAGGGAGGGAAAAAC G G G G G A A A A A G G G G G A A A G G A GAGGAAGGGAGGGGGGAAAAA ATCCAGGAGACAAAAGAGGAAGCAGACAGGGGGGGGGACAAA A GAGAGCGAAGAGGAGGGAAGAGGCCGAAGGGGGGGAAGGGG A A A A C C G A A A A A A G GAGGGGAACCGGCCGAGGAGGAGGGGCC G G A G A A G G G G G G G G G G A A A A GAGGGGAAAGCAGACAAGAAAA G G G G A A C C G G A A G A A G A A G GAGAGAC GAAAAC G G G GAACC G G AAGAAAGGGGAAAAAAGGCCGGGGAAAAGGGGACCACACAAA A A A A A ACAAAACGAAAAAGGGGCCAACCGGGGCAGAAAAGGG GAGGGGCCCCAAGGCAGAAGAAGGGAAGGGAGAGAAAAAGAG A GAAAAAAGGAACCGGAAAAGGAGGGACGGGGGGGGCAGAAG G G G G G A A G GA $\operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A G A G A G C C A A G G A A G G A G A G G G$ A A G G G GAACCAAAGAAAAGGGGAAAAGAAGGAGAAGAGAAAA AAGGGAGAGGAAATAGGGCAACCCGAAAAAAAGAAAAAAGGA AAAGGGGAGAAGGGGGACAAAAGAGGGAGAAACCAAAAAAGG G GCAAGAACAAGAGAGAGGAAAGGGGAAGAAAATCAGGAAAA AAAGGAGGAGGGAAAAAGAGAGGGGGACAAAGACAAAAGAAA GAGGGGACGGAACCAGAACCAAAAAGGGGAAATTAACCCCGG GACCAAAAAGAGGAGAGAATCCCCGAGGAAAGGAACTTAGGG

G G GAA A A A A A GAAAAGGACCGAAGGAGGGGGAGAGAGAGACC G G G A A A G G G G A A G G G G A A G GCCGGGGGAACGAAGA GAACCCC GACAAAAAAAGGAAAGAAAGAGGACAAGGAGAGAGACCCCAA CAAGCAGGAAAGGAGAACAAAGAAGGGCAGCAGGGGAGAGGG GAGAAGGAAGGACCAAGGACAGAGGACCAGCACACCAACC GA $G G C C G G A A A A G A A G A A G A A C G G G G A G A A A C A A A A G A T A A A G G$ G G G G G G G A A A G G G G C C G G G A A A A A G A G GA GAACC G GAA G G C C
 G G G GCCAAAAAGAAGGAGAGGAAAGAAAGAAAGGAACCACAA G G G GAAAA A G G G CA $A \operatorname{AGA} \operatorname{A} A A A A A A A A A G A G G G G C A C C G A G G A C$ GAAGCCAGAGGACCCAGGGAGAGAAGGGGGAAGGAAAAGGGG A A GAGAGGAGACGAAAGGAACAAGAAAAAAGGGGAGAAAAGG A G G A A A G A G G G ACC G A GAA A CAGAAGACCCGGGGGGAAAA GA CAAAGACCGGAACCCCCCAACCGGAAGGGGTTAAGGCCGGGG G GAAAAGGGGGGAAGGAGAGCAGAGGGAAAGGAGAAGAGAAG A G G GAAAAGGGGGGTTAAAACCGGAAAGGGGGAAGGGGGAGA A A A A A G GAA A ACAACCGGAAGGGGGGACAAAAAGAGAATXGA G G G A A GAGAACAAAAAAAAAGGGGAAAAGGACAAAGCGAGAA A G GAGGGGCCAAAACCGGGAAGGGGATAGGGGGAGGGGAAGA A A A G G G A A GACATTAAGAGGGGGAAGGGAAGGAAAGAGAAGA AAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGGAG A A GAGGAAAGGACAGGGACAAGAGACGGAAAAGGAGCGAAAA AA $A$ A $\operatorname{A} G A G C A G A A G G G G G A A C A A G A A A G A G G G A A A G A G A A A A$ $G G C C A A A A A A G G G G A A A A A T G G G G G A G G G G A A G G G A G A G A G B$ GAAA $A \operatorname{AGG} \operatorname{A} A A G G G G G A A C G G A A A A G A G G C C G G A G G G G A G A A C$ C C T TA GAAA A A GCAGATTAAGGGGCAAGAACAA GCCAGGGAG A GACCGGGAAAGCAGACCGGAAAAAAAACCGGGGGGACGGGG GAGAGAACAAGGGGAAGGCCGAACAGACAGGGGAGGGAAAAG G GCCGAAAAGGGAAAAAGGGGACAGAAGAGAAGAAGAAAAGA $G G A G G G A A G G G G C C A G A A A A G G A G G G A C A G A A A G A A G G A A G G$ AAGGAACCGGAAAGGAAGGGAAAAAGACACAGAAAGAACACC AACAAAGGGAAGGGGGAAAAAGAGCCAAGGAAAACAGGAAGA GACCAAGAAAGAAAAACCCCGGAGACGGAAAAAAAAGGAGAA
 G GAA A G G G G GAA A A A G G A A A A G A A A GAGGGAAAC GAAAAA G G G G A G G G A G A A A G A A G A A A G G G G A A A A A A A A C CAA A G C CAA G G G G G GAAA A A A G GAA $A \operatorname{A} G A A A A A A G G A A C C G G A A G G G G A A C A A G$ GGACAAAGGAAACAAGCCGGAAACAAAAGGGGGAGGCCAAAA A A G G C C G G G G G G A G G G G G G G G G G A A A A A A $\mathcal{A} A A G G G G G B C A A A$ A A G G A A A A A A G G G G G G A A G A C A GAGGGAAGGGGGAGGGAA G G GGAAAAACACAACCGGAAGGAAGGCCGAAATAAAGGAAGAGA A A A C G G G G A A G A A A C CA A GACACC G GACAAAA G G GAA GA G G G GAAAAGAGGAAACCCCGGCCAGAGAAGGAAGGGGGGCCGGGG G GAACCCACAAGAGAAGAAAAAAAGGAACCCCGGAGAGAAAA G G G A C C G G G A A A G G G G G G C C G G G A G G A A C C G G G G A G G G G A G A G G A G A G G G G G G G G G C CAA A C CAA A G GAG G GAAA A G G G G G G G A A G G G G A A C C C C G GC C G G C C G G A A G G G G A A G G G G A A A A A A G G A G C C G GAGAAGGAACCAGAAAGAACCCCAAGGGAAGCCCCAACA GAAAGGAAGAGAACGGGAAGGGAGAGAAGGGGAAAACCAGAA
 A A A A G G A G A G G G G A GAGGGGGGGGAGAAGGAAGGAAAA G GAAA AA $A \operatorname{GGA} A A A A A A A A G A C A G G A G G G A A G A A A A A A G G G A A G A G G G$ $G G A A A G G G A G G G G A G G G G G G A A A A G A G G A A G A A A G A G G A G A A$ G GAGAGAGAGGAAAGGAAAAGGGAAGGAAGCCAGGACACCGG G G G C A A A G A A G G G G G G G G A A G G C C G G A A C C G G G A G G A G A G G G C C G G A A A A A A G A G G G G G G G A GACCAGCAAAAAAAG GAGAAG G A G G G A A A A GACCCCAC GGCCCAACGGGGAACCAAGGGGTTGG1 G GAGGGAGAAAGGAAAAAGACAGGGAAGTTAAGGGAGGGGGG $A G A G A G A A G G C A A G A C A A G A G G G G C C G G A G G G A A A A C C A A G G$

G G G GAAGGAAAAAAGAGGGAGGCCAGAGCCAAGAGGGAAACA CAAAGACCCCCCCACAAAAACCAGGAAGAAAAGAGAGGGAAA A A G G G GCC G G G GAA A C CA A A GA G GA G GA GA GA G G G G G C C G G G A $C \subset G A G A A G G A C C A C A G A A A G A A A G A A G C A A C C C A G G A A A A G G$ GAAGAGGAGGGAAGCCGGCAAAGGGGAAAAAAAAAGG
GACGGACAGAAGGAGGGAAGGGGCCAACCGGGGGGAAAAGG GACAAGCCGGAAGACCGGGGGGGGAAGAGGAGAAAAAAGGGG $G G C C G G A A A A A A A A G G A A G A A G G G A A G G A A G G A A A C A A G G G A$ A G A G A G G A GA G GCC G G A A A G G A A A A G GAGGGGAAAGAAAAAA G GAGAAGGGGAGAACAAGAGAAGAACAAAGAAAGAGCAGAAC A A A A G A A C G G A A A A A G GAA A A A A A GGGGGAGGAGAAA GAC GA G G G G G G G G A A G GAA A $A \operatorname{A} A G G G G G A G A G A A G A G A G G C C A A C A A A$ A G A A A A A A $\mathcal{A} G A G G G A G G G G G A G G G G G G G G G A A G G G G G A A A B G$ GAGGCGGAGGAGGGAGGGAAAGGAGGGAAAGGAAGGAAGAAA A A G G G GAA A A G GAAAAGGGAAGACAGAGCCGGCAAGAGAAGG $C \subset G G A G A A A A A A A A A A A A A A G G G G C A G A C C A C A G A G A G A G G G$ G G A A G GAAAACCAGGGGGGGAACCCCGGGGGGAGGGGGCAGG G GCA $\operatorname{C}$ GAGAGGGAAAGCCAAAAGGGGCCGAGGAAGAAAAGAA $G G A A A G A A G A G G A G G A A A G G G A G A G G G A A C G G G G G A G G A A A A$ G GACGAAAAAGGGGGAGGGGAAAAAACAAGGAAAGAGGAAAA GACCGGGGGGAAGAGAGGCCAAAACCGAGGAGAGCAGGGGAG G GAAAAGAAAAAGGGACCAGAAGGAAGGACAGAACCAAAGCC AAAA A GACAAAAAAGGGGGAAGAGGGAAAAGGGGAAGAACAA
 C C A A G A A A G G G G A A A A G A G A G G A G G G G G A A G G C A A G A G G G G G C CA $A \operatorname{GGG} G A A C C A A A A G G G A A A G G G G A A A A A A G G G G G A A A C C$


 G GAAGGTTAACAGAATAGCAAGGAAACCAAGAAAAGAAAAGG A A G G A G C A G G C C G G G G G G A A G G A G G G A A G G A A G A A C G A C C G G AAGGAAGGAAGAGGGGAAAACAAAGGGGAAAACACCCAGGTA C C G A A A G G CAG G G G G GCC GACCGGGGAAGGGGGACAAAAAAA A A G G G A G G A A A A G G G A G G G G G G G G C G C C A A C CAA A A A C G A G G
 A GAA A GACAGGAAGAAGGAGAAAAGGGGCCGGAAGAAAAAAG AACAACAAGGGGGGGGGGATAAGGGGGAATAGACAACAAGAA AAAACGGACCAAGGAAAAGGAGCCGAAAGGGGGAAGGAAAGA GAGGGGAAGGAAGAGGAAACGGAAGGAGAACCATACGGAGGG A A A A A A A G A A G GAA A GAGAACAAAGGGGAAGGGGCCGAAACA G GCAA $\mathrm{C} A \mathrm{~A} G \mathrm{G}$ ACCAAAAAAGGAAGAAAGGAAAAGGCCTTAAAA A A A A A A A A G G G GCC G G A A A GAA $A \operatorname{AGGAGGGAACAACAAGGAGG}$ $A A C C G G G G G G A A G G A A G G G C G A G G A A A G G G G A G A A A A G G G G A$ G GCCCAAGGAAAAAGGGGGAAAAGGAACCGGAGGGCAAGAA $A G G G A G C A G G A A G G A A G G A A G A A G G G G A G A G G G G G G A G A A G A$ A GAGGAAAAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAAG A A G G A A A A C C C C A A G G G G G G G G G G A A A A A A G G A A G G G GAAA A G G G G A A C C G G A A G G G G G G G G A A G G G G A A A A A A G G G G A A A A G G G G G GCCGGAAAAGGAAGGCCAAGGGAAAAGAAGGGAGGACAA G GAAGGAAGGACAAGGAACCAACCGGGGAAAAGGAAAACAAA C CAACCGGGGAAAAAAAAAAAAGGGGAAAAAAGGGAAAAAGA A A G G A A A A A A G G A A A A G GCCGGAAAAGGGGCCAAGAAA G GAA G G G G G G A A $\mathcal{G} G G G G G C C G G A A G G G G G G A A A A C C G G G B A A A A G G$ G GAA $A \operatorname{A} A A G G A A C C G G A A A A G G C C G G A A C C G G G G A A A A G G G G$ G G G G G G G G A A G G A A G G G GAA $A \operatorname{A} A A A A A A A G G G G G G A A G G G G G G$ A A G G G GCCAACCGGAAAAAAAAGGTTGGAAAAAAGGGGAAAA C C C C A A A A G GCCAAGGAAGGAAAAGGAAGGCCAACCAAAAGG A A G G A A G G G G A A A A A A C C A A A A A A A A A A G GGGGGAAAA G G A A $G G G G A A A A G G G G A A A A A A G G G G G G G G A A G G C C G G G G A A G G G G$

G G G GAAAAGGAATTCCGGAAGGAAGGGGAAGGAAAAGGAACC
 G GAAGGAAAACCGGGGAAGGAAAAGGGACCGGAAAAAAAAGG AAAAAAAAGGAACCAAAAGGCCGGGGGGGGCCAAGGGGGGAA AAAAAAGGCCGGGGAAAAAACCAACCGGGGCCAAGGGGAGAA G $G \operatorname{G} G A A A A G G G \operatorname{A} A A G G G G G G G G G G A A A A A A G G G G G G A A G G G G$ A A A A A A G G A A A A A A A A G GAAGGGGGGGGAAGGAA G GAA A A G G C CAAAAGGGGAAGGGGAAGGCCAAAAGGGGGGAAGGGGAAAA A A G G A A G G G G A A G G A A C C G G A A C C G G A A G G G G G G G G G G G G G G $C C G G A A G G A A G G A A A A T T G G G G G G A A A A A A A A G G A A G G G G G G$ A A C C G G A A G G G GAA A G G G G G A A A A G G G G C C G G G GC C G G A A C C
 G G G G G G G G G GAACCTTCCGGGGAAGGCCGGCCAAGGGGAAAA
 G G G G G G A A A A G GAA A G G GAAAAGGGGAAAAGGGGAAAAAA G $A$ AACCAACCAAGGAACCGGGGGGGGAACCAAAAGGAAAAGGGG G G G GCCAAGGGGAAGGAAGGCCAAAAGGAAGGAAAAAAAAAA A A A A A ACCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGGAA A A G G A A $\mathcal{A} G G G G G G G G G G G G G A A A A A A C C G G G G A A A A A A G G G G$ A A G G G G G G A A G G G G A A G G C C G G T T A A G G G GAAAACC A GAAAA G G G G G GAAGGAAAAGGAAGGAAGGAAAAAACCGAAAGGAGAA A G G GACGGCCCAGAGAAAAGCCACGAAGAGAAAAGGAAGGGG G GCCAAGGCCGGGGAAAGGGAAAAGGAAAAAAGGAAAACCGG G G G G G G G G A A A A A A G G A A A A C C A GAGAGGGAGGGAC GAAAC C
 G GAATTAAGGGGAGGGCCGGAAGGAAGAGGCAGGGACCAAGA AAGAGGCCAGCAGAGAAAGGGGAACCCCAAAAAAGGGGAAGB A A G G G G G G G G A A C C G G G G A A A A A A A A GA GAAAA A A A G G G G A A G G G G G G A A G G A A G A A G A GAAAAAGGGAACCCCAACAGGCAAA C CAAAGAAAAAGGGGGGGAAAAGGGAAAAAGGCCCCGGAAAA G G G G G GCCAAAGCAAGGGACAGCAAGCACAAGAAGGCAGAGG
 A G G A G A G G G G G G T T G A G G G G G G G G A A A C G A A $\mathcal{A} A G G A G A G G A G$ A A G G A A G G A G G G G A G G A A G G C C T T G A G A G A A A G A A A G G A A G G
 A A A A G G G G A A A A A A GAA A A G GAAA A A A A A A GAAAAAA A A A A G AA G GAACAAAAACACACAAGGAAAAACCGAGGGGAAGGAGAA $C \subset G G C C A G C C A A G G G G C A A A G A A A G G G G G G G G G G G A A G A A A C$ GAAACAAGAGAAAAAGAGACGGACGGGGGGGAGAAAGAAAAG
 CACCGGGGGGGAGGGGAAAAAAGAAAAAAGAGGGGAAAAAAA A A G G GAGGAAAGAAGGAAAAAAAAGAGGCAAGCACCCCGGAA G GAAAAGGAAAAAGAAAGCAGAAGAGAAAGCAGGAGGAGGAA A A GAGAAAAAGGAAAAGAGAAAGGGGGGAGAGGAGGGAAAAA A G G GCCAAAGCAACGGAAGAGGCCAAAACCAAAAGGGGGGGG A ACCAACCGGGGGGGGAAAACCGAAAAAAACCGGAAGGGGCC GA $A$ A A G A A G A G G G G A A G G T T G G G G G G A G G A A G G G A G C C A G G A
 G G G GAAAA $A \operatorname{A} G C C C G G A G G G A A G G G A G G G A G A A G A A G G G G G A$ G A A A A A G G G G A G A G G G A GCCAACACCGGGGAAAGAAA GAGCC AACCGGAAGGGCGGATAAAAGAAGAGCAGGGGAGAACCCCGG AA $A G A A G G A A G G C C A G A A G A A G G G G G A G G G G G C G A G C C A G A A$ A A A A G G A A C C G G C C G A G G G A G A G G C C G A A A A A A A G G G G C C A A AACCGGAAGGAAAAAAAACCAAAGAAAGAAGGGGGAAAAAAA A A G G G A A A G GAAG $A \subset A G A G G G G A A C C G G C A G G G G G G C C C C A A$
 CAAGAAGAGGAAGGAGGAGGGGGGAAAAGAGAGGAAGAAAAC A A G G G A A A A G G A A GAAA A A A A GCC CAACCCAAACC GAGGGGGG $C C G A A A A G A G A G G G A A A A A A G G A C G G G G A G G G G G G G A A A A A A$

C CAA GAGGCCAGCAGAAAAAGACCAAAAGGCACAGGGGGGAG A A A GAAATGGAGAAAAAACCGGGAGGAACCGGAGGGAAAAAA C C A A A A G G G G G A CA A A G G G G G G A A G C G G A GCCAACAAAAA G G G GAAAGGGAAGAGAAAAAAAGACCGAGGAACCGAAACCAGAC GGAACCGGGAAAAGAAGGAAGGAAAAGGGGAAGAAGA
A A A G A A GAA A A GAAGAAAGAGAACGGGAAAGAGGGGAAAAA AA GAGAAGCCCCAAAACAAAAGAGGGAGAAGGGGATAAAAAA CCGGAGAGAACCAGGGAAACAGAGAGGACGGGGGGAAAAAAG AACAGGCCGAGGGGGGAAGGAAAGGAAAGACCAGACAAGGGG AACCGGAGGAAAGAAAAAGGAACCGGTAAGAAGGAAGGAAAA
 CA $A \operatorname{GGGA} G A A A C G A C C A A T A G A A A G A G G G G G G A G C C G G G A G G$ GAGGGAGAGAACCCAAGAAAGGAGAAAAGGTTAACCACAAAA GAGAAGGGAGGAGACCAAAGAAAAAATTAAAGGAGGCCAGAC AAAGGGGGAAAAAGAAAAAAAAAACCAAGGGGGGAAAAAAAA $G G C C C G G A A A G G G A G G A G G G G G G G A A G G A A C C G A G G A A A A G A$ A G GAAAAGGGAAGGAAAAACAGCCAGACAACCAAGGAAGGGA G G GCAA G G A A A A A GAA GAGGAGAAAGCCGATAAAAGAAGAAG $A G C C A A A G G A A A G A G G A C A A A C G G G G G G A A C C A A G G A G A G A A$ G G G G G G A A A A A A G G G G A G A A G G G G G A A A A G G G G A G A A A A G G G AAAACCAATTGACCCGATCCAGAGGGCCGAGACAGGAAGGGG A A G GAAAA A A G GAAAAGGAGGGAACCAGCAAGTTCCGAAAGAA A GACAAGAAACCGGGGGGGAGGGGCCAAAAGGGGCCGAAAAA G G G G A A G G A A G GAA $A \operatorname{GGGGAACCGGGAAGAAAGACGAAAAAAG}$ A GACCCAAGGAAGGGGAAGAGGAAAAAATAAGAGAGAAAGGG
 AA $A \operatorname{GA} A \operatorname{G} C A G A G A G A A A A G G G G C A A G G G A G A A G G G G A A A A G G$ A GAAGGGGGGAGCAGGCCGGAGAAACACGGAAGGAAAAAACA A G G GACGGAAGGGGAACCAACCAGGGAAGAGAACAACAAAGB A GAGAAAGGGCAGGGGAATTAGAGAAGGAAACGAGAAGAGAA AA G G A A C C G A C A G A A G A C G GAGGGAAGAAAGAGACAA GAAAC AAACCAGAGAGAAGCAGAAAAAAGAAGAGGGAAGTACGGGAG
 C C A GAGAAGAGGGGGAACGGAAAAAAAACAGGACGAGAAAGBG G GAGGAACGACAAGAGGAGAGAAGCAGAGAGAATGAAAAGGG C C G A G G A A A G A A A G A A T T GAGG CA GAG GAAAA G GAAAA G G G A GAGGGACCAAAAGGAAAGCCCCAAAAGGGGAAGGGGGGAAGA G GAAAAGAAAGAGGCCGGCCAAGGCAAAAAGGCAAAGAAGAG G G G A G A A G A C G GA G G G G G A A A A A A A A A A A A C C G GAAA $A$ A G A G GAA $A \operatorname{A} G A G G A A G A A A A G G A G A G G A A A G A G A A G G G A G A G A A G A$ A GACATAGAGAGGAACGAGGAGGAAGGAGAAAGGGGCCAGAA A A A G A A A A G G G G A A A A G GAGGGGAAAGGAACGCCAAGBACCC AAGGAAAAGGAAGGCCAAAGCAGGCCGGAAAAGGAGAAGGAC G G G G G GAGAAAGCAGGAGGGGACCAAACGGCCAGGGGGAGAA
 $A C G A G G G A G A A G G A G G C C A A A A A A G G G A G G A A A A B A A G G G G G$ AAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAACC G G G G G G GA $\operatorname{l}$ GAAAGCAAGAAGGAAGGGGGGGGGACCGAAAAG GAAGGAAAGGAAAAGGAAACAGACAGAGGGGGCCGGGGACAG $G G A A G A C C G G G G A A A A G G A A G A G G A A A A G G G G A A G A C C G G G G$ $G G A A C A A G G G C C G G G G G G A A G G G G G G C C A G A A C C G A G G A A A A$ AAAAACCCGGAAGGAGACCCGGAACCAACCAAGGGGGGAGAA A G A A C C G A G A A A G G A A G G G G G G C C G G C C A G G G G G A C G G G A G G A GAGGGAGGGAGGAGACCATAGGACGAAAAAAAGAGAAGAAG G GAGGGGGCCCCAAAAGGAAAGGGGGCCGGCCGGGGGGAAGA $A G G G A A A A G G G G G G G G G A A A G G A A G G C C A A G G G A A A A G A A A G$ GAGGGAAGGGAGGAGGCCAAGGTTGGGAGGAAAAAAGGAGAA A A A A G GC C A A G G G G A A G G G G G GA GAGAGAAAACCA A A A A G G G GGAAGGCCACGGAGAAAGCAAAAGCGGAGAAGGAAGAGGGGG

A GAAGGGAAGGAAAAAGGCCCCAACCAAGGGGGGAGAGAAAG G G GAGAAGAGACGGCGGAGGACCCGGGAAAAAACAAAA GAAA A A G G CA $A G G G G G A A G A G G A G G A A C G G A A A G G G A A A G G G G G G G$ G GAACCGGAAAAAAAAGGGGAAAAAGGGGAAGCCCAAGAAAA G GAA $A \operatorname{GAA} A C G A G G C C G G G G G A A A A A A A A G A A G G A G A A G G A G$ G G G A G G G G A A G G G G C C A A G G G G A A G G A A A A A A G A G G A A G G G A GAA A A G G G GAGGGAGGCAGAAAGGCCGGAAGGGAGAAAGAGG G G G G G A A A G G G C G G G G A GAGGGAAGGAGAAAGGGGGAAAAAA
 $A C G A A C A A G G A C A G C C G G A T G G A G A G A G A G G A G A A G G G A A G A$
 $A G G G G G G G A A G G A A G G A G A G A C C C A C G A G G A A G G A A G A G A A G$
 G G G GAGCCAGGGGGGGGGGAAGAAGGAAAAAAAGAATAAGCC G G G G G GAAAACCAAAAGGGGATAAAGAAGGAAAAAAGGCCGG GACCGGGGAGAGGGAAAACCAAGGGGAGCACCAGAAAAAAGAA
 A G GACCAAAAGGAGGGAAGAACGACCGAACGAGAGGAAAAAA AAGGAAGGAAAGAGAAAAGGCAGGGGAAGGGGGGGGABAACC C G GAA A A GAA $A \operatorname{AGGGAGAAAAGGAAAACCAAGGGGGACAGGGA}$ GAAAAAGACAAAGACAAGGAAGAAGGCAGGGAGGGAAGAGAG A GAAAAAAGAGGAAAGAACCCAAAGAGAGAACGGAAGGGAGG GGCCAAAAGGAGCCAAGAAACAGGAAAGAAGAAAAGGACABA G GAGGGCAAGAGGAGAAGGAAGGAGGAAAAAAAGCCAAGGGG A GAA $A$ A $\operatorname{A} G G A A C A A C C G G A A A G G G G G A A A A A G C G A A A G A A A A$ A GAG G A A A CA G GAAAAGGGGAAAGTAGAAGAGAGAGCCCAAA G GAAAAGGGGCAGGACAGGAAAGAGAGAAGAAGGGGGAGAGG G GAA A A A A A A G G G G A A A A G GAAAAACAA GAAGGGGGGAA GGGG G G G A G A A G G G G GAAAAACAGGAGGGAAAAAAAAGGGAAACCGG
 CAAA $A \operatorname{G} G A A G A A G G A A A A A A G G A A A A A C G G A C A A G G G G A G G G$ ATAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACCAAGG
 GATAAGAAAGAAAAGGAAAACGGAGAAGGGAAAAAACCGGGG A ACCACAACAAGTTAAACGACCAAGGAGAGAAGGGCAAAA GA A G A A C G A A G G C C A A G G G G G G A G A GA A A A G GAA A A G G A A G G G G GAAGCCGGGGGAAGAGAGACGAAAGGCAGGGACCGGCAAGGG A A A A G G G G G GA A G GCAAC G GAA G GCCAA G GCC GA G G G G G G G G G G G G A GAAAACCCGCACAAGGGAGGAAAAAAAGAAAGACAAG A G G GCCCCAAGAGAAGCCATAGAAAAACCAAAAAAAAAATAA GAGAAAAAAAAAGAGGAAAGAGGAGAGGAGAAGAAGAAAGAA CAAAAGGGGAAACCGGCCAAGAAAGGGCACAGGGAGAAAAGBG
 G G A A A A G G G G G GAA $A$ A $A$ G A ATTACACCAAAAGCCCCAAAGAA G GCCGGACAGAGGAAGAAACAGCAGGGACCGGGAAAGGAAAC G G T T A A $\mathrm{T} G \mathrm{G} G \mathrm{GA} A \mathrm{G} G A A A A A G G G G A A A A G G A A G G G G A A G G A A A A$ G G A A G G A A G G A A A G G G G G G G G G G G G G A G G A G G G A A G C C A G A A A A G GAAAACCAGGAGGGGCCGGGGATAGCCGGAGCCAGAAGA ACAACCAAAAGAAAGGAGGAAAAGAGAGAAAAAAAAGGAGAA

 A G A A TAAAAAGGAAAAACAAGGAGAGAAGGAAAAGAAAAAAA $G G A T A G G A A G G A C C C G G G C C A A A A A G G G G G G G A G G G A A G A A A$ AA $A G G G G G G G A A A A G G G G G G G G A A A A A A G G A G A G G A G A G A A A$ $A G G G G A G G G G A A G G A A G G G A A A G G G A G A A G A C A A G G C C G G G G$ G GAAGGCAGGGGGGAGAACCGAGGAGGACCAAACAACABAAA A G A A A A G G T T G A C A G G A A A G A A A A G GAA A G C G GA G GAA T TA A A A G G A A G G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A A AAAACCAAGGGGAAAACCAAGGAGAGAGAACAGAAAGGGGAC

AACCAAAACAAGACAAGGCACCGGAGAAAAGGAACCGGAAAA
 AA $A G A A G G A A C C G G G G A G G G A A C C A G A A A A G G A A A A C C G A A A$ A G G GACGGGGGGGGCGCAGAGGAAAGAGAAGGCAGAGGAAAA A A G G G GCCAAGGGAAGAGCCACACCAAAAAAAAAGGG
GCAGAAGGGCCAAGGGGACAGGAGGAACCAACCCCAAGAAA AA G G A A A A A A G GAAAACCAGGGGGAACCCAGAAGAAGAGAGG $G G G A T T G A A A A G G A G G A A A A A G G A A G G G G G A A A A G A C C A A A A$ G G G G G G A G A G G G G G G G A A A GAGAAAAAAAAGGAGAAAA GAAA CAAGGGAAAAGGAGAAAATTGGAGACAGGAGGCCAACCACAA A ACCACAAAAAAAACCGAGGAAGGAAGGGAGGAAAAAAAAAA $G G A A A A A A A G G A G G G G A A A G G G A A A G G A A C G G G G A T G G A G A A$ A A G G G G G A A A A G A G C C A A A A G G G G G G A A A A G GAA $A$ G A A G G G A GAAGGAAGCCAAGGGGGGAAAAAGCCAGAAAAGGAACCCCGG G G G GAAAAACGGCCGGAAAAAAAAAAAACCAAGGGGAGACAG A GAAAAAGAAGGAAAAAAAAGGGGAAAAGAAGGGGGAGGGCC
 CAA A G G G A GAAAACAAGAAGGGAAGGGGAAGGGGAAGAAA GA $A C G G A G G G A C T T G G G G C C C C A A G G C C A A G G G G A A G G A G A A G A$ G GCGGGACGGAAGAGGATAAGGAGAGAAAACCCAAAGGAAGAG G G G G G G A A C C G G G G G G G G A A A A $\mathcal{A} G G G G G G A G G G A G A A G A A A G$ A G G GAAAACCGAGGAGGAAGGAGGGGGGAAGGAAAAAACCBG
 A G A A G A A A GAGGAAAACGAAGGGGGGGAGGAAAA GGGAAA G G A A G G GAGAGGAGGGAAGGAAAACAAGAGGGGGGGGAAAAAGAG GGAAGGCCAGAGAAGCGAAAAAGAGAGAAAAGAAGGAGAAAA T T TAA $A \operatorname{GGAAAAAAAGAGAGAGGGAAGAAGAGGGAACCAAGA}$ A GAAAAGGGGCCGAGGAAAAAACCCACCAAAAAAAAGECATT A GCCTTGGGCAACCGGGGGGGAGAGGAAAGGAGAAGAAAAGA G G G GAAAGGGAAGGAAAGGAGGGGGGAGAAGGAAAAAAAAAA A GAAAGCAAAAAAAGGAAAGAAGGAAAAAGAAAGAAGGAA GA G GAAAAGACCGGGAAATTGGGGAAAAGGGGGGGGAAGAAAGA A A G G G G A G A G G G G G C C G A A G G G G G A G G A A A A A A A A A C C G G G G GACAGAGAAGGGGGGGGGGCGGAAGGGGAACCCCCCGAAGGA A G GAACAAAAAAGGGGACGAAAGAACAAGAAAAA GAGAAGAG A G G G T A A GAG GAA A A GAC GAA G GAAAAAAGGAAAAA GAA GAAT GAGAAAAAAGAAGAGAAAGGAAAGAGGGAAGGAAATAAGAGG G G G G GAAAAAGAACAAAAAAGGAAGAGACCCCAAACGGAAAA G G A A G G A A A A G GAA $A \operatorname{G} G A A A A C C A A C C A A G G A A A A A A A G A G G G$ G G G GAGCCAAGGCACCAGAAGGGAAAGAACCAAGACGGGGGG AAAAACGAGACCGGGGGGGGGGAGGGAAAGAGCGAAAACAAA A A A A G G A A A A C A A A G G G G G A A C G G A A G G A T C G A A A A A A G G C C AAGGAAAAGAGGAACCAAGGAGGGAAAGAAAGAAAGAAGGGA A G G G G G GAGGACAAAAAAAAGGAAAAAGGAGAAGGAGAAAGAA A GAAGGAAAGCCAGGGCCAACAGATAGAAAAAGGGAAGAGCC G G G G G G A A C C G G A A G A G A G A G G G A T T T A A A G G A GA G G A C A G A G G C C G G G G G A G G G G A G A A G G G G A G G G A G CAA A G A A C A C C G G G G ACTAAAGAAAAAAAGGAAGGAAAAAAGGAAGGAAAAGAAACC CAGGAAGGACAGGGAAGGCCAAAAGGGGGGGGAAGGGGAAAA
 TAAAAAAAGGAAGGGGCAACAGAAAAGGCCAGAGCAAAGGAA G G A A A A A A A A G GGCACAGGGAACCGAAAAACCACGGAACCAA G G G G G G G G A A G G A A A A A $\mathcal{A} G G G A A T A A A A G G A G G G G G A A A G G G$ AAAAAAAAGGAAAAGGGGAGGAGGACGGGGGGAAGGAAGAAA AAAGGGAGAAGGGAGAGAACAGACGAGAAGGGGGGAGAATAA C C G G A A A A C C A A G G G G G G CAGGGGAAAGCCAAAGGAGGAAAA CAGGAAGAATAGGGAAAAAGCCAGAAGGGAAGGGGGACBGAA $G G A A G G G G C C G G G A G G A G G G G G C C A A A A G G A A A A A G G G A A G A$ G GAA A G G GCCGGAAGGAAGGGGGGAGGAGGGACAGAGAAACA

C C GAGGAAAAGGAAAAGGAAGGAACCGGAAGAGAAAGACAGA G GAGAAAAAACCAACCGGCCGAGGAAGGAGGAAGAAGAGGAG
 G GAGAGGAGGAGAGGGGAGGGAAAAGGGAGAAAGGAGGCACA ACGGGGAAAGGGAGAGGAGGAAAGGAAGGAGAAAAGGGAGGA G G G G A A G G A G A G C C G G G A A A G G A G G G G G C C G G A G A G G G A G A A G GCCGGGAGGGGACGAATGAGAACAAAGGAAGAAGGGGCCGG $G G A A G G G G G G C C A A A G A A A G A G G G A A G G G A G G A A A A A A A G A C$ ACAAAAACGGAAGGGGAAAAAAGGCCGGAAGAGAAAGGAGAA G GAGGGGAGAACAAGGGGGGCCAAGCGAAGGGAGGGGGAGGG G GAGGGCCGGAAAGGAGGAGGGAAAGGACCGAAAAGGGAGAG A GCCGGAAGGGGAAAAAGTTGGAGGACCAAGGGGGGAGAAAC C G G G G GCCACAACCGAAAAAGGGGAACAAGAGAGGGGGAAAC T T C C A A A C C C G G G G A A G GAAAA A G C C G G GAGAG GA GA G GAA A AAGAAAGGAACCAGGAAGAAGGGAAAGGGGAACCCCAAAAGG G G GCA GAA A A G GACGAAAGGAAGAGAAGAAAACCAGACAAAA $C C G G G G G G G G C A C A C A G A C C G G G G G A A G G A G G G A G G G G G G G G$ AACCAACAGAAGAAAAGGGAAAAAGGAAAGCAAAGGGGCCBG $C \subset C C A A A G A G A G A G G G A A G G A A G G A A G G G G C C A A C C G G A A A A$ G G A A A A A A A A G GAACCGGTTAAAAGGGGGGGGAAAAGGAAAA G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A C C A A G G A A G G A A A A G G A A A A G G G G G G G G$ AACCAAAAAAGGAAAAAAAAGGGGGGGGAAAAGGGGAAAAAA $G G C C A A G G C C G G A A A A G G A A G G C C C C G G G G G G G G G B A A A A G G$ G GAA A GAACCAAAAGGAAGGAAGGCCGGGGGGAAGGCCABAA A A G G G GCCCCAAGGAAAAAAGGGGGGGGAAGGGGGGAAGAAA G G G GAAAAGGGGGGGGAAAAGGGGGGAAAAGGGGCCAAAAGG AA $A G A A G G A A G G A A G G A A A A A A G G A A G G A A A A G G G G A A G G A A$ AAAACCGGAAAAAAGGAAAAAAGGGGGGGGAAGGAAGGCCGG A A T TCCGGGGCCGGGGAAAAGGAAGGAATTAAGGGAAAGGGG AAGGGGGGAAGGGGGGGGCCGGAAAAAAAACCGGAAAAGGAA G G A A G G G G G G A A A A A A A A G G G G A A A A G G C C A A G G A A G G A A G G AAAAGGAAAAAACCGGAAGGAAAAGGAAGGGGGGAAAAAAAA G GCC C G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G G A A

 G G A A A A G G A A G GCCAAAAGGAAGGAAGGAAAAGGAAAAGGGG $C \subset C \subset A A G G C C G G A A G G G G G G G G G G A A C C G G C C A A A A G G C C G G$ AA G GAA A G G GAACC G GAAAAAAGGAAAAAAGGAACCAAGGCC C C G GAACCAAAAAAGGAAGGAAAAAAGGAAGGGGAAGGAGAA G GAACCGGAAGGCCGGAAAAGGGGGGGGGGAAAAGGGAAAAA $C C G G A A G G G G A A C C C C A A A A G G G G A A A A G G A A A A C C G G C C G G$ C C G GAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTTGGGG G G G G A A G G G G G G G G A A G GC CAA G GCCGGAAAAAATTAAAAAA G GAAGGAAAAAAGGAAAAAAAAGGAAAAAAAAGGAACCCCCC AAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGBAAAA G G G G A A A A A A G G A A A A A A G GAACCCCAAGGGGGGGGAAAA G G G G G GAAGGGGAACCGGAAAACCGGGGGGCCAAGGAAGGAAAA AAAAAAGGGGGGAAGGGGAAAAGGAAAAAAGGAAGGAAAAGA AAGGAAAAGGAACCAAAAGGAAAACCAAAAAAGGAAGGCCGG G GAA $A \operatorname{GAAAA} \mathrm{~A}$ A AAAAAAAAAAAAAGGGGGGGGCCGGAAAAGG G G A A A A A A A A G GAAAAAAAAAAAGGAAGGGGAACCCCGGGGGG $A A T T G G G G G G C C G G G G A A A A C C G G G G A A A A G G G G G G G G G G G G$ G GCCGGGGAAAAAAAAGGGGAACCGGAAAAAAAAGGGGAGAA G G G G G G A A G G G G G G G GCCGGAAAACCGGAAAAAATTAAAACC AAAACCCCAAGGAAGGAAAAAAAAGGGGGGAAGGGGGGGGGG
 G GAACCAAGGAAGGGGAAAACCGGAAAAAAAAAAGAAAAACC A A G G G G G G A A G G A A G G G G G GAA A G G GAAGGGGAAAACAAAAA G G G G G G G GCCAAGGGGAAAAGGAAGGGGAAGGAAGGAAGAAA

G GAAAAGGAAAAGGAAGGGGAAGGGGCCGGGGAAAAGAAAAA G G G G A A A A A A A A G G G G A A A A G G G GAACAAAAAGGGGGGTTGG G GAACCAAAAAAAAGGGGGGAAAAGGAAGGCCAAGGAAGAAA G GAAGGGGCCAAGGGGAAAATTGGAAGGAAAAAAGGCCGGCC A A A A A A G GAAGGGGGGAACCAAAAAAAAGGCCAAGGC
C $G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAAACCGGGGGGGGGGAAAAGGAAAAAAAAAGG G G G G G GCC G G A A G G G G A A G G G G A A G GAA G GAACC G GAA G GAA GGAAGGGGAAGGAAAATTAAAAGGAAAAAAAAGGAAAAGGAA A A A A A A A A G GAAGGTTAACCGGAAGGAACCCCGGAAGAAAAA G G G GAACCAAAACCAAGGAAAAAAGGAAGGGGAAGGAAAAAA G GCCGGAAAAGGAAGGAAGGGGAAGGGGGGAAGAAAGAAAGA G G G GAAAAGCCAACGACAGGAAAGGGAAGGAAAGGAAGAAAG GA $A \operatorname{A} A G G G G G G G A G C C G A A A G G C C A G G A A G G G G G G G A G A A A A$
 G GAAAAGGAAAAAAAACCGGAAAAGGAAAACCGGAAGGAAAA AACCAACCTTGGGGAAAAAAGGAACCAAGGAAGGGGGGAGAAA G GAAAAGGAACCAAGGGGCCAAAAAAAAGGGGCCAAAAGGAA A A A A A A G G A A G GAAAAAAGGGGAAAACCGGGGAAGGGGAACC
 G GCC G GAA A G G G GAAAACCGGGGGGAAGGAAAAAAGGGBAACC GGCCAAAAGGAAGGAAGGGGAAAAGGAAGGAAGGAAGGAAGA AAAAGGAAGGCCAAAAGGGGAAAAAAAACCAAGGGGAAGGGG A A G G A A A A A A G G G GAAAAAAAAGGCCGGAAGGGTTAA G GAAA A A A A $\mathcal{A} G A A G G A A A A G G G G G G G G G G G G G G A A A A G G G G G A A A B G$ G GAAGGGGGGAACCAAGGCCGGAAGGGGAAAAAAGGCCAAAA A A G G G GAAAACCAAAAAAGGAAAAGGGGGGGGGGGGGGAAGG C C G G G G G G G GAA $\operatorname{l}$ G $\operatorname{GAAAAAAAAAAAGGAAGGGGAACCAAGGAA}$ G GAAGGCCAAAAAAGGAAAAAAAAAAAAGGGGTTAAAAAAAA A A G G G G A A G GCCAAAAAATTAAGGGGAAGGAAAAGGAAAAAA AAAAGGAAGGGGGGAAGGGGAAAAAAGGAAAAAAGGAAAAGG
 AACCGGGGGGAAGGGGGGAACCGGGGAACCCCAAAAAAGGGG A A G G A A A A G G G G A A G G G G G G G G G G G G A A A A A A A A A G G G G G G G A A G GCCAAAAAAAAAAGGCCAAAACCGGGGGGAAGGGBAACC
 $A A G G A A A A G G A A G G G G A A G G A A C C A A A A G G G G G G A A G G G G G G$ A A A A G GAA A GAA $A \operatorname{A} G A A A A G G G G A A G G C C G G A A A A A A G G G G G G$ G G G G G G G G A A G GAAAAAAAACCCCAAAAAAGGAAAAAAG GAA G G G G G G C C A A G G G G G G A A A A A A C C A A G G G G A A G G G GAAAC G G
 AAAACCCCCCAAGGAAAAGGAAGGAAAAAAGAGGGAAAGGGG GGCCAAAAGGAAAAGGAACCCCAAGGAACCGGAAGGGGGGAA
 G GAA A GAACCGGGGGGCCGGAAGGCCGGGGGGAAGGAAAAGA
 A A G G G GAAAA A $A \operatorname{AGGAAAAAAAGGAAAAGGAAGGAAGGGAAAAA}$ A A A A G G A A A A A A G G G G A A G G A A A A A A C C G GAA $\mathcal{A} G G G A A G G G G$ AAAACCGGGGGGAAGGAAAAGGCCAAAAAAGGGGAAAA GAAA G GCCGGAAGGAAAACCGGAAGGAAGGGGGGCCGACCGGAGGG A A A G A GAAAAGAGGAACCGAGGGGAGGGACAAGGGAACAACC
 A G GA $\operatorname{G} G A A \operatorname{A} G A A A G G G A A A G G G G A C A G A G G A A A G A A G G G G A G$ C CAAA $A \operatorname{G} G A A G G A A A A A A G G A A A A G G G G G G G G G A G A A A G A A G$ AAAAAGGAAAAGAGGGAAAGCCGGAACAGAGGAAGGAAGAAA G GAAAACCGGAAGGAGAGACAAAAGGAGGGGGAGGGGAAAAA G GAA A GAATTGGAACCGGCCAAAAGGGGGAAAGGGGGGAGAG GA $\operatorname{G} G A A C C A G G G A G A A G G A A G G A A A A G G G G A A C C G G G G A G A A$ A A A GCCGGAGAAGGAAGAAAAGGGGGCCCAAAAAGGGACC GA GAGGAAGGCCAAGGAAAAGGGAAGGGGAGGGGGGAAGGAGAA

GAAGCAACAAAGGGGGGGGAGAGGGGCCACAAGAGAAGATAG A GAACCAAGGGGGAGGCAGAAGGAGGAAAGAACCAGGAAAGG $G G C C A A G G A G G A A A A A G G A A C C A A G G A G A G G A G G T T A G A T G A$ G G G G G G A A G G G A A G G G G G G G G G G A G GA GAAAA A A A GAA G G A A $C \subset G G G G A A A C G G G G A A G G A A A A G G G G A A A A G G A A G A G A A G G G$ A A A A A A G G A A G G G GAA $A \operatorname{Ag} \operatorname{AGGGAAAAAAGCGAAGATGAACCA}$ ACGGGAAGGGAAAAGGAACCAAGGAAACGAGGGGAAAAAAGG A A C C A A C C C CAA A A GGAGAGCCCCCCAAAGCCCAAAGAGCGA A G A G G G A A A G A G A A A A G G A G A C A C G G A A A A A A A A G A A A A C A C AAAATAGGAACCGGGGAAAAGAAGGGAGAAAACCGGGGAAAA G G G GAA $A \operatorname{GGG} A A A C G G A C T A G G A C G A A A G G G G A A G G G A A A A G$ G GACGAGGGGAGGAAAGGAAAAAGGGGAAAAAAAAACAAGGG CAGGAAAAAAGGCCCCAACCAAAAAAAAGGGGGGAAGAAAGG G G G G A A G G C C C C A A G G G G G G A A A A G G A A A A G G A A A A G G G G G G A A A A A A G GCCAAGGGGAAGGGGAAGGCCCCAAAACCAAGGCC GGCCGGAACCAAGGAAGGCCGGAAAAAACCAGAGGAGGACAAA AAGGAGCCGACCCCCCGAAAAAAAAACCGGGAAACCAAGGCC A G A G A A A G T T G G G G G G G G A G G A G G G A G G G G A G G G A A C C A A A A GAGAACAACCAAGGAGGGGGGGCCAAAACCAAGGAAAAGGGG G GAAAAGGGGAAGGGGGGAAAAAAGAAAACAAGAACABAAAA GAGGGGGGAGGGAAAGGACAACGAGGCAAACCAAAAGAGGGG $A C C C C C A G A A G A G A G A G A A C A A G A G G A A C C A G G A G A G G A A G A$ G G G G G G A A A C A G A G A G G G A G G G C C A A G G A G A G A A G G G G C C G G G G A G A G A A A A G G A A G G A A G G G G G G G G C C G G C A A G G G G G A G G G A A G G G G A A A G G G G G G A A A G G G A A GAC C C CA G GAG A A GAA A G A G G GAA A G G G A A G GCC G G A A G GAAAAGGAAACCAGAGAGGGAGG A A G GAAGGCCGGGGAAGGCCGGAAGGGAGAAAACGGCAAAAG CAATAAAAAGCCGGGGAAAAGACAGGGAGGAGGAGAAACAAA A GAAAACCGAGACCAGAGGAAAACGGAAAGAAGGAAAGGGGA A G G GAAAA $A \operatorname{A} G \mathrm{G} G A A A A A G A G A G G G A A A A A A G G T T G G A G A A A A$ G G C C G G G G G A G A G G A A G G A A G C A A A A G G A A C C A A G G A A G G C C AAAACCAGAGAAGAGAAGCAGAAAGGTTCCGACCCCGAGGGG GGACCCAGGAAGGACCAGCCAAGGAAGGGAGGGGAGAAGAAA
 G GAGGAAAACGAGAGGCGAGGAGGGACCGAGGCCTTGAAAAA AC G G A A A G A G A G A G G G A A A A G G A A A G A A A A G G C C G G G G G G A A A A GAA A GAGGGAGAGGACGGAGGGAGAGGGGGAAACAAAGAA


 G GAA $A \operatorname{GGG} \operatorname{G} A A A A A G A G G G A G A G G G G G G A G G G A G G G G G A G G G G$ A A C C G A G G G G A A A A G G A A A G C A A A A A A A G G G G G G G A G G G A A $G$ G G G GACCAAACCGGCCAGAAAGAGAAGAGAGGGGGGGAGGGA G GAGACAAGGGGACGGACCCAACCAGACGGCCAAGAGAGGAG GAAGGGAAAGGAAGACAAAAAAGGGGGGAAAAAAATGGAACC A G G G G G G A C C G G G A A G G G A A G G C C A GCCACCCCAAGGGACCC ACGGCCAAAAGGCCGGAAAGGGGGAAAAAAGGGGAAAGAGAA

 G GCA $\operatorname{G} C A G G G C C A A C C G A G G G G T A A A G A A G A G G A G G A A G G G G$ A A G G GAGGACAGACAAGGGGAAGGAGAGCAAAGGGGAAAAAA GGCACCAGAAAAAGAATAGGAGGAGCGGAAGGAAAAAGAAAG GAAA $A$ A A A A G A A A A A A A A G GAAAAAGAAAGATCGGGAACAGA GAGGCCAAAAAAACAAAAAGTAAAAAGAGGCCAGGACCGGAC A A A A A A A A GAA $A \operatorname{G} G A A G A G G A A C C A G G A A C A G A A G G A A G G T T$ A G G G A A A G A A G G G A C C A A G G G G G G G A CAAA A G GA G G G A G G A A G G G G G GA GAGACTAAAATAAAAAAGGCCGGGAAGAACCAGAA C C A A G A A GTTCAGAGGAAGGAAAAAAGGAAGGCCGGAAAGAA $A A G G G G A A G G A A A A G G A A A G A G C A G G A G G G G G G G G G A A A A A A$

G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGCGGGAAGGGGGA G GAACCACAGACAGGAAGGAAGGAGAGGAGAGCCGGGGAAGA AAAAGGACCAAGCCGAAAAAGGGGAAGAACAGGAGAGGAAGA A A G G GA $A \operatorname{GAA} A A G G G G A A G A A G G G A G G G G A A A G G A G G G A A G A$ $A G A A G G G G G G G G A G A G C C G G A G G G G G A A A G A A G G G A G$
G G A C G C C G G A A A G G A G G G G A G G G G G A G A G A A A A G G G A A A G G CAAGCCAGGGGGAGCCGGGGCAAGGGAGCCAGGAGAGAAAGA AACACAGATTGAAAAAAAGGGGGGAGGAGGACAAAAGGAGAA G GAC GAGAAAGGAGCCAAAAAGAACCGAAGAGAAGGAGAGGG AAGGAAGGGGAAAACCCAGAAAGAAAGGAGGGGGAAGAAAAA
 GGCCAAGGAGGGCCGGAAAACCGAAAAGAAAAGGAAGAAAAG A G G G G GACGGAACCGAGAAACCAAAAGACACCGGAAGAAAAG $G G C A A A T T G G A G A G G A A G C C A G A A A A G A C C A A G G A G A A A G A G$
 A G G GAAAGCACCGACCGGAAGAGAGAGGAAAAGAGAAGAGAA AAAGAAGGCCGGGACCAAAGAAGGGGCCGAAAGGBAAAAAGG A A A A G A A G G A A A G G G G G A G G G G G G A G G A A A G G A A G G A A A A G G $G G T T G G A A A A G G A A G G G G A A G G G G G G G G C X A A G G G G G G G G G G$
 $C \subset A A G G A A G G A A G G G G A A A A A A G G G G G G G G A A G G G G G G G G G G$ AAGGAAAAAAGGAAAAGGAAGGCCAACCAAAAGGAAAAGGGG G G A A G GAAAACCGGAAGGCCAAGGGGAAAAGGAAAAGAAAAA G G G G G G C C G G G G A A G G A A G G A A A A G G C C A A G G G G G G G G C C G G G G A A G G G G G G G G G G G G G G G G A A A A A A A A A A A C C A A G G G G A A G G G GAAAA $A \operatorname{A} A A A A \operatorname{A} A A A C C G G A A G G A A G G A A A A A A G G G G G G A A$ AAGGCCGGAAGGAAAAAAAAAAGGAACCGGGGAACCCCAACAC C C G G A A A A A A G G A A G G G G G G A A G G A A G G G G G G A A A A A A G G G G A A G G A A G G G G G G G G A A G G A A G G G G A A G G G GCC G G G G A A A A A A AA $A G A A G G G G A A A A A A A A G G G G G G G G G G A A A A A A A A A A A A G G$ G G G G A A C C G G C C A A A A $\mathcal{A} G G G A A G G G G A A A A A A G G G G G G G G G G$ AAGGGGGGGGGGAAGGAAGGAAGGCCAAGGAAAAAAAACAAA G G GAGGAACCGGAAGGTTAACCGGAAGGGGGGAAAAGECCAA $A G A C G G A A A A G G G G C C A A G G A A G G G G A A A A A A G G A A A A G G A G$ A G G A A GCCCAGAGGAGGGAAGGGGGGGACCGGGGAAGAAAGG G G A A A A A A G G G G G G G A A G C G C C A A A A A A A A A A A GACAAACT T G GAGGACCCCACGGAGAGCAGGAAGGGGAAGAGGAGGGCCCC AAGGGAGGGAGGAAGAAGAAAAGAAAGAACAAGAAAAATAAG CACCAGAAAGGGGGAAAAAGAAAAGAAGGAAGAAGGGGAAAA G G G GAACAGGAGAAAAAACCGGACAGAAAGACAAGGCCBGAA AAACGGAAAAAAAGAGAGGGGGGAGGAAAAAGAAGAAAGAAA A A A A G G GAACCCAGCCGGTTAAGGGAGAGGCCAAAAAAGCAA AAGGCCAAGGCCGGGGAAGGAAGGAGAAGAGAAGAGAGAGAG A A A A G GAACC GAACGGACGAGGGAAGAAAGAGAAAGTXAGAC GAAGGAGGACTTCCGGCCAAGGGGGGGGGAAGGAGGGGAGAA G GAAAAGGGCCAGGAAAAAAAGAGGGGGAAAAAAGGGGAAGAG CAGGGAAAAAGGCCAAGAAGGGGGAAAAAACCGAAACAAGCC AAAGAAGACCAAAAGGAAAAAACCCCAAGGGGGGAAAGAGAG G G G GACGGAAGGGGCAAAGGAAAGAGGAAACCGGGGAAAACAA A A A G A GAAAAGGAGAACCAGGGAGCCAAGGAAGAGAAGCCCG C CAG G GAGCCGGAAGGGGCCGGCAGGAAGAACACAAAGACAA CAAAAAAA $A$ A AC GAAAA $A$ A $A \operatorname{A} G A A C C G G G G A G G A G A A G G G A A C A$ G G G G G G G A A A C C G C A A G G A A A A A A G A GAAAAAA G GACAGGGGG GAGGGGAAAAAGCCAAGGGGTAACAGCCAAAACAGGAGAAAG AAAGAAGGAAGGGGGGCGAAAAAACAATGCGGAAACAAAGBA AACCAAAAAAGGAAGGAAAAAAGGCCGGGGGAAAGGACAAAA G GCCGAGACAAGGGAACACAGGGAGGAGAAGGAATXGGGGGA $A C G A T T G G A A A A G G A A G G A G A A G G G G A G A A G G C A A G A G A G G G$ GAGGAAGGAAAACCGGGGAAAAGGGAAAAGAAGGGGACAGAC

A A GAAAGGAAGGGGGAGAGGGAAAAGAACCAAGGAGACAAAA AAAAGGAAAGGGAACCGACCGGCCCCAGGAGGAAAAGAGAAG GAGGAGAGAAGGAGAGAGAAAAAACCGAGGAAGGGAAACCCC GAGAGAAAGAAGGGGAGAACGGGAGAAAGGAAAGGACCCC A A AAAAGAAGCAGGGGGAGGAACCAAAACGGAGAGGCAAAGGGG A G G GCCAGGCGCACGAACGGACGGCGGGAGAACCCCAAGGAA C CAAAAGGAACCGGGGAACCGGGGAGGGAGAAGGAAAAAAAA GACCAGGAAACAAAAAAAAAAAGGGGGGACAGGGACCCCCGA A G A G G A T A G G G G A G G G A A A A G G A GCC G G T T C C G G G G C C G G G A

 G GAAAAGAGGAACCGAGGAAGGGGGGCCAAAACCGGAAAAAG GAGACAGAAAAAAAGGGGAAAAACACAAGGAAAAAGGAAAAA $G G A A A A A A A G G A G A A A A G A A A A A C C C G G G G A C A G C C A G A A G G$ AA G GAAAAGAGAGAAAGGAGAGGAGGAAAGGGGGGGAAAAAA G G G G GA $\operatorname{G} G \mathrm{G} G A A C C A A G G G A G G A C G G A A G G G G G G G G A A G G G G$ A A G GAGCCTTAGGAAGCAAGGAAAAAAAAACCGGAGAAAAGG AAAAAGGGAAAGAAGGAGGAGAAAAGCCGAGGGACAAGAGAA AAGGGGCCAAGGAGGGAAAACCAGACGGGGGGAAAAAAAAAC ACGGAGAGAGGAAGAGAAAGGAGACGCCACGGAGCCGBAABA GACCAACCGGAAAAGGGGAAAAGACAGAGAAGCCAAAAAAGG A A G GAAAAAACGGGGGAGAAGAGGAGGGGGCCAAAAAAAAGG A A G G A A A A G GCAGAGGAAGGAAAATAAAGGGGGGCCGAAGAG A A G G G A A A G A G G A G G G A A C C G G A G GAA A G G C C A A A A G G G A G G A GCCGAGAAGCCGGAGGAAAGGAAAAGAAGAAAAACAAAGAG AAACAGAGAGGAAAGGAGGAGAAAAAAAAAAAGGAACAAGAA AAAAAAAGACAAAACCGGAAAAGGCCAGAAAGCCGAAGAAAA GCAGACGGGAGGGAAGGGGGGGAAAAGGGGAGCCBAAGGGCC AAAACCAAAAAACCAAGGGGGAAGCAAGGAAGCCCCGAGAGG G G GAGGAAGGGGAAGGGACCAGAAGGATAAGGACGGAAGGCC A A A A A A G G A A A A A G CAGGGGGAGAGACAAGGGAAGAAACCGG AACCGGGAACGGTTTTAGTTACAGAAGGAAACCAAAGGAAAA G GCCAAAAGGAAAAGGCCGGAAGGGGAGACCCAAGGAAGGGG G G G G C A G G A A C C G G G G G G A A G G G G G GAACC $\mathcal{A} G G G A G A A A A A G$ A A A A A ACCCCAAGGAAGGAAGGAACCAAAAGGAACCGGGGAA
 G G G GAAAAGGGGAAAAACCCGGGGGAACGGAAACGGAAAGAG G G G G GCGGGGAGAAGGAACCACGGAGGGACGGAAGACCAAGA A A A G A A A GAGGGGAAGCAAGGAGGCAGAGGAAAACCAGAGGG ACAGCCGAAAAAAAGAGAAGAAGGGGAGCCAGGAAGACAAGG G G GAAAAAAGAAGAGACAAAGGAGAAGGAGCAAAGAAAGGGG $A G G A A T G G G G A A G G A G A A G A G G G G G G C C A G A C A A G A G A A G G A$ AAGAAAAATTGGACAGACGGGAGAGAAAAGAGAAGGGGCCGG A A A A G G GAGGCAAAAACCGGAAGGAAAAGGGGGGAGAAAGGG G G G G G A A G G G A A G G A G A A G G GAGAGGAAGAAGAGGGAA GAAA A G GAGCAACCAAGGAAGGAAAGGGAAGGGAGGAGAGGAGGAG ATAAGGCAGGAAGGAAAGAGAAAAAAAAGGAGAACCGGAGAA A A A A GACCCCGGCCGGAGAAGAGGGGGGGGAACCGGAAAAAG
 G GACACAGGGGAAACCGGCCGAAAGGACGGAAGGAAGGGGGG A A A A G GAAAAGGGGGGAGAACCAGAGGAGAAGAGAGAAGGGG $G G A A A A A A G G G G G G A A A A A A A A A A G G G G G G A A A A A A A A G G G G$ G G G GCCAAAAGGGGAAAAAAAAGGGGAACCGGAAAACCAAGG G GAAAAAAAACCGGAAGGGGGGGGCCAAAACCGGAAAAAAAA G G G G G G A A G G A A A A G G G G G G A A A A G GAA $A \operatorname{GGG} G A A A A A A G G C C$ T T G G A A A A G G A A A A G GAAAGGGAAAGGGAGAGGGAACAAAA G G GAA A GACCCGACCAAGGCCGGGGGGCAAGAAGGGAACAGAA CA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} A A A G G A G A A C C A G G A A G G G G G G G G A G G A A A G A A G A$ AAGAACAGGAACAGAAGGAAAAAAAAAAAGAGCAAGGGGGGA

G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAAGGGACGGGGGA GAGAGAAAAAAAAGAAGGAAAGAAGGCCAGGGAAGACCAAGA G G GACCAAGGGGGGCCGGAAAAAAAGAAAGAAGGGAGGAGAA A A GAAAGAAGGGAGGAGGCGAGGGAGGAAGGGAGAAAAAACA A G GAAAAACAGGAGAAGGAAAAAGAACCCCACAAGGG
GCCGGAGCCCCAGGACAAAGAGAGGCAGGAGGGGGGGCCGG AAGGAAAAAAAAGGAGAGAAAAGGGGCAAACCAGGGAAGGAA AACAAGACAGAAAAGGGGGGCCAAAACCAAAAAGTAGACAGG A A G A G A C C A G G GAAA $A \subset C A A A A A A A G G A A C C G A A C A G G G G T T$ GCGAAAAAGAGGGGGGCCAAGAAAAGAACGGGAAGACGCCCC
 G A A A A A A A A A G G G G G GCCTTAA T C A A G A A A A G G A G G G A A A G G G A GAGAAAAAAAGGACCACGCGGAAGGCCGGGGAAAGGGGGAG AAAAGAGGAGAGTAGAGGAACCAAAAAAAAAAGGGGAAGAAG A A A A A ACATTGGCCGGCAAAAAAGGGAAAAGGCGAGAAACBA GAAGAGACAGGGGGGGAAGGCAAGGAGAGAAGGAAGAAAAAA
 AGCAACCCAACCAAAAAAAAGGCCGGGGAAAGCCAGAAGGGG $G G G G G G A G G A C C A A G G G G A A A A G G G G A A A G A A A A C A A A G G G G$ G G C A A A A A T T A CA GAGGGAAAGGAAGAAGGAAA GAGCCAAAG GGCAAGGGGGAAGGCACCCCAAGACAGAGGAGAAGCAAGAAG GACCGAAGAAGGAAGGAAGGAGGGAAAAGAGAACAAAAAAGG GAAGGAGAAAGGGGAGGGACAAGGAGAGAAAAGGGAAGAAGC A A G G A GA G A G C A A A A A G GA G GAGAAGGCGGAGAAGAAGCCCC AA GACAGAAGGAAGCCCAAGACGGAGAAGAAGGAGGGCAGAA A GCAACGCGACAAGAGGGGAGAAGAGGAGGAAAA GAA GAGAG A GAGGGAAAAAAGGGAAGCCACAGAGGGAGAGGGAAGAGAAC TA $A$ A A A $A$ A $\mathcal{A} G C A G G A A G A G G G G A A A A G G G G G G G G A A A A A A G G$
 G GCCAAGGGGAACCAAGGGGAAAAAAAAGGGGGGGGAACCGG G G A A A A A A G G G G A A G G A A A A G G A A A A A A A A A A A A A A A A G G A A AAGGAAGGGGAAAAAAGGGGGGGGGGCCAAAAGGGGCCGGAA G GAA $\operatorname{G}$ GAAAACCAAAAAAGGAAAAAAAAAAAAGGGGGGGGGG A A G GAACCAAAAGGAAAAAACCGGAAAAAAGGAAAAAACAAA G GAACCGGGGGGGGAAAAAAAAAAAACCAAAAGGAGBATACC GAACAAACGGAGGGGGAAAAGGCCGAAGGAAGACGAGGAAAC C C A G G GACAAGGGGGGAGAGCCGGAGGGAGGAAGAGAAAAGG A A G G G GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A C A A G G G G G G G G G G G G A A A A A A C C G G T X A A$ G G G G A A A A A A G G G G C C G G G G C C A A G G G G C C G GCC G G A A A A A A G GAA A GCCGGAAGGAAGGGGAAAAAAAAGGCCGGGGAAGAAA AAGGACAGGAAAGGAGAGAGAGAGAAGGAAAGAGAGAGAACC G G G GAAAA $A \operatorname{AGGGA} C A A G G A A C C G C G A A G A A G G G A A G G G A G A A$ $C C G G A A G G G G G G G A A G G G G G A A G G G G G A A A G G A C G G G G G G G G$ C C G G G G A A A A G G G G G GCCA $\mathcal{A} G A G A G G A G A C A G A G G G G A A G A A$ A A G A A A G A A G A GAGAAAGAGAAGGGGAGGGGGAAGAAAAAAA A A A A G GCCCCCCGGGGAAGAGGGGGAAGAGAAGGGGGAAGGG
 G G GAAGCCAAGAAAAATAGGAGAAAAAAGGGGGGGGAAAAAG G G GA $\operatorname{l}$ A A A A A G G G GAGAAGAGGGGAAAAGGAGGGAAAAAACC
 GAGGGGAAGACCGGAGAAAAGGGGGGAAAAGGGGAAGAGGAA A A A G GAG $A \operatorname{AA} A G C A G G G G A G G A A G G G G A A G G A A A G G A G G G G C C$ C C G G A A G G A G A GAC G G C C A GAAA $A$ A A A G G T T G G G A G G G G G G A A AAGGAAGGACAGAGACGGGGAAAAAACCAAAAAGGGAAGGCA A A GAA A A C G G G GA $A$ A $A \operatorname{CG} G A A A A G G G G A A G G G G G G A G A A A A A A$ C C G G G G C C G G A GC G A G G G G A A A G G C C G G G G G G A A GAG G G G A A GAAGAGGAGAACGACCGGAACCGGGGGATTGGGGAAGAAGGA GAGGACAGCCGAGGAACCACAGGGGGAAGGGAAAGGAGAAGB $C \subset A A A A C C A A A G A G A G A A G A G A A A G G G G A A G A G A A G G C A C C C$

GACCCAGGCAAGGAGAGGGGGGAACCACCCGGAAGAAGAAAG

 G GAAAAGGAAGGGGGGGGAAAGAGGGAGCCGGGAGGCAAGAG $C C G A A A A A G G A G G A A A C C C C G G G G A G G A C C A A C A G G A A G G G G$ G G G G G G A A G G A A G G C C G A A A G G G G A G G A A A A A G G G C G A G G A A G G A A G A G A A A G G G A G G A A G G C C A A G G A G C C G A A G G G A G C A G G GAGAAAGGCAAAGAAAGAACAGACAAAGGGGAGGAAGGGGGG A A G G G A T T G G G G G G G G G G G A G G A A A A A A G G A A G G G G C C A A A A AGAGGGGGAGGACCAAGAGGAAGGGAAGGGGGAAAAGAAAAA A A A A G G G G G G A A G G A A G G A A A A A A A A A A G G G G G G G G G G A A G $G$
 G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A G G G GAAAA $A \operatorname{Ag} G \mathrm{G}$ G G G G A A A A A A G G G G G G G G G GCCCCCCAAGGGGGGGGAACAAA AAGGGGAAAAAAAAAAGGAAAAAAAAAAAAAAGGAAAA G GAAA AA G GAA $A \operatorname{GAA} G G A A A A G G A A A A C C A A A A A A A A G G A A G G G G C C$ A A A A A A A A G G A A A A A A G G G G G G A A A A G GAAAAAA A GAA G GA A G G A A A A A A G G G G G G G G A A A A A A G G G G G G G GAAAAAAACAAAAA A A G GAAG $A \operatorname{G} G \mathrm{G} C A A G A G G A A G A G A A A A G G G G G A C C G G A A C C G G$
 AAGGCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAGAAA G GAA A G G G A A G G G GAAAAGGAAAAGGGGAAGGAAGGGAAAGA A A A A G G A A $\mathcal{A} G G G C C A A G G G G G G A A A A G G A A G G G G G G A A C A A A$ A A A A C C G G A A C C G G C C G G C C G G G G A A C C G G G G G G A A G G A A G G C CAA $A \operatorname{GGG}$ GAAAACCAAGGAACCGGAAAAAAGGAAGAAAAA G G A A G G G G G G C C G G G G G G G G G G A A C C A A A A G G G G C C C C G G A A G G GAACGGGGAAGGGAGAGAGGCCGAAAAAGGAAAAAAGAAAGG
 GAAGGAGGAAAGAGGAGGAAAAGAGGGGGAAAGAAACAAAAA AAAAAAGGAGATAGGGAAGGAAAAAAAGAGAAGGAAAAGCAC A A A A G G A G A G G A C A G A G G G G A G A A A A A A G A C A G A G A C A A G A G A G G GAA A G G GAGAAGGAAAGAACCGGAGGGAGGAAGAGAAAG GAGAAGAGGGGGGGGGAAAAAAAAAAAAGAGGAAAAGGAGAA G GAAGGACAAAAAAGGCCGGAGGAAGGGAACAAACCGGAGAA A A A A A A G A A A G G G A G G A A G G A A A $\mathcal{A} G G A G G G A G G A G G G G G G G G$ A A A A A A A A G G A A A A C CAA $A \operatorname{AGGGGGAAAAAACCAACCAAAGGG}$ A G G GAGCAA $A \operatorname{A} A \mathrm{~A} C \mathrm{C} A A A G G G G A G G A A G A G G G G G A G G A C A A G G$ AAACCGAGAGAGACAGCAGAGAGGGACAACAGGAACACAGGA $A C A A A G G A A G A G A A A G A T A G A A G G A A G G A A G G A G G A G A G G G A$
 A A GAAAGGGGAGGAGGAAAAGGGGAAGGGAAGGAAAAAAGGG GAACACCCAACCGGGGGAAAGGAACCAATTAAAAAAGGGGAA $C \subset A A A A G G G G G G A A C C A A A A G G G G A A G G G G G G G G G G G G G G C C$ AAAAGGCCAAGGAAAAGGAAAAAAGGAACCAAGGAAAAGGCA GAAGAAAAAAAAGGAAGAAAAACCCCACGCCAACGAAAAGGG G G G A A A A G A A A G G G G A G G A G C C G G A A A A G G A A A A A G G A G G C C AA $A G G G G A C C C C G G G G G G A A A A G G G G A A T T A G G A C A A G A A G A$ A G G GACCCGGGGGAGGAAAAGACAGGCCAAAGAGAAAGGGGG G G G GACCCAGACGGACAGAAAAAAAGGAAGGAAAGGCCAGGG A A G G A A A A A A A A G G C A A A A A G G G G G G A A G GAA G GAAAAAAAA A A GAAACCGGGGAGAGGGGGTTAAAAAAAAGGAAGGGGAGAA A A G G A A G G G G G GAAAA A G GAAG GAAAAAGGAAGGCCAAGGGGGG A A A A G G G G G G C C G G G G C A A A GAG G A A G G C C G C G G G G A A A A A GGCCGGAGAAGGAAAAAGGGAAAGGAAAAAAAAGGGGGAAGA
 G GAA A G G G A A G GCAGGAGAAGGGGGGAAACCCGGGAGAAAGAG
 G G G G A A C C C C A GA G G G A A GAGAAGAAAGAAGGAAG GAA GAAA A A G GCAGGAGGGGACCAGGGCCAAAAGGCCCCAACCAAACAA

AAAAGGGAAAAAAAAAAGCGAGCAAAAAAAGGGAAAAGAAAA AACCCCGGACAAGACAAAAAAAAAAAAAGGGGGGGGTTGGGG
 G G GAAAGAGGGGCCAAGGGGAAAAGAAAAACCAAAGAGCACA A A A A A CA $\operatorname{A} G \mathrm{G} G A A G G A G G A C A G A G C A G G G G G A A G A A C$
CAAAAAGGAAGACAAAGGAACAAAGAGAGGAAAGGGGAAAG A GCCAGACAACCGGGGCCCCCCGGGAAGAAAAGGAACAAAAA G G A A G GA G A A G A G A G G G GCC G G T T A G G G G A G G G G A G G G C C G G G G G G A A G G A A G A A A A G A A A A A A $\mathcal{A} G G G G G A A G G G G G G A A G G A A$
 A GAGCCGGAGGAAAGAGGAAGGGGGGCCAGGCAGCAAGAGAG A A GACCGACAGAAAGAGAGGAGAGAAGGGGGGGAAGGGAAGA A A A G G G G A C A A G A G A G G G G G G G A A G G G G A A G A G G A A G A G G G A G G GAGAGAAGGGAGAGGAAGAGAGACGGGGAAAAAAAA GAAAA AAGAGACCAGGAAAGGAGAAAAGGCCAAGAGAACAAGGGGGG G G GACCAGAAAAGGGGAGAAAAGGGGAAGGAAAAGGGBAAAG
 ATACAGGAAAGGAACCGGAACCGGAGGAAAGAAGGGAACCGG CAGGGAAGAAAGGAGGAAAAGGACGGAAAGCAGAGAGGCCGG G GCCCCGGAAAAAAGAGGAAAGAAGGGGGAGAGAGGGGTXCG GAAGACGAGGGGGGAGACGGGAAAGAAAAAATAGGGGGAAGA G GCCGGCGCCAGGAGGAGGAGAGGGGGGGGAGACAAAAAGCA C C G G A G A G A A C C A G G G G G G G A G A G G G A G A A G G A G G G G G A A T T G G G G A C A A G G C C A A G A G A G GA G A G A A A G C CAAAA A G G G G G G A C C G A A G GA G GAGAAGGCCAGAAGGGGAAGGAGCCGAGGCCGG AACCGGGGGGAAAGAGAAAACCGAGGGAAGAGGGAAGGACAG AAAACAGGGGAGCAAAACAACCTACCGAGAGAAAAACCAAGG AACCAAGGGGAAAAAACCGGGGAAAAAACCAAAAGGAAAAAA G G G G A A G G G G G GAA $A \operatorname{GCC} C \subset C A A A A C C G G A A A A C C A A A A G G G G$ AAGGGGGGAAAAAAAACCAAAGTTGAAGAGAAAAAAGACCAA G GAAAAAGAGCCACAGGGCCAAAAGGAAGGGGGGAACACAAC AACAGGGGGGAGAGGAGGAAAAACAGAGGGAGAGGGAAGAAA GAGAAAAAAAGGGGGGAAAAAACCAAGGGGGGAAAAAAAGAA AA $A G A A C C G G G G A A A A A A G G G G A A A A G G A A A A A A A A A A A A C C$ A A A A A A A ATTCAAGGGAAGACAGAAGGAGGGGAAAAAAGGAG A A A A G G G G A A A A G G G G A A GACCTACCAGGGAACCCCGGGGGG A A GAA A G GCATTGAAGGACAGAAGAGAACAAGGGGGAGAACC G GAAGGGGGGACGAAACAGGAGAAAAAGGGCCCGAAGGAGGA GAAAAGCCAAGGAAACAAAAACCCGAAGGGCAAGGGGAAAAA G G G G G A G G A A G A A A A A G GAACC GAAAAACC GAA AA G G G G GAA C C G G G GAGCCGGGGAAAAGGAAAAGGGAGAACAACCAAAGGG
 A ATTCCGGACGAGGAGAGGAGGCCGGGGAAAAGGAACCAGGG A G G G A C G A A G A G A GAGAAGAGAGGAAGGCCCCAAAGGGAAAA G G G G G G TACCAAAAAATAGGAAAAGACCAGACAAAAGGAAGA A A A A A A A A G GAAGGAAAACCAGGGAGAAAGAGGGAAAAGAAA G G G G G G C A G GAGAGAAAGAGGGAAGGGGGAGAACAAAGAGGAG AAAAGAACAGCCGGAGAGCCAGAGAAGGGGGAGGAGGGGGGA GAGAGGGGACAGGGAAAAGAGGAAAAACAAAGGGGAAAAGAA A G G G G A G G GA G G GAAAGGAGGAAAAAGGACACAAAAGAAGGG GGCCCCGGAACCGGAAAAAAAAGAGAAAAAGGCCGACGAAGA
 A A A A C C G G G G T T G G G G A A G G C C A G G G G A G G C A A A G A G A A A A $G$ GGGGAAGGCCAAGAGGAAAACACCGGCCAGAGAAAGAAGGAA A A A A G A A G A A A A G GCCAGAGAGACGAGGCAAGCCAAGGAGCC A G G G G GAGGGAAAAAAAAGAAGAGCCGAAAAGGAACAAAGAA
 C C G G G A A GAA $A \operatorname{AGGGCCAGGCAGAGAGAAAAAAGGGGAGAGAG}$ GGAAGGAAGGAAAGAGAACCCCGGAACCAGGACCAAGAAAAA

AAGGCCAGATGAAAGGAAGACCACAAACGGGAGGGACCGGAG G GAGGAAAAGAGACAGGGGAAAAGAAAAAGGGACGGGAAGAG A GAACAGGAGGACGGAGGACAGGAGGAAAAGGAGAAAACCAA G G G GAAAA A GAAAA AAGGAAAGAAAAGGAAGGGGGAGAGGGG AAAGAGGAAAAGGGGAAAGAAGGGAAGAGGAAGGGGAAAAGA GAAACAGGAAGGAAGGCCCCGAAAGAGGCCGGAAAAAACCCC GAGAGAAAAAAAGGACGGGGAAGGAAGAGGAGACAAABCAAC A GAGAGAAGGAAGGAGGGAAGGCCCCGGAAGGAAAGAAGGAG G G GA G GAAAGACGAGAAAAAGAAAGGGGAGGGAABAACAAAC GAAAAAGGAAAAAAGGGAAGTAGACAGGAAAGGAACGAGAGG A A A GAAAAAAAAAAAAGGAGAAAAGCCCGGAAGAAGAAAGAG A A A A G G A G G G G G G A A G G G A A G G A A A A G G G G G G C C A A A G G A A G G A A A G A A C C A A G C G G GAGAGACC G GAAAAAAGGGGGGCAAA C C G G A A A A A A G G A A A A A A G G A A G G C C G GAAAA G G G GAA G G C C G GAACCAAAAGGGGGGGGGGGGGGAAACCCCACAGAGGCCGG G G G GAAGGAACAAAGGGGCGCAGGGGGGAACCGAAGAGAGBA A GAAA A A CAACCCCAGGGAGGGGGGGAAGGGGGGAAAAGGCC
 GAGAAACAAACCAGCACAAGGGCAAGGGGGGAGAGGCCBACC G G A A G G G A A A A A A A A A A A C A G A A A A A G G A A A CAAA A A A G G C G AAGGAAAGAGACAAGGAGAGAGGGGGGGGGGGGGCAGAAAAA AACACCGGGCGGGAGGAAAAGGCCAATTAAGAGAGGCCAAGG GAGGGGCCAAGGAAAAAAAACAGGAAAGGGAGGGGAAAGGCC G A A A C C A GCCAAG GAAGAGGAAGGAAAAAGAAACGAAAAAA G A GAGAGCAGGAACCCCGGAGCCAAGGGGAGGGCCGGAAGGAA G GAAAAAGACAGAAAGACGAGGAGAGAGACAGAGGAGAGAGG CAGAAAAAAAAACCCCAGGGAGAGCCCCAGGAGATAAGAAGA GAGGGGAAGGGGAAGGAGAAGAGGGAGGAAGGGGCCAAAAAA
 GAGAAGCAGGGGAGGAAAAAAAGGAGAGAACCBAATGAAACC ACAAA A G G GAGGACGGAAAGAAAACGAACCAGAAAGCCGGGG CAAACAAAACAAGAAAGAGGGGCCAGGGGGCCCCCACCAGGA GAGAGGAACCGGGAAGAGGAAAGAAGAAGGAACCGGGGAGAA A A A A A A A A A GAGGACCAAAACCCCAAGGGGGGAAGGAAAACC A A G A A TAAAACCAGAAAAAAGAAAGGAAGGCCGGGAATAAA
 G G G G G G G A A A A A G GCC G GAGACCCAGAAAGAAAAAAAGGGCA T TA A A GCAGAAAAAGGGGGAGGAGAGAGAAAACAGGAAGGGG $A G A C A G G G A A G G A A G G A A G A G G G A G G G G A G A A G G G G G G A G A A$ G G G GCCGGGAAAGACCGGAAGGAGGAAAGGATAGAGGGAGAA AACCGGGGAAAAGGAGAACCAAGGGGGGCCAACAGGAAGGAA A A A A T A G C A A A A C C A A A A G G G G G G A A G G A C G G A G G G G A A C G G GACCACCCAAGAGAAAAAGGAAGGAAGGGGGGGGGGGGAAGA G GCAGGCCAAACAGAAGGGAGGAAGGGGAGAAAA GACAAGAC
 G G A A G G A A G G G G G G A G G G A A A A A A G G A A G G G A C C G G G A G G A A AC G A G G G G A A C A G G A G G G C C G G A A G A G G C C A G C C G G G G A G A G GAGGGGGGAAACGGGGGGGGGGGGGGAAAAAAGATXGACCGG A A G GAA A GAA $A \operatorname{A} G A C G G A A A G A G A G G A A A A A A G G A A A G G C C B A$ CAAAAGAGAGGGGGAAAGGGGGCCAACCGAGGGGGGCCAGAA A GAGAAGGAAAAGGACGGCAGGGAAGGAACAAGGAAAAAABA $A G C C G G G G G G C C A G A G A G A A A A G A G G G A A A G A A G G G G G A G A A$ C C G G A A G A A G A A C A G G G G C A G G A G A A A C G A G G G A A A G G G G A A A GAA A A G G G G G GAGAGGAGAAAGGAGAACAGGAAGGGAGAAG A A G A G A G A G A G G G G G G G A G G A A A A A A G GAGGGGGA GA GACAA A G A A G G A A C C A C G A A GAC G GA G GAGGAAAGAAAAAA G G T T A A G A A A G A A A G G GCCAA $\mathcal{A} G A G C C A G A A G G G G C C A A G G G G G G A G G G$ GAGAAAACCCGGAGGGGGAAAACCCCAAGGAAGGAAAGAGGG AAAAAGAAAAAGCCAGGAGAGAACCCGGAAGAACAGCCAGAA

A G G A G G A A A A G GAAAAAAGGGGGGGGACGAAAAAGAAAGGGG G GAGGGGACCGAAGACGGGGGGACAGGAACAGGGAAAGAGGG AC $C$ G $G G G G G A A G A C G G G G G G G G A A A A A A A A A G G G A G C A A A A A$ G G G G G A T TA $\operatorname{T} G A G A G G A A G G G G C C A A A A A A A A A A G G G G G G G G$ A A A A GAGGAGGGAGGGAAGACAAGGAGACAAGGGCCA
ACCAAAGAGGAAGCCAAGAAAGGAAGGGAAAACAAGAGAAA C CAACCAAAAGGGGAAAACCGGGGGGTAAAAAGAAAGGAACC $G G A A A A A A G G C C G G G G A A C C A A G G A A A A G G A A A A G G C C A A G G$ C C A A G G A A G GCCGGCCAAGGGGGGGGAAAAAAAAGGAAAAAA G GAAAAAAAAAAGGGGAAAAAAAAGGGGCCCCGGGGAAGGGG G G G GAAAAGGAACCGGGGAAGGCCGGAACCAAGGAAAAGAAA G G G GAA A GAA $A \operatorname{A} \operatorname{A} A A G G A A A A G G G G G G A A G G A A A A A A A A A A G G$ A A A A A A A A A A A A G G A A A A G GAAAAAAAAGGGGGGAAG GAAAA A A G G A A G G G GAACCAAAAAAGGAAGGAAAAAAAAGGGGCCAA G G G G G G G G G GAAGGAAGGGGCCAAAAAAAAAACCAAAAAAAA A A A A A A G G G G G G G G G G A A C C G G G G G GAAAAGGGGAAAAAA A $A$ A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G G G G G G G C C C C G G A A C A A A A A$ C C A A A A A A G G G GAA $A \operatorname{GGGGC} C A A G G A A G G G G G G G G A A A A G G A A$ G GAAGGAAAAGGGGCCCCAAGGAAAAAAGGAAGGGGGGACAA G G G G A A A A G G G G G G A A C C G G G G G G G G G G A A G GCC G G A A A A A A AAAAAAGGGGGGCCGGGGCCGGGAGAAAGGGGAAGGGGGGAA A G GAAACCAACACAAGGGGGGGAAAAGGGGAAGAGGGAAAGA
 A CAG G A G A A G G A A A G G G G A A A A G A G G G G C A GAC C A A G G G G A A A A G G G GAAAA A $A \operatorname{AGGGA} \operatorname{A} C \subset A A G G G G G G A A G G G A A G A G A A G G G G$ A GAAAAGGACAAAAGGGGAGCCGGGGGGGGGAGGAAAAAAAC $A C A C A G G G G G A G A G A G G A G G C A G G G G A G C C A G A G A G A G G G G G$ G GAGGGAGGGGGGAGAAAAGGGAAAAGGGGGGAAAAGGAGAA G G A A G G G G G G A GAGCAGAACCCGAAGAGGGAAAAAACAAAGB GGGACCCCAAAAAAGGGACAGGACAAGAGGGGGAAAGGAGAG AC G A G G G G A G A A C C G G A A A A C C G G G G A C A A A A C A G G G G T T G G G G GAAGCCGGGGCCACGGAAGAAGCCAAGAAAAACCAGGGGG G GCCAAGAAGGAAGGAGGAAGAAAAACCGGAAAAGAAAGGGG
 A A G G A G A C G A G G A A G G G G A A G G G G GACC $\mathcal{A} A A A G A G G G A A G A G G$ G GAACCCCGGGGAACCGGGGGGGGAAAAAAAAACAGAAAAAA A A A A CACCAGAAACGGGGAAGGGGGGCCAGACAAAACAAGCC AACCAAGAGGGAAACCGGGGCCAAGGAACCGGAAAAACAAAAA $A \subset A A A G G A A A G G G G A A G G G G C A G G A A A G G A A A G G G G G G A G A A$ G GAAA A A GAAA A G G A A A T G G G G G G A A A A A A G G G A G G A A A A G G $G G A G A A A A A G A A A A G G A C A A G G A A C C A A C C G G A G A G A A G A G A$

 G G G G A A GAGGGGAGGAGGGGAAGGAACCGGGAGAAGAACAAA A GAGGGGGAAAGAACCAAAAGGGCAAGGGGACGGACGAGGGC GAAGACGGCCCAAAACAAGGAAAAGGGGGAAGGGAAAAGGGG ACATGGAAGGAAGACAGGAAAGGGCCAAGGCAAGACAAAAGBG G GCCGGGGAAAAAAAAGGGGAAAAAAGGAAAAGAAAAAGGGG G GAAGGGGAAGGAACCGGGGAACCAAGGGAGGAAAAAAAAAA A G G A A C GCGCAGAACCACAGGGAGAAGGGGAGGGGGAAAAAA C CAGAGGGAAAAGGCCGGAACCGGGAGGAAAGGGGGAAAAAG A GAGGGGAGGAAGGGGACAGAAAGAGAAGAAAAAAAAAAAAG
 CAGGGAGGGGAACCGGAAAAGGAAAGGGGGAAAACCAGAAAA GAAGCAGAGAAAGGCCGGGAAGGGGGAAGGGAGGAGTAAAAG G G A G A A G G A G G A C C A A A G G G G G G G G A G G A G G G G G G G A G A $\mathcal{A} A G$
 A G G A G G G G G G G GC C A A A A A A G G GA G GAG GA CA GAAA G G G G C G G GCAGAAAAGGAAAGGGGGGGGCCAGGGAAGGAACCGGAGAA

C CAGGGGGAAAAGGGGGGGGAAGGAGGGAGGAAAGGAAAACA A A A G GAGGCCGGAAAAGAGGGAGAAGGAAAAGAGGGACAAAA A GAGAAAAAAGAGGGAGGAGAAAAACAAGGGGAGGAGAAAAA G G G G G G G GAACCACAGCCGGAAAGGGAAGGCCAAAAGGGGGG A GCGAGCCGGAAGAGGAGAAGGAAAAGGGGGGAAGGAAAAAA A A G G G G G G G G A G A A C A A G A G G G G G G G A A A G GAA A A G A A A A G G G G G G A A G G A A C C G G GAGGAGAAGGAAGGAAAA GAA G GA GA GA G AGAAAGCCAGGGCAGAGGAAGGACGGGAAGGAAGGAGGAGAG GAAAGAAAAGAGGGAAAGAGAAAAAACCAAAAAAAAGAAGGG G GAAGGGGAAGGAAAAACACACAAAAAAGGAAGGCCAACAAA GAAA $A \operatorname{A} A A G G G G G G C C A A G G A G A C G G G G G G G G A G A A A A G G G G$ A A A A C C GCGAGAAAAACAGGAACCAAAAGGAGGAGAGAGABA G G G G A A G G A A A G G GCCCCGGAAAAGGGGCCAAGGTTAAAAAA G G G G A A A A CCGGAAGGCCGGCCGGAAAAAAAAAAAAAAAGAC GAA $A \operatorname{A} G A A A G A C A G A A G A G G C C A A G A A G G G G A G G G A G G G G G A$ GAGGGGACGGGAGGGGAGAGAGGGGAGGGCAAGGAGACGGGG
 GAGGCCACCCAAAAAACGCACAAAGAAAGGAGAGAAAGAGAA C C A A ACG G ACAAGAGGGAGGACGGAAAGGAAGCCAGAAGGCC TAAG GAAGGACCGGCCGACAAAGAAAGAGGAAAGAAGAGGAG AAAAAACAACGGAGGCGGGAGAAAAAGGAGAGGGGGGBAGAG A G G G G A G G G G A A C A A A GAA A A C GAGGAGGGTTAAA GAAAGAA $A G G G A A G A C A A G A G G G G A G G G A G G G G G G A A A C G A A A C C A A T A$ ACGGGGAAAAGGGAAAAAAAAAAGGGAAAAAAGACCAAAGAG A G A A T TCCAACAGGAAGAAACCCCGGGGGGAGGGAACACCAC G GAAAAAAGACCAAGGAGAAGAGGTTACGAAGGAAGAAAAAA $C \subset A A A A C C G G G G G G A A G G G G A A G G A A A A A G G G G G A G G G G G A A$ AAACGGCCGGAAAAAAAAGAGGGAGGCACCAGAACAGGAAGG G G G G G G G G A A G G G G A A G GCCCCAAGGGAAACAGAAGAAAA G G GAGGGGAGAGGGAAGGGAAAAGGAAGGAGAACGAAAGGAGAA G G A A A A G G G G G G G G A A A A C C A G A GAGGAAAGAGGGGGGACAA GGAAAGCAAAAAGGGGAAAAGGCCGGAAAAGAGGGGAGAACC

 A G A A A GAACAGAAAGGGGCCGGCCAAGGAACAAAGGACAAAA T T G G A G G G A A T TAACCAGACAAAAGGGGGGAAGGAGAAAAAA
 AAAAGGGGCCGGAGGGCAGAGGAAGCGGGAAGAGAAGGAAAC G G A A $\mathcal{A} G \operatorname{G} G A A A A A G G G G G G A G G C C G G G G G G G G G G A A G A A A A A$ A A A A G G G G A GCC $C$ G G GAGAAGCCGGAAACGGGGAA GAA GAGA G GAGAAGGGAAGGGAAGAAGGGGAAGGGGAAGGAAACGGAGAG G GAA $A \operatorname{GCA} A A A A A G A G A A G G G A A G G C C A G A A A A C C G G G A G G A G$ G GAGGGGGAGAACAAGGAGGGGGGGGAGACAGCCAAAAAAGG AA $A \operatorname{GCCA} A A A C C G G G G G G A A G G G G C C A A G A C A G G A G A G A G A G$ A G G G G A G G A G G G G G G G C C A C A A C A A G G G G G A G G G A A C A G G A C G GCAAACCGGAAGAAGAGACAGGGAAGGGAGAAAGAAAAA GA A G A G G A C C A G A A G G G G G A G G G A G G G A G G A C G A A A A G A C A G G G AAAGAAAACCAGAAAAAGGAGAAGAGAAGGACGGGGAAAAAG G G G GCCGAGGAAAAGGAAAACCAAGGAAGAGAGGAAGAGGGG A ACCAGAACCGAAAGGAAACACAAGAGAGAAGGGAAGGAAAA G G A A A A G A G G G GAACGGGGGGGGGGGGAAAAGGAAACAAAAA G GACAAGAGGAGAAAGAAGGAGAGAGAAAAAGCCAAGGAAAA C C G GCCCCAAGAAGGAGGGAAGAGAAACAGAAGGGGAGGGCC G GGACCAGAGAGAGAAGGAAGGAAGGGGAAACAGAAAAGGAG A A A A G G GAGGGGGGGGAGGGAAGGAGCCAAGGAGAGAAAAAA A A A G G G G G A G A C A G A A A A G G G G A A G GAGGAACGGGGAAAGAC $G G A A A G A A A G A A A A G G A A A A G A A A G G G A C A A A A A A G C C C C G G$ A A G A C A $\mathcal{A} A G G G G G G G G G G A A A G G G A A G G C A A G A A A A G G A A G G$ G GAAGGGGAAAAGAAAGAGACCAACCGGCCAAAAGGACGGAC

G GAAAAAAAGAGCGAAGGGAGGAGAGGGGGAAAAAAGGGGGG

 G G G G GAGGAGAAGGGGGGAAGGAAAAAAAAGGAAAAAAAACC A A A G G G G GAGAGGGGGACAAAAAAAAGGCCGGGGAAA
A G G G G A A A A C A GAGACAGAAAGAAGGGACAACCGGGAGAAA CAACGAGGAGGAGGCCAACAGGAAAAGAAAGGGAAAAGAGAA G GAAAGCCGGAAGGAAGGAGAGGGGGGGAAAAAAAGAAGAAA GAGGAGGGAAGGAAAAAAGGGGGGGGGAAAGGGGGAAAGGCA AGAAGGGGCCCCCCGGGGCAAGAGGAAAACAGGGAGAAAAGG
 A A G G G G A A A GCCA G G G A GAGAGGGAGAGAAGAGGA GA GA GAA $A$
 A A G G G A G G A GAACCGGAAGGGGGGAAGAAGAAGAAGAACAAA G G G GCCAACCAAAAAGGGAGGGCCGGGACCCCGGAAGGAAAG CAA $A \operatorname{GGGA} A A A A G A G G A T G A G G A G G G A A A A A A G G A A G G G G T T$ G G G G A A A A G G G G G A C G A A G G G G A A A G A G G A A A G G G A G G G G G G C C G GAAA A A A A G GAGGGGAAAAAAGGAAACCCAAGGGGAGAA $A G C C A G G G G G A G A A C C G G A A A G A G A A A G G A A A A A A A G G A G A A$ AC G G A A C A A A G GAC G GAC GAGCAGAAGGAAGGGGAAAGAAGG AA $\operatorname{A} G \mathrm{G}$ GAACCGGAAGGGAAGAAGAGGAGAGAAGAAAGGACGG G G A A G A A A A G G A A A A G G G G G G G G A A A G G G G GA G G G G C A A A A $G$ G G G G A A A G A A G GCC G A G A G GAGGGAAAACCGGGGAAGGAGAG A GAGCAAGGAAAGAGAAAGGGGAAAACCGAAGGGAGCABACC A G G G G G G G C C G G G G C C A A G G G G A A G G A A C CAA G G A G A G G A A G $A G C C A A A G G G A G A A G G G G A A A G G G G G A A G G G G G G G G G A A A A A$
 A A G G A A $\mathcal{A} G G G G G G G A A A G G G G G G A G A G G G G G G G G A A G A A G G G$ A GCAAGAGGGGGAGAAAAGAGGGAGGAAAACCGGCCAAAGGG A GAAGGAAAGGAGCAGCCAAAGAAGGGGACGGAAAAGGAGAG G G G G C C G G A C G G A A A A G G G G G A A G A G G A C A A A A A G G A A T T A C A GAA A G G GAAAAAAAAGGAAGAGATTGAGAGGGGGGGGGACC

 A G G A A G G A A G A A A A A G G G G A G G G A A A G GAGGAGGGAACACAA C C C C A G A A G G G G G G A A A A A A C CAAAAGAA GAAAAAA G G G G A G GAAAAAAAGGGGGGGAGGAGAGAAGGCCAGGAGGGGGA$G A A A A$ CAGGGACCAAAGCAAGAAAGGGAGCACCGAAGGGACCACC GA ACAAAAGGAAGACACAGAGGAGGGAAAAGAAAGAAGAAAAAG A C A G A A A G T T A A A A $\mathcal{A} G G G G G G G C C G G G G G G A A G G A G G G A G A A$ G G G G G G G A G G A G G G GAAAAAAGGAAGGGGGGGACCAAAGAGA G G G G A A G C A A A A G G A G A A A G A A A A GAGAGCCAAAAGAAACCGG $C \subset A A A A A G A A C C C C A G G A C A C C A A T A A A G A C A G G A A G G A A G G$ G G A G G G G G G G G G G G G G C C A A A A A A A G C C G A A C A C A A G G G G G G G G G G A A A A A A GAGGGCAAAAAGAAAGGAGAGAAAAGGGAAAA GAGAGACCAACCAAGGAAGGGGCAAGAGGAGAGAAGAAAAAA A G A A G G G A G G G A G G G G G A G C G G G G C CAA A G G A C A A G G G G A A A C C GAGGGACCGAGGAAAACCGGAAAAGAAACGCGGGAAGAAG AA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A C A A G G A A G G G A A G G G C C G G G A A A A G G A A G A A$ G G A A G G A A $\mathcal{A} G G G A A G G G G A G A A G A G G G G A A G G G G A G G G G G G G$ G GAAAA A A A A G G G G G G A A G GAAAAAAGGCCAAGGAAAAGGAA A A A A A A G G G GAA $A \operatorname{AGGAGGGAAAAAGGCCAGAAGAAAGGGGCC}$ A A G G A G A A A A A A A A C C A A G A G A G G A A A G A A G A G A A GAA G G A G AACAGGCAAGAGGGAAGGGGGGAAAAGGAAGGCCGGAGAAGA G GAA A G G G A A A GAAAAAAGGGGGGAGGGAGAGATGAAGACAC $G G C C A A A A G G C C A A G A A A A A A G G G G A A G G A A A A A G G B A G G G A$ A GAG $A \operatorname{GC} G G A A A G A G A A A G A G G G A G A G G G G A G G G G A C G G C C G G$ G G G G G GCCAAGGCCGGAAAAAGAAAGGACAAAGBAGAAAAAAG A GAAGGGGAAAAAAAGGGGGAAAGAGAAAGACGGAAGCAGAG

A G G G G G G G A G G GAAAAGGGGGAAGGAGGAGCGAAGGAGAGAA G G GACCAGGAAAGGGAAAGGTTCACAGAAGAGGGGGAGAGAG $G G A G A A G G A A C C G A G G G G A A G G A A G A A G A G C C A A A T A C A A G G$ G GAACCAACCAAAAGGAAGGGGCCGAGACCAAAAACCCBGAG CAGGAAGGGGGAAGGGCCAGAGAGGGGAGAGAAACCAGACAA GAAGGGGGAAAGGGGGGGAGGAAAGAAAAGCCAAGGCCAAGAG
 AGAGCAGAGAGGCCAACAAAAGGGATGGGGAAGGGGAAAACC $A G C C A G A A A C A G C A C G G G G A G G G G G G G A A G A A A G G G G G A G A A$ GGCCCCGGGAAAAGGGAAGGAACCCCAGGGAAAAAACCGAGG A G G GCCGGAAGAAACCGGCCGACCAGGGGACCAAAAACGGGG G G G G G GC CA $\mathcal{C} G A A A G G G G A A A G G G A A G G G G A A C C A A G A C A A G$ G G A G A GCAAAAAGGGAAAGGGAGAGGTTACGGGGAACCAGAA A G G GAAAA $A \operatorname{AGGGA} G C C A A A A G A A A G A A A A G G G G A A G G G G G G G$ GAAAGGGGAGGGAGAAAAGAAAAAAAGGGGGAAGAAAAAAGG $A C G G G A A G G G A G G G A G G G A G G G A A G G A A A A G G G G A A G A A G A A$ AAAAGGAGAACAAGGAAAGGACACGAGGGGACCAAAGAGAAC A GAGGGGGAACAGGAGAGCAAAAGCAGGAAGGGGGGGGAGGG GAACGGGGAACAGGAGCCGAAAGGAAAGAAAGAACCAAGGAG
 GAGGGGAAAAGGAGGGGGAGGAAAAGAACAGAGAGGATGAAA AAGGAGAGCCCCGGCAAAAAAAAAAAAAAGGAAGGAAGAAGAA A A G G G G A A C C G A C A G G A A G A GAACGGGGGGACAAAAAA G $A$ A A $G$ C C C A C C G G G G A G G G C GAG GAAAAACAGGGGGAAACGAGGCC A A G G A A A A A G GA G G G A A C A A GAGGGAGAC GAGAAGGA GAAAC A A
 AAGGAAGGAAAAAAGGAACCGGGAGGAAGGAAGGAAAAAGCC C C G G G A A A G G G A A A G G GACAAAAACCGGGGCAAGAAAGAGAA G G A A G G G G A A G G G G G G CAC CAAAGGGGGAAAGAA GAGAAAGCC A G G G GAGGCCGGGGCCGGAGAAAACCAAAGGGGGGGGGAAGA G G A G A A G A G A A G G A C A G A A A G G G G A A G G A G A G A A G G A G A G G A
 A A GAAA A $A \operatorname{G} G \mathrm{G}$ GAGAAAAGAGGAAAAGGGGGAGAAAAGGAGAA
 G G A A A A G G G G G GAA A G G G C C G G G G A A A A C C G G A A A G G A A G C C
 G GAAAGGACCAGAGCCGAGGAATAGGGGGGGAGGGAGGGGGG ACAAAAGGGGAGCCAAAACCGGAAGGAAAGAAAAGGGGCCBA GAAGAAGAGAGGAGAACCAGGAGGGAGGGGGGAGGGCCAAAA C C G A G G G G A G G GAA A A A A G G G A A A G G G G G G A A A A GA G G G G C C G GACAAAGGGAAAGAAGGGAAACCAACGGAAGGGGCGACAAG A A A GA GA GTTAGAACCAACCACGGAGAAAAAGAGGAGGAGAG AGGAGAACAGAGGAAGGGGACCGAAGAAGGAAGGGGGGAAA G
 A G G A $\mathcal{A} G C C G G G G G G A G G G G G G A G G G G G A A A A A A A A G C A G G T T$ C C A A G G G G A CAA A GACAGGGGAGGGGGAAGGGAAAAAAAAAA GAAGGAAAAGAAGGCCAAGGAAAAGGGGAGTTAAAACAAAGAG A A G G G G G G G G G A A A G GAGGGAAAAAAAACCGGAGCCGGAGAA GACCAGAGAAGAAAAGAGGAGGGACCGGACAGAACAGAAAAG
 A A G G G G A A G G A A A A T TCC G G G G G G G ACCGCAGGAGAAA GA GA G G G G G G G G G G G G GAACAAGAAACCAAGGAAGAAGGGAAAGCC A A G G A A A A G G A A G G G G A $\mathcal{A} A A G G G G G G G G A A G G G G A A A G G G A A$ A GAAGGAAGACCCCGGGAAAGGGAAGAAAAGGAACCAAATAG G GAGGACAGAAAGGCCAGAGCCAAAAAAAAGGGGCAAAAAAA $G G A G A G G G A A A G G G G G G G A A G G A G G C A G A G A A A A G A C C A G A A$ A A G G A A G G G A G A G A G A GAA A A A G G GAGGGGAAACACAAAGA A G G G A C A G G G G G G A A A A A G G G G G A G G G A A G G C C G G A A A A G G C A G G G G G G A G A A A A T T A G G GAGAGGGATAGCCGAGAAAAAAAAA

GAAGGGAAAAAAAAAAAACCAAAAGGGAAAGGGGGGAAGGGA
 G G G G G A G A G G G A GAAC $\mathcal{A} G G G G A G G A G G G A A G A G A A A C G A A G G$ AAAGACGAGAAAAAAAGGAAGGGAGAAGAAAAAAGAGGCCCA GGGACCACGAAGCCGGGGGGCCAAGGGAAGAAGGGGC
$C C C G G A G A A G A A G G G G G A A A A G G G G G A A G A C G A A A A G A G C C$ G GAGAGCCAGAAGGAAAGGGGAGGAAGGAAGGAAAGCAGAAG AACAAAAGGAGGAGGGAGAGAGAGAGAGGGGGAAGGAAAGAA GAGAACGAGAAGAGAGGGGGGAAGGAAGAAAGACAAGACCAG AGAAAACCAAAGGAAAAACCCAGAGGGGAAGGAAAACCAGGG AA $A \operatorname{GA} A A A G A G G C A A A G G A A C A A G G A G G G A A C A A G A G A A A G G$ AAAAGGAAACGGGGAAGGGGGGGAAAACGGGGCGAAAAAGAG $A G G G A A G G C A G G A G G A C C G G A A G G A A G A A A A A A G A G G A G G G G$ $G G A A G A G G A A G G G G A A A G A A G G G A G G A A A G G G A G G A A A C C T A$ AACCGAACAAGGAAGGCCAAAAGGAAAAGGGGGGCAGGGGAG AA $A G G G G G C C G A A A G A G G A A A A C C A A G G A G G G A G G G C C A G A A$ A A G GAAGGGGAAAGAAAAGGGGCCAAGAAACCAGGGAAAGAG C C A G G G G G C G A G G A G G A A G G G G A G G A G A G A GA G A A G A G A G A A $G G A A A G A A C C A G G G A A G G A G G A G A A G A C A A A A C C A C G A G A G A$
 G GAAAGGAAGAGGGACCCAAAAGAGGGGAAGAAAACAAAAGA G GAAACGGGAAAGGGGAGGACAGAGGAAGGGGAGAGGAAAGG $A A C C G G A A A G G A A A G G G G G G A G G G A G G G G G A A G G G G A G C A G G$
 GA $\operatorname{G} G A G A A A G A G A G G G A A A A G A A G G G G A G G G A A A G G A A A G G A$ AAAAGGGGAAAACCCCGGGAGACCCCAACAGGGGAAAGAAGA GAGGGAAGAAGGGGAAAAGAAAGGAAATAAAGCGGGGGCCAA G GAAGGCCAAGAAAACAGAAGGGGGGGGCCGAAGAAAGAGCA GAAAAACAAGAAACAGAAGAGGGACCAGCCAAAAGGGAGAAA ACAGGGGGCAGGAAAAAACCGAAGAAGAGGGGGGAAAAGGTT G GAACCAAAGGAGAGAAGCAACGAGGAAAGAAAACCGAGGAA G GAAGGGGGGAAGGGAAAAAACAAAAAAGAAAAAGGAAAAGG AA $A \operatorname{GGGA} A A A C A G G A A C C A A G A A G G G G G G A C C G G G A A G A G A A$
 A GCAAAAAAAAAAGCAGAAAGAGAGGGGGGAGACAGAGATXA A A A A A GA G CC G G A A A G A G G G A A T T G A A C G G G A G G G G G G G G A A GAGAGGAAGGAACCGAAGACAAGGCCAAAGAAAAAGGCAAGA G G GAGGAAACAAAGCGTAGGAAGGGGAAGGGGAAGAAAGGGG A A A A A A C C G G A A A A G G G GCCGGGGAAGGGGAAAAAAAA G GAA G G G GCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAGG A A A A A A A A A A A A A A A A A A A A A A A A A A GGGGGGGGAAAAGGGG AACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGGAAAA A A G GAAGGAAAAGGAAGGAACCGGAAAACCAAGGGGGGAAAA
 A A A A G GAA $A \operatorname{GAAACCGGGGGGGGAAAAAAGGAAGGAAAAGGAA}$ G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A A $G G A A C C A A C C G G G G A A A A G G C G G G A C G A A G G G A A A A G G A G A G$ $C \subset C \subset A A C A A G A A A A A C G G G A A A G A A G G G G G G G C C A A G G A A A G$
 GAGAAAGAGAGGAAAAAAAAAAAGACAAGGAGAGAAGAAACA CAAA A GAGAGGAACGGCCGAGGGAGGGGGGGGGAGCACACAG GACCGGGGGGGGAAAGAGCAAACAAGACAAGGGAAAAAGGGG GAAGGGAAGGAAAAAGCAAAAACCAAAAACTAAGAGAAAAAA CAAGAAAAGGGGGGAAAGAACCCAGGGGGGCCAAAACCAAGA $C \subset G G G G G G G A C A A G G A C C A A G G A C G A A G A A G G G G A G G A A C G G$
 A A A A A A A G A A A ATTAAAGGGAAGGCAAATTAAAAAAAACCAA A A A A A A GAAACCAACCTAAAAGAGGGAAAGAAAAGAAACCGG G G G GCATTGGAAAAAGCCGCACGAAAAAAATACAAAAGGATT

AAACAACCAAAACAGAGGGGAAAGGGGACAGGAAAGCAGAAG A A A A G G G GAGGAGGAACCGGGAAGGGAGGAGAAAAGCCGGCA AAGGGGCAGGGGAGACGGAACCAGAAAAAACCAAGGAGAAAA G GTAAAGAGACACATAAAAAGAGGAAGAAAAACCAAAGAAAA G GAACAAAAAAACACAACCCGGCCGGAAGGAATTAAAAGGGA A A A A G G G G A A A A G GAA $A \operatorname{AAGGCCCCGGGGGGAAGGACAACAGG}$ G G G G C C A G A A G G G A A A A A G G G G G G G G C C C C G A G G G A C C G G G G $G G A A C C C G G G G C G A G G G G A G G A A A G G G G G G G G G G G B A A A G A G$ A A G A C A G A C C G A A C G G G G C A G A A G G A T T A A G A A A G A G G G G A A
 G G GAAA $A \operatorname{A} A C G G A A A A G G A A A G A A A A A G G A A A A A G G A A A G G G$ C C G G A A A G GAGAAAGGGAAGGAGAGGCCCAGGAAAAAAGGGG
 CAAAAAAAAGAACACCGGAGGGACGGGGGGAGAAGGCAAGAG A A G G G G G G G GCCA G G G A A A C CAC CA A A G GAGGGGGGAAA GAA GAGGAAAAGACCGAAAATGAGGGGGAAAGAGAGGACGGAGAAA A A GAGAAACGCACCGGGGCCGGGGGGAAGGGAGAAGGGACAG G G A A C A A A A G A A A A GAAACAGAAGGAAGGGCACAAAA GAAAC $G G T A A C G G A G C C G G A G C C G A A A G G G G C C G A A G C C A G G A G G G A$ C C CAG GAAACAGAAGGAAGGGGAAGGATCCGGGGGAAAAAAA AAAAAAGGAGAAAAGGCCGAGGGGAACAGACCGGAGGGAAAA G G G GAACCAACCAGAGGAGGGGGGAAGGAACCACAAGAAAAG GAAGAAGGGGGGAAGAAGCAGGGAAGGGGCCAGGGAAGAAAG
 GACCAAGAGGAAAAAGCAACCAGGGGGGAAGGGGGGGGAAGA G GAGAGAGCCGGAACAGGAAGGAGCCGGCCGGGGGGGGGAAA
 GAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGGGGAAAAGAG A G GAA A A A GAGGGGCGAAGGCCAGAAAAAAGGGGAGACACAG GAAAGGGGAACCAAAAGGCCAAGGGACCAGAGAAAGGGAAGAG G G G GAA $A \operatorname{GAAAAAGGAAGGCCAAGGAACCGGAAGGCCCCGGGA}$ ACAAGGCAAAGGCCAGCCGAGGAAGGGGCCGAGGAAAGGGAA

 AACCACATCCCCCCAAGAGAGAGGAAGAGGAAAGGGACAAGB $G G C A G G A A A A G G G G A A G G G G A G A G A G G A G G A A G A G G A A G A A A$ AAGGCCGGAGCCAACAGAAAAGAAGAGAGGGGAATTGGGGAA G GAA $A$ GAA $A G G G A A A G G A A A G G A A A A A A G G A G A C A A A A G G A A$ C CA $A \operatorname{GGA} A A A G G G A A A A G G G G G G A G G G A G A A A G G G A A A G G A G$
 A GAGAAGGAAAAGACAGGGGAAAGCCAAGGGGCCAAAAAAGG GAAGGGAAGGGGAAAAAAGGGGGACAGAAGAGAAAAGAAAAA AAGGCCAGGGGGGGGGGGAGAGGGAAGGATAGAAAAAAAAGA G G G A G A A G A G A A C C A G A G G G GACAGGGGGAAGCC G G G G G A A G G
 A A A A C CA G A G A A A A A A GGGGAAAAGGAAGGAAGGAAGAGGAA
 G G G GCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAAGAGGA G G G G G GCGGGGGGGAGGGGGAGGGAAAAAAAAGGAACCAAGG A GAA $A \operatorname{GAAAAAAAGGGGAAAAAAAGAAGGAAAGACAAGGGAGA}$ T TAAAACCCCGGGGGGGGAAGGAACCGGGGCACCCAGGTTGG1

 $G G C C A A A A G A A G C G A G G G A A G G A G G G A G G G A A A A A A A A G A A G$ A A A G G G G G G G G A G G G G G G G G A G G A G GAGATCC G G A GAA G GAA G G GAGAAGAAGGGGGGAGAGGAACAAAACCAGCAAAAAAGAA AAAGAAGGCCCCGGGGAACCACAACCTTACGACCGGGGAABAA G A C A A G G G G G G A A G A G A GAAAA A G G G G G G G C C A A A A A A G G G A AACCGAAAGGGGAAAAAAAAAAGGAAAAAAAAAAGGGGGGAA

A A A A A A G G A A A ATTAAAAAAAACCAAAAGGGGGGAAAAAA A A A ACCAACCGGAACCAAAAGGAAGGAAAACCAAAAGGGGAA A A A A A A A A G G A A A A A A A A GGGGAAAAGGAGAAGGAA GAA A A A AAAGAGCCACGGAAGAAGGGCCAAAGGGAAGGGGGGGAAGGG $G G C C G G A A A A G A G G G G G G G G G G G G A A A A A A A A A A A A G$
G G G A A C C A A G G G G A A G G G G C C A A G G A A G G G A T A A C G G A G G G A A A A A GAGAAA A $A \operatorname{A} G A G A A A A G G C C G G G G G G G A G A C C A G C A G A$ A GAGAAAAGGGGAAGATTCCGAAGGAAGAATTAAAAGGAACC A C A G A A A A G G G G A A G G A G A G C A G G G G A A G G A A A A A A $\mathcal{A} A G G G G$ $C \subset A A G G G G A C A A G A C C G A C A G G A G G A A A C C A G A A A G A A G G G C$ G GAACAGGCAAAAACCAAAAAAAAAAGAGGAACCGGCCAGCC CACCCCCCGGCAGGACGAGGAGAGAGAAAAACCCAAAAGGGG G GCCGAAAAAGGGGAAGGAGGCAAGGGGATAGGGGGAAAAAA G G G G G G A A G G C C A G A A G A A G G G A A G G A A G G G G G G G G C C G G C C G GAA $A \operatorname{A} A A G G G A G G G G G G A A T X G G G A A A G G A A A G G G G G A C A G$ A G GAGGGCAGAGAGGGAAGGGGCCCCAAGGAAGGGAAGACAG C CA $A G G A A A G A A C A G G A A G A A A G G G G G A A A G A A G A A G A G G G G$ C C A A A G G G A GAGGGGGAGAAGGAAGGGAGCGGGGAAAAGGAG $A C A G A A A A G G A A A A G G C A G A A A G G G C G G A G G G A A A A G G A G A G$ A GAA $A \operatorname{GA} G G G C C A G G A G G A C A C G G C C C C G G A G A G A C G G G G C A$ G GAAGAACGAGAGGGGGGCAGGCCAGAAAGAAAGGGAAAAAG A G GAACGGGGCCAAAAGGGGAAGGACAGAGAAAACCAAGGAC $A C G A C A G A G G G A A A G G C C A G G G G G G A G G C C G G G A A G G G A A A A$ AACCGGAAGAAAAGGAAAAACCGGGAAAGGAACAAGGGAAGAG AAAGAGACGAAGAGAAAAGAAGAGGGGAAGAAACGGAGAAAA

 A GAGGGAGGGGGAAAGAAGAGAAGGGGGAAACAGGAAACGAA A A A A C C T T G GAAGGCCAAAGAAGGGACCGGAAGGGGGGAGAC A GAA $A \operatorname{GGG} G \mathrm{G} G A A A A A G G G A A G G A G A A G G G G A G A G A A G G A G A A$ GAGGGGGAGGAAGGAAGGGACCAAACGAAAAAGGGGAAAGAA G G G GAA A GAAGAGAGGAAAAGGTTAAGGAGAGGAAAAGGGCC $C \subset G G A G A G A A A G G G G G A G C A G G G G G G G G A A G G A G G G G G A G A A$ A G G A A C G A G G G A GAC $\mathcal{A} A \operatorname{A} G A A C G G C C A A A A G G G G G G A G A A C A$ GAAGGAGGCCAGAAAAGGGAAAGGAAAACAAAGGGGGGAATT G G G G G G A A A G G A T T A A A C G G G GAAACAAGAGGGAA GAA GAAA CAGGGGGGGAGGGGGGAGCCCCGGAGCCGACACAGAAAGGAG $C \subset G G C A A A C C C A G C A G A A C A G G C A T T G A A A C C A A A G A C A G A G$ A G A A A A A G A G A G G G A A G G G G C C G G A A G G G G A A G A G A G G A A A $G$ $A C C A A G A A C C G G A A G G A A A G A G G G A G A A A A C C A G G G G A G G A G$ G G GAAGGGAGAAGGGAGAAAAAGAAACCAAAAGGGGAAAGAA A A G G A A A A A A G G A A G G G G A A A A A G A G G G G A A A G A A A A A G G G G A G T T G A A G A GAGGGGGGGAAAGAAGGGGAAGGAAAAAGAGAA AAGGAAAAGGCCAGAGCAAAAAGGACACGGGAAAAACAAAGB A A A A G A A A GAGGAAGGAGAAAAAAGGGGGGAGAAAGAAACAG G GAACAGAGGGGAGAGGAAGAGAAGAGGGAAAGGCAAGAACA TAATGGAGCCACCAGGGGAAGGGGAAAGACGGAGAAACAAGA AAAGGGGGACGGGAGCGACCAGGAAGAAGAGAAAAAAAAAGG G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAATAAAGG C GAA A G G G GAAA A G G G G A A A CAGGGGACAGGGAAAAAA G A A A G AAGGAAAACCAAAAGGAAGGAGGGAAGGAAAAGGAACCACAA G G G GAAAAAAAAAAAAGGGAGAGAAAGAGAAAAAGAAAAGGAG G G A A G G G A G G C G A A A A C C G G A A G G G G G G G G G A G G A GA G G G A G G GCCGAAGAGAAGGAGGGAGAGGGGGAAGGACAGGGGGGGGA G G GAGGGAAACAGATACAGGCAGAAAGGAACCATAGGGAAAA G G G G A A G G ACAAAAAACCGGCCAGAAGGGGCCAACCCCAAAA A A A A G G A A A G G GAAA $A \operatorname{AGGGAAGAGAGAATTAGCCCAAAAAAG}$ C C A A A A G A G G G G A T G G C C G G A A A A A A A A A A G G G A T T A CAA A A AAGGAAGGAAAGAGGCAAGGGCCCAAACAGGGAACCGAGGAA

A A A A A GAAAGGGAAAAAACCGGACAGAAAAGAAAGGAAAAAA T TAAA $A$ AAAAAAACAAAAGAAGACAAAAGGGGGGGAGCCCGG $A T G A A A G A G A G G A C G G G G A G G G A G G A G G G G C C G A A A G G A G A A$ A A A A A G G G GAAAAAAAAAAAGGAAGAGGAAGGCCGGGAGAAA AACCAGAAGGAGAGAGAGGGCCAAAAAAAAGGCCAAGAAAAA A A A A A ACCGGAAAAAACAGGAGGGGGAGGGCGAGGGACCCAA G G GA $\operatorname{G} G C C C C G A A G A G A A A A A A A A G A G G G A A G G A G G A G A A A G$ GAAAGAGGGAAAAGGGGGAGTTGGCGGAGAAAAGAAGGAGAA GAAGAAGGGGAAAGCCGGGGCAAGAAGGAAGAGAAAGGAGAA AGGAGAACGGCCAAAACCCCACGGCCCCAGCCGAAGAAGGGA GACCGGAAGGAAAAGGAAGGAAAGAAAGAAGGGGAACCGGGG G G G G A A A A A GACGAGAAAGGAAGAGGCAAGGGGGAGGAAAAA $A G G G A A A A A A G G G G C C A A G G A G G G G A G G G G G G G G A G A A G G G G$ A A A $\mathcal{A} G \operatorname{GA} A G G G G G G G G G G G G A A G G G G A A G G A A A A G A C A G G A G$ G G GAA A ACCGGGGGAGGGAACCAGAGGGAAAAAACCTTAAGG G GAACCAAGGAAGAGGAGAGAAAGGAGGAACAAAGGGAAAAA A G G G G A A G A A A A G G G G T T G A G G A C A A G GAAA A G G G G G G C C A G GAAG $A \operatorname{AAA} A G G G G G G A G G G G A A G G G G A G A A C C G G A G G A G A B A$ $G G A A G G A A G A G A G G A A G G G G G G A G G G G G G A A G A A A A G G C C G G$ GAGGGGAGGAAAGGAAGAGGGGAGGGAACGCCGGGGGGGBAA AAAAGGGGCCAAAAGGAGAAGAGAGGGGAAATCCAAAAGAAA A A G GCCGGGGAGGGAAAGGGAGAAAGGAGGGAGGAAGGGGAA A GACAAGGAAGGAAGAGAAAGGACGGAAGAGGAAAAGAAAAC G G G G A G A A G G G G A A A A GAGAGGGGAAAGAGAAAACCAAAGAA A G A A A A G G G G G GA G A G A A G G A A A A G A A GAG GAG GA G C A G G G A A GAA $A \operatorname{GAA} A G G A A G C A A A G G A A G G A A G G C C A G C C G A G G G G A A$

 A A A A A A A C G G A G A A GAAAGAACAAGGAGGGAAGGAACAAGAC AAAAGGGAGAAGAGAGGGGGAAAGAGCAGGGAGAAAGGAGAA A A G G A A G A C A A G G A A GAGGGAGAAAGGAACGCGCACACAAAA $C C A A G A C G A A A A G G G G C C A G A A A A A A G G A A G G A G A G A G G G G A$
 C C A G A G G A A GCC GAGGAACCGGAAAAAGAAACAAAAGGCCGG G G T T A A C C G G A A G G A A G G G A A G A G GA CAA $A$ G GAA A A A G G C G C C A A A A G A A TAAGGAGGGAAAAAGAAAAGGAAGGAACCAAAAAA A A G GAA A GAGAAAAGGGGCCAAAACCGAAAACAAGGGGAGAA G G G G G A G G G G A A G G G G G A G A G G GAGGGAGACCAAA G GA G G G G AAAA A GCCAAAAAAGGAAGGAAGGGGGGAAGGGGAAGGAGAA AACCGGAAAAAAAAAAAAAAGGGGAAGGGGGGAAGGCAAGAAA $G G G G A A A A G G A A G G A A A A A A G G G G G G A A G G G G A A C C G G C C G G$ G G G G A A G G C C A A G G A A G G G G A A C C G G A A G GAA G G G G C C A A A A AACCGGGGGGAAAAGGCCGGAAAAGGGGAAGGGGAAAAAAAA G GAAAAAAGAGGAACCAGGGCCGGGGGGGCAAGGGGCCAAGG G GAA A GAGGGAAGAGGGGAGGAAAACACGGCAAAAAAGAGAG A A A G A A G A G G G G A A G G G G G A GA A GCC G G G A A A A G G G G G A A G G A A A A G G G G G G G G G A A A G A A A A GAAAAAGCCGGGGGAACAA GA GAAGAAGGCAGGAAGGCCAGAAAAGGAAAGCCAAACAAAAAA GAACGGCCCCGGAAAAGGAGGGCCGAGAGGGAGAGGGAAAAA G GAAACACAGAGGAAAAAGGCAGGAGAAAAGGACAAGGGGGA
 $A G G G A G G G A G A A G G A A G G A A G G G G G G A A G G G A A G A A G A A A B A$ G G G G A G G A G G A A G A A CAAACGGACGGCCGAAAGAAGGCXCAG CA $A$ A A A A $\mathcal{A} G G G A A A A G A G G A A A A A G G C C A A G G G A C A C C A G A G$
 A A G G A A G A C C G G G G A G G A A A G G G A C C G G A A A G A G A G G A A G G G G G A A A A A A A A G G A GAAAATTGGAAGAAAAAGAGAGAAA G GAAG
 $A G G A G G G G G G C C G G G A A A A G G A A A A A A G G G G A G G C A A A G G A A$

GACCGAACGGGAGAAGAGGGGGAGCAAAAAGACCAACCGGAC A A A A G GAAAAGACCAGAAGGAAAGGAGGAACCAAACCCAAAG A A A A C C G G G G G A G GAA A G G GAAAGAGAGGAAAGAGGCAGGAA AGCCAAAAAAGGAACGAGAACCGACAAGGGAAGGGGAAACAG AAAAGGCCGAGGAAAAAGAGAGAGCCCCCCACAGGGA
GAAGGGAGGCCAAGGAGAAGGGAAAAAGGAGGGCAAGGGGG A A A A A A G G GAAC $A$ AAGAAGGAGGGGGGAGCCAGGGCCGGAGAA AAGGCAGGGGAGAAGGGGAGAAAACCAAAAGAAAAAAGAAGA G G A A A A A A GAAAAGGGCCGGAGGAAAAGAGGAAGGAAAGAGA GAAAAAGAAAGGGGAAAGACCCGGAGGGGGAAAAACGGBAAA G GAGGGGGCAACGAAAGGGGTAGGGGGGCCGAAAAAACAAAA $A G G G A A G G A A G G G A G A G G G G G G G G A G G G G A A G G A G G G G A A G G$ A GAGGAGGAAGAGAAAAAAAAAGGGGGGAAGGAAGAAACCGG G GAACCGGGGAAAAAAAAGGGGGGGGGGGGCCAAGGAAAACC
 AAAAGGAAGGAAGGGGAAGGAAGGAAAAAAGGAAGGCCAGAA G G G G G G G G A A A A A A A A A A C C G GCC G GAAAAAAAA A G G GAAC C A A A A G G G G T T G GCCGGAAAAGGAAAAGGAACCAAAAAAGGAA G G G GAAAAGGGGAAGGCCGGAACCAAAAAAGGGGAAGGCCGG G G G G A A A A G G A A G G G G G G A A A A G G A A A A A A A A C C A A G G A A A G GAAGGAGGAAAAAGAAAGCAAAAGCCGAAAAAGAGAGGAAAA GGCCAAAGGGAAAAAAAAGGAAAAAGGAAAAAGGGGGGAABA G GCCAGAGAAAGACAGAGAAAAGAGAGGCCGAGGAAAAAGAA

 A A G G G A A A A GA A GACAGGCCGAGGAGAGGGAAAGAAAGACAA $C \subset C \subset A A G G G G G A A A A A C C G G A A A A A A G G G G A A A T A G C C A A A C$ $G G C C A A A A A G G G G G A A G G G G G G A G G A A G A A A A G G G A A G G G B A$ G G G G G G A A A A C A G G A A G G G G G A G A A A A A G GA GA G G G G G T T A A ACGAAAAAAGCCGAGGAAAGAGAGAAGGAAAGCCAGACAA GA C C A A A G G G A G A GA GAGAAAAAAAGAAAACCTAAGAAAAAGGG G G G G GAAAAGAAACGGAAGGCCGGACGAAGAAGAGGGGAAAA G GACAA $A \operatorname{A} G \mathrm{G}$ GAGAAAAAAAAGGCCGGGGGAAGAGGACCGGGG C C G G A A C C G G T T G G A A G G G G G A C C A A G G G G C C C C A A C C G G G G A A G G G G G G G A G G A A A G A G A A G C A A GAGGAATTAC G G G G G G A A C C G G G G A G G G A G G G CA C A GAGGACAGGGCAAAGAAGGGCACA C CAAAA A A A A G G G G G GAAAGCAGAAAGAAAACAGGGGGAAAA A A G G G GAGAGGAGAAGAAGGAAGAAACCGGGGAGGGAAAAGA

 $G G A A G A A G C C A A A A G G G G A T A G A C A A G G A A C A A C C C G G A A A A$ A A C C A A G GCCAAGGCCCCAGGGCCCCAGCCAAGGGGAAGAAA
 A GAACAAGAAAGGGAAGGAAGAGGGGGGGAGGGAGAAAGGAA
 C C G GCCAGGAAACACCACGGAGAGAAGCAGAGGGCAAAGGGG G G A G G G G G G G G G A A G A C A A A G G G G A A G G G G G G G G G G A A G G A A AAGGCCGGAAGGGGAAGAAAGGGGGGAACCGGCAAGGAAAAG G G G GAC G GAAAATTAAAAGGGGAAGGGGGGAAGGAAAAGGAA G G G G C C G G A A A G G G A A G G G G A A G G A A G A G G G G G G G G G A G G G A A G G A A GAGGAA A G G A A A A G GAGGGCAAAGGGGAGGAGGAGGAG A GCAACGGAGGAAGCCAGCACCAAGAAGAAAAGGCCAAAA G G A A G G A A G G G G A A G G C C G G C C G G C C A A G G G G G G G G C C G G G G A A A A A A A A A A A A A A G GAA $A \operatorname{GGG} \operatorname{GAA} \operatorname{A} G A A G G G G G G G G A A G G G G G G$ G G G GAAAAAACCAAGGAAGGGGAAAAGGAAAAAACCGAAAGA G G G G A A G GCCGGGGCCGGAACCAAAAGGCCAAGGGGAAAGAA AAGGAACCGGAACCAAAATTAAGGAAGGGGAAGGAAGAAAAA A A G GCCGGGGAACCAAAAGGAAAAGGAAAAAAAAGGGGGGGG $G G A A C C A A G G G G A A A A G G G G A A A A A A A A G G A A G G A A A A A A A A$

G G A A A A A A A A G GAAAAAAAAAAGGGGAAGGAACCCCGAAAAA G G G G A A G G G G A A C C G G G G A A G G G G A A C C C C G G G G C C G G A A G G A A T T G G G G G G G G G G A A G GAA A G A A G G G G A A G G A A A A A A A A A A A A G G G G A A A A G G G G A A C C G G G G C C A A G G G G A A A A A A T TA A C C AA G GAA A GAAAAGGAAGGGGCCAAAAGGAAAAGGAAGAAAAA A A A A A ACC G GAAAAAAGGAACCGGGGGGGGAAGGAAGGCAAA G GAA $A \operatorname{GCC} C G G G A A G G G G C C A A G G G G G G A A A A A A C C G G G G G G$ $G G A A A A G G C C G G G G A A G G G G A A G G C C A A C C A A A A A A G G G G G G$ $G G C C A A A A A A A A A A A A G G G G A A G G A A G G C C T T A A A A A A G B A A$ G G G G G GAA $A \operatorname{GA} A A A A G G G G A A G G G G A A C C A A G G A A G G G G G G A A$ G G A A A A A A A A G G G G G G G G G G G G A A A A A A A A A G GAA GA GAAA $A$ A GAAAAAAGGCCCCAAAGGAACGAGAGAAGAGGGAAAAGACC A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G A C G A A C G G A A A G A C A G A A A A$ G GAGAACCAGGGGGAAACGGAGGAGGGGAAGGCCAAAAAAGG GGCCAAGAGGGACCAGGGGGCCGAGGGGCAAGAGGGGGAACC
 A A G G G GAACCAAGGAGGGAAAGGGAAGAAAAGGAAGAAAAAA GAAAAAAAAGACAACAAGGGGGGGGACAGGAGAGGGAAAGGG AACCGGAAAAAAGGGGAGACGGGGAAGAAGGGAGGAGAAAAA A A G G A A A A GAGGAAAAGGAGGGCCGGAAAAAGGGAAAAAA G G A A G G G G G GAAGGAAAAGGAAGGAAGGAAGGGGAAAAAGAAGGAG GAAAAGAAGAAGGGACAAGGAAAGAAGGGGAAGAAAAGAAGA G G G G A A G G G G G A A A A A C C A G GAGGCCGAGGGGGAGAAGAAAA GACAGGAGCAGGCAAGCAAAAAGGGGGGGAAGAGAAAAAAAG A GCC C G A G A A G A G G A G A A G G GAGGGAAAGGGGGAGAAA G GAA C C A A A A A A GAGAGGGGAAAAAGGGCCGGAAGGAAAAGAAAAA G GAAAGAAGGAAGGAAAGAAGGGGGAAGAAAAGAGAGGAAGA AACAGGGAGGAGAAGGAAAAGGCAGAAAGGAAAACAAGAAAA AAAGAGCCAAGGGGAAAAGGCCAGAAAGCAAGAGAGAACACC AAGGAAAAGGAAGGAAAGAAGGAAAGAAGAAAGGGAAAAGAG G G G G G A A G G G A A G A A G GAACGGCCAAAAGAGAGGGAAAAA G G AAGGGGAACCAAGGGGAGGGAGGGCCAAAGAAAAAAGAAACC
 GAGGAAGAGGAAGGCCAAAAGGCAGGGGGGGGAAAGAGAAAA A G A A A A G G G A T T G A G G G A G G A A G A G G G G A A G G A A G GA C G A A A A G A G G G A G G G A C C G G A G C C A A G A A A G GAAA A G G A G G G A A A A G G G G GAAGCCGACCGGAAACGGCCGGGGAAGGAAAAAAAAGA G G G GAGTTAAAAACGGGGAACCAAAAACGGGGCCGGAGGGCC
 G GAGAACCAAAAAAAAAGGAACAAAACAACAAGAGGCAGABAA A GAA $A \operatorname{GGG} G A C A G A A G G A A A A G G G G G A A G A G G G A A A A A A G G A G$
 A A A A G GAA A A G GAAAGGGAACAGGAAAAGGAAGGGGGGAGAA GAA A A A G G G GCC G G GAAGGAAAGAGGGGGGAGCCAAGAAGAC GAAGCCGGAGGAGGCCGAGGCCCCGGGGGAGGGGGGGGAGAA G G G A A C A GCCAAGAGGGGGAGGAAAGGAGAGAACACAAAAAA A G A G G G G G A G G G A G G G G G A A G G A A G G C C C C A A G A A A G G G G C C ACGGAAGGGGGGGGCCGAAGAAAAGGGGGAAAAAGGAAAGAC GAAAGACAGGGGGGGGAAAAAAAACAGGAGAGGGAAGGGGGG A A GAA A G G CAACA $A \operatorname{AAAGGGGGGGAACAAAAAAGGCCAAGGAG}$ AAAAGGAACCAAAGAGACAGGAAGGGACGGGAGGAGGGGGAC AA $A \operatorname{GAA} A G A G G A A G A G G A A A A A A A G G A A G G A A G A A G G G A G A A$ A A G G A A $\mathcal{A} G G G A A A A G G G G G G A A A A G G G G G G G G G G A A C A A A G G$ AAAAAAGGGGTAAGGGCAGGGAAAAAAAGGGGAGGGGGAGAA
 A A GAAAGGAAACGGAAAAGGCCAGAAAAAAGGAAGGGAACAA AA GAAAGAAAAGCCGAGAGAAGGAAAAAAGGAACAACAAACC GAGGGAAAGGGGAAAAGAAAGGCAGGAGGGGGAGCATAAAAC AACACAACGAAGGGAGGGAAGGCAGCAGGGGGGGCCAAGGAA

GAGGGAAGAAGAGAGGGGGGAAAAGGGGGGCCGGAAACAGBA

 AAAAAGCCGGGAAGAAAAGGAAGGGAGACCGGCCAGAAAGAT $G G C A A A G G G G G G G G G G G A A A G G G G C G G G G G A A C A A G C$
C G GAGGAAGAACACAAGGGGGAGAAGAGAAGAAACCAAGGG A ACCCCAAAAAACCAAAAAAAAGGGAGGGGGGGGGGAAAGGG A GAGAGAGAGGGAAAGAACAGGGGGGAGAGAGAAGGGGAATT CAGGAGAAGACCAAGCAAAGAAAAGAAGGACCAGAAAAAAAG A A A A GAAGAGGGAAAAGAAAAAAAAGCCAAGGAAAAGGCAAA A A A A G G G G G G A A G GAAAAAAAAGGGGGGAACCAAAAGGACAA A A A A G G A A A A A A G G A A A A G GAA $A$ G GAAAAAAGGAAG GAAAAAA
 G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G G G G G G A GAAAGACGAAGGGAGGAGGAAGGCCGGAGAGAGAAAA AA $A G G G G G A A A A G A A G C C G G A A A A C A A G A C G G G G G G A G A A A A$ A A G G G G G G G G G G G G G G A A A A A A C C G GAACAGGAC G GA G CA TA
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 A A A A ACAGCACCAAAAAAGGGAAAAGGGGGCCAAAGAAACAG GAAAGGCCGGCCACCCGGCAGGAGGGAAGAGAAAAAGAAAGA A A GAAAAGGGCCAAAGCCCAGGAAGGAAGGGGGGAAGGGGGG A A A A G G G G A A A A A A A A G GAA $A \operatorname{A} G A A G G G G A A A A G G G G G G G G A A$ A GCAGGGAGAAGAGAAAAGGCAAAGGGAAAGGAGGGGGAAAA CAATGGGGAAAGGGAAGGGGGGACTAAAGGAGACCCGGGGGA AAAAGGGACCCCGGGGAGAAAAGAAGGGAAGGAGAAAAAAGG G GACCCAAGAAAGGAGCCGGAACCAGGAACAAAGGAGAAGAA A G GAA A A GAGAGGAAGAGGAAAGGCAGGAGCAAACAAA G GAAA C CAA $A \operatorname{GAA} C \subset A A A A G G A A G G G A A G A C G G G G A A A G A G G A A C B A$ G G A A A A A A A A G G G G G GAGAGGACCGGAACCAAGGAAAAAA G G G G G G G A A G G G A T G A G G A G G G G A A A A GAC G GAC G G G G G G G G A G G G G G GA G GCCAGGGCCCAGGTTGGGAGGAGGAAACCGGGGAA AAAAAAGGGGCCAAAAAAGGGGCCGGAAAAAAGGGGAAGAAA G G G G A A A A A A G G G G A A A A A A A A $A \operatorname{GGGGGGGGGGGGAA} G G G G T A$ AAAAAGAAGACCGGGGGGAAAAAAGGAAGAAGGAAAGAAGAG GAGGCCGGGGCCGGAAAATAAAAAGGGAGGAGGGAGAAAAAA A A A A A A A A A A A A A A GGGGAACCGGGGAAGGAAAAAGAGAGAG A A G G G GAAA ACCCAGAGGAAGAGGAAAGGGAAGGAAGGAGAA GAAAGGAAAGGGAATACCGGTTGGCCCAAGGGGAAGAAAAAA ACGAGAAAGGAAAAGGCCAAAAGGAAGGGGGGGGGACAAAAAA
 AAGACCGGAGGAGAAGGGAAAAGGGAGAAGGAACAACCACCC G GAAGGAAGGAAAACCAAAGAAGAGGGAAAGGTTAAAACCTT A A G GAAAGAAAACCCCGGAGGAGGCAGGTTAAAAAACCBGAA G GAAAAGGCCGGAAAAACCACCAAACAGAGAGCAAAGGGGGA GAGAGGGGAGGAGAGAGGAAGGAGAAGGGGAAAAGAAAAA GAG GCGGGAAGGAAGGAAAGGAGCATAGGCCAGAACCCCAAAAAG ACAAAGACAAAACCAACCGGGGAAGGAGAACCAAAGAGAGCC
 C CAA $\operatorname{CAGGGAAAACCTTGGAAAACACGCCAAAAGGGAGAAAAG}$ A A A A A A A A A A A A G GAA $A \operatorname{G} G A A A C G G G A G G G G A A G G A A A G G G G G$ G G G A A A G GA A A A G G G G G GC CACAAGGCAGAGGAGCAAAGAAA AGGAAACAGAGGCAAGGGGGAACAAAAAGGCCCCAAAAAAAA

GACCAAGGAAAGAACCGAGGAGAGGGACGGCCCAGAGACACC GACACCGAAGGCGAGCAAGGAAAAAGAAGGAAGAAGAGAGCG AACAGGGGAAAAGACAAGGAAGACGCCAGGAAGAGGCAAGCA C CAC GAAAAAAACCGGCGAGGACAAGACCAAGAAGGAAGACA AC GAGGGGGAGGGAGGCAGGAGAAGAGGAAAAGGGGAAACAC A A G G A A A A G GCC $C$ G $\operatorname{A} A \operatorname{A} G A G G A G G G G G G G A A A G C A G G G G G G A A$ G G G G A G A A A A A A G G A A G G A A A A G G A A GAGGGGGGGAAA G GAA $C C G A C A A G A A A A A G G A G A G A G G G G G G A A G G A A A G G A G G A G A A$ G G A A A A G G A A G G G G G G G G G G G A A G C A G G T T G G A G C C G G G G A A GAGAGGGGGAGGATAAGGAAAGGAGGGGAGCCAAAGGGAACA
 A A GAA A G GCC G GAGACGGAAGGAAGAAAGGGGCC GGGGGGCC

 $C \subset C G G G C A G A G G G A A A A A C C G G A G A A A G G G C A G G C C G A A G C C$ AACCGGGACCAAGGAAGAACCAGCAGAAGAGGAAAACCCCCC A A G GAAAAAAAAGGAGAGGGAGAACCGAAAAGCCAGAAGGGG GAAGACAAGGAGGGGAGGGAGGGGGGAGAAGGGAAGGAAAAA $G G G A G G A G A A G G G G A G A G G A G G G G C A G G A A A A A G G A A A G G G G$
 GAGGAGGAAACCGACCAAGAGAAGGGCAAGGGGGGGAAACGG A G G G G G G A G G G G A A G G A A G GAAAA A G GAA GAAAA G GAACCCC G G G G G G G G G G A G A A A G G G G G G G G G A G G G C A A C G G A A C C A G G G CCGGCCAGACAAAACCGGGGGGAAAAGGCCAAGGGGAGAAGA AA G G G A A CAGAAAAAAAACCGGAAGGCCGGAAAAAAGGAAAA

 G GAGAA $A \operatorname{A} A G G G A C A G A G G A A G G G G G A G G G A G C C G G G G A G C A$ G G A A C A G G G A G A G G G G G GAGGGCAAAGGCCGGAAGAACCCAC $G G C C G G A G G G G G A C G G A A A A A G A G A G G G G A G G A A A G A G A G A G$ G G A G A G G A G A A A G G A C A A G G G A G G G G A C G A GA G A TAAA G G G G G G GAA A A GAGAGAGAGGAAGGAAGGGAAAAGGAAAACAAAGG GAA A A A A G GAGGAAAAGGAAGGGGGGAAAGGAGAACAAAAAG G GAACCGGAAGGCCCCGGGGGGACAGACAGGGGGAAAAGGCC G G G GAAGGAACCGGGGAAAGAAAAAAGACAAGGAAAAGAAAA AAGAGGAAGAAGGGGAAACCAAAAAGGGAAAACAGACCAAAA
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 G G G GAGAAAAAGAAAAACACAGGAAAGGGGAGGGGGAAAAAA G G G GAGAGAGACGCAGAAAAGGCAGAGAAGGAGGCCGAAGAC $C \subset C C A C A A G G A A G G A A A G C C C C A G G A G A A A A A A A G G G G A A G A$ AAGGGAGGAACCAAGCCCAAGGGGAAAAAAGGGAGGGGAAGG G G A A A A A A G G G A A TAGAC GAGAAGCCAGAACAAAGGGGCCAG A A A GCAAAAGAGTAAGACCCGAAAAGGAGGAAGGAAAACCCC $G G T T T T G G A A A A G G G G G A A G G C A G A A G G G G A A A A C C A G A A G B$ ACGGAAAAACGAAGAGAAGGGGAAAACCGGAACCAAAAAACC A AC G G GAA A G G G G GAAAGGGGGAAGAAGGGCACCAAGAAAAA GAAGCAAACGCAAAGAGGGGAAGGAGGGGGAACCAGAAAAGG A G G G G A GACCAAGGGGCCAATAGGGGAGAAAAAAAGAGAAAG
 G G G GAGGGAGAGACAGGGAAGGGGAGTAGAAAAAAAGGAGAA G GAAGGAACCACGGAAGGGAAAGGGGGGGGAAAGAAAAGAAG AACCAAAGGGGGCCGGGGAGCACAGGAAAGAAAGGACAAAAG G G A G G G G G G G G G G A G A G GAGGACC GAGAGGGAAGCCAA G G G G AAAAAACCAAAAGGAGAAGAGGAGAGAAGGGGACAGGAAAAG A G G GA A A G A GAAAAAAGAAGGAAGGGGAAAAAAGGAGAAGAG G GACAGAAGGAAAGAAGGTTAACCAAGGCCGGAGACAGAGAA
 G G G G A A C A GAGGCAGAAAGGAGGCAAGAAGAGGGAAAAAAAG $G G A A G G G G A A A C G A G A G A A G A A C A A G A G G G G A G G A A G G A A G G$ G G G GAGAGAACAAAGGAAAGAGGGAGGGGAGGAAAACCACAA GAAAAAAAAAACACGGAAAAAACCAAGGAAAAGAGGG
G G GCCAAAAGGGGAGGAGGCCAAAACAGACCGGAACAGBAC G G G G G A C C A A C C G G G G A A G GACAAAAGAGGAAA G GA GAA GAC
 C A A A G G A A A G G A G A A G A T G A A A A A A G C C G G G G G G G A A A A G G A G GAA A G G G G A A A C C G G G G G G G G G A G A CAGGAAGGCCAGATA G G GAAGGGGAAGGAACCAAAGACGGCCAAAAGAGAAGGGAAAA AA $A \operatorname{GA} A A A A A A A A A A G G G A A G A G A G G G G G G G G A C A G G A C A A G$
 $A G C A G A C A G G G G A A G A G G A A G G A G C A G G G G A A C A A A A A A A A G$ G G GAGGAACAAAGGGGAGGAGGAAAACAAAAACCAAGGGGCA AACAGCGGAAGGGGAAAAGGAAGGGGACAAGGAGAGAGAAAA AAAAGGAAAAGGAAGAAAAGCCGGAAGGAAAAGGGGACAAAA G G A A A A G G A G G G G G A GCAACGGGGAAGGCCAAACAGACAGGG GAAAGGGACCAAGGGGGGGGTTGACGAAGGCCAAGACCAAGG
 $G G C C G G A A G G G G A G A G A A G A G A G G G A C A A G A A G A G C G G G G G G$ $A C C C A A G G G G G G A C A G G G A A G G A A G G G G A A A G G A C A G A A A A G$ ACAGAAACAGGGGGCAAAGGGGCCAAAGAAGGAGAGGGTTAA GAGGAGCCGGAGGGGCGGAGGGCCAGCAGGGAGAAGAACAAG
 G GAGAAAAGAGAGGAAGCAAGGCAAAAAGGAGGGAAAAGAAG G G GAAAGGGGACGGAATTGAAAAAAAAAAGGAACAGAAAAAA A A A A A A G G G G G GAAAAGGAAAAGGCCAAAGAAAAAGCCGCGG AAAAACGGAGAACAGAAGGAGGCCAAAGCCGGCCACAGAGAG A GAA A GCCAAGGGAGAGGCAAAGGAAGGGGAAAAAAAAGGCC AAAGGGAAAAGACCGGGAAAGGGAGAAGCCGGGGGGCAAAGA AC G G G GAA A G G G GA GAGGACAAGAGACCAAGGGGGGGGGAAA GCAAGGGGACCCAAACGGAAGAAAAGGGAGGAGGGGAAGGGG GAGAAAAAGGGGGGAAAGCCAAAAAACGAGAATAGGGAAAGB A A A A A G A A A A A A A C A A A A G G G G G G G GAAAA A G GA GA G GA GA C $G G A G A G G C G G G G A G A A G G G G A A A T A G G G G G A G G G A G A A C C G G$ G GAAGGAAAGAAGGACGGGGGGGGAGCAAACCAAGGAAAAAA $A G C A A G G G G G G G C A G G A A A A A A G G G A G A A A A G G G G G G G G G T T$ A A G G A C A GAA $A \operatorname{AGGGGGGAGAAAAACAAGGGACAAAAAAAGAA}$ G G G G G A A A A A G GAA A A A G G G GAAAA A A A G G GA G GAA G G GAAA A AAACCCGAGGGGGGGAAAAACCGAAGCCAAAGTTGAAAAAAA
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 AAAAGAACCCCCCGAGGAGAAAAGGAAGGAAAGCCAAAAGGA

ACC GAGAAGGGGAGAGGAACCAGAGGAAGACGGGGCCGGGGA A G GCCAAGGAAGGGGAAGAAGGGAGAGACGGAGAAAGGAGGA A A A A A G A A A G GAAAAACAGAGCCGGAGGAGAAAAAGGGAAAC AACGAACGGACAAAGGAAAGGAGGAGAAGAGAGACAGACAGG A G GAA AA G GAGGGGGGGGGGGAAGAAGAGGGGATTGGGAGGG A G G GA GAA $\operatorname{GAACCAGGAAAAAAGAACCAAAGGGCCGGCAGGA}$ AAAAAGGAAGGGGAAAGGGAAGGGAGGCCAGACGGGGGGGGA GCAGAAAAACCAAAAAAGAAAAAAAAGAGCCAAGCAGGAAAG G GAGGGAACAGCAACCCAGGGAAGGGGAAGGAAAAGGTTAAA GAAGGGGAAGGAACCGAGGAAGAGAAATTCCGGGGCCAGGGA A GAAGCAAGAAGGAAGACAAAGAAAAAGGGGAAAACCGGAAG A A G A A A G A A A G GAAAGGCAGAGGGGCCGGGGGGAAAAACAGA A G A GAACGAAAAAAAGGCAGGGAGAAAGGAAAAAAGGGGGGG GGGGAGAAAGAAACCAAAAGGGGGGGGCCGGAAGGAAAAAAA A G G AAAAAAGGAAAAGGGGGGAACCAAGGAAAAAAGGGGCAG A GAAGAGGGCCCCCCGGAGGGGGGGGAGGAGAGCAAAAAGGA A A A GA GACAGGAAGGGGCCAAGGGAGGGGCCGGTTGGGGAAA G G GAAAAACGGGGAACAAAAAGGAAAAAAGGCCGAAAGGGGA GGCAAAAGGAAAACCACGAGGAAAGGACCGGGGAAGGGGCCA ACCAAGGACGGAAAAAAGGGAAAAAGGACAAAAAAAAAAGAC AA AAAGGAAAAGGAGGGGAGAGGAGAAGGAAGAGGAAGAAAG G GAGGGAAAGGGGGGACAAGGGGCACCGAGATAACAAGACGG A G C A A GAGAGGGGAAGGGGGGAAGGGGAAGGAAGGAAAAGGC C G G G G A A G G T T A A A A G G G G G GAAAACCAAAAAAAACCAAGGG GAAGGAAAAGGAACCGGGGAAAGGGCCAGAAAACCAAAGGGA GAAGAAGAGGAACGAAAAAAACCGGACGGAGGAGGAAGGGGA AAGGGGGGGGAAGAGGAACAGCAACAAAGAGGAGAAGGAGGA AAACCCCAAAAAACAAGGAAAAAAGGACCAAGACCAGGGGGA GCAAAAAGGAAGAACAAGGAGAAGGGAAAAGAAGGAGGGAGC A A G G G G A GAA $\operatorname{ACC} C A G G A A A G A A A G G G A G A A A A G G C C A A A G G$ GAAGAGGAAAAGAGGGGAATAACGGGGGGCCGAAGGAAAAAA AGGGAGAAGAGTAAGAGAAGGGGGGAATTGGCCAAGGGAGAC AAAGGAGAAAAAAGAAAGGGGAAGGAAAAGGTAGGGGAGGGG GAAGAAAGGCCAAGGGGGGAAAAAACCGGGGAAGAACAGGGG GAACGAGACGGCCAAGGGGCCAGAGCAAGAAGGCCGGACGAA AGAACCCAGCAGAGAAGAAAAAAAACCAAAAGGGGGGAAAAA G G G G G G GATAAGGGGGGGGAAGGAAGGGAGAGGAAAAACAAA A GAAAAAAGGAAGAGGGGGAAGGGGAGGGCAAGGGGAGGGGG G G G G G G G A A G G A A A A A A G GAAAAAAGGAACCGGCCAAGGGAA A A A A A G G G G G G G G G GAACCGGGGAAAAAAGAGGCAAAAACCA A G G A A A G A G G GCCGGGGCC GAAAAAAGGGAGGGGGTAAGGGA A A GCCCAAGAAGGAACCAAGGGGAGGGACAAGGGGGGGGAAA AAAACAGAGAGAGAAGAGGAAAACCAAGGGGCCCCGAGAAAA AAAAAGGATCAGAAGAGACAGGGAAACGAAAAAGGCCAGAAA A A G GA G GA G G G G GAAAAGGGGAAAAACGGGGAAGAAACCGGG GGGAGAGCGAAAAAAGGGGAAAAAAGGCCGAACAACCAACAA A A A A A A A A A A G GCGAGAGAGGGGAAGGAAAAAACCAAAAGGA A G GAAAAGGGGAGGGACGAGGAGGGAGAAGGAAGGCCCCGGA A G GAAAAAGAACCGGAAAGAAACGGAGGGAAGGCCAGGGAGG GGGAAAGCCAAAGAAGAAGAAAAAAGAGACAAGGAGAACGGA A G G G GAAAAAAAAACAACCAGGGGGCCCCAAGAGGCCAAGAG GAAGGGAGAGAACGGCCGAGAAAACAACAGAGGGACCAAAAG GAAGGGAGGAAAAGGAAAACCAAGGGGAAGGGAGAAGGACCG GGGAACAAAAACCAAGGAACAGAGACCCCGGCCGAGGGGGGA G G A A A A A A A A A A A A GAAAGGGACAGAAAGGGAAGAAGGAGGG GAAAGGGCCAACCCCGGCAGGAAGGAAGGGAAGGAAAGGGAA GGGGAAAGAAAGGAAAGCAGAGCAGAAGGAGAAAAGGCCAGA A A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCG GAAGGAAGGGGAAAAAGAAGGGGCCAAGGAAAAAACCCAAGA

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 AA GAAAGGACAGAAAAAAAGGGAAGGGAAGAAAAAAACAAAA $A C C C A G A A G G G G G A A A A A G G G G A C C A G A A G G A G A G G G A G G A A$ AGGAGAAGGACAGAAAAGGAAGGAACCGGCCAAGAAGAAAAC C G G TAA A A A G G G G GAGAGGGAAAACAGCAGAACAGGGGAGGG G GACCAAAGGAAGGGAAGGAGGGGAGGCXAGAGAAGAACGAG GAAGGGGGGGGAAGGGGAAGGCCAACCGGCCAAGGAAGGGGA A A A G G G G G G G GCC G G A A A A C CAA G GAAAAACAAAAAAAGGGGC $C \subset C G G A A G G A A G G A A G G G G A A A A G G G G G G C C A A G G G G G G G G G$ GAAAAAAGGAAGGGGAACCGGGGAAAAGGAAAAAAGGCAAAA A A A A A G G A A G G A A A A $\mathcal{A} G G G G G G G C C T T A G A G G A A A G G A G G G A$ G GACCAAAAAGAACCGAGGAGCACACCCCCCGAAAAAACGGG GAAACAAGGGGAAAAAAGGGGGGGGGGGGCCAAAGAGGAGAA C C C A A A A A A A A C CAA $A$ A A G G GA G A A A A A G G A A A A A A A A A A G G G $A T A G A G G A A G G G G A G G A A G A G G G A G G G A A C C G G C A A C A A G G G$ GAAGGGGGGAAAGAAGGAGAACCAAAGGAAGGAGGGGACAAA
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A A GACGGGGAGGGGGAGCAAGGGCCAGAAGGGGAGAAGGAGA G G G A A A A A A G GCC G GAAAAAAAAAGGCCAAAAAGAA GACCGGG G G G G GCGGGGGAGAGAAGGGGCCGGCCGGCACCGGGGGGCCA A A GAGGGAAGAGGAAAAGGGGAAGGAGAAGAAAAAAGACAAA GAC $\mathrm{C} G \mathrm{G} A \mathrm{~A}$ GAAAAAAGGAAGGGGACAGGGGAGGGGGGGGGGGG G G GCCAAAAG A A ACCATAAAATTAGGAATAAAAGGAAAAAAG G G A G G G G A G G A G G G G G A G G A G A A A G A A C A G G G G G G C C G G A G G GAAAAGGGGGGCCCCCCGGAAGGAAAAGGAAGGGGGACAAAA GAAGGGGAAACGAGGAAGGCCGGGGAAGAAGAACAAGGACAG G GAGAAAAAAAGGGGGGGGAAGGAAAAGGGGGGAAAAGGCCA A G GCCGGGGGGAAAAAAGGGGGGAAAAAAGGGGAAGAAAAAG GAAAAAAGGGGGGGGCCGGCCAAGGCCGGGGCCGGGGAAGAA A G G A A G G A A G G G G A A C CAAA A A A G G G G GAAA A GAA A A A A A G G G AAAGGCCTTACACGAAAAGAAGGGGAAACAAAAGGATAAGGG GAAAGAGAAGAAAAGGAGAGAAGAAAGCAGAGGAGGACAGGA AAAAAAAGGAAAGAAGGAGCCGGGACCGGAGGAAAAAGACCA AGACCCCAAGAAAAAAAAAAAGGAAGGGGAAAGGGGGGAAGA A G G A G G G A G A GCC C G G G G G GAAGAGCGAAGGAAAAAAA AAAA AGAGGAAAAGAGGGGCAAAAAGGAAAAAGGAAAAAGGGAAGA G GAGGAAAGAAAAAAGAAGGGGCAAAGGAGAAGGAAAAAGGA GAAA A G G G GAAAACAGAAAGGGGAAGGAACAAGGGGAGAACA G G GAACCGGGGTTAAAGAAGGAAAAGGGGGGAAAGAGGGGAG G G G G G GAAAGGACAACCAAAGAAAAAAAAGGAACCCCGACAA A A A A G A $\mathcal{A} G G G A G G G G A G A G A A G G A A G G A A A A G G A A A A G G G G G$
 A G G GACAGGAAAGAAATGGAGCAGAAAGGAAGGGGAGAAGGC CAAAACCGAAAGGGACAAAACGAGGGAGGAGAGAGGGGGGGG $G C C A A G G A A G G A A A A A G A A G G G G A A G A A A G G A A A G G A A G G A A$ A G GAA $\operatorname{A} G C C A A G G C C C C G G G G A G G G A A A A G G A A A A G A G G C A A$ CAAAAAAAGAGCAGAGAGGGGGGAAGGAAGGGAAAAAAAGGAC C CAA $A \operatorname{GG} \operatorname{GAAAAGGAGCAAGGGAGGGGGCCAGAAGGGGGAAAA}$ GAAGGGGAACCTTGGCCCCGGAACCAAAAGGAAAGGAGATAA
 GAAAAACAGAGGGAGGGAAAGAAAGAGACAGAAAAGACAGBA $G G G C G G G G G G G G G A G G G T T A A A G G A A G A G G A A G G A G A A C A A A$ A A A G A G G A A A G A A A A GAGGAGACGCGCGGAAAGGACAGAGAA GCAGGGGAATTGGGGGACCGGAAAGACCCAAAAAAACAAGAA A G GAA A A CACA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A C A G G G G G G G A A A A A A A G A G A A G G C G$ AACGGGGCCGGACGAAAGGACGAGGAGACAGGGAGAAAAGGC CAAGGGAGGAAAGACGAAAGAAGAGCAACCCGGCCCCCCGGC AAAGGAAAAGGTTGAGGGGCCGGAAGAGGAAAAGAAAAAAGG $G C C A A A A G A A G G A A G A G A T A G G A G A G G C C A A A G A A A A G A G G A$ A GAGGAAAGGAAAAAGGAAAAAGAGCCGGGGAAAAAAAGAGA AAAGGAAGAAGAGAGGAGACCACAGCAGGGGAAGAAAAAGGG GAAGGAAAAGAAACAAGAAAAAAGAAGAAAAAAAAAAGAAAA A A A A G GAAA A A A A A GAGGGGGAAGGAAGGACGAGGGGGAAA G $G C C A A A A G G G A A C C C G G A G A A A G G A A A C A A A G G A G C C G A G B A$ G G G G G T T G GCCGGAGGAAGAAAGAAAAAACGGGAAAAGAGAA AAAGGCCCCGGAAGGGGCCGGGAAGCCGGGAAAGGGGAAAAA GAAGGACAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGGAAAG GAACCGGGGGGAACCAAGGAAGGAAAAAAGGGGAAAAAAAAA A G G A A C C A A G G G G C C G G G G G G G G A A G G G G A A A A G G A A A A G G G GCCGGAAGGGGGGAAAAGGAAGGAAAAAAAAAAAAAAAAGGG GAAAAGAGGGGAAAGGGGGAAGACAGAGGAAGGGGGAAAGGG G G G G G G G A G G A G G A A A GAC G G A GAA $A \operatorname{AGGA} G A A A G G G G C A A A C$ C G GCCGGGAAAAAAAGGAAAAGGAGATAAAGACGAGAGAAAA A G G C C A A A GAAAC GAGGCAGAAGGGGGCCGAGGACTTACGGA A G G G G A A C A GAC G C C A G G G A A A A G GAA G G GA GA A A G A G G G G T TGGGGCAAGAGAAGGCAACGGAAAACCGAGAAGGGAGAAAAG

GAGACTTAGAAGGGAACGGAGAAGGAAAGCAAAGGAGGGGAC C GAAACGGGGGGAAAAAAAAGAACCAAAAGGGAGGGAAAGBC
 AGAACGAGACCAAAAAGGAGGAAGAGGAAGACCGGAAGAAGA AAAGGAAAAAGACGGAGGAGGGGTAGGAAGAAGGACC GAA GA A A A G G G G TAGGAGAAAGAAGGAGAAGGCCAAAGGGGGAAAAC CAGAGAAGAGACACATTCCGGGGAAGGATCCCCCCAAGAGAA C GAGAAGAGAGGGAAAAGGAAAAGAAGAAAGGGAGGACAGGA AGGAAAAAACCGGAACAAAGAAGAAAGAAAGAAAAAAAGGGG GAGAGGGGAAGGAGGAAGGAAAGAAGGAGGGGGAAGGGAAAA
 GAGAACAGGAGAGGGGGGGGGGAGAAAAGGAGGAGGGGAAGA $T G G A A T T G G A G G G A A G G A A G A A A A A G A A G C C C A A A A A A G C C A$ A GAA $A C A C C G G A A A A A T G A G A A A T T T A A C A A A A A A G G A A G G G$ G G G GAAAAAAAAACGGGTACCAGAGACGGAACCGGGAAAAGA G G GAAAAAAGAGGAACCGAAAGGCCAAGAGACCAAAGAAAGAA G G G GACCAGCAAACAAGGGCAGAGAAAAAGGGGAGGGGGCCC C G G G GCGGGGGAAGACCAAGGGGAGGGAGAACAAAAGGAAAG $G G A G A G G G G A A A G A A A G G A G G A A C C G A A G A G C C A A G G T X A C A$ GCCGGCCGAAAAGAAAAGGGGAAGGGGAAAACAAACAAGAGA GAGAAGGGGGGAGAAAAGGAAAAAAAGAAGGGGAAAAAATTG ACCAGCCAAAGAAAAGAAGAAGGGAAAAGAAAAGGAAAAGAA A A GAC $\mathrm{C} A \mathrm{~A}$ GAAGGGGGGGCCAAGAAGACCGGAGAGCCCCGGG G G G G A A C A GAA $A \operatorname{GG} \operatorname{G} A A A A A A A G G G G A A G G G A A G A G G A G G G G G$
 TAGGGGGCCGGGGGACCGAACCAGAGGCACAACCCAAGGTAT TGAAAAAGGCAGACAAGGAAGGGAGAAAAGAGAAAGGGGGGG GAAAAAAGGGAAGGAAAAACCGGCAGGAAGGAAGGACAGAAA
 AGGGGACAAGGTTGGAAAAAAAACCAAAGAGAGCAGAAAAAC CAAAAAAGGGGGGAGAAAAAGGAAACCAACCGGTTAAAAABC AGGAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAAAAAGGGA A G G GAGGGACCGGGGGAGGGAGACCACACGACATTGGAAAGAA AAAGGAAAAGGAAAAAAAACCAGAGGGGGAGAACAGGGAABAA AAACCAAGGAAGGAGAAGAAGGCCAAGGAGAAGAGAGAACAA A A A A G A A A CAAAAAGCACC GAAACCGGGGACAGCCCAAACAA GAGCCAGAGGGAAAGCCGAAGCCGGGGGGAGGGAGGAGAGAG $G C C G A A A G G G A G G A G A C A G A A A A C C G G T T G G A A G G C C G B G A G$ A A G T A G G A A A G G G G GAGAGACAGGGAAAAAAAAAAAAAAAAA GCAAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} A A A G A G G A G G G G A G G G G G A A A G A C A G A G C A C A A$ AAAAGCCAAAAAAGGCCAAGGCCAGGGCCAGAGAGGGAAAAG GAGAGAGAAGCAGAGAGAAAGAAAAGACAAAAAGGGGCCGGA GAAGGAAAAATGAAAAACCGGAAGAAAAAAAGGAAAAGAGAA AAAGAGAACCAAACAAAAGAAGGAAAAGGAACCCCAAGAAAC AAGCCAAAGAACAAAAAAAAGCCGGAAAAAAGGCCAAGAAGC C G G C A G A A A G G A C A GCCAAAAGGACAGAAGGGGGGAAGAAGG
 $G G G C C G G A A G G A G A G A A G G A C A G G G A A A G G A G C G A A C A A A C B$ A GAAA A A GAAGGGAGCCGGAAAACAAGGAAGGGGAATAAAAA $A C C C C G G C C A G G A G G G A A C A A G A G G A A A A A G G A A A A A A A A A G$ G G G G G A T G A A A A A G G G A A A G G G G G A A A A G G GAA A G C CA G G A A A G G G G G G G G GACC G GAAACAGACGGAAGGAAGGCCGGAAGAA A A C G G G A G G G G G G A A G G G G A A A A G G C C A G A G G A G G A A A A A A AAAAAGGAAATCAAAAAAAGAAGGGAGGAAACCATGAAACAG GAAGGAAAAAAGAGGGGCCCCGGTTGGAACACAAAGGGGGGG G G G A A A A G G G GCGCCGGAAGGAGGGGGAAAAGGAAAAAAGGA A G G G A G G G A GAA A G G A GAAAAAAGGGAAAGGAATGGGA
GAAAGGGAGAGCGGAAGAAAGGGGGGGGAACCGGGGAACCG AAGCCAAAACCGACCAAAGGGCAAGAGAAAAAAAAGGGAAAG

G G G GAAGGAAACCAGAGGAGAAGAAAGAAAAAAGGAAGAAAG G G GACCAGGGGAAAAAGACGGAGACAAAAAGACGGAAAATXG G G G G GAAGGCAAAGAACGAAACCAAGGGGGACGAAAACCAA T TAAAACCAGGAGGAAAAGGAACAAAAAGAGGAGAGGGAGCAG
 A G GCCAAGGGGAGAACACCGGGGACAGGAAGAGGAGGGGAGG G GACAGGAAAAGGAAAGCAAGGAGGACAGAGAGTTCAAGAAG G G G G GCCAAGGGGAGGAAACGACAAGGGGAAGGAAGAAAAGA A G G A G C C G G A A G G A G G G A G A G C C A A A G G G G GAAAA A G G G G G G G G GAGGAACAGGGGCAGAAGGGAAAAAACCAAAAAAGGAGAAG GAAGGAGACAGGGCCAGGGCAGAAGGGGAAGGAAAAGAAAAA G G G G A G G A A A A G G G G G C A G G G A A G G G G A A G G G G A G GA GAC C C C CAA A A G GAA GAGACAAAGAAAAAGAGGAAAAGTTCCAGCCG G G G G G A A G G A C G G A A G G G G GA G G G G A A A A A GA GAA A A A G A G A C G G A A G G G GAAA A A A G G GAGAGAGGAGACAAAAAAATGGGGA A A A G G A A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A G A A G G G G G G C G A G C C T T G A G G G$ G G G G G A G A A G G GAGACCGGAGGGCCGGAACCAGGAGAGAAAG A A A A A A G ACAA A ACCAAGAAAAAGGAATTACCAGGAACAAAC CAGAGAGGACCGGGAGGGGCCAAGGGAAGAGAAAAGAGAAAA C T T G GAGGAAAAGAGAGGGAGAGGGAAAGAACCAAAAAGGAG G G GCCACAAAAGGAGGAAAAGAGAAAAAAAAAAGGAAAAGAG AACCAGGGAAAGGAGGAGCGAAGGAAGAGAAAAGGGGAAAGA A A A A A A A G G G G A A G G G A A C GAGGGAACGGGGAGACGGCCGGG G G G G G A G C C G G C C G A A C G G GA G G G G A CA $A G G A G G G A A C A A A G$ $G C C A A G G C C A A A A G G A A A A G G A C A A G A G G A A A A A C G G A G G G G$ AAA A A A GAGGGAAGGAAAAGGAAGGGGAAAAGGGGGGGGGGG GAAGGGAGGACGACCGGGGGGGGGGGACCGAGGGGGAGGGGC CAGAAAAAGAAGGAAAAGGAAGAAGGGGGCAAACCACCCGBA A A A A A A A G G G G A A GAA A G G GAGGCAAGAAAGGAGGGGCCGGG AACAAAGGGGGGGAAAAAAAAAGGAGAGGAGCAGAGAGAAGA GAGCC GAA $A \operatorname{A} G A G G G G G G G G G A G G A G A G A A A G A A G A G G G A A A A$ AAAGGGGAAGAAAGAGAACCCAAGGGGAAGGAAAACCCAAAA C GAGGGGAAGGAGCAGAAAGGGGGGAAGGGGAACAAAAGGGG ACCGGAAGAAAGAGGCCGGGAAAAGGGACGGGGAAGAAAAAG G G A G A C C G G G G G G G A G A A A G G G GCC G A G A G GCCAAAAA A A G A A A A A A G A G G C C A $\mathcal{A} G G G G G A G G G G G G A G G G C C G G G A A G A A A A G$ GAAGGAAGGGGAAAGGGGGCCGAAAGAGAAAAAGGAAAACCG GAAGGCAAGAAGGCCGACCACGGAAAAGGAAGGCCGAGAACAA A A G A A G GCCAGCCAGGGGGGGGGAAAGAAAACCGGAAGAAAG A C C G G A G A G G G G G G A A A G G T T G G A A A A A G GA GA G G A C G A G G A AAAGGGGCCACAGGAGAAGAAAGAGGGCCAGGACCGAAAAAG GAAAAGGGGGAGAGGAAGGGGAAAGAGGGCCGAAGAGAAAAA GAAAAAAGAGGAAAAAGAGAGAGGAGGGACCGGGCGAAGGGG G G G A G G G A G G G A G A C G G A G G G G G G G A A G GCC G G T T G G A A C C A A A A A A GAA $A \operatorname{G} \operatorname{A} A A A G G G A A G A A A G A A G G G G G A G A C A C C A A A A G$ GAGGGGGAGAACAAAAGGAGGGGGAAGGGGGAGAGCAAACCB C GAGAAAAAAGAAAGCAGGAGGGGAGAAAGAGGGGAGGACCB G GAAAGGGGAAGAAAACAAGAAGGAGAGAAACAAAAAAACCG
 A A A A CAAAGAAAGCAGAGGGAAAAGGACCAAAGACAAAAAAG AACGAAGAACAAAAAGGAAAAGGGGAGAAAAGGAAAAAAGGG GAAAACCAGAAAAGGCCGGCCGGAAAAAAGGAAAAAAAAGGA A G G G G G G A C G A G G A GAA $A \operatorname{GGGACCCAGAAAGGGGAAAAAGAGC}$ C GAGAAAGAGAAAAATAAGAGGGCCCCGGGAGAGGAGGAAAC G G GAGACGGGAAAAAAAAAGGGGAGAACAGGAAGGAGAGAAA A G G G G A A A A A G A GAGGAAAAAAAAAAGCAAGGAAA GGGGGGA C G GAGGGACAGCAAGAAACAAGAGGAACCAAAAAAAGAGAGA A G G A G G A C C G G C C C C G G G A A G G G G G G G G G A A C C A A A A A G C C A $A G G G G G G A C G A G G A A G A G A A G A A G G A A A G G G G A G A A G A G A A G$

G GAAAA A A GAA G GAAAAAGAGAAGGAGAGGGGGGGGGAAAGG G GATAAGGGAGGAAAACAAGGAGTACCGAAAAAACAGGAAAA A A A A A A A A A A GAAGAAAAGAGAAACGGGGAAGGCAAGAAAAG A G G G GA A A A G GAA G GAAAAAAAAAGGCGAAAGAGGAGGGAAAG AAAGGTTGGGAGAAAAGAACAAGGGGGAAATAACCAACCGCC C G A A A G G G G G G G G A G G G G A C A A A A GAG GAA A GAA A G G C C A A A
 G GACAAAAACCAGGAACGGAAAACCGAAAAGACCCGGGGCCG GAGAAAGGAAAGAGGGGCCGAACAAAGAAAGGAGGAGGGGGC AAAACAGAAGGAGGAGCGGAGAAAAAAAAGAAAGGAAAAGGG GAAAAGGGAGGAGGAGAGAAGAAAAAGAACCAAGGAGAGGAA $A G G G G G A G G G G A G A C A G A A A A G G A G G G G A A A G G A A C C A A G G G$ GAGGGAAAAGGGGCCAAAAAAAAAAAAAAAAGGAAAAGAGAA $A G A G A A A A G G G A G A G A G G G A A A G A G A G G G G A G A A G A C G A A G B$
 GAAGGGGAGCCAGAGGGAAGACAAAGGGAGAGAAGAACAAGA GA $A \operatorname{GA} A A G G G G G G A G G G A G G A G A A A G G G G A C G A G G G G G G G G G$ G GACCAAAAGGAAGCAGGGAAAGCCGAAGAAGGGGGGAAAAA A G GAGCCAACCCCAGAAGGGGCAGGAAAAGAAACCGAGAAGG G G A C A A T A G G A G G G A A G A A G G A A G G G G G A A G G G G G A C C A A A G GAGAAGGAGAGGGGGGGAGAGGGGGAAAAAAAGCCGAGGGGC C G G A A A A A GAGAAAGGAAGGGGGAGGGAGAGAAAAGAAAA GA
 GAAAGGGAAGGGAAGCAAAAAGGAAAAAGAAGGAAAGAAACA T GATTGGCCAAAAAACAAAGAGAGAAAGGAGGGGGGGAGAAG A A A A G A GAGAGAGGACAGAAAAGCAGGGGCCGGAACCGGGGT TAAAGGGCAAACCAAAACCAGGGGGAAAAAAAGCAGGAAAAA
 A GACAAGAAGGAAAGCAAAGGGGAAATGACCGGCCGGAACCG GAAAAGGGGGGCAAGAGCAAGGAAGCCAGAGGGAACAACAGB C A G G G A G A G A A A G G G G A A G A G G G A G G A A G G A G A A T A G A G A G A AAGGAGGGGAGAAGAGAAGAAAAAGAAAAAAGGGCACAAAAG
 GACGACCGGAGAAAAAAAACAGGGAAACCGGAGAGAAGAAGC C G GCCAGCAAAACGGAGGGAAAAGGAAAAAAGGGGAAAAGAA
 GAAGGAAGGGAGGCCAGAAGAAAAGATAAAAAGAGCCGAAGA GCAGGAGAAGAGAAAAGCCGGGAAGGAGGAAAGCGGAAAAAC $C \subset C A A G G G G G A A G A G G G G G A A G G G G G G G G A C G A A A A A G A A A G$ G G GAA A A A GAAAAAAAAGGCCGGGGAACCGGGGGGAAABAAG G GAGCGCCAAGGGAAGAGGAACAAGGAGAAGAGAGGGAAAAG GAAGGAAAAAAAAAAGGGGGGGGGGGAGGAAACAAGBCAGGG GACGAAAGGCCGGAAGGAAAAAAAAAAGGGGGACAGAAAGGG GTTGGAAAAAAGAAAAAAAAAACGAAAGGAGGAGGAAGGGGG $A C C A A A G G G A A G G A A A A T T C C C C A A A G G G G G G G A A A G G A A G G$ A CAGACACAACGACCGGGGGACCAAGGAAGGAAGGGGGAABA ACCAAAAAAAAGGAAAAAAAGGGAGAGAGGAGAGGGAGAA GA AAAAAAAGACCGAGGAAGGGGGGGAGACAGGGGGGAAAAAAA AAAAACCAAAGACGACAAAGGGGCCGGGGACAAGGACBAGAA $A C C A A G G G G A A G G C A G A G A T A G A A A A G A A G A G G G A G G A G C C A$ A A A A C C G A G G G G G A A G G G G A C G G G G G G A G A A A A A T A G G A G A G GAAGAAGAAGGGGGGGAAAAGAACCGAAAGGGGAAGGCAGAAG
 G GAGGAAGAAAAGAAACCCGAAACCAAGGAGGGAGAGGGAGG GCAGGGGGGGAGGGAAAGGGAGAGAACGGCAAGCGAAGGGGA G G GAACCGAAAGGGGAAGAGGCCAAAAACAACCCCGAAAAAA G GAAGAGTAACGGATACGGAAAAGGGGGGAAAAGGGG
AAAAAGAGAAGAAACCGGAGGGGGGAGGAGAAAGGGGGAAA GAAGGAAGAAGAACGGGAAGAGGAAGAAGGAAGGGAAAGCAA

G G GAA A GAAAGGGGACAAAGAGAAGAGGGGACCGAGAAAAGA G G G A A GAAAAAGGCAGGGGGGGGCCAAGGAAAAAAGGCAAAC C A A A A A A T TAA $A \operatorname{A} A A G G G G A G A A G A A A A A C C G G G G G G A A G G G$ A A A A A A A G G G G G GAGAGGGAGGGCCGAAAGGAGAAG GAGACA GAAATAGAAGGAGAAGAAAAGAGGAAGAGAGAGCCAAGACAA

 $A G G A A G G A A G G A A G G G G A A G G G G A A G G A A A A C C C C G A A A G G A$ A A GAA A G A GAGAGAGGGAAAAGAAGAAAAGGGGGGGGAAAAC G G G GAGGCAAAAAGAGGAAGGAAAAAGAAGGGAAAGGACAGA GAAAAGACCAGAAAGCAAAAAAGCAGGAGGGAAGAAAGGGGG $G C C A G A A G G A A C A G A G A A G G G A A A A G G A G G A A A G A G A G A A A G$ A A C A C C C G G G G A G A T G G G A A GAGCAAGGGAAGGAA G G G G G G G A C G G G G G G C A A G A G A G A GCAAACCGGGAAACCAAGGAGA G GA G AAAAAGGAAGGAAAGCCGGAAAAAGAGAGAGAGAAGGAAAAG GGGCCACAGGACAGGAAGGAAGAAGACCAGGAGAAGAAAAGAA
 GACGGAGGGGAACGGAATTAAGAGGGGGGCCGGAAGAAAGAA A G G G GAAAAACACGAAGGAAGGAAGAGGGGGGAGGCCGAGGG GCCCCGGGAGACCGGAAAGGGACAGAGCAAAGGGGGABAGCC CAGAGAGAGACAAACAGCAAAGGGGAACCAGAGGGAGGGGGG GCACACCAGAAAAGAGGGAAGAGGGAAGGCCAAGAGGACCCG GAAGGGAAGCCCCGGAGGGAAAAGAGGAGAAGGAAAGAAAGA
 G G G G G A A A A C C G G G GA $A \subset C G G G G A G G G A A A C G G G G C C G G G G G$ A G G G GAAA A G G G GAC $A \operatorname{A} G A A A G A A C C G G G G G G G G A G G A A G G G G$ G G G G G G G G A A A GAA A A A GAAA A A GAGGGGAAGGCCAAA GGGG G G G GAGACCAGAAAAACGAGAGAAACCGGAAAAAAGAAGAGG $G C C A A G A A G A G A A C C A A G A A G G G G G A A A A G A A G G G A G A G G B A$ A G G G G A GAGTTAGGGAAAGGAGGGGCCAAGAAGAAAAAAAAG G G G A A A G G G G G A A G A A A A A G A A G A G G G C A G G G G T A A A G G G G G GAGAGGCAAGGAGAGGGCCGGAAAGAGAGAAGGGGACCCGGA GAGGGAACCGGCAAGGAGGGGAAGGAGAAAAGGGAAGAGAGT
 $T G G A A A A G G G G G G G G G A C C G G G G G G A A A G G G G G A A G A C A A A C$ CAGGGGGAAGAAAGGGGAGACAAGGCCAAGAGAAGAGAACAA AAAACGGGGGGGGCAGGGGCCGAAAAAAAAGGGAAGGCAGAT TCCAAGGAAGGAGGGGAGGGAAAGGGGAAGGGAAACCGGGGA A G G G GCAACAAAAACAAAAGGAAGGCCGGCAGGGAAAGATAC CAGAAAAAGAAAGGAAACCGGGGAAAACGCCCCGACCAAABC C G A GAGGCCAAGGGGGGGGAGAGAGAGACCCAAAAGAGGGGG GGCAGCACAAAGGTAAAGAAAAGGGACAAGGAAGGAAGAGGA AAAAAGAAACAAAGGCGGAGAAAAGGAAAACAGAAAAGGGGA G GAGGCAGACCGGAACCAAAAAAAACCGAAGAAGGGGGAAAAA G G GAGAGCACCAAAAGGGACAGAGGAAAAGGGGGGAGAACAC C G GACGGCAAAGGGAGAGAAAAGCCGGGGAAAAGAAAAAAAC CAAA $A$ A A A $A$ A A $\mathcal{A} G G G A A A C G G G A G G G G A G A G G A G G G A C A A G A$ GACGAAGAAGACCACGAACGGGAAAGGAAGGCACCAAAGAAA A G G GAAAAAAGAAAAGGACACAAAAGAGGAGGGAGAAAAAAA GAGGAGGGGAGAAAGAAGAAAGGGGGGAAGAAAGAGGCAAAC CAAAGGAAGGGGGAATTAAAAAAGGAAAACCAAGGCCACCAA AAAGGAAGGAAGAGGGGAAAGAGCGGGGGCATAAAAAAACAG $G G A A A A A G G G G A A G G A A A A G G G G A G G G G G C C G G A A G A G A A G G$ A G GAGAGGGAGGGGAGGGGGGAAAACCGGGGCCGGAACAAAA AACGAGGCCACAGAGAACCAAGGAGGGAAGGGCGGGGGAAAA GAAAGAAGGGGGGGCAGAGGGAAGGGGGGCCAAGGAACCGGG G G GAA A A A A A A A GAGACGAAGAGAATAAACCAGAAAAAGCAG G G A A A G GCCCAGGGAAACAAAGAAAAAAGGGAGAA GAAACAC $C \subset C G A C A A A G G A A A A G G G A A G G G A A A A G G A G A A A A G A A C A A C$

CAAAGACGGGAGACCGGAGACAAGGAAGGCCGGGAGAAAAAA GAAGGCCAGAACCAGGGAAAACCGGGGGGCCAGAAGAACTAA A A A A A A A G G G G G G G G G A A G G A G A G G G A G G G A A A A A T T C C A A G A G G G GACAAACAGGAGGAAAGAAGGAGAAGAAAGGAAAAAGC CAGGAAAGGAAAAGAAACAACGGACGGGGAAATAAAAAAAGA CAGGAGGAGCCCCAGAGCCGGAAGGAAAACCAAAAGGCAAGA G G A A A A A C C A G A A A A A G G G A A A A A A G G G GACGGGGAGAGAC G GAAAAGAGAGGGGGGGGGGGGGGAACAGGGAGGGGGGGAAAG A A G A G A A G G C C A A A A C CAACCAACCCCGGCCAAGGAAAAAAG G G GAAAAGGAACCCCAAAAAAGGGGAAAAAAAAAAGAGGAGG GAGAAATGGGGCCGGGGGGGAACGGGGAAAGAGCCACABAAC A GAGAAACCGGAGAAGGAAGGAACCGGGGAAAAGGAAAAAAG GAAGGGGGGAAGGGGCGAAAAGGAGCAAAGGGGGGAAGAAGA
 GAAAGCCAAACAAGGGGAAAAGGAAGACCGAAACAGAGAATA G G GCAGAGGAGAGAAAAGAGGGAAGCAAAAAAAAAGAGACCA A A A G GCAATAAAGGGGGGGACGAAAAAAAGGACAACAAGTTA GAGAAGAAGGGGCAGGGAAAAGAGAGGAGGAAAAGAGAAGAA AGGGGAACCAAGGGAGAAAAAGGAGCGGAAACAGGAAAGGGA AAAAAGGAAGATAAGAAAAAAAAAACCAAGGGGAAAACAAAG GAAAAGGGGAGGGGGCCAGAGGAGGAAGGAAGGAGAACAAGA GAGGGAAAGAGGACAGAGGGAAGAGAGAACCAGAAAGTXAAG
 G G G G G G G A A A A C C G G G G A A A GAA A G G GAC G G GA GAA A A GAA A A A A G G A A A A G G A A G G G G A A A A G G CA A G A G CAAACA A G G A CA $\mathcal{A}$ GAGAAGGGGAAGGAAAAGGAGGGGAAAAAAAGGAAAGBACCG A G GAAAATTAAGGAAGGAAGGAAAAGGGAAAGGGGGGTXAAA ATAGGGGGGGGAACCAGAAAGCAGAGGAACAGAGGGGGACCA
 C C CAGCAA GAGCAAGGGAAGGCAAACCGGAGCCAGGGCAGGG G G G A A G G G G A G G G G G A G C A A A G A A A A A G G G G C C G A G G A A G G A AAAGAAAGAAAAACCGAAGCAGGAAGGGGGGAAGGGGGGAAG G G GAGGCGGAAGACCGGAGGGAAAAAAGGCCGGGGAAGAGAA
 G GACCGGAACCGGACCCGGAGGGGAAGAGCCACCAGGAGACB GAAGGGACCCAAAGGAAAAGGGAGGAGAACAGAGGAGGAG GA G GAGAGATTGGAGGGGAAAAGGACGGACAAGGGAAAAAAGAG GAAAAGGCAAAGGAAAGAAGGGGGGAAGAGGAAAAGGGAGAA G GAGGGAGAAACCGAAAAAGGGGAGACAGAAGGGGGAAAAAA G G G G G A A G G G A A A A A C C G G G G A A A A G G G G G G G G A G G A A A A $G$ C A G G G A G G C C A A G G G GAACAAA $A \operatorname{A} A A G G G A A G G G A A G G G G A C A C$
 G GAGAGGCAAGCCGGGGAAAAGGTTGGGGGGGGAAGGCAAGG GAAAAGGACAGAAAACCACAGAACCGGGGAAAAAGAGAAABAA A A A A A A A $\mathcal{A} G G G C A A A G G G G G A G G A G C C G A A A A A A A A A A A A A G$ A A A A A A A $\mathcal{A} G G A G G G G C C A A G G G G G G G G A A A A A A A G C C A A A A C$ CATAGGGCAGAAAAAGGGCGGCCAAGAGGCCAAAACCAAABC
 A G G G GCCGGGGAGGGGGAGAGAACAGAACAAGGGGGGAAGAA A A CAAAGCACAGGAGGAAGCACAAAGAGGAGCAAAAAGAGAA $A C C G G G G A A G G A A A A C C G G G A G G G A A G C A G G A A G A A A A A G G A$ AAAGGAGGAGGGGAAAAAAAAAAGGGACAGAAAAAGGAAA GAG
 GCCGGCCAACCAAAGGAGAAGGAAAAGAGGATTGGGGCAAAAA AAACCAAGGAAGGAAAAAAAAAAAACCGAAGAAGGGGAAAAG G G GCCAAGGAAGGAGAGAGGGGGCCCCAGACAGAAAAGAAAG GAAAAGGAACCCCAAAGGGCCACAAAGCAGGGAACAA
A G GAA A A G A GACCAGAGAAAGGAAAAGGGGAGGGCCAGGGA GAGAAGGGGAGAAGGGGCCAGACGGAGAGAAAGGAAGAAAAG
$G C C C A A A G A G A G G G G G G A C C A G G G G C C A G A G G G G G A A A G C A G$
 CAAGAGGAGGAAGGGAGGGGAAGGGGGCCAGAGGGCCGAACC $A C C A G C G C C G G A A A A G G A A A G A G C C G G G A G G G G G G A A G G A A G$ GAAAAGGAAGGCAAAAAGAGGGCAGAACCAGGGAAGGGACAC CAACCAAAGCAAAGAAAAAGGGGGGGGAGAGGGAACAGACAA CAC G A A A A G GCGGCCGGGGCCAGGACAAAAAAA GGGGGGGGA AAAGGACAAAAGGAAAGGAAAAAGGAAGGGGGAGAGGGGGAT AAAGGAAAGGGAAATAATACAAAAGCAGAAGAGAGCAGAAAG GAACCAAAAAGGACCAGGACGGAAAGGGGCCAAAACCCAGAC CAA $A \operatorname{GA} A G A A G A G G G G G G G G G A G A A C A G G A A G G G A A G A A A G G$ $A G G G G G G C C A G A A A C G G A G G G G A G A G G A G A G G A G G A G A G A A A$ AAAGGGCGGAAGGAAAAAGAGAGGAGACAAGCCCAAAGAAAA ACCCCCCAGAGGAGGAGGGAAACGGGGGACCAAAAAAAAA G G A A GAA A GAGGAAGCAGGACAGCAGGAGAGAGAAGGGGGAAAG GAAAAAAGGGGGGAGGGAAAGAGAGAGGAGGGGAAAAAACAG AA $A$ A T G G G A A A GAGGAACAGAAAAAAGAGGAGAGAGGGAAA G GAAAAGACAAGGGCAGGAAGAACAACAGAGGAAAAAGGGGGA G G G G G A G G GAA $A \operatorname{GGGAAGGAT} T A G C A G A C G G G A A G A A A C A G A A$ A A A G G A G C C G G A A G A G G GAC CAAGGAGAAAGCCGGCAAAA GA AGGAGAAGGGGGAACCAGGGGAGGGGGAAGAAAGAAGAAGAA
 A G G G G A A A A G G GAAAA A GCCGAGAAGCCGGAAAAGGGGGAAAA A G G A G G G A G G A A G G GAAA A G G GAAAAGAGAAAAACAAAGGGGA G GAGGGAGAAGGGGAGAGAAAAAGAGAGGGGACAAAGACAAA G G G G G A G G T T GAAGCCAAAAAAGGGGAAGGCCAAGGAAGAAAA
 A C C G G G C G G G G G G A A A GAGGGAAGGGAGGAAGGCCCCAAAAC
 C G GAACCAGAGACCCGGGGGGTAAAGGGGGGCAGGAGGAACA A G G A G A A $\mathcal{A} G G G G G G A A A A A G G A G A G A A G G A A A A A A C C B G A G G$ GGAAGCCAAGGAAGGCCGGGGAAAAAAGGCAAAACGAAAAAA $A C C A G C C A A C C A A C C G G G A T A A A A G C C G A A A A A G A A G A G G G G$ G G G A G A G G G A T A A A C A A G G A G G G G G G G G G G G G G G G A A A A A A T
 C GAA $A$ A A G A A A GAGGACAGCAGAAAGAGAGGGGGGGAGAGAC A A GAGGAGGGGCCGAGGGGGGGGAAGGCCGGCCGGGAAGGGG A A A G A G G G GAGGGGAGGTTGGAAGGAAAAAAAGAAAAG GTTG GAAGAAGGGAAATAGCCAGCCGAAGGGAACCGGAGAGATACA $G C C C C A A A A A A A A G G A G A A G G G A A A G A G G A G A A G A A A A A A A A$ $A G G G G A A G G G G G G A C G G A G A A A A G G G G G G A G G G A A G A G A C C G$ A A A G G G G A A A G G C A GAAA $A \operatorname{AGGAAGGGGAAGGAGAAAAAAGAT}$ TAAA A A G G GAA A G GAGGACGAAGCCCCAGAGAAAAAGAGGAG G GACCAGCAAGAGAAAAGGAACCGGGGAGGGAAACCCGAAGG
 CACAACGGAGGGAACGGGGAGGGGGAAGGGGCAAGAAGGGGA A G A GAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAA $A C C A G G A G A G A A A G G C G A G A A G A G A A G A A G G G A A A A A G G A A A$ ACCAAGAAGGACCCCGGGGAGAAGAAGAGGGGGAGAGCAAAA GAAG A A $A \operatorname{A} \operatorname{A} A G G G G A G G G A G A G A G G G G G A G A G G G C C A G C A A A A$ A G GAAAAAGGAAAGGAAGGAGAAAACCGAAGAGGGCCAGAGG GAAGGAAGGGGAAGGGGCCAGGAGACCAGAGCCGGAAGAAAG GAGAAAAAAAAAAGGGAACAAAAAAAAAACCGAAGCCGAACB A A A G GAGGAAAGAAAGGACGGAGAAAAAAGGGGCGGGAACAA A A A A A A A A G GAAA A G G GACTAGAGAGGGGAAAAA GAAAAGAA A G G G G A A G G A A A A A A CAAACC GAGAAAGGAAGGAAAAGACAC
 G A A A A G G A A A G G G GAGAAAGGCGGAAGAACGCCAA GAA GA GA GCAAAAGAGGAAGGAGAGATTGGAGAAAAAAAAAAGGAAAAG

G G GAAAACCAAGGCCGAGGAAAAAGCCCCGGCCCAGGAAGAG
 AAAAAGACAAAAAGGAAAAAAGGCCAACGGGGGAGGACACAA G G GAGAAAAAAGGGGAAAAAAAAAAAAAAACAACCGGCAAA G G G GAGAAACAAAAGAAAAAGGAGGAGGAGAGGAGGGGAAAAA TAAAAGAGGAAGAGAAGAAAGAACAAGGGAAGGCCGAAGAAG G G G G GCC G G A A A A A A G G A GCC G G GAGGGAGGA GAAA G GAA G G AAAAGAAAGGGCAGGAAGGGGAAGGAAGGGGAAGAGAAAAAA
 $C G A A G A G C C A A G G G G A A A G G G G G G G A A A A A A A A A A G G G G B A A$
 $A C C A G C A T A A A A G G G G A A A G G G A G G A A A A G G A A A A G G G G G G G$ G G G A A A A G A GAGGGGAAAAGGCCAAGGCXAGCAAAGGCCCCA GAAA A $A \operatorname{A} A G \operatorname{A} A G G G G G G A A G G G G G A A G G A A A A G G A G G G G A A A G$
 A G G G G A A A A A A A A A A A A G G G GAA A GAAAA $A$ A G G GAA G G G G C C A A A GAGAAAAGGGAAACCGGAGGACAAAAAGGAGGCAGAGGAG A G G A A A G A C A A GAA A GAAAGAAAAGGGCAGAGAAAGAAAACA $A G G A A A A G G G G G G G G G G G G G G A A A A C C G G G G G G A A G G G A A A A$ A A A G G G G A A C C G G A A A A C C A A G G G G A G G A G G G G A A C A C A G A A GAAAAGGCAAAGGGAAAGGGGGAGGAGAAAAGGGAGGAGAGC AACGAGAGAAAAAGACCAAAGGGAAGAGAAAAGACACATGAA G GAACGAGGGAAGAAAAGGAAAAAAAGGGGATAGAGAGAAGA A A A A A A A G A A G A G A G G G A A A A A A A A GAAAA A GA GA G G G A T T C C C CA $\operatorname{ClG} \mathrm{G}$ CACACCCCGGCCGGGGGGAACCGGAAAAAAGGGGA A G G GAGGAGGACCACGGAAAAGGAAGAAGAAGGGGGAAAGGG GAGGGAGGAAGAAGGGGGGAAAAGGAGAGAAGGGGCAAGGGG G G G G G C C G A G G G A A G A A G A A A G G G GAGGGAGGCATCC G GAA G GAAGGAAGACCACAGAGGGGAGGGGCCAACCAAGGAGGGGGG A G GAAGGCAAGAGGAGACAAAAAAAGGGGAACAGGAGGAAAA GTTGACAAAGAAAGGAAAAGGCCAAAAGGACGGAAAGGGCCG G G G G G GAAGCCCAGAAGAAAGAACCGGACGAAAGGCAAACCG
 $A G G G G A A G G A A A A C C G G A G C A G G G G G G G G A A G G C A G A A G A B A$ $A G G A C A G G G A A G A G A G G G A A G G G G G G G G G G G G A G G G G G G G G G$
 GAAAAAGCCGGAAAAGGACGGAAGGAAGAAAACAAGGCACCB A A A A G G G A G G GAA A G G G GAGGCCGGCAAGGAAGGGAGAAAAA
 GAA $A$ GAAAA $A \operatorname{A} G A A G G A G A A G G G G G G A G A G G G G G A A A G A A G G G$ $A G G G G A A G G G G A A G G G G G G G A A A A G C G G A C A G A G G G A A G A A A$ A G GCCCGAGAAATACAAGAGGAAAAGAAGGGGGGGAAAAAAG
 G G G G G A A G G G G A G G GCCAA G G A A G G G A GAGGGAAA G GA G G G A A G A A A A G A CAA $A$ A A G CATTCCAGCCGAAAAAAGGGAAAAGGA A G G A A C C A A A A $\mathcal{A} G G G G G G G G G G G A A A A C C A A G G A A G G A A G G G$ G G G G G A A G GAA A G G G G G G G GAGAGAGGGGAAGGGGAAAAAAA A G G G G G G G GAAAAAAGGCCAAAGAGGATAAAAGGAGGGAAAC CAGAGAAGGAAGGAAAAGGAAGGAGAGAAGGAGGGGAGAAGA G G G A A GAA $A \operatorname{GA} A A A G G A G A C G G A C G A G G G G A G A C G G G B A A G A A$ G G G G A A G G G G A G G G GAAAAAAAAAGGGGAAAAAGA G GAGAAA G G
 A GAAA A GCAAACCGGAAAACCGGGGCCGGAGAAAAGGGGGGA AAAGGAGGAGGGGCCACCCAAAAGAAAAAACAAGGGGAACCA GAAGGAAAGGAGAAGGAAAGGCCGACAAGAGCAAAAAGGGGA A G G G G A A A CAGAAAGGGAGGGCGCCGACAGAAGGAAGACGAA A A A C A G G G GAA $A \operatorname{AGGGCCAGAAGAAGGGGGAGAGAGGG}$
G G G G A A G G G G G G A A A A $\mathcal{A} G G G A A G G G G A A A A A A A A G G A A G G G$ $G G G G G A A A G G A G G A A G A A G A T A A G A G G G G G G A G A A A A A A G A A$

G G GAGAAGGCCGAACACGAGAAGGGAGGACCGGGGAAAAGAA G G G G A A C A G G G G A A G A A GA GAGAGAGGGGAACCGGAAAA G GA A G G A G G G G G G G A G GACCAGACAGGAGGCAGAGAGAGAAGAAA G GAGGAAAAGGAAGGGGAAACAAAAGGAAAAAAAGGAGGGGG $G C A C C A A A A A A A A G G G G G G G G A A A A A A A A A A G G G G G G G G T A G$ G G G A A A A G GCCAAAAGGAAGGGGAAGAGGAAAAACAGCAGAG G G G A A A A C C A A A A A A G A GA GAGGGAGGGGGGAGAGAGGAGAA AGAGGCAAAGAAAAGAAAAACCCGGGGGGGAGAGAACAAAGA CACAAAGGGGAAAAGAGCAAGCAAGAAAAAAGGAGAAGGGGC CAAGGGAAAAATTAAAGGGAAGGATGAGGGGCCGGGGGGGCA G G A A A A G A G G A A G G G G G G G G A G A G A A G G A A A G G G G A A C C G G G G G G A A G G A A A A G G A A A A G G G G G G A A G G GAA A A A G GAAAAC C A A C C G G A A C C A A G G G GA $A \operatorname{GGGGGCCAAAAAAAAAAAGGGGCCGGG}$ G G G A A G G G A A G A A A A G G A A G G A A G G G G G G G G G G C A G G T T A C G G G G G GAGGGGGGAAACAGAAAAGGGGGAAAAAGGGGAGAGAG GCCGGAAAAGGAAGGAAGGAAGGGGAATTGGGGATGAGAAAA AAAAAGGGGAAGGCCGGAAAAAAAAAAGGGGAGAAAAAAAAG G G A A A G G A A A A G GAAAAGGGAGGGACACCAGGGAACACAGAA A G G A A C C G G G G A A A A G GAA A G G G G G G G G GAAAA A G C C G GAA A A A A G G A A G G G G A A G G A A A A C C C C G G A A G G A A A G A A A G G G G A A A GAAACAGGAACCGGGGAAGGAAAAGGCCAAGGAAAAAACCA
 A A A G G A A C C G G G G G G G G G G G G A A A A G GAAAAAAAGAACAAAA A G G A A G G G GAA $A \operatorname{G} G A A A A G G G G A A A A A G G G C C G G A A G G A A A A A$
 A G G G G G G G G G G A A A A G G A G A GC G A GCCA GA GAA A A G GA G G G A A G G G G A A A A A GAGAGGAGAAGAAGGGGAGCAAGGGGAAAGAA
 A A A A A G G A A A A ACATCCGGGGGGAAGAGAGAAAAAAAGAGAA AAAAAGGAGCAACCAAAAGGAAAGGAAGGGGAAAGGAGAGAA GCAGAAGAGAGAAAACCAGGAGGCCCAAAGGGGGAAGAAGAA GCAAAAAAAGACCAGGGAAAAGAAAAAGGAGAAGACCGGAGG $A C C A A A A A A G G A G A A G G G G C C G G A G G A G A G G A A C A A G G A G A A$ A G G G G A G A G G G A A A A A A A A GAGGCCAGGAAGGGAGGAAAAAA
 A ATCCAGGAGACAAAAAAGAAAGCCGACAA GAGGGAGGAC GA A A GAGGGGGAGAAGGGGAGAAGAGGCCGAGGGAAGGGGAGGG GGATACCGAAAGAGGAAGGAACCCCAACCAAGGGGAAAAGAA
 A G G G G A A C C G G A A GAGGAAAAAGAGACGAGACCA GAGA GACA GAAGAAAGGAGGAAAAAAGCCGGAGAAGAAGAACCAACCCCA A GAGGGGAAAACCAACCAAGGAACCGGCCGGAGCAGGGGGGG GAAAGGGCCACAAGGCCAAGGAAGGGAGGGGAGAGAAAGGGG G G G A A G G A A A A GAACGAAAAAGGGGGGCCGGGGAGGGCAAAC $G G A A G A A G G A A G G G G A G G A A A G G A G A G C C A A A G G A G G G G G G A$ GAAAGAGCACCAAGGAAAAGGGGAAAGAAGGAAAAAAAAGAC A GAAAAAAAAAGGAAGGAAAACCCCGAGGGAGAGAGAGAGGG AAAAAGGGAGAAGCGGGACAGGAGAGGAAGACCGCGGGAAAA GAGAAAGAACAAAAGAGGGGAAAGGGGGAGAAATTAAAAAAC A GAGGGAAAAAGGGAGAAGAGAGAGAGACGAAGCCGAAAAAA A A A A G G GACGGGGAAAGGGAAGGAAGGGGAAAATXAACACCA A GACCAAAAAAGGGAGAAATTCCCCGAGGAAGGAAACTTAGG GAGGAAGAAAAGGAAGGAACCGGAGGAAGGGAAAAAAAAAAA A G G GAAAGGGGAAGGGGAAAGACGGGGGAACGAAGAGAAACA CAACAGAAGGAAGAAAGAAGGGGGAAAGGAAAAAAGAAACCC ACAAGCAGGAAAGGAGAACAAGGGAAGGCGGAAGGGGGGGGG GAAAAGGAAGGGACCAAAACCAAAGAACCGGAAAAACAAACG A A GCC C G A A A A A A G G G A A A CC G GGGAGAACCAAAAAAAAAA G $G G A G G A G A A G A G G G G A C G G G A C A A A G A G G A G A A C C G G A A G G C$

C GAAGGGAGTTGGGGAAGGGGACAGAAGGAGAAGGAAAGAGC A G G G GCCAAAAAAAAGGAGAGGAGAGGAAGGGAGACACACAA A G G G G A A A GA $A$ A $A C C G G A A A A G A A A A A G A G G A G C C C C G G G G C$ CAAGGCCGGGGGACCAAGGGAAAAAGGGGAGAAAGAAAAGGG GAAGAGAGGAAACGAAAGGAACAAGAGAAAAGGGGAAAAAAA GAAGAGAGAGGAACAAAAAGGAAAAGGCCCAGAGGGGAGACA A A A A A GACAAGAACCCCCAAACAGAAGGGAGTAAAGGCCGGG $G G A A A A C G G G G G G A A G G A G A G C A G A G G G A A G A G A A A A G A G G A$ A A A G G A A A A A G A G A G A T G A GAACGGAAGGGGGGAA GA G G G A A G A A A A A G G GAAGCCAACCGGAAGGGGGGCCGAAAAGGGGAATG A A GAAA A G GAACCAAAAAAGAGGAGCAAAGGCCAAAACCGGA A G GAA $A \operatorname{GGG} G \subset A A A G A A A A A A A A G G G G A A G G G G A A G G G A A A A$ A A A A G G G A A A A A A T T A A A A A A A A GAGGAGGAGGAAG GAAAA G GAAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGGGGGGGA A A A GAGGAAGGAAAAAGGGAAAAAAACAGAAAAAGAGGAAAA AAAAAGGGGAAAAAGAGAGGAAAAGAAAGAGGGAAAGGAAAA $A G G C C A A A A A A G G G G A A G A A A G G G G A A G G A G A A G G G A G A G G G$
 C C C T TA GAAAGAAAAAAAAGGGGGGAAGGGGAA G GAAGGGGG G G GCC G G G GAA G GCCAACCGGAAAAAAAAAAGGGGGGCCGGG GAAGGAACCAAGGGGCCGGCCGGCCGGCCGGGGGGGGAAAAA A G GCCAAAAAAGGAAAAAGGAGAAAGAGGGGAAAAAGGAAAG G G G G G G G A A G G A A C C A A A A G G G G G G G G C C G GAA A $\mathcal{A} G A G G G A G$ GAAGGAAAAGGAAAGGAGGGGAAGGGGACCCAGAAGGGAAAC CAACACCGGAAAGGGGGAAGAGGGGCCGAGGAAAACAGAAAG A A ACCAAAAAAGAGAAACCCCAGAGACGGAAGAAAGAAAGGA AACCAGGGGGGGGGGGGAAGAGGAAGAAGAAAAGGAACCGBA
 GAGGGGGAGAAGGAAGGAAGGGGGAAAGGGGAACCAAAAAAG G G G G GAAGGGAAGCAAGAAAAAAGGAAACAGAAAGAGGACC G G G GCCAAAGGAAAAAAGCCGGAACCGGAAGGAAAAGGCAAAA AAAAACCAAAAGGAGGGGGGGGGGAAAAAAGAAGGGGAACAA
 G G G GAAACCCCAACCGGAAGGAAGGACAAAAAACAGGGAAAA AAACCGGAGAAAAAACGAAGAAACCGGACAAAAGBAAAGGGG G G A G A G G G G G A A A C C C C G G C C A GAGAA G GAA A G G GA G C CA G A G G GAACCAACAGGGGAAAACCAAAAGGGGCCCCGGGGAAAAA AAAGGCCGGAAGGAAAGGGCCGGGAGGAAACGGAGGGGAAAG
 C G G A A A G A C A C G G A C G G C C G G G G G G G G A A G G G G A A C A A A A G G GAAGGAGAAAGAACCGGAAGGAACCCCAAGGAAGGCCCAAAA
 G G G G G G G G G G G G G A A A G GAAACC G G G G GA G GAA G G G G G GAA A G G G G G A G A G G G A A A A G A G G G G G G A A A G GA G G G A G G G A A A G G G $A G A G G A A A A G A A A A G C C A G G G A G G A G G G A G G A A G G A G A G G G G$ G G G G G G G A G A G G G G A G G G G G G A A G G A A G G A A A A A A A A G G G G A A G GAGAGAGGGGAAAGAAAAAGGAAAGAAGGACAGGGAACAA GAGCCAGAGGAAGGGCCAAGGGGAAGGAACCGGGGAGAGAGA GCCGGAAAAAAAAGGGGAGAAGGACAGCAAAAAAAGGGAAAA A G G G GAA A G G GCCACACAGCCCAACGGAAAAAAAGGAAGAAA G G G A A A G G GAA $A \operatorname{GAAAAAAAAAAAGGGAAGATGAGGAAGGGGA}$ GAGAGAGAAGGAAGGCCAAAAGGGAAAGGAGAGGAGAACGAA GAGGGGAGGCCGGGGGAGGAAGGACGGGGCCAAGAAGAAAGC ACAGAAACCCCCCCACAGACAACAGAAAAAAAAAAGGGGGGA AAAAGGGCCGGGGAACCGGAAGGGAGGAGGGAAAGGGCCGAA ACCGAGAAGAACCCCAGAAAGAAAGAACCAACCCCGGGAAAG GAAGGGGAAGGAAGGCCGGCCAAGGGGAAAAAACAAG
 $G G A A A G G A A A A A A A A C A G G G G A G G A A A A A A A G G A A A A C A G G G$

GAGACGGAAAAAAAAAGGGGAAGAGAAAGAGGAGGACAAGAA $A G G A A G G G A G A G G A C G G A A G G G G G G G G A A G G G G A A G G C A A A A$ A G G G G A G G GAGAGAACAGGGGAAAACCAAAGCAAGAGCAGAC $C \subset C G G G A A C G G G G A T G G G G G G A A A A A A A G G A G G G G C C A G C A A$ AA G G GAAAGAAGGAAAGGGAAAGAGAGAAAAGAGGCAAACAA
 GAA A G G G G A A G A G G G G G G G A A A G G A G G A A A A G G A A G G G A G G G AAGAGAGAAAAGGAAAAGGGAAGACAGAGCCGGAAGGGAAAA GACGGGGAAAAAAAAAAAAAAGGGGAAAACCCCGGGGGGGGG G G GAAGGAAAACCGGGGGGGGAACCCCGAAGGGAGAGGAAAG
 A A G G A A G G G GAAGGGAAAAGGGAAAGGAACCGGGGAAAAAGC A A GCCAAAAAGAGGGGAAGAAGGGAAAAAAGAACAGAGAAGG A GAACGGGGAGAAGAGAAGAAGAAAACGAGGGGAGCAGGGGG G G G GAA A GAGAGAAGGAACGGAAGGCAGGACAAGACCCAGGA CAGGAGGACGAGAGAGGGGGAAGAGGGAAAAGGGGGAAAAC G $A G A A G A G G G A A G G G G C A G G G G A A G G A C C A A G G A C A G G A C G G G$ GCCGAAAAAGGGGGAAAGAAACCGGAAAAGAAGCAGGAGGGG $G C C A G A A G G A A A A G A G G A A G A G G A A A G G G G A A G A G G G G A A A C$ A A A G G A A C G G G G C G G G G A A A A G G G GAAAA A G G G C A A G G G A A G A G GAGAGAGAAGAAGGGAGAAGGAAAAAAGAGAGAAGGAGGA A A A G G GAA A A GAGAACGGGGGAAATGGAAGGAGAAGGCCCCG G G G A A G G T TAACA $\mathrm{T} A \mathrm{~A} A \mathrm{~T} A \mathrm{~A} C A A G G A A A C C A A A A G A G G G A G A G$ GAAGGAGAAGGCCGGAGGGGAGGGGAGACAAAAGGCCAACCG GCAGGGAA GAAGGGGGGAAAACAAAAGAGGGAAAAACCAGGT TAA A A A A G GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A C A A C C G G G G C A G G G G G G C A G A A A C$ A GAGGGAGAAAGGAAGAGGGGGGGGCGACAACGTTAAACAAG G G G G A G G A G G G G G G G G G A A C C A G A A A GC C G A A A G A A A G G A A G G G G G A G G A C A G A A G GAGGGAGCAAAAGCGCCAGAAGAAAAAA GAAAACCAAAGAGGGGGAATTAAAGAGAAATAGCCAAAAGEG
 G GAAGGGGGGGAAAAGGAAACAAGAAGAGAAGGATCCAAAGG G GAAA A A G G GAGGAAGGGGAAACGGGGAGAAGGAGCCGGGAC AGGCAAGAGGACCAAAAAAGAAGAAAGGGAAAAGGCCATGAG A A GACAAAAGGGAACGGAAAGGAGGAAAGGAACAAAA GAAAA $A$ GAACCGGGGGGAAGGAAGGCCAAGGAAAAGGAAAAAAGGGGA A G GCCAAGGGGCAAAGGGGGGAAAAGGAACCGGAGGGCAAGA G G G G G G GCAA G GAGGAAAGGAGAGGGGAAGAGGAGGGABAAA G G G G G G A A G A G G G G A A A G G A C A A G G G A A GAA A G GAC C G A C A G GCAGGGAAAACCAAAAGGGAGAGAATTGAAAGGAAGGGAABAA $A G G G G A A C C A G A G A G G G A G G G A G A G G G A A A G G A G G A G A C G A G$ G G G G GCC G GAGAAGGAGAGACAGGAAAGAGGGGGGAAACCCC C G G GAGGGAAGCCAAGGAACCAACCGGGGAAAAGGAAAACCA $A C C A A C C A G A G G G A A G A C A G A C A G G G G A A C C A A A A A A G G G G A$ A G G G G A A G A A A G G C C G GAGCCGGAAAAGGGGACAA G G CACA GA
 G G G G GAGGAGGGACCGGAAAACGCCAAGGAAAAGGAAAGGGG G G GAAAAGGAAGAAGGAGGAAAGTAGAGAAAGGAGGGGAGAA G GAA A A A A A G GCC G GAAGGCAGAAGATAAGAAA GGGGAAGAT TAACCCAGAGGACAGAGAAGGAAAAGGCAAGACAAACAAAAG G G G A G A A G G G G GAGAGGCCGGAGGGAAAAAGGGAGAAAAGAA
 G A A G G G G G G A A A A T T C C A A G G G G G G G G G G A A G G G G G G G G A A A A GAA A A G G G G G G GAAAAAAAGAGGGGGGGAAACAGGAAACCC C G GAAA A A A A A A C G G G GAA $A \operatorname{AGGAGAGA} \operatorname{A} A C G G G C C G G G A G A A$ $G C C A A A C A A G G A A C A A G A A A G C C A A G G A G G G A C A A G G G G G G G$ A G A A A A A G GCCGGGGAGAAAGCCAACCGGGGCXAAAGAGAGG A A $\mathcal{A} A \mathrm{~A} G A \operatorname{A} G A A A A A G G G G G G G G G G G G A A A A G A G G G A A G A A G A G$ GAAAAGGGGGAACGGGGGGGAGGGGAGGGCAAGAAGAAAAAG
$G C C A A A G A G A A G G A A G G A A A G C C G G A A G G G A G A G G G A G A A G A$ $A G A G G A A A G A G A A G A A A A A A G G A C C A G G G A G G G G G G G G G G G G$ $A C C G G A A G G A A G G A A A A T T G G G G G A G G G G G G G A G G G A A G A G A$ A GACCAAAAGGGGCCGGGGGGAAAAGGGGCCGGGGCCGGGGA $C \subset C A A A A G G G G G G G G A A A A G G G G A A A A A G A A G A G G G A A A G G A$ A G G A A A A $\mathcal{A} G G G G G A A A T A C A A A A A A G G C C G C C A A A A A A A A G$ GAGGGAAGGAGGGGGGGGCGGAGGGAAGGAAAAGGAACAAAG GAAGGGAAAAAGGAAGGGAAAAGAGGGAGGAAAGGAACAAAG GAACCAAACAGGGAAACAGAGGGGGGGCCAAAAGGGGGGGGG1 GAGGGCCAAAGAGAAAGAAGGCCGACAAGAGGAGAAAAAAAA A A A A A A GCCAGGGGGCCGGGAAACAGGAGAATTAAGAAAGAA A G A A G A A G G A G A A G G A G A G G G G G G G G G A C A G A G C A G A A A G G G GAAA A GAAA A G A A A A GAGGGGAATTAAGGAGAAGAAAGAGAA A A A G G G G A A A A A A G A G G G A A G G A A G G A A A G G C C A A A A G G G G C AGGGGCCGGCCCAAAGAAAAACCCCGGAAAAAAAAGAAAAGA GAAAAAAAGCCGGGGAAAGGGAGAAGGAAGAGAGGCAAGAC G GA $A \operatorname{G} G A G G A G G G G G G G G C A G G A C A G A G G G G G G G G G A C A A A A A$ CAAAAGGAGAAAAAACCAGGGGGGAGGGAAAAAAAGGCAA GA C G A A G T T A A G G G G G G G G A C G G A A G G A A G G A GAA $A$ G A A C G A A A AAAGAAGACGGAAAAGGAAGAGGCACCCCCCAGAAAGGGGAA GAAGGGGGGGAGACCGGAGAAAAAAGGAAGAAAGGCAAGAGA A G G G G G G G A A G A A A A G G A GAAAAGGAGGAAAAAAACCAACAG A A C A A A G A A GA A G GAGGGGAGAAGAGGAAAAGGACACAGGAG A GAGGAGACAAGGAAGGGGACGGCCGGCACCGGAAGGAAAAA

 GAAGGGAGGGGGGAAAAAAGGCGATGGAAGAAGGAAGGAAAG GAATTACAACCAAAGGGGGAGGGAAGGAAAGAACAAACAGGG GAACCGGGGAACACAGGAAAAAACCAAAAAAAAAAAAAGAAA GAAGAACAAAAGAAACCAAAGAAGAGACCAAGGGGAAGAGAA $A C C A A A C G G A C A A A A A G C A G G G G A A G A G G G A G G G G G A G A A A C$ $C G A A A A A G G G G A A G A G G A G A C G G A C G G G G G G G A G A C A G G G G G$ GAAAAAAAGAAGGCCAAGGAAAAAAGAAAGGAAGGGGCAGAA $G C A A A A A A A G G A A G G G G A A C A A A G A G A A A G G G G G G A A G A G A G$

 ACAAAAAGAGGAAGACAGAAAAAGGGGAGGGGGAAGGABAAA G G G G G A A G G G GAACCGGAAAAGGCCCCAACCAAAAGGAAGAA A A A G G A A G G A A G G G G G G G G A A C C G G A A A A A A C C G G A A G G G G C CAAAA A GAAAA $A \operatorname{A} A A A C C G G A A A A G G G G G G A A G G G G G G C X G A A$
 GAAAAAAAAGGGCACGGAGGGAAGGGAGGGAGGGGAAGGGGG A GAAAAAGGGGGGGGAGGGCCAAAACCAGGGAAGGGAGGGGC CAACCGGAAAGGCGGTTAGAAAAGGGGCAGGGGGGAACCCCG
 A A G G A A G A A CAGGCCAAGGAAAAGGCCAAAAAAAAGGGGCCA AAACCGGAAGGAAAAAAAACCAAAGAAAGAAGGGGGAAAAAA A A A G G GAAAGGAAGGCAGAGGGGAACCGGCAGGGGGGCCCCA AAAAAGGAGGGAAAAGGAAGCAAGGAGGGAGAAAAAAA GAGC $G C A A G A A G A G G A A G G A G G A G G G G G G A A A A G A G A G G A A G A A A A$ C GAGGAACAGGAAAGGAGGGAGGCCAAACCAAACCAAGGGGG
 $A C C A A G A A G C C G G C A G A A G A A A A C C A A A A G G A A C C G G G G G G G$ GAAGGAATTGGGGAAAAAACCGGGGGGAACCGGGGGGAAAAA $A C \subset A A A A G G G G A A A A A A G G G G G G A A C C G G A A C C A A A A A A A A G$ G G G A A A A G G A A A A G G A A A A A A A A C CAA G GAACCAAAACCGGC C G G A A C C G G G G A A A GAA A G A A G GAAAA $A$ A G G GAA $\mathcal{A} G G G$
AAAAGGAAAAAAGGAAAAGGAAAACCGGAAGGGGGGAAAAA AAAAAAAGGCCCCAAAACCAAGGGGGGGGAAGGGGTTAAAAA
$A C C G G G G G G A A C C G G G G G G C C G G G G G G G G C C A A A A A A A A C C G$ G A A A A A A A A A A G G A A A A A A A A A A G G A A A A A A C C A A A A G G G G G GAACCGGAAAAGGAAAAAAGGAAAAGGAAAAAAGGAAGAAAA AAAAAAAGGCCGGAAAAGGAAGGGGAAAAGGAAAAGAAAGGG GCCGGGGGGGGCCAAAAGGAAAAGGGGGGGGGGAAAAAAAAA AAAGGAAAAAACCCCAAAAAAGGGGAAAAGGAAAACCCCGGA A A A A A G G A A A A A A A A C CAA $A \operatorname{GAAAGGAATTAAGGAAGGCCGGC}$ CAAGGGGGGAAAAGGAAAACCGGGGAAGGAAAAGGAAAAAAA A G G C C G G A A G G A A A A G G G G G G G G A A A A G G A A G G A A G G A A A A $G$ GAAAAAAAAGGAAGGAAAAAAAACCGGCCAACCAAGGAAGBA A G GCCAAAAGGGGAAGGAAGGGGGGGGCCAAAAGGGGGAAAG GAACCAAGGAAAAAAGGCCGGCCGGAAGGAAAAGGAAGGGGG
 GAAAACCAATTAACCGGTTAAAAGGGGCCGGGGAAGAAAGGG GAAGGCCAAAAGGAAAAGGGGGGAAGCAGCAAGATCCABAAA A G GCCCAAAAACCGGGGGGAAGGGGCCGGGAGGGGCCGAAAA GAGAGGAAGAAAGAAAGAGAGCCGGGAAGAAAGACGAAAAAG G G GACCCAAGGAAAGGGGAAAGCAAAGAATAAGGGAGAAGAA GAAGAAAGAAGGGGGAAGGGGAGGAAAAGGGAAAAAAGGGGA GACGGGGGCAGAAGGAAAAGGAGCAAGAGGGAAGGGAAAGAA GAGAAGGGGGGAGAAGGCCGGGGGAACACAGGAGGAAGAGAC C G G G G A A A G G A G GAGGACCAACCGGGGAAGAGAAAGACAAAG GAAGGCAAGGGCAGGGGCATTAAAAAAAGAACCAAAAGGGGA A GAGGGACCGAAAAAGGCCGGAGGGAAGAAAGAGACAAGGAA CAAACCAGAGAGAAGCAGAAAAAAGAAGAGGGAAGTACBGGA GAA A G G GAAAGAAAAAAGGGGAGAAGGGGAAAAAAAGAGAAG $A C C A G A G A A G A G G G G G A A C G G A A A A A A A A C A G G A C G A G A A A G$ G G G A G GAACGACAAGAGGAGAGAAGCAGAGAGAATGAAAAGB $G C C G A G G A A A G A A A G A A T T G A G G C A G A G G A A A A G G A A A A G G G$ A GAGGGACCAAAAGGAAAGCCCCAAAAGAGGAAAGGGGGGAA A A G G A A A A A A A A A G GCAAGCCAAGAAAAAAGGGAAAA GAAAA G G G G GAAAAAAGGAGAGGGAAAAAAAAAAAACCGGAAGGGGG GAAA $A$ A $A$ A A $G \operatorname{A} A G G A A A G A A G A G G A A A G G G G G G G G A G G G G G G$ G G G A A T T A A A A A A G G C C A A G G G G G A G G A A A A G A G G G G C C G G G A A G G G A A A A G G G G A A A A G G A G G G G A A A G G CAC C C CAA G G C C C C C A G G A A A A A G A A G GCCAAAGCAGGCCGGAAAA G GA GAA G G A

 $A C C A A G G A A A A G G A A G G C C A A A A A A G G G A G G A A A A A A A A G B A$ G GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGAAAGAAC C G G G G G G G A G G A A A G CAA $\operatorname{CAAAAGAAGGGGGGGGGACCAAAAA}$ G G A A G G A A A G G A A G A G G A A C C G G C C A G G G G G G G A C G G A G A C A G G GAA $A$ A $A C G G G G A A A A G G A A G A G G A A A A G G G G A A G A C C G A A$ G G GAAAAAGAACCGGAGGGCCGGGGGGCCAGAACCGAGAAAG A A A GAACCCGGAAGGAAAAACGGCCACCCAAAAGGAAGGGGA
 GAAGGGGGGGGGGGAGACCTTAGGACGCAAAAGGGAGGAAAG GCCAGGGAAGGAACCAAGGGAGGGGGGCCAGAAGGAGGAAAA A G GAGGGAAAAGGGGGGAAAAAGAAAAAACAAGGAAAAGAAA $G G A A A A A G G A G G G A A A A A C G G A G A A A A G A A G A A A A A A G G G G A$ A A A A A G GCCAA $C$ G $\mathcal{A} A G A A G G G G G G A A A A A G A A A A C C G G G A G G G$ G G G GAA A C C C C G GAGAAAGCAAAGGCGGAGAAGAAAGGAAGA G G G A A A G G A A G G A G A C A G GCCACGGACCCGGGGAGGGGGCCA G G G GAGAAGAGACAGCGGAAGACCCAGGAAAAACCGACAAGG A G G A G A A G G G G A A C A G G A G G G A A C C A A CA G G G G A A G G G G A G A G G G A A C C A G G A A A A A A A G G G G A A A A A G GAGGAAAAAAGAAGA G GAGGGGGAACGAGGACAGGGGAAACAAAAGAAAGAGAAA G G $A$ GAGGAAGGGGGAGAGACAAAAAGAAGGAAAAAAGAGGCCGGG A GAA A G GAGGAGGAAGGCAAACAGGCCGGGGGGAAGGGGGAG

G G GAGGAAAGGCCAAAGGGAGGGGAGGAGAAGGAAGGAACAG A G G A A C A A A A G A A A A C CAA $A \operatorname{AGGGAAAAAAGGGGAGGAGGAGC}$ CACAACCAAGGACGGCCAGTTGGGGAGGGGGAAAAGAAAGGA A G G G G G GAAAGGGGGGGGAGAGACAGAGGAAAAGGAGAAGAA A G G G G A A A A G A A GA A G G G G G GACCCCCGGGGGAGGAAAAAA G GAAGGAAAGAGGAAAGAGAGAGGAGAGAAAAGGAACCGGGGA A G G A G G GCCGGGGGGAGGGGAAGAAAGAAGACAGGCAAAGAA C G G G G G G GAAACCAGAAGAGGATAAGGAAGGGAGAGAGAACA G G A A C A GAGGGGGGGAAAACCAAGGAGGGAACCGGAAAA GAA AGGAAGAGGAGAACCAAAAGGCCGAGAAAAACAAAAAGAGGA AAGAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAG $A G A G G A A G G A A G G A G A A A A G G A A G G G G G G A G A G A G A G G A A A A$
 A A A CACCAAAAAAAAAAAAGAGGGAAACAGGAAGGGAA GAGA GAGAAAGAAAAGAAGGGGAACCAAAGAAAAACCGGGAGGGAG GAGACAAAAGGAGCCAAAAAACAGGAAAGAAGAAAAGGACAG A G G A G A GAA A G G GAAAAAGGAAGAAAGAAAAGAAGCCAAGBA G G G A A A A A GAACCAACCGGAAAAGGGGAAAAAACGCAGAGAA A G GAGAAAACAGGAAAAGGGGAAAGTAAAAAGGGGGGCAACA $A G G A A A A G G G G A A G G A A G G G G A A G G G A G G A G C A G G A G G A G A G$ G G GAAAAAAAAGGGGAAAAGGAAAACCAAAAGGGGGGAAGGG G G G G A G G G G G G G G A A A A CAGGAGGGAAAAAAAAA GA G TAACC G G G G G G G G A A G G G G G G G A G A A G A A G G G G G G G G C C G GCC C C A A G GAAGAGGGAGGAAGGAAAAAAGGAAAACCGGACAAGGGAABA GATAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGGGGGAAAAAAAAGGAAACAAGGGGGAAAAGGGACAGC C GATAA $\operatorname{T} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A G G A A A A C G G A G A A G G G A A A A A A C C G G G$ GAACCACAACAAGTTAAACGACCAAGGAGAGAAGGGCAAAAG A A GAACGAAGGCCAAGGGGGGAGAGAGAAGGAAGAGGAAGAG G GAAGCCGGGGGAAGAGAGACGAAAGGCAAGGACCGGAAAAG
 G G G G G G GAAAACCCGCCAAAGGGGGGAGAGAGAAAGAGGAAA GAGAGAAACAAGAGAAGACTTGGCACACCAAGAGGTTAATTA A G G G A G A A A A A A A A A G G G A A GAGGAGAGGAGAAAAAGAAAAA A A A A A A A G G G G A A C C G GCCAAAAAAGGCCCCGGGGGGCAAA G GAAGAAGAGCGAAGGTTGAGGAAAAAAAAGGCCCCCCGACABG GAGAAGAAGAACCCAGAAGGGATACCCCAAAAGCCCAAAABA A G GACAGCCGGGGGAGGGACCGGAAGGAAACGGAAAAAAGAC CA $\operatorname{A}$ TAAAAGAGAAAGAAAAGGGAGAAAAGCAGGGGCABAGAA A A G A A G G A A G G A A G G G G G G A A G G A A A G G G G A G G A A G G A C G G G A A A G G A A A A G G G G G A GAG G A A G G G G T T A G C C G G G G G C G G C A A A ACAAACAAAAAAAAAGGGAAAAGGGGAAGGAAAAAAGBGBAA ATTAAAAAGGGAAGGAAGGCGGGAAGGGAGGGGGGAAGAAGA
 G G G G G A A G G G G A G A A A A A CAACGGGAGAAAAGGAAGAAAGAG
 A G G G G G G A G G G G A G A A $\mathcal{A} G G G G G G G G A A A A A G A G G G G A G A G A G$ A G G G G A A G G G G A A A GAA $A \operatorname{GG} \operatorname{A} A A A G G G G A A A G A C A A G G C C G G G$ G G GAAGGCAGAGGGAAGAACCGAAGGGAAAAAACCGGAAAAA A G G A A T T G GTTAAAAAAGAAGGAAAAGGACGCCGAGGCATTA A A A G G GAA A A A A A G G G G C C G G A G G GAAAA A G A A G G G G G G G G A AAAAACCAAGGGGAAAACCCAGGAGAGAGAACAGAAGGGGGC C G GCCAAAAAAGGACAAAGCACCGGGGAAAAGGAACCAGAAG AAAAAGGGCAAGGAAAAGGGGAGGAAGAGAGAGAAGGGAGAC ACAGGAGGGAAAAAAGGAGGGAACCGGAACAGGAAAAGCGBA A A G A G A C G G G G G G G G G G A A GAGGAAAGGGCCAAAAAA GAAA $A$ AAAGGGGCCAAGGGGAGGGCCACACAAAAGAAAAAGG
G GCAGAGGGGACAAGGGGACAGGAGGAACCAACCCCAAGCA GAAGGAAAAGAAGAAAACCAGGGGGAACCCAGGAGAAAAGAG

GAGAAATGAAAAGAAGGAAGAAGGAAGAGGGAAAAGAACAAA $A G G A A A G G G G G G G A A G G G G G G G G G A G A A A A A G G A G A A A A G G A$ ACAAGGGAACAGGGGGAGAATAGAGACGGGAAAACAACCCCA AAACCCCAAAAAAAACCGAAAGGAAGGGGAAGGCAGAAACAG A G G A A C A A A A G G GA G G G GAGGAGGAGGAACCGGAGATGGGGA A A A G G G G G A G A G G A G G C G A A G G C G G G G A A A A A A G A G G A A A G G A A A G G A A G GCCAAAAAAAGGAGAAGCCAGAAAAGGAAACACA G G G G G A A A A C CA A G G G G G GAAAAAAAAAAAC AA GGGGGGCC G
 AAAAAAAGACCCCGGGGGGGGGGAAGGGAGGAAAAGAGAAAG GAA A G G G A A A A A A A CAAAAAGGGAAGGGGGAGGGGAAGAAAA A A C A G A G G A C C T T G G G A C A C A G G A G G C G A G G A G A A A A G G A A G G G GCGAACCGGAGGAAGTTGAAAAGGGGAGAGCCGGAGAAAA
 GAGGGAACACCAAGGGGAAAAGGGGGGGGGAGAAAGAAAACB A G GACTTCGGGAGAGAAAAGGAGAAAGGGAAGGAAGAAACAA $A G G C C A A A A G A A G A A A A C G A A G G G G G G G A G G G G G A A G G A G A G$ G G A G G A A A A G G G G A A A A A A A A G G A A G G G G C C G G G G A A A GA G G G G G GAAGCCGGGGAAGCGAAAAAGAGAAAAAGGAAGGGAAAA AT TAA A G G G G G C C A A A G G G G G G G A G A A G G A GAGGGAACAAAA A A GAAAAGGAGCCAAGGAAAAGACCAACCGAAAAAAAG GAAT TAACATTGGCCAACCAGAGGGGAGAGGAAAGAAGAAGCACAA
 A G G A A A G C A A G A A A A A A $\operatorname{A} G G G A A G G G G A A A G G G G G G A A G G A A$ A G G G G A A G A C C G G A A G A T T A $\mathcal{A} G G A A A A A G G G G G G G A A G A A G A$ GCAA C G G G G A A G G G GCCAAAAGGGGAAGAAAAAAAAACCCC G G GACAGAGAGGGGGGGGGGGCGGAAGGGGAACCGCCCAAAGA A A G A ACCCACAAGAGAGCCGAAAGAACAAGAGAGAGAAAGGG G G G G G A A G G G G A A G G G G C C A A G G A A A A A A G GAAA $A$ G G G A G A T TGGGAGAAAAGAAGAGAAAAGAAGGGGGAAGAAAATTAAAAG G G G G G A A A A A A A A C C A A A A A A G GAA G GAACCAAAAAAGAAAG G G GAAGGAAAAAAGGGGAAGGAAGGCCAAAAAAAAAAGGGGG G G G G G G GCCAAGGAACCGGAAAAGGAAAACCAAAACCGGGGG G G G A A C C A A A A C C G G G G G G G G G A A G G GAAA A A GC G TAAA A A G A GAGAGGGAAACAAAGAGGGACCAGAGAGTTGGGAAAGAGBA CAAGGAAAAGAAGAAACAAGAAGAGGGAGAAAGGAGGCAGAG A G GAGAGGAAGCCGAGGAAGGGGAAGAAGAAAAAGGAGAAAG AA GAAGGAAAGCAAGGGCAAAAAAATAAAAAAAAGGAGGGGG C G G G G G G A A C C A A A A G A A A GA G GAATTAAAAGGAGAAGAAAA $A A G C C A G G G G A G G G G A G A A G G A G G G G G G G A A G G A A A A A C G G G$ $G C C A A A A G G A A A A A A G G A A G G A A A A A A G G A A G G A A A A A A A A C$ CAA $A \operatorname{GAA} G G C C A A G G A A G G C C A A G G G G A A A A G G A A G G G G G G A$ A G G A A A A A A A A AC GAGGAAAGGGAGGAGGCCCCAAAAGGCCA G TAAAAAGAGGGAGGGGAACCGGAAGGAGCCAGABAAAAGGG GAGAAAGGAAAAACCACGGGGGAGCAAACAACCACAGAACCT A A GA $\operatorname{G} A A \operatorname{A} G A A A A A A A A A A G G G G A A T A A A A G G A G A G G G A A A A G$
 A A A G G G G G GAA $A \operatorname{GA} A A A A G A A C A G A C G A A A A G G G G G G G G G T T A$ AACGGAAAACCAGGAGGGGCCGGGGAAAGCCAAAGGAGAAAA
 A G A A A A GAGCCGGAAGGAAGGGGCCAAAAGGAAGAGGGAAAG G G GAA A GA $A \operatorname{ACCGGAAGGGAGAAGAGGGAAGGAAAAGGGAAAA}$ $A C C A A G G G A A A G G G A G A A G C A A G A A C C G G A A G A G G A A A A A A G$ A G G G GAAGAAAACAAACGGAAGAAGAAAGGGGAAGAAGGGGA A A GA $\operatorname{A} G A C C A A A A G G G A A A A G A C A G G G G G C C A A G G G G G G C C A$ A A G G G A G G A A G G G G G A G A A G G A A GAAGGGAGAAGGAAGAACA
 G G G G G A A G G G G G G G C G G A A A A G G A G G G G G G CA $\mathcal{A} G G G A A B A A A$ $C G G C C G G G A G G A G C C G G T T A A G A A C A A A G G A G G G G A G G A A C A$

G G G G G A G G GAGCCAAAAGAAGAGGGAAAGAAGGAAAAAAAAA
 A G G G G GCAA $A \operatorname{A} G A C A A G G G G G G C C A A G C G A A G A G A G A G G A A G G$ GAGAAGGCCGGAAAGGAGGGGAGAAAGGGCCGAAAGGGGAGG G GGCCGGAAGGAGAAAAAGATAGAGAAACGAAGAGAGAGAAA CCGAGGGCCACAAACAAAAAAGGGGAACAAGAGAGGGGAAAA ATACAAAAAACAAAAAAGGAACAAGCCGGAAAAGGAGAAGAA AAAGAAAGGAAACGGAAAGGAGGGAGAGGAAGACCCCAAGGA G G G G G G G A C A A A GACAA $A$ A A A G GAGAGAAGGAAAACGGCAAA G GCCGGGGGGGGAACACAAAACGGGGAAAGGAAGAAAGGGCGG GAAACAACAGAAGAAAAGGGAAAAAGGAAGGAAAAGGAGCCG GAACCGAAGAGGGAGGGGAGGAAAGGGAGAAACGACCAGAAG GGGAAAAAAAAGGAAACGGTTGAAAGAGGAGGGGAAAGAAAA A G G A A A G G G G G A G GAC CAA A G A A A G GAAAA G GAAAAAA A A G G C A G GACCAAAAAAGGAGAGAGAAAGGAGGAGGAAAAGAGAAAAA A A GACAAGGCCGGGAGAGGAAGGACCCGGAGGGGGGAAAAAG
 $A C A G G G G G C C C A G A G G A A A A A G A C G G G G G A A A G G G G G A A G A A$ A G G G G A A A A A G G G G A A G GAGAAGGGGGAAAAGAGGGCAACAA GAAA A A A G GAGGGAAGGAAAGAAGGAAGGAGAAGGGAACAGA A GAAACAGGAAAAAAGGAAAAAAGAGGGGAGCAGAAAGGCCG GAATTCCGGGGCCAGGGGAAAGGAAGGAAATAGGGGGAGGGG GAAGGGGGGAAAGGGGGGGCCGGAAGAAAGACCGAAAAAGGG A A G G G G G G G G G A A A A A A $\mathcal{A} G G G G G A A A A G G C C G G A G G A G A A A A$ $G G A A A G G A A G A G A C C G G G A A A G A A A A G A G A G A A A A A A A A G A G$ GAGCCGGAGCAAAAAGGAAGGAAAGAGAGAGCCAAGGAGAGA

 A G G G A GAA $A \operatorname{GA} A G C C A A G A G G A A A G A A A G G A G A G A A A A A G G G$ GACCCGAGGCCGGAAAGAGGGGGGGAACCGGCAAAAAGGCCG GAAGGGAGGAGCACCAGAAAAAAAGAAGAAAGGGACAAAGBC $C C C G G C A A C A A A A A A G G A A G G A A G A G A A G G A G G A G A A G G G G A$ A G GAACAAGAAGGCCGGAAAAAGAGGAAGAAAAAAGGGGCCG GACAGGGAGAGGGCCCCAAGGGGAAGGGGGGAAGGCCGAACA GACGGTTGGAAGGAAAAAGGGAAAACAGGAAGGGGCCATA GA GAGAGGGAGGGAAGGAAAAACGGAGCCAAGGGGAATTAAAAG AAGCAAGAAAGAGAAAAAAGAAAAGGAGAAAGAGGAACCCCC CAAGACCGGAAGAGGAAGAGGAAGAAAAAGGAACCGGGAAAA A A G A G G A C A A A GACAGAGAAGGGAACCAAGGCGAGGGGAGAA
 $A C C G A G A A G G G G G G A G G A G A A G A G G A A G A C A A G A A G G A A G A A$ A A A G G GAAAGGAACCAAAAGGAAGGAAGAGAGGAAGAAGACA $A C C A A G G A A A A G G A A G G G G C C G G A A G G G G G G G G C C A G A C A G G$ A A G G A GAGACAGGGGGGAAAAAAGGAAAAGGAAACACGGGGG G G A T T GAGGGGCCAGAGGAAAACAGAAGAAAGGGGGGGGGGA GAGCCAGGGCACAGAAAAAAAGGGGAAGGAAGGGGAAGGGGC C G G A G A G A A G GAGGGGGACGGGAGGACGACAAAAAAAGACAA $A C A C A A A C C G G A G A A G G G A A A G A T A A A G G G G A A G G A A G G G G A$ AACGGGGAAAAAGAACCCAGGAAAAGCGGGAAGGGGAGACCG GAAGGCCCCGGGAAGGGAAAAAAGGAAAAAAAAAAGGGAAAC C G G A A A G A A A A G GA A G G G G G G G A A A G G GAGGAGAAAACAAAA AA $A$ A $\operatorname{Ag} G \operatorname{GA} A A A A A A A G G G A G G A A G G A A A A G G G G A A G G G A A G A$ A G G G A A A A G G G GAA $A \operatorname{GGGGGAGAAGGAGAAGGAAAAAAAAAAG}$ AA $A$ A $G$ GAGAGACCGGGGGAGGAAAAAACCAAAAGGGGGGATG G G GAACCGAAAAACCAGGGCGCAGAAGAAGGAAGGAGAAGGG GAAAAGGAAAAGGAGGGAAAATTGGGAGGGGAAGGAAAAGGA AGACAGGGGAAAAGGAACCACGACAGAGAAGACAACG
C CAA $A \operatorname{GGG} \operatorname{G} A A G A A A C C G G G G G G A G G G A A T A G G A A G G A A A A A$ $G G G A G A A C C G G G A A G A G A G G G G G G A G G A A G G A A A A A A A A A G G$

A G GAAGGGGAAGGAAGATTAAAAAAGGAAAGGAAGGAAAAGA ACCGAAAGGGGAAAATXCCCCGGGGAAGACCAAGGGAAAGGA
 GAGCCAAGGAAGGAAGGGGGGAAGAAGGGAAGGAAAAGGGGA GAGAGAGGACCCCACGGCAGGAAGGGGAAGGAAAGGAAGAAA G G A G A G G G G G G G G G G C C A A GAGGCCAG GAAGGGAGAGA GAAA AAACCAAGGGGAAGGCCAAAAGAGGACGGAAGAGAAGGAAAC C G GAAAAGGAAAAGAAACAGGAGAAGGAAAACCGGAAAAGAC A A A C C A A A A T TA GA GAA G GA A G GAACCAAGGAA G GAA G G G G A AGGAAAAGGAACCAAGGGGCCGGTTGGAAGGGGCCAAAAGGA A GAGGAAAAGGAAGGAAGAAGGGGGGGCCGGGGAAGGGAAAC CAAGGAAGGGGAAAAGAAAAAAAGGAAGAAGAACAGGAAAAA GAAAAGGGGAAAAAACCCCAGAAGGAAAAAAGAAAGGGAAAA A A G A A GAAAGGGGGGAAGGGGAAGGAAGGGAAAGGGAGAAGA GAAAAAAGGAACCGGGAAGAAAAGGGGAGAACAGGAGAAAAG A G G G G A GAGCAGGGGAGTAAACAGGCCGGAACGAGATAGGGA AAA A A G GAGGGGGAAAGAAAGAAGAGAGAAGACAGGGAGGGG G G G G G A G A A G G A A A A G GAAAA $A$ A GAAAGGGAAAAAAA AAAGGG A GAAAAAGAAACCAAAAAAGAAAAAGGGGGGAAAGAAAAGGG G G C G G G G G G G G A A G G G A CACATAAAGGAGAGGGAAAAGAAAA AGGCCAAACAAGAAAGGAAACGACAGGAAAGGGTTAAAAGAA AAAGGGAGAAAAAAACAGAAAAAGGGGAAAGAACAGGAAAAA A A A A A G G A A G G G GA $A \operatorname{GA} A G G G A A A A A G G G G G G A G G A G A A C A A A$ $G C \subset A G G G A A G G G G G G A A G G A C C C A A G G G G A A G G A A A A G A A A A$ A A A C C A A A G G A GAA $A \operatorname{GA} A G G A T A C A G G G A A C C A A T A A G G G G G G$ G G G G G A A A A A A A GA $A$ A $A$ A A $A \operatorname{GAA} A G G G A A A A A A A A G G G G A G G$
 CAAGGGGGGAAAAGAACACAGAGAAGGAAGAGAGGAAAAGGG AAAAGGGCAAGAAGAGGAAGGAACCGGCACCAGGGGGGAAGA $G G A G G G G A A G G A A A G A A A A A G G G G A G G C C G G A A A A G G A G G G G$ GAAGGGGGGAAGGCCAAAGAGCACAAAAAAAGGAAAAAAGGG GAGAAAGCCGGGGAGAGGGAACCCCGAGGGGAAGGGGAACCG G G GCAGAAGGAAAAAGGAAAAAAGGGGAAGGGACCAGGAAGC CAAGACCGCCCAAGGAAAAGGAAGGCAGGAAAAAGGGGAAGA G GGCCAAGAGGCAAGGGAACCCCAGGGAAACGGAGGGAGAAA ACCAAACAGGGAAAAAAAGGGGAAAAAAAAGAAAGATAAGAG G G GAGGAAGACGAAGAGCCGGAGGGCCGGAGGGAAGAAAAAG G G GAAA A GAGAGGGGGGAAGGCCGGACAAGGAAGGAAGAAAG
 $A G G G A A A G A G A G G G G G G A A G G G G G G G G G C A G G A G A G G G G G G A$ G G G G G G C G G A G G G G A A G G G G G G G C C G A A A A G G G G A A A G G A G G GAACCGGAAAAAACCCGGGAAGGAAGGGGGGCCGGCCGAAGA G GAAGAGAAAAGAGGAACCAAGGAGGGGGACAAGGAACAAAC CAAAAGACAACGAAAAGGGGGCCACGGAAGGGGGGCAAAGGG GAAAAGAAGAGGAAGGAAAAGGGGAAAAAGGAA G GAAAGGGGG GACAAGGGGAAAGAGAGAAGGAAAGAGGGGGAGAAAACAAAA $G G A A C A G A A A A A G A G G G C A A G C C G G A G C A A A G A A A G G A A G G G$ A A G GAGAACGGAAGGAGGGACAAAAGGAGGGGGAAGAAAGAA
 GAAGGAACCAGGGGGAAGGAAGGAAAAGGGGAACAAGAGAGA AAAAGCCGGAGAAGGAAGAAAAGGGGGCCAAAAAGGAAAACB G GAGGAAGGACGAGGGAAAGGGGGGAGAAAGGGGGAAGAAGA A G A G G A A C C G A G G G G G G G G G A G A G G G G A C A A G G A A A A G G T T G GGGAACCAAGGAAAAAAAAAAGGAAGGAAGGCCCCGGGGAAG G G G G G G G G G G G A A A A A A G G A A A A G G G GAA $A$ G A A G G T T A A T T G G G G G G G G G A G G A A $\mathcal{A} G G G A G A G G G A A A G G G T A G A A A G A A A A G G$ $A C C G G G G G A C C A G A G G A G G G G A G A G A G A G A A G G A A A A A A A A G$ GAAAAAAGGAAGGGGGAAGAGGGAAAAAAGCGAGGAAAACCC $A C \subset A G G A G G G G A A A A G A A A C C A G A G A A A C G A G G G G A G A A A A A$

GAGACAAACACGAGAGGAGGGCCCCCCGAGGGGCACAAACCA A G G A G G A C C G G G G G G G G G G G G A C C C G G A A C A G A G G A A G G C C C C G G GAAAAGGAACAGAGAAGAGAGGAGGGAAAACCGGGGAAA A G G G GAA $A \operatorname{A} A \mathrm{~A} G A A C G G C C T A G G A C G A A A A G G G A A G G G A A A A$ G G GAA A A G G G GAGAAAAGGAAAAGGGGGAAGGAAAAACAGGG GAAAGGAAAGGAGCCCCAAACAAAAAAGAAGAGGAAAGAAGG G G G G G G G A G A C A A G G A G G G G G G G G A GAGGGAAA A A A A G A A A G AA $A G G A A G G C C A A G G G A A A G G G A A A G G C C A C A A G G C C G A G A A$
 AAAGGGGCCGGCCACCCGAAAAAAAGACCGGGAAACCAAGGC CAAAAAAAATTGGGGGGGGAGGAGGGAAGGAAGGAAACAAAG A G A G A A A A A C C A A G GAGGGGGGGCCAAGAACAAGGAAAAGAA GAGAAGAAGGGATGGGGAGAAGAGAGGAAAAAAAACCGAAAG
 GCCCCCCAGAAGAGAGGGGCCAAGGGGAACCAGAAAAGAAAG
 G G G A G A G G A G A A G A G G G G A A G G G G G G G C C G G A A A G G G A G A G G GCAAGGGAAAGGGGGGAAAGGAAGGCCCCGGAAGGAGAAGAA $G G G A A G G G G A A G G C C G G A A G G A A A A G G A A A C C A G A G A G A G A G$ G A A G G A A G G C C G G G G G A G G C C G A A A G G A A A A T A C C G G C A G A A GCAATAGAAAGCCGGGGTAAAGACCGGGAAGAGGAGAAACAA A A GAAAACCGAGACCAGAGGAAAACGGAAAGAAGGAAGGGGA A A G G G A A A A G G A G A A A A G G G G A G G G G A GAAAA $A$ T T A A G G A G A A G G C G G G A G G A GA G GAAA $A \operatorname{ACA} G G A A A A G G G A A C A A G G A A G G C$ CAAAACCAAGGAAGAAAGGAAGAAAGGTTCCGGCCCCGAGGG G G GCCCCAGAAAGAACCAACCCAGGAAGGGAGGGAGAAAAGA
 A G G A G G A A A C C A A A A G G C G G G G A G G GACCGGGGCCTTGAGAA $A C C G G A A A G G G A A A A G G A A A A C G A A G G A A A A G G C C G G G A A G A$ A GAGAAGGAGGGAGAGGCCGGAGAGGGAGGAGAACACAAGGA ACCGGAAGGAAGGAAGGGGCCAAAACAAAGGGGAAGAAACCG GAAGGGGAAGGACGGAAAAAAGGAGCCAAGAGGCCCAGGGGG GAAAGCAAGGGGGAAAAGGACAGAAAAGGAAGAGAAAGAAAG
 GAAACGAGGGGAGAAGGGAGGAAAAAAAAGGAGGGAAAAGAG GAGAGACCAGACCGGCCAGAAAGAGAAAAAAGGGGGAAAGGA A G GAGACAAGGGGACGACCCCAACCGGCCGGACGAGAAAGGA G GAA A A GCAGGGAAGACGAGAACGGGGAGAGACAAATAGGAC CA $A \operatorname{GGG} G \mathrm{G}$ GACCGGGAAGGGGAGGCAGGCCCCCCAAAGGAACA
 A G G A A A G G GAAAAGGAGAAAACCGAAAGGGAGGGAAAGGGGA GAAGGGGAAGAAAGGGGGGGGAAGGGAAGAGAAGAGAGAAGA GGGCAGCAGGGCCCAACAAAGGGTTAAGGAAAAAAGAAAGGG GAAGGGGGGCCAGACCAGGGGAGGGGGAGAAGAGGAGAAAAA A G GAACCGGAAAAGGAAAAGGAGGGGGAGGAAGAGAAGAAAG G A A A A A A G A A G G A A A A A A A G G A A A A A GAA G GTTCGG GAACAA A G GAGCCAAAAAAACGAAAGGAAGAGAAAGGCCGBAACCGGC CAAAAAAAAGAAGGGGAAAGGAACCAGAACCAGAAGGAAGGT TAGGGAAAAAAGGAACCAGAGGGGGAACCAAGGGAGGGAGGG A G G A G G G A G G GCCTTAATTGAAAAAAGCCGGAAGGAACCGGA $A C C A A G A G G T T C A G A G G A A G G A A A A A A G G A A G A C C A G A G A G G$ A GAGGGGAAGAAAAAGAAAGGAGCAGGAGGAAGGGGAAAAAA A G G G G C C A A A A A G G A A A A G G G G G A A A G T T A G C C G G G A A G A G G AGGGACCACGGCCGGAAGGAAGGAAGAAGGGAGACGGGGGAA A GAAAGGACAAGGCCAAGAAAGGAAGGAACCAGGAAAGAAAA


G G GA $\operatorname{G} G A C G G A A G G G A G G G G G G G G G G A G A G A A A A G G G A A A G$ GAAAACCGGGGGGGGACGGGACAAGGGGGCCGGAAAAAAGGA

A A A A ACAGATTGAAAAAGAAGAGAGAGGAGGCCAAAAAAAGA AA GCCGAAAAAGAGGCCAAATGGAACCAAGGGGAAGGGGGGG GAAAGAAGGAGAAAGACCAGAAAGAAAAGGGGGAGGAAAAAA
 A G GCCCAGGAGAGACGGCAGAACGAGAAGAGGAGGAAAAGAG GAGGGGGACAAAACCGAAAAACCAAAAAAAAACGGGAAAAAA G G GCAA AT T G G G G G GAAAGACGGAAGGGAACAA GGGAAAGGG GCCAACCAAGGAGGAAAAAGGGAGGGACGGGAAAGGACCGBA A A G GAGAGGAACCAACCAGAAAAAAAAGGGGAAAAAAGGGGA AAAGGAAAACCGGAACCAAGGAAGGGGACAAAAGGAAAAAAG GAA A A A A G GAA AAAGGGGAAGAGGGAGGAGAAGAAGAAAAAA
 GAAGGAAAAAGGAGGGAGGGGGGAAAAGGAAA GAAAAGAGAG G G G A A G G A A G G A A G GAGGGGAGGAAGGAGCAAAAGAGGAAGAG A A G G G A A A A GAA A G G G A G G G G G G A A G G C C G G C A G G G G G A A A G G G GAA A G G GAAAAGGTTAAGGCAGGGAAAAAGAGGGAGAGAAA A G G G G A A A A GCA $\operatorname{A} A A \operatorname{A} G \mathrm{GA} A A G A G A A G G A C A G G G G G G G G G C C A$ GAGGGGGAGGGGGAAGGAAAAGGAAGAAAAACCAAAGAAGGG $G G G T T A A G G G A G A G G A A C C G G A A G A A A A A G G G G A A G A A G A G A$ A GAG $A \subset C G G G G G G G G A A G G A A G A A A G A C C G G A G A A C C C A A G A$ CACAGGGGGAGAGAAGGGGGGGGAGAGAGGGGGAGAGAAGAA A G G GACC G GAGGAGGAAGGTAAAGGAAAGGACCGGGGAAAAG A A GA $\operatorname{A} A A \operatorname{A} A \mathrm{~A} G \mathrm{G} A A G A G A A A A G G G A G G G G G A A A A A A A A A A G A G$ A G G G A A A GCGGCCCCGAGGGAAGGGAGAAAAGAAGGGAAAGG GAGGAAGAGGGAGGAAACAGGGGGGCCAGGGAAAAGAAACAA A GAAAGGACACGGAAAGTTAACCAGCAAGAGAGGAAAGGCCA AGGCCAGAAGAAGAGACCAAGGAAGGGAGAAGAGAAAAGAGA GAGGAGGCCAAGAGGAGAGGAGGGGAGGACCAGAGAAAGGAA GAGTAGAAAGGGGGGGGGGGGACAAAAAAAAGGAGCCAAACA TGCGGAACCCCACGGAAAGAAAAAAGGGGAAGAGGGAAACCC C A A G G A A A G A A G G G A G G G G G A A A GACCAAACAA GA GAGATAA GAAAAGGCAGGGGAGGGGAAGAAAAAAAGGAAGCAGGAGGAT TGGAACACAGGGGGAAAAACCCGACAAAAAGACAAGGCCAGG GAACCGGGAGAGAGGAAAAAGGGGAGGAAGGGGAAAAAAGBA A A A A A G G G A ACCCAGCCGGTTAAGGAAAAAAACGGAAAACAA
 GAAAAGGAGCCGGCCGGACAAGGGGAGAAAGGGAAAGATGGA C GAGGAAAGACTTACAGACAAGGAGAGGGGAAGAAGGGGAGG G G GCCGGGGCCAAGGAAAACCAGGGGGGGAAGAGAAGAAGAA GAAA $A \operatorname{GAAAAAAAAAAAAAAGGAGAAGGAAAACCGAAAAAGGC}$ C GAAGAAGACCAAAAGGAGAAAACCACAAGGGGGGAAGGGGA AAGGGCCAGAAGGAGAAGAGGAAAGAGGAAACCAAGAAAGAA AAAAGGGAACAGGAGAACAGGGGGGCCGAAAGGAAAAGGCCC G GCGGAGGGACAGAAGGGACCGACAGGAAAAACCCAAGGGCA A A A A A A A GAGAGGAAAAAAAGGACCGGAGAGAAAAAGAGAAC
 GAAGGGGAAAAAACCAAGGGGTTCCGGCCAAAACCGGGGGAG GAAAAGGAAGAGGGGGGCGAAAAAACATTGGGAGAACAAAGA A A GACAAAAAAGGAAGGAGGGAAGGCCGGGGAAAAGGACGGA A A GCCGGGGCAAGAGAAAAAAGAAAAAAGAAGGAATTGGGGG
 GAAGGAAGGAAAACCGGGGAAAAGGGGGAAGAAGGGAACGGC C A A A A A A G G C C A G G G A A G G A A G G G A G G G G C C A A G G G G C C A A A AAAAAGGGGGGGGGGACAACAGACACCGGGAGGAAAAGGGAA G GAA A A G G GAAAGAGAGGGAAGAAACCAAAGAAGGAAGACCA C GAGAGAGAAAGGGGGAAACCAGAAAAAAGGAAGGAACAACB A GAGAAAGGAAGGGGAAAAAACCAAGGGGAAAAGGCCAAGBG GAGCGCCGGGCGCACAAACAGCCGGCGGGAGAAACACAAGGA $A A C G A G A G G A A C C G G G G A A C A G G G A G G A G G G A G G G A A A A G A G$

A GACCGGGAAAAAAAAAAAAAAAGGGGGGACAGGGACCCCCG A A G A G G A T A G G G G A G G G A A A A G G A A C C G G T T A C G G G G A C G G G G G G G G A A G G G G A A G G A A G G A A A A G GAAAAAAA $A$ A $A A A G G G G G G G$ GAAAAGGGGAAGGGGAAAAAAGGAAAAGGGGAAGGGGGGGGG G G GAAAAAAGGAACCGGGGAAGGGGGGCCAAAACCGAAAAAA A G G G G A A G GAAAAAAGGGGAAAACCCCAAGGAAAAGGAAAAA A G G A A A A A A A A G G A A A A G G A A A A A A C C G G G GCCGGCAAAG G G GAAGGAAAAAAGGAAAAGGGGAAAAGGAAAAGGGGGGAAAAA
 G G G G G G GCCTTGGAAAAAAAAAAAAAAAAAACCGGGGAAAA G GAAAAGGGGAAGGAAAAGGAAAAAAGGCCGGAAAAAAGAAAC C G G G G G G C C A A G G G GAAAAAAACAAAAAGGGGGGGGAAAAAAC CAAGGGGAAAAAAAAGGAAGGAAAAGGAACCGGGGCCAACAG G G GCCAACCGGAAAAGGGGAAAAAACCAAGGGGCCGAAAAAA A G G A A G GAA A G G GAA $A \operatorname{AgAAAAAAGGAAGGGGAAAAGGCCGGA}$ AAAGGAAAAGGCCGGGGAAGGAAAATTGGGGAAGGCCGGGGA A A A G G G GAAAA A $A \operatorname{AGGGGAACCGGGGAAAAGGAAAAAAGAAAA}$ AAACCGGAAGGCCGGAAGGGGAAGGAAAAGGAAAACCAAGEG GAACCGGGGGGAAAAGGGGAAAAAAAAAAAAAAAAAAAAGGA
 $A C C A G A A G G G G G G G G G G G G G G G G A A G A G G G G G G C C G A A G G G C$ CAAAACCAAAAAACCAAGGGGGAGGAAGGAAGGCCCAAAAAA

 GAACCGGAACCGGTTTTGGATACAGAAAGTTCCCAAAGAAAC AAGCCGAAAAGAAAAAGCCAAAAAAGGGGCCAAAAGAAAGGG G G GAAAAAGAAAAGGGGGGAAGGAGAGAACCCGAGAGAAAAA GAAGAAAACCCAAAGGAGGAAGGGGCCAAAAAAAAACGGGGG AAAGGGAAGAGGAGGAAGGAAAAGAAGAGAAGAGAGGAAAGG GAGGAAAAAGGAGAACACCACGGAAGAACGACCACGAAAGGA GAGGGCCAGGGGGAAAGAACCCCGGGGAGCCGGAAGACCGGG AAAAGAAGGAGGGGAGGAAGGAAGGAAGAGGAAGAACGGGGA $G C C A G C C G G C A A C A G A A A A G G C A G G G G G G C C G G A A G G A C A A G$ G G G A A G A A A G G G G G A GACAAAAGAGAAAAAGCAAAAGGAGGG G G G A A T TA $A \operatorname{GGCA} G G A A A A G A A G G G G G C C G C C A A A A A A G G A$ A A A A A A A A A A A G G A CAGAC GGGAGAAAAAGGGGAAAGA GCCG GAAAAAGAAAGAAGAAACCAGTAGGAAAAGGGGGGAAAGAGG G G G G G G G G G G G A A G G G G A A G G G G GA G G A A A A G G A G G G G A G A $G$

 GAAAAGACCCCGGACGGAGAAGAAAGGGGAGGACCAGGAAAA
 G G GCCCCGGGGAAAACCGGCCAAAAGGCCGGAAGGAAGGGGG GAAAAGGAAAAGGGGGGGGAAACGGGGAAGAAGAGAGAAGGG $G G G A G A A A A G A G G G A G A G A G A G A G A G G G G G G A A A A A A G A A G G$ GAGAGCCAAAAGGGGAAGAAACAAGGGGACCAGGAAGCAAAA GAGAAGAAAAAACGGAAGGAGGGAGACGAAACCGBAAAAAAG
 C T TA T GAAAGGAAGAGGAAGGGGAAAGGGAGAGGGGACAAAG G G GAA A GACCCGACCGACGCCAGAGAGCCGGAAGGGGACA G G $A \subset A G A G A G A A A G G A G A A A C A G G A A G A G G G A G A A G G A A G A A A G$ GAAGAACAGGACCAGGAGGGAAACACAAGGGAACA GGGGGGG A G G G GCCAACAAAAAAAAAGGAAGGAAGGAAAGGGACGGGGG A GAGGGGGAGAAAGGAAGGAAGGAAGGCCGGGGAAGGCAAAG G G G G A C C A A G G A G G GCCGGGAAC GAAAAAAGGAA G G GA G G G G G A A A G A A A A A A A G G A G A A G G G G A G G G G G G A A G G G A GAA A A A A C A A G G A A A A A C A A G G GAA AGAAGAAGAACCACACAAGG
GGCCGGAGCCCCAGAAAAAAAAAAGGCAGGAGAAGGAAAAC GAAAGAAAGAAAAGGAGAGAAGAGGGACAAAAAAGAGCAAGA

A G G A A G GCCAGAGAGGGAGGGCGAAAACCAAAAGGAAGAAAA A G G A A A A C C G G A GAA $\operatorname{A}$ G GCCAACAAAGGAAACGGAAAAAGGCA T G G GA $A$ A A A A $G A G G G G G G C C A A G A A G A G A A G G G G A A A A G G C C C$ C G G A A G G G G G GCCA A G G G G G G G G G G C C A A G G C C A A C C G G G G G GAATTAAAAAAGGGGGGCCAAGGAAGGGAGAGGGGGGGAAGA GAGAGGAGACAGGAACCACCCAGGAAGACGGGAAAAGGGGGG GAAAAAAGGGGAGAAGGGGAACCAAAAGAGACAAGGGAAAAA GACGAAACAATAGACAGAAAGAAGGAAAAAAGGCGGGGACCA
 A GAGAGGAGGGGAGGCCCAAGGAAAGAGAAGGGGGAACAAGG GGGAAACCCAACCAAAAAAGAGGCCAAGGGGAGCCAGAAAAA G G G A A A A G GAAACAGGGAGAAAAGGGGAAGGGGAACCABAAA A G G A A A A A A T T A A A GAGGGAAGGAAGGGAAGGGAGGGCAAA G GAAAAGGGGGGGAGGAAGCCCAAAACAAAAGGGAACCAAGAG GAACCGAGGAAAGGAGGAAGGGGGGAAAAAAGAAAGAAAAGG G GAA $A \operatorname{GA} \operatorname{A} A \mathrm{~A} A A A A G G G G G C C A A A G G G A G C A A A G G G A G G G G G$ GAAA $A$ A $A$ A $\operatorname{A} G \mathrm{G} A A A A A A G G A G G A G A G G G G G A G G G A G A A G C C C$ CAA $A$ A A A A A A G A A G GAC CAAGCCAGGGAAAAGGGAGGGGGGC CGGCACCCCAAAAAGAGGGAAAAGGGGAAAGAAGGAAGAAAG G G G G G A A G G G G G GA $\operatorname{A} G A A G A C C C G G G G G G G G G G G A A G A G A A$ C TA $A$ A $\operatorname{A} A A A A G C A G G A A G A G G G G A A A A G G A G A G G G B A A A C A G$
 G G GCCAAGGGGAACACAGAAGAAGAAGAAGGGGAGAAAGACA AAGCCGGAAAAAAAAAGAAAAGGAAAGGAGAACACBAAGGAA

 G G G G GAACCGGCCGGGGGGAAAAGGAAAAGGGGCCGGCACAA A G GAACCGGAAGGGGAAAAAAGGGGCCCCGAAAGGGGAAAAC CAACCGGCCAGAGGGGGGAAAGGCCAAGGAAGGACGACAGAC C C C G G G G C C G A G GAGGGGGGGCCAGAGAGGGGAAGGAAAAAA
 AAAGGAAAACAAGAGCCGGGGCCGGGGAGAAAGAAAGCCCAA G G G GAA A ACGGGAAGAAGGGGAAGACACAAGCAGAGGAAGAA GACGGACGGGGAAGGAGGGAGAGAGGAGGGAAAGGGAACCCC C G G G G A A G A G G G GCCAAAGAACCGCGAAGAAGGAAAAGGGGC $A C C A G A A G G A G G G G A G G G G G G A A G G G G A A A A G G A A G G G G G G G$ GCCGGGGAAAAGGGGGGCCGGGGAAGGGGCCAAGGGGAAGAA A GAGAAAGGAAGGGGAAAAGGAAGGGGGGGGGGAAGAAAAAA A A A A A G GCCCCCCGGGGAAGAGGGGGAAGAGAAGGGGGAAGG GAAACGAAAAAAAGGAAAGGGCAGGAAAGGGAGAGAAA GAAA G G G GAAGCCAAGAAAAATAGGGGAAAAAAGGGGGGGAAAAAAG G G G G A G A A G A A G G G A A $\mathcal{A} A A G G G G G G A G A A G G G G G G A A A A G A C$ CAA $A \operatorname{GAA} A A G A A G G G G G A G A G G C A G A G A G G G G G G G G G G G G G A$ A GAGGAGAAGGCAGGAGGAAAGGGGGGAAAAGGGGAAAAAGA A GAGGAAAGAACCAGAGGAGGGAGGGGAAGGGAAAAAGGGGC C C C G G A A G G A G A G A C G G C C A G A A A G A A A A T T G G A A G G G G G G A
 A GAAAGGCCAAAGAGACGGAAAAGGGGCAAAAAGGGGCAAAG A G G G G G G A C G A G GCGGGGGGGGAGACCAGGGAAGGAAAAGAA A A A G GAGGAGAACAACAGGGGCCGGGGGATTGAAAACAAGGG A GAGGACAGCCGAGGAACAACGGGGAGAAGGAAAAGGAGAAG GACAAGGCCAAGGGGAAAAGGGGCAGGGGAAAAGAAGGAACC C GAACCAAGCAGGGGGAAAAGAGGGCCACCCGAAGGAGAAAG G G G G G G GAA $A \operatorname{GAA} A A G G G G G G C C A A G G A A A G A C A G G A C C A G A$ G G G G A G G A G G GAGGGCCAGAAAAAACCAAGGCCAGAGGGCCG G G G A A A A $\mathcal{A} G A G G G G G G G G G A A G G G G G G G G C C G G G G G G C A A A G$ G GCAAAAAAGGAAGGAACCCCGGGGAAAACCAACCBAAAGGG
 A G GAAGGAAAAGGAAGGAAGGCCAAGGAACCAAAGGGAGCAG

G G G GAAAAGAAAAGAAAAAACAGACAGAAAAAAAAGAAGGGG GAAGGGATAAAAAAAGGGGAAGGAGGAAAGGAAAGGAACAAA
 ACAAAGAGAGAAAAGGAGGAACAAGAAAGAGGAGAAGAAAGG GAAAGACGGGGAGAAGAGAAAGAGGGGAAAAAGAAAAGGGGG A G G A G G A A A A A A A G G G G A G A A A A A A A A A A A A G G A GAAAA A G G G G A G G A G A A A G A G G G A G G G G GCCCCCC GAAGGAAGGGAAAC G AAGGGGGGAGAAAAGAAGGAAAAAGGAAAAAAAGAAAAAGAA A A A G G A A G GAA $A \operatorname{G} C A G A G G A G A A A C A A G A C A A A G A A A G G G G A$ CAAAAGAAAGGGACAAAGGGGGGAAAAGGAAAAGAGGAGGGA A G G A A A A C A G G A G G GAGAAGAAAGGGGGGGGAAAAAACAAAA
 G G G A A A G G G CAGGGGAAGAGGAAAAGACCAAAAAAGAAGA GA GAGGGCAAGGAGAAGAGAAAAAGAAGGAGGGAGAGACAAGAA A A GAGGAGGACGGAGGAAAGGGAGAGAAGAAGGACGAGACAG GAGGAGGAAAGAGCCAGGAGGGGAAAAGAAAAGAGGGAACAG
 AAC GAAGAGCAGACACCAGGGACAGGAAAAAAGCCGGAAGAA $G C A G G A G A A A A A G G G G G G G G G A A C C G G G G G G A A C C C C C G G G A$ GAAACGGAGAAAAAAAAAAGGACGAGACAGGAAGGGGGAAAA G GAAGAGAAAGAGGGAAAGAGAGGGAAAGCCCAGGGAGAAAC CAAGGAAGGAAAGAGGAAGCCCAGAAGGGAAAAAAAACAAAA A A A A A A A $\mathcal{A} G G G T T G G G G A A G G A A A A A A G G G G A A A A C C G G C C C$ CAACCGGGGGGAAAAAAGGAAGGGGCCGGGGCCGGGACAABA GAGAGGAAGGGAGAAAGGGGGAAACGGAGGGAAGAAGGAAAA
 AAGGAGGCCAGAAAAGGCCGGAGAAAGGGGAAAAAAAGAAAG GAAAAAAAAAAGGAAGGAAGGAAAAGGGGGGGGAAGGGGGGG GAAAAAAAAGGAAAACCAAGGGGGGAAAGAACCAAACBAGGG GAAAAGGCCGGGGCCGGGGAAAAGGAAAAGGGGAAGGCAGAG GAAACGGGGAGAGACAGAAAAAAAAAAAACCGGAACAACGBA AACCAAGGGAGGGGAAGATGGGGAGGGAGGGAAGGAAAAGGG
 G G G A A A A G G G G A G G A G G A A GAA A A GAAA A A A G G GAAAAA A G A G GACCACACGGAAAAAGGGAAAGGGCCAAAAGGGGGAGAGAA
 CAAAAAGACGAAGAAGAGGGAGAAAGGAACCGAGGAAAAGGC A A A A G GAAAAAAAGGAAAACAAAGCACACCCAAACAAAAAAA GAGGAAAGGAAGGGGGAAGAACCGGAAAAGGTAACAGBAGGC
 A G G G GACCCGGGGGAGGAAAAGACAGGCCAAAGGGAAGAAGG
 GAAGGAAAGAAGGGGAAAAGAAGAGAGAAGGAAGGAAAACAA A A A A A A ACCGGGGAGAGGGAGAAAAACAAAAAGAAAGAGGAA A A A G G A A G G G G G G A A A A $\mathcal{A} G A A G G A A A A A A G G G G C C A A G G G G G$ GAAAAGGGGGGCCGGGAAAAAGAGGGAAGGGGGAAGGAAAAA G G GCCGGGGAAAAAAAAGGGGAAAAAAAAACAGGGGGGAAGAG G GAAAGGAAGGGGGGAAGGAGGAAAGGGGAGGGGGACAGAAG G G GAA A G G GAA $A \operatorname{AGC} C A G G G G A A G A G A G G G A C C C A A G A A A G A A$
 G G G G G GACCACAGAGAGAGAAAAGGAAAGGGGGGAGGGAGAG GACGGAAGGAGAGGAAAGGAGCCAAAAAGCCACAAACAACAA A A G G A A G G A A A G G A A A A A G G G G G A A GAAA GAA A A A A A G G G A A AAAAACCAGCCGAGACAAAAAAAAGACAGGAGAAGAGATAGA
 G G G A A A G A A A G G G CAAAGGGGGAACAAAATTAAGGGAAACAA A G G A G C C A A G G A A A G G G G G A C G G A G A A G G G G A A G G A A
CAAAAAGGAAAGCCCAAGGACCGAGGGGAGGAAAGGGGAAG GAACCAGCCCAACGGAGACACACGGGAAGAAGGGGAACAAAA

G GA A A G GA G G GAAAAAGGGCCGGTTAAGGGAAGAGAGGGCCG
 A A GAGGGGGATAGAGAAAAAGAGGAGGAGGGGGAAAAAAAAA GAGAGCCGGGGAAAAGAAGATGGGGGGCCAGCCAGCAAGGGG GAAAACCAAAAAACAAAAAGGGGAGGAAGAGGGAAGAAGAAA
 A A G G A GAGAAGGGAGAGGAAGGGAGACGGAGAAAAAAGAA GA A GAGAGACCAAGAAAGGAGAAAAGGAAGAGAAACCAAGAGAA
 G GAGAATGAAGAAGAGATTAGGGAGGGGGAGGAAAGAAGGAG GTTCCGGAAGAGGGGACAGAACCGGAAAAAAGAGGGGAACCG GAAGGGAGGAAGGAAGGAAAAGGACGGAAGGAAGAGAAGACA GAAGGAAGGAAAAAAAAAGGAGGAAGGGGAAAAAAAAAGATC GAAAAACGAAGAGAGGGCCAGAAGAGAAAGAATAGAAAGAGG
 $A C C G G A G A G A A C C G G G G G G A G G G G G G G A A A A A A G G G G G A C A A$ T G G G A A C A A GA A CAAAAAAGGAAAAGGGGCAACGBAGAAGAG $A C C G A A A G G G G G G A A G G C C A G C A A G G G A A C G G G C C A A G G C C G$ $G C C C C A G A G A G G A A G G G A A G A C C G A A G G A A G G G G G A A G A A C A$ G GAGGAAAAGGAGCAAAACAAGGAACCAAAAAAGAAGACAAA GAACGAGAAAGGAACAACCAAAGTAAAAACCCCAAAGGACAA CAGGGGGGGAGGGCCGGCCAAAAGAAAGGAAGGCCAAAAAAG GAAGGGGGGGGGGCCAACCAAGGAAAAAGAGAAAAAAAACAC A A G A A A A A A A GCCACAGGGCCAAGAAGGAGGGGGGCACACAA CA $A \subset A G G A G A G A G G G A A A G A A A A C C A G G G G G G G G G G A A A G G A$ A G G GACAAAAAGGAGAGAAGGGAACAAGGGAGAAAAAAAGGT AAAAGAACCGGAAGGAAAGGACGCAAAAAAAAAGAAAAAAAA A GAGAGAAATTAAAGGAGAGAAAGGAGGAAGAGGAAATXGGG GAAAAAGGGAAAAAGGGGAAACAAACCGGCCGAAACCGAAGG GAAGAAGGGAATTGAGGAAAAAAGGGGACCAAAGGGGGACAC C G G A A G G G G G G A C G A A A C A G G A G A A A A A G GACA $A$ G A A G G G G A AGGGGAACCAAGGAAACAAGACCACAAGGAAAAAGGGGGCAG GAGGGGAGGAAAAAAAAGGAACCAAAAAACCGAAGAGAGGAA $A C \subset G G G G G G C A G G G G A A A A A G A A G A A G G G G G A C A A C C A A A G G$ G G G G G A G C C G G G G G G G G C C G G G G A A G A G A A G G A G A A A A A A C G G G A T T C C G GAA $A \operatorname{GGG} \operatorname{G} A A A A G G G G A C G G G G G A G A A G A A C A A G G$ A G GAGAAAAGGGGGGGGAAGAGAGAGAGGACCCAAAGGAAAA A G G G G G G TACCAAGAAATTGGAAAAAAACAGACAAAAA GAAA A A A A A A A A A G G A A A G G ACACCAAAGGGGGGGAGAGAAAAGAA
 A GAAAAAACGGAAGGGGGGCCAGGGGAGGAGGAGGAGAGGGG A A A A A G G G G C C G G G G A G G A G G G G G A GAC CAAAGGGAAAAAAA A G GAAGGGGGGGGAAAAGAGGGAGGAAGGCCACGAGAAAGBA A G GAAACGGAAACAGAAGAGGGGGAAAAAACAACCGACACAG A A GAA A A G GAA A GAGAACCGGAAGACAGGAAAAAAAAGAAAG A A A G A A C A G G G A A A GAA $A \operatorname{AGGGGCAGAAAAGGCAAAGAGACAG}$ G G G GAGAGGCCAAAAGGAAAGAAACGGACGGAAAAGAAAAGA A A A G G GAGGGAAAAGACGGGGGGCCAAGGAAGGCCAAGGGGC C G GAGAGAGGGAAAAGAGAAAGGGGCCAAGGGGGGCCAGGGA ACAGGAAGGGGGAGACCAAGGAAGGAACCAAAAAAAAAAAGG $G C C G G G A A G C A G G A G C C A A G C G G G G A G G A A A A A A G A G A G A G A$ G G GAA A GAAAAAGGGAGGGAACCGGGACAGGAACCAAAAAAA A A A A GCCA GATAAAAAGAAGAACACAACCGGAAGGAACCGGA GCGAGAAGAAGGGACGGAGGAGGAGGGAAAGGGCCGGGAAGA GAGAACAGGAGGACGGAGGACAGAAGGAAAAGGGGAAAACAA
 GAAGGGGAAAAGGGGAAAAAAGGGGAAAAGGAAGGGAAAAAG
 $C G A G A G A G A A A G A A G C C G G G G A C G G A A G A G G A G A C G A A G A A A$

CAGGGAGCCGGGAAGGGGGGGAAACCCGGAGAGAAGAAAAGA A G G A A G GAA A GCCGAAAAAAAGAAAGGGGGGAGCAAACAGAC C GAAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A}$ TAGAAGGAAGAAGACAAGAGGGGACCAAGGA GAAGGAAAAGAAACACAGGAGAGACCCCCGGAAAAGAAAGGA GAACAAGAGGGAGAAGGGGAAAGAAGAGAAAAAAAAAGAAAG G G G GAAAAACCAAGCAGAAAAGACCAGGAAAGAABAAAGCCG A A A A G G A G A G A A G G A G G G G G G G G A GCCA G A A G GA G A GAC GAA C G G G GCCAAGGGGGGAGGGGGAGGGAAACCCCACAGAGCCCG G G G G G A A G G A A A A A A A G G A C G A A GAGGGGAAC C GAA G G G G G A A G GAAGGCCAACCCCGGGGGGGGAGGGGAAGGGAGGGGAAGC CAGAGAAGGAACCAAGGGAGAAACAAAGAGAGAAAAGAAGAG A GAGAGAAAAACCGGCCCAGGGGAAGGGGGGAAAAGGCAAAC C G GAAAAGAGAAACAAAAACAGAAAGAAGAAACAAGGAAAAC GAAGGAAAGAGACGGAAGGGGGGGGAAGGGGGGGGAAGAAAA AAACCCCGGCCAGGAGGCAGAAGCCGGATAAAAAAGAAAAAA A G G G GAGCCAAGGGGCAGGGGAAGGGAAGGGGGGGAAAAAGC C G GAAACAGCCAAGGCCGAGGAAAGGAAAAGAACCGGGAGAG G G G G G G G C A G GAACCCCGGGGCCAAGGGGGGGGCCGGAAAGA A G G G A A A A GCCAG GAGGCCGGAGGGGGAAACGGGGAAAAGAG A A A A A GAGGAA A G CAACAGGGAGGGCCCCGGGAGAAAGGGAA A G G G GAGGAAGGGAAAGGGAAAAAAAAAGGGAAAGACCACAA A G GAA A GCCAACCAGCACGAAAGGAAGAGAGAAAGGGGGGGG GAAAAAAAAGGGGGGAACCGAAAAGAGGGAACCGATTAAAAC C C C G G G G G G G A A G C C G G A A A G G A A A G G G A C C G G G G A G C C G G G GCAGACAAAACCAGAAAAAAGGGCCAGAAGGCCCCCACCGGA A A A A A G GAACCAAGAGGGGAAAAAAAGAAGGAACCAGGAAAG GAAGAAAGAGGGGAAAAAAAACCCCAAGAAAAGACAGAAGAA CAAAATTGAAACCGGAGGAAAAAGAGGAAGGCCAGAGAATAA
 GAAAGGGGGAAGAGGCCGGAGAACCAAGAGGCAGAAAAGAAA $A T T G G A A A A G A A G G G G G A G A A G G A G A G A A A A G A A A G A A A G G G$ GAGCCGGGGAAGGAAGGAAAAAGAAAAGGGGGACCAAAGGGG G G G G GCCAGAAAAGACCGGAAGGGGGAGGGGTTGGAAAGGAA A A A A A G G A A A A A A G G G G A GCCAAGGGGGGCCACAAAGAAAAG A A A A A TA G CAA A A A A A A A A GGGGGGAAGGCCAAAGGGAACAG GGAACACCCAGAAGAGACCAAAAGGAAAGGAAGAGAGAAAAA G G GAAGGACCACCAGAAGGGAAAGAAAGGAAAAAAGACCGGA $C G G G A G G G A A A G G A G C C G G G A A A A A C A G G A A A A G G A A G A G G C$ C G A A A A G A A A G G G G GAGAGGAGAGAAGGAAGAACCGGAAA GA A AC G A A GAGTACAGGGGGGACGGAAGAGGCCGGACAGAGGGG
 GAAA $A$ A A A G G GAGGAAGGAAAGAGAGAAAAAAAGAAAAAGCCG AAAGAAGGGGGGGGGAAAGGGGGCCAACAAACGGGGGACAGA A G G G GCAGGAAAAGGCCGGAAGGAAAGAAAAGAGBAACACAG A A GCCAGGAGGCCAGGGGGAAAAGAGGAAAAAAGGGGGGGGA A A A A A C A G A A G A A C A G GCCAA G G G GAAAA A A G G G G A A G G G G A A A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G A G G G G A A A G G G G A A A A A A A$ AAAGAGAGGGGAAAAGGAAGGAAAAAAGGGGAGGGGAAACCC CAAAAAAGAAAACAAGGCCAAGGAAGGAAAAAAAAAAGGTTG GAAGGAAGGAAAAGGAAGGAAGGGGAAGGAAAAGGGGGAAAG GAAAAAACCAAGGGGGGGGAAAACCAAAAGGAAAAAAGGGGA A G G G G G GAAGGAGCCAGAAGAGACCCCGAAAGACCAGCCGBAA A A G G A G GAAAAGGAACAAAGGGGGGGGACAAGGAAGAAAGGA G G G G G A A G A C C G A G G C C G G G G G G A A G G A A A C G G G G G A G G A G G GCCGGGGGGGGGGACGGGGGGGGAAAAAAAAAGAGAGAACAA $A G G G G A A T T G G G A G A G G A A G G A G C C A A A A A A A A A A G G G G A G G$ $G G A A A G A G G G G A G A G G G A A G A C A A G G A G A C A A G G G A C$
GGCCAAAGGGAAAGCCAAGAAAGGAAGGGAAAACACGACCG G G G G A A CAA $A \operatorname{GGGAAAAAACCAGAGAGAAAAAAGAGAGGGGC}$

A A A G GAGGAAAACAGAGGACCAAAGAACCGGAAAAAACAGAA GACGGAGAAGGCCAAGCAAGGGAGGGAAAAAAAAAGAAAAAG AAGAAGAGAAAAAAGAGGAAGAAAAGGGGCCCAGGGAAAGGG G G G G GAACAGGGACCAGGGAAGGCCAGAACCAAGGAGAAGAA A G G G GAAAGAAGGGAGGGAAAAGGGAAAAGAACGGAAAAAAA G G GAGACAAAAGAGGGAAAGAGGAAAAGAAGGGAGGACBAAA A A A G G A A G A A GAA $A \operatorname{GGGGGAGAGGGAAAAAAAAGAAGGGGCCA}$ A G G G G G G G G G GAA $\operatorname{G} G \mathrm{G} G A A A G G A A A A A A A A A A A A C C A A A A G G A$
 GAAAAAAGGGGGGGGGGAAGAAGGAGAGACACCGAGAACAGA C CAAAAAAAGGGGAAGGGGCCAAGGAAGGGGGGGGAAAAGAA A G G A A G G A A A A G G G GCCCCAAGGAAAAAAGGAAGGGGGGCAA A $G G G G A A A A A G G G G G A A C C G G G G G G G G G G A A G G C C G G A A A A A$
 AAAGGAACCAAAAAAGGGGGGGGAAAAGGGGAAAAGGGGAAA AAAGGAAGGGGGGAAAAAAGGAAGGAAAACAAACCGGGGGGG GAAAAGGGGAAGGAAGGGGAAAAAAGGGGAAAACAAAGGGGA
 $G G G A A A A G G C C A A A A G G G G A A C C G G G G G G G G G G G G A A A A A A C$ C A A A A A A $\mathcal{A} G G G A A A A A A A G G G G C C G G G G G G C C G G G G G G G A A A A$ A G G G G G GAAGGGGGGAAAAGGGGAAAAGGGGGGAAAAAGAGG A A GAAA A A G G G G G G GAAAACCCCGGGGGGGGAAACGAACAGG G G G GACCCCAAAAAAGGGAAAGGCCGAAAAGGGAAAAGGGGA GCCGAGGAGAGAACCGGCAGAACGAGGACAAAAAAAGGGTTG G G G GAGGCCGGAGCCACGGAAAAGGACAAAAGAGACCAGGGG G G GCCAAGAAGGAAGGAGGAAGAGAAAACGAGAAAAGGAGGG GAAGAAGACGAAAGGGAGGGGGGAGAAACGGAAACAAGGGGG GA $A \operatorname{GAA} A C C A A G G A A G G G G A A G G G G G G C X A A G G G G G G A G G A A$ G G G GACCCCAGGGAACCGGGGGGGGAAGAACGAACAGAAAAA A G A A A CACCGGACACGGGGAAGGGGGGCCGGCCAAAAGGGGC C G A A C A A G A A G A A A A C C G G G GCCAAGGAACCGGAAAAACAAA AACAAAGGAAAGGGGAAGGGGCAGGAAAGGAAAAGGAAAGGG GAGGAGGAGGAGGAGGAATGGGGGGAAGAAAGGGAGGCAAAG G G G G G A A A A G G A C A A G GCC GAGGAACCAACCAGGGAGGAAAG $A C A A A G G G A A A A G A G A G G G A A G A G G G G A A G G A A A A G A A G C A A$ G G A A A G A A A A GCCAAA GAAAGGGTTAAACAGAACCAAGGGGA GAAAAGGAAGGGGGGGAAGAGGAGGGAAAGGGAGAGAAGAAG AA $A$ A G G G G GAA $A G C A C C A A A A A G G C C A A G A G A C A G C C A A A G C$ CAAGGCCGGCCAAAACCGGGGCCCAGGAGAAGGAGAAGGGGG GCCATGGAAGGAAAACAAAAAAGGGACCAGGCAGGCCAAAAG GAACCGGGGAAAAAAGAGGAAAAGAAAAGGAAGGGAGCAGGA GAAAAGGGGAAGAAGACGGAGGACCGAGGGAGGGAAAAAAAA AAGGAACGCGCAGAAACCCGGAGGGAAGGGGAAGGGAAAAAG ACCAGAGGGAAAAGGACAGAACCGGAAGGAAGGCCAGAAGAA
 G G G G A G G G G A A G A A A G G A G G A G G G G A A G G G G G G G G A C A A G G A CAAGGAAGGGGAACCGGAAAAGAAGAGGAAGGAAACCGACAG G G G G G A A G G G G A A G GCCAGAAAGGGGGGAAGAAAAAAAAGAG GAGAGGAAGAGAACCAAAAGGAAGGGAAAGGGGGGGGGGGGG
 $A A G G A G G G G A G G G G C A A G A G A G G G A A G A A A A C A A A G A G G G G G$ G G G A A A A A A G G A A A A G G G G G G A GCC CAA G GAA A GAAC C G GA G A ACCAA $C$ G $\mathcal{C} G A C A G A G A G G G G G G A A G G G G G G A G G G G G A A A A A A A$ A A G G G GAGGCCGGGAAAGAGGGAAAAGAAGGGGGGGAACAAA AA $A$ A $\operatorname{GAAAAAAAGAGGAAAGGGGAAAACAAAAGGGGAAGAAAA}$ A G G G G G G G GAACCCCGGCCGGCAGGAAGAAGCCGGCCGGGAA GAGGGGGCCAGAGGGGGGGAAGGAAGGAGGGGGAAGAAAAAA A A A G G G G G G G G G G G G A A A GAGAGGGAGGAGGGAAGA AAAAAA GGGAACAAAAAAAGGGAAGGGAAGGAAAGAGCCAAAGGGAGG

G G G GAGGCCAGGGCAAAGGGAGGACGGAAGGAAGGAAAGAGA G GACAGAAAAGAGAGGGGGGGAAAATACCCCGGAAAAGAGGA GAGGAAGGGGGGGAAGACCCCACAAAAAAGAAAGGACAACCG A A A A A G GAA A GAGGGCCGGGGAGACGGGGGGGGGGAAAAGGG GAAAGACGCAAGATTAGAAAGCACAAAAAAGAGGAGAGAGAA A GAA $A \operatorname{G} G A G C A A G G G A C G C G G A A C C G G A A A A C A G G T A G G A A G$ GAAGAAGAGACAGAAGGCCGGACGGCAAAAAGAAAAAAAGBA C GAA A A GAAGGCCGGAAGAGGCCAAGAAGGAAAAGAAGGGGA A G A A A $\mathcal{A} G C C G G A A G G G G G G G G G G G G G A G G G C A A G G A G C C G G G$ G G GAGAGAGAGAAAGACAGGAAGAGACGGAGGGGGCCCCCCC C GAGGCCACCCAAAAGACCCCCAAAGAAAAGAGAGAAAGGGG GCCGAACGGACGAAAGGAAGGCCGGGAGGGAGGGCAGGAGGA ATAGGGAGGGAAAGGCCAAAAGAGACAGAGGAAGGAAAAAAG GAAGAGACCACGGAACCAGGGAAAAAAGGGGGGGGAGGAAAA A A G G G G G G GAAAAAAGAGAGGACGAGGGGGGAAGAAAAAGAA A A G G GA A G GCCAAGGGGGGAGGAAGGGAGGAACGAAACCGGT TCCA $C$ A $A$ T A $G A G G A A A A G G G G G G G G G G A A A A T A G A C A G G A G G$ G G G G A T TACAGAAGGAAGAGAACCCAAAGGGGGGGAGAACAC C G G GAAAACGACCAAGGAGAAGGGGTTCCGGGGAAGAAAGAG GAAAAAAACGGGGGGACGGAGAAAACCGGAGGGAGGGGGGGA AGGCCGGACAGGAAGGGCCAAGGAAGGCCAAGGAACAGGAAG G G GAA ACGGCAAGGGAAGGCCCCAAAGGAAAAAGGGGGAGAG GAAGGAGAGAGAGGAGGAAAAGGGGAGAAAAACAAGAAGGGG $A G G G G G G G A G G A G A G A T A G A C A G G G G G A A G A A A G G A G A G A C C$ $A G G A A G G A A G A G A A G G G A A A A G G A A G G G G G G G G G G G A A G G G A$
 A G GAAAAAAAAGGAACCAAAAGGGGAAGGGGAAAACCGGGGA CAGAGGGTTCAAAAAGGAGACGACCAAGGCACAAAGGACAAA ATTGAAGGGAATTAACCGGCCAAAAAGGGAGGGAGAGGAGAA AAAGGAGGGAGCAAAAAAAAAGGAAAACAAGAAGGGAABAAA A G G C C G G G G C C G G G G A A A A G G G G A A C C G G A A G G G G A A A G A A C $C G G A A A A A G G A G A A G G G G G A A G G C C G G G G G G A G A G G A G G A A A$ A A A A A G GAGAGACAGGAGGGGCCGGAAACGGGGAAGAAGGGA G GAAAGGGGAAGGAAAAAAAGGGGAGGAGAAGGAACCAGGGA GAAGAAGAAAAAAGAGAAGGGAAGGCCGGAAGGAAGGGGGGA A G G A A G G G GA $A \operatorname{GA} A C A A A G A G G A G G G A G A G A A G G C C G G A A A A G$ G GAGGACCACACCGGGGGGAGGGGGCCAAGACAAGGGAGGGG GAGAAAAGGGGGGCCAACCAAAAAAGGGGGGGGGGGGAAAAC CAAAAAACCGGAAGGAAGGCCGGGGAAAAAAAAGGAAGAAAA A G GAAAACCGGAAGGAAAAAAGGGGGGAAAAAAAA GACCGGG GAAAAGGGGAAGGAAAAGGGGAAGGGGAAGGAAAAGGGAAAA A G G G G A A A A G G G G A A A GAACCACGAGGAAGAAAAAGGAAAA G GAACCGGAAACAACAGGGGCCCCGGAAAAGAGGAGAAAAAAG GAAGGAAAAAGGAGAGGGGGAGGGAGGAAGAAGAACAACAAC $A G G A C G G A A G G G G A A G G G G A A G G G G G G A A G A A G C C G A A A C A A$ A ACG G A A C C A A A A G G G A G G G A G G A G G G C C G G G G A A G G G G G G C C G G GACCAGAGAAAAAAGGAAGGAAGGGGAAACAGACAAGGG G G G A A GAGAAAGGGGGGGGGGAAAGGGACAGGGAAAGAAAAA GCAAAGGGGAGAAAGAAAAGGGGAAGGAAGGAAGGGGAAAGA
 GAAAACAAAGGGGGGGGGGAAGGGGAAAGCAAGAAAAGAAAG G G GAA A G G G GAAAGAAAGAGACCAAACGGCCAAAA GGCCGGC C G G A A A A A A A A A A C C A A G G G A A G G G A G G G G G A A A A A A G G G G G GAAAAAAGGGGAGACAAAGAAGGGGAAGGGGGGGGAGGGGAG GAGGGGGAGGAAAGGGGCCGAGGGAAAACAGGGGGAAGAGAG GAGGGGAAGGGGGGGGGAGAAGGAAAAGAGGAGAAAAAGAAC CAAAGAGAGGGGGGGAGACGAAAAACCGGCCGGGGAG
A A A G A G GAAAAAAAAACAGAGGGGGGAGACGAAAAAGAGGA $A \subset A C C G A G G G G A A G G C C G A C A G G A A A A A A A A G G A A A A G G G G G$

AA $A G A G G C C G G A A A A A A G G G G G G A G G G G G A A A A A A A A G A A G G$ A A A $\mathcal{A} G A G G G G G G G G G A A G G A A A G G G G G A A A A A A G G A A G A G G C$ CAGAAGGAGACCCACGAGGCAGGGGAAAGCCAAGAGGAAAAA GAAGACCGGAGAAACAAGGGGGGAGCAACGAGGGGGAGAAC G GAGGGAGGAGGACAGAGGGGGGGGGGGGGGAGGGGA$G A G G A A$ $A C C G A A A G G G G C C A G A A A G G G G G C C G G A G G A A A G G T T G G G A A$ G GAGGAAGGGGAACCCGAAAGAGAAAAGAAGAAGAAAAAAAG G G GAACCAAGGAAAAGGGGAGAGACGGAACCCCGGAAGAGAA
 TAGGGAAAAGGGGGAGGAGAAGGAAGGAGAAGGAGGAGGGGA GAA $A \operatorname{G} G A G G A A A G A A G G G G G G G A A A A G G A A C G C A A G G A G G G A$ A G GACAGAGGGAGAGCCAGACGGGGGAAGGAAGAAAAGGGGG AACGGAACAAAGGAAGGACAACCGGAGGAAAGGGGGAGAAAA A G G G G G G G GCCGGAGGGAAAGAAAAGGAGAGGGAAGGAAAAA GAGAAAACCAGAAAAGGGGAGGGAAGAGGAGGGGGGAAAAAG G G GAGCAGGAAGGCCAAAAAGAGGGCAAACCGGGGAAAAGGG G G G G G A A G GAAAAGAGAAAGGGGGAGAACAAGGAAGAAAAAA A G G A G G G G GCCAAAAGGGAAGGGAAGGAACCAAGBAGAGGAA GAGACCCGGAAAGGGGGAGAAGGAGGGGAGGAGAGAGAAGAG A A A A A A A A A G GAGGGAAGGAAAGAAAGAACCGGAAAAAACAG AAAGGAAGGGGAAGGGAGGGGAAAAGGGGAGAGGGAAGAAGA GAGCAAGAGGGGGGGGAGAGAGGGAGAAGCCCCGGCCAAAGG G G G A A G G C A G G A A C C G G A A A A G GAAAGGGACAGCAAAGAA GA GAAAGACAGCCGGGGCAGGGGGAAGGGAACAAAGGCCAAATC CAGGAAGAAGAAAAAAAAGCAGGAATTAAGAGGGGAGAAAAC CATACGGGAAGAGGAGGGGGGAAAACCAAAAAAAAGAAGAAG G G GAAAAGAGGCCAGAGGAACAGGAGGGGGGACGAAGAGGGG G G GAAA A GAGGCACAAGAGGAGGAAGGAAGGAAGGAACCCCG AAACCAAAGGGGGGGCAAGAACCAGAAGAAGAAAAAGGAGGA GAAGAAAAAGGAGGGGGAGAGAGTAAGCCAGGAGGGGGGGAA AAAGGGACCCCAGAAAGAAGGAGGGCCACAAGGGGCCAACCG $A C C A A A A G G A A G A A A C C G A G G G G G G A A G A A A G G A A G G G G C C G$ GAA A G G G G G T T G A A A G G G G G G G G A C G C G G A G G A A G G G A A G $G A$
 GAGAAGGAAAAAGGAGAGAAAAAAGGGAGCCGGGGGGAACAA $G C C A A A A A G A A C C C C A G G G C A C C A A T A A A G A C A G G A A G G A A G$ G G GAGGGGGGGGGGGGGCCAAAAAAAGCCGAACACAAGGGGG G G G G GAAAAAAGAGGGCAAAAAGAAAGGAGAGAAAAGGAAAA A GAGAGACCAACCAAGGAAGGGGCAAGAGGAGAGAAGAAAAG A A G A A G G G A G G G A G G G G G A GCGGGGCCAAGGGACAAG G G G A A $A C C G A G G G A C C G A G G A A A A C C G G A A A A G A A A C G C G G G A A G A A$ GAAGAGAGAAGACAAGGAAGGGAAGGGCCGGGAAAAGGAAGA $A G G A A G G A A G G G G A A G G G G A G A A G A G G G G A A G G G G A G G G G G G$ G G GAAAAGAAAGGGGGAAGGAAAAAAGGCAAAGBAAAAGAA A A A A A A A G G G GAA $A \operatorname{GAA} A G A A A A A A A G G C C G G A A G G A A C A G G A$ A $G G G G G G G G A A A A A A C C A A G G A A G G G G G G A A G G G G A A A A G G G$ GAACCGGCCAAGGGGAAGGGGGGAAGGAAAAGGCCGGAAAAG G G G A A G G G G A A A A G G G G A A G G G G G G G G A A G G G G T T A A A A C C C CAACCGGGGAACCAAGGAAAAGGAAGGAAAACCAAGGAAGGA A G GAA $\operatorname{A} G C \subset A A A A A A A A A A G G G G A A A A G G G G G G G G A A A A C C G$ G G G G GAACCAAGGCCAAAACCGGAAAGAAAAAAGGGGGAAAA G G G GAGGGGACAAGAGGGGAGAAAGGGCAAGCCAGCCCCCGA
 AGGAACCAGGAGAGGGAAAGATTCAAAGAGGGGGGAAGGGGG G GAGGGAGGAACCGAGGGGAAAAGGAAGGAAAAAATTCAAAG GAGAAACAAACAAGGGGAAAAGGCCGAAACCGAAGACCCGBAA ACCAGAAGGGGGGGGAGCCAGGGAGAGAAGAGAAACCGAACA A G A A G A G A G G A A G G G G G G G G G A A A A A A A A A G C CAA A GAAAA A G G GAA A GAAGGAGAGAAGGCCAAGGGGGGGGGGACCCCAACA

A G GAGCAGAGAGGACAACAAAAGAGTTGGGGAAGGGGAAAAC CAGCCGGAACCGGAAGGGGAAGGAGGGAAAGAAA GAGGAAGG GAGCCACAGAAAAGGAGGGGGAACCCAAAGGAAGAAGCCAAA AAAAGCCGGAAGGGGAAAACCAACCGGGGGAGCGGGGCCGGG GAAGGGGCCAAGGGGGGAAAAGGGGCAAGGGAAACAAAACAG
 A G G G GCAGAGGGGGGACAAAAGAAAGAAAGGCAAAGGGAGGG AAAAGGGGGAGGGGGAAAAGAAAAAAAAGGGGAAGAAAAGAG
 AAAGAAGGGAAAAGGAAAAGGCCACAAGGGGCCCAGAGAGAC CA $A \operatorname{GGG} \operatorname{G}$ GAAAAAAGGGGGGAAAAAGCAGGGAAGAAGGGAAGG AAAACGAGGAGCAGGAACCGGAAGGGAAGAAAGCAACGAGGA GAACCAGGAGGAGAGAGAGAAAAGGAAAACGACAAGGGGGGA A A A A G A G A A G A G G G G G G G G A G A A A CAGAACAGA A A G GA A A A G A GAA $A \operatorname{Gg} \operatorname{A} G A C A C G G A A A A A A A A G A G A A A G G A A G G A A A G G G A$ AAAGGGGGACAGACAAGGAAAGGCCGGGAGGACAAAAAAGAG GCCCCACGGGGAGGGCCAAGGAACCAAGGAGAACCAAGGCCG G G G A A A A A G GAAGGAACAAGAGGGAAACGAGAAGGAGAACAA
 CAAGAAGGAAAAAAAAGAACCGGGGGGGAAGGAGGCAAAGGA C C C A G A A A A G G A A A A G G GACCCCAAAC G G G GCC G G G G G GA G G A G G GAA A A G G GAGGGAACCAAGAAGGGGGAAAAGGGGAAAAA CA $\operatorname{ClG} G A A A A A C G G A G C A A G G C C G G C A A A G A G A G G G A G A A A$
 A G G G G A A C C G A A G G GA $A$ A A A G G G GAGGGAAAGGGGGAA GAAA A GAAAAGAAGGGGAGACAGGAGGAAAAGAGAGAGAAAAGGGGG
 A A GAA A A A G G G GAGAAAAGACAGGGAAGAACAGAGAGAAAGC CAAAAGGAAGGAAGGAAAGGGGAAGGAAAAAGAGAAGAGAGG G G G A A G G A A C C G GAGC C G G G G A A TA $\mathcal{A} G A G G G A A G G G A G G G G G$ GACCAGAGGGGAGCCAAAAACAGAAGGAAGGAAGAAGAAACB AAAAGGGGAGAGGGGCACCAGGAGGGAAGGGGGGGGGCAGAA GCCGAAGGGGGGGCAAAGAAGGGAAGGGGGGGAAAAAGGGGC C G GCCAAAGAGAAAAAAGGAAAACCAACCGAGGGGCAAAAAA GAAAGGGGGTTGGGGCCGAAACCGGAGCACAGGGGAAAAAAG G G G A A A A C C G G G G A A A G G G A A C C A A GGGAGGCA GA G G A G C A A
 A G G GAA $A \subset C G G G G A G G G A G G G G A G G G G G A C A G A A G G G C A G G T$ TCCAAAGGGACAAGGACAGGGGGGGGGAAGGGGAAAAAAGAG AAAGGAAAAAAAAGGCCAAGGAAAAGGGGGGATAAAAAAAAG GAAGGGGGGGGGAGAGGGGGGAAAAAAGACCGGGGACGAABA A GACCAGAAGAAAAAGGGGAAGGAAACAGCCGGAACAAAA G G $A$ G GAGAGAGAAAGGGGGAGGAGGGAAAAGAGGGGAAGGGGGGG GAACGGGAAGGAAAATTAAAAGGGGAACCGGAAAAAACCGGG
 CAAA $A \operatorname{A} G A C G G C A G G A A G G A G G G G G A G A G A A A A G G G G G A A G A$ A A GAA $A \operatorname{GA} A A A A C C C A G G A G A G G A A A G C A A A G G A A C C A A A T A$ GAGAGGACAGAGAAGCCAGGGACGAGAAAGAAGAGCCAAAAG A A GAA A G G GAA $A \operatorname{AGGGGGAGGAGGGGCCAAAGAAAAGACAAAC}$ A A A A G G G G G G G G A A A A A A A A GAA A G GAA A G GAAA A C C G A A G G G G G GACAAGAGAGAACAGGGGGGAAGGAAAGCCGGAAAAA GA A G G G G G G A G G G G G A A A $\mathcal{A} G G G G A A G G A A A G C C G G G A G A G A G A C$ A G G G G A G G A A A G A A A G A GACCAACAGGAAGAGGGGAGAAGAA AA GAA AAAGGGGGAGAACCAAGGAAGAAGAGAGAGGGGAAGA A G G G G A A A A G G A A A A C CAGGGAAGGGGGGAAAAGGAGCAAAG GAAAAAAGGAAGGGGGGGGCCAAGGAAGGAAAAAAAAAAGGC C G G G G G G C C A A G G A A G G G G G G C C C C A A A A G G C C G G C C
 CAAGGGGCCGGAAGGGGGGGGGGGGAAGGAAAAGGGAAAAAG

GAACAGAGGGAAGGGGGAGGGGGGGGGGGGAAAAAGAAAGAA A GAGACCAAGAAGGGAGAGAGAAGGAAGGAAGGCCAAGAAAG G GGAGAACCAAAAAAGGAAAACCGAAGGGAAAGCACACCAGA GAAGGAAGAGAGGAAAAGGGACAAGAAGGGGCCGAGGGAGGA G GAAAGGAGACGAAGGAAGGGGGGAGAAAAGGGCCAAAAAGA GAGGGGAGGCCGGAAGGCCGGAAGGGAGGAAAAAAGGGGGGA A A G G G G A G G A A A G G G G G A G A A A G G A G G G A G G G A A GAA A A C C A A GAACAACCGAGGAAAGCCAAGGGGAAAGGGGGGGAAGAAGG GAAGGGGGGCCGAGAGAGGGAAAACGAAGGGAGAGGGCCGGA
 $G C C A G G G G G G G A A G A A G C A G A G G G G A A A A A A G A G A A G G G A G G$ AAGGAAGGACCGGAGCAGGGGGAAAGGCCAAAACCCCAAAAG G G G G G A A G GAA $A \operatorname{GGGGAAGAAGAAAAGGAAAAAACACACAACA}$ C G G A A G G A A A GAGGGC C CA A A A A A A GGGGAAGAAACCCACA G GAGAGACGGAAAAGGGGAGGACCGAGGAGGGAGGGAAGAAAG $G C C C C G G C A A G A A C C G G G G G G A G G G G G A A G G G G G G G G A B A A G$ GAA A A G G G G G G GAA $A \subset C A A G G A G A A G A G G G G G G G A G A A A G G G$ G GAGGAGAAAGGGAGGGAAGAGAAAAGAAGGAAAAAGAAAGG $A C C T A A G G G G G G G C C A C A G G A A A A A A C G A A A A A A G A A A G A A G$
 AGGAAGGCCAAAAAACCGGACGGGAGGGACCAAGGAAGGGGC C G GAAAACCAAAACCGGAAAAAAAACCGGCCAAAAGAAAAAG $G C C G G A A G G A A G G G G C C G G C C A A G G A A A A A A A A G G A A A A G G T$ TGGAACCAAGGAAAAAAAGAAAAAAGGAAGGGGAACCAAGBA

 GCCGGGGAAAAAATTGGGGCCAAGGGGAAAAAACCGGAAGGA AAACCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAGAAAT TAAAAAAGGCCGGAAGGGGGGAATTAACCGGAAGGGGGGGGA AAAAAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAG G G G A A G G A A C C A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G GAAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGAA A G G G GCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAG G A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G G A A A A G G G GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA A A A G GAA $A \operatorname{GAAAAA} G G A A G G A A C C G G A A A A C C A A G G G G G A A A A$ A G G G G A A A A G G CA $A \operatorname{GGG} \operatorname{GA} A G G A A G G G G A A G G G G G G A A G A A A A$ A A A A A G GAAGGAACCGGGGGGGGAAAAAAGGAAGGAAAAGAAA A $G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A$ A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGG $G C C C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G A A A G$ GAAGGAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAAC C G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGAAAC CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACCAACAG GAACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGEG G G G A G G G A A G G A A G A G G C A A A A A C CAAAACCTAGGGAAAAAG $A \subset A G G A A G A G G G G G G A A G G G A C C A A G G G G G G C C A A A A C A A A G$ GCCGGAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGAAACA GAA A G GAGGAAGGGGGGGGAGCCGGGGGGACAAAAAGAGGGC G G A A A A A A G A A A A A TAAAGGGAAGGCAAATTAAAAAAAACAA A A A A A A A G A A ACC GACCAAAAAGGGGGAAAGGAGAAGAAACA G G G G GCATTGGAAAAAGCCGCACGAAAGAAGTAAAAAG G GAT TAAACAACCAAAAAAAAGGGGGAGGGGGACAAGAGAGCAGBA AAAAAGGGGGGGAGGAGCCGGAAAGGGAGGAAAAAGGACGGA A A A A A A ACAAGAGGGCCGGAACCGGGAGAGACCGAAGGAAAG A A G A A A A G A G A CAA A TAAAAAGAGGAAAAAAAACCCAGGGGA A A A A A A A A A A A A A C A CAACAAAGCCGGAAGGAATTAAAAGAA A A A A A G G A G A A G A A G A A GAGGCCCCGGGGAGGGGGACGAAA G G G GA $\operatorname{GAA} A \mathrm{~A}$ GAAGGAAAACAGCAGGGAGACACAAGGGACCGGA

G G GAACCGGAGGCAAGGAAAAAAAAAGGGGGAAGGGGAAGGG G GAGAAAAACCAAAAAAGGAAAAAGAATTGGGAAAGAAAA GAC C G G G G A A C C A C A G G G G G G G GAAA A A A A GAACAG GAAA A GAAA C A G G GAGAA $A$ A A A G A A A A G GAAAAAAA AAA AAA AA G G G G GA G G G $G C C G G A A A G G A G A A G G G A A G G A A A A A G A C C A G G A A G G A A G G G$ GAAAAAAAAAAGGAGGACCGAAAGGGAGGGAAGGAGAAGAAA A A A A A A A A G G G A A A A C C G G G G G G C C A G G G G G G G A A A A A A A G G GAAGGGGAAGGACAGGGCAACCACCAGGGAAGGAAGAAAGGA C GAGGAAGGGACCAAAGATAAGGGGAAGAAAAAAGCCGGGGA GAAGAGAGACGCACCGGGGCCGGGGGGAAAGGAGAGGGACCG G G GAACAAAAGAAAAGAAACAGAAGGAAGGGCACAAAAGAAC CA G TACCAGGGAAAAGGCCAAAAGGGGACAAAGCCGAAAGGG ACCAAGGCACCGGAAAGGGGGAGAAGATTCCAAGGGAAAAAA A G A G A A A G GAACAAAGGGCAAGGGGAACAAACCGGGGGGGGA A G G G G A A A C A A A C G G G G A A G G G G G G GA GAAACCCC GA G GAAA G G GAAAAGGAGAGAGAAGGCAGGAAAGGGGCAAGGGAAAAAA G G GCCAAGGGGAAGGCCAAAACGAAAAACGAGACCAGAGGGG A GACCGAGAGAACACGGAACCAAGGGAAGGGCGGAAAGAGAA AAAGGGGGGGCGGAAAAGGAAGAAGACAGGCAGAAGGGAAGC A G G A A G A A A G G GAGAGAGGGGAAAAGGAAAGGGGGAAAAAAC A GAGAGAAGGAAAAAAAAAAAAAAACAGAGGGGGGAAGAAGA GAGGAGGCAGAAGAGGGAAGGCCAGAAAGAAAGAAGGCCCCG G GAAAGGGGAACCAGAAAGCCAAGGGAACAAGGAAGGGAAAG A A G G G A G A GAAAA A GAA A ACCAAGGGGCCGGGGAGCCCXGAA $A C C G A A G A A A A A G A C A G C C A A G G A A G G G G A C A A G A G A G G G A A$ GACGAGGAGGGAAAAAAAGAGGGGGAAGGCCGGCCAAAAGBA AAAGGAAGGAAAAGGAAGGAAAAAAGGGGCCAAGGAAAAGAA A A ACCAAAACCCCCCAAAAAAAAGGAAGGGGAAGGGGAAAAG G G G A A G G A A A A G GA GAAGC G GAGAAAGGAGGACAAGAAAG GA AAAGGCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAGAA G G G A A G A A A A G G G A A A G GACAGGAAAAGAAGAGACAAGAGGA $A C C G G G G A A A A G G A A A A A A G G G G A A G G G G A A A A A A A A A A G G G$ G G GCCGGGGGGAAGGGGCCAAAAAAGGCCGGAACCAACAAAAA A G G G G A A A A G G G G A A A A A A G G A A G G C C G G G G G G A A A A G G A A G G G G G G G G A A G G G G G G A A A A A G G G G G G A A A A G G G G A A A A G G A A $G$ G G G G G C C G G G G G G G G G G G G A A G G A A A A G G T T G G A A A A G G A A A A G G G G A A G G G G A A C C G G A A G G G GAAGGGGAAAACCAAAAAA $A$ G G GAAA A G GAAAAGGCCAAGGGGGGGGAATTAAGGAAAAAAA
 $A C C A A G G G G A A C C G G A A C C G G A A G G A A A A G G A A G G G G G G G G A$ A G GAACCGGCCAAGGAAAAAAAAGGGGGGGGCCCCAAGAAAA A G G G G G G C C A A G G G G G G G G G G G G G G A A G G C C A A G G A A C C A A G G G GAA $A \operatorname{GA} A A A A A G G G G A A A A A A A A G G G G A A G G C C G G G G G G G$ GAAAAAACCCCGGGGGGGGAAGGCCAAAAAAAACCAAGGTTG G G G A A A A G G G G A A A A G G A A A A G G A A C C A A G G G G G G G G G G G G G GAAGGTTAACCGGGGGGAAAAGGGGCCGGGGAAAAGGGAAAG G G GCCAAAAAAGGGGGGGGAAGGGGGGAAGGAAAAAAAAAAG GAAGGGGAAGGAAGGGGGGGGGGAAGGGGAAAAAAGAAAGGA A G G A A A A G G A A G G G G G G G G G G G GCC C G A A C C G G A A A A A A G G A AAAAAAAGGAAAAAAGGAACCCCAAAATTCCGGCCGGGAAAA A A A C C G G G G G G A A G G G G G G A A A A G G G G G G G G C C A A A A A A G G A A A A A A A A A A A A GGCCAAAAAAAAGGAAAAAAAAGGGGGGGGAA A G G A A A A G G C C A A T T A A A A A A A A C CAAAAGGGGGGAAGAAAA AAAAACCAACCGGAACCGGAAGGCCGGAAAAAAAAAAAAGGA A A A A A A A A A A A A A A A A A A A A A G G A A A A A A G GC CAA G G A A G G A AAAGGAACCCCAAAAAAGGAAGGAAGGGGAAGGGGGGGGGGA ACCCC G G G G A A A A G G G G G G G G G A G G A A A A A A A A A A G A
G G G G G A C C A A G G G G A A G GAGC CAAGGAAGGAATAACA GAGG GAAAAGGGGAAGGGGAGAAAAGGCCGGGGAAGAGAACGAAAA

A G GAGAAAAGGGAAGATTCCGGAAGAAGAATTAAAAGAAAC CACAGAAGAAGGAGAAGAGAGCAGGAGGAAGAAGAAAGAGGA GACAAGGAGCCAAGACCGGAAGGAGAAAGCCAGAAAAACGGG C G G GAAAAGCCGAGAACAAAAAAAAGAAAAGGACCAACCGGC CAACCACACGGCAGGAAGGGGAGGGAGAAAAACCCAAAAAGA G G GCC GAAAAAAGAGGAAGAACCAACGGGAAAGGGGBCAAAG G G G G G A G G A G GCC G G A A A A A A G G GAGGC C G GAGGGG GACAAC C G G GAGAGAGGGAAGAGGGGATTAAAAAAGGAAGGGGAGCAA G G G G A A G G C G G A G G G G G A G G G A G C C C CAA $A$ G A A G G G A A G A C A GCCAAGGCCAGAACAAGGAGAAAAGAAGACCAAGGAAAAAGA
 GCCAGAAAAGGAACAAAAAAAGAGGGCGGGGAGGAGAAGAGA GAGGAAGGGAGACAGGAGGCCACGGACACGGGGAGACGAAGC AAGCAGAACGAAAAAAGCCAAAGACAGAAAGAAAGGGGACAG G G G G GCCGGGGCCAAAAAGGGAAGGACGGGGAAAACAAAAGA A A A A ACAAAGGAAAAGGACGGGGGGAAAACCGGGAGGGAAAA
 GAAGGAGCCAAAGGGGGAAAAGGAGGGAAGGAACCGGGAAAA $A G A G A G G G G G G A A G G A A C C G G A G A C G A G G A A G G G G A A A A G G G$
 AA $\operatorname{A} A \mathrm{~A} G A A G G G G G G A A A G G A A G A G G G G G G A A C C A G G A G G C G G$ G G GAACCAAAAGAGGCCGGGGAAGGAAGGGGAAAAGGAGGGC CAGAAGGGGAAAGGAGGGGAAGGAGAAAGGGAGAGGAGAAGA A GAGGAGAAAAGGAAGGAAAACCGGCCAAAACCGGAGAAGGG A GAA $A \operatorname{GGG} G \operatorname{GA} A G A G A G G C A A A G G T T A A G G G G G G G A A A G G G G C$ $C C C G G A G G G A A G G A G G G A G C A G G G G G G A G G G A A A G G G G G A G A$ A A G GAACGAAGAAAAGGAAAAACAGACAAAAGGGGAGGAAAA C G G A G GAGGCCAGGAAAAGAAAAGGCCGGAACAAGAGAAGAA TAGGGGGCAGGGATTGACCAGGGAACCAAAAGGAAGAAAAAA AAAAGAGGGAAAGAGGAGGCCCCGGAACAGAAACAGGAAGAA ACCGGAAAACCCAGCAGGACAAGCATTGAAGCCAAA GAAAGA AAGAAAAGGAGAGAGAAGGGGCCGGAAGGGGAAAAGAGGAAA GACCAAAAACCGGAAGGAAAGAGAGGGAAGACCAAGGGGGGG G G G A A G G A GAGAAGGGAAAGAGAGACAACGAAAAGGGGAAGC A GAA $A \operatorname{GAAAAAAGAAAGGAGAAAAAGAGGGAAAAGAGAAAGGA}$ GAGTTAAGGAAAAGGGAAGAAAAAAGGGGAAAGAAAAAGGGA AAAAGAAAAGGCCAGAGCAAAAAGGAAAAGGGGGAAACAAAA
 G G G A A A A $\mathcal{A} G G G G G A G A G G A A G A G A A A A G G G A C A G G C A G G G G C$ C T TATA A A GCCCCAAGGAGACGGGGAAAGCCGGAGAAACAAG AAAGGGGGGCCGGAACCGAACAGGAGGGAAAGGAAAAAAAAG G G GCACCAACCAAGGAAAGGAAGACAAGAAGAGGGAATAAAG GCGGAA $\operatorname{C}$ G $A G A A A G G G G G A A A C C A G A G A A A G G G A A A A C A G G G$
 A G GAGCAGAAAAAACAAGGGAGAGGAAAAAAAAAAGAAAAGG GAGAAGGAAGGGGAAAACCCCAAGGGGAAGGAAAGAAAAAAG GAACC G G A A A GAAGGGGGGAGAAGGGGAAAACCGGGAAAAAG G G G G G G G G GAACAAATACCAGAAAAGAAAGACATTGGGAAAA A G G G G A A G GAAAAAAAACAGGCCGGCCGGAGCCAACAAACAA A A A G A G G A A G G G GAAAAGGGGAAGGGGAATTAGACCAAAAAA ACCAAAAAAAGGGTTGGCCGGAAAAAAAAAAGGAATTACGAA A A A G G A A G G GAGGAGGCGAGGCCCCAACCGGGGAGAAAAGGG ACAAAAGAAAGAGAAAAAACCAGACAGAAAAGAAAGAAAAAG AATAAAGAACAGGCCGAAAGAGGCCAAAGAAGGGGAACCCCG G T TAAAAGAGAGGAAGGGGAACGAAAAGGAAAAGGAAAAGAA AAAGGAGGGAAGAGAGAGACAAAGAAAAAAGAGCCAGAAGGC A GACCAGCAAGAAAGAGAGGGCCAAAGAAAAGGCCAAGAGAG G A A G A A A C C G G A A A A A A A A A A A A A A G GAA G G C G A G A GACC C A AGGAAAAAACCAAGGGGAAAAAAAAAAGGGAGGGAAGGAAAA

G GACAGAGGGAGAGGGAGAAGATAGGGGAAAGGGGAAGGGGG
 A G G G A A A A C G GCCAAAACCCCACGGCCAAGGCCGAGGGAAGG AGACCAAGGGGAAAAAAGGGGAAAGAGAGAAGGAGGACCGBA AAAAGGAAAAACCAAAAAAGGAAGAAGCAGGAGGGGGAAGAG A A G G G A A A A A $\mathcal{A} G G G G C C A A G G A G G G G A A G G G G A A A A G A A G G G$ GAAGGGAAACGAGAGGGGGGGAAGGGGCAAGAAAGAAAAAAG GAAAAGGACCGAGAGGGAGAGACGGGGGGCAAAAACCTXAAG G G G A A C C A A G G A A A A G G G G G G A A G G A A G A A GAA $A$ G A G G G C A G GAGAAAAGGAAAAGGAGATGAAGACAAGGAAAAAAGGGGACG GAA A G GAAAGGGGGGAAAGAGAAGGAGAGAACCGGGGAAAAG A A G A A A A G A G A A A G G G A G A A A A G G GAGGGGAGGAA GAGAC CA $G G A A G G A G G A A A A G G A A G A G G G G A A G G G A C G A C G G G G G G G G G$
 G GAA $A$ A A C C G GAGAGAAGGAGAGCAGGAAGGAAAGGAGGGGG AAGACAAGGAAGAGAGAAAAAGGCCGGAAGAGGGAAAGAAAA
 A A G G A A G G G G G A G A G G G A A A G G G A A GAGGAAAA G G G G CAA A A AGGAAGGAAAGGAAGCAGAAGAAGGAAGGCCGGCCAAGGGGG A A A G G A A A G A G G A G G G A A G G A A C G G G G G G A G A A G G G G A G G G A
 GAAGAGACCGGAGAGAAAAGAACACGGAAGGAAGGAAGCGGA
 A A A G G A A G A CAGGAAGGGGGGAGGAAGAACCCCGCCCACAAG AACGAAACGAAAAAGAGCCAGAGACAAGGAAGGAGAGAAGGG
 ACCAGGGAAGGCCAAAGGAACGGGGGAGGAAACAAAAAAAAA
 CAAAAAATTCAGGAGGGGGAAGGAAAAAAGGAAGAGGGGGGG G G G A A A A G G G G A A G GAAAGCCGAGACCAAGACCAAAGCGGGG A G G G G A A G G G G G A A G G G A A A A A G G A G G G A G A C C G G G G A A G G A
 CAACCGGAGCAGGGGAAAAGAAGAGGGGGGGGGAAGGCCGGG A G G G G A A A A A G G A G G G A C A C C A G G G G G G G G G A G A G A C A G C C G GAGAGAGAAAAAAAGGAGGGGAAACAGAAGGCAGAAGCAAAG GAACCAAAGAGAAGGAGAAAACCGGAAAAAAGGGGCCGACAA A A A GAGACCGAGGGACCGGAGACGGGGGGCCAACGGGACGAG G G G A A G G G GAGAAGAGGGGGGAAAAACCCGGCAAAAAGGGGG G G G G G A A G A G G G G A A G G G G A A A A G G C CA G GAAAA A G G A GAA A
 AAAGGAAGGAAGGAAGGAAGGCCAAAAGGGGCCAACCAAAAA A A A C C G G C C C C G G A A G G G G G G G G A A A A G G A A G G G G G G G G A A A AGGAACCCCGGGGAAAAAAAAAAGGGGAAAAGGCCAAGGGGG G G G A A G G G G A A A A C C G G G G G G A A A A A A G G T T G G A A G G G G G G G G G G A A $\mathcal{A} G G G G G G A A G A A A G C A G G G G G G G G A G G A A G A A A A A A G$ A G G G G G G A A G G A A G GCCAAACGGCCGGACGAGAAAAGCCCAA A CAGAAAAGGGGAAAAAAGGAAAAAGGCCAAGGAACACAA GA G G G G G A A G G G GCC G G G GCC G GCC G G G G A A G G G G G G G G A A A A $G$ GAAAAAAAACCGGGGAAGGAAGGGGCCGGAAAAGGGGAAGGG G G G A A A A A A A A G G G GAAAATTAAAAAAGGAAAAAAAAAAGGG GAAAAAAGGGGGGAAAAAAAAGGAAAAGGGGGGAAAAAAGAA A G GAA A GAAGGCCGGAAAAGGAAAAAAGGAAAAAAAAAAGGG G A A A A A A C C G G A A A A G G G G G G G G G GAA A G C C A A C CAACAAAC $C G G C C G G G G G G A A C C A A A A G G A A A A A A G G A A C C A A C C C C G G A$ AAAAACCGGGGGGAAAAAAGGGGGGGGAGAAGAAAGAAAGGC AGGCCAAAAAAGGGACGGGCACCGAAAGGGGAAAGGAAACCB GAAACGGACAAAGAGGGGGGGAGAGACCCCCACAGGG
A A GAGGAAAGCCAAGGGGAAGGGAAGAAGGAGGGAAGGGGG GAAGGGGAGGGAAGGAAGGAAGGGGGGAGCCAAAGCCAGGGA

A A A A GAAGGGGAGAAGAGGAGAGAACCAGGAGAAAAAAAGAG A A A A A G G G GAAAAA A $A \operatorname{A} \boldsymbol{A} A C A A G G A A A A G G G G A A G G G A A A G A G$ GAAGAAAAAAAAAGGGAGGACCCAGAGAGAGAAAAACAAGAG GAGAGGGAGAACCGAACGGGGTAAGAGAGACGAAAGAACCCG A G G G G G G G A G A G G GA $A$ A $A G G G G G A A G G G G G A A A G G A G A A A A A G$ GAGAGGAAGAAGAGAAAAAAAAAGGAGGGGAGAGGGAAACAG G G G A A C C G G G G A A G G A A G G G G A A G G G G G G A A C C A A A A G G C C C C G G G GAAA AAACCGGGAAGCCCAACGGAAGGGGAAGGCAGAG GAGAGGGGAGGAGGGGGGAGGGAGGACAAGGAAAAGGGAAGA AAGGGGGGGAAGAAAAGAACCGGCCGGAAAAAAAAGGAAAAC CAGAAAGAATTAGACGGAGAAAAGGAAGGAAACCAAAGAAGG
 A GAGAAAGAGGAGGAGGAAAAGAAAGAAGAAAGACCCAGAAA G G G G G G A A GAAAAAGAGAGCAAAGGCCGGAAAAGGAAGAAAA A A GCCAAAAGGGAAAGAGAGGGAGAAGGAAAAAGGGGGAAAG G G GCCGGGGGAAGACAGGGAAAAAAAAGGACAAAGAAAAAGAA AAACAGGGGAAAAAAAAAGGAGGATAGGGACCCGGGGAAAAG GAAAAAAAGGGAAAGAAAGAAAAGGGAAAAAAGCCGGAAGAA GAAGGGAAAAGAAAACAGGACAAGGGGGGGGAAAGAAGGCCA AACCCACGCGGGAAAAACAGGAAAAAAGGAGAGATAACAGAA $A G G C C A A A A A G G G G G A A A G G G G G G G G A A G A A A A A G G A A G G G G$ A G G G G G G A A A A C A G G A G G G G G G A G G G A A A G GA $\operatorname{A} A \mathrm{~A} G \mathrm{G}$ G G T T A AACGACAAAAGCCGAGGAAAGAGGGAAGGAGGGCCGGCAAAA GACA $A \operatorname{A} A G G G G G G G G G G G A A A A A A G G C A A A C A T A G G G A G A G G G$ G GAGGAAGAGGAAACGGAAGGACGGACGAAGAAGAAGAGAAC A G GACAAGGGGAGAAAAAAAAGGCCGGGGGGGGAGGACAAGA GACGAAAACAGATAGAAGGGGGACCAAGGGGCCCCAACAAGG GAGGGGGGAGGGGAAAAAGAAGCAAGAGAAATXACGGGAGAA $A C A G A A G A G A G A A G G C A A A G A A G A C G G A G C C A A G A G G G G C A C$ $A C C A A A A G A A C A G G G G G A A G G C C G A A A G A A A A A A G A G G A G A A$
 G G G G G G G G G G G GAGGGGAACCAAGGCAAAAAACAAGGGGCAG GAAAAGAGGAAGGGGAAAAGGGGAAGGGGAAGGAAGGAAAAA
 A G GCCGGAAAAAAGGCCCCGGAAAACCAACCCCGGGGAAGAA
 A G G G G A A G G A A G G G G A A G G A A A A G G G G G G G G G G G G G G A A G G C A G G G G A A A A G GAGAGGGAGAAAAAAAGGGAAGGAA GAA GA GA ACCGGCCGGAAAAAACCCCGGGGGGTAGCGGGGGGAACAAGG G G G G G A G G G G G A A A A A A A A A A G G A G G G A A G G G G A A G G A A G G A AAAGGCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAAGAG GA GAGCCCGGAAAATGAGGAAAGAAGGAGAGAAAA GAAAGGG $A G G G G C C G G A A G G G G G A G G G G A A A G A A G A G G G G G G G G A A G G G$ A A A G A A G G G G A G A G GAAAGAAAGGCAAAGAAGAA GAGGGCCG G G G A A A A A A A A GAGGACAACAACAAGAGGGAAAAAACAAGAA A G GAA A A A GAGAA $A \operatorname{A} G A C A G A A G G A C A A G G G G A A G G C C G G G G A$ A A A A A A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G A A G G G G G A A A G A A G G$ GAGGGGGGAAACCAAGGGAAGGGAACAGGAAGGGACCGGGGG GAGGAACGAAAGGGGCCGGAAACAAGAGGCCAAGGAGGGGGA G G G A G GACCAGGACCGGGGTAAAAACCGGGGABGAAGACCA A GAGGCCGGAGAAACAAAAGGGAGAAGAAAGAAAAGGGGGGA A A A A A CAAAAAGGAAGGAAGGAAAAAAAAGGACGGAGGGGGG $G G G C C A A C C A A C G G G A A A A A A G G G A G A G G A G G A C C G A A G A G A$ AGAGGAGGAGGAACCGGGGGAGGGGGACCAAGGAAACAAAAA GAATTAGCCGGGGGGAAAAAAAGACGGAGAAAGACCAAAAAA A A G G G G G A A G G A A A A A A C CAGGGAATAGGGAAGAAGATAAAC C GAGGGGAAAGAAGGAAGGGGCAAGACGAAGAGGAAGAAAAA A A A A A A A C C G A A A A A A A G GAAC CA GGGAGGGAA G GA G GAACA $A G G A G G G C C G G G G G A A G G G C C A G A G G G A G A C A A A A C C G G G G G$

G G G GAAAGACGGGGGAAGGGGAAGGCCAAACAAAGAGGGAGG G G GAC GAAAAAAAAGAAGAGGAAAGAGAGACTTAAAAAAGGA $A G G G G G G A G G A A A A A G G A G G A A G G G G A C C A G G G G A G G G A A G G$ A G G G G A A A C A A G G G G G GAGAGGGAAAA GAGAAGAA G GAGAAAA G G G G GAAAAAAAACCAAGGGACAAAGAGAGGAGGGAAAAGAA C GAGGGGCAGAGAAGGGGGAGAACCAACCGGAAGGCCGGGGG A A GA GACACAAAAAACAACAGAGGAAGGGAAAGACBAAGAAG GAGACGGAAGGAACCGGGGGGCCAAGGGGAAGGGGAAGAAAA A G G G G A A G G A A G G G G A G A A A A A C A A A GAGAA GAA A A A GA G A G AGGAGGGGAACAAGGAGGGAAGGAGGAAAGAAGGAGGGAGAA AAA A A A A G A A A C C GACAAGGGGGGGGACCAGGGGGAGGAGGG GAACCGGAAGAAGAGAGGGACGGAGAAAAGGAGAGGAGAAAA
 $G G G G G A G A A G G G G G G A A A A G G A A G G G A G G A G A A G G G A A A G G G$ GAAGAAGGAGAGGAGCCGAGGGGAGGAGGAGGAGAAAGAAGA A G GAGGAAAAAGAGAGACCAAAAAGACGAGGGGGAGAA GAAA A GACAA $A \operatorname{AGGCAGGCAGGAAAACAAAAGAAAAGGGGGAAAAAG}$ GAGCCGGAGAAGAAGAGGGGGAAGGGAAAAGGGGAGGAAAAG GAAAAAAGGAAAAAAGGAAAAAGGGCCGGAAGGAAAAAAGGA G G G A A G G A A G G A A G GAA A G CA $A \operatorname{AGAGGAGGGAAAAAGAAGAAA}$ G GACAAGAAAGGGGAGGGAAAGGCAGAAAGGACCAAAGAAAA AAAAGAGCCAAGAAGAAAAGGCCAGAAAGCAGGGGAAAAAAC CAAGGAACAAGAAGGAAAGGAAGGAGGAAAAGAGGAAAAGAG G G G G G GA $\operatorname{G} G A G A G A A G G A A C C G G C C C A A A A A G A G G G A A G C A G$ GAAGGGGCACCAAGGGAGGAGGGGGCAGGAGGAGGAAGAGAC CAAGGGGGGCCAGAACCGGGGACGACCGAAGAGGAAAAGGGG
 A G GAAAAAAGAATGAGGGAGGAAAAGGAGGAGAGGAACAGAA $G C C A A G G A A G G G G C C A G G G C C A A G G G A G G A A A G G G A G G A A A A$ AGGGGGAAACCAACCAAGGACGGAAGAGGACGGAAAAGAAAG G G G G G G G T T G G G G C C A A G GAACCGACCACAGAAACAGAG G GA AGGAGGAAAGGAAGGAACCGGGGAGCCAAGGAAGGAGACGGG GAAAAAACCAAGGGGGGGGAACCAAAAAACCAAGAGGCAGAAA A G G G A A A G G C C G G A A $\mathcal{A} G G G G G G G A G G A G G A G G G A A A A A A G A A$ G G A G G A G G G A G G A G G A A G A G G G G G G A A A G A CA G GAC C C C A G G A A A G A A G G A G A G G A A G G A G G A A A A G G A A A A $\mathcal{A} G G G G G G A G G G G$ A GAA $A$ A A $\operatorname{A} G A G A C G G A A G G G G A A A A G G G G G G A G C C G A G A G G C$ $C G A G G C C G G A G G A G G A C G A G G C C A C G G G G A A G G G G A A A A G G G$ G G GAACCAGAAGGGAAGAGGAAGAAGGGAGAAACCACAAAAA
 AAAGGAAGGAGAGGGCCGAAACAGAAGGAGAGAAAAGGGGGC CAAAAGACAAGGAGGGGAAAGAAGAAAGGAGAGAGAAGAGAG A A A A A A GAGCCAAAAAAGGGGGGAAACAGAAAAGGCAAAGAA GAAAAAGAACCAAAGAAACGGAAGGGACCGGGAABAGGGGGA

 GAAGATTGGAGTAAGGGAAAGAAAAAAGGGGAGGGGGGGGGA GAGAAGGGGGGGAAGGGGGGAAGGGGAGGGGCACCGACAGGC CAC GAGAGGGAACAGAAAAAACCGGGGAAAAAGAAGGGAACA A A A A A A A A ACCGGCCGAGAAAGGAAAAGAAGAACCAACAAAA C GAGGAAAAGGGGAGAAGGAAAGCAGGAGAGAGGGCAAAGAC C GAAACAAAGGAAGGAGAGGAGGAACCGGAGGGGGCAAAAGAG G GAGGAAGGAAGGGGGAGGGAAAAAAAGGGGCCGGGGCCGGG GAGGGGGAGAAAACCGGAGGGGGAAAAGAAAAAGAGGCAAAA A GAA GAAAACAAAAAAAACACGAAAAAGGGAAAGBAAAGGAG A A A A A G G C C G G A A G G A A A A G G A A A A G GAACAGGCC G G G G G G T TA $A$ A A A A $A G G G G A G A A G A A G G G G G A G G G G G G A A A A A G$
ACGGGGAAGGAAAAAAAGGGGGGGGAGAGAAGAAACCAGGG $G G A C C C C A A G G A A A A A A A A A A A G G G G A A G A A A G G G A G G G G G G$

GAAA A A GAGGGGGGAGGAAAAAGGGAAAGAAAGGAGGGGGGT TAAGGAAGAAAAAGAGCAAGGAAAAGAAGGACCAAAAAAGAG G GAAA AAA A $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A A G A A A A A G A G G A C G A G G A C G G G A A C A$ A GAGAGGGAGGAAGGAAAAAAAAGGGGGGAAACAAGAGACAA $A C C A A A G A A G A G A G G A A A A G G G A G G G G A G A A G G G A G G C A G A A$ A ATGGGAGGAAGAAGAAAAGGTAAAGAAGAGGAACAAAAAAC C $G G G G A A G G G G A G A A A A A G C A G G C C G G A G G G A A G G A A A G A G G$ G G G G G G G G A G GCC G G G G G G G G A A A A G GA A C C G G A A G G G GAA $\mathcal{A}$ A GAGGAAGGAAGAGAAGCCAGGAGAAAAGCCGGAAGGAGAAA A GAAGGGGGAGAGGGGGAAACGGCCGGAAAAGGCCGGGCCCT A A G G G A A A G G G G G A A G GAAC CAAAAAGGGGGGGGAAGAAAAAC CAA $A \operatorname{GAA} A G G G G A A G G A A A G G A A A A A A G A G G A A A C C G B A A G A$ A A A A GACCCAGAGAAAGAGCCAGGAAGGGAAAGGGAAAAAAG GCCGGAACCAGGGGGAAAAAAAGGGAGAGGGACGGGAAAAAC CCCAGGGGGGAGAAACCGGCGAACAGAAAGGGGAAAAAGAAA $A C C G G A A G G G G G A A A A G G G G G G G A C A G A C G G G G G G A G G A A A A$ G G G G G GAGAGAGGGGAAGGACAGCCAAAAAGAAGAAGAACAA A A GCC C A G A G G G A A G GAGGGGGGGACCAGAACCGBAAGAAAC C CAAACCAGCAACCAGGAAGGAACAAGGGGGAAAAGGGACCA G GAAAGGACGGCCACCCGGAAGGGGGGAAGAAAAACAAAAAG G G G GACAAGAGAACCAACCCAGGAAGGGGAAGGGGGAAAGAA A A A A A GA GA $\operatorname{A} A A \operatorname{A} G A A A G G A A A G A A G G G G A G A A G A G A G A G A G$ A A GCA $\mathrm{C} G \mathrm{G} G \mathrm{G}$ GA $A \mathrm{G} A \mathrm{GA} A A A G G A A A A G G A A A A A G A G G A G A A A G$ ACAAAAGGGAAAAGGAAGGAGGGCCTTAAGGAGCCCCAAGAA A A A A A A G A A A C A C G G G GAGAAGAAAGGAGAAGGA GAAAAAA G G G GACCCAAAAGAGGAGCAGAGACCGGAACCAAAGAAAGAGAA A A G GAGGGGAGAGGAGGGGGAAAGGCAGGGGCCAACCAAAAAA AAAGGGGCACCAAAAAACAGGAAAAAAGGAAGGGGGGAAACA AAAGAGAGAAAAGAGAGGGGGAACCGGAACCAAGBAAGAGAA GAGAGGAAGAGATGGAGGGAGAAAAAGAAGGCCGGGGGGGGA G G G G G G A A G A C A A G G C C C C G G T T A G G A G G G G G A G A C C G G G G A AAAAAAAGGAGCCAAAAAAGGGGCCGGAAACCAGAGGAGGGA A G G G G A A A A A A G G G G G A A A A A A A G G G G G G G G G G G G A A A G G G T A A A A A G G A A A A C C C GAAAA A G G G GAGGAAGAGGGGGA GAA GA GAAGGCCGGGGCCAGGGAAAAAAAAGGGAGGAGGGAAAAAAG A G G G A C A G G G G G A G A G G G G G A A C G GAAAAA A G GAAG G GAAAA A AAAAGGGAAGGACAAGAGGAAGAAGAAAGAGCAGAAAGGGGG GAAAAGGAAGGAGAATACCGGTTAGACCAAGCGGAAGGAAAAA $A C C A A A A G A G G G G G G A G C C A A A A G G A A G G A G A G G G A A C A A A A$ G G G G A G A G G A G A G A G A G G A G G A A G A G G G G G G G G G G G G G G C C G GAAAACCGGGGAAAAAGGGCAGAAGAAAAGGGAACAACAACC C G GAGGGAAGGAAAACCAAGGAAAAGGGAAAGGATAAGAGCT TAAGGAAGGAAAACCACAGAGAAGGAAGGTTAAAAAACCGGA AA GAAAAGGCCGGAAAAACCAACAAACAAAGGGAAGAGGGAA $A G A G A G G G G G G A A G G A A G G A A G G A G A A G G A A C C A A A G G A C A A$ $G C \subset A G G A G G G A A G G A A A G G A G C A A A G G A A A A A A C C A C A A G B A$ AACAGAGACAAGGCCGAACGGGGAAGGAGAACCGAGGGAAGC C G G G GAA $A \operatorname{GAA} A G C A G G A G A A A A A A G G A A G A G G A A A G G G G G G$ GACAACCGGGGGGCCATGGAAAACACGCCGAAAGGAAAAAAA
 G G G A A C A G GAAAAGGGGAGCCCCAAAGCAGAGGAGAAGAGGG G G G GA GAAAAAGGAAGGAAGGTAAAGAGAAACCCC GAAAAAA A A A A C G A A G G A G G G A A C A A A GA $A$ GAGGGAAGGACAAAA GAC C G G GACAACAAAGGCGACCAAGGGGGAGGGAGGAAAAGGGGGGC G G A A A G G G GAAAAGGCCGGGAGGAACCCCAAGAAAAAAAGAA AACACGGAAAAGAACGGGGGGAACAGGACCAAGGAAGCAA GA
 $C G G C C T A A A G G A C G G A G G A A G G G A A A G G G A A G G A A A G A G G G A$ G G G G GAGGAAAAAGGAAGGAAAAAGGAGAGGGGGGAAAAAAG

GAAAAAAAGCAAGAGGAGAGAAGAGAGAAGGAAGGAAGAAGA $A G G G G A A G G G A G G G G G G G G A G A A A G C A G G T T G G G G C C G G G G A$ A GAGAGGGGAAGGATAAAGAAAGAAAGGGAGCCAAAGGAAAC AAAAGAAAAAAAAGAAAGAAGGAAGAGGGAAAGGAAAAGGAA A GAAAGGGGCCGGGGACGGAAGGAAGAAAGGGGCCGGAGGGC $C \subset C G G A A G G C A A G G A A G C A A A A A A A A A A A G A C C G A G G A G G G G$ GAGAAGGGGAGGGGAGGAAAACCGGAAAAGGAGGAAAAAAAG GAACCGGAAAAAAAAAAGACCAGGGAAGGGGAAAGCCGAAGC AGGCCGGAACCAAGGAAGAACAACCGGAAAAGGGAAACCCCA C GAAGAAAACCAAGGGGGGAAGGGAACGGGAGGACAGAAAAG

 G GACCGGGGGAAAGAACAAGGAAGGCAGAGGGGGGAAAAAGAG GAAGGGGGAAACCAACCAAAAAAAGGGCAAGGGGAAGTAACA GAAAAGGGAGGGGAAGGAAGGCAGAGGAAGGAAAAGAAACAA $C G G G G G A G G A G G G A A A A G G A G G G G G A G A G C C A C G G A A C C G G G$ GACGGCCAGACGGGGCCGGAGGGAAAAGGCCGAGGAAGAGAA A A A G G A A A A A GAGGGCAGACCAGAAGGCCAGGAGAGGAGAAA $A G G A A A A A G G G G G G A G G C C G G A A G G A G G A G G A A G G G A A A G G B$ A A G G A G G G GACAAGACCGGAGAGGAAAAACCAAGGGGGGGGA $A G G G G A A G A C G G G A C G G G G A A G G G G G G G G G G A G C C G G G A A A C$ A G GAACAGAAAAAGGCGGGGGAGAAAAAGACAGGAGAAACAA C G G C C G G G G G G G G C C A G A A A A $\mathcal{A} G G G G G G G G A G G G A A G A G G G A$ G G G G G G G G G G G A A G G A A A A G G G A A G G GACAA A A G A TA G A G G A
 G G GA $\operatorname{G} A A A G G A G G A G G A A G A A A G G A A G G A A G G A G A A C A G A A G$ G G GAACCGGAAGGCCCAGAGGGGACGGACGGGGGGAAAAGAA CAGGAAAGGAAACAGGGAAGGCAGAAAAAAAAAAAAAGGGAC AAAGAGGAAGAAGGGGAAACCGAAAGGGGGAAACAGACAAAG AAAAAAGGGGAAGGAAGGGCCAAAAGGAGGAAAAAAAACAGA G G G A A A C G G G GAGCCAAGGAAATGCAAAAAGAGGACCAAGAA A G GAA $\operatorname{A}$ GAAAAAAGGGAAAGGTTAAAAGGGGGAGGGGAAAAC A A A A G G G G A G A G G A GAGAAAGGGGACACCGAAGA GAAA GA G G G G G A G G G A A GAGGGAAAAACCAAGAAAGGAGAGAGAGGACAA A A G G G A A G G A GCC GCGGGAGGAGAAGAAAAGAAAGCCAAA GA C C C C A A CAA A GCAGGGAGGCCCCAGAAGAGGGGAAC GAAAAA A A G G G GAGGAAACAGCCACAAAGAGGAGAGAGGAAGAGGGGG GAAGGGAAAAGAAAAGGACGAAAGGCAAGAAAAAAGGGGCCG GAAAGCACAGGAGAAGGCCCCGGCCGGGAGGAAGGAAAACCC
 ACCGGAAGGCCAAGGGGAAGGAAAAAACCGGAACCCAAAAAA A A A C G G G A A G G G G G G A A A G G G A G A A G G G G G G C C C C A A A A $\mathcal{A} A G$ A GAAGCAAACGAAAAGGGGGGAAGGAAGGGGAACCGAAAAAG G G G G G G G G G C C A A G G G G C C A A T T G G G G G G A A A A A A G G G G G G A A A A $\mathcal{A} G A A A A G G A A G G G G G G A A A A G G G G G G A A G G A A G G G G G G A$
 A G GAA A GAACCCCGGAAGGAAAAGGGGGGGGAAA GAAAAGAG G GACCAAAGGGGACCGGAGAGCAAAGGGAAGGAAGGGCAAAG G G GAGGGGGAGAGGAAAGGAAAACCGAGAGGGAAGCGAAGAG G GAACAACCAAAAGGAGAAAAGGGGAAGAGAAGCCAGGAAAA G G G G G A G A GAGAAAAAAGAAGGAAGAAAAAACCAGAAGAAAG G G GACAGAAGGGGAGAAGGTTAACCAGGGAAGAGGACA G GAGC A G A G A A A A A A A A A G G G G G G A A A A G G G G G G G A C C G G C C G A A A G G G GAGAAAAAAGGCAAAAAAAAGCCAAAAAGGGGGAAAAAAG GAGAAGGAAGGACAAGAGAAGAACAGGAGAGGAGGAAGAGAG
 AAACCGGAAGGCCCCAGAAAAAACCAAAGGAGAGAGG
G G G G A C A A G A G G G G G G G A G G C C C A GAAA A A A C G G A A CA G G A $C G G A G A A A A G A C C G G G G A A G G C C G G A A A A G G A A G G A A A A G G A$

A A A A A A A G G G G GAGGAGGGGGCAAAAAAAAAGGGGGGAAGAA $A C A A G G G G A A G G A G A A G T T G A A A A G G G A C G G A G A G G A A A G G G$ A A GCA $\operatorname{C}$ G G G G GAAACCAAGAGGGGGAAACACGAAGACAA GATA GGGAAGGAGCCGGAAAAAAAGACGGCCCCCCGAGGAGGGAAG G G G G G G GCCAAAAAAGGGGAAGAAAAGGGGGAGCCAGAAAAAA GAAAGGGGAAAGAGGGGAAAGATAGGGGGGGAGAAAAAACAC A G GAA A A A A G GAGCAAAAGGAGGAACAGGGGAACCGAAAAAA G G G GAGAAACCAGAGGGGGGAGGAAAAAAGGAACCAAGAAGA A A A A A G G G GAA $A \operatorname{GA} A \mathrm{GA} A A A A G G A G G G G A C A A G G A G A G A G G A A$ A GAAAAGAAGGGGGAGAAAAGCCGGGGGGAAGGAACCCCGGA A G GAAAAGGAGAAAGGGAAACGAGGGAAGCCGAACAAACAGG GAAAAGGAACCGAGGGGGGGGTTAACGAAAGCAGAGAACGAA GAGGGGGGAGAGGGGAAAAGGAGAAGGGAGGGAAAAAAAAAA
 $G C C C C A G A A G G G G A A A A A G G A G G A A G G G G A A A A G G C A G A C C A$ ACCAGAAACAGAGAGCAGAGGGGAAAAGGGGAGGGGAAAATAA
 GAAAAAGGGAGAAGAAGAGAGAGGACCAGGAGAAGGGAGAGG A G GAGGAAAAAAAGGAACCGAGGAAAAAAGGGGGGAAAAAAG GAGGGGAGGGGCCGGAATTAAAAAAAAGAAGAACCAGCAGAG ACAAAAAGGAAGGCAGAGGGAAAGGACAAAGAAGAGGACGCG G GAAACCGGGGCCAAAAGGAACCCCAAAACCGGCCCCGGGGG G G G A A G G C C A A G G A A G G G G C C A A G G A A G G A A G G G G G G A A G G C C GAGGGGACCAAACCGGGAAAGGGAGAAGCCGGAGAGGAAAAG $G C \subset G G A A A A G G A G A A G A G G C C G G A A A A C C A A A G G G G G G G G G A$ A GCCAAGGACCACGACCGGGAAAAAGGGGGGAAGGGGAAAGA G GA A A A A GAGGAGGGAAGGCCGAAAAAGGGGAAAAGGGAAAG GAAAAGGGAGAGACCGAGAGAGCGGAAGAGAAAGGAAGAAGAC
 GAGGGAGGAGGGGGAACAGAGAGGGAGCAAACCAAGGAAAAG A A G A A A G G G G G G G C A G G A A A A A A G G G A GAAAA A G G G G G A A G T TAAGGCCAAAAGGGGGGAAAAAAAGCCAGGGCCGAAAAAAGG A A GAGGAAAAAGGAAAAAGAGAAGAAGAAGGGAGGAAGAAAA A A A A C C C G A G G G G G G G A A A A C C C G GAACC GAGGTTGGAAAAA AAACCAAGAAGAACAAACAGGAAAAAGGAGGGGAAAAAGAA G G G GACAGGGCCCCGAAAAAAGAAGGACAGGAGGAAGAAAGAA GAGGGAGAGGGCCCCAAGAAAGGCAGGGGAAAAAAGGAGGGG
 A GAGAGAGAAAGAGGAAAAAACCGAGGGAGAAGAAGGGGGGA CAACCAAACAGAAAAAAGGGGGGCCAGGGGAAGAGEAGAAGA
 A A G A G G G A A C C A A G A G A A A A A A GA G G G C C A A C G G G G G G G G G G
 A G G G G A A G A C C C C A A G A A A A GAGAACCGACCGGA G GA G G G G G

 GAGGGAAGGAAGAGGGGACGAAAGGAAGGGGGGGGGGCCGGC CAAGGAAGGAAGGAAGGGGAAGGGGAGCAAAAAAAGGAAAAG GAGACGAGGGGAAAAGGAGGAAGAGCCAGGGCCGAAAAAAGG A G G G G A A C C G A G G A A G A C A G GA $A \operatorname{GGGGAGAGAAG}$
$113102000-9 A A A G G G A C G G A G G G G G A A G G G G A A A A G A A G G G C$ A A A A G A A CCCCCCAAGGGGGGCCGGAAGGAAGGCCAAAAGAA $A C C A A A A G G G G A A A A G G A A C C G G G G G A A G A C G G G G C C G G G G G$ A GGCCAAGGAAGGGGAAGGAAGGAGAGACGGAGAAGGGAGGA $A C C A A G A A A G G A A G G C C A G A G C C G G G G A A A A G A A A G G G G G G A$ $A C C A A C C G G A C C A G G A A A A A G G G A A A A G G G G G G C C A G C C G G A$
 A G G G A G A A G GACCAGAAAAAAGGAACCGGAGGGAAGAAAAGA $A G A A A G A A A G G G G G A G G A G G A G G A A G G A A A G C C A A G G G G G G A$

A A A A A A G GACCAAAAAAGAAAAGGAGGAGACAACCAGGAAAG GAAGGAACCGGAAACCCGGAGAAGGGGAAGGAAAAGGTXGAA GAAAGGGAAGGAACCGAGGAAAAAACAATCCAGGGCCGGGGA A GAAGCAAGGAGGAAAACAAAAAGAAAGGAGAAGAACAGAAG A G GAA A GA A G GAAAAGGCAGAGGGGCCGGAGGGAAAACAAGAA A GAGAACGAACAGACGGCAGGAAAAAAGGAAAAAAGGGGGGG G G G A A G A G G G A A A C C G A GAGGAGGAAGCCAGGAAGAAAAGAA GGGAGGACAAGAAGAGGAAAAGGCCCAGGAAAAGAAGGAAAG A G A A $\mathcal{A} G G G G A A C C G C G G A G G G G G G G A A G G A A G G C C A G A A G A A$ AAAGAGGCAGGAAGGAGCCGAGGGAAGGGCCGGTTGGGAAAG G G GAAAAACAAAAAAAAAAGAAGGAAATAAACCAAAAGGGGG $G C C A A G A A G G A G A A C C C G A A G A A G G A A C C G G G G A A G G G G C C A$ GACAAGGCCGGAACAAAGGAAAAGGAAACGGAGAACAAAAAC
 CAAGGAAAAAAGGAGCCCAAAGGAACCGAAAAACCGGGAGGA A GCGAAAAAAGAGAAGGGGGGCCAGGGAAGGAAGGAAAAAAA CAA $A \operatorname{GT} A A A A T C A A A A G G G G G C A A A A C G A G A A A G A A C A A G A A$ GAAAGGAGGAAGACCGGGAAAGGAGACGGAAAACCAAGGGGA GAAGAAGAGGAACGAAAAAAACCGGACAGAGGAAGAAGGGGG AAAGGGGGGAAAAAGAACCAGAAACAAGGAGGGGGAAGAGGA AAACCCCAAAAAACAAGGGAAAAAGGAACAAAACCGGGGGGG GAAAAAAGGAAAAACGAAGAAGAGGGAAAAGAAGGAGGAAGC C G G G G A A G GAGCC GAGAAAAAGAAGGGGGGAAAGGCCAAAAA GAAGAGAAAAAAAAGGGGATAACGGGGGGCCAAGGAAAAAAA A G GAAAAAAAATTAGAGAAGGGGGGAATTGGCCAAGGGAGAC

 GAACGAGACAGCCAAGGGGCCAAAGCAAGAAGGCCGGCAAAA AAAACACGGAAGAAAAGAAAAAAAACCAAAAGGGGGGAAAAG GAGAGGGTTAAGGGGGGGAAAGGAAGGAAAAGGAAAAAAAAA A G G A A A A G G G A A G A A G G G G A A G G A G A G A G C A A A G G A A G G G G G GAGGGGGAAGGAAAAAAGGAAAAGAAGAACCGGGCAGGAGAA G G G G A G G G G A G G G G GAACC G GAGAAAAAAGAGACAGAGACCA $C G G G A A G G G A G C C G G A G C C G A A A A A A G G G A G G G A G A A G A A G C$ A A GCCCAAGAAGGAACCAAGGGGGGGGCCGAAGGGGGGAAAA A A A A C A G A G A G A G A A G GAG GAAACCAAAGAGACCCGAGAAA G AAAAAAGATAAGAGGAACCGGGGAACCAAAAAAGGCAAAAAA A G G G G G G G G G G G G A A A A G G G GAAAAAACAGGGGAAA GACAA G G GAGGGGGGGAAGAAAAGGGAAAAAAGGCCGACCGACAAACAA A A A G A A A A A G GCC GAGAGAAGAGGAGGGACAAAACAAAAA GA A G G A A A A G G G G G G G G C C G G G G G G G G G G G A G G A A G G C C C C G G A A G G A A A A G G A A C C G G A A G G A A A C G GAGGGAAGAACAGGAA GA GGGCAAGCCAAAGAAAAAAGAAAAAGAAAAAGGAAAACCGGA A G GAGAAAACAGACCGACCGGAGAGGCCCAAAAGGCCAAGAG GAAGGAAAAAACCGGCCGAAAAAAAAAAAAAGGAACCAAAAG G G A G G A A A G G A A A G G G A GACCAAGGGGAAGGAAAAGGAACAG G G G A A C C A A A A C C A A G GAACAAAGACCACAGCCBAGGGGGGA A G G A A A A A A A A A A G GCAA G G G C C G GAAA G GAAA A A G GAA G G G GAAGGGGCCAACCCCGGCAGGAGGAAAGGGAAGGAGAAAAAG G G G A A G A A A A A A G A A G G A A GA G C G GAAA A A G GA GA G G C C G G G A G GAACCGGAAAACAGAAGAGAGGAAGGGAGGGCCGGGAACA GAAAGTAGGGGAAGAAAAAAGAGACGAAGAAGAAABCCCGGG GACGAAGGGGGGAAAAAAAACAGAGGAACAGGGAAGGGGGGG GAAAAAAGGAAGGAAGGCCATAGTTAAAGGAGAGAGAAACCA G GAA A A A G G G G G G CA $A \operatorname{A} A \mathrm{~A} A A G A G A G G A A C A A G G A A A A A A A G G$ GAAAACCAGGAGGGAGGAGACCCGGAGAGAGCCGGAGAGCAA GAAAAAGGATTAAAAAGCAAAAGGGGGGGAAGGGGGAAGGGG G GAGGAAGGACAAAAAAAAGGGGGGAAACAGGGAAAAGGAAA $A G G C A T A G A G G G A G A G G C C G G A A G A A A G G G A A A G G A A G A A C A$

A G GAA A A G G G G G G A A G GAA $A \operatorname{AGAGGAGGAACCAAAGAAGGGGG}$ $G C \subset A A C A G G A A A G A G C A A A G A C C G A A A G A A G G A A G C C G G G G G$ G G G G G A A A A A A A A A A A A A A A A A A C C GAAAGGGGA G GA GAA G C A G G GA $\operatorname{A} G A A A A A A G A A G A G G A A C A G G G C A G G G A G G C C C C G G G$ GCGGAGAAGAAGAGGGGGGAAGAGGCCAAAAAAAAGGGAAAG GAACAGGAAGGAAGGAGAGCCAGAGAGAAAGCCGACCAAGEG G G A T T G G G GAA $A \operatorname{G} G \mathrm{G} A C G A A A A A G A G G G G G A A G G B A G G G G G G$ GAGAAAAAGAAGGGAAGAAAGGAGGAAAACAGAGGGAGAAGA
 AAGAGAGAAGGGGCCGGGGGAGGAAAAGGAACCAACAAAGGG

 G G GAA $A \operatorname{GGGG} \operatorname{G} A \mathrm{~A} A A A A A C C A A A C A G G G A A A A A A G G G G A G A C A$ A GAGAGAAGAGAAGAAAAAGGAGGAAAAAAGAAAAAAGAAAA AAAGGGGAGGAGGAGAAAAGGAAAAGGAAGGGGGGGGAAGAA A A GAGAAGGGGGGGGAAACCAGGGAGGGAAAAAGGAAGGAGA T GAA $A \subset C A A G G A T G A G G A C C G T A G G G G A A G G G A G A A A G G G G G$ G G G G A G G A GAGGGAAGACAGGACAAAAAAAGGAAAGAAAAAA GTTAAAACCGGGGCATTGGAAGGCCGGGGAAGGGGGCAGCAG A G G A G A A A A A A A A G G A A C C G G G A A A G G A A A A A A A A G G A A A A C CAAACGGGAAAGAGGGAAAAGAAAGAAGGAAAGTTGGGGAGA A A A GAGGAAGGAGGGGAGAAAAAAAAAGGAAGGAAGAAAAAA CAACCAGACAAGGGAGGGGCAGAAAGGACGGACGGCAGAAAG GAAGGAGGAGGAGGAGGTTCCAAGGTAAAGACAGGGAAAA GA GA $\operatorname{G} A \mathrm{~A}$ GAAAAAAGGAGGACCCAAAGGGCXAAGGTTCAGGGGA A GAACGGGGGGGGGGAGGGGGCACAGGAGGGAGGGCAAAAGA A A GAGAAGAGAGACAAGACGAGGGAAAGGAGAGAAAAAAAGAC C CAACAAGGAGGGACCCGGAGGACACACAGAAGGGAAGAAGB AAACCAAGGAGGGAAGGTTCCGAGAAGACACCAAGCAAGACG GAGGGACCCAACCGGAAAGAAAGGAAGCACAAGGAAGAGCGA GAAAAGGAAGGAACCGGGAGGCAGGAAAAGAGAGGGGGAAAA A G GAA A G G GAAAAAAGAAGAACCGGAAGGGGGGGAGAAAAAC $C G G C C A A G G C A A A G G G G G G C C G G G G T T G A G G G G A A A G G A G A G$ G G G A A G G A A A A A A A A A A A GAGGAGGAGAGAAAGACAAAAAAA $A A C C A G A A G G G G G A C A G G G G G A A C C A G G A G G A G G G A G A G G B A$ A G G A G GA G G A C A G A A A A G G A A GAA A A C G G CC C GAAAA A A A A A C C G G TAA A A A G G G G GAGAGGGAAACCGGAAAACCAAGAAAGGG GAACCAAAGGAAAGGAAGGGGGGAAGGCCAAAAAAGGCAAAA
 A A A G G GA G G G GCC G GACAGCCAAGAGAAACCGAGACAGAGAC CACGGAAGGCAGGCAGGGGAAACAGGGAGCAACGGGAAGGGG GA $\operatorname{G} G A A \operatorname{A} A G A G A G G G A A C C G G G G G A A A G G A A A A A A G G G A A A A$ A A A A A A GAAAGGAAAGGAGGGGGCCTTAGAGGAGAGGAGAGA G GACCAAAAAATACAGAGGAGAACCCCCCCCGAAAGAACGGG GAAACAAGGGGGAAAAAGGAGGGCGAGAGCCAGGGGGGAAAA C C CA G A A A A A ACCAAAAGGAAAAAAAAGGAAACGAAAGAGGG A T A G G G G A A G G A GAGGAAGAGGGGGAGGAACAGAACAAAGGG
 GAGAACCGGGGCAAGGGGGAGAGAAGGAAGGGGGGGGGAAAG GGGCCAAAAAAAAAAAAAAAAAACCGGAAAAAAAAGG
A A A A A A G G G G G G G G G G A A A A A A A A A A GGGGCCGGAAAAAA $\mathcal{A}$ GACCAAAAAGGACAGGGGGAAAGGGGGGAAGACCAACCBAGC A A G A C G G G G G G A G G G G G A A A A G G C C G G A A G G A G A G G A G A A G G GAGAGAAGAGGCCGGGACAGAAAGGACAAAAGGAAAACCGGG G G G G G C G G G G G G G G G A A G G G GCC G G C C G G C C C C G G G G G G C C A A G G A A G G A A A A G G A A GAGAGGAAGGAAAAAA GACAA GAC GA G
 G G GCCAAAGGGAACCATCAGATTAGGAATAAGAGGGAAAAAG $G G A G G G G A G G A G G A G A A G G G G A A A G G A C A A G A G G G C C G G G G G$

G GAAAGGGGAGCGGCCCGGAAGGAAAAGGAAGGGGGACAAAA GAAGGAGAAACGAGGAAGGCCGGAGAAAAAGAAAAGGCAAAA $G G A G A A A A A A A G G A G G G G A C A G G A A A A A A G G G G G G G A A G C A A$ GAAACAAGGGGAGGAGAGAGGAGAGGACAGGGGAGAGAAAAA GAAAAAAAGAGGAGGACGGCCAGGGACGGAGCCAGAGGAGGA A A G GAGGAAGGAGAGCCAAAGAGGGGGAAAGGAAGAAAAGGG AAAGGCCTTACACGAAAAGAAGGGGAAACAAAAGBATAAGEG GAAAGAGAAGGAAGGGGGGGAAGAAGGCAGAGGAGGACAGGA A A A A A A A G GCAAGGAAGGGCCGGGACCGAGGGAAAAAGACAA AGACCCCAAGAAAAAAAAAAAGGAAGGGGAAAGAGAGGGAGA A G GAGGGAGAGCCGGGGGGGAAGAGCGACGGAAAAAAGAAAA A A A A G A A G A GAGGGGCAAAAAGGAAAAAGGAAAAAGGAAA GA G GAGGAAAGAAAAAAGAAGGGGCAAAGGAGAAGGAAAAAGAA GAAAGGGGGGAAAAAAAGAAGGGAAGGAACAGGGGAAAACAG G G GAACCGGGGTTAAGGAAGGGAAAGGGGGGAAGGAGGAAAG GAGAGAAAGGGACGACCAAAGGAACCACAAGAACCCCAACAA
 GAAGGGGCCGGAGAAAAGGAGAAGGAGCGGAAAACAGGAGAG A G G GACAAGAAGGGAAAGGGGAAGAGGAAAAGGGGAAAAAAC CAAAACCAAAAGGGGCCAAACAAGGAAGGAGGGAGGGGAAGG GCCAA $C$ G A A C C A A G A G G G G A G G G G G G G A A G G T A G G G A G G G G G G G GAAAGCCAAGGCCCCGGAGAGGGAAAAGGAAAAGAGACAC C G A A A A A A GA $\operatorname{A} C A G A G A G G G G G G A G A G C A G G G A A A A A A A G G C$ C CA $A G G G G G A A A G G A G A A G G G G A A G G G G C C A G A A G A G G A G A G A$ GAAGGGGAACCTTGGCCCCGGAACCAAAAGAAAAGAAAATTG G G G A A G G G G A A G G A A G A A G G G A G G G A A A A G G G G C C G G G G G G G GAAAAACAGAGAGAGGGGAAGGAGGGGAAGGAAAAGAAAGGG G G G G G G G G GA $\mathrm{G} G \mathrm{G} G \mathrm{G}$ GAGTTAAAGGAGGGGAAGGAAAACAAAA AAAGAGGAAAGAAAAGAGAAGACGCGCGGGAAAGACAGAAAG GAAGGAGGATTGGAGGGCCGGAAGGAACCAAAAAACCGAGAG A G G G A G A C A A A G G A A A A C A G G G G G G G A A A A A A A G G GAA G G C G AAAGGGGCCGAACAAAAAGCCGAGGGGACAAGGAAAAAAGGC CAAGGGAGGAAAGCCAAAAGAAGAGCAACCCGGCCCCACGGC CAA $A \operatorname{G} A A A A G G T T G A G G G G C C G G A A G G G G A A A A G A A A A G A G G$ $G C C A A A A G G A A G G G G A G A T A G A A A A G G C X A A A G A G A A G A G G G$ A G A G G G A G G A A G A A A G G A A A A G G G G C C G G G G A A A A A A A G A G A ACAGAAAGAAGAGGGGAGAACACAACAGGGGAAGAAAAAGGG GAAGGAAAAGAAACAAGGAAAAAAAAGGAGAAAAAAAGAAAA A A A G G G A A A G A A A A G A G G G G G G A G G A A G G A C A A G G G G G G A A $G$ $G C C A G A A G G A A C C C C G G G G A A A G G A A A C A A A G G A G C C G A G G A$ GAGAGTTGGCCGGAGGAAGAAGGGAGAAAGGAGAAAAGAAAA A A A G GCCCCGGAAGGGGCCAGGGAAACGGAAAAGGGAAAAAA GAAGGACAAGGAAAAGGAAAAAGGAAAAAAAGGCAGGGAAAA G GACCGGGGGGAGCCAAGGAGGGAAAGACGAGGACGAAAAAAA A G G A A C C A A G G G G C C G G G G G G A G G A G G G G A G G A A G A A G A A G G GACGGGAAGGGGGAAAAGGAAGGAAAAAAAGAGAAGAAAAAA GAAAAGGGGAGGAAGGGGGAAGGCCGGAGAAGGGAGGAAGAG G G G G G G G A G G A G G A A A G C C G G G G A A G G G G GAAA A G G G C C A A C A G GCCGGGAAGAAAAGGAAAAGGAGTTAAAGACGAGAGAAAA A G GCCAAAGGACCAAGGAAAAAGGGGGCCGGGGCCTTAAGGG
 TGGGGAAAGAGAAGGAACCGGAAAACCAAAAAGGAAGGAAAA G G G C C A T G G G A G G G G A A G G G G A A G G A G G G C A A A G G A A G G G G C $C G G A A C G G G G G G A A A A A A A A G G A C C A A A A G G G A G G G A A A A G A$ $C \subset A A C G G A G A G A G A A G G A G C A G G A G G G G A G G A A A G G G G G G G A$ AGGCCAAGACCAAAAAAGAGGAAGGGGAAAACCGGAAAAGGA A A AC GCAGAAAAAAGAGGGGGGGTAAGAAAAAGAACCAAGAA A A A C G G G T A G G A G A A A G A A G G A A A A G G C CAAA A G G G GAAAA A CAGAGGAAAGACACATTCCGGGGAAAGTTCACCCCAAGAGAA

C GAAAGGAGGGGGAAAAGGAACAGGAAAAAGGGGGGGCAGGA A G G A A A A A ACCGGAAAAAGAAGGAAAAAAAGAAAGAAAAGGG G G G G G G G A A A G G G A G G A A G CAAAAAA A A A A G G G GAA A G G GAA A G GAGAGGGGGGGGGGAAGGGAAGAGAGAGAAGGGACAGAAGA GA $A$ A A A A $\operatorname{A} A A G A G G G G G G G G G G A G A A A G G A A G G G G G G G A A G A$ T G G G A A T G GA G G G A A G G A A G A A A G A A A G GACAAAAAGGGCAA AAAAGCACCAGCAGAATGAAAAATTTAACAAAAAAGGAGGAG G G G G G A A A A A G A A C G G GAACCGGGGCCGGAACCGGAAAAGGA G G G A A A A A A GAGGGACCAAAAGGCCAAGAAACCAAAGGAAAA AGGGACCGGCAAACAGGGGCAAAGAAAAAGGGGAGGGAGCCC GAGGGGGGGGGAGGACCAAGGGGAAGGGGAACCAAGGGAAAG G G G A A G G G G G A A G A A A G GAGGAACCGAAGAGCAAAGGTXCCG $G C C G A C C G G A A G G A A A A G G G G A A G G G G A A A A C C A A C C G G G G A$ GA $A$ A A $\mathcal{A} G G G G G A G A A G A G G A A A A G A G G A A G G G G A A A A A A T T G$ $G C C A A C C A A G G A A A A A A G G A A G G G A A A A G A A A A G G A A A A G G G$ A A GAC $\mathrm{A} A \mathrm{~A}$ A A A GGGGGGGCCAAGAAGGCCAGGGGGCACAGGA G G GAACC $A \operatorname{CA} A A G G G A A A A A G G G G G A A A G G G A G G G G G A G G G G G$ G G G G G G G G G GAGGAAAAAGAAGGAGCAAGACAAGGGGCCGGT TAGGGGGACGGGGAACCAACCAAAAAGAAAACCCCAAAGTAT TAAAAAAGGCAGACAAGGAAGGGAGAAAAGAGAAAGGGGGGG GAAAAAAGGGAAGGAAAAACCGGCAGGAAAGAAAGAAGGAAA
 A G G G GCCAAGGTTGGGAGAAAGACCAGAGAGGGCAGGAAAAC
 A G GAAAAAAGGAACCAAAAAGGGGGAAAAAAAGA GAAAGA GA AAGGAAGAACCGGAAAAAAGAGAACCCACGGCATTGGGAAGA A GAAGCAGAAGCAGGGGAACCAGAGGGAGAGGGCAAGAGGGA GAGCACAGGAAGGAGAGGAAGGCCAAGGAGAGGAGGAAACAA A GAAGAGCCAAGAAAAACCGGAACCGGGGCCAGCCAAGAAAA GAGCCGGGGGGAAAGCCGAAGCCGGGGGGGGGGAGAAGAAAG GC G A A G G G G GACGGGACAGAAAACCGGTAGACCAGCCGGGAG AGGAAGAAAAGGGAGAGAGACAGAGCAAAGAAAGAAAAAGGG GCAAAGAAGCCGGAGGAAGAAAAGGGGAAGGCCGGAGCACAA A GAA $A C C A A A A G A G G A C A A A G C C A G G A C G G G A G A G A G G A G G G$ A G G G G A GAGGCAGAGAAAAAAAAGAGACCAAAAGGGGCCGAA G GAGGAAAAATGAAAAACCGGAAAAAAGGGGGGCCAAAAGAA AAAAAAACCCAGACAAAAGGAAGGAAAGGAACCCCGAAGGAA AGGCCAAAGGACAACAGAAGGCCGGAAAAAAGGCCAAAAGBA CAGAAAAAAAGCCGGCCAAAAGGCCGGAAAGGGAAGGGGGGA
 $G G G A C A G G G C G A G A G G A A G A C A G A G A A A G G A G C G A C C C A C C B$ A G A A A A A G G A G G G A G C C G G C A A A C A G GAA A G G G G G T T G A A A A $A C C C C G G C C G G A A A A G A C C A A G A G G A A A A A G G A A A A A A A G G A$ A A G A G T T A A G A A A G G G A A A G G G G A A GAGGGGAA G G C C A G G A G A $G G G G G G G G G A C C G G A A A C G G C C G G T A G G G A G G C C A G A A G A A$ ACCGGAAAAAGGGAGGGAGGAAAGGCCGGAGAAGGAAAAAAA A A A A A G G G ATTCAAAAAAAGAAGGGAGAAAAACATGAAACAG GAAGAAAAAAAGGGGAGACCCGGTTAGAAAAAAAAGGGGGCA GAGGAGAGGGGCGCCGGAAGGGGGGGGGAAAGGAAACAAGAA T G A G A A G A A A A A G G A A G A A A A A GGGAAAGAAATGGGA
A A A A G G G A A A GCGGAGAAGAGGAGGGGGAACCGGGGGAGCG AAGCCGAAGCCAACCGAAGGGCCAGAGAAAAAAAAGGGAAAG G G G A A G G G A G A C C A G A G G A GAGGAAAGAAAAAAAGAAGAAAG G G GAAAAAGAGAAAAGGACGAGGCCAAAAGGACGGAAAATTG GAGCGAAGGCAAAAAACGACACCAAGGGGGACGAGAACAAA T TAAAAACAGAAGGAAAAGGAACCAAAAGAGGAGAGGBAACAA G G G G A A A G G A A G A G G C A G G G A A A A A $\mathcal{A} G G G G G G A A A G A G G G G G$ $A G G C C A A G G G G A G A A C A C C G G G G A C A G G A A G A G G A G G G A A G G$ AGACAGGAAAAGGAAAGCAAGGAGGACAGAGAGTTAAGAAAG

GAGGGCGAAGGGAAAAAAAGGAAAAGGGGAGGGAAGAAAGGG
 GAAGGAAAAAGGGCCAAGGAGAAAAGAACAGAAAAGGAGAAG GAAGGGGAAAGGGCCGGGGCCGGAAGGGAAAAAAAAGAAAGAA G G G GA $\operatorname{G}$ GAAAAGGGGGCAGGGAAGGGGAAGGGGAGAAGACCC CAA $A \operatorname{GGGA} A G G G G C C A A G G T A G A A G A G G A T A G G T T C C G G A C G$ GAGGGAAGGACGGAAGGGGGAAGGGAAAAAGAGGAAAGAABA CAGGAAGGGAAGAGAGGGAGAGAAGGGACAAAAAATTAGGAA A A A G G A A A G A A G G A G G A A A A G A A G G G G G G C G A G A C T T G A G G G G G G G GAGAAGGGAGACCGGAAGGCCGGAACCAGGAGAGAAAG GAAAAAGACAAAACCGAAAAAAAGGAAATCCAAGGAACAAAC C $G G G G A A A G A C G G G A G G G G C C A A G G G G A G A G A A A A A A A A G A C$

 ACCAAGGAAGGGGGGAAGGAAGGAAGGAAGGGGGGAAAAGAA A G G G G A A G G G G G GAAAACAAAGGGGAAGGGGAACC G GACGGG GAAGGGGAAAACCAACCAAAAGAGGCCGGGGGGGGCACAAAG GCCAAGGCCAAAAGGAAAAAGCCAAAAGGAAAACCGGGGGGG AAAGAAGAGGGAAGGGAAAAGAAAGGGGAAAGGGGGGGAAGAG G GAGGAAGGCCGACCGGGGAGGGAGAAACGAAGAGAAGAGGG CAGAGAAGGGGAACAAGGAGAAAAGAGGGAAAACCCCCCGGG A A A GAAAA $A \operatorname{A} G \mathrm{G}$ GAGGAGAGGAGGCAAGAAAAGGGGGACCGGG GACAGAGGGGGGGAAAGGAAAAGGAGAGGGGCAGAGAGGGGG G G GCCAAGGAAGGGGAGGAGAGGAGAAGAAGGAGAGAAAAAA AAAGGGGGAAAAAGAGAAAACAAGGGGGGGGAGAGAAAAAAC
 GCCGAGAGAGAGAAGCCAGGAAAGGAGACGGAGGAAAGAAAG G GAGACCAAGGGGAAAAGAGGGGACAAGAGGACGAGAAAAAG A G A A A A A G GCCAGAGGGGGAGAGAGGGGGCCGGAAAGAGAAG GAAGGAAGGGGAAAGGGGGCCGAAAGAGAAAAAGGAAAACCG GAAGGCAAGAAGGCCGACCACGGAAAAGGAAGGCCGAGAACA AA $A$ A A G GCCAGCCAGGGGGGGGGAAAGAAAACCGGGAGAAAG ACCGGGGAAGGGAGAAAGGTTGGAAAAGGAAGAAGCCGAGAA AAAAGGGCCCCAGGAAAAGAAAGAGGGCAAGGACCGAAAAAA $G G A A G A G A G G A G A G G G A G G A G A A G G A A A G C A G G G G G B A G C A G$ GA GAAAA $A$ A $A G A A A A A G A G A G A G G A A G G A C A G G G C G G G A A B A$ GAGAGGGAAGGGGAAGGGGAGGGGGAAGGCCGGTTGAAAACA A A A A A GAA A GAAAGGGAAGAAAGAAGAGGGGAAAACCAAAAG GAGGGGGGGAACAAAAGAAGGGGAAGGGGGGAAAACCAGCCG CAAAAAAAGGGAAGGAAAGAGGGGAAAAAAAAGGGGGGACAA G GAAAGGGGGAGAGGCCAAAAGGAAGAGAAACAGACAGACAA G G A A G A A G G A G G G G G G G G G A A A A G G G G G G C C G G G G G G G G C C A $A C C C C A A G G A A G G A A A A G G A A A A G G A A C C A A G G C C A A G G A A G$ GCCGGGGAAAAGGGGGGAAAAGGGGGGAAAAGGAAAAAAGEC CAAAACCGGCCGGGGCCGGCCGGGGGGAAGGGGAAAAGGGGG GAAGGAACCAAAAGGAAAAAACCAAGGAAAAGGAAAAGGGGC CAA $A \operatorname{G} A A A A A A A A A G G A A G G G G G G A C A C G G A A G A A G G G G A A A C$ G G G G GCCA $C$ G $\operatorname{CA} A A A A A G G G A G G A G G A A C C G G A A G G A G G G G G G$ A G G G G A A A A G G A A A A G G GAAA $A \operatorname{A} A A A G G C A G G A A G A G G A G G G A$
 A G G G G GACCGGACCCGGGAAGAGAGGGGAGACCATAAGGCCA
 G G A A A G G A G G A A G A A A A A A G G A A G G G G G G G G G G G G G A A G A G G GAATAAGGGAGAAAACCAAGGAGTACCGAAAAAAAAAAGAAA AAAAAAACAGGTAGGAAAGAGAAACGAGAAAGGCAAGAAAAG A G G G G A G A A G G GA $A \operatorname{G}$ GAAAAAAAAAGCGAAAGAGGAGAAAAAG A A GAGATAGGAGAAAAGAACAAGAGAGGAATAACCAACCGGC C GAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A \mathrm{~A} G \mathrm{G} G A C A A A A G A G G A G G A A A G G G A C G A A$ AACAGGAAGGGAAGGAAGAAGAAGAGGGGGGAGGGAGAAAAG

GAACAAAAACCGGGGCCAGAAAACCGAAAAGAACCGGGGCCA
 AA GACAGAAGGAGGAGCGGGGAAAAAGAAGAAAGGGAAAGGG GAGAAGGGAGGAGGAGAGAAAAAGAAAACACGAGGGGGGGGA $A G G G G G A G G G G A G A C G G G A A A G G G G G G A A A A G G A A C C G A G G G$ G G G G G A A A A G G G GACAAAAAAAAAAAAAAAAGGAAAAGAGAA A A A A A A A A A G G A A A GAGGGAAAGAAAGGAAAGAAAAC GAGAA A G GAAAAAGGGAAGGGAGGGGGGAAGGGGGAGAAAAGGAAAA A A A G G G GAGCCAGAGGGGAGACAAAGGAAGGGGAAGGCAAA G GAGGAGAGGGGGGGGGGAGGAGAATGAGGACGAGGGGGGGGG GAACCAAAAGGAAGCAGGGACGGCCGAAGAGAGGGGAAAGAA A A G G G A C A A CACC G GAAAGGGAAGGAAAAGAAACC GAA G GA A A G GAAAATGGAAGGGAAGAAGGAAGGAGGAGGGGGGACAAAAA GAACAGGAGGGGGGAGGGGGGGGGGAGAAAGAGCCBAAGGGC C G G A A A GA $A$ A $\operatorname{A} A A A G G A A G G G G G A G G G G G A G A A A A G A A A G G A$ A GAAGAGGAAGGGGGGGAGAGATAAGGGAGACCAAGAAAGGG G GAGGGGAAAGAAAGCAGACAAGGAAAGGAAAGAAGGAACAT TGAATGGCAAGAAAACAAGGAAAGAAAAGGGGGGGGGAGGAG A A A A G A A A A A A G G GAAAGGAAAGCAGGGGCCGGAAACGAAGT TCAGGGGCCAACCCCGACCAAGGGGAAAAAAGGCCGAAAAAA A G GAAGGCAGGGGAAGGCCAAAAACGGAAAATTAGAAGAAGG G G GCCAAAACGGAAGCACAGGGGGATTAAACGAACGGGACAA G G A A A G G G GAGCCGGAGCAAGGAAGCCGGGGGGAACCAAGAC C G G G G A A A A C C G G A A A A G G G G G G G G A A G G A A A A T T G G G G G G A A G G G A G G G G G G A A G A G A A G G A A A A GAAAAAAGGGCCCCAACAA A GAA $A$ A $\operatorname{A} A A G G A A A G G A A A A A G A G A A A A A A G G A A C G G G A G A G$ $C \subset C A A C C A G G G A A A A A A A A C A A G A A A A C C G G G G A G A A G A A G C$ C G G A C G G C A A A A C G G G G G G A A A A G G G A A A G A G G G G A A A A G G A GAAGGGAGAGGAAAGGGAAAAACGGCGGGGACCAAGAAGACG
 GCAGGGGAAGAGAAAGGCCAGAAAGAAGGAAGGGGGGAAAAC $C G C C A C C G G G A G G G G G G G G A A A G A G G G G G A C A A A A G G A A A A G$
 GAACCGGAAGGGGAAAAGGAACAGGAAAAGGAGGGAGCAGAA GAAGGAAGAAAAAGAAAGGGGGGAGGAAGAAACAAGGCAGGG GAAAAAAGGCCGGGAAGAAAAGAACAAGGGGAAAAAAAAGGG GTTAGAAAACAAACCACAATAACGAGAGGAGGAGACAGGGGG $A C C A A A G G G A A G G G A G A T T A C C C A A A A G G G G G G G A G G G G A G G$ GCCGGAACCAAAACCGGGGGACCAAGGAAGGAAGGGGGAABA $A C \subset A A A A A A A A G G A A A A A A A G G G A G A G A G G A G A G G G A G A A G A$ A A A A A A A GACCGAGGAAGGGGGGGAGACAGGGGGGAAAAAAA A A A A A C C A A G G A A A A C C A A G G G G C C G G G G C C A A G G A A A A G G A ACCAAGGGGAAGGCCAAAAAAAAAAAAAAAAGGGGGGAACAA A A A A A C C A A G G G G A A G G G G A C G G G G G G A G A A A A A T A G G A G A G GAAGAAGAAGGGGGGGAAAAGAACCGAAAGGGGAAGGCCGAG
 G G G G A A A G G G A A A A A A C C C A A A A C C A A A G G G G G G G G G G G G G A GCAGGGGGGAAGAGAAAAGAAGAGAACGGCAAGCGGAGGGGA AGGAACCAAAAGGGGCAAAGGCCAAAACCAGCCCCGAAAAAG GAAAAAGTAACGGATACGGACAAGGGGGGAAAAGGGG
GAGAAGAGAAGAAACCGGAGGGGGAAGGGGAAAGGGGGAAA GAAGGAAAAAAAACGGGGAGAGGAAAAGGAAAAGGAAGAAAA G G A G A G G A A A A G G G A A A G A GAGAAGAGGGGACCGAA GAAAA G GAGCAAAAAAAGGAAGGGGGGGGCCCAGGAAGAAGGAACAAA

 GAATTGGAAGGGGAAGAAAGGGGGAAGAAAAAGACBAABACB A G GAGCCAAGGAACCGGAGAAAAAGAAAGACCCAAGGGAAAA AAACCAAAAGGAAGGGGAGGGGGGGAAGGGGAAAGGGCCGGA

A G GCAA $A$ A A $\mathcal{A} G G A G G G G G A G G G G C A G G A A A A C C C C G G A A G G A$ A A G G A G G A G G G A G A G G G G A A A A A G G A A A G G G G G G A A G A A G G C G G G GAGGCAAAGAGAGGAAGGAAGAAAAAGGGAAAGGCAAAA GAA A AAAACAGAAAGCAAGAAAACCGGAGAGAGAGACGGGGG $G C C A G A A G G G A C A A A A A A G G G A A A A G G A G G A A A G A G A A A A A G$
 C G G G G G G A A A GAGAGAGCAAGCCAGAAAACCAAGAGAAGAAA AAAAAAGAAGGAAAGCCGGAAAAGGAGGGAGGGAAAGGAAAA GAGCCACAGAAAAGGAAGGGAGGAGACAAGGAGACGAAAGGA G G GAGAGAAGAAAGGGGAGGAAGCCAGGGGGAAGGGGGAAAA GAAGGAAGGGAACAGAATTAAGAGGGGGGCCGGAAGGAAGAA G G G G G A A A A A CAC GAA G GAAGGAAGAGAGAGGAAGCCAAGGG GACCCGGAAGGACGGAAAGGGCCGGAGAAAAGGGGGAGACCC CAGGGAGAGACAACCAGCAAAGGGGAACCAGAGGGAGGGGGG GCACACCAGAAAAGAGGGAAGAGGGAAGGCCAAGAGGACCCG GAAGGGAAGCCCCGGAGGGAAAAGAGGAGAAGGAAAGAGAGA $A G G G G C A A G A C G G A G A G G G G A C C G A C C A G A C A A G G G G G A A C G$ G G G G G A G G A A C G G A A A GAC G GAGAGGGAAACAGGGACGGGGA $A G G G G A A G G G G A G A C G G A A A G A A C C A G G G G G G G A A G G G G G G G$ GAAGGGGGAAAAAAAAAAAAAAAGAAGAGAAAGACGGAGGGG
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 T G GCAAAAGGGGAGGGACCAGGGAGGAGGGGGGGAGGCCGAG CAGGGAGAAGGAAGGGGGGCCAAGGCCAAGAGGAAGAAAAAA AAAACGGGGAGGGCAGGGGCCGGCAGAAAAGGGAAGGCACAT
 GAGGGCCCCAAAAACAAAAGGAAGGGCGGCCGGGAAAGAAAC C G GAAAAAGAAGGAAAACCAGGGGAAAGGCCACAAGCGAGGA C G G G G G GCCAA G GAGAGAGAGGGAAAAACCCAA AA GAGGGGG G GCGGCACAAAGGTAAAGAAAAGGGACAAGGAAGGAAGAGGA A A A A A GAAACAAAGGGGGAGAAAAGGAGACCGGAAAAGGGGG GAAAGAAGACCGAAACCAAAAACAACCGAAGAAGGGGGAAAA A G G G G G GCCACAAAAGGGACAGGGGAACAAGGGAGAAAACAC ACGAAGGCAAAGGGGGAAAAAGGCCGGGGAAAAGAAAAAAAC A A A A G A A G G G A G G G GAAACAGAAGGGGGGAGGAGGGACAA GA ACCAAAAAAAACCCCAACCGGAAAAGAAAGGAACCAAAAGAA A G A A A A A A A G G GAAGAGCCCCAAAAGAGGAAGGAAAAAAAAA GAGAAGGGGAGAGAGAAAAATGGGGGGAAAAAAGAAGAAAAA C GAGGAAAGAGGGAAATCAAACAAGAAAACCAGAGCCAACAA $A C C G G A A G G A A A A G G G G A A A A A A C C G G G G A A A A A A C C G G C C G$ G G G A A A A A $\mathcal{A} G G G A A G G G A A G G G G G G G G G G A C A G A A A A G A A G G$ A A G A G A G A G G G A G G A A A G G G G A A A A GCGGGGCCGGAACAAAA $A C C A A G G A C C C G G A G A A A C G G G G G G A G G A A G C C A G G G A A G G G$ G GAGGAAGGAGGGCCGGAGAGAAGAGGGACCAAGGAGCCGGG G G GCAAACAAAGGGGCCAAGGGGAATAAAACAGCACAAGAAG $G G A A A A G G G C A A G G A C A C A C C A A G A A A G G A A G G G G G A A A C A A$ CCCAAAAAAGGAAAAGGAAGGGGAAAAGGAGGGAAGACABAAA AAAGGACAGGAAAACAGAGACCAGGGAAGACGGAAAAGAAAA G GAGGCCGGAACCGGGGAAAACCGGGGAGGCAGAAGACCAAA A A A A A A A G G G G A G A GAAAGGAGAGGGAGGAAAAGGATCAAAA A G G G GCCAACCGGGAGGAAAGGAGGAGAAAAGGGGGAGAGGA CA GAAAAAAAAGAGAAGCAACAAACGGGGGATTAAGAAAGGC C G G G G A A G GCCAAGGGGCCAAAAGGAAAAAAAAAAGAAAAAA A G GAAAACCGGAAAAGGGGGGAAAAGGGGAAGGGGAAGGCCG

GAAAAAAAAGGAAGGGGGGAAAAAAAAGGAAGGGGAAGGGGA A G G G G A A A A A A A A A ACCAACCAACCCCGGCCAAGGAAAAAAG G G G A A A A G GAACCCCAAAAAAGGGGAAAAAAGGGGGGGAAAAG G G GAATTAAAAAAAAGGAAAACCGGGGAAAAAACCCCGBAAA A A A A A A ACCGGGGGGGGAAGGAACCGGGGAACCAAGGCAAAA GAAAAGGAAGGGGGGGGCCGGAAGGAAAAGGGGAAAAGGGGA AAACCGGGGAAAAAAAAGGAAGGAAAAAACCGGAAAAGGCCA AAAGGCCAACCGGAAGGGGAAGGAAGGCCGGAACCGGAATTG G G G C C A A G G G G A A A A A A A A A A G G G G A A A A G GAAAAAAAGGCCG G G G G GAATTGGAAAAAAGGAAAACCCCGGGGCCGGAAGGTTG G G GAAAAGGGGCCAAAAAAAAGGAAGGAAAAAAAAGAAAGBA A G G G G A A A A A A G G G GAAAAAAA $A \operatorname{A} G G G C C A A A A A A A A G G G G G G G$ G A A A A G G A A A A A A A A A A A A A A A A A A C C G GAAAA G G G GAA G G G
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AA $A G A A G G G G C C A A A A A A A A G G G G A A G G G G G G A A A A G B A A A$ A G G A A G G G G G G A A G G G GCCGGCCGGAAGGAAAAGGAAAAAAG GCCCCAAAAGGGGGGGGAACCGGAACCGGGGAAGGAAGAAAG GAAAAGGAAAACCGGAAAAGGGGCCAAAAGGAAGGAAAACCC CAAAAAAGGAAGGGGGGGGAAGGGGGGCCGGGGAAAAAAGAA $A C C G G G G C C G G G G A A A A A A G G G G C C G G G G G G G G G G C C A B A A G$ GAAGGGGAAGGCCAAAAAAGGCCGGAACCGGGGAAGAAACCC CAACCAAGGAAAAAAAAAAGGGGGGGGAAGGGGAACCGGACA A A A G GAAAAGGGGCCGGGGCCAAAACAAAAAAAGAGGGAAGA

GAAGGAAGAGAGGAAAGGAAAAAGGAAAGCGAAGAGGGAAAT ATAGGAAAGGAAATTCATACAGAAGCAGAAGGGAGCAGAAAG GAAACAGAGAGGACAAGAACGAAAAGGAGCCATAACCAAAAC
 AA $\operatorname{A} G \mathrm{G} G \mathrm{G} C \mathrm{C} G \mathrm{G} A \mathrm{~A} A C G A G G A A A A G A A G A G A G A A G G G G A G A A A$ AAAGGCCGGGAAAAAAAAAAGGGGAGACAGGCCCAGAAAAAA AACGGCCAGGGGAGGAAAAAAACAGAAGACCAAAAGAGGGGG AA $A$ A A A $\mathcal{A} A G G A A G A A G G C C G G A A G G A G A G G G G G A G G G A G G A G$ GAAA A G A A G G A A GA $A \operatorname{AGGGAAGGGGGGGGAGGAAGGGAAACAA}$ A G GATGGGGAAGGAAAAAAAAAAAAGGGGAAAAAAGAAAGGG G GAGGAACAAGAGAAAGAAAAACGGCAGAAGGAGAAGGAAGA GAAGGAGGGAAAAAAGGAATTAGCAGACGGGAAGAAACAGAG A A A G G A GCCGGGAAAGGGACCAAGGAGGAGGCCAGCCAAA GA
 G G G G G GAA $A \operatorname{AG} \operatorname{GA} \mathrm{~A} A A G G A A A A C C G G G G A G A G G G A G G G G A A G G$ AA $A G G G A A A A A A A A A A A G A C A A A A G G C C G G A A A A G G G G G A C A A$ $A G G G G G G A A G G G G G G A G A G G G A A A G A G A A A G A C G A A G G A G A A$ GAGGGAGGAAGGGAGAGAAAAGGAGGGGGAAAAGAGGCAAAG G G G G A A G T TAA A GCCAGAAGAGAAGAGGGCCGAGGAAGAAAG A G G G G A A C CA G G G A A A A A A A A CA GAGAAAGGAAGACAA GAAA $A C C G G G C G G G G G A A G G G G G G G A C G G A A G G A A G G C C A C A A A A C$
 CA GAACCAAAGACCCGGGGGGTAAAGGAGGGCAGGGGGAAAA A G G A A A A $\mathcal{A} G G G G G G G A A A A G G A A G G A A G G A A A A A A C C G G G G G$ G G G G GCCAAGGAAGGCCGGGGAAAAAAGGCCAAAAGAAAAAA $A C C A A C C A A C C A A C C G G G G T T A A G G C C G G A A A A A A G G A A G G G$ G G G G G G G G G T T A A C C A A G G A A G G G G G G G G G G G G G G A A A A A A T TAAGGGGAAAAAAGGGGAAGGAAAAGGAAAAAAGGGAAAAAC CAAAAAAAAAAAAGGCCGGAAAAAAAAAAGGGGGGGGABAAC C G G A A A A G G G GCC G G G G G G G G G G A A G G C C G G C C G G G G A A G G G GAAGGGGGGAAGGGGGGTTGGAAGGAAAAAAAAAAAAGTTTG GAAGAAGGGAATTAACCGGCAGAAAGGAACCGGGGGGATACG GCACAAAAAAAAAGGAGAAGGAAAAGGGGAGAAGAAAAAAAA A G G G G A A G G G G G G A C A G A A A G A A A G G G G G A G G G A A G A G A C C G A A A G G G G A A A G G C A GAAA $A \operatorname{AGGCAGGAGAGGGAGAAGAGAGGT}$ TAAGGGGAGAAGGAAGGCCAAAGCCCCAGGGAAAAAGA GGAG $G G A C C G G A A G G G G C C G A A G A A C C A G G G G G G G A A G G A C A G A G G$ G G G GAAAGGAAACGCGGAGCCAAAGGGGAAGAA G GAAGAGAA CACAACGGAGGGACCAAGGAGGGGGGAGGGGAAGGGAAGAAG A A A A A G GAAGGAACCAACCGGAGAGAAAAGAAGCACACAAAA C C CA $\operatorname{C} G A G A G G A A A G G G A G A A A A A A A G C C G G A A A A A A G A A A A$ $A C C A A G A A G G G A A A A G G A G G G A A A A A G G G G G G G G G A G C C G A G$ GAGGGGGAAAGGGAGAGGGGGGGGCGGGGAGGGCCGGCAAAA
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 G G G A G A A A A A A G G G GAAAAAAGAGAATTAACAACCAGACGAA GAGAATACCGGGAGAAAAAGGAAAACGAAAAAAGGAGGACCT TAAGGAAGGAAAAGAAGAAGGAAAAGGGGCAGAACAAA GAAA $G G G G G C C A A A A A A G G G G G G C C G G G G G G A A A G G G A A A G A A G G A$

A GAA A GAGGGGCAAGAAGGAGGAAACCGGGGAAGGGGAAAAG $G G G G A G A A A G A G G A A A G A A G G A A A G G A G A G A A G A G G G C A G A A$ C G A G G A A C C G A G G G GAA A G G G A G G GAAAAAAA A A A A G G GAAAA A G G G GAGGAGGGCCAAAGCCGGAAGGAACCGGAGAAGAAAAAA $A C C A G C C A A A A A A G A G A G G A A G G A G A G A G G G A A A A G G G G A G G$ G G G A A A A G A G A G G A GACAGAGCCAAGGCCAACAAAAGACACA
 G G GAGTTAGGGGAGAAGAGCAGACCAAAAGGGGAACACAAA G G G G G G A A A A A A C C G GAA $A \operatorname{GGGAAAAGAAAACCAGGGGGGACAA}$ AAAAGAAAAAGAACACCAGAGAACCGAGAGGGGGCAGAGGGA A G GAAGGCCAAAAGAGAAAAAAGAGGGCCGAGAAAGAAAACA A A G A A C A G A G G G G A G A A A A A G G A A A A C G CAGGGAA G GA G G A G A GAGGGGGGCCGGGGAAGGAAAGGAGGAAGGGGAACACAGAA GAAAAA AAAAAGGGAAAGGGGAAGGAGGAGAGAGAGGGGGGA ACCAAAAGAAAGAGACCGAAGGGAAGAGAAAGGCCCCATAAA G GACCGAGGAAGGCCGAAAGGGAGAAAGGGATTXGGGGGGGG
 C C CA $\operatorname{C} G \mathrm{G} C A C A A C C C A G C C G G G G G G A A A C G G A A G A G A A G A G C$ AC G GAGGAGAACCACGGAAAAGGAAGGGGAAGGGGGAAAGGA G G G G G A A $\mathcal{A} G G G G A A G G G G G A A A A G G A A A A A A G G G G A C G A A G A$ G G GAGCCGAAGGAAGAAAAAAGGGGGGAGGGCCTTACAGAAG GAAAGCAAACCCCGGGGGGAAGGGGCCAACCAAGGAGAAAGG G G G A A G G C A G G G G A A A A C A GA GA A A A GGGAAAAGGGGGAAAA GTTAAAACAGGAAGGAAAAGGAAGAGAGGACAAAAAGABACG G G G G G GAAGCCCAGAAGAAAAAACCGGCCAAAAGGAAAACCG
 A G GA $\operatorname{A} G A G A C A G A C C G G A G A A G G G G G G G A A A C G A A G G G G G G A$ $A G G A C A G G G A A G A G A G G G A A G A G A G G G G G G G G A G G G G G G G G G$ GAGAATTAAGGAACCGGAAGGCCGGGGACGGAAGBAAGAAGA $G G A G A G G A C G G G A A A G G A C G G A A A G A A G A G A A C A A A G C A C C B$ A A A A G A G G G G G A A G G G G G A G G C C G G A A A G GAA $A$ G G GA G A A A A A GCAGGAACAAAAACCAGAGGGGGGGCCAAAGAGAGGAGGGGG GAAAAAAGGGGAAGGAGAAAGGGAGAGAGAGGGAAGGAAGAA A G G G G A A G G G G A A G G G G G G A A A A G G C CAAAAAA A $A$ A G G G GAA A
 G G G A A A A G G G GCCAAAAAAAGGGGAAGGAAGCAAGGAAA GA GA G GAGGAAGGGGGGGGCAAAGAAAAGGAGAGGAAAAGGGGGGA A GAAAAGACAAGAAGCATTACGGGCAAAAAAAGGGAAAAGBA
 G G G G G A A A G G A A GA $A \operatorname{A} A G A A A A A A G A A G G G A A G G G G G A B A A A C$ A G G G G G GAGGAAAAAGGCCGAAGGGGATAAAGGGAGAGAAAA
 GAGGAGAAGGAGAGGAGACAGCCGAAGGAAGACGGGCAAGBA
 G G G G G G G A A G G G G A A A A $\mathcal{A} G A G G G G G C C C C G G A G A A G G G G G G G$ G G G G A G G C A G A C C G G A A A A C C G G G G C C G G A GAA A A G G A G G G A A A A G G G G G A GAGGACACACAAAAAAAAAACCGAAGGGAAC CA G GAGGAAAGGAGAGGAAAAGGCCGAAAAGAGCCAAAAGGGGA A G G G GAAACAGGAAGGGAAAGCGCCAAAAAAGGAAGGCCGGA A A A A A G G G G A A G G G G C C A G A A G G A A G G G G G G A A G G G G
$A G G G A G G G G G A G A A A C G G G G A A G G G G A G A G A G A A G G A A G G G$ G G G G G A A A GAAGGAAAAGGTTAAGAAGGGGGAGAAAAAAGGG G G G G G G A G GCC G A C C A C G A G A G G G G A A G G C C G G G G A G A A G A A GAGGACCAACGGAGGAAAAGGGGGGGGGGGACCAGCAAAGGG A GAA A GAGGGAAGGACCAGACAAGAGGAAAAAAAAAAGACAG GAAGGAAAAGGAAGGGGAAACAAAAGGAAGAAAAGAAGGGGA GAACCGAGAAACAAGAGAGAGGAGATAAGGAGGGGGGGATAG G G G A A A A G GCCAAAAGGAAGGGGAAAAGGAAAAACAGCAAAA GAGGAAACCAAAAAAGAGAGAGGGAGGGGGGAGAGAGGAGAA

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 G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G $G G G G G A G G G G G A A A A A A G A A A A G G G G G G A A G A G A G G A G A A A G$ GACGGACAAGGAAAGGAGGGAGGGGAATTGGGGAAGGGAAAA GAGAGGGGAAAGACCGGAAAGGAAAAAGGGGAGAACACAAAA G GAAAAGGAAAGGAACAAGGAGGGACACCGGGGAAAACAAAA A G G A A C C G G G G A A A A G GAA A G G G G G G G G G A A A A G GC C G GAA A A A A G G A A G G G G A A G GAAAACCCCGGAAGGAAAAAAGGGAAAA A A A A A A A G GAACC G G G G A A G G A A A A GGCCAAGGAAAAGACCA
 AAAGGAACCGGGGGGGGGGGGAAAAGGAAAAAAGGAACAAAA A G G A A G G G GAA $A \operatorname{GAAAAAGGGGAAAAGGGGCCGGAAGAAAAAA}$

 A G G G G A A A A A G A G A G G A GAA A A A G G G G A G C A A G G G G A A A G G A AGGACAAGAGGAAGGAAAAGAAAGGAAGGAAGAGGGGAAAAA A A A A A G G A A A A ACATCCGGGGGGAAGAGAGAAAAAAAGAGAA A A A A A G GAGCAACCAAAAGGAAAGGAAAGGGAAGGGGGAGGG GCAGAGGAGAGAAGACCAGGAGGCCCAAAAGGGAAAGAAAAG GAAAAAAAAGACCGGAGAAGAGAAAAAGGAGAAGACCGGGGA $A C C A A A A A A A G A A A A A G G G C C G G A G A A A A G G A A C A A G G A G G A$ A G G G G A GAGGGGAAAGAAAGGGGCCAGAAAGCGAAGGAAAAC
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 GAA G A A A G GAAAAAAAAAACCGGGAAGAAGAACCAACACAA A A A A G A GCAAACCAACCAAGGAACCGGCCGGAGCAGGAGAGG $G G A G G A G C C A A C A G G C A A A G G A A G G G G G G A G G G G G A A G G G G G$ G G GAA $A \operatorname{GA} A A A G A A C G A G A A A G G G G G G C C G G G G A G G G C C G A A$ G GAA $A$ AA $A \operatorname{A} A A G G G G A A G G A A G G G G A A C C G A A A G A A G A G G G G$ GAAAGAACACACAAGAAAAGGGGAAAGAAAGGAGAAGAGAAC C G GAAAAAAGAGAATAGAGAACCCCGAAGAAAAAAAAAAGEG AAAAGGGGAGAAGCGGGACGGAAAAAGAAGACCCCGGGACAA GAGAAAGAAAAAGGGGGAGAAAAGGGGGAAAAAATCABAAAC A GAGGGGAGAAGGGGGAGGGGAGGGGGCCAAAACCGAAAGAG A A A A G G G A C G G G G A A A G G G A A G G A A G G G G A A G A T T CACAC CA A AACCAAAAAGAGAAAAGAATCCCCGAGGAAGGAAACTXGGG GAGAAGGAAAAGAAAGGAACCGAGGAAAAGGAAAAGAAAAAC A G G G A A A G G G G A A G G G GAA $A \operatorname{GCC} C G G G G A A C C A A G G G G A A A C C$ CAACCGAAGGAAGAAGGAAAGAGAACAAGGAAAAAAAAACCC $C \subset C A G C C G G A A A G G A G A C C G A A G G G G G G C G G A A A G G G G G G G G$ GAAAAGGAAAGGACCAAGACCAAAGGACCGGAAAAACAACAG GAGCCGGAAAAGAAGAAGACCGGGGAGAAACAAAAGATAAAG G G G G G G G G A A A G G G GCAGGGAAAAAGAGGAGAACC G GAAAGGC CAAA $A \operatorname{G} G A G T T G G G G A A G G G G A C G G A G G G G G A A G G A A A G A G C$ A G G G GCCAAAAAGAAGGAGAGGAAAGAAAGAAAGGAACCCCA A G G G G A A A A G G G G C A G G A G A A A A A A A A GAGGGGCACC GAGAA C GAAGCCAGAGGACCCAGGGAGAGAAGGGGGAAGGAAAAGGG GAAGAGAGGAGACGAAAGGAACAAGAAAAAAGGGGAGAAAAG GAGGAAAGAGGGACCGAGAAGCAGAAGACCCGGGGGAAAAAG $A C A A A G A C C G G A A C C C C C C A A C C G G A A G G G G T T A A G G C C G G G$

G G GAAAAGGGGGAAGGAGAGCAGAGGGAAAGGAGAAGAGAA
 A A A A A A G G A A GACAACCGGAAGGGGGGACAAAAAGGAAATTG A G G GAA A A GAACAAAAAAAGAAGGGCACAGGACAAAGCBAGC A G G GAGGGGCCAAAGACAGAAAAAGGATAGGGGAAGGGAAAA A GAGGGGAAAAAATTAAAAAAAAAAGGAAGGGGAAGGAGAAG GAAACGGGGGAACACAAAAAAAAAAAAAACCGGGGGAGAGAA GAAGGGGAAAGGACAAGGAAAAAAAACGGAAAAGGGGGAAAA
 AGGCCAAAAAAGGGGAAAAATGGGGGAGGAGAAGGAAAAGAG G GAAAGGGGAAGGGGAAACGGAAAAAAGGCCGGAGGAAAAAC C C C T T G G A A A G A G A A A A A T GA G G G G A A G G G GAA $\mathcal{A} G A C G G G G G$
 GAAGAAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGAAAAA G G GACAAAAAGGGAAAAAGGAGAAAGAGGGGCAAAGGAAAAG G G G G G G GAA $A \operatorname{GAA} C \subset A G A A G A G G A G G G C C A G A A A G G A G G G A G$ GAAGGAAAAGGAAAGGAGGGGAAGGGGACCCAGAAGGAAAAC CAACACCGGAAAGGGGGAAGAGGGGCCGAGGAAGACACAAAA A A ACCAAAAAAGAGGAACCCCGGGGACAGAAAAAAGAAAGGA $A C C C C G G G G G G G G G G G G A A G A G G A A G G A G A A A G G G A A A C G G G$ G G GAAGGAGCGGAAAAGGAGAGGCAGGAGGGAAACGAGAGAG GAGGGGGGGAAAGAAGAAAGGGGGAAAGGGGAACCAGACGAG G G G G G A A A GAAAGCCAGGAGACAGGAACCAGAAAGAGAACCG G G GCCAAAGGAAAAAGGCCGGAACCGGAAGGAGAAGGCAAAA A A A G A C C A G G A G G A A G G G G G G G G G G A A A A A GAA A G G G A A C C A A A A G G G A A A G G A A G G G G A A A A A A GAGGAAA $A \operatorname{AGGGGA} G G G A A G$ G G G G GAACCCCAACCGGAAGGAAGGCCGAAATAAAGGGAAAA AAACCGGGGAAGAAAGGCAAAAACCAGCCAAAAGGGAAGGGG G GAGAAGAGAAGACCCCGGCCGGAGAAAGGAAGGGGGCAAGA G G GAAACCACAAGGGAAAACAAAAAGGGACCACAGGAAAAAA A A G G GCC G G G A G A A GAGGGCC G G A A G G A A A C G GA G A G G G G A G AA $A G G G G G G G G G G G G A A G A A A A A A G A A G G G G G G A A G G A G A G C$
 GAAGGAGAAAGAACCAGAAGGAACCCCAAGGAAGGACACAAA A GAAA $A \operatorname{A} A A G G A A C C G G A A A A G G G G A G A A G G A G G A G A A A G G G$ A A G A G G G G G G G G G G A G G A A A A A A A G A G A A $\mathcal{A} G G A G G G G G A A A A$ G G G G G A G A G G G A A A A A A G G G G G G A A A G GAGGGAGGGGAAA G G AAAGGAAAAAAAAGGCCGGGAAGAAGGAAGGAAGGGAAAAGA G G G G G G G G G A G A G G A G G A G G G A G G G A A G G G A A A A A A A G G G G A
 G G GCC G GAGGAAGGGCGAGGGGGAAAGAACCGGGAAGGGGGA GCCGGAAAAAAAAGGGGGGAAGACCAGCAAAAAAAGGGAAAA AGGGGAAGAGACCACCCAGCCCCCCGAAGAACAAGGAGGATA G G G A A G G G GAA $A \operatorname{GA} A A A A A A G A C A G G G A A G T T A A G G A A G G G G G$ G G G G G G G A A G G A A G G C C A A A A G G A A A A G G G G G G GA GAC C G G A A A A G G G G G GCCGGGGGAGGAAGGACGGGGCCAAAAGGAAA GA ACCAAAACCCCCCCACAAACAAAAGAAAGAAAAGAGAGGGGG $A T A G G G G C C G G G G A A C C A G G G A A A A G G G G G G A G G G G G A C G G G$ GCCAAGAAGAACCCCGGAAAGAAAGGAGCAACCAAGAAAAAG GAAGGGGAAGGGAGGCCGGAAAAAGAGGAGAAACCAA
G GACGGCCGGAAGGAGGGGAAGAGCCAACCAAGGGGAACAA G G G A A A GACAGAAAAAAGGGGGGAACAAAAGGGAAAAAAGGG G G G A C G G A A G A G A C A A G G G G A G G A G A A G G A G G A G G C C A A A A A A G GAGAGAAGAGGACGGAAGGGAGAGGAAGGGAAAAGCAAAA A G G G G A A G GAAAAAACCGGGGAAAACCAAGGCCAAAAAAAAC C C C G G G G A A G G G G A A G G G G G G A A A A A A G G A A G G G GCCG G C C A AAAGGAAGGAAGGAAAAGGAAAAGGGGAAAAGGGGCAAAAAA $A G G A A A A A A G G A A G G G G G G G G G G G G G G G G G G A A G G G G G A A A B$ GAAGGGGAAGGAAGGGGGGAAGGAAGGAAAAGGAAGAAAGAA

AAAGGGGAAAAGGAAAAGGAAAAAAAAGGCCGGAAGGGAAAG GCCGGGGAAAAAAAAAAAAAAGGGGAAAACCCCGGGGGGGGG $G G G A A G G A A A A C C G G G G G G G G A A C C C C G A A G G G A G A G G A C A G$ G G GAA A GAGAGGGGAGGACGAGAGGAGACGAAGGAAAAAAGA A G GAAA A A G G GAGAGGAAAGGAAAAGGAACCGGGGAAAGGGC C G G C C A A A A G G G G G G G A G G A A G G G G A A A A A GAAC $A$ A A A G G G G A A G GACGGGGAGAAAAGAAGAAAAAACCGAGGAGAGCAAGGGG GGGGAAAGGGAGAAAAACCGGAAGGAAGGACAGAACCCAAGA $A G G G A G G A C G A G A G A G G G G G A A G A G G G A A A A G G G G G G A A C A C$ G G GAAAAGGAAGGGGCAGGGGAAGGACCAAGGACAGAACGGG $G C C G A A A A A G G G G G A A A G G A A C C G G A A A A G G A A A A A G G G G G G$ $G C C A G G A G G A A C A G A G G A A G A G G A A A G G G G A A G A G A A G G G G C$ A G A A $\mathcal{A} G G G G G G C C G G G G A A A A G G G G G A G G G G G G C A A G A B A A G$ A G G G G A G A G A A A A G G G G G G A A G G G A A A A A A A G A G A A G G A G G A A A A G G GAGGGGAACACGGGGGAAATGGAAGGAGAAGGCCCCG G G GAA A AT TAAAAAATTAGCCAGGGAAGCAAGAAAAAAAAAG GAAGGAGCAGGCCGGGGGGAAGGGGGGACGGAAAACCBACCG GAAGGAAGGAAAAGGGGAAAACAAAAGAGAGCACACCCAGAA $A C C A A A A A G A A A G G G G G C C A A A C A G G G C A G G G G G A C A G A A A C$ A A A G G G A G A A A A G A G G A A G G G G G G G C G C C A A C G A A G A A C G G A GAGGAAGGGAAGGAAGGGACCAGAAAGACAAAAAAAAAG GAA G G GAA A GCCGGGAGGAAGGAGAAAAGGCGCCGGAAGAAAGAA AAAAACCAAGGGGGGGGAAATGAGGGGAAATGGCCAAAAGBA AAAAAGGGACCAAGGAAAAAGGGACAAAAGGGGAAAGAAAAA G G G G G G G G GAGAAAAGGAAACAAGAAGAGAAGGATCCAAAGAG G GAAAGAAGGAAGAAAGGGGAACGGAGAGAAAGAGCCGAGAA A G GCAGGAAGGCCAAGGGGAAGGAAGGGGGGAAGACAATGGA AAGCCGACAAGGAACGGGAGGAAGGAAAGGAACAAAAGAAAA G G GCCAAGGGGAAAAAAGGCCAAAAGAGGAAGGGAAAAAGGG GGGCCCCAAAAAAAAAGGGGGCAAGGAAGCCGGAAGGCCGGA GAAAGAGCAAGAAGGAAGGAAGGAAGGGAGAGGAGGBAGAAG GAAAAGAAGGGGGGAAAGGCCAAAGAAGGAAGGGACCAACAG GCAGGGAAAACCAGAGGGGGGGGAGTAAAGAGGAAAGAAAAA $A G G G G A A C C A G A G A G G G G G G G A G G G G G G A A G G A G G A G A C G A G$ G G G G GCC G GA G A A G GAGAGACAGGGGAGAGGAGGGAAGAAAA A G GAA A GAAGGACGAAGAACCAACCGGGGAAAAGGAAAACAA $A C C A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G$ AAGGGAAGAAAGGACAGAGCCAGAAAAGGGGCCAAGGACGBA A G G A G G G A A G G G G G A C C G A A A G G G G G G A A A A C C G A A GA GAA G G G A A G G A A G G A A C C G G A A A A G GCCGGAGCAGAGGAAA G G G G G G G G G G G G GAA A A A G GAGGAAA $A \operatorname{ATA} A A A A G A G G G G G A G A G A A$ G GAGGGACAAGCCGGAAAACAGAAGTTGGAAAAAAGGGAAAA $A C C C C A A G A G G C C A A G G A A G G A A A A G G C A G G C C A A A C A A A A G$ GAGGGAAAGAGAAAAAACCAGAAAAGAAAAGGGA GAAAAGAA A GAGGAAAAAGGGAAGAAAGGGGGGGGACGGCCGGGGAGGGG G GAGGAGAGAGAATTCCGAAGGGAGGGGGAAGGAAAAGAAAC CAAGGAGAAAGGGAAGAAAAGAGAAAAAGAAACGGAGGACCC C G GAAAGAAAACCGAAGAAGGGAGAGAGACCGGACAGAGAAG GACAAAAAAGGAACAAAAAGGCCAGGGGGAGCCAAAGGAAGA A A A A A A A A GCCGGGGAGAAAGACAACCAGGGCCAAGGAGAGG
 G G A A A A G G G G GCC G G G G G G GA $\mathcal{A} G G G G A G G G C A A G A A G G G A A A G$ GACGAGGAGAAAGAGAGAAGGCCGGAAGGAAAAGGAAAAGAA A GAGGAAAAGGGAGAAAAAAGGACCAGGGGGGAAGGGGGGGG $A A C G G A A G G A A G G A A A A T T G G G G G A G G A G A G G A G G A A G A A G A$ GAACCAAGAGGGGCCGGAGGGGAAAGGGGCCGGGGCCGGGGA
 A G G A A A A G G G G G G A A T T C C A A A A A A A G GCC G GCCAAAAAAAA A G G G G GAAGGGGGGGGGGGGGGAAAGAAAGCAAAGGAACAAAG

A A G G G G GCAAA A GAAGGAAAAGGAGAGGGAAAGAGGACAAAG GAACCAAACAGGGAAACAGAGGGGGGGCCAAAAGGGGGGGGG GAGGGCCAAAGAGAAAGAAGGCCGACAAGAGGAGAAAAAAAA AAAAAAGCCAGGGGGCCAGGAGACAGAAGAATTAAGAAAGGA A GAAGAAGGAGAGGGAGAGGGGAAGAGCCGGAGCAGAAAGAA GAAAAGAAAGAAGGAAAGGGCAGTTAAGGAGAAGAAAGAAAA AAAGGAGGAAGGAGGAGAAAGGAAGAAGAGGCCAAAAGGGGC C G G G GACGGCCCAAAGAGAAACCCCGAAAAAGAAA GAAGGGG
 GAAGGGGAAGGGGGAGGCAGACCGGGGGGGGGGGGAAAAAAC CAC $\mathrm{C} A \mathrm{~A}$ G G G GAAAAGCCAAAGGGGGGGGGAAAAAAGGCAAAA C G A G G T T A A A G G G A G G G A C G G G A G G A G G A G GAAA A GACAAA A A G A A A A A A A G G A A A A G A AC GAGGCACCCCACGGACAGAGAAA GAAAGGGGGAAGAACGGGGAAAAGAGGAAGAAAGGCAGGGGA A G G G G G G G A A GAAAAGGGGAAAAAGAGGAAAAAAACAAGCCA $A C C A A A G A A G A A G G A G G G G A G A A A A G A A A A A G G C C C C G A A A A$ A GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGAAAAAA
 $A G G G G G G G G G G A G T T A A G G G G G G G G A A C C G A A G A G G A G A G A G$ GAAGGGAGGGGGGAAGAAAGGGGTTAAAAAAGGGAAAAAGAG G GATTACAAACAAGGGGGGGGAGGAGGAAGGAAAAAACAGAG GAACAGGAGAACACAAAGGGGAACCAAAAAAAAAAAAGAAAG G G G A ACCAAAAAACACAAAGGGAGAAACCGAGGAGAAGAAAA $A C C A A C C A G C C A A A A A G A A G A G A G A A A G G G A G G G G A A G A A A C$ CAAAACAAGGGAAGGGGAGCCGGCCGGGGGGAAGACAGAGAA GAGAGAAGGGAGGCCAAGGCAAAAAAAAAGGAAGGAACCAGA GAACCGGGGGGAAAGAGGAAAAAGGGAAAGGAGAGGAGAGAG GAAGGAAGGAAAGGAAAAAAACAGAGAGGAAAGCACCCAAAA A G G A A A G A G G A G G A G G GAGCAAAGGAGAAAGAAG GAGAAA GA $A C C A A G A G G A G A G G A C A A A A A A A G G G G A G A G A G A A A G G A A A A$ G G G A G A C A G G GCACCGGGAGAGGCCACAACCAA GAA GAGGGA G GACGAAGGAAGGGGGGGAAACCGAAAAAAACCGGAAGGGGC CAAAA $A \operatorname{A} A A \operatorname{A} A \operatorname{A} G A G C A G G A T A G G G G G G G A A A G G G A G G C G B A$
 GA $A$ A $\operatorname{A} A A A A A G G G C X G G G G G G A A G G G G G G G G G G G G A A G G G G G$ GAAAAAAGGGGGGGGGGGGCCAAAACCGGGGAAGGAAGGGGC CAACCGGAAGGGGGGTTAAAAAAGGGGCCGGGGGGAACCCCG GAAGGAAGGAAGGCCGGAAGGGGGGGGGGGGGGGGGGCCBGA A A A A A G G A ACCGGCCAAGGAAAAGGCCAAAAAAAAGGGGCAA AAACCGGAAGGAAAAAAAACCAAAAAAAAAAGGGGGGAAAAA AAAGGGGAAGGAAGGAAAAGGGGAACCGGAAGGGGGGCCCAA
 GAAAAAAGGGGAAGGGGAAGGGGGGAAAAAAAAGGAAGAAAC CAAGGAAAAGGAAGGAAGGAAGGCCAACCCCAACCAAGGGGG $G C C A A A A A A G G G G G G A A A A A A G G C C G G G G G G G G G G G A A A A A A$ ACCAAGGGGCCGGCCGGAAAAAACCAAAAGGCACCGGGGGGG GAAG GAATTGGGGAAAAAACCGGGAGGAACCGGGGGGACAAA $A C C A A G A G G A G A A A A A A G G A G G G A A G C G G A G G C A A A A A A G A G$ G G GAAAGGGAAAAGAAAAAAAGACCGAGGAACCGAAACAAGC C G G T A C A G G G G A G A G A A G G A A G G A A A A G G G G A A G A A G
A A A A GAAAAAGAGAAGGAAGAGAACCGGAAAGGGGGGAAAA AAGAAAAGGCCCCAAAACAAAAGGGAGGGAAAGAGTTAAAAA A C C A G G G G G A A A C A G G G G A C C A G G G G G G G C G A G A G A A A A C A GAAAAAAAAAAGGAGAGAAAGAAAGGAAAGACCAGACGAGGG GAACCGGAAAAGGAAAAAAGGAAACGGTAAGAAGGAAGAAAA A A A A A A A A GCA $\mathcal{A} G A A A A G G G A A G G G A G G A G A A A A A G A A A G G G$ ACAGGGGGGGGCCAAAAAGTAAAAGGAGGAGAGAGACAGAAA G GAGGAAAAAACCACGAGAAAAGGGAAAAAGTAGAACCAA GA AGAGAAGAGAAAAAACCAAGGAAGAAATAAAGGAAGGCAAGA

CAAAGGGGGAAAAGGAAAACAGAGAAAGGAAAAGGCAAAAAA $A G G C C C G A A A G G A G A G G G G G G G G A G A A G G A A G C A A G A A A G A G$ GAGGAAAAGGGAAGGAAAAACAGCCGGCCAACCAAGGAAGGG A G G GCGAAAGGGAAGGGAAGGGGGAGGCCAAAAAAAGAAAAG GAGCCAAGGAAAAAAGGCCGACCAGAGGGAAAAGAGAGGGGG
 G GACAACAAATAACCGGATACAGAGGGCCGGGGCAGGAAGGG GAAAGACAAAAGGAAGAGGGGAGAAGCAGCAAGAACCGAAAG A G G A C C A G A GACC G G G G G G A A G GAGCC GAAAGGGGCC G GAAA G G G G GAAGGAAGGAAGGGGAGCCGGAAGGAAGGCCAAAAGAA GAGCCCCAAGGAAAGAGGAAAGCGAGGCAAAGGGGGGCAAAA GA $\mathrm{G} G A A A A A A G G G G G A A G G G G A A G G A A A A G G A A A A A A G G G G G$ GCCGGGGGCAGAAGGAAGAGGAGAAGGAGGGAAGGGAAAGAA A G G A A G G G G G G G GCAGGCC G G A G G G C CACAGGAGGAA GAGAC AAGGGACAGGAGGAGGACCAACCAGGGAAAAAAACGACAAAG GAGAGCAAAGGAAGGGGCATTAGAGAAAGAAACGAGAAAAGAA A GAGGGACCAACAGAAGACGGAAGGAAAAAAAAGGAAAAAAC CAAAACCGGGGGGGGAAAAAAAAGGAAAAGGGGAATTCCGBA AAAGGGGAAAAAAAAAAGGGGAAAAGGGGAAAAAAGGGAAAA AACGGAGAAGAGGGGAACCGGAAGAAAGACAGAACGAGAAAG G G G G GAAAAAAAAGGGGGGAAAAAACCAAAAAAAAGAAAAGG GCCAAGGGAAGAAAGAAATGAGGCAGAAGGACAAGGAAAAGA A A A A G A ACCGAAAGGAAGGCCCCAAAAGGGGAAGGGGGAAAA A G G A A A A A A A A A A G GCCGGCCGAGAAAAAAGGGAAAA GAAAA A G G G G A A A G A C G G A G G G G G CA G A G A A A A A A A C C A GAA A A G G G G GAAAAAAAAGGAAAAAAGAAGAGGAAAGAGAGGAGAGGGGAG A G GACTTAAAAAGGACCAAGGGGGAGGAAAAGAGGGGCCGGA A A A A G A A A A G G G G A A A A G GAGGGGGAAGGCACCCCAAACCCC C CAG G A A A A A G A A G GCCAAAACAGGCCGGGATAGGAAAAGAA C G G G G G G A A A A G G C C G GAGGGGACCAAACGGCCAGCGGGGGA A G G G G A A A A A A G G G A G G G A G G A G C A G G A A G G G G G G G G G G A G A $A C C A A G G A A A A G G A A G G C C A A A A A A G G G A G G A A A A A A A A G G A$ G GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAGAAC C G G G G G G G A G G A A A G C A A G A A A G A A G G G G G G G G G A C C A G A A A G G A A G G A A A G G A A G A G G A A C C G G C CAGGGGGGGAC G GA GA C A G G G A A GACCGGAGAAAAGGAAAAGGAAAAAGAGBAGACAGGA A G GAACAAAAACCGGAGGGCAAGGGGGCCAGAACCGGGAAAG AAAGACCCCGGAAGGAAAAACGGCAACCAACAAGGAGGGGGA A G GAACCAAGAAAGGAAAGGGAGCCAAACGGGGGGCCABAAG
 $G C C A G G G G A C G C A A C A A G G G A G G G G G G C C A G A A G G A G G A A A G$ A G G A G G G A A A A G G G G G G A A A A G G G A A G A A A A A G G G A A A G A A A G GAAAAAGGGGGGGAGACCAGGGTAGAAAAAAAGAGAAGAGA
 GAGGAGGCCCCGGAAAAAACCAAGGCCAAGAAGGAGGGAAAA G G G A A A G A A G G A A G A CAGGCCCCGACCCCAGAGGGGGGACAA G G G G A G A A GAGACAGCGGAAGACCCGGGGCAAAACAACAAGBG G GAA A A A G G G G G G A A GAGGAGAAACGGAAGGGGAAAAAAGGA G G GAAACGGAAAAGAGAAGGGCAAAGGGAGAAGCACAGAAGA GAAGGGGGGCCAAGGCCAAGGGAAACCAAAGAAGGAGAAA GA GAGAAAGGGGGAGAGACAAAAAAAAGGAAAAAAGAGGCAGGG A GAA A G G A GAAGGAAGGCCAAAAAGCCGGGAGGGAGGAAAAG G G G G G A A A A A G G G G A A G A G A G G G A A G G A A A A A G G G G GAAA A A AGGGAAAGAGGGAAACCAAAAGGAAAAAAAAAAAAAAAAGGA $A C C A A C C A A G G C C G G C C G G T T G G G G A A G G G G A A A A G G G A A A G$ G G G A A G G G GAGAAGGAAAAAAGACAGAGAAGAAAGAGAAGGA A A G G G A A G A G A A GCAAGGGGGACACACGAAGAAGGAA GAAA G $G G A G G A A G G G G A A G A G A A A G A A A A G G G A A A A G G A A A C G G G G A$ A G G G G G GCCGGGGAGAAGGAAGGAAGGGGGGCCAACCAAGGC

C G GAAGGGGGGCCGGAAGGGGTTAAGGAAGGAAAAAAAAAAG G G GCC $C$ G $G G G G G G G A A G G G G C C A A G G G G G G A A C C G G A A A A A A G$ G G G A A A A A A G G G GCCAAAAGGCCAAGGAAAAAAAAAAAAGAA A G GAACCAAAAGGGGGGAAAACCAACCAAAAGGGGAAAAAAA AAAGGAAGGAAGGGGAAAAAACCAAGGAAAAAAAAAAGGGGA
 A A A A A A A G GAAAAGGCCAAGGGGAAAAAAGGAAGGGGAAAAA AAAAAAAAAGGGGGGAAGGCCCCAAGGAAAACCGGGGGAAAA G G GCCAACAGGAGCCAAGAAAAAGGAAAAAAAAAAAAGACAG
 GAGGAGAGGAACCAACCGGAAAGAGAGAAAAAGCGAAAGAAA A G GA G A A A A CA G GAAAAAGGGAAAGAAAAAGGGAGGGCCCCG A G G A A C A G G A G A A A G A A G G G A G A G G G A G A G G C C G G A A G G G G A G G G G A A A G A C A A GAGAAAGGGAAGACCAGAAGGGGGAAAGAG G G G G G G A A G G G G G A A A A A A G G G G G G A A A A A A GAA A A G TAC C G G G G A G A GAA $A \operatorname{GGGGGGA} G A A G A A A G G G G G G G C C G G C C C A A A G$ GAAGGGGAAGGAAAGGAAAGAAGGAAACCAGACCAGGAGGBA GATAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG $G C C G G G G G G A A A A A A A A G G A A A C A A G G G G G A A A G G G G C A A G C$ CAATAAGAAAGAACAAGAAAACGGAGAAGAGAGAAAACAGGA GAACCCCAGCAGGTAAACCAACCGAGGAGAGAAAGCAAAAAA A G GAACGAAGGCCAAGGGGGGGGAGAGAAGGAAAAGGAAAGG GAAGGCAGGAGAAAGGGGGACGAAGGGCAGGGAACGGCAAGG GAAAAGGGGGAAAGGCACCAGAAGGCCAAAACCAAGGGGGGG G G G G G G G A A A A C C C GCA A A A G G G G G GAGAGAGAAA GA G GAA A AGGGGAACCAAGAGAAGACATAGAACACCAAGAGGTTAAATG A GAGAGAGAAAAAAAGGGGAAGGAAAAGGGGCAGAGGAAAAA A A A A A A G G G GAAACCGGCCAAAAAAGGCCACGGGGGGAAAAG GAAGAAGAGCGAAAGTTGAGGAAAAAAAAGGCCCCCCAACAG GAGAAGAGGAGCGAAGGGGGAATACCCCAAAAGCCCCAAGGG A G GCCAGACAGAGGAGGAAACAGAAAGGACCGGGAAAAAAAC CAGTAAAAAAAAAAGGAAAGGAAGAAAAACCGGGGCAGGGGA
 A A A G G A A A A G G G G G A G A G G A C G G A G T TA $A$ A A C G G G G G G G G C A A ACCAACCAAAAAAAAGGGGAAAAGGGGGGGAGAAAAAGGGGG ATTAAGGAGAGGAAGAAGGGGGGAAGGGAGGAAAGAAAAGAA A G GAAAAAAAAGGGGGGAAAGGGGGCCGGAAGGGGGAGAGGG GAGGGAAGAGGGGAAAAACAAGGAGGGAAAGGAAAGAAAGAG A G G A T A A G G A G GAACGGGGCCCAGGGGAGGGGGGGGGAAAGA
 A A GAGGGGGGGAAAGAGGGAAAAAAAAGAAGCAAAGGCCGGG GAGGAAGCAAAGGAAGGAACCAAAGGGGACCGACCAACAGAG AGGAATTAGTTAAAAGAGAGGAAAAGGAAGGCCGAGGCAATA
 A A A A ACCAAGGAGAAAACCAAGGAGAGAGAACAAAGGGAAGA C GGCCAAAAAAGGCCAAGGCAACGGGGAAAAGGAACCAGAAG GAAAAGGGGAAGGAAAAGGGGAGGAAGAGAGAGAAAGAAGAC ACAGGAAGGAAACGAGGAGGGAACCGGAAAAGGAAAAGCGBA A A G A G A A G G G G G G G G G G A A GAGGAAGGGGCAAGAA GAGAAAA A A A G G G GCCAAGGGGAGAGCCACACAAAAAAAAAAGG
G GCAGAGGGGCCAAGGGGAAAAGGAGCAACGAACCCAAGCA GAAGGAAAAGAAGAAAACCAGGGAGAACAAAGGAGAAAAGGG G G G G A T T G A A A A GAAGGAAGGAAGGAAAAAGAAAAAACAAAA AGGAAAAGGGGGGAAGGAGGGGGAAAAAAAAGGAGGAAAGAA ACAGGGGGACAGGAGGAGAATGGAGCCAGGGAAAAGACAACA AAACCACAAAAAAAACCAAGAAGGAAGGGGAGGCAGGAACAG A G GAAAAAAAGGAAGGGGGGGAGGAGGAACCGAAATTGGGAA GAAGAGGGAAAAGAACCAAAAGGGGGGAAAAGAGAGAAAAGA AAAGGAAGGCCAAAGAGAGAAGAGGCCAAAAAAAGAAACACA

G G G G GAAAACCAGGGAGAGAAGAAAAAAAACGAGGGGGGCCG
 AAAAAAAGACCCCGGGGGGGGGGAAGGGAGGAAAAGAGAAAG GAAGGGGAAAAAAACAAAAAGGGAAGGGGGAGGGGAAGAAAA AACAGAGGACCTTGGGACACAGGAGGCGAGGAGAAAGGAAAG G G G G G G A A C G G A G G A A G T T G A A G G G G G G A G A GCC G GAAA A A A GAGGGAGGAACAGGGGGGGCAAAGGAGGGGGGGGAGAAGAAA GAAAGAACCCCAAGGGGAAAGGAGGGGGGAAGAAAGAAACCB
 AGGCCAAAAGAAGAAAACGAAGGGGGGGAGGGGAAGGAGAAG G GAGGAAAAGGGGAGAAAGCAGGAAGGGGCCGGGGAAGGGGG GAGGGAACCAGGGGACCGAAAAAAAGGAAAAGGAAGGGAAAA
 A A GAAAAGGAGCCAAGGAAAAAACCAACCGAGAAGAAGACAT TAGCAATAGCCAACCAGAGGGAAAAGGAAGGGAGAAACAAAA A GAGGGAAGGGAAGGAAGGGAGGGGGGGGCAGGAACCGGCCA A G GAA $A \operatorname{GAAAAAGAAAAAGGGGAAAGGAAAAGGGGGGAGGGAA}$ A G GAGAAAAACAGGAAATTAGGGAAGAGGAGGGA GAA GAA GA $G C A G G G G A G A G G G G G C C A A A A G G G G A G G A A G A A A A A G C C C G G$ G G A A A A A A A G G G G G G G G G G G G G G A A G G G G A A C C C C C C G A A G G AAGAACCCACAAGAGAGCCAAGAAACCCAGAGAGAGAAAGGG G G G G G A A G G G G A A G G G GCC G A A G G A A A A A A GAA G G G G G A G A T
 G G GAGAAAAAAAACCCAAGAAAGAAGAAACCACAAACAGGAG A G G A A G G A A A A A G A G G GAA $A \operatorname{G} G A C A G C C G A G A A A A A A A G G G G G$ G G G G G G GCCAAGGAACCGGGAAGGAAAAAACAAAGACGGGGG G GAAACCAAGACCGGGGGGGGAAGGGGAAAGAGCGTAAACAG G GAGGGGGAAAAAAAAAGGAACCAAGGAATTGGGGAAAAGBC CAA $A \operatorname{GAAAAAAAAAAACCAAAAGGGGGGGGAAGGAAGGCAAAA}$ A G G G G G GAA A GCCAAAGGAAGGGGAAGGGGAAAAGGGAAAAAA A G G A A G G A A G G A A A A G G A A A A A A A A A A A A A A A A A A A A G G G G G G G G G G G GAACCAAAAAAAAGAGGGAATAAAAAGAGAGGAAAA A A A C CA $A G G G G A G A G G G A A G G G G G G G G G G A A G G A A A A C C G G G$ GCCAAAAGAAAGAAAAGAAAGGAAACAGGCAGGAAAAAAAAC
 A G G A A A A A A A A A C G A G G A A A A G G A G GAGGCCCCAGAAG GC CA GAAAAAAGAGGGAGGGGCACCGGAAAGAGCCAGAGAAAAGGA GAGAAGGGAAAAGCCCCGGGGAACCAAACCAACCCGGAACCT A A G A G A A G G A A A A A GAAA $A \operatorname{AGGGAT} T A A A A G G G G G G A G A A A G G$ G G GCCA $C$ G $\operatorname{CA} A G A A A A A G G G G G A A G G C C G G G G G G A A G G A A G A G$ A GAG $A G G G G A A G G G A G A A A C C G G C C A A G A G G G G G G G A G A T X A$ A C C G G A A A A C C A G G A G G G G C A G G G G A A G G C C A A A G G A G G A A A AAAGAAAAAATAGGGAGAAGGCCGGAAAGGAGGAGGAACGBA A G A A A G G G GAC $\mathcal{A} G A A A G A G G G G G A C C A G A A G A A A A G G G A A A G$ G G G A A G G G GA C A G A A A G G A GAGGGGGGAAGGAAAA GAGAAAA $A C \subset A A G G A A A A G G G A G A A G C A A G G A A C G A G A G A G A A A A A A A G$ A G G G G A A GACACCAACCGGAAGAAGGAGGAGAAGGAAGAG GA G G G G G GACCAGGAGGGAAAGGCCAGGGGACCAGAGAGGGACG A G G G GA $\operatorname{A} G A A G A G A G A G A A A G A A G A G G G G G G A A A G A A G A A C A$ $A C C A G A G G A G G A A G G A G G A A A G A G G G A G G G A G A A A G G G A A A G$ G G G G G A A G G A G G G C C G G A A A A G G A A G G G G G CA G G G A G A G G G A C G GCCGGGGGGAGACGAATGAAACCAAAGGAGGGAAGGAACA G G GA $\operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{C} C A A A A A A A A A G G G G A A G G A A G G A A A A A A A A A$ $A C C A A A A C C G G A A G G G G A A A A A A G G C C G G A A A A A A A A G A A A A$
 G G G A A G G C C G G A A A A A A $\mathcal{A} G G G G G A A A G G G A C G A A A G G G G G G G$ GGGCCAGAAGGAAAAAAAGTTAGAGGAACAAAGGGGGGAAAC C G GAGGGCCACAAAAAAAAAAGGGGAAAAAGAAAAGGGGAAA CTACAAAACACAAAAAAGGAACAAACCGGAAGAAGAGGAAAC

A A A A A A A G GAAAAGGAAGGGGGGGGAAGGGGAACCCCAAAAG GGGCCAACCAAGGAAAAAAGGAAAAAAAAAAAACCAACAAAA $A C C G G G G G G G G C C C A C A G A C C G G G G A A G G A A G G G A G G G G G G G$ GAACCGACAGAAGAAAAGGGAAAAAGGAAGGAAAAGGAGCCG $G C A C C A A G G G G A G G G G G G A G G G A G G A A A G G A A C A A C A A G A A G$ A G GAAA A GAAAAGGACCAGATGAAAGAGGAGAGAAGAGAAAA A G G A A G G G G G G A G G A C C A A G G A A G G A A A A G GAAAAA A A G G C A GAACCAAAGAAGGAAAAAAAAAGGAGGAGGAAAAGAGAAGAA A A GCCGGAAAAGGAAAAGGGGGGAACCAGGGAGAGAAGAAAA AAAGAGGGAACGAGAGGGAAGGAAGCCAGAGGGAAGGACGGC AAAAGGGCCCCAGGGAAAAAAGGGGGGGGAAAGGGGGGAGGA GAGAGAAAAAGGGGAAGGAGAAGGGGGAAAAGAGGGCAACAA GAAAGAAGGAGGGAAGGAAAGAAGGAAGGAGAAGGGAACAGB A GAAACAGGAAAAAAGGAAAAAAGAGGGGAGCAGAAAGGCCG GAATTCCGGGGCCAGGGGAAAGGAAGGAAATAGGGGGAGGGG GAAGGGGGGAAAGGGGGGGCCGGAAGAAAGACCGAAAAAGGG A A G G G G G G G G G A A A A A A G G G G G G A A A A G GCC C G A G GA G GAA A G G A A A G G A A GAGACCGGGAAAGAAAAGAGAGAAAAAAAAGAG GAGCCGGAGCAAAAAGGAAGGAAAGAGAGAGCCAAGGAAAGA A A G A G A A G G G G A G A A G G A A G G G A A G G A G G A A G G C C A G G A A G A AAAAGAAGGGGGGGACCCCGGAGGAAAGGAAGGCCCCGGGGA A G G GA $\operatorname{A} A A G G A G G C C A A G A G G A A A G A A A G G A G A G A A A A A G G G$ GACCCGAGGCCAGAAAGAGGGGGGGAACCGGCAAAAAGGCCG GAAGGGAGGAGCACCAGAAAAAAAGAAGAAAGGGACCAAGBC C C C G G C A A C A A A A A A G G A A G G A A G A GAA A GA G G A G A A G G G G A A G GAAAAAGAAGGCCGGAAAAAGAGGAAAAGGAAAGGGGCCG GCCGGGGAAGGGGGCACAAGAAGAGGGGAGGAAGGACGGACG GCCGGTTGAAAGGCAACGGGAGAAACAGGAAAGGGCCAAAAA G G GAGGGAGAGAAGGAAAAACGAAGCCAAGGGAAATTAAAAA A G GAA A GAA A G G GAAAAAA AAAAAAAGGGAAAAAGGAACACCC CAAGGCCGGAAAAGGAAGAGGAAAAAAAAGGGACCAGGAAAA AAGAGGACAAAGACAGAGAAGGGAACCCAGGCCAGGGGAAAA A G GAGAAAAAGGAACAGAACAAAAGGAGGCCAAAAAAGAAAA A A C G A GAGGGGAGAAGGGGAAGAGGAAGACAAGAAGGAAGAG AAAGGAAAAAAGGACAAAAAGGAGGAAAAGAGAAGGAA GAAA ACGAAAGACAAAGGAGGGGCCGGAAGGGGGGGGCCAGACAGG AA $\operatorname{A} G A G A G A C A A G G A G A A A G A A A G G A A A A G G A A A C A C G G G G G$ G GATTGAGGGGCCAGAGAAAACCAGAGAAAAGGGGGGGGGGA G G GCC G G G G C C A A A A A A A A A A G G G G A A G G A A G G G G A A G G G G C C G G G G G G A A G G A A G G G G A A G G G G G G A A A A C CAAAAAAAAAAAA $A C C C C A A C C G G A A G G A A G G A A A A A A A A G G G G A A G G A A G G G G A$ A A A G G G G A A A A G G A A C C C C G GAAAAACCGGGGGGGGGGAACA G GAAGGCCCCGGAAGGGGAAAAAAGGAAAAAAAAAAGGGGAAC C G G A A A A A A A A G G A A G G G G G G G G A A G G G G G G A A A A A A C C A A A A A A A A G G A A A A A A A A $\mathcal{A} G G G G G A A G G A A A A G G G G A A G G G A A A A$ A $G G A A A A A A A G G A A G G G G G G G G A A G G G G A A G G A A A A A A A A A A A$ A A A A A G GAA A GCC G G G G A A GGAAAAAACCAAAAGGGGGAAA G G G GAACCGGAAAACCAAGGGGAAAAGGAAGGAAGGGAAAGGG GAAAAGGAAAAGGGGGGAAAATTGGGGGGGGAAGGAAAAGGA A A A A A G G G G A A A A G GAACCAAAAAAAAGGAAAAAACC
C C A A G G G G A A G G A A C C G G G G G G G G G G A A A A G GAA G GAAAAA A G G G G A A C C G G A A G G G G G G G G G G G G G G A A G G A A A A A A A A G G G G G G A A G G G G A A G G A A A A T T A A A A A A G GAAG GAA G G A A A A A A A $A C C A A A A G G G G A A A A T T C C C C G G G G A A G G C C A A G G G G A A G G A$ AAAGGAAAACCGGCCAAGGAACCAAAAAAGGAAGGAAGAAAG GAACCAAGGAAGGAAGGGGGGAAGGAAGGAAGGGAAAGGGGG GAAAAGGGACCCCACGGCAGGAAGGGGAAAGAAGGGAGAGAG GAAAAGGGGGGGGGGCCAAGGAGCCGGGAGGAGAAAAGBAAA AAACCGAGGGGAAGGCCAAAAAAAGACGGAAGAGAAGAAAAC

C G GAAAAGGAAAAGAAAAAGGGGGAAGGAAACCAGGAGAAAC A A ACCCAACATGGAGAAGGAAGGAACCAAGGAAGGAAGGGGA A G G A A A A G GAACCAAGGGGCCGATAGAAAGGGGCCAAAAGGA
 CAAGGGAGGAGAAAAGAAAAAGAGGAAGAAGAACAAGAAAAA GAAAAGGGAAAAAAAACCCAGAAAGAAAGAAGAGAGGGAAAA A A G A A A A A A A G G G G G CA $A \operatorname{GA} A \mathrm{~A} A A G G A A G A G A A A G G G G A G G A A$ GAAAAAGGGAACCGGGAAGAGAAGGAGGGAAAAGGAAAAAAG G G G A G G G G G C A G G G G G G T A A A C A G G C C A G G A C G G G A T A G G G A AAA A A G GAGGGGGAAAGAAAGAAGGGGGGAGACAGGGGGGGG G G G G G A A A G G G A A A C G GAAAAGGAAAGGGAAAAAAAGCA GAA A A A A A A A G A A ACCCAAAAAAAAAGAGGAGGGAAAGAGAGAGG $G G C A G G G G G G G A A G G A A A A C A T T A A G G A G A G G G A A A A G A A A A$ A G GCCAAAAAAGGAAGGAAAAGAAAAGAAAGAGTTAAAAGAA AAAAGGAAAGAAAAACAGAAAGAAGGGAAAGAACAGGGACAC A GAGAAGGAAGAGAGGAAGCGCAGAGGGGGGGGGGAACAGAA A C C A G A G G A A G G GAGGACGCCCCAGGGGGAAGCAAAA GAAAA AAACCAAGGAAAAGGAAGGAACCAAGGAACCAAAAAAGGGGG G G G G GAAAAAAAAAAAAAAGGAAGGGGAAAAAAAAGGGAAAG G G G A A A A G G G G G G G G G G G G A A G G C C A A G G G GAA $A \operatorname{G} G G G A A A C$ CAAGGGGGGAAAAGAACACAGAGAAGGAAGAGAGGAAAAGGG AAAAGGGCAAGAAGAGGAAGGAACCGGCACCAGGGGGGAAGA G GAGGGGAAGGAAAGAAAAAGGGGAGGCCGGAAAAAGAGGGG GAAGGGGGGAAGGCCAAAGAGCACAAAAAAAGGAAAAAAGGG GA $\operatorname{G} A A A \operatorname{A} C C G G G G A G A G G G A A C C C C G A G G G G A A G G G A A A C C G$ G G GCAGAAGGAAAAAGGAAAAAAGGGGAAGGGACCAGGAAGC CAAGACCGCCCAAGGAAAAGGAAGGCCGGAAAAGGAGGAAGA G G GCCAAGAGGCAAGGGAACCCCAGGGAAACGGAGGGAGAAA $A C C A A A C A G G G A A A A A A G G G G A A A G A G A A A G G A G G T T A A G A A$
 G G G A G A G G A A A G G G G G G A A G G C C G G C C A A G GA G G G A A G G A A G G G GAAAAGGAAGGGGGGGGGAAAAAGAAGAAGGAA GGGGGGG
 G GAGAGCAGGGGGGAAGGAGGAGCCGAAAGGAGAAAAGGGGG GAACCGGAAAAAAACCGAGAAGGAAGGAGAGCCGGCCGAABA G G A A G A G A A A A GA G GAAC CAAGGAGGGGGACAAGGAACAAAC CAAAAGACAACGAAAAGGGGGCCACGGAAGGGGGGCAAAGGG GAGGAGGAGGGGAGGGGAAAGGGGAAAGAAGAA G GAAAGGGA GACAAGGAGCAAGGGGGAAGGAAGGAGGGAGGGGAGAAAAAG GAACCGGAAGGGGGGGGAAGGCCGGGGAAAAAAAAGAAAAAA A G GAA A G C C G G G G A A G GAACCGGGGAAGGAAGGGGGAAAAAA A G G A A G G C C T T G G C C C C G G C C G G A A G G G G A A A A G G G G G G G G A $A G G G G A A C C G G G G A A A A G G A A G G A A A A G G G G A A C C G G G G G G A$ AAAGGCCGGGGAAGGAAAAAAGGGGGGCCCCAAAAGGGGCCA AAAGGAAGGCCAAGGAAAAGGAAAAGGGGGGGGGGAAGAGAA A A A G G A A C C A A G G G G G G G G A A A A G G G GCCCCAAAAAAAAAAA A A A A A C C A A G G G G A A G G A A A A G G G G G G A A A A A A C CAAAAAA A G G GCCAAGGGGAAAAAAGGAACCAAGGGGAAAAGGTTGGTTA A G G G G G G A A G G A A G G G G G G G G G G A A G G G GAAAA A G G G A A G G A $A C C G G G G A A C C G G G G A A G G A A A A G G G G A A A A G G A A G G G G G G G$ G G A G A A A G G A A G G G G G A A G G G G G A A A A A A GCGGA G T T G A A C A AAAGGAAAGGGGAAAGAAACCAGGGAAACAAGGAGAGAGGAA GAGACAACCCCAAAAGGAGAGCCCCCCAAAGCCAAAAGGGCG AAGAGGAACGGAAAAAAAGAAAACCGGAAAAAAAAG GAGACA CAAAATAAGGACCGGGGAAAAAAAAGGGGGAGAACAGAGAAC A A G A G A A G GAGGACCGGCCTAGGACGAAAGGGGAAAGAAAAA G G GCC GAGGGGGGAAAAGGAAAAGGAGAAAGAAAAAACAAGA G A A A G GAAAAAGGCCCCAAACAAAAAAGAAGAGGAAAGAAGG G G G G G A G A GACCAAGGGGGGGAGAAGAAGGAGAAAAAGAGAG

GAGAGAAGGCCAAGGGAAAGGGGAAGGCCCCAAAGCCAGGAC A G GCC G G A A C A GAGGAAGGCAGAAGAAGACCGGGGAAGGCCA AAAGGAGCCGACCACCCAAAAAAAAGACCGGGGAACCAAGGC CAGAGAAAGTTGGGGGGGGGGAAGGAAGGGAGGGAAACAAAG A A A A A ACAACCAAGGAAGGGGGGCCAAGAACAAGGGAAAGBA GAGAAGAAGGGATGGGGAGAAGAGAGAAAACAAGAACAGCAG A GAGGGGGGAGGGAAAGGACAACGAGGCCAACCAAAAAAGGG GACCCCCGGAAAAAAGAGAACAAGAGGAACCGGGAGAGAAAA
 G G G G G A A G A G A A G A G G G G A A G G G G G G G C C G G C A G G G G A G G G G
 G G G A A G G G GAAGGCCGGAAGGAAAAGGAACCCCAAAAGAAAG GAAGGAAGGCCGGGGGAGGCCGAAAGGGAGATAACGAAAAAG GAATTAGAAGGCCGGGGTAAAGGCAGGAAAGGGAAAAAAAAA AAAAAAACCGGGGCCAAAAGGAAAAGGAAGGAAGGAAAGGGG AAAGGAAAAGGAGAAAAGGAGAAGGGAGAAAAGTTAGAAAGAA A G GCGGGAGGGGGGGAAAGCAGCAAAAGGGAACAAGAAAGGC CAAAACCAGAGAAAAGAAGCAGGAAGGTTCCGACCCCAAGGG G G GACCCGGGAAAGACCAGCCCAGGAAGGGGGGGAAGAAAGA G G G A C A G A G A G G G G G G G G G A G A G G A A GAACCAACA G G G A G G G AGGGGGGAAACGAGAGGGGAGAAGGGGCCGAGGCCTTGGGAA A ACGGAAGGAGAGAGGGAAAACGAAAGAAAAGGCCGGGAAGAA
 ACCAGCAAGAAAGGAGGGACAAAAACAAAGGGGGAGGAAACB GAAGGGGAAGGACAGAAAGAAGGAGCCAAGAGGCCAAGGGGG GAAAACAAAGGGGGAAGGGAAGGAAGAGGCAGAGGAAGAAAG A G GAA A G G GAAAAAAAAGGAAAGAGGGGAGGGGAGGGGAGAA GAAACAAGGGGAGAAGGGAAGCAAAAAAAGGAGGGAAAAAAA GAGAGAACCGACCGGCCGGAAGGAAAAGAGAGGGGGGGAGGG AGGAAAAAAGGGGAAGACCCCAAACGGCCGGACGAGAAAGGG G GAGGAGCAGGGAAGCCGGGAACGGAGAAGGCCAAATAGAAC C G G G G G G A A C C G G A A G G G G G G G G A A G GCCCCCC CAAAA G GAAA CACAGCCAAAAGGGCAGGAGGGGGGAAAAAAGGGGAAAGGGA A A GAAAAGGAAAAGGAAAAAACCGAAAGGGAGGAAAAGGGGG GAAGGGGCAGAGAAGAGAGAGGAAGGAGGGGAAGAAAAAGGG G G GAACCGGGGCCCAACAAAGGGTAAAGAAGAGGAGAAAGGG GAAGGGAGGACGGAACCGGGGAGGGGGAGAAGAGGAGAAAAA A A GCAACAGAAAAGGAATAGGGGGGGGAGGAAGGGAAAACAG GAAAAAAGGAGGAAAAAGAAGAAAAAGAGAGTTCGGGAACAA A G G A A C C A A A A A A C C G GAA $A \operatorname{GAAAGGGAAAGGACAGAAACABA}$ C GAGACAAAGAAGGGGAGAGGAAACAGAAACGGAAGGGACGT
 G G GAAGGGGAGACTAAATTGAAAAAAGCCGGAAGGAACCGGA $A C C A A A A G G T T A A G A A G G A G G A A G A A A A G G A G A C C A G A G G G G$ A GAGGGGAAGAAAGAGAAAAGAGAAAGAGAAGGGGGAAAAAC A G GAGCCAAAAAGGAAAAGGGGGAAAGTTAGCCGGAAGGGGA A G G G GACCCGGCCGGGAAGAAGGAAGGGGGGAACCAGAGGGA G G G GAGGACAAGGCCAAGGAAGGAAGGAACCAGGAAAGAAAA AAA A GAAA A A A A A A G G G GAGAGGGGAGGGGAAA G GA G G G G A A G

G G G A G G A C G G A A G G G A G G G G G G G G G G A GA $\mathcal{A} A A A A A G G A A A A G$ GAAAACCGGGGGGGGACGGGACAAGGGGGCCGGAAAAAAGGA A A A A A C A G A T T G A A A A A GAAGAGAGAGGAGGCCAAAAAAAGA A AGCCGAAAAAGAGGCCAAATGGAACCAAGGGGAAGGGGGGG GAAAGAAGGAGAAAGACCAGAAAGAAAAGGGGGAGGAAAAAA A A G G G G G G G A C A A A A A $\mathcal{A} G G G G A A A A A G G G A A A G G G G G G A A A C$ A G GCCCAGGGGGGCCGGAAGACCAAAAAAAAAAGGAAGAGAG G G G G G G G A C G A GA G C G GAAAAACAAAGAAAAACCGGG GA GAAA $G G G C A A A A T G G A G A G G A A G C C G G A A G G G G C C A A G G A G A A A G A$

GACGACGAAGGAGGGGAAAGGGGGGGGCGGGAAAGGGACGGA A A A G GAA $A \operatorname{GAA} C \subset A A C C G G A A A A G A G A G G G A A A A A A A A G G G A$ A A A A G A A A GCCGGGACCAAGGAAGGGGACGAAAGGAAAAAAG GAAGGAAAGGAAAAGGGGAGGGGGGAGAAAAGGAAGGAAAAA A A A T T G GAGAA G GAAGGGGAAGAGAGGGGCGCAAGGGGAAGA G G A A G G A G A A G G A G G G A G G A G G G C A A A G G A A A G A A A A A G G A G G G G A A G G G A G G C A G G A G G G G G G A G A A G G G G C G A A G A G G G A G G A A G G G GACAGAAGGGGAGGGGGGAAGGCCGGCAGGGGBAAGA GAGCAGGGGAAAAAGTTAAGGCCAGGAAAAAGGGGGAGAGAA AGGGGAAAACCAGAAGGAAGGAGAAGGACGGAGAGAGGGCCG GAGGGAGAAGGGGAGGGAAAAAGAAAACACCCCAAAGAAAGG $G G G T T A A G G G A A A G G A G C C G G A A G A G G G G A A A A A A G G A G G G A$ A GAG G A C A G G A A G G A G G G G G A G G A G G A C C G A G G G G A C A A G G C CACA $\operatorname{C} \boldsymbol{A} G A G G G G A G C A G G A G A G G G G G A G A G G G A G G G G A A A G G A$ A A G G A A A G G G G GA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G A A A A A G G G A G G G A C C G G G G A A G A G$ A G GAGGGAAGGAAAAAAAAGGGGAGGGAGAAAGACAAAAAAG
 G G G G A G G A G G G G G A A G A A A A GAGGGCCAAGGAAAAAAAACAA A G G A A G G A A C C G G A A G G T TAACCGGAAGGGGGGAAAAG GCCA A G GCCGGAAAAGGGGACAAGGAAGGAGAAAAGAGAGAAGAAA GAAAAAGCCAAGAGGAGGGGAAGGGGGGACCGGGGAAGAAAA G G G A A A A A A G G G G G GAAGGGGCCAAAAAAAAAAGGAAAAACT T GCA C GACCCCACGGGGGGAAGGCAGGAGAAAAAGGGAGCCC CAAGGAAGGAAGGGAGGGGAAAAGGAAGAACAAAAGAAAAAG GCACCGGAAAGGGAGAGGAGGAAAAGGAGGGAGCAGAAGAAA A G GAGCACAAGGGGAAAAACCCGACAAAAAAACAAGGCCGGA AAACCGGGAGAAAAGGGGGGGGGGAGGAAAGGGAAGACAGGG A A A G A G G A A C C C C G G G CAGATGAGGGAGAGAACA GAAAAGC G AAAGGCAGAAGCCGGGGTAGGAAGGGGAAAAAAAAAAAAGEG GAAAAGGAACCAAAAGGCCGGGGAAAAAAGGGGAAGGTXAAC CAAGGGAAGCCTTACAGACAAGGAGAGAGGAAGAAGAA GA GA
 GCAAGGAAAAAGGCCGAGAAAGGGGAAAAAACCAAAAAAAAC CAAAAAAAACCAACAGGAGAAAACCCCAAGGAGAGAAAGGGG G G G G GCCGGAAGGGGCAAAGGAAAGAGAAAACCGAGAAAAAC CAAGGAAAAAAGGAAAACCAGGGGGCCGAAGGA GAAAGAACBG GCCAGAGGGACGGAAAGAAAAGAAAGGAAGACCACGAAGCCA A A A A A A A GAGGGGAAAAGAGGAACCGGGGGGAAAAGGAAAAA A A G G G A G G A G A A C G CAA $A \operatorname{AGAAAAAAAAAGAGAAAGAACGGGGG}$ GAAGGGGAAAAGGCCGGAGGGTACCGGACAAGAAAAGGGGAG GAAAGGAAAAAGGGGGGGGAAAAAAAATTGCGAGGCCAAAGA A A GACAAAAGAGGGAGGAGAGAGGGCCGGGGAAGGAACAAAA A A A A A A A A A A A G A G A A A A A A A A A A A G G G GAGGAATTGGGGA $A C C A A T T G G A A A C G G A A G G G G A A G A G G A G G A G G A A A G A G A G A$ G G A A G A A A G G A GACCGGGGGAAAGGAAAAGGAAA GAACCGGC CAAAAAAGGAAAGGGAAAAGGGAGGAGAGCCAAGGGGCAAAA A GACAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGAAAG GAAA A A G G GAA $A \operatorname{A} G \mathrm{G}$ GAGGGGAGAAACCAAAGCAGGAAGACCA C GAGAGAGAAAGGGGGAAACCAGAAAAAAGGAAGGAACAACG A G G G G A A G GAA $A \operatorname{GGGGAAAAAAACAAAAGGGGAAAGGCCAAGGG}$ GAGCGCCGGGCGCACAAACAGCCGGCGGGAGAACCCCAAGGG AACAAAAGGAACCGGGGAACAGAGGAGGGGGAAAGAAAAAAA A A A C C G G G A A A A A A A A A A A GAGAGAGGGGCCGGGGACCCCC G AA $A$ A $G$ GATAGGGGAGGGGAAAGGAGCAGGTTACGGGGCCGGG
 GAACAGGGGAAGGGGAAAAAAGGCATAGAGAAAAGAGAAAGG G G G A A A A A A A GAACCGGGGGAGGGGGGCCAAAACCGAAAAAA A G G G G A A G G A A A A A A G G G G A A A A C CCCCAAGGAAAAGGAAAAA A G GAAAAAAAAGGAAAAGGAAAAACCCGCGGACAGCCAGGAG

GAAGGAGAAAAGAAAAAAGGGAGGAGGCAAAGGGGGGAAAAG $A G G G G G A G G G G A A A C C A A G G A G G A C G G A A G G G G G G G A A A G E G$ G G G G G G G A C T T G G GAA A A A A GAAAAGACAAACCGGGGAAAA G AAAAAGGAGAAGGAAAAGGAAAAAAGGCCGGAAAAAAGAAAC C G G G G G GC CAA $\operatorname{C}$ G G G A A A A A A C CAAAAGGGGGGGGAAAAAAC CAAGGGGAAAAAAAAGGAAGGAAAAGGAACCGGGGCCAACAG G G GCCAACCGGAAAAGGGGAAAAAACCAAGAAGCCGAAAAAA GAGGAAGAAGAGGAGGGAGAAAAGGAAGGGGACAAGAACGAG A A A G GAAAAGGCCGAGGAAGGAAAATAGAGGAGGGCCGGGGA AAAGGGGAAAAAGAGGGAACCGGGGAAAGGGAAAAAAGAAAA GAGCCGAAAGGCCAGAAGGGAAGGGAAGAGGAAAACCAAGGG GAACCGGGGGGAAAAGGGGAAAAAAAAAAAAAAAAAACAA GA A A A G G G G G G C C G G G G C C A A A A T T G G A A G G A A G GCC G A A G G A A A C C A A A A G G G G G G G G G G G G G G G G A A A A G G G G G G C C G A A G G G C
 G G GAA $A \operatorname{GAAA} G \mathrm{~A} G A A G G A A C C A G C A A G T T A A G G C C G G G A A G C$ CAAGGAAAGAAAAGGAAGGGGGAGAGACAAGAGCAAGAACAC GAACCGGGAACGGTTTTGGATCCGGAAGGTTCCAAAAAGCAC CAGCCGAAAGGAAAAAAACAAGAAAAGAGCCCAAAGAAAAGA
 GAAAAAGCCACCAGGAAGGAAGGGACCAAGAAGGACCAGAGA AAAGGAAAAGGAAGGAAGAAAAAGGAGAGAAGAGAGAAAAGA GAGGGAAAAGGAGGACCCCAAGGAAGAACGACCCCBAAAGGG G G G G GCC G G G G G G A A A A A A C C C C G G G G A A C C G GAA G G C C G G A A A A G G A A A G A A G G G G G G A A G G G A A G CAGAG GAA A A A CA A A G G GCCGGCCGGCAACAGAAAAGGCCGGGGGGACAGAAGAAAAAG G G GAA $A \operatorname{GA} A G G G A G A G A A A A A A G G G A A G A A G A A A A A G G A G G G$ GAGAATTGGAGCAGGAAAAGAAGGGGGCCAGCCAAGAAAABA A A A G A A A A A A T G GACAAAAAGGAGGAAAAGGGGAAGGGAACA GAAGAGGAAGGCAAAAACCGGAAGGAAGAGGGGGGAGAGGGA
 A G G G G G GAACCGGGGAAAAGGGGGGGGGGGGAAGGGGAACC G GTTGGAACCGGAAGGAAGGGGAAAAGGAAGGGGGGGGGGGGG GAAAAAACCCCGGAAGGGGAAGGAAGGGGGGAACCGGGAAAG
 G G GCCCCGGGGAAAACCGGCCAAAAGGCCGBAAGGAAGGGGG GAAAAGGAAAAGGGGGGGGAAAAGGGGAAAAGGAAGAAAGGG G G G G G A A A A A A G G A A G G G G G G G G G G G G G G G GAAAAAAA G GAA $A$ GAAAGCCAAAAGGGGAAGGAACCAAGGGGCCAAGGGGCAAAA A A A A A G G A A A A A A G GAA $A \operatorname{GAAAGGAAAAGGAACCGGAAAAAAG}$

 G G GAAGGAACCAACCGGCCCCAAAAAACCGGAAGGGGAAAAG $G C C A A G G G A A A G G A G C A A A A A A A G G A G G G A G G A G G A A A G A A G$ GAAAAAAGGAAACGGGAGGGAAACACAAGAGAGCCAGGGGGG G G G G GCCAACAAAAAAAAAGGAAGGAAAGGAAGAGACGAABA A G G G A G A G A G A G A G G G A G G G A A A A A G G C C A G G G G A G A C C A A G
 GAAGGAAGAAGGGAAGAGGCGGGGGAGGGAAGGGGAAGAAAA AGGAAAAAACCAGAGAAGGAAGAAAAACCACCCAAGG
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 C G G A A G G G G G GCCAA $\mathcal{A} G G G G G G G G G C C A A G G C C A A C C G G G G G$ GAATTAAAAAAGGGGGGCCAAGGAAGGGAGAGGGGGGGAAGA GAGAGGAGACAGGAACCACCCAGGAAGACGGGAAAABGGGGG GAAAAAAGGGGAGAAGGGGAACCAAAAGAGACAAGGAAAAAA

GACGAAACAATAGACAGAAAGAAGGAAAAAAGGCGGGGACCG A A A A G G GCCGGAAGGAAGAGGAAGGGAGAAAGGGAAGAAAAA
 GGGAACCCCAACCAAAAAAGAGGCCGAGGAGAACCGGAAGAG G G G GAGAAGGAACAAGGGGAAAAGGGGAAGGAGAACAAGAAG A G GCAAAAATTACGGAGGGAAAGAAGGAAGGGAABAGCAGAG G GAAAGGGGGGAAGGCACCCCAAAACAAAGGGGAAGCAAGAG GAACCAAAGAAGGAAGGAAGGGGGGAAAAAAAAACGAAAAAG G G A A G A A A A A A G A G GAGGGACAAAGGGAGAAAAGGAAAGGAG CAAGGAGAGAGCAAAAAGGAGGAGAAGGCGGAGAAGAAGCCC CAAGGCAGAAGGAGGCCAAGGCCGGAGAAAAAGAAGGGCGGA C G GCACCCCAAAAGGAAGGAAAAGGGGAAGGAAAGAAGAGAG G G G G G A G G A G A GA $\operatorname{A} G A A A G C C C C G G A G G G G G G G G G A A G A G A A$ C TAGAAAAAGGCAGGAAAAGGGGAAAAGGGGGGGGAAAAAAG $G C C A G A G G G A A A G A G G G C A G G G G A G C A A G A A G G G A G G G G G G G$ GGGCCAAGGGGAACACAGAGGAAGAAGAAGGGGAGAGAACAG A A GACAGAAGAGAAAAGAAAAGGAAAGGAGAACACGAAGGAA
 A G GAA AGAAAACCCAAGAAAGAAAGAAAAAAAAGGGGGGGGG G GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGACAGCACCA AGGAACCGGGAGGGGAAAAAAAGAGACCCAAAAGGAGGATAC C GACCAGCCAGGGGGGGAAAAGGCCAAGGGAAGACGAGAAAC $C \subset C A G G G C C A A G G G G G G G G G G C C G G A A G G G G G G A A G A A A A A G$ G GAA A G G G GAA A G C CAA A GAGA G G G G G G GAA A A GAAC G G T T A A A G G G A A A A CAAGGGCCGGGGCCAGGGGGCAGGCAGGACAAA GGGAAGGCCGGAAGGAAGGGGAAAAAAAAGGCCGGGAAAGAA AAAGGACAGGAAAGGAGAGAGAGAGAAGGAAAGAGAGAGCAC C G GAGAAGAAGGGCCAAAGAACCGCGAAGAAGGAAAGGGGGA $A C C A G A A G G A G G G G A G G A G G G A A G G G G A A C A G G A C A G G G G G G$ $G C C G G G G A A A A G G G G G G C C G G G G A A G G G G C C A A G G G A A A G G A$ A A A A A A A G GAA $A \operatorname{GGGGAAAAGGAAGGGGGGGGGGAAGGAAAAA}$ AAAAAGGCCCCCCGGGGAAAAGGGGGGAAAAAAAGGGGGGGG GAACCAAAAAAAAGGAAGGGGAAGGAAGGGGGGGGAAAAAAG G G GAA $A \operatorname{GCCA} A A A A A A A A A G G G G A A A A A A G G G G G G G A A A A A G$ G G G A A G G A A A A G G G G A A A A $\mathcal{A} G G G G G A A A A G G G G G G A A A A G G C$ CAAGGAACCAAAAGGGGGGAACCGGGGAAGGGGGGGGGGGGA AAAGGGGAAGGCCGGAAAAAAGGGGGGAAAAGGGGAAAAGAA AAAGGAAGGAACCAAGGGGGGAAGGGGAAGGAAAAAAGGGGC
 AAAGGAAGAACAGAGACGAGAAGAAAAGCAAAAAAGGAAGAC A GAGAAGCCAGAGGGCCGGAAAAGGGGAAAGGAGGGGCAAAG A GCG $C$ G G G C C G G G G G G A G G G G G A A G A C C A G G G A G A G G A G A G G A A GAAGAGGAGAACGACAGGAGCCGGGGGAATGAGAACAAAGA A GAGGACGGCCGAAGAACAACGGGGGGGAGGGAAAGGGGGAG $G C C A A A A C C A A A G A G A G G A G A G A A A A G G A A A A A G A A G G C A C C$ C G A A C C A A GAAAAAAGAGGGGGGAACCACCCGAA GAAAGGAG GAAGCGGAAAGCAGAAGGGAGCCAAGGAAGGAAAAGAACGGG GAGGAGGAGGGGGGGCCAAAAAAAACCAAGGCCGGGGGGCCG G G G A A A A G G A A G G G G G G G G A A G G G G G G G G C C G G G G G G C C A A G $G C C A A A A A A G G A A G G A A C C C C G G G G A A A A C C A A C C G B A A G G G$ G G G G G G G A A G G A A G G C C G G A A G G G G G G A A A A A A G G G G G G G G A A G GAA A G A A A A G GAAGGAAGGCCAAGGAACCAAAAGGAACAG G G G G GAA $\operatorname{G} G A A A A A G A A A A C C A A A A A A A A A A A A A A G G G G G G G$ GAAGGGGAAAAAAAAGGGGAAGGGGAAAAGGAAGGGGCAAAA A G G G G G G G G G GAAAACCAAGGCCGGAAGGGAAGACAAGAAAA A A A A A GA GAGAAAGGGAGGAAAAAGAAAGGGGAGAAGGAAAG GAAA $A$ A A $A G G G G A G G A G A A A A A G A G G G G G A G A G G C A A A G G G G G$
 G G G G GAACAAAAGGGAGGGGGCCCCCCGAGGGAGGGGGAACA

AAGGGGGGAGAAAAACAAGAAAGAGGAAAAGAAGGAAGAGGA AAAGGAAAGAGAGAAAAGGAGAACCAAAACAAAGAAAGGGGA C GAAAAAAAGGAAAAAGGGGGAGGAAAAGGAAGAAAGAGGAA C G GAAAAAAGGGGAGGGAAGAAAAGGGAGGGAAAAGACAAAA
 G G GAAAGGGCAGGGGAAGAGGAAAAGACCAAAAAAGAAGAGA GAGGGCAAGGAGAAGAGAAAAAGAAGGAGGGAGABACAAGGG A G GAGGGGGACAGAGAAAAGGAAGAGAGGGAAGACGAGAAAG GAGAAGGAAGGGGCCAGGAGGGGAAAAGAAAAGAGGGAACAG AGAGAACAGGAACAGACAGACAGAAAGAAAAAAAAAAAGAGG ACCGGGGGGCCAACACCAAGGAAGGGAAAAAAACCAGAAGGG GAAG $A \operatorname{A} A G G A A C G G G G G G G G G G A A A C A G A G G G G A C C C C B G A G G$ GAAACGGAGAAAGAAAAAAGGACGAGACCGGCAGGAGAGAAA G GAA $A \operatorname{G} G A A G G A A G G A A G G G G A A G G A A G G C C A A G G G G G A A A C$ CAAGGAAGGAAGGAAAAAGCACAGAAGGGGAAAAAGACCGAA A A A A A A A G GAGATAGCGGAAGAAAAAAAGGGAAAGAAGAGCC CAACAGGAGAGGAAAAAGGAGAGGACAGAGACAGAAAAAGAG G G G G G A A G G G G A G G A A G G A A G A A A C G G G G G G G G G A G G A G G A G GAAAAGGGGAGGGAGAGAAAAGAAAGAAAGAGGGAGAGAGAA A G GAA A GCCAGAAAAGGCCGGAGAAAAGGGACAAAACGGGGG A A A A A A A A A A A G A A G GAA A GTAAGGGAGGGAGGAGGGAAGA A GAAAAAAAGGAAAACCGAAGAGGGAAGGGGAAAACCAAGAG G G G G G A A A A G G G G C C G G G G A A A A G G G G A A A A G G G G A A C C A A G G A A A ACCAAAAAAAAAACCGGGGGGGGCCAAAAGGAAAAGGG GAAAAAAAAGGAAAAAAAAAAAAGGAAGGAAGGGGAAAAGGA A G G G G G G G GAA $A \operatorname{GGG} \operatorname{GAA} A A G G C C G G A A G G A A A A G A A G G G A G G$ G G GAA A A G G G G G G A A G GAA $A \operatorname{GAAAAAAAAAAAGGGGAAAAGGG}$ G G A A C A C A C G G A C A A G G G G A A G G G G C C A A A T G G G G G A G G A A A
 CAAAAGGCCAAGGGAAAGGAAGAAAGGAACCGAGGAAAAGGA A A A G G A A A A A A A A G G A A A A A A A ACCCCACGCCAAC GAAAGGA GAGGAAAAGCAAGGGAAGGGGACGGAAGAGGTTCCGAAAAGAC CAAGGGGAACCCCGGGGGGAAAAGGGGAGTTAGGAAAAGGAA A G G G G A C C C A G G G A A G G GACA GAAAGGCCAAGGGGAAGAA G G
 GAAGGAAGGAAGGGGAAAAGGAAAAGGAAGGAAGGAAAAACA AAAAAGAACGGGGGGGGGGAGAAGGCCGGAAAGAAAGAGAGA A A A G GAA $A \operatorname{AGGGGGAAAAAGGGGGAAAAAAGGAAACAAGGGGG}$ G G A A A G G G A A G A A G GAACAAAGAGGGAAGGCGGAAGGCACAA G G GCA GAGGCAAAAAAAGGGGAAAGGAAACCAGGGGGGGGGG GAAAAAGAAGGGGGGAAGGGGAAAAGGGGGGGGGGCCAAAAG
 GAAGGGGGGAAGAAGAGAAGAGAAAAATAAAGGGGACAGGAA GAGGGGACCCCGGAAGGAGGAAAGGAAGGGAAGGAGGGAGAG GACGGAAGGAGAGGAAAGGAGCCAAAAAGCCACAACCAAACA A G G G A A G G A A A G A A A A A A G G G G G A A A A A A A A G GAAAA G G GAC AAAACCCGGCCGAGACAAAAAAAAGACAGGAGAAGAGATAGA
 G G GAAAAAAGGGGCAAAAGAGAAACAAAATTAAGGAGAGCCA A G G A G C C A G G G A A A G G A G G A C G G G G A A G G G G G A A G A A
A A G A A A G GAA $A \operatorname{A} A X C C G G G A C C A A G G G G A G G A A A G G G G G A G$ GAGCCAACCAACCGGAGCCCCCCGGGAAGAAGGGGAACAAAA
 GAGGGTTAGAAGAGAAGAAAAAAGAGCGGAAGGGGGAAAAGG $A G G G G G G G G A A G G A G A A A A A G A G G G G G G G G G G G A G G A A A A A G$ G G G A A C C G G G G A A A A A A A G T T G G G G G GCCAGC CA G CAA G G G G GAAAACCAAAAAACAAAAAGGGGAGGAAGAGGGAAGGAAAAA AAAGGGGAACAAGAGGGAGAGGGAGGGGACAGA GGACGAGGG AAGGAAAGAAGGGAGAGAAAGAGGGCCGGAGGAGGAAAAGGG

A GAGAAAACGGAAAAAGGGAAAAGGAAGAGAGAACAAAGAAA G G G A A GCGGGGCAGGGGGGAAGAAGAAAAGGAAAA GAAGGGG G G G G A A T G A A G A A G A G A T T G G G GAGGGGGAGGACA GAAAAA $A$ GTTCCGGAAAAGGAACCGGCAACGGAGGACAGAAGGGAACAA GAA $A \operatorname{GA} A A G A A A G G A A G A A A A G G A C A G A A G G A A A A A A G G A C A$ G GACGCAGGAAAAAAGAAGAAGGGGGGAGAAGAAA GAA GATC GAAAGCCAAAGAGAGAGACAGAAGGAAAAGAAAGGGGAGAAG AAGACAGCGGGAGGAAGGGAAAAAGGGGGGGAGACAAGAAAA ACC G G A G A G A A A C G G G G A G G G A G G G G G A A A A G A G G G G G G A A T TGGAAACAAGACCAAAAAAGGAGAGAAAGACACAGGGGGGAG A A CAA $A \operatorname{G} G A A G G G A A G G C C G G A A A G G G G A C G G G C C A A G G C C G$
 G GAGAAAGAAAAACAAAACAAGCTACCGAAAGAAAAGCAAAG GAAGGGGGGAGAACCAACCAGGGTAGGCCCCCCAAGAAAAAC C G G G G A A G G G G G G A CAGACACAAGACCGGAAGGCCAAAAGAA GAAGGGGGGAGGACCAACCAAAGATAAAGAGAAAAAAGAACC A A G A A GAA $A \operatorname{AAGCCAAAGGGCCAAGAAGGAGGGGGGAACACAA}$ $C G G C C G G A G G G A G G G A A A G A A A A C C A G G G G G G G G G G G A A G A A$ A GAGAAAAAAAGGAGGGAAGAAAACAAGGAAAAAAAACAGGT A A A A G A A A C G G A A G G A A A G GAC G C A A A A A A A A A G G G A A A A A A A G GAAAAAATTAAGGGAGAGGAAGAAAGGAGAGGAAATTGGG G GAAAAGGGAAAAAGGGAAAACAAACCAGGCAAACCCAAAAG GAAAAGGGGAATTGAGGAAAAAAGGGGCCCCAGAGGGGACAC

 GAGGGGAGGAAAAAAAAAGAACCAAAAAAACGAGGGGGGAGG ACCGGGGAGCCGGGGAAAAGGAAAAGGGAGAACGACAAAAAG G G G G G A G C C G G G G G G G G C C G G G G A A G A G A G GAA A A A G A A C C G GAATAACGGACGAGGAGAGGAGGACGGGGAAAAGGAACAAAG G G G G GACGAAGGGGGAGAAGAGAGAGGGGACCCAAAGAGAAA A G G G G G G T A C C G A G G A A T T G G A A A A A A A C A GACAAAAA A A A A A GAAAAAAAGGAAAGAAAACCAGAGGGGGAGAGGGAAAAAAG
 A A A A A G A A A G G C A $\mathcal{A} G G G G G C C A G G G G A G G A G G G G G A G G G G G G$ A GAAAGGGGCCGGAGAGGAGAGGGAGACCAAAGAGAAAAAAA A G G A G GAG G G A G G A A A A G A A A A A A GAA G GACAA A A G GAAA A A AAGAAACGGAACCGGAAGAAAAAAAGGAAAAAACCAAGGCAG A A GAAAAAGGAGGAGAAACGGACAAAAGGGAGGAAAAGAAAA A A A G A C C A G G G A T G G A A G A A G G C G G G G G G G G C A A A G A A A C A G
 AAAAGGAAGAAGAAGACGGGGGGCCAAGGAAGGCCGAGAAGG C G G G G A A G G A G G A A A G G A A A A G G G G C C G A GA G G G G C C G G G G A AAAGGAAGGAGAAGGGCGGGGAAGGAACCACAAGAAAAAGGG GACGGGAAGCAGGAGAAGGCCGGGGGGAAGGGGGGGGGAAGG GAGGAAGAAGAGGAGAGGGACCCGGGACCAGGACCAAGAGAA AAAGGCCAGATGAACAGAAGGACACAACCGGGAGBAACCGGG GC G G G A A A A A A G G C C G G G G A A G A G G A A A A A G G G A CA G GAA A A GAGAACAGGGGGAGGGAGGACAGGAGGAAAAGGAGAAAACAA A G G G GCAAAGGAAAAAAGGAAGGAAAAGGGAAGGGAAAAGAA GAAAGAGGAAAGGGGAAAAAAGGGGGAAAAGAAGGGGGAAAA G GAGACCGGAAAGGAAGACGCGGAGAAGGCCGAAAAAAACBG CAAAAGGAAAAAAGGACGAGGACGGGAGGGAGGCCAAAAAAC
 G G G A A G G A A G G A C A A G A A A A A A A GAGGAGAGAGAA G GAA G G C CAAAAAGGGAAAAGAGGAAGGAAGACCGGAGAGGAACAAGAG GCAAGGAGAAAAAAAAAGGAGAAACGCCCGGAAAAGAAAGGA A A A A A G G A A G G G GAA $A \operatorname{AGGGAAAGGAGAGAAGAGCCGAGAAAG}$ G G G GAA A A A A CAA $A \operatorname{ACGGAAGGAACCGGAAAAAAGGGGGAACB}$ $A \subset A G G A A A A A A G G G A A G A G G G A G A G C C A G A A A A G G G G A C G A C$

C G GAACCAAAAGGGGAGGGGGGGGAAAACCCCACCGGGGACG GA GA G A A A GAACCAAGGGACGCAGAGGGGAACCAAAAGGGGA A G GAA A G A A A A C C C C A A G G G G G G G G G G A A G G G G G G A A A A G G C $C G G A A G G G G G G A A G G G G A A A A A A A A G G G A A A G G G G A A A A A A G$ G G G G GAACCAACCGGCCCCGGGGAAAAGGGGAAGGGGCCGGC C G GAA $\operatorname{A}$ GAAAAAAAAAAAAAAAAAAAAGGAACCAAAAAAGEC CAA $A \operatorname{G} A A A A A A A A A A A G G G G G A A G G G G G G G G G G G G C C A B A A A$ AAACCCCGGCCGGGGGGAAAAGGCCAATTAAAAAAGGCAAAG G G G G G G G C C A A G G A A A A A A A A A A G G G A G G G GA G G G A A A A G G C $C G A A A C C G G C C A A G G A C G A G G A A G G G A A A A G A A A C G G A G A A G$ G G G G G A GCCGGAACCCCGGGGCCAAGGGGAGGGCCGGAAGAA A G G G A A A G GACAGGAAGACGAAGGGAGAGCCAGAGGGAAGAG $G C A G A G A G A A A A G C A C C A A G G G G A G C C C C A G G A G A A A A G G A A$ A GAGGAGGAAGGGAAAGGGAAAAAGGAAGGAAGGGCCCACAA A GAAGGGCCAACCGGAACGAAGGGAAGAGAGAAAGGGGGGGG GAAGAAGCAGGGGAGAACAGAAAGGGGGGAACCGGAAGAGAC CACAAGGGGAAGGAAGGAAAGGAAACGAACCAGAAGGCCGGA GCAAACAAACCCAAAAAAAGGGGCCAAGAGGCCCCAACCGGG A GAAAGGAACCAGAAAGAGAAAAGAAAAAGGAACCAGGAAAG GAAAAAAAAGGGGGACAAAGACCCCAGGAGAAGACAGAAAAC C GAGAATAAAAACAGAGGAAAGGAAGGAAGGCCGGGGAATAC AAAGGGGGGCAAGAGGACCGGTACCAAGGGGAAAAAAGGGGA G G G G G G G G A A A A A G GACAGAGACACGGAAGGAA GAAAGGGGA ATTAGAGCAGAAAAAGGGGGGGGGGGGAAAAAACAGGAAGGG $G G G C C A G A G C A G G G A A G A A G A G G A A A G G G A G A A G C B A A G G G G$ AGGGGCAGGGAAAGACCGGAAGGAGGAAAGGTTAGAGGGAGA A GACAGGGAAGAAGGGGAGACAAGGGGGGCCACCAGGAAGGG A A A A A T TCCGAAAACAGGAGGAAGGAAAGACAGAGGGAACAA A GACCCCCCAGAAGAAACCGGGAGAGAAGGAAGAGAGAGGAG G G GAA $A \operatorname{GACAAACGGAAAGGAGGAAAAGGGGAAGGGAACGGC}$ C G G A A G G G A GAA A A GCCGGGAAAAACAGGAAAAGGAAAAGGC CAAAAAAAAGGAAGGGGGGGGGGGGGGAAGGAACCGAAAAGG A ACGAAAAATTAAGGAGAGACGGAAAAAGACGGACAGAGABA
 GAAA A A A A G G GAGGAAGGGAGGGGAGAAAAAAGGAAAAGACAA
 AAGAGCAGGAAAAGGCCGGAAGGAAGGGAACGGAGAACACAG A GGCCAAAAAGACGGAGAGAAAAAAGGGAAAGAAAGGGGGGG

 GAAGAAAGAGAAGAGGGAAGGAAAAAAGGGGAGGGGGAACAC CA $\operatorname{G} A A A G G A A C C C A A G G A C A G G G G A G G G A A G A A G A A A G G T T G$ GAAGGAAAGAGACGGAGGGACAGGAAAGGAAAAAGAGGGAGG
 G GAGGGGGAGAGGACGGAAGGGGCCCCGAGAGGCCGAACGGA A A G G A A G G A G A G G G A A A A A A $\mathcal{A} G G G G A G A A G A G G A A G G A A G A A$ G G G G GAGAAACAAAGACGGGGGGAAGGAACCGGGGAAAAAGAG GACGGGGGGGAAGACGGGGGGGGAAAAAAAAAGGGAGCAAAA A G G G G GATTAGGAGAGGAAGGGGCCAAAAAAAAAAGGGGAGG G G A A A G G G G G G G G A A G G A A G G C C A A GGGGC C A A G GCC
G GCCAAGGGGAAAGCCAAGGAAGGAAGGGAAAACAAGACCG A G G G A A C A A G G G G GAAAAAAAAAAAAAAAAAAAGAAAGAAGC CAGGAAGGGAAACAGAGGACCAAAAAACCGGAAAAAACAAAG GAAGAAGAAGGCCAAGCAAAGAAAGGAAAAAAAAAG GAAAA G A A GAA A A GACAGAAGAGGAGGGAAAGGGGCCAAGGGAAAGAG A GAGAAACAGGGACCAGGAAAGGCCAGAACCAAGGGGGAGGA A G G G G A A A A A A G G GAGGGAAAAAGAGAAAAACCAGAAAAAA G GAAGGCCAAGGAAGGAAAAGAGGAAAAAAGGAGGGGAGACAA AAAGGGAAAAGAACGAGAAAAGGAAGAAAAAAAAAGAGACGC

A G G G G G G A GAGGAGGGAAGGGCCGAGAGGGAAAACAACAGGC
 GAAAAAAGGGAGAGGAGAAGAAGGAGAGACAACAAGAACGGC CAAAAAAAAGAGGAGGGAGACGAAGAAGGGGGGGGAAAGGGG A G GAA A GAAAAGGGGCCACAGAGGAAAAAGGAAAGGGGGCCA A A G G G A A A A G G G G G GAACC $A \operatorname{A} G A G G G G G A G A A G G C C G G A A G A G$
 AA G GAAACCAACACAAGGGGGGGAAAAGGGGAAAAGGGAAAA A A A G G A A G G G G G G G A A G A A A G G A A G G A G A A C A A C C G G G G G G G GACAGGAGAAGGAAAGGGGAAAAGAGGGGCAGACCAAGGGGA AAA A G G GAAAAGGGGAACCAAGGGGGGAGGGGAAGGAAAGGG G G G A A A A G GCCAAAAGGGGAGCCAGGGAGAGGAGGAAAAAAC CAAACAGAGGGAGAGAGGAGGCCAGGGGGCCAGAGAGGAGAG A G G G G G G A G G G G G G A A A A A A G G G G A A A A G G A G G G G A G A G G A A A A G G G A G G G G G G G G G GAAAACCCCGAGGGGGGGAACAACAAGG G G G GACCCCCAGAGAGGGGAAGGCCAAAAGGGGAAAAGGGGA GCCGAGGAGAGAACCGGAAAACCGAGGCXAAAACAGGGGTTG G G G GAGGCCGGGGCCACGGAAGAAGCCAAGAAAAACCAAGEG G G GACAAAAAGGAAGGAGGAAGAAAAACCGGAAAAGAAAGGG GAAAAGGCCAAAAGGAAGGGGAGAAAAAAGGGAACBAAAAGG GA $\operatorname{G} G A A A C C A A G G G A G G A G A A G G G G G A C C G A G G G G G A A G A A G$ G G GAACCCCGGGGAACCGGGGGGGGAAAAACGAACAGAAAAA A A A G A A A A C G G A CAC $\mathcal{A} G G G G A G G G G G G C C A G A C A A A A C B A G C$ C GAACAAGAAGAAAACCGGGGCCGAGAGACCGGGAAAACABA A A C A G A G G G A A G G G G A A G G G G A A G G A A G G A A A A A A G G A A G G G GAAGGGGGGGGGGAAAAAAGGGGGGAAAAAAGGAAGGCAAAG G G G G GAAAAGGCCAAGGCCAAGGAACCAACCAAGGAAGAAAA A A A A A G G G G A A G G A A A A G G A A G G G G G GAA A G A A A A G G A A A A G GAAAAAAAAGGCCAAGGAAGGGGTTAAAAAAAACCAAGGGGG GAAAAGGAAGGGGGGAAAGAGGAGGGAAAAGAAAAGGGAACB
 CAAAGACGGCCAAAACCGAGGCACAGGAGAAGGAGAAGAGGA GCCTTGGAAGGAAGACCAAAAAGGGACAAGGCAGGACAAAAG GAACCGGGGAAAAAAAAGGAAAAGAGAAGGAGGGGGGCAAGA GAAAAAGAGAAGAAGACGGGGAACCAAGGAAAGAAAAGAGAA A G G G A A C G C G C A G A A A C C C G GAGGGAAGGGGAGGGGAAAAA G $A C C A G A G G G A A A A G G A C A G A A C C G G G A G G A A G G C G A G G A G A G$ G G GAGAGGAGGAAGGGGACAGAAAGAGAAGAAA GAGAAAGAG G G G A A G G G G G A G A A C G A A G G A G G G G A A G G G G G G G G A C A A G G A CAA A G GAGGGGAACCAGAGGAGGAGAGGGGGAAAACCABAAG A A A A A A A A A A A GAGGCCGGAAAGAGGGGAAGGAGAGTTXAAA G G G A G A A G G G G G A C C G A G G G G A G G G A A G A A G A G G G G G G G G G G G G GCAGGCAAGAAGGAAAAGGGGGGAACAAAGGAAGAAAGAG $A A G G G G G G G G G G G G C G A A A A A A G A A A G A G G A C A A A G A G G G G G$ G G G A A A A A A G G A A A A G GAGGGAGCCGGAGAAAGGACCA GA GA $A C C A A G G G A A A A A G A G G G G G G A A G G A G A G A G G G A A G A A A C A A$ A A G A G G A A GCCGGAAAAGAGGGAGAGGGGGAGGGGAGAAAAA A A GA $\operatorname{A} A A A A A A G A G G G A G G G G A A A A A C A A G A G G G G G A A A A A C$ A G G G G G G G GAAACACAGCCGGCAGGGAGAAGCCGGACAAAAA GAGGGGGCCGGAGAAGGAGAAGGAAAAGGGGGGAAAGAAAAA $A G A G G G G G G G G G G G G A A G G G G A A A A A A G G G G A A G G G A A A G G G$ $G G G A A C C A A A A A A G G A A G G G G A A G G A A A A G G C C A A G G G A A A G$ G G G A A G G C C G G G G A A A A G G A A G G C C G G A A G G A A G G A A G G A A A AAAAAAAAAGGGGGGGGGGGGAAAAAACCCCGGAAAAAAGGA A A A A A G G G G G G G GAAGGCCCCACAAAAAAGAAAGGACAACCG A G A A A G G A A G G G G G G C C G A G G G G A C G G G G G G G G G G A A G A A $\mathcal{A} A$ GAAAGCCCCGAAAATAGAAGGCAAAAAAAAGGGAAAAAAAAA A A A A A G G G GCAGGGGCCCCGGAACCGGAACACAGGTAGAAAG GAAGAAGAGACAGAAGGCCGGACGGCAAAGAAAAAAAAAGGA

C GAAGGGAAGGCCGGAAAAGGCCAAGAAGAGAAAAAAGGGGA A A A A G G G C C A G A A $\mathcal{A} G G G G G G G G G G G G A G G C C G A A G G G C X A G A$ GAGAGAGAGAGAAAGACAGAAAAAAAAGGAGGGGGACCCCCC $C G A G G C C A C C C A A A A A A C G C C C A A A A A A A A G A G G G C A A G G G G$ $G C C G A A C G G A C A A A A G G A A G G C C G G A A G G G G G G G C A A A A G B A$ AAAGGGGGGGAACGGCCGAAAGAGAAAAAGGAAGGAAGAAGG GAAAAAACACCGGAGCCAGGAAAAAAAGGAGGGGGGGGAAGA GAGGGGGGGAGAAAAGGAAGGACAAAGAGGGAAGGAAAAGGA A G G G G A A G A C A A A $\mathcal{A} G G G G A G G G A G G G G A G G A A C G G A A C A G A T$ TCCAGAGAAGGGGAAAAGAAGAGAGGGAAAATAGGAAGAAAG G G G GAT TCCAGAAGGAAGAGGCCCCAAAGGGAGGGGGAACAC C G GAAAAAAGGCCAAGGAAAAAAAGATACGAAGAAGGCAGAA $G C A A A A A C C G G A G G G A C G G A G A A A A C A G G A G A G A G A G A G G G C$ A GACCGGCCAGGAAGGGACAAGGAAGGCAACAGAAAAGAAAG G G GAACCGGAAGGAGAAGGCCCCAAGGGAAAAAGAAGGAAAG A GAGGAGAGAGAGGAGGAAAAGGGGAGGAAAACAAAAGGGGA
 A A GCAAGCAAAGAGGGGAAAAGGCAGGGAGAGAGGGGAGABA C G G G G GA G GAAAA $A \operatorname{A} A A A G G A G G G G G A A A A T T A A G G G A C A G A A$ A A G G A A A A A A A G G A A C C A A A A G G G G A A G G G GAAAAACCGGGGC C G G G G G GATAAAAAAGGGGACAAACCAAGCACAAAGGACAAA A T T G G A G G G G A A TAACCGGCCAAAAAGGGAGGGAGAGAAGAA AAAGGGGGGGGAAAAAAAAAGAGAACACAGGAAGGGGAGAAAA A A GCCGGGGCCGGGGGAAAGAGGAACCGGAAGGGGAAGAAAC C G G A A A A G G A A A A $\mathcal{A} G G G G G G A G G C C G G G G G G G G G G A A G A G A A$ AAAAAGGAGAGACAGGAGGGGCCAGAACCGGGGAAAAAGGGA G GAAAAGGGAAAGGAAAAAAGGGGGGGAGAAGGAACCAGGAA G GAGAGGCAAAAAGGGGAGGGGAGGCCGGAAGGAAGGAAAGA A G G A G G G G GAGGACAAAGAGGGGGGAGAGAAAGCCGGAAAAG G GAGGAACCCCCCGGGGGGAGGGGGCCAAGACAAGGAAGGGG GAGAGAAGGGGGGCGGACCAAAACAAGGGGGAGGGGAAAAAC C GAAAAACCGGCAGAAGGGCCGGAGGAAGAAAAGGAAGAAAA A A GAGAACCGGAAGGAGAAAGGAGGGAAGAAAAAAGGCCGGG GAAAAGAGGACGGAAAAAGGAGAGGGGGAGGAAAAAGGAAGA G G G G GCAAAAGGGAAAAAACCCCAAGGAAGAGAAGAAAAAAG GAACCGGAAACAACAGGGAACCCGAGAAAGAGGGGAAAAAAB GAAAGAAAAAGGAGAGGGGGGGGGGGGGAAAAAGAAAACAAA
 A ACGGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGC C G G G GCCAAAAAAAAAAGGAAGGAAGGGGAACCGGACAAGAA GAGGAGGAAGAGGGGGGAGGGACAGGGACAGGAAAAGAAAAA GCAAAGGGGGGACAGAAAAGGGGAAGGAAGAACGGGAAAABA $C G G A A G G G A A G A A A A G G A A G A G A C C G G G A C C G A A A G G C C C G A$ GAAGACAGAAAGGGGGGAGAAAGGGGAGGCCGGCCAGABAAG GAGAAGGAGAAAAGAAAGGGACCAGCCGGCCAAAAGAACAGA CA $A \operatorname{GAAAAAAGGGGGGAAGGAAGGAGGGAGAGAGGAAA} G G G G G$ GAAAA AA $A \operatorname{A} G \mathrm{GA} A \mathrm{~A} C \subset A A A G A A G G A A A G G G G G G G G G G G A B A A G$ G G G G G G G A A A A G G G G G G A A A A A A G GCCC CA $\mathcal{A} G G G G G A G A A A G$ GAGAGAAGGAGAAAGAGGGGAGGAAGGGAGGAGAGAGAGGAC CAAGGGGAGGGAGGGGGCCAAAAAAACAGACAGGGGG
CAGGGGAAAACAAAGACAGAAGAAGGGGCCAACCAGAAGGA ACAACGAGGGGAAAGGCAACCAAGAGAGACAGGAAAAGGGGA A G G A A G G C C G G A A A A A A A G A GAGAGGGGGAACCAAA G GAG GA AAAGGAAGGGAAAAGAAAGGAAGGGGGGAAAAGGGGAAAAGAC A G G G A G G G GCCCCAC GAGGCCGGAGGAAGCCAGAAGGAAGAG G G A A A A C G G A A A A A C G A G G G G G G A G A A C C G G G G G G G A A A C C G GAGGGGGAAAACCGGGGAAAAAAGGAAAAAAAAGGGAAAGGA ACCGGGGGGAAAAAAAAGGAAAAAAGGAGGAAAAGAAAAAAG GGAGGGAAGAGCAACCGAAGGGGGGAAAAAGAAAAGGCACAA

G G G GAACAAGCAAGAGGGGGGGGACGGGACCCCAGGAGAGAA GAAA A A $A \operatorname{A} A G G G G A A G G T T A A G G G G G G A A G G A A A A G G A G G G T$ $T G G G G A A A A G G G G A A G G G G A A A G G A G G A G A A G G G G G A G G G G G$ GAAGGGAGGAAAAGAAGAGAGAAAAGGAAACCCGAGGAGAAA A G GACAGGGGGGGGGCCAGACAGAGGAAAAAGGAAAAGGGGG A ACGGAACAAAGGAAGGACAACCGGGGAAAAGGGGAAAAAAG A A G G G G G G A C C G G G G G G G A A G A A A A A GA GAAGAGAA AAAAC $A$ GAAAAGACAGGGAAGGGAGGGGGAAAAAGGGGAGGGAAAAAA G G G G G A A G GAA $A \operatorname{GCC} C A \operatorname{A} A A G A G G G C A A A C C A G G G A A A G G G G$ G G GAGAAGGAAAAAAAAAAGGGGAAAAACAAGGAGGAAAAAA $C G G A G G G G G A C A A A G G G G A A G G A G A G G A A A C G A G G A G G A A A G$
 A A A A A A A A A G G G G G GAA $A \operatorname{GAAAAGAAGGAACCGGAAAAAACCG}$ A A A G G A A $\mathcal{A} G G G A A G G A A G G G G A A A A G G G G G G G G G G A A G A A A G$ GAGCAAGAGGGGGAGGAGAGAGGGGGAAGCCCCGGACAAAGG GA GAA A GAAGGAAGCAGCAGAAGAAAGGGACGGAAGAGAAGA GAGGGCCGGACGGAGAAGGGAGAAGGGAAAAAAGGCCBAATC C A A A A A G A A A A A A A A A A A G CA G GAATTGAAAGGGGAGAGAAC C T TCCGGGAAGAGGAGGGGGAAAAACCGAGAGACAGAAGAAG G G G A A C A G A G GCCA $\mathcal{A} A \operatorname{A} G A C C G G G A G G G G G G A C G A G G A G G G G$ GAGGAAAGGGGCACAAGAAAAGGAAAGAGAGAAGAAACACCA AAACCAAAAGGGGGGAAAAAACCAGGAGAAAAAAAAAGGGGA
 AAAGGGACCCAAAAAAAAAGGAGAGCAACAAGGGGCCAACAG ACCAA $C$ A A A GAA $A$ AAAACAGGGGGGAGAAAAGAAGGAAGA GACA GAAGGGAAGTTGAAAGGGGGGAGCCGCGGAGGAAGGAAAGGA G GAGGAGGAGGAGAGGAAAAAGGAAAGGGGGAACCAAAGGGG GAGAAGGCAAAAGGAGAGAAAAAGGGGGGACAGGGGGAACAA $G C C A A A A A G A A C C C C A G G G C A C C A A A A A G A A A A G A A C G G G A G$ G G G A G A G G A G G A G G G G G C A A A A A GAAGACGGCCCCAAGGGGG G G G G G A A A A C A GAG G G G A A GAGGAAAA GAGGGAAAA G G GAAAA AAAGAAACCAACCAAGGAAGGGGAAGGAGAAGGGAGAAAGAA A A GAA A G G G G G A A A G G G GAGC G G G G C C A A G G G A C A A G G G G A A $A C C G A G G A A A C G A A G A A G A C C A G G A G A G A A A G G G G G G A A G A A$
 $A G G A A G G A A G G G G A A G G G G G G A A A A A G G G G A G G G G A G G A G G B$ G G GAAAAGGCAGGAGGGAAGGAAAGAAGACCAGAGAAAAGAA G GAACAAA AAGAAGGAAGGAAGAAAGGCCGGAAGGAACGGGC A G G G A G G G G A A A A A A A C A A G A A A G G G G G G A A GA G G A G G A A G G GCACCGGCAAGGGGGAAGGGGGGAAGAAGAAGGCCGGAAAAG G G G A A G G G GAAAA $A \operatorname{A} G \mathrm{G} G A A G G G G G G G G A A G G G G T T A A A A C C C$ CAACCGGGGAACCAAGGAAAAGGAAGGAAAACCAAGAAAGBA A G GAAGGCCAAAAAAAAAAGGGGAAAAGGGGGGGGAAAACCG G G G G GAACCAAGGCCAAAACCGGAAAGAAAAAAGGGGGAAAA G G G G A G G G GACAAGAGGGGAGAAAGGGCAAGCCAGCCCCCAA GAGGGGGGGAGGGAAAAGGGGGAGGAAGGAGCGGAAGAGCAA A G GAACCAGAAAAGGAAAGGATTAAAAAAGGGGGGAGGGGGG G GAGGGAGGAACCGAGGGGAAAAGGAAGGAAAAAATTCAAAG GAGAACCAAAAAAGGGAAAAAGGCCGAAACCGAAGCCACGAA
 A G A A G G G G G G A A A G G G G G G G G A A A A A A A A A G C CAA A G CAAA $A$ G G GAA A GAAGGGGGGAACCCCAAGGGGAGGGAGCCCCCCCAA A G G A G CA $\operatorname{A} G A A G G C C A A A A A A G G G G A T G G G G A A G G A A G G C C A$ CAGCCAGAAACAGCACGGGGAGGGGGGGAAGGAAGAGAGGGG GAACCCCGGGACAAGAGGGGGAACCAAGGAGGGGAAGCCGGG A G G G GCC G G A A A A A A C C G GCCAACCAGGGGAGC GAA GCC G G A
 G G G A G G G A A GACC G G G A GA G G A A A A G G T T A C A G G G C C C C G G A $A G G G G A A A A G G G G A G C C A A G A G A A A G G A A G G C G A A A G G A G G G$

G GAAGGGGGAGGGGGAAAAGAAAAACCAAGGAAAAGAAAAAG GAAGGAAAAGGGGGGAAGAAGAGGGGGGAAGAAGAAAAAAGG GAAGAAGAGAAAAAGAAAAGGCCACAAGGGGACAAAAAAGAC CAGGGGGGAAAAAGGAGAGAAAAAGCAGAAAGGAAGGGGGGA AAAACGAGGAGCAGGAACCGGAAGGGAGGCAGGCAACGAGAA GAACCGGAAGGGGGGAAAGAAAAGGGAAAGGCCAAAGAGGGA A A A A G A G G A A A G G G G G G G G G G A A C C G G A A A A GA GA G G T T A A G AGGAGGGGGACACGGAAAAGAAAGAGAGAGGAAGGAAAGGAA A GAA A A G G A CAAACAAGGAAAGACCGAGAGGACGAAAGAGAG $G C C C A C C G G G G A G G G C G A A G G A A C C A G A G G G A A A C A A G A C C G$ A G GAAAAAAAAGGGAACAAAAGGGAAACGAAAAGGAAGACAA
 CAAGGAAGGAAAAAAGGAACCGGGGGGAAGGGAGGCAAAGAA C C CA G GAAA A G GAAAGGAACCCAAAACGGGGCCGGGAGEAGA A G GAAGGAGGAGGGGAGCCACAAGGGGGAAAGAAGAGAAGGC CAAGGGAGACCGGAGCCGAGGACGACCAAAGAGAGGGAGAAA
 A G G G G A A C C G A A G A GAGAA $A \operatorname{AGGGGGGGAAAGGGGGAAAAAAG}$ GAAGAAAGGGGGAGAAAAGAGGAAAAGGGGGAGAAAAGGGGA A G G A A A G A G G G A G A G G G G G G G A A G A GATAA $A$ A A C G G A GAAAAA AAGAAGAGGGGGGAAAGGGCCGGGGAAGAACGGAGAAGAGGC CAAAAGGAAGGAAGGAAAAGGGGAAGGAAAAGAGAAGAAAAG
 GACAAAAGGAGAGACGAGACCAGAAGGAAGGAAAAGGGGCCA A A A A A A G G A G A G GAGAAACAAGGGGGGGGGGGGAAGACAAAA GCCGAGGAGGGAGAAGAGAGGGAAAGGGGGGGAAAAAGGGGC C G GACAAAAAGAAAAAAGGAAAACCAAGGGGGGGGGCAACAG GAAAAGGAGTTAGAGCCAACACCGGAAAAAAAGGGAAAGAGA GAGGAGAACAGAGGAGGGGGACCGAAGGAGGCAGAGAAGAAG
 A G G G A A $\mathcal{A} C C G G G G A G A G G G G G G A G G G G A A A A A A A A A G C A G G T$ TCCAAAGGGACAAGGACAGGGGAGGGGGAAGGGAAAAGAGAG A GAA A GAAAAGAAGGCCGAGGGACAGGGGGGTTAAAAAAAAG
 A GACCAAAAAAGAAAGGAAAAGGAAACGGACAGCACCBGAGG G G G G A G A A A A A A G G G G A G G A G A G G A A A G A A G G G G G A G G G A G G GAACGGGAAGGCAAATTCAGGGGGGGACCGCAGGAGACAGAG A G G G G G G G G G G G G GAACAAGGGAGCCAAGAAGAAGGGAAAGC
 A G GAA A G G A GACCCCGGGGAAGGGAGGAAAAGGAACAAAAAA AGGAAGGCCGGGAGGCCAAAGACAAGAGAGAGGGGCCAAAAG
 AAAA A A G G G G G GAAAAAGAGGAGAGAAAGAGCACCCCAAAGA G G G G A C A A G G G A G A A A A A G G G G G G G G G A A A G C C A G G G G G G G C A A G G G G G G G G A G A A T A G G G A G G G G G A T A GCC G A G A A A A A A A A A GAA $A \operatorname{GG}$ GAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGAG G G GAAAA $A \operatorname{A} A A A G G G G A A A A A A G G G G A A A A G G A A G G G G G G G G G$
 G GAGGCCAAGGGAAAAAGGAAGGGAGAGGAAAAAAGAGGCCA A G G G A G C A C G A A G C C G G A G G G G C A A G G A A A G A C A G G G
CACCGAAAAAAAAGGGGGAAAAGGAGGAAGAAAAAAGGGGC CAGAGAGACAGAAAGGAGGAGGAAGGAAGGGGGGAGGCAGGA GAACA $A \operatorname{A} A A G G A A G G G G G A G G G G G G G A G A G G A A G A A G A A A G G A$ A GAGGCCAAGAGGGGGGAGAGGAAGGAAGAAGGACAAGGCAG G G G G G G G C C A A G G A A G G C A A A C A A A A G G G GAGGAAAAAAA G G GAAGGAAAAAAGGAAGAAGGACCGGAAGGGACCGAGAAAGGG G G G A A A G G GCCAA G GAA A GAGAGAAAAACGGGGGGAAAA G GA GAGGGGAAGAAGGAGAAACGAGAAGAAAAAAAAAGGGGGGGA $A G G G G A A A G A A G G G G G G A A G A A G G A G G G A A G G A G G A A G A C C A$

A G GACAACCGAGGAAGGCCAAGGAGAGGGGGGGGGAAGGGGG GAA $A \operatorname{GA} A G G C C G A G A G A G G G A A A A C G G A A G G A G G G G G C A A G B$
 GCCAGAGGGGGAGGAAACCGGGGGGAAAAGAGAAAAGGAAGG AAGGAAGGACCGGGGAAGGGGGAAAGGCCAAAACCCCAAGAG A G G G G A G G G A A A G A G G A A A G G A A A A G GAAAAAAACCCCCAAAC C G G A A G G A A A A G G G GCCAAAAAAAAGGGGAAAAAACCCCCCG GAAGGAAGGAAAAGGGGAAAACCAAGGGGGGGGGGAAGAAAG $G C C C C G G A A A A A A C C G G G G G G A G G G G G G A A G A G G G G A A G A A G$ GAAAAGGGGGGGAAGCCAGGGAGAAAAGGGGGGGAGAAAGGG G GA $A \operatorname{GA} A A A G G G G A A G G A A A A G G A A G G A A G G A A A A A A G G G G A$ ACCAAGGGGGGGGCCAAGGGGAAAACCAAAAAAAAAAAAAAA A A A G G A A A A A A G G G GAAAA A G GAA $A \operatorname{AGGGTTTTAACCGGGGCCG}$ GGGAAGGCCAAAAAACCGGCCGGAAGGAACCAAGGAAGGGGC $C G G A A A A C C A A A A C C G G A A A A A A A A C C G G C A A A A G G A A A A G$ $G C C G G A A G G A A G G G G C C G G C C A A G G A A A A A A A A G G A A A A G G T$ T G GAACCAAGGAAAAAAGGAAAAAAGGAAGGGGAACCAAGAA A G G A A G G G G G G G G G GAACCGGCCAAAAAAAAGGGGGGGGGGA A A A A A A A A A A ACCAAGGCCAAAAGGAAAAAAAAGGAAGGGGG GCCGGGGAAAAAATTGGGGCCAAGGGGAAAAAACCGGAAGAA AAACCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAG GAAT TAAAAAAGGCCGGAAGGGGGGAATTAACCGGAAGGGGGGGGA AAAAAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAG G G GAA $A \operatorname{GAA} A C A A A A G G A A G G A A G G G G A A G G G G A A G A A A G G G$ GAAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGAA AGGGGCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAG GAAAAAAAAAAAAAAAAAAAAAAAAAAGGGGGGGGAAAAGAG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA A A A G G A A G GAAAAGGAAGGAACCGGAAAACCAAGGGGGAAAA $A G G G G A A A A G G A A G G G G A A G G A A G G G G A A G G G G G G A A G A A A A$ A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G A A G G A A A A G G A A A GAGAAAGGGAAAAGGGGAACAAGGGAGAACCAACAAGGGA $C G G C A G C G A C C G G A G A A A A A G G G G G A C G A A G G G A A A A G G G G G$ GCCAC GACAAGGAAAACGGGAAAAAAGGGGGGGCCAAGAGAA G GAGGAAAAGGAAAAAGGGACACAAGAGGGGAGGGGAACAAC A GAAA A A GAAAGGAAGACAAAAAAGCCAGAGAGAGAAGGGAC A A A GAA A A G G G GACCAGAC GAGGAAGGGGGGAGGAGCACACA GAAGCAGGGAGAAGGAAGGAACCCCGGCCAAGGGGAAAAGGG GAAGGGGAAAGAAGAAACAAAAACCAAAAACAAAAAAAAAAA A A A A A A A A A G GAGAGGAAGAACCCAGGGGGGCCAAAACAAAA $G C C A G A G G G G G C C A A G G C C A A G G A C A A A G A A G G G G G A A A A A G$ GAAGGAAGGAAGGGGAGGGAGACAGGGGGCCAAAAAAAAGGG G GAAAAAGGAAAATTAAAGGGAAGGAAAATTAAAAGAGACCA A A A A A A A G GAAAC GAACTTAAAGAGGGAAAAAAAAGGAACAG GAGAGCCATGGAAAAAACCGCACGGAAGAAGAACAAAAAGBA TGACCAACCAAAACAGAGGGGAAAGGGGACAAGAGGBAAGAA GAAAAGGGGAGGGGGAGACGGAAGGGGAGGAGAAAAGCAAGC CAAGGAGCAGGGGGGCCAGGACCGGGAAAAACCGAGGAGAAA AGGTTAAAAAAAACCAAAAAAAAGGAAGAAAAACCAAAGAAA A G G A A C A A A G A A A C A A A C CAAAGCCGGGAAGGAATAAAAGAA A A A A A G G A GAA $A$ A A A A A GAGGCCCCGGGGGGAGGGACAAAAA
 G G G A A C C G GA G G C A A G G A G A GAAAAAGGGGGAAAGAGAAA GA G GAGAAAAACCAAACAGGGAAGAGGAAATGGGACAAAAGGGA C G G G GAGCCCCAGAGAGGGAAAAAAAGAAAAAGAAAGGAAGAC A G G A A A A A A A C G GAAAAGGAAAAAAGAGGAAGAAGGGGAAGAG $G C C A G A A G G A A A A G G G G G A A G G A G A G G C C C A G G A A A G A A G G G$ GAAGAGAAGAAGGGGGACCAAGGAGAAGGGAGGAAAGGAAAA AAAGAGAAGGGAACCCCGGGGAGCCAGAGGGAAAAGGCAAAG

G GAGGGGAAAGACGGGGCCCCAAACAGGGAAAGGAAGGAAGA C GAGGAAAGAACCAAGGTTAAGGGGAAAAGGGGAACCAAAAA A A A G GAA $A \operatorname{GGG} \operatorname{GA} A C C A A G G A A G G G G G G A A A A A A A A G G A A C A G$ GAAAAAAGGAAAAGGAACCAAGGAAGGGGAAAACCGGGAAAC CAAAAAAAAGGAAGGGGAAGGAAGGGGCCAAGGCCGAAAGAA ACCAAGGAAAAGGAAGGAAGGGGAAAATTCCAAGGGGAACAA A A A A A T TAAAACCAAGGGGAAGGAAGGAAAACCGGGGGAAAA AGGGGAACCAACCGGGGAAGGGGGGAAGGAACCCCAAGAAAA A G G A A A A G G A A G G A A A A G G C C G G G G G G G G G G C C G G A A A A A A G GAACCGGGGGGAAAACCAAAAGGAAAACCAAGGCCAAGGGGG G G GCCAAAAAACCCCGGAACCAAGGGGAAGGGGGAGAAAAGA A G A A G A G A GCC G G A A A A G G A A G A A GACAGCCAGGGG GA GA GA A G G A A GAAA A G A A A A A A G G G G A A A A A GAA AGGGGGAAAAAAC A A A A A A A A G G A A A A A A A A A GAAA A A CA GAGGGGGGAAGAA GA GAGGAAGAAGAGGGGGGAAGGACGGCAAGGAGGAGAGACACA G GAAAGGGGAACCGGAAAGCCAAGGGAACAGGGAAAGGAAAG A G G G G A G A GAAAAGGAAAACCAAGGGACCAGGGAGCCACABA A A A A A A G A A A A A GACGGCCAAGGAAGGGGACGAGAAAAGGAA $G C C G A G G A G A G G A A A A A A G G G G G G G A A A A A A G G A A A A A A G G A$ AAAGGAAAGCAGAAGAAGGAGACAAGGGGCCGAGGAAAAAGA $A C C C C C C A T C C A C A C A A A A G A G A A G C A G A A G G A G G G G A C A A G$
 AAAGGCAGGAGCCAACAGAAAAGAAGAGAGGGAGATTGAGGA G G G A A G G A A G G G G A A A G G G CA G G A A A A G A A GA GACAAAA A G C $A C \subset A G G G A A A A G G A A A A A G G G G G A A G A G G G A C A A G G A A A G G G$ G G GCCGGGGGGAAGGGGCCAAAAAAGGACGGAACCAACAAAA G G G G GCAAAGGGGGAAAAAGGAAAGCCAGAGGGAAAAAAAAG G GAG $A \operatorname{GG} \operatorname{GAA} A G G G G G A A A G A G A G G A C A G A G G G G A A G A A A A C B$
 AAGGAGAAGAGAACCGGAAGGGAAAGAGGAAAGCCAGAGGAA G G GACAGAGAAAAGGCCAAGGAGAGGAAGTAAAGAAGAAAAG ACAAACCAGGGAAAAAAGGGAAAAGGAAGGGAAGGAAGAAGA $A C C A A G G G G A G C A G G G A C A A G G A G G C A A A G G A A G G G G A G A G A$ A G GAGCCGAACAAGGAAAAAAAAGAGGGGGACACAAAGAAGG
 G G G GAGCAGAGAGGCGGAAAAAAAGGAGGAAGGACGAGAAAA AATGAAAACAAAGAGAGAGGAAGACCCGAGACACCCAAGTTG G GA $A$ A $\operatorname{GA} A G A A A A A G G G G G G A A G G A A C C A A A G G G G G A G A G G G G$ G G A G G A T C A C G G G G G G G A A A A A G G G C C G G A G G G A A G G G G A A G GAGCCAAGAAAGGGGAGGGGAAGGGGGGGGGGGGAGACAAAC $G C A A G G G A G A A G A G G G G G G G G A G A A G G A A T T C C G G G A A A A G A$ A A G GAGGGGCAAGAGAGGGAGGAACGGAACCAGCAAAAAAGG A GAAGAAGGCCCAGAGGGAAACCAACATTAAAACCGGGAAAA AAACAGGGGAGAAGGGGAGAAAAGGGGGGGGCCAAAAGAAGG AAACCGGAAGGGGCAAACAAAAAAGAAAAGAAAGGGGGGGGA A A A A ACCAACCAAAAGGAAGAAACCAAAAAGGGAGGAAGGAG A A A A ACCAAAAAAGGCCGAGAAACCGGAAAAAAAAAAAGGGG GAAAAAACCAAAAAAAAAAAGAGAAGAAAGGAAGGAAAAGGA $C G G G G A G C C A C A G G A A A G G G G G C A A G G G G A A G G A G G G A A A G G$ GCGCCGGGAAAAAGGGGGGAGAAGGGAGGAGACCAAA
 GAAGAAAGGAAGAGGGGAAAAGGCCAGAGGGAAGACCGAAAG GA G A A A A A A G G A G G G A A A A C C A A G G A A G G A A T T A A A A G GAAC CACAGAAAAAGGAGAAGAGGGAAGGGGAAGGCAAAGAAAGGG GCCAAGGGGCCAAAACCAAAAGGAGGAAGCCAGAAGGACAGG C G G GACAA GAAAAAACCAAAGAAAAGAAAGGAACCGGGCAGC CAACCCCACGGAAGGACGAGGGGGGAGAAAAACCCAAAAGGG
 G G G G GAAAAGGCCGGAAGAAGAGGAAGCAAGGGAGAGACAGC

C G G GAAAAAAGAAGGGAGAATTGGGAGAGGAAAGAGGGCCA A A A A A A GCC C G G G G G G GAGGGGGCCCCAAGGAAGGAAGGCCG GCCGGAACCAAAAAAGGGGAAAAGGAAAACCAAGGAAAAGGG GCCGGGGGGAGGGGGGGAGGAGGGGGGGAGCGGGGCAAAAGG $G C C A A A A A A G G A A A A A A A A A A A A G G C C G G G G G G A A G G A A G A A$ A G GAAA A $A \operatorname{A} A A A A G G A A G G C C A A G G C C C C G G G G A A A A G G G G A$ A G GCCGGAAGGAAAAGGCCAAAAAAGGAAGGAAAGGGGGCCG G G G G GCCGGGGCCAAAAGGGGAAGGAAGGGGAAAACCAAAAA A A A A A A A A A G G A A A A G GCC $C$ G G G G G GAAAAACCGGGGGGA GAAA A G GAA $A \operatorname{GAAAAAAAGGGGGGGGCCGGAAAAGGGGCCGAAAGGG}$ GAAGGAACCAAGGGGGGAAAAGGAAGGAAGGAACCGGABAAA A G G G G G G G G G G A A G G A A C C G G G G C C A A G G A A G G G G A A A A G G G
 A G G G G G G G G G G G G A A A A A G A A A G G G G G G G G A A C C G G G G G G G G G A GAGACCTAAAAAGGCCGGGGAAAGAACGGGAAAAGGGGGGC
 AAAGGAGAAAAGGAAGGAAGAACGACCAAAACCGGGAAAGBA A A A G G G G G G A A A A G G G G C C A A G G T TAA A G A G G G A A A A G G G G C C C C G G G G G GAAA A A G G GAGAA G G G G G G G G A GA $A \operatorname{A} A G G G G G G G A$
 $C G G G G G A G G C C A G A A A A A G G A A A G G C A A G C A C A A G A G A G A G A$ TGGGGGGAAAGGATTAAACGGGGAAACAAGAGGGAAGAAGAA ACAGGAGGGAAAGAGGGGGCCCCGGAACCGGAACCGAAAGGA ACCGGAAAACCCCGGAAAAAAGGAATTAAAACCAAAAAAGAA
 $G C \subset C C A A A A C C G G A A G G A A A A A A G G G G A A A A C C A A G G G G G G G$
 A A A G G A A A A A A G G A A G G G G A A A A A A A A G G A A A A A A A A A A G G G GAATTAAGGAAAAGGGGGGAAAAAAGGGGAAGGAAAAAAGAA AAAGGAAAAGGCCAAAACCAAAAGGAAAAGGGGAAAACAAAG GAAAAGGAAAAGGAAGGGGAAAAAAGGGGGGAAAAAGGGCCG G G GAAAAGGGGGGAAAAGGAAAAAAAAGGGGAAAGCCGGGGC C T TAA A G G GCCCCAAGGGGAAGGGGAAAACCGGAAAACAAAG GAAG $A \operatorname{G} G \mathrm{G} G \mathrm{G} C \mathrm{C} G \mathrm{G} A \mathrm{~A} C \subset A A C C G G G G G G A A A A G G A A A A A A A A G$ G G G A A C C A A C C A A G GAA $A \operatorname{GAAAGGCCAAAAGGGGGGAATXAAG}$
 GAAGGAAAACCAAAAGGAAGGGGGGAAGGAAAAGGAACCCCA A G G G GAAAAAAAAAAAAGGGGAAGGAAAAAAAAAAGGAAAGA GAGAAGGAAAGGGAAAACCCGAAGGAGAAGGAAA GAGAAAAG GAACCGAAGGGAAGGGGGGAGAGGGGGAAAGCCGGAGAGAGG A G G GA G G GAAAAAAAAACAAGCAGAGGAAGGAATTGGGAAAA A G G G G A A G GACAAGAAACAGGCCGGCCAGAACCAACCCAAAA AAAGAGGAAGGGGGAAGGGGAAAGGGGAATTAGACAAAAAAA $G C C A A A A G A A A G G A T A G C C G G A A A A A A A A A A G G A A T T A C A A A$ A A A G G A A G GAA A G G GCCAAGGGCCCAACCGGGGAACAAAGEG ACAAAGGCAGGAGAAAAAACCAGCCAGAAAAGAAAGGAAAAG A A TAAA A A GAAAGCCGACAAAGGCCGAGGAAGGGGGACCCCB GATAAAGGAAAAGACGGGGAACGAAAAGGAAAAGGAAAAGGA AAAGGAGGGAAAAAAGAAAAAGAGAAAAAAGGGCCAGAAAGAC A A ACCAGCAGGAGGGAGAGGGCCGAAGAAAAGGACGAGAGAA GAAGAAACCGGAAGAAACAAGAGAGGGAGGGCGAGGGCCCCG AGGAAAGACCCAAGGAGCAAAAAAAGAGGGAGGGAAGAAAAA G A A C A G G G G G G G A G G G A G A A G A T A G G G A A A A $\mathcal{A} G G G A A G G G G G$ AGAAGGAGGAACCGGCCGGGGCAGGCAGGGAAAGAAAAGGGA AAGAAGAACGGCCAAAACCCCCCGGCCAAGGCCGGGGAAGAA A G A A C A G G A A G A A A A A G G G A G A A A GAGAGAAGGAG GACAA G G AA $A G G G A A A A A C C A A A A A A G G A A G A A G C A G G A G G G G G A G G A G$ A A G G G A A A A A G G G G G C C A A G G A G G G G A A G G G G A G A A G A A A G G GAAGGGAAACGAGAGGGGGGGGAAGGGCCGGGAGGAACAGAG

GAGGAGGCCGGAGGGAGGGAGCCAGGGGGCCGAAACCATGAG GAGGACCAAGGAAAAGGGGGGAAAGGAAAAGCAGGAGGAAAA
 GAAGGGAAAGGAGGGAAGGGGAAGGAGGGGAACAGAGGGGGG A G GCCGAGGGAGAAGGAGAGAAGGGAGGGGGAGAAGAGGCCG G GA $A \operatorname{GGA} A A A A \operatorname{A} A \operatorname{A} \operatorname{A} A A G A G G G G A G G G A A G G C C G G G G G G G G G$ A G A A A G G G GAC GA GAAGAGAAAAGAGGGGAATTACAA GAGAA $G G A G G A A C G G G A G G G A A G G A G G G A A A A G A G G A A G G A A A G G G G$
 $C G G G G G G A A G G G G C C G G A A A A G G G G A A G G G G G G A A C A A A G A A$ A G GAA A G G GAGAGGGGGCAAAAGAAGAGGAAAAGGGGCAAGA A G GAA A GAAAGGGAACCAAGGGAGGTAAGCCGGCCAAGAAGA A A A A GAA $A \operatorname{GGG} \operatorname{GAA} A G A A G G G G A C G G G A G C A G A A G G A G G G G A G$
 GAAAAAAACGGAGAAGAAAGAAAAAAGAGGGAAAGGACAAGA CAAAAGGGAGAAGAGAGGGGGAAAAAACCGGGGGGAAGAAGA A A A A G GA $\operatorname{A} G \subset C A G G A G G G G G G A G A A A A G A C C C C G G C C A C A A A$ $A C C A A G A C C G A G A G G G G A C A A A G A C A A G G A A G G A G A G A G G G G$ A A TA A G G G G G G G G G GAGGGGGGGAAACAAAAAAGGCCAAGGG GCCAAGGGAGGCCAAGGGAACGGGAAAGGAAACAAAAAAACG G G G T T GACCAAGGGGAAGGGAGGAGGACCGGAAGGAAGGGGC CAAAAAATTCAGGAGAGGAAAAGAAAAAAGAAGGAGCAAGAG A GAAGAAGGAGGAGAAAGGCCGAGGCCAAGAACAAAACAAGA A $G G G G G A G G G G A A A G G G A A A A G G G A G G A A G A A C G G G G G G G G G$ ATTCCAAAAAAGGGGGGGGGGAAGGAAAAGGGGGGAAAAAAC $C A A C C G G G G C C G G G G A A A A G A G G A A G G G G A G A G A A G G C C G G A$ A G G G GAAAAAAAAGGAAAACCAAAGGGGGGGAGAGACGGCCA GAGAGAGAAAAGAGGAAGGGGAAAAAGAAGGCAGGAACAAAAA GAACCAGGGAGAAGAAGAAGACAGAAAAAAAGGGGCCAAAAG AAAGAGACCGAGGGACCGGAGACGGGGAAGGGAGGAGCAAAG G G G A A $\mathcal{A} G G G A G A A G G G G G G A G G A A A A C A C G G C A A A A A G G G G G$ GAGAGAAGAGGGGAAGGGGGAGAGGCCGGAAAAAGGGGAAAA GAAAGAGGGGGGGAAAAAAAAGGCAAGAGCCGGGGAACAGAG A GAGGAAGGCCAGAAAGACAGACAAAGGAAGCCAAACAAAAG AGGAAGGCCCCGGAAAAAGAAGGCAGAGAAGAAAAAGAAAAA A G G G A A CAC $\mathcal{A} G A G G A A A A A G G C A G G A G A A A A G G A C A A G G G G G$ A GAAA A G G GAAAACAGGGGGAAAAAGAGGTTGGAAGGGAGAG GAGGGAGAGAGAAGGAAGGCAAGAGGGAGGGGAAAAAGAGAG A G G G G A A A A G GAAAAAAAAAAGGCCGGCCGGAAAAAACACAA $A C C A A A A A G G G A A A A A A G G G G A A A A G G C C A A G G A A C C C C G B A$
 GAAAAAAAACCGGGGAAGGAAGGGGCCGGAAAAGGGAAAGGG G G GAAAAAAAAGGGGAAAATTAAAAAAGGAAAAAAAAAAGGG GAAAAAAGGGGGGAAAAAAAAGGAAAAGGGGAGAGAGAAGAA A G GAA A GAAGGCCGGGAAAAGAACAGAGGAGGAAGCAAAGGG GAAAAAACCGGAAAAAGAGGGGGAGAAAGCAGACCAACAAAC C G GCCGGGGGGGACCAGAAAGGAAGAAGGAACCAACCCAAGA GAAGAACAGAGGAAGAAAGGGGAGGGGAGAAAAGAGAAAGAA A GGCCAAAAAAGGAAGGGGCCCCAAAAGGGGAAGGGGAACCG GAACCGGAAAAGGAAGGGGGGAAAAAACCCCCCAAGG
AAAA A GAA A G GCCAAGGGGAAGGAAAAAAGGAAGGAAGGGGG GAAGGGGGGGGAAGGAAGGAAGGGGGGGGCCAAGGCCAAGGA A A A A G A A G G G G A G A A GAGGGGGGAAACGGAAAAAAAAA G GAAA A A A A A G G G GAAAAAGGGACAAGGAAAAGGGGAAGGAGAGAAG GAAGAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCABAAG GAAGGGGAAAACCGGAAGGGGTTAAAAGGCCAAAAAACCCCG G G G G G G G A A A A G G A A A A G G G G A A A A G G G G A A A A A A G G G G A A G G G G G G A A G GAAAAAAAAAAAAAAGGGGGGAAGGAA GAAACAC $G G G A A C C G G G G A A A A A A A A G G G G G G G G G G A G C C G A G A A G C A C$

CAGGGGAAGGACCGAGAGGCCAAACAGAAGGGGAAGGCAAAG GAAAAGGGAAGAGAGAGGAAGAAGGACAGAAGAAAGGCCGGA A G GAGGAGGAAAAAAAAAAACAGCCGGAAAAAAAAGGGGGAC CAGAAAGAGTTGGCCGGAGAAGGGAAAGGAACCAAAAAAGGA G G G G G A A A A G G G GAAGGCCGGCACCAAAACAGAAGACGGCCG A GAGAAAAAGGAGGAGGAGAAAAAGAAAAAAAGACCAGEGAA G GAA A GAGGAAAAAAAAAACCGAGGACGGAAAAGAGAGAAAA AGGCCAAAGGGGAAAGAAAAGGAGAAAGAAAAAGGAGGACAG G G GCCGGGGGAAGACAGAGAAAAAAAAGGACAAGGCACAAAG AAAAAGGGGGAAAAAAAAGGAGGATGGGGACCCGGGGGAAAG GAAAAAAGGAGAAAAAAGGAGAAGGAAAAAAAGCCGAAAAGA GAAGGAAAAGGAAGAAAGGCCAAGGAGAGAGGAAAGAAGCCA $A C C C C A C G G G G A A C A A A C A A G G A A A A A G G G G A G A T A G C C G G A$ C G GCCAAAAGGGGGGAAGGGGGGAGGAAGAAAA G G $\mathcal{A} A \operatorname{A} A A A G G G G$ A G G G G G G A A A A A A G G A G G G A G G A A A A A A A G G G G G G G G G G T T A ACCGGAAAAAGAAAAAAAAAGAGGGAAGGAGGGCCGGCAAAG GCCAGAGAGGGAGAGAGGAGAGAGGCAAACATAGAAAAAAGG
 AAAACAAGGGGAGAAAAAAAAGGCCAGAGGAAAAAGGCCGGA GACGAGAAAAAAAAAAAGGGGGACCAAGGGGCCCCAACAAGG GAGGGGGAAGGGGAAAGAGAACCAAGAAAGATTAAAGAAAGA ACAGAAGGGAGAAGGAACAAAAGCCAGAGCAAAAAGGGGCAC ACCAAAAGAAAGGGGGGAAAGCAGAAAGAAAACAAAGGAGAA
 A G G G G G G G G G A GA $\operatorname{G} G \mathrm{G} G \mathrm{G} A A C A A A A G C A A A A A C C A A G G G A A A G$ GAGGAGAGGAAGGGGAAGAGGAGAAGGAGAGGGAGGAAAAAA A G GAA A A G GAACCAAAAGGTTGGAAAAGGAAAACCCCAAGAA A GGCCAGAAAAAAAGCCCCAGAGAACCAACCCCGGGGAAGAA A A A G A G G G G G G A A G G G G G G G G A G A TAAGGGGCAA G CAA GA GA AAGGGCAAGAAAGGGAAGGAAGAGGGGGGGAGGGAAGGAGAA $A G G A G A A A A G G A G A G G G A G A A G A G A A G G G A A G G A A G G G G G G G$ $A C C G G C C G G A A A A C A C C C C G G G G G G T A G C G G G G G G A A C A A A G$ G G GAGAGCGAGAAGAGACAGAGGAGGGAAGGGGAAGAAAGAA AAAGGCCGGAAGGGGAAGGAAGGGGGGAACCGGCAAGGAGAA GAGAGCCCGGAAATTGAGGAAAAAAGGGGGGAAAAGGAAGAG
 A A G GAAAAGGAAAGGAAAAAAAGGCAAAGGAGGAGGGGAGCA GAGCAACAGAAGGGGCCAACCCCAAAAAGAAAAGAACAAGAA G G A A G G A A G A G A A G GACA GAC G GACAAGGAGAGGGCCGGGAA A A A A A A A A A $\mathcal{A} G G G G G G G A G G G A A G G G G A A G G G G G B A A G A A G G$ GAGGGGGGAGACCAAAGGAGGAGAACAGGAAAGAACCGGGGG GAGGAACGAAAGGGGCCGGAAACAAGGGGCXAAGGGAAGGGA G GAGGGACCGGGACCGGGGTTAAAGACGGGGAAGGGAGBACA A GAGGCCAGAGAAACAAAAGGAAAAGGAAAAAAAAAGGAAGAA A A A A A C A A A A A G G A A A G GAGGAAAAAAAAGGACGGGGA G GA G GAGCCGACCAACGGGAAAAAAGAGAGAGAAGGACCGGAGAGA
 AAATTAGGCGGGGGGAAGAAAGGACGGAGAAAGCCCAAAAAA AA $\operatorname{A} G \mathrm{G}$ G GAAGGAAAAAACCAGGGACAAGGGAAAAAAAAAAAC
 A GACAAACCGAAAGAAAGGAACCGGAGGGGGAAGBAAGACAA
 G G G A A A A G G C C G G G G C A A G G G A A G G C C A A C C A A A G A G G G G G A GAGCCAACAGAAAAAAAGAGGAAAGAGAGACTTCAGAAAGAA A A G G G A G A G G A A A A A G GAGGAAGAGGACCAAGGGAGGCAA GA
 G G G A A A A A A G GCCACGAGGGACCGAGAGGGGAGAGGAGAAAA C G A A G G G A A A A A A G G G G G G A G G G C C A A C C A G G A G G C C G G A A A AAGAGCCCCGGAGGGAACCAGAGAAGGGGAAGGCCAAAAAAG

G G GCCAGGAAGGAACAGAGAGACGAGGGGAAGGGGAAGACAA $A G G G G A A G G A A G G G G A G A A A A A C A A A G A G A A G A A G A A G A G A G$ G G G G G G G A A C C A A G G G G G G A A G GAA A G A A G GAGGGGAAAAA A A A A A A A A A A A ACCAACCAAGGGGGGGGCCGGGGGGGGAAGGG GAACCGGAAAAAAGGGGGGCCGGAAAAAAGGGGGGAAGAAAA A A A G G A A G G A A G G A A A A G G G G G G C C G GAAAA A G G G A A A A A A G G G G G G G G A A G G G G G G A A A A G G A A G G A A G G G G A A G G G G A A G G G GAAAAAAAAAAGGGGCAAAGGGGGGAAGGGGGGAAAAGGGGA A G G G G A A A A A A A A G G G G C C A A A A G GAA $A \operatorname{AGGGGGGGGAAAAAA}$ AAAAAAAGGCCGGAAGGAAAAAAAAAAAAAAGGGGAAAAAAG G G GCCGGAAAAGGGGAAGGGGGAGGGAAAGGGGAAGAAAAAG GAAAAAAGGGAAAAAGGAAAAGGGGCCGGAAAGAAGAAAAGA G G G G A A G A A G G A A G G A A G G CA G G A G G A G G A A A A G A A A A GAA A G G A C A A G G A A G G G G A G G G G CA G G A A A A A A A GCCCACAA GACA AAAGGAGCCAAAAAAGAAAGAACGGAAAGCAGGAGAAAAAAC CAAGGAACAAGAAGGGAGGGAAGGAGGAAGAGAGGAAAAAGA G G G G G A A G GA G G GAA $A \operatorname{AGGAACAGCCCAAAGAAAGGAAAGCAA}$ G GAAGAGCCCCCAAGAAGGAGGGAGAAGAGGGAGAAAAAAAC CAAGGGGAGCCAGAACCGGAGACGACCGAAGAAAAAAGGGGG G G G G G A A A A G G A A G G A A A A GAA A CAAGCGGGAGAAA A A GAA G AGGAAAAAAGAATAAGGGGGGAAAAGGGGAAGAGAAACAAAA AACAAGGGAGGGACCAGGGCCAAGGAAAGGAAGGGAGAAAAA A G G G G GAA $A \operatorname{CC} C A A C C A A G G C C G G A A G G G G A A G G A A A A G A A A G$ G G G G G G G T T G G G G C C A A G G A A C C G G C CAA G GAAAA A A $A$ A G G A A G G G G A A G G G G A A G G G G A A A A A A G G A A G G A A C C A A A A C C A A A A G G G G G GCCAAAAAAAAAAGGAAGGAAAACAAAGGGGAAAAG G G G G GAA $A \operatorname{A} A A G G A A A A A A A A G G G G A A G G A A A A A A G G A A G G A$
 GAA $A \operatorname{GAA} A G A A G G A A G G G G G G A A G G A A A A A A G G G G G G G G G G G$ GAAAAAAGGAAAAGGAAGGGGAAAAGGGGGGAACCGAAAGGC C G G G GCC G G A A A A G G C C G G G G C C A A G G G G A A G G G G A A A A G G G G GGAACCGGAAGGAAAAAAGGAAAAGGGGAAAACCCAAAAAA
 A A C G G A A A GA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GACGGAGAAAAAGAAGAGAAAAAAAGGGC CAAAAAACAGGGGGGGGAAAGAAAAAAGGAGAAGGAAGGGGG GAAAAAGGGCCACAGAAGGGGGGGAAAAGGACAGGCCAAGGA AAAGAGGCACCAAAGAGACAGGAAGGAACGGGAGGAGAGAGA CAA A GAAGGGGAAAAGGGAAGAGAAAGAAGGAA GAA GAGAGGA
 GAAAATAGGGGTAAGGGCAGGGAAAAAGAGGAGGGGGGAA $\operatorname{A} A A$ A G G A A G G G GAGGAAAAGGGGGAGGGGAGAGGCACAGAAAGGC CAA $A$ A $\operatorname{A} A A G G A A C G G A A A A A G C C A G A G A A G A A G A A A G G B C C A$ A A A GAAA A A A A A GCCAAGAAAGGGAAAGGGGGAAAAACAAAA
 CAACCCACCAAAGGGAAGGAAGGCAGCGGGGGGGGCCAAGAA A G G G G A A A G G A A A G A G A G G G A G A A A A A A G G G C C G G A G C C G G G AAGGGGGAGGGGGCCGGAGAGAGGGAAGGGAAAGAGGCAGAA A GAAGAAAACAAAAAGACCACGGAAAAGGGACAGGAAAAAAG AAAAAGGCAAGAAAGAACAGGAAGGAAGGCAGGCCAGAGGAA T G G A A $\mathcal{A} G G G G G A A A A A G A A G G G G A A G G G G G G A A C A G G$
$C \subset G G G G A A G G A A A A A A G G G G G G G G A A A A A A G G A A A C C A G G G$ G GAACACAAGGAAACGGAACAAGGGGAAGGAA GGGGGGGGGG
 TAAGGAAGGAAAAGGCCAAGGGACAGAGGGACCAGGAAAGAG GAACAGAAGGGAGGAAAGGGAAAGAGGCCAAAGACGGGGCCA A GAGAGGGAGGAAGGAAAAAAGAGGAGAGAACCAAAAGGCCA ACAAAGGAAAAAAGGAAAAGGGAGGGAAGAAGGAAGGCAGAAA ATTGGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC $C G G G G A A G G G G A G A A A A A G C A G G C C G G A G G G A A G G G A A G A G G$

G G G G G G G G G G GCC GAAGGGAGGAAGAGAGCCGGAGAGAAAAG A GAG $\mathrm{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A}$ GAGAGGCCGGAAAAAAGGCCGGAGAGAGAAG A G A G G G G G G A G A G G G G G A A C C G G C C G G A A C A G G C C G G G G C A A A G GAGAAA $A \operatorname{A} G \mathrm{G}$ G GAAGGAACCAAAAGGGGGGGGAAGGAAAAC CAAAGGAGGGAAAGGGAGAAGAAAATAGAAAAAACCCAAGEG GCCGGACCCAGAAAAGGAACCGGAAGGGGAAAGAGAAAAAAG GCCGGAACCGGGGAACCAAAAAGGGAGAGAGCCGGGGGGGGC CACGGGGGGAAAAGGAAGGGGAAAAGGCCAAAAAAAAGAAAA
 GAGGGGGAAGAGGGGGAAGCCGGCCAAAAAAAAGAGGCAAAA A G GCCGGGGGGGGAAAAAAGGGGAACCGGAACCAAGGGGGGC CAAAAAAAACCACCCAGAAGGAAAAAAGGGGCCAAGGAAACA GAACAGGCCGGCCCCCCAGCAGGGGGGAAGGAAAAAAAAAAA A A A A A CAGGGGCCAAAGCCAAGGAAAAAAGGAAGGAAAAGAA ACCAAAAAAAAGGAAAAGGAAGGAAGGGGGGAAAAAAAAAAA A G GAA A GAAAAGGAAGGGGGGAAGGGGAAAAGGGGAAAAAAA ACCTTGGAAAAGGGGAAGGGGGGCCAAAAGGAACCCCABAAG GAAAAGGAACCCCGGGGGGAAAAAAGGGGAAAAGAAAGGGGG GGGCCCCCCGGAAGGGGAAAAAACCGGAACCAAGGAAGGGGA
 AAAGGGGAAAAGGGGGGAAGGGGAAAAGGGGAAAAAAAACAA A A A A A A A G GAA A G G G G G G G G G A A C C G G A A A A G GAA G GAAAA A A G G G G A A G GAAAAGGGGAAAAAAAAGGCCGGCCAAAAGAAAG G A A A A A A G GCCAA G G A A A A G G T T G G A A G G G GAAAAAAAAA G G GAAGGAAGGGGAAGGAAAAGGGGCCGGAACCAAAAAAGGGGA
 AAAAAGGAAAACCGGAAAAGGGGGGGGAAGAGGGGGAAAGAG GAAGGCCGGGGCCAGGGAATAAAAAGGAAGGAGGGAGAAAAG A G G G G C A G G G G A A G A G G G G A A A C A GAA A A A G GAAA A GA GA G A GAAGGAGGAAGACCAGAGGAAAAGGAAAGGGAAGGAAAAGGG AAAAAGGGAGGAAAATACCGGTTGGCCCCAGCGGGAAGAAAG AACGAAAAAGGGGGGAGCCAAAAAGCAAGAGAGGGAACAAAA
 GAAAACCGGGGAAAAAGGGCAGAAGAAAAGGAACCAACAAAC C G G G G G G A A G G A A A A C C A A G G A A A A G G G GAAGGTTAAAAC C T TAAGGAAGGAAAACCCCGGGGAAGGAAGGTTAAAAAACCGGA A G GAAAAGGCCGGAAAAAACCCCAACCGGGGAAAAAAGGGGA A A A A A G G G G G G G GAA $A \operatorname{GGGGAAGGGGAAGGGGAAAAGAAAAAG}$ GCCGGAAGGAAGGAAAAGGGGAAAAGGCCGGAACCCCAAAAG GCCAAGGCCAAAACCAACCGGGGAAGGGGAACCAAGGGGGGC CAAGGAAGGAAAACCGGGGAAAAAAGGAAGGGGAAAAGGGGG GCCAACCGGGGGGCCTTGGAAAACCCCCCAAAAGGAAAAAAA AGGGGGGCCAAAAGGAAGGAACCAAAAGGGGAAGGAAGGGGG G G G A A A A G GAAAAGGGGAACCCCAAGGCCGGGGGGAAGGGGG G G G A A G G A A A A G G A A G GAA $A$ G GAAAAGGGGAACCCCGGCAAAA
 G G GCCCCAAGGGGAACCAAGGGGAAGGGGGGAAAAGGGGGGC C G GAA $A \operatorname{GGGAAAAGGCCGGAAGGAACCCCAAGGAAAAAAGGA}$ AAAAAGGAAAAGGCCGGGGGGAAAAGGAAAAAAAAGGCCGGA $A C C A A A A G G A A G G A A G G A A G G G G A A A A G G A A G G G G G G G G C C C$ C G GCCAAAAGGAAGGGGAAAAGGAAGGGGAAGGAAGGGGGGG G G G G G A A A A A A A A G GAA A GAAAAAAAGGGGGGGGGGAAAAAA G G A A A A A A $\mathcal{A} G C C G G G G G G G G G G G G A A A A A A G G A A G G A A G A A A A$ $A G G G G A A G G G G G G G G G G G G G G A A G G A A G G T T G G G G C C G G G G A$ A A A A A G G G GAA $A \operatorname{GAAAAAGGAAGGAAAAGGGGCCAAGGGAAAA}$ A A A G G A A A A A A A A A A A A A A A A A A A A A A G G A A G GAAAA G G G G A A A A A A G G G GCC G G G G C C G G A A G G A A A A A A $\mathcal{A} G G G C C G G G G G G C$ C C C G G A A G GAA $A \operatorname{GGGGGGAAAAAAAAAAAAAAACCGGGGAAGGG}$ GAAAAGGGGGGGGAAGGAAAACCGGAAAAGGAAAAAAAAAAG

GAACCGGAAAAAAAAAAGGACAGGGAAGGGGCAAGCCAAAGA A GACCGGAACCAAGGAAGAACCACCGGAAAAGGGAGACCCCC
 GAAGGACGAGGGGGGAAGGGAGGAGAGAGGAGGGAAGGAAAA A G GAA A GAGAAAGGGGGGGGAAGGGCAGGAAAAAGGAAAAGA $G G A C C A G G G G A G A A A A C A A G G A A G G C A G A G G G G G G A A A A A G A$ G GAA $A$ A $\operatorname{A} A A A A C C G A A C A G A A A A G G A G A A G G G G A A G G T A A C A$ G G G G G G G G A A G G G A A A GAA A G A A A A GGGAAGAAAA G GAAC C C C G G A G G A G G A G G G C A G G A G A G G A G G A G A A C C C C G G A A C C G G G GCCGGCCAAAAAAAACCGGAGGGCAAAGGCCGGAGAAGGGAA A A A A GAAACAGGGGGCAGACCAGGAGGCCAAGAGAGGAAAAG
 A A G GAGGGGCCAAGAACGGGGGGGAAAAACCAAGGGGGGGAA A G G G G A A G A C G G G A C G G G G A A G G G G G G G G G G A G C C G G G G A A $C$ AGGAACAGAAAAAGGCGGGGGAGAAAAAGACAGGAGAAACCA $C G G C C G G G G G G G G C C A G A A A A G G G G G G G G G A G G G A A G A G G G A$ G G G G G G G G G G G A A G G A A A A G G G A A G G GACAA A A G A TA G A G G A GAGAAAGAGAGGGGGGGAAAAAAAAGGAAAAAGAAAAAAAGA $G G G A G A A A G G A G G A G G A A G A A A G G A A G G A A G G A G A A C A G A A G$ GGGAACCGGAAGGCCCAGAGGGGACGGACGGGGGGAAAAGGC C G G G GAA $\operatorname{l}$ GAACCGGGGAAGGAAAAAAGACAAGAAAAGAAAA AAAGAGGAAGAAGAGGAAACCAAAAGGGGGACACCAAACAAAA A GAGAAGAGGAAGGAGGAGCCAAAGGGGGAAAAAAGACAAGG $G G A A A A C A G A G A G C C A T G G A A A T G C A A A A A G A G G A C C A A G G A$ $A G G C A A G A G G A G A G G A A A A G G A T G G G A G G A A G A G G G G G A A A C$ AAAAGGGAAGAGGAGGGGAAGCGGACACCGAAGGGAAAGAGA G G G G G G G GAAA A GAAAACCACAGGAAAGGGGAGAGGGAAAAA A G GAGGGAGGGCCCCAGAAAGGGAAGAGAGGAAGGCCAAGAA C C C C A C CAA G GCAA AGAAGCCCCAGAAGAGAGAGACGGAAA G G G G G G A A A GAACCGGCCCCAAGGGGGAAAAAGGAAAAGGGGG G G A G G A A G A G G GA T T G G A C G A A A A G C A A G A A A A A A G G A G C C G GAAGGAAAAGGGGAAGGCCCCGACCAGGAGGGGAGGAAAACC
 ACCGGGAGACCGAGGAGAAGGGAAAAACCGGAACCCAAAAAA AAACGAGAAAGGGGGAAAGAGGGAAGAAGGGCACCGAAAAAA A A A G G A A A A C G C A GAGAGGGGAAGGAGGGAGAACCGGAAAA G GAGAGGAGACCGAGGGGACCATAGAGGGGGACAAAAGGAGAA GAGGGGAGAGGAAGGGGAGAGAAGAGAGGAAGGAAGGGAGAA A G G G G G G A G G G A G A C A G A G A A G G G G G G T T G G A A A A A C G G G G A A G G A A A GAACCAC $C$ C $\mathcal{C} A A G G G A A A G G G G G G G G A A A G A A A A G A G$ G GACAGAAAGGGACCGGGGGGAACAGGAAAGAAAGGGAAAAG
 GAAACGAACGAGAGAAGAAAAGGGGAGAAGAGGACAGAGAAA GAGGGAGAGAGAAGAAAAAAAAAGGGAAAAAACAAAAAAAAG G G GACAGAAGGGGGGAAGGTTAAGCAGGGACAAGGCCAAGAA A G A A A A A A A A GAAAGAGAGAAGAAGGGGGAAACA GACAAA GAG A A GAGAACAGAGGAAAAAAAGAGCCAAAAGGGGGGAAGAAAA G G GAAA A A G G GCCAAGGGAAGAACAGGAGGGGAAGGAGAGAG GAGGGGGGGAACCAAGGAAAAAAGGGGGGGAGGAAAACAACB AAACCGGAAGGCCCCGGAAAAAACCAAAGGAGAGAGG
G G G GACAAGGGGGGAGAAAGCCCAAAAAAACCGGAACAGGA C G G G GAAAAAACCGGGGAAGGCCGGAAGAGGAAGGAAAAGGA C A A A G A G G G A G G G G G A G G G G G C A A G A A A G A A A G A G A G A A G G A AAAAGGGGAGGGAGAAGTTGAAAGGGGCCGGAGAGGAAAGGA A G GAA A GAGGAAACCGAAAAGGGGAAACACGAAGACCAGAAAA A G GAA $A \operatorname{GGG} \mathrm{G} C A \mathrm{~A} C A A A A A A A A A C G G C \subset A A C C G G G A A G G G G G G$ AAGGGAGCAAAAAGAGGGGAAAAGAAGAAGGGGACAAGACAA GAAGGAAAACAGAGGGGAAAAATGGAGGGAGAGGAAAAAAAA AAACCGACCGGAGCAGAGGAAGGGGCCGGGGAACAAAAAGAG

GAGGAGAAACAAAGGGGAGGAGGAACAAAGACAACAAGGGGC C GACACCGGAAGGGGAAAAAGAAGGGGAAAAGGAGAGAAAAA AAAAAGGAAGAGGGAGGAAAACCGGGAGGAAGAAGCGACAGA A G GAAA A A GAGAAAGGGCACCGAGGAAGGCCAAAAAGACAGG GAAAAAGAACCAAGGGGGGGGTTGACGAAGGCCAAGACAAAG GA $A$ A $A G G G A G A A G A G A A A A A G G G G A G G G G A G G A G A A A A C A A A$ A G GAA $A \operatorname{GA} A A \operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} C A A A A G A A A A A C A A G C A G A C C G G G G G$ $G C C C C G G A G A G G G A C A G A G G G A G G A A G G G A A A A G G A A A A A C A$ GACAGAAACAGAGAGCAAAGGGGAAGAAGGAGGGGGAAAATA AAAGAAGCCGAGGGGGCGGGGGGACGGCCGGGGGGGGAACCG GAAAAAGGGAGAAAAGGGGAAAAGAGCAGGAAAAGGGAAGGG A G GA $\operatorname{l}$ GAAAAAAAGGAACCGAGGAAAAAAGGGGGGGAAAAA G GAGGGGAGGGGCCGGGAATAAGAAAAAGAAGAAACAGCAGAG ACAAAAAAGAGGGCAGAGGGAAAAGACGAGGAAGAAGACGCG G GAAACCGGGGACCAAAAGAAGCGCAAAGCAGGACCCGGAGG GAGGAA GACAAGGGAGAGGCAAAGGAAGGAGAGGGGAAAGGC C G GAGGGAAAAAACCGGGAAAGGAAAAAGCCGGAGGGCACAA GCCGGGAAAAGAAAAAAGGACAGGAAAACAAAGGGGGGGGGA
 G G A A A A A G A G G A A A G G A A G C C G G A A A A G G G GAAAA G G G GAA A GAAAAGGGAGAAACCGAAAGAGCGGAAAAGAAGAAAAGGGGC C G G G G G G C C G G A G A G G A G G G G A A A T A G GAGGGGGGAGCACAC GAGGAAGGAAGGGGAACAGGGAAGGAAAAAAACAAGGGAAAA A G G A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} \subset \mathrm{A} G \mathrm{G} G A A A A G A G G A A G A A A A A G G G G G A A G A$ TAA A G A C A GAA $A \operatorname{AGGGGGAAGGAAAGAAGGAGCCAAAAGAGGG}$ A A G G G G G G G A A A A A A G G G G G G G G A A G G A A G GAA $A$ G G GAAAAA AAACCCCGAAGAGGGAAAACCCCAAGGCCGAGGTTAAAAGAG A GACCGGAAGGAACCAACAAGAACAAGGAGGGGAAGGABAAG G G GACGGGGACAAAAAAAAAAGGGGCCAGGGAGAAAGAAGAG GAGGGAGAGGGCAGCGAGAAAGGAAGGAGGAGACAGGGAAGG
 G G GAAGGGAAAGGGGAAAGACCAAAGGGGGGAAAAGGGAAAA C G G A A A A A C A G A G A GAA $A \operatorname{A} A G G G C C A G G G A A G G A G A A G G G G A$ G G G A GCC G G G G A G A A A GAA $A \operatorname{GCC} C A A A A A A A A A A A G A A A G G G G$ G G G A A G G A A A C G A G A G A A A A A G G G G G G C C A A C G A G A G G G G G G GAAGGAGCCAAGAGGAAGGCCAAAGGGAGGAGGAAAAAAAAA A G G G GAAGACCACAAGAAAAGAGAACCGACCGGAGGAGAAAG AAAGGGAGGAACAAAAAACGAACGGGAGAAGAAAAAGAGAGAA A G A G G A A A A A G CAA A A $\mathcal{A} G G G G G G G G C A G G A A T T G A G A G A A C A$
 CAAGGAAGGAAGGAAGGGGAAGGGGGGAAAAAACAGAAAAAG GA $A$ A $C G G G G A G G G A A G G A G G A G G G G C C G G G G A C A A G A A A G G G$ GAGAGGGACGAGGGGGACAAGAGAGAAAAGAAG
$113103000-9 G A A G G G A C G G A G A G A G A A G G G G G A A A A A G G G G A$ A A A A G A ACCACACGGAGGGAGCAAGGAAGGAGGCCGAAAGAA $A C C A A A A G G G G A A G A G G G A C C G G G G G A A G A C G G G G C C G G G G G$ A A GCCAAAGGAGGAGGAAAGGAGAAAGACGGGGAAAGAAG GA $A C C G G A A A A A G G A G G C C G G A G C C G G A G G G G G A A C A A G G A A A A$ $A C C A A A C G G C C A A A G G G A A G G G G G G A A G G G G G G A C A G A C A G A$
 A G G GAGAAGAACCAGGAAAAAAGAACCAGAGGGCCGGAAAAA A A A A A GAAA A GAGAAGGGGAAGGAAGGCAGGACGGGGGAABG GCAGAAGAACCGAGAGAAAAAAGAAAGAAACGAGCAGGAAAG GAAGGAACCGGCAACCCAGGGAAGGGGAAGGAAAAGGTTAAA GAAGGGGAAGGAACCAAGGAAAAAACATTCCAGGGCCGAAGC AAAGGAAGGGAAGGAAAAAGAAAGAAAAGAACAGAACGAAAA A G GAA A G A A A G G A A G G G C A A A G G G GCC G GAGGGAAAACC G G A AAAAACCAACCGGCCGGCCGGAAAACAGGGAAAAAGGGGGGG G G GAAAAGAGAAACCAAAAGGAGGAAGCCGGGAGGAAAAAAG

GAGGGGACAAGAAGAGGAGAGGACCCAGGAAAAGAAGGACAA
 A A A A A G GCAGGAAGGGGCCAAGGGAAGGGCCGGATGGGAAAG GGGAAAACCAAAAAACAGAGGAAGGAATAAGCCAAAAGGGGG $G C C A A A A G G A A A A C C A C A A G G A A G G G A C C G G G G A A G G G G C C A$ GACAAGGACGGAAAAAAGGAAAAAGGACCAGAGAAAAAAGAA A G GCAG GAAAAGGGGCCAAAAGGGGAAGGAAAAAGGGAAAAC CAAGGAAAAAAGGGGCCAAAAGGAAACAAAAAACCGAAACGG A GCAAAAAAAAAAAAGGGGGGACAAGGAAGGAAGGAAAAAAA AAAGGTTAATTCCAAGGGGGGAAAAACAAGAAAAACCGAGAA GAAAAGAGGAAGGCCGGGAAAGGAAACGGAAGAACGAAAAAA G GAAAGGAGGGACGGAAGAAAACGGACAGAGGAAGAAGGGGG AAAGGGGGGAAAGAGAACCAGCAACAAAGAGGAGAAAGAGAA AAACCCCAAAAAACAAGGAAAAAAGGACCAAGAACAGAGAGA GCCGATAAGAAGAACGAGGGGAAGGGAAAAGAA GGAGGGGGC AA $A \operatorname{GGG} G A A A G C C A A G G G A G G G A A G A G A A A A A A G G C C A A G G B$ GAAAAGGAAAAGGGGGGAAAACCGGAGGGCCGGAGGAAAAAA A A G G A GAA A A G TAAAGGCAAGGGGGAATTGGCAAAGGAAAAA AAAGGAGAAAAAAAAAAGGGGAAGGAAGAGGAAGGGGGGGGG GAAGAGAGGCCAAGGGGGGAAAAAACCAGAGAAGAACAGGGG GAACGAGACGGACAAAGCGACGGAGCAAGAAGGCCAGACGGA A GGCCCCAGCAAAGAGGAAAAAAAACCAAAAGGGGGGAAAAA $A G G G G G G A T A A G G G G G G G G A A G G A A G G G G G G G G A A A A C A A A A$ GAAAAAAAGGAAGGGGGGGAAGGAGGGAGCCGGGGGGGGGGG G G G G G G GAA A GAA $A$ A A A A G GAAAAAAAGGGAAAAGCCGGGAGAA GAGAAAGGGAGAGGGAACCGGGGAGAAAGGAGACAGAGACCA
 A GGCCAAAAAAGGAACCAAGGGGAAGGACAAGGGGAGABAAA AAACCAGAGAGAAGAAAAGAAGACCAAGGGGCCCCGAGAAAG AAAAAAGAACAGGAAGGACAGGGAAACGAAAGAGGCCAGAAA A A G G A G G A G G G A G G A G A G G A G T A A A A C G G G G A A G A A A C C G G G GAGAGAGCGAGGAAAAGGGAAAAAAGGACGGACAAACAACCA A A A GAAAAAAGGCAAAAAAAGAGGAGGAACAAAACAAAAGAA
 A G G A A A A A GAACC G GAAAAAACCGGAAAGAAGACCGGGGGGG G G GAAAGCCAAAGGAGAGGAAAAAAAAGGCAAAGGGGAAGAG AAGAGAAGACAGAAAGACCAGAGGGCCCCAAGGGGACAAGAG G GAGGGAGAGAACGGCCAAGAAAACCCCCGGGGAACCAACAG GAAGGAAAGGAAAGGGAAAACGAAGAGGAGGAAAAGGAAACA GAGAAAAGAGAACAAGGGACAAAAACCACAGACGGAGAAAGB GAAGAAAAAAAAAGGCAGGGGACAGAAAAGAAAAAGGGAGAA GAAAAGGCCCACCACCGAAAGAGGGAAAGAAAGAAAAGGGGA G G GAA $A$ A $\operatorname{A} A \operatorname{A} A A G G A A G C A G G G C A G C A A G A G A A A A G G C C G G G$ GAGCAACGGAAAACAGAGGGGGGGAGGGGGGAGACAGGGCCG GAAGGAAGGGGAAAAAGGAAGGGACGAGGGAAAAACCAAAAA $A C C A A G G A G G G A A A A C A G A A C A G A G G A A C A G G G A G G G G G G G G$ GAAAAGAGGGGGGGAGGGGATGGATGAGGAAAAAAAACACAA GAAAGAGGAGAAGCAGAGAAAAGAAGAAAGAAGGAAAAAGGG GAAAGCAGGAAGGAAGGGGCCAAGGAGGGGGCCAGGGGAAAG GAAAAAAAATTAAAAAGCAAAAGGGGGGGAGGGAGAGGAAAG GAAAGGAGGCCGACCAAGAAAAAAGGGCCGGGGAAAAGAAAC C G G A A A A A A A GAA GAA GACAGCAAAGAGGGAGAGGGAACCAA $A G G G A A A G G G G G G A A G G A A A G G G G A G G A A C C A A A G G A A G A G A$ $G C C A A A A G G A A A G A G C A A A A A C C A A A A A A G G A A A G C C A G G G G$

 $G C G G A G A A G A A G A A G G A G G T A G A G G C C A A A A A A G A G G G A A A A$ G A A C A A G A A G G A A G G A GA G C C G GAAGGAAA AC C GACCAA G G G GAATTGGGGAAGGGGCCAAAAAAGGGGGGAAGGGGAAGGGGG

G G GAAAAAAAAGGAAGGAAGGAAGGAAAAAAAAGGGGGGGGT $T G G G G G G A G G A G G A A A A A A G G G G A A A A A A C C G G G G G A A G G A A$
 G G G A A G G G G G G A G A A A A G G G G A A G G G G G G G GAA A A A A G GA G C CAGGGCCGGAGAAGAGAAGAGGAGGAAGGGGAAAAAAGGGGG G G G A A G G G G G A A A A A A A A CAACCAGGGAAAAAAAGGGAGACA A GAAAAAGGGGAAGAAGAAGAAGGAAAGAGGAAAGAAGAAAA AAAGGGGAAGGGGAGAAAAGGAAAAGGAAGGGGGGGAAAGGA A A G A G A A G GAAAAGGGAACAAAGGAGGAAGAAGGGAAAGA GA TGAAGCCAAGGAAAAAGCCGGAAAAGGAAGGAAGAAAGGGGG GAGGAGGAGAGAGAAGACAGGACAAAAGAGGAAAAGGAAAAG GATGAAAACGGGGCATTGGAAGGCCAGGGAAGGGGCCAGAAG A G G A G A G A A GAAAGGAACCAGAAAAGGGAGAGAGAGGGAAAC C A A A C G G A A G A G A A G G A A A G G A A A GAA $A$ A A A C A G T T G G A G G G A A A A A A GAAA A G G GAGGGAAAGAAAAGAAGAAGGAAAA GAGAC CAACCGGCCAAGGGGGGGACAGAAAGGCCAGCCAGAAAAAAG GAAGGAGGAAGAGGAGGTTCCAAGGTAAAGACAGGGAAAA GA
 $A G A A A G G G G G G G G G G A A G G G G A A A A G G G G G G A A A G C C A A G G A$ A A GAGAAGAGAGACCGGCCGAGGGAAAGGAGAGAAAAAAAGC CAACCAAGGAAGGAACCGGGGAAAAAAAAAAGGAGGAAAGGA A GAACCAAGAAAGGAGGATACGAGAGGACCCCAAGCAGGCCG GAGGGACACGAACGGGAAGAAAGGAAGCACAGGAAGGGGCCA GAAAAAAAAAGGAACGGAAGGAAGGGGGGAAAAGGGGGAAAA A G GAA A GAGAACAAAAAAAAACCGGAAAGAGAGGAGGAAAAC $C G G C C A A G G C A G G A G A A A A A A A A G G T T G G G G G G C A G G G A G A G$ A A GAAAGGACAGAGAGAAGGGAAAAGGAGGAAGACAACAAAG A ACCAGAAGAGGGACAGAGGGGACCGGAAAGGGAGAGAGGAA A A G G G GAGGAAGGAAAAGGAAGGAAACAGACGAGAGGAAAAC C G G TAGGCAAGGGAAAAAGGAAAAAAGCCGAACGGAGGAAGA
 GAAGGGGGGGGAAGAGGAAAGACAGCCGGACAGGGAAGGGAA AAAGGGAGGAGCCGGACAGCCGAGAGAAACCGAAAAAAGGAC CACGGAAGGCAGGAAGGGGAAAAAGGGAGCAACGGGGGAABA GAAAAAAAGAGAGGGAACCAGGGAAAAGGAAAAAAGGCAAAA A A A A A $\operatorname{A} G A A G G A A A A G G G G G G G G C C T T G G G G A A A A G G G G G G G$ GAACCAAAAGGAACCAAGGGGCAAACCCCCCAAAAAACCGGG GAAACAAGGGGAAAAAAGGGGAGCGAGAGCCAGAGAGGGGAC C C CA GAA $A$ A $A \operatorname{GAC} C A A A A G G G A G A A A A A G G A A A C A A A A G A A G A$ A A A A A A G G A A A G G A G G A A G G G A G G G G G A A C C G GAACC GAA A A $G G A A G A G G G G A G G A A G G G G C C C C G G G G A A G G A A A G A G C A G A A$
 G G GCCCCGAGAGAGAAAAAGGAAACGGGGAAACACAG
GAATAGGAAAAAGGAAGAAACAAAAAAAGGGGAAGGAAAAG GACAAAGGACGCCGGAGAGAAAGCGGGGAAGACCAACCGGAA A A GCCGGGGAGGGAAGGAAGGGGACAGAAGGGGA GAAAAA G G $A$ GAGGGAAGAGGCCGGAAAAAAAAGGCCAAAAGGCAAAACGGA GAGGGGGAAAGAAAGAAAGGGACAGAAGGAAACGGGGAGACC AA $A \operatorname{GGG} \operatorname{GA} A A A A A A C C G A G A A G G A G G G G A A A A G G C C G G C A G A G$
 GCGCCGAGGGGGAACATCAGAATAGAAATAAAAGGAAAACAG $G G A G G G G G G G A G G A G A A G G G G A A A G A A A A G G A G G G A C G G G G G$ GAAAAGGGGGGGGGGCCAGGAGGAAAAGGAAGGAGGAACAAA $G C A A G A G A A A C G A G G G A A G C C G G A G A A G A G G A A A A G G C A A A A$ G GAAAAAGAGGAAGGGGAAAAGGAAAAGAAGAAAAAAGAACG G G G A C G A A A G G G G A A A A A A G G G G G G A A A A A A G G G G G G G A G A A GAAAAGAGGGGGAAGCCAGCCAGAGACAGAGCCGGGAAAGAA A G GAA A G G $A \operatorname{AGGGGGGCCGAGGGGAAAGAAGGAAAGAAAAAAG}$ AAAGGCCTTACACGAGAGGGAGGGGGACCAAAGGGATAAGGG

G GAAGGGGAGAAAGGGAGAAAAAAAGGCCGGGGAAAACCGGA A A A A A A A G G A A A A A A G G G GCCGGGGCCGGAGGGAAAAG GACA A GGCCCCAAGGAAAAAAAAAGGGAAGGAGAGGGGGGGGAAGA
 A GAA $\operatorname{A} A A A A G A G G G G C A A A G A A G G A C A A G G A A A A G A G G G G G G$ GAAGGAAGGAAAAAAGAAGGGCCAAAAGAGAAGAACAAAAGB GAAAAAGGGAAAAAAGAAAGGGGAAGGAAAAGGGGAAAACCG G G G A A A CAGAGATAAGGAAAGAAGAGGGGGGCAGGAAGGAAA G G G G G A A A A G GCCAACCGAAGGAACCACAGGAACCCCAACCA GAAAGGGAGAAAGGGGGAGAAGGAAGAGAAAGGGGGAAGAAG G GA A A GAGCGGAAGAGGGGAGAGAAGGGGAAGGCCAAGAAAA A G G G GCAGGGAGGGAATAGGGAAGAAGGGGAGGGGGAAAAAC CAAAACCGGAAGGGACAAAACAAGGAAGGAAGGAGGGGGGGG GACAAAGGAGCCAAAAGAAAGGGGAAAGAAATAGGGAGAGAG A G GAA A GCCAA G GCCCCGGGGGGGGAAAAGGAAAAGGGGCCC C G GAA A A A G G GCAA A G G G G G GAGAGAGCAGGGAAAAACAA GA C C A A G G G G A G G A G G G A A G G G G G G G G G G A C A G A A $\mathcal{A} A G G G G A G G$ GAAGGGGAACCTTGGCCCCGGAACCAAAAAAAAAGEAGATAA $G G A A G G A A A G G A A G G A A A A G G G G G G G A A A G G G G C C G G C G G G G$ GAAAACCAGAGGGAGGGAAGGAAAGAGACGGAAGABACAGGG G G GCGGGAGAGAGGGGGTTGAGGAAGGAGAAAGGAAAACAAA A A A G A A A A A A A A A A A GAGAAGACGCCCGGGAAGAAAAGAAAA GCCGGGGGAATAGGGGACCGGAAGGACACGAAAAGACGAGAA A G G A A GACCAAAGAAGGCCGGAAAAAAGGTTAAAAAAGGCCA ACCGGAACCAAAAAAAAGGCCAAGGGGCCAAGGAAGGAAGAA A A A A A A A A A A A G GCCAAGGGGAAAACCCCCCAAAACCCCGGA A G GAAAAAAGGTTGGGGGGCCGGCCAAGGAAAAGGAAAAAAG $G C C A A A A A A G G A A G G G G T T G G G G A A A A C C A A G G A G A A G G G G A$ A GAGGAAGGAAGGAAAAAAAGAGGGACAGGGAAAAAGGAAGAA $A C A A A A A A A G G A G A A A A A A C C C C G G A A A G G G A A G A C A A A A G A$ A G G A A GAAAAAAACAGGAAAAAAAAAGGAGAAAAAGAGAAAA AAAGGGAGAGGAAAAAAGGGGGAGGAAGGACAAGGGGGAAAG GCCAGAAGGAACCCCGGAGAAGGAAGACACAGGAGACAAAAA G G G G G A T G G C C G G A G G A G G G A G G G A A A A A G G G G A A A A A A G A C A A A A GCCCCGGAAGGGGCCAGGGAACCGGAAAAGGGGCAGAG $G C A G G A C A A G G A A A G A G C A G A A G G A A A A A C A G G C A G G G A A A A$ GAACCGGGGGGAGACAAGGAGGAAAAGACGAGGAAGAAAAAA A A GAACCAAGGGGCCGGAGGGAGAAAGAGAGAAGGAAGAAGA GACGGGAGGGGGGAAAAGGTAAGGAAAAAAGAGAAAAAGGGG
 G G G G G G G A G G A G GAA $A \operatorname{AGACAGAGCAAGAAAAGAGGGGCAGAC}$ A G GCCGGAAAGAAAAGGAAAAAGAGATAAAGACGAGAAAAAA AAGCCAAAGAAACGAAGCCGAGGGGGGCCAAGGACTTCAAGG

 GAGACTTAGGAAGAACCGGAGAAGGAGAGCAAAGGGGGAAAC A A A A A C G G G G G A A A A A A A A A GAACCACAAGGGAAGAGAAGAC CAACCAAGGGGGGAGGGGGCAAGGGGGGGAGGAGGAGGAAGA AAAACGGGGCCAAAAAGAAGGAAGAAGAAGACCGGAAGAAAA

 C G G G GAA $\operatorname{G}$ GAACCAATTCCGGGGAAGGATCAACAC GAGAGAC C A A A A G G G G G G G G A A A A A G T A C A G A A G A A A G G G A G G A C A A G A A GGAAGAGACCAGCCCAGGGAAAAAAGAAGGAGAGAAAGGGA G G G G G G G A A A G GAGGAAGGCAAGAAGAGGGGAGAAAAGAAAA GAAAAGGGGAGGGAGAAAGAAGGGGAGAGAAGGGAAAGAA GA

 AAAAACCACAGAAAAAAGGAAGAATTAACAAAAGAAGAGAAG

GAGAAGAGGGGAACGGGAAACGGGGCCAGTAACGGGACAAGG G G G A A A A A A GAGGAAACGAAAGACCAAGAGAACBAAGGGGGA GAGAACCGGAAGAAAAGGGCAAAGAAAAAAGGGGGGGAGCCC G G GAGCGAAAAAGAACCAACGGGGGGGGGAACAGAGGAAAAG GAAAAGGGGAAAGAAAGGAGGAACCGAAGAGCAAAGGTXACA ACCGGCCGAAAGGGAAAAGGAAAGGGGGAAACAAAAAGGGGG G G G A A A G G G G G G G C A A A G G A A A A A A G GAA G G G GAAC C G A A TA AACGGCCGAGGAAAAAAAGAAGGGATAAGAAAAGGAAGAGGG A A GCCGAGGAAGGAGGGGCCAAGAAGACCGGGGGGCACAAGG G G G GAACAGGAGGAATAAGAGAGGAAAGGAAAAAAGAGGGGA GAGAGGGAGAAAGTAAAAGAAGGGGAAAGCCAAAAAAACGET TGGAAGGCCGGGGGACCGAACCAGAAGCACACCCCTTGXTAT
 G G G G G GAAA A A A G GAGAAACCAAAAGGGAGGAAGGCCGAGAA A A GAGGAAACAGGCAGACCAAGGGGGGAAGGAAGGGGAGGAA A G G G GCCAAGGTTGGGAGAAAGACCAGAGAGAGAAGGGAGAC A GACACCAAAGGGAGCAGAAGGAAACCAAACGGTTAGAAGEC A G G A A A A A A G G G A C C A A A A G G G G G GAAAAAAA A G G GAA G G G G A A G G A A G G G GCCGGGGGAGGGAGACCCCCCGACATTGAAAAGA A A A G G A A A A G G A A A GAGGGCCGGGGGGGGAAAAAAAGA GAAA GAGAAAAGGGAGGAGGGAAAGCCCAGGGAGAGGAGGGAACAA AAAAAGGCCAAAAGGAACCGACAACAAGGACAGCCCAGAAAA GAGCCAGGGGGGGAGACGAAGCCGGAGGGAGGGAGGAGAGAG GCCGAAGGGAAGGAGCCAGAAAACCAGTAGAACGGCCGAGAG $A G G A A G A A A G G G G G G G G G G C C G G G G A A A A A A G A G A A A A A G G A$ A A A A A A A G GCC $C$ G G G GAA $A \operatorname{GAA} A G G G G G A A G G A C A A A G C A C A G$ A GAGGACGAAAGGAGCCGGGGGGGGAAGGAGAGAGAGAAAGA
 GAAGGAACATTAAAAAACCGGGAAAAAAAAAAGCCAAAAGAA A A A A A A A ACAAAAAAAAAAGAAGGAAAGGGAACCCGAGAAAA A G GCCAAAGGACACCGGAAAGCCGGAAGAGAGGCCAAAAGAA AAAAAAAAAAGACAGCCAAAAGGCCGGAAAGAGAAGAGGGGA A G G G G A A G GCATAAGAGGAAAAAAAAAAACAAAGAAAGGCCG G G GACAGAGCGGGGGAAGGACAGGGAAAGGAGCGAACCAACA A A A A A GA $\operatorname{A} A A G G G A G C C G G A A A A C A G G A A A G G G G A T T G A A A A$ $A C C C C G G C C G G A A A A A A C C A A A A G G A A A A A G A A A A A A A A G B A$ A G G G G T T A A G A A A A G G A GAGGGGAAAAGGGGAAGGCCA G GA G G G G G G G GA G GACC G G GACCAGACGGTAAGGAGGCCGAAAGAA A ACGGAAAAGGGGAGGGAGGAAAGGACGGGGAAGGAAAAAAG A A A A A G G G A A T CA $A$ A A A A A GAGGGGAGAAAAACTTAAAACAG GAAAAAAAAAAGAGGAGACCCGGTTAGAAAAAAAAGGGBCCA A A A G G G G G G G G C G G C G G A A G G A G G G G G G G G A G G A A A C G A G A T TAAGAAAAAAAGGAAGGAAGAGGGGAAAGAAATGGAA
AAAAGGGAAACCGGGGGAGAAGAAGGGGGAACAGAGGAGCG A G GACGAAGCCAACCGAAGGGCAGGGGAACAAAGAGGGGGAG G G G G G G G G A A A A A G GAGGAAAGGAAAGAAAAAAGAAAAAAA A $A$ GGGCCCCGGGGAAAAAACCGGGGCCAAAAGGCCGGGGGATTA GAGCGAAGGCAAAAACCAAAAACAAGGAGAAGGAAAACAAAT TAAAAACAGAAAAAAGGAAAAAAGAAAAAGGAGAGGGGAAAG
 $A A G C C A A G G A G A G G A C A C C G G G G A C A G A A G G G G A A G G G G G G G$ $A G A C A G G A A A A G G A A G G A A G G G G G G A A G G G G A G T T A A G A A A G$
 A G GAGCCGGAAGGAGGGAGGGCCAAGGAGGGGAGAAGGGGGA GAACGAACAAAGGAAAAAGAGGAAAAAACGGAAAAAGAGCAG GAAGGAGACGGGGCCAGGGAAAAGGAGAAAGGAAAAGGAAGA

 G G G G G A A G G A A G G A A G G G G G G G G G G A A G A G G G G A A G A G G A A A

C G G GAGGAGTAAAGAGGGAGAGAAGGGACAAAAAATTGGAGA A A A A G A A A GAA $A \operatorname{GGG} \operatorname{GA} A A A A G A A A G A G G G C G A G A C T T A A A G G$ G G GAGAGAAGGAAGGCCGGAGGGCCGGAACCAGGAAAAAAAG AAAGAGGCCGGGAACGAGAAAAAGGCAATCCAAGGAACAAAA $C G G A G A G G A A C A G G A G G G G C C A A G G A A G G G G A A G A G A G A A A C$
 AAACCCCAACAGGAGAAAAAGAGAACCAACACAAGEACAAAG AACCAGGGAAAGGGGAAGCAAGGAAGGGGAGAGAAGAGGGGG A GAAAAAGGAGGAGGAACCAAAGGAACGGAGGGACAGCCAGA G GAGGAGCCGGCCGACCGAGAGAGGACGGGGGGAGAACAAAA $G C C A A G G G C G A A A C G G A G A G G A C A A A A A G A A A A C C G G G G G G A$ $A C A G A A G A G G G A A G G G A A A G G A A A G G G A A A A G G G G G G G A A G A$ G GAGGAAGGCCAACCAGGGGGGGAGAAACGAAGGGGAGAGGG CAGAGAAAAAGAACAGGAAAAAAGGGGAGAAGAACCCCCGGG ACAAAAAAGAGGAGAGGGGAAGGAAGGGGGGAAGGGACAAAA AACAGGGAGAAAAGGAGAAAAAGGAAAGGAGAAAAAAGGGGG G G GCCAAGGAAGGGGAGGAGAGGAGAGAAAGAAGAGGAAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGGAAGAGAGCACAA GA CAAGGGGGAGGGGAAGAAAGGGGGGAAGGAGAGAAAAAAAAG $A C C A A G A G A G A A A A G C C G G A A A A A A G G A C G G A G A A A A A A A A G$ G GAAACCGGGGGGGAGAAAGGAGAAAAGAAGACAAGAGGAGG A GAGAGAGGCCGGAACCGGGGGGAGGGGGACGGGAGGAGGAG GAGAGAGGGGGAAGGGGGGACGAGAAAAAGAAAAGGGAACCG A A A A G A A G G G A A GCGGAAAACGGAAAAGGAAAGACGAGACAA A G GA $\operatorname{A} G A C C G G A C A G G G A A A A G G C C G G A A G G A C A G A A G A A A G$ $A C C G G G G A G A G G A G G A A G G T T A G A A G A A G G A G A G G A C G A G G A$ AAAGGGGCCCCAGGAGAAGAAAGAAGGCAAGGACCGAAAAAG GAAAAGGGGAAGAGGAAGGGGAAGGAGGGCCGAAGAGAAAAG GAAAAGAGAGGAAGAAAAGAGAGAAAGGAAAGGGCGGGGGGA GAGGGAGGGGGAACCAAAGAGGGGGAAGGCCGGTTGAAACAA A A A G A G G A G G G A A G G G A G G A A G G A A G A G G G G G A C A A A G A C A A GAGAGGGAAAAAAGAAGGAGGGGAAAGAGGGGGGGCAAGCCC CAAAAAAGGAAAAGGCAAGGGAGAAAAAAAAGGAGAGGGCCG G G GAA $A \operatorname{GGG} \operatorname{GAAAAAGCCAAAAGGAAAAAAAAAAAAAAAACAG}$ GAAG $A \operatorname{A} A A A G A G G G G G G G G G A G A A G G A G G G C A A G C G G G G G C C A$ A A A C C G A A GAAGGAAAAGGAAAAGGAACCGAGGCCAAAAAAG $A C C G A A G A A A A A A A A G G A A A A G G G G A G A A G A G G G A A A G A A G G$ GAAAACCAAAAAAGGCCGGCCAGGAAGAAGGAGGAAAAAGAA A G G G G G G A C G A G G A G A A G A A A C C A A GAGAGGGGAAAAAA A G C C G G G G A A G G G A GAA A TA $A \operatorname{AGGGGGCCCCGGGGGAGGAGGAAAC}$ G G G G GCCAGGAAAAAAGAGGGGAAGGACAAGAAAGAGGAGA G A G G G G C A A A A G A G A G G G G A G A G G A A G G C A G G A A $\mathcal{A} A G G G G G G A$ AGGAGGGACGGCAGGAAACAAGAGGGACCAAGAAAGGAGAGC A G G G G GACAGACCCCAGGGAGAGAGGAAAGACCATAAGGCCA A G G G G G G A C A A G G A A A A A A G G GAGGAAGGGGAAGAAAA A A A A G G G A A A G G G G G A A G G A C A A G A G C A G G G G G G A G G G G G A A G G G G G GAAAAGGGGGGAAAACCGGGGGGAACCAAAAAACCGGAGAAG A A A A A A A A A A GAAAAAAGGAGAACCGAGAAAAGCAAGAA GAA A A G G GA $A \operatorname{GA} A G G A A G A A G A G A G A A G C G A A G G A G G A G G G A A A G$ A A GAGATAGAAAAGAAGAAAAAGGGGGAAATAACCGACCCCC CAAAAAGAAGGGGGGAAAAAAAAGGGGGAAGAAGGCCCAGAA $A C C A A A A G G G G A A G G A A A A A G G G G A A G A G A G G G A G G G A A A A G$ G G A A A G A T A C C G G G GCCGGAAAAC CAAAAGGAACCGGGGCCG G G GAAAAAAAAGGGGGGCCGGCCAAAAAAGGGGGGAAGGGGA AAAAAAAAAGGGGAACCGGAAAAAAAAAAAAAAGAAAGAGGG A A G G A A G G G G G A A $\mathcal{A} G G G G G G G A A A A G G A A A C G A A G A G A G G G A$
 GAGGGAAAAAAGGAAGAAAAAGAAAGAAAAAGGAAAAGGAAA AAAAAAAAAGGAAGGGGAGGAGGAGAGAAAAGAGGCCAAAGA

A A G GAGAGGAAGAGGGGGGGGGGAAAGGGAAGAGAGGGAAAA
 G G GAAAAGGGGGGAGAGAAAAAATTGAAACCAAAAAAAGGGG G GACCAAGAAGCAGCAGGGCCAGCCGAAGAGAGGGGGGAAAA A G GAGCCAAAAAAGGAAGGGGCCGGAAAAAACCCCAAGGGGG G A A A A T T G GAA $A \operatorname{GAA} A G G G G A A G G A A A A G G G G G G G G A C A A A A G$
 C G G A A A A A G G G A A A A G GAGGAGGAGGGAGAGGAACAGCAAGAG A G A A G G G A A G G A A G G G G G G G G T T G G A G A A G G A A A A G G C A C G G G GAAAGGGAAGGAAGCAGACAAGGAAAGGAAGGAAGGAAACA T GATTAGCAAGAAAACAAGGAAAAAAAGGGGGGGGGGAGGAG
 TCCGGGGAAAACCAAGACCAGGGAGAAAAAAGGCAGAAAAAA A G G G A G G A A G G G G A A G GCCCCAACCGGAAAGTAGG GAA G G GA A GAAAAGAACGGAAGCACAAGAGGGTTGACCGAACCGAACCG GAAAAGGGGGGCAAGAGAAGGAAGGCCAAAAGGAAAACAAGA C G G G G G G A G C A A G A A A A $\mathcal{A} G G G G G G G A A G G G A G A T T G G G G G G G$ A G G A A A GAGGGGGAAGAGGGAAAAGGGAAGGAAGCCCAAAAA A GAGGAACAAGAGGGAAAGAAGGAAAATTAGGAACGGAAAAG CACAACCGGAGAAAAAAAACAGGGAGAGCAGAGAGAAAAABC $C G G A C G G C A A A A C G G G G G G A A A A G G A A A A G A G G A G A A A A G G A$ G GAGGGAGAGGGAAGAGGGGAACAGGGGAAAAAGGAAGGCCG GAAGGAAGGAAGGCCGGAAAAAAAGATGAAAAGAGCCGAAAG GAAGGGGAAGAGAAAAGCCGGAAGGAAAGAAAGGGAGAAAAC
 GAAGGAAGGAAAAGGGAAGAAAGAAGGACAAAGAGCAGEAGG GGACCGCAAAGGGAAAAGGAACAAGAAAAAAGGAGAGCAAGG G A A A A G G G G A A G A G A A $\mathcal{A} G G G G G G G G G A G G A A A C A A G G C C G G G$ GACGAAAGGCCGGAAGGAAAAGACCAAGGAGAAAAGAAAGGG GTTAGGAGAAAAAAAACAATAACGAGAGGAGAAGACAGGGGA $A C C G A A G A G A A G G A A A A T T A C A C G A G G A G G G G G A A A G G G G G A$ AAAAACAAACCGACCGGAGGACCAAGGAAGGAAGGGGGGAGA $A C \subset A A A A A A A A G G A A A A A A A G G G A G A G A G G A G A G G G A G A A G A$ AAAAAAAGACCGAGGAAGGGGGGGAGACAGGGGGGAAAAAAA A A A A ACCAAAGACGACAAAGGGGCCAGGGACAAGGAAAAGAA AACAAGGGGAAAGCAAAAAAAAAAAAGGAGAGGGAAGAAACG AAAACCGAGGGGGAAGGGGCCGGGGGGAGAAAAATAGGAGAG GAAGAAGGAGGAGAGGAAAAGAACCGAAAGGGAGAGAACAAG
 G GAGAAA GAAAAGAAACCCGAAACCAAGGGGGAGGGGGGGGG $G C A A G A G G G A A G A G A A A G G A A A A G A A A G G C A A G C G A A G G G G A$ A G GAACCAAAAGGGAAAAAGGCCAAAACCAGCCCCGAAAAAA G GAA A A G TAAC $A \operatorname{A} G A T A A G G A A A A G G G G G G G A G A A G A G$
A A GAA A G GAAAAAACCGGAGGGAGGAGGAGAAAGGGGAAAG GAA A G G A G G G G A A G G G G G A A A G G A A GAA A G G G G G GAAA A CA A G G G A A A G A A G G G G A A C A GAAAAA A $\mathcal{A} G G G G G G A A C A A G G G A G G G$ G G GCAGGAAAAGGCCGGAGGGAGCCCAGGAAGAGGAACAAAA
 AAAAAAAGGGGAGAGGGGGGGGGACGAAGGGAGAAGGAGACA GAAATAGGAAGAGAAAAAAAAAAAAGGGGGGAGACAAAGCCG AAGGGCCGGGGAAAAGGGGGAAAAGAAAGAACCAAGGAGAAA A GAAA A A A A G G GA $A \operatorname{AAGGAGAGAAGGGGGGAAA} \operatorname{A} A A G G G G A A B A$ $A G G C A G G A A G G G A G G G G G A G G G G A A G G A A A A A C A C A G A A G G G$ AA $A$ A A G GAGAGAGAGGGAAAAGAAGGAAGGGGGGAAGAAAGA G G GAA $A \operatorname{GAAAA} A A A A G G A A A G G A G A G G A A G G G A A A G G A C A G A$ GAAAAGACCGGAAAACAAGAAGGAAAGAGGGAAGGACGGGGG GCCGGAAGGAAAAGAGGGGGGAAAAGGGGGAAAAAGAGAGAG A A C A C A C G G A G A G A T G G G A A GA G C C A A A G GA G GAA G G G G G G A $C G G G G G G C A G G A G A G A G C A A G C C G G G A A A A C A A G A A A A A G G G$

GAAAAGGGAGGAAGGCCGGAAGAAGGGAGGGAAAAGAAAAAG G G GCCCCGGGGCCGGAAGGAAAAGGAACCGGGGAAGAAAAAA A G GAAAAAAAAGGGGGGGGGGGCCGGAAGGCCGGGGAAAAG GACGGAGGGAACCAGAATTAAGAGGGGGGCCGGTAAGAAGGA GAGAGGAAAACCCAAGGAAGGAAGGAGGGGGGAGGCCBAGGA GCCACGGGAAACCGGAAGGGGACAGGGCAGAGGGGGAGAGCA C G GA $\operatorname{G} G \mathrm{G} G \mathrm{G} C \subset A A A C G G C \subset A A G G G G A A C C G G G G G G A G G G G G G$ $G C A C A C G A G A A A A A A G G A A G G G G G G G A G G A C G A G A G A A C A C B$ G GAGGGAAGCCCCAGGGGGAAGGGGGGAGGAAGCAAAAGAGB G G G G GAAAGACGGGGAAGGGACCGACCGGCCAAGGAGAAACA GAGAGGGGAACGGAGGGCCGGGGAGGGGACCAGGGCCGAAGG A G G G G A A A GA G G GC CAA $A \operatorname{AGGGAACCAGGGGGGGAGAAGGGGG}$ G GAAGGGGAGAAAGGGAAAAAAAAAAGGGAAGGCCAAAAAGAG $G G G A A G G C C G G G G G A C C A A A A G A G A C C G G A A A A G A A A A G G G A$ GCCGGGAAAGGAACCGAAAGGAGAGAAAAGAGGAGAGGGGGA G G GAA $A \operatorname{A} A A T T G G G G C C G G A A G G G A C C A A G G G G G G C A G A A A A$
 A G GAGGGAAGGAGAAGGACAGAAGGAGAGCAGGAAACCCAGB $G G G A G G A A C G G C A G G G A A G G G A A G G A A A A G A A G A A A G A A G G A$ A G G G A A A A GAAAAAAAAGGGGAAGGAAGGAAAAAAAAAAGAT TGGAAAAGGGGGAGGGACCAGGGAGAAAGGGAGAAAACAAAC C G G G G A G G A GAAAAGGGAGCCAAGGCCAAAAAAGGAAAACCA A GAACGGAGGGGGAAAGGGCAGAAAAAAAAAAGAAGGCAAAA ACCAGGGCCGGAGAAGAGAGAAAGGGGGAGGGAAACCBAAAA G G G G GCCCCAAGAACAAGAAGAAGGGCGGCCAGGAAAGGTAC CAGGGAAAGAAAGGAAAACGGAGAAAACGCCCCAACAAAABC CAAAAGGCCAAAGGGGGGGGGAAAGAGCCCCAAAAAAGGGGG $G C C A G C A C A G A G G A A A A G A A A A G G G A C A A G G A A G G A A G A G G A$ AAAAAGAAACAAAGGCGAAAAAAGGAAGAACAGAAAAGGGAA GGAAGCAAACCGAAACCAAAACCAACCAAAAAAGGAGGAAAA G G G A G A G C A A C A A A A G G A A A A G A G GAACAAGGGAGAGAACCC ACGACGGAAAAGGGAAAGAAAAGCCGGGGAAAAAAAAAAAAC A A A G G A A A G G A G G G GAACCAGGAGGGGAGGGAAGGAACAGAA GACGAAGAAGACCACGAACGGGAAAGAAAGGCACCAAAGGAA A GAGAAAAAAGGAAGAGACACAAAAAAGGAGGGAGAAAAAAG G G G G A G G G G G G A G A A A A GAATGGGGGGAAGAAAGAAGAAAAC C GAAGGAGGAGGGAATTAAAAAAGGCAAACCGGAGACACAAA $A C C G G A A G G A A A A G G G G A A A G A G C G G G G G A A A A A A C A G A A C B$ G G G A A A A A A G G A A A GAGAA $A \operatorname{AGGGAGGGGGCCAGAAAAAAGAA}$
 $A C C A A G G A C A C G G G G A A A C A A G G A G G G A A G G G C A G G A A A G G A$ A A A G G A A G G A G G G G C A G G G G G A A G G G G G A C C A A G G A G C C G G G GGGCAAAAAAAAGAGACGAAGGGAATAAACCAGAACAGGCAG GAAAAAAGGAAGGAAAAAACCAAGAAAGGAAGGGGGAAACAA C C CAAAAAAGGAAAAGGAAAGGGAAAAGGAGAGAAGAACAAA CAAAGACGGAAAACCAGAGACAAGGGAAGACGGAAGAAAAA G GAAGGCCGGAACCGGGGAAAACCGGGGAGCCAGGAGAACTAA A A A A A A A G G G G G G G G G A G G A A A A G G GAGGGAAAAATTCAAAA A G G G GACAACCAGGAGGAAAAAAGGAGAAGAAAGGAAAAAAC CAAGAAAGGAAAAGAAGCACCGGACGGGGAAAAAAAACAAAC CAAAAGGAGCCCAGGGGCCGATAGGAAAACCAAAAAGACGGG GAAAAAACCGGAAAAGGGGAAAAAAGGGGAAAGAGAGGAAAAG
 AGGGGAAGGCCAAAACCAACCAACCCCGGCCAAGGAAAAAAG G G GAAAAGGAACCCCAAAAAAGGGGAAAAAAAAAAAAGGGGG G G G A A T T G G G G C C G G G G G G G G A A G G G G A A A A A A C CAA G GAA $C$ C G G G G A A C C G G A A A A G GAA A GAACCGGGGAAAAGGAAAAAA G GAAGGGGGGAAGGGGGGAAAAGGGGAAAAGGGGGGAAGAGGA AAACCGGGGAAAAAAAAAACCAAAAAAAACCAAAAGGAAAAG

GAAAACCAAAAAAGGGGAAAAGGAAAACCAAAAAAAAGAAAA A G G A A G G G G A A A A A A A A A A G G G G G G A A A A A A A A A A G G G G C C A
 GGGAAAAAGGGGCAGGGAGAAGAGAGGAGGAAAAGAGAAGAA A G G G G GAACAAAGGGAAAAAAGGGGCGAAGAAAGGAAAAGGG GAAGAAAAAGATTGGAAAAAAAAAACCAAGGGGAAAACAAAG GAAAAGGGGGGGGGGCCAGGGGGAGGAAGGAGGGGAACAAAG G G G G GAA $\operatorname{G}$ GAAGGAAAAGGGGGGAGGGAAACGGAAGAATAAA G G G A A A A G G G G G G G GAAAAAAAAACCCAACAAAAAAGGCCCCG G G G G GAGGAAACCGGGGAGAGGAGGGGCCGGAAAAGAAAAAG A GAGAAAAAGGGAGGAGAGAGGGAAGGAGCAAACAAGAAAAG GAGCAAGGGAAGGAAAAAGGGAGGAGAAAAAGACAAGGACCA A G G A A A A T T A A $\mathcal{A} G G A G G A A G G A A A A G G A A A A G G G G G G T X A A A$ A TAG $\mathrm{T} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{~A} A C C A A A A G G C C G A G G A A A A A A G G G G A A C A G$ G G G G G A G G G A A A A G GAAGGGAAAGGAACCGAAAAAAAAAACA $C C C A G C A G G G G A A G G G G T T A A A A A A A A G G A G C C G G G G C A G G A$
 A A A A A A A A A G G GACC GAA $\mathcal{A} A A A G C A G G G G A A A A G A G G G A A A A$ $G G G A A G G A A G G A A G C G A G G G G G G A A G G A A C C G G G G G A A G G A A$
 G GACCGGGGCCGGCCCCGGGGGGAAAGAGCCACCAAGGGACA GAGAGAACCAACAGGAAGAGGAAGGGGAGCAAAGGAGGAGAA G G A G A G A T T G GAGGGGAAAGGGACGGACAAGAGCAGAAGAAA GAAAAGGAAAAGGGGGGGAGGAGGGGGGAGGAAGAGGGAGAA GAAGGGAGAAACCGAGAAAGGGGGGCCGGAAGGAGAAAAGAG G G G G G A A G G G G A A A A C C G G G G G A A A G G G G G G G G A G G A A A G $G A$ A G GAA A GCCAA G G G GAACAGAGGAAAGAAAGGAGGGGGACAC A A GAGAGACGGAAAGGAGGAGAAGGGGGGGGCAGAAAGACCG G GAAAAGCAGGCCAGAGAAAAGGTTAGGGGGGGAAGGCAAGG GAAAAAGCCAGGGGGCCCCGGAACCGGGGAAAAGGGGAAGAA A G G G GCC G G A A A A G G G G G G G A G G G G C C A A A A A A A A A A A A GAA AAACAAAGGGGGGGGCAAAGGGGGGGGAAAAAAAGCCAAAAC CTTAGGGAAGAGAGAAGCCGGACCAAAGGCCAAAACCGAGGC C G G G G G GAACCGGAAAGAAAGAAAGAAAAACGAAGCCCAGAA A A G G GCC G GAGGGGGGGAGAGAACAGACCAAGGAGAAGAAAG GCCAAGGAAAAGGGGAAGGCAAAGAAAGGGGCCAAAAAAGAA AACAGGGAAAGGAGACCGGGAGGGAAGCACGGAGAGAGAAGA AAAGGGGAAGGGGAAAAAAGAAAGGGACAGAAGAAGAAAGAA A A A G G A A A A A A A A G G G G G G GAGGCCAAAACAAAAAGGGAAA G GCCGGCAGACCGAAGGAAAGGAAGGGGGGAATTGGGGCAAAA AAACCAAGACAGAAAAATAAAAAAACCAAGGGGAAGGAAAAG A G A C C A A G GAA A G G GAAAGGGGGCCCCGGCCGGAAAAAAAAG AGAACGAACCACAAAGGAGACCCAAAGCAAGAACCGG
G GAA $A \operatorname{GAA} A G C \subset A A A A A A A A G G G G G A A G A A G G G A C A G G G A G$ G G G G G G G G GAAAA A $A \operatorname{AGGCCGGCCAGAGGGGAAGGAAGAAAAG}$ GACAACAGAGAGGGGGGACAAGGGGCCAGAGAGGGAAAGCAG GGAGAAGAAGGGGAGCAAGAAAGAACAGGAGAAAGGAAACAA CAA $A$ A $A$ A $\operatorname{A} G A A G G G G A G G G G A G G G G G G C C G G G G G G A A A A G G C$ $A C C A A C G C C G G G G A A A A A A G G G G A C G G G A G G G G G G C A G G G A G$ G GAG A G G G A A A A A A A A G A GAGGGCAGGACCAGGGAAAGAAAAC C GACC $\mathrm{C} A \mathrm{~A} A \mathrm{G}$ CAAAGAAAAAGGGGGGGGGGAGAGGAAAGAAAC $C \subset C A A A A A G G C G G C C G G G G C C G G G A C A G A A A A A A A G G A A A A G$ G GAGGACGAGAGGAAAGGAAAGAGGGAAGCCAAGAAGAAAAA ATAGGAAGGAAAATTCATAAAGGGGCAGAAGGGGGAAAACAG GAAAAGGGGGGAACAAGGAGGGAGAGGAGCCATAACCAAAAC
 A A G G GAGACGGAACCAAAGAGGAGAGGGGGGAAAGAGGAAAAA A GAGGGCGGGAGAAAAAAAAAGGAAAACAAGCCAAAAAAAAA $A A C G C C C G G A G A A G G A A A G A A C C G G A G G A C C A A A A G A G A A G G$

A G GAAA A A A A A G GAAGGCCGGCAGGGGAAAGAGAGGGGAAAG GAAAGGAGGGAGGAGGGAAAGAGGGAGAAGGGAGAAGAACAA A G G T T G G GAAA A A A GAACAAAAAAAGGGGGAGA GA G GAAGA G G GAAGGAAAAGGGCAAGAAAAACGACAGAGGAAAAGGGGAGA G GAGGGGGGAAAGAAGGGATTAGCAGACGGGAAGAAACAGAG AAAGGAGCCGGGAAAGGAACCAAGGGGAAGGCCGGCAAAGAA
 $A G G G G G A A G G G G G G A G G G A G A A C A G G G G G G G G G A G A G G A A G G$ A A G G G A A A A G A A A A C A G A C GAAAGGCCGGAAAAGGGGGACAA $A G G A G G G A G G A G G G G G G G G G G A A G G G G G A G G C C G G A A G G G G A$ AAAGGGGGGAAAGAAGGAAGAGGGGAAAGGACAAAGACAAAG G G G A A A G T TAAAAAACGGGAGGAAGGGGGGACGGAGGAGAAAA A G G G GCACAAGGGAAAAAAAAAAGAAAGGAACAAACCGGGGA $A C C G G C C G G G G A A A G A G G G G G A C G G A A G G G A G G C C C C A A G A C$
 CAGGGGCAGGGCCACGGGGGGTAAACGAGGGAAGGAGGGACA
 GAAAGCCGAGGGAGGACGGAAAGGGACGGAAAACCAAGAAAA $A C C G G C C A A C C A A A C A G A A T T A A G G A C A A G A A A G A G B A G G G G$ G G G A G G G A G T T A A C C G G G G G G G G G G G G A A G G G G G G A A A A G $G A$ A GAAGAGGAAAAAGGGGGGGGAAAAGGAAAAGGGGAAAAAAC
 A A A G G G G G G G G C C A A $\mathcal{A} G G G G G G G A A G G C C G G C C G G A A G G G G A$
 GAAAAGGGGAAAAGGCCAACCAAGGGGAACCGGAAAAAACCA $A C C C C A A A A A A A A G G G G A A G G A A A A A A G G G G A A A A A A A A A A A$ A G G G G A A G G G G G GC CAAAA A GAAAAGGGGGGGGAAAAAACAA A A A G G G G A A A A C C G GAA $A \operatorname{AGGGAAGGGGAAGGAAAAAAAAGGT}$ TAAAAAAGGAAGGGGGGAAGGGGCCCCGGAAAAAAAAAAGGG GGGCCGGAAGGAAAAAAGGAACCGGGGAAGGAAAACCGAAAG G G G A A A A G G A A A A C C G G G G C C A A G G G G G G A G G A A G C A G G G A C CACCAGGAAGGGGCCAGGGAGGGGGAAAGAGCAAGAAGGGGA A GAGAAGGAAAAACCGACCGGAAAGGGAAAAGGAAAAAAAAA C C C A GAA $A$ A $A$ A A A $G G G G G G A A G A G A G G A A G G G A A A A A G G G A A$ A CAAA A A A G GACCCCGGAGAGAAGGAGAGGGAGAGAGCCGAC GAGGGAGGAAGGGAGGGGGAGGGGGGGAGAGAGCCAGCAAAA A G GAAAAGGGAAAGGAAGGAGAGAGCCAAGGAAGGACAGAGG GAAGGAAGGGGAAGGGGCCGGAAGACCAAGGCCGGAAGAGAA G G G A A A A A A A A A A G GAACCAAAAAAAAAACCGAGGCCGAACB A A A G G G G A A A A A A A A A GAC $\mathcal{A} G G G A A A A A A G G G G G G G G A A C A A$ A A A A A GAAGGAAAGGAGAATAGAGAGGGGAAAAGGAAAAGAC AA $A G G A A G G A A G A A A C A G A C C A A A A G A G G A A G G A A G A B A A A C$ $C \subset C G A G G G G A G G G G A C C G G A A A G A A G G G G G A A C A C G G G G A G G$ A A A G A A G G G G G G G G A A A A A G GC G A A G GAAC GACAA G G G G G G A $G C A A A G G A G G A A G G A G A G A T T G G A G A G A A A A G A A A G G G A A A G$ G G G G G A A C C A A A A C C A A A A A A A A A GCCCCGGCCCAG GAA G G A
 AAAGGAAAAGGAAAGAAAAAAGGAAAAGGGGGGGGAAAACAG G G GAGAAGACAGGAGTAAAGAAAAAAAAACCAAACAGCCGAA GA $A \operatorname{GG} \operatorname{T} A \subset C G G G A A A A A A A A G G G G A G G G G G G A A G G G B A A C C T$ TAA A G A A G GAA $A \operatorname{AGGGGGAAGGAAAAGGGGAAGGCCGAAAGGG}$ G G G G GCCGGAAAAAAGGGGCCGGAAGGGGGGGGAAAAAAGGA A A A G G A A G G G GCC G G A A G G G G A A G GAA A G G GAA A G G G A A A A A A G GAAAAAAAAGGGGGGAAGGGGGGAAAAGAAGGGAGCAAAA C G G A A A A C C GAGGGGAAAGGGGGGGAAAAAAAAAAAGAGAAA G G G GAA A G G G GCC G A A GCC G GAAAGGGCAGGGGGAAAAAGAA $A C C G G C A A A A A A G G A G A A A G G A A G G G G G G A G A A A A A G G A A G G$ GAGCAAAGGGGAAAGCCGGAGACAAGGCCAGCACACGCCCCG G G G G G A A G G A A G G G GAAA $A$ A A A G GAAA $A A A A A G A G G G G G G G G G G$

GAAGGAAGGGGGAGGAGAGCCGGCCAAAAGGAGAACACAAGB G G G G G A A A A A A A C A G G A A G G G G A G G A A A G G G G G G G G G G G A A $G$ G G GAGGAGAGGAAAACCGGGGAACAGAGAGGGGGCGGGAAAA AGGAAGGCCAAAAGAAAAAAAAGGGAGACAAAACAAAGACCC AA $A \operatorname{GA} A A A A G G G G G G A G A G G G G A G A A C C C G G A G A A G G A G A A G$ A GAGGGGAACCAGAAGACGCAAGAAGGAAAGAGAACACAGAA GAA $A$ A A A A A A A G G A A A A A G A G G A G G G G G A G A G A G A G G G G G G A $A C C A A A A A A A A G G G A C C G A A G G G A A G A G A A A G G C C C C A T G A G$ GAACCGAGGAAGGCCGGAAGGGAGAAGAGGATTXAGGAGGGG A GACAAAGGAAAGAAGGAAAAGAAAAAAAAGGAGAAGGATTC CACAGGGCACACCCCGGCCGGGGGGAACCGGAAAAAAGGGGA A G G G A G G A G G A C C A C G G A A A A G G A A G G G G A A G G A G A G G A G G G G G G A G A G G G G G G A A G G G G G A A A A G GAAA A CAA A G G A C G G A G A G G GA G C C G A A G G A A G A A A A G A G G G G G G A G G G C C T T C C G G A A G GAAGGCAGACCCCAAGGGGGGGGGGCCAACCAAGGAAGGGGG G G GAA A GCAGGGGAAAAAAGAGAAAGGGGAAAA G GAAGGAAA GTTGAAAAAGAAAGGAAAAGGCAGAAAAGAAAGAAGGGAACA G G G G A A A G GCCAA G GAGAAAGGACCGGACGGAAGGCCAACAG GC G G A A G A GC C G A G G G G G G G G G G G A C C G G G G G G G A G G A G C A A A A G G G G A G A C A A A C C G G G G A A G G G G G G G A A A G G A A A G G G G G A $A G G A C G G G G A A G G G A G G G A A G G G G G G G A G G G G G G G G G G G G G G$ G G G G A T T A A G G A A C C G G A A A GAC G G G GAC G G G A G G G A A G G G G GAAAAGGACGGAAAAGGACGGCAGGAAGAGAACAAGGCAACB A G A A A G G A G G G CA $A \operatorname{GA} A G G A G G C C G G C A A G G A A G G G A G A A A A A$ GAAG G TACAAAAACCGGAGGGGGGGCCAAGGGGGGGAGGGGG GAAAAAAAGGGGACGAGAAGGGGGGAGAGGGGGGAGGGAGAA A G G G G A A A GAGGAA $A \operatorname{A} A G G G A A A A G G C C A A A A A A G G G A G G A A A$ A G G C A G G A A GATTCCAAGAGGAAAAAAAGGGGGGGGAGAAA G G G GAAAAGGGGCCAAAAAAGGGGAAAGGAGCCAA GAAAGGAA GAAGGGAGGAGAGGGCAAAGAAAAGGGAAGGGAGAAGAAGGC A G A A A A GCCG G A A A A A A T T A CAGCC GACAAAGGA GAAAAGAA AA GAACCGATAAAGGGGAAGGGAAAGGACGAGGGGAACAGGG A G GAAAAGGAAGGGGGGGAGAGAAAGGGGAAGGGGAAAAAAA A $G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAGGACAAAGAGGATAAAAGAAGAAAABC C A G A A A A G G A A A A G G G G G G A GAGAGAGCAAGAGCGAAA G G G G G G G A A A A A G G A A A G G G GCC G GCC GAGGGAGGCC GACCA G G G G G G GAAA $A \operatorname{G} G A A A G G G A A C A A A C A A G A G G A G G G G G G A G G A G G G$ G G G G G G GACAGAGGAGAAGAGAGGGCAACAGAGGGGAAAGAA A GAAAGGCAGACCGGAAAAACAGAGGCAGGGAAGAGGGAAAG G G G G G G G A A GAGGCCACCCGAGAGAAAAAACGAAGGGAACAA AAACGAAGGAAAAGGAAAAGGCCGAAAAGGGCAAAAAGGGGA A G G G G A A A CA $A$ A A A $A G G \operatorname{GAGGGGGCCGACAGAAGGAAGCAAAA}$ AAACAGGGGGGGGAACCGGGGAAGGGGGGGGAAGGAA
A A G G A A G G G G G G G G C C G G G G A A G G G G G G G G G G A G A G G A A A $G$ GAGAGGGAGAAGGGAGAGGTTAAAAAGGGGGAGAAAAAAABG G G G G G G G G G A A GAC C A C G A G GAGGGGGAACCGGGGGGGAAA G GAGAACCAGCGGAGGAAGAGAGGGAGGGGGACCABCACCGGG G GAGGGAGGAAGGAACCAGACAGGAGGCAAAAAAAAAGGCCA G GAGGGAAAAGGAGGGGAACCAAAAGGACGAAAAGGGAGGAA GAACCAAAAAAAAGGGGGGGGAAGATAAGGAGGGGGGGATAG
 GAGGAGAACAGAAGAGGGGGGGGAAAGGCAGGGAGAGAGAAA A GAGGCAAAGAGAGGAAAAACCCGGGGGGAAGAGAACAAAAA AACAAGGGGAAAAAGAGCAGGCAAGAAAAAAGGAGAGGAGGC C G A A G A A A A A A T T G A A G G G A A G G T T A A G G G GAC G G G G G G G C A G G A G A A G A G G A A G G G G G A G G A G A G A G G G A A A G G G G G A C C G G A G G G A G G A A GAGGGGAAAGGGAAGAAGGGAAGAAGGAAAACAA A A A G G A A A CAA A GAAAAA GAGCCAAAA GAAAAA AGGGCCGGG GAGGAAAGAAGGAGAAGGGAGAAAGGGAGAGAGCAGGTXACG

G G G G G A GAAAAGGCACAAACAAGGGGGAAAAGGGGAAAAAAG GAAGGCCAAAGGAAGGAGGGAAGAGAAAAGGGGTTAAAAGAG $G G G A G G G G A A A G A A C G G A A A G A A G A G A G G G G A G A A A A A A A A G$ GAAAAGGAAAAGGAAAAGGGGGGGGCCCCAAGGAACAAAGAA A G GAACCGGGGAAAAGGAAGGGGGGGGGGAAAAGGCCABAAA AAAGGAAGGGGAAGGAAAACCCCGGAAGGAAAAAAGGGAAAA A A A A A A A G GAACC G G G G A A G G A A A A G GAC GAGGAAAA GAC CA C GAGAGAAGAGAGGGCAGGGGAAAGGAAAGGAAAAAAGAAGA A A G A G A A A C G G G G A G G G G G G G A A A A G G G A A A A A G GA G C C G A G AGGAAGGGGAAGGCAAAGGAGGAAAAGGGCCGGGAAGAGAAG AAAAGGAAGCAAAGGGAGGACAAAGGGACAGAAAACCAGGAA A A G A G A G G G G G G A A A G G G G G G G G G G C C A A A G G G A A A A G G G G A A G G A G G A G G G G G G A G G A A A A GAA A G G GAGCAAGAGAAAAG GA A A GCC GAAAAACCGGAAGAGGAAGGAAAGAAAAGGAAAAAAA A A A A A G GAAGACCAACCGGAGGGCCGAGAGAGAGAGAGAAAA A G GCCGGGGAACCAAGAAAGAAAGGGGAGGGGAA GAAGAGAA GAAAAAAAAAACCGACCAGGAGGCCCAAAGGGGGAAGGAGAG GCAAAGAAAAACCAGAGAAAAAAAAGAGGGGGAGAACABAAG $A C C A A A A A A A G A G G A G G G G C C G G A G G A G A G G A A C C G G G G G G A$ A G G A A G G G GAA $A \operatorname{GGGAAACAGAGGACGGAAAGGGAGGGGAGAA}$ $C G G G G G A G A G G G G A G A A A A A G A G A G G G G G G G G G A G G G A A G A C$

 GAAAACCGAAAAAAGGAGGGAAACCGAACGAGGAGGAGAGGC A A G A G A A G G G G G G G G G A A G A A G A G G A GAAA A CA A A CAA $\mathcal{A} G A G$ A G G G GAACCGGAAGAAGAAGAGGGGACAAAAAAAGAGAGCAA GAAAAGAAAGGGGAAAAAGCCGGAAAAAAGGGGCCAAAAAAAA A GAAGAGCAAACCGAACAAAGGGACAACCAGAGCAGGAGAGG G G G G G G G C C A C A A G G CA A A A G C A A G GAAGGGGGGGAAGAA GA GAGAAAAGGAAAAACAAGGGAAGAGGGCCAAGGGGGGCABAA
 G GAGGGGAACCAAGGAAAAGGGGAAAGGAGGGAAAAAAAAAC A GAGAAAAAGAAATTGGGGCCACACGAAAAAAAAAAAAAGAA A A A G G A G G G G G G G C G A GCCAAAAAAAGGAGACACCGAA GAA G G G GCAA $A \operatorname{A} A X A G G G G A G G G G A G A G G G G G A G A A A A T C A A G G A C$ A GAA A A A A GAGAGGAGAGGGGAGAGAGACGAAGCCGAAAAAA AAAAGGGACGGGGAAAGGGAAGGAAGGGGAAAATTAACCCCA A GACCAAAAAAGGGAGAAATTCCCCGAGGAAGGAAACTXAGG GAGGAAGAAAAGGAAGGAACCGGAGGAAGGGAAAAAAAAAAA A $G G G A A A G G G G A A G G G G A A A G A C G G G G G A A C G A A G A G A A A C A$ CAACAGAAGGAAGAAAGAAGGGGGAAAGGAAAAAAGAAACCC A CAA $A \subset A G G A A A G G A G A A C A A G G G A A G G C G G A A G G G G G G G G G$ GAAAAGGAAGGGACCAAAACCAAAGAACCGGAAAAACAAAC G AAGCCGGAAAAAAGGGAAACCGGGGAGAACCAAAAAAAAAAG G GAGGAGAAGAGGGGACGGGACAAAGAGGAGAACCGGAAGAC
 AGGCGACAAAAAAAAAGAGAGGGGGGAAAGGGAAACCAAAAA A G G G G A A G GAGAGCAGGAAAAGAAAAAGAAAGGAACAGAAGC CAAGGCCGGGGGACCCAGGGAGAAAAGGGAGAAAGAACAGGG GAAAAAAGGGGCCAAAAAGGAAAGGAGGAGAAGGGAGGAGAA GAGGAAAGAGGGAAAAAAAAGCAAAGGCCAAAAGGGGGGCCG $A C A A A A A A A A G G A C C C C A A A A A A A A G G G G A G A A A G B A C C G G G$ GAAAACCGGGGAGAAGGGGAGCAGGGGAAGGAAAGAAAAGAA GAGAGAAAAAGAGAGATGAGAACGGAAGGAGGGAAGAGAAAG G GAGGAGAAGGACAAAAGGGGGGGGGGCCGAAAGGAGAATXA
 A G GAA A G G GCCAAAACCGGAAAAGGGGAAGGGGAAGGGAAAA AAAGGGGAAAAAATTAAAAGGGGAAGGGGAAGGAAGGGAAAG GAAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGGA

AAAAAGGAAGGAAAAGGAAAAAAAAAAGGAAAAGGGGGAAAA
 AGGCCAAAAAAGGGGAAAATTGGGGGGGGGGAAGGAAAAAAG GAAAAGGGGAAGGGGAACCGGAAAAAAGGCCGGGGGGAAAAC $C C C T T G G A A G G G G A A A A T T A A G G G G A A G G G G A A A G C C G G G G G$ G G GCCGGAAAAGGAAAACCGGAAGGGGAACCGGGGGGCCGGG GAAAAAACCAAGGGGAAGGCCAACCGGCCGGAAAAAAAAAAG G G G A A A A A A G G G GAAAAGGAAAAAAAAGGGGCAAAGAAAAAG G G G G G A G A A G G GAC CA $\mathcal{A} A A A A G G A G G G C C G G A A A G G A A G A A G$ GAAGGAAAAGGAAAGGAGGGGAAGAGGACCCAGAAAGAAAAC CAACACCGGAAAGGGGGAAGAGGAGCCAAGGAAAAAAGAAAG AAACCAAAAAAGAGAAACCCCAGAGACGGAAAAAAAAGGGGA $A \subset C \subset A G G G G G G G G G G G G A A G A G G A A A A A A A A A A G G A A A C A G A$ $G G G G A G G A G C G G A G A G G G A A A A G A A A G A G A G G A A C A A G G G G A$ G G G G G G GAGAAAGAAAAAAGGGGAAAAAAAACCAAAGACAAA G G G G GAAGGGAAACCAAGAAAAAGGAACAAGAAAGAGGACC G G G GACAAAGGAAACAAGCCGGAACCGGAAGGAGAAGGCAAAAA A A A A A A C A GAA A G G G G G G G G G A G A A A A A A G GAA G GA GAAC CA AAAGGGGAAGAAGAGAGAAAACAGGGGAAAAGGGGAGAAGAAA GAGGAAAACCCAAACGGAAAGAAGGACAAAAAAAAGGAAAAA AAAACGGGGAAAAAAGGAAGGCCCCAGACAAGAAGGAGGGGG GAAGAGGGGGAAACCACGGCCAGGGAAGGAAGGGGGGCAAGB G G GAACCCCAAGGAGAAGAAAAAAAGGAACCCCGGAGAGAAA A A GAAAC $A \operatorname{A} A A A G A A G G G G G C C G G A A G G A A C X A G G G G G G G G A G$
 A G G GAA A ACCCAGCCGGCCGGAGAGGGAAAGAGAACAAAGGA GCCGGAGAAAGAACCGGGAAGAACCCCAAGGGGGGCCCAAAA AAAAAGGAAAAGGCCAGGAAGGGGGGGGAAGGGAAAACCGBA
 AAGAAGGAGAGGGGAGAGGAGAGGAAGGAAGAAGGAAAAAAG
 GAGGGGGGGAGGGGAAGGGAGAGGGAAGGAAGAAAGAGGGGA AA $A$ A $G A G A G G G G A A A G A A A A C G G A A G G A A G G C C G G G G A A C A G$ G G G C C G G A G G A A G G G C G A G G G G G A A A G A A C C G G G A A G G G G G A $G C C G G A A A A A A A A G G G G A G A A G G A C G G C A G A G A A A G G G A A A A$ AGGGGAAGAGGCCACACAGCCCAACAAAGAAAAGGAAAGATA G G GAGGGGGAAGGAAAAAAGACAGGGAAGTTAAAGAAGGGGG G G G G G G GAA $A \operatorname{GAAA} A C C A A A A G G G A C A G G G G G G G A A A C A G A A$ GAGGGGAGGACAGAGAAGGAAGGACGGAGCCAAAAGGAAAGC A A A A A A ACCCCCCCCAAAACACCGGGGAGAAAAAAGAGGGEA AAAAGGGCCAGGGAACCGGAGGGAAGGGGGGAGGGGGCCGAG ACCGAAAGGAACCCCAGAAAAAAAAGAGCAAACAAGGAAAAA GAAGGGGGAGGGAGGCCGGAACAGGGGGGGGAAAAGG
G GCC G G A C G G A A G G A GCGGAAGGGCCAAAAGGGGAGCACAG GAACAGGCCGGAAGACAAAGGAGGAAAGAGGAGAAAACAGGG G G GCCGGAAAAAAAAAGAGGAAGGGGAGGGGAAGGACAAGAG
 A G G G G G G G G G G G GAAAA A G G GAA A A C C GAAAAAAA AA GAA A A C $C \subset C G G G A C C G G G G A T G G G A A G A A A A A A A A G A G G G G A C A G C A A$
 $A A G G A G A G G G G G G G G G G G G G G G G G G G G G G G G A A G G G G A G G A A$
 A G G A A A A G A G A G G A A A A A G G G G GCCGGAGCCAGCAGGGAAAA AAAGGGGGAAAGAAAGAAAGAAGAGAAAAACCCAGAGAGAGG
 G G GCCAAGGGGGGAAGGCCAAAAGGGGCCAAGGAAAAAAGGA AAAGGGGGGAAGGGGAAAAGGGGAAGGAACCGGGGAAAAAAA AAACCAAAAAAAAGGAAAAAAGGAAAAAAGGAAAAGGGAAAG $G A A C C G G G G G G A A G G A A A A A A G G A A C C G G G G G G A A C C G G G G G$

G G G G G A A G G G G G GAAAACCGGAAGGAAGGAAAAAACCCCGBA $A G G A A G G C C G G G G G G G G G G A A G G G G G G A A A A G G G G A A G A A A A$ A A A G G G G G GAA A G G G A A G G G G A A G G A A A A G G A A A A G G A A G G G GCCGGAAAAGGGGGGAAAAAACCGGAAAAAAGGCCGAAAGGG GCCGGAAGGAAAAAAGGAAAAGGAAGGGGAAGGGGGGGAAAA AAAGGAACCGGCCGGGGAAAAGGGGAAAAGGGGCCAAGAAAG G G G A A A A A A A A G GA A G GAAAAGGAAAAAAGGAAAA GAAA G GA AAAGGAAAAAAGGAAGGGGGGAATTGGAAGGAAAAGGCCCCG G G G A A G G T TAACCGGAAGGAAAAAAAACCAAAAGGGGGAAA G GAAGGGGAAGGCCGGAAGGGGGGGGAACCAAAAGGCAAACCG GAA A G G G A A A A G G G G G G A A A A C C A A G G G G G GAAAAAACC G A A TAA A G A A G GAA $A \operatorname{A} G \mathrm{G} G \mathrm{G}$ GAAAACCGGGGCCGGGGGGCCABAAA A A A G G A A A A A A G G A A A A $G G G G G G G G G G A C A A C G A A A A C A G A A$ GAGAAGGGGGGGGGGGGAACCAAAAGGCCAAAAGGAAGAAAG G G G G G G GCC G GAAGGGGGGGGCCAAGGGGCCGGAAAGAAAAA A GAAACCAAGGGGGGGGAATTAAGGGGGGAAAGACAACAAGA AAAGACCAACCAAGGAAAAGGAACCAAGAGGGGGAAGGAAAAA G GAGGGGAGAGAAAAGGAAAAGAGAAGAAAACGAACCAAAAG GAAAAAAGGAAGGAAGGAGGAACAGGGGGAAGGGGCCGAAAC A G G A A A G G GAACCAAAGAGGAAGGAAGGGAAGAGACCTXAAG AAGACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAGGAG GAACCGGGGGGAAAGAAGGGCGAGAAAGGGAGAGACAAGGGG A G GCCCAAGAACAGAGGAGGGAAGGAAGGCCGGAGGGCAGGG GAGAGGGCAAAGAGGAAAGGAGAAGGGGAGGGGGGGGAAAAG GAGAAGAAGGGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAG GAAGGAAAACCCAGAGGGGGGGGGGAAAAAAGGGAGGGAAGA AA $A$ A $\operatorname{A} A A C C G G A G G G A G G G G G A G A G G G G A A G A A G G G A A C A A A$ G G G G GCCGGAGAAGGAGAGACAGGAGAAAGGAGGGAAAGACA C G GAA $A \operatorname{GAA} A G A C A A G G A A C C A A C C G G G G A A A A G G A A A A C A A$ $A C C A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G$ A A G G G A A G A A A A G A C A GAGCC G G G A A A G G G GACAA G G A C G G A A G G G G G GAAAGAGGAACGAAAGGGGGGAAAGACGAAGAGGAG G G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAGAAAGGGG G G G G G G G G G G A G A A G G A G G A A G G A A A A A A GAGGGGAA GA GA A G GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAABA TCACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAG GAGGGAAGGGGGAGAAGCCAGAGAGAAAAGGGAGGAAGAGAA A GAA $A$ AA A $A$ A $\operatorname{A} A \mathrm{~A} A A G A A A G G G G G A G G C C G G C C A G G G G G G G G$ G A A G G G G G G A G G A T T A C A A G G G G G G G G G G G A G G A G A G G G A A C CAA $A \operatorname{GGG} \operatorname{GA} A A A G G A A A A A A A G G G G A A G G G C A A C A G G G A A C A A$ C G GAAAGCAAACCAAAAAAGGGGGGAAAACGAGCCAGGAAAAG $G C C A A A C A A G G A A A A A G A A G G C C A G G G A G A G C C A A A G G A A G G$ AAAGAGAAGCCGGGGGGGAAGACGAACAGGGCCAAGGGGGGA
 GAAAAGGGGGAACGGGGGGAAGGGGAAGGCCAAAAGGABAAG GAAGGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAAGAA AAAGGAAAAGGGGAAAAAAAAAACCAAGGGGAAAAGGGGGGA A A A G G A A G GAA $A \operatorname{GA} A A A T T G G G G A A G G A G A G G A A G A A A G A G G$ GAAACAAGAGGGGACGGAGGGGAAAGGGGCCGGGGCCGGGAC C C C A A A A G G G G A A G G G G G G G G A G A A GAGGGAGAGGAAAA G G A G G G A A A G G A A G GAAATTCCAGAAAAGGCCGGACAAAAAAAAG G G G G G A A G G G G G G G G G G GCGGAGAAAAAGCAAAGGAACAAAA A G G G G GACAAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAG GAACCGAACGGGGAAAAAAAAGGGGGGCCAAAAGGGGGGGGG G G G G GCCAAGGGGAAGGAAGGCCAAAAGGAAGGAAAAAAAAA A A A A A A A CCGGGGGGCCGGAAAAAAGGGGAATTAAAAAAGAA A A A $\mathcal{A} G A A G G G G A A G G G G G G G G G G G G G G A A A A G G A A A A A A G G G$ GAAGGAAGAGGAAAAGGGGGGAATTAAGGGGAAAAAAGGGGA AAAGGGGAAAAAAAAGGGGAAGGGGGGAAGGCCAAAAGGGGA

AGGGGACGGCCAAGAAAAAAGCCACGAAGAGAAAAGAAAAGA G GACAAAAGCCGGGGAAGGGAAGAAGGGAGAGAGGAAAAACB G G G G G G G G A GAA A A A G GAAAAAA A A GAGGGGGAGGGCCGAAAA CAC A A G G G G GAAAAGCCGGGGGGAAGGGAGAGACAGAAAAAA C GAA A TAAA A G G GAGGGCCGGAAAGGGAAAGCAGGGAGAGAA AAAGAGGCCGGAAAAGAACGAGGCACCCCACAGCCAGAGAAA GAAA A $A \operatorname{G} G \mathrm{G} G \mathrm{G} A A A A C G G G G A A A A G A A G A A A A A A G G A A G G G G A$ A G G G G G G A A G G A A GAA $A \operatorname{AGGAAAAAAGGAACACAAAAAGGCCA}$ ACCAAAGAAAAAAGAGGGGAGAAGAAAAAAAGGCCCCGAAAA AGAGGGGCCAAAGCAAGGGACAAAAAGAACAGGAAGGCAGAG G G GAA A A G GACAA $A$ A A A GAGGCATAGAAGAAAAAAAAGGGGGGG $A G G G G G G G G G G G G T T G A G G G G G G G G A A C C G A G G A G G A G A A A G$ GAAA A $A \operatorname{A} A G G G G G G A A G A A A G G C G T T A A G A G A A G A A A G G A G A G$ GAATTACAACCAAGGAGGGGGAGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAA G GA GAACAAAAAAAAAAAAAGGAGAAACAGAGGAGAAGBGAA $A C C G A C C A G C C A A G G G G A A A A A A G A G A G G G A G G G G G A A G C A A$ C G A A A C A A GA GAAAAAGGGCCGGCCGGGGGGAAAAAAGAAAA G G G G GAAAGAAGGCCAAGGAAAAAAAAGAGGAAGGGACAAGA GCAACGAGAGGGAGGGGAAAAAAGGAAAAAGAGGGGAAAGAA AAAGGGGGGAAAAAAGGAAAAAAAAGGGGAAGGAACCCCGGG G G GAAAAGGAAAAAGAAAGCAGAAGAGAAAGCAGGAGGAGAA A A A GAGAGAAGAGGACAGAAAAAGGGGAGGGGGAAGGGAAAG GAGGGACAGAGAACCGGAAAAGGCCACAACCAAAAGGAGGGA GAAC $A$ AAACGGAGGGGGGGAAACCGAAAAAAACCGGAAGGGGC
 A G G G GAAACAGGAGGAGAAGGAGAAAGAGCAAAGGCCABAAG GAGAGGAGAGGCCCCGGGGGGAAGGGGGGGGAAGGCCBAAAA A G G G G G G A A G G G G G G G G G GCCAAAAACCAAGGAAGGGGGAAAC CAACCGGGGAACCGGTTGGAAAAGGGGCCGGGGGGGGCCCCA A A A G G A A G GA A G G A A G G A A A A G G G G G G G G G G A A G G G G C C G G A AAAAAGGAACCGGAAGGAAGGGGGGCCAAAAGGAAGGGGCCA $A \subset C \subset C G G A A G G G G A A A A A A C C A A G G A A G G A A G G G G A A A A A A A$ A A A A A A A A A G G A A GACAGAGGGGAGCCGGCCGGGGGGCAACAA $A G A G A A G G G G G C A A A A A A A C C A A G G G G A G G G A A A A A A G G A G G$ GCCAGAAAAGGAAGGGGAAAGAGGGAAAAAAAAGGGAGAAAA CAAGGGAAAAAAAGGAAAGAAAAAAAAAAAAAACC GAA GAGA GCCAAAAAGGGGGGGAAAAAAGGCCGGGAGGGGAGAGAAAAC ACCAAAAGGCCGGCCAAAGCAAAACAACCGGCAAAGGGAAGA GAAA $A \operatorname{GAT} T A G A A C C C C C C A A G G G A G G A A C C G G G G G G C C G G G$ $G C C A A A A G G G G G A A A A A A G A G G G A A C C G G A A C C G A C A G A G A G$ G G GAAA A A G G G G G A A A A A A A A G G C C GAAGAAACAACACAA GA CAATACAGGAAGGGGAAGGAAGGAAAAGGGGAAGAAA
A A GAGAGGAAGAAAGGGAGGGGAAGGCGAAAGGGGGAAGGG GAGGAGAGGCCACGAAAAAGAAGAGGGAGGAGGGGATAAAAA
 GAACCGGCCGAAGGGGGAAGGAAAGGGAAGGACAGACGAGGG GAACCGGAGAAAGGAGAGAAGGACCAGTAGGGAGGAAGAAAA A A A G G GAA $A$ A A $A \operatorname{G} G \mathrm{G} A A G G A A G G G G A G A A A A G A A A G G G A G G A$ A A A G G G G G GAAACGAAAAGAAAAGGAAAGAAAGGGCCGGGAG GAAGGAAAAAACCAAGGAAAAAAGGCAAAAAAAAACCCCGBA A GAGAAGGGGGGAGACCGAAGAAAAAAAAAAAAAAGGCCGGC CAAGGGGGGAAAAGGAAAAAAAAAACCAAGGGGGGAAAAAAA AGGACCGAAAAGGGAGGGGGGGGGGAAGGAACCGAGGAAAAG GAGGAAAAAGGAAGGCAAAACAGACGGCCAACCAAGGGAGAG A A GCCAAAGGAGAAGGAAAGGGGGAGGCCAAAAGAGGGAGAA GAGACAAGGAAAAAAGGACGACCGGAGAGGACAGAAAAGAGG GA $A \operatorname{GGG} G \operatorname{G} A A A A A A G G G G A G G A G G G G A A A A G G G G A A A A A A G G G$ GAAAACCAATTAACCCGTTACAGGGGGACGAGACAGGAAGGG

GAAAGCCAAAAGGAAAAGGGGGGAAGCAGCAGGTTCCGAAAA A G GCCCAAAAACCGGGGAGGAGGAGCCGAGGGGAGCCABAAG GAGAGGAAGAAAGAAAAAGGGACGGGAAGAAAGACGACAAAA GAGACCCAAGGAAGGAGAAGAGGAAAAAATAAGAGAGAA GAA
 GACGGGGCCGGAGAGAAAAGGGGCAAGGGGGAAA$G A A G A G A G$ GAGAAGGAGGGAAAAGGCCGGGGGAACACGGAAGGAAGAGAC C G G G GAA $\operatorname{G}$ GAAGGGGGAAC GAACGGGGAAGGGAACAACAAAG GAAGGCAAGGGCAGGGGCATTAAAAAAGGCACCGAGAGAAGA AAAGGAACCGACAGAAGCCGGAGGGAAGAGAGGGACAGGGAA CAACCAAAAAAAAAACCGGAAAAAGGAGAGGAAGAAAGGGGG GAAGGGGAAGGAAGAAAGGGGGGAAGGGGGAGAAAAGABAAG AACAGGGAAAAAGGGAACCGGAAGAAAGAAAAACCAAAAAAG G G G G G A A A CAAAAGGAGGAAAAAAGCAAAAAAAATAGACAGA GACAAGGGAAAAAGGGAATGAAGCAGAAGGACCAGGAAAAAA A GAAGGACCGAAAAGAAGGCCCCGAGAGAGGAAGGGGGAGAA
 A A G G A A A G GCC C G A GAGGGAAGGGAGAGAGAACGAAAGGGGG GAAAGAGAGGAAGAAGAGGGGGGAAAAGAGAAGGGGAAAGAA A A GACATAGAGAGGAACGAGGAGAAAGGAGAGAGGGGCAGAA AAGAGAAAAAGGGAAAAGGAGAGAAGAGGCCCGCCAAGAACA $C \subset C G G A A A A A G C C A G C C G A G G C A G G C C G G G A T A G G A A A A G G A$ C G G G G G G A G A A G G C A A G G G A G G A C C A A C C G G C C G G G G G G G G C A A G G G G A A A G G A G G A G G G G G G A A C C G G A A G G G G G A A G G G A G G AACAAGGAAGAGGAAAGCCCAGGGAGGGAGGAAGAAAA GA GA A G G G G A G A A A A A G CAAC $A \operatorname{AGGGGGGGCCGGAAGGAGGAAAAAC}$ C G G G G G G GAGGAAAGCAAACAGGAAGGGGAGGGAACCAGAAG GAAGGAAAAGGAAAAGGGACCGGCCAGAGAGAGACAGGGCCG G G G G G GACCAGAGAAAAAGAAGAGGAAAAAGAGGAGACAAGG G G G A A C A A A G GACA $A \operatorname{AGGGGAAAGGGGGCCAAAACCGBAGAAA}$ A A A G A C C C C G G A A G G A GAAACGGCACCCAACAAGGGGA GA GA AA GAACCGAGAAAGGAAGGGGAGCCAAAAAGGGGGCCAGAAG G G GAA $A \operatorname{GA} A G G A A G G A A A C A T G G G G C G C A G A A G A G G G A A G A A$ GCCAGGGGGCCCCACAAGGAAGGGGGGCCAGCAAGGGGAAAG G G G A G A G A A A G G G G G G G A A A A A G G G A GAA A A A G A A A A A G G A G G GAAA A A A A G G GAGGAGACCAGGGAAAAAAAGAAGAAAAGGAA A GAAAGGACGGAGAGGAAGAAGGGGGGAGGAGACCAGAAAAA G G GAA A GCCAC G GAGAAGGAAAAAGCGGAGAGGAAAGGAAGA G G G A A A G A A G G A A G A CAGGCCCCGACCACGGGGGGGGGAAAG G G G G A A A G G G G A C G G G G A A G GCCCCAGAAAAAAACAAAAGAA A A A A G A A G G G G G G A A A A G GAGGAACGGAAAGAGGAAGGAA GA
 G GAGGGGGACCAAGGCCGGGGAAAACCAAAGAAGGAGAAGGA A G G A A A A G G G A A A A GCCCAGAGGAAGGAAAAAAAA G GAAAGGG A G A A G G G A G G G G G G A G G C A G G A A A G C C A G GAG GA A G G G G A A $G$
 A G G G A A A GAGGGAGAACAAAAAGCAAACAAAAGAGGAA G G GAA $C \subset C A A C C A A A G C C G G C C G G T T A G G G G G G G G G G A G A A G A G A G G$
 A A G G G A A A A G A A G A A G G G G G GCCAACCGAGGAAG GAA GAGAA GAAAGAAGGGGAAAAAAAAAAAGAGGGGAGAGGCAACABAGAA A G G G G A G C C A A G G G G G G G G G G A A GAGGGAGACAAAAAT TAAC C G G A G A G G A A G C C G G A A A A A G T T G G A A G G A G G A G A G G G A A A G G GACCGGGGAGGGAGAAAACCAAGGGGGGCACCAGCAAAGAA AA G G A A A A GAGGACCAAAAAGCCAAGAGAGACAAACAGAGAA A G G A A C C A A A A G G G GA G GAAA C CAAAAAAACCAA GA G GAAAA $A$ A GAG $A \operatorname{GA} A G G A A G G G G G A A A G G A A G G G G G G G G G G G G G G G A A A C$ C G G A A G G G G A A G G G G G G A A G G G G A A A A A A A A G G G G A A A A G G A AGAAACAAACAAAAAAAAGAAAGGAAACAGGAAGGGAAGAGA

G G GAA A GAAAAAAAAGGGGCCCCAAAAAAAACCGGGGGGGGG G G GCCGGCCGGGGCCAAGGAAAAGGAAGGAAAAAAGGGAAAA A G G G G G G A A A A G GAAAA $A \operatorname{A} G A A G G G G A A A A A A G G A A A A G G G G G$ G G GAAAAGGGGAAGGCCGGGGGGAAAAAAAAGGGGAAGAAAG GAA $A \operatorname{GAAAAAAGGAAAAGGGGAAAAAAAAAAGGAGAACCCCA}$ A G GAAAAAAGGAAGGCCGGAAGGAAAAAAGGCCAGAGAAAAA A A G G G A A G A C A A A A GAA $A \operatorname{A} G A G A A G A C C G G A A G G A G A G G A G G G$ G G G GAGAAAGGGGAACAAAGGGGGGAAAAAAGAAGGGTACCB G G G G G A A A A A G A GCGGAGAAGAAAGGGAGGGCCGGCCCAAAA $G C A G A G G A A G G A A A G G G G A G G A A G G A A C C A G A C C A G G A G A G G$ GATAGAGGAAAAAGGAAGGGGGGCCAAGGGAAGAAAACAAAG GCCGGAGAGCAGAAAGAAGAACCCAGAAGAAGAGGAGACAGC CAAAAGGAAAAAACAAGAAAAGGAAAAGGAAGGAAAACAGGA A GAGCACAGAAGGTAAAACAACCGAGGGGAGGAAACCAAAAG AA $A G A G G A A A G C C A A G G G G G G G G G G A G A A G G A A A A G A A A A G G$ GAAGGAAGGAAAAAGGGGGCCGAAGGGAAAGAAACGBCAAGA GAAAAGGAGAAGAGGCACCGGGAAGACGAAACCAAAGGGGGG G G G G G G G A A A A C C G GCAAAGGGGGGGAAAAAAAAAAAAGCAA G G G G G A A C CAA A A G A A GCCAAAGCACCCCAAAAGGTTAAATG A G A G A A A G A A A A A G A G G G A A G A G G A GAGGAGCA GAA GAA G G A ACAAAGGGGAAAACCGGGCAAGAGAGGGCAAGGGGGGCACAA GAAAAGGGGGGAAAATTGGAGAGAAAGCAGGCCCCCCAACAA GAGAAGGAAAACGCAAAAGGATTACCCAAGGGGCCGAAAGGG A A GACAGCCGGGGGAGGGACCGGAAGGAACCGGGGAAGAAAA CA GTAAAAAAAAAAAAAAAGGAAGAAAAGCAGGGGCAGAGAG AA GAAAGAAGGAAGGGGGGAAGGAAGGGGAAGGAAGGCAAGA AAAGGAAAAGCGGAAGAGGCCGGGGTTGGACGGGGGGGACAA $A C \subset A A C C A A A A A A C A A G G G A A A A A A A A G G G G A A A A A A G G G A A$ A T TAA A G G GAA $A \operatorname{A} \operatorname{A} A A A A G G G G G G A A G G G G G G A A A A A A A A G G A$ A G G A A A A A A A A G G G G G G A A G G G G G G C C G G A A G G G G G G G G A G G G A G G G A A G G G G G G A A A A A A A A A C G G G G G G G A A G G G A G G A A G A G $A G G T T G G A A G G A A A A C G A G C C C A G A G G G G G G G G A A G G G A A G A$
 AA $\operatorname{A} A \mathrm{~A}$ G A G GAGAAGGGGGGAAAAAAGAAAAACCAAGGCCGGG GAAGGGGAAGAGGAAGGAACCAAAGAGGACCAAACAAAAAAG A A GAAATAGTTGAAAGAAAGGAAAAGGGACGCCGAGGAATTA A A A A A $\operatorname{A} A A G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A$ A A A A ACCAAGGGGGAGACCCAAGGGGGGGAAAAAAAAGGGGA CAACCAAGACAAGACCAAGCACCGGGGAAAAAGAACCAGAAG A A A A A G GCCGAAGGGAAAGAGAGGAAGAGAGAGAAAGAAGAA ACAGGAGAGAAACGAAGAGGGAACCGGAAAAAGCAGACCGGA
 A GAGGGGCCGAGGGAAGAGCCACCCAAAAGAAAAAGG
GGCAGAGGGGCCCAAGAGACAGGAGGAACCAACCCCAAGCA GAAGGAAAAAAAGAAAACCGGGGGGAACACAGAABAAGAGAG G G G G A T T G A A A A G G GAGGAAAAGGAGGGGGGAAAAAACAAAA $A G G A G A G A G A G G G A G G G A G G G G G A A G A A A G A G G G G A A A A G G A$ $A C C A A G G A A A A G G A A A A A A T T G G G G C C A A A A G G C C G A C A A C A$ GAACCACAAAAAAAACCAAGAAGGAAGGGGAGGAAAGAACAA A G G A A A A G A G G A A A G G G A A G G G G G A A GAAA A CAA $A$ G T T C G G G G GAAAAAGGAAAAGAGCCAAAGGCAGGGAAAAGAAAGGGAABA A A A G GAA $A \operatorname{ACC} C A A G G G G G G A A A A A G C C A G A A A A G G G A C C C C G$ G G G G G A A G A C C A G G GAGGGTA GAAAAAAACAAAGGGGGGCC G G G GAAAA $A \operatorname{A} G \mathrm{G}$ GAACCCCGGGGAAGGAAAGGAAGGGGGGGGGC $A \subset A A A A A A A C C C C A G G G A G G G G G A A G G G G G G G A A A A A A G A G G$ $G C A A G G G A A G A A A C C A A G A A G A G G A A G A G A A A G A G A A G A A A A$ $A C C A G G G A A C C T T G G A A C A A A G A G G G C A A G G A G G A A G A G A A G$
 GAGGGAGGAACAGGGGGGGAAGAGGAGGGAAGGAAGGGAAAA

G G G G G G A A A C C A A G G G G G G G G G A A GAGAGGAAAAAGAAACCG $A G G C C T T G G G G G G A G G G A A G G A G A A A A A A A A G G A A A G A A C A A$ A A GCCAAAAAAGGGAGAGGAAGGGGGGAAGGAGAA GGGAGAG GAAGGAAAAGGGGAGAAAGCAGGCAGGAGGCGGGGAAAGAGG G G GAA A GCCAGGGGAGCGAAAAAGAGAAAAAGGAAGGGAAAA ATTAAGGAGGACCAAGGGGGGGGAGAAGAAGAGGGAACAAAA
 TAGCAATGGGCAACCGGGGGGGAGAGGAAAGAAGAGAAAAAG
 AGGAAAGCAGGGAGAAGAGGGAAGGGAAAGGAGAGGAGGAAA
 GAAGGGGAAGGAGGGACAAGGAAGGGGAAGGAAAA GACAGGG
 A A G A A C C A A A A A GAGGGCCAAAACACCCAGAGA GA GAAA G GA
 TGAGAGGAAAGAAAAAAAAGGAAAGAGGAAGGGAATTCAGGG G G GAGGAAAAAGAACCAAGAAAGAAAAAACCCCAACCAGGAG A A GAA $A \operatorname{GAAAAAAGAGAGAAGGCCAACCGAGAAAAAAAGGGGG}$ $G G G A G A G C C A A A G C A C C G G G A A G G A G A G A A A A A A G A C G A A G G$ G G A A A C C A A G A C C G G G G G G G G A A A G G G A A G G G G G G T A A A A A AAAGAGGAAAAAAAAAAGGGAACAGGGAGTTGGGAAAGAGGC CAAGGAAAAGAAGAACCAAAAGGAGGAGGAAAGGAGGCAAAA AAGGGGGAAAGCCAAAGGAGGGGAAGAAGGAGAGGGAAAAAA
 G G G G G G GAACCAAAAAAAAGAGGGAATAAAAAAGGAGGAAAA A A GCCAGAGGGAGAGAGGAGGGGGGGGGGAAGGAAAACAAGA GACTAAAAAAAGAAAAGGAAGGGGACAGGCCGGGAAAAAAAC C C C G G GA G A A A G G G GAA $A \operatorname{G} G C X A C A G G G G G G G G G A A G G G A A A A$ A G G G A GAAAAACCAAGGAAAGAGAGGAGGCCACGGGAAGCAA GAAAAAAGAGGGAGGGGCAACGGAAAAGGCCGGAAAAAAGGA A G GAAA A A A A A G G GCACAGGGAACCAAACCAACCCGGAACCT
 GAGACAGGAGGAAAAGGGGGGAAGGCCGGGGGGAAGAAAAAG A GAA A G G A GAA A G GAGAGAACAGCCAAGGAGGGGGAAAAATA ACCGGAAAACCAGGAGGGGAAGGGGAAAGCCAAGGAAGAGAA A C A G G A A G A A T A G G G A A A A A A C C A GAA G G GAA G G G GAC C G G A A G G A A G G G GCC C G G G G G G G G G G G G C C A A A A G GAAAAAA A A A A A G G GAA A GAGACGGCAGGAAGGGGGGAGGAGGGACAGAGAGAA ACCGAGGGAAAGGGGGAAACAAGGAACGAGAGAAAAAAACCG
 $A G G A G G A A C G G A A G G G A G A A G A C G G G G A A A A G G A G A G G A A C B$
 AAAGGAGGAGGAGGGGGAAGAAAGGAAGGGAGAAAGGGGGGA G G G G G A A G G G G G G G C G G A A A A A G A G G G G G C C G G G G G G A G G G C C G GCCAGAAGGGGACAATTAAGAACTAAAGGAAAAGAAGACA
 CACAGAGAAGGAAGGGGAAAAAAGGCCGGAAGAGAAACBGGA A G GAGGCGAGACCAAAGGGGGCCAACCGGGGAGGGGGGGGGA
 GAGCCGGAAGGGGAAAAAAATGGAGAACCAAGGAGAGAAAAA C C GA G G GCCAAAAACGGAAAAAGGGAACAAGAGAGAGGAAAC CTACAAACCCCGGGGGACGGAAAAACCGGAAGAAGAGAAGAC A A A A A A A G GAACCGGAAAGGAGGAAAAGGAAAACCCCAAAAG GGGCCAACCAAGGACGAAAGGGAAAGAAGGAAAACAGACAAG $A C C G G G G G G A G C A A A C C G A C C A G G G A A A G A A G G G A G G G G G G G$ GAACCAACAGGAGAAAAGGGAAAAAGGAAGAAAGAGGGGCCG GCACCAAGGAGAGAGGGAAGGAAGGAGGGGACCGACCGAAAG A G G A A A A A A A A G GAAC C G GTTAAAAAGGGGGGGAAAAGAAAA $A G G A A G G G G G G G G A A C C A A G G A A G G A A A A G G A A A A G G G G G G G$

G GACCAAAGGAGGAAAAAAAAGGGAAGAGGAAAGGGGCAAAC A A GCCAGGACAGGGAAAGGGAGGACCCAGGGGGGGAGAAAAA GAGAAGGAACCAAGAGGGAAGGAAGCCAGGGGGAAGACCGGC $A C A G G G G G C C C A G A G G A A A A A G A G G G G A G G A G G G G G G A A A G A$ GAGAGGAAAGGGGGAAGGAAAAGAGAGAAAAGAGGCAAACAA GAAA A A A G GAA $A \operatorname{A} G A A A G A A A G A A G G A A A G G G A A G G G G C A A A G$ GAACCAAGGAAGGAAGGGGAAAAGGGGGGGGAAAAAAGACCA A A A T T CC G G G G A A A A A A $\mathcal{A} G G G G G G G G G A A T T G G G G G G G A A A G$
 G G GAAA A $A \operatorname{A} A A G G G G G G G G C C G G A A A A G G C C G G A A A A G G G G A$ A A A G G G G A A G G G G A A A A G G G G A A A A G G G G G G G GAAAAAAAA A G G G A A G G A A C C A A A A G GAA $A \operatorname{AGGGGGAAAAGGCCAAGGGAAAA}$ A A A G GAA $A \operatorname{GGGGG} \operatorname{G} A A A A G G A A A A G G A A A A A A A A C C G G A A G A A$ AAAGGAAGGGGGGAACCCCGGGGAAAAGGAAGGCCAAAAAAC C G G G G G GAA $A \operatorname{GGG} C \subset A A A A G G A A G G A A G G A A A A A A A A G G A A G$ $G C C A A A A G G A A G G A A G G G G G G G G A A A A A A G G A A A A A A G G C A A$ AAAGGAAGGGGCCCCGGAAAAAAAAAAAAAAAAAACCAAGEC
 A G G A A A A A A A A G GCCGGAAAAAGGGGAGGGGAAAAGGGACA G GACGGAGAGGGGACCCCGGAAAGGGGGGAAGAAGACCGAACA GACAAATGAAAAAAAACGGAAAAGACAAGAAGGGGCAATAGG G G G G G G A A GAGAGGGAAAGACAAAGCCAGGAAAAATTAAAAA A G GAA A GAAAGAGGAGAGAGAAAGGAAGGAAGGAGAAAAACC CAAGACCGAAAAAAGGAGAGGAAAAAAAAGGAACCGGGAAA G GAAAAGACCAAGACAAAAAAAAGCCACCCGGCGAGGGGAGAA A G GAGAAGGGGAAAAAAAAAACAAGAAAGACAAAGGGGGCCA $A C C G G A A G G G G A G A A G G G G A A G G G G G A G G C C G G A A G G A A G A G$ AAAGGAAAAAGGAACAAAAAGAAGGCCAAGAAAGGGAGAAAA GC G G A A G A C G G G G G A G G G GCC G A C A A GAGGGGGACAGCCG G A AAGGAGAGACAAAAAAAAAGGAAGGGAAAGGAAAACCGGGGG $G G G T T G A G G C G C C A G A G A A A A C C G G G G G A A A G G G G G A A G A G A$ G GGACAGGGCCAAAAAAAAGGAAGGAAGGAAGGGGAAGGAGA A A G G G A G A A G G A G G G G G A C A GAA A GACAACAGGAATTGGCCA C CACAAACCGAAGGAAGGGAAGATAAGAGAGAAGAAAGGGGA GACGAGGAAAAAAAACCCAAAGGAAGCGAGAGGGGAAAAGCB GAAGGCCCAGGGAGGAAAAAACCAAGAAAGAGAGGGGGAGAA C G GAAA A A A A A G GAAAGGGAGGAAAGGGAGGGGAAAACAAAA AA GAGAAAAAAAAGAGGAAGGAGAAGGAGGAAGAAGAAAAAA A G G A A A A G G G A A A $\mathcal{A} G G A G G G G A A G G G G A C A G A G G A G A G A C A A$ A A GA A GAGAGACCGGGGGGGAAGAAAACCGAGAAGAGAGATM $G G G A A C C A A A A A A C C A G G G C G C A G A A G A A G G A A G G A G A A A G A$ A A G A A G G A GAC GA G G G G CACATTAAGAGGAAAAAGAAAAGGA A A A A A GAGGAAAAAGAACCAAAAAAAAGAAGACAACG
$C \subset A A G G G G A A G G A A C C G G G G G G G G G G A A A A A G A A G A A A A A A$ G G GA $\operatorname{G} A A C C G G A A A G A A G G G G A G A A A A A A G G A A A C A G A A G G G$ G G G G G G G G G A A G G G G A A T T G G A A A G G GAAA A G A A A G G A A G G A ACAGAAAGGGGAAGATTACCCGGAGGGGAACAAGGGAAGAAC AAAGGGAAACAAAACAAAGGACAAAAAGGAGAGAAAGAAAA G A G GACAAGGAAGGAAGGGGGGAAGAAGAGGGGGAAGAGAAGG GAGAGGGGACCAAAAAACAGGGAGGGGAAAGGAGGAAGGGGA $A G A G G G G A G G G G G G G A C A A G A G G A C A A A A G G A G A G A G G A C A G$ GAAACGAAGGGAAGGACAAGAGAAACCGGAAAAAAAAGGGGAA CAATTAAAGAAAAAAAAAAAGGGGAAGGGAAACAAGGBAAAC A AACCCAACAAAGAGAAAGAAGGAACCAAGGAAGGAAAGAGA A A G G A CAG G GACCCAGGGGCCGATAGAAAGGGGCCAAAAGAA A A A A A A A A A G G A A G GAAAAAAGGGGGGCCGGAGGGAAGACAA CAAAGAAGGAGAAGAGAAAAAAAGGAAAAGGGAAAAGAAAAG GAAACAGAAGAGAGAAACCAGGAAGAAGGAAAAAAGGGGAAA $A G G A C A A A A A G G G G G C A A G A A A A G G A A G G A A G A G G G A A G G G A$

GAAGAAGAGGACCAGAAGGAAGAAGAGAGCACAGGAGGGGAG $A G G G G G G A G A A G G G G G G T A A A C C G G C C G G A A C G A G A A G G G G A$ AAAGAGGAAGGGGAAAGGAAGGAAAAAAAGGCCAGAGGAAAG G G G G G A A A A G G A A A A G GAAAAGGGAGGGGAAAAAA G A A A A GA G A GAGAAAGAGACCCAAAAAGAAAAAAGAGGGAGAGGGGAAGAA G GCGGGGGGGGAAGGGAAACATAAAGGAGGGAGAACCAGGGA A G GCCAAAAAAGAAAGGAAAAGACAAGAAGGGGTTAAAAAAA $A C A G G A A G A A A A A G A C A G A A A G A G G G G A A G G A A C C G G G A C A A$ A GAAA $A \operatorname{A}$ GAA $A \operatorname{GA} A A A A A G G G G A A A A A G G G G G A G A A G A A C A A A$ GAAGGAGGAGGAAGGGACCACACAAGGAGGAGCCATAGAGAC A GACCAAGGGGGGAAAAGGTTAAGGGGAACCCATAAGAGGGG
 G GAA A A C G G G G G G G G A G A G A A G G A A C C G G G A G A A A A A G G A G A C G A A G G G G G G A GAGAACCCAGAAAAGGAAGAGAGGAAAAGGA A A A A G GACAGGAAGAGGAAGGAACCAGCAGGAGGAAGAGAAA GAA A G G GAAAGAAA $A$ AAAAAGGGGGAAGCCGGAAAA GGGGGGG
 A A G GAGGCCAAAGGGAGGAAAACCCGAGGAGAAGGGGACCCA $G G G A A A A G G A A G A G G A G A A A A A A G G A G A A A G G A C C A G G A A G C$ C A C A A C C C C C C A A G G G A GA G G G A G G C C G A A A A A A GAA G GAA A A GGCCAAGGGGCCGGGGAACCCCGGGGAAAAGGGGGGAAAAA ACCAACCGGGGAAAAAAAGGGGAAGAGAAGGGAAGATAAAAA G G G G G G A G G A A A A A $\mathcal{A} A G A C G G G G G G A C G G A G G G G A A G A A A A G$ G G G A G G G A A G A G G G G G G A A G G C C G G A CAA $A$ G $\mathcal{A} A G G G A A G A A A G$ $G G G A G A A G G A A G G A G G G G G G G A A A A G A A G A A A G G A A G G G G G G$ A GA $A \operatorname{GA} A \operatorname{A} A A A G G G G G G A A G G A G G A G A G C G G G A G A G G G G G G A$ G GAGAGGAGAGGGAAGGGAGGAGCCAAAAAGAGGAAAGAAGG GAACCGGAAAAAAACGGAGAAGGAAGGAGAGCCGACCGAABA GAAAGGGAAAAGGGGGACCGAGGGGAGGGACAACGGAACAAC CAAAAAAAAACAAGAGGAGGGCCACGGCAGGGAGGACGAGGA
 $G C C A A G G G G A A A G A G A G A A G G A A A G G G G G A G G G A A A A A A A A G$ GAAACAGAAAGGGAGAGAAAGCCGGAGCAAAGAAAGAAAGAA A G G A A GACCGGGAGAGGAGACGAAGAGAGAGGGAGGAAAAAA A G G A A G G C A T T G G A C C C G G C C G A A A G G G G G A A A G G G G G G G G A G G A G G A A C C A G G G A G A A G G A A G G A A A A G G G GAA A C G G G G G G A AAAAGCCGGAGAAGGAAGAAAAGGGGGCCCAAAAGGAAAACG G GAGGAAGGCCAAGGGAGAGGGAGGAGAAAGGGGGAAGAAGA A G A G G A A C C G A G G G G G G G G G A G A G G G G A CAC A A A A A A A GA T A GAGAACCAAAGAGAAAGAAGAGGAAGGAAGGCACCGGAAAAA G G G GC G G G G G G A A A A A A G G A A A C GAGGAGGGAAAGATAGTTG

 G G A A A A A G GAA $A \operatorname{GGG} \operatorname{GAAAAAAGGAAAAGAGGGAGGAAAACAC}$ A A C A G A A A G G G A A A A A A A A C C G GAGAAC CAAGGGGA GA GAAA GAGACAAACACGAGAGGAGGGCCCCCCGAGGGGCACAAACAA A G G A G G A C C G G G G G G G G G G G G A C C C G G A A CA A A G G A A G G C C C C G G GAAAAGGAACAGAGAAGAGAGGAGGGAAAACCGGGAAAA A G G G GAA $A \operatorname{A} A \mathrm{~A} G A A C G G C C T A G G A C G A A A A G G G A A G G G A A A A$
 GAAAGGAAAGGAGCCCCAACCAACAAAAAGGGGGGAAAGAGG GAGGGGGGGCCAAGGAAGGGGGGGGGGAGAAGAGAAAAAAAA A A G G G A A A ACC G A A A A A A A A A A A G GAAAACCAA G GAC G GAAC AGGCCAAAAAAGAGGAAAGAAGAGGAAAACAAGAGGAGGACA AAAGGGGACAACCCCCAGAAAAAAAAAACGGGAAAACAAAAA C G G G G C A G GAA $A \operatorname{GGG} \operatorname{G} A A G G A G G A G G G A G G G A G G A A A A C A A A A$ AAAAACCACCCGAGGAAGGGGGGCCAAAACCAAGGAAAAGEG G G G A A A A G G G G T T G G G G G G A A A A A A GAAAAA A A A A A C C G G A A A A G GAAGGGGAAAGAAGGAAAACCGAGGAAAACCAAAAAAGGG
$G C C C C A A G G A A G G A A A A A A A A A A A A A A A A C C A A A A G G G G A G A$ A G G G G G A A A C C A G A G G G G G G G G G A A T T A A G G G G G G G G G G C C A
 $G C A A G G G A A G G G G G G A A A A G G A A G G C C C C G G A A G G G G G A G G G$ G G GAA A GCGAAAAACGGCAGGGGAAGGAAACCAAAGAAAGAG GAAGGAAAACAGGGGGAAGCCAAAAAGGAGATAACGAAAAAG GCATTAGGAAGCCGGGGAAAAGGAAGGAAGGGGAAAAGACAA AAGAAAACCGAGACCAGAGGAAAACGAAAGGAAGGAAAGGGG A A G G G A A A A A G G G G A G A G G G G A G A GAAAAAA A G T T A $A$ A G G G G A AGGCGGGAGGAAAGGAAGGAAGCGAGAAGGAACGAGGAAAGC CACAACCAGAGAAGAAAGGAAGAAAGGATCCGACCCCAAAGC GAGCCCCAGGAGGAACCAGCAAAGGAAGGAAAGGGAGGAGBA G G G A C A G A G A G G G G G G G G G A A G G G A G G A A C C A A A A G G A A A G G A A GAG $\operatorname{A}$ GACAAC GAAAAGCGGGGGGAAACCGAGGCCTTGAAAA $A C C G G A A A G G G A G A G A G G A A A G G A A G G A A A A G G C C G G G A A G A$ A A A A A G G A A G GAAAAGGCCGGAAGGGGGGGGGGAAAAAAGAA $A C C G G C A A G A A A G G A G G G A C A G A C A A A A A G G G G A A G A A A A C G$ GAAAGGGAAGGCCGGAAAGAAGAGGCCAAGAGGCCCAAGGAA GAAGGCAGGGGGGAAAAGGACAGAAGAGGCAGGAAAAGAAAG
 GAACCGGGGGGAAAAGGAAGGAAAAAAAAGGGGGGGGGGGGG G G G G GCCAAAACCGGCCAAAAAAGGAAAAAAGGGGGGAAGAA A G G G GCCAAGGGGCCGGCCCCAACCGGCCGGCCAAAAAAGGA A G G A A G G A A G G A A G G A A A A A A A A A G G G G G G A A A A A A T T G G G G C CAAGGGGGGCCGGGGAAGGAAGGCCGGCCCCCCAAGGGGCCC $C \subset C G G C C A A A A G G C C G G A A G G G G G G A A A A A A G G G G A A G G G G A$

 A G GCCGGAAGGCCAACCAAGGGGTTAAGGAAAAAAGGAAGEG GAAGGGGGGCCAACCAAGGGGAAGGGGGGAAAAGGGAAAAAA A G G A A C C G G A A A A G G A A A A G G A A G G G G G G A A G G A A A A G G A A G GAAAAAAAAGGAAAAAAAAGGAAAAGGAAGGTTGGGGAACAA A GAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACAGGC CAAAAAAAAAAGGGGAAAAGGAACCAGAACCAGAAGBAAGGT TAAA A A A A A A A G G A A C CA $A \operatorname{AGGGGGGAACAGAAGGAGGGAGGA}$ A G G G G G G A GAGACTAAAATAAAAAAGGCAAGGAAGGACAA GA ACCAAGAAGTTCAGAAGAAGGAAAAAAGGAAGACCGGAGAGG A GAGGGGAAGAAAGAGAAAGGGGCAGGAGGGAGGGGAAAAAA A G G G G C C A A A A G G A A A A $\mathcal{A} G G G G G A A G G T T G G C G G G G A A G A G G$
 GAAAAGGACCAAGCCGAAAAAGGAGAGAACCGGAAAAGAAAA
 GAAAAGGGGGGGGGGAGACGGAGGGGGAAGGCAGGAA
G G G GCGACAGCAGGGAAGGGGGGGGGAAAGAAAAGGGAAAG
 GAAAACAAATTGAAAAAAAGGGGGGGGGGGGCCAAAAAAABA A A G A C G A A A A A A A G GACAATTGGGAAC GAAGAGAAAGGAAGG GAAGGAACGGGAAAGACCAGAAAAAAAAGAGGGGGGAAAAAA A G G G GA $A \operatorname{GGA} C A A A A A G G G G G A A A A A G G G A A A G G G G G G G A C A$ AGGCCCAGGAGAGACGGCAGAACGAGAGGGGGAGGAAAGGAG GAGGGGGACAAAACCAAGAGAACAAAAGACAAAGGAAGAAAG GAGAAAATTAGGGAGGAGGACGGAAGGAAAAAAGGAGAAGGA $G C C A A C G A A G G G G A A G A A A G G A A G G A A G G A G A A G G A A C C G G A$ AGGAAGAAGAACCAACCAAAAAAAAAAAGGAGAAAGAAGGGA AAAGGAAAGGCGGAACCAAGGAAGGGGACAAAAAGGAAAAAG GAAAAAAGGAAAAGGGGAAAGAGGGGGGAGAAA GA GAGAAAAG
 G G G G G A A A A G G A A G G A A A G G G G G A A A A G G A A A A A A G A A G A A G $G C G A A G G G G G G C A A G G G A G G A G A G A G G A G G C A A G G G G G G G G G$

A G G G G A A C C A A G G G G G A G G A G G G A A G GC CA $A C A G G G G A A G G G$ GAACCGGAGAACAGGAAGACGAAAGAAAAAAGAAGAAGAGAA A G G G G A A A A C C G G A A G GAA A G G GAA A G C CA A A GAG G G G G C C A A G G G G G G G G G GAGGGGGAAGGAGAAAAAAACCCAAA AAAGGG G G G TAAAGGGAAAAGGGCCAGGAGAGAGAGAGGAAGGGGGGG
 CAC G G A A A G A G A G C A G G A G A G A G A A A GA G G G G GA G A G G A G G G AGGGACCGGAGGGGGGAGGAAAAGGGAGGAACCGGGAAAAAA A A G A A A G G A G G A A A A G A A A A G G GAGGGAGAAAGAC GAAAGAA AGGGAAAGCGGCCAAAAGGAAGGAAAGCAAAGAAAGGAAAGA G G G A A A A A G G G A G G G G G A A G G A A G G C CAGGGAAAA GACAACA A A A A A G G A CAC G G A A A GTTAACCGGCAAGGGGGAAAAAGCCA
 G G G GAGGCCAAGAAGGGAGAAAGGGAGGACCGGGGAAAGAAA GAGTAGAAAGGGGGGAAGGGGAAGAAAAAGAAAAGAAAAACA TCCAAGGACACCCGGGGGGAAGGAAGGAGAAGAGGGGAGCCC C G G G G A A G GAA $A \operatorname{GAA} A \mathrm{~A} A \mathrm{~A} G A A A A A A A A A A A C A A G A A A A A A A G$ GCAACGGCAGGGGGGAGGAGGAAAAGAAGGAGGAAGGGAAAT AGGGGAACAGGAGGAAAAAGCCGACAGAAAACCAAGGCAAGAG A A A C C G G A A G A A A A G G G G G A G G G A A G G A A A G G G A A G G A A G G A AAAAAGGGACCCCGGCCGGTTGAAGGAGAGGCCAAGAAAGCG A GAGGCAGAAGCCGGGGTAGGAAGGGGAAAAAAAGAGAGGGG GAAAAGGAGCCAAACGGACGAGGAAAGGAGGGGAAGAATAGC C A A G G G G G G C C T T C C G G C C A A G G A G G G G G G A A G G A G G G G G G A A G G A A A A G G G C C A G G A A A A A A A G G G G G G G C A A A G A A G G G A A G GCAGGAAAAAAGGCCGAGAAGAGAGGAAAAACCAAAAAAAGC CAAAGAAAACCAACAGGAGAAAACCCCAAGGAGAGGAGGGGA GAGGGCCGGAAGGAGAAAAGGAAGGGGAAAACCAAGGGAGAC CAAAGAAAAAAAGAGAACAGGGGGGACAAAGGAGAAAAGCCG GCCGGAGAGCCGGAAGGGACCGACCGGAAAAACACAAAGGCA A A A A A A A A A GAGGAAAAAAGGAACCGGAGAGAAGAGGGAAAC A G G G GA G G GAACCCCAAGGAACCAAAAAAAAAA G GAAAGGGGG GAAGGGGAAAAGGCCAAAGGGTAACGGCCAAGACAGGGGGAA
 GAAACAAAAAAGGAAGGGGGGAGGGACGGGGAAGAAGCCGBA A G GCCAAAAAAAGGGAAAAAAGAAAAGAGGAAGGAATA GAGGG $A C C A A T T G G A A C C A A A A G G G G A A G A G G A G G A G G C A A G A G G G G$ G GAAGGAAGAAAACCGGAGAAAAGGGAAAAGAAAGAAACAAA A GAGAAAGGAAGGGGGAGAGGGAGAGGAACCGAGGGGACAAA A GACAAGGGGGGGGGCCAAAAAAAACCAAAAGGAAAAGAGAA G GAGGAAGGAAAGAGAGGGAAGAAACCAAGGCAGGGAAAACC C GAAAGAAAGAGGGGAAAACCAGGAAAAAGGAAAGAACCCCG A GAGAGAAGAAGGGGAAGAAACCAAAACCAAGAAACCAAGGG G G G G GCC G G G G G G A A A A A A G GCCGGCGGGAGAACCCCAAGAA ACCAAAAGGAACCGGGGAAAAAAGAAGAGGGAGAGAAAAGAA A GACCGGGGAAAAAAAAAAGAGAGAGGGGACAGGGCCCCACA A G G G G A A A A G G G G G G G G G G A A G G G G A A G G T T A A G G A A C C G G A
 AAACCGGGGAAGGAGAAAAAAGGCATAGAAAAAGGGGAGGGG G G G A A A A G A G G A A C C G A A G A A G GAGAGCCAAGACCGAAAAAG GAAAACCAAAAAACAGGAAGGCAAACCGAAGGAAAGGBAAAA A A A A A A A A A G G A A A A GAAAAAAAACAAGCAGACAGCCGAAAB G GAGGGGAAGAAAGAAAAGAGAGGAGGAAGGGGGGAAAAAAG A G G G GAA $\operatorname{A} G \mathrm{G} G A A C C A A G G A A G G A C G G A A G G G A G G G A A A G G G$ GAAAAGGCCTTGGAAGGAAGGAAAAGACAAAACGBAAAAGAA A A A A A A A G G A A A A G G G A A G GAGAAAAGCCAAAGGAAAA GAAC C GAGGGGACGAGGGGGGAAAACCGGCCGGGGAAAAAAAAAAC C C C G G A G A A G G G G G G G G A A G G G A GACGACACAGGGGCA G CA A AAAGCCACCGGAAAAAAAGGGAAGAAAGGGGGGCCGAAAAAA

G G GAAGGAAGGGGAAGGAAAAAAGGGGGGGGCCAAGACCGGA
 $G G A G G G A T A G A A G A A G G A A C C G G G G A A G G G G A A A A A A G A A A G$ GAGCCGAAAAGCCAGAGAAGAAGAGTAAAGGAAAACAAAAGA GAAACGGAGAGGAAAGGAGAAAAAAAAGAAAAAGGAAAAGGA A A A A A A A A G ACAAAACCGGAAAAGGCCAGAAAGCCGAAGAAA
 CAAAACCAAAAAACCAAGGGGGAAGCAAGGAAGCCCCGAGAAG G G G G A G G A A G G G G A A G G G A C C A G A A A GAA $A$ A A G G A C G G G A A G C CAAAAAAGGAAAAAGCAGGAGGAAAAACAAGAGCAGGCACCC GAACCGGAACCGGTTTTAGTTACAAAAGGAAAACAAAGECAC AGGCCAAAAAGAAAAGGCCGAAAGAGGGGCCCAAAGAAAGGG G G G A G C A A GAACA $A \operatorname{AGGGGGAAGGAGAGAACCCGAGAGAAAAA}$ GAAGAAAACCCAAAGGAGGAAGGGACCAAAAAGAAACGGGGG AAAGGGAAGGGAAAGGAAAAAAAGAAGAGAAGAGAGAAAAGA GAGGGAAAAGGGGAAAACCCCGGGAAACCGAACCCGGAAGAAA G G G G G G C G G G G A GCAGGAACCCCAGGGAGCCGGCAAACAA GA A A A A G A A A A G G G G G G G GAA $A \operatorname{G} G A A G G A A G A G G A A G A A C A G A G G$ GCCAGCCGAAAACAAAAAAGGAAGGGGAACCGGAAAGCAAAG G G G A A A A A A A G A A A A A A A A A A G GAGAA G GAGCAAA G GAA G G G GAGGAATGGAGCAGGGGAAAAGGGGGGCCGGCCAAAAGGGGG GAAAAAAAATTGGCCGGCCGGAAAAGGAAAAAAAAGGGGCCG GAAAAGGGGGGCCAAAACCGGAAGGAAAAGGGGGGGGGAAAG G G G G G A A A A G G A A G G A A A A G GAA $A \operatorname{AGGGAAAAGGAAGGGAAAA}$ A G G G G G G A A C C A A G GAA A GAAAA A GAAAGGGGGAA G GAA A G A AAAAAGGAAGGAAGGAAAAGGAAAAAAAAGGGGAACCGGGGA AAAAAAACCCCGGCCGGGGAAAAGGGGGGGGAACCGGAAAAG G G G A A G G G G G G G G A A G G A A A A $\mathcal{A} G G G A A G G A A G G A A C C A B A A G$ G G GACACAGGGGAAACCGGCCGAAAGGACGGAAGGAAGGGGG GAAAAGGAAAAGGGGGGGGGAACGGAGGAGAAGAGAGAAAAG G G G A G A A A A GAGGGAAAAAAAAAAAGGGGAGGAGAAAAAA GA G G GAGCCGAGAGGGGAAAAGAAAGGGGGACCGGGAAGCCCAG GAGAAAAGAAAACGGAAGGGGAGGGCCGAAACCGGAAAAAAA $A G G G G A G G A A G G A A A G G A G G G A A A A G G A A G G G G G A A A A A G B C$ C T T G G A A A A A A A A G A G G A A A G G G A A G G G G G G G G G G G A C C A A A G G GAA A GACGCGACCGACGCCAGAGGGAAAGAAGGGGACAGA ACAAAGAGGAAGGAGCAACAGAAGGGGAGGGGAGGAAAGAAA GAAAAACGGAAAAGGAAGGAAAACACAAGAGAGCAAGGGGGG G G GAGCCAAAAGAAAAAAAGGAAAGGAAGGAAGAGCCAGAAG A GAGAAAAAAAGAGGGAGGAAAGGAGGCCGGGGAAAACAAAG G G GAAACAAAGAGGGCCAGGACCGAAGGAGGGAGGAAGAGAA
 AGGAAGAGACAGGAAGAGGCAAAAGAACCCCCCGAAG
G GCCGGAGCACAGGGACAAAGAGAGGCAGGAAAAGGAAAAG GAAGGCAGGACAGGGAGAGAAGAGGGACAAAAAGGAGCAAAG AAGCAGGCCAAAGAGGGAGGGGGGAAAACAAAAGGAAAAAAG AGGGAGACCGGAAAAAGCCAACCAAGGAAAAGGAAAAGGGGT T G G A A A A A A G G G G G G G G C C A A A A G G G GAA $A \operatorname{GGG} G A A A A G G C C C$ C G GAA A G G G G GCCAAGGGGGGGGGGCCAAGGCCAACCGGGGG GAATTAAAAAAGGGGGGCCAAGGAAGGGGAAGGGGGAAAGGG GAAGGGGGGCCGGAACCCCCCGGAAGGCCGGGGAAAAGGGGG GAAAAAAGGGGAAAAGGGGAACCAAAAAAAAAAGGGGAAAAA ACCAAAAAATTGGCCAAAAAAAAGGAAAAAAGGGGGGAACAG GAAGGGGCCGGAAGGAAGGGGAAGGGGGGGGGGAAGGGGCCA A A A A A G G G G G GAA $A \operatorname{ACC} C A A A A A A A A G G G G G G G G G G A A C A G G G$ GGGAAAACCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAAAA A G G A A A A G GAACCGGGGAGAAAAGGGGAAGGGGAACCAGGAAA A A G A A A A A A T T A C A G G G G G A A G G G A A G G A A G G A A G A G C C A A A G GACAAGGGGGGAGGAAGGCCAAAACAAAAGGGAACCAAGAG

GAACCGGGGAAAAGGGGAAGGAGGGAAAAGAGAACAAAAAGG GAAGGGAGAGAAAAGAGGGACAAGGGGGGCAAAGGAAGAGAG
 CAAAAAAAAAGGAGGACCCAACCAGAGAAAAGGGAGGGCGGA $C G G A A C C C C A A A A A G G G G G A A A A G G G G A A A A A A G G A A G A A A G$ G G G G G A G G A G A GAA $A \operatorname{G} \operatorname{GA} A G A C C C G G G G G G A G G G G G G A G A G A A$ ATTGGGGAAAACCGGAAGGGGAGAAAAAGAAAGGAGAAACAG GAAGGAGGGAAAGAGGGAAGGGGAGCAGGAAGGAA GGGGGGG GGGCCAAGGGGAACACAGAAGAAGAAGAAGGGGAGAAAAACAA AAGCCGGAAGAAAGAAGGAGGAGGAGGAAAACCCCAAGGAAG G G GAGGGAAGGAAAAAAGGAGAGGGAAACCCCCAAAGCCABA AAAAAAAAAAACCCAGGGGGGCAGGGAGAGACAGGAAGGGGA A GAGGCCCCGGCCGGGGAAGACCAGAAAAAAGGAAGGAACAG A G G A A GC G GAA $\operatorname{C}$ G G G GAAAAAAGGAAACCCGAAAGGGGAAAAC C GAAAAGCCGGAAGGGGAAAAGGCCGAAGAAGGAAAAGAAAA $C \subset C G G G G A C A A G G G G G G A G A G C C G G A G G G A G G A A G G A A A A A G$
 AAAGGAAAACAAGAGCCGGGGCCGGGGAGAAAGAAGGCAAAG GGGAAGGCCAGGAGGAAGGGGAAGACACAAGCAGAGAAAGAA GACGGACGGGAAAAGAGGGAGAGGGGAGGGAAAGGGGAGCAC C G G G G A A A A G G G GC CAA $A \operatorname{A} A A C C G C G G A G A A G G A A A G A G G A A$ $A C C G G C A G G G G G G A A A G G G A G C A G G G G A A C A G G A C G G G A A G G$ GCCGGGGAAAAGGGGGGCCAGGAGAGGAGACAGAGAGAAAGA A A A A A A A GAAA A $A \operatorname{AGGAAAAGGAAGGGGGGGGGGAAGGAAAAA}$ A A A A A G GCCCCCC G G G G A A A A A G G G G G G A A A A A A G G G G G G G G G GAACCAAAAAAAAGGAAGGGGAAGGAAGGGGGGGGAAGAAAG G G GAAGGCCAAGAAAAATAGGAGCACACAAGGGAGAGAAAAG G G G A A GAA $A$ A A $A \operatorname{G} G A A G A A G G G G A G A G A A G G G G G G A A A A G A C$ CAAGGAACCAAAAGGGGGGAAGCGGAGAGGGGGGGGGGAAGA A GAGGGGAAGACAGGAGAAAAGGGGGGAAAAGGGGAAGAGGG A A A A G G A G G A A G C A G G G G A A G G A G G G G A A G G A A A G A A A G G G C $C C C G G A G G G A A G G C C G A C C A A G A A A A A A A T T G G A A G G G G G G A$ A G G G G A A A A C C G G G GCCGGAAGGAAAACCAAAAGGAAGACAA AAAAAGGCCAAGGAAAAGGAAAAGGGGCCAAAAGGGGCAAAA
 A A A $\mathcal{A} G G G G G G G A A A A C C G G G G C C G G G G G G T T A A A A A A A A G G G$ G G G G GAA $A \operatorname{ACC} G G G G A A A A C C G G G G G G A A G G A A A A G G G A A A G$ $G C C A A G G C C A A G G G G A A A A G G G G C C G G G G A A A A G G A A G A A A C$ CAACCCCGGCCGGGGAAAAGGGGGGCCCCCCAAGGAAGAAAG G G G G G G G A A G G A A A A G G G G G GC C A A G G A A G G A A A A G G C C G G G G G G A A G G G G G G A A G GCCGGAAAAAACCAAGGCCAAAAGCCCG G G G A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G G G G G C C G G A A G G C A A A G$ G G GAAAACCAAGGGGAAAAAAAAGGGGGGCCGACAAGAAGGG G G G G A G G A A G G G A G G C C G A A G G G G G G G A A A A A A A G G G G A G G A
 G GAGGAAGGAAAAGGAAGACCAGACAGAAAAAAAAGAAGAGG GAAGGGATAAGGAAAAGGGAAGGGGAAAAGGGAGGGGCAAAA A G GAGGGGGGGGAACCAAAGGCAGGAAGGAAGGACAAGAAAG ACAAAAAAAAAAAAGGAAAGGCAGGAAGGAGGAGAGGGAAGA A G G G GCCGGAGAGGAGAAAAAAAGGGGGAGAAGCAAAA GA GA $A A G G G A A G A G G C A A G A G G G G A G A G G G G G G G G G G A G G A G A G G G$ G GAA A A G A A A G G G G G G G G G G GACACACAAGGGAGGGAAACAA A A GAGAGAAGAAAAGAAGGAAAGAGGAAAAGAAGAAAAAAGC AAAGGAAGGAGGGCAGAGGAGCAACAAAAAAAAGAAAGGAGC CAAAA A A GAGGAAAAAGAGGGAGGAAAGGGAAGGAGGAAGAA CAGAACACAAGGGGGAGGAGAAAGGGGAGGGAGAGGACAAAA CAAGAAAGGAGCAAGGGGAAGAGAAAAAGAGAACAAGAAACB G G G A A A G A GCAGGGGAAGAAGGAGAAACCGAAAAA GAAAAG G GAGGGCAAGAAGAAGGGAAAAAGAAGGGGGGAAGGAACAGGG

A G GAGGGGGACAGAGAAAAGGAAGAAAAGGAAGCCAAGAAAG G G G A A A G A A G G G GCC G G A A G G G G A A A A A A A A A A A G G GAAC C $G$ AGAGAACAGGAACAGACAGACAGAAGGAAAAAAAAAAGGGGA AACGAAGAGCAGAAACCAGGGACAGAAAAAAAGCCAGAAGGG GCAAGGGGACCGGGGGGGGGGAAACAGAGGGGACCACCGAGG GAAAAGGAGAAGGAAAAAAGGACGGGACCGGCABABAAAAG G GAA A G G A G G G A G G GAAGGGGAGGGAAGGCCAAGGGAAGAAC C GAAGGAGGAAGGAAAAGGAAAAAAGGGGGAAAAAGACAGAA A A A A A A A G GAGATAGCGGGAAAAAAAAAGGGAAGGAAAAGCC $C \subset A C A G G A A A A G G A A A A G G A G A G G A A A A A G A A A A A G A A A A G G$ G G G G G A A G G G G A G G A A G GAAAAACCGGGGGGGGAA G GAA G G G GAAAAGGGGGGGGAGGGAAAAGAAAGAAAAAAGGAGAAGGGA A A G GAGGCCAGAAAAGGCCGGAGAAAGGGGAAAAAACGAAGG A A A A A A A A A A A G GAA $A \operatorname{A} \boldsymbol{A} A A G G A A A A G G G G G G G G A A G G G G G G G$ GAAAAAAAAGGAAAACCAAGGGGGGAAAGAACCAAACAAGGG GAGAGAGCAGGAGCCAGAGGAGAAGAAGAGGGGAAGAACAAA G GACCGGGGGGGGCCGGAAGAAAGGAAAACCGGAACCCAAAA $A C C A A G G G A A A G G A A G G T T G G A A G G A G A G A A G A A G G A G A G G G$ A G G A A A G G GCAGGGGAAAAGGCCGGAAGGAAAAGAAGGGGGA
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 G GAAAGGGAGGAAGGAAAAGAAAGGGAAGCCGCAAGAAACAG G G GAAAAGGAAGAAAAAGGAGAAAGAAAAACAGGGGGGGGGA $G G A A A A G A A G G G G G A A A G G G G A A A A G G A G A G G G G G A C G A G A A$ G G G G A G G G G A A G G CAA $A \operatorname{AGGAAAGAGAGGGAACCAAAAAAGGG}$
 G G G G G A A C C A A A A G GAGAGAAGAGGAAAGGAGGAAA GAGAA G GCCGGAAGGAGAGAAAAGGGGCCCAGAAGCCCCAAACAACAA A A GAA A G G GAA $A \operatorname{A} \operatorname{A} A A A A G G G G G G A A G G A A G A A G A A A A G A A A C$
 $G G A G G G A A A A A G G G G G G G G A A A A G G G A G A A C G A A G A G G A A C A$ G G G A A G GAAAGGGCAAAGGGGGACCAAAAATCAAGGGAGCAA AGGGGCCAGGGAAAAGAGGACAGAGCAGGGGAAAGAA
$C C A A A A G G A A A G C C C A A G A A A C G A A G A G G G A A A A G G G G G A G$ GAGCCGGACCAACAGAGACACACAGGAGGAAAGAGAACAAAA
 GAGGGATGGGAGAAAAGGGCAAAAACCAGCAGGGGAGAAGBG A A GAGGGGGATAGAAAAAAGGGGGAGGAGGGGGAGGAAAAAA GAGAGCCGGGGAAAAGAGGATGGGGGGCCAACCAAAAGGGGG GAAAACCAAAAAACCAAAAGGGGGGGGAAGGGGAAGGGAAAA A A A G G G G A A C A A G A G G G A G A G G G G G G G A A C C G A G G A C G A G G G AA $A G G A A A A A G G G A G A G A A A G G G A G A C G G A G G A G A A A A A G G A$ A GAGAAACCAGGAAAAGAGAAAAGGAAGGGGGAACAAAGGAG GGGAACCGGGGCAGGGGGGAAGAAGAAAAGGGAAAGGAGAGA G G A A A A TAAG $A$ A A A A A A A T TAGGGAAGGGGGGAAAAAAAAAAG GTTCCGGAAGAGGGACCGGCAACGGAGGACAGGAGGAAACCA GAAGGGAGGAAAGGAAGAAAAGGCCGGAAGGAAGGGAAACCB GAAGGAAGGAAAAAAAAGGGGGGAAGGGGAAAAAAAAAAATC G GAAGCCAAAGAGAGGGCCAAAAAAAAAAAAAAAAAAAAGGG

G G GCC G G G G G G G GA A G GAAAAAAGGGGGGGGAACCAAAAGAA $A C C G G G G G G A A C C G G G G G G A G G G G G G G A A A A A A G G G G G A C A A$ TGGGAACAAGAACAAAAAAGGAAAAGGGGCCACGGAGAAGAG $A C C G A A A G G G G G G A A G G C C A G C A A G G G A A C G G G C C A A G G C C G$ GCCCCAGAGAGGAAGGGAAGAACAAAAAAGGGGGGGAAGAAA GAAGACAAAGGAGCAAAACAAGGAACCAAAAAAGAAGACAAG G GAGGGGAAGGGGCCAACCAAAAAAAGACACCAGAGGAAAAA CAGGGGGGGAAGGCCGGCCAAAAGAACGGAAGGACAAAAAAA GAAGGGGGGAGGGCCAACCAAAATTAAGGGGAAGAAAAAAAC CAAAAGGGGGGACACGGGGCCAAAAGGAAGGAGGGAACAAAC
 A A A G A A A A A GAGGAGGGAAGAGAACAAGGGAGAGAAACAGGT AAAAGAACCGGGGAGAAAGGAGGCAAAAGAAAAAAAAAAAAC A A A A A A A A ATTCAAGGAAAAAAAGGGGAAGGGGAAAATAGGG G G GAAGGGGAAAAAGGGGAAACAAACCAAGCAAAAACAAGGA G GAGAAGGGCCATGAGGGGCCGGAAAAACCCAGAGAGGGCAC CAAAAGAGAGACCAAGAAAGGAAAAGAAGGACACGAAGGGGA A A A A A G GCCAAGGAAACAAAACCCCGAGGGACAAGGGGGCAG
 ACCGGGGAACAGGGGAAAAAGAAAAGGAAGAACAACCAAGGG G G GAGGGCCGGAGAGGGCCGGAGGAGAGAAGGAAAGAAACCG GAATAACGGACGAAGAGAGGAGGAAGGGGAAAAGGAACAAAG G G G G G A C A A G GAGAAAGGAAAGAGAAAAGCCCCAAGGGAAAA A G G G G G G A A C CAAAAAAAAAAAAAAAGGACAGACAA GAA GGGG AAAGACAGAAGAAGGGACACCGGAAGGAGGGGGGGAAAAAAG G G GAAAGCCAAGGAGGAGGGGGGGAGGGGAAAACCAAGGAGA A GAAAAAAAGGCAGGGGGGCCGGAAGGAAAGGAAGAGAAGGG AAAGAGGAGCCGGAGAAGAGAGGGAGACCAAGGGGAAAAGAA A G GAGGAGGAAGGGAGAAAGGAAAGAAAGCCACGAGGAAAAA AGGCACCGGAACCGGAAAAGAGAAAAAAAAAAACCGACAAAG G G G A A G G G G G A A G A G A G C C G G C C G A CAGGGAAAAAAA A GAA G AAAAACCAGGGTTGGAGGAAGGCAGGGAAGGCAAAAAGAAAA G G G GAAAGGCCGAGAGGAGAGCACCGGCCGGAGAAGGAAGAA A A A A A A A A A A A A A G GCCAGAGAGACGAGGCAAGCCAAGAAGG CA $A G G G G A G G G A A A A A A A A G A A G A G C C G A G A G G G A A C A A A G G$ A A A G G G G A G A G G A GACCAG G GAAGGAACCAAGAAACA GAAA A GCCGGGAAGAAGGAGCCAGGCGGGGAGAAAAAAAGAGGGAGG GAGAAGGAAGAAGAGAAAACCCCGGGACAGGAAACAAGAAAA A A A A G A C A A A A A A A A G GAA GAACAC GAACGGGGGGGACAGBA G G G G G G G A A G G A G A C A G G G G A A A A A A A A A G G G GAC G G A A G G G $G G G A A A A G G A G A A C C A A A G A C A G G A G G A A A A G G A G G A G A C C B$
 GAAGGAGGGAAAGGGGGAAGAAGGGGAGGGGAAGGGGAAAAG
 C GAGAGAAAAAAAGGCCGAGGACGGAAAAGAAGACAAGACCA C G G A G A G C A G G A A G G G G G G A A G G C C C C G G G G G G G G G G A A G G A A G GAA A GAAAACCGGAAAAAAGGAAGGAAGGGGAAGGAAGAC CAAAAGGAAAAAAGAAGGAGGAAAAAAGGAGGGAACAAAAAG GAAGGGAGAGAAACACAGGAGGGCCCCCCGGAAAAAGGAAGG $G G A A A A G G G G G G G G G A A G G A A G G G A G A G G G G A G A A A A A G G A G$ G G G GAA A AACCGAGGAAAAAAAACCAGGAAAGAAGAAAGCCG
 C G G G GCCAAGGGGGGAGGGAGAAAAAACCGCAAAA GAGCCCG G G GAGAAAGAACAAAAGGGCGAAGGGGAGAACCGGGGAGAGG A A GAAAGACAACCCCAAGGGGGGGGGGGAAGAGGGAGGAGAA C G G G G G G G GAAACGGGGGAAAGACAAAAAAAAAGGAGGAGA G A GAGAAACAAAACAGCACAGGGGCAAAGGGGAAAAGGCAAAC CA GAAAGGAAAAAAAGACACAGAGAGAAGAAACAAAAAAA GAC $G G A A G A A G G G G C C A A G G A G A G G G A G G G A G G G G G G G C A G A A A A$

AAAAACCGGCCAAAAGGAAAAAGGCAGATAAAAGGGGCAGAG GAAAAAGCCGACGAGAAAGAGAAGGGAAGAGGGGGGGAAAGC C GAAACCGGCCAAGGCCAAGGAAGGAAAAAGAACCAAGAAAA GAAAAGGCAGGAACCCCGGAGCCAAGGGGGGGGCCAGAAGGG A G GAAAAAGAAGGAAGGCCGAAAAGAGAGCCAGGGAAAAAAA A A A A A GAGAAAGGAAACAGAGGGGGCCCCGGAAGGAAAGAAAA AAAGGAGGAAGGGAAAGAGAAAAGGAAAGGAAGAGCCAAAAAA AAAGGGGGGCCAAAAAAGGAAAGAAAGAGAGGAAGGGGGGGA GAAAAAGCAGGGGAGAAAAGAAAGGAGGGAACCGAAABAGAC CACAAGGGGAAGGACGGAAAGAAGACGAACCAGAAGGCCGGG GAAGAAAAAACAAAAAAAAGGGGCCAGGGGGCCCCCACAAGG A GAGAGGAACCGGGAAGAGGAAAGAAGAAGGAACCAGGAAGG A A A A A A A GAGGGGAACAAAGACCCCAGGAGAGGACAGAAAAC C GAGAATAAAAACAGAGGAAAGGAAGGAAGGCCGGGGAATAC AAAGGGGGGCAGGGGGACCGGAACCAAGAGGGAAAAAGGAGG G G G G GAGAAAAAAGGCCAGAGACCCGGAAGGAAGAAAAGGAA ATTAGAGCAGAAAAAGGGGGAGGAGAGAGAAAACAGGAAAGG G G GCCAGGGAAAGAAGGGAGAGGGAGGAGAGGAGCGAGGGGA AAGGGCAGGAAAAAACCGGAAGGAGGAAAAGATGGGGGAAAAA A GACAGGGAAGAAGGGGAGACAAGGGGGGCCCCCAGGAAGAG A GAAATACCGAAACCAGGAGGAGGGAAGGACAGAGGGAACC G GAACCCCCCAGGAGAGAACAGAAGAAAGGAAGGGGAAAAAAA GCGAAGGACAACCAGAAGGGAAGAAAAGAAGCAAAGACCGGA C G G G A G G G A A A G G G G C C G G G A A A A A C A G G A A A G A GA G A A G G C CAAAAGGAAAGGGGGAAGGAAAAAAGGAAGGAACCGAAAAAA AACGAGGGGAAAAAGAAAGCCGGAAGAAGCCAGACAGGGGGG GAAGGGGAGAACCGGGGGGGGGGGGGGAAAAAAAATTAACCG GAAGGAAGGAAGGCCGGAAGGGGGGGGAAAAGGGAAAGACAA $A C A G A G G A G A G G G G G A A G G A G G G A C A A C A G A G G G G A G C C G A A$ AAGAGCAGGAGAAGGACGGCAGGGAAGGAACAAGGAAAAAAG A A G C C G G G G G G C C A G A G A G A A A A G A G G G A A A G A A G G G G G A G A $A C C G G A A G A A G A A C A G G G G C A G G A G A A A C G A G G G A A A G G G G A$

 A G G A A G G A A C C C C A A G G A A G G G G G G G G G G G G A A A A A A G G T T A A A A G G A A G G G GCC G GAA $\mathcal{A} G C C A A A A A A G G A A A A A A G G G G G G G$ GAAAAAACCCCAGGGGGAGCAAACCCCAAGGGAGGAAAAGGA G GAAGAGAAGAAGCCAGAAGAGAACCCGAGAGACCGGCAGGAA A A G G A G G A A A A G G A A C A GAGGGGGGGGCCGAGGGAAAAAGAA
 GACGGGGGGAAAACCAGAGGGAGGAAAAAGAAGGGGGCAAAA A A G G G G A T T G G G G A A A G G A A GA G C C A A A A A A G A A A G G G G A G G G GAAAAAGGAGGGAGGGAAGACAAGAAAAAAGGGGCC
$A G C C A A A G A G G A A A C C A A A A A A G G A A G G G A G A A C A C G A C C A$ $A C C A A C C A A A G G G G A T A A A A C G G G G A G T A A A A A G A A A G G A G C$ A A G G A A G G A G A C C G G G GAACCAAGGAACAGGGAAAGGCAAA G GCCAAGGAAGGCCGACCAAGGGAGGGAGAGAGAAAGGAAAAA A G GAAAAAAAA AAGGGGAAAAAAAAGGGGCCCCGGGGAAGGG G G G G G A A A A G GAACCGGGGAAGGCCGGAACCAAGGAAAAGAA A G G G G A A G GAA A G A A G G A A A A G G G G G G A A G G A A A A A A A A A A GAAAAAAAAAAAAGGAAAAGGAAAAAAAAGGGGGGAAABAAA AAAGGAAGGGGAACCAAAAAAGGAAGGAAAAAAAAGGGGCAA A G G G G G G G G G G A A G G A A G G G G C C A A A A A A A A A A C CAAAAAAA A A A A A A A G G G G G G G G G GAACCGGGGGGAAAAGGGGAAAAAAG GAAAAAAGGGGGGGGGGAAAAGGGGGGGGCCCCGGAACAAAA ACCAAAAAAGGGGAAGGGGCCAAGGAAGGGGGGGGAAAAGAA A G GAA A G A A A A G G G GCCC CAA G G A A A A A A G GAA G G G G G G C C A A G G G G A A A A G G G G G G A A C C G G G G G G G G G G A A G G C C G G A A A A A AAAAAAAGGGGGGCCGGGGCCGGAAGGAAGGGGAAGGGGGGA

AAAGGAACCAAAAAAGGGGGGGGAAAAGGGGAAAAGGGAAAA A A A G G A A G G G G G G A A A A A A G GAA $A \operatorname{A} G A A A A C C A A C C G G G G G G G$ GAAAAGGGGAAGGAAGGGGAAAAAAGGGGAAAACCAAGGGGA AAA A G G GAAAAGGGGAACCAAGGGGGGAAGGGGAAGAAAGGG G G GAAAAGGCCAAAAGGGGAACCGGGGGGGGGGGGAAAAAAC CAAAAAAGGGGAAAAAAGGGGCCGGGGGGCCGGGGGGGAAAA A G G G G G G A A G G G G G GAAAA A G G G A A A A G G G G G GAAAA A GAAA A G G A A G G G G G G G G G GAAAAACCCCGGGGGGGGAAAAAACAAAG G G G G GCCCCAAAAAAGGGGAAGGCCAAAAGGGGAAAAGGGGA ACCGGGGGGAAAACCGGAAAACCGGGGCCAAAAAAGGGGTTG G G G G G G GCCGGGGCCAAGGAAAAGGCCAAAAAAAACCAAGGG G G GCCAAAAAAGGGGGGGGAAGGAAAACCGGAAAAGAAAGGG GAAAAGGCCAAAAGGAAGGGGGGAAAAAAGGAAAAAAGGGGG GAAGGAACCAAGGAAGGGGAAGGGGGGCCAAGGGGGAAAGGB G G GAACCCCGGGGAACCGGGGGGGGAAAAAAAAAAGGGAAAA A A A A A A ACCGGAAAAGGGGAAGGGGGGCCGGCCAAAAGGGGC CAACCAAAAGGAAAACCGGGGCCAAGGAACCGGAAAAAAAAA $A C C A A A A G G A A G G G G A A G G G G A A G G A A G G A A A A A A G G A A G G G$ GAAGGGGGGGGGGAAAAAAGGGGGGAAAAAAGGAAGGCAAAG G G G G G A A A A G GCCAAGGCCAAGGAACCAACCAAGGAAGAAAA AAAAAGGGGAAGGAAAAGGAAGGGGGGAAGGAAAAGAAAAAG GAAAAAAAAGGCCAAGGAAGGGGTTAAAAAAAACCAAGGGGG GAAAAGGAAGGGGGGAAAAAAGGGGGGAAGGAAAAGGGAAAG GAAAAGGGGAAGGCCCCAAAAAACCAAGGGGCCAACCAAGGC CAAGGCCGGCCAAAACCGGGGCCCCGGAAAAGGGGAAGGGGG GCCTTGGAAGGAAAACCAAAAGGGGAAAAGGAAGGCAAAAAG GAACCGGGGAAAAAAAAGGAAAAGGAAGGAAGGGGGGCAGAA A A A A A G G A G GAGAGGAAGGAGAACCGAAGAAAAAAAAGGGGA AGGAACCCCCCAGAAACCCGGAGGGAAGGGGAAGGGAAAAAG $G C C A A G G G G A A A A G G C C G G A A C C G G G G G G A A G G G G G A A A A A G$ G G G A A G G A A G G GAA $A \operatorname{A} A G A C A G A A A G G G G A A A A A G A G A A A G A G$ G G G A A G G G G A A A A A C G A A G GAGGGGGAGGGGAGGGCCAAGAC C CA $A \operatorname{GA} A A G G G A A C A A G A G A A G A G G A G G A G G A A A A C C A G A A A$ A A A A GCAAAAAAAGGCCGGGAGGGGGGAAAAAAGAAGTAAAG GAAGGAAGGGGAACCGAAGAGAGGGAAAAGGAAGGGGGAAGG $G G G C C G G A A G G A A G A G A G A A G A G G A A G A A A A A G G G G A A A A A G$ AA $A G A G G G G A G G G C C A A A A A A G G G A G G G G G A C A G A A A G G G G C$ G G GAAAAAAGGAAAAGGGGAGAGCCGGAGAAGGAAACGGGGA $A C C A G A G A A C C G G G G A G A G G G A A G G A A G G G G A A A A G A G A C C A$ A G G A G GA $\operatorname{A} G \subset C G G A A A A G A G G G A G A A G G A A A G G G G G G C A A A A$ A G G G G A A A A A A GA $A \operatorname{AGGAGGGGAAAAACAAGAGGGGGAGAAAC}$ A G G G G G G G GAACCCCAGCCGGAAAGGAGAAGCCAGACGGGGG G G GCGAGCCAGAGGAGGGGAAGGAAGAAGGGGGAAGGAAAAA AAAGGGGGGGGAGAGAAGGAGAGGGAGGAGGAAAGAGAAGAG G G G GACAGAAACAGGAAGGAGAAGGAAAGAGACBAGGGAAGAG
 $G G A A A A A A A A G G G G G G A A G G G A A A A A A C C C A G A A A A A G A A G A$ GAGAAGGGGAGGGAAGAACCCACAAAAAAGAAAGGCCAACCG A GAAAA A A A G GAGGGCCGAAGGGACGGGGGGGGAGAAGAAGA GAAGGCCGCAAGAATGGAAAGCAAAGAAAAGGGAAAAAAAAA
 GAAAAGGGGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGC CAA $A \operatorname{GA} A A A G G C C G G A A G A G G C C A A G A G G G G G A G G G A G G G G G$ A GAA A G GAC G G GAGGGGAGAGAGGGAAGGGGAA G GAACCCGGG G G G G G G G A G G G A A A G A C A G G A G G G G C C G G G G G G G G A C C C C C C GAGGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAA GGGA $G C C A A A C G G C C G A G A G G G A G G C C G G G A A G G A G G C C A G G G G G A$
 GAAAAAAAAACAGAGCCGGGAGAAAAAGGGGAGGGGGGGGGG

G G G G G GAGGAGAACAAAGAAGACGAAGAGGGAAGAAAAAGGA A A G G G A A A A A A A G G G G G A A A GAA A G G G G G A A A CAAAACAAAA $A C C G G G G A A A A G G G A G A A A A G A G A A G G A A A A A A G A C A A A A G G$ GAGGATTCCAGCCGGAAGAGACCCCGAGGGGGGGGAAAACAA C G GAAAAACAAACCAGGGGAAGAGGTTACGAAGGGAACAAAA GCAGAAACCGGGGGGACAGGGAAGGCAAGAGGGGGAGGGGGA AAAACGGACAGGAAGAGACAAGGAAGGCACCAGAACAGAAAG G G G GAGGGGCAAGGGGAAGGCACGAGGGAAACAGAAGGAGAG A A A G G A G A G A G A G G A G G G G A A A G G A A G G A GACC G A A A G G G G A $A G G A A A A G G A G G G G G A T A G C C G G A G G G G A A A G A G G G G G G C C A$ A G GCAA $\operatorname{CA} A \operatorname{A} \operatorname{A} A A A G G A G G A C A A G C A G G G G A A G A G G G G A G A G C$ C G G G G GA G G C A GA G GAAAAAGGCGGGAAAAATAGGGGACAGGA A A G G A A A A A A A G G T T A A A A $A G G G G G G G A G G G G C A A A A C G A A G A$ C G GAGGGATCAGAGAGGGGACAAAACAAAAAAAAAGGACAAA ATTGAAAGGGGAAAACCGGACGGAAGGGGAAAGAGAGAAAAG AAAGGGGGGGGAAAAAAAAGGAAGACACCGGGAGGAGGAGAG GA $A$ A $C G G G G C C G G G G G A A A G G G G A A C C G G G G A A A A A A G G G A A$ C G G A A G G A G G A GAA $A \operatorname{GGGA} G A A A G A C G G G G G G G G G G A A A G A A A$ A A A A A G G G G GGCCAGAAAAAACCAGAACCGGGGAAAAAG G GA G G A G A A G G G A A G G G G G G A A G G G G G A G G G G A A G G A A C C A G G G G G GAAAGGCAAACAAAGAGGGGAAGGCCGGAAGGAAGAAAAGA
 GAAAGACCACACCCGGGAAGGAGGGCCAAGACAGGGGGGGGG GA $A$ A $A G A G G G G A A G G G A A C A C C A C A G G G G A A G G G G A A C A G A C$ CAAAAAACCGGCAAAGGGGCCGGAAGGAGGAGAGGAGAAAAA A G G G G GACC $C$ G G GAG GAGGAAGAAGGAAGGCCAAAA GGCCGGG GAAAGGAGAAAGGAAAAAGAAAAGGGGGAAGACGAAAGAAGG G G G G G CAAAGGGAAAAGAACCCCGAGGAAGAAAAAGAAAAGG GAACCGGGACCGACAGGGAACCCAAGAAAGAGGAGAAGAAAG GAAAGAAAAGGAAAAGGGGAAGGAAGGAAGGGGAACACAAAC AA GCCAAAAGGGGAAAAAAAAGGGGAGGAGAGGCCAAAACCG AACGGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGC
 G G G G A A A G A G A G G G G G G G G G G A C G G G G C C G G G A A G G G A A A G G $G C A A G A G G G A G A A A G A A A A G G G G G A G G A G G A A C A G G B A A G A A$
 $G C A A A C A A A A G G G G G G G G G A A A G G G A A G G C C G G A A A G G A A A G$ G G GAA A G G G G G GAAAAAGGGAACGGCCGGCCCACAGAAAAGC C A A G G A A A A G G G G G G A A G G G A A G A G A G G G G GA G A A A A G G A G A G GACAAAAGGAAGCCAAAGAAAAGGGGGGGAGGGGAAGGGGG GAGAAAAGGGAAAGAGACAGAGGGAAAACAGGGGGAAGAAAG GAGGGGAAGAGGAGGGGGGAAGGAAGAAAGGAAAAAAAAAAC CAAGGAGAAGGAGGGGGCCAAAAAAACAGACAGGGGG
CAAGAGGAAACAAAGACAAAGGAAGGGGCCAACCGGAAGGA $A C \subset A A G G G G G G A A G G C C A A C C A A A A A A A A A A G G A A A A G G G G A$ A G GAA $A \operatorname{GCCGGAAAAAAAAAAAAAAAGGGGAACCAAGGGGGGA}$ AAAGGAAGGAAAAGGAAGGAAGGGGGGGGAAGGGGGAAAAAA A G G G G G G G GCCCCCCGGGGCCGGAAGGGGCCAAAAGGGGGAG GAAGAACAAGGGGAAAAGGGGGGGGCAACGAAGGGAAAAAAA GAGGGGGAAAGACGGAGAGAGAGGGAGAAAAAAGGAGAAABA $A C C G A A A G G G G A C G G A A G G A A A A A A G G G G A A A A G G T T G G G G A$ AAAGGAAGGGGCACCCGAAAGGGGGGAGAAGAAGAAGCACAA G G G G A C C A A C C A A A A A G G GAAAGCCGGAACCCCGGAA GAAAA
 TAGGGGACCGGAGAAGGAGAGAGAAAGAGGAGAA G GAAGGGGG $G C C A G A A A G A A G G G A G G G G A G A A A A G G A A A C C C G A G G G A A G A$ GAGCCAGAGGGAAAACCGGACAGAGAAAGGGGGGAAAGAAGA AACGGAAAAAAGGCCGGCCAAGCAGGGGAAAAGAGGAAGAAG A A G G GAGGGCCGGAAGGGAAAAAAAGGGGAGGAAAAGGACCA

GAAAAAACAAGAAAAAGAAAGAAGAAAAGAGAAGGGGAATAA $A G G G G A A G G A A G G C C G A G A G G G G A G A A A A A C A G A G A A G G G G G$ G G GAGAAGGAAAAAAAAGAGGGGAAAACCGAGGAGGAAAAAA CAAAGGGGGACAAAGGCGGAAAAGAGGAAACGAGGAGGAAAG G G GCCCAA GAGAAAGGGAGGAGGGGAGGAAGGGGGGGAGAAA
 A A A G G A A G G G G A A A GAA $A \operatorname{GAAAGGGAAAGGAAAAGGAAAAGGG}$ GAAAAGGGGGGAAAAAAAAGGGGAAAAAGACACAGCCAAAGBG G A G A A G G C A G G A A C C G G A A A A A G A A G G G G A C G G C A G A G G G G G GAGAGACAGACGGAGCAGGGAGAGGGGAAAAGAGGCCGAATC C G G GAG GA GAAAAAAAAAGCAGAAATTAAGAGGAGGGGGGAC C T TCCAGGAAGGGAAAGAGGAGAAAACGGGAGGCCGGAAAAA A A A A A C A A A G GCC G GAGGACCAAGAAGGGGGCCAAAGGGGGA G G GAAA A GAGGCAAAAGGGGAGGGAAGAGAGGAGGAAACCCG AACCCAGAGGGGGGGCAAGAACCAGAAAAGGAAAAAGEAGGG
 ACAGGAACCCAGGCAAGCAAAGGAGAACCGGGGCGACCACCG $A C C A A G A A G C A A A C C C A G G G G G G G G A A G A A A A G A A G G G G C C G$ GACGGGGGGATAAAAGGGAGGGGACGCGGAGGAAGGGGAGGA G G A A G G G G A A G G G G G A A A A A A A G G A A G G G G G G A C C A A A G G G A GAGAAGGCAAAAGGAGAGAAAAAGGGGGGACGGAAGGGAAC G $G C C A A A A A G A A C C C C A G G A C A A C G A A A G G A A A A A A C C A G A A G$ G G G G G G G G G G G A G G G A G C A A G A A A A G GAC GAC C C C A A G G G G G G G G G G A A A A A A A A G G G C C A G A G G G A A GAA A A G A A A G G G G G G G G GAAAGACCAACCAAGGAAGGGGAAGGAAGAAAAAAGAAAAG A G G A A G G G A G G GAA A G GAACCAGGACGGAAGGAAAA GAAGAG ACCGGGGAACCGGAGCAGACCGGAAAAGAAAGGGGGGGAAAG GAAAAAAAAGGCCAAGGGAGGAAGGAGCCGGGGAAGGGAAGG A G GAA A G A A A A A G G A G G G G G G A A A A G G A G G A G G A A G G G A G G G G G G GAAAGACAAGAGGGAAGGAAGGAAGAACAGGGAGAAAGAG G G GCCAAAGAGAAAGAAAGAAGAGAGGCCGGAAGAAACGGGA AGGAAGGAAGGCCAACCCCGAGAGGGGGGAAGAGAAGGAGGG GAACAGGCAAGGGGGAAAGAGGGAAGAAGAAGGCCGGAGGGG GA $\operatorname{G} A A \operatorname{A} G A \operatorname{A} A A A G G A G A G A G G G G G G G G G G G G G G T T A A A G C C C$ CAGCCGAGAAACCGAAAGGGGGGAAGAAGGAAAAAGAAAGAA
 G G G G G G GAA $A \operatorname{GGGA} A G G A A C A G G A A A G A A A A A A G G G G A A A A G$ GAAAAGGGGCCAAAAAGAGGGCAAGAGAAAGCCGGAAGAGGA GA $A \operatorname{GGG} G \mathrm{G} G \mathrm{G} A A A \operatorname{A} A A A A A A A G G A A G G A A G G G G C G G A A G A G C B C$
 $G G A G G A A G G A A A C A A G G G G A A G G G G A A G G G G C A G A A T C A A A G$ G G G A A C C A A A CAAA A GAAAGGGGCCAAAACCGAGGACCXGGA GAAGGGAGGGGGAAGAGACAGGGAGGGGAGAAACACCAGACA A A A A A G G G GAA A G G GAGAGGGAAGAGAAAGGCCCAGGAAAAA GC G G A G G A A A G A A G GAA $A \operatorname{GCC} C A A G G G G G G G G A G A C C C C A A C B$ A G G G GCAAAGAAGCCAACAAAAGGGATAGGGGAGGAGAAAAC CAACCGGAACCGGAAGGAGGAGGAAGGAAGGAAAAAAGGGGG GAGCCACGGGAAAGGGGGGGGCAACAAAGGGAAGAAGCCAAA AAAAACCGGAGGAGAACAAACAAACGGAGAACCGAGGCCGBA GAGAGGGCGAGGAGAAGAAAAGGAGCAAGGGAAAAAAGACAA G G GAGAGCAAACAGGAAGAGGAAAAGGTTCCGGGGCCCCGGA A G GAGCAGAAGGGAGCCAAAAGGAAGAAAAGCAAAGGAAGGG
 GACGGAAAGGGGGGGAGAAGGAGGGAGGAAGGAGAAAGAAGA GAAGAAGAGAACAGGAAAGAGCCAAAAGGAGCCCAGAGAGAC
 A GACCGAGGAGAAGGAGCCGAAAGGGAGGAAGGCAAAAAABA G A A A C A G G A A A A G A GA GAGAA GAA G G G GAC GACAA G G G G G G A AAAAAAAGGAAGGGGGGGGAGGAACGGAAAAGAAAGGTXGAA

AAAGGAGGGCCCCAGCCAAGAGGAAAAGAAGAAGGAAAGAAG
 GCCCACCGGGGGGGGCGGGAAAAACGGGGGGAAACBAAAACG A G G GAAAGGAAGGAACCGAGAGGGAGAGGGGAAGGAGAAAC G

 C C C G G A A A A G G A A A A G G G GCCAAAAACCGGGGCCA G GA G G G G G G G G G A A G G G G A G G G G G G A A C C A A A G G GAA $A \operatorname{AGGGAAAAAAGGA}$ C A G A G A A A A C C A G G G C C G A G G C C G G G C A A G G A G G G A G G G C A G A G G G GAAAAAAGGAAAAAAACGGAGGAAGAGGGAAAGAGAGG A G G A G A A C C G A A G G G G G A A G G G G A G G G G A G G G G G G A A G A $G A G$ GAAAAGAGGAGGAGACAAGGGAAAAGGAGGGAGGAGAAGGAA A G G A A A $\operatorname{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAAAAGGCCGGGAAAAAAA A A G A A G A G G G G G A A A A A G G C C G G G G A A G A C C G G A G G G A A G G C CAAAAGGAAGGAAAGAAAGGGGAAAGAAAGAGAAAAGAGAAA G G GAA $A \operatorname{GAA} C C G G G G A A G A G G G A A A G G A G G G A A G G G G G G A G A$ GAAAAAAGGAGAGCCGAGACCAGAAGGCAAAAAGAAGAGACG G GAGGAGAAAAGGAGCAACAGGAGGGAGGGGGGAGGAAAGAG $G C C G A A G A G G G G G A A G A A A G G G A A A G G G G G G A A G A A A G G G G A$ CAGCCAAAGAGGAGGAAGGGGCACCAACCGAAGGGGCGAAAA AAAGGAGAGTTAGAACCAACAACGGAGAAAAAGAGGAGGGGG G G GAAAACCGGGGAAAGGGAACCAAAGAAGGCAGAGGAGCAA
 A A G G A G GCCGGGGAGAAAGGGGAGGGGGACAGAAGGGCAGAA
 A GAA A GAAAAGAAAGGCAAAGGACAGGGGGGTTGAAACAAAG GAA A G G GAGGGGGAAAGAGGGGAAAAAAACCGGGGCCGAAGA A A A A C A A A G G A GAA A G GAGAAGGGACCGGCCAACACCGAAGB G G G A A A A A A A A G G G G G G A G G G G G G A A A A A A $\mathcal{A} G G A G G G G A A G G$ GAACGGGAAGGCAAATTCAAGAGGGGACCGCAGGAGACAAAA
 C G A G G G A A C G G A A G G G A G G A GAGGGGGAGAAGAGGAAA GA G G A A GAAAGGAGAACCCAGAAAAGGGAGGCCAAGGAACCAAATAA G G G A G G A C A G A G GAGCCGGGGACGAGGAAGGAAAACAGAAAG A G G A G A G A G A A A A A GAGAGGAAGAAGCGGAGAAAAGGCAA GA A A A G G A G A G G A GA $A$ G A GAGAAGAAGGAAGGGGAAAACCAAAAA A G G G GCC $C$ G G G G G A A A A A A A G G G G G G G G A A G G C C G G A A A A G G C $C G G G G G G G G A A A A T T A A G G A G A G G G T T G G A C A A A A G A G G G G C$ C GAGGGGGAAAGGAAGAGACCGACAAGAAAAGGGGGAAAGAA
 A G G G G GAAAGGAAAAACAGGGAAGGAGAGCAGAAAGGCAGAG G GAGGCCAAGGGAAAAAGGACAGAAAAGGAAAACAAAAGGCC A GGGAGCCCAAAAAAGGGGGGCCAAGGGGAGACAGGG
$C \subset A C G A G G G A A A G G G G G G G G C C A G G G G A A G A C G A G A G G G G A$ CAGAGAGACAGAAGGGAGGGGAAAGGAGGAGGGAAGGAAGAG
 AAAGACCAAGAAGGGAGAGAGGAAGGAAGAAGGACAAGACAG G G G G G G GCCAA G G A A G GCAAACCAAAAGGGGGGAAAACCGGG GAAGGAAAAAAGGAAAAAGGACAGGGAGGAACCGAGAAAGGG $G G A A A A A G G C C A A G G A A G G G G A A A A A A C C G G G G G G A A A A G G G$ G G G G G A A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A G G A A A A A A A A A G G G A A G G G$ G G G G G A A A GAA A G G G G A A G GAA A G A A A G GAA A A A G GAA GAC C A A G G A C G A C C G G A G A A G G C C G A A G G G G G A G G G A G G G C C G G G G G GAAA $A$ A $A$ A $\operatorname{A} G C A A A A G G G G G A A A A C G A G G G G A G G G G G G C G G G$
 $G C C A G A G G G C G A G G A A G C C A A A G G G A A G A A A A A A A A A A G A A G$ AAGGAAGGACCGGGGAAGGGGAAAAGGCCAAAACCCCAAAAG A G G A G A G A G A A G G A G A A GAGGAAAAGGAGGAAGCACACAACC $C G G A A G G A A A G A G G G C C C A G A A A G A G G A G A A A A A A A C C C C A G$

GAGAGACGGAAAAGGGGAGAACAAAGAGGGGAGGGAAGAAAG GCCCCGGCAAGAACCGGGGGGAGGGAGGAGGAGGGGGA$A X A G$ GAAGAGAGGGGGAAGCCAAGGAGAAGAGGAGGAAAGGAGGGG GAAGGGGAAGGGGAGGGAAAAGAAGAGAAGGGAGAAGAAAGA ACAAAGGGGGGGGACACGGGAGAAACCAACAAGAGGAAGAAG A A A G G A A A A A A G G G GAAAA $A \operatorname{A} A A A G G G G T T T T A G C G G G G G C C G$ A G GAAAGCCAAGAAAACGGCCGGAAAGAACCAAGBAAGGGGC A G A A A A A C A A G A A A C G G GAAAAGAACCGGCCAAAAGGGAGAA GACGGAAGGAAAGGAACGGCCAAAGAAAAAGAGGGAAAAGGT TGGAACCAAGGGAGAGAGGCAACGAGGAAAGGAAACAAAGGA
 A A A A A A A A A GACAAAGGCCTAAAAGGAGAAAACGGAAGAAGG GCCGGGGAGAAAAATGGAGACAAGGGGAAAACACCGGAAAAA A A GCAAAAAAAAA G A A A A A A CAAAAAGGGGGAGACAGGGATT A GAGAA $A \operatorname{A} A C C G G C A A G A G G G C A T T A A C C G G A A G G G G G G A G C$ A GAGAGGTAGGAACCGAAGACGAGGACGAAGAAAAGGGCGAA G G G G A G G A A A C GAA $A \operatorname{GGGAAGGAAGAGGAAAGAGAAGGAAGGG}$ GAAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGAA AAGAGCCACGGAAGGGAGGAACCAGAAAAGAACGCAAAAAAG G A A A A A A A A A A A A A A G A A A A A A A A A A A G G G G G G G G A A A A G G G GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA AAAGGAAGGAAAAGGAAGGAACCGGAAAACCAAGGGGGAAAA $A G G G G A A A A G G A A G G G G A A G G A A G G G G A A G G G G G G A A G A A A A$ A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G GAA $A$ G GAAAA $A$ A A A G G G G A A $\mathcal{A} G G G A A A A A G G G A A A A G G G G G G A A C C A A C C G G G G A$
 $G C \subset C \subset A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G A A A G$ GAAGGAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAAC C G G A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A A A A A A A A C C A A G G G G G G A A G A A A C$ CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACCAACCB GAACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGG G G GAAGGAAGGAAAAGGCCAAAACCAAAACCTTGGGGAAAAA ACCGGAAAAGGGGGGAAGGAACCAAGGGGGGCCAAAACAAAG GCCGGGGGGAAAAGGAACCAAGGAAGGGGAAGGGGAAGGCCG
 G G A A A G A A GAAAAATAAGGGGGGAAAAGGATCAGAAAGAACC AAAGGAAGGAACCAACCTAAAGGAGGGCAAGAAAAAGGAAC G G G G G GCCTTGGAAGAAGAAGCACAAGGAAGGAAAAAAGGGGT TAACCAACCAAAAAAGGAGAGAAGGGGGAAAAGAGAGCAA GA GCAGAAAGGAAAAAAGGAAAAGGAAGGGGAAGAAAAGCAAAC CAAGGGGAAGGGGAGCCAAGAACAGGAGAGAGCAAAGAAAAA A G G T A A A G A G A CAC CAAAAAAAAAGGAGGAACACCCAGBGGA AGGAAAAAAGGCAAACAACAAAGCCGGGGAAGGATAAAAAGA A A A A A G G A G A A G G G G GAGAGGCCCCGGCGAAGGGGACAACAG G G G G GCCAAAAGGAAAAAAGCGGGGAGAAAAAAGGGGCCGGG G G G A A A C G G A G G C G G G G G G A G A A A A A G G G A GA G A GA G A A A G A GAAGACAAACCGAACAGGGCAGAGGGAATGAGACAGAGAAGC C G G G G G GACCCAGAGAAGGAAAAAAGGAACAAGGAGAAAGAA
 GCCGGGGGGAAGAAGAGGAAGAAGAGGCCCAGGAAGAAAGGG G GAAAAAGGGGAAGGAACCGAGGAGGAGGGAGGAAAGGAGAA A A A GAGAGGGGAACCCCGGAGGGACAGAAGGAGAAGGAAAAG GAAGGCGAAGGACGGGGCCCCCAACGGGGGAAGGAAAGAAAC $C G A G G C A A G A A A C G A G G A A A A G G G G A A G A A A A A G G C C G G G G G$ GAAGAGAGACGCACCGGAGCCGGGGAGGAGGGAGAGGGACCG G G G A A C A A A A A A A A A GAAACCGGAAGGAGGGCACC GAAAAAA C G G TAACA $A \operatorname{A} G \mathrm{G} A A A A G G A C G A A A G G G G A C A A G G C C G A A A G G G$ GACAA G G CAC CA A A A G GAGGGGGAAGATTCCAAGGGAAAAAA $A G A G A A A G G A G A A A A G A C C A A G G G G A A C A A A A C G G G G G G G A A$

A G G G G A A A A GAAC G G G GAAGGGGAGGAAAGAACCCGGAGAAG G GAA A GA G GAGAGAGGAGGCAGGGAAGAGGCAAGGAAAGAAA GAGCCGAGGGGAAGGACGACAGGAAAACCGAGACCAGAGGGG A GACCAAAAAACCCCGGAACCAAGGGAAGGGCGAAAAAAGGA AAAGGGGGGCCGGAAAAGGAAGAAGACAGCCAGGAGAAGAAA A G G A A A A A A G G A A A A A A G G G GAAAAGGAAGGGGGGAAAAAAA A A A A A A A G GAA A A A A A A A A A A A A A A C C G G G G G G G G A A A A A A A A G G A A G G A A G G G G G G G GAA A G C C G GAAAAAAAGGAA G G CACC G GAAAAGGGGAACCGGAAAACCAAGGAAAAAAGGAAGGGAAAA A G G G G G GAAAAAAGGAAAACAAAGGGGCCGGGGGGCCCCGGA AACGAAAAAAAAAAAGGCCAAGGAAGGGGAAAAAAGAGAAAG GACAAGGGGAGAAAAAAAAGGGGGGAAGACAGGCCBAAAGAA AAAGGAAGGAAAAGGGAGGAGACAAGGGGCCAAAGAACAAGA ACACCACATACCCCCAAAAAAAAAGCAGAGGAAGGGGACAAA GGGAAGGAAAAGGGGAAGGGGAAAAAAAAGGAAAAGAAAGGA AAAGGCCGGAACCAAAAAAAAGGAAAAAAGGGGAATTGGGGA A G G A A G G A A G G G G A A A A G G A A G G A A A A A A G GAAAAAAAA A A A $A C C G G G G A A A A G G A A A A A A G G A G A A G A G A A A A A A A A A A A G A A$ G G GCCGGGGGGAAGGGGACAGAGAAAGACAGAACCAACAAAA A A G A G A A A G G G G G A A A A A A A G G A G G C C G G G G G GAC C A G G G A G G GAGGGGAAGGGCGGGAAGGGGGGGAAAAAGGGAAAAGAACG A GAGGCCGGAGGGAGGGGGAAGGAGCAAGTTAGAAAAAGAAA A A G G A GAA A A G A A C CAGAGGGGGAAGAGGAAAACCAGAAAAA G G G A C A A G G A A A A G A CACAGGGGAGGAAGTAAAGAAGAAAAA A A A A ACCAAA $C$ C GAGAGAAGGAAAAGGAAGGGGAAGAAAAA GA $A C C A A G G A G A G C A G G A A C A G G A A G G A A A A C G A A G G G G A G G G A$ A G GAACCGGCCAAGGAAAAAAAAGAGGGGGGCCCCAAGAAAAA A G G G G G G C C A G G G G G G G G G G G G G G G A A G A CAAA A GAACAAA $A$
 GATAAAACCCCGGGGGGGGAAGGACACAAAAAACCAAGGTTA G G A A A A A G G G A A A A A G G A A A A G G G A G C A A G G G G A G A G A G A G A G GAGGTTAACCGGGGGGAAAAGGGGCCGGGGAAAAGGGBAAA GAGACGAGAGGAGCGAGGGGAAAGGGGAGGGGAGAGAAAAAA $A C C G G A G A G A G A A A G G G G G A G G G A A G G G G A T A C A G A G A A G G A$ A A GAA A GAGCAAGAGGGAGAGGAACGGCACCGGCAAAAAGGG A G A A G GA G GCCCA GAGGGAAACCAACATTAAAACCGGGAAAA AAAAAGGGGAGGAAGAGAAAAAAGGGGGGGGACGAAAAAGGA A A A A A A A A A A A GGCAAACAAAAAAGAAAAGAAAA GAGGGGGA A A A A ACCGGACGATTAAAAAAAACCAAGAAGCGAGGAAGGAG AAACACCGAACGAGGCCAAAAGACCAGGAAACCAAGAAGGGG GAACACACAGAAACAGAAAGGAGAAGAAAAGCAAAGAAAGGA A GAG $A \operatorname{GG} G C \subset A C A G G A A A G G G G G C A A A G G G A A G G A G G G A A A B A$ $G C G C C G G G A A A G A G G G G G G G G A A G G G G G G A G C C C A A A$
$G G A G A A A C A A A G G G A A G G G G C C G A G G A A G G G A A A A C G G G G A$ $G C A A A A G G G A A G A A G A G A A A A G G C C G G G G G G A A G G C C A B A A G$ A A GA $\operatorname{A} A A A A \operatorname{A} A G G G G A A A T C C A A G G A A G G A A T T A A A A G A A A C$ C C C G G A A G GAAAAGGAAAAAACCGGGGAAGGAAAAAAAAGGG GCCAAGGGGCCGGGGAAAAAAGGAAAAGGCCAAAAGGACAGG C G GAAAAGGCCAAAAAACCAGAAAAGAGAGGGGCCAAGAAGC CAAACACAAGGCCAGAAGAGGAGGGAGGAGAACACBACAGGG G G GCCAAGACCGGGGGAAGGGGGAAGGGGAAAAGGGGCACAG GAAGGGGGAAGCCGGAAGAGGAGAAAGCAAAAGAGGGCAAGC C G G A A G A G A G G G G A G A G G G A A T T A G G A A A G G G A A G G G G G C C A G G GAAAAGCGGAGGGAGAGGGGGCCACGAAGGAAGGAAGACG GCCGGGGCCAAAAAAAGGAGAGGAGAAGACCAAAGGAGAAAA $G C C A G A G G G A G G G G G G G A G A A G G A A G G G A G C G G G G A A A A G G A$ GACGGAAAAGGCACAGGCAGGGAAGGCGGAAGGAAGGGAAGA
 $A G G A A G A C C A A G A A A G G C G A A G G A C G G A A G G G A G G G G A A A A G$

GAGAACCGGAAACGGAAGGGGAAGGCCGGGGAAAACCAAGGC C C CAACAAAGGGAGAAGCCGGGGAGAAAACCGGGAAGGGGAG A G GACGGAAAAAAGGGAAGAGCCGGAAGAAGAACCGGAGGAG G GAGGGGCCAAAGAGGGAAAAGGGGGGAAGGAACCGGGAAAA
 G A G A A G G A G G G G G G G A G G G G G G G C C G G A C A G G G G G G G G G G G A GAGAGAAAAGGGGGGAAGGAAGAAGGGGGAACCABAAGGCGG GGGAACCTAGAGAGGCCGGGGAAGGAAGGGGAAAAAGAGGGA
 AAAGGGGAAGAGGGAAGGAAACCGACCGAAACCAGGGAAGGA A GAGGGAAGAAAAGAAGAAAAGGTTAAGGAAAGAAGAAGA GA C C C G G A G G G A A A G G G G G G G A A G G A G G G A G A G G G A G G G G G G G A A A G G A A C A A G G G G A A C G A G GAAA $A \operatorname{AGCCAAAAAGAGGGAGGAC}$
 TGGGGGGAAGGAAATAACCAGGGAAACGAAAGGGGAAGAGGA GCAGGGGGGAAGGGGGGAGCCCCGGAGCCGAAACCGGAAGAA GACGGCAAACCCAGCAGAAAAGGAATTAAAGCCAAAGACABA GAGAAAAAGAGAGGGGAGGGGACGGAAGGGGAAAAGAGAAAA $G A C C C A G A A C C G G A A G G A A G G A G A G G G A A A A C C A A G G G A G G A$ G G G G A A A G G G G G A A G G A G A A A A A A A A A C C A A A A G G G G A A G G A A A A G GAAGGGGAAAAGGAAGACAAGAGGGGAAAGAGAAAGAA GAGTTAAGGAAAAGGAAGGAAGGAAAGAGGAAGAAGAGAAGA A A A G G A A G AC GCCAGAGAAAAGAGGCCCCGGGAGGAAAAAAA GCAGAAAGAGAGGAAGGAGGAGAGAAGAGGGAGAAGGGAACA G G GAACAGAAGCGAGAAGAAGAGAAGAGGGGCAGGCCGGGGC C T TATGGGGCCCCAAAGAGACAGGGCAAGCCGGAGGACCGAG AAAGGGGGGACGGAACCAACCGGGGGGAAAAGGAAAAAAAAG G G GCACCAACCAAGGAAAGAAAGACAAGAGGGGGGAAAAAAG GCGAAGGGGGAAAGGGGGAAACAGGGGAAAAGGAAAAAAGAG GAAGGAGAGCAAAAAAGAGGGGGGGAAAGAGAGGAGAACCCG A G GAGCAGACCGGACCAAGAAGAGAAAAAAAAACAAGAAAGG GAGAAAAGAGGGGAAGGCCCGAAGGGGAAGGAAGGAGAGGAG
 G G G A A G G G A A ACCAATTCCGGAAAAAAGGAACCTTGGGAAAG G G G G G G G G G A A A A A A A A A A GGCCGGCCAAGGCCAACCAACAA A A A G A G G A A G G G G A A G G G G A A G G A A A GAA T T T G GAC CA CAA A G GACAAAAAAAAGGATGGCCGGAAAAGAGAAAGGGATTCCGGA AAAGGAAGGGAGGAGGCAAGGCCCCAACCGGGGAGAAAAGGG ACAAAGGAAGGAGAAAAAACCAACCAGAAAAGAAAGGAAGAG ATTAAGGAGAAGGACGAAAAAAGACAAAAAAGGGGGACACCG GATGAAGAAGAGGACGGAGGGCGAGGAAGGGCCGACAGGGGA A A A G A A G G G A A G G A A A A A A A A G G A A A A GAGGGGCCA GAA G G A AAACCAACAAGAGAGAGAGGGCCAAAGAAAAGGCCAAGAAAA GAAAAAACCGGAAAAAACAGGGGGGGGAGGGCGAGGGCCCCB A G G GAA A ACCCAAAGGGAAAAGAAAAAAGGAGGGAGGGAGAA $G G A A A G A G G G A A A A G G A G A A G T T G G C G A A G A A G A A A A G G G G A$ A G A A G A A G G G G A A A GCCGGGGCAAGAAGGAAGAGAAA GAGAA A G G GAAACCGGCCAAAACCCCCCGGACCCAGCCGAGGAAGGG A GACCGGAAGGAAAAGGAAGGGAAGAGAGAAAGAGAACCGGG A G G G G A A A A A A C C G A A A A A G GAAAAAGGCAGGAGGGGGA G GA G A A G G G A A A A A G G G G GCCAA $\mathcal{A} G A A G G G G A G G G G G G A A G A A G G G$ GAAGGGAAACGAGAGGGGGGGGAAGAGCAAGAAAAAAAAAAG GAGGAGGACCGGGAGAGAGGGACAGGGGGAAAAAACCTXAAG G G GAACCGAGGGAGGAGAGAGTAGGAAGAAGCAAGGGGAAAG GAGGGGGGGAAAAGGAAAAAAAGACGAAGCAAAAGGGAGCCA $G G A A G G A A A G G G G G G G A G G G G A A G G G G A G A A C C G G A G G A G A G$

 G GAAAAGAGCCAAGAGGGGAAGAAAGGGGAATTCCAAGAAGG

G GAAGCAGGGGAGGGAAAGGGGGAAAAGAGGGAGGAAGAAGG A A GACAAGGAAGAAAGAGAGAGGACAGAAGAGGAAAAAAAAC C G G G GAGAAGGAGCAGAAAAAGGGGAAAGAGAACACCAAAGAG A G GAAAGGGAAGGGGGGAAGGGGAAAAAGAGGAGGAGAAGGG AA $A \operatorname{GA} A G A A G G A A G G A A A A G G A A G G T A A G A C A G C C G A G G G G A$
 A G G G A A A G A A G A C G A G A G G A A A GAAAAAGGAGAAACCTXGAG GAAGAGAACGGGGAGGAAAGAACCCAGAAAGAAGGAAGCGGC CAAAA $A \operatorname{A} A A A G A A G A G G G G G G G A A A G G G C A A G G A A A A A G G G G A$ AAAAGGAGAAAGGAAAGAGGGGGGAGGGAACGCCCACCAAAG
 A T T G G G G A A G G A A A G G G G G A G G G C C C C G G G A G G G A C C G G G G G ACCGGAGAAAGCCGAGGAACCGGAAAAAGAAACGAGAGACCG $G G G T T A A C C G A A A G G A A G G G G A A A A G A C A G G A A A G A A G G G G A$ C GAAAAATTCAGGAGGGAAAAAGAAAAGGAAGGAACAAAAAA AAAAGAAGGAGAAAAGGAGCCAAGACCAAGAACAAGGGGGGA $A G G G G G A G G G G G A A G A G G A G A A G G A G G G A G A C C A A G G A A A G G$ A A A A A GACAAA A $A$ A A G G GAGGGAAGGGAGAAGGGGGAAA GA GA CAACCGGAGCAAGAGAAAAAAGGAGAGGGGGGGAAGGCCGGA A G G G G A A A A A G A A G G A A A A A C A GAGGGAGGGA GAGCCGGCC G G G G G G A A GACAA A A A G GAGGGGGACCGGAAGGAAGAGGCAAAA GAACCAGAGAGGAAAAGCCGGAAAAGGGGAAGGAGAAAAAAA A G GAAAACAGAAGAACCAGGGCCGGGGAGGCGAGGGGACGAG GAGAAGGAGGGAAAAGGAGAGAAAAAACCGGCCAAAAAGAAG $G G G G G A A A A G G G G A A G G G G A A A A G G C C G G A A A A G G A G A A A A G$ G GAGGAGGGGGGGAAAAAAAAGGAAAGAGACGGAGAACAAAG A GAAGGAAGCAAGAAAACCAGCCAAAGAAGGCCAAACAAGGG G GAACGGGCACGGAAAAAAAGAGCAAAGAAGAAAAGGBACAA A G GAAACACGGAGGAAAAAAGAAGGGGAAAAAGACAAGGGAA AAAAAGGGGAAAAAAGGGGAAAAAAGGGGTTAGAAAAAAAAG G G G A G A G A G G G GAGGAAGGAAGGAGGGGGAAAAAAAAAAAAA A G G G G G GAAGGAAAAACAACCGGACAGCCAAAAGAAGCAACAA GCAAAAAAGAGGAAAGGAGAAAAAAGGCCAAAGGACACAAGB GAGGGGGAAGGGCAGAGCCGGACAAGGGGGGGGGAAA$G G G G G$ GAAAGGAAACCGGGGGGAAGAAAGACCAGGAAGGGAGAAGGG GAGGGGAAAAAAAGGGAAAAAGGAAGAAGAAGAGAAAAAA GA GAAAAAAAAAGAGAACAGGAAGGGAGAAGGGAGGGGAAAGGG A A GAA A G GAGGCAGGGAAAGGGGAAGAGGAGGAAGAAAAAAA

 GAAAACCGGGGAAGGAAGGGGAAGGGGAGAAGAGAGGCAAAC A A G GCAAAATTAAAACGGGCACCAAAAGGAGAAAGGGGACCG GAAAAGGACAAGGGGGGGGAGGGGGCCAAACACAGGG
A A GAGGAAAAACAAGGGGAAGGGAAGAAGGGGAGCAGGGGG GAAGGGGAGAAACAAGAGGAAAGGGGGAGACAAAGCCAGGAA A A A G G A A $\mathcal{A} G G G G G A A G A G G G G G G A A C C G G G A G A G A G A A G G A A$ AAAAAAGAGAAGAGGGGCCGGAGGAGAGGGGGAGGAGAGGGG G GAAAAAGGAAGAGGAAAGAACCAGAAGGGGAAGACCGEGAA G G GAAA A A GAAACAAACAGGGAAGGGGAGACGGAAAACAAAA $A G G G G A A G A G A A G G A G G G G G G G A G G G G G G G A A G G A G G G A G A G$ GAGAGGAGGAAGAGACAAAAAAAGGGGGGAAGAAGGGAACAG G GAGACCGGGGAAAAAAGAAGGGGGGGGGGGCAAAGAAACAC CAAGGGGAAGGCCAAAAGGCCAAAAAGAAGAAGCAAGCAAAG GAAAAGGGAGGAGGGGGGAGGAAGGAAAAAGGAAAGGCCGGA A G GAGGAGGAAAAAAAAAACCGGCCGGAAAAAAAAGGGAAAC C A A A A A G A GATGGCCGGAGAGGGAAAAGGAAACCAAA GAA GA G G G G G A A A A G G G G A A G GCCGGAACCAAAAAAGGGGAAGGCC G A G G G G A A A A G G A A G G G G G G A A A A G G GAA A A A A G C CAA A GAA A $A G G G G A A G G A A A A A G A G A G C A G A G G C C G A A A A A G A G A G G G A G$

AAGCCCAAGGGAAAAAAAAGGAAGAAGGACAAGGGGGGAAAG A A GACGGGGGAAGACAGGGAAAAAAAAGGACAAAGAAAAAAA ACACAGGGGAAAAAAAAAGGAGGATGGAGAACCGGGGAAAAG GAAAAAAAGGGAAAGAAAGAAAAGGGAAAAAAGCCGAAAGGA GAAGGGAAAAGAAAACAGGCCAAGGGGGGGGAAAGAAGGCCA $A C C C C A A G C G G G A A A A A C A A G A A A A G A G G G G A G A A A A C C G G A$ C G GCCAAAAGGGGGGAAGGGGGGAGGAAGAAAAGGGAGAAGA A A G G G G G A A A A A A A GA $A \operatorname{AGGGGGAAAGAAAGGGGGGGGGGTTA}$ ACCGAAAAAAAACGGGGAAGGGGAGAAGGAAAACCAAACAAG GCCAGGGGGAGAGAGAAAAAAGAAGAAAACATAAGGAAAAAA G GAA A GAAAAGAACCGGAAGGCCGGAAAAGGAAGAAGGAAAA A G G A C G A A G G G A G A A A A A A A A G G C C G G G G A A A G A G GACA G G A ACCAAAAACAATTGGAAGGGGGGCCCAGGGGACCCAACAAAG GAACGAGGAAAGGAAGGGGAAGCAAGGAAGATTCCGAAAGAA A A A A A A A G GAGAGGGCAAAGGGGACGGAAAAAAGAGGGAAAC $C \subset C A A A A G A A C A G G G G G A A A G C C A A G A A A A A A A G G A G G G G G A$ A A A G G G G G G G G A A GAGGGGAACAAAAACAAGGGAAGGCAGAG A GAGAGAGGGAGAGGGGAACCAAGGCCAAAAAAAAGGGAAAC $C G G A A G G G G A A G G G G A A G G G G A A A A G G G G G G G G G G G A A A A A G$ G G GAAAAAACCAAAAGGGGAAAACCAAAAAAAACCCCAGAAA AAACCAAGGCCAAAGCCCCAGGGAACCAACCCCGGGGAAGGG A A A G A G G G G G G G A G G G G G G G G G G T T G A G G G G A A G G C A G G A A A
 C G G G G A A A A G G A A A $\mathcal{A} G G G G A A A A G A G G G G G A G G C A A A A G A G G$ $A C C G G C C G G A A A A A A C C C C G G G G G G T A G G A G A G G B A A A A G G G$
 AAAGGCCAGAAGGGGAAGAGAAGGGGGAAACGGCAGGAAAAG GAGAGCCCGGAAAATGAGGAAAGAAGGGGGGAAGAAGAAGAG A A GAGACAGAAGGGGAAGGGGAAAGGAAAAGGGA GAGAAGAG GAAAAGGGGGAAAGGAAGGGGAGCCAAGGGAAAAGAGGACCB G G GCAACAGGGAAGGAAAGAAACAAGGGGAAGAGAACAAGAA GAAGGAAGGGGAAAGCCAGCCGGACAAAGAGAGAGACGAAGG A A A G A C A G A G G G G G G G G G G G G A A G G A G G G G G G G A $\mathcal{A} C C G G G G G$ G G G G G G G A A A A A C G G G G A A G G G G A A A A G G A A G G G A C C G G G G G G G G G A A C G A C A G G G G G C A G A A A C A A A A A G C C G A G G G G G G G G G GAAGGAACCGGAACCGGGGTAAAAACCGGGGGAGGAAGACCA A GAGGCCGGAGAAACCAGAAGGAGGAAAAGGCAGAAGAGAGG A GAAACAGAAAGGGAAGGAAGCACAGAAAGGACGAGGGAGAA G G GCCGACCAACGGACAGAAAGAGAGAGAAAAACCGGAGGAA
 GAAATGGCCGGGGGGAAAAGAAGCCAGGGAAGGAAAAAAAAG A G G G G G GAA A A GAGGAACCAGGGACAAGGAAAGAAAAAACAC
 A A A A A A ACCAA GAAAAAAGAAAAAGGGGGGGAAA GAGAAACA A G G G G G G A C A G G G A A G GAAAC G GAGAGAGCCGAGACCAAAA G G G G A A A A A A G G G G G GCAA GAGAACGCCAACCAAGGAGC G G GA GAGACGACAGAAAAGGAAAGGAAAGAGGGACATCCGGAAAAA A A A G G G G G GAAAAAAAAAAAAAAGAGGACCGGAGGAAGGGAGA A G G G GCACCAAGGGGGGAAAAGGGAAAGAGAAGAAAGGGGAG G G G G A A A A A A G A C A CAA A GAACCGAGGGGGGAAAGGAGAGAA
 AA GAGACACAGAGAGCACCAGAGAAGGGGAAAGACGAAAAAG GAGACAGGAAGGAACAGAGAGACGAGGGGAAGGGGAAGACAA A G G G GAA $\operatorname{G}$ GAA $A \operatorname{GGGAAAAAAACCAAGGGGAAAAGGAAGGGGA}$ $A G G A A G G G G A A A A G G A A G G A A G G G G A A A A A A A G G A G G G A G A A$ A A A G A A A G A A A C C G A C A A G G G G G G G G A C C A GA G A G A G G A G G G GAACCAGAAGGGGAGAGAGACGGGGAAGAAGAGAGGAGAGAG
 G G G G GAACAGGAGAAGAAAGGAAGGAAGGAGAAGAAGGAGGA

GAAAAAGAAAAAGGGACAAAGAAGGGAGGGGAAGGAAGAAGG A G G G G A A G A GA GAAAAACCGGGAGGACGAAGAGGGGGAAAAG A GACCGGAGCAGGCAAGAAAAAAGAGGGGGAGGAGAAAAGGA A G GCCGGGGAAAAAGGGAAAGGGAGAAAAGGGGGAGAAAAAG GAAAAGAGGAAGAGGAGCACCGGGGACGGAAAAAAGGGAABA G G G G A A G A A A G G A A A G G G G C C G G A G G A A G A A A A G A A A A G A A A GAACAGGGAGGAGGAGGGAAAGGCAGGGAGGACCAAAAGACA AAAAGAGCCGAGGGGAAAAGAACAGAAGGAAGGGGAGAAAAC C G A G G G A A A A G A A G G G A G G A A G G A A A GAA $A$ A A G A G G A A A A A G G G G G G G GAAAGGAGGAAGAAACGGCCCAAAAAGAGGAAAACAG GAAGGGGCAAAAAAGAAAGGGGGAGCCGAAGAAGAGAGGGGC C G G G G A A A A A C G G A A C CA $\mathcal{A} G G A C G A C C G A G G G G G G A A G G G G G$ GAAAGAAGAAGAAGGCCAAAAAGAAAGCGGGAGAAAGAGAAG AGGAAGAGAAAATGAGGAAGGAAGAAGAGAAGAGAGAACGAA GACGAGGAAGGAAACGGAGCCGAAAGGGGAAAAGGAAGAAAA A G G G G A A A GAC GAACAGGGCCGGCCGGGGACAGAAAAAGGAG G G G A G G G T T G G A GC C G G A G G A C C A A A A C C G G A A A C A A G G G G C A G GAA A A A A G GAA $A \operatorname{A} \operatorname{A} A G A C G A A G A G A C G A A G C A A G A G A C A G A$ $G G A A G G A C C G A G G A G G A A G G A A C G A A A A A C C A A G A G G C A G A G$ A G G G G A A G G A A G G G A A A A A A A A G G G G G A A G A GA $A$ A A A G G A A G G A G GAGGGGGGAGGAGGCCGGGGAAGGGGAACCGGAAAACCGGG

 C GAGGCCGGAAGAGGCCGAGGCCACGGGGGAAGGGAGAGGGG A G GAACCGGACGAGAAGAAGGAGAGGGGAGAGACCCCAAAAC A A G G G A G A G A G G G A G G G A G G A A G G GAAC CAAAAA A A A A G G G G A AACGGAAAGAAGGGGCCGAGGCAGAGGAAAAAAGGGGGGAGC C A A A A A A A A G G A A A A G G G G A A A A G GAAA A A A A A G G GA GA $A$ A $G$ A A A A A G GAGCACCAGGGAAGGGGGACCAGGAAAGGCCAAGAA GAAGAGGCAAAGAAGAGACAGGAAGGGCCGGAAAGGAAGAGA
 ACAGGGGGGGGGGAAGGGGAGGGAAGGGGGGGGAGAAACGAG GAAAATTGGAGTTAAGGAAGGAAAAAAGAGGGGAGGGGAAGG G G GAA A G A A A A A A A A A A G G G G G G G GAAAA A G C C C C G GAAAA C C C C A A A A G GAAAC G GAAAAAGCCGGAGAAGAAGAAAGGAACA A A A A A GA G A A A G GCCGAGAAAAGGAAAGGAGAAACAABAAAA A GAGGGAAAGGGGAGGAGAGAGGAAGGGGAGAGGGAAAAGAC $C G A C A C A C C A A G G G G A A G G A A G G C A G C A G G G G G A G A A G A G G G$ A GAGGAAAGAAGAGAAAGGAAAAAAAAGGGGCCGGGGCCGGG A G G G G A G A GAA A G C C G G A G A A A A A G GAGAGAAA A A G GAA A A G GAAAGAAAAAACACAGGCCCCAAGGGGAAAAAAGGAAAAAAG GAAAAGGAAAAAAAGAACAGGAAAAGAGACAGGCCGGGAAGA TGGAAGAAGAGAAAAAGAAGGAGGGCCAAGGGGAAGG
$C \subset G G G G A A G G A A C A C A A G G G A G G G A A A A A A G G G A A C C A G G G$ GAACCCCAAAGAACCAGGGAAGGGGAAGGAAGGGBAGGGGGG
 TCAGGAAGAGAAAGAGCAAAAGACAGAAGGACCAGGAGAGAG GAACAGAAGAGAGGAAAGAAAGAAAGGCAAAAAAAAAAGCCA AAAAAGGGGGGAAGGAAAAAAAAGGGGGGAACCAAAAGGCCA A A A A A G G A A A A A A G GAAAA A GAAGGAAAAAAGGAAG GAAAAA ATTGGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC C G G G G A A G G G G G G A A A A $\operatorname{A} G A A G G C C G G G G G G A A G G A A G G G G G$ G G G G G G G G A A G A C G A A GAGGGAAAGGGAACCGGGGAAAAAAA AAAGGGGGGAAAAAAGGCCGGAAGAAAGGCCGGGGAGAGGAG
 A G G G G A A G G G G G G G A A G GAC C G A A A A G G G A GAA A A G G G A A A C CAAAGAAGGAAAAGGAAGAAAAAAAAAAAGAAACCCGGAGGG ACAAGACCCAAAAAAAGAACCGGAAGGGGAAAGAGAAAAAAG $G C C G G A A C C A G G G G A C A A A A A A G G G A G A G A G C C G G G G G G G G C$

CAAGGGGGGAAAAGGAAGGGGAAAAGGCCAAAAAAAAGAAAA $A C C G G A A A A G G A A A A G G G G G G A A C C A A C C A G A G G G G G G A A A G$ GAAGGGAAAGAGGGGGAAGACGGCCGACAGGAAAAGGAACCC AGGACAAGAGGGAAGGAGGAAGGGACCAGAACCAGGAGAAAC $C \subset A A A C C G G A A A C C A G G A A G G A A A A A G G G G G C C A A G B A A C C G$ GAAAAGGCCGGCCCCCCAAAAGGGGGGAAGGAAAAAAAAAAA A A A A A A A G G G GCCAA G GCCAAAGGAAAAAAGGAAGGAAAAGAA ACCAAAAAAAAGGAAAAGGAAGGAAGGGGGGAAAAAAAAAAA A G G A A $\mathcal{A} G A A A A G G A A G G G G G G A A G G G G A A A A G G G G A A A A A A A$ $A C C T T G G A A A A G G G G A A G G G G G G C C A A A A G G A A C C C C G A A A G$ GAAAAGGAACCCCGGGGGGAAAAAAGGGGAAAGGGAAAGAGG G G GCCCCCAGAAAGGAGCAGAAACCAGAACCAAAGGAGGGGA A G G A A A G A GAGAGGAAGGGAAAAAGCAAGAGCAAAAAAAAAA AAAGGGGAAAAAGAGAGCAGGGAAAACGGAGAGAGAGGACCB A A GAAAAGGAAGGGGAGAGAGGACCAGAAAAGGAAGGGAAAA
 GAAA $A$ A A $A \operatorname{GCCA} A G G A A A A G G T T G G A A G G G G G A G A C A G A G G G$ G GAGAAAGGAGAAGGGAAAGGGGCCGGAACCAAGAAAAGGGA A A A G G A A A A G G A A G GAAAAAAAAAGGGGGGGGGAGGAAGAGA A A A A A G G A A G A C C G GA $A \operatorname{A} A G G G G A G A G G A A A A G G G G G A A A G G G$ G GAA A A C G G G GCCA GAGAATAAAAAGGAAGGAGGGAGAAAA G
 GAAGGGGGAAACCCCGAGGAAAAGGGAAGGGAAGGGAGGGGA A A A A A A G A A A G A G A A TACCGGTTAGACCCAGGGGAAGAAAAA A A C G A GAAAG $A$ A A A GAAGCCAAAAGGAAGGGGGGGAGACAAAA G G G GAGAAAAGAGAGAGGAGGAAAAAGAGAGAGGGGAGGCCG GAAGACCGGGGAAGAGGGGCAGAAGAAAAAGGAACAACAAAC C G G A G G G A A G G A A A A C CAAA A A A A A GGGAAAGGTTAAAAC C T TAAG GAAAGAAAACCCCGGAGGAGGCAGGTTAAAAAACCGGA A G GAAAAGGCCGGAAAAACCACCAAACAGAGAGCAAAGGGGG A G A G A G G G G A G G A G A G A G G A A G G A GAA A G G G A A A A G G A A A A G GCGGGAAGGAAGGAAAGGAGCATAGGCAAGGGACAAAAAGA GAAAGAGACAAAACCGACCAGGGAAGGAGAAACGGGGGGGAA C G G A G C A A G G G G G A A A G G G GAGAGAGGAAAAAAAA G A A A G G G A GACAAGCGGAGGGAAAAGGGGAACACGCCGAAAGGAAAAAAA GAAGGGGCAGGAAAGGAGGCAACAGGAGGGGATGGGAAGGGA G G GAAAAGGAAAAAGAGAGACACAAGGCAGAAGAGCAAAGGA G G G GAAAAAAAGGAAGGAGGGTAAAGAGGGACCGCGACAGAA A A A A C A A A G G A G G A A C CAA A G G G A G G G C C G G C C C C G G A A C A G C GACAACGAGGGGAAGCAAGGAAAAAAAAAGGAGGAGAGAGC G GACAGGGGAACAAAAAAAGGAACCGGAAGGAAGGGGCAAAC C C C C C G G A A A A GACCCGCGAAGGCCGGCCAAAGGAAGAAA GA ACCAAGGGGAAAGAAGGCAGGGGAAAAGGAAGGGGGGAAACC C GAG G A A A A G G A C A G A G G A G G G G A G G G A A G G G G A A A G A G G G G G G G A G A G A A G A A A G G G A G G G A A A G G A A GAGGGGGGA GAAAA $\mathcal{A}$ A ACAAAAAAAAAGAAAAAAGAAGGGGGAAGGCAGGAAGAABAA A G G G G A A G G A A G G G G A G A G A G A A A G C C G G T T G G G G C C G G G G A A GAGGGGGGAAGGATAAAGAAAGAAGGGGAGACAAAGGGGAA AAAGGAAGAGAAAGAAAGAGGGAAGGGAAAAAGAAGAAGGAA A G G A A A G A GCCAA G GACAGAAAGGAGAAAGGGGACGGGGGGA C CAGGGAGGCAGGGAAGCAAAAAAAAAGAAACCAAGGGAAGG GAGAAGGGGGGGGGAGGCCGACCGGGGAAGGAGAACAAAAGA GACCCGGAAGAAGAAAAAACCAGGGAAGGGGCAAGACAAGAA AAACCGGAAACAAGGAAAACCCAGCAGAAAAAGAAGAGCACA C G A A G A A A A A A A A G G G G A G G A G G G A A C G A G A G GC CA G A A A G G G GAGGCCAAGGAGAGGAGGGGGGGGGGAGGAGGAAAGAAAAA A G G G A G G A A G G A G G GAGGGAAAAAGAAAGGAAAGGAGGAA G G GAAACAGAGAAGGAAAAAAGGCAAGCAGAGGGGGGAAAAAAG G GAA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} A A C \subset A A A C A G A A A A G G A G C A G G G G A A G G A A A C B$

G G GAGGGAAAGGGAAAGAAGGCAGAGGGAAGGAAAGGAACCC C G G A G G A G G G G G G A A G G G G G G G G G G G G A G C A C C G G A A C C A G G GCCGGCCAAAAGAGACCGGAGGGAAGAAGCCAAGGGAAGAAA AAAAGAAACAGAAAGAAAACCGGAAGGACGGGAAAGAGAAAA AAACCAAGGGGGGGAGGAAGGAAGGGGGAAGAAGGGAAAAGA A G G GAGGGGCCAAGACCAAGGGGAAGAAACCAAGGGGGGGGA A G G G G A A G G G G A G A C G G A G G A A G G G A A A G A G G G A C G G G G G G C A G G GACAAAAAAAGGCGAAAAGGAAGGGGCCGGAAAAGGGGC CAACC $A \operatorname{CGGGGGGGACGGGAGAAGGGAGGGGAGGAA} G G G G G G G$ G G GAGAGAAAACAAGCCGAGGAAGGGGCCAAAAGATTGAAGA
 $G G A A A A A G G A A G G A G G A G G A A G G G A G G A A G G G A G A C C G A G A A$ G G G A A C C G G A A G GCCAA A A G G G GCCAGCCAGGGAGCACAA GA CA $\operatorname{CAAAAAGGAAACAGGGGGGGAAAAAAGAAAGGGGAAAGGAA}$ A G G G GAGGAGAAGAGAAAAACGAAAGGGGGAAAAAAAAAGGA AAAGAAGGGAAGGAAAGGGAAAAAGGGGGGAAAGAAACAAGA G G A A A A CAGAGGGCCAAAGAAATGCAAAAAAAAGGCGAAGAA A A GAA A G A A A A A A G G GAAA A GTTAGGAGGGAAAGGGGAAAAC AAAAGGGGGGAGGAGAGAAAGCGGACACCGAGGAAAAGGGGG GAGAAGGAAGGAGGAAAAACCAAAAAAGGAGAGGGAAGACCA AAAGGAAGGGGCCCCGGGAGGAGAAGAGAGGAAAGCCGAGGC CACCACCAAGGCAAGGAAGCCCCAGAAGAGAGAGACGGAAAG G G G G G A A A G A A C C G G C C C C A A G G G G G A G A G A G G G G G A G G G G G G GAGGGAGAGGGATTGGCCGGAAAGAAAGAAAAAAGAAACAA G GAG $A \operatorname{GCA} C A G G G G T A A G A C C C G A A C A G G G G G G G A A G G A A C A C$ $C G G T T T T G G A A G G G G G G A A G G C C A G G A G G G G C A A A A C A G A A G$ ACCGGGAGACCGAGGGGAAGGAAAAAACCGGAACCCAAAAAAA A A ACC G G A A A G A GAGAAAGAGGGAAGAGGGGCACCAAGAGAG A GAGGAAAACGAAAAGGAGAGAAGGAGGGAGAACCGGAAGAG G G G G G GAGACCAAAGAGACAATAGAGGAGAAAAAAGAAGGAA GAGAGAAAAAGTAGGAGGGGGAAGAAAGGGAAGGAAAAAGAG A G GAGAGGGAGGGCCAGGGGAAGAAAGAAGAAAAAACGGAGG A G G G A A G A A A C A C G G G G G G G G A A A GAGGGGGGGGGAAAAAA $\mathcal{A}$ GAACAAAGGGGGACCGGAGAACACAAGGAGGGAGGAACAAAA G G G G G G G G G A G A G A A G G A G G G A A A A GAGAAGAAGGC GAA A A A
 AAAGGGGAGGGAAAAGAGGGGGGAAGGAAAAAAAAAAAAAAA G G GCCAGAAGGGGAGGAGGTTAACCAAGGACGGAGACAGAGC A A A G G A A A A A G G A G G G G G G G A G A G G G G G G G G C C A G C C G A A G G G G GA GAACAGAGGCAAAAAAGGGCCAAAAAAAGGGAAAAAAG GAAAAGGAAGGAAGAGAAAAAAAAAGGAAAAAAGGAAGAGAA G G G G G A G A G G G A A G G A A GAAAAGGGAGAAAAGGCAGACCCCA AAACCGGAAGGCCCCAAAAAAAACCAAAGGAAAAAGG
G G G G A A A A G A G G G G G G G A G G C C C A GAAA A A A C G G A A A A G G C C G GAA A A CAGACCGGGGAAAGACAGAAAAGGAAGGAAAAGAA
 ACAA C G G G A A G G A G A G G T T A A A A A A A GAC G G G G A G G A A A G G G GAACCGGGGAAAACCAAGAGGGGAAAACACGAAGGAAAATTG G G GAAGGGGACAGAACCAAAGCCGGACAAAAGGGAAAGAAAA A A G G G G GCAGAAAGAGGGGAAGAGAAGGAGGGGCCGGGAAAG G GAA A A GAAAAAAAGGGAAAGATGGAAGGGGAGAAAAAGAAA A A GAAAAAAGGGGCAAAGGGAGGAGCAGGGGGACAAAAAAAG G G G A A A A A G C A A G A G G G G G GAGGAAAAAAGAAACCAAG G G GA AGACACCGGGAGGAGAAAAAGAAGGGGCCAAGGAGAGAGGAA A G A A A A G A A A A G G A A G A A A A GCCGGAAAAGAGAA GCGACA GA G G GAAAAGGAGGGGGAGCAACGGGGAAGGACAACCAGACGGG $G G A A A G G G G C C G A A G G G G G G G T T G A C G A A G G C A A A A A C A A A G$ GAGGGAAGAGGAGAGCAGAAGAGAAAGAAGGGAAAAACAAAA $A G G C A G G A A A G G G G G A G C A G G G A G G G A C A A G C A G G G C G G G G G$

GACCCAAGGGGGGCCGGGGAAGGAAAGAGGAGGAACAGAACG GAAAAAACCAAGGGGCAAAGGGGCAGAAAAAGGAGAAGATTA A GAG $A \operatorname{GAGCCGAGGGGGCGGGGGGCCAGCAAGGAGAGGAACAA}$ GAAAAAGAGGGGAGAGGGGAGAGAAGCGGAAAAGGAGAGGGA A G G G G A A A A A A A A A GAAGCAAGGCACACAAGGGGGAAAAGAA A G GAAAAGGGGACGGAATTGAAAAAAAAAGGGAACAAAAAAA A A A A A A A G GAGGGCAGAGGGAAAGGCCAAAAAAAAGGCCCCG GAAAACCGGGGACAAGAGGAAGCCCAAAACCGGCCCCGGGGG G G G A A G G C C A A G G A A G G G G C C A A G G A A G G G GAAAAAAAAA A G C CAAAAGGAAAAGACCGGGAAAGGGAGAGGCCGGGGGGCACAA GCCGGGGAAAGAGAAGAGGACAAGGGAACAAGGGGAGAGABA A G GAA $A \operatorname{G} G A A C A C G A A C G G A A G G A A G G G G A A A A G G G G A A G G G$ GAAGACAAAGGGGAGAAAGCCAAGAGAGGAGAATAGGGAAAA GCAAAGGAAAAGACCGAAAGAGCGGGGAAGAAGGAAAGAAGC CAGAGAGGCGGGGAAAAGGGGAAATAAGAAGAAGGAGAACAC GAGGAGGAAAAAAGAACGGGGGGGGGGCCAACCAAGAAAAAA A A GCAA $\mathcal{A} A G G G A G C A G G G A A A A A A G G G A A A A G G A G G G G G A G T$ TAAG $A$ A A $A \operatorname{GA} A A G G G G G G A G G A A A G A A A G G G A C A A A A A A A G A$ A G G G G A A A A A A G G A A G GAGGGGGAAAAAAGGAAGGAAGAGAA A A A C C C C G A G GAGAGGAAAAACCAAGGCCGAGGTTAAAAAAA A A A A A A G GAGGAAAAAAAAAGGACAGGGAGGGGAAGGGBAAA GAGACGGGGCCCAGAAAAAGGAGAGACAGGGAGAAGGCAGAA G G G G G G G G G G G C A G C G A A A A A A A C A G G G G G A A A A A G G A A G G A A G G A A G G G GAGGGGAAAAGCAGGGAGGAACACCGBACAGAGG A GAGAAAAAAAAAGGCCGGCCAAAAGGGAGAAGGAGAAGAGA CA $A \subset A A A A C G G A G G G A A A A G G G G A C A G G G G A A G G G A A G G G G A$ G G GA $\operatorname{G} A C G G G G A G A A G G A G G G C A A G A G A A A A A A G G A A A G G G A$ A G G G G A G A A A C A A A A A A A A GAGGGGGGCCAAC GAGAGGGGGA G G G G G G G C A A A A A A G GAGGCCAAGGAAGGGAAGAAAAAAAAA A G G G GAAGGCCACAAAAAAGGGGAACCGACCGGGGAAAGGAG
 AAAGGAAAAAGAAAGGGGGGGAAGGCAAGAATTAAGAGAACA G G GAGAAGGAAGAGGGACCAAGGAGAAGGGGAGAAGGACGAA $A G G A G C C A A A A G G A A G G A A A A G G G G G G C A G A G A A A G G B A G A A$ GAGACGAAGAGGGAAGGAGGAGGAGACGGGGACGAGGAAAAG A G G A A G G A A GAGGGGGGCAAGAGAGAAGAAAAG
 CAAAAAACCCCCCGAGGGGAGCAGGAAGGGAGGCCAACAAGAA $A C C G A G A A G G G G A A A G G A A C C G G G G G A A G A C G G G G C C A G G G G$
 ACAAAGGAAGGAAAGCCAGAGCCGGAGGAGAAAAAGGGAGAA $A C C A A C C G G C C A A A G A A G A A G G G A A A A A G G G G G A C G G C C G B A$ A G G G G G G G G A G G G G G G G G G G G G G A A G G G G C C G A A T A G G A A G G A G G G A GAGGGACCAGAAAAAAAGAACCGGGGGGAAGAAAGAA A A A A A A A A A A G G G G G G GAA A G G G A A G G A A G G A C G G A A A G G G A GCAGAGGAACCGAAAGAGAAAGGAAGGGGCCAACCGGABAAB G GAGGAACCGGCAACCCAGGGAAGGGGTTGGAAGAAGATAAG GAAGGGGAAGGAACCAAGGAAAAAAAATTCCGGGGCCAGGGA AAAGGAAGGAAGGAAGGAAAAAAGAAAAAGGCAAAACAAAAG A A GAAA A A A A GAAAGGGCAAAAGGGACGGAAGGAAAACCGBA AAAGAACGAACAGCCGGCAGGAAAACAGGAAAAAAGGAGGGG GAGAAGAGGGAAACCAAAAGGGGGAAGCCGGAAGGAAAAAAG G G G G G G G C A A G A A G A G GAGAGGACCAAAACCGGGGAAGACAA A GAGGGGGGAACCGCGGGGGGAGAGGAGGGGAGAAGAAAAAA A A A GAGACAGGAAGGGGCCAAGGGAAGGGCCGGTTGGGAAAA G G G A A A A A CAAAAAAAAGAGGAGGAAATAAGCCAAAAGAAGG G GCGAAAGGGAAACCCCGAGGAAAGGACCAGAGAAGGABCAA GACAAGGCCGGAACAAAGGAAAAGGAAACGGGGAAAAAAAAA A G GAAAGAAAAGGGGCGAAAAGGGGAAGGAAGAGGGGAAAAC

CAAGGAAAAGAGGGGCCAAAAGGAACCAAAAAACCGGAAGGA A GCGAGAAAGGGGGAAGAGAAACAGGGAAGGAAGGAAAAAAA CAAAGAAAGAAAAGGAAGGAGCAAAACGAGACAAAAAGAAAG GAAGGGGGGAAAACCGGGAAAAGGGCCAGAAAACCAAAGAAA G GAAAAGGGAACCGGGGAAAACCGGACGGAGGAGGAAGGGGA A G G G G A GAGAAAGAGAACCAGAAACCAAGAGGAGAAGAAAAA AAACCGCCAAAAAAAAGGAGGGGAGGACCAAGAAAAAAAGEG $G C A G A A A G G A A G A C C A A G G A G G G A G G A A A G G A A A G G G A G G G A$ A G G G G G G A A A GCCAAAAAAAGGAAGGGGGGGAAAGGACGAAGA GAAAAAAAAAAAAGGGGAAAACCGGAGGGCCAAGGAAAAAAA A G G A A A A A A A A T TA A G GCAAGGGGGAATTGGCAAAGGAAAAA

 $G G A C G A A C C G G C C A A G G G G C C G G G G A A G G A A G G C C G G A C A A A$ A GAACCCAACCAAAAAGGGGAGGAAAAGGAAAGAGGGAACAA A G G G G G G T TAA A G G G G GAAAAGGAAGGAAAAAGAAAAAAAAA GAATTGAGGGAAGAGGGGGAAGGAAGGAACAGGAGEAGGGGG GAGGGAGAAGGAAAAAAGGAAAAAAAGAAACGGGCAAGAAAA G G G G G G G A GAGGGGGGACC G GAAAGAAAGAAGAAAGGGACCC C G G G A A G A GAACC G G G G A C G A A A G A A GAGAGGGGGTAA G G G C AAGACCAGGGAGGAAACCAGGAAGGAAACAAGGGGGGGGGAA A GACCGGAGAGAGAAAAAGAAAACCAAGGGGCCCCGAGAAAG AAAGGGGTTAAGAAGGGCCGGGGAACCAAAAAAGGCCAAAAA A $G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G G A G A A A A A C G G G G A A A A A A C A A G G$
 A A A A A A A A A G GCC $C$ G G G G G G G G G G A A G G A A CA A A A C A A G A G G G A A G GAGAA $A \operatorname{AGGGGGGACGAGGAGGGGGGAAGAAAGACGAAGG}$ A G G A A A A A GAACCGGAAGGAAACGGAGGGCAGAACAGGAABAA G G GCAA GCCAAAGAAGAAGGAAAAAGAGACAAGGAGAACGBA A G G G G A A A ACAAAACGACCGGGGGGCCCCAAAAGGCCAAAAG GAAGGGAAAAACCGGCCGAAAAAAAAAAAAAGGAACCAAAAG GAAGGAAGGAAAAGGAAGACCAAGGGGAAGGGAGAGGAACCG G G GAACAGAAACCAAGGAACCAAGACCCCGGCCGAGGAGAGA $G G A G A A A A A A A A A G G C A A G G G C C G G A A A G G A A A G A G A A A A G G$ GAAAGAGCCAACCACGGAAGGAGGAAAGGGAGGGAAAGAGAA G G G GAGAAAAAAGAAGGAAGAGCAGAAGGAGAAAAAGCCGGG A A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCG G GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAAGA
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 G G G G G GAAAGGACAACCGAGGGAACCACAGGAACCCCBACCA GAAGGAAAGAAAGGGAGAGAAGGAAGGAAAAGGAA GAAAGAG GAAAGGACCGGAGGAAGGGAGAGAGGGGGGAAGCCAGGAGAA A G G G GCAGGGAAAAAATAGAACAGGAGGGAAGGAGGGAAAGC CAA $A$ AACAAAA $A \operatorname{A} A A A A A A A A C A A G G A A G G G G G G A G A G G A A G G$ GCCAAGGAAGCAAAAAGGAGGGGAAAAGAAGAAGGGAGAGAA AGGAAGGCCAAGGCCCCGGAGAGGGAAAAGGAAAAAAGAAAC C A A A A A A A GAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGGC $C \subset A G G G G G A A A G G A G A A G G G G A A G G G G C C A G A A A A A G A G G G G$ GAAGGGGAACCTTGGCCCCGGGACCAACAGACAAGEAAATAA G GAA $A \operatorname{GAA} A G G A A G G A A A G G G G G G G A A A A G G G G C C G G C G G G G$ $G C A A A C C G G A G G G A G G G G A A G G A A G A G A A G G A A A A G G C A G G G$ GAGCGGGAGAGAAGGAGTTGAAGAAGGGGAAGGAAAACAAAA A A A GAAGAAAGAACAGAGAGGCCGGGCAGAAAGGACAAGAAG GCAGGGGGAAAAAAGAACCGGAAGGCCACGAGAGGACAAAAAA A G G GAAACCAAAGGAGACAGGAAAGGAGATAAAAAAAAGGCG AACGGAGCCAAACAAAAGGCCGAGGGGACAGGGAAGAAAAGC A A A A A A A A GAAGGCCGAGAGGAGAACCCCCCAAACCCCCGBA A A G A A C A A A G G T T G A G G G G C C G G C A GAGGAAAA GAAAAAAA G GCCAAAAGAAGGAAGAGAAAGAAAAGGCCAAGGAGAAGAGGA AAAGGGAGGAAGAAAAAAAAGAAAGCCAGGGAAAAAGAGAGA ACAGAAAAAAGAGAGAAAAACCCAGAAAAGGAAAAAAGAAGA A G G A A A A G A A A A A A A A G G G A A A A A A G G GAGACAAA A A A A A A A A G A A G A A G A A A A A G G G G A G G G A A G G A A G G A C G G G G A G G G A A A GACAGAAGGGACCCCGGGGAAAGAAAAAACAAGGGACAAGGA G G G G G A A G GAC A G G G GAAAAAAGGGAGAAAGGAGAAAAAAGAC AAAAGCCCCGGAAGGGGCCAGGAAGCCGGGAAAGGGGCAGGG GCAGGACAAGGAAGGAACAGAGGAAAAAACAGGCAAGAGAAA G GAACAGAGGGAGACAAGGGGAAGAAGACGAAGACBAGAGAA A A G A A C C A A G G G G C C G G A G G G A GAAAAA A G G G A A GAA A A A G G GACGGGGAGGGGGAAAAGGTAAGGAAAAAGGGGAAGAGGGGG G GAGAGGGAGGAAAGAGGGAGGACAGAAGAAAAAAGAAAGGG G G G G G G G A G G A G G A A G GACAGGGCCAGAAGAAAGGGGCAGAA A A G A A A G G A A G G A G A G G A A A A G G G G T T A A G G C C G A GA G A GAA
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 G G G GAACA $A$ AAAAAAAAAGGGGGGAAAAGGGAGGGGGAGAAGAG GAAAAAGAGGGGGAAAAAAAAGGAGCAAGCCAAGGGGCCGGT TAAAGGGCCGGGGGACCGGAACCGGGGCCCCAACCAAGGTTT T G G A A A A G G A A A A A A G G A A G G G G G G C C C C A A A A A A G G G G G G A A G G G G A A A A G G G GAAAAAAAAAAAAAGGGGAAAAGGCCAGAA G G G G G G A A A A A A G GCCAACCAAGGGGGGAAGGAAGGGAAA G GA $A G G G G C C A A G G T T G G G G G G A A G G C C G G G G G G A A A A G G G G G G A$ AGGCCCCAAAAGGGGCCGGGGAAAACCAAAAGGTTGGAAGAA A G GAAAAAAGGAACCAAAAGGGGGGAAAAAAGGGGAAGGGGA A G G A A G G G GCCGGGGGGGGAAAACCCCCCAAAATTGGAAGAA
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 CAAA $A$ A $A$ A A G G G GCCAAGGAAAAGGAGGAAAAGATCCAGAC G G G G G G A A A G A C G G A A G G G G GAA A G G G A A A G G G G A A G A G G A G A C G G A A G G A G T A A A G A A G A A A A A A G G G G A C C A G A A A A T G G G G A AAAGGAAAGAAGGGGAAAAAGAAGGGGGGCGAGCCTTGAGGG G G GAGAGAAGGAAGGCCGGAAGGCCGGAACCGGGGAAGAAAA A A A G G G G C C G G G G A A A A A A A A A A G G A A TTCCAA G GAACAAAA

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 C G G G G G GCCGGAAAGCACC GAGAGGAACCGAGAAA GGGGGGA A G G G G GACAGACCCCGGAAAGAGAGGAAAGAACATAAAACAA A G GAGAGCCGAGGTAGAAAGGAAGGGAGGGGAAAAGGGAAAG
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 A G G G G A A G G G G G GCCGGAAAAAGAGCCAAAAGGAACCAAAGG GAGGGCAGAAGGGACGAAAAAAAGAAACAAAAGCAAAAGAAA A GAGAAAAGGGAGGGGGGGAAGGAGGGGAGAGAGGCCAAAAG $A G G G G G A G G A A G G G G A A G G G G A G A A G G G G A A A A G A G G A A A A G$ G GAAGGAGGCCAGGGGGAAGAAAAAAGAAGAGAAGGACAAGA GAGGAGAGGGGGGAGGGAGGAGATTAAAGACAAAGGGGGGGG GAACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGAAAGAG AAGAGCCAACAACAGAAGGGGCAGGAAGAGACACCBAAGGAA
 GAGCAGGGGGGGGGAAGAAGGGGGGGGAAAGGGCCAAAGGAC

A A GCAA $A \operatorname{A} G A G G A G G A A G G A A G G G G G G G G A A A A C C G A A A A G B$

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 $C G G G G G G G G C C G A A C A G C A A A G G G G A A C C A G A G G G G G G G G G G$

GCACACGAAAAAAAAGGAAGGAGGGGAGGACGAGGGGCCCCG G GAGGGAAGCCCCAGGGGGAAAGGAGGGGAAAGCAAAGGGGA A G G G GCC G GAC G G G G G GAG GACCGGCCAGACGAAGGGGAAC G G G G G G G G G GAA $A \operatorname{GA} A \mathrm{~A} A C C G G A G A A G G A A A C A G G G A C G G A G A$ A G G G G GAA $A \operatorname{GGA} A A C A G A A G G A A A C A A G G A G G G A G G G A G G G G$ GAAGGGGAAGAAAAGAAAAAAAAGAGGGGAAAAACGGGGGGG G G GAA $\operatorname{A}$ GACAGGAAAACGAAAGAGAAAAAGAGAGAAGGAAGG $G C C G A G A G G G G G A C C G A G A A G A G G G A A A A G A G G A G A G G G G G A$ A G G A G G G A G T T A G A GAAAGGGAGAACCAAAAGGGGCAGACAA A G GAAAGGGGGAAGGAAAAAAGGAGAGCAAGAGAAAAGGGGA
 A A G G G GAACAGAAGGAAAGGGAAGGAGAGGAAGGAAGAGGGT
 T G G C A G A A A G G G A G G A A A A G G G G G G A A A A A G G G A A GACAAAC $C G G G G A G G A G A G A G G A G A A C C A A G G C C A A G A G G A G G A A A A A G$ AAACCGGAAGGGGAAGGAGCAAAAAAAAAAAAGAAGGCCGAA $A C C A G A G C A G G A G A A G A A A G A A A G G G G G A G G G A A A C C G G G G A$ G G G G G A A A C A A A ACCAAAAGGAAGGCCGGCAGGAAAAAGTAA CAGAGAAAGAAGGAAAACCAGGGGAAAGGCCACAAGGGAGGA A G G G G G G A A A A G G A A A GAGAGGGAAAAACCCAAAAAAGGGGA GCCGGAAAAAAGGAAAAAAGAGGGGACAAGGAGAAGAAAAGG ATAAAGAAACAAACGGGGGGGCAGGGAGACCAGAAAAGGGGG GAAGGCAGGCCAAAACCAAGAACAACAAAAGGAGGGGGAAAG G G G A G G G A A A C A A G A G G A A A A G A A A GACAAGGGGGAGAGCAC A G GCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAAAAA AAAGGAAAAGGCGGGCACCAGAAGGAGGGAAGGGGGGCAAAA GACGAGGGAGACCACGACCCCAAAAGAAGAAAACCAAGAGAA A G A A A A A A A G G G GAGGGACCCCAGAAAGGAGGGAGAAAAAAG G G G A A G G G G G G G G A G A A A A A T G G G G G GAAAAAAAAAA GAAAAA C GAGGGAGGAGGGAATTAAAAAAGGAAAACCGGAGCCACCAA $A C C G G A A G G A A A A G G G G A A A G A G C G G G G G A A A A A A C A G A C C B$ G G GAAAAAGGGGAAGGGAAGGGGGGAGGGCCAGAAGAGAGGA A G G G G G G G G G G A A A A A G G G G G A A A A C C G G G GCCGGAACAAAA AACGAGGACACGGAGGAAAGAGGGGAGGAAGGCGGGGBAABG
 GAGCCAACAAAGGGGCCAAGGGGAATTAAACAACAAAAGCAG GGAAAGGCGCCAGGACCCCCCAAAAAAGGAGAGGGAAAAACA $C \subset C A A C A A A G G A A G A G G A A G G G G A A A A G G G G G G G A A A C A A A A$ ACAGGCCAGAAGAACAGAGACAAGGAAGGCCGGAAAAGAAAA G GAGGCCGGAACCGGGGAAAACCGGGGAGGCAGAAGACAAAA A A A A A A A G G G G A G A G A A A G GAGAGGGAGGAAAAGGATCAAAA A G G G GCCAACCGGGAGGAAAGGAGGAGAAAAGGGGGABAGAA CAGAAAAAAAAGAGAAGCAACAAACGGGGGATTAAGAAAGGC C G G GAA A A GCCAAGGGGCCAAAAGGGAGAACAAAAGAACA GA
 G A A A A A A G A G G A G G G G G G G A A A A A A A A G GAA A G G G G G GAAAA A A G G G G A A G GCCAAAAACAAAACAAACCCGGCCAAGGAAAAAAG G G GAA A A G G GACCACAAAGAAGGGGGGAAAAGGAAAAAAGGG
 A A A A A A ACCGGGGGGAAAAAAGGCCGGGGGACAAGGACAAAG GAAAGGGAAGGGGGGGGCAGAAAGGCAAAGGGGAAAAGGGAA AAACCAGAGGACAAAAAGGCAGGAAGACCCCGGGGAAGCCCG ACAGGCCAACCGGAAGGAGGGGGAGAAACAAAAAAAAGAATA G G GAAAAGGGGAGAAGAGAGGGAAGCAAAGGAAAAGAGAAC G GAAGGCAATAAAAGGGGGGACAAACACAGAGACAGCAAGTAG GA $\operatorname{G} A A A A G G A G C C A G G G A G A A G A G A G G G G A A A A G G A G A A A G A$ A G G G G G A A A A A A G G G A A A A A A G GAGCGGAGAAAA $A$ A A A $\mathcal{A} G G G G G$ A A A A A A G A A GATTGGAACAAAAAGACCGAAGAGGAGAACAAA $G G A A A G G G G A G G G G G C C A G A G G A A G A A G G G A G G G G A A C C G G G$

GAGAGAAAGGGAACAGAAGAAGGGGAAAAACAGAAAGTXGAA

 A A A G G G GAAAGGAGGAAGGGGGGAAGGAGCAGAAAAGAAAAG GAGAAGGGGAAGGAAAAAGGGAGGAGAGAAAGAAAAGAAAC G A G G A A A A T TAA $A \operatorname{A} A A G G A A G G G A C A A G G A C A A G G G G G T T A G A$ AAAGGGGAGAGAACCAAAAGGCAGAGGAAAAAAGGGGAACAG G G G G G A A G GAA $A$ A $A G \operatorname{GAAGGGGAACCAACCAAAAAAAAAAACA}$ C C C G G C A G G A G A A G G G G T T A A A A A A A A G G G G C C G G G G C A G G A G G G GACCAAGGGGGGGGAACCGGAAAAGGAAAAAAAAAAGGA AAAAAAAAAGGAACCAAGGAAGGAAAAAAAAAAAAGGGAAAG G G G G GCCGGGAAACCAAGGCGGGGAGGAACCAGGGAAGAAAA G G G G GCAA GCAGGGAAAGAAGAGACACGAAAACCAGGGAAAA GAAACGGAACCGGCCCCAGAGGGGAGGAGACACCAAGGAACA GAGAGAACCAAAAGGAAAAGGAAGGGGGGCCGGGGGAAAAGG GAAAAAAATAGGGCCAAGAAGAAGGGACAAGAGCAGAA G GAAA $G C A A A C G C A G A A G A G G G A A C C G G G G A G A A G G T A A A A G A G A A G$ GAAGGAAGAAACCAAAAGAGGGGGGCCGGAAGGAGGAGGGGG G G G G G G G A A GAAAAACAGGGGGAAAGAGAGGAGGGAAAAAGA AA A GAGGCCAAGGGGAACAAAAGGGGGAAAGGAABAGAGAAC A G G G G G GCCGGAAGGAAGGAGGAAGGGGGGGCAGAGAGAAC G GAAAAAGCAAGCCAGGGAAGAGGTTGGGGGGGGAAGGCCGGG GAAAAAGCCAGAAAACCCCGGAACCGGGGAAAAGGGGAAGAA A A A A A A A $\mathcal{A} G G G A A A G G G G G G A G G A G C C A A G A G A G A G A A A G A G$ A A A A A A A G G G A G G A G CAAA A G G G G G G G A A A A A A A GCC GAAAC CATAGGGCAGAAAAAGGGCGGCCAAGAGGCCAAAACCAAAAC C G G G G G G G GCCAAGGAGAAGGAAGGAATACCAAGGCCCAGAA A G G G GCCGGGGAGAGGGGGAAAACAGAACAAGGGGAGAAGGA $A C C A A A G C A C A G G A G G A G G C A A A G A A A A G G G C A A A G A G A A A A$ $A C C G G G G A A G G A A A A C C G G G A G G G G G G A A G G A A G A G A A A A G A$ A A A A GAGGGGGGGAAAAAAAAAAGGGACAAAAAAAGAAAAGG A GAGGAAGAAAAAGGAGGGAAGGCCAAAACAAAAAGGGAAAG GCCGGCAGACCGAGGAAAAAGGAAGGGGGAAATAGGGCAAAC A GACCGAGAAAGAAAAATTAAAAAACCGAAGGGGAGAAAAAG G G GCCAAGGAAGGGGAAGGGGGGCCCCGGCCGGAAAAGAAAG GAAAAGGAACCCCAAAAAGACCCAAAGCAGGAAACAG
A GAAGGAGAGACCAGAGGGAGGAAGAAGGGAGGGCCGGAAA G G GAA A G G GAAAAGGAGACAGCCGGAGGGGAAGGAAGAAAAG GACAACAAAGAAGAGAGACAAAAAAACGGGGGGGGAABACAA G GAGAAGGAGAGCGGCAGGGGAGACAAAGAGAAAGAAAACAA CAAAAGGAAAAAGGGGGGGAAGGGGGGACGGAAGGCAAAAAC A A C G G G G A C G G A G A A G A G A A G G G C C G G G A G G A G A G A A G G G A A G GAAGGGAAGGAAAAAAAAGGGGAGAACCGGGGCAGAAAAAC CAACCAAGGCCGAAAAAGAGGGGGGAAGGAGAAGGAAGACAA CACAAGAAAGCGGCCAGGGCCGGGACAGAAACCAAAAGGGGA A GAGGCCGAAACGAAGGAAGAAAGGAAGGGGAAAAGGAGGAA ATAGGGAGGGGGATTCATAAAAAAACAAAAGAGGGCAGAAAAA G GACCAGGGAGAAAAGGGAGGGAGAAGAGCCATAACCAAAAC CAAGGAGGAAGAGAGAGGGAAAAGAAAGGAGGAAAGAAAAGA
 AAAGGCCAGGGAAAAAAGGGGGGAAGAAAAGCCCAGAAAAAA AACGCCCAGGGAAGGGGGGAAACGGGGGAACGAAAGGGAGGA A G G A A A G G G G A A G C C G G C C A G A A A GA $\mathcal{A} G G G G G G G G A G G A G A G$ GGAGGAAAAGAAGAACGAAAGAGGGAAGAGGGGAAAACACCG AA GATGGGAAAGAGGAACAGAAAAAAGAGGAGAGAGGGAAAG
 GAAA $A$ A $A G G A A A G G A A G G A T T G G A A G A C G G G G A G G A A C C G G G$ A GAGGAGCCAGAAGGAGGGCCAAGGAAGGAACCBGCAAAAGA $A G G G G A A G G A G G A C C A A G G G G A G G G G G A A G A A A G A A G A A A G G$

A G G G G A A A G G GAGGGGGGAAACCAGGGAAAAGGGGAGAAAGG A A G G G GAAAAAAAAAGGAAGGAAAGACGGAAAAAAGGGAAAA
 G G G G G G G G A A GAA $A$ G A GAAAAGGGGAAAGGGCC GAGACAGAG G G G GAA ATTGAAGCCAGGAAAGAGGAAGGCCAAGGAAGAAAA A G GAGCACAAGGGGAAAAAAAAAGAAAGAAGAAGAGCAGAAC
 CAAAAAGAGGAAGGAGGAAGGGAAAAAAAGGAAAGCCGGCAA CA $\operatorname{G} A A C C A G G G A C A C C G A G G G T A A A C G A G G G C A G G G G G G A C A$ $A G G G G A A A G A G G G G G C C G A G G G G G G G A G G A A A G A C C A A G A G A$ GAAAGCCGAGGGAGGCCGGGAAAAGAAGGAAAAACGAGAAAA $A C C G G C C G A C C A A A C A A A A T A A A G G A C A A G A A A A A G G A G C G G$ G G G A G G G A G A T A A A C G G A G G G A G G G G G A G G G G G A G A A A A G G A T G A A G A G G A A A A G A G G G G G A GAAAAGGCAAAAAGGGGAAAAC C GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{G} \operatorname{A} A C A G C A G A G A G A G A A G G A G G G G G A G A C$ A A GAGGAAGGGCCGGGGGGGGAACCAGACAGACGGGAAGGGA
 A A A A A G G G GAATTAGACGGAAGGGGAGCACCGGGGGGAACAG GAAAAAAAAGAAAGGAGAAGGGAGAAAGGGGAAGGAAAAAAG A A A A G G A A $\mathcal{A} A G G G C C A G A G A G A A A A A G G G G G G G A A A A A A C C G$
 TAAGGGGAGAAGGAAGGCCAAAACCCCAAGGAAAAGGGAAAG GAACCGGCAAGGGCCGAAGGACCGGGGGGAGAAGGCCGGGGG G G G A A G G G G A G A C G C G G G G A C A A G G G G A A G G G A G G A A G G A A A
 A GAAAGGAAGGAACCGACCGGAGAGGGAAGAGGAAAAAAAAA CCCGGGAAAAAAAGGCGAGAAAAAAAGAAGGAAAAAAGAGAA A A A A A A A G GAAACCAGGGGGGAAAAAGGGGGGGGGGGCCAAA GAGGGGGAAGGGGAGAGAGGGAGGCGGGGAAGGCCGGCAAAA
 GACAGGAGAGGAAGAGGCCAGGAGACCGGAGCCGGAAGAAAG GAGGAAAAAAAAGGGGAACAAAAAAAAAACCAAAGCCGGCCA AAAGGAGGAAAGAAAAGCCGGAGAAAAAAAGGGCGGGAACAA A A A A A GAGGAAAAGGAGCCTAAAGAAGGGGAGAGGAACAGAA A G G G G A A G GAAAAAAAAGACCAAGAGAGGAAGGGAAAAAAAC C C C A A G G G G G G G G A A C C G G A A A G A A G G G G G A A C C C G G G G A G G A A A GAG $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A}$ GAAAAAAGGCGAAGGAAGGACAAGGGGGGA GCAAAAGGGAAGGAAGAAAATGGGGAGAAAAAAAAGGAAAAG G G GAGGAACAAAGCCGAGAAAGAAGAAACAGACAAGGAAGAG A G G A G C A A A G G A A A G G G G G G G G A G A GAACA A A A A A A A G G G G A AAAGGAAAAGAAAAGAAAAAAGGACAAGGGGGGGGAACAAAG G G G G G A A A A A A A A A A TTAA G GAAGATTTACCAACCGGCAAA G G G GAGAACCAGGAGAGAGAGGAGAAGGGGGGGGGGGGAAAAT TAAGGAAGGAAGAAAGGAAGGAAAAGGGGAAGGAAGAGAAAA A G G G GCCAAAAAAGGAGGGCCGGGAGGGAAGGGAAGGGAAAG G G G A A A A A G G G A A G GAA $A \operatorname{G} G A A A A G G A A G G G G A A A A G G A A G G G$ G G GAA $A \operatorname{GAAAAAAGAGGGGAAGAAAAAAGAGGAGGGGGCAGAC}$ CAAGGAGACGGGGAGAAGGGGGGGGAAAAAAAAAAGGGAGAG G G GAA A G G G G GCCAAAGCCGGGAGGGACCGGGGGAAAGAGAA $A C C G G C C A A A A A G A A G A G A A A G A A G A G G G G G A A A A A G G G G G G$ G G G A A A A G A GAGGGGACAGGGCCAAGGCCGGCAAAGGCAACA $A G A G G G A G G G G G G G G G A A G G G G G A A A A C C G G A G A G G G G A A B G$ G G A A G A T G G G G A A A A G G G G A A A A C C A A G A G G G G A A C A C C G G G G G G G G A A A A A A C C G G G A A G A G G A G G G G G G G G G G A A G G A A A A $G$ G G GAGGGAAAAAACACCGGGGAAAAAAAAGGGGGGAGAGAAG AGGAAGGACGGAAAAAAAAGAAGAGGGCCAAGACAGAAACCC A A G G A A A G A G G G G G GAGGGGGAAAAAACCGGAGCAGGA G GA G A GAGGGGGACCAAGAAACGCAAGAAGGAAAGAGAAAAAAGAA GAAGAAGAACCGGAAAAAGAGGAGGGGGAGAGAAAGGAGAGC

ACCAAAAAAAAGAGACCAAAAGGAAGGGGAAAAAAAAATGAA
 G G GCC $C$ GAAAGGGGGGGGAAAAGACAAAGAGGAAAAAGAAATC CAAAGGGCACAACCCAGCCGGGGGGGAACGGAAGAGAAGAGC A G G GAGGAGGACCACGGAACAGGAAGGGGAAGGAAGGGAGGG G G G A G G G A A A G G A A G G G G G A A A A G G A GA G C A G G G G C C G G G G A G G G A GCC G A G G G A A G A A G A A A G G G G G G A G G G G C T T A C G G A A G GAAGGCCAACCCCGGGGGGAAGGGGCCAACCAAGGAAAAAAG G G G A A G G C C G G G G A A A A A A G G G G G G A A G G A A A A G G G G G GAA $\mathcal{A}$ GTTAAAACCGGAAGGAAAAGGAAAAGGGGCCAAAAGGAACCG G G G G G A A G GCCAAGGAAAAAAAACCGGCAAAAAGGAAAACCG G G G A A G G G G C C G A A G G A G G G G G G A A C C G G G G G G G A G G A G C A A A G G A G G A G A C A GAC C G G A G A A G G G G G G G A A A C G C A G G G G G G A $A G G A C G G G G A A G G G A G G G A A G G G G G G G A G G G G G A G A G G G G G G$ GAGAATTAAGGAACCGGAAGGCCGGGGAAGGAAGGAAGGGGG GAAAAGGCCGGAAAAGGAAGGAAGGAAGGAAAAAAGGCCCCG GAAAAGGGGGGAAGGGGAAGGCCGGAAAAGGAAGGAAAAAAG GAA A GAACCAAAACCGGAAGGGGGGCCAAGGGGGGGGGGGGG GAAAAAAGGGGGAGGAGAAGGAGGGAAAAAGGGAAGGGAGGA A A G G G A A A G G G A A A GA $A \operatorname{GGGAAAAGGCCAAAAAAGGGGGAAAA}$ AGGCCGGAAAATTCCAAGGGGAAAAAAAAGGGGGGAAAAAAG G G GAAAAGGGGCCAAAAAAGGGGAAGGAACCAAGGAAAAGGG GAAGGAAGGGGGGGGAAAAAAAAAAGGAAGGAAGGAAAAGGC C G G A A A A C C G G A A A A A A T TAA G GCCGGC CAAGGAAAAAA G G A A G G A A C C G G A A A A G G G G A A G G A A A A G G C C A A G G G G A A C C G G A A G G A A A A G GAA A G G G G G A A G G G G A A G G G GAA A G G G A A A A A A A A G G G G G G G GAAAAAAGGCCGAGGAGGGAAAAAGAAGAAAGAA
 G G G A A G A A G GAAAAGAGAAGGCCAAAGGAGGCCAAGCAGABA G G G GAGGGGGAGGGGAAAAAACAAGGGAAAAAGAGGGGAGGA G G G G G A A C C G G A G G A A A G G A G A G A G A A C C A G A G A G G G G A G G G AGAAAGGAAAACCGGGAAACCGGAAGGGGGGCAGAAGGGGGA AAAGGGGGGGAGGCCCCACGAGAGAAAAAACAAGGGGGAACA G GAC G A A A A G G G G G G A A A A A GACAACC G G G G CAAAAA G G G G A A G G A G A A A A G G A A A A G G G G G G G G C C G A C A G A A G G A A G C C G A G A G A C A G G G G G A A $\mathcal{A} A G C C G G G G A A G G G G G G G G A G G G A G$
A G G G A A G G G G G G G G C C G G G G A A G G G G G G G G G G A G G G A A A A $G$ G G G G G GAA A A A A GAAGAAGATAAAAGGGGAAGGGGAAAAAAG GAAGGAAGGCCAACCCCAAAAAAGGGGAAAAAAAAGAAAAAA A G G G GCC G G G G A A G G G G A A A A A A A A G G G GAACCGGCCAAAAA A A A A A A A G GAAGGAACCGGCCGGAAGGAAGGGGGGGGAAAAA A G G G G A A A A G G A A G G G G A A C C G G A A G G C C G G A A G G A A A A G G G GAACCGGGGAACCAAAAAAAAGGGGTTGGGGGGGGGGGAAAG G G G A A A A G GCCAAAAGGAAGGGGAAAAGGAAAAAAAAAAGAA A A A G G A A C C A A A A A A A A A A A A G G G G G G G G G G A A A A A A G G G G G GAAGGAAAAAAAAGGAAAAACCCGGGGGGGGGGGGACAAGBC

 G G G A A A A G G A A G G G G G G G G G G G G G G A A G G A A G G G G A A C C G G G G G G A A G G A A A A G G A A A A G G A A G GAA A GAA G GAA A GAAAACA A

 G G G G G A A $\mathcal{A} G G G A A A A A A A A A A A G G G G G G G G G G G A A A A G A A A G$ $G C C G G C C A A A A G G A A A A G G A A G G A A C C A A G G G G A A A A A A A A A$ A G G G G A A A A A A A ACCAAAAGGAAAAAAGGGGAAAAAAAAAAA A A A A A A A G GAA $A \operatorname{GAAAAAGGAAGGAAAACCGGGGAACCCAAAA}$ A A A A ACCGGAAAAAAAAAAGGGGGGGGAAAAAAGGCCGGGAAA A G G G G A A G G G G A A G GAAGGCCCCAATTGGAAGGAAGAAAAAA AAAAAAAGGAACCGGAAGGAAAAAAGGCCAAGGAAAAAACCA

A A A A A A A G G G G G G G GAA $A \operatorname{AGG} \operatorname{GA} A G G G G A A G G A A A A A A G G G G A$ A A A G G A A C C G G G G G G G G G G G G A A A A G GAAAAAAAGGAACAAAA A G G A A G G G GAA A GAAAA A G G G A A A A GGGGCCGGAAGGAAAAA AAAGGAAGGCCAAGGAAGGCCAAGGGGCCGGGGGGCCGGCCA A $G$ G G G G G G G G G A A A A $\mathcal{A} G G G G G G G G G C C G G A A A A G G G G G G G G A$
 A G GAC GAAAAGCAGGAAGAGGAAGGAAAGAAAAGGAGAAAAA AAAAAGGAAGACCAACCGGGGGGCAAAGAGAAAAAAAGAGAA AAAAAGGGGAACCAAAAAGGAAAGGAAAGGGGAAGGAGGGGA AAAGAAGAAAAAAGAACAGAAGGCCAAAAAGGGGAAGAAGAA
 GCCGAGAAAGGGGGAGGGGCCGGGGGAGAGGGACAAGGAGGA A G G A G A GAGGGAAAAGAAAAAGGCCAAGGGGCGGGGAAAAAA C G G G G G A A A GAGGGGAAAAAGAGAGGAGGGGAAGGGAAAAAC A ATCCAGGAGAAAAAAAAGAAAGCAAAAAAGAGGGAGGACBA AA $A$ A $G G G C G A G G A A G G G A A G A A A A G C C A A A G A A A A G G G A G G G$ G GATACCAAAAGAGGAAGGAACCCCAACCAAGGGGAAAAGAA A G G G G GAAAAAAGAAAAGGAAAAGGAGAAAGCAGACAAGGAA A G GAGGACCCGAAGAGGAAAAGGGGCCAAAAACGGGGGGCCG GAAG GAAAGGGGAAAAAGGCCGGAGAAAAAGAGACCACACAA A GAAGAGAAAAACAAACAAGGAGCCGACCGGGGCAGGAGGGG GAAAGGGCCCCAAGGCAAAGGAAGGAAGGAGAGAAAAAGGGG G G G G A G G A A A A GAC CAA $A \operatorname{AAGAGGGGGGCCGGGGAGGGCAAAG}$ G G A A G A A G G A A G G G G G G A A A A G G A G G G C C A A G G A A A G G G G G A A A A G G G G A A CACA $A \operatorname{CA} A A A A G G G G A A A G A A A G G A G A A G A G G A A$ A A A A A A A A A A A GAATGGAACAACACGAGGGAGAAAGAGAGGG1 AAAAGAGAAAAGGCCGGAAAGGAGAGGGAGAAACCAAAGAAA G G G C A A G A A A A G G G G G G A A A A A A G G G G A A GAAAA TAAA GAAC A G A A G G A G G G G G G A A A A G G G G A G G G G G A CAAG GAAAAAAAAA A GAA $A \operatorname{GGCC} G G A A C C G G A A C C A A G G G G A G G A G A A T C A C C C C G$ G G A C C G A G A G G A G G A A A G A A T C C C C G A A G A A A G G A A C T T G G G GAGAAGGAAAAAAAAGGAACCGAAGGAAGGGAAAAAAAAAAC A G G GACAAGGGGAGGAGGAAAACAGGGGAAAGGAGAAAAAAA
 A CAA $A \subset A G G A A A G G A G A A C A A G G G A A G G C G G A A A G G G G G G G G$ GAAAAGGAAAGAACCAAGACCAAAAGAACGGAAAACCAACCG AAGCCAAGAGGGAAGGAGAACGGAGAGAAACAAAAGATAGAA GAAAGAGAAGAAGGGACGGAACAAAAAGGAGGACCAGAAGGC C GAGGGGAGTTAGAGGAAGAACCGGGGAAAGAAAGAAA GA GA A G G G GCC G G G G G GCCAAAGAAAAGAAAAAGAGAAACACACAA A G G G G A A G GAGAGCAGGAGGAAAAAAAGAAGGGCAAAGAGGA C GAAGCCAGAGAACCCAAGAAAAAAAGGGAAGAAGAAAAGGG GAAGAGAGGGGCCGAAAGGAACCAAAGGAAAGGAGAGAA GAA GA GAAAAAAGGAACAGAGAGGAAAAGGCCAAAAGGGGAGACA ACAAAAACAAAGACCACCAAACAGAAGGGGGTAAGGACCGBA $G G A A A A C G G A A G G G A A G A A A G A A A A A G G G A G A G A G G A A A A A G$ GAGAGGGGGAAAAGGTTGGGGCCGGAAGGGGAGAAGGGGGGA A GA A GAGGAAGCCGACCGGAAGGAGGGCCAAAAAGAGGGTTG G G GAA A GAGGACCAAAAAAGAAGGGCACAAGCCAAGGGGGGC A A G GAGGGGCCAAGGACGGGAGGAGAATAGGGGAAGGGAAAG A A A A G G G A A GACAATCAGAAGAGGAGGAGGGGGAAAGAGAAG $G C A C C G G G G G A A C A C A A A A G A A A A A A A G G A A A G A G G A G A G G A$ GAAAAGGAAAGGAAAAGGAAAAGAGACAAAACAAAAGCAAAA A A A GAGGGGCAGAGGAGAGGAAAAGAAGGGGGGAAGGAGAAA $A G G C C A A A A A A G G G G A A A A A A G G G G A A G G A A A A G G A A A A G A G$ G GAGAGGGGAAGGGGAAAAAGAAGAGAGGCCGGAGGAAAAAC CACATAGAAAGAAAAAAATGAGGAGAAGGAGCAGGACGGGGG
 G GAGAGAACAAAGCGCAGGCCGGACGGCCGGGGGAGGGAGAA

GAGCCGAGAAGAGAAAAAGGAAAAAGAGGGGAAAAAGAAAAG
 GAAGGAACCGGCAAGGAAGGGGAGAGGACCCAGGAAAGACAC CAACAAAAGAAAGGGGGAAAAGGGGCCGAGGAAAACAGAAAA A GACCAAGAAAGAGAAACCCCGGGGCCGGCAAAGAGAAAGGA $A C C C A G G G G G G A G G G G G A A G A A G A A G G A A A A A G G G A A A A A G A$ G G G G A G G A GCGAAAAAGGAGAAGCAGGGGAGGAACAA GAGAA G G G G G G G G GAAAGAAGGAAAGGGGGGAGGGAACCAAAAAGAG G G G G G A A A G GAAGCCAAAAGAAAAGGACAAGGAGGAGAACAA AGGCCAAGGAAAAAAGGACAGGAACGAAAGGAAAAGGCCAAA AAAAACCAAAAGGGGGGGGGGGGAAAAAAGGGAGGGGGACAA
 G G G G A A A C C C C A A C C G GAA G GAAGGCCGAAATAAAGGGAAAA AAACCGGGGAAGAAACGAAAAAACCGGCCAAAAGGGAAGAGG GAAAAGGAGAAAACCCCGGCCAGGGAAGGAAGGGGGGCCGGG G G GAACCCACAAGAGAAGAAAAAAAGGAACCCCGGAAGAAAA A A G GAACGGGAGAAGAGGGCCGGAAGGAAACGGAGGGGAGAA A G G A G G G G G G G G G G G C A G A A A A A A A A A G G G G G GAA G GAAAA $A$ AAGAAAACCACGGACGGCCGGAGGGGGAAGGGGAACAGAAGA GAAGGAGAAGGAACCGGAAAGAACCCCGAGGAAGGCCCAAAA AAAAAGGCAGAAAACGGGAAGGGGGAGAAGGGGAAAAACGGG G G GA A G G G G G G G G A A A G A A A A C C G G G G GAGGAA G G G G G A A A A G G G G G G G G G G G A A A A G A G G A G A G A A G G A A G GAA $A \operatorname{G} G A G A A G G$ GAAGGAAGAAAAAAGACAGGGAGGAGGGAGAGAGGAAAAAAG
 A A G G G G G G G G G A A A A A A A A A CAGGGAAGGAGCCAAAAAACC C A G G G GCGGAAGGAAGGCGAGAGGGCAGGAACCGGGAGGAGAGG $G C C A G A A G A A A G A G G A G G G A A A A A C A G C A G A G A A A A G A G A A A$ GAGGGAAGAAACCAACCAAACAAACAAAGAAAAGGAAAGAAG G G G G G G G G G G A A A A A A A A A GACAA A A A G GTTAAAGAAGAAGA GAAAGAGAAGGCAGGACAAGAGGAAAAGGGGAGGAGAAAAAG GAGAGAAAGCCGGGGGAGGGAGGCCGGGGCCAAGAAGAAAAC ACAAAAACCCCACCACAGACAACGGGAAAAAAAAAGGGGGAA AAAAGGGCCGGGGAACCAGAGAGGAAGAGAGAGAGGGCAAAA ACCAAGAAGAAACAAAGAAAGAAAGGACCAACCAAGGAAAAG G GAGGGGAAGGAAGGCCGGCAAAGGAGGAAAAAAAAG
$A G C C G G C C G G A A G G A G G G A A A G G G C C A A C C G G G G G G A A C A G$ GAAAAAGCCGGAAGGCAGGGGGGAAAAGGGGGGAAAAAAGGG G G GCCGGAAAAGAAAGGAAGAAGAGAAGGGGAAGGCCAAAAG A A G G G A G G A GAGGCCGGAAAGAAAAGGAAGGAAAAAACAAAG AAGGGAGGGAGAGAACAGGGGAAAACCGAAGCAAGAGCAGAC CACAGGAACGGGGATGGGAAGAAAAAAGGGAGGGGACBGCAA A A A G G GAGGAAGGAAAAGGGAAGGGAGAAAAGGAGCAAAAAA A G G G A G A A A G G A G G G G G G G G G G G G G G G G G G G A A G G G G G G A G G GAAGGGGAAAGAGGGAGGGAAGGAAGGAAAAGGGAAGGAGAA A A A G G G G G A A A G G A A G A A G A A A A A A A A G GCCGGAA G G G G A A G $G C \subset A G A G G A A A A A A A A A A A A A G G G G A A A A C C C C G G G G G G G G G$ G G G A A G G A A A A C C G G G G G G G G A A C C C C G G G G G G A A G G G G C C G G G G A A G G G G G G G G A A G GCCAAAAGGGGCCAAGGAAAAAAGAA A G G A A G G A A G G G G A A G G A A G G A A A A G GAA A C G G G G A A G G G G A A G GCCAAAAAAGGGGAAGGGGAAAAAACCGGAAAAGGGAAAAA AAACCGGGGGGAAAAAAGGCCAAAACCAAGGAAAACCGGGGAA A G G A A A A A A A A A A G GAACCAAAAGGAAGGCCGGAACCAAGGC CAAAAGGAAAAAAAAGGGGAAGGGGGGAAAAGGGGAAAACAA
 A A C A A G A A A G G A G G A A A A A GA G C A G G A GA GAA A A A A A G G G G G GCCGGGAGGAACAGAAAGGGAAGGAGGAGAAAGGGGAAAAAC A A A G G A A G G G G C C A $\mathcal{A} A G G G G G G G G G G G G G A G G G A A G G G A A A B$ G G G G G G G G G A A A A G G G G G G A A G G A A A A A A A A A A A A G GAA G G A

A A A G G G G G G G G A A CAGGGGAGAAATAGAAGGAGAAGGCCCCG G G G A A G G T TAA A A GATTAACAAGGAGACCAAGAAAAGAAAAA GAAGGGGCAGGCCGGGGGGGAGGGGAGACGGAAGACCGAACB GAA A GAAGGGAAAGGGGAAAACAAAGGGGAGAAAAACCAGAA $A C C A A A A A G A A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A C$
 G G G G A G G A GAA $A \operatorname{GA} A \operatorname{A} G A A C C A G A A A G C C G A G A A A A A A G A A A$ G G G A A G G C C G G GAGGAGGGAGAAAAGGGGCCGGAAGAAAAAG GAACACCAAGGAGAGAGGGATAAGGGGGAATAGACAACAA GA AAAAACGGACCAAGGAAAAGGAGACAAAAGGGGAAAAGAAAG
 GAAAAAAAGAAGGAAGGAGAACCAAGGGGAAGGGGCCGAAAC A G GCAA $\operatorname{CA} A G G A C C A A A A A A G G A A G A A A G G A A A A G G C C T X G A A$ A A A A A A A A A G G G G C C G G A A A GAA $A \operatorname{AGGAGGGAACAACAAGGAG}$ GAACCGGGGGGAAGGAAGGGCGAGGAAAGGGGAGAAAAGGGG AGGCCCAAGGAAAAAGGGGGGAAAGGAAGCCGGAGGACAAGA GAGAGGGCAAGAAGGAAGGAAAAGGGGAAAAGGAGGGGAAAAA G G G G G A A A A A A A G GAGAAGCC GAAGAAGGAAGGGAACAACAA $G C A G G G A A A A C C A A A A G G G A G A G G G A A G A A A G G A A A G A G A A A$ A G G G G A A C C A G A G A G G G A G A GAGGGGGAAAGGAAGAGAAAAG GAGGGACGGAGAAGGAGGGCCAGGAAAAAAGAGGGGAAGACA C G GAAGGAAGGCCAAGGAACCAAACAGAGGAGAAGAACACCA ACCAACCGGGGAGAAGAAAAAAAGGGGAAACAAGAGAAGAGG A A G G G A A A A A A G G A A A A G GAC G G A A A A G G G G C C A A G GAC G G A A G G G G G G C A G G A G G A C C G G A A G G G GAGAAA A C C G A G G A G G A G

 G GAAGGACAAGCCGGAAGACAGAAGATAGGAAAAGGGGAABA TCACCAAGAGGCCAAGGAAGGAAAAGGCAAGACAAACAAAAG GAGAGAAGGGGAAAAGGCCGGAGGGAAAAGGGAGGAAAAGGA A A A G G A A G G G G G G C A G G G A G G A G G G G G C C A G A C G G A G G G G G G GAAGGGGGGAGGATTACAAGGGGGGGGGGAAGGAGAGGAAAA CAA A G G GAGAGGGAAAAAAAAGGAAAAGGAAAAAGGGAACAA A A GAA $A \operatorname{GCAAAACCAAAGAAGGGAGAAAAAGGAGCCAGGAAAG}$ $G C C C A C C A A G G A A A A G G A A A G A C G G G G A G A G C C A A A G A G A G G$ A A A G A GA $\operatorname{A} G C C G G G G G G G G A G A C G A A C A G G G C C A A A G A A A G A$ A A GAGGAAGGAGAGAAGGGAGAGAACCGGGAAGGAAGAAGGG G GACAAGGGGAACGGGGGGGAGGGGAGGGCAAGAAGGGAAAG GACGAGGAGAAGGAGAGAAGGCCGGAAGGAAAAGAAAAAGAA
 $G C C G G A A G G A A G G A A A A T T G G G G A A A A G G G G A A G G A A G A A A G$ G A A C C A A G G G G G G C C G G A A G G G G A A G G G G C C A A A A C C A A A A C C C C A A A A G G G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A $G$ GAAAAAAAAGGAACCTTCCGGGGAAGGCCGGACAAAAAAAAG G G G G G A A G G A G A G G G G G G C G G G G A G T A A G C A A A G GAACAA A $\mathcal{A}$ A G G G G GACAGAAGAAGGAAGAGGAGAGGGAAAGAGAACAGAG GAACCAAAAGGAGAAACAGAGGGGGAGCCAAAAGGGGGGGGG G G G G GCC G A G G G GAAAGAAGGACAACAGGAAGGAA GA GAGAG A GAAAAGCCGGAGGGCCAGGAGACAAAGGGATTAAAAAAAGG A G A A G A A A $\mathcal{A} G G A G G G G G A G A G G A A G A G A C G G G G A A G A A A G G G$ GAAGGGAGAGAGGGAAAGGCCGGTTAAGGGGAAAACAGAGAA A GAGGGGAAGGAAGAAGAAGGAAAGAAGAAACCGACAGGGGA A A G G G A C G GCCCAGGAAAAAGCCAAAAGGGGAAAAGGAGGAA G GACAAAGGCCGGGGAAGGGAAGAAGGGAGAGAGGAAAAACB G G G G G G G G A GAA $A$ A A $A \operatorname{GAAAAAACAGAGAGGGAGAGCAAAGAC}$
 C G A A G T A A A G G G GA G G GAC G G A A A GAGAAAGAA G G GA G GAAA A A G A GAGGCCGGAAAAGACCAAGGAACCACAAAGCCAGAAAAB GAAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGGAAGGGGA

A G G G G G G A A G G A A A A G G G G A A A A A A G GAAAAAAAAAAGACAA ACCAAGGAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCGAAAA AAAGGGGCCAAGGAAGGGGCCAAAAGGAAAAGGAAGAAAAAG G GGAAAAGGCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGG

 G G A T T A C A A A C A A G G G G G G G G A G G A G G A A G G A A A A A A C A G A G GAACAGGAGAACACAAAGGGGAACCAAAAAAGAAAAAAGAAA G GA GAACAAAAAAAAAAAAAGGAGAAACCGAGGAGAAGGAAA $A C C G A C C G G C C A A A G G G C A A A A A G A A A G G A A G G G G A A G G C C A$ A A A A A A A G G G GAAAAAGAGCCGGCCGGGGGGAAAAAAGAAAG
 GAAAAAAAAGGAAGGGGAAAAAAGGAAAAGGGGGGAAAAAAA AAAGGGGGGAAAAAAGGAAAAAAAAGGGGAAGGAACCCCGGG G G GAAAAGGAAAAGGAAAAAAAAGGAAAAGGCCGGGGGGGGA A A A A A A A A A A A G GAAAA $A \operatorname{A} A A A A A G G G G G G G G G G A A G G G A A A G$ GAAGGCCAAAAAACCGGAAAAGGCCAAAACCAAAABGGGGGG GAACCAACCGGGGGGGGAAAACCAAAAAAAACCGGAAGGGGC C G G G G A A A A G G G G G G A A G G T T G G G G G GAA $A \operatorname{GGGGGGGGCAAAA}$

 GAAAAAAGGGGAGAGGGAGCCAAAACCGGGGAAAGAAAGAGC CAACCGGAAAGGCGGTTAGAAAAGGGGCAAGAGAGAAACCCG GAAGGAAAGAAAGCCGGGAGAAGGGGGGGGGAGGGGGCCGBA A A G GAA A A ACAGGCCAAGGAAAAGGCCAAAAAAAAGGGGCCA AAACCGGAAGGAAAAAAAACCAAAGAAAGAAGGGGGAAAAAA AAAGGGAAAGGAAGGCAGAGGGGAACCGGCAGGGGGGCCCCA A A A A A G GAGGGAAAAGGAAGCAAGGAGGGAGAAAAAAAGAGC $G C A A G A A G A G G A A G G A G G A G G G G G G A A A A G A G A G G A A G A A A A$ C GAAGAACAGGAAGGGAGGAAAGACAACCCAAAACAAGGGGG $G G C A A A A A G A G A G A G A A A A G A G G C C G G G A G G G G G G G G G A A A A$ $A C C A A G A G G C C A G C A G G A A A A A A C C A A A A G G A A C A G G G G A G A$ GAAGGAATTAGAGCACACAACGGGGGGAAACGGGGGGAAAAA $A C \subset A A A A G G G G A A A A A A G G G G G G G A C C G G A G C C A A A A A A G A G$ G G GAAAGGGAAAAGAAAAAAAAACCAAAGAAACAACACAAGA $C G G A A C C G G G A A A A G A A G G A A G G A A A A G G G G A A G A A G$
A A A A GAAGAAGAGAAGAAAGAGAACGGGAAAGAGGGGAAGA GAGGAGAGGCCACAAAACCAAGGAGAGAGAAAGAGTTGAAAA ACCGGAGGGAAACGGGGGACCAGAGAGGACCAGAGGAAACAA G G A A A A G A CAA $A \operatorname{GAAAAAAAAAAAGGAAAAAACCAAAAGGGGG}$ GAACCGGAAAAGGAAGAAAGGAAACAGTAAAAAGGAAGAAAG A A A A G GAA $A \operatorname{CA} A G A A A A A G G A A A G G G A G A A G A A A G A G A A A G G G$ ACAGGGGGGGGCCAACAGGAAAAGGGAAGAGAGAGAAAAAAA G GAGGGAGAGAACCCAAAACAGGGGCAAAGGAAAACCCCABA A GAGAAGAGAAAAGACCGAGGAAGAAATTAAGGGAGGCCGGC CAAGGGGAGAAAAGGAACACCGGGGCAGGAAAGAGCAAAAAA
 GAGAAAAAGAGAAGGAAAAAAAGACGGCCGAACAAAGAAGAA A G GCCGAAAGGGGAGGGAAGGGGGAGGCCGAAAGAAGAAAAG GAGCCAAGGAAAAAAGGCCGACCAGAGAGGACAGAAAAGAGG $A A G G G G G A A A A A A G G G G G G G A G G G G G A A A A G G G G A G A A A G G G$ GAAAACCAATTAACCCGTTAAAAGGGGCCGGGGCAGGAAGAA G C A A G A A A A G A G G A A G A G G A G G G CACCAGCCA T T T C C C G G G A G GAGCCAAGAAACCGGGGAGGAGGAGCCAAAAGGGGCCGEGAA G G G G G GAGGAAGGAAAGGGAGACGGAAGGAAGGCCAAAAGAA AAACCCCAAGGAAGGAGAAGAGGGAAGCAAAGGAGGGAAGGG $G G G A A A A A A G G G G A G G G A G G G G G G A G A G G G G A A G A A A G A A G A$ GAAGGAAGGAGGGAGAAAAAGAGAAAGAGAGAAGGGGGAAAA GAGAAAGAGGGAGCAGGCCGGAGAACCCCGGAAGGAAGAGAC

AAGGGCCGGAAGGGGGACCAACCGGGGAAGAAACCGGACGAA G G G G G C A A G G G A A G G G G A A A T G G G G G A A A A A C C A A A A G G G G T A G G G G G GCCAACAGAAGCCGGAGGGAAGAGAAAAAAAGAAAC C GGCCAAAAGAAAGGAAAAAAGAAGAAGGAAGAAGTAGGAGA AAAGGAGAAGGAAGAGAAGAGGGGAGGGGGAAAAAAAGAAAG GACAGAAAAAAAGGGGAACGGAAGAAAGACAGGCCAAAAAAG G G G G G A A A C A A A A G G G G G A GAGAAGCA GAAAAATTAGCC G GA AACAAAGGAAGGAGGAATTGGGGCCGGAGAACCAGGGAAGGG A A A A GAACCAAAAAAAAAGACAAGGGGAAAGAAAAGGGAGAG AAGGAAAGAAAGAGGAAGGAAGAGACAAAAGGGCAAAGAGGA GAGAAGAAGACGGGGGGGGCAGAGAAAAAAACCAGAAGGGGA G G A G G G G G G A A A G A A G A G G G G G G A A A A G A A A A A G G G G A G G A G A A GACATAGAGAGGAACGAGGAGAAAGGAGAGAGGGGCCGGG A A G A G A A A A G G G G A A A A G G A G G GAAAA A G CA A GCCAAA GAC C C C A G G A A A A G G A A G GCCGAGGCAGGCCGGGATAGGAGAAGAA $C G G G G G G G G A A A G A A A G A G G G A A C C A A A C G G C C G G G G G G G G A$
 A A A G A G G G A G G A G GAGGCCCAGAGAGGGAGGAAGAGAGAAGA $G G A G G A G A A A A A G C A A C G G G G G G G G C C G G A A G G A G G A A G A A C$ C G G G G G G G A G G A A A G CAAA A $A$ A $\mathcal{A} G A A G G G G G G G G A A A C A G A A G$ GAA $A \operatorname{G} A A A A G G A A A A A G G A A A A G A C G G A G G G G G C C G G G G C C G$ G G GAA $A$ A $C \subset G G G G A A A A A G A A G G G G A A G A A G A G G A G A C A A G G$ G G G A A A A A G G A C C G G A GAGCAGGGGGGCCAAAACCAAGAGAG A GAGACCCCGGAAGGAAAACCGGCAACCCAAGAGGAGGGGGA A A G A A C C A A G A G A G G A A A G G GAGCCAAACAGGGGGCCGAAA G GAGAGGGAAGGAGGAAACCAAGGGGCCCCGAGGGGAGAAAAG G G GA $\operatorname{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A A C \subset A A G G A A A G G G G G A C A A C A G G G G G G G G G$ G G G G G G G G G A A G G G G G G A A A A A G G G A G C C A A G G G G A A A G G A A G G A G A G G A G G G A G G A GACCAGGGTAGAAAAGAAGGAAAGAGG A GAAAGGCCAAGGGGAAGGAGGGGGGGGGGAGACCAAAAGGG G G G G G G G A C C C G G G G C A A G A A A A A G C GAA A A A G G A A G A G A A G GAGAAGGGAAGGAAAAAGGCCCCAACCAAGGGGGGAGAGAAA G G G GAGAAGAGACGGCGGAGGACCCGGGAAAAAACAAAAGAA A A A G G C A G G G G G G A A G A G G A G G A A C G G A A A G G G A A A G G G G G G G G G A A C C G G A A A A A A A A G G G G A A A A G G GA G A G G A A A A G G G G G GAAGGGGGGCCAAGGCCAGGGGGAACAAAAGAAGGAAAAAGBG GAGAAGGGGGAGGGGACAAGAAGAAGGAAAAAAGGGAAAGGA AAAGGGGGGAAGGAAGGCCAAAAAGCCGGAAGGGGGAAAAAG G G G G G A A G A A G G C G A A GAGAGGGAAGGAGAAAGAGGGAACAA A G GAACAAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A C A A A A A A C C A A C C A A G G G G G G G G G G C$ C C C A A C C A A A A C C G G C C G G T T A A G G G G G G G G G G G G G G A A G $G A$ A G G A A G G G G A A G G G G G G G G A A G G C C G G G G A A A A $\mathcal{A} G G G G G G B A$ AAGGGAAAAGAAGAAGGGGGGCCACCCGAGGGAGGAAGAAAG GAAGGAAGGGGAAAAGAAAAAGGAGGGAAGAGGCAACGGGAA
 C G G G G G G A A G G A C G G CA A A G G T T G G A A G G A G G G GA G G GAA A A GAAACAGAGGGGGGGAAAACCAAGGGGGGCACCAGCCAAGAA A G GAA A A A GAGAACCAAGAGGCCAAAAGAGACCAACAGGGGA A G GAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAG $A G A G G A A G G A A G G A G A A A A G G A A G G G G G G G G G G G G G G G A A A C$
 A G G A A A A A ACCAAAAAAGGAAAAAAAAAAGGAAGGAAGGGGG G G G G G G G A A A A A A G G G G A A A A A A A A A A A A A A C C G GAA $\mathcal{A} G G G G$ GAAAAAAAAGGGGCCAAAAAACCGGAAGGAAGGAAGAAAAAA $A G G G G A A A A G G G G A A A A A G G A A G A A A G A A G A G A G G C C G G G G G$ G G GAAGAGGAACCAGCCGGAAAGAGAGGAAAAGCGAAAGGAA
 A G G A A C A G GAGCAA GACAGAAGAGAAAAAGGCA G GA G GA G G A G G G GAGAGACAAGAGAAAGGGAAGACCGGAAGGGGGAAAGGG

G G G G G A A A A G G G G A A A A A A G G G G G GAAAAAAAGAGGGGAACAG
 GCAGAGGAAAGAAAGGAAAGAAGGAAACCAGACCCGGAAGAG GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGGGAAAAAAAAAGAACCCAGAGGGAAAGGGGCAAGC CAAAAGGAAAGAACAAGGAGAGGGAGAGGAGGGAAAACAGBA GAACCCCAGCAGGAAAACCAACCGGAGAAGGAAAACCAAAAA A G GAACGAAGGCCTAAAGGGGAGAGAGAAGGGAGAGGAAAAG G G G G G A A A G A G A A A G G G A GCCAAGGGGCAAGGACCGGCAA G G GAAAAGGGGGAAAGGCACCAGAAGGCCAAAACCAAGGAGAGG GCGCGAGAAAACCGGCAAAGGGGGGGAAAAAAAAAAAGAAAA GAGGGAACCAAGAGAAGACATAGCACCCCAAAAGGTTAAATG A GAGAAAGAGAAAAAGGGAAGAGAAGAGGAGCAGGGGAAGAA AAAAAAGGGGAGACCGGCCAAAAAAGGCCAAGGGGGAAACAA GAAAAGGGGGGAAAGTTGAGGAGACAGAAGGCCGCACAACAA GAGAAGAAGAGGGCAAAGGAATTACAAAAAAGGCCCCAAAAA A G GCC G GCCGGGGGAGGAAACAGCCGGGACCGGAAAAGAGAA C G G T A A A G G G G A A G G G A GA $\mathcal{A} G G G G A A A A G C A G G G G A A G A A A A$ A A G A A A G A A G G A A A GA $A \operatorname{AGGGAGGGAGGGGAAGGAAGGCCGGG}$ $A C C G G A A G G C C G G A A G A G G C C G G G G T T G G C C G G A G G C G A A A G$ AACAAACAAAAAAAAGGGGGAAAAAAAAGGAGAAAAAGGGGG ATTAAAAAGGGAAGGAAGGCGAGAAGGGAAGGGAGAAAAA GA A G G A A A A A A GAAGAGAGCCAGGGGAGCAGAAGGGGAAAAGGG G G G A G A A A A GAAGAAAACCAAGGAGAGAAGGAAAAGAAAAAA A G G A T A G G A A G GACCC G G GCCCAGAAGAGGGGGAGGAAAGAA A A A G G G G G G G GAAAA A GAGGGGGAAAAAAGGGGAGGGAA GAA A A GAGGAGGGGAAAGGGGGAAAAAAAAGAAGACAAGGCCGGG GAAGGGGAAGAGGAAGGAACCGAAGGGAACCAAACAAAAAAG A A G A A T TAATTAAAAAAAAGGAAGAAGAAGGCGGAGGCAATA A A A G A G A G G G G G G G G G G C C G G G G G G A A A A $\mathcal{A} G A A A G G G G G G G A$ A A A A A C C A A G G G G G G G GCCCCAGGGGGAGAAAAAAAAGGGAA CAACCAAAACAAGACAAGGCACCGGAGAAAAGGAACCGGCAA ACAAAGGGCAAGGGGAAGGGGAAAAGGGGGGGGGAAGAAGAA ACAGGAGGGAAACAAGGGGAGAACCGGAAAAAGCAGAGCGBA
 A G A G G G G C C G A G G G A G G G GCCCCACCAAAGAAAAA G G
G GAAAAAGGGCCCAAGAGCCGGAAGGAACCAACCCCAAGCA GAA $A$ GAAAAAAAGAAAACCAGGGGGCACACCAAAAAAGAAAA G G G G G T T A A A A G G G A A G G A GAA $A$ G GAAGAGAGAAAAAACAAAA
 $A C A A G G G G A A A G G A G G A G A A T G G A G C C A A G A A G C C G A C C C C G$ GAACCACAAAAAAAACCAAAAGGAAAGGGGAGGAAGAAACAA A G G A A C A G G G G GAA A G GAAAGGGGAGGAAACGAGGTTGGGGA GAAGAGGAAAAAGAGCCAAAGGCAGGGAAAAGAAAGGAAGAA A G A A G G A A GCCAA $\mathcal{A} G G G G G A A A A G G C C G G A A A A G G A A C C C C G$ G G G G G A A G A A C G GCGGGAGAAAAAAAAAACCAA $\mathcal{A} A G G G G G C C G$ G G GAAAAGGGAAGCACAGAAGGAGGAAAGAAAAGGGGGGGGC
 GCAAGGGGAGGAAACAAGAAGAGAAGGAGAAAGAGAAGAAAG $A C C A A G G G A C C T T G G G A C C C A G A G G G C A A G G A G G A A G A A A A G$ G G GCGGACCAGAGGAGGTTAAAGAGAGAAAACCCCAAGAGAG G G G G G G G A A C C G G G G G G G G A A G A G G G G G GAA A G A A G G G GAA A A A G G G A A A A C C G A G G A G G A G G A A G G G G G G G A G A A A A G A A C C G $A G G C C T T G G G G G G A A G G A A G G A G A A A A A A A A G G A A A G A A C A A$ AA $A A C G A A A A A G G G A A A G G A A G G G G G G A A G G A A A A G G G A A A G$ GAAGGAAAAGGAGAGAAAGAAAGCCGGAAGGGGGGAAAAAGAG G G GAA A G C C G G G G A A G GAAAAAAAGGAAAAAAGGAAGGGAAAA A T T A A G G A GAAACAAAGAGGGGGGGAAAAAGAAGGAACAAAA A G G A A A A G G G GCC GAAGAAAAAACCCACCAAAAAGAAGCCCT

TGGCAATAGCCAACCAGAGGGAAAAGGGAAGGGAAAACAAAA
 A G G A A A G C A A A A A A A A GAGGGAAAGAAAAAGAGAGGAGAAAA A G GAAAAAAACAGGGAATTGGGGAAGAGGAGGGAGAAGAAGA GCAGGGGAAGGGGGGCCGAAGGGGGGGAAAGAAAAAGCCGGG G A A A A A A A A $\mathcal{A} G G G G G G G G G G C G G A A G G G G A A C C C C C C B A A G G$ A A G G A A C A A A A A GAGGGAC GAGAGAACCAAAAAAAAAAAA GA GAGGGTAAGAGGAAGAGACGAAGGAAAAAAGAAAGAGGAAAA T G A G A A A A A A G A A G A G A A A G G A A G G G G G G A A G G A A T T A A G A G G G GAGGAAAGAGAAACAAGAAGGAAGAGACCCCAACCGAAAG A G G GAA $A \operatorname{GA} A A A G A A G G A A A A A C A G C C A A G A A A A A A A A G A G G$ G G G G G A GCCAA G GCACCAGGAGGAAAAAAACCAA GACGGGGG
 A A A GAGGAAAAAAAAGAGGAACCAGAGAGATCGGAAAAAGGC CAA $A \operatorname{GAAAAAAAGAACCAAGAAGGGGAAGAAAGAAGGCAGAG}$ A G GAGAGGAAGCCGAGGAAGGGGAAGAAGAAAAAGGAGAAAG A A G A A G G A A A G CAA $A \operatorname{GGGCAAAAAAATAAAAAAAAGGAGGGGG}$ GAGGGGGAACCAACAGAAAAAGGAAATAAGAGGGGAGAACAG AGGCCGGGGAAGGGGAAAAGGAGAGAGGGCCGGAAAACAAGG GAATTAAAAAAGAAAGGAAGGAAGAAAGGAAGGAA GAAAAAC CAAGGAAGGCCAAGGAAGGCCACGGAGGAAGGGAAGGGAAAG A G G G G G G G A A A A A G G G G A A A G G GAGGAAGCCACAGGAAGCCA G T A A A G A A A A G GAGGGGAAACGGGAAGGGCCGGAAAAAAGAA G G G A A A A A A A A A A G CAA $A \operatorname{GGGGGACCAAACAACCCCGBAACCT}$ A A G A G A A A G G A G A A G A A A G G G G A T T A A A A A G G A GA G G G G A A G G

 A A C G G A A A A C CAG G GAGGGCCAGGGGAGGACAAAGAAGAAAA A A A G G A A G A A TA $A \operatorname{G} G A G A A G G A A A G A A G G A A A A G G G A A A G G G$ AAAAAAGGGACGGAAAGAGAGGGCCCAAAGGGAGAAGGAAAG
 $A C C G A G G A A A A G G G G G G A A C C A A G G A A A A G A G A A A A A G A C A A$ AA GAGAAGACACCAAACGGAAAAGGGAAGAAAAGGAAAAGAA G G G G G G A A C A G GA G G G A A A G GACGGGGAAAAGGAGAGGAAC G G G G A G G G G G G G A A A A $\mathcal{A} G G A A G G A A A G G G G G G A A A A G A G G C C C$ $A C C G G A G A A A G A G A G A G G A G A A A G G G G A G G A G A A A G G G A A G G$ G G G G GAA $A \operatorname{GA} A A G C C G G G A A A G G A G G G G G G C G G G G A G A G G G A$ $C G G C C G G G A G G A G A C A A A T G A G A A C A A G G G A G G G A G G G G C C G$ GAGAAAGGGGGCCAAAGAAAAGGGGAAGGAAGGAAAAAAAAA $A C \subset A G A G A C G G G A A G A G G A A A A A G G C C G G A A A A A A A A C A A G A$ $A G G A G G C G A G A A A A A G G G G G G C C A A G C G A A G G G A G A G G A A A G$ G G G A G G G C C G G A A A G G A G G A G G G A A A A G G A C G A A A A G G G G G A G GGCCAAAAGGAGGAAAGGATGGGGAACCGAGGGGGGAAAAC C G GA GAGCCACAAAAGACAAAAGGGAACAAGAAAAGGGAAAA C T TAAAACCACAGAGAACGAACAAGCCGGAAGGAGAGAGGAC A A A A A A A G GAACCAGGAAAAAGGGAAAAGAAAACCCCAAAAG G G GCCAAACAAGGACGAAAGGGAGAGAAGGAAACCAGCAAAG $A C C G G G G G G A G A A C A A A A A C C A G G G G A G G A A A G G A A G G G G G G$ GAACCAACAGGGGAAGGAAAAAAGAAGAAAGCAAAAGGGCCG $G C A C C A A G G A G G G G G G G A A A G G G G G A G A G A A C C A A A C A G G A G$ A G G A A A G G G G A G G G GCCAGTTGAAAAAGGAAAGAAGAA GAAG AGGAAAGGGAGAGAACCGAGGGAGGAAGAGGAAGAGAAGCAA A A A C C A A G G A A A G A GAGAGAAAGAAAGAAGGAAAAAAAA AAA AAGCCGGAAAAGGAAAAAGAAGGACCCAGGGGGAGAGAAAAA GAGGAGGGAACGAGAGGGGGGAAGGCCAGAGGGAAGACCGGC $A C A G G A G C C A C G G A G G A G A G A G A C G A G A A G G A G G G A G A A G G G$
 GAAAAAAGGAGGGAAAGAAGGAAGGGAGGGGAAAGGGCAAGAG A G G A A A A A GAAAAAAGGAAAAAAAAGGGGAGCAGAGAGGCCA

A A ATTGCAGGAAAGGGGAAGAGGAAGGAAATGGAGGGAGAGA G GAA $A \operatorname{G} G A A A A A G G G G G A G C C G G A A G A A A G G C C A A G G G A A A G$ GAAGAGGGGGGGGAGGAGGCCAGAAAAGGACAAAAGAAGAAA GAAAAGGAAGAGAACAGGAAGAAAAAGAGGGAGAGAAGAAAA A G GCC C G G GAA A G G GAA $A \operatorname{AGGGAA} G G G G G G G G A A A A A A G G G G A$ A G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G G A A G G A
 A G GAAAA $A \operatorname{A} A A \operatorname{A} G C C A A A A G G A A G G A A G G A A A A G B A A A A G G G$ GCCCCAAGGCCAGAAGGGGGGGGGGAACCGGCCAAAAGCCCG GAAGGAAGGGGAACCGGAAAAAAGGAAAAAAGGAACAAAGGC $C \subset C G G A A C C A A A A A A G G A A G G A A A A A A G G A A G G G G A A G G G G A$ $A G G A A C C G G A A G G C C G G A A A A G G G G G G G G G G A A A A G G G A A A A$ $A C C G G A A G G G G A A C C C C A A A A G G G G A A A A G G A A A A C C G G C C G$ GCCGGAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTXGGG G G G G G A A G G G G G G G GAAGGCCAAGGCCGGAAAAAATTAAAAA A G GAA $A$ G A A A A A A G GAAAAAAAAGGAAAAAAAAGGAACACAC CAAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGAAAA A G G G G A A A A A A G GAAAAAAGGAACCCCAAGGGGGGGAAAAAA G G G G GAA $\operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C \mathrm{C} G \mathrm{G} A A A A C C G G G G G G C C A A G G A A G A A A A$
 AAAGGAAAAGGAAACCAGAGGAAAGCAAAGAGAAGGAGGACG GCGAAAGACAAGGAAGAAGCAGAAAGGGGGGGGACGGACAGG A A G GAGAGACAAGGAGAAAAAAAGGAAGAAGAACCACGGGGG GAATTGGGGGGCCGGGGAAAACCAGGGAAAAGGGGGGGGGGA G G GCCGGGGCAAAAAAAGAAGGACGAGGAAAGAA G GAAGGGGC A G G G G G G A A G G G G G G G GCC G G A A A GAC G GAAAA A A T T GACAC $C \subset A A A C A C C A A A G A A G G G A A A G G T T A G A A G G A A G G A G G G G G G$ GCCGAGGAGGGGGGGACAAGGAACAGCAAAAAAAAAAGAGCG G G GAGCCCAGGAAAGGGAAAAACGGAAAAAAAAGAGGAAAAC CAGAGGGAGAAGGGAGGGGGGAAGAGGAAGGAGAAAACAAAA A G G G G A G A G C A A A G G G G G A A G G G A A G G G G G A G G A A G G G A G G A A G G GAAAGGGAAAAGGAGGAGAAAGGGACGGAGAAGAGAAAA A G G G G A A G A A A A C G G G G G A GAGGGGAACCAAAAGGGGGAAT G G G G A A C C A A A A A A A A G G G GCGCAGAAGAAGGCAAAGGAAGAA
 A A A A A A A G G A A A G G GAGAACCAACAAAAAGGCCGAGG
$C \subset G A G G G G A A G A A A C C G G A G G G G G G G A A A A A G A A A A A A A A G$ G G GAGGACCGGAAGGAGAGGGAGGAAGAAAGAAACAGAAGGG A G GAA $A \operatorname{GA} A A A G G A A A A T T A A C A G G A G A A A G A A G G A A A A A G A$ A A A A A A A A G G G A A GATTACCCGGAGAGAACCCAGGGAAGGAA A G G G G GACACAAACCAAGGGAAAAAAAAAGGAAAAAGGACAG GAACCAGAATTAAGGGGGAGGAGAAGGGGGGAGAAAAGAAGG G G G G GA GAACCCCCCGGAAGGAAAAGGAAGGAAGAAAGAAAA G G A G A G G A G G G G G A G C C G A GAAGCCGGGAGGAGAGAGAGAAA AAACCAAGGGGGAAGCCAAGAGAGGCCGGAAAAAAGGAAAAA CAGAAAAGGAAAAAAAACAGGAGGAAGGAAACCAGGABAAAC
 A G GAAAAGGGACCCAAGAGCCGAAAGAAAGGGGCCGAAAGAA AAAAAAAGAAGGAAGAAAAAGGGAGAGCCGGAGAAGGGAAAC CAAGGAAGGGGAAAAAAAAAAAAGGAAAAGGGACCAGAAAAG G GACCGGGGAAAAAACCCCAGAAGGAAAGAAGAGAAGGAAAA A G G A A A A A A G G G G G GAA A G G G A A A G GA A A G GAAA A G G A G G G G $G G A G A A G A G G A C C G G G A A G A A G A A G A G A G A A A A G G A G G A A A G$ A G G G G G GA GCA $\mathcal{A} G G G G G A A A A C A G G C C G G G A G G G G A T G G G G A$ A A A GAA A G GAGAGGAAGAAAGAAGGGGGGAGACAGGGGAAGG G G G A GAGAGGGAAACAGGACAGGAAAGGGAAAAAAGGCAGAG G G G G A A A GAGACCAAAAAAGGAAAAAAAGGGAAAAGGGAAAA A G G G G C G G G G G A A G G G A A A A A T A A A A G G G G G A GAA A C A G A G G GAGCAGGCCAAGAAAGGAAACGACCGGAAAGGGTTAAAAGAA

AAAGGGGAAGACAGACAGAAAGAGGAGGAAGAACAGGGGCCC A G G G A A G G A G G A A A G G A A GCGAAAAAGGGGGGGAAAACAGAA A A A G G G G GAGGAAGGAACGAAACGGGGGGGACCAATAGAAAA A GAACGAAGGAGAAGGAGGATACAGGGAACCAAAAAGAGAGG GAAAGGACAAGGGGGGGAAGGAAGGGGAACACAGAGGGGGGA A GAA A C C A GAGAGGGGGAGAAGGCCCCGGGAAAGGGGAGAGC CAA $A \operatorname{GA} A \mathrm{~A} A A A A A G A A A C C G G G G A A G G C A A A G A A G G A G A G G A$ AAAAGGACAGGAAGAGGAAAGAAACGGAAGGAGGGAGGAAGG GAAAGAGAAAGAAGGAAAAGGGGAAAGCCGGAAAAAAAAAGG G GAGGGGGGAAGGACAAAGAGCAAAAAGACCAGAGAGAAGGG GAGAAGGACAAGGGGGGGAAACCACAAGGGGAAGGGGCCCCG
 CAAGACCGCCCAAGGGAGAGGAAAGAAAAAAAAGGGGGAGGG GAGCCAAAAAGAAAGGGAACCACGGGGAACCGGGGGGGAAAA ACCGAACAGGGAAAAAAGGGGAAAAAAAAAAGAGGATCAGAG GAGAGGAAGACGAGGGGCCGGAGAGCCAGAGGGAAGAAAAAG G G G G G G G A A GAGGAGAGAAAGACAGCCAAAGGGGGAAGAAAA
 AAAAAGAGAGAAGAGGGAAGGAGGAGAGCAGGAAAGAAGGGG GAAGACCGGGGGGAAGGGAAGGGACGAGAAGAGGAAAAGGGA G GACCAGCAGAAAAACCGGAAGGAAGGGGGGGCAAGAAAAGA G GAGGGGAAAAAAAGAACCGAAGGGGGGGCCGGGGGAACAAA

 GACAAAGGGAAAGAGAGAAGGAAAGAGGGGGAAGAAACABAA G GAAAAGAAAGAGAAGGCCAGACAGGGCCGAGAAAGAAAGAA A G GAA A A A C G G G G GAGGGGCCAAAGGGAGGGGGAAAGGAGAA A G G A G G GCCTTGGCCACGGCC GAAAGGGGGAAAGGGGGGGGA A G G G G A A C C G G G G A A A A G G A A G G A A A A G GA GAACAA A A G G G A AAAAGGCAGGGAAAGAAAAAAGGGGGGCCCCAAAAGGGAACB $A G A G G A A G G C C A A G G G A A A G G G A A A G G G G G G G G A G G A G G G G A$ AAAGGAACCGAGGGGGGGGAAAAAGGGCCCCAAAAAAAGATA GAGGACCAAGGGGAAGGAAAAAGGGGGGAAGCACCAGAAAAAA A G G G C A G G G G G A A G A G A A G A A A A GAGGAGAGGAAGATG GTTA
 $A C C G G G G A A A C G G G G A A G G G G G G A G G G G G A A G G A A A A G A G G G$
 ACCAAAAGGGGGGAAGAAACCAGGGAAACAAGGGGAAAAAAG GAACCAACCCCAAAAGGGGAGCCCCACAAGGCGAACCAACAG A G G G G G G A C A G G G G A G A G G G GACCC C G G GAAAAA A G GAA G C C C C GAGAAAGGAAACAGAGAAAAGGGGAGGGAAAACCGGGAAAA A G G G G A A G G A G G A A C G G A C A A G G A C G A A A G G G G G A G G G G G A G G GACGAGGGGAGGAAAGGAAAAAGAGGGAGAAGAAAAAAAA GCAA C GAGAGGGGCCACAACCGACAGAAAGGGGAACCGAAGG G G G A G G G G GCCCAAGAGGGGGGGAAAAGGAAAAGAAAAAAAA A A G G G A A A ACCAA $C$ C GAAAAGGAAGAGGCCCCAAGGACGGGAC A G GCCAGAAAAGAGGGAAGAAGAGGAAGAAAAGAGGGAGACB GCAGGGGCCAAAACCAAAAAAAAGAAAACGGGGAAACAAAAA C G G G GCCGGATAGGGAGGGAGAAGGAAAGGAAGGAAACAAAA A A A A ACCCCCCAAAAGGAGGGGGCCAAGACCAAGGGGAAGAA GAGAAAAGGGGTTGGGGAAGAGAGAAAAAACGAGAACAGCAG A GAA A G G G G G GAGAAAGGACACCGAGGCAAACCAAGAAAGGG GAACCCCAAAAAAAAAAAACCAAAAAAAAGGGGAAAAGEGGA A G G G G GACACCGGGGGGAGAGAGCCAAGGAAAAAAGGGGCCG
 GAAGGGGAAGGGGGGAAAAAGGGAGCCCCAAGGGGAGAAGGA G G GCAGGCGAAAAACAGAAGGAAGAGGGACCAAGAGAGAAAA A A A G G A A G A CAAG G G GAGGCCGAAAGGGAGATAACGGAAAAA $G C A T T G G G A A G C C G G A G T A A A A A A A G G A A A G G G A A A A G A C A G$

AGGAAAACCAAAACCGGGGAAAACCGAAAAGGGGGAAGGGGA $A G G G G A A A A G G G G G A G A G G A G A G G G A A A A A A A G T T A G A G A G G$ A A G G G G G G GAAAA A GAA A G CAACCGAGAAGGAACAAGAAAA G G CACAACCAGGGAAAAAAGGCAGAAAGGTTCCGGCCAAGAGGG G G GAACCAAAAGGGACCGGCAAAAGGAGGGAGGGAGAAAAAA G G G A C G G G G G G G G G G G G G G A G G G G A G G A A C C A A A A G G G G A G G A A G G G GACCACGAGAAGGGAGAAGAAACCGAGGCCTTGAAAG AACGGAAAGGGGGGGAAGAGAGGAAGGAAAAGGCCGGGAAGB A G A G A G GAACGGAGAAGACGGAGAGGGAGGAGAACACGAAGA $A C C A G C A A A A A A A G G G G A A A A G G C C A A A A G G G G A A G G A A A A G$ GAAAGAGAAGGCCAGGAGGAAAAAGCCAAAAGGCCCAAGGGA GAAGGCAGGGGGGAAAAGGACAGAAGAGGCAGGAAAAAAAAG
 G G A A C G A G G G G A A A A A G A A G G A A A A A A A A $\mathcal{A} G G G G G G G G G G G G$ G G G G GACAAAAACGGCAAGAAAGGGAAGAGAGGGGGGGAGGA AGGAGCCAAGGAGCCGACCCCAAACAGCCGGCCAAGAAAGEA G GAA $A \operatorname{G} G C A G G G A G G A C G A A A A C G G G G A G A A A A A A T T G G G A C$ CAGGGGGGACCGGGAAGGGGAGGCAGGCCCCCCAAAGGGACC CACAGCCAAAAGGCCGGAAAGGGGGAAAAAAGGGGAAGGGGA A A G A A G G A GAA $A$ A A A G G G GAAACCAAAAGGGGGGGAAAGGGGA GAAGGGGCAAAAAGGGGGGGGAAGGAAAAAGAAAAGGGAAGA G G GCAGCAGGGCCAACCAAGGGGTTAAGGAAAAAAGAAAGGG GAAGGGGGGCCAGCCAAGGGGAGAGGGAGAAAAGGAGGAAAA A A GAAACAGGAAAGGAATAGGAGGAGCGGAAGGAGGAGAAAG G GAAA AA $A$ A A G GAAAAAAGAGGGAAAAGAGGGTTGGGAAACAA A GAGGCCAAAAAAACAAGAGGAAAAGAAAGGCCGGAACCGGC CAAAAAAAAAAGGGGAAAAGGAAACGGAAACAGAAGGGACGT TA $A G G A A A G C A G G A A C C A A G G G G G G A A C X A A G G G G G G G A G G G$ A G G A G G G A GAGACTAAAATAAAAAAGGCCGAAGGAACCGBA ACCAAGAGGTTCAGAGGAAGGAAAAAAGGAAGACCAGAAAAA A A A G G G G A A G A A A A A G A A A G G A G C A G G G G G A A G G G G G A A A A C AGGAGCCAAAAGGAAAAGGGGGGAAAGTTGGCCAGGAAGAGG A G G GACCACGGCCGGAAGGAAGGAAGAAGGGGGAAAGABAAA GAAAAGGCCAAGGCCAAGAAAGGAAGGAAACAGGAGACBCAG
 A A G A A G G A G A G G G G G G GCC G G A G G GAGGAAGCAAGGA
 GAAAGACGGGGGGGGACGGAAAAAGAAGGCCGGAAAAAAAAG G A A A A C A G A A T G G G G G G A A G G G G A G A A G A A GC CAAAAAA A G A A G GAC GAAAAA $A$ AAAGCCAATTAGAACCAAGGGGAAAGAAAAG GAAGGGACCGGAAAGACAAAAAAGAAAAAAGGGGGGAAAAAA A A G G G A A G GCCAAAAAAGGGGAGGAGGGGAAGGGGGGGGCCC $C G G C C A A A G A G G G C C G G A A A A C C A A A A G G G G A A G G A A G G G G G$ G G G G G G GCCAAAACCGGAAAACCAAAAAAAACCGGGAAAAAA A G GCCAATTGGGGGGAAAACCGGAAGGGGCCAAGGGAAAGGG $G C C A A C C A A G G A A G G A A A A G G G A G G A A G G A G A A G G G A C C G B A$ A G G G A A A A GAACCAACCGGAAAAAAAAGGGAGAGAAAGBGGA AAAGGAAGGGCGGGACCAAGGCCGGGGAAAAAAAAGAAAAAA GAAAAAAAGGAAAGGGGAAGGGGGGGGAAAAAGGAGGAAAAA

 $G C G A A G G G A G G C A A G A G A G G A G G A A G G A G C C A A G G G G G G G G G$ A A G G G A A C A A A G G G G G G G G A G G G C A A G C C A G C A A G G G G A A A $G$ G G GAA A G G GAACAGGTTAAGGCAGGGAAAAAGAGGGAGAGAG A G G G G GACACCAGAAGGAAAGAAAAGGACAGGGGGGGAGCCG GAAGGAGAAGGGGAAGGGAAGAGAAAACAACCCAAAGAAGEG G G G T T A A G G G G G A G G A G C C G G A A G G G A G G A A G A A A G G A G G G G A GAGGCCAGGAAGGAGAGAGAGAAGGAACGAGGBAAAAAGGA


A G GAACCGGAAGAGGGAGGTAAAGGGAAGGACCGGGGAAAAG A G G A G A G A A G G A A G A G G A A A G G G G G G G A G A A A GAC GAAA A A A G G G G A A C C G G C C C A A A G G G A A G G A G G C A A A A A A G G G A G G G A GAGGAAGGGGGAGGAGGAAGGAAGGACAGGGAAAAGACAACA A GAGAAACCCCGGAAGGTTAACCAGCAAAGGGGAAGAAGACA AAGCCGGAAGAAGAGACCAAGGAGGGGAGAAGAGAGAAGGGG G G G G G A G C C C A G G G G G G G G G A A G G G G G G A C C G G A G A A G G A A A G G GAAAAGAGGGGGGAAGGGGAAAAAAAAAAAAGGACAAAAT TGCAGGAACACCCAGAGGGAAGGCAGGAGAAGAAGGGAACAC C GGGGAAGGAAAAGAAAGGAAAAGACCAAACAAAAG GAATAA ACAACGGCAGGGGGGGGGAGGCAAAAAAGAAGGAAGGAGAAA A G G A G A A A A G G G G A A A A A A C C C GCCAGAAGGCCAAGGCAAG G A A A C C G G A A G A GAGGAGAGGGGGGAGGAAAGAGGA GAAA G GA A AAAGAGGGAACCCAGGCAGATGAGGAAAAGACCAAAAAACCG A GAGGCAGAAGCCGGGGTAGGAAGGAGAAGAGAGGGGGGGGA GAAAAGGAGCCGACCGGAAAAGGGAGGGAAGAGAAAGATGGA C GA A G GAGGACTTCCGGCCAAAGAGAGGGGAAGAAGGAGABA G G G A A A A A G GCCAGGAAGAACGGGGGGGGCAAAAAGAAGAAG $G C C G G G A A A A A A G C C G A G A A G G G A G G A A A A A C C G A A A A A A G C$ CAAAGAAGACCAACAAGGGAAAACCCCAAAGAGAGGAGAAGA G G G G GCCGGAAGGGGAAAAGGAAGGGGAAAACCAAG GAAAAC A A A G G A G A A A A A GAGAACAGGGGGGCCGAGGAAGAAAGGCCG GCCGGGGGGCCAGAAAGAAAAGAAAGGAAAACCCCAAGBCCA A A A A A A A G A GAGGAAAAAAAGGACCGGAAAAGAAAGGAGAAC CA $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAACCGCAAGGAACAAAGAGAAAAAGGAAGGGGG G GAGGGGAAAAGGCCAAGGGGAAACAGCCAAAACAGGGGAAA GAAGGAAGGAAGGGGGGCGGAAACAAATTCCAAGGCCAAAAG A A G A C A A A A A A G G A A G G G G G G A G G GACGGGGAAAA G GAC G G A AAGCCGAGAAAAAAGAAAAAAAAAAAGAAAAGGAAAAAAGBA $A C C A A T T G G A A C C A A A A G G G G G A A A G G G G G A G G C C A G A G G G G$
 $C G A A A A A G G A A G G G G G G A A G G G A G A G G A A C C A A G G G G C A A A A$ A GACAAGAGGGGGAGCCAACAGACACCAGGAGGAAAAGAGAA G G A G G A A G G A A G G G G G G G G A A A A A A C CAA G GAA G GAAAAC C C CAAAAAAAAAAGGGGGAAACCGGAAAAAAGGAAGGAACACCG
 GAGGGCCAGGCGCACGAACGGACGGCGGGAGAACCCCAAGGA ACCAAAAGGAACCGGGGAACCGGGGAGGGAGAAGGAAAAAAA A GACCAGGAAACAAAAAAAAAAAGAGGGGACGGGGACCCCCG A A G A G G A T A G G G G A G G G G A A A A G A G C A G G A T C C G G G G C C G G G A G G GAAAAGGGAAGGAAGGAGAAAGGAGAAAGGAAGAAGGGA G G A A A G G G G A A G G G G A A A A A $\mathcal{A} G G A A A A A A G A G A G G G G G G G G G$ G G GAAAAAAGGAACCGAGGGAGGGGGGCCGAGACCGGGAGAA G G A G A A A G A A A A A A A GAGAAGAACCCCAAGGAA GAAGAACAA A G G A A A G A A A G G G G A A A A G A A A A A C C C G C G GAC G GC CA G GA G GAAGGAGAAAAGGAAAAAGGGAAGAGGAAAAAGGGAGGAGAG A G G A G G G G G G G A A C C A A G G GA GAC C G G A A G G G A G G G A A A A G G GAGGGAGCCTTGGGAAAAAAAAAAAGACAGACCGGAGGAAAG GAAAAGGGGAAGGAAAAGGAAAAAAAGCCGAAAAAAAGAGAA C GAGGAGCCAAGGGGAGAAAACCAGACAGGGGGGAAAAAAAC CACAGGGAGAGAAAGGGGAGGGAGACGACACAGGGGCAGCAG A GAGCAACCGGAAAAGGGGAAAAAACCAAGGGGCCGAAAAAA A G G A A G G A A G G G G A A G G A A A A A A G GAA $A \operatorname{AGGGAAAAGGCCGBA}$ AAAGGAAAAGGCCGGGGAAGGAAAATTGGGGAAGGCCGGGGA AAAGGGGAAAAGGGGGGAACCGGGGAAAAGGAAAAAAGAAAA AAACCGGAAGGCCGGAAGGGGAAGGAAAAGGAAAACCAAGGG GAACCGGGGGGAAAAGGGGAAAAAAAAAAAAAAAAAAAAGGA A A A G G G G G G C C G G G A C C A G A A T T G G A A G G GAGGAC GAA G G A A $A C C A G A C A G G A A G G A G G G G G G G G A A G A G G A G A G C C G A A G A G C$

C GAAAACAAGAAACCAAGGAGAAGGCAAGGAAGCCCCAAAAA
 C GAGGTAAGAAAAGGCAGGGGGAAAGAAAGGGGAAAGAAAC G GAACCGGAACCGGTTTTGGTTCCGGAAGGTTCCAAAAGAAAC $C G G C C A A A A G G G A A A A G C C G A A A G A G G A G C C C A A A G A A A A G A$
 GAAAAAGCCACCAGGAAGGAAGGGACCAAGAAGGACCAGABA AAAGGAAAAGGAAAGGAGAAAAAGAGGGGAAAAAAGGAAAAA GAAGGAAAAGGAGAACACCACGGAAGAACGACCACAGAAAGAG G G G G GCCGGGGGGAAAGAAACCCGGGGAGACGGAAGGCCGGA A A A A G A A A G A G G G G G G G A A G G G A G G A A G A G G A A G A A C G G G G G GACGGCCGACAACAGGAAAGGCCGGGGAGACAGAAGGAAAAG G G G A A G A A A G G GAAAAAAAAAAAGAGAAAAAGCAAAAGGAGGG G G G A A T TA G G GCAG GAAAAGAAGGGGGCCGGCCAAAAAAGGA AAAAAAAAAAAGGACAGACGGGAGAAAAAGGGGAAGGGGCCA GAAAAAGAAGGCAAAAACCAGTAGGAAAAGGGGGGAGAAGAA

 GATGGAGCAGGGAGGAAAAGGGGAAGGCAGGAGAACCGAAGG GAAAAAACCCCAGAAGGGGGAGAGGGGAGAGGACCAGABAAG GAAAAAAGGGGGGGAGGAGGGGGAGAGGGAGGGGACCCGGGG G G GACACAGGGGAAACCGGCCGAAAAGACGGGAGGGAGAAGC G G G G G A A $\mathcal{A} G G G G G G G A A A A A A A A G G A A G G G G A G A G A G C A A G G$
 GAGAGACGGGGGGGGAAAAAAAAGGGGAAAAAGGAGGCCCCB GAGGAGAAAGAAAGGTAAGAGGGGGCCGAAACCGGGACAAAA
 C T T G G GA G A G G A A G A G G A A A A G G A A G G G G G G A G G G A A C C A A A G G GCAA $\operatorname{A} A A C C A A C C A A G G C C G G G G G G A A A A G A G G A G A A A A G$ $G C \subset A A G G G A A A G G A G C A C C A A A A G G G G A G G G G A G G A A A G A A G$ G G A A A A A G GAAAC G GAA G GAAAAACACAAGAAGGCAAGGGGGG AGGGGCCAAAAAAGAAAAAGGAAGGAAAGGAAGAGACGGAGA A G GAAAAAAAAAAAGGAGGAAAAAAGGCCAGGGAAAACAAAG G G G G A A C A A G G G G G GCCA G G A C C G A G G G A A G G A G G GA G G G G G A A A G A A A $\mathcal{A} G G G G G A G G A G G C G G G A G A G G A A G G G G G A A A A A A A$ AGGAAAAAACAAGAGAAGGAAAAAGAACCCCCCGAAG
$A G C C G G A G A A A A G G G A C A C A G G G G G G A A A G A A G A G G G A C A G$ GAAGGCAGGCCGGGGGGAGAAGAGGGACAGAACGGGGAAAAAA A A A C A A G A CAGGGGGGGAGGGGGGAGAAAAAGAGAAAAACAG A G G GA $\operatorname{A} A C \subset A G A G A A A G C C A A C A G A G G G A A C G G A A A A A G G C A$ TGCAAAAGAGAGGGGGGCCAAAAGGGGAACGGGAAGACAACC

 GAAAGGGGACAGGAACCACGCAGAAAGCCAGGAGAAGGGGAA GAAAAAAGGGGAGTAGAGGAACCGAAAAAAAAAGGGGGAAAA ACCAAAAAATTGGCCAGAAAAAAGGGAAAAAGGGGGGAACAC A GAA A G G C C G G A A G GAAGGAGCAGGGGGGGAGGAAAAAAAAA
 GGGAAACCCGACCAAAAAAGAAGCCGAGGAGAGCCGAAAGAA G G G G A G A A G G A A C G G G G G G A A A A G G G G A A G GA G A A C C A A G A A A A A CAAAAATTCCAGAGGGAAAGGAAGAAGGAAAGAGCAGAAA A G GCCAAGGAGGAAGCAGGACGAAAAAGAGGGGAAGCGAGAAG G GACC GAA $A \operatorname{AAAGGGAGGAAGGAGGGAAAAGAAACCAAGAAGA}$ GAAAGAAAAAAGGGGAGGGCCGAGGAAGGAACAGGAAAGGAG C G G G G G G G GAGCCAAAAGGGGAAAAAACCBAAGGGAAGAACC CAAAAAAAAAGAAGGCCCAAGAAGGAAAAAAAGAAGGGAAGA C G GAACCCCAACAAGAGGGAAAAGGGGAAGGTAAGAAGAGAG G G G G G A G A A A A A A G G A A A A A C C C G GAGGGGGGGGGAAAAGAC CAAAAGAGGGGAAGGAAGAGGAGGAAAAAAGGGAAGAAACAA

GCAAGAGGGAAGGAGGGCAGGGGAGCAGGGAGGAAAGAAGGG
 A A GACAGAAGAGAAAAGGAGAAGGAAGAAAAACACAAA GAAA A GAGGAGGAGGAAAAGAGGGGAGGGGACCACACGAAGACAGA A G GAA $\operatorname{A} G A A A A C C C A A G A A G G A A A A A A G A G A A A G G G G G G G G G$ G GAGGAACCAGCAGGAGGAAAACGGAAAAAAGGAAAGAACAA A G G A A C C G G G A G G G GAAAAAAAGAAACCCAAAAGGAAGATAC C G A A C A A A CAGGGGGGGGAGAAGCCAAAGGAAGCCGGCGAAC C C C A G G G C C G A G G A G G G G G G G C C G G A G G G A G G A A A A G G A A A $G$ GAAGGGGAGAGAGACAAGGGGGGGGGGGGAAAAAAACGGTXA A G G G G A A A A A A G G G GCCGGGGCCAGGGAGCAAGCAGAACAAA G G G A A G G C C G G A A A GAA A G G GAA A A CACAAGCAGAGGCAGAA GACAGCCAGAAAAAGAGAAGGGGAAGAGGGAAGAGAGGAAAC C G G G G A A A A G G G G A CAAA A A A C C C C A A G GAA A G GA G GA G G G C $A C C A G A A A A G G A A A A G G G G A A C A A G A G G A A A A G A C G G A G G G G$ $G C C A A A G G A G G A G A G A A A C G G G A G A A G G G C C G G G G G A A A G G G$
 AA $\operatorname{A} A A G G C C C C C C G G G G A C A A A G G G G G A A A A A A G G G G G A G G G$ GGGACGACAACAAAGAAAGAGCAAGGAAGAGGGGGAAAAAAG
 A G G G GAA $A G G G G G A A A A A A A A A A G G G G G G G G G G G G A A A A A A A$ A G G A A G G A A G G G G G G G G G G G G C C G G G G G G G G A A G G G G A A G $\mathcal{A} A$ A A A G G G G A A G G A A G G G G A A G G A A A A G GAAAAGGGGCAAAAAA


 AAAGGAACCAGGGAGACGGAAAAGGGACAAAAAGGGGCAAAG $A G C G G G G A C G A G G G G G G A G A A G A A A C C A G G G A G A G G A G A G B A$ A GAGGGGGAGACCAACAGGAGCCGGGGAATTGAGGAAAAAGA AAAGGACAGCCAAGGAACCCCAAAGAGGAGGGAAAGAAAAAG $G C C A A G A C C A A G G A A A A A A A A A A A A A G G A A A A A G A A G G A A C A$ $C G A A C C C G G C A A G A A G A G A G G G G A G C C A A C C G A A G A A A G G A A$ G G G G G G G A A A GCAA A G GAGGGCCGAGGGAAAACAGGACAA GA G G G G A G G G G G G A G G G C C G G G A G G G A C C A A A G C C G G A G G G C C G G G G A A A A A G G G G G A G G G G G A A G G A G A G G G A C G G G A G G A C G G A $A C C A A A A C C A A G G G G A A A A A A A A G G G G G G A C G A C A A G A A G G A$
 A A G GA $A$ A $\operatorname{A} G A G G G G G G G A A G G A C T A G G A G A C G A A G G G G A A A G$ G G G A A A A A G A A A A G ACCAAAAGGCCAGAGAAAAAAAAAGAGG GAAGGAAAAAGGAAAGGGGGAAGAGGAAACGAAGGAGACAAA A G G G GAGGGGGGAACCAAAGGCAGGGAGGGAAGACAAGAGAG ACAGAGAAAGAGAGGAAGAAGCAGGAAGGAAAAAAGGGAAGA AGGAGCCGGAGAGGAGAAAGAGAAGGGGAGAAGAAAAGAAAG A G G G G A A A A G G C A A G A G A G G G G G G G G G A G A G G G A A G A G A G G G G G G G G A A A A A G G G A GAGGGGGCCCCCCGAGGGAGGGAAACC G A A G G G G G G A A A A A A A A A A GAAA A A G GAAAAAAA A GAA GAGAA A G A G G A A A GAGAGAAGAGGAGAACCGAAAAAAAGAAAAGGGA C GACAGAAAGGGACAAAGGGGGGAAAAGGAAAAAAGAAAGGA A A GAACACAGGGGGGAGAAAAAAAGAGGGGGAAAAAACAGAA CAAGAAAGGGGCCGGGGAAGGGGGAAAAGAGAACAAGAAACB G G G A A A G A GCA $\mathcal{A} G G G A A G A A G G A G A A A C C G A A A A A G A G G G G G$ GAGGGCAA G G A A GAAGAGGACAGGGAGGAGGGAGGGACAA G GA A G G A G G A G G A C G G A G G A A A G G G A G A G A A G A A G G A C G A G G C A G GAGGAGGAAGGAGCCAGGAGGAGAAAAGGCAGGGGGGAACAA AAAAACCGGGAACAGACAGACGGGGAACCGAGGGAAAAGAAG GCCGAGGGGCAAACAACAGAGACGGGAAAAAAGACAGAAAGA $G C A A G G G G A A C G G A G A G G G G G A A C C A G A A G G G G C C C C G A A G G$ $G G A C C G G A G A A A G A A G G G G G G C C A A A A C A G G A A A A A A G A A A A$ $G G A G G G G G G G G A G A G G A G G G G A G G G G A G G C C C A A G A A A A A A C$

C G GAAGGGGAAAGGGGAAGCACAAAGGGGGAAAGAAACAAAG A A A A A A A G GA GATGGGGAAGGAAAAAAGGAGAAGGAAGACCC C CAAA $A \operatorname{AGGGAGGACCGGGGGGAGAAAAAAAAAAAAAAAAGGA}$ GAGGGAAGGGGAGAAAGGGGGAAAAGGGGGGAGGAGGGAAAG GAAAAGGGGAGGGAGAGAAAAAAAAAAAAAAGGAAAAGGGGA A G GAA A GCCGGAAAAGGCCGGAGAAAGGGGACAAACCGGGGA $A G G G G G G G G G G G G A A G G A A A A T T G G G G A A G G A A G G G G G A A G A$ $G G A A A A A A A G G A A A A C C G A A G A G G G A A A G G A C C A A C C A A G G G$ GAGAGAGCCGGGGCCGGGGAAAAGGGAAAAGGGGAAGCAGAG GAAAACGAGAAAAAAAACAGAGAAGGACAACAGGAACAAGGG A A A A A A G G A A GAGAAAGATAAAAGGAGAGGAGAGAAAAAGGG A A G G G A G G GAA A G G G G A GAAGCCGGAAGGAAAAGAAGAGGAA G G G A A A A G G G G A G G A G G A A G A A G A GAAA $A \operatorname{A} G A G G G G A A A A G G G$ G GAAAACCCGAACAGGGGGAAGGAGCCAAATAGAGAAGAGAA ACAGAGAAGGGAGAACCAGGAAGAGAAGGGGGGGGGGAGGGC CAAAAGGCCAAGGGAAAGGAAGAAAGGAACCAAGGAAGAGGA A A A G G A A A A A A A A G GAAAAAAAACCCCACGCCAAAGAAAGBA A A A G G GAGGCAAAGGAAGGGGCCGGAAAAGGTAACAGAAAGC CAAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGAACAGGGGA A G G G GAACCAAGGAAGGGGCCAAAAGGCCAAAGGGAAGAAAG G G GAGCCGCGGACAGACAGAAAAAAGGAAGGAA GAGGCCGGG GAAAGGAGGGAGAGGCAAAGAAGAGGGAAGGAAGGAAAACAA AAAAAAACCGGGGAGAGGGAGAAAGACGGAAAGAAAGAGAGA A A A G G A A $\mathcal{A} G G G G G A A A A A G A G G G A A A A A A G G G A C C A A G G G G G$ GGGAAGGAAAAAAGGAACAAAGAGGAAGGCCGCAAGGCACAA G G GAAAA A G CAAAAAAAAAGGGAAAGGGAACCAGGGGGGGGGG
 G G G A A G G G G A A G GCCGGAGGAGGAGAGGGCCACGAGAAAAAG GAAGGGGGGGAGAAGAGAAGAAAAAGATAAAAGGGACAGGAA GAGGGAACCACAGAGGGAGGAAAGGAAGGGAAGAAGGGAGAG GACGGAAGGAGAGGAAAGGAGCCCAGAAGCCCCAACCAAAAA A G GAAAGGGAAGAAAAAGGCGGGAAAAAAAAGGAAAAGAAAC CAACCCCGGCCAAGGCCAAAAAAAAAAAAGGGGGGGGTTGGG GAAGGAACAGAGGGGAGGGAACAGGGGGAACGAAGAGGACCA G G G A A A A A A A G G GCACAAAAAAACCAAGAATCAAGAAGACCA A G G G GCCAGAGAAAGAAAGACAGGGAAGGGGGAAAGA
AAGGGAAGGAAGACCAAGAACCGAGGAGGGAAAAGGGGGGG GGGCCAGCCAACCGGAGCCCCCCGGGAGGAAAGAGAACAAAAA

 $A G G G G G G G G A T G G A G G A A A A G A G G G G G G G G G G G G G A A A A A A A$ GAGAGCCGGGGAAAAAAGGTTGGGGGGCCAACCAGCAAGGGG GAAAACCAAAAAACAAAAAGGGGAGGAAGAGGGAAGAAGAAA A A A G G G G A A C A A G A G G GAGAGGGGGAGAACAGAA GACAAA G G A A G G G A A A A $\mathcal{A} G G G A G A G A A A G G G G G C C G G A G G G G A A A A A G A A$ A G A A A GAACGGAAAAAGGGAAAAGGAAGGGAGAACAAAGAAA G G G A A GCGGGGCAGGGGGGAAGAAGGAAAGGAAAAGGAGGGG G GAAATTAAGGAAAAAATTAGGGAGGGGGAGGAAAAAAAAAG GTTCCGGAAAAGGAACCGGCCAAGGGGGGCCGGAAGGAACAA AAAGGAAGGAAAAGGAAAAAAGGCCAAAAGGAAAAAAGAAAA A A A G G A A G G A A A A A A A A A A A A G G G G G G G G A A G GAA G G G G T T G GAAAACCAAAAAAAAGGCCAAAAGAAAAAGAAAAGAAAAAGAG
 ACCGGAAAAAACCGGGGGGGGAGGGGGAGCAGAGGAGAGCAT TCGAAAC GAGAACGAGAAAAGGGAGGGGGCCACA GAGGGGAG $A C C G A A G G A G G A G A A A G C C G G A A G G A G A A G G A G C C A A G G C C G$ GACCCGGGGAGGAGGGGAAGACCGAAGAAGGGGGGGGAAAAG GAAAACCGAAGAGCAGAAAAAGCTTGGGGAAGGGAGGCAAAB GAACGAGGAGGAAACAACCAAAGAAGGCCACCAAAAGGAAAA

C G G G G G G G GAAGGCCAGCCCCAAAACCAGGAAGCCAAAAAAA GAAGGAAGGGGGAACAACCAAAGTTAAGGGGAAGGAAAAAAC CAAAAGGGGGGAACCGGGGCCAAAAAGGAGGGGGGCACACAA CAGCAGGGGAGAGGGAAGGGAAACCGGGGGGAAGGGGGAAAA A A A A A A A A A G G G GAAGGAAAAAACCAAGGGGGGAAAAAAG AA AAAGGAACCGGGGAAAAAAGGGGAAAAGGAAAAAAAAAAAAC CAAAAAAAATTCCGGAAAAAAAAGAGGAAGGAGGBAATAGEG GAAAAAGGGGAAAAGGGGAAAAAAACCGGCCGAACACGAGGG GAAG GAA $A \operatorname{A} G A A T T G A A G A A A A A A G G G G A A A A A G G G G G G G C C A$ C GAGAGAGAGAACGAAAAAAGAGAAAAGGAAAAGGAAGGGGG A GAGAAGCCGAGGAAAAGAAAACCCAAGGAAAAGGGGGACAG A G GAGAAGGAAGAAAAAAGCAGCAAAAAACCAAA GAGAGGGA A A CA $A \mathrm{G} G \mathrm{G} G \mathrm{GAA} \mathrm{A} G \mathrm{G} G A A A A A A G G A G G A A G A G A A C G A C C A A G G G$ G G G G G A G C C G G G G G G G GCCAGAGAAAAGAGGAAGAGAAACC G GAAAAACGGCCAAAGGGGGAAGGCCGGGGGAGAAGAACCGBA A A G G GCCGAAGGGAGGGGAGAGGGAGAGGCCCCAAAGGGGAA A G G G G G G T T C C A A G GAAAA A GAA A A G G C CAAAAAAAA A A A A A AAAGAAAGAGGAAGGGAAACCGGGGAGAAAGAGGGCACAGAG $A G G G G A G C A G G G G A G A A G G G G G G A A G G G G A A A A C C A A A G A G G$ A A A A A A A A C A G C A G G A A G G A C G G A G G A G A G G G G G G G G G G G G G AAAAAGGAGACAGGGGGAAGAGGGGGGCCAAGGGGGAAAGGG
 A G GCAACGGGGCCGGGAGAGAGAGAAAAACCAAACGAGACAG A A GAA A A G GAAAGAGAGCCGGACAACCAGGGAAAAAAGAAAG A A A G A A C A G G G T T G G G G A A A G C C A A G G G G G G A A A A G G A A A A A A G G A A A A G GCC C G A A G G G G G G A A C C G G C C G G G G A A A A A A G G A A A A A A G G A A A A A A G GCCGGGGGGCCAAGGAAGGCCAAGGGGC
 $A C C G G G G A A G G A A A A G G G G G G A A G G A A C C C C A A A A A A A A A A G$ $G C C G G A A G G C A G G G G C C G G G G A A A A A G G A A A A A A G A G A G G G A$ G G G A A G G A A A A A A A G A A G G A A C C G G G G A A G G G A C C A A G G G G A AAAGGCCGGTTAACCGGAAAACCCCAACCGGAAGGAACCGGG G G G G G G G G A A G G G C C G G A G GAAAAGAAAAGGAGCCGGAAGAA G A A A A A A G G G G A A G GAA $A \operatorname{ACC} C A G G A G G C A A A G G G G G A G A C C B$ A A G G G CAAA A G A A A A G A G G A A G G A A A A A G GAGGG GAAAA A G G GAAGGGGAAAAGGGGGAAAAAGGGGGAGAGGAAGGGGGAAAA A G G G GCCGGAAAAGGAAAAGGGGGGAAGGCCGAGAAAGAGGG CAAAAGAAAAAAAGGCCAAGGCCGGGAGAAAGGCCAAGAAAC C A G G G G G A A G G A A G G G G G G G A A G C C A C G A G G G G G G G G G A G G G G G G A A G GAAGGCC GAAAAACAAAGAAGAGAGAGAAGAAC GAA $C G A A A A G A G A A A A G A G G A A G G A A A A C A A G G G G G A A C C A A G A G$ GCAGGGAGAAAAAAAAAGGAGAAACCCACGGAAAAGGGAABA GAACAAGAGGGGGAAGGGGAAAGGAGGAAAGAACAGAAGAAA G G G G G A A A A A C A A G C G G GAGAGACCAGGAAAAAGGGGGAAC G A A A G G A A A A A A G G G A A GAGGGGGAGCCAGAAAGGGGGCAAAC CAGGACCAAAAGGGGAAGGAGAGAAAACCGCAACAGAAGAAG GAAAAAAAGGACCAAGGGAGGAAGAGGAGAACCGGGAAGAGAG A A GAAAGCCGACCACAGAGGGGGGGGGAAGGAGAGAGAAAGC CAGGGGGAGAACCAGGGGAAAGACAAAAAAAAAGAAGAAAAG A GAGAAACCAACCGGAAAAGGGGAAAGAGAGAAGAAGCAAAA C G G GAA G GAAAAACAAAAACAAAGAGAAGAAACBAGAAAABC G G A G G A A G G G G C C G G A A G G G G G G G G A A G G G G G G G G A A G G A A $\mathcal{A}$ A G A C A C C G G G C G G A A G G A A GAGGCCGGTTAAAAAA G G CAA GA A GGAAGAGCCAACGGGCCGGGGAAAGGAAGGGGGGGAAAAAGA C GAAAACAGCCAAGGACAAGGAAGGGAAAAGAACCAGGAGAG G G G G G G G C A G G A A A C C C G G G G C C A A G G G G G G G G C C G G A A G G A A G G G A A A G GACAA $A \operatorname{A} \operatorname{A} A G A C G A A G G G G G A A A C G G G G G A G A G A G$ A A A A A G A G G A A G G A ACCAGAGGGGGCCCCAGGGAAAAGAAAA AAAGGGGAAAAGGAAAAGGAAAAAAAAGGAAGGGGCAAAAAA

AAAGGGGCCAACCAAAAGGAAGGAAGGGGGGAAGGGGGGGGA A A A G G G G C C G G A A G G A A A A A A A A G G G G G G A A C C A A T T G G G G C CAAAAGGAAGGAACCGGAAAGGAGACGAACCGGGAGGCCGGG GAAGAAAAAACCAAAAAAAAGGGCCGGGAGGCCCCCCCCAGA AAAGAGGAACCAGGAAGGGGAAAAAAGAAGGAACCAGGAAGA A A A A A A A GAGGGGAAAAAAGACCCCAGGAGAGGCCAGAAAAC C G G A A A T G A GAAC G GAGGAAAGAGAGGAAAGCCAGAGAAAAC CAAGGGGGGCAGGAGAAACGGAAACAAGAGGGAGAAAGAAGG G G G G G A G A A A A A A G GCCAGAGACCCAGGAGGCAGAAAAGGGA A A TAGGGCAGAGGGAGGGGGAAAGGAGGGGAAACCAGAAGGG GAGACAGGGAAAGAAGGGAGGGGAAAGGGAGGAGCGAGGGGA A G G G G C A G GAAAAAA A $A \subset G G A A G G G G G G G A G G T T G G G G G G G G A$ A A A C A A G G A A GAA A G G GAGACGAAGAGGGCCCCCCGGAAAAA A G A A A A A C C A A A A C CAG GAGGGGGGAAGGACGGGGGGAACAC G GACCACCCAGGAGAAAACGGGAAAGAGGGAGGGGAGAGGAG GCGAAGGACAACCAGAAGGGGAGGAGAGAAGCAAAGACAAGA C G G A A A G A A G G A G G GCC G G GAAAAAACC G G G G G GA G G G G GA G C C G A A A G G A A G G G G G GAGGGGGGAGAAGAAGGAACCGGAAA GA $A A C G A A G A G T A C A G G G G G G A C G G A A G A G G C C G G A C A G A G G G G$
 GAAAGAAGGGAGGACGGAAGGGGAGAAAAGAAGAAGAGGCCA ACAGAAGGGGGGGGGGAAGGGAGCCAACCGACCGGGGACAGA A A A A A A A G GAGAAAGACGGCAGGGAGGGGCCGGAGAACAAAG G G GCCAAAAAAACGGAGAGAAAAAAGGGAAAGGAA GGGGGGG GAAGGCAGAAGAACAGGGGAAGGGGAAACGAAGGAAAAGGAA A A A A A A A G G G G G G A GAGGAGAAGAGGGGAAAGGAAA GAA G $A \operatorname{A} A$ GAAAAAAAAAAGGGGGGAAGGAAGAGAGGGGAAGGGGAAACC A A GAAAGAAACCCAAGGACAGGGAAGGAAGGGAAAGAGGTTG GAAGGAAGGAGACGGGGAGCCAGGAGAGGCAAAAGAGGAAGA GAAAAAAACCCAGAAGGAGAAAAGCCAGAAGAAGGGGGGGGG GAAGGGGAAAAAACCAGGAGAAAAACCAAAAGAACAGCCGGC A G GAA A GAAAAAGGACAGGAAGGGGGGCCGAGGGAAGAAGGG
 GCC $C$ G G G G G G G A G G A C G G A G G G G G A A A A A A A A G G G G G G A A C C A A A G G G G A T T A G A A A A A GAA $A \operatorname{GGGGCCAAAAAAAAAAGGGGAGG}$ G GAAAAAAGAGGGAGAGAAGGAAGGGAGACAAGGGAC
GGCCAAAGAGGAGGCCAAAAAAGGTAGGAAAAACACGACCG A GCAACCAAGGGGAAAAAACCGGGGGGAAAAAAGAGAGGAGC AAAGGAGGAAAACAGAGGACCAAAGAACAGGGAGAAACAGAA GACGGAGAAGGACGAGCCAGGAAAGGAGAGAAAGAGGAAAAG AAGAAGAAACAGAAGAGGAGGAAAAGGGGAAAAGGAAAAAAA A A A A A A A CA $\operatorname{A} G \mathrm{G} A C \subset A G G A A A G G C C A G A A A C G A A G G G A A G B A$ $A G G G G A A A G A A G G G G G G G A G G G G G G G A G A G A A C A G A A A A A A G$ G G GAGACAAAAGGGGGAAAAAGGGAAAGGAAGGAGAAGACAA A A A G G GAAA A G A A G G G GAAAAAGGGAAAAAAAGGGGAA GACAC
 A TA A G A A G G G G G G G G G GCAAAAAGGGGCCGAGAGGAACAAAA G GAGGGGGGAAAAGGAGGAAAGGAAAAAAAAACAAGGACGGC CAAAAAAAAAAAGGGAGGGACGAAGCAGGGGAGGGAAGGGGA A G G G G G G G GAA $A \operatorname{G} G A A C C C C G G G G A A G A G G A G A A G G G G G G C C A$ AAAGGGAAAAGAGGGAACCGGAGGGAGAAAACBACAGGAGGG GAAAAAAAGAGAAGCAGGGCAGGGAGACAGGGGAAGGGGGGA A A G G A A A C C A A CACAA GAGAGCGAAAAGGGGAAAAGGAGAAA AAAGGTAAGGGGGGAGGAAAGGAAGGAGAACGACCGGGAAAG GCCGGGAGAAGAAAAGGGGAAAAGAGGGGCAGACCTTAAGEG G G G A A G G G G G A G G G G A A A C G A G G G GAGGGGGGGGGAGAAG G G GAGAAAAAGCCAAAAGGGGGGCCAGGGAGAGAAGGAAAAGAC C C C C C G G A G G G G G G G G G A A G G C A A G G G G G C C A G A G A G G G A A A $A G G G G G G G G G G G G A A A A A A G G G G C A A A G G A G G G G G G G A G A A A$

A G G G G G G G G G G G G G G A A A A C C C C A A G G G G G G G G C CAAC C G G G GGGAACCCCCAGAGAGGGACAGGACAAGAGGGGGAAAGAAGG $G C C A A G G A G A G A A C C G G A A A A C C A A G G C C A A A A C A A G G G T T G$ G G GAAGGCCGGAGCCCCGGGAGGAACCAAGGAAAAACAGGGG G G GAA A A GAGGAAAGAAGGAAAAGAAAACGGAAAAAGGAGGG GAAGAAGACGAGAAGGAAGGGAAAAGAAAGGGGACGAAAAAG G G G G A A G A C G A G G G A G G A G A A G G G G A A C C G A G G G G G G A G A A G GGGAACCACAGGGAAGCAGGGGGAGAAAAACGACCAGAAAAG A A A G G A A A A G GCCCC G $C$ G G G GAGGGGGGCCAAAAAAAACAAAC C G GAAAAGGAGAAAACCGGGGACGGAAGACCGGGAAAACGGC
 AA $A \operatorname{GA} A G G G A A G G G G A A T T G G G G A G A A G G A A A G G G G G C A A A G$ G G G G G A A G G G G A C G A A GAC GAGGAACCAACCGGGGGAAAGAG $A C A A G A G A A A A G G G G G G G G A A G A G G G G A A G G A A A A A A G A A A G$ GAAAAAAAGGGACGGGGAAGGAAATAGCCGGGAACAAAGGGA G G G G G A A A A G G G GAGGAAGGGGAAGGACAGGGAGAAGAACAA A A G G GAGGGAAAGCAACAAAAAGGCAAAGGGCCAGCCGGGGG GAAAGCCGGCCCAAACCGAGGAAAAGGGGAAGGABAAGAGGG GAAATGGAAGGAAGACAGGAAGGAGCCAAGGCAAGACAAAAG $G G A C C G G G G A A A A A A G A G G G A C A G A A A A G A A A A G G A G A A G G G$ G GAAAAGAGAAGAAGACGGGGAACCAAGGGAAGAAAAAGAAA AAGAACCCCCCGGAAACACAGAGAGAAGGGGAGGGGGAAAAG $A C C A G A G G G A A A A G G A C A G A A C C G G A A G G A A A G C C A G G A G A A$ A A A G G G G G A G G G A A GAGACAGAAAGGGGGGAGAGAGAAAAAA GAAGAGGGGAAGACCAAGGAAGGGGGGGGGGAAGGACAAAAC C CAA A GAA $A \operatorname{Ag} \operatorname{A} G A A A A G A G A A A A A G G G G A G G G A A A C C G A A A G$ A GAGGCAGAGAAAGGCCAGGAAGGGAGAAGGGGGAGGTXAAG G G G A A A A G G A A G A G C A A A A A G G G G G G A G A G G G G G G G G A G A $G A$ GAGCAAGCAAGCAGAGAAAGGAGAAGGCAAAAGAGAAAAGAG
 C G G A A A A A A G G A A A A G G G G G G G G C C A G A G A A G G GACAA G G G A ACCAGGGAAAAAAAAGGGGGGAAAGGGGGAGGGGAGAAAAAA A G G G G GAA A C C G G G A G A A A G GAA A G G G GAGGGGGGAGACAAA A A GAGAAAAAAGAGGGAGGGGAAAACCAAAAGGAGGAAACAC A G G G G G G G GAAACACGGCCAGCAGGGAGAAGCCGGACAAAAA GAGGGGGCCGGAGAAGGAGAAGGAAAAGGGGGGAAAGAAAAA A GAGGGGGGGGGGAGCAAGGGAGAGAGGAAGGAGGGGGAGGG G G GAACCAACAAAAGAAAGGGAAGGAAAGGGCCGAGGGAAGG G G G A A G GCCAGAGCAAAGGGAGGCCGGAAGGAAGAAAAGAAA G G A A A G A A A A G G GAGGAAGAGGAAATACCCAGAAAAAAAGBA GAGAAGGGGGGAGAAGACCCCACAAAAAAGAAAGGCCGACAC GAAAAGGAAGGGGGGCCAAGGAGACGGGGGGGGGGAAGAGGG GAAAGCCGGGAGAAAAACCGGAACCAAAAGGAGGAGAGAGAG A G G A G A G G GCAGGGGCCGCGGAACCGGAACACCGGTAAGAAA GAAGGAAAAAAAAAAGGCCGGACGGCCGAGAAAAACAAAGGA
 A G G A A G G C C G G A A G G G G G G G G G G G G A A G G G G A A G G A A C C G G G G G G G G G G G G G G A A A A A A A A G G G G G G C C G G G G G G G G C C C C C C C CAAGGCCAACCAAAAGGCCCCCCAAGGAAGGGGAAAAAAGGG $G C C A A C C G G A C G A A A G G A A G G A C G G G A G G A A G G C C G G G A G G A$ C T TA $\operatorname{T} A \mathrm{~A} G \mathrm{G} G A A C G G A C G A A A G A G A A A A A G G A A A G A A G A G G A$ GAAAAAAAACCGGGGCCGGAAAAAAAAGGAGGGGGAGGAABAA GAGGGGAGGAAGAAAGAAAAGACGAGGGGGGTAAAAGAAAAA A G G G GAAGGCCAAGGGGGGAAAAAGGGAGGAACGGAACCGAT $A \subset C A G G G T A A A G G A A A A G G G G G G A G G G A A A A A A G A C A G A A G G$ G G G G G T T A CAGAAAGGAGAAAACACAAGGGGAGGGAAAACAC C G G G A GACCGACCAAGGGGAAGAGGTTACGAGGAAGGAAAAA $G C A A A A A A A G G G G G G C C G G A G A A A A C A G G G G G G G G G G G G G G A$ $A G G C \subset A G A C G G A A G G G G C C A A G G A A G G C C A A G G A A C A G A A A G$

G G GAA ACAGCAAGAGAAAGGCCCAAAGAAGAAAGGAGGAGAG
 A G G G A G A G A G G G G G G A A A G C C A A A G G G A A GAAA A G A GA GAC C A G GAA $A \operatorname{GA} A G A G A A G G G G A C A G G A A G G A A G A G A G G G G G G G G A$ A G G GAGAA $A$ A A A A A G GAAGGGCGGGGAGAATGGGGAACAAAA
 CAGGGGGTTAAAAAAGGGGCCGGCCAAGGAAAAAAGGCAAAA ATTAAGGGGAATTAACCGGCCAAAAAAGGGGGGAAAAGAAAA A A A G G G G G G G G A A A A A A A A G G A A A A C A A A A GAAA A A A A G G A G AAGACAGCGCCAGGGAACAGAAGCACCAAGAAGAGGAAGGAA C G G A A A G G G A A A A G G G G G G A A G G C C G G G G G G G G G G A A G G A A $G$
 A A A G A A G G G A A G G G A G G A A A GAGGAGGGGAAGGAAACGGGGA G G G A A G GCAAAAAGAGAAGGGAAGGCCAGAAAACCGGGAGGA G G GA $\operatorname{A} G \mathrm{G}$ G GAGAACAAGGAGGGGGGGGAGACAGCCAGAAAAG GAAGGCCAAAACCGGGGGGAGGGGGCCAAAAAAAGGGGGAGG
 C G A A A A A C C G GAA $A$ A A $A G G C C G G G G A A A G A A A A G G A A G A A A A$ AAGAGGACCGGAAGGAGGAAGGAGGGAAAACAAAAGGCCGGG
 G G G G G A A A A G G GAAAAGAAACACGAGGAAGAGAAGGAAAAGA GAAACGGGACCAACAGGGAACCCAAGAAAGAGGAAAAAAAAG GAAAGAAAAGGAAAAGGGGAAAGAAGGAAGAGGAAAACAAAA A G GCCAAAAGGGGAAAGAAAAAGGGAGAAGAAGACAAGACCA ACCGGAACCAAGAAGGAGGGAGGGGGGCCGGGGAAGGGGGGC $C G G A A A A G G G G G G G G A A A G G A A G G A A G G G G A A C G G C C A A A G G$ G G G GAAAGAAAGGAGAGGGGGACGGGGCCGGAAAGGGAAGGG GAAGGAAGGGGAAAAAAAAGGGGGGGGGGAACCAAGAAAGBA A G GAA A GAAAGAAGAAGAAGAAAAAAAGACAGAAAAGACCBG $G C C G A C A A A A G A G A G G G A G A A A G G G A A G G C A G G C C A G A A A A A$ GAAAAGGAGGAGAAAGAAAAACCAGACAGCCAAAAGGCCGGA C G G A A A A A A G G G G C G A A G G A A G G A A G G G G G G G G A A A A G G G G G GAAAAAAGGAAGGCCAAGGAAAAGGGGGGAAGGGGAAGGGGG GAAAAAAGGAAAAAAAAAAGGGGAAAAAAAAGGGGAAGAAAG
 CAAGGAGAAGGAGGGGGCCAAAAAACCAGCCGGAGGG
AAGGGGAAAACAGAAAAAGAAGAAGGGGCCGAACAAGAGGA AAACCAAGGGGAAAGGCAACAAGGAGAGACAGGGAAAGGGGA A G G A A G GCCGGAAAGAAGGAGAGGGGGGGGACCGAAGAAGAA A A A G G A A G G G G A G A A A A A A G GA $A G G G G G A A A A A G G B A A A A A G C$ AAGAAGGAGCCCCACAAGGCAAGGGAAAGCCGGAAAGAAGAA G GAGAACGGAGGACCGAGGGGGGAGAACCGAAGGGGAGACCB GAAGGGGAAAAACGGAGAGAAAAGGAGAGGAGAAGGAAAGAA $A C C G G G G G G A A A A A A A A G G A A A A A A G G G G A A A A G G T T G G G G A$ A GAGGGAGGGGCACCCGAAAGGGGGGAGAAGAAGAAGCACAA G G G G A C C A A C C A A GAGGGGAAAACCGGAACCCCGGAAGAAAA

 GACAGAAAACAGGAAGGGGGGGAAAAGGGCCGCGAAGAGAGA A G GCCAGAGGGAAAACCGGACAGAGGAAGAAAGAAAAGAAAA $A C C G G G A C C A A G G C C A G C C G A C C G G G G G G A A G G A A A A G G G G A$
 GAGAAAACAGGAAAGGGAGGGAGGGAAAGAGGGGGGGAATXA AAAGGAAAACCAACCAAAAAAGGGGAAAACCGGGGAAGGGGA
 C A G A G A G G G A C G A G G G C A A G G G A A A A GAAA A G A G GA G A G G G A GA $\operatorname{G} A C C A A G A G A G A G A G G G A A G G G G A G A A A G G G G G A G G A G A G$ A A A A A A A A A G G G G A GAGAGAAGGGGAGGACCAGAAAAAACCB AAAGGAAGGAGGGGGAAGGGGAGAAAAAGGGGGAGAAAAAAA

GAGCAAGAGGGGGAGGAAAGGGGAAGAAAAAACAGACAAAGG GAAAAGGCAGGGACCAGCAAAAGAAAGGGCCAGAAGAGGGGA GAGAGACAGCCGGAGCAGGGAGGAAGGAACAGAAGGCGAATAA CAGAAGGGGAAAAAAAAGGAAGGGGTTAAAAGGGGGGAGAAC $C T T A C G G G G G G G G A A A G A G G A G A A A C C G A G A G A A A A G G G G G A$ A A A A A A A G G G G A A A A G G G A A CA $A \operatorname{G} G A A G A G G G A C A A A G G G G G G$ GAGGAGGAAAAAAAAAAGGGAGGAAAGAGGGAAGAAACCCCA $A C C C C A G A G G G G G G G A A A G G A C C A G G A G A A G A A A A A A G G G G A$
 AAAGGGACCAAAGAAAGAAAGGGGGCACCAAAGGGACCACCA A ACAAAAGGAAAACACAGGGGGGAGAAAAAAAGAAAGAAAAG $G C C A A A A G G T T G A A A G G A A G G G G C C G C G G G G A A G G G G G A A G A$ A G G G G A G A A G G G G G G G A A A A A A A G A A G G G G G G G A C C A A G G G G A G G G G A A GCCAAAGGAGAAAAAAAAGGGGGAAAGAAAGGAAAB $G C C A A A A A G G A A C C C G G A A A A C C G G A A G G A A A A A A C A G A A A G$ GAGGGAGAAAGAGGGGGAAGGAAAAGGACGACCACAAGGGGA GAGGGAAGACAGAGGGCCAGAGGGAAGGAGAGAAAGGGAAAA A GAAAGACCAACCAAGGAAGGGGAAGGGGGAAAGAGAAAAAA AAAAAGGGAGGGAGGGGGACCAGGAGGAAAGGACAGAAAAAA ACCAAGGGACCAAGGAAAACCGGAAAAAAAACCCCGGAAAAG GAAAAAAAAGGCCAAGGGAGGGAAGAGCCGGGAAAAGGAGGA A G GAA A G A A A G A G G A G G G G A G A A G A G G G G G A G G G A A G G A G G G G G G G A A A A A C A A GAGAGAAGGAAGGAAAACCAGGGAGAAA G G G GACCAAGGAGAAAGAAAGAAGAGAGGCCGGAAGAAACBGGA A G GAA A GAA $A \operatorname{ACC} C A A A C A C A A A A G G G G G G A A A A G A G G G G A G G$

 CAGACGAGAAGCCGAGAAGGAGGAAAAGGGGAAAAAGAAA GA A G G G G A A G G A A A A A G A A A G G GCGGGGGAAAAGGGGACA G G C G GGGAGAGACGAGGACAGAACAAGAAGGAAAAAAGGGAAAAAG GAAAAAGGGCCAAGAAGAGAGCAAGAGCAGGCCAGACCCGGA GAGGGAGAGAGGGGAGAAGAGAAGGGAAGAGCGGAAGGGCCA A G GAACCGGGAGAGGGAAGGAATCACAAAAAAGGGGGGAAAA A A A A G G A G GAA A C G A G G G G A A A G A GAAA A A G CAAAATAAG G G GAGGACCAAACAAGGAAAAAAGGCCAAAACCAAAGCCACGGG GAAG $A \operatorname{AA} A G G G G G A A G G G C C A G G G G G G G A A A A A A A A C C G G C C G$ A GAAGGGAGGAAAGGAGAGGGAAAAAAAAGGCCCAGAAAAAA GCGGAAGAAGGGGGGTAGGCCAAGGGGGGGGAGACCCCCCAA A A GAGAA $A$ A A GAGGCCAAAAAAGGAATTGGGGAAGGGGAAAAA C G GCCA $\mathrm{C} A \mathrm{~A} A \subset A G C A C G G G G A G G G G G G G A A G A A A A A G G A A G G$ GAACCACAGGAAAAAAAAGGGAACCAAAGGGGAAAAGCAAAG A G GAGCCAAGGAAAACCGGCCAACCGGGGAAGCAAAGCAAGA G G G G G G G C G A G GAGAGGGGAAAGGGAAGGGGAAAC GAAAAAA
 A A G G G A A G A G G G G G G A A A A A A G A GAGAAAGGCGGA GAAA G G A
 C C C G G A A G G G G G G G G A G G A G G G G G G G G G A G G A A A A A A G A A A $G$ AAAAAGGGGAAAAAAGGGGGGCCCCAAGGGGAAAAAAAAAAA CAGAGAGAAAAAAGGAGAGAAAAGGAAAAGAAGAAAGAAAAG A GACCAAGGGGCAGGGGCCAAAAAGGAAGCAAGCAACAAAGA GCAACAAGAGGGGAGGGGGAAGAGGGGGACCCCAAGAAGAAA A A A A A A G G A GAGG G G G GAGAGAACCGGAACAAAAAGGTTG GA A A A G G A A G G A C A C G G A A A A A A G G A A A A G A A G G A G G GAA G G G A AAAGGGGAAAAGAAAAGAAAAGGCCGAGAGGCCAAAAAAAAG GCCCAACGGGGAAAACCAGGAAAACAGAGAGAAACAAGGCCG A A G G A A A G G G A A G G A C C A A GA G G G A GAGGAGGGGGAGAACAA A G G A C A A A A A A G G G A G G A G A A A G G GAGGGGAGGAAAAAAGAC CAAGAAGGAAAGAAAAGGAGCAGGAGGAAGGAAGGCAAAAGAC $C C C G G A A A A G G A A A A G G G G A A C A A A C C G G A G C C A G G A A A A G G$

A G GAAGGGGGAAGAGAGCCACGAAGGGGAGAAAGGGGAAGGC C G G G G GAAACCGGAGCCGAGGACAACCAAGGAGGGGGAGAAA A G G G G A A A A A A G G A A A A A A A C G G G G GAGGAAG GAA G GA GA G G A G G G GAACCGAAGGGAAAAGGAGAGAGGAAAGGGGAAGAAAA GAA A A GAGGAGGAGAAAAGGGGAGAAGGGGGGGGAGAGGGAA A G G A A A A G G G G A G A G G G G G G G A A A A A A A A G G C C G G G G GAAA A A G G A A A A A G G G G A G A G G G GCC G G G G G A A A C C G G A GA G G A G G C C GAAAGGAAGGAAAGAAAGGGGAAGGAAAAAGAGAAGAAAAA G G G A A G G A A C C G G G G A A A A A G G A A A A GA GA GAAA A A A G G G G G GCCAAGAGGAGAGACGAGACCAGAAGGAAGGAAGAAGAGACG A A A A A G GAAAA $A \operatorname{A} \operatorname{A} A \mathrm{~A} A A A C A G G A G G G A A G A G G G A G A G A A G A G$ $G C C G A A G A G A G A G A A A A G A A G G A A A G G G G G G G A A A A A A A G G C$ C G GCCAAGGAGAAGGAAGGAAAACCGACGAAGGAGGCAAAAG GAAAGGGGGTTGGGGCCGGAACCGGGGCCCCGGGGGAGAA$G A$ A A A G G G GCCGGGGGGAGGGAACCAAAGAAGGCAGAAGAGCAA
 A A G G A A GCC $C G G G G G A A G G G G A A G G G G A A C C G G G G G A A A G B A$ A A A A A G G G GCCGGGGCCGGGGAAGGGGAAGGAAAAAAAAAAA AAAGGAAAAGGAAGGCCAAGGAAAAGGAAGGTTGGAACAAAG
 A AACCAAGGAAAAAAGGAAAAGGAAAAGGAAGGAACAAAGGG GAAAAAAAAAAGGGGAAGGAAAAAAAAAAAGGGAGGGGAAGG GAACGGGAAGGCAAATTCAAGAGGGGACCGCAGGAGACAAAA
 C GAGGGAACGGAAGGGAGGAGAGGGGGAGAAAAAGAGAGGGG A A G GAGGAAGACCCCGGGGAAGGGAGGCACAAGCAACAAATA GAGAGGACAGAAAGGCCAGAGACGAGAGAGAGGGGCAAAAAG
 A A A G GAGGGGGGAAAAAGAAGGGAAAAGGAGCCCCCCBAGAA GAGGACAGGGGGGGAAAAGAGAGAGAGCAAGACAGGGGGGGA A A G G G G G G G G G G G A A G G G G A A G G G G A T G G A C A A A A G A G A G A C AAAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGGG $A G G C A A A G G A A G G G G A A A A A A G G G G A A A G G G A G G G G G G A A G G$ A G G A G G A G A G G G G G A A A A G A G G A G G A GAGCAGGGAAAC G G A A
 A G G G A G C A C G A G G A C G G A G G G G C C A A G A A G G C C A A G G
$A A C C A A A G G A A A G G A G A G A G A C G G A G A A G G A C A A G A G G G G C$ CAGGGGGACGGAAAGGAAGAGGAAGGGAGGGGGGAGGCAGAA A A A A A G G G G A A A $\mathcal{A} G G G G A G A G A G G G G G A G A A A G A A G G A A G A A$ A G G G A A C G A A A A A G GAAA $A \operatorname{AGGAAGGAAGGAAGGCCCAGACAA}$ GAGAAAACCAAAGGAGAAACACAAAGGGGAAAGCACACAAAA GAAGGAAAAAAGGAAAAGGGACAAGGAGGAAACAABAAAAGA G G GAAAGAGAAGAAGGAAAGGGGGAAACAAGAGGGAAAAGAA G G GA $\operatorname{G} G A G G C A G G A G G A C C G A A A G G A A A A G G C A A A G G G A G G A$ G G G A G GA $\operatorname{G} G A A G G G G A A A G A A G G G A G G A A A G G G A G A A A A C C T$ A A A C C G A A CAA $A \operatorname{GAAAGGCCAAAAGGAAAAGGGGGGCAGGGGA}$ GAAGGGGGGCCGAAAGAGGAAAACCAAGGAGGGAGGGCCGGA A A A G G A A G G G G A A A GAAAAGGGGCCAAGACACAAGGGAAGAA GCCAGAGGGCGAGGAGGAAGAGGGGAAAAAAGAGAAGGGGGA A G GAAAGGACCAGGGAAGGGGGAAAGGCCAAAACCACAAGAG A A G G G A G A G TA $A \operatorname{GGG} \operatorname{GAAAAAAAAGAAAGGAAAGAACAAAACA}$ C G GAAAGGAAGAGGGAACAGAAAGAGGAGAAAAAAAAAACAG G G G A G A C G G G A A A G G G G A G G A C A G A G A A G G GA G G G A G G G A A G GAACCGGAAGGGGAAGGGGAGAGGGAGGAGGAGGGGGAGCAA GAAAA A A A A GAGGAGGCCGGGGAGGAGAGGAAAAAAGGGGGGG $G G A G G G G A A G G G G A G G G G A A A A A G G G G G A G G G A A A G A A A A G G$ GAATAAGGGAAAACCCCGGAAGACACCAACAGGGGAAAAAAG
 A G GAAAGCCAAAAGACCGGCCGGAAGGAACCAAGAAAGGGGC

A GAAAAACAAGAACCGGGAGAAGGACCAGCCGAAAAGGAAAA GACAGGAAGCAAGAACCGAACAAAGAAAAGGGGGGAAAAGET T G GAACCAAGGAAAAAAAAAACCGGGGGGGGAAAACCBAGGG AAGGAGGGGAGAAAGGACAGACCGAGAAAGAGGGGGGGGGAA A A A A A A A A A G GAAGAGGCCTAGAAGGGGGAACCGGAAGAAAA GACGGGGGGAAAAATGGAGACCAGGGGCCAAAACCGGCAABA A A G A A G A A A A A A A A A C C G A A A G G G GAGAGGGAGCCGGA GTTT A G A A A A GAGCCGGCAAAAGGGAAATGACCGGAAAAGGGGGGA A G A G A G G T A A G A A C C A A G G C C G A G G A C G A G G A A A A A G G G G G A G G G G G G G A A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{GA} A \mathrm{~A} G A A A A A G G A A A A A A A A A G G A G G G$ G GAAAGGCCAGGGGAAAGGCCAGAAAAGGAGAACAGAGAGGA AAGAGACACGGGAAGGAAGAACCAGAAGGGACCCCGAGAAAG G A A A A A A A A A A A A A A GA GAGAGAAAGGAGAGAGGGAAAAGGG GTACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAAAAA A A A G G A A G G GAA A A GAAGGAACCGGAAAACCGAGGGGGAAAA A G G G GAAAAGGCAAGAGGAAGAAGGGGGAAGGGGCAAGAAAA A A A A A G GAA $A \operatorname{A} A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G G$
 $C G G C A G C G A C C G G A G A A G A G G C G G G A C G A G G G G A A A A A G G G G$ GCCCCAACAAGAAAACCGGAAAAGAAGGGGGGGCCAAGAGAA G GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACAAAC A GAAA A A GAAA $A \operatorname{A} G \mathrm{G} A A A A A G A G A A G C C A G A G G G A G A A G G G A C$ A A A G A A G A G G G GAC CA $A \operatorname{AACGAGGGAGGGGGGAGGAGCACACA}$ G GAGCAGGGAGAAGAAGGGACCACCGGCXAAGGAAGAAAABA GAAGGGGAAGGAAGAAGAATACCCCGAAAACAAGGAGAAAAA A A A A G A A A A G G G G G GAAAAAAACCCGGGGGGCCAAAAGAAAG GCCAGAGGGAAAAGGAACCAAGGCCAAGGAAGGGGGGAAACA GAA $A \operatorname{GA} A A G G A G G G G A G A G A G A C A G A G G G A C G A G G A G A G G G G$ GAAAAAAGGAAAAATAAGGGGGAAGAAGGTTAAAAAAGGCCC AAAGAAAGGAACCAACCTAAAGGGGGGAAAGAAGAAGGAACB G G G G GCCTTGGAAGAAGAAGCACAAGGGAGGAAAAAAGGGGT TAACCAACCAAAAAAAAAGGGAAGGGGAAAAAGGGAGCAAGA
 AAAAGAGAAGGGGAGCCGGAAACAGGAGGAAGCBAAGGAAAG A A G A A A A A A A A A A CAAAAAAAAAGGAAGGAACCCCCCGGGGA A A A A A A A A A G G A A C C A A C CAAA $A \operatorname{CACGGGGAAGGTTAAGGGGA}$ ATTAAGGGGAAAAGGGAGGAGCCACGGGGAGAAGGACAAAAG G G G G GACAGCAGGGAAAAACCAGGGGGACACGAGGAACCGGG G G G A A C C G G G G G C G A A G A G A G G A G A A A A G A G G G G G G G G A G G G GAAAACAAACCAACCGGGGAAGAAGGATTGAGACCAAGAAGC CAGAGGGCCACAGAGAGGGAAAAAAAAAACAAGGAAGGAAGA A G G GAGGAGCCGGGAAAGGAAAGGAAAAGAAGGGGGAAAAGA $G C C A G G A A G A A A A G G G G A A G G A A G A A G A C C A G G A A A G A A G A G$ G GAAAAAGGGGAAGGGGCCAAAGAAAAAGGAGGAAGAAGAAA ACAAAAAAGAGAAAACCCGGGGGCCAGAGGGAGGAAACAAAG G G G G G G G A A A GCC G G G G C C C C A A C C A G G G G A G G G G G G A A G G A A GAGGAAAGGACCGAAGATGAAGGGGGAAGGGAGGAAGGGGA A A A G GAA $A \operatorname{ACG} C A C C A G A G C C G G G G A G G A G G G G G G G G G G C C G$ G G GAAAAGAAGGAAAAACAAAGAAGGAGGGGCAAAGAAGAAA $C G G T A A C G G G G C C G G G G A C G A A A G G G G C C A A G G C C G G G A G G A$ ACCCAGGAACCAGAAGGAGGGAGAAGATTCCGGGGGAAAAAA A A A A A A A G GAAAAAAGGGCAAGGGGAACCGACCGGAGGAAAA A G G G G A A C C A A C C G G G G G A A G G G G G A A G G A A C C C C A A G G A A A G GAAGAAAGGGGGAGGAGGAAGGGAGGGGCCCAGGGAAGAAG GAGCCGAGGGGAAGGCCAAAACGGAAAACGGGACCAAGGGGG G G GCC GA GAGAACACAGCAACCAGGGGAGAGGGGGGGGAAAG G G GAGAGAGCCGGAAAAAGAAAAAGCCGGCCGGGGGGGGGGA A G G A A GAAA A G A A A A A A G GAGAAAAAGAAGGGGGGAAAAAAC AAAAAAAAGGAAAAAAAAAGAAAGACAGAGGGGGGAAGAAGA

GAGGAAGAAGAGGGGGGAAGGACGGCAAGGAGGAGAGACACA G GAAA $A \operatorname{AGGGAACCGGAAAGCCAAGGGAACAGGGAAAGGAAAG}$ A G G G G A GA GAAAAGGAAAACCAAGGGACCAGGGAGCCACAGA A A A A A A GAAAAAGACGGCCAAGGAAGGGGACGAGAAAGAGAA GCCAAGGGGAGGAAACAGGGGAGGGGAAACAGGCAGAAAGAA A A A G G A A A G A A GAA $A \operatorname{G} G A G G A G A C G A G G G G A C G G G G A A C A G A A$ ACACCCCTTCCCCCCGAGGGGGAGGAAGAAGGAAGGGACAAA GGGCCGGAAGAGGGGGGCCAAAGGGAGAAGGCCAAGAAAAGC A G A A G A A G G G GCCAAAAAAAAAGGAAAAAACGAAGATTAAAAG G G GAAAAAAAGGGGAAGAACAAGAAAAGGAAAGACAAGAAGC ACCGGGGCAGGGGAAAAAGGGGGGGGAGAGGCCGGGAAAGAA G G GCC $C$ G G G G G G GAGGGGACAGGGGAAGACAAAACCAACAAAA G G G G G C C A A G G G G G A A A A A A G G A G G C C G G G G G G A C C A A A G A A GAAGGAGCAAGGGAGAAAGGGGGGACAGAAAGGAAGAGAACB A GAA A A C G G G G G GAGGGAGGGAGGGCAAGTTAGAAAAAAAAG A G GAA A A A GAGGAACAGGGGGAACAGAGGGGGGCCGGABAAG GAGACGGAGGAAAGACAAAGGAGAGAAGGTAAAGAAGAAAAG A A A A A A C G GAGGAGAGAAGGGAAAAGGAAGGGAA GAAAAGGG GACAAGGGGGGAAAGAACAGGAAGGCCAACGAAAGAGGGGGA A G G G G C C A A A A A A G G A A A A A A A A A A G G G G A A A A A A A A A G G G G GAGAGAGGGGGGGGGAGGGAGGGGGAAAAAAAAGGAACAGAG G G GAAGCAGAGAGGCGGAAAAAAAGGAGGAAAGACGAGGGAG A A TAAAAACACAGAGGGAGGAAGCCACAAAAAACCAAGGTTG G G G A A A A G G G A A A A G G G A G A A G G A A C C A A A G G G G G G G G G G G G GAAGGATCACGGGGGGGAAAAAGGGCCGGAGAGAAGGGAAAAG G G GCCAAAAAAGGGGAGGGAAGGGGGGAGGGGAGAGAAAAAG GAAAGGGAGAGGAGGGGGGGGAGGAGGAGATACAGGGAAGAA A G GAAAAAGAAGGGGGGGGAGGACCGGAACCAGAAAAAAAGG A A A A G A A G G A A A A A A G GAACCCC GAAATTCCGGCCGGGAAAG $A G A C A A G G G G G G A A G A G A G A A A A G G G G G G G G C C A A A A G A G G A$ A A A A C A A C A A G G G C A A A C A A A A A G G A A A A GAAA G G A G A G G G A A GAAAACGGACGATTAAAAGAAACCAAAAGGGGGGGAAGAAA AAAAACCAAACGAAGCCGAAAGACCGGAACAAAAAAAAGGAA A A A C A A A A A A A A A A A A A GAA GAGAA GAAAGGCAA G GA GAA GA CAAGGAGCCCCAAAAAAGGAGGGAAGGGGAAGGAGGGGAAAA GCGCCGGGAGAAAAGGGAGAGAAGGGAGGGGCCCAAA
G GAGAAAAAAAGGGAAGGGGCCAAGGAAGGGATACCGGAGG $G C A A A G G G G A A G A A G A A A A A A G G C C G G G G G G A A G G C C B A A A A$ A G G G G A A A A G G G G A G G A T T C C G A A G G A A GAATTAAAAGAAAC
 GACAAGGAGCCGAGGCAGAAAGGAGAAGGCCAGAAAGACGGG C G G GAAAGGCAAAAAACCAAGAAAAGAGAGGGGCCAAGAAGC CAAACACAAGGCCAGAAAAGGGGGGAGAAGAACCCAAAAGGG G G GCCAAAAAAGGGGAAGGGGGGAAGGAATTAGAGAGCAAAA GAGGGGGGGGGCCAGAAGAGGAGGGAGAAGGAGGGAAACAAA A A A A A A A G A A G A A G GAA $A \operatorname{GAAATTGGGAAAGGAAAGGGGGCCG}$
 GCCGGGGCCGGAAAAAAGGAAAAGGAAAAAAAAAAAAGGGGG GAAGGGGGGAGGGGGGGAAAAGGGGGGAACCGGGGCAAAAAA $A C C G G A A A A G G C A C A G G C A G G A A A G G C G G A G A A G G G G A G G B A$ GAGGAGGGGAGACGGAAGGCCACAGCCCCGGAGGGCCGGGGA A G G A A G A A A A A A A GAGGGGCAA GACGGAAAAGGGGGGGAAAA A A G GACCGGGGCCAGAAAGAGGAGGAAAGAGAAAACCAAGGC $C C C A A A A A A G G A A G A A G C C A G G G G G G A G A C C G G G A G G G G A A A$ AAACCGGAAGAAAGGAAAGAGCCGGGGAAAGAACAAGGAAAG GAAAGAGACGAAGAGGAAAAAGGAAAGGGGGAACCBGABAAA A A A A A A $\operatorname{A} G \mathrm{G} A \mathrm{~A} G A \operatorname{A} G A A A C G G G G C C G G G G G A G G G G G G G A A G G$
 G G G G G A A A A G G G G GAA A GAAAGAAAAGAGCAACA GAA GAGGG

A GAAACCTAGAGAAGCCGGGGAAGGAAGGGGAAAAGGAGGGA C G G A A G G A G G A A G G A G G G G A A G G A G A A G G G G G G G G G G A A G G G A GAA A G G GAGGAGGGAAGGAACCGACCAAAACCAGGAAAGGA A A A G G GAA $A$ A A GAAAAGAACAGGTTGAAGAGGGAAAAGAAGA $C C C G G A G G G A A A A G G G G G G A A G G A A G G G G A A G G A G G G G G G G A$ A A G G A A C A A G G GA G A C GAGGAACGGCCAAAAAGAGGGAGGAC C GAAAGGGGCCAGAAAAAGGAAAGGAAAAAAAAAGAGGAAGT $T G G G G G G A A G G G A T T G A A C G G G G A A A C G A G A G G G A A G A A G A A$ ACAGGGGGGGGGGGGGAGGCCCCGGAGCAAAAACCGAAAAAG GACGGCAAACCCACCAGAACCGGCCTTGGAGACGAGGACAGG G G G A A GAGGAAGGGGGAAGGGCCAGCAGGGGAAAAAAAAAAA GAACAGGAACCGGAAGGAAGGGGAGAGGAAAACAAGGGAGGA G G G A A A G G G G G A A G G G G A A A A A A A A A A C CAAAA A G G GAAA $A$ A A GAG $\operatorname{G}$ A A A A A A G G A A G G G G A A A A $\mathcal{A} G G G G G G G A A G G A A A A G G G$ $G G G T T G G A A G G G G G G G G G G A A G G A A G G G G A A G G A A A A G G A A A$ AAAGGAAAAGGCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAG GAAAAAAAAGAGGAAGGAAAAAAAAAGAGGGAGAAAGAAACAA GAGAACAAAAGGGAGGGAAGGGGAAGAGGGAAAGGAAAGAAA ATAATGGAGCCACCAGGGGAAGGGGAAAACCGGAAAACAAAG GAAGGGGGGCCGGAACCAACCGGGGGGAAAAGGAAAAAAAAG G G GAACCAACCAAGGAAGGAAGGCCAAAAGGGGGGAAAAAAG G G GAA A G G GAAAAGGGGGGAAAAGGGGCCGGGGAAAAAAGAA A A A G G G G G GAAAAAAAAGGGGGGGGAAAAGGGGAAAACACAA A G G G GAAAACCAGACCAGGAAAAGAAAAAAAAAAAAGAAGGG $G G G A A G G G A A G G G A A A A C C C G A A G G G G G A G G A A A G A A A A G A A$ GAACCGGAAGGAAGGGGGGAGAGGGAGAAAGCCGGGAAGAGG A G G GAGGGGAACAGAAACAAGAAAAGAGAGAAAATGGGAAAA A G G G G GAAGACAAAAAACCGGCCGGCCGGAGCCAACAAAAAA A A A A A G GAA $A \operatorname{GGG} A A A G G G G A A G A G G G A A T T A G C C A A C A A A A$ GACGAAAAAAGGGTTGGACAGGAAAGAGAAAGGGATTCXGGA A A A G G A A G GAA A G G GCCAAGGCCCCAACCGGGGA GAAAAGGG GCCAAAGAAGGAGAAAAAACCAGCCAGAAGAGAAAGGAAAAG ATTAAAGAGCAGGCCGAAAAAGGCCAAGGAAAGGGAAGCCCG G T T A A A G G A A A A G A C G G G G A G G G A G A A G G A GAA A A A A A A G G A A A A G A A A G GAAAAAAAAAAAAGAGAAAGAAGAGACGGAAGAC A G GCCAGCAAGAGAGAGAGGGAAGGGGTTCCGGACAAGAAAA A A A GAAAACAAAAAAAACAGGGGGGGGAGGGGGAGAGACCAG AA GAAGGCCCCAAAGAACCAAAAAAGGGGAAAGAAAGAAAAA GAACAAAGGAAAAAGAAAAGGTTGGGGGAGAGGAAAAGGGGG
 A G GAAAAACGGACAAAACCCCCCGGCCACGGCCGAGGGAABAA A G A A C A G G A A G G A C A A G G G A G A A G G G G G G A A G G A A G G C C A G A AA $A \operatorname{GGGAAAAAGACAAAAAAGGAAAAAGAAAGGGGGGGGAAAG}$
 GAAGGAAAAGGGGGGGGGGGGAAGGGGAAGGGAAGAACAGAG
 GGGAACCGAGGGAGAGGAGAAAAGGAAGAAGAAGGAGGGCCA G G G G G G G G GAAAAGGGGTTGAAGACAAGGAAGGGGAAGGCCA GAAGGGAAAGGAGGGAAAAGGGGGGGGGGGACCGGGGAAAAA
 A A A A G GA G GAA A A G G G A A A A G G G A A G G GAC GACA G G GA G G G A
 G G G A A A A C C G G G G G G A A A G G G G G C A A G G A G G G A G G A A G G A G A A G GCCAAGGAAGGAAGGGGAAGGACGGAAGAGGAAAAAAAAC C G G G G G G A A A GAGAAGAGAAAGGGGAAAAAAAACACCAAAAG G G G G A G G G G A G A G G G G G A A A G G G A A G A A G G G G A G G A G C A G G G GAAAAGGAAAGGAAGCAGAAGAAGGAAGGCCGGCCAAGAAGA AAAGGAAGGGGGAGGGAAGGAACGGGGGGAGCAAGAGAAGAG A G GAAAAGAAGACGAAAGGAAGGGAGGGGGGAAAACCTXGAG

GAAAAAACCGGAAAGGAAAGGAAACAGAGAGAAGGAACCGGA
 A A A A G G A G GCAGGAAGGGGGGAGGAAGAACCCCGCCCACAAG AACGAAACGAAAAAGAGCCAGAGACAAGGAAGGAGAGAGGGG
 GCCAAGGGAGGCCAAGGGGAAAGGGAAAGAAACGAAAGAACA GAGTTGACCAAGGGGAAGGGAGGAGGACCGGAAGGAAGGGGC CAAAAAATTCAGGAGAGGAAAAGAAAAAAGAAGGAGCGAGA G A GAA A A A G G A G GAGAAAGGCCGAGGCCAAGAACAAAACAAGA $A G G G G G A G G G G G A G G G G G A A A G G G A G G G A A A C C A A A G G A G G A$ A T T C C G G A A G G G G G G G G G G G G A A G G G A G G A $\mathcal{A} A \operatorname{A} A A G G G G G G A$ C GAACGGGGAAAGAGAAAAGAAGGGGGAGAGAGAAAAACGGG A G GA $\operatorname{A} A A G G G G A A G G G A C A C C A A A G G G G G G G A G A G A A A A C A A$ GAGAGGGGACAGAGGGGAAGGGGCCAAAAGGAAAAGAAAGGA AAACCAGGGGGGAAAGGAAGAAAAAGGAAGGGGAGAAAAAAA AAAGAAACAAAGGGACCGGAGCCGGGGAAGCAAGGGGCAGAG G G G A A G GAGGGAAGGAGGGAAGAAACCCCGGAAAAAAAAAAG GAGGGCAAAGGGGAAGGGGAAAAAGACAGGAAAAGGGAGAAA $A G A A G G G G G A G G G G G G A G G A A A G A A A G G G C C G G G G G A A C G A G$ A GAAGAAGGCAAGGAAGCCGGACAAGGAAGGCCAAACAAAAA AAACCGGCCCCGGAAGAGGGGGGCAGAGAAAGAGAGGGAAAA A G GAAAACCAGGGGGAAAAAAAAGGGGAAAAAGCCAAGGGAA AAAAAGGGGAACAAAAGGGAAGAGAAAAGATAAAAGGAAAAG GAAA A $A \operatorname{AGGGGGGGA} \operatorname{G} \boldsymbol{G} A A A A A A A A A G G G G G G A G A A A G G A A A G A A$ A G G G G G G GAGGAAAAACAACCGGAAGGAAAAAAGAGGGCCCG GCAGAAAGGAGGAAAAGGGGACAAAGGCCAAGGGACAACGGA GAGAGAAGGGGCCAGGGCCGGACAAGGAGGGGGAGAAAAAGG GCAGGAAAACCGGGGAGGAGAAGAACCGGAAAGAGAGGAAGB GAGAAGAAAAAAGAGGAAATTGGAAGAGGGAGAAAAAAAGGG GAAAAAAGAAGAAAACCAGAAAGGAGAAGAGAGGGGGGAGGA A A A A A G G G A A G CAA A A A GAGGGGAAAAAGGGGGGGAAAAGGG A GAACGAACAGAAAAAAAAGGGGGGCAAGCAGACCGACAGAA CAGCCGGAAAAGACCGGAAAGGAGGGAGGAAACAACCCAABA GAAGGAAGGGGGAGGAAGGGGAAGGAAGGAAAAAAGAAAA GA A A G GCCCAATAAGAACGAGAACCGACAAGGGGAGGGGAACAA GAAACAGCCGAAAGGAGGGGGGGGGCCACCCCCGGGG
A GAA A G GAGGCCAAGGGGAAGGGAGGTAGGAGGGCAAAAAG GAAAAAAGGGAACGAGAGGGAAGGGGGAGCCGGAACCBAAAA
 A A A A A G G G G G A GAA A G G C C A A G G A A GAGGAGGAGGGGAAAA G $G G A A A A A A A A A G A G G G A G G A C C C G G A G A G G G A A G A C C G A A A G$ G G G G G A G G GCACC GACCAGAGAAGGAGGGCCAAAAAACCCCG G G G G G G G G A GAGGGGAAGGAGGGGGGGGGGAAGGAGAAAAAA G G GAGGAAGAAGGGGAAAAGGGGAAAAGGAAAAGGAAAACCG GAAGGCCGGGGAAGGAAAAGGGGGGGGGGGGAAAAGAAACCC CAAGGAAGGAACCGGGGGGCCAACCAAAAAAGGAAGGCAAAG G G G G G G G A A G G G G G G G G A A A A A A G G C C G G G GAAAA A G C C G G A A G GAAAAGGAAAAAAGGAACCAAAAGGAAAAAAAAGGGAAAC CAAAAGGGGTTGGCCGGAAAAGGAAAAGGAACCAAAAAAGAA A G G G G A A A A G G G G A A G G C C G G A A C CAAAAAAAGGGGAAGGCC G G G G G G A A A A G G A A G G G G G G A A A A G G A A A A A A A A C CAA G GAAA A G G G GAA $A \operatorname{A} A A A A A A A A A A C C A A G G C G G A A A A G G A A G A A A A$ A G GCCAAAAGGAAAAAAAAGGAAAAAAAAAAAAGGGGGAAAG GGGCCGGGGAAAACCAAGGAAAAAAAAGGCCAAGGAAAAAAA AAAAAGGGGAAAAAAAAAAAAGGTTGGGGAACCGGGGGAAAG GAAAAAAGGGGAAAAAAGGAAAAGGAAAAAAAACCGAAAGGG GAAGGAAAAGGAAAAAAGGCCAAGGGGGGGGAAAAAAGACCA $A C C C C A A G G G G A A A A A A C C G G A A A A A A G G G G A A A A A A C C G B A$ $A G G C C A A A A G G G G G G A A G G G G G G G G G G A A A A A A G G G G G G G G A$

A G G G G G G A A A A A A G G A A G G G G A A A A A A A A G G G G G G G G G G T T A ACCAAAAAAAACCGGGGAAGGGGAAAAGGAAAACCAGAAAAG GACAGGGGGAAAAAAAAGAAAAAAAAAAACCAAAAAAAAA GA G GAGGGAAAAGGAACGGAAGGCCGGACAAGGAAAAGGGAAAA A G GACAAGGGGAGAAAAAAAAGGCCGGGGGAAGAGGACCGGA GCCGAAAACAGTTGGAAGGGGGACCAAGGGGCCCCAACAAGG
 ACAGAGGAAGGAGGGCACAGAGGAAGGAGCCAAGAGGGAAAC $A C C A A A A A A A C A G G G G G A A G G C C A A G A A A A A A A G G A A G G G G A$ AAAAGGGGGGGAAGAGGGGAACAAAAACAGGGGAGGGCAGAG A GAGAGAAGGAGAGGAGAACAAAGGCCAAAAACAAGGGACAC GAGAAGAGGAAGGGGAAGAAGAGAAGGGGAGAGAGGGAAGAG AGGAAAAAGCCAAAAGGGGATAGCCAAAGGAAACCCCGAAAA A A GCCAGGACAAAGGCCCCAGGGCACCAGCCCCGGGAAAGGG A G A G A G G A GAGGGGGGGGGGGAGTTGAGGGGAAAGCAAGAGA A G GAGCCAAAAGGGGAAAGGAAAGGGGGGAAGGAAGGGAGGC A G G G G A A A A G G A A A A G G G G A A A A $\mathcal{A} G G G G G G A G G C A A A G G G G G$ $A C C G G C C G G A A A A C A C C C C G G G G G G A A G C A G A G G G A A A A G G G$
 A A A G G A C A A A A G G G GAAGGAAGGGGGGAACCGGAAAGAGAAG GAGAACCCCGGAATTGGAGGAAGAAAGAGAGAAAAGGAAGBA A A GA $\operatorname{A} A C A G A A A G G G A A G G G G A A A G A A G G G G G G A G A G G A G G A$
 GAGCACCAGAAGAGGCCAGCACCAAAAAGAAAAGGCCGAGAA G G A G G A A G G G G A A G GC CA G C C G GACAAA A G GA G G GAC G G G G A A GAAACAGAAGAGGGAGGGGGAAGGAAGGGGGGGGAAGGGGG G G G G GAGAAAACCAAGGGAGGAGAACAGGCAAAAAACGAAGG G G G G G A A G G C C G G G G C C G G A A C C A A A A A G C C G A G G G G A G G G A G G A A G A A C C G G GACCAGAGTTAAGGAAGGGGAAGGAAGAACA AGAGGCCGGAGAAACAAAAGGAAAAGGAAAAAAAA GGGGGGG A GAAACCAAGAGGAAAGGAGGAAAAAAAAGGACGGAGA GAAAA G GGACAAACAACGGAAAAAAAGAGGGGGAAGAACCGGGBAAA A GAGGAGGAAGAGCCAGGGGAGGGGGACCCCGGGACCAAAAA GAATTAGGCGGGGGGAAGAAAGGAAGGAGAAAGACCAAAAAA A A G G G G G A A GAGAAGAACCGGGGCCAAGGGAAGAAAATAAAC C G A G G A G G G A A A A G G G A G G G G C A A GAC G G A A A A G A A G G G A A $G$ A GAAAGACCGAGAGAAAAGAACAAGGGGGGGAAGGAGGACCA A G GA $\operatorname{A} G \mathrm{G} A C A G G G A A G G G G C C A A G G G G G G A A A A A A C C G G G G G$ G G G A A A A G GCCGGGGAAGGGGAAGGCCAACCAAAAAACGGGG GAGCCAAAAAAAAAGAAGAGGGAGGAGAGACTTAAAAGAGAA AA $A G G G G A A G A G A A A G A G G A A G G G G A A C C A A G G G A G G C G G G G$ A A G G G A A C C A A G G G G G GAGAGGGAAAAGAGAAGGAGGA GAAA AAGGAAAAAAGCCCCAAAAAAACGAGAGAAGAGGGAAAABAA C GAG A G G A A A A A A G G G G G G G G G G A A G G A A G G A A A G A C A G A A $G$
 GA $\operatorname{G} A \subset A G G A A G G G A C A A A G A G A C G G G G G G C A A G A G G G G A C A C$ A G G A A G G A G G G A G A A G G G A GACCGGGGGGGGAAGGGAAAAA G AAAGGGGAACCAAAGAGAGAAAAGGAAGGAAGGAAAGAAGAA A GA $\operatorname{A} A \mathrm{~A} A A A G G A C A A A A G G G G G G G G A A A A A G A G G G G G G G A G G$ GAACCGGAAGAAGGGAGAGACAGGGAAGAAGAGAGAAAGAAG AAAGGAAAAAAGGAAGAGGAAGGCCGGAAAAAAGAAAGAGAG GAGAGGGAAGGAAAAGGAAGGAAGGAAGGAGAAAAAAGAGGG G G A A A A A A A G G G G G G C C A A G G A A A G A A G G G G A A G G A A G G G G A AGGGGAAAAAAGGAAAACCGGAAAGACGAAGAGGAGAAGAAG A GACCGGAGCAGGCAAGAAAAAAAAGGGAGAGGAGGAAAGAA GAGCCGGAGAAAAAAGGAAAAGAAGAAAAGGAGGGGGGAAAAG GAAAAGAGGGAAAGGGGCCCAGGGGACGGAAAGAAGAGAGGG G G G GAA A A A A G GAA A GAGGAAGGAGGAAGAAAAGAAAA GAAA GAACCGGGAAGAGGAAGAAAAAGCAGAAAAGACAAAAGAACAA

A GAAGGGCCAAGAGGAAAAAAACGGGAGGCAGGAGAGAAAAA C GAGGAACCGGAAGGAAAGAAGGAAAGAAAAGAGGAAAAGGG G G G G G GAA A A G G GAA $A \operatorname{AGGAACGGCCCAGAAAGAGGGAGACAG}$ GAAAGGGCACCAAGGAAAGAGAGGGAAGAGGGGGGAAAAAAC CAAGGGGGGCCAGAAACGGGGACGACCAAAGAGGAAAGGGGG G GAA $A$ A A A A G G GAGGAAAAGAAGCCAGGGGGA GAAA GAGGAG G G G A A A A G A G A T T A A G G GA $A \operatorname{GAAA} G A G G G G G A G A G A G A A C A A A$ GAAAAGGGGGGAACCGGAGCCGAGAAAGGAAGGGGAGGACAA A G G G G G G G GCCAACCAGAGCCGGCCGAGGACGGAAAAAAAAG G G G G G G GATAGAAACGGGGGACCAAAAACAGGGCCGGAGGGC A A G G G A A G A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A G A G A C G A A G C A A G G G A C G G A$ G GAGGAACCAAAGAGAAAGGAACGAAACAACCAGAAGCAAAG
 G GAGGAAGGGGGGGGAAAAGGGGAAGAAGCCAGGACAACGGA AAAAAA AAAGAAGAAGGGGAACAAGAAAAGGAGAGAGGGGGA A GAGGAAAGAGACGGAAAGGAAAGAAGGGGGAGCCGAAAAGAA C GAA $A \subset C G G G G A A G G A A G A G G C C A C G G G G G A A G G G A G A G G G G$ A G GAACCGGCCAAGAAAGGGAGGAGAGAAGAAACCACAAAAAA A G G A G A G A G G G G GAAGGAGGAAGAGAACCCAAAAACCAGAGC A A C G G A A G G A G A G G G C C A A A G C C G G G G G A A A A A A A G G G G G G C CAAAAGACAAGGAGGGGAAAGAAGACAAGGGGGAAAAAAAAA AAAAAGGAGCAAAAGAAGGGGAGAACCGGAACAGGCCAAGGG GAAAAAAAAACAAAGAACCGGGAAGAAACGGAAAGGBAGGGA C A A $\mathcal{A} G A G A A G G A A G G G G A A G G G G G A G G G A G G A A A A G G G G G G A$
 GAAAAAAGGGGTTAAGGAAGGAAAAAAGGGGGGGGGGGGGGG G G G G G A A G G G G A A G G G G G G A A A G G GAAAAAGCACAGAAAAA $A$ CAAGGAAGGAAACAGAAAAAGCCAGAGGAAAAGAAGGGAACA AAAAAGGAACCGGCCAAAAAAGGGAAAAAAGAACCAAGAGAC CAAGGAAGAGGGGAGGAGAAAAGAAGGAGGGGGGGCCAAGAC C G A C A C A A C G A A G G G A G A G GA G G A A C C G G G G G G G G C A A A A G G G GAGGGAAGAAAAAAGAGGAAAAGAGAAGAGCCGGGGCCGGA A G G G G A A A A A A G GC C G G G G A GAGAGAAGGGGAA GAG GAA G GA A GAA $A$ G A A ACAAAAAAACCACGAAAAAGGAACAGGAAA GAAA ACAAAGGAAAGGAGGAACAGGGAGAAAGACAGGACAAAAGAA TGGCAGAGGGGAAAAAGAAGGGGAAGGGGGGAACCGG
$C \subset G G G G A A G G A A A A A A G G G G G G A G A A A A A A G G A A A C C A G G G$ GGACCCCAAGGCAACGGAAAAGGGGAAGGAAGGGGAAGGGGG
 TAAGGGGAAGACAGACCAAGGGACAAAGGGACCAGAAAAAAA GAACAGGAGAGGGAAAAGGGAAAGAGGCCAAAGAAAAGGCCA
 ACAAAAGAAAAGAGGAAAAAGAAAGGAAGAAAGGAAGAAAAG A A T G G GAGGAAAAAGGAAAGGAAAAGAAGGGGAACAAAAAAC $C G G G G A A G G G G A G C A A A G G C A G G A C G G G G G G A A G G G A G A A G G$ G G G G G G G G A A GACAAA A A GAGGAAGGGAACCGGAGAAAAAAA A A A G G G G G G G A A A GAGGC C G G A A GAAA A G G C C G G G G G G A A G A A

 CAAGGGAAGGAGAGGAAAAGGAAGATAAAGAAACCCGAAA GA ACCAGACGCAAAGAAAGAGACAGGAAGGGAAGGAGAAAAAAG $G C C G G A A C C G G G G G A C A A A A A G G G G G G G G A G A C G G G G G G A G C$ CACGGAGGGAAAAGGAAGGCGAAAAGACAAGAGAAAAAGCAA A C C G G A A A G G G A A A A G G G G G G A A C C A G A C A G A G G G A G G G A A G GAAGGGGAAGGGGGGAAGGCCGGCCAAAAAGAAGAGGCAAAC A G GCCGGGGGGGAAAAAAGGGGGGACCGGAACCAGAAAGGGC CAAAAACAGCACCCAAAAAGGAACAAGGGGGACAAGGAAACA A G A A A G GCCAGGCAACCAGAAGGGGAGAAGGAAAACCAAAAG AGAAACCGGGGACCAAACCCAGGAAGGGAAAGGGGGAGAGGG

A ACAA $\mathcal{A} A \operatorname{A} A A A A A G A A A A G A A A G A A G G G G A A A A A A G G G G G G G$ GAACCGGGGGAAGAGAAAGGGAAAAGGAAAAGGAAGAAGAAG ACAATGGGGAAGGCGAAAGGGGGACAAAAGGAGCCCCAGAAG AAACAGGAACCCCGGGGGGAAGAAAGGGGGAGGAGAAAGAGG G G GAACCAAGAAAGGGGCCGGAACCGGAACCAAGGGAAGGGA A G G A A G G G G A G A G G A G G G G A A A A G G CAAGGGCAAACAAAAAA AAAGGGGCACCAAAAAGAAGGAAAGACGGAGGGGGAGGACAA AAGGAAAGAAAAGAGAGAAAAGGCCAGAACCAAGGAAAAAAG
 A GAGGGAGGCCAGGGCCAAGGTTGGAAGGGGGGGACCGGGGA G GAAACAAGAGCCAAAAAAGGGGCCAAAACCCAAAAAAAGBA A A A G G A A A A A A G G G G G G G A C C A A G G G G A A G G G G G G G A G G G G A
 GAAGGCCAGAGCCGGGGAATAAAAAGGAAGGAAGGAGGAAAA A A G A A A A A GAAAA A A G G G G G GCCGGGGAAGGGAAAGAAGA GA G GAGGAAGAAGCCCAAAGGAAGAAGGAGGGGAAGGAAAGGGG A A A A A G G GA $\operatorname{A} G A \operatorname{G} G A A A C C G G A T G G A C C A A A G G G A A G G G G A G$ AACGAAAGAGGGAGAAGCCAAAAAACCAAGGGGAAAACAGEG G G G G A G A G A G G G G G G G G A A G G A A A A G GAAA A G G G GAAA A A C G GAAGACCGGGGAAAAAGAGAAAAGGAAGAGGAACCAACCCCC $C G G A G G G A A G G A A G A C C C C A G G A A A G G G A A A G G A T A A G A G C T$ TAAGGAAGGAAGACCACAGAAAAAGCAAGTTAAAAAACCGGA A A G A A A A G GCCGGAAAACCAAACAAACAAGGAGAAAAAGGBA A A A A A G G G GA $A \operatorname{G} A A A A G A A G A A G G A G A A G G G A A A A A G G A G A A G$ GCCGGAAGGAAGGAAGAGGGGAAAAGGAAAGGAACAAGAA GA GAAAGAGACAAGACCAACCGGGGAACCAGAACCGAGGGGGGA C G GA $\operatorname{G} C A G G G A A A C A G G G G A A A A A A G G G A G A G G G A G G G G G G G$ GAAAAGCGGAGAGACTTGGGGCACACGCCGGCAGGGAGAAAG GAAAGAGCAGAAAAGAAGGAACCGGAAGGGGTTGGAAGGGGA G G G A A C C A GAAAAGGGGGGCCCCGGGGCCGAAGGGCAAAGGA G G G G A A A A A A A G G C A G G A G G G T T A A A A G A G A G G G C G G C C G A G A A A A A A A A GAAGGGAACAAGGGGGGAGCCAGAACAGAAAAAC C GAAACCAAAGCCGACCAAGGGGAAAAGAGGAAAAGGGGGGC G GACCGGAAGGCCAAAAGGGGGGCCGGAAGGAAAAAAAAGGA ACCCCGAAAAAGAACGGCGAGGAAAGGCCCAGGGAAGAAAAA $A C C G A A G G G G A A G G A G G C A G G G G G A A A A G A A G A A G G G G A A C A$ CAA $A \operatorname{GA} A G A G G C C G G A G G A G G A G G G G G A G G A G G C A G G A A G G A$ A G GAA A G GAAAAAAGGAGGGAGAGGAAAAGGGGGGGAAAGAA $A C C G A C C A G C C G G A G G A A A G A G G G G G G A A A G A A A A G G G A A G A$ A G G A A C A G G A A G G G G G G G G G G G A A G A A G G T T G G A G C C G G G G A AAAGAAGGGAAGGATAAAAAAGGAAAAGGGGACAAAGGAAAC A A A G G G A G A A A A A G A C A G A A G A A G G G G A G G G G G A A A A A G G G A A GAGAGGAAACAAAGCCAGAAGGGAGAAAGGGGCCGGGGGGA ACAGGGAAGCAAGAAAACCAACAGGAAAAAAACGAGGAGGGG G G G A A G G G G A G G G G A G G A C G A C C G G A G A A G GA G A A C A A A G G G GCCGGAGCAGAGGGAAAGACCAGGGAAGGGGCAGGCCGGGGC C G A C C G G G A C C A A G GAAGAACAAGCAGAAAAGGAAAACCCCA C GAA A A A A A CAA A G G G G G G GAA GAACCAAAAAGCC GAAAGGG G GAA ACCAAGGGGGGAAAGGAGGGGAGAGAAGGGAAGGAAAA A G G G A G G A G A A G G G GAGAGAAAGAGCAGGAAAAGGGAAAA GA G GACCAAGGAAAAAACCAAGGCAAGAAGAAGGGGGACAGAAA G GAGGAGGAAAGCAACCAGAAGAAGGGCAGGGGAAGAAAACA G G G A G G G A A G G A G G A G G A A G G A A A A G G G G A G G A A A G GAAC C C CAGAGAAGGGGAGAAAGGGAGAAGGGGAAAACCGGCACAAGG GACGGCCGGCCGAGGCCAGAGGGCAGGGGCCAAGGGGGAAAG AAAGGGACCGGGGGGAAAAACGGAAGGCCGGAAAAGGAAAAA
 A A G A A A G G GCCAAAAACGGGGGGGGGAAAACAAGGAGGGGGAA $A G G G G A A G A G G A A C C G G G G G A G G G G A G A G A G G G C C G G G A A G A$

A G G GACAAAGAGAGGGAGAGGGAAAAAAAAAAAAAAAGGCA CAACCGGGGAGGGACGGGAAAAGAAAAGGGAAGAAGGGAAGG
 A G G GAA A A G G G G GAGAGGAAGGAGGAGGAGAAGGAAACAAGG G GAGGGAAAAAGGGGAAGGAAGGGGGGAAAGGAGACC GAAAAA GAGGAACAGAAGGGCCAGAGGGGACAGACAGAGAACAAAGAC CAGAAAAGGAAACAGGGGGAACAGGAAAACAAGAAAAAGAAC CAAAAGGAAGAAGGGAAAAACGGAAGGGGAAAAAAGAACGAA AAAAAAGGGAAAGGAAGGGAAAAAGGGAGAAGAAAAAACGGA G GAAACCGGGGGGCCATAGAATTCCAAGAAAAGGACGCCAGA C G GCAA C G G G G G G G GAAAAAGTTGGAACGAAAAGGGGAAAAC A A A A G G G G A G G G G A G G G G A A A C C G GCCCCGGAAAGAAA GA G G G G G G G G G G A A A G GAAAAACAACAGGGGAGGGGGGAGAGGACAA A G G G G A G G GAGCCCCAGGAAGGGAAGAGAGGGAGGCCGAGAA $C C C C A A C A A G G A A G G A A A G C C C C A G A A G A G A G A A A G G A A A A A$ AAGGGGAGGAACCAACCCCGAGGAGGAAAAAGGAAAAGGGGG G GAGGAAAAGGGAATAAAAAAGGGGCCGGGAAAAAGGGGCCG GAAAGCACAAGGGTAAGACCCGACCAGGAGGAGAGBAAACCC
 ACCGGGAGACCGAGGGGAAGGGAAAAACCGGGACCCAAAAAA A A A C G G GAA A G G G G GAAAGGGAGAAGAAGGGAACCAAAA GAA A A A G GAA $A$ A $A \operatorname{G} C A A A G A G G A G G A G G G G G G G G A A A C G G A A G A A$ GAGGGGAGACCAAGGGGCCAAAAAAGGAGGACAAAAGGAGAA GA $A \operatorname{GG} A A A A A A G T A G G A G G G A A A A G G G A G G A A G G A A A G G A A G G$ A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAGAAACGGGGAAAGAGAGAAGAGAAAACGGGAA A G G GAA A A A C CAAAA A A G G G G A A G GAGGGAGAGGGAAAA G GA A GAAAAAGGGGGACCGGGGAGCAAAAAAAAGAAGGAACABAA G G G G G A G G G G G A G A A A A G GAA $A$ A A A C GAGAGGGAGGGGAAAA G $G G A A A A A C C G G G G G A G G G G A A A G G G A A G A G A G G A C G G G A G A A$ GAGAGGGAGGGAAAAGGGGGGGAAGGGAAAAACAGAAAAAAA GAGCCAGAAGGAGAGGAAGATAAGCAGGGCCGAAGAAAAGBC A GAGGGGAAGGAAGGGGGGAAAAGGGGGGGGCCAGCCAAAAG G G GAGAACAGAGGCAAAAAAGAACCAAAAGGAGGGAAGAAAA G G GAA $A \operatorname{GGGAAAACGAAAAAAAGAAAGGAGGGGAGGAAGAAAG}$ GAGGGAGAGAACAGAGGAAGGGGGGAGAGAAGGAAGAAAAAG G G GACAGAAAGACACGGAAGAAACCAAGGAAAAGAGG
G G G GCCAAAAGGGGAGGAGGACAAAAAAAACCAGCACCGGA A G GAGGACCAAACGGGGAAGGACAGAAAAGGAAAAGGGAGGC
 A CAA $A \operatorname{G} G A A A G G A G A A G A T G A A A A G A G A C G G G G G G G A A A A G G$ AAGCAGGAGGAAACCGAGAGGAGGGAAAACGAAGGCAAGATA G G GAA $A \operatorname{GAA} C \subset G G A A A A A A G G C C G G C C C C C C A A G G G G G A A A G$ G G G G G G GCCAAAAAAGGGGAAGGAAGGGGGGAACCAGGACAA GAAGGAGGAAAAAGGGGAAAGATGGGGGGAGAGAAAAAGCAC AAGCAGGAAGGAGAAAAAGAAGGAAAAGGGGAACAAAAAGAA G G G A A A A A A CAA A A G G GAGAAAGAAAAAAGGAACCAAGAAGA AAACAGCGGGAGGAGAAAAGGAAGGGGCCGGGGAGAGGAGAG A GAAAA AAAGAGGAAAAAAGGCCGGGAGGAAGAAGCGACGAA A G GAA A G G G G G G G G GAACACC GAAGAAGGCCAAACAAACAGB G GAGAGGAACCAAGGAGGGAGATGACGAAGGCCAAGACAAAG GAAGGAGGAGAGGGGAAAAGGGGAAAGGAAGGAGAAAACAAA $A G G C C G G A A G G G G A G A G A A A A G G G G G A C A A G A A A A C C G G G G G$ $G C C C C A G A G G G G G A C A G G G A A G G A A G G G G G G G G A A A A A A C C G$ GCCGGGGAAGGGGAAAAAAGGGGCCAAAAAAAGAAGGGGTTA AAAAAGGCCAAAAGGCCGGGGGGCCGGCAAGGGAAGGAACAA GAA A A G GAGGGAAAAGGGGAAAAGGCCAAAAAAAAGGAGGGG A G GAA A A A A GAGAGGAACCAAAGAAAAAAGGAGGGAAAAAAG GAGGAGGGGGGCCGGAATTAAAACACAGGAAGACCAGCAGAG $A C C A A A A G G A G G G C A A A G G A A A A G G A C A A G G A A G A A G A C G G G$

G GAAAACGGAAACCAAAAGGAGCCCAAGGAAGGCCCCGGAGA GAGGAGGCCAAAAAAAAGGCCAAGGAAGGGGGGAGAAAAGGC C GAAGGGACCAGACCGGGAAAGGAAGAAACCGGAAGGCAAAG GCCGGAAAAAGGGGAGAGGCCGGGAGAAAAAGGGGAGGGAGA $A C C A A G G A A C C C C A A A C G G G A G A A A G G G G G G A A G G G A A A G G G$ GAA $A$ A A A A A G GAAAGGAAGCCGAAAAACGGGAAAAGGGAAAA GCAAAA GAAAAAACCGAGAAACCGGAAAAAAGGGAGAGAAGC C G G G G G G C C G G G GAGGAGGAGAAATAGAAGGGGAGGGCACA G G G G A A G G A A A G G GA A A A G GAGAGGGAGCAAAACAAGGAAAAA AGGAAGGGGGGGGAAGGGAAAGAGGAAAAAAAGAGAGAAAGA TAAGGACAGAAGGAGGGGGGAAAGGCAGGGGCCAAGAGGGGG A A GAG A GAAAGAGGAAGAAAGGAAAAGGAAGGGAAGBAAAAAA A GAACCCGAAGAAAAAAAACCCCAAGGCCGAGGTTAAGAGAG A GAACAGAAGGGAAAAAAAAGGACAAGGAGGGGAAAGGAAAA GAAACAGGGACCAGAAAAAAGAGAGACAGGAAGGAAGAAGAG GAGGGGGGGGGCACCAAAAAAAGAACGAGGGGGCAGAAAAGAA A G GAA A G G GAGAGGAAAAGCAGGAAGGAACACCGGACAGAGG A GAGAAAAAAAAAGGCCGGCCAAAAGGGAGAAGGAGGAGA GA CAGCAAAACGGAGGGAAAAGGGGACAGGGGAAGGGAAGGGGA G G G A G A C G G G G A G A A G G A G G G C A A G A G G A A A A A G G G A A G G G A A G G G GAAAACCAAAAAAAAAAGGGGGGCCAACCGGGGGGGGG G G G G G G GAAAAAAGGAAGGCCAAGGAAGGAAGGAAGGCAAAG A A G G G GAGACCCCAAAAAAGGGGAACCAACCGGAAGGGGGAG
 A A A G G A A G A G GCC G G A A G G A G G G G G CC CGGAATTAAAAAAAC A GAGGGAAGGAAAAGGGAAAGAGAAGGAGGGGGGAGGGCAGAA C GAA $A$ A A GAAAGGGAAGGAAAGGGGAGCCAAAACAGAAAAAA GAGACGAGGAGGGAAGGGGAAGGGGACGGGGACGAGAAAGAG A G GAAGGACGAGGGGGGCCGGAGAAAAAAAAAG
 AAAGGAACCCCCCGAGGGGAGCAGGGAAGGAGGCCGAAAGAA $A C C A A A A G G G G A A G A G G G A C C G G G G A A G G C C G G A G C C G G A G A$ A A GCCAAGGGAGGAAGAAAAGAGAGAGACGGGGCCAGGGGAA ACAGAGAGAGGAAGGACAGAGCCGGGGAAAAAACAGGGGGAC ACCAAACGGAACCGGGAGAGGAAAAGAAGGGGGCCGGCCGGG
 AAGAAAAGGAACCAAAAAAAAAAAACCAGGGGGCAGACAAGA A GAAA A A A A A A G G G GAGAA GGGGAAGGAAGGCCA GAGGAA GA GCAGAGGAAACGAGAGAGAGAGGGAAGAGCCAACCAGAAAAG G G G G G A A C C G G A A C C C C G G A GAA A G G G TAGGCAAAAGATAA G GAAAGGGGAAGAACCAAGGAAAAAAAATTCCGGGGCCGGGAA A A A A G A A G G G G A A A A A A A A A A A A A A A A A G G G CAAAACA A A A G AGGAAGGAAAGAAGGGGAAAAAGGGAAGGAGGGAAAACCGGA AAAGAACGAACAGACGGAAGGAAAACAGGAAAAGAAGAGAGG GAAGAGAGAGGAACCGAGAGGAGAAAGCCGGAAAGAAAAGAG GAGGGGGAAGGGAAAGGGGGGAACCCAGGAAAAAAGGAACAG G GAAGAGAGCAACGCCGAGGGGGGGGAGGGGAGCAAAAAGGA A A A A A A A A A A GAA $A \operatorname{GGG} C \subset A A G G G A A G G G C C G G A T G G G A A A G$ GAGGAGACCGAGAAACAAAAAAGGACATTAACCGAAAGGGGA
 GACAAAGCCGGAACCAAGGAAAAGGAACCGGAGAACAGAGAA A G GAA A G A A A A G GAGCGGAGAGGGGAAGGAAGAGGAGAAAAA CAAGGGAAAGAGGGGCCCAAAGGAACCAAAAAACCGAAACGA $A C C G A G A A A G G G G G A A G A G A A A C A G G G A A G G A A G G A A A A G A A$ A GAGGAAAGATAAGAAAGGGGCAAAACGGGGCAAAAAGAAAG GAAAGGAGGAAAACCGGAAAAGGAGACGGAAAACCAAGAAAA A A A A A A G G GAACCGGGGAAAACCGGACGGAAGAGGGAGGGAA A G G G G A G A GAA $A \operatorname{GGG} \operatorname{GAACCGGAACCCAAGAGGAGAAGGAAAC}$ AAACCGGCCCAAAAAAAGAAGGAAGGACCAAGAAAAAAAGGG

GCAGAAAGGAAGACCAAGGAGGGAGGAAAGGAAAGGGAGGGA A G G G G G GAAA A C C A A A A A A G G A A G G G G G G GAAA A GAC GA A G A GAAAAAAAAAAAAGGGGAAAACCGGAGGGCCAAGGAAAAGAA A G GAAAAAAAATTAAGGCAAGGGGGAATTGGCAAAGGGAAAA AAAAGGGAAAAAAGAAAGGGGAAGGAAGAAGTAGGGGAAGAA A GAAAGAAGACAAGGGGGGCAGAAACCGGGGAAAAACAGGGG GAACGAGCCAGCCAAGGCGCCGGAGCAAGAAGGCCGGAAAAA AGACCCCAGCAAAGAGGAAAAAAAACCAAAAAGAGGGGACCA A A G G G G G T T A A $\mathcal{A} G A G G G A A A A G G G G G G A A A A A A G A A A A C A A A$ A GAAAAAGGAAAAAGAGAGAAAGGGGGGGCAAAGGGAGGGGG GAGGGGGGAGGAAGAGAGGAAAAAAGGGAACGGGCAAAAAAAA GA $A$ A A $A G G G G G G G G G G A A C A G A G G G G A A G A A G A A A G A G A C C C$ C G G G A G G G G A GCC G G A G C C G A A A A A A G G G A G G G A G T A G G G G A A A GCCCCA GAAAGAACCCAGGAGGGAGCCAAGGGGGGGAAAA A GAACAGGGAGAGAAGAGGAAAACCGAGGGGCCCCAAAAAAG GAAGGGGTTCAGGAGAGCCGGGGGACCAAAAAAGGCCAGGAG A G G G A G G G G G G A G G A G A G G A A A A A A A C G G G GAAAA A GAAA A A G G G G A G G G G G G G G G A A G G G G A A A A GAGGAC GAAC GAACAAAAA A A A A A A A A A A G GCGAGAGAGGAGGAGGGACCGAAAAAAAAGAG GAAGGGGAAGGGGGGAAAAGGAGGGGGGAAGAAAAACGCAGG A G G GAGAAAAACCGGAAAGGAACAGAGGGCCAAACGGGGGGA GAGCAGGACGAGGAAGGGGGAGAAAGAGGCAAGGAGAACGGG A A G A G A A G A C C G A A A G GCC G G A G G GCCCCAAGAGGACAAAAG G GAGGGAAAAACCGGCCAAGAGAACCAAAAAGGAACCAAAAG GAAGGAAGGAAAAGGAAGGCCAAGGGGAAGGGGGGGAAACCG G G GAAAAGGAACCAAGGAACCAAAACCCCGGCCGGGGAAAAG GAAGGAAAAAAAAAGCCGGGGACAGAAAGAAAAAAGGAAAGA GAAAGAGCCCACCAAGGAAGGGGAAAAGGAAAGAAAAGAGAA G G G G G G A G A A A A G A A A G C A G G G G A GAA $\mathcal{A} G G G G A A A G G C C G G G$ A A GCAACGGAAAACAGAGGGGGGGAAGGGAGGGACGGGAACA G GAGGAAAGGGCAAAAGAAAGAGCCAAGGAAGAGACCAAAGA $G C C A A G G A G G G A A G A A A A A C C G G G G A A C C A A G G G G G G G G G G G$ GAAAAGAGGGGGGAAGGCGAAAGTTAAGGGAAAGAAACACCA G GAGGGGAAAAAACCGGGAAGAGAGGAACGAAGGACABAABA G GAGGAAGGAAGGGAGGGGCCCAGGAGAGAGCCAGGGGAAAG GAAAAAAAATTAAAAAGCAAAAGGGGGGGAGAGAGAGGAAAA G GAAGGAGGACGAACAAGAAAAAAAGGACGGGGAAGAGAAAA A GGCCAAAAAGGAAAAAAAAAAAAAGGGGGAAAAAAAGBCAA
 GACAAAAGGAAAGAGCAAAGACCAAAAGGAGGAGGACGGGGA AAGGGGAAAAAAAAAAAAAAAAACCGAAAGGGGGGGAAAGAA A G G A A G G G A A A A A A A G G A G G A C C G G G G C A G G G A G G C C C C A G G G G G A A G G G G G G A A G GAA $A \operatorname{GAA} A G G G G C C A A A A A A A A G G A A A A G$ GAACAAGGAGGAAGGGGAGCCGGAGGGAAGGCCGACCAAGGG GAATTGGGGAAGGGGCCGAAAAAGAGGGGGAAGGGAGAAAGA

 A G G G G G G A A G G G GC C G G G G G A G G A A A A G G G A A C G A C C G A G G G GAGGAGGGGAGGGAAAAAGGGCAAGGGAGGGAAAAAAGGGGC C G G G G C C G G G G A A A A $\mathcal{A} A G G G G A A G G A A G G A G A A G G A A G G G G G$ G G GA $\operatorname{G} G \mathrm{G} G \mathrm{G} G A A A A A A G A C C A A C C G G G G A A A A G A G G G G A G A C A$ A A A A A A A A GGGAAGAAGAAGAAGGAAAAAGGAAAAAAGAAAA
 A A GAGAAGGAGGAGGGAAACAAGAAGGAAGAAGGGAAAGAGA T G G G GCCAAGGTTGAGGACCGTAGAGGAAGGAAAAAAGGGGG
 GATGAAAACGGGGAATTGGAAAGACAGGGAACGGGCCAGCAA A G G G G G G A A GAAA A GAAC C G GAAAAAAAAAAAAGAGGAAAAC CAACCGGGGAAGGGGGAGAGGAAAAAAGAACGGAAGGGGGGA

A A A A A A A G A A GAGGGAAGAGGGGGAGAGGGAAGCAGAAAAAC CAACCGGACAAGGAAGGAAAAAAAAGGAAGGACGGCAAAAAA GAAGGGGAAGGGGAAGGTTCCAAGGTAAAAACAGGGAAAGGA GAGGAGAGAAAGGAAGGCCCCAAAGAGACGGAAAACAGGGGG GAACCGGAGGGGGGGAGGGGGAACAGGGGGGGGGGACAAGAA A G G G G G A A A A A G A A A G GCCGAGGAAAAAGAGAGAAAAAAA GAC CAACCAAGGAGGGCCCCGGAGAAAAAACAGAGGAGAAAAGBA AAACCAAGGGGGGAAGGTTCCAAAAGGCCCCAAGGAAGCCCG G G G G G A C C C A A C C G G A A G G A A A G A A G GAAAAA G GAA G G G G G G G GAAAAGGAAGGAACCGGGAGGCAGGAAAAGAGAGGGGAGCAG A G GAA A G G GAAAAAAAAAGGAACAGAGGGGGGGGAGAAAAAC
 A A G G A A G G A C A G A GAGAGGAAAAGGAAGGGAAGACAAACAAA A A C C A G A A G G G G G C C G G G G G G A A C C G G G A A G G G G G A G A G G G C A G G G G GAA A ACAGAACAAGAAAAGGACGGCCGGAAGGAAAAC $C G G A A G G A A G G G G A A A A G G A A A A A C A G C A G A A C A G G G G A G G G$ G GACCAAGGAAAGGGAAGGAGGGGAGGCCAGAGAAGGACGAG GAAGGGGGGAGCAGGGGGAGGCCAGACGGCCAGGGAAGGGAA AAAGGGAGGGGCCGGACAGCCAAGAGAAACCGAGACAGAGAC CACGGAAGGCAGGCAGGGGAAACAGGGAGCAACGGGAAGGGG GAGGAAGAGAGAGGGAACCGGGGGAAAGGAAAAAAGGGAAAA A A A A A A G A A A G G A A A G G A G G G G G C C T T G G G G A A G A G G G G A G G GAACCAAAAAGTACAAAGGGGCACACCCCCCAAAACACCGGG GAACCAAGGGGGAAAAAGGAGAGCCAAAACCGGGGGGGAAAC C C C G G A A G A GACCAAAAGGGAGAAAAAGGAACC GAAA GAAGA A A A GAA A GAGAA $A$ A $A \operatorname{A} G A A G G G A G G G A G G A A C A G A A C A G A G G A$ G GAAGAGGGGAGGAAGGGGCACCAGAGGAAGGAGGAGGAAAA GAGAACCGGGGCAAGGGGGAGAGAAGGAAGGGGGGAGGAAAG GGGCCAAAAAAAAAAAAAAAAAACCGGAAAAAAAAGG
A A A A A A G G G G G G G G G G A A A A A A A A A A GGGGCCGGAAAAAAG $G C C A A A A A A G G C C A A G G G G A A A A G G G G G G A A C C C C A A G A A A C$ $C G G A A G G G G G G A A G G G G A A A A G G C C G G A A G G A A G G G A A A G G G$ GAAGGAAGGGGCCGGGGCCGGAAGGAAAAAAGGAAAACCGGG G G G G G G G G G G G G G G G A A G G G G C C G G C C G G C C C C G G G G G G C C A A G G A A G G A A A A G G A A G GAA A GAA A G A A A A A A GGCCGGACAA G $G C C A A A A G G A A G G G G A A G G G G A A A A G G G G G G G G G G G A A A G G G$ G G GCCAAGGGGAACCTTCCGGTTAGGAATAAGAGGGAAACAG GAAGGGGAGAAGGAGAAGGGGGAGGGGCCAAAAGGCCGGGGG G G G A A G G G G A G G G G C C C A G GA G G A A A A G G A A G G G G A A C C G A G GCAGGAGAACCGAAGAAGGACAGAGAAGAGGAAAAGGCAAAAA AAAGAAAAAGAAGAGGGAACAGGAAAAGGGGAGAAAAAGCAA
 GAAAAGAAGAGAAGGACAGCCGGAGAAAGAGCCAGAGGAGGA $A A G G A G G A A G G A G G G C C G G G G A G A A G G A A G G A A A G G A G A G G G$ GAAGGCCTTCCCCAAAAGGAAGGGGAAAAAAGGGBAAAAGGG G A A A A A A A A G G A A G G G G G G A A G G A A G G A A A A G G G G A A A A G G A AAAAAAAGGCCGGGGAAGGCCGGAACCAAGGAAAAAAAACAA AAAACACAAGAAAGACAAAAGGGGAGGGGAGAGAGGGGGAAA A G G G G G G A G G GCC G G G G G G G GAAAAAC A A CA A A A A A GA G G CA A A A A G G A A A A G A A G G GAAAAAAAGGGGCCAGAAAAGAAGGAGGG GAAGGAAAGAAGAGAGAGGCGCCGAAGGAAAAGGACAAAAGG GAAAAAAGGAAAAAAAAGAGGAGAAAGAAAAAGGGAAAACCG G G G A A A C A GA G A T A A G G A A G G A A GAGGGGGGCAAGAGGAAAG GAGAGAAAGCGCCAACCAAAGAAACAAAAGGAACCCCGAAC G GAAGGAGAGGAAGGGGGAAAAAGCAAAAAAAGGAGAAGAGAG GAAAGAACCGGGGAAGGGGGGGGAAGGGGAAGGCCAGAAGAG
 CAAAACCAAAAGGGACAAACCAAGGGGGGGGAGGGGGGGAGB $G C C A A G G A A G C A A A A A G A A A G A G A A G A G A A G A A A G G A A G G G G$

AAGAAGGCCAAGGCCCCGGGGGGGGAAAAGGAAAAGAGGCAA C G A A A A A G G G G A A A A $\mathcal{A} G G G G G G G A G A G C A A G A A A A A A A A G G C$ CAAA A $A \operatorname{AG} \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A \operatorname{A} C A A G G G G G G G G G A C A G A A G A G G G G A G G$ GAAGGGGAACCTTGGACCCGGAACCAAAAAAAAAGAAGATAG G GAAA A A GAGGAGGAGAAGGGAGAGAAAAAGGGCCGGGAAGG GCAGACCGGAGGGAAGGAAGGAAAAAAACAGGAAAGGCAGGG GAGCGGGGGAGAAGGAGTTGAAGAAGGGGAAGGAAAACAAAA AAAGAAGAAAGAAAAGAGAGGCCGGCCGGAAGGAAAAGAAAG GCCGGGGGAAAAAAGAACCGGGAAGCCACGAGAGGACGAGAA AGGAAGACCAAAGGAGGCCGGAAAGGAGATAAAAAAAGGCCA ACCGGAACCGAACAAAAGGCCGAGGGGCCAAGGAAGGAAGAA A A A A A A A A A A A G GCC GAGAGAAGAGCACCCCAGACCCCAAGC
 AAAGGAAGAAGGAAGAGAAAGAAGAGGCCAAAGAGAABAGGG A GAGGAAGGGAAAAAAGAAAAGGGGCCGGGGAAAAAGGGGGA AAAGGAAGAAGAGGGGAGGACACAACCGGGGAAGAAAAAAGAA G GAAGAAAAGAAACAGGAAGAAAGAAGGAGACAAAAAAAAAG
 $G C C A G A A G G A A A C C C G G G G A A G G A A A A C A A A A G A G C C G A G G A$ GAGAGATGGACGGAGGAGGAAGGAAAAAAGGGGAAAAAAAAA AAAGGCCCCGGAAGGGGCCGGGGAACCGGAAAAGGGGAAAAG GAAGGCCAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGGAAAG GAACCGGGGGGAACCAAGGAAGGAAAAAAGGGGAAAAAAAAA $A G G A A C C T A G G G G C C A G G G G G A G A A G G G G A G G A A G A A A A G G G$ GCCGGGAGGGGGGAAAAGGAAGGAAAAAAAGAGAAAAAGAAA GAAGAGAGAGGAAAGGGGGAGAAAAAAGGGAAGGAGAAAGGG G G G G G G GAGGAGGAAAGCCAGGGCAGGGGGGGAAGGGCAGAC A A GAAAGGAAGGAGAGGAAAAAGAGTTAAGGACAAGAGAAAA A A GACAAGGGAACAAAGAAAAAGGGGGCCGAGGCCTTCAAGG
 $T G G A G A A G G A G C A G G C A C C A G A A G A C C G A A A G G G A G G G A G G G$ GGGCCATAGGAAGAACCGGAGAAGGGGGGAAGAAGAGGAAAA A A A A G G G G G G G A A A A A A GAGGGACAACGAAGGAGGGGAAA GA C C A C C A A G G G G G GAGGGAGCAGGGGGGAAAGAAAGGGGGGGA A GACCAAAAACGACCGGAAGGAAAAAGGAGACCGBAAAAGEC ACAGGAAGGAGCCGGGGAAGGAGTAAGAAAAGGAACCAAGAA AAACGAGTAGGAGGAAGGAAGAGAAAGCCAAAGAGAAAAAAA CAGAGGAAAGACACATACCGGGGAAGGTTAAACACAAAGGAC CAAAAGGGGGGGGAAAAAGTACAGAAGAAAGGGAGGACAAGA A G GAA A A G A C CAGCCCAGGGAAGAAAGAAGGGGGAAAAAGAG G G G G G G G A A G G GAGGAAGGCAAGAAAAGGGGAAAAAAGAAAA GAAGAGGGGAGGGGGGAGGAAGGAGAGAGAAGGGAAAGAAAA GAGAACAAAAGGGGGGGGGGGGAGAAAGGAAGGAGAGGGGGT
 A A A A ACCCCAAAAAAATGAGAAATTTTCCAGAAAAGGAAAAG GAAAAAAGGAGAACGGGTACCAGGGCCAGTACCGGGAAAGBA
 G G GAACCGGAAAAAAAGGGAAAAAAAAAAGGGGAGGGAACCC GAGGGCGAAAAGGAACCAAGGGGAGGGAGAAAAGAAGAAAAG GAAGAGGGGAAAAAAAAAAGGAACCGAAGAGCAAAGGTTCCA $A C C G A C C G A A A G G G A A A A G A A A A G G G G G A A A A A A A A A G G G G G$ G G G A A G G G G G G A G C A A A G G A A A A A A GGCAAGGGAACAAATTA $A C C A G C C G G G G A A A A A A A G A A G G A A T A G G A A A A G G A A G G G G A$ AAACCAAGGGAGGAGGGCCCAAGGAAACCGGAGAGCCCCGGG G G G G A A C A G A A G G A A T T G G G G G G A A A A G G G A A G A G G G A G G G G GAGAGGGAGAAGGTTAAGGAAGGGGAAAACCAAAGAGACGGA TGGAGAGCCGGGGGACCGAACCAGGGGCACAACCCTAGATAT TGAAAAAGGAAAAAAAGAAGGGGGGCACAAAAAAAGGGAAGG G G G G G GAA A GAGGAAGAAAACAAAAGGGAAGAAGGCCGAGAG

A G GAAAAAAAAGGCAGACCGACGGGAGAAAGGAGGGGAGAGA A G G A GCCAAA $\mathrm{C} A \mathrm{~A}$ T G GAAAACAGACCGGGGGGGGCAAGGAGAA A A A A A A A A A A G G G A A A A A A A G GATTCCAACCAGTTGGAAGGC A G G GAGAAAGGAACCAAGAGGGGGGAAAAAAAAAAAAAGAGA AAGGGAAAAACAGAAAAAAGGGACCACACGACATTGGAAAGA A GAA ACAGAGGAAAGAGAACCAAAAGGAGGGAGCAAAAAAGB G G G A A C A G G A A G G G GAA $A \operatorname{AGGGGGAAAAAAAAGGGGGAAACAA}$ AAAAGAGCCAAGGGGAAACGAAACCGGGGAAAAACAAGACAA $A G G C C A A G G G G A A G G A C A A G G C C G G G G G G G G G G A A A A G A A A G$ GCGAAAGGGGGGGAAAAAAGAAACCGGTTGGACGGACGBAAA A A G TAGAAAAGGGGGAGAGACAGGGAAAAAAAAGAAACAA GA $G C A A A A A A G A A A G G G A A G G G A G G G G G G A A A G A C A A A A C C C C G$ A GAA A ACGAAAAAAGCCGAGGGCGGGACGAGAGAGAAAAGAA A G G G G A G G G G C A G G G G G A A G G C A A A GAA A A A A A A G G G C C G G A GAAGGAACCTTAAAAAAACGGGGAAAAAAAAGGCAAAGAAAA A A A G A A A ACAAAAAAAAAGAAAGGAAAGGAACCAC GAA G GAAA A G GCCAAGGGAAACCGGAAGGACGGAAGAGAAGCCCAGAA GA CAGCAGAAAAGACAGCCAAAAGGCCGGGAAGGGAAGAGGGGA A G G G GAA $\operatorname{G} G C A A A G G A G G A A A A A A A A A A A C C A A G G A A G G C C G$ G G GACAGGGCGAGAGGAAGACAGAGAAAGGAGCGAACCACCA A A A A A A A GAGGAGAAGCAGAAGACAGGAAGGGGGAATAAAAA $A C C C C C G A C G G A A A A A A C C A A G A G G A A A A G G A A A A A A A A G A G$ $A G G G G A T G A A A A A G G G A A A G G G G G A A A A G G G A A G G C C A G G A G$ A G G G G G G G G A A C C G G A A A C G GCCGGAAGGAAGGCC G GAA G G A A A C G G G A G A G G A G A G G G G G A A A A A G C CAGGGGAGGAAAAAA G G G A GAA A A A A A A A A A A A A A G G G G G GAA GAAAACTTGAAACC G GAAGGAAAAAAGAGGGGCCCCGGTTGGAACACAAAGGGGGCA G G G A A A A G G A G G G C C G G G A G G A G G G G G A A A A G GAAAAAA A A A T GAGAGGGAGGGGAAGGAAAAGGGGAAGGAATTGGAA
AAAAGGAAGACCGGAGAAGAAGAAGGGGAACCGGAGGAGCG A A GCC GAA C C C CAACCGAAGGGCAGGGGAACACAGAGGGAAAG G G GAAGGAAGAACAGAGGAGGGGGAGGAAAAAAAGAAAAAAG G G GCCCAAGGGAAAAGGCCGAGGCCAAAAGGCCGGAAAATTG GAGCGAAGGCAAAAAAAAACCCCAAGGGGAACGGGAACAAAT TAAAAACAGAAAGAAGAGGAACAGAGAGAAGGGGGGBAGCAG G G G G A A A G G A A GA G G CA $A \operatorname{GA} A A A A A A G G G G A G G A G A A A G A G G A$ A A GCCAAGGGGAGAACACCGGGGCCAGAAAGAGGAGGGGAGG A GACAGGAAAAGGAAAGCCAAAAAGCCAGAGAGTTAAGAAAG G G G G G C G A A G G GAA A A A A A G GACAAGGGGAGGGAA GAGAA GA
 GAAGGGACAGGGGCAAAGGGGAAAAAACCAGAAAAGGGAAAG GAAGGAGACAGGGCCGGGGCAGGAAGGGAAAAAAAGGGAGGG G G GAA $A \operatorname{GAA} A A A G A G G G A A G G A A G G A G G A G G G G A G A A G A C C C$

 C G G GAGGGGAAAAGAGGAAAAAAAGGGAAAAAAAATTGGGGA A GAGGAAGGAAGGAGAAAAAGAAAGAGAGCGAAACTTGAGGA
 AAAGGGGCCGGGGAAAAAAAAAAGGAAATACAAAGAAC GAAA C G G A G A G G A C CAGAAGGGGCCAAGGAAGGGGAAGGAAAAAAC C T TAAA A $A$ A A $A \operatorname{A} A G G G G G G G G A G G G A A G G A A C C A A A A G A A A G$ AAACCCCGACAGGGGGAAAAAAAAACAAAAAAAGGGACAGA G A A C A A G G A A G A A G G G A A C C G A G G G A A G G G A G A G G A G A G G G G G AAAAAGAGGAAAAGGGAACAAGGAAACGGAGGGCCAGACAAG GAAGGGGACAGACAACCGAGAGAGGACGGGGAGGGAACAAAG GCCAAGGCCAAAAGGAAAAGGCCAAAAGGAAAACCGGGGGGA
 GAAGGAAGGCCAACCGGGGGGGGAGAAACGAAGGGGAGAGGC $C G G G G A A G G A G G A C A G G A A G A G A A A A A G G C A G A C C A C C C G G G$

A A A G A A A A G G G GAG GAGGGGGGGCCAAAAAAGGGGGGCCGGG GAAA A $A \operatorname{GA} A G G G G A A A G G G A A A A A G A G A G G G G C C G G G G G A A B A$ GAGCCGAAGGAGGGGAGGAGAGGGGAGAAGGGAAAGGGAAAA A A A G G G G GAAAAAGGGAACACAAGGGGGGAAAAAACACAAGA $C G A G G G G G G G G A G C C G A A A G G A G G G G G G G G G A A C C G A A A A A G$ GCCGAGAGAAAGAAGAAAAGAGAAGGGAAGGAAAAGAAAAAG G G G G A C C A G G G G G G A G A A A G G A G A C G A GA G GACAA G G G GA G A $A G A G A G A G G C C G G A G C G G A G G G G A G G G G G A C G G A A G G G A G A G$ G G G A G G G G G G G A A G G G G G G A A G G G G A A G A G A A A A G G G G A C C G AAAAGAAAGGAAGCGGAACCCGGAAAAGGAAAGACGGGAACAA A G GAGGACCAGCCAGGGGAGAGGACGGAAAGACAGGAGAAAG $A C C G G A G A G G G G G G A A A G G T T G G A A A A A G G A G A G G A C G A G B A$ AAAGGGGCCACAGGAGAAGAAAGAGGGCCAGGACCGAAAAAG GAAAAGGGGAAGGGGAAGGGGAAGGAGGGCAGAAGAGAAAAG GA $A$ A A GAGAGGAAAAAGAGAAGGGGAGGACCGGGCGGAGGGG G G GAGGGAGAGGGACAGGGAGGGAGAAGGCCGGTTGGAACAA A A A A A A A G GAAAA A GAAGGAAAGAAGAGGGAGAAACCAAAA G GAAGGGGGGAACCGAAGGAGGGGGAAGGGGGAGAGCCAGCCG $C G A G A A A A A A G A A A G C A G G A G G G G A G A A A G A G G G G A G G A C C A$ G GAAA A $A \operatorname{GGG} G A G A A G A C A A G A A G G A G G G G A A C A G A C A B A A A A$ G GAAGGAAGAGGGGGGGGGAGGAGGGGGGCAAGCGAGGGCCA ACACCAAGGAAGGAAAAGGAAAAGGAACCGAGGCCAAGAAAG $A C C G A A G A A A A G A A A G G A A G A A G G G A G A A G A G G G A A A G A A A G$ $G G A A A C C A G A C A A G G C C G G C C G G G A G G A A A G G G G G A A A A G B A$ A G GAGGAACGAAGGGAAAAAACCCAAAGAGGGGAAAAAAAGC C GAGAAAGAGAGAAGAAGGGGGGACACGGGGAAGGGGGAAAC G G GAGACAAGAAAAAAGAAGGGAGGAAAAGGAAGGAGAAAAA
 A G GAA $A \operatorname{G} \operatorname{A} A A \operatorname{A} C A G G A A A C A A A A G G A A C C A A A A A A G G G G G G A$ A G G G G GACAGACCACGGAAAGGGGGAAAAAAACATAAAGCAA A G G A G G G A C G A G G A A G G A A A G A A G G G G G G G G A A A A G G G G A A $G$ G GA A A G G G GAA $A \operatorname{GA} A A A A A A G G A A G G G G G G G G G G G G G G A A A A G$ GAAAAAGGGGGGAAACCAAAGAGTACCGAAAAAACAGABAAG A A A A A A A A A G G A A GAAAAAGGGAACGGGAAAGGCAAGAAGAG
 A A G G G T T G G G A G A GAGGGACAAGGGGGAAATAACCAACCGCC C GAAAGGAGGGGGAGGGGACAAAAGAGAAGGGAAGGCACAAA AACAAGAAGGGAAGGAAAAAGAAGGGGGGGGAGGGGAAAAAG G GACAGAAACCGGGAACGGAAAACCAAAAAGAAACGGGGCAA GAAAAAGGAAAAAGGGGCCGAACAAAGAAAGGAGGGGAAABAA A A GCCGGAAGGGGAACCAGGGGAGAAGAAGAAAGGAAAAGGG GAAGAGGGGAAAGGAGAGAAGGAGAGGCCACGAGGAGGGGGA A G G G G A A G G G G G GC CAGAAAAAGAGCCAAAAGGAACAAAGGG GAGGGCAGAAGGGACGAAAGAAAGAGACAAAAACCAAAAAAA $A G A G A A A G G G G G G G G G G G G A A G G G G A G G A G A A A A G C A A A A G G$ A G G G A GAA A G $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A G G G G A G A A G G G G A A A A A A A G A G A A A$ $G G A A G G A G G C C G G G G G G G A G A C A A A A G A A G A G A A G G A C A A G A$ GAGGAGAGGGGGGAGGGAGGAGATTAAGGACAAA$G G G G G G G G$ GAACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGGAAGGG AAAGGACAACACCAGAAAGGGCAGGAAAAGGAACCGGAAGAA
 GAGCAGGGGGGGGAAAGAGGGGGGGGGAAGGGGCCAAAAGAC $A G G C A A A G G A G G G G G A A G G G A G G G G G G G G A G A A C C G A A A A G A$ A GAAGAGGAGGGGGGGGGGGGTTAAGGAAAACCAAGAAAGGG G G GAGGGGAGGGAGGAAGACAAGGAAAAGAAGGAAAGAAACA TAAATAAAAGGAAAAAAGGAAGAAAAAGGAGAGGGGBAGGAG GAAGGAGAGAGGGGAAAGAAAAAAAGGGGCCGGAACCGGGGT TCAGGGGAAAACCCAAACCGGGGGGAAAAAAGGAAGAAAAAA AGGAAGGAAGGGGAAGGCCACAAACGAAAAGAAGGAAAGGGA

A GAAAA AAAGGAAGCACAAAGGGGATGACCGAACGBAACCG GAAGAAGAGGGCAGGAGCAAGGAAGCCAGAGGGGAAAACGGG C G G G G A G A G C A A G A A A A G G G G G G G G A A G G A A A A T TA G G G A G G AGGAAGGGGAGAAGAGAAGGAAAAAGAAAGGAGGGCAAAACA AAAAGGGCAGGAGGGGAGGGAGAGAAATAGGAACCGGGAGAG C C C G A A C G G G G A A A A G A A A CAA A A A A A C C G GAGA GAA GAAAC C G GCCGGAAAACCGGGGGGAAAAGGGAAAGAGGGBAAAAGEG G GAGGAAAAGGAAGGAGAGGAACAGGGGAGACAGGAAAAACB
 GAAGGGGAAGAGAAAAGCCGGGAAAGGGGAAGGCGGAAAAAC $C \subset C \subset A G C A G G G A A A A G G G G A A A G A G G G G G C C A A A A G A G A G A A$ GAGAGAAAGGAAAAAAAGGCAGGGAAGACGGGGGGAAGAAAG $G G A G C G C C A A G G G A A G G G G A A C A G G G A G A A G G G A G G A A A A B A$ GAAGGAAAAAAAAGAGGGGGGGGGGAAGGAAACAA GACABGAG GACGACAAGCCGGGAAGAAAAAAACAAGGGGAAAAAAAAGGG GTTAGAAAAAAGACAAAAAAACCAAAAGGGGGGGGAAGGGGG $A C C G A G G G G A A G G A A A A T T C C C C A A A G G G G G A G A A G G A G A G G$ $A C C G G A A C A A A A A C C G G G G A A C C A A G G G A A G A A G G G G G G G G G$ $A C C A C A A A A A A G G A A A A A T G G G G A G A G A G G A G A G G A A G A A G A$ A A A C A GAGACCAAGGAAGGGGGGGAAACCGGGGGGAAAAAAA A GAAACCAAAGCCGAAAAAGGGGCCGGGGACAAGGCCGAGGA ACCAAGGGGAAGGAAGAGATAGAAAGGAAGAGGAAGGGGCAA AAACCGGGGGGAGAAGGGGACGGAGGGAGAAAATTAGAAGAA G GAAAGGGAAGAGAGAAGAGGGACCAAAAGGGAAAGGCAGAG G G G G A A A G G G G G G G A A A A A A GAGACATGAGAAAAAA A A A A A A A G GAAGAAAAAAAGGAACCCCGGAACCCAGGAAGAAGAAGAAGG GCAGGGGGGGAGGGAAAGGGAGAGAACGGCAAGCAAAGGGGG G G GAACCGAAAGGGGCAGGGGCCAAAAACAGCCCCGAAAGAA A G G G G G GAACCGGATCCGGACGAAGAGAGAAGAAGGG
AAAAAGAGAAGAAACCGGAGGGGGGAGGAGAAAGGGAGAAA G GAAGAAAAAAAACCGGAAGGAGAAAAGGAAAGGGAAAGCAA GAAGGAGGAAAGGGGAAAAGAGAAGAGGGAAACAAAGAAAGA G G GCAAAAAAAGGAAGGGGGGGGCCAAGGAAAAAGGGCAAAC CAAAAAATTAAGAAAGGGGGGAAGAAAAACCAGAGAGAAAGB GAAGAGAAGGGGGGGAGGGAGGGACGGAAGGGGAAAGAGACA GAAAAAAAAGGAGAAGAAAGGGGAAAGAAAGGGACBAAGACA AGGAGCCGAGGAACAGGGGAAAAAGGAAGACCCGAAGGAAAA AAACCAAAAAAAAGAAGGGGGGAAGAGGGGAAAAGGGGAAGA A G GAA A GAAAGGGAAAGGGGGGGCAGGAAAAACACAGAAGAA A A GAA A G A A $\mathcal{A} G A A G G G G A A G A G A G G G A A G G G G G G A G G A A G G C$ G G G GAGGCAAAGAGAGGAAGGGGAAAGCAGGGAAAGAAAGGA A A A A A A A A CAGAAAACCGGAAAGCAGGAGAGGGAACCGGGGG GCCAAAAGGAACAAAGAGGGGAAAAAGGGAAAAGGAAGGGAG $A C C A C A A G G A A A A T T G G G G G G A A C C A A A A G G G G G G G G G G G G C$ C G G G G G G A A G G G G G G G G A A G GCCA $\mathcal{A} A A A A A C C A A G A G G A G G A G$ A A A A A G GAA A GAAAGCCGGAAGAGGAGGGAGGGAAAGAAAAA G G G C C C C G G G A CA G G G A A A GAGAGGACCCAGGGAA G GAAA GA G G G G G G G A A GA GAGGAGAGGAAGCCAGAGGGACGGAGGAGAA GACAAAAAAAACCGGAATTGAGAGGGGGGCCGGAAGAAAGGG GA $A$ A $\operatorname{A} G A A A A A C C G A G G G A G G G A G G G G A G A G G A A G C C A A G G G$ GAACCGGGAGACCGGAAGGGGACGGGGCAGAGGAGGAGAGCA C G G G G G G G GCC GAAAA GCAAAG GAGAACCA AA G G G G G G G G G G G $G C A C A C G A A A A A A A A G G A A G G A G G G G A G G A C G A G A G A A C A C B$
 G G G G GCAGGCCGGAGGGAAAAACGGACGGACGAAGAGAAACG G G G G G G G G GAA $A \operatorname{GGG} \operatorname{GAAC} C G G G G A A G G A A A C A G G G C C G A A G A$ A G G G G GAAA A G A GACAAAAAAGAAACAGGGAGGGAGAAAGGGG $G G A G G G G G A G A G A G G A A G A A A G A G A G G G G A A A G C C A G G G G G G$ GGGAAGAACAGGAAAACGAGAGGGAACAAGAGAAAGGAGGGG
$G C C G A G G A G G G A A C C G A A A G G A A G G G A G A G A G G G G A A G G G G A$ A G G G G A G A A T T G GAGACAGGGAGAACCAAAAGGAGAAAACAG G G G A A G GA GAGAAAACAAAGAGGGGGGCAGGAGTAAAGGGGG GAAGGCCGAGGGGGGGGCCGGAAGGAGGGCAGGAAACCCGGG G G G G G GAACAGAAGGGAAGGGGAGGAGAGGAGGGAAAAAGAT
 T G G C A G A A G G G G A G G A A A A G G G G G G A A A G G G G G G A G A A C G A G C G G G G G GAAAAGAGGAGAAACAAGGCCAAAAGAAAAGAAAAG AAACCAGAGAGGGAAAGAGAAAACAAAAAAGAGAAAGAC GAA TCCGGAGAAAGGGAAAAAAGAAAGGGGAACGGAAACCGGGGA GAGAGAAAAAAGGACAAAAGGAAGGGCGGAAGGAAGAAGTAA CAGAGAAGGCAGGAAAACCAAGGGAAAGGCCACAAGCGAGGA C GAGAGGCCAAAGAGAGAGGGAGAGAACCGCAAAAAAGGGGG $G C C A G A A A A G G G G T A G A G A G A G G G G C C A A A G A G G G G A A A G G A$ A A A A A G GAACAAAGGCCGAGAAAGGAAAAACAAAAAAGGAGA G GAGGCCAACCGGAACCAAAAAAAACCGAAAAAAGGGGGGAG G G GA $\operatorname{G} A \mathrm{~A} C A A C A A A A G G G A A A G A G G A A A A G G G G G G G G A G C C C$ C G GCCGGCAAAGGGAGAGAAAAGCCGGGGAAAAAAGAAAAAC A A A G G A A G G GACGGGCAACGGGAGGGGGGAAGGGGGGCAAAA ACCAAAAAAAACCACGAACCGAAAAGAAGGAAACCAAAAAAG A GAGACACAAGGAAGAGACACCAAAGAAGAGAGAGAAAAAAG G G G G G G G G GAGAGGGAAGATTAGGGAACCAAAAGAGGAAAAA C GAA A A A A GAGGGAATTAAAAAAGGCAAACCGGAGACCAAAA ACCGGAAGGAAAAAGAGAAAGAGCGGGGGCATAAAAAAAACG G GAAACAAAGGGAGGAGAAGGGGAAGGGGCCGGAAAAAAGGA A G G G G G G G GAGAGGGAGCGGGAAAAGCAGAGACAGAACAAAA $A C C A A G G C C C C G G G G A A C C A A G G G G G G G A G G G G A G G G A A G A A$ GAAA A A A G GAGAGGCGGAGGGAAGAGGAACCAAGGGGCCGGG G G GCCGACCAAGGGGCCAAGGGGAATAAAACAGCAAAAGCAG GGAAAGGCGCAAGGGCACACCAAAAAAAGAGAGGAAAAACAA C C CAACAAAGGAAGAGGAAGGGGAAAAGGAGGGAAAACAAAA CAAAGCCAGAAGAACAGGGCCAAGGAAGGCCGGAAGAAAAAA A GAGGCCGGAACCAGGGAAAACCGGGGGGGCGGAAAACAAAA A A A A A A A $\mathcal{A} G G G G G G G G A G G A A A A G G A A G G G A A A G G A T C A A A A$ A G G G GCCAACCGGGAGGAAGGAAGGGGAAAAAGGGGAGAGAA C G G A A A A A G A A A A G A G GCAACAGCCGGAGGATTAA GAAA G GA C G G GAA A A GCCAAGGGGCCAAAAGGGAAAACAAAAGGACAGA G GAAAAACCAGAAAAAGGGGAAAAAGGGGACGGGGAGGGCCG GAAAAAAAAGGAAGGGGGGAAAAAAAAGGAAGGGGAGAAGAG A G G G G A A A GACAAAACCAAACAACCGCGGCCAAGGAAAAGAA $G G G A A A A G G G A C C A C A A A G A A G G A G A A C A A A G G G G G A G A A A G$ G G G A A T TA $A$ A A A A A G G GAGAACCGGGGGAAAAACCCCGAAAA AAAAAAACCGGGGGGGGAAGGAGCCGGGGGACCAAGGCAAAG GAAAAGGAAGGGGAGGGCAGAAAGGAAAAGGGGAAAAGGGAA AAACCAGAGAAAAGAAAAGCAAGAAAAAACCGGGAAAGGCAA A CAG GCCAAACGGAAGGGGAGGGAGGGACGGAACCGGAATXG GAGCAGAGGGGAGAAGAAAAAGAGGAAAAGGGAGAAAGACAG G G GAGAATTGGAGAAAGGGACAACCCCGGAGCCGGAAGGTAG G G G GAAAAGGGGCAGAGAGAAGAGAGGAGGAAAAGAGAAGAA $A G G G G G A A C A A G G G A G A A A A A G G A G C G G A A A A A A G G A A G G G G$ AAAGAGGAAAAAAAAAACAAAGAAACCGAAGAGGAGGAAGAG G GAAAGGGGAGGGGGCCAGAGGAGGAAAGGAGGGGAACAAGA G G G A A A A G G G G A A A A A A A A A A G G G GA GAAAACAGAAGGTXAA G G GAAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A G A G A A A C C A A C A G A A G G G G A C C C G$ G G G G GAGGGAACCGGAGAGAGGAGGGGCCAGGAGAAGGAGAA A G A A A A A A A A G GAGGGGAGAGGGAAAGGGAAGAAAAGAACAG GAGCAGGGGGAGGAAAAGGAGGGGAAAAAAAGAAAAGAACAG A G G A A G A T T A A G GA A G G G A G G G A A A GGGGAAGGGGA G T T A A A ATAGGGGAGAGAACCAAAAGGCAGGGGAACAGAGGGGGACAA

G G G G G A G G GAAGAGGAAGGAAAAGGAACCGAAAAAGAAACCA C C CAGCAG GAGAAGGGGATGAAAAACAGGAGCCGGAGCAGGG G G GAA $A \operatorname{GG} \operatorname{GA} A G G G G G A A C A A C G A A A G A G G G G C C G A G A A A G G A$ A A A A A A A A A A GAACCGAAGAAGGAAGGGGGGAA GA GGGAAAG G G GAGGCAGGAAACCGAGGGGAAAAAGGACCGGGGAAGGGGG G G GAGCAAGCCCGAAGGGGGGGGCCACGGAACCAAAAGGGAG GAACCGGGACCGGACCCGGGGAGGAAGGGCCACCAGGGAAAG GAAGGAACCAAAAGGGAAAAGGAGGAGAGAAAAGGAAGGGGA $G G A G A G A T T G G G G C G A A A A G G A A G G A A A A G G G G A A A A A A G G G$ GAAGAGGCAGAAGGGGGAAGGAGGGAGGGGGAAAAGGGAAAG GAAGGAAAAAACCAAAAGAGGGGGGCCGGAAGGAAAAAAGGG G G GA $\operatorname{l}$ GAA $A \operatorname{A} A A A A A C C A G G G G G G G A A A A G G A G G G A A A A G A A$ $A G G A A G G A A A A G G A G A A C A A A G G A G G G A A A G G A A A A G A G A A A$ A A GAGAGACGGAAAGAAGGGGAAGGGGGGGGAAAAAAAACAA GGAAAGGCAAGCCAGAGAAGGGGTTAGGGGGGGAAGGCCAGA A G GAA A GCCGGAAAACCCCGGAACCGGGGAAGAGGGGCAAGA AAAAGACAGGACAAGAGGGGAGGAGACAAGAGGGAGAAAGAG A A A A A CAGGAAGGAGCAAAGGGGAGGGTAGAAAGGCCAAAAC CATAGGGCAAAAAAAAGCCGGACAAAAGGCCAAAACCAAGGC C G G G G A G G A A C G GAA $A \operatorname{GGGA} G G A A A G A A A A C C A A G G A C A A G G G$ A G G G GACAGGGGGGGGGAGGGAACAAAACAAGGGGGAAAGAA AAAGAAGAACAGGAGAAAGAACAGAGAAGAGAAAAAAAAGGA $A C C G G A G G A G G G A G A A C G G A A A G A A A G A A G G A A G A G G G A A G A$ A A A A G G G G A G G G G A A A A C C G GAAA A G A CAGAA A A A GAC C G G A AAAGGAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAAAAAAG GCCGGCAAAACAAGGAAGAAAGAAAAGAGAAATAGGGAAAAC A GACCGAGAAAGAAAAATAAAAAAACCGGAAAGGGAGAAAAG AGACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAG AAAACGAACCACACAGGGGCCACAAAGAAGGAACCAG
AGGGAAAGGGCCAAAAAAAAGGAGAAGGGGAGGACAAGAAA A A GAA A G G G G GAA $A \operatorname{AGGGC} C A G A C G G A G A G A A A G G A A G A A A A G$ $G C C C C A A A A G G G G G G G G A A C C G G A G C C G G G G A G G G A A G G C A G$ GAAAAAGGAGAGCGGCAAGGGGGCCAAAAGGAAAGGAAACCC
 $A C C G G C C C C A A G G A A A A A A G G G G C C G G G A G G G G A G C A G A G A G$ GAAA $A \operatorname{A} G A A A G A A A A A A A A G G G G A A A A C C G G G G A A G G A A A A C$ CAACCAAGGCCAAAAAAGGGGGGGGAAGGGGAAGGAAGAAAC $C \subset C A A A A A A G G G G C C G G G G C C G G A A C C A A A A C C A A G G A A G G G$ GAAGGCCGGGGGGAAGGAAAAAAGGGAAGCGGAAAAGGGGGA AAAGGGAGGGAAAATAAAACCGAAGCAGGAGAGAGCAGAAAA GAACCAGGGAGAACAGGAACGGAAAGGGGCCATAACCAAAAC
 A G G G G G GCCGGAAACAAAGGGGAGAAGGGGGAAAGGGGAAAA A G G G GCCGGGGAAAAAAAGAGGGAAAACAAGCCAAAAAAAAA $A C C G C A C A G G G G A G G A G A G A A C C G G A G G A C C A A A A G G G G G G A$ A A G A A A A A A A A G GCA G GCCGGCAGGGGAAGGGGAAGGABAA G GAAGGGGGGGAGGGGGGAAAAGGAGGGGAGGGAGAAGAACAG AAGATAGGAAAGAAGAACAAAAAAAGGGGGAAAGAAGAGGGG G G G G GAACAAGAGAAAGAAAAACGACAGGGGAAAAGGGAAGA GAAGGGGGGAAAAAAGGAATTGGAAGGCGGGAAGAAACAGAG AAAGGAGCCGGGGGAAGGAACGACGGGGAAGCCGGCCAAAGA
 $A G G G G G A A G G G G G A A G G A A A A C C G G G G G G G G G G A G G G G A A G G$ GAGGGAAAAAAGAAAGGAAAAAAGGCCGGAAAAAGGGAGCCG $A G G G G A G A G G A G G A G A G G G A G G A A G G G A A G G C C G A A G G G G A A$ A A A G GAGGAAGGGAGGGAAAAGGGGAGGGGACAGGGACAGAG G G G GAGGTTGGGGCCAGGAAAGAGGAGGGCCGAAGGAGAAAA AAGAACCAAGGAGGGAACAGAAAAAAAGAAGAAAAGCAGABC A GCGGCCGGGGAAAGGGGGGGACAGGAGGGAGGCCCCAAAAC

CACAGAGAGGAAGGAGGAAGGGGAAGAAAAGAAGGCCGGCCC C G G A A C C G G G G A C A C C G A G G G T A A A C C A G G G C A G G G G G G C C A A G G G G A A G G A G G G G A C A GAGGGGAGGGAGAAA GACCAGGGGA GAAAGCCAAGGGAGGCCGGGAAGAAACGGAAAAACGAGAAAA ACCGGCCGACCAACCAGAAAAAAGGACAAAAGAAAGGGGCCG G G G G G G G G G A T A A A C G A A G A G A G G G G G G G G G G G A G A A A A A $\mathcal{A}$ T TAAGGGGAAAAAGAGGGAGGGAAAAGGAAAAAAGGGAAAAAC C GAAAAAGAAAGAGGACAGCAGAAAGAGAGGGAGGGGGAAAC A G G A G G A G G G G C C G G G G G G G G A G C A G G C C G G A C G G A A A G G G A AAAAAGGGGGGGGAAGGAAGAGGAAAAGGGGGGAAAAAATXA ACAGAAGGGAAATAGCCAGCAGAAGAAAACCGGGGGGAACAA GCACAAAAAGGGAGGAGAAGGAAGAAAGGAGAAGAAAAAAAG A A G G G A A $\mathcal{A} G G G G G C C A G A G A G A A A A A G G G G G G G A A A A A A C A A$ A GAGGGGAAAGGCAGAAAGGGCAGGAGAGGGAGAAGAGAGGT TAAGGGGAGAAGGAAGGCCAAAACCCCAAGGAAAAGGGGAAG GAACCGGAAGGGGCCAAGGAACCGGGGGGAAAAAGCCGGGGG G G GAA $A \operatorname{G} G \mathrm{G} A A C C G G G G G G C C A A G G G G A A G G A A G G A A G A A A C$ $C \subset C A A C C G G G G A A A A G G G G G G G G G G A A G G G G A A G G A A G G G G A$ AGGAAGGAAGGAACCAACCGGAAAAGGAAGGGGAAAAAAAAA ACCGGGGAAAAAAGGCCAAAAAAAAAAAAGGAAAAAAGAAAA $A C C A A A A G G A A C C C C G G G G G G A A A A A A G G G G G G G G G G C A A A A$ A A A G G G G A A G G G G G G G G A A G G A A G G G G G G A A G G C C G G C C A A A A G G A A A A A A G GAA $A \operatorname{A} A A G G A A A A A A C C G G A A G G G G C C A G A A G$ GAAGGAAGGGGAAGGGGCCAAGGAACCGGAACCGGAAGAAAG GAAAAAAAAAAAAGGGGAAAAAAAAAAAACCAAAACCGBCCA A A A G GAAGGAAGGAAGGCCGGAAAAAAAAGGGGCCGAAACAA AAAAAAAGGAAAAGGAGCCTAAAGAAGGGGAGAGGAACAGAA A G G G G A A G GAAAAAAAAGACCAAGAAAGGAACGGAGAAAAAA C C C G A A G G GAGGGAAACAGAAGGAAGGGGGACCCCAGAGGAA AAAGAGGGGGGGGGAGAAAAGGGAAAGGACGCCAAGAAGGGG GAAAAAAGGAAGGAAAAAATTGGGGAAAAAAAAAAGAAAAAG G G GAAGGAAAAGGCCGGAAAAGGGGAAAAAAAAAAGGAAAAG G G GAACCAAGGAAAAGGGGGGGGGGAACCGGAAAAAAGGGAA A A A G G A A A A A A A A G GAAAAAAGGCCAAGGGGGGGGAACAAAG G G G G G A A A A A A A A A A T TAA A G G GAATTAAAAAACCGGCAAA G GAAGGTACCGGGAGAGAAAAAAAAACGAGGGAA GGGAAACCT TAAGAAAGGAAGGGAAGAAGGAAAAGGAGCAGACC GAAAGAG GAAGGCCGGAAAAGGGGGGCCGGGAGGAAAAGGAAAGGAAGA A A A A A GAAA $A \operatorname{A} A A \operatorname{A} G A A G G A G G A A G C A G G G G A A G G G G G A G A A$
 $C G A A G A G A C G G G G A G A A G G G G A G G G A A A A A A G A A A G G G A G A G$ G G G GA $\operatorname{G} G A G G G C C A A A G A C G G A A G G G A C A G G A A A A G A A A A A A$ $A C C G G A A T T A A G G A A A A A A G G G A G G G G G G A G A A A A A G G G G G G$ G G G A A CAAAAA A $A$ A GACAGGGACAAGGCCAACAAAGGCCCCA A A A G G GA $\operatorname{A} G A G G G A G G A A G G A G G A A A G A C A G G G G G C G A G A A A$
 G G G G GAA $A$ AAAACCAGAAGGAAAAGGGGGGGGGGGGGGAAAAG GAGAGGAGAAGGACACCAAGGAAAAAAAAGGAGGCGGGGAAA A G GAAGGCCAAAAAAAAAAAAGGGGGGCCAAGACAGAAACAC
 GAAGGGGGACCGGGGAAGGAAAAAAGGAAAAGGCCCAAAAAG GAAGAAACACAAGGGAAGGGGAAGGGGGGGGAAAAGGGGGGA $A C C A A A A A A A A G A G A C C G A A G G G A A G A G A A A G G A C A C A A G B A$ G GAACGAGGGAGGCCGGAAGGGGGAAGGGAATAGGGAGGGGG A GACA $A \operatorname{A} A G A A A G A A G G A A A A A A A A A A G A A G G A G A G G G A T T C$ C C C A G G G CACACCACGGACGGGGGGAACCGGAAAAAAGGGGA A G G GAGGAAAACCACGGAAAAGGAAGAAGAAGGGGGGAAGAG G G G G G A G G A G G GAA $A \operatorname{GGGGGAAAAAGGAAAAAAGGGGCCGGGGG}$ $G G G G G C C G G G G G G A A A A G A A A G G G G G G A G A G G C A T C C G A A A G$

GAAGGCAGACCCCGGAGGGAAGGGGCCAACCAAGGAAAAAGG $A G G A A G G C C G G G G A A A A A A G G G G G A A G G G A A A A A G G G G A A A G$ GTTAACACCGAAAGGAAAAGGAAGAGAGGCCAAGAAGABACA G G G GAGAGGCCAAGAAGAAAGAACCGGCCAAAAGGACAACCG
 A A GAGAAGAAAGACCGGGGCAGGGGGGGAAAGGAAAGAGGAA $A G G A A G G G G A A G G G G G G G G A A G G G G G G G G G G G A G G G G G G G G G$ GAGAATTAAGGAACCGGAAGGCCGGGGACGGAAGGAAGAAGA G GAGAGGACGGGAAAGGACGGAAAGAAGAGAACAAAGCACCB AAAAGAGGGGGAAGGGGGAGGCCGGAAAGGAAGGGAGAAAAG GAA $A \operatorname{GAA} C \subset C A A A C C G G A A A G G G G G C C A A G G G G G G G G G G G G A$ $G G A G A A A G G G G A A G G A G A A G G G G G G A A A A G G G G A A G G G A G G G$ $A G G G G A A G G G G A A G G G G G G G A A A A G C G G A C A A A G G G A G A G A G$
 GAGGAGAGGGGCCAAAACAGGGGAAAGAACCAAAGAAAGGGA GAAGGAAGGAGGGGGAACAAAAAAGGAGAGGAAAAAGAAGGC A G G A A A A C C G A GAA GAATTAAAGCCGACCAAGGAAAACAGBA A G G A A C C G GAAA $A \operatorname{AGGGGAAGAAAGAGGCCGAGGGGAACAGGG}$ A G G A G A A A G G A A GAGAGAAGAGAAAAGGGAAGGGGGAGAAAC A G G G G G G A G G A A A A A G G C C G A G G A G G G A A A A A G A A G A A A G G A AGGAGAAGGAAAGGAGAGGAAGGAAAACAAGGGCCAAGGGGG GAGGAGAAGGAGAGGAGACAGCCAAAGGAGGCCGAGCAAAGA G G G G A G G A G G A G G G G A A A A A A C A A G G GAAAAAA $A$ A A G G G G A G G G G G G G G A G A C G G G G A A A A G G A A G G A G C A C C A G A G A A G G G G G G G G G G GAGGCAGACCGGAAAACCGGAGGCGGGGCAGGAGAGGGA AAAGGGGGAGAGGACACAAAAAAAAAAAACCGAAGGGAAACA GAACGAAAAGGGGGGAAAAAAAAAACCGGGGAAAAAAGGGGG A G G A A A A A A G G A A A A G G G G G G G G C C GACAGAA G GAA A C C G A G A GACAGGGGGAAGAGCCGGAGGAAGGGGGGGAGGGAA
A G G G A A G G G G G G G G C C G G G G A A G G G G G G G G A GAA A GAAAA A G G G A G G G A G G A A G A A G A G G T T T A G A G G G G A G G G G A A A G A A G G GAGGGGAGGCCGACCCCAAGAAGGGAGGAACAGAGGAAAAAA A A G G GCCAGGGAAAGGAAAGAAAAAAGGGGACCGGCACAAAA A G A A G G A G G G A G G G A C C G G A C G G A A G G A A GAGAGA GAA G CA A G GAGGAAAAGGAAGGGGAACCGAAAGGCCGGAAGGAAAGGGG GAACCGAGAAACAAGAGAGAGGAGATAAGGAGGGGGGGATAG G G GAAAAGGCCAAAAGGAAGGGGAAAAGGAAAAACAGCAGAA GAGGAAACCAAAAAAGAGAGAGGGAGGGGGGAGAAAGGAGAG A GAGGCAAAAAAAGGAAAACCCCGGGGGGGAGAGACCAAAAA CAAAA $A \operatorname{A} G \mathrm{G}$ GAA $A A A G A A C A G G C A G G G A A G A G A G A G A G G A G G C$

 G G GAAGGAAAAGGAAAAGGGAGGAAGGGAAGAAGGAAAACAA A A C G G A A C C A A G G G G G G G G G GCCAAAAAAAAAAA A G G G C C G G G G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G A G G G G G A A A A A A A A A A A G G G G G G G A A G A GA G GA G G A A $G$ GCCGGACAAAGGAAAAAGGAAGGAGCATAGGGGAAGAAAAAA AAGAGAGGAAAGACCAGAAAGAAAAAAGGGGAAAAAAAAAAA GAAAAAGGAAAGGAAAAGGAAGGAAAACCGGGGAACACAGAAA A A GAA $A \subset G G A A A A G A A A A A A G A G A G G G A A A A A A G G C C A G G A A$ A G G G G A A A GAG GAGGAAGGCCCCAATTGGAAGGAAAGAGGAA AGAAACAGGAACCGGGAGAAGAAAAGGCCAAGGAAAAAACCA C A A A A A A $\mathcal{A} G G G G G G G A A G G G G A A G G G A G A G G A A A A G A A G G G A$ A A GAGAACCGGGGGGGGGGGGGAAAAGAAAAAAGGAGCAAAA A G G A A A G G GAA $A \operatorname{GAAAAAGGAGAAAAGGGGACAGAAGGAGAAA}$ AAAGGAAAGCAAAAGGAGGCCAAGGGGCCAGGGGACCGGCCA

 $A G G A C A A G A G G A A G G A A A A G A A A G G A A G G A A G A G G G G A A A A A$

A A A A A G G A A A A ACATCCGGGGGGAAGAGAGAAAAAAAGAGAA A A A A A G GAGCAACCAAAAGGAAAGGAAGGGGAAAGGAGAGAA $G \subset A G A A G A G A G A A A A C C A G G A G G C C C A A A G G G G G A A G A A G A A$ GCAAAAAAAGACCAGGGAAAAGAAAAAGGAGAAGACCGGAGG $A C C A A A A A A G G A G A A G G G G C C G G A G G A G A A G A A C C G G G G G A A$ A G G G G G G G G G G A A A A A A A A A A G G C CAA A G G G G G G G G G A A A A A A G G G G A A A A A A G G G GAAAA A GAAAAAAGGGGAAGGGAAAAAC CAACCGGGGGGAAAAAGGGGAGGCAAAAAAGAGGGAGAAGGA A A A A A A GCGAGGAGGAGAGAAAAGGCCAAAGGAAGGGGAGGG G GATACCGAAAGAGGAAGGGAACCCGACCAAGGGGAAGAGGC A G G G G A A A GAGAGAGGAAGAAAAGGGGAAAACCGGCCAAGAA A G G G GAACCGGAAGGAGAAGAAGAGCCAAAACCGGGGGGCCG GAAGGAAGGGGGAAAAAGGCCGGAGAAAAAGAGCCAACCCCA A GAAGAGCAAACCGAACAAGGAGCCGACCGGGGAAGGAGAGG G GAAGGGCCCCAAGGCAGAAGAAGGGAAGGGAGAGAAAGAGA GAGAAAGAAAAAACCAAGAAAGGGGGGCCGGGGAAGACAAAA G G G G G A A G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A A A A A G G A A G G C X A A G G A A G G G G G G A$ AAAGGGGAACCAAGGAAAAGGGGAAAAAAGGAAAAAAAAGAA A A A A A A A A A A A G G A A G GAAAAACCCAAAGGGGGGGGGGGGGG GAAAAGGAAAAGGCCGGAAAAGGGGGGAAGGCCGGGGGAAAG G G GAAAAAACCAAAAAAGGGGAAGGGGAAGGAATTAAAAAAA AAAGGAAAAAAGGAAAAAAAAGGGGGGCCAAAACCGGAAGAA AAAGGGGAAGGAACCGGAACCAAAAGGGGGGAATTAAAACAA A A A C CAA A A G G A A A A A A G GAACCCCAAGGAAGGAAAATXGGG G G GAA $A \operatorname{GAAAAAAAAAGGAACCAAAAGGGGGGAAAAAAAAAAA}$ A G GAAAAGGGGAAGGGGAAGGCCGGGGAACCAAGGGGAACAC C G GCCAAGGAAGGAAGGAAGGGGAAAAGGAAAAAAGGCCCCA A A A G G A A G G A A G G G G G G C C G G A A G G G G G G G G C C G G G G G G G G G GAAAAGGAAAAAACCAAAACCGGGGAACCGGAAAACAAAAAA A G GAAAGGAAAAAGGGGAACCGGGGGGGACCGACAAATAAAA GAAGGAGAAGAGGGGAAGGAACCAAAAGGAAAACCAGAAGBC $C G A G G G G A G T T G G G G A A G G G A A C A G A G A G A G A A G G A A A G A G A$ A G G G GCC C A G A A GCAAGGGAGGAGGGAAAGGGAAACCAAAAA A G G G G A A G GAGAGCAGGAAAAGAAAAAGAAAGGAACA GAA GAC CAAGGCCGGGGGACCCAGGGAGAAAAGGGAGAAAAAAAAGGG GAAAAAAGGAGCCGAAAAGAACAAGAGGAGAAGAGGGGAGAG GAGGAAAGAGGAACAAAAAAACCGAAGACCAGAGGGGAGACG ACAAAAAAAAGGACCCCAAAAAAGAGGGGGGAAAGGACAGGG G GAAACCGGGAAGGAAGGGAGAAGAGGAAAGAGGGGGAAAAG GAGAGAAAAGGGGGGTTAAAACCGGAAGGGGGGAAAAGAGAG AAAAGGGGAAGACAAACGGGAGGGGAGACGAAAGGAGAATXG A G G G G A G A G A A A A GAAAAA A $A$ A G GAGCACAA GACAA G G G G G G A A G G GAGGGGACGAAACCGGGAAGGGGATAGGGGGAGGGGGAG A A A A G G G A A GACATTAAGAGGGGGAAGGGAAGGAAAGAGAAG GAAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGGG GAAGAGGAAAGGACAGGGGCCGGGGCCGGAAAAGGAACAGAA A A A A A G GAGCAGAGGAGAGGACAAAAAGGGGGGAAGAAGAAA AGGCCAAAAAAGGGGAAAAATGGGGAAGGAGAAGGAAAAGAG G GAAA A G G GAA $A \operatorname{AGGGGAACGGAAGAGGGGCCGGAGGGGAGAA}$ CACATAAAAAGAGAAAATTGAGGAGCCGGGGAAGGAAGAAGG G G GCCGGGGAAAGCCAACCGGAAAAAAAACCGGAGGGACABA G GAGAGAACAAGGGGAAGGCCGGCCAGACAGAGBAAGGAGAG G G GCCGGAAGGGGAAAAAAGGAACAAAAGAGAAAAAGAAAAG G G GAGGGAAGGGAACAGAAAAGGGGGGCCAAAAGGGAGAAAG G TAGGGAAAGGAAAGGAGGGGAAGAGGACCCAGAAGGAAAAC CAACAACAGAAAAGGGGGAGAGGGGACAAGGAAAACAGAAAG AAACCGAGAAAGAAAGAACACAGAGACGGCAAAAAAAGGGGA $A C C C A G G G G G G A G G G G G A A G G G G A A G A A A A A A A G B A A A C G G G$ G G GAA A GAGCGGAGAGGGGAAAGAAAAAAAGGAACGAGAGAG

G G GAGAGAGAAAGAAGAAAGGGGGAAAGAGAACCAAGACAAA GAGAGCAGGGAAGCCAGGGAAAAAGAACCAAGAAAAAGACCA G G GACAAAGGAGAAAAAACAGGAAAAAAAAGAGAAGGCAAAG A A A A ACCAGAAAGGGGGAGGGGGGAAAAAAGAAGGAGAACAA AAAAGGAAAGAAGGGGGAAGAAAGAGGAAAGGGGGGGGAAAA A G G GAAAACCCAAACGGAAGGAAGGCCAAGATAAAGGAAGAG AAAACGGAGGAAAAAGGAAGACACCAACCAAAAGBAAGGGGG GAAGGGGAGGAAACCCCGGCCAGAGAAGGGAAGGGAGCAAAA G G GAAACCACAAGGGGAAACCAAAAGGGACCACAGAAGAAAA A GGGACCGGGAGAAGAGGGACGGAAGGAAAAAGAGGGGGGAG A A GAGGGGGAGGGGGCAGACAAAAGGAGGGAGAAGAGAGAGA A A A A A A ACCCCGGACGGCCGGAGGGGGGAGGGGAACCGGGAA GAAGGGGAAGGAACCGGAAAGAACCCCGAGGAAAGCCCAAAC A GAAA A G CA $A \operatorname{A} A A A A A G G G G G G G G A G A G A A G G G G A A A A C C G G G$ A G GAA A GAGAAGGGAAGAAAAAAGGAGAAGGGAAGAGAAAAG GAGAAGGAGAGGAGAGAGGGGGGGAAAGAGGGAGGAAAAGAA A A A G G A A A A G A A A G GACA $\mathcal{A} G G A G G A A G G A G A G A A G G G G G G G A$ GAGGGAGAGAGAGAAAGGGAGAGGGAAGGAAGAAAAAGGGGA A G G G G G G G G G GAACAAAAACCA AAAGGAAGGACGGGAAACCA G GGCCAGAGGAAGGGCGAGGGGGAAAGAACCGGGAGAAGAGG GCCAGAAGAAAGAGGGGAGGAGGAAGGCAAAAAAAGGGAAAA GAGGGAAAAAACCACCCAGCCCAACGAGGAACAAGGAAGTTG G G G G G G G A G A A A G G G A A A A A A A A G G GA G G T T G A G G GA G G G G G GAGAGAGAAGGCAGGACAAGGGGGACAGGAGGGGAGAACAAA GAGGGGAGGCCGGGGGAGGAAGGAAAGGGCCAAGAAGAAGGA A A A A A A ACCACACCACAAACAACGGGGAGAAAAAAGAGGGGA AAAAGGGCCAGAGAACCAGGGAGAAGGAGAGGGGGGGCAGAG ACCGAGAAGAACCCCGGAAAGAAAGGAGCAACCCAGAAAAAG GAAGGGGAAGGGAAGCCGGAACAGGGGAAAAAACAAG
$G G C C G G A C G G A A G G G G G G A A A G G G G C A A C C A G G G G A A A A A G$ $G G A A A A G C C G G G G A A A A A G G G A G G A A A G A A G G G A A A A C A G G G$ G G GCCGGAAAAAAAAAGAGGGAGGGGAGGGGAAGGCAAAAAG A A GAGGGGAGAGGCCGGAAAGGAAAGGGAAGAAAAAGCAGAG A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAGGGAAGAACGGAGCAGGGGCAGAC CAAAAAACCGGGGTTGGAAAAAAAAGAAGGAGGGGACGAACA
 $A G G G A G A A A G G A G G G G G G G G G G G G G G G G G G G A A G G G G G E A G G$ GAAGGGGAAAGAGGGAGGGAAGGAAGGAAAAGGGAAGGAGAA A A A G G G G G A A A G G A A GAAGAAAAAAAAGGCCGGAAGGGAAAG $G C C A G A G G A A A A A A A A A A A A A G G G G A A A A C C C C G G G G G G G G G$ G G G A A G G A A A A C C G G G G G G G G A A C C C C G G G GA GAGGGGACA A GA $A$ A A $A G G G G G G G A A G G C C A A A A G G G G C C A A G G A A A A A A G G A$ $A G G A A G G A G G A A G A A G G A A G G G A G A G G G A A C G G G G A A G G A G A$ A G GCCAAAAAGAGGGAAGGGGAAAAAACCAGGAAAGAGAAGAA AAACCAGGGGGGAGAAAAGCAAAAACCAAGGAGAGCAAGGGA G G G A A A A A A A A A A G GAACCAAAAGGCAAGACAGAACCAAGGC CAAAAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACCB A GAA A A G G GAAGGGGCAGGGGAAGGACAAGGGACAGGACGGA GACGAGGGAGGAGGACAAAGAGCGGGAGAGAAGAAAGAGGGG GCCGGAAAGAAAAGAAGGAAAAGGAGGAGAAGGGGGAAAAAA A A A G G A A G G G GCCAAAAGGGGAGAGGGAGGGGGAAGGABAAG A G G G G A G A GAAAA A $A \operatorname{AGGAGGAAGGAGAGAAAAAAAAGGAGAA}$ A A A G G A A A G G G A G CAC G G G A GAATTAGGAAGAGAAGGCAAC G G G GAAGATTAACAGAATAGAAAAGAGACCAAAAAAGGAAAAA GAAGGAGCCGGCCGGAGGGGAGGAGAACCGAAAGACCAAACA $G C A G G A A G G G A A A G G A G A A A A A A A A G G G G G G A A A A A C A A G G A$ ACCAAAAAAAAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAC A G A A G A A A A A A G G G GAAGGAAAGAGCGCCAAGGTTAAAAAA G GGGAAAGAGAAGGAAGGAACCAGAAAGCCGGGAAAAAGAAAG

G G G A A G G A C A G A A G GAGGGGGAAAAGGCGCCGGAAGAAAGAA GAACACCAAGGAGAGAGAGAAGAGGGGAAATGGCCAAAAGGA AAAAAGGGACCAAGGAAAAAGGGACAAAAGGGGAAAGAAAAA G G G G G G G G GAGAAAAGGAAACAAGAAGAGAAGGATCAAAAGG
 A G GCAGGAAGGCCAAGGGGAAGGAAGGGGGGAAGACCATGAA AAGCCGACAAGGAACGGGAGGAAGGAAAGGAACAAAAGAAAA $G G G C C A A G G G G A A A A A A G G C C A A A A G A G G A A G G G A A A A A G G G$ G G GCCCCAAAAAAAAAGGGGGCAAGGAAGCCGGAAGGCCGGA GAAAGAGCAAGAAGGAAGGAAGGAAGGGAGAGGAGGGAGAAG GAAAAGAAGGGGGGAAAGGCCAAAGAAGGAAGGGACCAACAG GCAGGGAAAACCAGAGGGGGGGGAGTAAAGAGGAAAGAAAAA A G G G G A A C C A G A G A G G G G G G G A G G G G G G A A G G A G G A G A C G A G G G G G C C G GA GAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A C A G G G G A G A G G A G G G A A G A A A A$ A G GAA A GAAGGACGGAGAAACAAACGGGGAAAAGGAAAAGCC AACCACCAGAGGGGAGACAGACAGGGGAACCAAAAGAGAAGG A G G G G A A G GAA A GACAGAGCCAGGAAAGGGGCCAAGGCCGBA A A GAGGGAAGGGGGACCAACAAGGGAGGAAGCCAAAGAGGAG $G G G A G A G G A A G A A C C G G A A A A G G C C A G G G A A A A G G A A A G G G G$ G G G A G A G G GAAAAGGAAGGAAAGTAGAGAAAGGGGGAAAAAA A G GAGAAAAGGCCGGAAAACAGAAGTTAGAAGAAGGGGAAGAA TCAACAAGGGGAAGGGGCAGGAAAAGGCCGGCCAACCCCGAG G G G A G A A G G G G G A G G G G C C G G G G G G A A A A G G G A G G A A A A G G A A GAG $A \operatorname{GA} A G G G G G G C A G A A A A G A G G G G G C C A G A C G B A G G G G G G$ GAAGGAGAGGGGATTACAAGGGGGGGGGGAAGGGGGGGAAAA
 C G GAAAGCAAACCAAAGAAGGGAGAGAAACGAGACAAAGAAG GACAAACAAGGAACAAGAAGGCCGGGGAGGGCCAAGGGGGGG A A A GAGAGGCCGGGGAGGAAACCGAACGGGGCXAAGGGGGGA $A G G G G A A A G G A G A G A G G G G G G G G G G A A A A G A G G G A A G A A G G A$ G G A C A A A G G G A A C A G A G G G A A G G A G A GAGCAAGCAA GA G G A A GAC GAAAGGGAAGAGGGAAGGCCAGAAGGGGGAAGGGGAAAA AAA $A \operatorname{GAA} A G G G A A G A A A C A A G G A A C G G A A A G G A G G A G G A A G G$ $A C C G G A A G G A A G G A A A A T T G G G G G A A G A G A G G A G G A A G G G G G$
 C C C A A A A $\mathcal{A} G G G G A G G G G G G A G G G G A G A G G A A A A G G G A A A A G A$ GAGGAAGGAGGAACCTTCCGGGGAAGGCCGGCCAAGAGAAAA GAGAGAAGGGGAAAGGGGCGGGGGGTTGGAAAAGGAACAAAA A G G G G G G C A A A A G A A G G G A A A A G G GAGAGAAGGAGAAAAAA G GAACCAAACAGGGAAACAGAGGGGGAGCCAAAAGAAGAGGGG G G G G GCCAAGGGGAAGGAAGGCCAAAAGGAAGGAAAAAAAAA A A A A A A A C C G G G G G G A C A G G A G A C A A A G G A A T T A A A A C A G G A $A G A G G A A G G A G G G G G A G G G A G G A A A A A C C G G A G C A G A A A G G G$ GAAGGGGGGAAGGGAGAGGGCAGTTAAAGAGAAGACCABAAA A G G G G G G A A A G A A G A G G A A A G A A A G G A A A A A C C A A A A G G G G C A G G G G A C G GCCAA $\mathcal{C}$ C GAAAAGGCCACAAGGGGAAAAGGAAA G G G G GCCAAGGCCGGGGAAAGGGAAAAGGAAAAAAGGAAAACAG GAGGGGGGAGAAGGAGGCAGACCGGGGGGGGAGGGACAAAAC
 C G A A G T A A A G G G G A G G G C C G G A A G GAGGAAGAAG GAAC A A A G AAAGAGGCCGGAAGAAAACGAGGAACCCCAAAGACGGAGAAG GAAAA $A \operatorname{A} G \mathrm{G} G A A A A A A \operatorname{A} A \mathrm{~A} G \mathrm{~A} A A A A G G G G A A A A A A G G A A G G G G G$ A A G G G A G A A G G G A A A A G G G G A G A A G G G A A CA A A G A A A G G C C A ACCAAAGGAAAAAAAGGGGGGAAGAAAGAAAGGCCACAGAAA AAAGGGGCCAAGGAAGGGGACAGAAGGCAAAAGAAGGAAAAG G G G A A A A G GCC G A A A A GAGGCTTGGAAAAAAAA GA G G G G G G G G A A $\mathcal{A} G A G A G G G G G G T T A A G G G G G G G G A A A C G A G G A G G A A A A A G$ GAAA A $A \operatorname{A} A G G G G G G A A A A A A G G G G T T A A A A A A G G A A G G G G G G G$ GAATTCCAACCAAAGGGGGGGAGAAGGAAGGGAAACAAAAAA

GAACAAGGGAAAACAGAAGAGAAACGAGAAAAAGAAAGAAAA G GAAACCAAAAAAAAAAAAGGAAGAGACCGAGGAGAAGGAAA ACCGGCCAACCGAAGGGCAAAAAAAGAGGGAGGGGGAAACAA C GAAACAAGAGAAAAGGAGCCGGCCAGGGGGAAGAAAGAAAA G G G G GAAAGAAGGCCAAGGAAAAAAAAAAGGAAGGAACAAA G GAAACGAGAGGAAGGGGAAAAAAGAAAAAGGGGGGAAAAAAA A A A G G GAGGAAAGAAGGAAAAAAAAGAGGCAAGCACCCCGGG AGGAAAGGGAAAGAGAGAGCAGAGGAAAAAGCAGGGGGGGGA A A A A A A A G A A G G G A A A A G A A A A A G GAGGGAGAGGA G G G GAA $\mathcal{A}$ GAGGGCCAGAGAAACAGGAAAGGCCACAACCGAAAAGGGGGG GAACGAACCGGGGGGGGAAAACCAAAAAAAACCGGAAGGGGC C G G G G A G A A G G G G A G C A G G A T A G G G G G A G G A A G G GA G G C A G A A A A G G G G A C G G A A G G A G A A G G G G G A G G G G C C G G A G A A G A G G G G G G G G A A A A G G G C C C G G G G A GAA $A \operatorname{AGGGGGGGGA} G G C A G G G G G$ A GAAAGAAGAGGGGGGGGGGCAAAACCAGGGCAGGGAGGGGC CAACCGGAAGGGCGGATAGAAAAGGGGCAGGGGGGAACCCCG GAA A A A A G GAA $A \operatorname{A} C \subset A G A A G A G G G G G G G G G G G G C G G G C C G B A$ A A G GAA A AACCGGCCGAAGAAAAGGCCAAAAAAAAGGGGCCA $A C A C C G G A A G G A A A A A A A A C C A A A G A A A G A A G G G G G A A A A A A$ A A A G A G A G A G G A A G A A A A A G G G G A A C CA GAAGGAGGGCAC CA AAAAAGGAGGGAAAAAGAAGCAAGGGGAGAGAAAAAAAGAGG GAAA A A A GAGGAAGGGGAAGGGGGGGAAAAAAAGGAAGAAAA
 G GCAAAAAGAGAGAGAAAAGAGGCCGGGAAGGGAGGBAAAAC ACCAAGAGGCCGGCCGAAGAAAACCAAAAAGCACCGGGAAGA A A A A G GATTAGAACCCCCCAAGGGAGGAAAAGGAGAGAAAAA $A C C A A A A G G G G A A A A A A G G G G G G A A C C G G A A C C A A A A A A A A G$ G G G A A A A G G G G GA G G G A A A A A A A C C GGAGAACCGACAAAA GA CAGTAAAAGAAAGGGGGAGGAGGAAGAGGAGAAAAGG
CAAAGAAGAAAAAAGGGAGGAGAAGGGGAAGGAGAAAAAGA GAGGAGAGGCCCCAAAAAAAAAGAGGGAGGAGGGGATAAAAA $A C C G G G G G G A A A C A A G G G A C C G G G G A G A A C G G G A G G A A A C A A$ A GAAAGGACGAAAGGGGGAGGAAAGGACAGAACAGACAAGGA GAACCGGGGAAAGGAAAGAAGGAACGGAAGGGAGGAAGAAAA A A A A G A A A GAA $A \operatorname{GGGAAAGGAAAGGGGGAAAAAAAAAGGGGGG}$ A A A G G G G A G A A C C G G A A A G TAAA A GAA A GA GA GAGCCGAAA G G G G G G G G G G G G A A C C A A A A A A G G G G CAAAA A TA A A A CACA A A AGGAAAAGGAGGGAACCAAAGAAGAAAAAAAGGAAGGCAAGA CAAAGGGAGGAGAAGAACCAAAAAAAAGGAAGGAGCAAAAAA A G GCC C G A A G G A A G A G G G G G G G G G G A A G G A A C C G A G GAA A A C $G G G G A A A A G G G A A G G C A A A C C G G A A G G C C G A C C A A G G G A G A G$ GAGCC GAGGAAAAGGGAAAGGGGGAAGCCGATAAAAGGAAAA G GGACAAAGAAAAGAGGACAACCGGAGAGGAAAGAAAAGAGG GAGGGGGAAAAAAAGGGAGGAGGGGAAAAAGGGGAGAAAGAA G GACACCAATTAACCCGATACAGGGAGACGAGAAAGGAAGBA $G C A A A C C A A A A G G A A A A G G A G A G A A G C A G C C A G A T C C G A A A A$ A A GCCCAAAAACCGGGGGGAAGGGGCCGAAAGGGGCCGAAAA G G G G GAA $A \operatorname{GA} A G G A A G G G G A G C C G G G A G G A A G G C C A A A A A A G$ G GGCCCCAAGGAAAGAGGAGAGCAAAGAAAAGGAGGGAAGAA GA $A \operatorname{G} A A A A A A G G G G G G G A A G G G A G G G G A A G G G A A G A A A G G G G G$ GACGGAGGGAGAGGGAAAAAGAAAAAGAAGGAAGGGGAAAAA GA $\operatorname{G} A A A G G G G G A G A A G G C C G G G G G A C C C C A G G G G G A A G A G A C$ A G G G G A A A G G A G GAGGACCAACCGGAGAAAAAAAAGACAAAG GAAGGCAAGGGCAGGGGAATTAGAGGAGGAAACGAAAGGGGA A GAGGGACCGAAAAAGGCCGGAGGGAAGAGAGAAACAGGGGA A A ACCAAAAAAAAAGCAGGGAAAAAAAGGGGGAAGTAGGGGAA GAAGGAGAAGGAAGAGAAGAGGGGAGGGGGAGAAAAGABAAG $A C C A A G G A A G A G G G G G A A A G G A A G A A A A A A A G A C C A A A A A A G$ $G G G A G G A A C G A C A A G A G A A G G G G G G A A G G G A G A T T G G A C A G G$

GCCGAGGAAAAAAGGAAATGGGGCCGGGGAACAGGGAAAGGG G GAA $\operatorname{G} G A C C A A A A G G A A A A C C C C A A A A G A G G A A G G G G G G G A G$ A A G G A A A G A A A GAGGCAGGCCAAGGCCAAAAGGCAAAAAAGG G G GAA A GAGCCGGGGGGGGAAAAAAAAAAAACCGGAAAGGAA A G G G G G G G GAA A GAAAAGGGGGGAAAAAAAAAAGGGAAAAAA
 A A A A A A A A A G G G G A A A A G G G G G G A A A A G GAAGGCCAA G GAAC CAAGGAAAAGGAAGGCCAAGGAAGGCCGGAAAAGGGAAAGGC C G G G G G G G G A A A A A A G G A A G G A A C C A A A A G G C C G G G G G G G G A AGGGGAAAAAAGGAAGGAAGGGGAAGGGGAAGGAAAAAAGGA A A A G G G G G G G G A A G G G G C C A A A A A A G GAA $A \operatorname{A} A A A A A G G G G G G G$ GAA A G G G A A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G G A A C
 GAAGGAAAAGGAAAAGGAAAAAAAAGGAAGGGGCCGGGGCCG G G GAAAACCGGGGAAAAGGAAGGGGAAAAGGGGAAGGCCGGG
 AAAGAACCCGGAAGGAGACCCGGAAACCAACAAGGGGGGGGA
 G G G A G G GAGGGAGGAAACCAAGGGACGCCAAGGGGAGGAAAG G G G G G G G A A G G A A C C A A G G A A A G G G G G C C A GAA $A$ G A G G G G A G AGGGGAGGAAGGGGGGGAAAAAGGAAACAAAAGGAAAAAGGG GAA A A GAA $A \operatorname{G} G A \operatorname{A} G A G A C C A G G G T A G A A A G G A A G G A A G G G G A$ A G A A A G G A C G A G G G G A A G G A G G G G G G G A G G A G A C C A G A A A G G G G G G A G G C C A C G G G G A A A G A A A A A A G GAA $A \operatorname{AGGGAAAAGAAGG}$ G G G A A G G A A G G A A A A A A G G C C C C A A C CAA G G G G G G G G G G A A G G G G A A A A G G G GCC G G G GAAGGCCCCGGAAAAAACC GAAAG GA

 G G A A G G G G A A C G A G GCCGGGGGGAAAAAAGGAAGGAAAAGGG G G GAAGGGGAAGGGGCAAAGGGGAAGGAAAAAAGGGAAAGGA A A A G G G G G GAA $A \operatorname{G} \operatorname{GA} A G G C C A A A A G G C C G G A A G G G G G A A A A A G$ G G G G G A A A A G G G G G G G G G GAA A GAA A GAAAAAAAGGGAAAAA A G GAACCAAGGGGAACCAAAGAGCAAACCAAGGGGGGGGGGC C C C A A C C A A A GCC G GCCGGATAGGGAGGGGGGAGAGAAGA GA
 A A G G G G A G A A A G G A A G G G G G G A C A C C C G A G GAA $A$ G A A G G A A G GAA A G A A G G G G A A A A A A A A A A G G G G G GAA $\operatorname{A}$ G G G C C A A G G G G A A G G G G G GC CAA $A \operatorname{CGGGGGGGGGAAAAGGAAAAAAAAAATXAAC}$ C G G G G G G A A G G C C G G A A A A G G T T G G A A G G A A G G A A G G G G A A $G$ GAACCGGGGGGGGGGAAAACCAAGGGGGGAACCGGCAAAGAA A G G A A A A G G G G A A C CAAAAGGCCAAAAGGGGCCAACCGGGGA A G G A A C C A A A A G G G G G G A A A A C C A A A A A A C CAA G G G G A A A A G G G G G GAAGGAAGGGGAAAAGGAAGGGGGGGGGGGGGGGAAAC
 A G G A A A A A A C CAAAAAA $A \operatorname{A} A A A A A A A A A A A G G A A G G A A G G G G G$ G G G GAGGAAGAAAAGGGAAACAAAAAAAAAACCGGGAGAGAG GAGACAACAGGGGCCAAGAGACAGGAAGGAAGGAAAGGAAAA A G G G G A GAA $A \operatorname{GGG} \operatorname{G} A A A A A G G A A G A A A G A A G A G A G G C C G G G G G$ G G GAA A A G G GAACAGCCGGGAGGAGAGAAAAGGGGAAAAAAA A A G A G A A G A A A G G A A A A A A G G A A A G TAAA A G G GAAA G C C C C G A G GAACAGGAGCAAGACAGAAGAGAAAAAGGCAGGAGAAGAA G G G G A A A G GCCAGAGAAGGGGAAGGCCGGGAAGAGAGAAGAG GA $\operatorname{G} G A A A A A G C G G G A A A A A A G G G G A G G A A A A A G A G G G G T A C C B$ G G GAGAGGAGGGGGGGAAAGGAAAGGGGGGGCCGGCCCGAAG GAAGAA GAAGGAAAAGAAAGGAAGAAACCAGACCAGGAGGGG G A T A G A G G A A A A A G G A A G G G G G G C C A A G G A A G G A A A A C C A A G GCCGGGGAGCAGAAAGAAGAAACCAGAAGAAAAGGGGCCGGC CAATAAGAAAGAACAAGAAAACGGAAAGGAGAGAAAACCGGG G G G GCCCGGCCGGAAAACCAACCGAAGAAAGAAAGGCCAAAA

A G GAA A G A A G GCCTTAAAGGGAGAGAAAAGGGAGAGGAAAGG G GAGGAAAGAAAAAGGGAGCCAAGGGGCAAGGACCGGCAAGB GAAAAGGGGAAAAGGCCCCGGAAGGCCAAAACCAAGGGGGGG G G G G GA A A A A A C C G GCCCAAGGGGGGGAAAAGAAAGAGAAAA G G G G GCACCAA GAGAAGACATAGCACCCCAAAAGGTTAAATG A G A A A A A G A G A A A G A G G G G A A G G A A A A G G G G CA GAG GAAA A A AAAAAGGAGAAAACCGGCCAAAAAAGGCCAAGGGGGGAAAAG GAAGAGGGGGGGAAGTTGAGGAGACAGAAGGCCCCCCGGCCG GAGAAGAAAAGCGCAGAAGGATTCCACAAGGGGCCBCAAGGG GAAACAGCCGGGGGAGGGAACAGAAAGGACCGGGAAAAGAAA
 A A G A A A G A A G G A A G G G G G G G A G G A A G G A G A A G G A A A GA C G G A $A C A G G A A G A G C G G A A G A G G C C G G G G A T A A A C G G G G G C G A C A G$ A A C A A C C A A A A GAAA $A \operatorname{AGGGAAAAAGAGGGAAGAAAAAGGGGA}$ AT TAAAAGGGGAAGGAAGGCGAGAAGGGAGGGAAAAAGAGGG GAAAAGGGGGAAGAGGGACGGGGGGGCAGAAGGGGAAAAAGA
 A G G T T G G A A A G A A A C C G G GC C A A G A A G G G G G G G A G G G G A G G A AAAGGGGGGGGAAAAAGGGGGGGGAAAAAGGGGAGGAGAGAA A G G G G A A $\mathcal{A} G G G A A A G A G G G A A A A G A G A A A A G A A A A G G C C G G G$ GAGGAGGCAGAGGAAGGAACCGAAAAGAAAAAACCGGAAGAA A G G A A T T G G T T A A A A A A GAA G GAAAAGAAGGGGGAA G CATTA A A A A A A A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A$ A A A A A C C A A G G G G A A A A C CAA $A \operatorname{AGGGGGGGAAAAAAAGGGAGA}$ CAAACAAAACAAGACCAAGAACCGGGGAAAAGGAACCAGCAA ACAAAGGCCGAGGAAAAGGGGGGGAAGAGAGAGGAAAAAAAC CAAGGAGGGAAACGAAGAGAGAACCGGAACAGGAAAAGCGGA A A A G GCCAGAAGGAGGGAAAAGGAAGGGGAAGGAAAAGAAAA AAAGGGGACAAGGGAAGGGCCACACAAAAAAAAAAGG
G GCAGAGGGGCCAAAGAGACGGAAGGCAACGAACCCAAGCA GAAGGAAAAGAAGAAAACCAGGGGGCAAACAGGAGAAAAGGG GAGAAATGAAAAAGAGGAAAAGGGAGGGGGGAAAAGAACGAA A A GAGAGGGGGGGAGGGGGAGAGAAAAAAAAGGA GAA GA GA A A
 A GACCCCAAAAAAAACCGAAAGGGAAGGGAAGGCAGGAACAB G G G A A A A A A G G G A A G G G G A G G A G A A G G G A C C G G A G A T G G G G A AAAGGGGGAGAGGAGGCGAAGGCGGGGAAAAGAAAGAAAGGA AAAGGAAGGCCAAAGAGAGGAGAGGCCAAAAAAGGGAACCCA G G G G G A A A A C C G G C G G GAGAAAAAAAAAAACGGGGGAA GACA GA GAAAAAGAAGGAAAAAAAGGAGGAAGGAAAGAGGGAAGAA A A A A A A A A A C C C CAG $A \operatorname{GGGGGGAGGAGGGAGGAAAAAAGAAGG}$ GAA $A \operatorname{GGG} \operatorname{GA} A G A A A A C A A G A A G G G G A A G A G G G G G G B A A G A C A G$ $A C C G G G G A A C C T T G G A A A A A A G A G G C C A A G G A G A A A G G G A A G$ G G G G G A A C C A G G G G GAAATAAAGGGGGGAGAGCCGEAAA GAA
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 AA GAAAAGGGGCCAAGGAAAAAACCCACCGAGAAGAAGAAAT TAACATTAGCCAACCAAAAGGAAAAGGAAGGGAAAAACAAAA A GAGGAAAAGGAAGGAAGGGAGGGGGGGGCAGGAACAAGACA A G GAA A G A A A A A A A A A A G G G G A A G G G G A A A G G GA G A A G G G G A A G G A G A A G A A C G G A A A A T T A G G G A A G A G G A G G G G G A A G G A G A $G C A A G A G G G A G A G G G A C A A A G G G A G A G G A A G A A A A A G C C C G G$ $G G A A A A A A A G G G G G G G G G G G C G G G A G G G G A A C C G C C C G A A G A$ AAGAACCCACAAGAGAGCCGAAAGAACAAGAGAGAGAAAGGG

G G G G G A A G G G G A A G G G G C C G A G G G A A A GAGGAAAGGGGA A T T G A A A G A A A A A A A A A A A A A G G A A A GAGAAGGAGAATTCAAAA G G G G G A A A A GAGGACCAAGAAGGAAAAAACCCCAAACGAAAA A GGAAGGGAAAGGAGAGCAAGCCAGCCGAGAAAAAAAAGAGG G G GAGAGACGAAGCACCGGAAAGGAAAGAACAAAGACGGGGG GAAGAACGAAAACGGGGGGGGGGAGAGGAGGGGGGAAAAAAA A A A A A G G A A A A C C A A G G G G G G A C G G A G G G T T G G A A G A G A G G C CCAAGCAGAGAGGAAACGAAAGGAGAAGGAAAGGAGAAAGAA A A G G G G G G A G G A A A A A G A A A A G G A A A A A G GA GAAAAA G GAA $A$ AAGAAGGAAAGCCGGGGCAAACAGATAAAAAAAAGAAGAAAG C G G G G G GAACCGGAAGAAAGAAGAAATAAGAGGGGAGAACAA A G GCCAGGGAAGGGGAAAAGGGGAAAAGGCCAGAAAACCGGG GACTAAAAAAAGAAAGGAAGGAAGGCAGGCAAGGAGAAAGAC C C A A G G A G A A CAG G GAAGGCCCCAGAGGGGGGGAAGGGGAAA
 GTTGAGAAAAGGAGGGGAACCGGGGGGAGCCGGAAAAAAGGG GAGGAAGGAGAAGGGAAAGGGGACCGAAAAACCCCGGBACAA A A G G G A A A G A A A A A A A A A A G G G G T TAAAAAGGAGA G G GAAAA A GAAAAGGGGGGAAAAGGAAAAGAGGACGGGGGGAAAGGAGGG A GAG A G G G G A A G G A A G A GA A CAGAAGGAAAGGGA GAAAATX G AACGGAAAACCGGGAAGGGCCAAAGGAAGACAAAAAAGAAAG A A A GA $A$ A $\operatorname{G} G A T A G G G A G A A G G A C A G A A G G A A A G G G G A A C G G G$ GAAAAGGGGCCGGGAGGAGGGGGCCAAAAGGGAAAGGGAAAG G G G A A G G A G A C A A A A G G A A G G G G G G G G A A G G G A A A A A G G G G C $A C C G A G G G A A A A G G A G A A G C A A G G A A C G A A A G G G A A A G G C C G$ AA GAGAAGGAACCAAACGGAAAAGGAAAAAGAAGGEAAAGAA A G G G G GAACAG $A \operatorname{A} A G G G G A A G G C C G G G G G A A C A G A G A G G G C C G$ A G G G G A G G A G G A G A G G G A A A GAAAAAAGGGAGAAA GAA G G CACA A A C G G A G A A G GAGGGGGAAAAGAAGGAAGGAAAAAGGAGAAG G G G G GAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} C \mathrm{C} G \mathrm{G} A A A A A G G A G G G G G C C G G G G A G G A A G A$ A G G C C G G G A G G A G A A A A A T GAGAACAAGGAAGGAAAGAGCAG G G GAGAGGGGGCCAAAAAAAAGGGGAAGGAAGGAAAAAAAAA $A C C A A A A C C G G A A G G G G A A A A A A G G C C G G A A A A A A A A G G A A A$ A G G G G G G A A G G A A A A $\mathcal{A} G G G G G C C A A G G A A A A G G A G A G G A A G A$ G G G A G G G C C G G A A A G G A G G A G G G A A A A G G A C G G C A G G G G A A $G$ GAGCCGGAAGGAGAAAAAGATGGAGGACCGAGGGGGBABAAC C G G G G G GCCACAAACGAAAAAGGGGAACCGGAGAGGGGAAAA ATTCCAACCCCAGAGAAGGAAAAAGCCGGAAGAAGAGAGGAC A A A A A A A G GAACC G GAAAAAAGGAAAAGGGAAACCCCAAAA G
 $A C C G G G G G G G G A A C A A A A A C C A G G G G A G G A A A G G A G G G G G G G$ GAACCGACCGAGGAAGAAGAAAAGAAGAAAGCAAAGGAGCCG $G C A C C A A G G A G G G G G G G G A G G G G G G A G A G G A A C A A C A A G A A A$ A G GAAA A GAAA $A \operatorname{A} \operatorname{A} A A A C A G A T G G A A A A G G A G A A A A G A G A C A G$ A A A A A G G G G G G A G A A A CAA $A \operatorname{G} G A A G G A A A A G G A A A A G G A G G C G$ G GACCAAGGAAGGGGGGGGCAAGGAAGAGGAAAAGAACAAAA AAGCCGGAAAAGGAAAAAGGAGGACCCGGAAGGGGAAAAAAG
 ACAAGGGCCACGGGGGAGAAAGAGGGGGGGAAAGGGGGAGGG GAGAGAAAAGGGGAAGGGAAAAGAGAGGAGAAAGGCCABAAA G G GAACCAAGGAAAAAAAAGGAAGGGGGGGGAAGGGGCCGBA A G G A A C C A A A A A A A A G GAAAAAAAAAGGGGAAAA GGGGGGCC G G T T A A C C G G A A C C G G G G A A A A G GAA $A \operatorname{GAAAAAGGGGGGGGGGA}$ AAAAAGGGGAAAAGGGGGGCCGGAAAAAAGGCCAAGGGGGGA A G G A A G G G G G G G G G G A A G G C C G G A A A A G GCC G GAA G G G G A A A A A A A A G G A A A A A A C C G G A A A A G G A A G G G G G G A A A A A A A A G G G GAACCGGGGAAAAAAGGGGAAAAAAAAAAGGCCGGAAGGGGA A G G G G A A G GAAAAAAGGAAAAGGAAAAAAGGAAAAAAAAAAA AAAAAAAGGAAGGAACCAAGGGGAAAAGGAAGGCCAAGGGGA

AAAGGGGAAAAGGCCAAAAAAGGGGAAAAGGAAGGAAAAGGG
 AAAGGAAAAGGCCAAAAAAAAGGGGAAAAAAGGAACCAAGEC $C \subset C G G A A C C A A A A A A G G A A G G G A A A A A G G A A G G G G G A G G G G A$ AAGGACAAGAAGGCCGGAAAAGGAGGAGGAGAAAAGGGGCAA GACAGAGGGGGGAGCACAAAAAGGGAGAAGGAAGAACBGAC G GCCGGATAAAAGACACCGGAAGAGAAAGGAAAGGGCCATGGG G G G G G GAA A A GAGGGAAAGACAAAGCCAGGAAAAATTAAAAA A G G A A G G A A A GAGGAAAAAGAAAAGGAGAAAAAGBAACACCC CAAGACCGAAAAAGGAAGAGGAAAAAAAAGGGACCAGGGAAA A G G G G GACAAAGAAAAAAAAGAGACCCCAGGCGGGGGAAAAG A G G G G A A A GAGGAACAGAAAACAGGGAAGACAAAGGAGACAA
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 G G GAACCAAGGAAGGGGAAAACCGGAAAAAAAAAAGAAAAAC CAAGGGGGGAAGGAAGGGGGGAAGGGGAAGGGGAAAACAAAA
 A G G A A A A G G A A A A G G A A G G G GAA $A \operatorname{AGGGCCGGGGAAAAGAAAA}$ A G G G G A A A A A A A A G G G G A A A A G G G GAAC CAAAAA G G G G G G T T G G G GAACCAAAAAAAAGGGGGGAAAAGGAAGGCCAAGGAAGAA
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 CAAGGAAGGGGAAAAAAAAAAAAGGAAGAAGGACCAGAAAAA G GAACGGGGAAAAAACCCCAAAAGGAAAAAAAAAAGGGAAAA $A G G A A A A A A G G G G G G A A G G G G A A G G A A G G G G A A G G G G G G G G G$ GAAAAAAGGAACCGGAAGGAAAAGGGGGGAAAAGAAAAAAAG G G G G G G G G GC C G G G G G G A A A A A A G G C C G GAA A G G G A A G G G G A A A A G G G G G G G G G G A A G G A A G G A A G G G G G G A A A A G G G G G G A G G G G GAGAGAGGGAAACAGGACAGGAAAGGGAAAAAAAGAAGGG A G A A A A A G A A A C CAAAAAA AAAAAAAGAGGGAAA GA GA GA GA G G G A GCGGGGGAAGGGAAAAATAAAGGGGGGGGAAACAGAGG AGGCAGAACAAGAAAGGAAACGACAGGAAGGAGATAAAAAAA AAAGGGAAAGACAAAAAAAAAAAGGAAAAAGAACAGGGACAA A GAGAGGGAGGAGAGAAGGGGAAAAAGGGGGGGGAAACCGGA AAAGGAGGGGGAAAGAACCACACGGGGGGGACCAAAAGAAAA A G G A C A A A G G A A A G G G A G G A TACAGGGAACCAATA G GA GA G G GAGAGGACAAGGGGGGGAAGGAGGGAGGACCCCGGGGGGGAA A G GAACCAAAAAAGGGGAAAAGGCCCCGGAAAAGGGGAAGAC CAAGGAAAAAAAAGGACCCGGGGAAGGAAAAGGGGGAGAGGA

AAAAGGACAGGGAAAGGAAAGAAACAGAAGGAGGAAGGAAGA GAA $A \operatorname{GGG} \operatorname{G} A A A A A A G G A A A A G G G G G A A G C C G G A A A A G G G G G G G$ G GAAG $A \operatorname{GGGGGA} G G C C A A A G A G C A C A A A A A C A A G G G G G A A G G A$ A G G G G G GCCAAAAGGAAGGAACCCCGGGGGGAAGGGGAACCG G G GAAAAGGAAAAGGAAAAAAAAGGAAAAAAAACCGGGGGGC C C C A A A A G GCCAA G GAAAAGGAAGGAAAAAAAAAGGAAAA GA G G GCCAAGAAGCAAGGGGACCACAGAGAACCGGAGGGGAGAA $A C C G A A C A G G G A A G A C A G G G G A A A A A A A A A A A A A G T T C A G A G$ G G G A A G G A GCC C A A G G G C C G G A GAGCCAGAGGGGAGAAAAA G G G G G GAGAAGGGGGGGGAAGGACAGCCGAGGGGGGAAGAAAG A A GAGAGAGAAGGGGAGGAGAGAAAAAAGAAGGGAAGGAGAA A GAAAGGAAAAAGGGGGGAAGAGAAAAGCAGGAGAAGAGGGG GAAAACCGGGGGGAAGGAAAGAGACAAGAAGGGGAGAAAGAA G GACCAGCAGGAAACCGGGAAGGAAGGAGAGGCGAGCAAGAG GAAGGGGAAAAAAGGGGCCGAAAAGAGGGAAAAGGGAACAAC $C \subset A G A G A C A A C G G A A A G G G A G C C A C G G C C A G A A G G C C A A G G A$
 $A C C A A G G A G A A A G G G A G G A A G G A G G A G G G A G G G G A G A A A A A A$ $G G A C C G G A A A G A G G G G G A A G G C C G G G G C A A A A A A A A G A A A A A$ A G G A A G A A C G G GA $A \operatorname{A} A G G A G C C G A A G A G G G A A G G A G G A A A G A A$ A A GAGGGCATTAGACCCGGCCGAAAGGGGGAAAGGAGGGGGA G G GAGGACCGGGGAGGAGGAAGGAAAAGGGGAACAAGAGAGA

 AAAGGAACCAAGGGGGGGGAAAAGGGGCCCCAAAAAAAAAAA AAAAACCAAGGGGAAGGAAAAGGGGGGAAAAAACCAAAAAAG G G GCCAAGGGGAAAAAAGGAACCAAGGGGAAAAGGTTGGTTA
 $A C C G G G G A A C C G G G G A A G G A A A A G G G G A A A A G G A A G G G G G G G$ G G G G A A A G GAA A G G G G GAA A G G GAAAAAAAGCGGGGTTAACAC A A A G G A A G G G G G G A A A A A A C C G G G GAAA A C GAGGA G G G G G G A A GAGACAACCACGAGAGGGGGGCCCCACGAGGCGAAAAGGGGG G G G G GAACCGGAAAAAAAAAGACAAGGAAAAAAAAAAAACCC C G A A A A A G GAACCGGGGAAAAGAGGGGAGAAAACCGGGAAAC A A GAGAAAGAGGAAAAGACTAGGCCAAAAGGGGAAAGAAAAG G G GACAAGGGGAGGAAAGGAAAAAGAGGAAGAAGAAAAAA GA $G C A A G G A G A G G G G C C C C A A A C G A C A G A G A A G A G A A C C G G G G G$ G G GAGGGAGACCAAGAGGGGGGGAAAAGGAAAAGAAAAAAAA A G G G G A A A GCCAA G G G A A A G G A A A A G GCCCCAAGGAAGAGAC $A G G C C A G G A A A G A G G A A A G C A A A G G A A G G A A A A A A G G G B A C B$ ACAGGGGCCAAACACCAAAAAAAGAAAACGGGAAACCAAACC C G G G G C A G G A T A G G G G G G G A G A A G G A A A G G A A G G A A A C C G A G AAAAACCCCCCGAAGGGAGGGGGCCAAAACCAAGGGAAAGAA GAGAAAAGGGGATGGGGAGGAGAGAAAAAACGAAACCABAAG G GAA A G G G G G G A G A A A G G A CACCAAGGAAGACCAA GAAAGGG GAACCCCAAAAAAAAAAAACCAAAAAAAAGGGGAAAAGGGGA A G G G G GACACCGGGGGGAGAGAGCCAAGGAAAAAAAGA GAC G
 GAAGGGGAAGGGGGGAAAAGGGGGGCCCCAAGGGGAGAAGAA G G GCAGGCGAAAAACAGAAAGAAAAGGAACCAAAAAAAGAAA GAAGGAAGAAAAGGGGAAGCCAAAAGGGAGATAACGAAAAAG GCATTAGAAGGCCGGGGTAAAGAAAGGAAGGGGAAAAAAAAA A A G A A A A C C G A GACCAGAGGAAAACGGAAAGGAGGAAAGGGG AA $A G G A A A A G G G G A A G A G G G G A G A G A A A A A A A G T T G G A G A G G$ A A G G G G G A G G A A A G GAA $A \operatorname{A} A A A G C G A G A A G G G A A A A G G A A G G C$ CAAAACCAGGGAAAAAAAGCCGAAAGGATCCGACCACAAAGC GAGACCCAGGAGGAACCGGCAAAGGGAGGAAGGGAGAAAGAA A G G A C A G A G A G G G G G G G G G A G G G G A A G CA C C A A C A G G G A A A $G$ A A G G G GACCAAGGGAAGGGGGAAGGAACCGAGGACTTGAAAA
$A C C G G A A G G A G G G G G A G G A A A G G A A A G A A A A G G C C G G G A A G A$ A A A G A A G G A G G G A G A A G A C A GAGGGAGGGGAGAACACAA G GA ACCGGCAAGAAAGGAGGGACAGACACAAAGGGGAAGAAAACB GAAAGGGAAGGACGGAAAGAAGAAGCCAAAAGGCCAAAGGGA GAAA A A A A G G G G GAAAAGGAAGGAAGAGGCAGA GAAAA GAA G G G G A A G G G G A A G A A G A G G G A A A G A G G G G G G G G A A G G G A A G G A GAAACGAGGGGAGAAGGGAGGAAAAAAAAAAAGAGBAAGAAG GAGAGACCAGACCGGCCAGAAAGAGAAAAAAGGGGGAAAGGA A G G A G A C A A G G G G A C G A C C C C A A C C G GC C G GAC GA GAAA G A A G GAAGAGCAGGGAAGACGAGAACGGGGGGAGACAAATAGGGC CAA $A \operatorname{GA} A G A A C G G G G A A G G A A G G C A A G C C A C A C C A G G A G C C C$ C C C G G A C A A A A G G G C G G G A G G G G G G G A A A A A G G G GAA $\mathcal{A}$ G A $G A$ A G G A A G G G G A A A A G G A G A A GACCGAAAGGGAAGGAAAGGGGA GAAGGGGCAGAGAAGAGAGAGAAAGAAAAAGAAAAAGGAAGAA G G GCCGGAAGGCCAACCGAGGGGTAAAGAAGAGGACGGAGGG GAAGGGAGGACAGCCAAGGAGAGAGGGGGAAAAGGGAAAAAA $A G G C A C C G G A A A A G G A A A A G G A G G A G C G G A A G G A A A A G A A A G$ GAAAAGAAAGGAAAAAAAAGGAAAAGGAGGGTTGGGGAACAA A G GAGCCAAAAAAACGAAAGGAAGAGAAAGGCCGGAACCGGC C A A A A A A A A GAA $A \operatorname{GGGGAAAGGAACCAGAACCAGAAGAAAGGT}$ TAGGGAAAAAAGGAACCAGAGGGGGAACCAAGGGAGGGAGGG A G G A G G GAGGGCCTTAATTGAAAAAAGCCGGAAGGAACCGGA ACCAAGAGGTTCAGAGGAAGGAAAAAAGGAAGACCAGAGAGG A GAGGGGAAGAAAAAGAAAGGAGCAGGAGGAAGGGGAAAAAA A G G G G C C A A A A A G G A A A A G G G G G A A A G T T A G C C G G G A A G A G G A G G GACCACGGCCGGAAGGAAGGAAGAAGGGAGACGGGAGAA A GAAAGGACAAGGCCAAGAAAGGAAGGAACCAGGAAAGAAAA A A A G G A A A G A A A A A GA $A \operatorname{GAAAAGGGGAGAGGAAAGGGGGAAAG}$

G GAAGGAAGGAAGGAAGGGGGGGGAGGGAGAACAGGGGAAG GAAAGACGGGGGGGGACGGAAAAAGAGGGCCGGAAAAAAAGA GAAAAAAGGATGAGAGAGAAGAGAAAAAAAGCCAAAAAAGGA A G GACGGAAAAGAGGCCAAATAGAACCAAGGGGAAGGAGAGG GAAA A GAC GAGAAAGACAAAAAAGGAAAAGGGGAGBAAAAAA A A A G G A G G GCCAAAAAAGGGGAGGAGGGGAAGGGGGGGAACC C G GCCAAAGAGGGCCGGAAAACCAAAAAGAGAA GAAAGGGGG G G G G G G GCCAAAACCGGAAAACCAAAAAAAACCGGGGAAAAA AGGCCAATTGGGGGGAAAACCGGAAGGGGCCAAGGGGAAGGG $G C C A A C C A A G G A A G G A A A A G G G A G G G A C G G G A A A G G G C C G G A$
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GAGTAGAGGGGGGGGAAGGGGACAAGAAAAAGAGGCAAAAAA TGCGGAACCCCCCGGAGGGAAGGAAGGAGAAGAAGAGAGCCC C G G G GAAGGAAAGAAGAGGAAAAGGCAGAAAAAAAGAAAAAA GCAACGGAAAGGGGGAGGAGGAAAAGAAAGAGGAAGGAGAAA A G G G GAACAGGGGAAAAAACCCGACAAAAAGCCAAGGCAAGAG A A A C C G G A A G A G A A G G G G G G G G G A A G G A A A G G G G A G G A A G G A AAAGAGGAACCCCGGGCAGATGAGGGAGAGACCAAAAAAGCG A GAGGCAGAAGCCGGGGTAGGAAGGGGAAAAAAAGAGAGGGG GAAAAGGAGCCAAACGGACGAGGAAAGGAGGGGAAGGATAGC CAAGGGGGGCCTTCCGGCCAAGGAGAGAGGAAGAAGGAGAGA G G GAAAAGGCCAAAAAAGGCCGGGGGGAACCGGAAGGAAGGA A A A A A G G A A A A G GCCGGGGAAGGGGAAAAAACCAAAAAAAAC CAAAAAAAACCAACCGGGGAAAACCCCAAGGAAAAGGGGGGG G G G G GCC G GAA A G G GAAAAGGAAGGGGAAAACCAAGGAAAAC CAA $A \operatorname{GA} A A A A A G G A A A A C C G G G G G G C C A A G G A A G G A A G G C C G$ GCCGGGGGGCCGGAAAAAAAAGGAAGGAAAACCCCAAGGCCA A A A A A A A A A G G G GAAAAGGGGAACCGGGGGGAAAAGGAAAAA A G G G G A A G G G G A A C C A A G G A A A A A A A A A A A A A A A A C C G G G G G GAAGGGGAAAAGGCCGGGGGGTTCCGGCCAAAAAAGGGGGGG GAAGGGGAAAAGGGGGGGGAAAAAAAATTCXAAGGCCAAGBA A G GAAAAAAGGGGGGGGGGGGGGGGCCGGGGAAGGAACAAAA A A A A A A A A A A A G G A A A A A A A A A A A A G G G G G G G GAA T T G G G G A $A C C A A T T G G A A A A G G A A G G G G A A A A G G A A G G G G A A G G G G G G A$ A G G A A A A A A G G A A C C G G G G A A A A G G A A A A G GAAA A GAAC G G C CAAAAAAGGAAAGGGGAAAGGGGGAGGGGCCAAGGGGCAAAA AAAAAAGAGGGAGAGCCAAAAAAAACCAGAAGGAAAAGAAAG GAAAGGGAGAAGGAGAAAGAAGAAACCGAAGAAGGGAGACAA C G G G G G G G A GAA $A \operatorname{GGG} \operatorname{G} \boldsymbol{A} G A A C A G G A G A A A G G A A A G G A C A A C A$ A GAGAAAGGCAGGGGGAGAAACCAAAGGGAAGAAGCCAAGGG GAACCCCGGCCCCCCAACCAACCAGCCAGAGAACCCCAAGGA AAC G A GAGGAAACGGGGCACAGAGAAGGGGGAGAGGACAAAG AAACCGGGAAAAAAAAAAAAAAAGAGGGGCCGGGGAACCCCG A A G A G G A T T G G G G A G G G G A A A G GAGCAG G T T A C G G A G C C G G G A A G GAA A G GA $\operatorname{A} A A \operatorname{A} A A A A G G A G A A G G A A A A A A G G G A G G G G G G A$ GAACAGGGGGAGGGGAAAAAGGGAAAAGAGAAAGGGGGAAGG G G G A A A A A A G GAACCGGGGAAGGGGGGCCAAAACCGAAAAAA G GAGAAAGAAAAAAAGAGAAGAACCCCAAGGAAGAGGAAAAA A G GAAAAAAAAGGAAAAGGAAGAACCCGGGGACGGCCAAGAG GAA $A \operatorname{GA} A A A G A G A G A A A G G G G A G G A G G A A A G G G A G A G A A G A G$ A G G G G G A G G G G C A C C C A A G G A G G C C G G A A G G G G G G G G A A G G G G G G G G G G C C T T G GAAAAAAAAAAAAAAAAAAACGGGGGAAA G GAAAAAGGGAAAGGAAAAGGAAAAAAGCCAAAGAACAGAAAC C GAGGAGACGAGGGGGGAAAACCGGCCGGGGAAAAAAAAAAC C C C G G A G A G A A A A A A G GAA $A \operatorname{GGGAGACGACACGGGGCCGAAAA}$ AAAGCAACCGGAAAAGAAGGGAAGGAAGAGAAGCCAAAAAAG GAGGGAAAAAACGGGGGAGAAGAAGGGGGAGCCAAGACAGAA A A A G G A A A A A G A A GAGGAAAGGAAAAAAAGGAGGGCCGAA GA G GAGGGAAAAAAAAGAGGAGCAGGGGAGGGGAAGGAAGAGAA GAACCGGAAAGCCGGAAAAGAAGAGAAAAAGAAAACCAAGGG GAACCGGGGGGAAAAGGGGGAGAAAAAAAAACAAGAACAAAA A GAGGGAGGACGAAACCAAAAAAGGCCGGGAAGACAAGGGGA $A C C A G A C A G G A A G G A G G A G A G G G A A G G G G A G A G A C A A G A A G A$ C GACCACAAGAAACCCAAGGGGAGGCAAGGAAGACCCGAGGG GAAGAAGAAAGGGAAGGGACCAACAGGAAGGGGACGGGGAGC C GAGAAAGGAAAAGGAAGGGGAAAAGGAAGGAGCAAGAACCG GAACCAAGGAAGGAATTGGAACCGGGGGGAAACCAAAAACCC C G GCC GAAAAGGAGAAGACAAGAGAGGAGCCCAAAGAAAGGG G G G A G C A A G A A C A G G G G G G G A G G G G G G G A C C G G G G G G C A A A $G$ GAAAAAGCCCCCAGGAAGGAAGGAACCAAAAAGAAACGGGGG

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 $A C C A A A A A A T T G G A A A A A A G G G G G G A A A A G G G G A A G G G G C C G$ GAAAA $A \operatorname{A} A A A G G A A A A A A C C G G A A G G A A A A G G G G G G A A A A G G G$ G G G G G G G G G G G A A G G G G G G A A A A A A G G G GAA $A G G G G G G A A A A$ AAAAACCAACCAAAAAAGGAAGGGGAAGGAAGGGGAAGGGGG G T T G G A A A A G G A A G GAA A A G G G G A A G G C C G G G G A A C C G G A A G GAAAAAACCCCAAAAGGGGGGGGGGGGAAGGAACCAAGAAAG
 G G GACACAGGGGAAACCGGCCGAAAGGACGGAAAGAAGGGGG

 GAGAGCCGAGAGGGGAAAAAAAAGGGGAAACGGGAAGCACAG GAGGAGAAAGAACGGAAGGAGGGGGCCAAAACCGGAAAAAAA
 $C T T G G A A A A A G A A G A G G A A A G G G A A G G G G G G G G G G A A C A A A A$ A G GAAGGAACCAACCAAGGCCGGGGGGAAAAAAGGGAAAAAG $G C C A A G G G G A A G G A A A A C C A A A A G G G G G G G G G G G G A A A A A A G$ GAAAAAAGGAAAAGGAAGGAAAAAAAAAAAAGGCCAAGGGGG G G G G GCCAAAAAAAAAAAAGGAAAGGAAGGAAGAGCCAAAGG A G A G A A A A A A A GAGGGAGGAAAGGAGGCCGGGGAAAACAAAG G G GAAACAAAGAGGGCCAGGACCGAAGGAGGGAGGGAGGGGG A A A G G A A $\mathcal{A} G G G G G A A G G G G C C G G G G A A G G A A G G G G A A A A A A A$ AGGAAAAAACCGGAAAAGGAAAAAAAACCCCCCAAGG
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 C G GCACCCCAACAAAGGAGAAGAGGGGAAGGTAGGAAGAAAG G G G G G A A A A A A A A G G G A A G A A C C G G G G G G G G G G A G G A A A A A C CAAAAGAGGGGAAGGAAAAGGAGGAAAAGAGGGGAGAAAAAG
 G G GACGAGGGGGAAAAAAAGGCCAAAGGAAGGGAGGGAGACG G G GAAAAAAGGGGAAGGAAAAGGAAAAAAAAAAAAAAAAGAA A A A G G A A $\mathcal{A} G G G A A A A A A A G G G G G G G G G G C X A A A A G G G G C C G B A$ A G GAA $A \operatorname{G} \operatorname{GAAAACCAAAAAAGGCAAGAAGAGAAAGGGGGGGGG}$ G G A G G A A C C A G C A G G A G GAAAC C G GAAAA A A G GACA G CA C C G AAGAAGCGGGAGGGGAAAAAAAGAGACCCAAAAGGAGGGTTC

C G GCCAGCCGGAGGGGGAAAAGGCCGAAGGAAGCCGGCAGAC C C C A A G G C C A A G G G G G G G G G G C C G G A G G G A G G A A GA G G A A A $G$
 A G G G GAAAAAAGGGGCCGGGGCCAGGGAGCAAGCAGGACAAA G G GAAGGCCGGAAAGAAGGGGAAGACACAAGCAGAGGCAGAA GACAGCCAGAAAAAGGGAGGGGGAAAAGGGAGGAAAAAGCAC
 $C \subset C G G A A A A G G A A A A G G G G A A C C A A G G G A A A A G C C G B A G A G G$ GACAGAGAAGGAGAGAGACAGAAGAGGGGCCGGGGGGGAAGG AAAGGGAGAAGAGAGAAAGAGGGAGAAAGAGGGAAGAAAAAA A G G GAGGCCCCCCGGGGCCGAAGGGGAAGAGGAAGGGGAGGG G G GAC GACAACAAAGAAAGAGCCGGAAGGAGGGGGAAGAAAG G G G GAA ACCAAGGAAAATAGGAGCACACAAGGGAAAAAAGAA G G G G A A A G G G A G G A A A G A A GAA A A GAGGAGGGGGGAAAAAAA CA $A \operatorname{GA} A \operatorname{A} C A G A G G G G G G G G G G C C G G G G G G G G A A G G G G A G G G G$ AAAGGGGAAGACAGGGGAAGGAAAAAGAAAAGGGGAAGAAGA
 $C \subset C C G G G A G G G A A C C A A C C A G G A A G G A G A A T G G G A G G G A A G A$ A GAGGGGGACCGGGGCCAAGGGGAAAACCAAAAGGGGGGCGC A A A G G A A C C A G G G G G C C G G G A C A G G G A C A A A A A G G G G A A A A A $A C C G G G G A A G A G G G G G G A G A A A A A A C C A G G G A G G G A A A A G G A$ A GAGGGGGGAAACGACCGGAGCCGGGGAATTAAGGAAAAGAA AAAGGCCAACCAAGGAACCCCAAGGGGGGGGAAAAGGAAAAG $G C C A A A A C C A A G G A A A A A A A A A A A A G G G G A A A A G G A A G A A A C$ C G G A A C C G GCCAAAAGGGGGGGGGGCCAACCAAGGAAGAAAG G G G G G G G A A G G A A A A G G G G G G C C A A G GAAAACC G GAACAAAA A G G G G G G G G G G A A G GCC $C$ G G G G G A A C CAAAA A C C G GAA G G C C G G G G A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G G G G G A A G G G G G G A A G A A$ $A C C A A A A C C A A G G G G A A A A A A A A G G G G G G C C G G A A A A A A G G G$ G G G G G G G A A G G A A G G C C A A G G G G G G A A G G A A G G A A G G G G G G A A A A G G G G G G A A G G G G G G A A G G C C A A G G G G A A G G A A G G G G A A G G GAAAAAAAAAAAACCAAAAGGCCGGAAAAAAAAAAGGGGG GAAGGAAAAGGGGAAGGGGGGAAAAGGAACCAAGGAAAAAAA $A G G G G A A G G G G G G C C A A A A G G A A G G G G G G A A A G A C A A G G G A G$ A CAGAGAAAGAGAGGAAAAGGCCGGAAGGAAAAAAGGGGGGA A G G G GCC G G A A G G A A A A A A A A A A G G G GAAAAAAAAAAA GAAAA A G G G G A A A A G G A A A A G G G G G G G G G G G G G G G G G G A A G G G G G G G GAAAAGGAAGGGGGGGGGGGGAAAAAAAAGGAAGGGGAACAA A G G A A A A A A G G A A G GAA $A \operatorname{A} G A A G G G G G G A A G G A A A A G A A A G A A$
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 $A G A G A G A G A G A G G A A G G A A A A T T G G G G A A G G A A G G G G G A A A A$

A G GAAAAAAGGAAAACCGGAAAAGGAAGGGGACAACCAAGAG GAGGGAACAGGAGCCAGAGGAGAGGGAGAAGGGGAAGCAAAG GAAACCGAGAGAGACAGCAGAGAGGGACAACAGGAACACABG AACAAAGGAAGAGAAAGATAGAAGGAAGGAAGGAGGAGAGGG A G GAGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAGGGGG GAAGGAAGGGGGGAAGGAAAAGGGGAAGGAAAAAAAAAAGGG G G GCCCCCCAACCGGGGAAAAGGAACCAATTAAAAAAGEGGA $A C C A A A A G G G G G G A A C C A A A A G G G G A A G G G G G G G G G G G G G G C$ CAAAAGGCCAAGGAAAAGGAAAAAAGGAACCAAGGAAAAGAA AAAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAAG G G G A A A A G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAACCGGAAAAGGAAAAAGGGGGGC
 A G G G GCCCCGGGGAAGGAAAAAACCGGCCAAAAGAAAGGGGG G G G G GCCCCGGCCGGAAAGGAGAGAGGGAGGAAGAGGCAAGB GAAA A GAGGAAGGAGAAAAGAAGAGGGCAGGAAAGAAAACCG A A A A A A ACCGGGGGGGGGGAAAAGGCCGGAAAAAAAAAAAAA A A A G G A A G G G G G G A A A A A A $\mathcal{A} G G G A A A A A A G G A A C C A A G G G G G$ G GAAAGGGAAGAAGGAACAAAGAGGGAAGCCGGAAGGCACAA $G G G A A A A G G C A A A A A A A G G G G A A A G G A A A A C G G G G G G G G G G G$ GAAAAAGAAGGGGGAAAGGGGAAAAGGAGGGGGGGCCAAAAA G G G GAGGGGAAGGCAGGGGGAGGAAGGGGACCCAAGAAAGAG GAGAGGGGGGAGAGGAGGAAAAATAGATTAGGGAGACAGGBA GAGGGAACCACAGAGGGAGGAGAGGAAGGAAAGAAAGAAAAG GCCGGAAGGAGAGAAAAGGGGCCCAGAAGCCCCAACCAAACA A G G G A G G G A A A A A A A A A G G C G G G A A A A A A A A G G A A A A G G A A C AAACCCCGGACAAGACAAAAAAAAAAAAAGGGGGGGGTTGGG1 GAAAGAAAAAAGGGGGGAGAAAAAGGGAACAAAGGGGAAACA A G G A A A G A A G G G GCCAA A GAGGACCAAAATTAAGGAAGACAA $A G G G G C C G G G G A A A A A A G G A C G G G G A A G G A G G A A G A A$
A A GAAAGGAAGGACCAGGAACCAAGGGGAGGAGAGGGGGGG G G GCCAGCCAACCAGAGCCCCCCGGGGGGAAGGGGAACAAAC GAAAAAAGGAAGGGGAAGGCCGGTTGGGGAAGGGGGGGAAAA A A A G G T T G GAA $A \operatorname{GAAAAAAAAAAAGGGGGGAAGGGGGAAAGGG}$ G G G G G G G G G A A G G A A A A A A A G G G G G G G G G G G G G G G G G G A A A A $G$ G G G A A C C G G G G A A A A A A G G T T G G G G G G C C A A C C A A A A G G G G G GAAAACCAAAAAACCAAAAGGGGGGGGAAGGGGAAGGGAAAA A A A G G G GAACCAAAAGGAAAAGGGGGGAACCGGGGAAGGGGA A G G G G A A A A G G G G G G G G A A A A G G G G C C G GAAGGGGAAAA G A A A G G A A A A C C G G A A A A A A G GAAAA A G A A A GGGGGGAAAAAAAA A G G G A A C C G G G G A A G G G G G G A A G G A A A A A A G G A A A A G GAA $\mathcal{A} G G$ $G G G A A A A A A G G A A A A A A T T G G G G A A G G G G G G A A A A A A A A A A G$ GTTCCGGAAAAGGAACCGGCCAAGGGGGGCCGGAAGGAACAA AAAGGAAGGAAAAGGAAAAAAGGCCAGAAGGAAGAGAAGACA GAAGGAAGGAAAAAAAAAGGAGGGAGGGGAAGAAAGAAGATC G GAAGCCAAAGAGAGGGCCAAAAGAAAAAGAAAAGAGAAAGA A A GCC C G G G G G G G G A G G A G A A A A A $\mathcal{A} G G G G G G A G A C A A G A A B A$ ACCGGAGAGAACCGGGGGGAGGGGGGGAAAAAAGGGGGACAA T G G GAACAAGAACAAAAAAGGGGGGGGGGCCACGGAGAGGAA ACCGAAAGGGGGGAAGGCCAGCAAGGGAACGAGCCAAGGCCG GACCCAGAGGGAAAGGGAAAAACGAAGAAGGGGGGGAAAAAG G A A A A C C G G A A A A A A A A A A A A C C T TGGGGAAGGGAGGCAAA G GAACGAGGGGGAAAAAACCAAGGTAGGCCACCAGAAGGAAAA
 GAAGGAGGGGGGACCAACCAAAGATAAAGAGAAGAAAAAACC AA $A$ A A GAA A A GACACAGGGCCAAGAAGGAGGGGGGAAAAAAC C G G C C G G A G G G A A G G A A A G A A A A C C A G G G G GA G G G G G G A A G A A G A A A A A A A G A G G A G G GAA A A A A A CAAGGGAGAAAAAAAG G T AAAAGAACCGGGAAGAAAAGGGGCAAAAGAAGAGAAAAAAAA A G G A A A A A ATTAAGGAAAAGGAAGGAAGGAAAAAAAATTGGG

GAAAAAAGGAAAAAAGGAAAACCAACCGGCCAAAACCGAAAG GAAAAGGGGAATTAAGGAAAAAAGGGGCCCCAAGGGGGAAAC C G GAA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} C A A A A A C C G G G G A A A A A A G G C C G G A A G G G G A$ AGGGGAACCAAGGAAAAAAGGCCAAAAGGAAAA GGGGGGCCG G G G G GAA $\operatorname{G}$ GAAAAAAAAGGAACCAAAAAACCGGGGGGGGGGA ACCGGGGGGCCGGGGAAAAGGAAAAGGGGGGAAAACAAAAAG
 GAATTCCGGAAGGGGAAAAGGGGCCGGGGAAAAGGAACAAAG G G G G G A A A A $\mathcal{A} G G G G G G G A A A A A A A A G G G G A A C C A A A A G A A A A$ AGGGGGGAACCAAGGAATTGGAAAAAAAAGGCCAAAAAAAAA A A A A A A A A A G GAAAAAAAACCAAGGGGGGGGGGGGAAAAAAA $A G G G G G G A A G G A A G G A A G G G G G G G G G G G G A A G G C C A A A A G A A$ A A A A A A A A A $\mathcal{A} G A A G G G G G G C C A A G G G G G G G G G G G B A A G G G G G$ GAAAAGGGGCCGGGGGGGGGGGGAAAACCAAAAGGAAAAAAA A G GAA A G G G G G G GAAAAGGGGAAGGAAGGCCCCAAAAAAGGA A G GAACCGGAACCGGAAAAGGGGAAAAAAAAAACCAAGBCAA A G GAA A G G GAA $A \operatorname{GA} A A A A C C G G A A G G A A G G A A A A A A A A G A A A G$ GAAGGCCAAGGAAAAAAGGGGGGAAAAAAGGCCAAAAGAAAG G G GAAGGGGCCAAAAGGGGGGAACCGGCCGGAAAAGAAAAAA A A A G G A A A A A A A A G GCCGGGGGGCCAAGGCCGGCCAAGGGGC C G G G G G GAAAAGGAAGGAAGGAAAACCAAGGGGGGCAAAGAA ACCGGAAGGGGAAAAGGGGGGGACGGACCACGAGAAAGAAGA GCCGGAAGGAAGGAGCCAGCCGGGGAGAAAAAAGGAGAGAGA GAGGAAGAAGAGGGGGGGGAACCGGGAAAAGAACCAAAAAAA AAAGGCCAGATAAACAGAAGAACACAACCGGAAGGAACCGAA G G G A G G A G G G G G G C C G G G G G G G A G G G A A A A GA G C C G G G A A $\mathcal{A} A$ GAGAACAGGAGGACGGAGGACAGGAGGAAAAGGAGAAAACAA A G G G G A A A A G G A A A A G A A G A A A GAAAA $A$ A G GAGGGGGAGA G G A GAAGGGGGAAAGGAGGAGAAAGGAGAAGAGGGAGGGGGAGGG GAAAAAAGGGAAAAAGGCCCCGAGGAAAGACGAAAAAGACGC C G G GAGAAAGGGAGGCCAAAGCCGGAAGAGAGGCCAAGAAAC $C G G A G A G C A G G A A G G A G G G G A A G C C A A A A A G G G A G A G A A A G A$ GAGGAAGAAGGACAAAAGACAAAAAAGAGGGAGCAGAAAGAA C G A GAGGGGAAAAGGGGAAGGTAAACAGGAGGGAACCAAAAG GCCGGAAAAGAAACACCGGGGAGACCCACGGAAAAGAAAGGA GAACAAAGGGGAGGAGGGGAAAGAAGAGAAGAAAAGAA G GAAA G G G G G A A A ACC GAGCAGAAAAGACCAGGAAAGAAGAAAGCCG AAAGGAAAAAAAGAAGGGGGGAGAGCCAGAAGGAGAGACAAA C G G G G C C A A G G G G G G A G G G G G A G G G A A A C C C C A C A GA G G C C G G G G G G A A G G A A A A A A G G A A G G A A A A G G G G A A C C A A A A G G G G A A G GAA A G C C A A C C C C G G G G G G G G G G G G A A G G G GA G A G G A A G C CAGAGAAGGGAACAGGGAAGGAAAAAAGGGGGAAAAGBAGAAA AGAGAGACAAACCGGCCCCGGGGAAGGAGGGAAGAAGCAAAA C G G G A A G G A G A A A C A A A A A A A GAAAAAGGAACCAAAAAAG G G GAAG $A \operatorname{A} A A A G A G A C G A G G G G G G A G G G G G G G G G G G G G A A G A G A A$ A A A C A A C G GCCGGGAGGCAGAGGCCGGTTGAAAGAGGCAGAA G GAAAGGACAAGGAAAAAAAACAGGGGGGGGGGGGGGAAAAC CAAAACCAGCCAAGGACGAGGAAGGAAAAAAAAACGGGAAAG GAGAAAGCAGGAAACCCGGAGCCGAGGGGGGGGCCGGGAGGG A G G GAAAAGACAGGAAGACAAAGAGAGAGACAGGGAAAAAAA A A A A A A A G A A A A GCAACAGAGGGAGCCCCAAGAGAAAAGAAA AAAGGGGAAAGGGAAAGGGAAAAAGGGAGAAAGAGACAAAAA
 GAAGGGGCCGGAGAAAAAAGAAAGGAGGGAACCGAAAGAGAC CACAAGGGGAAGGACGGAAAGAAGACGAACCAGAAGGCCGGG GAAGAAAAAACAAAAAAAAGGGGCCAGGAAGCCCCAACCGGG A GAAAGGAACCGGAAAGAGGAAAGAAGAAGGAACCAGGAAAG G A A A A G A G A G G G G A A A A GAAACCCCAGAAAAAGACAGAAAAA CAAAATTAAGACCGGAGGAAAAAGAGGAAGGCCAGAGAATTA

A A A G G G G G GAAAGGGGGAAGGTTCCAAAAAGAAGAGAGGGGA GAGGGGGGGAAGAGGCCAGGGAACCAGGAGGAAGGGAAAAGA A A TA A A GCAGGGGGGGGGGGAGGAGAAAAAAGACAAGAAGGG G G GACGGAGCAGGGAAGGAGGAGGAAGAGAGAAGCGAAGAAA A G G G GCCGGAA GAGAACAGAAAGAGAAAAGGATGGGGGAAAA A A A A A G G A A A GAA $A \operatorname{A} A G G G A C G A G G G G G G C C A A C A A G A A G A G$ A A A A A T A GCAAAAACAGAAGGGGGGAAGGCCAGGGGBAACCG GAACCCCCCAGGAAAAAACAAGAGGAAAAGAGGGGGGGAGAG GCGCAGGACCAACGGGGGGGAGGGAAAAAAAAAAAAACCGGC $C G G G A G G A A A A G G A A C C G G A A C A A A C A G G G A G G A G G G G G G G C$
 $A C C G A A G A G A A C A G G G G A G C C G G A A G G G G A C A G A C A G G G G G A$ G GAGGGGAGAAACGGGGGGAGGGGGGGAAGAAAGATTGAACG GAAGGAAGGAAGGAAGGAAAAAGAAAAAAGAAGAAAAGGCCB A A A A A A A G G G G G GAGAAAAAGGGACAACAAAGGGGGGACAGA A G G G GAAGGAGAAAGACAGCAGGGAAGGAACGAGGAAAAAAA AAGACAGGAAGACAGAGAGAAAAGAGGAAAAGAAGGGGAAGA $A C C G G C A A A G G A A A A G G G G A A G G G G A A A C G A G G A A A A G G G B A$ $A G G A A G A G G A G G G A G A G G A G A A G G G A A A A C C G G A A G A A A G G A$ GAA A A GAGAAAGGAGGGAAGGAAGAGAGGGGAGGGGGAGAAA AGGAAGGAAACACAAGGACGGGGGAGGAAGGAAAAAAGGTTA GAAAGAAGGGGCCAGGGGGCCAGGAAAGGCAAAGGAAGGAGG G GAAAAACCCCGGAGGGGGAAAACCCAAAAGAAGGAAGAAGG GAAGGGGGGAAGGCCAGAAGAAACCACAAAAAAACAGCCGGC AAAGGGGAAAAGGAACAAAAGGGGGGGACAAAGAAGAAAGGG
 GCCAGGGGGAAAGCCAGAGGGAAGGAAAAGAAGAGGGCACAA A G G G G G A T T G G GAA A G GAA $A \operatorname{AGGGC} C A A A A A A A A A A A G G G G G G G$ GAAAAGAGGAGAGGGGGAAAAAAGGAAAAAAGGGGAC
$A G C C A A G G A G G A A G C C G A G A A A G G T A G G A A G A C C A A A A G C A$ $A C C A A C C A A A G G G G A T A A A C C G G A G A G A A A A A A G A G A G G A G C$ AGGAAAGAAGACCGGGGAACCAAGGAACAAGAAAAGACCGAA $G C C G A G G A A G G C C G A C C A A G G G A G G G A A A A A A A A A G G A A A A G$ A A GAA $A$ A $\operatorname{A} A C A A A G G G G A A A A A A A A G G G G C C C C G G G A A A G G G$ G G G G G A A A A G G A A C C G G G G A A G G C C A GAAA A A A G GA G G A G G A A G G G G A A A GAA A GAA $A \operatorname{A} G A A G A G G G G G G A A G A A A A G G A A A G A G$ GAAAGACAAGAAAAGGAGAGAAGAAAAAAAGGGAGAAGACAA AAAGGGAGAAGAAGGGGGAGAGGGAAAAAAAGGGGAAGACGC

 GAAAGAGAGAAAAAGAGGGGGAAGAAAAAAAACAAGGACGGC CAAAAAAAAAAAGGGGGAAAAGGAAAA G GAAGGGGGAAGEGGA $A G G G G G G G G A A G G A A C C C C A G G G A A G A A G A G A A G G G G G G C C G$
 GAAAAAAAAGGAACCGGGGCAGGGAGAAAGGGGAAGGGGGAA AAGGAAACCAACCCCAAGGGGGGAAAAGGGGAAAAGGGAAAG AAAGGAAAGGGGGAAGGAAGGAAGGAAAACCAACCGGGAAAA GCCGGAAAAGGAAAAGGGGAAAAGGAGGGCAGACCTAAAGGG G G G A A G G G G G G G G G G A A A C G A G G G G G G G G G G G A G G A A A A G G G G G GAAAAAACCAAAAGGGGGGCCAAGGAGAAAAGGCACAAAC $C A C C C G G A G G G G G G G G G A A G G A A G G G G G G C C A G A G A A G G G A G$
 GAGGAGGGGAGGGGGCAGAACCCGAAGAAGGGGACAAACGGG G G G G GCCCCAAAAAAGGAACAGGACAAGAGGGGGAAAAGGGG $G C \subset A A G G G G A G A A C C G G A A G A A C A A G G C C A A A A C A A G A G T T G$
 G G GAA A A $\mathcal{A} G A G G A G G G A G G A A G A G A A A A C G G A A A A A G G A G G G$ G A A G A A G A C GAGAAGGAAAGGAGAGGACCGGAAACGGAAAA G


G G GAACCAAGGGGAACCGGGGGGGGGAAAAAAACCAGAAAAA A GAGACAACAGCCCCGGAGAAGGGGGGCCGGCCAAAAGAAGA CAACCGAGAAAGAGAACGGGGAAAAGAGGACAGGGAACAABA $A C C G G G G A A G A G G A G A A G G A G A A A G C A A G G A A A G G G G G G G G A$ A G GAAAAGGAAGGGGAAATAGGGGGGAAAAAAGGAAGAAAAG G G GAA A A GAAGACAAGGACAAGGAACCAACCAGAGGGAAGAG $A \subset A G G A G G A A A G G G G A G G G A A A A G G A G A A A G A A A A G G G A C A A$ GAAAAAAAGGGACGGGGAAAGAGATGGCCGGGAACGAAAGGG
 AAGAGGGGGAAAGAACCGAAAGGGCCAAGGGAAAGACGAGGG C GAA $A$ A A G GCCAAAAAC $A \operatorname{AAA} A A A A A G G G G G A A G A G A A G A G G G$ GCCTTGGAAAGGAAACAGGGAAGAGCCAAGGCAAACCAAAAG GAACCGGGGAAAAAAGAGGGAAAAAGAAGAAAAGGAGCAGBA GAACAAGAGAAAAGGCCAGGGAACCAAGGAAGGGAAAGAAAA A A A GACCCCCCAGGACCACAAGGAAAAAGGGAGGGAAAAGAG A A A A A A G A A A A GAAAAAAAAACCGGGAGGAAAGGGGGAAAAA GAGAGGGGAGGGGAGAGACGGAAAAGGGGAAAAAAAAAAGAA GAGAAGGGGAAGAACGAGGAAGGGGGAGGGGAGGGACAAAAC C CAGGAAAGGGAAAAAGAGAAGAAGAGGGGGGAAACCGACAG
 GAAGGAAGGGGGACCGAAGAGAGGGGAGAGGGGGGGGAAAGA GAGAAAGCAAGCAAAAAGAGGAAGAAGCAAAAGAGGAAAGAG A A G G A G G G G G G G G G C G A A A A A G G G A G G G G G G C C G A G A G G G G C C G G A A A A A A G G A A A A G G G G G G A GCCGGAAAAGGGACAA G G G A $A C C A G A G A A C C G G G G A G A G G G A A G G A A G G G G A A G A G A G A C A A$ A A G G G GAGGCCAGGAAAAAGGAAGAAAAAGAGGGGGGCAAAAA A G G G G A A A A A A A A G GAA A GAGGGAAAC GAGAGGAGAA GACAC A G GAGGGAGGGAAAAGGCCAAAAGGAAGGAACCGGCCGGGGG G G G G G G G A C A A A A G A G G G G A A G G G A G G A A G G G G A A A G A A G A A AAAGGGGGGGGGGAACCAAAAGGGGGGGAAGGGAGAGAAGAA
 G GGAAAGCCAAAGAAGAGGAAGGCCAGGAGGGAGGGAGGAGA G G A A A A A A A A G G G G G G A A G G G G A A A TACCCAGAAAAA GAA GA GAAGAGGGGAGAGGAGACCCCAAAAAAAAAAAAGBCCAACAG A A A A A G G A A G G A GAGCCGAAGAGACGGGGGGAGGGAAAAGAG GAAAGACGCAAGATTAGAAAGCACAAAAAAGAGGAGAGAGAA A GAAGGGAGCAAGGGACGCGGAACCGGAAAAAAGGAAGAAAG GAAAAGGGGCCGGAAGGCCGGCCGGAAAAAAGGAAAAAAGGC CAA $A \operatorname{G} A A A A A G G C B G A A G G G G C C A A G G G G G G A A G G G G G G G G A$ A G G A A G G C C G G A A $\mathcal{A} G G G G G G G G G G G A A G G G G A A G G A G C C G G G$ G G G G G G G G G G G CAA A A CAG GAA $A$ A G G C C G G G G G G G GCC C C A C C CAAGGGCACCCAAAAGACCCCCAAAGAAAAGGGAGCAAAGGG GCCAACCGGACGAAAGGAAGGCCGGGAGGGAGGGCAGGAGGA ATAGGGAGGGAAAGGACAAAAGAGAAAAAGGAAAAAAGAAGA GAAAAAACACCGGGGGCAGGAAAAAAAGGGGGGGGAGGAABA A A G G G GA $\operatorname{A} G A G G A C A G A A A G G A C G A G G A G G G T A A A A G G A A G A$ A A G G G A A G GCCAAAGAGGAAGAAGGGGAGGAACGACACAAAA ACCGGGGAAAAGGGAAAGAGGGGAAGGAAAAAAGACAGAAAG G G G GATTACAGAAAAGAAAAACCACAAAGGGAAGGAGCACAC C G G A A GACCGACCCAAGGGAAAAAGATACGAGGAAGAAAGAA GCAAAAAACGGGGAGCCGGAGAAAACAGGGGGGGGAGGAAGA A GAACAGACAGGAGGGGCCAAGGAAGGCAAAGGAAAAGAAAG
 A GAGGAGAGGGGGAAGGAAAAGGGAGGGAGACC GAAAGGGGG $A G G G A G A A A G G G G G G A T G G C C A G G G G G A A G A A A G G G G G G C C A$ A G G A A G G A A GAGA $A \operatorname{A} \operatorname{A} A G G G C C A G A A G G G A G A G A A G A G G A A B A$
 A G G A A A A A A A A G G A A C C A A A A GAGGAAGGGGCAAACCGGGGA CAGGGGGTTAAAAAAGGAGCCGACCAAGGCAAAAAGGACAAG

AATAAGGGGAATTAACCGGACAAAAAGGGGGAGAGAGGAAAG AAAGGGGGGGGAAAAAAAAAGAGAAAACAAGAAAGAGAAAAA AAGACAGGGCCAGGGAAAAGGAGAACCAGAAGGGGAAAAGAA C G GAAA A G GAAAAGGGGGGAAAGACGGAGAGGGGGAAGAGAA A GAAA A G G GAGCCGGAAGAGGCCAGAAACGGGGAA GAGGGGA GAAAAGGGGAAGGAAAGAAAGAGGAGGGGAAGGAACCGGGGA G GAAAGGCAAACAGAGGAGGGAAGGCCGGAAGAACGGGAGBA G G G G GAGGGAGAAAAAGAAGGGGGGGGAGACGGCCAGAACAA GAAGGCCAAAACCGGGGAGAGAGGGCCAAGACAGGGGGAAGG G G GAGGAGGGGAACGAAACACCACAGGGGAGGGGGGACAAAC C GAAAAAACGGAAAAGGGGCCGGAGGAAGAAAAGGAAGAAAA AAGGGGACCGGAAGGAGGAAGAAGGAAAGCCGAGAAGACAGG GAAAGGAGAAAGGAAAAAGAAAAGGGGGAAGACGAAAGAAGG G G G G GAA $A$ A $A G G G A A A G A A C C A C G A G G A A G A G A A G A A A A A G G$ GAACCAGGACCAACAGGGAACCCGAGAAAGGGGAGAAAAAAG GAAGGAAAAGGGAAACGGGAAGGAAGGAAGGGGAACACAAAAA A G GCCGAAAGGGGAAAAAAGAGGGGAAGAAAGGCCAAGAAC G $A C C G G A A C C A A G A A G G A G G G A G G G G G G C C G G G G G A G G G G G G G$ $C G G G G C C A G A G A G A G G A G G A A G G A A G G G G A A A C A G C C G A G G B$
 $G C A A G A G G G G G A C A G A A A A G G G G G A G G A G G A A C A G G A A A A G A$ C G GAA $A \operatorname{GA} A A G A A G A A G A A G A G A C A A A A A C A G G A A G G C C G G G$ GCAGGCAGAAAAGGGAGGGAAAGAAGAAGCAGGACAAGAAAG G G GAAGGGGGAGAGAAAAAAACCAACCAGCCAAAAGGCCGGA $C G G A A A A A A A G A G C G G A A G G G A G G G A G G G A G A G A A A A G A A G A$ G GACCAAGGGGAACCAAGGTTGGGGGGAGAAGGAAAGGGAAA G G G GAAAA AAAAGAAAACAAAGGAAAAACGGAGAGGAAAGAG GAGGGGAAGGGGGGGAGAGAAAGAAAAGAGGAGGGAGAGAAC CAAGGAGAGGGGGAGGGAAAAAAAAACAGACAGGGAG
A A A A A A G G A A A A A A A A CAGAGGGGGGGGACAAACA GAA G GA $A C C C C G A G G G G A A G G C C G A C A G G A A A A A A A A G G G A A A G G G G A$ AGGAAGGCCGGAAAAAAAGAGAGAGGGGGAACAAAAGAAAGA
 AAAAAGGAGACCCACAAGGAAAGGGAAAGCCAGGAGGGAAAG GAAAAACGGAGGAAAAAAGGGGGAAAAAAGGGGGGGGAAACB
 $A C C G A G A A G G G A A G G A A G G A A G G A C G G G G A A A A G G T T G G G G A$ A GAGGGAGGGGCACCCGAAAGGGGGGAGAAGAAGAAGCACAA G G G GACCAACCAAGAGGGGAAAACCGGAACCCCGGAAGAAAA GCAA C G G A A G G G G G A A G A T A A G G A G G G A A G G G A A A G G G G G G T TAGGGGACCGGGGAAGGAGGGAGAAGGAGGAGAAGAAGGGGG GACAGAAAACAGGAAGGGGGGGAAAAGGGCCGCGAAGAGAGA AGGCCAGAGGGAAAACCGGACAGAGGAAGAAAGAAAAGGAAA $A C C G G G A C C A A G G C C A G C C G A C C G G G G G G A A G G A A A A G G G E A$ A G GAAAAAACCGGGGAGAAGGAAAAGGGGAGGAGAAGAAAC G GAGAAAACAGGAAAGAGAAGGAAGGAAGGAAGGGGGGAATXA AAAGGAAAACCAACCAAAAAAGGGGAAAACCGGGGAAGGGAA AGGGGCCAAGGGAGAAAAAGGGGAAAACCGAGGAGAGCAGAA CAGGGGGGGAAGAGGCCGAAGAAAAAGAACAAAGGAGGGGAG GAGCCAAAAGGAAGGAAGGAAGGGGAGAAAAGGGGAGGAGAG A A A A A A A A A G G G G G GAA $A \operatorname{A} G A A A G A G A G G G A C A G A G G A G A C C G$ A A A G GAA $A \operatorname{AGGGGA} A G A A G G A G G G G A A A A G G G G G A G A A A A G A G$ GA $A$ A A G G G GAGGGGGAAAAGAGGAAGGAGACACGGACAAGAG GAGAAGGAAGGAACCAGCAAAAGAAAGGGCCGGAAGAGGGGA G G G G GCCGGCCGGAAAAGGGAGGAAGGAAAAAAAGGCAAATC C G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A A G C A G A G A T T A A G A G G A G G G G G G G C$
 A A A A A A A GAGGACAGAGGGCCAGGAAGAGGGACAAAAGGGGG GAGGAGGAAAGCAAAAAGGGGGGAAAGAGGGAAGGAACACCG

AACCCAAAGGGGGGGCAAGAACCAGAAGAAGAAAAAGGAGGA GAA A A GAAA A GAGGGGGAGAAAATAAGACAGGAGGGGGAA GA AAAGGGACCCAAGAAAACAAGGGGGCACCAAAGGGACCACCG AACAAAAAGAAAACACCGAGGGGGGAAAAAAAAAAGAAGACG GACAGAAAGTTGAAAGGGAGGGGCCGCGGAGGAAGAGAAAGA
 GAGAAGGCCAAGGGAAAAAAAAAAGGGAGACGGGAGGAAACB $G C C A A A A A G A A C C C A G G A A A C C G A A A G G A A A A A A C C G A A A A$ G G G G G G G A A G G A A G G G G C A G G A A A A G G C C G G C C A C G A G G A G A GAGGGAAGACAGAGGGCCAGAGGGAAGGAAAGAGAAGAGAAA A GAAAGACCAACCAAGGAAGGGGAAGGGGAAAAAAGAAAAAA A A A A A G G A A A G GAAGGGGACCAGGAGGAAAGGACAGGAGGAA $A C C A A G G G A A C A A A G C A G A C C G G A A A A G A A A C G C G G G A A G A G$ GAAAAAAAAGGCCAAGGAAGGGAAGGGCCGGGAAAAGGAGAA $A G G A A G G A A G G G G A A G G G G A G A A G G G G G G A A G G G A A G G A G G G$ G G GAAAAGACCGGGGAGAAGGAAGGAAGAACAAGGAAAAGGG $G G A C C A A A G A A A A G G A A A A A A G G G G G G C C G G A A G G A A G G G G A$ A G G A A G G A A G GCCAAACAC GAGAGGGGGGAAGAGGAGAAAGA $G C A C C G G C A A G G G G G A A A G A G G G A A A A G G A A G G C C G A A G G A G$ GA $A$ A A $A \operatorname{G} A \operatorname{A} A A G G A A G G G G G G G G G G G G G G G G A G A T G A A A C C C$ CAAACGGGGAGCCAAGAAGGAGGAAGAAGGAAAAAAGAAAGA
 G G GAGAGACGAGGACAGAAAAAGAAAGAAAAAAGGGGAAAAG GAAAAAGGGCCAAGAGGGGAGAAAAGGCAAGCCAGACGCGGA
 A G G GAACGGAAGGAGAAGGAAATCACAAAAGGGGGGGGGAGA A A A A GAA $A \operatorname{A} A A A A G A G G G G A A G G G G A A G G G G C A A A A T A C G A G$ GAGGACCAAACAAGGAAAAAGGGCCAAAACCGAGGCCCCGGA GAAG $A \operatorname{AA} A G G G G G A G A G A C G G G G G G G G A A A A A A A A C C A G C C A$ AAAAAGGAGGAAGGGAGAGGGAAAAAAAAGGCCAAGGAAAAG G G G A A G G A A G G A G G G T A G G C C A A G G G G G G G G A GACCC C C A C G AGGAGAAGAGGGGCCAACAAAAGAGTTGGGGAAGGGAAAAAA CAGCCGGAACCGGAAGGGGAAGGAGGGGAGGAAAAAAGGGGG GAGCCAAGGGAAAAGAGAGGGAACCAAAGGGAAAAGGCAAAA A A GAGCCAGAGGAGAACGACCAACCGGGGAAGCGAGGCAAAA GAGGGGGCGAGGAGAGGGAAAGGAGAAGGGGAACCAAGACAA G G GAGAGCAAAAAGGGAAAGGGAGAGGTTACGGGGACCAAGA AA $A \operatorname{GGA} A A A G G G G G G A C A A A A G A A A A A A A A G C G G A G G G A G G A$ AAAGGGGGGAGAGGGGAAAGAAAAAAAGGGGAAGGAAAAAAC C C C G G A A G G G G G G G G G G A A G G G G G G G G A A A G G A G A A A G G A A A A A A A A G G G GAAAAAAGGGGAGCCACAAGGAGACCAAAAAGAC CAGAGAGAAAAAAGGAGAGAAAAGGAAAAGAAGAAAGAAAAG AGACCGAGGAGCCGGGGCCAAAAGGAAAGAAGGCCACAAAGG GCAACAAAAAGAGAGAGGGGAGGGGGGGACCCCAAGGGAAAC A GAA A A G A A GAGGGGGGAGAGAACCGGAACCGAGAGGATGAA A A A G G A G G GAAAA A GAAAAAAAGGAAAAGAAGGAGGGAAGGAA A GAA $A$ A $\operatorname{A} A A A A A A A A A A A A A A G A C C G A G A G C C A A A A A A A G$ GCCAACCGGGGAGAGCCAGGAAAAAAGGGAGAACCAAGACCG A G GAAAAGGAAGGAACCGAGAGGAAGAGGGGGAGGAGAAACA A G G A A G A A G A A G G G A G A A G A A $\mathcal{A} G G G G G G G G G G G A A A A A A G G C$ CAAGGAAGGAAAAAAGGAACCGGGAGGAAGGAAGGAAAAAGC C C C G GAAAAGGAAAAGGGGAAAAAACCGGGGCCAA GAAAAGAG A G G A A G G G G A A G G G G A G C A A C G A A G G G G A GAAA A G G G G G A A G C $C G G G G A A G A C C G G A G C C G A A G A C A A C C A A A G G G G G G G A G C A G$ A G G G G A A A A A A G GAAAAAAAAAGGGGAAGGAAGGAAGGAAAAA $A G G G G A A C C G A G G G G A G A A G G G G G G G G A A A G G G G G A A A A A A G$ GAAGAAAGGGGGAGAAAAGAGGAAAAGGGGGAGAAAAGAGAA A $G \operatorname{G} G A A G G G G G G G G G A G G G G G A A A A A A A A G G C C G G A G A A A A G$ A G G A A A A G G G G G G A A G G G GCCGGGGAAAACCGGAAAGAAAGC

CAAAAGGAAGGAAGGAAAGGGGAAGGAAAAAGGAAAAAAAGG G G G A A A G G A C C A G G G C A A A A G G A T A G GA G G G G A A G G A G G G G G GCCAAGAGGGGAGCCAAAACCGGAAGGAAAGAAGAAGAGACG G GAA A A GAAAAGGAGAACCGGAAGGAAAGAGGGGGAGCAGAA $G C C G A A G G G A A G G A A A A A A A G G A A A G G G G G G A A A A G A A G G G C$ C G GCCAAGGAGAAGGAAGGGAAACCAACCAAAGAGGCAAAAA GAA A G A G G G T T A G A GCC GACAACGGGGCACAGGAGGGGGGGA GAGGAGACCGGGGGAAAGGAACCAAGGAAGGAAGGGGGGCCA A G G A A A A A A G G G G A A G G T T A A A A G GAAAAAATTG GA G G GA GA AAGGAGGCCGGGGGGAGGGGGGAGGGGGACAGAAGGGCAGGA TACAAGGGGCCGAGGACAGGGGAGGGGAAGGAGAAAAAAAAA A A A G G A A A A A G A A G GCCAAGGAAAAGGAGAGTTGAAACAAAG GAAGGGGGGGGGAGAGGAGGGAAAAAAGACCGGAGACGGGGA A GACCAGGGAAAAAAAGAGGAGGGAACGGACAGAACCGAABG G GAAAAAAAAAGGGGGAGGAGAGGAAAAAAAGGGGGGGAAAA GAAGGGGAAGGAAAATTCCGGGGGGAACCCCGGGGGAAAAAA $A G G G G G G G G G G G G G G A A A A G G A A C C A A G G A A G G A A G A A A G B C$ CAA $A \operatorname{GA} A A A G G A A G G G G G G A A G G G G G G G G A A G A A G A G A G G G G$ AAGGAGGAAGACCCCGGGGAAGGGAGGCACAAGCAACGAATA GAGAGGACAGAAAGGCCAGAGACGAGAGAGAGGGGCAAAAAG A G GAGAGGGAAGGAGGGGGAAGGAGGCAGAGAAAAAACCGGA A A A G GAGGGGGGAAAAAGAAGGGAAAAGGAGCCCCCCAAGAA GAGGACAGGGGGGGAAAAGAGAGAGAGCAAGACAGGGGGGGA
 AAAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGAAAGGBG A G GCAAAGGAAGGGGAAAAAAGGGGAAAGGGAGGGGGGAAGG A G GA $\operatorname{A}$ GAGAGGGGGAAAAGAGGAGGAGAGCAGGGAAACGAAA G G GAGACGAGAGAAAAAGGAAGGGAGAAGGAAACAAAGGCAA A G G A A C CACAAGGACGGGGGGGCCCAAAAAGCCAACG
A A A C GAAGGAAAGGAGAGGGCCAGGGAAAGCCAAGGGGGGC CAGGGGGCCGGAAGGGGAGAGGAAGGGGGAGGGAAGGCAGAA GAACAGGGGAAGGGGGGAAAGAGGGGGAAAAGGAAGAAAGAA A GAGGACGAGAAAGGAGGGGGAAGGAAGGAAGGACCCAACCA GAGAGAGCCAAAGGAAAAACAAAAAGGGGAAGGAAAACAAAG GAAGGAAAAAAGGAAAAAGGACAGGAAGGAACCGAGAAAGGG G G A A A A A A A A A G GA $A \operatorname{GAA} A G G G G G A A A A C G G G G G G A A A A G A A$ G G G G G GAGGCAGGAAGGCCGGAAGGAAGAGACAAAGAAAGGG G G GAA A G G GAA $A \operatorname{AGGGAAAAAAGGGGGGAAAAGGGGAAAACCT}$ TAACCAAAAAAGGAAGGCCAAAAGGAAAAGGGGGGCCGGGGA A A A G G G G G GCC G G A A A A G G A A A A C CAA A G G G G G G G G G C C G G A AAAGGAAGGGGAAGGAAAAGGGGCCAAAAAACCAAGGAAGGG $G C \subset A A G G G G G G A A G G G G A A G G G G G G A A A A A A G G G G G G G G G G A$ AGGAAAGGACCAGGGAAGGGGGAAAGGCCAAAACCACGAGAG A A G G G A G A G TA G G G GAAAAAAAAGAAAGGAAAGAACAAAACA C G GAAAGGAAGAGGGAACAGAAAGAGGAGAAAAAAAAACCAG G G G A G A C G G G A A A G G G G A G G A C A G A G A A G G G A G G G A G G G A A $G$ GAACCGGAAGGGGAAGGGGAGAGGGAGGAGGAGGGGGAACAA GAAAAGAAGAGGAGGCCGGGGAGGAGAGGAAAAAAGGGGGGG
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 A G GAAAACCAAAAGGCCGGCCGGAAGGAACCAAGGAAGGGGA A A A A A A A A A G G A A C C G G G G G G G G G G C C A A C C G G A A G G G G A A G GCCGGAAGGAAAGGACCGAACAAAGAAAAAGAGGGAAAAGGT T G GAACCAAGGAAAAAAAGAAACGAGGGAGGGAAACCAAGGG
 A A A A A A A A A GACAGAGGCCAAGAGGGAGAAAACGGAAGAAAA A A A G G G G G GAAAATTGGGGCCCCGGGGCCAAAACCGAAAAAA AA $A$ A A GAGAAAAAAACCGAAAGAGGAGAGGGGGCCGGGGTTA

A G GAAGGAACCGGCAAGAGGGAAAAGGACGGGAAGAGAGAGC A A A A A G GAA A GAACCAAGGCCAAAGAAGGGGAAGAGGGCGAA GAGGAAGGAAAGAGGCGTAGGAAAAGGAAAGAAAAGAAAGGG GAAAAGGCCGGGGAAAAGGCCAGAGAAGGAGAACAGAGAGGA AAAAACCAAGGAAGGGGAAAACCGGAAGGAACCCCGGGAAAG GAAAAAAAAAAAAAAAAAAAAGGAAGGGGGGGGGGAAAAGGG GAAACAGGAAGAATAAAGGGAAACCAAGGAGGAGGGAGAAAA ACAAGAAGGAAAGGGAAGGAAACAGAAAAGCAAGGAGGAAAA A G G G G A A A A G G C A G G G G G A A G G A G G A G A A G G G G G C G A A G A A $G$ A A A GAGGAAAGGACCGGGGGGGGAAAAGAAGGAGGAAAAAGA A A G G GCAGGGGAAAAGGGGAACAAGAGAGAACCGAACAGAGA CA GAACCAACCAGGGAAAAGGGGGGACGAAGGGGAGAGAAGA GACAC GACAGGGAGAACGGGAAAGAAGGGGGGGCCAAGAGAA GAAGGCAGAAGAAAAAGGGACACAAGAGGGGAGGGGACAAAC A GAGAAAGAAAGGAAGACAAAAAAGCCAGAGAGAGAAGAAAC ACAAAAGAGGGGAACGGCCGAGGAAGGAGGGGGGAGCACACA G GACCGGGGGGAAAAGGGGCCAACCGGCCAAGGAAGAAAGGG GAAGGGGAAGGAAGGAAAAAACCCCGGAAAAAAGGGGAAAAA A A A A A A A A A G G GGGGAAAAAACCCCGGGGGGCCAAAAGAAAG GCCAAAAGGAAAAGGAACCAAGGCCAAGGAAGGGGGAAAAAG GAAGGAAGGAAGGGGGGGGGGAAAAGGGGCCAAGGGGGGGGG GAAAAAAGGAAAAAAAAGGGGAAGGAAGGTTAAAAAAGGCCA AAAAAAAGGAACCAACCTTAAGGGGGGAAAAAAGGGGAACCG G G G G G C C T T G G A A A A A A A A C C C C A A G G G G G GAAAAAA A G G G T TAACCAACCAAAAAAAAAAGGAAGGGGAAAAGGGGAACAAAAG GCC C G A A G G G G A A A A G GAA $A \operatorname{A} A A A G G G G G G G A A A A G G C C A A A$ A A A G G G GAA A G G G G G C C G GAACCGGGGGGAACCGGAAGAAAA A G G A A A A A A A A A A A A A A A A A A A A G GAA G GAACCCCCCGGGGA A A A A A A A A A G GAACCAACCAAAACCGGGGAAGGTTAAGGGAA ATTAAGGGGAAAAGGGGGGAACCCCGGGGGGAAGGAAAAAAG G G G G GCCAAAAGGAAAAAACCGGGGGGCXCCAAGGAACCGGG G G GAACCGGGGGGAAAAGGGGGGAAAAAAGGGGGGAGAAGGG GAAAAAAAACCAACCGGGGAAAAGGAATTGGGGCCAAGGGGC CAAAAGGCCAAAAAAAAGGAAAAAAAAAACCGGAAAAGGGGA A G G A A G G G G C C G G G GAA $A \operatorname{GGAAAAAAAAAAAAAGGGGGAAAGGG}$ $G C C G G A A A A A A A A G G G G A A G G A A A A A A A A A A G G A A G G A A G G G$ GAAAAAAGGGGAAGGGGCCAAAAAAAAAAGGGGAAGAAAAAA A A A A A A A G G G GAAAACCGGGGGGCCGGAAGGAAAAAACAAAG G G G G G G G A A A A C C G G G G C C C C A A C C G G G G G G G G G G G G A A G G A A A A G G A A G G G G C C A A G G T T A A A A $\mathcal{A} G G G A A G G G G G B A A G G G A A$ A A A G G A A G G G G A A C CAA A G C C G G G G G G A A G G G G G G G G G G C C G G G G A A A A A A G G A A A A A A A A A A A A G GAA G G G GAAAAAA A GAA A $C G G T T C C G G G G C C G G G G C C A A A A G G G G C C A A G G C C G G A A G A A$ ACCAAGGAACCAAAAGGAAGGGGAAGGTTCCGGGGGAAAAAA A A A A A A A G GAAAAAAGGCCAAGGGGAACCAACCGGGGGAAAA A $G G G G A A C C A A C C G G G G G G G G G G G G A A G G A A C C C C A A G A A A A$ A G G A A A A $\mathcal{A} G G G G G A A G G G G A A G G G G G G G G C C C C G G G G G A A A G$ GAACCGGGGGGAAGGCCAAAAGGGGAACCGGAACCAAGGGGG G G GCCAAGGGGAAAAAGCAACCAGGGAGGAGCGGAGAGAAGA A GAGGGGGGGCGGAAAAAGAAGAAAACAGGCAGGAGGGGGGA A G G A A A A A A G G A A A A G A A GAGGAAAAAAAGGGGGGCAAA GAC $A G A A A A A A G G A A A G A G A G A G G A A G G C A G A G G G G A G G G G G G G G$ GAGGAAACAAAGGGGCCCAGGCCAACAGGGAAGGGAGACACA G GAAAGGGGAACCGGAAGGCCAAAGGGACGGGGAAAAGAAAG G G GA G A G G GAAAAGGAAAACCAAGGAAACAGAAAGCCCCGBA A A C A A A G A A A A G GCCAACC GAGGGGAAGGACGA GAAAGAGAG $G C C G A A G A G A G A A A A A A A G A G G G G G G A G A C A A G C A G A A A G G A$
 ACACCCCTTAACCCCAAAAAAAAAACCAAGGAAGGGGCCAAA

G G GCAGGGAAAGGAAGGCCAAGGGGGGAAGGACGAAGAAAAC CAAGGAAGGAGCCAACAGAGAAGAAAAGAGGGAGATTAAAAG G G G A A A A A A A GAG GAGGGAAAAGGAAAAAGGAGACAAGAGGC $A C C A G G G A A A A G G G A A A G G G G A A A A A A A A G A A A A G G A A A G G A$ GAGACGGGGGGAAGGGGAAGGGGAAAAACAGCACCGACAAAG G G G G GCAA C G A A G G A A A A A G G A A G G C C G G G G G G A C C A A G G A G GAAGGAGCAAGGCAGGAAGGGGGGACAGAAAGGAAGAAACAA AAAAGACGGAGGGAAGGAAGGGGGGAAGGTTAGAAAAAAAAG A G G G A G A A A A A A A C CAGAGGGAACCGAGGGGGGCCAGAAAAG GGGACGGAGGAAAGACACAGGAGAGGAAGTAAAGAAGAAAAG
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G G G G G A C C G A G G G G A A G G G G C C A A G GAA A GAA T T C C G G G G A GAAAAGGGGAAGAGGGGAAAAAGACAGGGAAGGAAACBACAA A G GAGAAAAGGGGAAGATTCCGGAAAAGGAATTGAGAGAAAC $C \subset C G G A A G A A G A A G A A G A G G G C A G G A G G A A G C A A A A A A A G G G$ GCCAAGGGGCCGAGACAAAAAGGGGGAAGCCGGAAAGCCGGG C G G G G A A G GCAAAAAACAAAAAAAAAAGAGGAACC GACCGGC C CAC CACACGGCAGGCCAAGGGGAGGGGAGACCCCBACAGGG G G GCCAAAACAGGGGGAAGAGGCAAGGAGTTGGAGAGCAAAA GAGGGGGGAGGCCGGAAGAGGAGAAAGAAAGGGAGGGCCGGC C G G A A G A A A G G G G G G A G A G G A T T G G A A A A G G A A G G A G G G C C A G G G G A G G G C A G A G A G G GAGGGAGCCCCGAAGGAAGAAA GACA $G C \subset A G G G A C G G A A C A G G G A A A A A G G G G G G A C G A A A A A A A G G G$ GACAGAGGGAAAGGGGGAAAAGGGGAGGAGCGGGGCAAAAAA GACAGAAAAGGCAAAGGAAAAAAGGCCGGAAGGAAAAGAAGA A G GAA A G A G G G A C G G A A G G A A A A G G C C C C G G G GAAAC G G G G C A G GCAAACCGAGGGAGGGGCAGGACAGAAGGGAGGGGAAAAA GAGAAACGGAGACAGAAGGGGAAGGACGGGGAAAACCAAGAC C C C A A A A A A G G A A A A A GCCAA G G G GAAAACCGGAAAA G G G G G G G GCCGGAAAAAAGGAAGGGGCCGGAAGGGGAAAAGAAAAAG GAAAGAGCCGGAAAAAAAAGAGGAGGGGAGGAACCGGGGGAA A A A A A G G G GAAAAGGAAAAGGGGCCGGGGAAGGGGGGAGAAA GAAAAGGGGGGGGAAAAAAAAGGCCGGAAAAGGGGGGGAAAG
 G G G A A C C A A A A G G G G C C G G G G A A G G A A G G G GAAAAAA G G G G G A A G GAA A G G G GAAAGAGGGGCAGGAAAAGGGGGGAGGAAGGGG GAAGGGGAAGAGGGAAGGAAACCGACCGAAACCAGGGAAGAA A A A G G A A A A A A GAA A A G A A A A G GAT GAA GAGGGGAAA G GA G A C C C G G G G G G A A A G G G A G G G A A A G A G G G G G A G G G A G A G G G G G C AAAGGCCAAGGGAAACGAGGAACGGACAAAAAGAGGGAGGAC CAAAGGAGGCCAAAAAAGGGAAAAGAAAGCAAAAGAGGGAGT

T G G G G G GAA $A \operatorname{G} A A A T A A C C A G G G A A A C G A A A G G G G A A G A G G A$ GCAGGGGGGAAGGGGAAAGCCCCAAGGAAAACCAAAAGAAAG GACGGAAGACCCAGCAGAACAGGCATTAAGGCCAAGGCAAAG G G GAAAAGGAGAGGGGAGGGGACGGAAAGGGAAAAAAGAAAG GACCAGGGACCGGGAGGGAAGAGGGAGAAAACCGGGAAAGGG GA $A$ A A $A G G G G G G A A G A A G G A A A A G G A A C X A A A A G G G G A A G B A$ A A A G G A A G G G G A A A A G G G G A A A A G G G G G G A A A A $\mathcal{A} A G G G A G G A$ GAGTTAAGGAAAAGGAAGGAAGGAAGGAAGGGGAAAAAGGGA ACAAGAAAACGACAGAAAAAAGAAGCCACAGGAGAAAAAAAG GAAAAGAAAGAGGAAGGAGGAGAAAAGAGGGAAAAGGGGCCG G G G G GCAAAAACGGGAAAAGGGGGGAAGGGGCAGGCAGAAAA ATATTAGAACCAACCAGAGCCGGAGAAGGCCGGGGAACAAAA A G G A G A G G GCCGGAACCAACCAAAAGGGGGGAAAAAACCCCA A G GCAACGACCGAGGAAAAAAAAAAAAGGGGGGGGGATAAAG GCGAAGGGGGAGAAGGGAAAACCGGGGACAGAGCAAAAAGGG GAA A GAAAACCAAAAGGAGGGAGGGAAGGAAAGGGAACCCCA
 G G G G A A G A A G GCGAAGACCCCAAGGGGAAGGAAAGAGAGAAA $G G A C C G A A G G G A A G G A G G G G G A G G G A A A A G G A A A A G G G G G G A$ AGGGAAGAACCCCGATACAGGCAGAAAGAAACAATAGGAAAA AGGGGAAGGACAAGAGGAAAGCCGGCCGGAGACAAAACACAG A A A GAGGAAAAGGAAGGAGGAGGAGGGAATTGGACCAAAAAA GACGAGAAAAGGGATGGACAGGAAAGAAAAAGGAATTCAAAG GAAGGAAGGAAGGAGGCAAGGCCCCAAACGGGGGGAAAAGGG ACAAAAAAAGGGGAAAAAACCGGACAGAAGAAAAAGGAAAAA ATTAAAAAGCAAGCCAAAAGAGGCCGAGGAAAGGGGAGCACA GTTAAAGAAAAAGCCGGGGGGCGAGAAGGGGACAACAAAGAA AAAGAAGAGAAGGAAGAAAAAAAGGAAAAAAGGCCGBAAGGC A GACCAGAAAGAAAGGGGGGGCCAAAGTAAAGGACAAGAGAG $G G A G A A A A C G G A A A A A A A A A G A G A G G G A A G G C C A A G G C C C C A$ A G G GAA $A$ A C C C A A A GA GAAAAAAAAGAGGAAGGAAAGAGAAA G GAAAGAGGGAAAGGAAAAAGATAGGGGAAAGGAGAAGGGGG
 A G G GAAAACGGCCGAAACCCCCCGGCCAAGGCCGGGAAAGGA
 AAAGGGGAAAACCAAAAAAGGAAGAAGCAGGAGGGGGAGGAG A A G G GAAAAAGGGGGCCAAGGAGGGGAAGGGGAAAAGAAGGG GAA A GAAAACGAGAGGGGGGGAAGGGGCAGGGAGGAAAAAAG GAGGAGGCCGGAGGGAGGGAGCCAGGGGGCAAAAACCTXAAG
 G G G GAGAGGAAAAGGAGATGAGGACAAGGAAAGAGAGGGCCB GAAGGGGAAGGAGGGAAAAAGGAGGAGAGAACCGGGGAAAAA AGGCAAAGAGAAAGGGGAAAAAAGGAAGGGAAGAAAAGGCCA A A A A G GA G GAA A A G G G A A A A G G G A A G G GAC GACA G G GA G G G A $A G A G G A G G G C C A A G A A G G G G A G A G A G G G G A A A T C C G G G G G G G$ G G G A A A A C C G G G G G G A A A G G G G G C A A G G A G G G A G G A A G G A G A A G GCCAAGGAAGGAAGGGGAAGGACGGAAGAGGAAAAGAAAC C G G G G G GAAAGAGAAGAGAAAGGGGAAAAAAAACACAAAAAG G G G G A G G G G A G A G G G G G A A A G G G A A G A A G G G G A G G A G C A G G G GAAAAGGAAAGGAAGCCGAAGAAGGTAAGCCGGCCAAGGGGA A A A A G A A G G G G A A A GAA $A \operatorname{AGGGACGGGAGCAAAAGGAGGAGAA}$ A G GAAAAAAGGACAAAAGGAAGGGAGAGGGAAAAACCTXGAG GAAAAGACCAGAAAGAAAAGGACACGGAAGGAAGGAAGCGGA CAAAAGGGAGAAGAGGGGGGGAAAGAGCAGGGAGAAAGGGGA AAAGGAAGACAGGAAGGGGGGAGGAAGAACCCCGCCCACAAG AACGAAACGAAAAAGAGCCAGAGACAAGGAAGGABAGAGGGG
 ACCAGGGAAGGCCAAAGGAACGGGGGAGGAAACAAAAAAAAA GAGATAACCAAGAAGAAGGAAGGGGGACAGGAAAGAAGGGGC

CAAAAAATTCAGGAGGGGGAAGGAAAAAAGGAAGGGGGGGGG G G G A A A A G G G G A A G G A A A G C C G A GAC CAA A A C C A A A G C G G G G A G G G G A A G G G G G G A G G G A A A A A $\mathcal{A} G A G G G G G A C C A G G A A A G G G$ AT TCCGAAAGAGGGGGGGGGGAAGGGAGAAGGGAGGAAGAAA CAACCGGGGCAAGAGAAAAGAGGAGGGAGAAAAAAAGCCGGA A G G G G A A G A A G A A G G GACACCAAGGGGGGGGAAA GACAGCCG G G G G G A G G A C A A A G G G G A G G G G G C C A G A A G G A A A A G GAA A A A GAACCAGAGAGGGAAAGCAGAAAAAGGGAGAGGAAAAAAAAA A A G G A A A C A GAGGGACCGGGGCCGGGGAGCCAACGGGACAAA G G GAAGGAAAGAAGAAGGGAGGGAACCCCGGAAAAAAAAAAG GAAGGCCAAGGGGAAAGGGGAAAAGACAAGGAAAAGGAGAAA GAAA A A G G GAA $A \operatorname{AGGA} G A G A A A G G A A G G A G C C G G A G G A C A G A G$ A GAGGAAGGCAAGGAAAACGGCCAAGGAAAGCCCAAAAAAAG
 A A GAAAACCGGGGGGAAAAAGAAGGGGAAGAGGCCAAAGGGA A GAAAGGAGGAAACAAGGGAAAAGAAAAGATAGAAAGAAAA G GAA A G G G A G G G G G A GAAA $A \operatorname{AAAA} A A G G G G G G G G A A G A A A A G A A$ A G G G G G G G A G G A A G A A C A A C C G GAC G GAAAA A A GAGGGCCC G GCAGGGAGGGGAAAAAGGGGAAAAAGGCCAAGGAACACAGGA A A G A $\operatorname{A} A A G G G G G C G G G G C C G G C C A A G G A G A G A G A G G A A A A A A$ GCCGGAAAAACGGGGGGGAGAAGAACCAGAAAGAGAGAAAGG GAGAAGAAAAAGGAAGAAATTGGAAAAGGGAGAGAAAAAGGG GAAAAAAGGGGAGAACAAAAAGGAAGAAGAGGGAGGGGAGGA A A A G A G G A A A A C A A G A A A A G G G A A A GAA $A \operatorname{GGGGGGGAAAAGAA}$ A G GCC CAA A $C$ A G GAGAAGAGGGGGGGCAAGCAGACCAAACGAA CAAACGGAAAGAACCGGAAAGAAGGGGGGAAACAAACCAAGA GAA A GACGGGGAAGGAAGGGGAAGGAGGGAAGAAAGGAAGAA A G G G GCCAAAAAAAAGGAAAACCGGCCAAGGAAGGAGAAACB GAAACAGACGAAGAGAGGGGGAGAGACCCCCCCAGGG
A GAAGGGAGGCCAAGGGGAAGGAAAGTAGGAGGGCAAGAGG GAAAGAGGGGAACGAAAGGAAAGGGGGGGCCAGAGCCAAAGAA A A A A A A A G GAGAGAAAAGGAGAGAACCGGAAGAGAAAAGAAA A A A A A G G G GAAAAAGGGCCAAGGAAGAGGAGAAGGGGAAAAG G GAGAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCGAAAG GAGGGGGAGCACCGAACGGGGTAAGAAGGCCAAAAAACCCCG G G G G G G G A A A A G G G A A A G G A G G A A G G G G G A A A A A A G G A G A A G
 GAAGACCGGGGAAGGAAAAGGGGGGGGAGAGAAGAAAGAAAC C G G A G A A G G G A A C G A GAAGCCCACCAGAAAAAGCAA GCC G GA $A G G A G A G A A G G G G G G G G A A G G G A G G A C G G A G G A G A G G E C A B A$ AA $A$ A $\operatorname{G} G A G G A A G G G A A G A A A C G G C C G G A A A A A A A A G G A G G A C$ C G G A A A G A A T T G GACGGGGGGGGGAAAGGAACCAAAAAAGGG G G G G G GAAAGGAGAAGGGCAGCCAAGGGAAAAAGGCCAGACA
 GAAAAAAGGAAAAAGAGAGCAGAGGCCGAGAGAGAGAGAGAG A G GCCAAAGGGAAAAAAGAGGGAGAGGGACAGGAGGGAACAA A G GCCGGGGGAGGACAGAGAAAAGAGAGGCCGAAAAACAA GA ACACAAGGGAAGAAAAAAGAAGGTTGGAGACCCAGGGAAGGA A A A A A GAGGGGGAAGAAGGGGAAAAAAGAAAGGCCGGAAGAA GAAGGGAAAGGAAAAAAGGCCAAGGAGGGGGAAGAAAGGGGG $A C C C C C C C A G G A C A A A A A G G A A A A A A G G G G G G A T A G C C G A C$ C GGCCAAAAGGGGGGAAAGAGGGAGAAAGAAAAGGAAAAAGG A G G A G A G A A A A C A G G A G G G G G A A A A A A A A $\mathcal{A} G G G G G G G G G T T A$ ACCAAAAAAAGCCGAAGAAGGGGAAAAGGAGAGCCGGCCAAA GAAGGGGGGAGAGAGAGGAAAAAAGAAAACAAAAAAAAAGAA AAAGGAAAAGGGGAAGGAAGGCCGGCCAAGGAAAAGGGAAAA A G G A C G A A G G G G G G A A A A A A A A G G C C G G G G G A G G G G A A C C G G G G A C G A A A C C G G T T G GAA G G G G A A G CAA G G G G C C C C A A C C G G G GAGCGAGGAGAGGAAAGAGAAGCAAAAGAAATXCCGGGGGGA
$A C C G G G G A A A G A A G G C A C A G A G G A C A G G G C A A A G A G G G A A A C$ ACCAAAAAAACAGGGGGAAAGCAAAAAAAAAACGGAGGAGAA A A A G G G G G G G G A A G A G G A G G A A A A A A A C C G G G GA G A G C A G A G A GAGAGAAGGAAAGGGGAACCAAGGCAAAAAAACAGGGAAAC
 A G G A A G A A GACCAAAAGGGATAGACAAAGAAAACCCCAGAAA A A GCCAGGACAAAGGCCCCAGGGCACCAGCCCCGGGGAAGGG GAAGGGGGGGGGGGGGGGGGGGGTTGGGGGGAAGGCCGAAGA A G G A A C C A A A A G G G GAA $A \operatorname{G} G A A A A A G G G G G A A G G A A G G G A G G C$ A G G G G A A A A G G A GAAGGAGAAAAGAAGGGGAGGCAGAGGGGG ACCGGCCGGAAAAAACCCCGGGGGGAAGCAGAGGGAACAAGA G G G G G A G G G G G A A A A A A A A $\mathcal{A} G G G A G A G A A A G A G G A G A A A G A A$ A A A A GCCAGAAGGGGAAGGAAGGGGGGAACCGGAAAGAGGAG GAGAACCCGGGAATTGGAGGAAGAAGGGGGGAAAAGAAAGAA $A G G G G C C G G A A A A G G A A G G G G A A G G A A G A G G G G G G G G G A G G A$ A G G G GAAAGGAAAGGAAAGAAGGGCAAAGGAGAGGGAAAACA A A GCACCGGAGGAAGCCAGCACCAAGAAGAAAAGACCAA GAA G G A A G A A G G G G A A G G C C G G A C G G C C A A G G G GA G G G C C G G G G A
 GAGGGAGAAAACCAAAGGAGGAGAACAGGCAAGGACCAGAGG G G G G GAAGGCCGGGGCCGGAACCAAAAAGCCGAGGGGAGGGA GAAGGAACCGGAACCAGAGTAAAAGACGGGGGAGGAAGAACA AAAGGCCGGGGAACCCAGAAGAAGAAGAAAGAAAAGAAGGGG G GAAACAGAGAGGGAAGGAAGCACAGAAAGGACGAAGAAAAA G G GAC GAACAAGGAACAGAAAAAGAGAAAAGAACCGGGAAGA A GAGGAGGAAGAGCCGGGGAAGGGGGACCCAGGGACCGAAAG GAATTGGGCGGGGGGAAGAAAGGAAGGGGAAGGACAAAAAAAA A A A G G G G A A GAGAAGAACCGGGGACTAGGGGAAAAAATACAC CAAGGAGGGAGGAGGAAGGGGCAAGACGAAGAGGAAGAAAAA AAACAAACCGAGAGAAAGGAACAGGGGAGGGAAAGAGGAACA A G G A G G G A C G G G G A A G G G A A C A GAGGGGGACAAAACCA G GAG G G GAAAAGACGGGGGAAAGAGAACGCCAACCAAAGAACGGGA GAGCCAACAGAAAAGAAGAGGAAGGAAGGCCTTCAGAAAGAA A A G G G G G A G G A A A A A G A A G A A A GA $A$ A A A C C A G G G G G A G G G G G G A G G G GCACCAAGGGGGGAGAGGGAAAAGAGAAGGAGGAAAAA A A G G A A A A A A GACCCAAAGGAACAAAAAAAGGGGGAAAAGAA C G A G G G GAAAAAAGGGGGGAGAGACGAACGGAAAGACAGAAA AGGAGACCCAAAGAGAAAAGGAAGGAGGGAAGGCCAAAGAAG G G G C C A G A A G G GAC CA $A \operatorname{AGGGGCCGAGGGGCAAGAGGAGAAAC}$
 A GAGGGGAACCAAGGGGGGAAAAGGAAGGAAGGAAAAAAAAA A G G A A A A A A G G A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G G G G G A B A A G$ GAACCGGAAAAAAGGGGGGCCGGGGAAGGAAGGGGAAGAAAA AAAGGAAAAAAGGAAAAGGAAGGCCGGAAAAAAGBAAAAAAG G G G G G G G A A G G A A A A G G A A G G A A G GAA A G G G A A A A A A A A G G G G G G A A A A A A G G G G G G C C A A G G A A A A A A G G G GAA A A A A A GA G G A G G G GAA $A$ A $A$ G $A G \operatorname{GAAAACCAGAAGGACAAAGAGGAGAAGAAG}$ AAACAGGAACCGGAAAACAAAAAGAGGGGGGAGAAAAAAGAA GAGCCGGAGAAGAAGAGAAAGGAAGGAAAGGGGGAGGAAGAA $G C A A A G A A G A A A A G G G G C A C A A G G G A C G G A A A G A A G A G A A G A$ G G G G A A G A A A G GAA $A \operatorname{GA} A G G C A G G A G G A A G A A A A G A G A G A A A G$ GAACAGGGAGGAGGAGGAAAAGGCCGGAAGGAAAAAAGGCCA A G G G G G G C C A A A A G G A A A A A A C C G G G A G G A A A G G G A G G A A A C CAAAGAACAGGCAAGAAAGAAGGAAAGAAGAAAAGAAAAGGG G G G A G G A A G A G A G G A G G G A A C G G C C A A G G A A G G G G G G G G C C G GAAAAAGAAACAAGGGAAGGGAGGGAAGAAGGAGAAAGAAAC CAAGGGGGGACGGAAACGGGGCCAACCGAGGGGGGAAAGGGG
 A G GAAAAAAGAATGAGGAAGGAAGAGGAGGAGGGAGAACGGG

GACAAGGGAGGGACCGGAGCCAAGGGAGGAAGGGGAGGAAAA A G G G G A A A GAC GAACAGAGCCGGAAAAAGCCAGGAAAAGGAG G G G G G G G T T G G A A C C G G G G G G C C G A A A C C A GAA A C A G G G G G A A G GAGAAGAGGAAGGAGCCGGGGAGCCGAAGCAGGAGACGAA G GAAGGACCAAGGGGGAGGAACCGAAAAACCAAGAGGCAGAG A G G G A A A G GAC A G $\operatorname{A} A A A G G A G A G G A G G A G G G G G G A A A A A A G G A$ G G A G G G G G G A G G A G G A A G A G G G G G G A A G G C C A G G A C A C C G G G A A A A A A G A A A A A GAAA $A$ A A $\operatorname{A} A A A A G G A A A A G G G G G G A G G A A G A$
 CAAAGCCGGAGGGGGCCAAGGCCCCGGGGGGAAGGGGGGGGA A A G G A A CAGCC GA GAGGAGGAAGGGGGAAGGGACCCCCAGAC C G G G G G G G G G G A G G G G G G G G A G G A G G A C C C A A A A A C A A G G G C A ACG G A A G GAGGGGGCCAAAGCAGGGGAAAAAAAAAGGGGGA C GAAA A A CAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A G A A G A C A A A A G A G A G G A G A G A G$ AAAGAGGGGAAACGGAAGGGGGGGGAAGGGGCCGGCAAAGAA GAAGAAGCAAAGGAGGGAAAGAAAGAAACAGAAGGGGAGGGC
 $A C C G G A G G G G G A G A A G G G G G G A G G A A G G G G G G G G G C A A C A A A$ GAAAAAAGGAGAAGGGGCCGGGGAAAAAAGGGGAGGGGAABG GAAGAAGGGGGAAGGGGGGAAGGGGAAGAGGAAAAAACAGAC $C \subset C A A A A G G A A C C G G A A A A G G A C A G A A G G A A G G G A A G G A A C A$ AAAGAAAGGAAGGCCAAAAAAGGAAAAAAAGGGCCAACAAAA CAAGGAAAAGGGGAGAAAAGAAGAAGGGGGGGGAGCATAGAC C GACACAACGAAGGGAGAGAAGGAACCGGGGGGAGCAGAGGG A GAGGGAGGAAAAAAGGGGAAAAGGGAAGAGCCGGGGCCGGG A G G G G A G A G A A G GC C G G G G G G G G G G A A A A A A A A GA G G CAAAA A GAA $\operatorname{A} A A A A C A A A A A A A A A A A G G A A A A G G G G A A G G A A A G A A G$ GAAAAGGCAAGAAAGGACCGGAAAAGAGACAGGCCGGGAABA T G G C A $\mathcal{A} G G G G G G A G A A G A A A G G G G A G G G G G G A A A A A G$
$C C G G A G G A A G A A C C C C A G G G G G G G A A A A A A G G G A C A A A G G G$ GAACCCCAAAGAACCAGGACAGGAGAAAGAAAGGGAGAAAGG
 TCAGGGGAAGACAAAGCAAAGGACAGAAGGACCGGAAAAAAG GAACAAAGGGGGGGAAAAAAAGAAAAGCCAAAGACGAGAACC
 A A A A A G G A A A A GAGGGAGAGGGAAGAAAGAAGGGAGGAAAA G A ATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC $C G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G$ G G G G G G G G A A G A C G A G G G G G G A A A GAGAGCCGGGGAAA GAAA AAAGGAGGGAAAAAAAGCCAGGAGAAAAGCCGGAGGGAAGAA A A A A G G G G G G G G G G G G G A A A C GACCGGAACAGGAC G GA G CA T A A G A G C A A G G G G G G A G G G A C C G A A A G G G G G G A G A A G G A A A A C CAAGGAAAGGAAAGGGAAAGGAAGATAAAGAAACCCGAAAGG $A C C A G A C G C A A A G A A A G A G A C A G G A A G G G A A G G A G G A A A A A G$ GCCGGAACCGGGGGACAAAAAGGGGGGGGAGACGGGGGAAGC CACGGAGGGAAAAGGAAGGCGAAAAGACAAGAGAAAAAGCAA
 GAAGGGGAAGGGGGGAAGGCCGGCCAAAAAGAAGAGGCAAAC A G GCCGGGGGGGAAAAAAGGGGGGACCGGAACCAGGAAGGGC CAAAAACAGCAACCCAAAAGGAACAAGGGGGACAAGGAAACA A GAAAGGCCAGGCAACCAGAAGGGGAGAAGGGAAACAAAAAG A A A A A CAA AGGCCAAAGCCAAGGAAAGGAAGGGGGGAGAGGG A A C A A A A G A A A A A A A A A A G A A G G A A G G G G A A A A A A G G G G G A G AAGCAGGGAAAGGGGAAGGGGAAAAGGAAAAGGAGGAAAAAG
 AAACCGGGACCCCGGGGAGAAAAAAGGGGGAGGGGGAGAAGG G G G A A C C A A A A A A G G G GCC G GAACCGGAACCAAGGAAAAG GA A G G A A G G G G A G A G A A G G A G A A A A G GCCGGGGCCCACAAAAAA AAAGGGGCACCAAAAAACAGGAAAGACAGAAGGGGGGGACCA

A A G GAA A GAAAAGAGAGAAAAGGCCAGAACCAAGGAAAAAAA
 A A A G G GA $\operatorname{A} G C C G G G G C C A A G G T T G G A A G G G G G G G G C C G G G G G$ G G GAACAAGAGACGAGAAAGGGGCCAGAACCAAAAGAAAGGA AAAGGAAAAAAGGGGGAGACAAAGGGGAGGGGGGGGAGGGGT A A A A A A G G A GAGCGGGGGGAAAAGAGGGAGAAGA GAAAGAGG G GAGGCCAGAGCCGGAGAATAAAAAGGGAGGAGGGAGAAAAA A A A A A A A A A A A A A A A G G G G GACCGGGGAAGGGAAGGGGGGGG GAAGGAGGAAGCCCAAAGGAAAAGGAAAGGGAAGGAAAGABA A GAAAGGGAGGAGAATACCGGATGGACCCAGGGGAAGGAAAG AAC GAAAAAAGGAGAAGGCAAAAAGCAAGGGGGGAAACAA GA G G G A A A A G A G G A G A G G G A A G G A A A A G GAGAGAGGGAAA GA C G GAAAACCGGGGAAAAAGAGCAGAAGAAAAGGAACCAACAACC C G GAG G GAA A GAAGACCCAAGGAAAGGGAAAGGATAAGA GCT TAAGGAAGGAAAACCACAGAGAAGGAAGGTTAAAAAACCGGA AA GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAAAGGGBA
 GCCGGAAGGAAGGAAAAGGGGAAAAGGAAAAGGCCAAAAAAA AAAAGAGACAAGACCGACCGGGGAACGAGAAACGGGGGGGGA
 GACAAGCGGAGAGACTTGGAGAACCCCCCGAAAGGGAGAAAG GAAAGAGCAGAAAGGAAGGAACCGGAAGGGGATGGAAGGGGA G G GAACAGGAAAAGGGGGGCCACGAGGCCGGGGGGAAAAGAA GAGGGAAAAAAGGCAGGGGGGTAAAAAAAGGGCGCGAACGAG A GAACAAGGAAGGGAACGAGGAGGGGGCCAGACCCGGAAAAC C GACACCAAAGGCAAGCAAGGAGAAAAGAGGAAGGAGAGAGC CAACCGGAGGACAAAAAAGGGAGCCGGAAGGAAGAGACAAGC $A C C C C G G A A A A G A A C G G C G A A G G C A A G C C C A G G A A G G A A G G C$ $A C C G A A G G G G A A G G A G G C A G G G G A A A A A G A A A A A G G G G G C A A$ AAAGGAAAAGGCCGGAAAAGGAGGGGGGGAAAGCAGGAGGAA A G G A G G G A A A A A A $\mathcal{A} G A A G G G A G A G G A A A A G G G G G G G G A A G A A$ $A C C G G C A A A C A A G A G G A A A G G G G G G G G A A A G A A A A G G G G A G A$
 AAAGAAGGGAAGGATAAAAAAGGAAAAGGGGACAAAGGAAAC A A A G G GA G A A A A A GACAGAAGAAGGGGAGGGAGAAAAAGGAA A GAGAGGAAACAAAGCCAGAAGGGAGAAAGGGGCCGGGGGGA CAAGGAAGGCAAGAAAGCAAACAGAAAAAAACCAAGGAGGGG G G GAA $A \operatorname{GGGA} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G A C A A C C G G A G A A G G G G G G C A G A G G A$ GCCGGGGAAGAGGGAAAGACCGGAGAAAGGGCAAGCCBAABC AAACCGGGACCAAGGAAGAACCAGCAGAAAAGGAAAAGAACA $C G A A G A A A A A A A A G G G G G G G A A G A A C C G A A A A G A C A G A A G G G$ GAAGGACAAGGAGGGGAAGAAGGAGAAAGAAGGGAAGGAAAA A G GAA A GAGAAGGAGAGAAAAGGGGCCGGGAGAGGGAAAAGG G GACCGGGGGGAAGAACAAGGAAGGCAAAGGGGGGCCGGGAA G GAGGGGGAAACCAAAAGGAAAAGGGGCCGGAAAAGAAACCG G G G G G G G G G G G G G A A G G A A G G A A A A G G G G A A A A A A G GAAC C C C G G G G G G G G G G A G C A G G A G G G G G G G A G A G C A C C G G A A C C A G G GCCGGCCAAAAAAAACCGGGGGGAAAAGGCCGAAGAGGGGAA AAAAGAAACAGAGAGCAGACCAGGAGGCCAGAAAAGAAAAAA A A A C A A A G GA $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{G} G \subset A G G A A G G G G A A A G A A G G G G A A G G G$ A A GAA A G G GCCAA $\mathcal{A} A A C A G G G G G G A G A A A C C A A A B A G G G G G G$ A G G G G A A G A C G A A C C G GA G G G A G G GA GA A A G G G C C G G G G G G A A G G G A C A G A G A A A G G G G A G A G G G A A G A A GACA $A$ A A A A A A G G C A $C A G C C G G A G G G G G A C G G G G G A G G A G A G G G G A G G G A G G G G A G G$ G G G G G G GAAAACAAGCCGAGGAAGGGGACAAAAAAAAGAAGA $A G G A A A G G G G G G G G G G G A A A A A A A G A G A A A A A A G A A A C A A A G$ G GAA A GAA A G A G G G G A A G GAA $A \operatorname{AGGGGGAAAGGAAACCAAAAA}$ GAAGAACAGAAGGGCCAGAGGAGAAGGAAGGGGAGAAAAGAAA CAGAAGAGGAAACAGGGGGAACAGGAAAACAAGAAAAAGAAC

CAAAAGGAAGAAGGGAAAAACGGAAGGGGGAAACAGACAAAA A A A GAA A G GAAA A A A $\mathcal{A} G G G A A A A A G G G G G G G A A A A A G A A C A G G$ GAAAAAAAGGGAGACATGGAATTCCAAAAGGGGAAGGCAACC CAGCAAGAGAAAAGGGGAAGGTTAGAAGGGAGAAGGGAGAAC AAAAAGGAAAAGGAGGGAAGGGGAAAACCAAGGGGAAGGGGA A G G G G G G A A A A G G A A A A C CAA G GAAAA A G G GAA $A \operatorname{AGG} G A A A A A$ A G G A A G G A A G GCC C C G G A A G G G G A A A A A A G GAA G GCC G G G G C C C CAACCAAGGCAGGGAAGCCCCAAAAGAGAGAAACGGACAG G G G G G G A A A A A C C A G G C C C A A G G G G G A G A G A G G G A G A G G G G G GAAGGGGGAGGAATTGGACGAAAAACAGGAAAAAAGGAGCCA G GAGGCACAGGGGTAAGACCCAAACGGAAGGAGGGAAAAACC C G G T T A TA GAAAAA A A GAAAGGCAGAAGGGGCAAACC GAAAA ACCGGGAAAACGAAGAAAAGGGAAAAACCGGAACCCAAAAAA A A A G G A G A A A G G G G GCAGGAGAGCAAAAAGGAAACGAAAAAA A A A G GAAAACGCCGGAAGGGGAAGGGGGGAAAACCGAAAGAA GAAAGGAGACCGAGGGGACCATAAAGGGGGGCCAAAGAAAAG
 $A G G G G G G A G G G G G A C A G A G A A G G G G A G T A G A A A A A C C A G A G G$ A G G A A A G A A A C A A G G GAGGGAAAAGAGGGGGAAGGAAAAAAG
 GAGGGGGGGGGAGAAAAGGAGAAACAAAAGGGAGGCGAAAAG G GAACAACCGAGAAAGGGGAAGGGGAGAAAAAGACGGGAAAG
 GAGACGGAAGGAGGGGAAGATAAGCAGGGCCGAAAACAGGGC A GAGAGAAAGGGAGGGGGGAAAAGGGGGGGACCAGCCAAAGA A G GAGAAAAAAGGAAGAAAAGAGCCAAAAGGGGGGAAAAAAA G G GAA $A \operatorname{GGGA} G A C G G A A A A A A G A A A G G A G G G A A G G A A G G G A G$ GAGGGAGAGAAAAGAGGAAGGGGGGAAAAAAGGAAGAACACB A GACCGGAAGGCCCCGGAAGAAACCAAGGGAAAAAGG
GGGGCCAAGAGGGGAAGAAGACCAAAAAAACCAGCACAGGA C G GAGGACAAAACGGGGAAGGCCGGAAGAGGAAAGAAAAGAC $C C A G G A G G G A G G A G G A G G G G G A A G G A A A G A A A A A G A G G A G G A$ A A A G G G G A A G G G G G G G G A T A A A A G G G G A C G G G G A G A A A A G G $G$ A G G C A G G A A G A A A C C A A GAGGAGGAGACACGGAGACAA GATA G G G A A G G A G A C G G A A CAAAGGCCGGCCCACAGAGAAGGAAAG A A G G G G GCAAAAAAAGGGGAAGAAAAGGAGGAGCCGGAAAAA GAAGGGGGAAAAAAGGGAAAGATGGAGGGGGGGAAAAGACAC A G GAA A A A A G G G G CAAAGGGAGGAGAAGGGGGAAAAAAAAAA

 AAAAAGGAAAAGGAAAAAAGGCCGGAAGGAAAAGGGGACAAA A G GAA A G A G G G G A A G A G A A A C GAGGGAAGCCGAACAGACA G G GAAAAGGAACCAAGGAGGGAGATAACCAAGGCAAAGACCAAG GAGAGGGAAAAAGAGAAAAGGGGAAAAGAGGGAAAAAACAAA A G G C A G G A A G G G G G GAAAAAAAGAGGAACAAAAAAACCGGGGG GACCCAGAAGGGGAAAAGGAAGGAAAGAGGAGGAAAAAACAA GCCGGAAACGGGGGGAAGAAGGGCAAAGGAAAAAGGGBAATA AAAAAGGCCGGGGGGCCAAAGGGCCAGAAGGGAAAAGGACCG GAAAAAGGGGGGAAAGGGGAGAAAACCAAAAAAAGGGGGGGG G G G A A GAAAAAAAGGAACCAAAACAAAAAGGGGGGAAAAAAG G G G G A GAA $A \operatorname{GGC} C A G G A A T A A G A A A A A G A A G G G C C G A A A A A A$ $A C A A A A A G G G G G G A A A A G G G A A A A G C C A A G G G A G G G G A C C A G$
 G G G GAGGCCAAAGAAGAGGCACAAGAAGGAGAGAGGAAAGGC C G G G GAGCCCAGACCAGAAAAGGGAGAAGACGGAGGGCAAAA GACGGAAAAAGGGGAGAGGCCGGAAAAAAAAAGGGGGGAAGA $A C C A A G G A A C C C C A A A C G G G A G A A A G G G G G G A A G G G B A A G G G$ GAAAACAGAGGAAAGGGAGCCGAAAAAGGGGAAAAGGGAAAG GAAAAGGAAAAGACCGGAAAACCGGAAAAAAGGAAAAGGGGC

C G GAGAGGCGGGGAAGAGGGGGAATGGAAGGGGAGGGCAAAG
 $A G G A A A G G G G G G G A A G G G G A A G G G G A A G A A A G G A G A G A A A G A$ TAAGGACGGAAGGAGGGGAAAAAGGCAGGGGCCGAAAGAGGG AA $\operatorname{A} A \mathrm{~A} G \mathrm{G}$ GAGAAGAAGAAAAGGAAAGGGAAGGAGGGGAAAAA A A A A A A C G A A G A A A G A A A A ACACAAGGCCGGAGATGAGAGAG A GACCAAGAGGAAAAAAAAAAAACAAAGAGGGGAAAGGAAAA GAGACAAGGCCCAGAAAAAAAGGAACCGGGAAGGAGAAAAAG G G G G G A G A G G G C A G C G A A A A A A G A A C G G G G A A A A A G G A A G G A AGGAAGGGGGGGGAAAAGGCCGGAAGGAACCCCGGAAGGGGA AAA A GAAAAAAAAGGCCGGCCCAAAGGGAAAGGGGGGGAAGA CA $A \subset A G A A A G G G G G G A A A A C G G G C C G G G G G A A G G G E A G A A G G$ G G G A A A C A G A G G G G A A $\mathcal{A} G G G G A A G G G G A A A A A A G G A A G G G G G$ A G G G G A GAACCGAAAGAAAGAAAAAGGCAAAGGAGAGGGGGG GAAGGGGCCGGGGAGGAAGACGAAGGGGGGAGGAAGAAAAAA A G G G G GAAAACACGAAAAAGGGGAACCGACCGGAAGGGAAAA A G G G G GA G GAACAAAAAACGAACGGGAGAAAAGAGAGAGGBA A A A G G GA G A A A A A A A G GAGAGGGAGAAGGAATTGGGAGAAAA G G G G G GAGGAAAAGGAAACAAGGAGGAAGGGGGAAGGCAGGA C GAA A A CAA $A \operatorname{A} A G G G A G G A A G A A G G G G G C A A A A A A A G G G G A A A$ G G GCCAAGGAGGGAAGGGGGGGGGGCCGGGGCCAAGAAAGGG GAGGGGGCCGAGGGGGACAAGGGAGAAAAGAAG
$113106000-9 G A G G G G C C G G G G G G G G A A G G A G A A A A A A G G G G A$ AAAGGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGGA $A C C G A G A A G G G G A G A G G A A C C A G A G G A G G C C G G G G C C G G G G G$ A G GCCAAGGAAAGAGAAGAAGAGAAAAAAAGGGCAAAGAAGG ACA $C A G A A A G G A A A G A C G G G G C C G G A G G G G G A A A A G G A A A A A$ AACGACCGGCCAAGGAAAAGGAAAAGAAGGGGGCCGGCAAGA A A G G G G G G G G G A G G G G G G G G G A A A A G G G G C C A A A T A G G A A G G AGGGAGAGGGACCAGGAAAAAGGAACCGGGGGGAAAGAAAGA A A A A A G A A A A G A A A A A G G G A A G G G A GGCAAGCCAGGGG GAGA GAAAAAGAACCGAGAGAGAAAAGAAGGAGACGACCAAAAAAG GAAGGAACCGGCACCCCGGGGAAGGGGAAGGAAAAGGTXAAA GAAGGGGAAGGAACCGAGGAAAAAACCTTCCAGAGACGGGGA A GAGGAAGGGGGGAAAAAAAAAAGGAAGGAAAAGGAAGAAAA A G GAA A GAA A GAAAAGGCCAAGGGGCCGGAAGGAAAACCGAA AAAAACCAACCGGCCGGCCGGAAAAAAGGAAAAAAGGGGGGG G G GAAA A G GAAAACCAAAAGGGGGGGGCCGGGGGGAAAAAAA G G G G G G G C C A G A A G A G GAGAGGACCCAGGAAAAGAAGGACAA
 A A A A A G G CAGGAAGGGGCCAAGGGAAGGGCCGGATGGGAAAG G G G A A A ACCAAAAAACAGAGGAAGGAATAAGCCAAAAGAAGG G GCGAAAAGGAGACCCCAAGGAAGGAACCGGGGAAGGGGCCA GACAAGGCCGGAACAAAGGAAAAAGAAACGGGGAAAAAAAAA A G GAA $A \operatorname{GGAAAAGGGGCCAAAAGGAGAAGGAAGAGGGGAAAAC}$ CAAGGAAAAAAGGGGCCAAGAGGAACCGAGATAACAGAAGBA A GCAAAAAAAGAGAAGGGGGGACAGGGAAGGAAGBAAAAAAA AAAGGTAAAATCAGAAGGGGGAAAACCGAGACAAAACGAGAG GAAAGGAGGAAGACCGGGAAAGGAAACAGAAGAACGAGAAAA GAAAAGGAGGAACGGGAGAGAACGGACGGAGGAGGAAGGGGG AAAGGGGGGAAAAAAAAACAGCAACAAAGAGGAGAAGGAGGA AAACCCCAACAAACAAGGGAAAAAAGGACAAAACCGGGGAGG GCAGATAGGTAGACCAAGGAAAAGGGGAAAAAAA GAGAGGGC AGGGGGAAAAGCCAAGAGAAGGAGGAGAAAAAAGGCAAAAGG GAAGAGGAAAAGAAGGGGAAAACAGAGGGCCGAAGAAAAAAA A A G G A G A A GAGTAGGGGAAGGAGAGCCATAGCAAAAGAAAAC
 A A A A A A A G GCCAAAAAGGGAAGAGACCGGGGAAGACCGAAGBG G GACGAACCAGCCAAAGCGCCAGAGCAAGAAGGCCAGCAGAA

A GAAACCGGAAGGAAAGAGGAAGGACAGGAAAGAGAGGACAA
 GAATAGAGGGAAGAGGGGGAAGGAGGGAACAGGAGAAGGGGG GAGGGAGGAGGAAAAAAGGAAAAAAAGGACCGGCCAGAAAAA G G G G A G G G GAGGGGGGGCCGGGGGGAAGGGAGACAGAAACCC C G G G A G G G G A GCC G G G G A C A A A A G A G G A G G G G G G G T T A G G G C AA GACAAAGAAGGAACCCCGGAAGGAACCAAGGGGGGGAAAA AGACCGGAGAAAAAAAAGGAAAACCAAAGGGACCCGAGAAAG AAAGGAGAACAGAAGAGCCGGGGGAACGAAAGAGGCCAGAAG AAAAAGGAAGGAGGAGAGGAGAAAAAAAGGGGAAAGACAAGG GAGAGAGGGGGGAGAGGGGAAAAAAGGCCGAAAAAACCACAA A A A A A A A A A A G G G A A A A A A A A A A G G G G G G C CAAC CAAAAAA GA A G G A A A A $\mathcal{A} G G G A G A G C C G A G G G G G G A G G A A G A A A A C C G A A G G$ A G G G G G GAAAACCAAGAAGAACCGGGGGGAAAAACGGGGGGA GAGCAGGACAAGGAAGAAGGGAAAAGAAAAAGGGAGAACGGA A G GAGAAAACAAAACGACCGGGGGGCCAAGAAAGGCC GAGAAA G GAA A GAGGGGCCAGCCGAGAGACCCACAGAGGGACCAAAAG G G A A G A A G G A A GAA $A \operatorname{GA} A \mathrm{~A} A A C G A A G G G G A G G G A G A G G G A A C G$ G G GAACCGAGACCCAGGGGAAGGGAACACAGCCBAAGAGGGA G G A A A A A A A A A A A A G CAGGAGACGGAAAGGAAAAAAGGAGGG GAAGGGGCCAACCACCGCAAGGGGAAAGGAAAAGAGAAGAAA G G G A A A A G G GA G G A A G G A A A A C C G G CA G G G G G A GA G G C C G G G A A GCAACGGAAAAAAAAGGGGGGAAGGGGGGAGACAGGGCCG G GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAA GA $G C C A A G G A A G G A A G G C A G A A C A G A G G A A C A G G G A G G G G G G G G$ GAAAAGAGGGAGGAAGGCCAAAATTAAGGGGGAGGGAAACAA G GAGGAGGAGAAGCCGGGAAGAGAGGAACGAAGGACAGAAAA G GAA $A \subset A G G A A G G G G G G G G C C C C G G G G A A A A C C G G G G G A A A G$ GAAAAAAAATTAAAAAGCAAAAGGGGGGGAGAGGGGGGAGAA GGAAGAAGGACAAAAAAAAGAGAGGAGACGGGGAAAAGAAAA A G G C A A A A A A G A A G A G G C C G G C A A A G A G G G G G A G G A A G G C C A A G G A A GAGGGGGGAAGGAAGGAGGAAGAACCGAGGAAAGAGA GCCAACAGGAAAAAACCAAAAACGAGAGAAAGGGGCCAGGGG AA G G G A A A A G A GAAAAAAACAAACCAAGAGGGGAGGGGAAAC C G G G A G G G A A A A A G A A GAGGGAAA GAGAAAGGGGGCCCCGGG G G G A A G A G G A A A A G G G A G G T A G A G G C C G A GAAAAAA A A A A A A GAACAGGAAGGAAAGAAGGCCAGGGAAAAAGCCAACCAAGGG
 G G G A A A A A G G A A G G A A GAA $A \operatorname{GAAAGGAAAAAAAAGGGAAAGAT}$ $T G G G G G G G G G G G G A A G A G A G G G G A A G A G A A C G G G G E A A G G A A$ A G G G G A G G A G G G GCC G G G G A A G G GAAAAGAACCAACCAAGAG G G G A A $\mathcal{A} G G G G G A A A A A A G G G G A A G G G G G G G G A A G A A A G A A G C$
 G G GAGGGCGGAAAAAGGCCAACCAAGGAAAAAAAAGGGAACA $A G G A A A A G G G G A A G G G G G G G G G G G G A A A A A G A A A G A A G G G A A$
 A G G G G C C A G G G G A G G G A A C A A G G G A G G G A G G G G G G A A A G A G T TGAAGACGAGGATGAGGCCGGAAAAGGAAGGAAAAAAAAAAA A G GAAA A G G G GAAAAGAAAGGACAAAAAAGGGAGAGGAAAAA GATGACCCCGGGGAATTAGAAGGCCAGGGAAGGGGGCAGCAG G G G G G G G A A GATAGGAACCAGAAAAGGGAAAAAAAAGAAGAC CAACCGGGAAAGAGGGGGGAGAAAGAAGGAAGGTTGGGGGGG A A A A A G G A A G G G G G GAA A G G G A A A A A A G G GAA A A A G A A A G A A CAACCGGCCAAGGGAGGGAAAGAAAGGACGGACGGCCAATAG GAAGGGGAAAGGGAAAGTTCCGAGGTTAAAACAGGGAAAAGA GAGAAGAAAAAAGAAGGCCACAAAGGGACAGGATAAAAAAGG
 A G G G G A A G A A A G A A A G GCC C A G G GAGAGGAGAGGACA GAA G C CAAACAAGGGGGGCCCCGGAAGGCACACAGAAAGGAAGAAAG

G GACCCAGGAGAAGGGGAAAAGGGGGGAACCCCAACCAGACG GAGGGAACCAACCGGAAGGAAAGAAGGAAAAGGAAGGGGGGG GAAGAGGAAGGAACCAGAAAGAAAGAAGAAAGAAGGGGAAAA AAAAAGGGGAAAAAAGGGGGGAAAAGGAGAGGGGGGGAAAAC $C G G C C G A A G A A A G G G A G A G A C A G C C A A A A A A G G C C A A A A A A A$ A A GAA A G A A A A GAGAGGGGGGGAAGAGGGGAAAAAAACACAA $A C C A A G A G G A G G G A C A G G G G G A A C C A G G A G G A G G G G G G A A G A$ AGGAAAAGGACAGAAAAGGAAGAAGAAAGACGGAAAGAAAAC C G G TAA A A A G G G GAAAA $A \operatorname{A} G A A A A A C A G C A G A C C A A G G A A G G G$ GAAACGGAGGAAGGGAAGGGGGGAAGGCCGGGGAAGAAAGAA A A A G G G G G G G G A A A A G G A A A A A A G G C C G G A A G GA G G A G G G G A A A A G G A A A G G GCCGGCCGGCCGAAAAAGACCAAAAAAGGGAG C C C G GAA $A \operatorname{GCA} G G C A G G A G G A A C G G A G G G C A A C G G G G A G A G A$ GAAAAAGAGAGGGGGCACCGGGGAAGAGGAAAAGAAGCAAAA A A A A A A G GA $A \operatorname{GGAA} A G G G G G G A G A C A T G G G G G A G A G G A G G G A$ G GACCAAAAGGAACAAAAGGGAACACCCCCCGAAAGACCGBA GAAAA A A $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A \operatorname{A} A A G G G A G C G A G A G C C G G G G G G A G A A C$ $C \subset C G G A A G G G A C C A A A A G G G A G A A A A A G G A A C C A A A A A A A G G$ ATAGAAGGAGAGGAGGAAGGGAAAGGGAACCGGAACCGAAGA G GAA A A G G G G A G GAA $A \operatorname{AGGGCACCGGGGAAGGAAAGAGGAGAA}$
 GAGCCCCGGGAGAGAAAGAGGGAAAGGGGAACCCCGG
 GAACAAGGGCGCCAGGGGGAAAGGGGGAAGGAAAACCGGGGC A G GCC C $C$ G $G G G G G G G G G G C A A G A G C C A A A A A G A A A G A A A A G G G$ GAGGGAAGAGGCCAGGACAGAGAAGACGAGAGGCAGAAAGAA G G G G GCGGGGGAGAGAAGGGGACGGACGGAAACGGGGGGCAA
 GAAGGAAGGAAGGAGGAAAGGGGAAAGAGAGCGGGGGAAAGG GGGCCAAAAGGAAACTTCAGATTAGGAATAAGGGGGAAACAAG G GAGGGGAGAAAAGGAAGGGGAAAAAAAAGGGGAGCCBAAAG GGAAAGGGGGGCGGCCCAGGAGGAAAAGGAAGGGGAACAAAG GAAAGAGAACCAAGGAAGGCCGGAGAAAAGGAAAAGGGACAAA A A A G GAA $A$ A $A \operatorname{A} A G A G G G A A C A G G C A G A A A G G G G G G G A A G C C A$ GAGCCAAGGGGAGGAGAAAGGAAGGGACAGAGGGGAGAAGAA GAAAAGAAGAGAAGGACAGCCGGGGAAAGAGCCAAAAGAGGA A A A G G G GAA A GAAGGCCAAAGAGGGGGAAAGGAAGAAAAAGA AAAGGCCATACACGAAAAGGAAGGGGAACAAAGGGATAAGGG G GAGGAAAAAAAAAAGAGAGAGGGAAGCAGAGGGGGACAGAA A A A G A A A A GAA A GAAGGAGCCGGGACCGAAGAAAAAAAACAA AAACCCCAAAAAAAAAAAAAAAGAAGGAGAGAGGGGGGGGGA A G G A A A G G GAGCC $\mathcal{A} G G G G G G A G G G G G G A C G G G A G A A A A G C A A$ AGAGGGAAAAAGGGGAAAAAAGGGACAAGAAAAAGAGAAAGA G GAGGAAAAAAGAAAAAGGCGGCAAGGAAGAGGGACAAAAAA
 G G G A A C C G G G G T T A A A $\mathcal{C} A A A G G A A A A G G G G G G A A A G G G G G G A G$
 GAAAGAGGGGAGGGGGGAGAAGGAAGAGAAAGGAGGAAGAAA GAAA A $A \operatorname{A} C \subset G G G G G A A G G G A A A A G G G G G G G A A A A C G G G G G G A$ A G G G G A A A GAAA A A A A A G GAGCAGAAGAGAAGGGGA GAA G G C A A CAAAACCAAAAGGGACAAAACAAGGAAGGGGGGAABGGGGGG $G C C A A G G A A G G A A A A G G A A G G G G A A A A A A G G A A G G G G G G G G A$ A G GAA A G C C A A G GCCCCGGGGAAGGAAAAGGAAAAAA GAAAC CAAAAAAAAAACCGGAAGGGGGGAAGGAAGGGGAAAAAAGGC $C \subset C G G G G A A A A G G G G A A G G G G A A G G G G C C A A A A G A G G G G G G G$ GAAGGGGAACCTTGGCCCCGGAACCAAAAGAAAAGAAAATAG
 $G C A G A C C G G A G G G A A G G A A G G G A A G A G A C G G A A A A G A C A G G G$ G G GCGGGGGGGAGGGAATTGAAGAAAGAGGAAGGAAACAAAA

A A A A A A G A A A G A A A A A A GAAGAACCCCGGGAAGAAAAGAGAA GAAGGAAGATTGGAGGGACAGGAGGACACGAAAAGCCGAAAG G G G G G A A C A A A A G G A A A A A G GAA A GAA G GTTAAAAAAGGACA ACCGGAACCAACCAAAAAACCAAGGAACCGGGGGGGGAAAAA AAAGGAAGGAAAACCAAGAGAAGAGCACCCCAAAACCCCGGA A G GAAAAGAGGTTGAGGAGACGGCAGAAGGAGAGACAAGAGG ACAAAAAGAAGGAGGGGTTGGGAAAAACCAAGGGGAAGAGGA AAAAGGAGGGAGAAAAAAAAGAGAGACAGAGGAAAAGGAAGA $A C C A A A A G A A G G G G G A A G A A A C C G G A A A G C G A A A A A A G G G G A$ G GAAAAAGAAAAAAAAGGAAAAAAAGGGAGAAAAAGAGAAAG A A A G G A A G G A A GA $A \operatorname{GGGGGGGAAAGGAAGGACGGGGGGGAAAA}$ $G C C A A A A G G G A A C C C G G G G A A G G A A A A A A C A A G A G A C G A G B A$ G G G A G A T G GCCGGGGAAAAAAGGAAAAAAGGGGAAAAAAGAA A A A G GCCCCGGAAGGGGCCGGGAAGCCGGAAAAGGGGCAGAG GCAGGACAAGGAAAGAGAAAAAGGAAAAAAAGGAAGGGAAAG GAACCGGGGGGAGCCCAGGAGGGAAAGACGAGGACAAGAGAA A G G A A C C A A G G G G C C G G G G G G G G A A G G G G A GAA A G A A A A A $G G$ GCCGGAAAGGGGGAAAAGGAAGGAAAAAAAGAGAAGAAGA GA $G G A G A A A G A A G G A G G A G G G A G A A C A A A G G A A A G G A A G A A G G A$ G G G G G G G A G G A G G A A A G A C G G A G A A G G GA GA GAA G G G C C G A C AGGACGGGAAAGAGAGGAAAAGGAGATAAGGAAGAGGGAAAA A G GCCAAGGGAACGAGGCAGAAGGGGGCCGAGGACTTCCGGA A G G G G A A C C G GCGC C A G G G A A A A G G A A G G GA G A A G G A G G G G T TGGAGAAGGAGCAGGCCCCAGAAGACCAAAAGGAAAGGAGGG G G G A C T T G G G A A G G A C C A G A G A A G G G G G G C A A A G G G G G G A A A AAAAAGGGGGGAAGACAAAGGGACAAAAAGGGAGGGAAAAAA C CACCAAGGGGGGAAGGAGCAGGGGGGAAGGAAAGGGGAAGA AAACCAAAAAAGAACAGAAGGAAGAAAGAAACCGGAAAAABA A CAGGAAGAAGACGGAGGAGGGGTAAGAAAAGGAACCAAGAA AAACGAGTTGGAGGAAGGGAAAGAAGGCCAAAAAAAAAAAAA CAGAGGAGAAACCCCTACCGGGGAAGGTTAACCCCAAAAGAC CAAAAGGGGGGAGAAAAAGTACAAAGGAAGGGGAAAAAAGAA A G GAA A A GACCAGCACCGGGAAAAAAGAAGGAGA GAAAGGAA
 GAAAAGGGGAAGGGGGAGGAAGGGGGGGGAAGGGGAAGAAAA GAGAACCAAAGGGGGGGGGGGAAAAAAGGAAGGGGGGGAAGT TGGAAATGGGGGGAAGGAAAAAAGAAAGGACAAAAGGGGCCA AAAAGCACCAGAAAAATGAAAAATTTTCCAGAAAAGGAAAAG GAGAAGAGGGGAACGAGTACCAGAGACGGAACCGBAAAAAGG GAGAAGAAAGGGGGAACGGAAAACCGAAAAAACGAAAGAAGA G G G GACCAGCAAAAAGGGGCAAAAAAAAAGGAGGGGGAGCCC G G G G G G G A A A A G G G A C C A A G G G G G G G G A G A A A A G A A G G A A A $G$ GAAGAGGGGGAAGGAAGGAGGAACCGGAGAGCCAAGGTTCCA $A C C G A C C G A A A A G G A A A A G G A A A G G G G G A A A A A A A A A G G G G G$ G G G A A G G G G G G A G A A A A G G A A A A GAAGAAAGGGAACAAATXA $A C C G G C C G A G G A A A A A A A G A A G G G A T A A G A A A A G G A A G A G G G$
 G G G GAACAGGAGGAATAAGAGAGGAAAGGAAAAAAGAGGGGA GAAAAGGAAAAGGTTAAAGGAGGAGCAAGACAAA GAGACGGA
 T G A A A A A G GCA $\mathcal{A} A C A G G G A A G G G A G C A C A G A G A A A G G G G G G G$
 A G G A G A A A A CAGGCCGGCCAAGGAGAGGAAGGAGGGAAAGAA A G G G GCCAAGGTTGGGGGGAAGGCCGGGGAGAGCAGGGAGAC A GACACCAGAGGGGGCAGGAGGAAACCAAACGGTTGGAAGAA A G GAAAAAAGGAACCAAAAAGGGGGAAAAAAGGGGAAGGGGA A G GAA A G GACCGGAGGAAGAAAACCCCACGAAATTGGGAGGAA A G A A GCA G A A GCA $\mathcal{A} G G G G A C C G G G G G G A G A G A G C A A G A A A B A$ GAGCAAAGGAAAGAGGGAAAGCCCAGGGAGAAGAGAGGACCA

AAAAAGGCCAAAAAGAACCGAAAACAGGGCCGGCCAAAAAAG G G GCCAGGGGGGAAGACGAGGCCGGAGGGAGAGAGAAGAAAG GCGAAGGGGGAGGAAACAAGAAACCAGAAAACCAGCCGGGAG A G GAA A A A A A G G G G GAGAGACAGGGAAAAAAGAGAAACAA GA GCAAA $\mathrm{C} A \mathrm{~A} A \mathrm{~A} C A G A G G A G G G A G G G G G G A A A G A C A A A A C A C C G$ A GAA $A$ AC $\operatorname{CA} A A A A A G G C C G A G G G C G G G A C G G G A G A G A G A A A G G$ A A G G G A A A G GCAGAGAGAAGGAAAAGGACAAAAA GGGCAGAA GAAGGAACATTAAAAAACCGGGAAAAAAAAAGGCAAAAAAAA A A A G A A A ACCAAACAAAAGAAGGAAAAGGAACCCCAAGAAAA AGGCCAAGGGAAACCGGGAGGCCGGAAAAAAGGCCCAAAGGA AAAAAAAAAAGCCGGCCAAAAGGACAGGAAGGGAAGGGAAGG A A G A G G A A GCAAA G GAGGAAAAACAAAGACCAAGGCAGGCCA G G GACAGAGCGAGAGAAGGAAAAGGAAAAGGGGGGCCAACAC A G A A A A A G G G G G GAACCGGAAAAAAAGGAAGGGGGATAAAAA $A C C C C G G C C G G A A G A A A C C A A G A G G A A A A G G A A A A A A A A G A G$ A G G G G A T G A A A A A G G GAAA A G G G GAAAAGGGAA G G CA A G G A G
 AACGGGAGAGGGGAAGGGGAAAAGGCCAGGGGAGGAAAAAAG AAAAAGGGAATAAAAAAAAGGGGGGAAGAAAACTTAAAACAG GAA A A A A A A A A GAGGAGACCCGGTTAGAAAAAAAAGGAGGCA AAAGGGGGGGGCGGCAGAAAGGGGGGGGGGAGGAACAAAAAA TGAAAGGAAGAAGGAAGAAAAAGGGAAAGGAATGGGA
AAAAGGGAAAGCGGAGGAAAAGAAGGGGGAACAGAGAACCA A G GCCAAAAACAACCAAGGGGAAGGAGAACCCCGGGGGGGGG GAGAAAGGAGAAAGGAAGGGGGGAAGGAAAATTGGAAAAAAG GGGCCCCGGAGAAAAGGCCAAAGCCAAAAAGACGGGAAATTG GAGCGAAGGCAAAAAACGAAAACAAGGAGAAGGAAGACAAAA TAACAACAAAAAGAAGGAGAAAAAAAAAAGGAGAGGGAGAA G G G GAA A A G G G A A A G GAA $A \operatorname{AGGAAAGAAAAGGGAAGAGAAAAGG}$ GGGCCAAGGAGAGGACACCGGGGCCAGGAGGGGAAGGGAAGA
 GAGGGCGAAGGGAAAAAAAGGAAAAGGGGAGGGAAGAAAAAA
 G GAGGAACAGGGGAAGAAGAGAAAAAACCAAGAAAGBAGCAG GAAGGAACCGGGGCCAGGGAAGAAGAGAAGGGAAAAAGAAAA A G GAA A GAACCAAGGGCAGGGCAAGGGGAGGGGGGGAAACAC CAAAAAAAAGGGGACAAAATAGGGGAGGGAAAGTTACAGCCG G G G G G A A G GAC $\mathcal{A} G A A G G G G G A G G A G G A G G A A A A A A A A G A A A A$ C G G G A A G G G A A G G G G A G G G G G G G A A G G A C C A G A G A T T A G G G G A A A G G A A A A A A G G A G A A A A A G A A G G G G G G G G G G A C T T G A G G A G G G G G G G A A G G GAAACCGGAGGGCCGGAACCAGGAGAGAAAG A A A A A G GCCAAAACCGAGAGAAAGGAAATCCAAGGAAGAAAC $C G G G G A G G A C C G G G A G G G G C C A A G G G A G G G G A A A A G A G A G A A$ C T TAAA A $A$ A A $A \operatorname{A} G G G G G G G G G A G G G A A G G G G A A A A G G A B A A G$ AGAACCCGGCAGGAGAAAAAGAGAAAAGAAACCGGAAAAGAA A ACCAGGGGAAAGAGGACCGAAGGAAGGGGGGGAAAAAGGGG AAAAAGGAGGGGAGGAACCAAAGAAACGGGGAGAAGGCCGGG GAAGGGGACAGACGAACGGGAGAGGACGGGGGGGGCACAAAG $G C C A A A G C C A A A A G G A A A A G G A C A A A A G G A A A A C C G G G G G G G$ A A A G A A G A G G G A A G G G A A A G G A A G G G G A A G A A G G G A G G G A G G G GAGGAAGGCCAAGCGGGGGGGGAGGACCAAAGGGGGGAGGG GAAGGAAAAAAAAAAGGAAAAAAGGGGAAAAGGAACCCCGBAA $A C C A A A A G G G G A A A A G G G G A A G G A A G G G G G G A A G G A A C A A A A$ $A C C G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGGC CAAGGGGAAGGGGAAAAAAGGGGGGAAGGAAGGAAAAGAAAA ACCAAAAAAAAAAGGCCGAAAAAAGGGGGAAAAAAAAG GAAAACCGGGGGGGAGAAAGGAGACAAGAGGACGAGAAGAGG

A A A GAGAGGCCAGAGCGGAGGGGAGGGAGCCAGGAAGAGGAG G G G A G A G G G G G G A G G G G G G A C G A G A G A A A GAAAA A GA GAC C $\mathcal{A}$ AAAAGAAAGAAGGCGGACCACAGGAGAGGAAAGACGAGACAA AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} C \mathrm{C} G \mathrm{G} C \mathrm{C} A \mathrm{G} G \mathrm{G} G A A A G G C C G G A A G G A A A A A A G A A A G$ GCCGGGGAGAGGAGAAAGGTTGGAAGAAGGAGAGGACGAGAA AAAAGGGCCCCAGGAAAAGAAAGAGGGCAAGGACCGAAAAAA G GAA A G G G GAA $A \operatorname{AGGGGAGGGGAAGGAAGGCCGAGGGAAAAAG}$ GAGAAAAGAGGAAAAAAAGAAAGGAGGGACAAGGGGGGGGGA
 AAAGAGAGGGAAAGGAAGGAAAGAAGAGGGAAAAACAGAAAA GAGAGGGAGAACAAAGGGAAGGGGAAGGGCGAGAGCAAACCG CAAAAAAAAGGAAAGCAGGAGGGGAAAAAAAGGAGAGGACAA G GAAAAGAGGGAAAGACAAAAGGAAGAGACACAGACAGAAAA
 $A C A C C G A G G G A G G C A A A G G A A A A G G A A C C A A A G C C A A G A A A G$ $G C C G A G G T A C A G A G A G G A A G A A G G G G G A A A A G G A A A A A A G G C$ GAAAAACGGCCGGGGACGGCCGGGAAGAAGGAGAAAAGAGGG AA GAGAAACAAAAGGAAAAGACCAAGGAAAAGGAACAAGGGC CAAGGAAAAAAAAGGAAGGGGGGAAACGGAAAAAGGGGAAAC G G G G GCCA GAAAAAAAGAGAGAAAGAACAGGAAAGAGAGGAG A G GAGAAGAAGAGAGGGAAAAGGAAGGCAGGAAGAGGAGGGA C G G G G G GCCGGAAAAAACCAAAAGGAACCGGGGAAGGGGGGA A G G G G G A C A GAACCCGGGAAAGGAGGAGAAACCTTAAAGCCA A G GA $A G G C C G A G G A A G A A A G G G A G G G A G G G G A A G A A G A G A A G$
 GAATAGGGGAGGAAACCGAGGGGAACCGAAAAACCGGGAAAG A A A A A A A A A G GAA A A GAAGGGGACCGAGGAAAGCCAGAAAAG GAGAGGGGGGGAAGGAAAAGGAAGGCCCAGGGGAAAAAAAAG GAGAGATAGGAGAAAAGAAAAAGGGAGGATTAACCAACCCCA CAAGAAGAAGGGGGGAGGACAAAGGGGGAAGGAGGCCCAGAA A A C G G A A G G A G G A G G A A A A G G G G A A G G G G G GAA G G A A C A C A G G GAAAGAAAGCAGGAACGGAAAACCAAAAGGCCCCCAAACAG
 $A G G C C G G A A G G G G A A C C A A G G G G G G G G A A A A A A G G A A A A G G G$ G A A G G G G G G A A $\mathcal{A} G G G G G G G G G G G G G G G C C A A G G G G A A G G G G A$ A G G G GAA $A \operatorname{AGGGGGCCGGAAAAGGAACCAAAAGGAACCAAGGG}$ GAGGGCAGAAGGGACGAAAGAAAGAGACAAAAACCAAAAAAA A GAGAAAGGGGGGGGGGGGAAGGGGAGGAGAAAAGCAAAAGA

 GAGGAGAGGGGGGAGGGAGGAGATXAAGGACAAAGGGGGGGG GAACCAAAAGGAACCGGGGCCGCCAAGGGGAAGGGGAAGGG AAAGGACAACACCAGAAAGCGCAGGGAAAGACACC GAAGGGA G G A A A A T G GAA $A \operatorname{G} G A A G A G G A A G A G G G A A G G G G G G C A A A A A G$
 A A A C C G G G G G G G G G G A A G G A A G G A A G G G G G G A A C C G G A A G G A A A A G G A A $\mathcal{A} G G G G G G G G G G G G G T T A A G G A A A A C C A A A A A A G G G$ GAAGGGGAAGGAAAACCAAAAGGAAAAGGAAAAAAGAAACCT TAATTGGAAGGAAAAAAGGAAAAAAAAGGGGGGGGAGAGAAA A A A G G G G G G G G A G A A C C A A GA $\operatorname{A}$ G $\operatorname{A} A A G G G G C C A G A A C C G G G G T$ TAAGGGGAAAACCAAAACCAGGGGGAAAAAAGGCAAGGAGAC AA GAAAGAAAGAGAAGGCCACAACCGAAAAGTAGGAAAAA GA A A A A A G G A A G G A A A G CACAGGGGAATTAACCGAAC GGGAC CA G GAGAAAGGGGCAGGAGCAAGGAAGCCAGAGGGGAAAACAAC C G G G G G G G G A A A G G A A A A G G G G G G G A A G G A A A A A T G G G G G G A A A G G A A GAGGGAGGAAAAGAAAAGGAAAAGGGGCCCCAACAA AAAGGAGAAAGAGGGAAGGGAAAAAAAAAGGAACCGGAAAAC $C \subset C A A A C A G G G A A A A A A A A A A G G A A A A C C G G G G A A A A A A A A C$ $C G G C C G G A A A A C C G G G G G G A A A A G G A A A A A A G G G G A A A A G G A$

G GAGGGAAAAGAAAGAGGGGACCAGGGGAAAAAGGAAGGCCG GAAGGAAGGGAAGGCGGAAAAAAGGTTGAAAAGAGCCAGGBA GCAGGGGAAAAAAAAGGCCGGGAAGGAGGAAGGCGGAAAAAC $C G C A A G C G G G A A G A G C G A G A A G G A G A G G G C C A A A A G A G A A A G$ G G GA GA A A G GAAAGAGAAGCAGGGAAGACAGAGGGAAGAAAG G G G C C G G A A G G G G A A G G G G A A C A A G A A A A G G G G G G G G A A A $G A$ GAAA A GAGAAAAAGGAGGGAGGGGGAAGGAACCCAGGCAGGG $G C C G A C A A G C C G G G G A A A A G G A A C C A A G G A A A A A A A A G G G G A$ ATTGGGGAAAAAAAACCAAAAAAGGAAGGAAAAAACCGGGGG GCCGGGGAAAAGGAAGGAACCCCGGAAGGGGGGAAGGGGAAG GAAAAAACCCCAACCGGAAAACCAAGGGGGGAAGGGGGAAAA $A C C C C A A G G A A G G C C G G T T G G G G G G G G G G A A A A G G A A G G G G G$ G G G A A G G A A C C A A A A A A G G G G G G A A A A A A G G G G G G G G G G A G A A A A A A C C A A G G A A A A CAAAGGGGCCAGGGACAAGGACGAGGA ACCAAGGAGGAAAAAAAGATAGAAAGGAAGAGGAAAGGGCCA A A ACC C G G GAGAGAAGGGGACGGAGGGAGAAAATTGAAAAAA
 G G G G A A A G G G G A G G GAAAA $A \operatorname{A} \operatorname{A} A A A A T T A A G G A A A A G G A A G G G$ GAAAAAAAAAAGGAACCCCGGAACCCCGGAAAAGGAAGGGGG GCCGGGGGGAAGGGGAAGGAAAAGGAAGGCCAACCAAGGGGG G G G A ACCAAAAAGGGCCGGGGCCAAGACCAGCCCCAAAAAAA G GAGGGGTAACGGATACGGACGAAGAGAGAAGGAAGG
A A GAA A A GAAAAAACCGGGGGGGGGGGGAAAAGGGGAACCG G G GAA A A A A A GAACCGGGAGAAGAAGAAGAAAGGGAAAACA G GAAGAAGGAAGGGGACAAAGGGGAAAAGGAACCGGGGGAABA G G GCAGAAAAAGGCAGGGGAGAGCCCAGGAAGAGGAACAAAA CAAGGAATTGAAAGAAGAGGGGAGAAAGGACGGGGGGAAGAA A A A A A GA $\operatorname{A} G A G G G A G A G G G A G A G C C G A A G G G A G A A G G A G A C A$ GAAAAAAGAGGGGAAAAAAGGGGAAGGAAAAGGACAAAAACB A G GAGCCGGGGAAAAGGGGGAAAGGGAGGCCCCAAGAAGAAA A A A C C A A A A $\mathcal{A} G G A A A G G G G A G A A G G G G G G A A A G A G G G B C A B G$ A G GCAA $\operatorname{A}$ GAAGGAAGAGGAGGGGCCGGAAAAACACAGAAGGG A G G GAA $A \operatorname{G} G A G G G G G G G A A A A G A A G G A A G G G G G G A G G A A A G C$ CAGAAGGCAGAGGGAGGAAGGAAAAAGAAAGAAAAGGACA G G $A$ GAAGAGACCGGAAAACCGGAAAGCAAGAGAGGGAACCGGGGG $G C C A G A A G G A A A A A A G G A G A G A A G A A G G G A A A A G A G A G A A A G$ $A C C A C A C G G A G A G T T G G G A G G A G C C A A A A G G G G G G G G G G G G A$ $C G G G G G G A A G G G G G G G G A A A G C C G G A A A A C C A A G A A G A A G G G$ GAAAAGGAAGGAAAGCCGGAAGAAGGGGGGGAAAAGGGAGAA G G GCCCCAGGACCGGAAGGAAAAGGCCAAGGAACCGAAAGGG GAGAGGGAAGAAAAGAGAGGAAGACAGGGGGACGGAGGAAAAG $G C C G G G G G G G A A C G G A A T T A A G A G G G G G G C C G G A A G A A A G G G$ GAGGGAAAACCCCGAGGGAGGGAGGAGAGAGGGAGCAAAGAG GCCCC G G A A A A C C G G G G G G G G A A G G G G C A G A G G A G G A G A G C A C G G A G A G A GACAACCGGCAGAGGAGAAAC G GA G G G G G G G G G G G G $G C A C A C G A A A A A A A A G G G A G G A G G G A A G G A C A A A A G G A C A C G$ G GAA A GAA A ACCCAGGGAGAAGGAAGGGGGAGGCAAGA GA G G G G G G GAAAGCCGGAGAGAGAAACGGACGGACAAGGAAAAACA GAGAGGGGAACGGGGAGCCGGGGAAGGGACCAAGGCCGGGGG A G G G G A A G GA G G GACAGGAAGAACCAGGGGGGGAGAAAGAAA G G G A G A G G A A A G G G G A A G A A A G A G G G G G G A A G G A C A G G G G G G GAGAAAACCGGAAGAACGGGAGAAAACAGGAGAGAGGAAGAG GCCAA G GAA C G GAACCAAAAGGAAGGGGGGAAGGGGAAGGGGA A G G G GAAAATTGGAACCAAGGGGAACCAAAAGGAGCAGACAA G G G A A A G G G G G A A G A A A C A G A A G A A G G CA G G G G T A A A G G G G G G G G A G GC G A G G G G A G G G C C G G A A G G A GA G A A G G G GC C C C A G G G G G G G GACCGGCAAGGAGGGGAAGGAGAGAAGGAAAGGGGGT A G G A A A A G G A A A A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G} G A A G A A G G A A G A G G$ A A A A G G T TGGAAGAGGAGGGGGAAACGGGGGGGAAGGGGGAAAACAAAC

C G G G G G GAAAAAAAGGGAGACAAGGCCAAGAGAAGAAAACAA A G GCCGGAGGGGGAAAAAGAAGAAAAAAAAAAAAAGGCAGAA TACGGAGCAGGGGGAGAGAGAAAGGGGAAGGAAAACCGBAGA AAGGGCAACAAGGACAAGAGGGAGGCCAGCAGGGAAAGGTAC CAGAGCAAGAAAGGAAAACGGAGAAAACGCCCCGAGC GAA GA $C G A G A G G A C A A G G G G G G G G G G A G G G G G C C C C A A A A A A G G G G G$ GCCAGAAAAAAGGAAAAAAAAGGGGACAAGGAAAGAAGAA GA AAAAAGAAACAAAGGGGGAGAAAGGGAGACCAGAAAAGGGGG GAAAGCAGACCAAAACCAAAACCAACCAAAAAAGGGGGAAAA G G GAGGGCAAAAAAAGGAAAAGGGAGACAAGGGAGAAAACCC ACGACGGCAAAGGGAAAAAAAGGCCGGGGAAAAAAAAAAAAA AAAGGAAAGGGCGGGCACCAAAAGGGGGGAGGAGGGACAAGA ACCAAAGGAGACCCCAACCCGAAAAAAAAGAAACCAAAGGAA A A A A A A A A A G G G G A GAGCCCCCAAAGAGGAGGGGGAAAAGAA GAGAAGGGGGGAGGGGAGATTGGGGAACAAAAAAAGAAAAAC CAAGGAAAAGGGGGAATAAAAAAGGAAAACCAGGGCCACAAA A A A G G A A G G A A A A G G G GAA A GAGCGGGAGCATAGACA GACC G GAAAAAAGGGGAAGGAGGAGGGGAGGGGGCCAGGAGAGAAGA A G G A GAG $\operatorname{A} G A G G G G A G G G G G G A A A A C C G G G G C A G A A A C G A G$ $A C C G A G G C C C C G G A A A A C C A A G G G G G G A A G G G C G G G G G A A G A$ GAAAGAAGGGGGGGCAGAGGGAAGGGGGGCCAAGGAACCGGG G G GAAGGCAAAAGAGACGAAGGGGATAAACCAGCAAAGGCAG G G A A A A GCGCAGGGGAAAAACGAAAAAAGGGAGGAGAAAACC CCCGACAAAGGAAGAGGGAAGGGAAAAGGGGAGGAAACAAAA C C A A GCC G GA A G GCCGGAGACAAGGAAGGCCGGAA GAGAAAA GAAGGCCGGAACCAGGGAAAACCGGGGGGCCGGAAAACAAAA A A A A A A A G G G GAGGGGGGGAAAAGGAAGGGAAAA GTTCAAAA
 CAGGAAAAGAAAAGAAGCAACGGCCAGAGAAATAAGAAAAGC CAGGAAGAGCCCAGGGGCCGAAAGGAAAACCAAAAGGCAAGG GAAAAAACCAGAAAAGGGGGAAAAAGGGGAAAGAGAGGAAAG GAAAAGAGGGGGGGGGGGGGGGGAACAGGAAGGGGGGAAAAG A G G G GAAGGCCAAAACCAAACAACCGCGGCCAAGGAAAAGAA G G GAA A A G G GACCACAAAGAAGGGGGAAAGAAGGAGAAGAGG GAGAAATGGGGCCGGGGGGGAACGGGGAAAGAGCCAAABAAC A GAGAAACCGGAGAGGGGAGGAGCCGGGGAACAGGAAAACAG G GAA A G G G A A G G GAGGGCAGAGAAGCAAAGGGGGGAAGAAGG AAACCAGGGAAAAAAAAAGCAAGAAAAAACCAGAAGAAAACG GCAAACCAAACAGGAAGAGAGAGAGAACCAAAAAAAA GAATA G G GAA A A G GAAAAAAGAAAGGGAGGAAAAAAAAAAGAGACAA A A G G GCAATAAGGGAGGAGACGAACACAGAGACAGCAGATAG G G G A A A A A A G G G C G G G G A G G A A A $\mathcal{A} A G G A G G A G A G G A G G A G G A$ AGGGGGAAAAAAAGAGAGAAAGGAGCGGAAAAAGGAAGGGGG AAAGAAGAAGATAAGAACAAAAAAACCAAGGGGAAAACAAAC
 G G G G G A A G G A A G G A A A A G G G G G GAA A G A A A A G GAA G G T TAA A A G G A A A A G G G G G G G GAAAAAAAAACCAACCAAAAAAGGCCCC G G G G G GA $\operatorname{l}$ GAAACCGGGGGGGGAAGGGGCCGGAAAAGAAAAAA A A A G G A A A A G G G G G GAGGGGGGGAAGGAACCAACAAGAAAAG GAGAAGGGGAAGGAAAAAAGGGGGAGAGAAAGAAAGGAAAAG A G G A A A A T TAA $A \operatorname{A} A A G G A A G G G A C A A G G A C A A G G G G G T T G E A$ ATAGGAGAGAGCAACAGGAGGAAGAAGAACAGAGGAGGACCA G G GAGAAGGAAGAGGCAAGGAAACCGACCAAAAAAAAAAACC $C \subset C G G A A G G G G A A G G G G T T G A A A A A A A G G G G C C G G A G C A G G A$ G G GAACGAAGGAGGGAGAAACGAAAGAGGAGACAAAGGACGG A A A A A A A GAGGGACCGAGGAAGGAAAGAGAAAAGAGGGAAAG G G G G GCCGGAAAACCGAGGCCGGGGGGAACCAGGGGAGAAAG
 $G G A A C G G A A C C G G C C C C A G A G G G G A G G A G C C A C C A A G G G A C A$

GAGAGAACCAAAAGGAAAAGGAAGGGGGGCAGAGGAGGAGGA G G A G A G A T T G G A GCGGAGAAGGACGGACAAGAGCAGAA G GAG GAAAAGGAAAAGGAAGGAACGGGAGGGAAGGAAGAAAAAAAG GAAGGGAGAAACCGAGAGAGGGGGGACAGAAGGAGAAAAAGA G G G G G A A G G GAAAAACCGGGGAAGAGAGAGGGGAGGAAAGAC A A G GAGGCCAAGGGGAACAGAGGAAAGAAAGGAGGGGGAAAA A A A A A A G A C G G A A A G GAGGAAGAAGGGGGGGCAGAAAAACC G G G G GAA A A A A GCC G G G GAAAAGGTTAGGGGGGGAAGGCAAA G GAAAAAACCGGGAGACCCCGGAACCGGGGAAAAGGGAAAGAA A GAAGACGGGAAAAGGGGGGAGGGGCCGAAAAAAAAAAAGAA A A A CAAAGGGAGGGGCAAAGGGGGGGGAAAAAAAGCCAAAAC C T T G G G G A A GAGAAAGGCCGGACAAAAGGCCAAAACCGAGGC C G G G G G G A A C C G G A A A G A A A G G A A GAA TA C CAAA ACCCAA G G A G G G G C C G G A G G G G G G G A A G G A A C C G A A C A A G G A GA G A G G A A GACAAGGAAAAGGAGAAAGAACAAAGAGGAGCAAAAAAAGAA $A C C G G G G A A G G A A A A C C G G G A A G A A G G A A C G G A G A G A A A G G A$
 AAAGGAAAAAAAAGGGGGGAAGGCCAAAAAAAAAAGGABAAG $G C C G G C A G G C C G G G G G A A A A G A A G G A G A G A A A T A G G G C A A A A$ AAACCAAGACAGAAAAATAAAAAAACCAAGGGGAAGAAAAAG AGACCAAGGAAGGGGAGGGGGGGCCCCGGCCGGAAAAGAAAG AAAACGAACCACCAAAGGGCCCCAAAGCAGGGAACAG
A GAA A $A \operatorname{G} G A G A C \subset A G G G G G A G G A A A A G G G G A G G G C C A G G G A$ GAGAAGGGGAGAAGGGGCCGGCCGGAGGGGAAGGAAGAAAAG GACAACAGAAAGGGGAGACAAAGAGACAGAGAGGGAAGAAAA G G G G G G GAA A A GCGGAAAGAGAGACAAAGAGAAAGGAAACAA CAAAAGGAAAAAGGGAGGGGAAGAGAGACGGAAGGCCAGAAC $A C C G G G G A C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G$ G GAGGGGAAGGCAAAAAAAGGGCAGAACCGGGGAAGAAACAC CAACCAAGGCAAAAAAAGGGGGGGGAGGGGGAAGGAAGAAAC CACGAGAAGGCGGCCGGGGCCGGAACAAAAACCAAAGGAGGA GAAGGCCGGGGGGAAAGGAAAAAGGAAGGGGGAAAGGGGGGA
 GAACCAGGGAGAACAGGGAGGGAAAGGGGCCATGAACCAGAC CAAA A $A \operatorname{G} \operatorname{A} A A A G A G G G G G G G G G G G G A C A A G G G A A A A G G G A A A A$ A A G G G A G A CA GAACCAAAGAGGAAAGGAGAGAAAGAGAAAAB AAAGGGCGGAAGAAAGAGGGGAGGGGACAGGCCAAAAAAAAA $A C C G C A C A A G G G A G G A G A G A A A A A A A G A A C C G A A A A A G A A G B$
 GAAA A A A A A G G A A A A C G GAA A G G G GAGGGGGGA GAA G CAC C G AA GAAGGGAAAGAAGAACAAAAAAAGGGGGAGGAAGGAAGAG $G G A A G G A A A A G G G C A G G A A A A A C G A A A A A A G G A G A G G G G G G G$ GAAGGAAGGAAGGGAAGGATTAGCAGACGGGAAGAAACAGAG A GAGGGGCCGGGAGAAGGAACGACGGGGAAACCGGCCAAAGA A $G G A A G A A G G G A A C C A A G G G G G G G G G G A A G A A A G A A G A A A A G$ G G G A G G A G G G G A G G A G G G A GAC C A G G G A G A G G G A G G G G A A G G GAAGGGAAAGAAAACAGACGAAAGGCCGGAAAAGGGGGACAA A G G A G G G A G G A A G G G A G G G G G A A G G G G G A G G C C G A A G A G G A A GAAAGGGGAAGGGAAAGAAAAAGGGAGGGAAAAGAAACAAAG G G G A A G G T T G A A G A C G G G G GAAA A G G G G GACGAGGAA GAAAA A G G G GCAAAGGGGAACACAGAAAGAAAGGAACCAAGCBGAGC $A C C G G C C G G G G A A G G A G G G G G C C G G A A G G A A G G C C C C A A G A C$ CACA $A \operatorname{A} A G G G G A G G G A G G G A A G G A G A G A A A A G A A A G C C G G C C C$ $C G G G A G C A G G G C C C C G G G G G G A A A A C G A G G G A A G G G G G G C C A$ A G G A G A A G G G G G G G A C A A A G G G G A G G A A GAAGGCCAAA GA GA GAAAACCAAGGGAGGACGGAAGGAGCCGGAAAACCAAGAAAA $A C C G G C C A A C C A A C C G A A T A A A G G A C A A A A G A G A G G G G C G G$ G G G G G G G G G T T A A C C A A G G A G G G A G G G G G G G G G A G A A A A A G T TAAGGGGAAAAAGGGGGAGGGAAAAGGAAAAAAGGGGAAAAC

C GAA A A A GAAAGAGGACAGCAGAAAGAGAAGGAGGGAGAGAC

 ACAGGAAGGAAAAGGCCAACCGAAGAGAACCGGGGAGAACAA $A C C C C A A A A G G G G G G G G A A G G G A A A A A G G A G A A A A A A A A A A G$
 A GAGGGGAAAGGCAGAAAGGGCAGGAGAGGGGGAAAAAAAAT TAAAGAGAGAAGGAAGGCCAAAGCCCCAGGGGAGAAGAAGAA GAACCAGCCGGAGCCAAGGAACCGGGGAGGGAAGGCCGGGGA A G GAAAAAGGGCCGCGGAGACAAGGGGGAGGGAGGCAAGAAC $C \subset C A A G G G A G G G A C C A G G G A G A G A G G A G G G G C A A G A A G G G G G$ GAAAAGGAAGGAACCGACCGGGGGGAGAAAAGGAAAAAACAA CACGGAAAAAAAAGGGGGGAAAAAAGGCAGGAAAAAAGAGAA ACAAAAAGGAAACCAGGGGGGAAAAAGGGGGGGGGGGCAGAA GAGGGGGAAGGGGAGAGAGGGAGGCGGGGAAGGCCGGCAAAA A G GAAAAA A GAAA $A \operatorname{A} A A A G G A G A G A G A C G A A G G G G G C C G A A G A$ GACAGGAGAGGAAGAGGCCAGGAGACCGGAGCCGGAAGAAAG GAGGAAAAAAAAGGGGAACAAAAAAAAAACCAAAGCCGGCCA AAAGGAGGAAAGAAAAGCCGGAGAAAAAAAGGGCGGGAACAA A A A A A GAGGAAAAGGAGCCTAAAGAAGGGGAGAGGAACAGAA AGGGGAAGGAAAAAAAAGACCAAGAGAGGAAGGGAAAGAAAC $C \subset C A A G G G G G G G G A A C C G G A A A G A A G G G G G A A C C C G G G G A G G$ A A A G A G G G G G G G G A A A A A A G G G G A A G G A A C G C C A A G G G G G G G G A A A A A G A G G A A G G A A A GATTGGAGAGAAAAGAAAGGA GAA G G G GAGGAACAAAGCCGAAAAAGAAGACACAGACAAGAAAGAG A G GAGCAAAGGAAAGGGGGGGGAGAAACCGGAAAGGAGGAGA AAA $A \operatorname{GAAAAGAAAAGAAAAAAGGACAAGGGGGGGGAACACAG}$ G G G A G A A A A A A A GAGTAAAGGGAAAATAAACAACCGGCAAAG GAGGGTACCGGGAAAGAAAGGGGGACGGGGGAAAGGAAACCT TGAGAGAGGAAGAGGGGTAGGAACAAGGGAAGACCBAAAGAG G G G G G A C G G A A GAA A A G G G C C G G G A G G G A A G G G A A A A A A G G A AAAGGAAGGGGCAAGGAGGAGAAAACAGGGGAAGGGGGAGAA G G G G A G G G A A A A G G G G G GAGGAAAGGAGAGAGGAGGGCAAAC C GAAGGGCCAAGGGGAAAGGGGGAAAAGAAAAAAAAGGAAAG G G G G G G G G G G GCCAA A G GCC G GAAGGAAAAGGAAAAGGGAAAA $A C C A G C A T T A A A G A A A A A A G G G A G G G G G G A G A A A A A G G A A G G$ G G GAAAAGGGGAGAGCCGGAGCCAAGGCCGGCAAAGGCCACA G GAA $A \operatorname{A} A A G A G G G G G G A A G G A A G A A A G C C G G A G A G G G G A A G A$
 G G G G G GA G A A A A C A GAA A GAGAAGGAGAGCGAAAA GAA GAA G A G GAAAAGAGGAAAACCGGGGAAAAAAAAGGAGCCGGGAAAG A G G A A A G A C A A G A A A G A A A G G A G A GGGCCGAGGAAGAAAACA AGGGACAGAGGGGGGGGGGAGGAAACCGCGGGGCAGGAAGAG G G G G G G G G A C C A G G G A A G G A A A G A A G G A A A G G G CACACA A A G GAAAAAAAACAGGGAAAAGAGGAGGGGGAGAGAGAGGGGGGA $A C C A A G A A A A A G A A A C C A A G G G G A A A A A A A A G G C C C C A T G A G$ GAACCAAGGAAGGCAGAAGGAGAGAAGGGAATAGGGAGGGGG
 CACAAAGCACCACCCAGCCAGCGGGGAACAGAAGAGAAGAGC AC G GAA $A$ G $A \operatorname{GAACCACGGAACAGGAAGAAGAAGGAGGGGAGGG}$ G G G G G A A G A G G G A A G G G G G A A A A G G A G A G A A G G G G C C A G G G G G G G G GCC G A G G GAA A A A A A A A G G G GAGGGGGCCTTACGAAA G GAAG $A \operatorname{AA} A G C C C \subset A A G G G G G G G G G G C \subset A A C C A A G G A G G G G G G$ A GGAAGGCAAGAGGAGACAAAAAAAGGGGAACAGGAGGGAAA GTTGACAAAGAAAGGAAAAGGCCAAAAGGACGGAAAGGGCCG G G G G G G A A GCCCAGAAGAAAGAACCGGACGAAAGGCCAACCB G G G A A A G A G C C A A G G G G G G G G G G G A C C G G G G G G A A G G G G A A A A G G G G A A G G A A A A C C G G A G CA $\mathcal{A} G G G G G G G A A G G C A G A A B A B A$ $A G G A C A G G G A A G A G A G G G A A G G G G G G G G G G G G A G G G G G G G G G$

G G GAATTAAGGAACCGGGAAGACAGAGAAAGGAGGAAAGGGG GAAAAAGCCGGAAAAGGACGGAAGGAAGAAAACAAGGCACCB
 GCA $\operatorname{C} G A A C A A A A A C C A G A G G G A G G G C C A A G G G G G G G G G G G G G$ GAAAAAAAGGGGACGAGGAGGGGGGAGAGGGGGAAAGGAGAA A G G G G A A G G G G A A A GAGGGAACAGGCGGACAAAAGGAAGAAG A G GCAC GAGAATTCCAAGAGGAGAAAAAGAGGGAGGAGAA GA G G G GAAAGGAGCCCAGACAGGGGAAGGAAGCAAGGAAAGAGA
 A GAAAAACCGAAAAACATTACGGCCGACAAAAGAGAACAGGA A G GAAAC $A$ AAAAAAGGGGAGGAAAAGACCGAGGGGAGCAGAA


 G G GAA A A A G GAAAAGGGACGGCCAAAGAAAGCCGAGCAGGGA G G GAAA A G GAA $A \operatorname{G} G \mathrm{G}$ GAAAAAAAAGGGGAAAAAGAAGAAAAGA
 A GAAAGGAAAACCGGGAAACCAGAAGGGGAGAAGAAGAGGGA AAAGGGGGAAAGGCCACCCGAGAGAAAAAACGAAGGAAACCA G GACGAAAGGAGAGGAAAAGGCCAACCGGGGCAAAAAGGGGA AGGGGAAACGGGAAGGGAGAGGGCCAAAAAAGGAAGGCCAAA

$A G G G A G G G G G A G A G C C G G G G A A G G G G G G G G G G A G G G A A G A G$ G G G G G A A G GAAA A A A A A A GATAAAAAGGGAGAGGAAAAAA GA GAGGGGAGGCCGACCCCAAGAAGGGAGGAACAGAGGAAAAAA A A G G GCCAGCGGAGGGAAAGAGAGAGGGGGACCAGCCCAAGG A AAAGAAGGAAGGAACCAGACAGGAGGAAGAGAGAGAAGAAA G GAGGAAAAGGAAGGGGAAACGAAAGGACGGAAAGAAAGGBA GAACCAAAAAAAAGGAGGGGGAAGATAGGGAAGGGGGGAAAA $G G G G A A A G G A A G G G G A G G A G G A A G A A A A G A A A A A C A G A A A A G$ G G G G A G A A C G G A A G G A A A A A A G G G G G G C C G G G G A G A G G G G A G AGAGGCAAAGAAAAGAAGACCAAGGGGGGGAGAGAACAAAGA $C A C G A A G A G G A A A G G A G C A G G C A G G A A G G G G A G A G G G A A G G C$ A G G G G A A A A A A A T A A G G A A A A A GAT GAGGGGCCAGAGGGCCA
 A G G G G A A $\mathcal{A} G G G G G G G G A G G G A A G G A G G A A G G A A G G A A A A C A A$ $A C C G G A A A C A A A G G G A A A G G G C C A A A A G A A A G A G G G G C C G G G$ GAGGAGAGAAGAAAAGGAGGGAAGGAGAGGGGGAAGAATAC G G G G G G A G G G G G A A A A C A A A A A A G G G G G G A G G G G A A A A A GAAA A GACGGACAAGGAAGGGGAGGGAGGGAATAGGGGTTGAAAAAG G G GAGGGGAAAGACCGGAAGGGAAAAAGGGGAAAAAAAAGAG G G A A A G G G A A A G G A A C C A A G G G G G A C C C C G G G G A A A A A A G A G AGGAAGCGGGAAAAAGAAAGGAAAGAAAAGATTGGCCAGAAG $A G G G G G A G G A A G A G G A A G G C C C C G G A A G G G G G G A A G G A G G A A$ A GAGAAAGGAACCGGGGAAGGAATAGGACAAGGGAAABAACA A A A A A A A $\mathcal{A} G G G G G G G A A A G G G G A A G G A A A G G A A A A A A G A A G A$ A A G A G A A C C G G G G G G G G G G G G A A A A G G G A A A A A G G A G A C G A G A G G G A G G G GAA $A \operatorname{A} A A A A A G G G A A A A A G G G C C A G A A G G A G A A A$ A GA A G GAGGCAGAGGGGAGCCAAAGGGCCAGGGGACCGGGGG A G G A G G G G G A G G A A A G G A G A GCGAGCCAGGGAGGAA GA G G G A
 A G GACAAGAAGCAGGGAAAAAGAGGAAGGAAGAGGAGAAAAA A G A A A G G G A A A A C T T C C A G G G G G A A G G G A G A G A G A A A A A A A A AGACAGGAACCAACAAAAGGACAAGAAGGCGGAAGGAAACGG GCAGGGGGGGGCAGACCGGGAGGCCCAAAAGGGAAAGAAAAG GAAAAAAAAGACCAGAGAAAAGAAAAAGGAGGAAAACGAAGA $A C C A A A A A A A G A A G A G G G G C C G G A A A A A A G G A A C A A G G A G G A$
 $C G G G G G A A A A A G G G G G A A A G G A G A G G A A G G G A G G G G G A A A A C$

A ATCCAGGAGACAAAAGAGGAAGCAGGCCAGGGGGGGGGCGA $A G G G G G G G G A G A A G G G G G G A A G A G G A C G A G G G A G G G A A A G G G$ GAAAACCGAGAAAGGAAGGAACCCCAAACAAGGGGGAGAGGA AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A \mathrm{G} G \mathrm{G} G \mathrm{G} G A A G A A G A G G A G A A A G C A G A C A A G G A A$ A G GAGGACCCGGAAAGGAAAAAGAGACGGGGCCAAAAAAACA GAAAAAAGGAAAAAAAAAACCGGGGCAGAGGAGACCACACAA A GAA $A$ A $\operatorname{GAAAAACGACCAAAGAGACGACCAGAACAAGGGGGG}$ GAAGGGGCCAAAAGGCCGAAGAAAGGGAGGGGGAGAAGGGGG G G GAA A GAAAAGAAAGGAAGAGGGGGGCCGGGGAGGGCAAAA G GAA $A \operatorname{GA} A \operatorname{A} G A G G G G A G G A A A G G A G A G C C A A A G G A A G A G G G G$ GAAAGAGCACACAAGAAAAGGGGAAAGAAGGAAAAAGAAAAC A G A A A A A A A GA GAAAAGAGAACCCCGAAGAAAAAAAAAAGAA AAAAGAGGGGGAGCGAGCCAGAAAAAGGAAACACCGAAGAAA GAGAAAGAAAAAGGGAGGGAAAAGGGGGGAAAAATCAGAGAC $C G G A G G A A G A A G G G A G A G G G G G G G G G G A C A A A G A C G A A A A A A$ A A A A GAGCCGGGGACGGGACAGAAAAGGGGAGATTCACCCCG A GACCAAAAAGAGAAAAGAATCCCCGAAGAAAGGAACTXGGG GAGAAGGAAAAAAAAAGGACCAAGGAAGGGGGAGGGGGGGGC A G G GAAAGGGGAAGGAGAAGGCCAGGGGGAAGGAAAAAACAC CAACCGAAGAAGGAAGGAAAAAAAACCAAGGAAGAAACCCCC ACAGGAAGGAAAGGAGACCAAAGAAGGGCGGCAGGGGAAAGG G GAGAGGGAGGAACCAAGACCGGGGGACCAGCACACCAAAAG AAGCCAAGAAAAAGGGAAAACGGGGAGGACCGAAAAAAAGAA GAAAGGGGAAAGGGGCCGGAAAAAAAAAGAGAACCAAAAGGC C GAGGGGAGTTGGGGAAAGGACCGGAAGGGGAAGGAAAAAAC A G G G GCCGAAAAGCAGGAGAGAAAAGGAAGGGAGAAACACAA A G G G G A A A A G G G GCC G G A G GAAAAAAAAAAGGGCACAG GAGC CAAGGCCAGAGGACCAAGGGAAAAAGGGGAGAAAGGAAAGAA G GAGGGGGGAAAAAAGGGGGGAAGGAAAAAAGGGGAGAAGAA GAGGGAAGGGGGGCAAAAAAGCAGAAGACCAGAGGGAAAAAA AAAAAGACAGGGGCCCCAAGACCGGAGGGGGTTAGGACCGGG G GAAACCGGGAGGGAAAAGAGAAAAAGGGAGAGAGGAGAGAA GAA $A \operatorname{GAA} A A G G G G G G T T A A A A C C G G A A A G G G G G A A G A A G G A A$
 A G GAA A G G G GACC GAGAGAGAGGAGCACCAACCAAGGGGGGC A A GAA A G G GCCAAA A C C C G G GAA A G G GAAA G G G GAA G G G GAA A AAAGGGGAAGACAATCAGAGGGGGAGGGGGAGGAAAGGAAAG GAAACGGGGAAACACAAAAAAAAAAAAGAACAGAGAAAAGGA GAAAAGGAAGGAAAAAGAAAAAGAGACAGAACAAGAGCAAAA AAA A A G G G GAAAAAGGGGGAAAAGGAAAGAGGGAAAGAGAAA AGGCCAAAAAAGGGGAAAAATGGGGGAGGAGAAGGAAAAAAG GAAAAGGGGAAGGGGGAACAGAAGAGAGGCCGGGGGGAAAAC $C C C T T A G A A G G A G A A A A T T A A A G G G A A G G A G A A A G C C A G G G A$ GAGACCGAGAAAGAAGACCGGGAGAGACAACAGGGAGACGGG GGAAAGAACAAAGGGAAGGCCAACCAGACAGAGAAAGGAGAG G G GACGAAAGGGGAAAAGGAAAAAAAAGGGGCCAAGGAAAAG G G G G G G GAAGGAACCGGAAAAGGAAGGCCAAAAGGGGGAAAG GAAGGAAAAGGAAGGGGGGGGAAGGGGCCCCGGAAGGAAAAC CAAAACCGGAAAAGGGGAAGGGGGGCCAAGGAAAAAAGAAAG GAACCAAAAAAAAAAAACCCCAGAGACGGAAGAAAAAAGGGA AACAAGGGGGGAGGGGGAAAAGGAAAAGGAAAGGGAAACAAA
 G G G G G G GAGAAGGAAGGAAGGGGAAAAGAGAACCAAGAAAAG G G G G G A A A G GA $\operatorname{A} G A A G G A A A A A A G G A A A C A G A A A G A G G A C C G$ G GGCCAAAGGAAACAAACCGGAAACGAAAGGAGAAGGCAAAG
 AAAGGAAAAAAGGAGGGAAAACCGAAGGGGGAGAGGGGAAAA GGGAAAACCCCAACCGGAAGGAAGGACGAAATACAGGGAAAA $A A A C C G G G G A A G A A A C G A A G A C A C C G G A C A A A A G G G A A G A G G$

GAAAAGGAGAAGAACCCGGCCAGGGAAGGAAGGGGAGCCGGG GAGGACCCAAAGGAAGAGACAAAAAGGAACCCCGGAAGAAAA A G G A A C C G GAAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G C C G G A A G G A A C C G G A G G G G A A A A$ A A G G G G GAGAGGGGGCAGAAATAAAGAGGGAGAAGAGGGGGC A G GAAGGCCCCGGCCGGCCGGGGGGGGAAAGAGGACAAAAGG GACGGAGAAAGAACCGGGAAGAACCCCGAGGGAGGCCCAAAA AAAAAGGCAAAGAACAGGAAGGGGGGGGAAGGGAAAAAAGGG A G G A A G G G G G G G GAAAA A A A A A C C G G G G G G G GAA A GA A A A A A A GAGAAGGAGGGAAGAGAGGGGAGGAAAGGGGGGGGAAAAAAA AAAGGAAGAGAGAGGCCGGGAAGGAAGGAGGAAAGAGGGGGG G G G G G G G A G A G A G G A G G A G G G A G A G GAGGAAGAAAAAA AA A A
 G G GCCAAAGAAGGGGCGAGAGGGCAGGAACCGGGAGAAGAGG $G C C G G A A A A A A A A G G A G G G A A A A A C A G A A G A G A A A A G A G C A G$ G G G G GAAAAAACCACCCAGCCCACCAAAGAAAAGGAAAAATA GAGGGGGGGAAGGGAAAAAGGAAAGAAAGTTGAAGAAGGGGG
 A A A G G G G G GCCAGAGGAGGAAAGCCGGGGCCAAGAGGGAAGA ACCAAGACCACACCACAAAAAAAAGAAAGAAAAGAGAAAAGGG G T T G G G G C C G G A G G A C C A G A G G G G A A G A A A A G GA G G G C C A A G $A C C G A G G A A A A C C C C G G A A A G A A G G G G C C A A C C C A G G A A G A G$ GAAAGGGAAGGGAAGCCGGAACCGGGGGAGAAACAAG
G GCC G G A C G G A A G G G G G G A A G G G G G G A A C C G G G G G GAAA A $\mathcal{A}$ GAAAAGGCCGGGAGAAAGGGGGGGAAAGAAGGGAAAAAAGGG GAGACAGAAGAGAAAGGAGAAAGAGAAGGGGAAAGCCAA GAA A G GAGAGAAGAGGCCGGAAGGAAAAGGAAGGGAAAAGCAGAA A G GA $\operatorname{A} A \mathrm{~A}$ A GAGAGAACCGGGGAAAACCAAGGCCAGAGCAGAC $C \subset C A G G A A A G G G G A A G G G A G G A A G A A A G G A A G G G G A C G E C C A$ A A G G G A A G G A A G G A A A G G G G A A G G G G G A A GAGGAGCAAAAAA $A G G G A G A G A G G A G G G A G A G G G G G G G A G A G A G G A G G G G G A A G A$ G GAA A G G G A G G A G G G A G G G A A A G A A G G G A G A G G G A G G G A G G A AAGAGAGGAGAGGAAGAAGAAAAAAAAGGCCGGAAGGGGAAG GCCAGAGGAAAAAAAAAAAGAGGGGCAGACCCCGGGGAGGAA G G G A A G G A A A A C C G G G G G G G G A A C C C C A A A G G G G GA G G GAA $\mathcal{A}$ G G G A A G G A A A G G G G A G G A C G A G A G G A GAC GAA A GAAAAAA A A A G GAAAAGGGAAGGGAAAAGGGAAAGGAACCGGGGAAAGAGC A G GCCAAAAGGGGGGGGAGAGGAGGGAAAAAGACAAAGGGGA A G GAA A G G GAGGAGAGGGGCAAAAAACAAGGAGGGAAGAAGG

 G G A A G A G G G A A G G G GCAGGGGAAGGCCCAAGGGCCGAAC G GA GACAA $A$ A A A A G GAGGAAAGAAACCGGAAAAGGAAAAAGGGGGG GCCAGAAGGAAAAGGAGGAGAGGAAAGGGGAAGAAAGAGGAC A G A A G G A G G G GCCA $\mathcal{A} A \operatorname{A} G A G A G G G G G A G G G G G G C A A G A G A A G$ A G G G G A G A GAAAA A $A \operatorname{AGGGGAAGGGAAAAAAAAAAAGGAAGAA}$ A A A G G A A A G G GAGCAGGGGAGAAATGGAAGGGGAAAGACAC G G G GAA A ATTGACAAATTAGCAGGGGAACCGAGAAAAAAAAAG GAAGGGGAAGGCCGGGGGGAAGGGGGGACGAAAAACCGACCA GCAGGAAGGAAGAGGGGAAAACAAAGGGGAGCACACCCAGAA $A \subset C G A A A G G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A$ A A A G G G A G A G A A A A G G A G G G G G G G G G GCCAAC GAT GAAC A A G G G G GAGGAGAAGGAAGGAACCAGAAAGCCGAGAAAAAAGAAA G G G A A G G C C G G GA $A \operatorname{GA} A G G G A G A A A A G G G G C C G G A A G A A A A A G$ GAACACCAAGGAGAGAGGGATAAAGAGGAATAGAAAACAAAA AAAAAGGGAACGAGGAAAAGGAGACGAAAAGGGGAGGGAGAG GAAGGAGAGGGCAGGGGCACCGAAAGGGGAACGTTAAGAGGG GAAAAGAAGGAGGAAGGGGGAACAGAGAGAAAGAGCCAGAAA $A G G C A G G A G G A C C A A A G A G G A A G A A A G G G A A G A G A C C T T G A G$ AAGACAAAAGGGACCAGAAAGAAGGAAGGAACCAAAAGAAAG

GAACCGGGGGGAAAGAAGGCCAAGAAAAGGAAAAACAGGGGA $A G G C C A A G G G A C A G A G G A G G G A A A G G A A G C C G G G G G A A A A B A$ G G G G G G G A A A G GA G GAAA $A \operatorname{A} G A A A G G A G G A G A A G A G G G G A A A A$ G G GAGAAAGAGAGGAGAAGCCGAAGAAGGAAGGGAACAACAA GCAGGGAAAACAAGAAGGGAGAGGGAAGAAAGGGAAGAGAAA A A GA $A$ A A C C A G G G A GAGAGAGGGAGGGGAGGGAAGAGCAAAA GAGGGACGGGGAAGGGGAGACGGAAAAAAGGGGGGAAAACCC C G GAA $\operatorname{G}$ GAAGGCCAAGGAACCAAACAGAGGAGAAGAACACCA $A C C A A C C A G G G G G A A G A C A G A C A G G G G A A C C A A A A A A G G G G A$ AGGGGAAGAAAAGCCGGAGCCGGGAAAGGGGACAAGGCCGGA A G G G G G G A A A A A A A A A A A A A A G G G G G GAA $A \operatorname{GAAAAAAAAGGGGG}$ G G G G G G G A A G G A A C C G GAAAA $A \operatorname{ACC} C G G G G A A A A A A G G G G G G G$ G G G G G G G G G G G A A G GAA A GAA $A \operatorname{AGAAAAAAAAGGGGAAAAAAA~}$ A G G G G A A A A G GCC G GAAAA A C CAA A GTTGGAAGGGGGAAAG G T TAACCCCAAGGAAGGAAAAGGAAAAGGAAGGCCAACCCAAAG G G G G G A A G G G G G G G G G GC C G G G G G G A A A A G GAA A G A A G G G G A A A A A A A A G G G G A A A A A A A A G G G G A A G GC C G G C C A A G G G G G G G GAA A G G G G G G G G G T T A A A A $\mathcal{A} G G G G G G G G G G G G G G G G G G A A A C$ CAAGGGGAAAAGGAAAAAAGGGGGGGGGGCCCCAAGAAACAA A G G A A G G C C A A C CAAAAAAAGGGGGGAAAAGGAACCAAGAAAG $G C C A A C C A A G G A A A A G G A A G G C C G G G G A A G G C C A A G G G G G G G$ GAA A G G G G GCCGGGGGGGGAACCGGAAGGGGCCAAGGGGGGA A G G G G G GAA $A \operatorname{GGG} A A A A G G A A A A A A C C G G G A G G A A A G A A G A A$ GAAAA A $A \operatorname{A} A G A A A C G G G G G G G A G G G G A G G G C C A A A A G G G A G A A$ GACGAGGAGAAGGAGAGAAGGCCGGAAGGGAGAGGGAGAGBC A GAGGAAAGGGGAAAAAAAAGGAACAGGAGGGAAGGGGGGGG AACGGAAGGAAGGAAAATTGGGGAAGGGGGGGAAGGAAAGAA G GAACAAGAGGGGACGGGGGGGAAAGGAGCCGGGGCCGAGAA C C C A A A A G G G G G A G G A G A G G G G G G A GAGGAAGGG GAA GAA G G GGGAAAGAAAAAAAATTCCAGAAAAGGACGGAAAAAAAAAAG G G G G G A A G G G G G G G G G G G C G G G G A A A A G G A A A A G G A A C C A A A A G G G G A A A A A A A A A A G GAAAA $A \operatorname{A} G \mathrm{G} G A A G G A A G G A A G G C A A A G$ GAACCGACCAAGGAACCAGGGGGGGAACCGAGAAGGGGAAGA A A GAGCCAAAGAGAAAGGGGGCCGGCCAAGGAAGAAAAAGGG G G G GAAGCCAGAGGGCCGGGGAACCAAGGGATTAAAAAAGGA A GAA A A A A $A \operatorname{AGGAGGGAGAGGGGAGGAGCCGGAGCAGGAAGAA}$ G GAGGGAAAGAGGGAAAGGCCGGTTAAAGAGAAGACAGAAAA A GAGGGGAAGGAAAAGGAAGGGAAGAAGAGGCCGAAAGAAGC AAGGGCCGGCCCAAAGAGAAGACCCGAAAAAAAAAGGGGAGG GAACCAAAGCCGGGGGAAAGAGGAAGGAAGAAAGGCAAAAAA G G G A G G G G A A A A A G G G GCC G G C C G G G G G G G G G G G GAC GAAA A CACGAGGAAAAGAGGCCAGGGGGGAAGGAAAGACAGAAAGGA C GAA A TAAAAGGGGGGGACGGAAAGAAAAGGCAGGGGGAAAA A G GAAGGCCGGAAAAGGACGAGGAACCACACAAACAAGAGAA GAAAGGGGGAAGACCGGGGAAGAAAGGGAGAAAAGAAAAAAA A G G G G G G G GA $\operatorname{A}$ AAAAAAGAAAAAAGGGGAACCCCAACAAGCAA ACCAAAGGAAAGGGAGGGGGGAAAAGGAAGAAGCCCCGAAAAA A G G G G A G A CAA A GAAGGGGCCGGCCGGCCCCGGAAGGAAAAG G G GAAAAGGCCAAGAGGGGGGATGGAAAAAAAAGAGGGGGGG A A G A A A A G G G G G G T T A A G G G G G G G GAAAAAA A G GA GAA GA GAA G GAA A A A G GAGAGGAAAAAGGGGAAGAAAGAGGGGAGGAGAG G GAAAACAACCAAAGAGGGGGAGAAGGAAGGAAAAAACAGGG GAACCGGAAAACCCCAAGGGGAACCAAAAAAAAAAAAGAAAG GGGAACCCAAAAACCCCAAAGAAGAAACCGAGGGGGGGGAAA $A C C G A A C A G A C A A G G G G C A A A A A G A A A G G G A G G G G G A A G A A C$ C G A A A C A A GAGGA GAGGAAACGGCCGGGGGGGAGACAGAAAA A G G G GAAA A GAGGCCAAGGAAAAAAAAGAGGAAGGAACAGAA $A \subset A C C G G G G G G G A A G A G G A A A A A G G G A A A A G A G G G G A A G G G G$ AAAGGGAGGAAAGGAAGAAAACAAAGAGGAAGGAACCCCGAG

A G GAAA A A G GAAGGGAGAAAAAAGGAGAAGGCAGGGGGAGBA
 GAAGGCCAGAGAACCGGAAAAAGCCACAAACAAAAGGGGGGG GAACCAACCGGGGGGGGAAAACCGAAAAAAACCGGAAGGGGC $C G A G A A G A A G A G G A G C A G G T T G G A G G G A G G G A G A G G G C A A A G$ A GAA A G GACGGAAGGAGAAGGGGAAAGGGCCAGGGCCAGAAG GAGAGGAGAGGGCACAGGGGGAAAGGAGGGAGAGGAAAGAGG A G A A A A A G GA GAG $A \operatorname{GGG} G A G G C A A A A A C G G G G C A A G G A G G G G C$ CAAACGGGAAGGCGGTTAGAAAAGGGGCAAAGGAGBAACCCG GAAGAAAAGAAAGCCGGAAAAGGAGAGGGGGAGGGAGCAAGG A G G G G A A A A A A A GCCAAGGAAAAGGCCAAAAAAAAGGGGCCA AAACCGGAAGGGGGAAACACCGAGGAAGGAAGGGGAAAAAAA A A A A A GAGGAGAAGACAGAGGGGGGCCAGCCAGAGAAAAACG A A A G A A G G G G G A A A A $\mathcal{A} G G A C C A A G G A A G G G G G A A A A A G G G G C$ C C C G G A A A A G G A A G GAGGAAGAGAGGAAAGAGGGGAAG GTTA A GAGGGGAAAGAAAGAAAGGAAACCAAACAAAACCGAGGGGG GCCGAAAAGAAAGAACCGAGAGGCCGGAAAGGGAGAAGAAAC A A C A A A A A GCCGGCAGGGGCAGACCAAAAGGCACAGGGAAGAA GAAGGAATTAGAGCCCCCAACAGGAGGAAACGGAGAGCAGAG $A C C A A G G G G A G A A A A A A G G A G A G A A G G G G G G G G A A C A A A G A A$ G G GAAGGGGAGAAAAAAAAGAGACCGGAGAAACGAAACAAGC C G G T T A A G G G G G G G G A A G G A A G G A A A A G G G G A A G G G G
CAAAGAAGAAGAGAAGAAGGAGAACGGGAAAGAGAGAAAGA GAGAAAAGGACACAAAACCGAGGGGGGGGGAGGGGATAAAAA ACCGGGGAGAACCGGGGGACCAGAGGGGACCAGAGAAAACAG GAAAAAGACAAGGAGAGAAAGAAAGGAAAGACCAGACAAGGG GAACCGGAGGAAGGAGAAAGGAAACGGTAAAAAGGAAGAAAG
 ACAGGGGGGGAACAAAAAGTTAAAAAAGGGGGGAGAAAAAAA AGAGGAAAAAACCAAGGGACAGGAGAAAAAGAAAACCCCGGA A A A A A G G G G G G G A G A C C GAGGAAAAAAAA AGGGAAGGCCGGC CAAGGGGGGAAAAGGAAAACAGGGGCAAGGAAGGGAAAAAAA A G GCCCGAAAGGAGAGGGGGGGGGGAAGGGACCAAGAAAGAC G G G G G G A A GAGAAAGCCCAACGGAAAAAAGGACAAGAAAAAG A A G GCGAGGAAAAGGAAGAGGGGGAAGCCGAAAGAAGAAGAA GAGCCAAAAGAAAGAGGACAAACGGGGAGGACAGAGAGGGGA A A G G G G GAAAAAAGGGGAGAAGGGGGAAAAGGGGA GAAAGGG GAAAACCAATTAACCCGTTACAGGGGGACGAGACAGAAAAGAA GCAAAACAAGGGGAAGAGGGGGGCAGCGGCAGGTTCCGGGAG
 G G G G G GAGGAAGGAAAGAGGGCCGGAAAGAAAGACAAAAGGA A A A A C A C A A G G G A A A G G G G GACCGAAGCCTAAGGGAGAAGGG GAGAAAAGAAGGGGGGAAGGGAGGAGAGGGGAAGAAAGGGGG GACGGAGGCGGGGGGAAAAAGAAAAAGAGGGAAAGAGAGAAG GAGAAAGAGGGAACCGGCCGGAGGACCACGGGAGGAAAAAAC A A A G GCC G GAAGGAGGGCCAACCGGGGAAGAGACCAACAAAG G G G G G C A A G G G C A G G G G C C T T G G G G G G G G C A A C G GAA G G G G A A GAGGGACCAAAAAAGGCCGGAGGGAAAAGAGGAACAGAAAC CAACCCAAAAAAAAGCAGAAAAAGGAAGAAGGGAGTAGGGAA GCACGGGAAGGAAGGAAAGAGGGGAGGGGGGGGAAGGGAAAA AACGGAGAAAAAGGGGACCGGAAGGAAGAAAAACCAAAAAAG G G G G GAAACAAAAGGAGGAAAAAAGCAAAAAAAATAGAAAGA GACAAGGGAAAAAGGGAATGAAGCAGAAGGACAAGAAAAAGB A A A A A A ACCGAAAGGAAGGACCCAAAAGGGGAAGGGGGGAAG A G GAAAAAAAAAAGGCAAGCCGAAAAAAAGGGGAAAAGAAAA G G G G G A A A G A C G G G G G G G G C A G A G A A A A A A A C C A G A A G G G G G GAAA $A$ A A $\operatorname{A} A A G G A G G A A A A A G G G G A A A A G A G A G G A G G G G A G A G$
 AAGAGAAAAGGGGAAAAGGGGGGGAAAGGCCCCCCAAAACCC
$C \subset C G G A A A A A A A A G G C C A A A G A A G G C C G G G A T A G G A G A A G G C$

 A A A GAGGGAGAAGGAGGCCAAAAAAGGAAGGAAGAAAGGGGG GAAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G GAA $A \operatorname{GAA} A G A A A G A A G G A A A G A G G G G G A A C C A G A A G$ GAAGGAAAAGGAAAAGGAAACAGACAGAGAGAGCCGGGGCCA G G G GAGACCGGGGAAAAGGAAGAGGAAAAGGGGAA GACCGGG G G G A A A A G G G G C C G G G G G G A A G G G G G G C C A G A A C C G A G G A A A AAAAAACCCGGAAGGAGACCCGGAACCAACCAAGGGGGGGGA A G GAAACAAAAAAGGAAGGGGAGCCAGCCGGGGGGCCAGGAG G G G G G G G G G G G A G A A A A C C A T G G G A G G C A A A A G A G G G G A A A $G$ G G G G G G G A A G G A A A C A A G G GAA A G G G GCC G GAA A GA G G G G A G
 G GAAAAAGGGGGGAAAACCGGGGAAAAAAAGAAGAAAGGGGA A GAAAGGACGAGGGGAAGGAGGGAGAGAGAAAACCGAGAAGG G G GAA $\operatorname{A} G C C A C G G A G A A A G C A A A A G C G A A G A A G G A A G G A A G A$ G G G A A G G A A G G A A GACAGGCCCCGACCACGGGGGGGGGACAA $G G G G A G A A G A G A C G G C G G A G G A C C C G G G A A A A A C C A A C A A G G$
 G G GAAACGGAAAAGAGAAGGGCAAAGGAAAAAGCACAGGAGA GAAGGGGGACCAAGGCCAGGGAAAACCAAGGAAGGGGAAGAA A G G A A A A G G GAA $A \operatorname{GGA} C A A A A G G A A G G A A A A A A G A A G C A A G G$
 G G G G G GAAAGGCCGAAAGGAAGGAAGGAGAAAAGGGAAAAAG A G G GAAAGGGGGGAACCAAAAGGAAAAAAGAAGAAGAAGGGA AACGACCAAGGACGGCCAGTTAGGGGGGGAAAAAAGGGGGGG

 GAAGGAAAGAGGAAAAAGAGAGGAGAGAAAAGGAAACGGGGA
 $C G G A G G G G G G G A C G G C A G A G G A T A A G G A A G G A A G A G A G A A A G$ G G GCCGGAGGGGGAGGAGACCAAGGGGGGCCCCAACAAAAAAA A A G G A G A A A A A GACCAAGAAACCAAGGAAAAAAAAAAGAA GA
 A A A G G GAA A CAA $A \operatorname{AGGGGTAGGCAAAAGAGGGGGGGGGGAGAA}$
 A GGAAAAAACCAAAAAAGGAAAAAAGAAAGGAAGGAAGGGGA G G G GAA $A$ A A A GAGAAGAGAAACCAAAAAAAAACCAGGAGBAAA GAGACGACAGGGGACGAAAGACAGGAAAGAAGAAAGGAAAAA $A G G G G A G A A A G G G A A A A A A G A A G A A G G G A G G A A G G C C A G G G G$
 AAAAGAAGAAAGGAAAAAGGGAAAGTAAAGGAGAAAACACAA A G GAAAAAGGGCAGGCCAGAAGAAAAAAAGGCAGGGGAAAAA
 GAGGAAAAGCGGGAAAAAAGGGGAGGAAAAAGAGGGGTACAG G G G G G A G G A G G G G G G G A A A G G A A A G G G G G G G C C G G C C C G A A G GAAGAAGAAGGAAAAGAAAGGAAGAAACCAGACCAGGAGGGG GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGGGAGCAGAAAGAAGAAACCAGAAGAAAAGGGGCCGGC CAATAAGAAAGAACAAGAAAACGGAAAGGAAGGAAAACAGGA GGAGCCCGGCAGGAAAACCAACCGAGGAGAGAAAGGCCAAAA A G G A A G G A A G G C C T A A G A G G G G G A G A G A A G G A A A A G G A A A G G GAAGGAAGGAAAAGGGGGGCCAAGGGGAAGGAAACGGCCGGG GAAAAGGAGGAGAGGAACCGGGAAGACGAGACCGAAGGGGGA G G G G G A G A A A ACCCGCACAAGGGAGGAAAAAAAAAAAGACAA GAGAGCACCAAAAAAGGCCAAAAAACAACAAAAAAAAAATTG GAAGAAAAAAAAAGAGGGAAGAGGAGAGGAGCABAAGGAGGA $A \subset A A A G G G G A A G A C C G G C C A A G A A A G G G G A A A G G G A A A A A A G$

GAAAAGGGGGGAAGGTTAAGGGGCCGGCCGGCCCCCCAAAAA A G G A A A A G G G G G G A A G G G G A A T TCCCCCCAAAACCCCAAG GA AGGCCGGACAGAGGAAGAAACAGCAGGGACCGGGAAAGAGAA

 A A A G G A A A A C CA $A \operatorname{GAGGGGCCGGGGATAGCCGGAGCCAGAAG}$ AACAACCAAAAGAAAGGAGGAAAAGAGAGAAAAAAAAGGGAA ATTAAGAGGGGAAGGAAGGGGGGAAGGGGGGAAAAAAGGGGG
 GAAAAAAAAAAGGAAAAAAAAGGGGAAGAAGGAAAGAAAGAG A G G T T G GAAAGAAACCCGGCCCAGAAGGGGGGGAGAGAAGAA A A A $\mathcal{A} G G G G G G G A A A A A A G G G G G G G G A A A A A G G G G G G A A A A A A$ A G G G G A A G G A G A A G G G G G G A A A A A A GAAAAA $A$ A A A A G G C C G G G GAAGGGGAAGAGGAAGGAACCGAAGAAGAACAAACGAAAGAA AAGAAATGGTTGAAAGAGAGGGAAAAGGACGCGGAAGAATTA
 A A A A A C C A A G G G G A A A A C CAA $A \operatorname{AGGGGGGGAAAAAAAGGGAGA}$ CAAACAAGACAAGACCAAGAAACGGAGAAAAGGAACCBGCAG ACAAAGGCCGGAGGAAAGGGGAGAAGGGGGGGGGAAGAAGAC AAAGGGGGGAACCGGAGAGAGAACCAGCACAGGAAAAGCGGA A G G G GCCGGGGAGAGGGCAGAGGAAAGGGAAGGAAAAGAAAG GAAGGGGCCAAGGGGAGGGCCCCCCAAGAAACAGAGG
A GCC G G G G G GCCCAGGGGACGGGAGGAACCAACCCCCACCG GAAGGAAAAGGAAAAAACCAGGGAGAAAAAAAAGGCCAAGAG G G G G G T T A A A A G G A A G G A A A A G G A A G G G G G GAAAA A G A C G A A A A A G G G G G G G G G GAGGGAGGGGGAAAAGAAAGGGGAAAA GAA AAAAGGGGACAGGGGGAGGAAGGAGCCGGAAGGCCGACAACB GAACCACAAAAGAAACCGAGAAGAAAAGGAAGGAAGAAAAAA A G G A A C A A A A G GAGGGGAAGGAGAAAGAACCGAGGAAGAAGA GAAGAAGAAAAAGAGCCAAGGCCAGAGGAGAGGGAGGGAAGA A A A G G A A A G A C A A A G A G A G A A G G A G C CA G A A G A G G A A A C C C G GGGAGAAAACCGGCCGGAAAAGAAAAAAACCAAGGGGAAAAA A A A A A A A G G G A G G A A A A A A A G GAA A A A G G GAGGGGC GA GA G C A A A A A A A G GCCCC C $C$ G G G G G G G A G G A A G A A G G A A G A GAA A A G G GCAAGGGGAGAAACCAAAAAGAGAAGGGGAAGGGGCAAGCAA A A A A G A A G GCCTTGGGGCCCCGGAAGGGGGGGGAAGGGAAAG G G G G G G GACGGAGGAAGATGAGGGGGGGAGAGCGGAAAAGAA AAA A GAAGGAAAAGGGGGGAAGAGGAGGGGAGGGAGGGGAAA GAGAGAACACCGAGGGGAAGGAAGGGGGGAAAAAAGGAACAC A G G A C T T C G A G A G A GAGAA $A \operatorname{AGGGAAGGGGAAGGAAAGAACAA}$ AAGACAAGAGGGGAAAACCGAGGGGGGAAGGAGAAGGAAAAG G G A G G A A A A G G G G G G A A G GCCGGCAGGAGGCGGGGAAGGAGG GAGGAAGCCAGGGGACCAAAAAAAAGAGACAAGGAAGGGAAA $A T T A A G G G G A A A C A A A G G G G G G G G G A A A A G G A G A G A A G G G G A$ A A A A A A A G GAGCC GAA A A A GAGGCCCACCAAAAAGAAAGCAA $T G G C A A T G G G C A A C C A G A G G G A A A A G G A A G G G G A A A A C A A A G$
 A G GAAA A CAA $A \operatorname{A} G A A A A G A G G G A A G G G A A A A G A A A A A A G G A A A$ A G GA $\operatorname{A} A A G A C C G G G A A A T T G G G G A A A A G G G G G G G G A A G A A A G$ GAAGGGGAGAGGGGGCCGAAGGGGGAGAAAAAAAAAGCCGGG GAAAAAAAAGGGGGGGGGGCCGGAAGGGGAACCCCCCAAAGG AA G GAACAAAAAGAGAGCCAAAAAACCCAGAAAAAAAAAGGG G G G G G A A G G G G GAA A A G C C G A A GAAAAAAGGGAAGGGGAGAA TAAAAGGAAGGAAGAGAAAGGAAGGGGAAAGGGAAAAAAAAA G G GAGAAAAGGGACCCAAGAAGGCAGAAACCCCAAACGAAAG GA GAA $\operatorname{A} G A A A A A A A G A G A A A G A C A G C C A A G A A A A A A A G G G G G$ GAGAGAACCAAAGCACCGGAAAGGAGAGGACCAAGACGAAAG G G G A A C C A A GAACGGGGGGGGAAAGGGAAAGAGCGAAAACAG A GAGAGGGAAAAAAAGAAGGAACAGGGAGTTGGGAAAGACGC

C CAAACCGGAAGGAACCAAGAAGAAAAAAAAAAGGAGAAGAA A A G G G G G G A G G A C A A G G A A A A A GAAAAA A G G G GA GAAAA A A G A G GAAAGGAAGCAGGGGCCGACAGATAAAAAAAAGGAGGGGC C G G G G G GAACC GAAAGGGAGGAGAATTAAAAGGAGAGAACAA AAGCCAAGGGAGGGGAGAAGGGGGGAGGGCAAGAAAACCGGG $G C C A A A A G A A A A A A A G G A A G G A A G A C A G G C A A G G A A A A A G A C$ C C A A G GAGAACAGGGAAGGCCACAGGGGAAGGGAAGGGAGAA A G G A A A A A A A A A A G G G GAAAGGGAAGGGGCCCCAGAAGGCCA GTAGAAAAAGGAAGGGGAACCGGGAGGAACCAGAGAAAAGGG GAAGAGGGGGAAGGCACAGGGAACCGAAAAACCCCGAAACCT A A GAGAA $A \operatorname{A} \operatorname{A} A A A A A G A A A G G G G A T T A A A A G G G G G G A G A A A G G$ G G GCCA $C$ G $\mathcal{C} A G \operatorname{A} A A A A G G G G G G A A G G C C G G G G G G A A G G A A G A G$
 $A C C G G A A A A C C G G A A G G G G C A G G G G A A G G C C A A A G G A G A A A G$ GAAGAAAAAATAGGGAGAAGGCCGGAAAGGAGGAGGAACGAA A GAAA A G G GAC G GAAAGAGGGGGACCAGAAGAAAAGGGAAAG G G GAA A G G GACAGAAAGGAGAGGGGGGAAGGAAAAGAGAAAA $A C C A A G G A A A A G G G A G A A G C A A G G A A C G A G A A A A A A A G A C A A$ A G G G GAAAACACCAACCGGAAGAAGGGAGAGAAGGAAAAGGG G G G G G A A C C G G G G G G G A A A G G C C G G G G G A C C A G A GA G G GAC G $A G G G G G G G G G G A A A A G G A A A G G A A A A G G G A G A A A G A A G B C C A$ AACGGAAGAGGAGAGGGAAAAAAGGGAGGAAAAAAGGAGAAG G G G G G A A G G A A G G C C A G A A A A G G A A G G G G G C G G G G A G A G G G A C G GCC G G G A G G A GACAAATAAGAACAA G G G G G G G G G G G G GA C G GAAAGAAGGGGCCGAAGAAAGAGAGAAGGAAGGAAAAAAA GA $C \subset C G G G G A C G G G A A G A G G A A A A A G G C C G G A A A A A A A A C G G G A$ A G GAGCCGAAAACCAGGGGGGCCAACCGGGGGGGGAGGGAGG
 $G G G C C A G A A G G A G A A A A G G T T G G A A G G C C A A G G G G G G G A A A C$ C G G G G G GCCCCAAACGAAAAAGGGGAACAGGAGAGGGGAAAA CTACAAACCACAAAGAACGGAAAAGCCGGGAGAAGAGGAAAC CAAAAAAGGAAACGGAAAGGAGGGAAAGGGAAACCCCAAAAG G G GCCAAACAAGGACGAAAGGGAGAGAAGGAAACCAGCAAAG $A C C G G G G G G G G C A A A C A G A C C A G G G A A G G A A G G A A G G G G G G G$ GAACCAACCGGAGAAGAAGGAAAAAGGAAGGAAAAGGGGCCG $G C C C C A A G G A G A G G G G G G A G G G A G G A A A G G A A C A A C C A G A A A$ A G GAAAAAAAAGGAACCGGTTAAAAGGGGGGGGAAAAGAAAA A G GAA A G G G G G G GAACCAA $A \operatorname{A} G A A G G A A A A G G A A A A G G G G G G G$ GAACCAAAAAAGGAAAAAAAAGGGGGGGGAAAAGGGGAAAAA A G GCCAA $\mathcal{C} G C C G G A A A A G G A A G G C C C C G G G G G G G G G A A A A A G$ G G G A A G G A A C C A A A A G GAA A GAAGGCCGGGGGGAA G G C C G G A A A A G G G G C C C C A A G G A A A A A A $\mathcal{A} G G G G G G G A A G G G G G A A A G A A$
 G GAGGAAAGAGAGAAGGAAAGAAGGGAGGAGCAGGGGAAGAA
 G TATTXCGGGACCAGGGAAAAGGAAGGAAATAGGGGAAAGAA GAAGGGGAGAAGGGGGGGGCCGGGAGAGAAAACGAAGAGGGA
 G GAAAGGAAGAAACCGGAAAGAAAAAGAGGGGGAGAAAAGAA G G GACGGGGCAGAGAAGAGGGAAGGGGGGGGAAAAGGAGGGC A G GAAAAAGAGAGGAAGAAAGGAAGAAAGGGAGCAAGAAAAA AAAAAAAGGAGGGGACCACGGAGGAGAGGGAAGACACAGAGA A A G G A G A G G G G G G C C A A A A G G G A G G C A A G G A A A A A A A G G A A G GCCACGAGGACGGAAAGAGGGGGAGAACCGGAAGAGAAGCAA A GAA A A A G GAGCAACAGAAAAGAGGAAAAGGGGGGCAAAGAC C C C G G C A A C A A GAA A G GAA $A \operatorname{AGGAGGGAAGGAAAAAGAGAAGA}$ A G G G G A A A A G A G GCCGGGGCAAGAAGAAGAGGA GA GGGACA G $G C \subset G G G G A A A G G A G C A C G A G A G G G G A G G A G G A A G A C C G A A C A$ GACAGATAAAAAAAACCGGAAGAGAAAGGAAGGGGCCTXGGG

GAGGGGAGGGGAGGGAAAGCCAAAGCCAGGAAAAATTAAAAA A G G A A G G A A A G A G G A A A A A GAAAAGGAGAAAGAGGAACCCCC CAAGACCGGAAGAGGAAGAGGAAGAAAAAGGAACCGGGAAAA A A GAAAAAAAAGACAGAGGAGGGAACCAAGGCCAGGGGAAAA A G GAAAAA A $A \operatorname{A} G \mathrm{GA} A C G G A A C A A A G G G A A A A A A A A A G A A G C C G$ $A C C G A G A G G A G A G A A G G G G A A G G G G G A G A C A A G A A G G A A G G A$ AAAGGAAAAAAGGACAAAAAGGAGGCAAAAAGAA GAAAAACA $G C C G A A A C C G A A G G G G A A G C A G A C A A G A A A G A A A A G G A C A G G$ A G G A A A A A A A A A G A A A A A A G G A A G G G A A A G GAAC CAA G G G G A G GATTAAGGGGACAGAAAAGACCGGGGGAAAGGGGGGAGAGA AAACCGGGGCCAAAAAAAAGGAAGGAGGAGAGAGGAAGAAGC A A G G G A G A A G G A G G G G G A C A G A A G GAA A A CA GA GATTGGCCC CAAAAAACCGAAAGAGGGGAAAAAAAGGGAGAAGGAAGAGGA GCCGAGGAAAGAGAGCCAAAAGGAAGCGGGGGGGGGGGACCB GAGGGCCCAGGGAAGAGGAGAACAAAAAAAAAAGAGGGAAAA $C G G A G G G A G G A A G G A G G A G G G G A A A G G G A A G G G A A A A C A A A A$
 A G G A A A A G G G A A A G G G A G G G G A A G G G G C C G G A G G A G A G G C A A
 G G G A A C C A A A A A A A A A G G GCGCAGAAGAAGGCAAGA GAAAGA AGGGAAGGGCCAAGGAGCAAATTGGAAGGAAGAAGGACAGGC A A A A A GAGGAAAGGGAGAACCAAAAAAAAGGCCAACG
CCGAGGGGAAGAAAACGGGGAGAGGGGAAAAGAAAAAAAAA GAGAGGACCGGAAAGAGAGAGGGAAGGGAGGAACCGGAAGAG
 AAAAAAAAGGGAAGATTACCCGGAAGGAACCCAGGAAGGAAC AA $A \operatorname{GGGA} C A A A A A A C A A A G G A C A A A G A G A G G G G A A G G A A A A A$ $A G G C C A G G A A A G G A A G G G A G G A G G A A G A G G G A G G A G A G G A G G$ GAGAGAGAACCCAACGAAAGGGAAGGGAAAGGAGGAAGAGAA G GAGAGGGGGGGGGGACAAGAGGCCAGGAGGAGAAAAGAAAG AAAACAAGGGGAAGGCCAAAAGAAACCGGAAAAAAAAGGGGA CAATTAAAGAAAAAAAAAAAGGGGAAGGAAAACAGGAAAAAC CAACCCAACAAAGAGAAAGAAGGAACCAAGGAAGGGAGAAGA
 A GAGAAAAAGGGAAGAAGAAGGGGGGGCCGGGGGAAGGBCAA A A A A G A A G GA GAA A A GAAAAAAAGGAAAAGGGAAAGGAAAAA GAACCGGGAAAAAGGACACGGGAAGAAGGAAAAAAGGGGAAA $C G G C C G A A A A G A G G G A A A G A G A A A G G A G A G A G A A G G A A A G A A$ G G A G A G G A G G A C C A G G A A G G G G GAGAGAGCXAAGGGGGAAAA
 AAAAAAGGGAGAGAAGGGAAGGAGAGAGAAGACGGAAGAAGA G G G G G G G G GAGCACCGGAAAAGGGAAGGGAAAACAGGAAAAG A GAAAAAGAGAACAAAAAAGGAAAAGGGGGGGGGGGGGGAGA GCCAGCCAGGGAAGGGGAAAAAAAAGGGGGGGGGACCAGAGB A G G A A G GCCAAAAAAGGAACCAACCGGAAAGGGTTAAAAGAA A A A A G GA G A GACAGACAAAAAGAGGAGAAGGGACCGGAACAA A G A A A G G A A G G A G A GAA $A \operatorname{AGGGAAAAAGGGGGGGGAAACAGAA}$ AACA A G G G A G GAGGGAACGACCCAAGGGGGAGCAAAAGAGAA A G GACAAAGGAAAGGGAGGATACAGAGAACCCATAAGAGGGG

 CAAGGAGAAAAAAGACCACGGGGGAAGAAAAGGGGGGGGGGA A A A G G A A A A G G G G G A A G G A G G G A A CAGCAC GAA A A G G A GA G A GAAAGAGAAAGAAGGAAAAGGGGGGAGCAAGAAAAGGGGGGG G GAA A G G G G GAGGCCAAAGAGCACAAAAACAAGGGGGAAGAA A A G G A G G C C A A A G G GA G G A A A A C C C GAGGAGAAGGGGACACA G G G A A A A G GAA $A$ A A G GA $\operatorname{A} A A A A A A A G G A G A A A G A A C C G G G G G C$ $C \subset C A A A C G C C C A A G G A A A A G G A A G G A A A A A A A A A G G B A A G G G$ G G GCCAAAAGGAAAGGGAACCCCAGGGAACCGGAGGGGGAAA

A A C G A A CAGGGAAAAAAAGGGGAAGAGGAAGAAAGTTCAGAG GA $A$ A $\operatorname{A} G A A G A C G A A G G G C C G G A G A G C C A G G G G G A A G A A A A A G$ GAGAGGGAAGAGGGGGGAAGGACAGCCGAGGAGAGAAGAAAA AA G G GAGAGAAAGAGAGAAAAGAAAGAGGAAGGAAGGGAAA G A A A A A GAGAAAAAGGGGGAGGAGAAAACCGGAAGGGGAGGGG G G A A A G C G G G G G G A A G G G A A GA $A$ GACGAGAAGGGGAAAA GA GA G GAACGGAAGAAAACCGGGAAGGAAGGGGAGCCGGCCAAAGA G GAAGAGAAAAGAGGAACCAAGGAGGGGGACAAGGAACAAAC CAAAAGACAACGAAAAGGGGGCCACGGAAGGGGGGCCAAGGG GAAAAGAAGAGGAAGGAAAGGGGAAAAAAGGAA G GAAAGGGGA GACAAGGAGAAAAGGGGAAGGAAGGAGGGAGAGAAAACAAAAA $G G A C C G G A A A G A G G G G G C A G G C C G G G G A A A A A A A A G G A A G A G$ AAGGAGGACGGGAGAAGAGCCGAAGAGGGAGGGAGGGAAGAA A G G A G G GCAATAGCCCCGGACGAGAGGGGGAAAGGGAAGGGA GGAGGAACCGGGGAGAAGGAAGGAAAAGGGGAACAGAAGAGA AAAGGGCGGAAAAAGAAGAAAAGAGAAACCAAAAGGGBAACA A A A G G GA $\operatorname{A} G \subset C A A G G G A G A A G A A A G G G G G A A G G A G G A A G G A A$ A G GAGCACCGAAGGGAGAAAAAAGGAGACAAAAGAGAGGTTG GAGAACCAAGGAGGAGGCAGAAAGAGGGAGGAACCGGGAGAG G G GCCAGGGAGGAAAAAGGAAACAAGGAAGGGGGGTTAGATG $A G G G G A G G A G G G A A G A G G G G G G G G A G G A G A A A A A A A G A A G G A$ ACCGGGGAAACGGGGAAAGAGAGGGGGAGAAGGAAAAAAAAG GAAAAAAGGAAGGGGAAAGAGGGAAAAAAGCGAAGATGAACC A A C G G GAA A G G A A A A G GAAC CAA A G GAAAAGAGGGGAAAAAA $A$ GAACCAACCCCAAAAGGGGGGCCCCCCGGGGGGCCAAAACAA A G G A A G GCC C G G G G G G G G G G G A A C C G G A A C C G G G G A A G G A C A C GAGATAAGGAACGGGGAAAAGAAGAGGGAAAACCGGGGAAA A G G G G A A G G G G A A C C A G A C TA G GACAAAAAGGGAA G G G G G A A G G G A C G G G G G G A G A A A A G G A A A A A G G G GAA $A$ G A A A A A C C G G G GAAGGAAAAAGGGCCCCGACCGACAAAGAAGAGBAACGGGGG GAGGGGGGGCCAAGGAGGGGGGGGAGAAGGAGAAAAAGAAAG A G G G GAAAGCCGAAGAAAAAGAAGAAAACCCAAGGCCGAAAC CAGACAGGAAAGAGGAAAGCAAAGGAAGACAAGAGGAGAACA AAAGGAGCCAACCCCCAAAAAAAAAAAACGGGGAAACGAAAA C G G G G C A G G A T G G G G A G G G G G A A G G A A G G G A G G A A A A C C A A $G$ A GAAAACACCCGAAGAGGGGGGGCCAAAACCAAGGAAAAGEG G G GAAAAGGGGTTGGGGGGAAAAAAGGAAAAAAAACCABAAA A G GAGGGGGAGAGAAGGAAAACCGAGGCAGACCGAGAGAGGG GACCCCCGGCAAAAAGAGAACAAAAGAAACCGGAAGAAAAAG A A GA $\operatorname{A} A A A A A C A A A A A A G G G G G G G A A T T A A G G G G G A G G G G C C G$ $A G G A G G G A A A A G G A G G G A A G G A G G G G G C C G G A A A G A G A G A G G$ GCAAGGGAAGGGGGGAAAAAGGAAGCCCCAGGAGGAGGAGGA G G GAA $A \operatorname{GGGGA} G A C C A G A A A G G A G A G G G A A C C A G A G G G G G A A$ GAAGGAAGACCGGGGGGGGCCAAAAAGAAAATTCCGGAAAAG GCATTGGGAAGCCGGGGTAAAGGCAGGAAGGGGAAAAGACAA A G GAAAACCGAGACCAGAGGAAACCAAAAGGAAGGAAGGGGA A A G G G A A A A A G A G G A G G G G G G G G G G A A A A A A G G T TA G G GA G A A G GCGGGGGAAAAGGAAGGAAGCGAGAAGAACCGAGAAAAGG $C \subset C A A C C A G A G A A A A A A G G C A G G A A G G A T C C G A C C A C A A A G C$ GAGACCCAGGAGGAACCGGCAAAGGGAGGAAAGGGAGGAGBA G G G A A A G A G A G G G G G G G G G A G G G G A G G A A C C A A A A G G A A A A $G$ AA $A \operatorname{GGGA} C A A C G A A A A G G G G G G A A A G A C C A A G G C C T T G A A A A$
 A GAGAAGGAGGGAGAGGCCAGAGGGAGGGGAGAACACAAGAA $A C C A G C C A A A A A A G G G G A A A A G A C C C A A A G G G G A A G G A A A A G$ GAAAGGGAAGGCCGGAAGGAAAAGGCCAAGAAAAAAAGGGGG
 A A A A A G G G G A A G G G G G G G G G G G G G G A A A A G G A A G G A A A A G G A AAACCAAGGAAGGGGGGAAGGAAAAAAAAGGGGGGGGGGGGG

G G G G GAACCAACCAAAAGGAAGGAAAAAAAAGGGGGGAAGGA A G G G GCC G GAA $\mathrm{C} G \mathrm{G} C \mathrm{C} G \mathrm{G} A A C \subset A A A A A A A C G G A C G A A A G A G G G$ GAAGGAGAAGGAAGGCCAAGGCCGGAGAGGGCCAAATGAAAA C G G G G G GAACCAGAAGGAGGAGGCAAGCAAACCCCGGAGCCC $C \subset C A A C C A A A A G G G C G G G A A G G G G G G A A A C A G G A G G A A A A G A$
 A A A G G G G C A G A G A G G G G G G G G G A A G G A G G G G A A A A A G A A G G G GAGAAGCAGGGCCAACCGAGGGGTAAAGAAGAGGAGAAAGGG GAAGGAAAGAAGGACAAAGGGAGGGAGAACCAAGGGGGAAAA AGGCACCGGAAAAAGAAAAGGAAGAGCGGAAGGAGGAGAAAG G GAAAAAAAGGAAAAAAGAAGGAAAGGAGGGTTCGGGAACAAA A GAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACCGGC C A A A A A A A A A A G G G GAAAAGGAACCAGAACCAGAAG GAAGGT TAAA $A$ A A A A A A G G A A C CA $A \operatorname{AGGGGGGAACAGAAGGAGGGAGGA}$ A G G G G G G G GAAAAAAAAATAAAAAAGGCAAGGAAGGACCAGA $A C C A A A A A G T T A A G A A A G A G G A A G A A A A G G A G A C C G G A G G G G$

 AGGGAACCCAGACAGGGAAGAAGGAGAGGGGAACCAGAAGAG G GAGAGGACCAAGCCGAGAAAGGAGAGAACCGGAAAAGAAAA AAAGGAAAGAAGAGGGGAAGAAGAGGGGGAAAAGGAGGAAAG

G G G A G G A C G G A A G G G A G G G G G G A G G G A G A GAA A A A G G A A A $G$ GCAAGCCAGGGGGAGCCGGGACAAGGGGGCCAGGAGAGAA GA GAAAACAGATTGAAAAAAAGGGGGGAGAAGGACGAAA GAGAA AAGACGAGACAGAAACCAAAAGGAACCGAAAAGAAGGGGGGA G GAAGAAGGAGAAAGACCAGAAAGAAAGGGGGGGGAAAAAAAA A A G G GAGGGACAAAAAGAGGGAGAAAGGGAAGGAGGGGAACC A G GCCCAGGGGGGCCGGAAAACCGAGAGGAGGAGGAAGAAAG GAAGGGGAAGGAACCAAGAAACCAAAAGAAACCGGAAGAGAG G G G A A A A T T G G A A A A G GAACCAAAAAAAACCAAGGGAAAGGG $G C C A A G G A A G G G G A A G G A A G G A A G G A A G G A A A A G G A A C C G G A$ A G GAAAAAAAACCAACCAAAAAAAAAAAAAAGGAAGGAAGAA A A A G G A A G G G G G G A A C CAA A GAA A G G G A A A A A A A A G GAAAA A GAAAAAAGGAAAAGGGGAAGGGGGGGGAAAAAAGGGGABAAG $G G G A A G G G G A A G G A A G G G G G G A A A A G G A A G G A A G G G G G G G G G$ G G G G G A A A A G G A A G GAA $A \operatorname{GGGGGGAAAAGGAAAAAAGGGAAAG}$ $G C C A A G G G G G G C C A A G G A A A A G G A A G G A A C C A A G G G G G G G G A$ A G G G G A A C C A A G G G G G G G G A A G G C A A GC C A A CAA G G GAAA G G GAGCAGGGGAACAGGATGACGAAGGAAAAAAAAGAAAGGGGG A G G G G GACACCGGGAGGAAAGAGAAGGCCAGAGAGGGAACAA GAGGGAGAGGGGGAGGGGGAGAGAAAACAACCCAAGGAAGEG
 AAAGGCCGGAAAGAAAAGAAAAAAGGAACGAGGGAACAAGAA
 A G G A A C C G G A A A A G G G G G G T A A A G G G A G G G A C C G G G G A A G A A A G G A G G G A A G G A A G A A A A A G GA A G G G G G G A A A GAC GAAAAA A AGGGGAAGCAGGCCAAAAGGGAGGAGGAAGAAAAGAGGGGGG GAGGGGGAGGGGGGAGACAGGAGGGCCGGGGAAAAGGCAAAA A A A A A G G A ACCGGAAGGTTAACCGGCCGGGGGGAAAAAAAAA A G GAA $A \operatorname{GAAAAAGGGGAAAAGGAAGGAAGGAAAAGGAAAAGGG}$ G G G G G G GCCCCAAAAGGGGAAAAGGAAAACCGGAAAAAAGGG GAATTGGGGGGGGGGGAGGCGAAAAAAAAAAGAAGCCAACCT TGGGGAACCCCACGGAGAGCAGGAAGGAGAAGAGGGGAGCCC CAGGGAAGGAAGGAAGAAGGAGAAAAAAAACAAAAGAAAAAG GCACCGGCAGGGGGGAGGAGGCAAAGAAGGAGGAAGGAAAAT A G GAAAACAGGGGAAAAAACCCGCCAGAAGGACAAGGCCGGG
 AAAAAGGGGCCCCGGCCAGATGAGGAAGAAAACGGAAAAGCA

A GAGGCCGGAGGCAGAAAAAGGAAGGGAAGAGGGGGGGGGGA GAAAAGGAGACAAACGGCCGAAGGAAGGGGGGGAAGAAAGGC C GAGGGAGGACTTCCAGACAAAGAAAAGGAAGGAAGGGGGGG G G GCCGGGGCCAAAGAAGACCAGGGGGAGCCGAGGAAGGGAG GAAGGAAAAAAAACCGAGGGGGGGGAAAAAACCAAAAAAGGC CAAGGAAGACCGAAAGGAAAAAACCACAAGGAGGGAAGAAGA GAGAGCCGGAAGGGGAAAAAGAAAGGGAAGAACGGAGGAAAA AAAGGGGAACCGGAGAACAGGGGAGCCGAAAGGAAAAGGCCC G GCGGAGGGACAGAAGGGACCGACAGGAAAAACAAGAAAGGG AAAAAAAGAAAGGAAAAAAGGAACCGGGGAGAAGAGGGGAAA AAGGGAGGAAACCGCAAGGAACCAAAAAAAAAAGAAAGGGGG GAAGGGGAAAAAGCCAAAGGGTTACGGAAAAGGAAAGAAAAG GAAGGGAAAAAGGGGAGCGGAAACACCATGCGAGACCGAAAG A A G A C A A A A A A G GA A G G G G G GAGGGCCGGGGAAGAGGCAAAA AAGCCGGGGCCGGGGAAAACAGAGAGGAGGAAGGATTGAAGG GAC $\mathrm{C} A \mathrm{~T} T \mathrm{~T} G \mathrm{~A} A A C \mathrm{~A} A A A G G G G A A G A G G G G G A G G C A A G A G A G G$ G GAA A GAA $A$ AAAAACCGGAGAAAAGGGAAAAGAAAGAAACA GA C G A A A A A G GAA $A \operatorname{GA} A G A G A A G G G G G A G A G C C A A G G A G C A A A A$ AAAAAAAGGGGGGGGACAACAGACACCAGGAGGAAAAAGGGA A G G G G A G G G A A A G A G G G A G A A A A A A C CAA G GAAA G GAAAAC C $C G A G A G A A A G A A G G G G A G A C C G G A A A A A A G G A A A G G A C C C C G$ G GAAAAAGGAAGGGGGAAAAACCAAAGGGAAAAGGACAAGAA AAACGCCAGCCCCCCGGCCAACCGGGGGGGGAAACACAAGAA A A C G A GA $\operatorname{A} G A A A C G G G G A A A A A A A A A G A G G G G G A A G G C A A A A$ A A ACCAAAAAAAAAAAAAAAAGAGAGGGGCCAGGGCCCCCCA A G G G G A A A A G G G G A G A G G A A A G G G G A A A G T T C C G G G G C C C G A A G G G GA $A \operatorname{GGA} \operatorname{G} A A A A A A G G A G A A A A G G A A A A G G A A G G G G A A G$
 G G G G A A A A A G G A A C C GAGGAAGGGGGGCCAAAACCGGAAAAG GAAGAAAGAGAGACAGAAAAGAACCCCAAGGAAAAAGGAAAA A A G A A A G G A G G G A A A A A G G G G G G C C C C C C G G C C A G C CA G G A G G GAGGGGAAGAGAGAAAGGAGAGAAAGAAGGAGAGAAGAGAG A A G G GAA $A \operatorname{GGG} G A C C C A A G A A G A C C A G G A G G G A A G G A C A G G G$
 A A A A A G G G GAA $A \operatorname{G} \operatorname{A} A A G A A G G A G A A A G G C C A A A G G A C A A G G A A$ CAAGGAGACAAGGAGGGAAAACCGGCCGGGGGGAAAAAAAAC $C \subset C G G G G G G A G A A G G A G A A A G G A G A C G C C A C G G A G C C G G A A G$ AGGCCAACCAGGAGAGGGGAGAAAACCGAGAAGCCGAAAAAA GAGGAAGAAGAGGAGGGAGCAGAGGAGGGAGCCAAGAACAAG AAAGGAAAAAGCAAAGGAAAGAAAAAAAAGGGGGGCCBAABAA $G G A G G G A T A G A G G A G G G A A C C A G G G A A A G G G C A G A A A G A G A G$ GAGCCGAGAAGCCGGAGGAAAGGAAAAGAAGAAAAACAAAGA GAAACAGAGAGGAAAGGAAGGGACAGAGACACAAGAACAAGA A A A G G G G G GCC G G G A C C G G A A T T G G A C G G G A A G A A A A G G G G A $A C C G G A C A G G A A G G A G G G G G G G G A A G G G G A G A G C C A A G A A G C$ C GAAAACAAGAAACCAAGGAGGAGGCAAGGAAGCCCAAAAAA GAGGAA $\operatorname{G} A A A A G G A A G G A A A C G G A A A G A T A A A G A C A G G A G G C$ C G G G G T A G GAAAAGGCAGGGGGAAAGAAAGGGGAAGAAAACC GAACCGGAACCGGTTTTGGATACAGAAAGTTCCCAAAGAAAC A A GCCGAAAAGGAAAGGCCGAAAGAGGAGCCCAAAGAAAABA GAGAGAAAAAACAGGGGGGAAGGGGGGGGCCGGGGGGCAGAC GAAAAGGCCACCCGGAAGGAAGGAACCAAGAGGGACCAGAGA A A A G G A A A G G G A A A A G A A A CACAAAGGGGAAGAAA GAGAAAA AAGGAAAAAGGGGGACACCACAGGAGAACGAACACAGAAAGA G G GAGGCGGGGAGCAGGAAACCCAGGGAGACGGCAGACAGGA A A A A G A A A GAGGGGAGGCAGGGGGGCAGAGGAA GAACGGGGA GAAGGCCAAAACCGGGGGGGGAAGGGGGGCCAAGAGGCAAAG G G G GA GAAAGGAAAAAACAAAAGGGAAGAAAAAAAGGGAA G G $A$ GAGGGTTAGAGCAGGGGAAGAGGAGGGCCGGCCAAAAAAGAA

A A A A A A A A A T G GACAAAAAGGAGAGAGAAGGGAAGGGGACA GAAAAGGAAAGAAAAGACCGGAAGGAAGAGGGGGBAGAGGGG
 G G G GACCAACCGAGGGAAGGGAGGGAAGGGAAGGGAAGAGGG $G T T G A G G C A G G G A G G A A G G G G G G A A G A C A G G G G G A C C A B A A A$ GAAAAGACCCCAGACGGAGGAGAAGGGAGAGGACCAAGAAAA
 GGGCCCCAAGGGGGGAAGGCCGGAAAACCGGGGGGAAGGGGG G A A A A G G A A A A G G G G G G G G A A C C G G G G A A A A A A A A G G A A A A G G G GAAGGAAAAGGAAAAAAAAAAAAGGAAGGAAAAAAAAAAG G G G G G A A G GAAAAGGAAGGGGAAGGGGGGCCGGAAGGCAAAG G G G A A A A A A A A C C G GAA $A \operatorname{AGGGGGGGCCGGAACCGGAAAAAAG}$
 C T TAA $A \operatorname{GAA} \mathrm{~A}$ GAAAAAAAAAAAGGAAGGGGGGGGGGGGCAAA$G$ G G GAA A GCCGGGGCCGGCCCCAAAAGGAAGGAAGGGGCCGGA AAAAAAAGGAAGGGGCCAAAGAAGGGGAAGGAAGGAAGGGAA G G A A A A C G GAAAC G GAA G GAAAAACCCCGGAGAGAA GGGGGGG A G GAGCCAAAAGAGAAAAAGGAAGGAAAGAAAGGBAAGGGAA A G G A A A A A A GAGAAGAAGGAAAGAAGGACAGAGAAGAACAAG G G G G GCC G A G G G G G G C C A G GACC G A A G G A G GAA G G G A G G G G A A GAGAAAAAAGGGAAGAGGCGGGAGAGGAAGGGGGAAAAAAC A G G GAGGGAAAGGAGGAGGCAAAGGAACCCCCCGGAA
A GCCGGAGAAAAGGAAAACAGAGAGGCAAGAGGAGGGACAC GAAAGCAGGCCGGAGAGGGAAAAGGAAAAGACCGGAGCAAGB A A G A A A G A C A G A GAGGGAGGGGGAAGAACGAGAGGAAGACAA A G GAAAACCAGGGAAAGCCAAAAGGAGGACCGGGAAAAGCCA TCCAAAAGAGAGGGGGGCCAAAAAGAGGACCGGCAGACBAAC C G G A A G G A GAACC GAAGAAAGAAAGCCGAAGAAGAACGAAGA A G A T A G G G G G A G G G G G G C C T A A G G G A G G A A A G G A G G G A A G G G G G GAGGAAACAAAGACCACCCGGAAGGACAGAAGAAGGGGGA G A A A A A A A GA GAGTTAAGGAAAAGAAAAAAAAAGGGGGAAA G $G C C A A A A A A T T G G C C G G C A G G A A G G A A A A A A G G G G G G G G A A A$ A G G G G G G A A A A G G G G G GAA $A \operatorname{GCC} C A A A A A A A A G G A A G G A A C A A$ A A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{GAA} \mathrm{A} G A A A A A G G A A A A G G G G G G G G A A A A A A A A G$ G G GAACCCCAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAA A G G A A A A G GAACCGGGGAAAAAAGGGGAAGGGGAACC GAAAAA A GGAAAAAATTAAAAAAGGAAGGGGAAGGAAGGGGGACAAAG GAAAAGGGGGGAAGGAACCCCAAGACAAAGGAGAAGCBAGAAA G GACCGAAGAAAGGAGGGAAGAGAGAAAAAAGAACBAAAA GA GAAGGGGAAAAGAAGAAGGAAAAGGGGGGCAAAGGAAGAAAC C G G G G G GAGAGAAGAGAGGAAGGAAGGGCAAAGAAAAGAACC CAAGACAGAGGGAGGACAAGGACGGAGGAAAGGGAGGGCABC $C G G A A C C C C A A A A G G G G A G A A G G G G G G A A G G T A A G A A G G G A G$ G G G G G A A G A A A A A G G G G A G A A C C G G G G G G G G G G A G G A G A G A A C TAGAGAAAGGCAGGAAAAGGGGGAGAAGGGGGGAAAAAAAG $G C \subset A G A G G G A A G G G G G G C A G G G G A G C A A G A A G G G A A G G G G G G$ $G G G C C G A G G G G A A C A A A G A G G A A A A A A A A G G G G G G G A A A C C B$ G G GAAAAAAGGGGAAGGAAAAGGAAAAAAAAAAAAAAAAGGA AAA A GAA $A \operatorname{Ag} \operatorname{A} \operatorname{A} A A A A A A G G G G G G G G G G C C A A A A G G G G C C G G A$ A G GAA $A \operatorname{GAAAAACCAAAAAAGGAAAAAAAAAAAAGGGGGGGGG}$ GAAGGAACCAAAAGGAAAAAACCGGAAAAAAGGAAAAAACAA A G G A A C C G G G G G G G G A A A A A A A A A A A A C CAAAA A GAA G G T T C C G G C C A A C C G G G G G G G G A A A A G G C C A A G G G GAACC G G G GAA $A$ $C C C A A G G C C A A G G G G G G G G G G C C G G A A G G G G G G A A G G A A A A G$ GAA A G G G G GAA $A \operatorname{A} C \subset A A G G G G G G G G G G G G A A A A A A C C G G T X A$ A G G G G A A A A A A G G G GCC $C G G G G C X A A G G G G C C G G C C G G A A A A A$ A G GAA A G CCGGAAGGAAGGGGAAAAAAAAGGCCGGGGAAGAA
 $C G G G G A A A A G G G G A A A A G G A A C C C C A A G G A A G G G G G G G G G G C$
$C C C G G A A A A G G A A A A G G G G A A C C A A G G A A A A A A C C G G A A G G G$ $G C C A A A A A A G G A A A A A A A A G G A A G G G G G G C C G G G G G A A A G A A$ A A A G G G G G G G G G G G GAAAAGGGGAAAAGGAAGGAAG GAAAAA A G GAA A GCCCCCCGGGGCCAAAAGGGGAAAAAAGGGGAAGGG GGGCCAAAACCAAAAAAAAAACCGGAAGGAAGGGGAAGGGGG G G G G G A A C C A A A A G G G G T T G G G G C C C C C C A A G G A A G G C C G G A A G G A A G G A A A A G G A A G G A A A A G G G G G G G G G GAA G G C C A A G A C CA $A \operatorname{GAA} A C A A A G G G G A G G G G G G C A G G G G G A G A G G G G A A A G A A$ A A A G G G G A A G GCC G G G G A A A G G G G A G G A A G A G G G G A A G A G G G G GAAGAAGGAAGCGGGGGAAGAAGGGGAAGGAAAAAAAGAAA $A C C C G A G A G A G A G C C G A C C G G G A G G G A G A T T G G G G G G G G G G A$ A GAGGAAAACCGGAGACGAGAAGAAAACAAAAAAGGGGACGC CAAAAGGACGGAGAGACGGAAAAGGGACAGGGAGGAGAAAAA $A C C G G G G C C G A A G C G G G A G A A A A A A C C A G G G A G A G G A G A G G G$ A GAGGAGGAGAACGGCAGGAGCCGGGGGGTTAAGGAAGAAGA AAAGGCCAGCCGGGGAACACCGGGGAGGAGGGAAAAGGAGAG GCCGAAACCGAAGAGAGAAAAAAAAGGGGAAGAGAGGCCCCC C GACCCAGGCCAGGAGAAAAAGGAACCAACCGGAAGGGAAAG G GAGCAGAAGGCAAAAGGGGGCCAAGGAAAACCGGAACAAAA G G G G A G G A G G G A G G G C C G G G A G G G A C C A A A G A C G G G G G G C C G GAGGACAGGAGGGGGGGGGAAAAAAGGAACCGGAAGGCCGGA ACCGGAAAAGGGGAAAACCCCAGGGAGGACCAAAAGGGAGGG GAGGAAGAAGGAAGGCCGAAGAGAGAGGGAAAAGGCCBAGAA
 GAAGAAAAGCAAAGAAAGAAAGGCCGGGGGGAAGAAAAAAGG GAA $A \operatorname{GA} A A A A G A A A A G G G G A A G G A G G A G A G G A A G G G G A C A A A$ A G G G G G G G G G GAAACCAGAGGCCGGAAGGGGGGAAAAGAAAA A A A A A G G G G G G A A G GAA $A \operatorname{A} \boldsymbol{A} A A A A A A A A A A G G G G G G G G G A A A G$ GAAAAAAGGGGGGAAAAAAAAAAGGGGAAAAGGAAAAAGGGG G G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A G G G GAAAA A G G G G G G G A A A A A A G G G G G G G G G GCCCCCCCGAAGGAGGGGAAACA AAAGGGGAAAAAAAAAAAGAAAAAGAAAAAGGAGAGAAAGGA A GAA $A \operatorname{GA} \mathrm{~A}$ GAGAGAAAAGGAAAACCGAAACAAAGAAAGGGAA CAAAAAAAAGGGACAAGGGGGGGAAGAAGAAAGGAGGA G GAAA CA $A$ A A CACAA $A \operatorname{A} A G G G A G A A G A A A G G G G G G A G A G A G G A C A A A A$ C G A G A A A G G A G C A G G G G G A G G A G A A A A G G G G G A C C G G G A C C G GAGAAA $A \operatorname{A} G \mathrm{GA} A \mathrm{G} G \mathrm{G} G A A G A A G G A G A G A C C G A A A G A G A G G G G G$ GAGGGCCAAGAGAAGAGAAAAAGGAAGGGGGAGAGACCAAGA A A GAGGAGGACAGGGAAAAGGAAAAGGGGAAAGACGGGACAA GAGGAAGAAGGGGCCAGGAGGAGAAGAGAAAGGGGAGAACAA A GAGAACAGGAACAGACAGACAGAAAGAAAAAAAAAAAAAGG A A C G A A G A GCA GACACCAGGGACAGGGAAAAAACCGAAAGGA GAAGGAGAAAAAGGGGGGGGGAACCGGGGGGAACCCCCGGGA GAAACGGAGAAAGAAGAGAGGACGAGACAGGAAAGAGAGAAG G GAA A A G G GAGAGAGGAGGGGAGAGAAGGACCAGGAAGAAAC CAAGGAAGGAAAGGGGAAGCCCAAAGGGGAAAAAAAACAAAA A A A A A A A G G G G T T G G C G G A A GAAAAAAAAGGGAAA GCA G G C C C CAACAGGGGGGAACAGAGGAGAGGACAGAGACAGAGGCAAAA GAGAGGAAGGGAGAAAAGGGGAAAAGGGGGGAAAAGGGAAAG
 A G GAA A GCCGGAAAAGGCCGGAGAAAGGGGACAAAACGGGGA
 $G G A A A A A A A G G A A G A C C G G A A A A G G A A G G G G A A A A C C A A G G G$ G G G G G A A A A G G G GC C G G G G A A A A G G GAAAAGGGGGA GAAAA G GAAACCGAGGGGGCCGGAAGGGGGGGGCCAAAAGGAAAAGGG GAAAAAAAAGGAAAAAAAAAAAAGGAAGGAAGGGGAAAA G GAA A G G G G G G G G A A G G G G G G G G A A C C G G A A G G A A A A A A $\mathcal{A} G G G G G A$ A G G A A A A G G G G A A G G G G A A A A $\mathcal{A} G G G G G G G A A G G A A A A A A G G G$ G G GCCCCCCAACCGGGGAAAAAAGGCCAATTGGAGEAGGGGA

ACAAAAAGGAGAGAAACAAAAGGAGAAGGGGAGAGGGGAAGA C GAAA $A \operatorname{GCCA} A \mathrm{C}$ G GAAAAGGAAAAAAGGAAACAAGGAAGAGGC A G A A G A A A A A A A A A G GAGAAAAACCCCACGCCAAC GAAAAG G G G G GAAAAGAAGGAGAAAAAAAAGGGAGGGGTACCGAAAGGA $C G A A G G G A A C C C C G G G G G G C A G A G G A G A G T T A G G A A A G G A A A$ A G G A G A A C C A G G G A A G G G A CA G A C A A A C C G G G G A G A A A G A G G G G GAGCCCCGGCCAGCCAGAAAAAAGGAAGGAAAAAGAAGBA GAAAGGAGGAAGAGGAAAAAAGGGGAGCAAGGAAAAAAACCA A A A A A A A C C G G G G A GAGGGGGAAAGCCAGAAGGGAAGAGAGG AAAGGAAAGGGGGCAAAAAGGGGAAGGGAAGGGCCAAGGGGG G GAAAGGGAGGCAGGAAAAAAGAGGGAAACCCCGAAGCAAAG GAGCCAAGGCAGAGAGAAGAGCCAGAACCCCGGGGGGGGGGG $G G A A A A G A A G G G G A A A A G G G G A A A A G G G G A G G G A G A A G G G G G$ $G G G A A G G G G A A G G A A G G A G A A G G G G A G A G A C C C A A G G G G G G G$ GAGAGGGGGAAGAAGAGAAGAGGAAAAAAAGGGGGCAAGGGG GAGGGGACCCCGGAAGGAGAAGAAGAAGGGAGGGGGGGGAAG GACGGAAGGAGAGGAAAGGAGCCAAAAAGCCACAACCAACAA A G G G A A A A A A A GAAAAAAGCGGGAAAAAAAAGGAAAAGAGAA AAAACCCGGACGAAAAAAAAAAAAGACAGGAGAAGAGATAGA G GAAAAACAAAGGAGGGAGAAAAAGGAAACCAAGGGAAAAAA G G GAAAGAAGGGGCAAAGGGGAAAAGAAAATCAAGGGAGCAC A A GAAACAAGGAAAGGGGGACAGGGAAGGAGGAGGAA
A A A A A A G G GAAGCCCCGGGACCAAGGAGAAGGAAGGGGAAG GAGACAGCCAACCGGAGACACCCGGAAGGAAAGGGAACAAAG GAAAA $A \operatorname{A} A \operatorname{A} G \mathrm{G} A A A A G G G G C C G G T T G G G G A A G G G G G A A G A C G$ GAGGGTTGGGAGAAAAAGGCAAAAACCGGAAGGGGAGAAAGA A G G G G G G G GATA A $A$ A GAAAAAGGGAAGGAGGGGGAGAA GAAAA GAGGGCCGGGGGAAAGAGGATAGAGAGCCAGCCAGAAAGGBA GAAGGCCGGCCAAAAAAAAGGAGAGAAGGGGGGGAAGGAGAG A A A A G G G G GCAA $\operatorname{A} A A G G G G G G G G G A G A G G A A A G G G G A C G A G A A$ A G G A A G G G A A G G G A G A G G A A G G G G G C C G G A G A A A A A A G A A G A A GAGAGACCAAGAAAGGGGAAAAGGCAAAAAAACCAAGGAAA G G GAA $A \subset G G A G C A G G G G A G A A A A G G G A A A G G A A A A G G G G A G A$ G GAGAAAGAAGAAGAGATTGGGGGGGGGGAGGAAAGAAGAAG GTTCCGGAAAAGGGAACAGAACCGGAAAAAAGAAGGAAACCG GAAGGAAAGAAGGAAGGAAAAGGAAGGAAGGAAAAAAGAACA G GACGCAGGAAAAAAGAAGAAGGAAGGGGAAAAGAGAGGATC CAA A $A$ A A $\mathcal{A} G G G G G G G A G A C G G G A G A G G A A G A T T A G G G G A A A G$
 $A C C G G G G G G A A A C G G G G A G A G A G A G G G A G A A A A G G G G G A C A A$ TGGGACCGAAAACAAGAGAGGAAAAAAAGCCCCGGAAAGAAA A A C A A A G G A G G A G A A G GCCAGCAAGGGGACGGGCCAA GGCC G $G C C C C A G A G G G A A A A G G A A G A A C G A A G A A G G G G G G G G A A A C A$ GAAGACAGAGGAAAAGACCAACCTACCAAAAGGGGGGCAAAG GAAGGGGGAAGGACCAACCAGAAAAAGCCACCCGAGGGAAAA C G G G G GAGGAGGGACAGCCCCAAAAACAGAAGGCCAAAAAAA GAAGGGGGGGGGAACAACCAAGGATAAAGAGAAAAAAGACCA A G GAA A A G G G GCCCCGGGGCCAAAAGGAAGGGGGGAACACAA CAGAAGGGGGGGGGGAAGGAAAAACAAAGGGAGAGGGAAGAA A G G G G A A A A A A G G G G G G A A GAAA A C CAA $A \operatorname{AGGGGAAAAAAAGGA}$ ACAGGAACCGGGAAGAAAGGACGAAGAGGGAGAAAAAAAAAC AAAGAGACAATCAAGGGAAGACAAAAAGGGGAGAAAAAAGAA GAAAAGGGGAAAAAGGGAAGAAAAACCGGGCAAACACAAAGG GAAGAAGGGAAATGAAGAAAAAAGGGGACAAGGGGGGAGCAA AAAGGAAAAAACCAAAAAAAAGGAAAAGGAAAACAAAGGGGG A GAGAAGCCAAGGAAAAGAAACCCCAAGGAAAAGGGAAAAAG A G G G G GA $\operatorname{G}$ GAAAAAAAAAGGCACCAAAAAACCGAGGGGGGGGG $A C C G G G G A G C C G G A G A A G A G G G A G A A G A A A A C C A A A C A A G G G$ G G GAGGGCCAGAGGGAGGCGGAGAAAAGAAGGAGAAGAACCG

GAATTCCGGACGAGGAGAGGAGGCCGGGGAAGAGGAACAAGB A G G A G A A A A G G A G A GAGAAGAGAGGAAGGCCCCAAGGGAAAA A G G G G G GAACCAAAAGATAAAAAGAGACCGGCCCAAAGAGAA AGAGACAGAAGAAAGGACACCGGAGAGAAAGAGGGAAAAGAG A G GAGGGCCAGAGAGAAAGAGGGGAGGGGAAAAACAAAGAGG A A A A A A A A C G GCA $\mathcal{A} G A G G G C C G G A G G A G A A G G A A G A G A A G B A$ AAAAAGGGGCCGGGGAGAAAAGGAAAACCAAAGGBAAAAGGG AGGGGGAGGAAGGAAAAAAGGAAAGAAGGACAAAAGAAAAGG A G G A A C C G G A G A C G G A A A A G G G G G A A A A A A CAACC GAC G CA G AGGAAGAAGAAGGGGGGCCGGCCGGAAGGAAAAAAAAGAAAG A A A A A A C G G G G T T G G G G A A G GCCGGAGAAGGCCAAAA GAAAA
 A A A A G A A A G A A A A A GCCAGAGAGACGAGGCAAGCCAAGGGGC
 AAAGGGGAAGGAAAAGCGGGGAACGGACCACGAGACAGAGGG GCCGGAAGGAAGGGGCCAGGCAGAGAGAAGAGAGGGGAGGGA GAGGAAGAAGGAGGGGGAGACCCGGGACAAAGACCAAGAAAA A A A G GCCAGTTGGACGGAAAAACCCAAACGGGAAGGACAAGA $G C G A G A A G A A G A G A C A G G G G A G A A G G A A A A G G G A C A G A A G G G$ G G G A A A A $\mathcal{A} G G G G A G G G A G G A C A G G A G G A A A A G G A G A A A A C A A$ A G G G G A A GAGGGAAAAAGGAAAGGGCCGGGAAGGGGAGAAAA GAAAGGGGAAAGGGGAAAAAAGGGGGAGAGGAAGGAGAAAAG GAAAAAAGGAAGGAAGGCCCCGAAGGAGGCCAAAAAAGAGGG GAAGAGAAAGAGAGGCCAAAGCCGGGAGGAAGGCCAAAGCAC C G G A G A G A A G G A A G G G G G G G G A A C C A A A A G G G G G G A G A A G G G G G G GAGGAAGGCCAAAAAACAAAGAGGAAAGAGCAGAAC GAA CAAAAGGGGAAAAGGGGAAGGTAGACCGGGGGGGACAAAGGG GCAGGGAGAGAAACACAGGAGAGACGCACGGAAAAGAAAGBA GAAAAAGAGGGGGGAGGGGAAAGGGGAAAAAAGCAGAAGGAA G G G GAAGAAACAAGCGGAAGGAACCGGAAAAAAGGGGGAACB ACAGGAAAAAAGGGAAGAGGGAGAGCCAGAAAGGGGGCAAAC $C G G G A C C A A A A G G G G A G G G G G A G A A A A C C G C A A C A G A G G A C G$ GAGAGAAAGGACAAAGGAAGGAAAAGGGGAACCGAAGGGGAA A G GAA $A \operatorname{GCC} C A C \subset A C G G A G G G G G G G G G A A G G G G A A G G G A A A C$ CAAAGAGAGAACCAAGGGAGAAACAAAGAGAGAAAAGGAGAA A G A G A GACAAACCGGCACAGGGGAAGGAGGGAAGAAGCAAAA C GGGAAGGAAAAACAAAAACAAAAAGAAGAAAC GAGAAAAGAC G GAGGAAGGGGCCGGAAGGGGGGGGAAGGGGGGGGAAGAAAG A GACACCGGGCAGGAGGCAGGAGCCGGATAAAAAAGGCAGAA G GAA A G GCCAACGGGCAGGGGAAAGAAAAGGGGGGAAAAAAC C G A A A A A A ACCAA G GACGAGGAAAGAAAAGGAACCAGGGGGG G G G G G G G A A G G A A A C C C G G G G C C A A G G G G G G G G C C G G A A A G G A G GAAAAAGACAGGAGGACGAAGGGGGAAACGGAGAAAAAAA A A A A A A A G GAA A GCAACGGGGAAGGCCCCAAAAGGAAAGAAA A GAGGGGAAAGGGAAAGGGGAAAAGGAAGGAGGGGCAAAAAA A A A G G A GCCAACCGGAACGAAAGGGGGGGGGAAGGGGGGGAA GAAGGGGCAGGGGAGAACAAAAAGGGGAGAACCGAATGAGAC
 GCAAACAAACCCCAAAAAAGGGGCCAGAAGGCCCCCCCAAGG AAAGAGGAACCAGAAAGGGAAAAAAAGAAGGAACCAGAGGGG AAAGAAAGAGGGGAAAAAAGACCCCAGGAGAGGCCAGAAAAC C G G A A A TAAAAACGGGGGGAAGGGAGGAAGGCCGGGAAAAAC
 G G G G G G G GAAAGGGGACAGAGAACCAGGGGGCCGAGAAGAAA ATTAGAGCAGAAGGAGGGGGAGGAAAAAGAAGAAAGAAAGGG GAGACGGGGAAGGAAGGAAAAGGGAAGGGGGGACCAAAGGGG G G G G G C A A G A A A A G A C C G G A A G G G G G A G A G GA T G G A G G G G G A A A A A A G GAAAGAAGGGGGGACGAGGGGGGACAAAAAGAAGAG AAAAATAGCAAAAAAAGAAAGGGAGAAGGCCAGAGGGAACAG

GGAACACCCAGAAGAGACCAAAAGGAAAGGAAGAGAGAAAAA G G GAA G GACCACCAGAAGGGAAAGAAAGGAAAAAAGACCGGA C G G GA G G G A A A G GAAC CA GAAAACACA G G GAA GA A A G GA G G C C GAAAA A A A G G G G G G G GAA $A \operatorname{AGGGGGAA} G G A G G A C C G G G A G G G$ A ACAAAAAATACAGGAGAGCCGGAAGGGGCCAGCCGGAAAGA G GAGGGGGGAACCAGGGAGAGAGAAAGGAGGGAGATXAAACG
 ACAGAAGGGGGGGGGGAAGAGGGCCAACAGACCGGGAAAAAA A A G A GCA $\mathcal{A} G G G \operatorname{A} A A A A A A G G C C G G G A G G G G C C G G A G G A C A A A G$ G GGACAAGAGGCCGGAAAAAAAAAAGGAAAAAAGGGGGGAGG A ACGGAAGAAGAACCAGGGAAGGGGAACCAAAGAAAAGGGGA


 GAAGGAAGGGGCCAAGGGGCCAGAAAAGGAAAAGGAAGAAAG GAAAAAACCCCGGGGGGAGAAAACCCCAAGGGAGGAAAAAGAA G GAGGGGGAGAAGCCAGAAAAAAACACAAGGAAACAGCAAGC A A G G A A G G A G A G G A A C A GAGGGGGGAGACAAA GAAA AAAGAA G G GAGGGAAAAAAAGACAGGGAGACGGAACCAGGGAAAAGGG GAAGGGGGGAAAGACGGGGGGGGAAAAAAAAAGGGGGCAAAA AAAGGAATTGGGGAAAAGGAAAACCAAAAAAGGAAGGGAAAG G G G A A A A G G G G G GAA A GAA $A \operatorname{AGC} C A A A A A A A A G G G G C C$
GGCCAAAGGGAAAGACAAAAAAGGAAGGAAGACCCCAACCG AGCAACCAAGGGGAATAAAACGGGGAGAAAAAAGAGAGGGGA AAAGGGGGAAACCGGGGAACCAAGGAACCGGAAAAGACAGAA GCCGAGGAAGGCCGACCCAGGGAGGGAGAGAAAAAGAAAAAA A G GAAAAAACAGAAGAGGAAGAAAAGGGGACCAGGGAAAGAG A GAGAAAAAGGAACCGGGAAAGGCCGGAAACAAAGAGAAGAA $A G G G G A A G G A A G G G A G G A A G A G G G G G A A A G A A C A G A A A A G A G$ GAAAGACAAGAAAAGAAAAGGAAAAAAAAGGGGGGAAGAAAA AAAGGAAGGGGAACCAAAAAAGGAAGGAAAAAAAAGGGGCCA A G G G G G G G G G GAA A GAAGGGGCCAAAAAAAAAACCAAAAAAA A A A A A A A G G G G G G G G G G A A C C G G G G G G A A A A G G G G A A A A A A $G$ GAAAAAAGGGGGGGGGGAAAAGGGGGGGGCCCCGGAACAAAA $A C C A A A A A A G A G G A G G G A G A C G A A G A A G G G G A G G G A A A G G B A$
 A A G G GAAAAAGAGAGCACCGGGGAGGGGGAAGGCCGAAAAAA AAAAAAAAGGGGACCGGGGCAGGAAGGAAGGGGAAGGGGGGA
 A A A G G T A G G G G A G G A A G G A A G G A A G GA GAAC $A$ A A C C G G G G G A A GAAAAGGGGAAGGGAGGGGAAAAAAGGAGCAGAGCAAGGGGA A A A G G G G A A G A G G G G G A C C A A G G G G G G A A G G G A A G G G G A A G G GAGAAAAAGCCAAGAGGAGAGACAGGGAGAGGAGGAAAAGAA CACACAGGGGGAGAGAGGAGGCCAGGGGGCCGGGGAGGAAAA $A G G G G G G A G G G G G G A A A A A G G G G A A C A G G G G G G A A A A G A A G A$
 G G G G GCCACCAAAAAAGGACAGGACAAGAGGGGAAAAGGGGA GCCGGGGGGAGAACCGGCAAACCGGGGCCGAAAAAGGGGTTG G G G GAGGCCGGGGCCACGGAAAAAGCCAAAAGAAACCAGGGG G G GCCAAGAAGGAAGGAGGAAGAAAAACCGAGAAAGAAAGGG GAAAAGGCCAAAAGGGAGGGGAGAAAAAAGGGAACGAAAAGG GAGGAAGACGAGGAAGGGGAAGGGGGACCAAGGGGGAAAAAA G G G A A C C A C A G G G G A G CA $\mathcal{A} G G G G A G A A A A A C G A A C G G G A A A A$ AGAAACACCAGACACGGAGAAGGGGGGCCGGCCAAAAGGGGA CAACCAAAAAGGAGACCGGGGACAAGAGAACAGGAAAACABC A A C G G G G A A G A G G A G G A A G G G C A G G A A A G A A A A G G G G G G G G A
 G G G A G A A G A A GACAAGGCCAAGGAACCAACCGGGGGBAAAAA AAAGGAGAAAAGGGGGGGGAAAAGGAGAAGGAAAAGAGACAA

GAAAAAAGGGGAAGGGGAAAGAGAAGGCCGGGAACBAAGGGA G G G G G A A G A G G G G G G A A A G G G G A A G GACAGGGA GAA A A A C C A
 C GAA A ACGGCCCAAAACAAGGAAAAGGGGGAAGGGAAAAGGG GACATGGAAGGAAGACAGGAAAGGGCCAAGGCAAGACAAAAG G G GCCGGGGAAAAAAAAGGGGAAAAAAGGAAAAGGAGCAGAA G GAAAGGGGAAGGAACCGGGGAACCGAGGGAGGAAAAAAAAA AAAAACCCCCCGGAACCAAAAGGAAAAGGGGGGGGGAAAAAA $A C C G G A A G G A A A A G G C C G G A A C C G G G G A A A A G G C C G G G G G G A$ A G G G G G G G G G GAAGGGGCCGGAAGGGGAAAAAAAAAAAAAAA AAAAAGGGGAAAACCAAGGAAGGGGGGGGGGAAGGCCAAGGC C C C G G A A A A G G A A A A A A G GAAAA A G G GAA G GAAAACC GAAAA A A A G G C A A A A A A A G GCC G G A A A A G G G G GAA A A A G G A G TA G A A $G G G A G G A A G A G A A G C G G A G A G A G G G A A G A A G G G G G G G G G G G G$ G G GCAGGAAGGAAGGAAAAGGAGGAAGCACAGGGGAAGAGAA AAGGAGGAAAAGGCCAAAAAAGGGAGGAAAAAAAAAAGGGGC G G G A A A A A A G G A A G A G GAGGGAGACGGAAAAAGGAACA GA GA $A C C A G G G G A C A A A A A G G G G G G A A G G A G G G A G G A G A G A A A A A C$ AA $A$ A $\operatorname{A} G A G G C C G G G A G A A A G G A A G G G G G A G G G G G G A G A C A A A$ A A G A G A A A A A A GA A G G GAGGGGAAAACCAAAAGGAGBAAACAC AGGGGGGGGAAACACGGCCAGCAGGAAGGAACCGGCAAAGBA A A G G G G GCCGGAAAAGGAGAAGGAAGAAGGGGGGAGAAAGAG $A G A G G G G G G G G G G A G C X A A A G G G G G G G G A A A G G A G G G G A G A G$ G G G G A C A A A C A C A A G A A A A G G A A G G A A G G G GAC G G G G G G G G G G G G GAGGCCAAAGCAGAGGGAGGCCGGAAGGAAGAAAAAGAG G G G A A G G A A A A G G A G G A A G A G G A A A T T C C C A GA GA GAAA G G G
 A A A A A A GAAGGAGAGCCAAGGAGCCGGGGGGAGGGAAAAGGG G GAAGCCGCAAGAATAGAAGGCACAAAAAAGAGGAGAAAAAA AGAAAGGGGCAAGGGCCCCGGGACCGGGACAAAAGAAAGAAG G GAGAAAAGCCGGAAGGACAGCCGGCAAAAAGAGAAAAAGGC CAAAGAGAAAGACAGAAAAAGCCAAGAGGGGGAGGGAAGGGG A A A A G G G A C A G A A G G G G G G G G G G G G G A A G G C G A A G G G C C A G G
 CAAGGGCACACGAGAGACCCCAAAAAAAAAGAGAGCAAAGBA GCCGAACGGACAAAAGGAAGGACGGAAGGAAAGCCAGAAGEC C TA A G GAGGGGCCGGCCGAAAAAGGAAGAGGAAAGAAGGGGG GAAAAAAAACCGGGGCCAGGAAAAAAAGGAAGGGGAGAGAGA G G G A G G G A G A G A A A A G A A A A GACAAGGAGGGTTAAA GAAA GA A A G G G G A G G C C A A $\mathcal{A} G G G G G A G G A A G G G G G G G C C G G A A C C G E T$ TCCGGGGAAAAGGAAGGAAAGAGAGGGAAAAAAGACAGAGGG G G G G G T T C CAGCCGGAAGAGAACCCGAAGGGGGGGGGAAAAA C G G A A GAAA $A \operatorname{A} A \subset C A G G G G A A G A G G T T C C G A A A A A G G C A A A G$ GAAAAAAACGGAAGGAAGGAAGAAACAAGAGGGGGGGGAAAC AAACCAGACAGGAGGGGACAAGGAAGGCAACGGAACCGGGAG G G G A A G G G G A A G G G G G A G GCCCCAAGGGAAAAAGAGGGAAA G A G G G G A G A GAGAGAAAGGGAAGGAAAGAAGAAC GAAAG G GAGA A G G GAAAAA $A \operatorname{A} A \mathrm{~A}$ A A GATGGCCGGAGAGAAAAGGGGGGAGCCC CAGCCGGAAGAGAGGAGGACAAGCAAGGGGAAA GGGGGGGGA A G G G A G G G GAA A A G G G A A GAGCCGGGAAATTAGGGGACAGAA A A GAAAAAAAAGGTACCAAGAGAGGAAGGGGAAAAACBAAGAA AA $A \operatorname{GGG} G \mathrm{G}$ ATCAGGAAGGGGACAACCAAGGAACAAAGGACAAA ATTGAAGGGGAATAACCGGACMAAAGGGGAGGGAGGGGAGAB G G GAA A GAGGGAAGAGAAAAGAGGGCAAAAGGGGGAGGAAAG GAGACGGCGACAGGGGGAAGAAGAAGGGGGAAGAGGAGABAA C G G A A G G A G A A A A G G G G G G A A G G C C G G G G A G G G G G A A G G A A A A A A A A G G G G G GCCGGAAAAAGCCGGAACCGGGGAAAAGGGAA A A A G A A G G G A A G G G A G G A A A G A G G A GGGGAAGGAAC CA G G G G GAAAAAGAAAAAAAAAAGGGGAAGGCCGGAAGAACGGGAGGA

GAGAGGGGGAAAAAAAAAAAGAGGGAGAGAAGGCCGAAAAAG
 G G GAAAAGGGGAGCGAACCACAAAAAGGGAGGGGGAAAAAAC $C G A A A A A C C G G A A G A A G G G C C G G G G A A A G A A A A G G A A G G A A A$ AA $\operatorname{A} A \mathrm{~A} G A C C G G A A G G A G A A A G G A G G G A A G A A A A G A A G A C G G G$ GAAA $A \operatorname{A} A \operatorname{A} A A C G G A A A A A G G A A A G G G G G A G G A C G A G G G A A A A$ G G G G G A A A A G G GAAAAGTACCCCAAGGAAAAGGGGAAAAGAA G GAACAGGACCAACACGGAACCCGAAAGAAAGGAGAAAAAAA G G A A A A A A A G G A A A A G G G G A A G G G A G G A A GAA GAACAAAAAC AAGCCGAAAGGGGAAAGGAGGGGAGAGAAGAGGCCAAGGCCA $A C C G G C C A C A A A A G G A A G G A A G G A G A G C C G G G G A A G G G G G G C$ C G G G A A C G GAGAAAAAAGGAAGGGAGGGGGAAAAAACAAGAG
 $G C A A A G G G G G G A A A G A A A A G G G G A A G G A G G A A C G G A G G A A G A$ $C G G A A A G G G G G A A A A G G A A G A G A C A G A A A C C G A A A A G C C C C A$ GCAGGCAGAAGAGGGGGAGAAGGAGAAAGCAAGCCAAAAAAG
 A G G A A A A A A G G G G C G G A A G G A A G A A G G G G G G A A A A A A G G G G G GAAAAAAGGGAAGCCAAAGTTGGGGGGAGAAAGGGAGGAAAG G G G G G G A A A G A G G G A A A C CAA G G GAAAC A A G G G G GAAA G G G G GAGGGAAGGAAGGGGGGAGAAGGGAGAAAAGAGAGAGAGAAC CAAGGGGAGGGAGGGAGACAAAAAACCGGACAGGGGG
A A A A A A G G A A C A A A A ACAGAGGGAGGAGCCAACCAGAAGGA $A C C C C G A A G G G A A G G C C A A A A G G G A G A A A C A G G A A A A G G G G A$ A G G A A G GCCGGAAAGAAGGAGAGGGGGGGAACAAAAGAAAGB GAAGGGGGGGAAGGGCAGGAAAGAGGGAAAAAGGGGAGAGGC AAAAAGGGGAACCACGAAGAAAGAGAAGGCCAGGAGGGGGGG G GAGAACAAAAAAACAAGGGGGGAGAAACGAAAGBAAAACAA G G G G G A G G A G G A C A G G G G G G G G G A A A G G G G A A A G G G G A G G G A $A C C G A A A G G G G C C A G A A A G A G A G A C G G A G G G A A G G T T G G G A A$ GAAGGGAGGGGAACCGGAAAAGGAGGAGAAGAAAAAGAAAAG GAGGACCAAGCAAAAGGGGAGGGACGGGACCCCAGGAGGAAA GAAA A $A \operatorname{A} G A G G G G A A A G A T A A G G A G G G A A G G G A A A G G A G G G T$ TA $A \operatorname{G} G A A C C G G G G A A G G A G A G A G A A G G A G G A G A A G G A G G G G A$ GACGGAAAGCAGGGAGGAGGGAAAAGGGGCCCCAAGAAAGAA G G GCCGGGGGGGGAGACAGACGGAGGAAGGGAGGAAAGAAGG $A C C G G A A A A A A G G A C G G A C G A C C G G G G G A A A G G A G G A G G A A A$ A G GAAAAAACCGGAGAGAAAGAAAAGGAGAGGAGAAGAAACA GA $A$ A A $\operatorname{A} A C \subset A G A A A G G G G G G G G G G A A A A G G G G G G G G G A A T A A$ GAGGGAAAACCAGCCAAGAAAGGGGAAAACCAGGGAAAGGBA GGGAGCAAGGGAAAAAAAAGGGGAAAACCAAGGGGAACCGGC
 G G GACCAGGAGGGAAGGGGAAGGGGAGAAGGGGGGGGGAAAA A A A A A A A A A G G G G A G G G A G A A G G G GAGAACCAGA GAAAACAA AAAGGAAGGAGGAAGGAGGGGAAAAGAAGAGAGAGAAAAAAA GAGCAAGAGGGAGAAGAAAGGGGAAAAAGACACAGACAAAAG GAGCAGGCCAGGGGCGGCAAAGGAAAGGGCCAGAAGAAGGGG GAGAGACAGACGGAGCAGGGAGGAGGGAACCGAAGGCAAATA CAGGAGGGGAAAAAAAAGGAAGAGATTAAAAGGGGGGGGGAC CTTACAGGAAGGGAAAGAGGAGAAACCGAGAGACAAGGGGAG A G A A A A A G A G GACAGGGGACCGGAAAAAAGGCCGAAGGAAGAA GAGGAAGGAAGAAAAAAGGGGGGGAGGAAGGAAGAAACACCA $A C C C C A G A A A A G G A G C A A G A A G C G G G A G A G G A A A A A G G A G G A$ GAAGAGAAAGGAGGGGAAGAGAGAAGGCCGGAAGGGGAAGAA AAAGGAAACCAAAAAAGAAAGGGAGCACCAAAGGGACCACCB A A A A A A A A GCAAACCCAGAAGGGAGAAGAAAAGAAGGAGACA GAAGGGAAGTTAAAAGGGGAGAACCCCGGAAGGAAAGAAAAA
 GAGAAGGCAAAAGGAGAGAAAAAGGGGGGCCAGGAGGAACAG

GCCAAAAAGGGAACCAGGGCAACGATAAGGACAGGAAAAAAG G G G A G G G G G G G G G G G G G C A A G A A G A G G A C GAC C C C A A G G G G G G G G G G A A A A A A A A G G G C C A GAGGGGGGGAAAGA AAA A A G G A G AAAAAAACCAACCAAGGAAGGGGAAGGAGGAAAGAGAAAAAA AAAAAGGGAGGGAGGGGGGCCAAAAGGAAGGAAAAGAAAAAA ACCAAGGAACCGAAGCAGACCGGAAAAGAAAGGGGGGAAAAG GAAAAAAAAGGCCAAGGGAGGAAGGAACCGGGGAAAGGAGBA $A G G A A G G A A A G A G G A G G G G A G A A G A G G A G G G G G A A G A A A G G G$ G G G G GAAAAAAAAAGGGAAGGAAGGCAGAACAGGGGAAAAGG G GACCAAGGGGAAAGAAGGGAAAGAGGCCGGAAAAAACGGGA A G G GAGGAAGGCCAACCCCAAAAGGGGGGGAAAAAGGGAGGA GAAAAGGAAAGGGGGAAGGGGGGAAGGAAAAGGCCGGGGGGA G G G G A G G G G A A A G G A A A A A A A G G G G G G G A G G G G G T T A A G G C C A
 A G G G GA G G GAAAGGGAAAGAGCGGGGGAAAAGGAGACGGCCG GAGAGAGACGAGGACGGAACCGGAAGGGACAAAGGAGAAGAA GAGAAGGAGCCGAAAAGAGGGCAGGAGAAAGACGGACGCGGG
 A G G GAACGGAAAAGGAAAGGATTAAAAAAAGGGGGGGGGGGG GAAGGGAGGAAACGAGGAGGAAGAGAAGGAGAAAATTACGAG G G GAACCAAAAAAGGGAAAAGAGACGAAACCGAGGACACGGA GAAAGGAAGGGAAGGAGACAGGGAGGGGAGAGAAAACABACA $A G G G G G G G G A A G G G G G G G G A A G G A A A A A A A A A A A A G G A A A A G$ G G G A A A A A A G G G G G G T T C C C C A A A A G GAA $A$ G G G GAAC C C C A A G
 CAACCAGAAACAGCACGGGGAGGGGGGAAAGGAAGAGAGGGG GAACCCCGGGACAAGAGGGGGAACCAAGGAGGGGAACCCGGG A G G G G GCGGAGAAAAACGACC GACCAAGGGGGGGGGGCAGBA GAGAGAGGGAGAAGAAGGAAAGGAGCCGGGGAACCAAAAAAA GAGGGAGCAGAAAAGGAGAGGGAGAGGTTACAGAGCCCCGGG A A GAAAAAAGGGGAGACAAGAAAAAGAAAGGGGAAGGGGGAA AAAGGGGGGGGGGGGAAAAGAGAGAAAGGAGAAGGAAAAAAC $C \subset C G G A A G G G G G G G G G G A A G G G G G G G G G A G G A A A A A A G A A G G$ A A A GAGGGGAAAAAGGAAGGGCCCCAAGGGGACCAAAAAAAA
 A A A A C G G G GAGCA G G G G A C G A A A G G G G G G C C G G A A C C G G G G G GCAACAGAAAAAGAAGGAGGAGAGGGAAACGCCGAAGGGAGA
 A GAA $A \operatorname{GGGGGACACAGCAAAAAAGGAGAAAAGAAGGAAAGGAA}$ A GAA A A G G ACAAACAAGGAAAGACCGAGAGGAC GAAAAAGAG $G C C C A C C G G G G A G G G C G A A G G A A C C A G A G G G A A A C A A G A C C B$ A G G A A A A A A A A G G GAACAAAAGGGAAAGGAGGAGBAAGACAA AAGCCGAGGGGAGGAGAAGCCAGGGAGGGAAGGCAAAAAGAA AAAAAGGAAAAGAAAGGAACCGGGAGGGAAGAAGGCAAAAGC C C C A G A A A A G G A A A A G G GAAACAAACCGGGGCCAGAAA G G G G $A G G G A A G G G G A A G G G A G C A A C B A A G G G G G A A A A G G G G G A A A C$ C G G G G A A G GCCGGGGCCGGAAAAAACCAAAAGGGGGGGACA G A G GAGAAGAGAAGGACAGAAAGGGGAAGGAGAGAA G GAAGGGG A G G G G A A C C GAA A A GAGAAGGGGGGGGAAAGGGGGAAAAAA G GAAGAAAGGGGGAGAAAAGAGGAAAAGGGGGAGAAAAGAGGA A G G G A A G G G G G G G G GAGGGGGAAAAAAAAGGCCGGGAAAGAA A G G G A A A A G G G A A G G G G G G C C G G G G G GAAACCGGGGGAAA G G C C G A A A G G A A G G A A A GAA $A \operatorname{GGGGAAGGAAAAAAAAGAGAAGAGA}$ G G GAA $\operatorname{G} G A A C C G G G G A A A A G G A A T A A G A G A A A A G G G A G G G G G$ $G C C A A A A G G A G G G A C G A G A C C A G A A G G A A G G A A A A G G G G C C A$ A A A A A G G G A GAGGGGAAACAGGAAGGAAGAGGGAGAGAAGAG $G C C G A G G A A G G A G C A A A G G G G G A A A G G G G G G G G A A A A A A G G C$ C G GCCAAG G G G A A G GAA A GAAAAC CAACGGAGGGGGCGAAA G G GAAGGGGGTTGGGGCCGAAACCGGGGCACAGGGGGAGGAGA

AAAGGGGCCGGGGGGAGGGAACCAAAAAAGGCCAAAGAAAAA
 A A G GAA A C C G G G G G GAGGGGGAAGGGGAACCGAGGGGCAGGA TAAAAAGGGCCGGGGCCAGGGAAGGGGGAGGAGAAAAGAGAG A GAAGAACAAGAAAGGCGAAGGGCAGGAGGGATGGAACAAAG G A A G G G G G G G G G A G A A G G G G G G A G A G A A A C C G G G G C C G G G G A A GACCAGAAGAAAAAGGAAAACCAAACGGCCGGCCAAGAAGA GAAGGGAGAAAAGGGAAGGAAAAAAAAGAGGGGAGAGGGGGG GAAGGGGAAGGAAAAAAAAAGAGGGAAACCCGGGAGACAGAG A G G G GAGAGGGGGGGACAAGAGACCAAGGAAGAAGGGAAGAA CAAA $A \operatorname{A} A A C G G C C A G G A G G G G A G G G A G A G C A G A A G G G A G A G G$ A G G A A G G A A A A C C C C G G GAGAGGGAAGAAAAGGAACCAAATA G G G A G G A C A GAAAGGCCGGGGACGAGAGAGAGGGGCCAAAAA
 AAAAGGGGGAAGAGAAAAAAGGGAGAAGGGGCCCCCCAAAGAA AA $A G G C C G G G G G G G A A A A G A G A G A G A G C A G G A C G G G A G A G G C$ A G G G G G G G G G A G A A T A G G G A A G G G G T T G G A C A A A A G A G A G A C AAAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGAG $A G G C A A A G G A A G G G G A A A A A A G G G G A A A G G G A G G G G G G A A G G$ A G G A G G A G A G G G G G A A A A G A G G A G G A G A G CA G G G A A A G G G A G GAAGGCCAAGGAAAAAAGGAAGGGAGAAGAAAAAAGGGGCCA A G G A A C CAAAAAACCGGGGGGCCAAGGAAAAAAGGGG
$C C C C G G A A A A A A A A G G G G A A A A G G G G G G A A A A A A A A G G G G C$ C G G A A A A C CAA A A G GAA $A \operatorname{AGGGGGGGAAGGAAGGAAGGCAAAA}$ A A A C C A A G G A A A G A A A G G G A GAGGGAGAGGAGGAAGGAAA GA A A A A A A A G GAAAAAAGGGGGGAAGGAAGGAAAACCAAAAAAA GAGAGGGACGGAGGAAAAACAAAAAGGAGAAGGAACAAAAGG GAAGGAAAAGAGGAAAAAGGAAAAGGAGGAACCBAAAAAGGG G G A A A A G A GCCAA G GAAAGGGAAAAAACCGGGGCGAAAAGAA GAGGGGAGGAAAGAGAAAAGAAAGGGAGAAAAAGGAGGGGGA
 AAAACGACCAAGGAAGGCCAAAGGGAGAAGGGGGGCAGGGGG GAA A G G G G G GC G A A A GAGGGGAAACGAAGGGAGGGGGCCGGG G G G A G A A G G A G A G G G A A GAGGAGAAAAGAAACAGGAGAAA G G $G C C A G A G G G G G A G G A A A C C G G G G G G A A A A G A G A A A A G G G G G A$ A G G G A G G A A A CAGGGAAGGAGAAGAAGACAAAACCCCAAAAG G G G G G A A G GAA $A \operatorname{GGG} \operatorname{GA} A A A G G A A A A A G G G G G G G A A A A A A C A A$ A G GAA A GAAGGAGAGCCCAAAAAGGGGAGCAGGAACCACCAG G G G A A C C G G G G A A G G G G A A A A C C A A G A G G G G G G G G A G A G G A A GCCCC G GCAA GAACCAGGGGGAGAGAGGAGGAGGGGGGAAAG GAAAAGGGGAGGAAGCCAGGGAGAAAAAGAAGAAAAGGGGGG GAAG $A \operatorname{A} A A A A A G G G G G G G A A G G A A A G A G A A G G G G G A G A A A A G G$ ACCTAGGGGAAAAACACAGAAAAAAAAGGAAAGGGGAGAAAG A G G G G G G G G G G G G A G A A C A G A A A G G G G A T T T G G G G G G A G C C A A G G G G G GCCAA G G A A A C A G A A G G G G G G G G C C G A G G A A G G G G A
 GCCGGGAGGCAGGAAACAAAAAAGGAAGAGGGGGGAAAAGAT T G GAACCAAAGAAAAAAAGCAAAAAGGGGAGAAAACCGGGGG G G GAA A G G G G GAAA A GAAAAAACCAAGAAAGAGGGGGGAGAA G A A A G A GAAAGAAAGGAGCCAAGGAGGGGGAACCGGGAAGABA A A C A G G G A GAA A A T T G G G GCCCAGGGGCAAAAACCGGAAA GA AAACAGAAAAAAAAGCAGAAAGAGAAGAGGGAGAAAGGGATT A A A A A A G G GAC G G A A G G G G G G A A A TAA A C G G A A A G A GA GA G C AAAAAGGAAGGAACCGAAGCCAAAGACGAAGAAGAGGCAAAG GAGAAAGGAACAAAGGGAAGGAAGAAGAAGGAGAAGAAAGGG GAAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGGA AAGAGCCACGGAAGGGAAGAACCGGAAGAAAACGCGAAAAAG G A A A A A A A A A A A A A A A A A A A A GAAA A A G G G G G G G G A A A A G G G GAAACAGGAAGAATAAAGGGAAACCAAGGAGGAGGGAAGAAA

ACAAGAAGGAAGGGGAAGGAAACAGAAAAGCGAGGAGCAAAA $A G G G G A A A A G G C A G G G G G A A G G G G G A A A A A G G G C C G G A G A A G$ GAAGGGGGAAAGACCGGGGGGGGAAAAGAAGGAGGAAAAAGAG AAGAGCAGGGGAAAAGGGGAACAAGAGAGAACCGAACAAAGC CAACAGCGACCAGGGAAGAGGGGGGCCAAAAGGGAGAGAAGA
 AAAGGCAGAAGGAGAAGAGAAACAAGAAGGGAAGGGAACAAA AAAGGAAAAGAGGAAGGCAAAAAGGCCGGAAAAAAAAGAGAA $A C A G A A A G G G G A A A A G G C C G G G G A A A G A G G G A G G G G G C C G G A$ AGAGCAGAGGGAAGAAGGGACCACCGGCCAAGGAAGAAAGGG GAAGGGGAAGGAAGGAGAAAACACCGAAAACAAGGGGAAAAG
 GCCGGAAGGAAAAGGAAAAAAGGCCAAGGAAGGGGGAAAAAG GAAGGAAGGAAGGGGGGGGAACCGGGGGGAAAAAAAAAAGGC C G GAAAAGGAAAAAAAAAAGGAAGGAAAATTAAAAAAAACCA AAAAAAAGGAACCGGCCAAAAAAGGGGAAAAAAAAGBAACCG GAAAAAAAAGGAAGGGGAAGGAAAAGGGGGGAACCAAGAAAT TAACCAACCAAAAAAGGAAAAAAGGGGAAAAGGAAAACAAGB $G C A G A A G G G A G A A A G A G A C A G G G A A G G G G A A G A A A A A C A A G C$ A A A G G G G A A G G G GAGACGGAACCAGGAGAGACCGAAGGAAAA A G GAAAAGGGGCCAATTAAAAGGGGAAAAAAAACCAAAAAAA A G GAACCAAGACACACCACCCGGCCGGGAAGGATTAAAAGGG GAAGAGGAGGAAAGGAAAAGGCCACGGGGAGAAGGACAAAAG G G G G G A C A G C A G G G A A A C A G C A GAGGGACACGAGGGACCGGG G G G A A A C G G G GCC G G G GAGAAAA A A A A G G GAGAGAGAG GAA G A GAAGACAAACCAACCGGGGCAGAAGGGTTAAAACCGAGAAGC C G G G G G GCCCCGGGGAGGGAAAAAAAGAACAAGGAGGGAAAA A A G G G G G A GCCGGAAAAGGAAGGGGAAGGGAGAGGGAAAAAG $G C C A A G A A G G A G A G G A G G A A G A A G A A G A C C A G G A A A A A A G G G$ $G G A A A A A G G G G A A G G G A A C G A A G A A A A A G G A G G G A G G G A G A G$ ACCAAAAAGAAAAAACCCGGGAGCCAGGGGGGGGAAACAAGB G GAGGCGGAGGCCGGAGAACCCAACGGGGAAAAAAGGAAGGC
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G G G G G C C A G A G G G G G G G A G G G A G A G A A G G A T G G A A G G G G G G A $A G G G A G A A G A G G A A C A G G G G G G G A A A A G G G A A G C C G G A G A A G$ GAGCCGGAAAAAAGACACCGGGGAGGAAGTAAAAAGAAAAAA AAAAAACGGGGGGGGGGAAAAAAGGAAGGAGAAGGGGGAGGG ACCAAGGGGAGCAGGAACAGGGAAGCAAAGGAAAAAGGGAGA A G GAGCCGGCCAAGGAAGAGGAAAAGGGGGACACAAAAGAGG A G G G G G G C G G G G G G GAGGGGGAGGGAAGACAAAGGAACAAAG G G G GAGCAGAGAGGCAGGAGAGAAGGAGGAAAGCCBAAAAAG A ATAAAACCCCGGGGGGGGAAGGCCACAAAAAAACCAAGTTA GAAAAAAGGGAAAGGGGAAAAGGGACCGAAGAGAGAAAGGGG G G G G G T T A A C G G G G G G G A A C A G G G G C C G G A G G G A A G G G G G G G G G G A C G A A A G G A G C C A G G G GAA $A \operatorname{AGGGGGGGGGAAAAAAAAAG}$
 G G G G G G G G G C A A G A G A G G G G G G G A C G G A A C C G G A A C A A A G G G AAAAGAAAGACAAAAGGAACCACGAAATTACGGCCGGGAAAG A GACAAGGGAGGAAAAGAGAAAAGGGGGGAGCCGGAAGAGGG
 A A A A ACCAGACGAATGAAAGGCAGCAAGAGGCGGGAAGAAAA ACAAACCGAACAAGGCCGGAAAAACGGAAAAACAAAAAGGGA GAAAAAACCAAAAAAAAAAAGGGAAGAAAGGAAGBAAAAGGA A G G G GAGCCCCAAAAAAGGAGGGAAGGGGAAAGAGGGAAAAG G G GCC $C$ G G A A A A A G G G G G GAGGAGGGGGGAACCAAGA
 GAAGGAGAGAAAAAGAGAAAAAGCCAGAGGAGAAACCBGCAG
 CAAAAAAAAGGGGAAGGAGGGAAGGGGAAGGAAAAAAAAAGA GACAAGGGGCCGAAACAAAAAGGGGGAAGCCAAAAAGAAAAG C G G A A CAGGCAGAAACCAAAAAAAAGGGGAGGAACGAGAAGAC CAAACCCACGGCAAGACGAGGAGAGAGAAGAACCCGACAABA GAGACAAAAAAAGAGGAAGAGGCAAGGAGTTGGAGAGCAAAG GAAGGAGGAGGACGGAAAAAGGGGGGGCAGGAGGGAGCAAAA CAGAAGAGGGGGAAGAGGGAATTGGAAAAGGAAAGGGGGCCG
 GCCGGGGCCAGAAAAAGGAGAAAGGAAGAACAAAGAAGAAGB GAAGGGGGGAAGGGGAAGGGGAAGGGGGGGGGGGGAAAAGAA $A C C G G A A A A G G A A C C G G A A G A G A A G G C G G G G A A G G A A A G A G G$ GAAGGGGGGGGACGGAAGGCCCCAGCCCCGGAGGGCCGGGGA A G GAA A A A CAAAAGAGGGGAAGGCCAGAAAGGGGGGAAAAAA GAGGACCGGGGCCGGAAAGAGGAGGAAAGAGAAAACCAAGAA CACAACAAAGGAAAAGGACAGGGGGGAGACCGGAAGGABAAG AAACCGGAAGAAAGGGAAGAGCCGGGAGAGGAACAAGAAAAG G GAGGAGACGAAGAGAAAAGGAGGGGGAAAAAAAAGAAAAAA A GAGAGGAGGGAAGGGAACGGAGACAAGGAAGGGGGAGAAGG GAGAAGGAGGGAGGGAGAGAGAGCCAAACAGGGGGGGAGGBA
 G G G A A C C T A G A A A A G C C G G G G A A G G G G C C G GAA A A G G G G G G C
 A GAGGGGGAGAAGGAAGGAAACCGAACGAAAACGGGAAAAAA

 A A G G A A C G A G G A A GACGGGGACCAGACAAGAGGGGGGAGGAC C GAAGGGGGCCAGAAGAGGGAAAGGCAAGCAAAGGAGGAAAT
 ACAGGGGGGAAGGGGGAGGCCCCGGAACCGAAAAAGGAAGAA GAAGGCAAACCCACCAGGACCAGCCTTGAAGACGAAGACAGB G G G A A G A G GAGGGAGGGAGGGCCAACCGGGGAAAAAAGAAAA A A A A A G G G A C C G G A A A G GAA A A GAGGGAAAACCAGGGGAGAA GAGGAAAAGGGAAGGGGAAAAAAAAAACAAAAAGGGAAA G GA AAAGGAAAAAAGGAAGGGGAAAAGGGGGGGGAAGGAAAAGGG

G G G T T G G A A G G G G G G G G G G A A G G A A G G G G A A G G A A A A G GAA A A A A G G A A A A G GCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAG GAAAAAAAAGGGGAAGGAAAAAAAAGGGGGGGGAAAAAAAAA A G GAACCAAGGGGGGGGAAGGGGAAGAGGAACAGGAAAGGAC ATATTGGAGCCACCAGGAGACGGGGAAAACCGGAGAACAAAG A GAGGGGGGACGGGAGCGACCGGGAAGAAAAGAAAAAAAAAA G G GAACCAAACGAGGGAAGAAAGACAAGAGGGGGGAAAAAAG $G C G A A G G G G G A A A G G G G G A A A C A G G G G C C G G G G A A A A A A G G A$ A A A G G G G G G A A A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G A A A A C A C A A$ AGGGGAAAACCGGCCCAGGGAAAAAAAGAGAAAAAG GAAAGG G G GAA $A \operatorname{G} G A A G C G A A A A C C G G A A G G A G A A G G A A G G G G G G G A G$
 A G G GAGGGAAAAAAAAACAAGCAGAGGAAGGAATTGGGAAAA A G G G G A A G GACAAGAAACAGGCCGGCCAGAACCAACCCAAAA A GAGAGGAAAGGGGAAGGGGAAAGGGGAATTGGACAAAAAAG GCCGGAAGAGGGGTTGGCCGGAAAAGAGAAAGGGATTACAAA A A A G G A A G G G G G G A A G G GAGGCCCCAAACAGGGGGAAAAG G G ACAAAGGAAAGGGGAAAAACCGGACAGAAAAAAAAAGCAAAA ATTAAAAGGAAAGCCAACCGGGGCCGGGGGGGGGGGGCAACA GATAAAGGGAAGGAAGGGGAGGGAGGAGGAGACGGAAAAGAA AAAGGAGGGGAAAAAAAAAAAGGGGAAGAAGGGACGGGAGGA A GACCAGAAAGAGAGGGGGGGACGAAGTACAGGACAAGAAAA GAAGAAACCAGAAAAAACAGGGGGGGGAGGGGGAGGGCCCCG A G G GAGGCCCCAAGGAGCAAAAAAAGAAGAAAGAAGGAGGAG GAAAAAAGGAAAAAGAAAAGGTTGGGGGAGAGGAGAAGGGGA AAAA A A A G G G GAAA $A \operatorname{AC} C G G A G C A G G C A G G A A G G G G A A G G G G A$ A G G G GAACCGGCCAAAACCCCACGGCCACGGCCAAGGAAGGG A GACCGGAAGGAAAAGGAAGGGAAGAGAGAAAGAGAACCGAA A G G G G A A A A G G A C A A G A A A G GAAAAAAGAAAAGGGGGGA G GAA $A G G G G A A G G G G G G A G C C A A G G A G A G G A A G G G G A A A A G A A G G G$
 A G GAAAAAACCGGAGGGAGGGACGGAGGGAAGAGAACATAAG GAGGACCAAGGAAAAGGGGGGAAAGGAAAGGCAGGGGAGCAA $A G G G A G G G G A A A A G G G G T T G A G G A C A A G G A A G G G G A G G G C C A$ GAAGGGAAAGGAGAGAAAGGGGAGGGGGGAACCAAGGGAGAA
 G GAGGGAGGGAGAGGAAGAAGGGGGGGGACGCCGGGGGGGGG AAAGGAGGGCCAAGAAGGGGAGAGGGGGGAAAAACGAGAGGA $G G A A G A A C G G G A G G G A A G G A G A G A A A G G A G G A A G G A A A G G B A$ A GGCCAAGGAAAAAAAAAAGAGGCCAGAAGAGGGACAGAAAA $C G G G G G G A A G G G G A A G A A A A A G G G G C A A G A G A A A A C C A A G G A$
 AAGAAGGAAGGAAGGCAGGAAAAGGTAAGCCAGCCAAGGGGA A A A A A A A G G G G GAAAAAGGGGCCGGAACCAGAAGBAGAGAAG A A G G A A A G A A GCC GAGAGGAAGGGAAAGGGAAAAACCTXGAG GAAAAGAACAGAGAGGAAAGACCACAGAGGGAAGGAAGGGGA CAAAA $A \operatorname{A} A A A A A G G G G G G G G G G G A A G A G A A G G A A G A G A G G G G C$ A GAGGAAAAAAAGGAAGGGGGAGGGGGAACCCCCCCCCAAAG GAAGGAAGGAAAAAAAACCGGGGCCAAGGAAGGGGGGGGGAA AT T $T \mathrm{G} G \mathrm{G}$ GAAGGAAAAGGGGGGGGCCCCAAAAAAGGCCAAGAA ACCGGGGAAGGCCAAAAAACCGGGGGGGGAAAAAAAAAAAAA A A A A A A A C C A A A A A A A A G GAA G G G GAAAA A GAA A GAA G G G G C C A A A A A A T T A A G G G G G G G G A A G G A A A A A A $\mathcal{A} G A A A G G G G G G G G$ G G GAAAAGGGGAAGGAAAACCAAAACCAAAACCAAGGGGGGG G G G G G A A G G G G G G A A G G A A A A A A A A G G G G G G C C G G G G A A G G A
 CAACCGGAAAAGGGGAAAAGGAAGGGGGGGGGGAAAAAAGAA A G G G G A A A A A A A A G G G GC C C C G G G G G G G G G G G G G G A A G G C C A AAAAAGGAAAAGGGGAAGGGGAAAAAAAAGGAAGGAAAAAAA

AAACCGGGGAAAAAAAAAAGGAAAAAAAAAAGGGGCCAGAAG GAGAAAACCAAGGAACCGGGGAAGGGGAAGCAAGGGGCAAAG G G G G A G G A G G G A A GAG GAGGGAAAACCCCAGCAAAAAAAGA G GAGGGCAAAGGGGAAGGAGGAGAAGACAGGGAAAGGGAGAAA GAAA $A$ A $A \operatorname{G} G A G G G G A G A G G A A G G A A G G G G A C G G G G G A C C G G G$ G G G G G A A G GCCAAGGAGCCGGCCAAGGAAGGACCAAAAAAAA AGACCGGGCCCGGAAGAGGGGGGCAGAGAAAGAGAGGGAAAA AGGAAAACCAGGGGGAAAAAAAAGGGGAAAAAGCCAAGGGGA A A A A A G G G GAACAAAAGGGAAAAGAAAAGATAGAAAGGAAAG GAGGGAGAGGGGAGGCAAGCAAGGGGGGGAGAAAAGAGAGAG A G G G G G GAA $A \operatorname{GAA} A A A C \subset A C C G G A A G G A C A A G G A A G G G C C C G$ GCAGAAAGGAGGGAAGGAGAACAAAGGCCAAGGGACAACABG G G G A G GAA $A \operatorname{GG} G C X A G G G C C G G A C G A G G A A A G G G A A A A G A A G A$ GAAGGGAGAACGGGGAGAAAAAGAACCGGAAAGAGAGGAGGG GAAAAAAAAAAAGAGGAAAATGGAAGAGGAAGAGAGAAAGGG GAA A A A A GAGGAGGAAAAAGAAGGGGAAGAGGGAGGGGAGGA A A G GAGGAAAAAAGGGAAAGGGAAAAAGGGGGGGGCCAAA GA AAACCGAACAGGAAAAAAAGGGGGGAAAGCCAACCGAACGAA CAGCCGGAAAGGAACAGAAGGAAGGGAGGAAACAAACCCGGA GAA A A A C G G G G G G G GAAAGGGGAAGAGAGAAGAAA GAAAGBC CAGGCCAAATTGGAAGGGGCCCCAAAAAGAGAAAAAGGACCG GAAAAAGCCAAGGAGAAAGAGGGGGCCACCCACAGGG
G G A A G G G G G GCCAAGGGGAAGGAAAGAAGGAAGGAAA GAGG GAAAGAGAGGAACAAGAGGGAAGGGGGAGACAGAACCBAABAA A A A A G A A G G A G A A A A G A G G A GAGAAACGGAAGAGAAA GAAAA A A A A A G G G GAAAA $A \operatorname{A} G \mathrm{G} G A C A A G G A A G A G G A G A A G G A G G G G A G$ G GAAAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCGAAAG GAGGGGGAGCACCGAACGGGGTAAGAAGGCCAAAAAACCCCG G G G G G G G A A A A G G G A A A G G A G G A A G G G G G A A A A A A G G A GAA A G G GAGGAAGAAGAGAAAAAAGAGGAGGGGGAGAGGGAGACCB G GAAACCGGGGAAGGAAGAGGAGGGGGGGAACAGAAAGACAC $C G G A G A A A G G A A C A A A A A G C C A A A C A G A A G A G G A A A G C C G G A$ GA $A$ A $\operatorname{A} A \operatorname{A} A A G G A G G G G G G A G G G G G G C C G G A A G G A A G G C C G A A$ A G GAAAAGGAAGAAAAGAACCGGCCGGAAAAAAAAGGGGGAC CA $A$ A A A A A A A T G GACGGGGGGGGGAAAAGAACCAAAAAAGGG G G G G G GAAAGGGGAAGGCCGGCAACGGGGAAAAGGCCGAACA AAAGACCAAGGAGGAGGAGAAAAGGGAAGAAGGACCCGGAAA G GAAGAAGGAAAAAGAGAGCAAAGGCCAAGGGGAAGGAAAAA A G GCCAAGGGGAAAAAAAAAGGAAAGGGACAAGAGAGAACAG A A GACGGGGAAGGACAGAGAAAAGAGAGGCCGAAACAAAGAA AAACAGGGGGAAAAAAAGGGAGGAAGGAGACCCGGGGGAAAA A A A G G G G G G G G A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} A A A A A G G A A A A A A A A C C G G A A G G G$ G GAGGGACAAGAAGACAGGACAAGGGGGGGGAAGAAAAGGGG $A C C C C C C G C G G A A C A G A A A A G A A G G G A G G G G G G A T A G C C G A C$ C G G C C A A A A A G A G G G A A G G G G G G A G G A A G A A A A G G G G G G G G A
 A ACAAAAAAAGCCGGAGAAGGGGAGAAGGAAAACCAGAAAAG $G C C A A G G G G A A A A A A A A A A A A A A A A A A A A C C A A A A A A A A A G G$ G G G G G GAGAAGGACCGGAAGGCCAGAAAAGGAAAAAGAGAAA A G GACGAAGGGAGGAAACAAAGGCCGGGGAAAAAAGGCCGGA $G C C A A A A A C A G A T A G A A G G G G G G C C A A G G G G C C C C A A C A A A G$ GAGCGAGAAAAGGGAAGGGAACCAAGGAAGGTTCCGGAAGAA A C A G A A G A G G G A G G G C A A A GAGGACGGAGCAAAAAGGGACAC ACCAAAAGACCAGAGAAAAAGCAGAAAGGAAACAGGGGAAAA A A A G G G G G G G G A A A A G G G GAAC CAAAAAAAAGGGGGGGAAAA G A GAGAGAAGGAGAGGAGAAAAAAAGCCAAAACCAAAGAACAG GAAAAGAAGGAGGGGGAGAAGAGAAGGGGGGGGGGGGAAAAG
 AAGACAGGACAAAGGCCCCAGAGCACCGGCCCCGGGGAAGGG

G G A G A G G G G G G G G G G G G G G G G G G A T G A G G G G A A A G C A A G A G G $A G G G G C A A G A A G G G G A A G G G A A A G G G G G G G A G G G A A G G A G G C$ A G GAGAAAAGGAAAGGGAGAAAAAAGGAGGAGGCAAAAAA GA $A C C A G C C A G A A A A C A C C C C G G G G G G A A C C A G G G G G C A A A G G G$ G G GAGGGGGGGGAAAAAAAAAGGAGAGAAGGGGGAGAAAGAA AAAGGCCAAAAGGGGAAGAGAAGGGGGCACCGGAAAGAGGAA GA $\operatorname{G} A \mathrm{~A} A C C G G A A A T T G A A G G A A G G G G G G G A G A A G A G A A A G G G$ AA $A$ A $G A C A G G A A G G G A A G G G G A A A G A A G A G G G G A G A G A A G G G$ A A G A A A G G G G A A A G GAA $A \operatorname{GGG} G A A G C A A A G G A G A A A G G A A G C G$ G G GAAAAAAGGAAGGAAGGAAAAAAGGGGAAGGGGCCGGGGA AAA A GAAGGGGAAAACCAACCGGAAAAAAGGGGAAAAGAAAG GAAG $A \operatorname{AC} C G G G G G G G G G G A G G G A A G G G G G G G G A G A G C A A G G G G$ G G G G G G G G A G A A C G G G G A A G G G G A A A A G G A A A G G G C C G G G G G G G G G G A A G G C C G G G G C C G G A A C C A A A A A GAC G A G G A G G G G G A G G GAAGACCAGGACCGGGGAAAAAGACGGGGAAGGGAGAACA AGGGGCCGGAAAAAACAGAAGAAGAAGAAAGAAAAGGAGGGA A GAAACCAAAAGGAAAGGAGGAAAAAAAAGGACGGGGGAGAA A G GCCGACCAAGGAAAAGAAAAAGGAAAAGGGACCGGGAAGA
 A A A T T G G G G A G G G A G G A A A G A G G A A G G A G A A G G A C C A C A A A A AAGGGAGAAGAGAAGAACCGGAGCCTAGGGAAGAAAATACAC C GAGGGGGGGGAAGGGAGGGGAAGGCCAAGGGGAAGGAAAAA AAACAGAACGAGGAAAAGGAACAGGGGGGGGAAGGAGGACCA A A G G G G G A C A G G G A A G G G A A C A G G G G G G G A C A A A A C C G G G G G G G G G A G A G A C G A G G G C A A G G G A A C G C C A A A C A A A G A G G G G G A AAACCAACCGAAAAGAAAAGGGAAGAGAGAATTCAGAAAGAA A A G G GA A A GAA A A GAGGAGGAAGAGGACAAGAGAAGGCGGGA A A G G A A A A C A A G G A GAGGGGGGGAAAAGAGAAGAAGGGAAAA G G G G G GAAAAAACCCGAAGGACCGAAAAAAGGGGGAAAAAAA A G G G G G G CAAA A A A $A \operatorname{AGGGGAGAAACGAACGGAAAGACAGGAA}$ A G G G G A C A C A G A G A G A A A A G GAA $A \operatorname{AGAGGGAAGGCCAAAAAAG}$ GAGACGGGAAGGAACAGAGAGACGAGGGGAAGGGGAAGACAA A G G GAA A A G GAGGGAGGGAGAACGAAGAGAAGGAGAAAAAAG G GAGGGGAACCGAGGAGGGAAAGAGGAGAGAAGGAGGGABAA A GAGAAAGAAACCAACAAAGGAGGGGACAGGAGGGGAAAGGG GAACCAGAAGAAGGGAGGGACGGAAAAGAAGAGAGAAGAAAG A GAGGAAGAGAGGAAGAGGGGGGCCGGAAAAAGGGGAAAAAG G G G G GA ACAGGAGGAAAAAGGGAGGAAGGGGAAAGGAAAGAA G A A A A A G A A A A A G G G A C A A G G G A G G A A G G G G G A G A A A G G G G G
 AAAAAAAGGCAGGCAGGAAAAAAAAAGGAGAGGGGGAGAAAA G G G C C G G A G A A G A A G A A G G G G G A G G G A A A G G G G A A G G A A A A $G$ GAAAAAAGGAAAAAAGGAAAAGGGGCCGGAAGGAAAAAAGGG G G G A A G G A A G G A A G GAAGGCCGGAAGGGGAAAAAAAAAAAAA A G G A A A A A A A A G G G G G G G G A A G G A A A A A A G GCCCCCAGAACA AAAAGGGCCAAGAAGGAAAAAAAAGAAGGCAGGAGAGAAAAC CAAGGAACAGGAAAGGGAGAAGGAAAGAAGGAAAGAAAAAGA G G GA $\operatorname{l}$ A A A GAGAGGAGGGAAAAGCCAAGAGAGAGGAAAACAA G GAAGGGCAAAAAAAGAAGGGAGGGCCAAAGAAAAGAAAGAC CAAGGAGAGCCGGAACCAGGGACGACCGGGGAGAAAAGGGGG GAAGGAAAAAGAAGGCAGAAAGGAAGGGGAGGGAAAGAGAAA A A GAA A A GAAATTAAGGGAGGGAGAAAAGGAAAGAGACAAAA GACAAGGGAGGGACCGGGGCCGAGAAAGGAAGGGGAAGACAA AGGGGGAAGCCAACCAAGGACGGACAAGGCCGGAAAAAGAAG G G G G G G G A T G G A GC C A G G G GACC G A CAACAGGACCAGGGGGC A G G G G G A G A G G C A A G G G A C A A G G A GCC G A A G CA A G G G A A G G G GAAGGGACCAAAGAGAAAGGAACAAAACCAACAAAGGCAGAA $A G G A A G G G G A A A G A A G G A A A A G G G G A A G G A A A G A A G A G A A G A$ GAAGGAGGGGGGAGGAAAAGGGGAGGAAGCCAGGACACAAGG

AAAAAGGAAAAAGAAAGGGAAAAGGGAAAGGAGGGAGAGGAA
 $A G A G G C C G G A G G A G G A C G A G G C C A C G G G G G A G G G G A G A G A G G$ A G G GAACAGCCAAAAAGGGGGGGAAGGGGGGAACCAAAAAAA A G G A A G G G G G G G GAA $A \operatorname{AGGGAAGGAAGACCCAAAAACAAGGGC}$ C C C G G A A G G G G G G G G C C G A A G CA $A$ A A G G G A A A A A A A G G A G A G A C G A A A GACAGGGAGGGGAAAGAAAACAGGGGGGGGAAAAGAG AAAGAGGGGAACCGGAAGGGGAGGACCAGGAAAAGACAAGGA GAAGAGGCACCAAGGGGCCAAGGAAGAAAGGAAGGGGAGAGC CAAGGAAGGAGGAAGAGGGAGAGAAAGAAGGAAAAAAGAGGA A A A G G A A G G G G A G A A G G G G G G A G A A A G G G A G G G G G A A A C G A $G$ GAAAAAAGGAGAAGGGGCAAGGAAAAAGAGGGGGGGGGAAGA
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CCGGAGGAAGAACACAGGGGGGAGAAAAAAGGGAACCAAGA GAACCCCGAGGCAACGGGACCAGGGGAAGAAAAGGGGGGGGG G G G A G G G G G G G G G A A G G A A A A A G G GAAA A G GA G GAA A G GAA T TAAAAAAAAAAAAAAGCGAGGGACAAAGGGAACAGAAAAGAG G GAAAAAGGGGGGGAAAAAAAGAAAAGCCAAAGACGAGGACC A A A GAA A GAAGGGGGGAAAAAGAGGGGAGGACCAAAAGACAA AAAGAAGGAAAGAGGGAGAGGGAAGAAAGAAGGGAGAAAAAG AATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAA C G G G G A A G G G G G G A A A A $\mathcal{A} G A A G G C C G G G G G G A A G G A A G G G G G$ GAGGGGGAAAAAAGAAGGGAGGAGGAGGGCCGGGGAAAAAAA A A A G G G G G GAAAAAAGGCCGGAAAAAAGGCCGGGGGGAAGAA
 A G G A GCCAGGGGGGAGGGGCCGGGAAGGGGGAGAAGGGAGGC CAA A G GAGGGGGGAGGAAAAGAAAAAAGGGAAAAACCAAA GA AAAGGCCCCGGGGAAGGGGCCAGGGAGAGAAAGGGGAAAAAG GACAGAAACGGAGGAAAAAGAGGAGAGAGGGAAGGGGAGAAA $C \subset C G G G G G G A A A A A G C A G G C C A A A A A A A A G G G G A A A A A G C A A$ $A C C G G A A A G G G A A A A A G G G A G G G A C G G A C G G G G G G A G E A A A A$ A G G G GAA $\operatorname{G}$ GAAGGGGAAGGACGGCCAAAAGGAAAAGAAACAA A $G \operatorname{G} A C A A G G G G G G G G G G G G G G G G G A C C A G A A C C G G A A A G A G C$ $C \subset A A A A C A A C C C C A A G G A A A G G A C A G G G G G G A A G A G G G A A C A$ G G GAAAGACGGCCCCCCGGAAGGGGGGAAAAAAAACAAAAAG G G G G A A A A A A G A C CAA $A \operatorname{ACC} C A G G A A G G G G A G G G G G A A G A A G A$ A ACGAGAGAGAAGAAAAGGAAGGAAGGGGGGAAGGAABAGAA A G GAA A G GAAA $A \operatorname{AGGGAAAAGGCAAAGGAAAAAAGGAAGAAAG}$ GAAAAAAGGAAAAGGAAGGAAGGCCTTAAGGGGACCCAAGAA AAAAAAGAAACACGGGGAAAAAAGAGGGGAAGGAGAAAAAGG G G G A C C C A A G A A A A G G GCC GAAACCGGAACCAAGGAAAGGGA A G G A A G G G GAGAGAAGGAGAAAAGGCAAGGGCACAAAAAGAA AACGAGGAACCAGAGAGCAGGAAGGCCAGAAGGGGGGGAACB A A G A A GA G A A A G G G GAGGGGGAAACGGAACCAAGGAAAAAAA AAAAGGAAGGGTTAAAGGGGGGGAAAGCCAGCCGGAGGGAAA GAAAGAAGGCCGGAGCCAAGGTTGGGAGGGGAAAACAAAGAA GAAGAAAGGGGAAGAAAAAGGGGCCAAAACCAAGABAAGGGG A G GA $\operatorname{G} A A C A G G G G G G G A G A C A A A A G A G A A G G G G G G G A G G G A A$ A A A A A A G G A GAGCCGAGAGAAAAGGGGAAAAAGGGAA GAA GA AAAGGCCGGGGCCGGAGAATAAAAAGGAAAGAGAGAGAAAAG

A G GAAAAAAGGGAAAGGGGAACCAGGGGAGGAAGGGGGGGGG GAA A G G GAA $A \operatorname{G} \operatorname{AC} C A A A A G G G G G G A A A A G G G G A A A A A A G G G G G$ GAAAAAAAAGGAAAAAACCAATTGGAACCGGGGAAGAAAAAG GCCAAAAGGGGGGGGGGGGAAAAGGAAGGGGGGAAAACAGGG G G GAAAAGGAAGGGGGGAAGGAAAAGGAAGGAAGGGAAAAAG GAAGGCCGGGGAAAAGGGGCCAAGGGGAAAAGGAAGGCCCCC C G GAGGGAAGGAAAAAAAAGGGAAAGGGAAAGGTTAAAAGAT TAAAGAAAGAAAACCACAGAGAAGGCAGGTTAAAACACCGGC AA GAAAAGGCCGGAAAACCAAAAAAAAAAGGGGCAGGAGGAA A GAAAGGGGGGGAGAGAAGAAGGAGAAGGGACAAAGGAGAAG GCCGGGAGGGAGGAAAAGGAGCAAAGGCAAGGAACACGGGAA GACGGAAACGAGACCAACCGGGGAACGAAAACCAAAGAGAAC
 GACAA GC G GA GAGACTTGGAGAACACGCCGAAA GGGGGAAAA GAAAGAGCAGAAAGGAAGGAAACGGGAGGGGATGGAAAGGGA G G G GACAGGAAAAGGGGGGCCCCGAGGCAGAGGAGCAGAAGA G G GAAGACCGAGGCAAAAGGGTACAGAGAGAGCCCGAACAAA A A A A C A A A GAA A GAACCAAAGGGAAAGACAGACAAAAGACAC C GACACCGAAGGCGAGCAAGGAAAAAGAAGGGAAAGGGGGGG GAACAGGGGAAAAGACAAGGAAGACGCCAGGAAGAGAAAGGA $A C C A C A A A A A A G A C C C G G G A G G A C A G G A C A A A A A A G G A A G G A$ A AC GAGGGGAAAGAAGGAAGGAGAAGAGGAAGAGGGGAAACAC $C G A G G A A G A G G C C G G G G G G G G A G G G G G A G G A G G C A G G A G G B A$ A G G G G A G A A A A C A G G G A G G G A A A G G A A G A G G G G G G G G A A G G A $A C C G A C A A G A A A A A G G A G A G A G G G G G G A A G G A A G G A A G G G G A$ A G G A A A A A G G A G G G G G G G G G G A A G G C A G G T T G G G G C C G G G G A A GAAA A G G G GA G G T T A A G GAAA A A A G G G GAAC A A A G G G G GA A AAAGGGGGGGAAAGAAAAAAGAAAGAGGGAAGGAAAAGAAGA A A A G A G G G GCCGGAGACGGAAAGGAAAAAGGGGCCGGAGGGC CAAGGAAGGCAGGAAAGCAAACAAAAAAAAACCBAGAAGGGG GA $A$ A A $\mathcal{A} G G G G G G G A A A G C C G A C C G G A G A A G G G G G G C A A A G A A$ GACGGGGAAAAGGGAAAAACCGGGGAAGGGGAAAGCCGAGGC AAACCGGGACCAAGGAAGAACCAGCAGAAAAGGAAGACCCCC CAA $A \operatorname{G} A A A A A A A G A G G G G G G G G A G A A C C G A A A A G C C A G A A G A A$
 $A G G G A G G A A G A G G G G A G A G G A A G G G A A A G A A A A G G G G A A G A G$ G G GCCGGGGAAAAGACCAAGGCAAGAAGAAGGGGGCCGGGGA G GAGGAGGAAACCAACCAGAAAAAGGGCAGGGGGAACTACC G G G G G G G G A A G G A G A A A GAA A G CA $A \operatorname{AAGGAAGGGAAAGGAACAA}$ C G G G G GAGGAGGGAAAGGGAGAAAGAGAACACCGBAACAAGB GCCGGCCAGACAAAACCGGGGGGAAGAAGCCGAGGAGAGAAA
 A G GAA A A A G G GAGGGGGCCGGAAGGGGAAGGGAGGGGAAAGA GAA A A G G G GCCAAAAACGGGGGGGGGAGACCAAAAAGGGGGG
 A G G A A C A G A G A G A G G G G G G A G G G A A A A A GACA $A$ A A A GAA G G C C C G G A C G G G G G G G GACGGGA GAGGGGGGGGAAAGAA G G G G G G G G A G G G G G G G G A GAAAGGACAAGGGAGGGGACAAAAGATAGAGGA G G GAAA A A GAGGGGGGGAAAAAAAAGGAAAAAGAAAACAAAG G G A A A A A A A A A G G A GAA A GAA $A \operatorname{AGGGGGAAAGGAGAACAAAAA}$ G G G G A C C G G A A G G G C C C G G G G G G A A G G A A G G G G A G A A A A G G C CAGGAGAGGAAACAGGGAGGGAAAAAAAACAAGGAGAGAGAC A A A G A G G A A G A A G A G G A A A C C GAAAGGGGAAAACAAAACGAA AAAAAAGGGGAGGGAAGGGCAAAAGGGGGAAAAGAAACCGGG G G GAAACGGGGAGCCAAGGAATTCCAAAAGGGGAAGGCAAAA
 A A A A G G G A A GAGGAGGGGAAGCGGACACCGAAGGGAAAGAAA G G G G GAGAAAAAGAAAAACACAGAAAAGGAGAGAGGAAAAAA AAGAAGGAAGGCCCCGGAAGGGGAAAAAAGGAAGGCCGAGGC
$C C C C A C C A A G G C A G G G A A G C C C C G G G A G A G A G A G A C G G A A A G$ G G G G G A A G GAACCAGCCCCGAGGAGAAAAAAGGAA GAA GGGG G GAGGGAAAGGAAATGGACGAGAAGAAGGGACAAAGGGGCCA GAAAACCCCGGGGTAAGACCCGACCGGAAGGAAGGAAAACCC CAATTTTGGAAAAGGGGGAAGGGGGAAGGGGAAAACCGAAAG ACCGGAAAACCGGGGGGAAGGGAAAAACCGGAACCAAAAAAC A GAG $A \operatorname{GG} \operatorname{GA} A A A A A A A A A G G G G G G A A A A A G G G C A A C G G A A A A A$ AAAGGCAGACCCCAAAAAGAGGAGGGGGGAGAACCAGAAAAG GAAAAAAAACCGGGGGGAACATAGAGGGGGACAAAAGAAAAG GAAAGAAGAAGTAGGGGAGGGGAGAAAGGAAGGAAGGAAAGA A G G G G A G G GAGGGCCAGGGAAAGAGAGTAGAGAAACCGGGAA A G G G A G G A A C C C C G G G A G G A A A A G G A G G G A G G G G G A A A A G G A G GAAAGAAGGGGACCGGAAAACAAAAGAAGGAAGGAAAAAAG
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G G G GCCAAAAGGGGGGAAGGCCAAAAAAAACCGGAACAAGC C G G G G GAAAAAACGGGGAAAGCCGGAAGAGGAAAGAAGAGAA CAAGGAGGGGGAAGGAGGGAACCGGGAGGGAGGGGAGGAGGA A A A A A G G G G G G G A G A G G A T A A A A A G G G C C G G G G G G G A A A G G G A A GCAGGAGGAAACCGGGAAGGGGAAACAGGGAGAAAGGTTG G G G GAGGAGACAGCCAAAAAAACGGACAACAGAGAAGGGGAG A A G G G G G C A A A A A A A G G G GAA $A$ A A A A G G GAGGAGCCAGAACAA GAAGGAGGAAAAAGGGGAAAGAAGGGGGGGGAGAAAAAGCCC A A GCAGACAGGGGAAGAGGAAGGAGCAGGGGAACAAAAAAAA G G GAA $\operatorname{G} A A A A A A G A G G G A G G A A G A A A A A A G A A A C C A A G G G G C$ AAACCCCGGGAGGAGAAAAGGAAGGGGCCAAGGAGAGAGGAA A G A A A A G A A A A G G A A G A A A A GCCGGAAAAGAGAAGC GACA GA G G G A A A G A G G G G A A GAGAAAC GAGGGAAGACGACCAGACGGG GAAAAGGGGCCGAAAGGGGGGTTAACCAAGGAAAAAACAGAA GAGGGAGAAGAGGGGAAAAAGAGAAAAAAGGGAAAAACAAAA
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G G GACGGGGACCAGAAAAAAGAGAGACAGGAGGAAAGAAGAG GAGGGAGAGGGCAGGGGGAGAAGAACGGGGAAAAAGAAGGGA
 AAAGAGAAAAAGAGGCAGGCCCAGAGGAAAAGGGGGGGGGGC $C G G A A A A A A G G G G G G A A A A G G G G C C G G G G A A G G G A A A G G G G G$
 A G G G G A A A A C C A A A A A A A A A A G G G G G G C CAAC $C$ C G G G G G G G G G G G G G G G A A A A A A G GAAGGCCAAGGAAGGAAGGAAGGCAAAA A G G G G A A G GCCCCAAAAAAAGGGAACCAACCGGAGGAGGGGG AGAGGAAGGGAAAAAGACCAAAAGGAAGAAGGGGGAGAGGGA A A A G G A A G G G GCC C G A A G G G G G G G GCC C G A A T T A A A A A A C C G GAAG $A \operatorname{AAA} \operatorname{A} G A A A A G G G G A A G G A A G G A A G G G G G G A G A G C C G G C$ CAAGGAAGGAAGGGAGGGAGAGGGGAGCAAAAAAAGGGAGAG GA $A$ A $C$ C $A G G A G G G A A A G G G G A G G G G C C G G G G A C G A A A A A A A G$ A G G G GAACCGGGGAGAAAAGGGGGGAAGAGAAG
$113107000-9 \mathrm{G}-\mathrm{G} G \mathrm{G} G \mathrm{G} C \mathrm{C} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGAAAAAAAAAGGGGA AAAGGAACCCCCCAAGGAAAAAAGGAAGGAAAACCAAAAGAA $A C C G G G G A A G G G G G G G G A A C C A A A A G G G G C C G G G G C C G G G B A$ $A G G C C A A G G A A G G G G A A G A A G G G A G A G A C G G A G A A A G G A G G A$ ACAAAGGAAGGAAAGCCAGAGCCGGAGGAGAAAAAGGGAGAA AACGACCGGCCAAGGAAAAGGAGAAGAAGGGGGCCGGCCAGA A G G G G G G G G G G A G G G G G G G G G G A A A G G G G C C A A T T G G A A G G A $A G G G G G G G G G A C C G G G A A A A A G G A A C C G G G G G G A A G A A A G B A$ A A A A A A A A A A G A G G A A GAGGAGGGAGGCAAGACA GAGGGGGA GCAGAAAAACCAAAAAAGAAAAAAAAGAGCCAAGCAGAAAAG GAAGGAACCGGAAACCCAGGGAAGGGGAAGGAAAAGGTXAAG GAAGGGGAAGGAACCAAGGAAAAAACATTCCAGGGCCGGAGC AAAGGAAGGGAAGGAAAAAGAAAGAAAAGAACAGAACGAAAA A G GAA A G A A A G G A A G G G C A A A G G G GCCGGAGGGAAAACAGAA AAAAACCAACCGGCCGGCCGGAAAACAGGGAAAAAGGGGGGG G G G A A A A G A G A A A C C A A A A G GAGGAAGCCGGGAGGAAAAAAG GAGGGGACAAGAAGAGGAGAGGACCCAGGAAAAGAAGGACAA A GAA A G G G GAACCGCGGAGGGGGGGAAGGAAGGCCGGAAAAAA A A A A A G GCA $\mathcal{A} G A A G G G G C C A A G G G A A G G G C C G G A T G G G A A A G$ G G GAAAACCAAAAAACAGAGGAAGGAATAAGCCAAAAGAAGG $G G C G A A A A G G A G A C C C C A A G G A A G G A A C C G G G G A A G G G G C C G$ GAAAAGGCCGGAAAAGAGGAAAAAGGAACGGGGAAAAAAAAA A GGAAGGAAAAGGGGCGAAAAGGGGAAGGAAGAAGGAAAAAC CAAGGAAAAAAGGGGCCAAAAGGAAACGAGATAACAGAAGGA A G G A A GA $\operatorname{A} A A \operatorname{A} A \mathrm{~A} G A A G G G G G G A C A G G G A A G G A A G G A A A A G A A$ C GAGGTAAGTTCAAAGGGGGGAAAACCAAAAAAAACCAAGGG GAAAGAAAGGAGACCGGGAAAAGAGACAGAAGAACBAAGGAG GAAGAAGAGGAACGAAAGAAAACGGACGGAGGAGGAAGGGGA A A G G G G G G G G A A G A G G A A CAGCAACAAAGAGGA GAAGGAGGA AAACCCCAAAAAACAAGGAAAAAAGGACCAAGACCGGGAAGA $G C C G A T A G G T A G G A C A A G G A G A A G G G A A A A G A A A G G G A G G G A$ A A G G G GAAAGGCCAAGAGAGGGAAGAGAAAAAAGGCCAAGGG GAAAAGGAAAAGGGGGGAAAACCGGAGGGCCGGAGGAAAAAA A A G GAGAAGAGTAAGGGAAGGAGAGCATTGGCAAAAGAAAAA AAAGGAAAAAAAAAAAAGGGGAAGGAAAAGGTAAGGAAGGGG A GAAAAAGGCCAAAGGGGGAAGAGACCGGGGAAGACCGGGGG GAAGGAACCAGCCAAAGCGCCGGGGAAGGAAGGCCGAACAAA A GAACCCGGAAGAAAAGAGGAAGGACAAGAAAGAGAGGACAA GAGAGGGTTAAGGGGGGAAAAGGGAGGGAGAAGGAAAACAAA GAATAGAGGGAAAGGAGAGAAAGAGGGAGCAAGAGEAGGGGG GAGGGAGGAGGAAAAAAGGAAAAAAAGAAACGGGCGGAAAAA GAGAAGGGGAAGGGGGAACAGAGGGGAAGAAGAAAGAGACCC
 AAGACAAAGAAGGAACCCAGGAGAGAGCCGAGGGGAGGGGAA

A GACCGGAGAGAGAAAAAGAAAACCAAGGGGCCCCGAGAAAG
 A A G A A G G A G G G A G GAGAGGAGAAAAACAGGGGAAAGGACAGG G G GAAA A G G G G GAAAGGAGAAAAGAGGCCGAACGAAACACAA AAA A A A A A A G G GCAAAAAAAGAGGAGGGACAAAACAAAAAGA A G G A A A A G G A G A G A G A C A A G GAGGGAAGAAGAAAAAC GAAA G GAGGAGAAAAACCAGAAAGAACCGGAGGGAAAAACGGGGGGA GAGCAGGACAAGGGAAAAGAAGAAAAAGGCCAAGAGAACGGG A A GAGAAGACAGAACGGCCGGAGGGCCACAAGAGGACAAAAG G GAGGAAGAGACCAGCCGAGGAAACCCCCGGGGAACCAACAG GAA A GAA $A \operatorname{A} \operatorname{A} A A A A G G G G G A A A G G A A G G A A G G A A A A G G G A C C A$
 G G A A A A A A A A A A A A GAA A GAGACAGGAGGAACAGAGGGAGGA GAAAGGGCCCACCACCGAAGGGGAAAAGGAAAGGAGAAAGAA
 AAGCAACGGAAAACAGAGGGGGGGAAGGGAGGGACGGGGCCG
 GCCAAA $C A \operatorname{A} G \mathrm{G} G \mathrm{~A} A A A A A A A C C G G G G A A C C A A G G G G G G G G G G G$ $G G A A A G A G G A A A G G A G G G G T T G G A T G A A G A A A A A A A A C A C C A$ G GAGGGGAAAAAAAAAAAAGGGGGGAACCGAAGBAAAAAGGB G GAGGAAGGAAGGAAAGGGCCAAGGAGAGAGCCGGGGAGCAG GAAAAGGGATTAAAAAGCAAAAGGGGGGGAGAGGGGGGGGAG GAAGGGGGGCCGGCCGAGGAAAAAAGGCCGGCGAAAAGAAAC
 A G G A A G A G G G G G G G A A G C A G G G G G A G G C A C C A A G G G A A G A G A $G C C A A A A G G A A A G A G C A G A G A C C A A A A A A G G A A G G A A A G G G A$ A G GA GAA A A GAGAAAAAAAAAAACCAAGGAGGGGGAAAAGAA A G G G A G G G A A A A A A A G GA G GAA A A $\mathcal{A} G G C A G G G A G G C C C C G G G$ GCGGAGAAGAAGAGGGAGGAAGAGGCCGAAAAAGAGGAAAAG GAACAAGGAAGAAGGAGAGCCGGAGGGAAGGCCGACCAAGGB G G A T T G G G G A A G G G G C C G A A A A A G A G G G G G A A G G G A G G G G G G G GGAAAAAAGAAGAAGGAAGGAAGGAAAAAAAAGGGAGGGGT
 A G G G G G G A A G G G G C C G G G G G A G G A A A A G G A A C C A A C C A A G G G G G G A A $\mathcal{A} G \operatorname{G} G \mathrm{G} G \mathrm{G} G A A A A A A G G G A A G G G G G G G G A A A A A A G G G G C$
 GAGAGAGCGGAAAAAGACCAACCAGGGAAAAAAAGAGAGAAA A A A GAGAGGAGAAGAAGGAGAAGGGAAAAGGAAAGAAGAGAA A GAGGAGAGGAGGGGAAAAGAAAAAAGAAGGGGGGGAAAGAA A A GA G A A G GAGGAGGAACCCAAGAAGGAAGAGGA GAAAAGAA TAAAGCCGAGGATGAGGCCGGAAGAGGAAGGGAGGAAGGGGG G G G G G G G G G G G G G A A G G A A G G A A A A A A A A G GAAAA A G A A A A G GATGAAAACGGGGCATTGGAAAGCCAGGGAAGGGGGGGACAG A G G G G G GAAAAAAGGAAACGGAAGAAGGAGAGAGAAGAAGAA CAACCGGGGGAGAAGGAAAGGAAAGGAGACCAATTGGGAAGA
 CAACCAGACAAGGGAGGGACAGAAAGGACAGCCGGCAGAAAG GAAGGGGAAAAGGAAAATTCCAAGGAAAAAAAAGGAAAAAAA A G G GAAAAAGAAGGGAGACACAAGGAGACGGAATACAAGAGA GAAACGGGGAGGGGGAGGGGGAACCAGGGGGGGGGACAAGAA A G G G G A A G G G A A A C A G GCCAAAGAAGGAGAGAGGACA GAAAC CAACCAAGGGGGGCCCCGGAAGGCACACAGAAAGGAAGAAGAG A A A C C A A G G G G A G G A G G A TAC G A GAGGACCCCAAGCAGCCCG GAGGGACACAAACGGAAGGAAGGAAGGAAAAGGAAGGGGGGG GAAGAGGAAGGAACCAGGAAGCAAGAAGGAAGAGGGGGAAAA A A A A A G G G G A A A A A A $\mathcal{A} G G G G G A A A A G G G G G G G G G G G A A A A A C$ C GGCCAAAAAAGGGGAAAACCGGCCAAAAAAGGCCAAAAAAA A A A A A G G A A A A A A A A G G G G G G A A G GAA A GAAAAAAAACAC CA $A \subset \subset A A G G G G A A G G C C G G G G G G A A C C G G G G G G G G G G G G G A A A A$

A G GAAAAGGCCAAAAAAGGAAGGAAAAAAAAGGAAGGAAAAC C G GAA $A \operatorname{GAA} G G G G A A A A G G A A A A C C G G C C A A C C A A G G A A G G G$ GAAAAGGAAGGAAGGAAGGGGGGAAGGCCGGGGAAGAAAGAA A A A G G G G G G G G A A A A G G A A A A A A G G C C G GAA $A$ G A A G G G G G G A AAAGGAAGGGGCCGGCCGGCCAAAAAAGGCCAAAAAAGGGGC C C C G G A A G G A A G G A A G G G G A A A C G G G G G G C A A A G G G G G G G G G GAGGAAGGGAGGGAGCAACAGGGGAAAGGAAAAAAGGACAAG
 G GACCAAAAGGAACCAAGGAGAAAACCCCCCAAAAGACCGGG GAAAAAAGGGGAAAAAAGGAGAGCGAGAGCCAGGGGGGAAAA C C CA GAA A A GACCAAGAGGGAGAAAAAGGAACCGAAAGAAAA
 G GAA A A G G G GAGGAAGGGGCACCGGGGAAGGAAAGAGCABAA G G G A A C C G G G G C A G G G G A G A G G G A A G G A A A G G G A G A G G G G A G GAGCCCAGGGGGGGGAAAAGGGAACGGGGAACCCCAG
GAATAGGAGAGAGGGAAAAAAAAAAAAAAGCGGAGGAAAAG GACCAGGGGCGCCAGGGGGAAAGGGGGAAGGAAAACCGGGGC C G G C C G G A G G G G G G G G G A A A GAGCCAGAAGGAAAGAAAAGG G GAGGGAAAAGGCCGGAAAAAAAAGGCCAAAAGGCCAAAAGGA G G G G G G G G G G G G G G G A A G G G G A A G G A A G G A A A A G G G G G G C C A AAGAGGGAAGAGGAAAAAAAAGGAGGGAAGAAAAAGGACBAA GACGGAAGGGAGGGGGGAGAGGAAAAGAGAGCCGGGGAAAAG G G GCCAAAGGGGACCTTCAGAATGGGAATAAGAGGGAAACAG G GAGGGGAGAAAGGGAAGGAGAAAGGAAAGGGGGGCCABAAG GAAAAGGGGGGCCGCCCAGGGAGGAGAGGAAGGGGGAACBAA GAAAGGGAAACGAGGAAGGCCGGGGAAAAGGAAAAGGGCAAA G GAGAAAGGGAGGGGGGAAAAGGAAAAGAAGAAAAAAGGCCA G G GCCAAAGGGAGAAAAAAGGAGGGAAAAGAGGAGGGGAGAA GAAAAGAGGGGAAGGCCAACCGGGGAAAGAGCCAGAGAAGAA AA $A \operatorname{GA} A G A A G G A G G G C C A A G G G G G G G G A A G G A A G G A A A A A G G$ A A A G GCCATCCCCAAAAGGGAAGGGGAACAAGGGGATAAGEG G GAAGAGAAGAAAAGGGGGAAAGGAGGCCGGGGAGAACCGGA A A A G A A A G G A A A A A A G G G GCC G G G GCC GAGGGAAAAA GACCA AGGCCCCAAGGAAAAAAAAAAGGAAGGGGAAGGGGGGGAAGA A G G G G G G A A G GCC G G G G G G G A A G A GCGAC G G G A G A A A G G C A A A A A G G G A A A G G G G G G C C A A A A G G A A A A A A $\mathcal{A} G A A A A A G G G G G G G$ GAAGGAAGGAAAAAAGGAAGGCCAAAAGGAAAAAAAAAAGGG GAAAAGGGGAAAACAAAGAGGGGAAGGAAAAGGGGAAAACAG G G G G A C C A G G G T T A A G G A A A G A A G A G G G G G GAA $A \operatorname{GA} A G G A A A G$ GAGAGAAAGCGACAACCAAAGAAACAAAAGGAACCCCAAACA $A G A A G G G G G A A G G G G G G G G A A A G C A G A A A A A G G G G A A A G G A G$ G GAAA $A \operatorname{AACCGGAGGAGGGGAAAGAGAGGGGAGGCCAGGAGAG}$ A A G GAAAGGGAGGGAAAGGGGAAGGGGAGGAGGGGGAAAAAA CAAAACCGAAAGGAAAAAAACAAGGGAGGAGAGGGGGAGGGG GACAAGGGAGCAAGAGGGAAGAGAAGAAAAGTAGGGAAAGAA A G G A A G GCCAAGGCCCCGGGGGGGGAAAAGGAAAAGGGGCCA C G A A A A A A G G G C A G A G G A G G G A A G G G G A A G G G A A A A A A A G G C CAA A G G G G A G G A A G G A A G G G G G G G G G G A A A GAAAAAAAA A $A$ A $A$ GAAGGAGAAACATGGCCCCGGGGCCAACCGGCCAGGAAAAAA GAAGGAAAAGGAGGAGAGGGGAGAGAAAAGGGGCCGGCAAGB $G C C G A C C G G G G G G G G G G G A A G G A G G G G A C G G G A A A G A C A A G G$ GAACGGGAGAGGGGGAGTTGAAGAAAGAGGAAGGAAACAAAA A A A A A A G A A A G A A CAAAGAGGACGGGCAGAAAGGACAA GAAG GCAGGGGAAAAAAAGGAACAGGAGGCCACGAGAGGCCAGAAG A G G G G A A CAAA A GAAGACAGGGAAGAAGATAAAGAAAAGGCA AACGGAGCCAACCAAAAAGCCAAGGGGCCAAGGAGGAAAGGC AAAGGGAAGAAGGCCAAAAAAGGAGCACCCCGGCCCCAAGBC A A G G A A A A A G G T T G A G G G G CC CGGCAGAGGAAAA A A A A A G A G G ACAGAAAGAAGGAAGAGATAGAAGAAGCCAAGGAGAAGAGGA

A GAGGGAGGAAGAAAAGGAGGAAAACCAGGGAAAAAGGAAAA ACCAAAAGAAGGGAGAAAAACCCAGAAAAGGAAGAAAGAGGA G GAAGAAGAAAAAAAAGGGAAAAAAGGAAAAAAAA GAAAAAA AAAGGAAGAAAGAGGGGGGGGGAAGAAGGACGGGGGGGAAAG GACAGAAGGAAACCCGGAGAAGGAAAAAACAAGAGACGAGBA G G G A G A T G G A C G G A G A A A G GAGGGAGAAAGGAGAAAAAA A A A A AAAGGCCCCGGAAGGGGCCGGAAGGCCGGAAGAGGGGCAGAG GCAGGACAAAGAAGGAACAAAGGGAAAAAAAGGCAGGGAAAA G G A A C G G G G G G G G A C C A G G G G G A A A G G C C A A G G C C A A G A G G G AGGGAACTAGGGGCCGGAGGGGGGAAGAGGGAAGGAAAAAAG GCCGGAAAGGGGGAAAAGGAAGGAAAAAAGGGGAAGAGAAAA G G G G G GAGAAAGAGGAGGGAGAACAAAGGAAAAAAAGAAGAA G G G G G G G A A G G G G A A A G C C A G G G C A A G G A G A G G A G G G C C G G A A G GAC C G G A A G GA GAG GAAAAAGAATTAAAGACAA GAGAAAA AAGCCAAAGGACCAAAGCAAAAGGGGGCCGAGGCCTTCAAGG AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} C A G A C G C \subset G G G G C A G A G G A A G G G A G A A A G A G G G G T$
 G G GCCTTGGGGAAAACCGGGGAAGGGGGGAAAAGGGGGAAAA AAAAAGGGGGGAAAAAAAAGGAACCAAAAGGGGGGGAAAGGC CAACCAAGGGGGGAAGGGGAAGGGGGGAAGGAAAAGGGGGGA A AACCAAAAAAGGCCGGAAGGAAAAAAGGAACCGGAAAAGGA ACCGGAAGGAACCGGGGAAGGGGAAAAAAAAGGAACAAAGBA A A A C C A A T T G G G G G GAAGGAAAAAAGGCCAAAAAAAAAAAAA A G G G G G G A A A A C C C C T TCCGGGGAAGGTTAACCCCAAAAAAC C A A A A G G G G G G G G A A A A A A A A C C A A G GAA $A \operatorname{AGGGAAAAAAGGA}$ A G GAA $A \operatorname{GGG} \mathrm{G} C A A C \subset C \subset G G G G A A A A A A A A G G G G G G A A A A G G G$ G G G G G G GAA $A \operatorname{GA} A G G A A G G A A A A A A A A G G G G A A A A A A G A A A A$ A A A A A G G G GAGGGGGAAAGGAAGGGGGGGAAGGGAAAGAA GA GAAAACAAAAAGGGGGGGGGGAAAAAAGGAAGGGGGGGGGBA $T G G G A A T G G G G G G A A G G A A A A A A G G A A G G A A A A A A G G G G C A A$ AAAAGCACCAACAGAATGAAAAATTTTCCAAAAAAGGA GAAG GAGGAAAAGGGAACCGGAACCGGGGCCGGAACCGGAAAAGGG G G GAAAAAAGGGGGAACGAAAGACCAAAAAAACGAAAGAAGA
 GAGGGGGGAGAGGAACCAAGGGGAGGGGGAACAGAGGGAAAG $G G A A A G G G G G A A G A A A G G A G G A A C C G A A G A G C A A A G G T T C C A$ GCCGACCGAAAGGGGAAAGGAAAGGAGGAAAAAAAACGGGGA GAGAAGGGGGGAGAAAAGGAAAAAAGGAAGGGGAACCAATTA $A C C G G C C G A G G A A A A A A A G A A G G A A T A G G A A A A G G A A G G G G A$ A A A C C A A G GAA $A \operatorname{GA} A G G G C C A A G A A G A C C G G G G G G C C C C G G G$
 GAAAAGGAAGAGGTAAAAGAAGGGGAAAACCAAAGAGACGGT TAGAAGGCCGGGGGACCGGAACCGGGGCCCCACCCTAGGTAT T G A A A A A G GAAAAAAAGAAGGGGGGCCCCAAAAAAAGGGGGG1
 A G G A A A A A A A A G GCCGGC CAA $\mathcal{A} G G G G G G A A A G G A A G G G A G G B A$ A G G G GCCAAGGATGGGAGAAAGGCCGGGGGGAGCAGGGAGGA AGACCCAAGAGGGGGCCGGGGAAAACCAAACGGTTAGAAGAA A G G GAAAGAGGAACCAAGAGGGGGGAAAAAAGGAGAAAGGGA A A G G A A G G A C C G G G G G A G G G A GACCCCCCGACATTGGAAA GA A A A G G A A A A G G A A A GAGGGCCGGGGGGGGAAAAAAAGA GAAA GAGCAAAGGGAGGAGGGAAAGCCCAGGGAGAGGAGGAAAACA AGAAGGGCCAAGAGGAAACAACAACAAGGACAGCCAAAAAAG G GGCCAAGGGGGAAGACGAAGCCAGAGGGAGGGAGAAGAAAA GCGAAGGGGGAGGAGCCAGAAAACCAGTAGAACGGCCGAAAA A G G A A A A A A A G G G A G A GAGACAGGGCAGAAAAAGGAAAAA GA A A A A A A A G GACAGGGAAGGAAGGGGGGAAGGACAAAACCCCG
 AAGGGAGAGGGAAAGGGAAGGAAAAGGACAAAAAGGGCCGGA

GAAGGAAAATTGAAAAACCGGAAAAAAAAAAAGAAAAAAGAA A A A G G A A A ACAAACAAAAGGAAGGAAAGGGACCAC GAAG GAA AGGCCAAAGAACACCGGGAAGCCGGAAGAGAGGCCCAAAGGA AAAAAAAAAGGCCGGCCAAAAGGAAAAGGGGAGAAGAAGAGG AA GAGGAAAAATAAGGGAAAAAACCAAGGCCAAGGCAGBCCAA GAGCCGGAGGGAGAGAAGGAAAAGGAAAGGAGCGAACAAACB A G A A A GAGAAGGGAGCCGGAAAACAAGGAAGGGGAATGAAAA $A C C C C G G C C A G G A G G A A C C A A G G G G G A A A A G G A A A A A A A G A G$ A A G A G A A G G G A A A G G A A A A G G G G G G A A A G G G A A G G C C G G A A A AAGGGGGGGAACCGGGAAAGGACGGTAGGGAGGCCGGAAGAA A A C G G G A G G G G G G A G G G G G G A G A G G C C A A G G G A G G A A A A A A $G$ GAAAAGGGAAAAAAAGAAAGAGGAGAGGAAACCATAAAACCG GAAGGAAAAAAGAGGGGCCCCAGATAGAAAACAAAGGAGGCA A A A G G G G G G G GCGGGAAGAAGAGGGGGGAGAAGGACAAAAAA TGAGAAGGAGGGGAAGGAAAAGGAGAAGGGAATA GAA
GAAAGGAAAACCGGGGGGAAGGAGGGGGGAACAGAGAACCA AGGCCGAAGACAACCAAAGGGAAGGGGAACCCAGGGGGGGAG GAGAAAGAAGAAAGGAAGGGAGGAAAGAAAATAGGAAAAAAG GGGACCAAGAGAAAAGGCCGAAGCCAAAAAGACGGAAAATTG G G G G G A A G GAAAAAAACGAAAACAAGGAGGACGAGGGCAAAT TAACAACAGAAAAAAGGGGAACAGAGAAAAGAGAGGGGGAAA G G GAAAAGGAAAAGGCAGGGAAAAAGGGGAGGAGAGAAAAGG AAACCAAGGGGAAAACCCCGGGGACAGGAGGGGAAGGGAAGA
 GAGGGCGAAGGAAAAAAAAGGACAAGGGGGGGGAAAAAAGGG G G GAGCCGGAAGGAGGGAGGGCCAAGGAGGGAAAAGGGGGGA AAACCAAAAAAGGAAGAAAGGGAAAAAACGGAAAAGGGAAAG GAAGGAGACGGGGCCAAGGAAAAGGAGGAAGGAAAAGGAA GA G G G G A G G A A A A G G G GCCGGGGCCAAGGAAGGGGGGAAAACAC CAAGGGGAAGGGGCCAAGGTTAAAAGGAATTGGTTCCGGCCG G G G G G A A G G C C A G A A C G A G A A G G A G G A G G G GA G A A A A A G A G C C G G G A A G A G T A A A GAA $A \operatorname{GGGA} G A G G A G A C A A G A A A A T G G G G A$ A GAGGAAAGAAGGAGAAAAAGAAAGAGAGGGGGCCTTAAAAA G G G A A A G A A G G GAGAACAGGGCGCCGGAACCAGAAGAAAAAG A A A A A A GACGAGAACAAGAAAAAGGAATTCCCAGGAACAAAC C G G G G A A G G C C G G G A A G G G C C G A G G G A A G A GAA A G G A G G A A A $A T T G G A A G G A A G G G G G G G G G G G G G G G G A A G G A A A A G G G A A A G$ AAAACCCGACCGGAAGAAAAAAAAAAAGAAACAGGAAAAGAA $A C \subset A A G G A A G A A A G G A A G C G G G G G A A A A G A A A A G G G G A G A G A$
 GAAAGAGACAGACGACCGAGGGAGGACGGGGGGGGCCCAAAG GCCAA C C G G G G A A A G G G A G A G G A C A A G A G G G G G A C C G G A G G G A $A C A G A A G G G G G A A G G A A A A G G A A G G G G G G G A G G G G A G G G A G A$ G GAA A GAGGCCAACCAAAAGGGGGGGAACBAAGAGAAGGGGC C G GAGCCGGGGAACCGGAAGAAAAAAAGGCAGAACAACAAGG GAAGAAAAGAGGAGAAGGGAAGGAAGGGGGGAAAGGACCGGG A A A A G G G A G G A G A A GAGAAAAA A A A GAGGAGCCGGGGA GAAA A A ACCAAGGAAGGGGAGGAGAGGGGAGGAAGGAGGAAGAAAC A GAA A A GAAAAAAAAAAACCCAAGGGGGAGGAAAGAAAAAAC CAAGGAAGGGGAAAAGGAAGGGGGGGAAGGGAACCBAAGGAG GAAGAAAGGGAGGGGACAAGAGGGGAGCCGGAGAAGAGAGAA G G G GACCAAGGAGGAGAGAGGAGCCGAAAGGACAA GGGGGGA A G A G G G A G GCCGGGGC G A A A A GAGGGGGGGACAGGAAGAAAA G G G G G G G G G G G G GAGGGGGGAAGAGAAAAAGAAAAGGGGGCAA AAAAGAAGGAAGGCGGAACACAGGAGAGGAAGGCCAAAAACA

 A A A A A G GCCCCGGAAAAGGAAGGGGGGAAGGAACCAAAAAAA $A G G G G A G A G G A G A G G G G G G A G A A G G A A A G C A G A G G G G A G C A G$

G G G A A A A A A G G A A A A A G G G A GAAAA $A \operatorname{AGAAAAAGGGGGGGGA}$ GAGGGAGGGGGAGCCAAAGAAGGGGAAGGCCGGTTGGAACAA AAAGGGGAGGGAAGGGAGGAAGGAAGAGGGAGACAAAGAAAA A G GAA $A \operatorname{GAAAAAAAAAAGGAAGGGGAAGGGCGGGGGCAAGCCC}$ CAAAAAAAGAGAAAGCAGGGGAGAAAAAAAAGGAGAGGACCA G G A A A A G A G G A A A A A A C A A A A G G A A A A A A CAAAAAAA GACAA G G A A G A A G G G G G G G G A G G G G G G G G G G G G G A A A G C G G G G G C $C A$ AAACCGAGGGAGGCAAAGGGAAAAGAACCAAAGCCAAAAAAG A A C A A A G TACCAAAAGGAAGAAGGGGGAAAAGGAAAAAAGGG GAAAAACAGACGAGGACGGCCGGAAAAAAGGAAAAAAAAGGA A G GAGGAACAAAGAGAAGAGACCAAGGAAAGGGAACAAAGGC
 G G G G GCCAGGAAAAAAGAGGGAAAAAAAAGGAAAGGGA GAAAA
 C G G G GA G C C G G A A A GAAACAAGAGGAACCGAGAAA GGGGGGA A G G G G GACAAACCCCGGAAAGGGGGAAAAAACCTTAAAGCCA
 GAAAAGGAGGAAGGGCCAGAGCAGGGGGGGGGGGGAAGGGGG GAATTGGAAAAGAAACCAAAAGGAACCAAAAAACCAGAGAAA A A A A A A A A A A G A A GAGAAAGGGGAAAAAAAAGGAAGAAAAA G AA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A A A A A A A A A A G G G C A G G G G A A G G G G G A G$ A A GAGATAGAAAAGAAGGAAAAGGGAGGGTTAACCAACCGCC C G A A A G G A A G G G G A GAGAAAAAAGGGGAAAGAAGGCCCAGAA ACCAAAAGGAGGAGGGAAAAGGGAAAGAGAGAGAGGGAAAAG G G A A A GATACCGGGAACGGAAAACCAAAAGGACCCGCAACCG GAGAAAGGAAAGAAGAGACGAACGAAGCAAGGAGAAAGGGGA AAAACAGAAGGAGGAGCGGAGAAAAAAAAGAAAGGAAAAAGG
 $A A G C G G A G G G G A G A C A G G A A A G G A G C G G A A A G G A A C C A A G G G$ GAGGGAAAAGGGGACAAAAAAAAGAAAAAAAGGAAAAGAAAA A A A A A A A A A G G A A G G G GAGGAGGAGAGAAAAGAGGCAAAGAA A A GAA A G G GAA A A G G GAAGGGGGAAGGGGGAAAGAAGAGAAA GAA A G A A G G GCGGGGGGGAGGAAAAGGAAGAGAAGGACAAAG
 G GACCAAGAAGCAGCAGGGACGGCCGAAGAAGGGGGAAAGAA A A G G GACAACACCAGAAAGGGAAGGAAAAGACAACAAGGGGG GAAAAATAGGAGGGAAGAGGAAGAGGGGAAGGGGGACAAGAA
 A A G C A A $\mathcal{A} G G G G A A A A G G G G A A G G G G G G G G A A G G A C G G A A A B A$
 GAAAAGGAAAGGAAGCAAAAAGGAAAAAGAAGGAAGAAACCT TAAATAGCAAGAAAACAAGGAGGAAAAGGAGAGGGGGA GAAA AAAGGAAAAAAGGGGAAGAAAAGAAAGGGCCGGAACCGGGGT TAAAAGGAAAACCAAAACCAGGGAGGAGAAAAGCAAGGAGAC A A G A A A GAA $A \operatorname{GGGAA} G G C C A C A A C C G A A A A G T A A G A A G G A G G$ A GACAAGAACGGAAGCACAGGGGGATTGACCGAACCGAACCG GAAGGAGGGAGCCGGAAAAGGAAGGCCAGAGGGAACAACABC
 A A G GAA A A G G GAGGAAAAGAAAAGGAAAAGGGGCCCCAACAA AAAGGAGAAGGAAGGAAAGGAGAAAAATAGGAACCGGAAAAC CCCAAACGGGGAAAAAAAACAAGAAAACCGGGGAGAAGAAGC CAGCCGGAAAACCGGGGGGAAAAGGAAAAAAGGGGAAAAGGA A G A G G G G G A A G A A A A A G G G G A C C A G G G G A A A A A G G A A G G C C G GAAGGAAGGAAGGCCAGAAGAAAGGTTGAAAAGAGCCGGGGA GCAGGGGGAAAAAGAAGCCAGAAAGGAGGAAGGGGGAAAAAC C GCCACCGGGAAGAGCGAGAAGGAAAAAGCCAAAAGAGAAAG GAGGGAAGGGAAAGGGAAGCAGGGAAGACAGAGAGCABAAGG G GACCGCAAAGGGAAGGGGAAAAAGGAGAGGAGGGGAAAAAAG GAAAGGAGAAAAAGAAAGGAGGGGGAAGGAAACCAGGCAGGG
$G C C G A A A G G C C G G G A A G A A G A A A C C A A G G A G A A A A G A G A G G A$ GTTAGGAAACAGAAACCGAAAACGAAAGGAGAAAACCGGGGG $A C C G A G G A G A A G G A A G A A A C C C C G G A A G G G G G G A A G G G A A A G$ ACAAAAACCCCAAACGGAAAACCAACGGGGGAAGGGGGGAGA $A C C A C A A G A A A G G C C G G T T G G G G G G G G G G A A A A G G A A G A A G G$
 A A A A A C C A A G G A A A A CAAAGGGGCCAGGGCCAAGGACGAGGA $A C C A A A G A G A A A G C A G A G A T A G A A A A G A A A A G G G A G G A G C C G$ A G A A A C C A A G G G G A A G G G G A C G G G G G G A G A A A A A TA G G A G A G GAAAAGGAAGGGGGGAAGAGGAAGCAAAAGGGGAAGGCAAAG G G G GAA A G GAGAGGGAAAAAGAGACTTAAGGAAAAAGAAGAG GAAAAGAAAAAGGAACCCCGAGAACCAAGAGAAGGGGGAAGG GAAAAAAAGGAAAAAGAAGGGGGAACCAGCAAGCGGAGGGGG G G G A A A C G G GAGGGGCAGAGGCCGAGAACGGCCCCAAGAAA G GAAAGGGTTAAGGATACGGCCAAGGGGAGAAGAAGGG
AAGAAGAGAAAAAACCGGAGGGGGGAGGAGAAAGGGAGAAA G GAA $A \operatorname{GAA} A A G A A C C G G G A G A A G A A G A A G G A A G G G A A A G A A G$ G G A A A G G A A A G G G GACAAAGGGGAAAAGGAACCGGGGAAAGA G G GCA GAAAAAGGCAGGGGGGAGCCAAGGAAAAAGGACAAAA C A A A G A A T T A A G A G A A G G G G G A A G A A A A G C C G G G G G G C A G G G A A A A A A A G G G G A G G G A G G G A G G G A C G GAGGGGGAA G G G G C C G GAATTGGGAAGGGAAAAAAAGAGAAGGAGAGAGACAAGGCCA A G G G G C C G G G G A A A A $\mathcal{A} G G G G G A A G G G A G G A C C C A A G G G A A A A$
 A G G A A G G A A G G GAA A A G GAGGGGCAGGAAAAACACAGAAG G G
 G G GAA A GAAAA $A \operatorname{A} A A A G G A A A G G A G A A G A A G G A A A A G G C A A G G$ GAA $A$ A A A C C G G A A A A C A G G A A G G A A A A G G G G A GA G C C G G G G G GCCGGAAGGAAAAAAGGAGAGAAGAAGGGGAAAAAGAAAGAG $G C C A A A C G G A G A G T T G G G A G G A G C C A A A A G G G G A G G G G G G G A$ A G G G G G G A A G G A G A GAGCAAGCCGGAAAAACAAAAAAA G GAAG AAAAAGGGAGGAAGGCCGGAAGAGGGGGGGGAGAAAGAAAAG G G GCCCCAGGACCGGAAAGAAGAGGAACAGGGGACGGAAA GA
 GACAGAAAGAACCAGAATTAAAAGGGGGGCCGGAAGAAAGGG G G G G G A A A A C C C C A A G G A A G G A A G G G G A G A G G A A A C C A A G G G GAACCGGGAGAACGGAAGGGGCCGGGGAAGAGGGGGAGACCA $C G G G G G G G G C C A A C C G G C C A A G G A G A A C C A G A G G G G G G G A G G$ $G C C C A C G A G A A A A G A G G G A A G A G A G G A A G A C A A A A G B A A A C G$ G GAA A GAA A ACCCAGGGAGAAAGGAGGAGGAGGCAAGA GA GA G G G G G A A A GCCGGAGAGAGAAACGAACGGACAAGGAGGACCB GAGGGGGGAACGGGGAACCGGAGAGAGAAACAGGGCCBAAGG $A G G G G A A A A A G G G C \subset A A A A G G A A C C G G G G G G G G A A G A G G G G G$ GAAGGGGGAAAGAAGAAAAAAAAGAAGAGAAAGACGGAGGGG G G G G A A A A CAGAAGAAAGGAAAAAAACAGAAGAAA GAAGGGA GACAAGAAGGGAACCAAAAGGAGGGGAGAAAGGAGAGGGGGA A G G A G A G A A T T G G A GCCAG GAGGAACCAAGAGGAGCAGACA G G G GAAA A $A \operatorname{A} G \mathrm{G}$ GAAGAAACAGAAGAGGGAAGGGGAAAAGGGGA G G GAA $A \subset G A G G G G A A G G A C G G C A G G A G A A A A G G G G C C C C G B A$ G G G A G GACCGGCAGGAAAGGGAAGGAAAAGAGGAAAAGGGGT A G G A A GA $\operatorname{A} G \subset A A A A A G A G G G G G A A G A A G G G A A A G A G A A A G E T$ $T G G C A A A A G A G G G G G G A A C G G G G G G A A A G G G A G G A A A A C G A G$ CAGAGGGAAAAAAAGGGAGCCAAGGCCAAAAAAAGAGAACAA A GAACGGAGGGGGCAAGGGCAGGCAGAAAAGAGAAGGCCAAA TCCAGAGCAGGGGAAAAGAGGGAGGGGAAGGAAAACCGAAGA G G G G GCAACCAGACCAAGAAGAAGGCCGGCAAGGAAAGGTTC CAAAGAAAGAAAGGAAACCGGGGAAAACGCCCCAACCAAABC C A A A A G G A C A A G G A GAGGGGGAGAGAGACGCAAAAAAG G G G A $G C C A A A A A A G A G G A A A A A A A A A G G G C C A A G G A G A G A A G G A G G$

AAAAAGAAAAAAAGGGGGAGAAAAGGAGACCGGAAAAGGGGG GAAAAAAAACCAAAACCAAAAACAACAAAAGAAGGAGGAAAA G G GAGGGCAACAAAAGGAAAAGGGAGACAAGGGAAAGAGCCC ACGACGGAAAAGGGAGAAAAAGGCCGGGGAAAAAAGAAACAA AAAGGAAGGGGGGGGAACCAAAAGGGGGGGGAAGGAACAGBA ACCAAAAAAAACCCCAACCGGAAAAAAAAGGAACCAAAAGBA A A A A A A A A A G G G G G GAACCCCAAAAAAGGAAGGA GAAAAAA G G G GAA $A \operatorname{GGGGGGGGAAAAAATTGGGGGGAAAAAAAAAAAAAAC}$ C G G G G A A G G A A G G A A T T A A A A A A G GAAAACCGGGGCCAAC CA $A C C G G A A G G A A A A G G G G A A A A A A C C G G G G A A A A A A C C G G C C G$ G G G A A A A A A G G A A A A G GAA $A \operatorname{GGGGGGGGGGCCAAAAAAAAGAA}$ A G G G G G G G G G G A A A A A A G G G GAAAACCGGGGCCGGAACAAAA $A C C A A G G A A C C G G G G A A A A G G G G G G A A G G A A C C G G G G A A G A G$ G G G G G A A G GAA $A \operatorname{AGC} C G G G G G G A A G G G G A A C C A A G G G G C C G G G$ GGGCCAACCAAGGGGCCAAGGGGAATTAAAAAACCAAAAAAG G G GAAGGGGCCAAGGCCCCCCAAAAAAGGAAGGGGAAAACAA $A C \subset A A A A A A G G A A A A G G A A G G G G A A A A G G G G G G A A A A C A A A A$ AAAGGCCAAAAAAAAAAGGCCAAGGAAGGCCGGAAAAAAAAA AGAGGCCGGAACCAGGGAAAACCGGGGGGGCGGAAAACAAAA A A A A A G A A G G G G G G G G A G G A A A A G G A A G G A A A A A G A T C C A A A A G G G GACAAACGGGAGGAAAGGAGGAGAAAAGGGGGAGAGAA CAGAAAAAAAAGAGAAGCAACAAACGGGGGATTAAGAAAGGC C G G GAA A A GCCAAGGGGCCAAAAGGGAGAACAAAAGGACABA
 GAAAAAAGAGGAAGGGGGGAAAAAAAAGGGAGGGGAGGAAAA A G G G GAAAGACAAAACCAAACAAACCCGGCCAAGGAAAAGAA G G GAA A A G G GACCACAAAAAAGGGGAAAAAAAGGAGGGAAAG G G G A A T T A A A A A A A A G GAAAACCGGGGAAAAAACCCC GAAAA A A A A A A A C C G G G G G G GAGAGGAACCGGGGAACAAGAAACAAG GAAAGGGGAAGGGGGCGCAGAAAGGAAAAGGGGAGAAGGGGA AAACCAGGGAAAAAAAAAGCAAGTAAACACCGGGAAAGGCCG ACAGGCCAACCGGAAGGGGAGGGAGGAACGAAACAGAAATTG G G GCAAAGGGGAAAAGAAAGAGAGGAAAAAGAAAAAAGACAA G G G G G A A T TA G A GAAAGAGACAACCCCGGAGCCGGAAGATAG GAGAAGAAGGGGCAGGGAAAAGAGAGGAGGAAAA GAGAAGAA A G G G G A A C CAA A G GAGAAAAAGGAAGGGAAAAAA GAAGGGGA AAAAAGGAAAAAAGGAACAAAAAAACCAAGGGGAAAACAAAG G GAAAAGAGAGAGAGACAGGGGAGGGAAAAAAGGGAACAAGA GAGGGAAAGAGGACAGAAGGGGGAGGGAAACAGAAAGATAAA G G G A A A A A GAGAGGGAAAGAGAACCCACCAGGAGBAGAAAC G G G G G GAAGGAACCGGGGAAAGGAGGGGCCAGAAAAGAAAAAG G G A G A A A $\mathcal{A} A G G A A G G A G G G G G G G A A A G G G A A A A A A A G A A C A G$ G G GAAGGGGAAGGAAAAGGAGGGGGAAAAAAAAAAGAAAACA A G G A A A A T TAA $A \operatorname{GA} A \operatorname{A} G A A G G A A A A A G A A A A G G A G A G A T G G A$ A T A G G A G G G G G C A A C G G GA G G C A A A A GAACCGGGGAAG G C C A A G G A A A A G GAAAAGGCCAAAAAACCGGCCAAAAAAAAAAAAC

 A A A A A A A GAGGGACCGGAGAAGGCAGGGGAAAAGGGGGAAAG G G GAGGCAGGAAACCGAGGCGAGGAGGAACCGGAGGAAGAAA G G G G GCAA $\mathcal{A} A A G G A A G A G A G G G G C C A C G A A A A C A A G A G A A A A$ GGACCGGAACCGGACCCGGGGGGAAAGGGCCACCAAGGAACA GAGAGAACCCAAAGGAAAAGGAAGGGGAGAAAAGGAGGAGGA G G A G A G A T T G G A GCGGAGAAGGACGGACAAGAGCAGAGAAAG GAAGAGGAAAAGGAGGGGAGGGGAGGGAAGGAAGAAGAGAAG GAAGGGAGAAACCGAGAGAGGGGGGACAGAAGGGGAAGAAGAG GA $A \operatorname{GGG} \operatorname{GA} A G G A G A G A C C A G A G G A G A G A G A G G G G G G G A A A G G C$ A A G G A G G A C A A G G G G C A C A GAGGAGAGAAAAGGGGGGGACAC A A GAAAGACAGCAAGAAGGAAGGAAGGGGAGAAAAAAAACAA

G G G GAGGAAAACCAGAGAAGAGGTTAGGGGGGGAAGGCAAGA G GAAAAGCCGGAAAACCCCGGAACCGGGGAAAAGGGAAAGGA AAAAAAAGGGGCCAAGGGGGGGGAGCCAAGAGGGGGAAAGAG GAAAACAGGGAAGGGCCAAGGGGGGGGAAAAAAGGCCAGAAC CATGGAGCAGAAAGAGGGCGGACAAAAGGCCAAAACCGGGGC

 $G C C A A G G A A A A G G A A G G G G C A A A A A A A G G G G A A A A G A A A G A A$ A A C G G G G A A G G A A A A C C G G G G G G G A A G C A G G A A A A A A A A G G A AAAAGGGGAGGGGAAAACAGAAAAGGACAAAAAAAGGCAAGG A GAGGAAGAAAAAGGGGGGGAAGCCAAAAAAAAAAAGAAAAG GCCGGAAAAACAAAGGAGGAAGAAAAGAGAATTGGGGCAGAC A GACCAAGACAGAAAAATACACAAACCGAAGAGGAAGAAAAG A GACCAAGGAAAGGGGGAGGGGGACCCGGCCGGAAAAAACAA AAACCAACCAAAAAAGGGGCCCCGAGGCAGGGACCGG
A A GAA A A GAGACCAGAAAAAGGGGGAGGGGGGAAAAG GAAA
 GCCCCAAAAGGGGGGGGAACAGGAGCCGGGGAGGGAAAACAG GAAAAAGAAAACCGGAAAAGGGGCCAAAGGGAAAGAACACAC
 $A C C G G C G C C G G G G A A A A A A G G G G C C G G G A G G G G A G C A G G A A G$ GAAAGGGAAGGCAAAGAAAGGCCAGGGCCGGGGAAGGAAAAA C GAACGAGGCCAAGAAAGAGGGGGGGGGGAGAGGAAAAAAAC CACGAAAGGCCGGCCGGGGCCGGGACAGAAAACAAAGGAAGB GAAAGACGGGGGGAAGGAAAAAAGGGAAACCAAAAAGGAGAA A TAA A GAAGGAGATTCCTTAAGAAGAAGGGGGGAGCAGAAAA GAAACAGGGAGAACAGGAAGGAAAAGGAGACTTAACAAAAAC CAAAGGGAAAGAGGGGGGGGGAGAACCAAGGAAAAGAAAAGA
 A GAAGCCGGGAAAAAAAAGAGGGAAAACCAGCCAAAAAAAAA $A C C G C C C A G G G A A G G A G A G A A C C G G A G G G C C G A A A G G G G G G A$ A G GAAAAAGAAGGCAGGCCAGAAAGGGAGGGGGAGGGGAAAG GAA A G GAA A GA A GAGCGAAAAGGGGAGGAGGGAGAAGCACCG AA $A$ A $T G G G G A A G G A G A A A A A A A A A A G G G G A A G A A A G G A A G G G$ G GAA $A \operatorname{GAAAAAGGGCAA} G A A A A A C G A C A G A G G A A A A G G G G G G G$ GAAGGAAGGAAGGGAAGGATTAGCAGACGGGAAGAAACAGAG GAAGGGGCCGGGGGAAAGAAAGGCCGGGGAGCCGGCCGAGGA A G GAGAAA $A \operatorname{A} G \mathrm{G} G A A C C A G G G G G G G G G G A A G A A A A A G A A A A G A$
 A A G G G GAAA A GAACCAACCGGAAGGCCGGAAAAGGGGGAAAA $A G G A A G G G G A A A G G G A G G G G G A A G G G G G G G G C C A A G G A A A A G$ GA $A$ A $A G G A A G G G G A G A G A A A A A G G G A G G G G A C A G G G A C A G A G$ G G G GAGGTTGGGGCCAGGAAAGAGGAGGGCCAAGGAAGAAAAA A G GA $\operatorname{l} C A A A G G G G G A C A C A G A A A A A A A G G A A C A A A G G A G A A C$ C GCGGCCGGGGAAAGGGGGGGACGGAAGGGAGGCCCCAAAAC CAAAAAGAGGAAGGAGGAAGGGGAAGAAAAGAAGACCBGCCC C G G A A C C G G G G A C A C C G A G G G T A A A C CA G G G CA G G G G G G C C A A G G G G A A G GAGGGGACAGAGGGGAGGAAGGAGGCCAAAGAGA AAAAACCAAGGAAGGCCGGAAGGAGCCGGAAAACCAAAAAAA $A C C G G C C A A A C A A C C G G A A T A A A G G A C G A A A G A A A A G G G C C G$ G G G A G G G G G A T A A A C G A A G A A G G G G G G G G G G G G A G A A G A A G T TAAAGGGAAGAAGAGGGAGGGAAAAGGCAAAAAGGGAAAAAC CAAA GAAAAAAAAAGCCGGAAAAAAAAAAGGGAGGAAGAAAC A G GAGGAGGGGCCGAGGGGGGGGAAGGCCGGCCGGAAGGGGA A A A A A G G G G G G G G A A G G TA $A$ A A A G GAAAA A A G G GAAAA A A T T G ACAGAAGGGAAAAGGCCAACCAAAGAGAACCGGAGAGAACAA ACCCCAAAAGAGAGGAGAAGGGAAAAAGGAGAAAAAAAAAAA A G G G G A A G G G G G G C C A GA GAGAAA A A A G G G G G G GAA A A G A C C G AAAGGGGAAAAGCAGGAGGGGCCGGAAGGGGAGAAAAAAAAA

T GAGGGGAGAAGGAAGGACAAGGCCCCAGGGGAGAAGAGAAA GAACCAGCAGGAGCCAAGGGACCGGGGAGAGAAAGCCGAAGG G G G A A G G G GAACC $A \operatorname{CAGGGGCCAAAGGGGGGGGGAGAAGAGAC}$ $C \subset C C C C G G A G G G A C C A A G G A A A G G G A A A G A G A A A G G A A A G G A$ A GAGAAGGAAGAACCGACCGGAGAGGGAAAAGGCCCCAAAAC C C C A G G G G A G G G A G G C G A G A A G A A A A G C A A G GA GA GAA G G A C
 G G G A G G G A A A G G G G G G GAGGGGGGCGGGGAGAGCCGGCAAAA A G G A A A A G G G A A A G G A A G G A G G G G G C C G A A G A A G G A C G G A A G GAAGGAAGAGGAAGAGGACAGGAGACCAGGGCCGGAAGGAAA G G GAAAAAAAAAGGGAACAAAAGAAAAACCAAAGCCGGCCA A A A G G G G A A A A A A A A A GAC $\mathcal{A} G G G A A A A A A G G G G G G G A A A A C A$
 A A A G G A A G G GAGAAACCAACCGAAAAAGGAACGAA GAGAAAA $C \subset C G A A G G G A G G G A A C C G G A A A G A A G G G G G A A C C C A G A G A G G$ A A A GAGGGGGGAGAAAAAAGGCGAAGGAACAACAA GGGGGGG GAAAAAAGGAAGGAAGAAAATGGGGAAAAAAGAAAGGGAAAG G G GA G GAACGAAGACGAGAAAAAGGCCCCGGCCCCGGAAGAG AAGAGCAAAGGAAGGGGGGAGGGAAAACCGGGAGGGGAAAAA A A A A A A A A A A A A A G G A A A A A A GGCCAACGGGCGGGGACACAG G G GAGAAAAAAAGAGTAAAGAGAAAATTAACAAACAGCCGAA GAGGGTACCGGGAAAGAAAAGAGGACGAGAGAAAGAGAAACT T G A GAGAGGAAGAGAGGTAGGAACAAGGGCAGACCBAAGGAG G G G G G A C G G A A G A A G A G G G C C G G G A G G G A A G G G A A A A A A G G A
 G G G A A GAAAAAGGAGGGAAGGGAAGGAAAAAAAGGAGCAAAC C GAA A A GCCGAGGAGAAGGGGAGGGAAAAAAAAAAGGAAAAA G G G G A A G A G G GCCAA $\mathcal{A} G C C G G A A A G G A A A G G G G G A G A A A A A A$ $A C C G G A A A A A A G G G G G A A A G G A A G G A G A G G G A A A A A G G G G G G$ GAGCAAAGAGAAGGGACAGGGACAAGGCCGGCAAACGCCCCB G G A A G A A G G A A G G G G A A G G G A G G A A A G A A A A A GA $\mathcal{A} G G G G A G G$ G GAGGATAGGGGAGAAGAGCAGACCAAAAGGAGAACACCGGA
 A G G G G A A G A G G A A A A C C G G G G A A C A GAGAGGGGCC G G G G A A A A G G A A A GCCAA GAGAGAAAGAAGAGAGACAAGACAGAAACAC
 AAAGGGGAACCAGAAAACCCAGGGAAGGAAGAGAAAAAAGAA GAAGAAGCACAGGAAAAAGAGGAGGGGAAAAGGGAGAAAAAC A A A G G G G A A A A GAGACCGAAGGGAAGAGAAAGGCCCCTXAAG GAACCAAGGAAGGCAGAAGGAAAAAGGAGGATAAAGAAGAGG A GACAAAGAAGGGAGGGAAAAGAAAGAAAGGAAAAAGAATTC CACGGGGAAAACCCCGGCCGGGGGGAACCGGAAAAAAGGGGA AGGAAGGGGGGCCCCGGAAAAGGAAGAAGAAGGAGAGGAGGG GAGAGGGGAAGGAAGGGGGAAAAGGAGGGCAAGGGACAGA$G A$ G G G A G C C A A A G A A G G A A G A GA G G G GAGAGAGGCATCCGAAA G GAAGGCAAACCACAGAGGGGAGGGGCCAACCAAGGAGGGGGG A G GAA A GAAAGAGGAGACAGAGAAAGGGGAACAGGGGGAAAG GTTAACAAAAAAAGGAAAAGGCAGAAAAGACAGAAAGGAACA G G G GAGAAGCCCAGAGGAAGGGACCGGCCGAAAGGCCAACC G GC G G A A A A A C C G A G G G G G G G G G G G G C C G G G G G G G A G G A G C A A A A G G G GAGACAAACCGGAGCAGGGGGGGAAAGGCAGGAGAGA A G GCCAG G G A A $A \operatorname{A} A A A G G A A G G G G G G G G A G G G G A G G G G G G G G G$ G G G G A T T A A G G A A C C G G G A A A A A A G A GA A A G G G G G G A A A G G G GAAAAAGACGGAAAAGGCCGGCAGGGAAAGACCAAGAAACCA A A A G GAGAGAGAAGGGGGAGGCCGGCCGGGAAGGGGGAAAAA GCAGGAACAAAAACCAGGGAGAGGGACAAGGGGGGGAGGGGG GAAAAAAAGAGGGCCGGGAAGGGGGGGGGGGGGAAA$G G A A G G G$ A A G G G A A G GA GAAAGAAGGAACAAGGGGACAAAAAAAA G A A A A A $G G G A A C G A G G A A T C C G A A A G G G G G A G A G G A A G G A A G A G G G G A$

A G G GAGAGGAGCCCAGACAGGGGAAGGGAGGCAAGAAGAAAA G GAA A GAA $A$ A $A \operatorname{A} A \mathrm{G} G \mathrm{G} C A A A G A C A A G A A G A G G A A A A G G G G G G A$ A A ATAAACCAAAAAGCCTTCCAGCCAAAAAAAGGGAACAGGG A G G A A A C G A T A A G G G G G G G G A A A A A A A C C G G G G GA G G A A G $G A$ AA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A \mathrm{G} G \mathrm{G} G A \mathrm{~A} G A A A A A A G G G G G G G A A G G G G G G A G A C$

 G G G A A A A A A G G A A G G G GCCGGCCGAGGAAAGCCGAGCA GAGA G G G G A A G G G A A G G G G A A C A A A C A G GAGGAGAGGAGGGAAAA G G G G G GAACCGGGGAAAAGGGGGGGGCACCGGAAAAGGGGGGG G G G GAA A A A GACC G G GAAAACAGAAGGGGAGAA GAA GAGAAA G GAGGGGAAAAGGACACCCGAGAGAGAAACCGGAAGAAACAA GAACGAAGGAAGAGGGAAAGGCCAACAGGGGAAAAAAAGAGG AA $A$ A $\operatorname{G} G A C C G G G A G G G G A A A G G G C C G A C A G A A G G A A G C A G A G$ AAACAGGGGAAGGAGCCAAAGGAAGGGGGGGAAGGGG
$A G G G A G G G G G A G A A A C G G G G A A G G G G G G G G G G A A G G A A G G A$ G G G G G G A G G G A G G G A A A G G T T A A A A A G G G G GA G A A A A A A G G G G G G G G G G G G A C G A C C C C A A GAGGGGAGGACCGGGGGGAAAAA GAGGACCAACGGAAGAAGAGAGAGAGGAGGACCAGAAAAGAG A GAG A GAGGGAGGGACCAGACAGGAGGAAAAAAGAAAGAAAG GAAGGAAAAGGAAGGGGAAACAAAAGGAAGGAAAGAAGGGGA ACACCGAGAAACAAGAAAGAGGAGATAAGAAAAGGGGGAAAG G G G G G A A G GAA $A \operatorname{G} G A G A G G G G G A G G A A A A G A A A A A C A G A A G A A$ GAGGGGAACGGAAGAGAAAGAGGGAAGCCGGAGAAAAGEGGA A G A A GCAAAGAGAAGCAGGCCACAGAGAGAAAAGACCAAGEC CAC GAA A A G GAAAGGGGCAGGAAAGAAAGAGGGAGGGAAGGC A GAGGAAAAAATTAAGGAAAAAGTTAAGGGGCCAAGGGGCCA $G G A A A A A A G G A G G G G G G G G G A G A G A A G G A A A A G A A A A A C G B A$ A G G A G G A A GAGGGGGAAAGGAGGAAAGAAGGAAGGAAAACAA $A C C G G A A C C A A G G G G A A G G G G C C A A A A A A A A A A G G G G C C G G G$ GAGGAGAGAAGGAGAGGAGGGAAAGGGGGGGGGAAGGTXCCG G G G G GAAAGAGGACAAAAACAAAGGAGGAGGGGAGAAAGAAG GACGGCCGAAGAAGGGGAGGGAGGGAATAGGGGTTAAAAGAG G G G G G G G A A A A A A A C G GAAGGAAGAGAGGGGAGAACACAAA G G G A A A G G G A A A G GAACCAAGAGGAACACCGGGGAAAAAAGAA A G G A A G G G G G A A A A A A A G A A G A G G GAGAAAATTGGCCA GA G G AAGGGGAGGAGGAGGAAGGCCCCGGAAAGGGGGAAAGGAAAA AAAAACAGGAACCGGGGAAGGAAAAGGCCAAGGAAAAAACCA C A A A A A A $\mathcal{A} G G G G G G G A A G G G G A A G G G A G A G G A A A A G A A G G B A$
 AA $A$ A A G G G GAAGGAAAAGGAGAAGAAGGGACAGAAGAAAAAA A A A G G A A A GCA $\mathrm{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} G \subset \subset A A G G G G C C G G A G G A C C G G G C A$ A A G G G G G G G G GAAAAGGAGAGCGAGCCAGAGAAGAGGAGGGA A G G G G G A A G A G A G G G G A G G A A A A A G G G A G CAA A A G G A A A G G A A A GCCAAGGGGAAAGAAAAGAAAGGAAGGGAGAAGGAAAAAG A GAGAGGAAAAACATCCGGGGGGAAGAGAGAAAAAAAGAGAA A A A A A G G A GCAACCAAAAGGAAAGGAAGGGGAAAGGAGAGGAA GCAGAAGAGAGAAAACCAGGAGGCCCAAAGGGGGAAGAAGAA GCAAAAAAAGACCAGGGAAAAGAAAAAGGAGAAAACCGAAGG $A C C A A A A A A G G A G A A G G G G C C G G A G G A G A G G A A C A A G G A G B A$ A G G G G A GA $A \operatorname{GG} A A A A A A A A A G A G G C C A G G A A G G G A G G G A A A A A$ C G G G G G A A A A A G G G G GAAA A G GAGAGGAAGGGAGGGGGGAAAA A A TCCAGGAGACAAAAGAGGAAGCAGACAGGGGGGGGGACGA AA $A$ A $\operatorname{A} A G C G A A G A G G A G G G A A G A G G C C G A A G G G G G G G A A G G G$ GAAAACCGGAAAAGGAAGGGAACCCGACCAAGGGGAAGAGGC A G G G G A A G G G G G G G G G A A G A A A A G GAGAAAACCGGCCAA G GA A G G G GAACCGGAAGAAGAAGAAAAAACGAGACCAGAAAGACA GAAGAAAGGAGAAAAAAAGCCGGGGAAGAGGAGCCAACCCCA AAAAGAGCAAACCGAACAAGGAGCCGACCGGAGCAGGAGAGG

G GAGGGGCCACAAGGCAGAAGAAGGGGAGGGGGGGAAGAAGA GA $\operatorname{G} A A A G A A G A G A A C G G A A A A G G G G G G A C G G G G G G G G C A A A C$ $G G A A G A A G G A A G G G G A G G A A A G G G G A A C C A A A G G A G G A G G G G$ GAAAGAGCACCAAAGAAAAGGGGAAAGAAAGGAGAAGAGAAC A GAGAGAGAGAGAAAAGAGAACCCCGGAGAAAAGAAAAAAGG A A A A A G G G A GAAAGGGGACAGAAGAGGAAGACACC GAAAAAA GAGCAGGAACAAAAGAGGGGAAAGGGGGAGAAATTAAGAAAC A GAAGGAGGAGGGAAAAAGAGAGGGGGACAAAGACAAAAAAA A GAGGGGACGGAGACAAGACAGAGAGGAGGAAAATAAACCCG AAACCAAAAAGAGGAGAGAATCCCCGAAGGAGGAAAATTAGG G G G GAA A A A A A GAAAGGAACCGGAGGGGGGGAAAAAAAAAAC A G G A A A A G G G G A A G G G G A A A GCCGGGGAACCAAGGGAAAACA CAAAAAAGGGAAGAAAGAAAGAGAACAAGGAAAAAGAACACA A A A G G A A G G A A G G G A G A A CAAGGAAGGCCAGAAAAGAAAAAA G G G G G G G G G G GAACCAAGAACGGGGGACCGGAAAACCCAAAA A G GCCAGGAAAAAGGAAAAAAGGGGGGGGCCGGCAAATAGAAA A A A A G G G A A A A G G G GCCAGAAAAGAGAAGAGAACCAAAAAGC
 A G G G GACGGAAGGCAGGGGGGAAGAGAAAGAGAAACACACAA
 $C G A G G C C A A A A G A C C C A G G G A G A A A A G G G A G A A A A G A A A G G A$ G GAGAGAGGAGACAAGAAGGAAAGGAGGAGAAGGGGGAAAAG G G G GAAA $A$ A A G G GACAAAAAAGCAAAGGCAAAAAGGGAAGAC G ACAAAAACAGGGGCCCCCAAACAGAAGGGGGTTAGGACCGGG G GAAAACGGGAGGGAAGAAAAAAAAAGGGAGGGAAAAGGGGA A A A G G A A A A G G G G G G T T A A A A C C G GAA $\mathcal{A} G G G G G A A G G A G G A G$ A GAAGAGAAGGCCGACCGGAAGGAGGGCCGAAAAGAGAATTG G G G A A A G G G G A C C G A G A GAGAGGAGCACAAGACAAAGCGGAA A A G G A A G G GCCAA $\mathcal{A} G C C G G G G G G G G A A T A G G G G G A G G G A G A G$ AAAAGGGAAGGCCATCAGGGGGGGGAGGGGAGGAAAAAAAAG GAACCAGGGAAACACAAAAGAAAAAAAGGAAAAAA GAAA G GAG GAAAAGGAAGGGACAAAGAAAAGAGCCAGAACAAGAGCAAAA A A A A A G G G GAAAAAGGGGGAAAAGGAAAGAGGGAAAGAGAAA $A G G C C A A A A A A G G G G A A G A A A G G G G A A G G A G A A G G G A G A G A G$ G GAGAAGAGGAGGGGGAACAGAAGAGAGGCCGGGGGAAAAAC C C C T TA GAAGGAGAAAATTAAAGGGAAGGAGAAAGCCAGGGA GAGACCGAGAAAGAAGACCGGGAGAGACAACAGGGAGACGGG G GAAA AAACAAAGGGAAGGCCAACCAGACAGAGAAAGBAGAG
 G G G G G G G A A G G A A A C A G A A A A G G G G G GC C A GAA A G G G G GAA A GAAGGAAAAGGAAGGGGGGGGGAGAGGCCCCGGAAGGAAAAC CAAAACCGGAAAGGGGGAAGAGGGGCCGAGGAAGACACAAAG A AACCAAAAAAAAGAAACCCCGGGGAAAGAAAAAAAAAAGGA $A A C C A G G A G G G A G G G G G A A G A G G A A G A G G A A G G G G A A A A G G G$ G G G G A A G G G G G A A GAGGGAAAAGCAGGAGGGAACCGGAAAA $A$ G G G G G G G A G A A A A A A A A A A G G G G A A A A GAGAACCAGGCAGA G G G G G G A A A GAAGGCAGGGAGACAGGAACCAGAAAGAGAACAA G G GACAAAAGGAAAAGGCCGGAACCGAAAGGGGGAGGCAAAAA
 A A A G G GAAAGAAGGGGGAAGAAAAAAGGAGGAGAGAGGAAAA G G G GAAAACCCAACCGGAAGGAAGGCCGAAATAAAGGAAAAA A A A A C G G G GAA A A CAGGCC GACACCAGACAAAAGGGAGGGGG G GAGAAGAGAAGACCCCAGCCGGGGAAAGGAAGGGGGCAAGG GGGAAACCCAAAAGGAAAAAAAAAAGGAACCCCAAAAGGAAA $A G G A A C C G G A A G G A A G G G G A A G G A A G G A A A A G G G G G G G G G G G$ G G G A A G G G G A A G G G G A A G G A A A A G G G G G G A A A A G G A A G G G G A A G GAA A GAACCAACCGGCCGGGGAAGGAAAAAAAACCAAGGG $G C \subset G G A A A A A A A A C C G G G G A G A A C C C C G A G G G A G G C C C A A A A$ AAAAAGGCAAAGAACAGGAAGGGGGGGGAAGGGAAAAAAGGA

A G GAGGGGGGGGGAAAGGAAACAGGAGGAGGAAAGAGAAAAG
 A A A G GAAGAAAAAGGCAAGGAGGGAAAAAAAGGAAGGGGGGA GAA A G G G G G G G G G A A A A G GAA $A \operatorname{AGGGAA} G G A A G G A A A A A G A G A$ A A G G G G G G G G GAAAAAAAAAACAGGAGGAAGGCCGGGAAACAA G G G C C G G G G A A G G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G $G C C G G A A A A A A A A G G A G A G G A G A A C A G C A A A A A A A G G G A C A G$ GGGGGAAAAAACCCCCCGGACAACCGAAGAACAAGGAAAATA GAGAGGGGGGAGGGAAAAAGAAAAGAAAATTAAGGAAGEGGA GAGAGGGAAGGAAGGCCAAGAGGAACAGGAGGGAAGACCAAA GAA A G GAAGCCGGGGGAGGAAGGACGGGGCCAAGAGGAAGGA ACAAAAACCCCCCAACAAACAACAGAAAGAAAAAAGAGGGGG ATAGGGGCCGGGGGGCCAGAGGGGAAGAGAGAGAGAGACGAA ACCGAGAAGAACCCCGGAAAGAAAGGGCCAACCCCGGAAAAG GAAGGGGGAGGGAAGCCGGAACAAGGGGAGAAAAAGG
GGCCGGACGGAAGGAAGGAAAGGGCCGAACAGAGGGCAAAG GAACAGGCCGGAAGACAAGGGAGGAAAGGGGGGAAAAAAGGG G G GCCGGAAGAGAAAAGAGGAGGGGGGGGAGGGAGCCAAAAA $A G G A G G G A A A A G G A A G G G A G G G A G A G G A A G G G A A A A G A A A A G$ A G G G G G G G G G G G G A A A A A $\mathcal{A} A G A A G A A C G A A A A A A G G G C C G G C$ $C A C G G A A C C G G G G T T G G G A A G C A G A A A A G G A G G G G C C A A C C A$ A A GAGGAAGAAGGAAGGAGGAAGAGAGGAAAGAGGCAAACAA
 $A G A G G G G G A A A G G G G A G A G A A A G G A G G G A A A G G A A G G G G G G G$ A G G A A A A GAGAGGAAAAAGGGGGCCGGAGCCAGCAGGGAAAA AAAGGGGGAAAGAAAAAAAGAGGGGCAGACCACAGAGAGAGG G G GAA $A \operatorname{G} G A A A C C G G G G G G G G A A C C C C G A G G G G A G G G A G C A G$ G G G C A A G G G G G G G A A G GCCAAAAGGGGCXAAGGAAAAAAGAA
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C G GAAGGAAGGACAAGGAACCAACCGGGGAAAAGGAAAACCA $A C C A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G$ A A G G G A A G A A A A GACAGAGCCGGGAAAGGGGACAAGAAC G GA A G G G G G GAAAGAGGAACGAAAGGGGAGGAAGCCGAGAAAAAG G G GAGAGGAGGAACCGGAAAACGCCAGAGCAGAGAAAAGGGG G G G A G A G G G A A G G A A G G G G A A A G TA $A$ A A A A $\mathcal{A} A G G A G G A G G G G G$ GAAGGGACAAGCCGGAAGAAAAAGGTTAGAAAAAGGGGAABA TCACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAG GAGGGAAGGGGGAGAAGCCAGAGAGAAAAAGGGAGAAAAGGA $A G G G G A A A G G G A G C A G A A A G G A G G A G G A C G G C C A G G G A A A G A$ G GAGGAGAGAGAATTCCGAAGGGAGGGGGAAGGAGAGGAAAA C G A A G A A A G G G G G A A G A A A A GAGGAAGAGAACC G GAGGACCC C G G A A A G A A A A A C G G G GAA $A \operatorname{GGGAGAGAAACGGGACAGAGAAG}$ GACAAAAAAGGAACCAAAAGGCCAGGGAGGGACAAGGGGGGG A GAAAAAGGCCGGGGAAAAAACCAACCGGGGCCAAGGAGAGG
 GAAAAAGGGGAACAGAGGGGAGGGGGGGGAAGGAAGGABAAG $G C C A A A G A G G A A G A G G G A A G G C C A G A A G G G A G A A G G A G A A G A$ $A G A G G A A A G G G A A G G A A C A G G G A C C G G G A G G G G G G G G G G G G G$ GCC G G A A G G A A G G A A A A T T G G G G G G A G A G A G G A G G A A G G G G A GAACCGAAAGGGGACGGGGGGAAAAGGGGCCGGGGCCGGAAA
 A G G G A A G G G G G GACATXCCAGGAAAGGCCGGCCAAGAGAAAA GA $A$ A $A$ A A $\mathcal{A} G G G A G A G G G G G G G A G G G T A G G A A A A G G A A C A A A G$ A A G G G G G A A A A G GA A G G GAAAA A A G G GAGAAAGGGAAAAAA $A$ GAACCAACCAAGGAACCGGGGGGGGAGCCAAAAGGAGAGGGG GAGGGCCAAAGAGAAAGAAGGCCGACAAGAGGAGAAAAAAAA A A A A A A GCCAGGGGGCCAGGAGACAGAAGAATTAAGAAAGAA A G A A G A A G G A G A G G G A G A G G G G A A GAGCCGGAGCAGAAAG G G GAAAGGGGAGAAGGAAAGGGCAGTTAAGGAGAAGACAGAAAA A GAGGGGAAAGAAGAGGAAGGAAAGAAAAAGCCAAAAGGGGC AGGGGACGGCCCAGAGAAAAGCCACGAAGAGAAAAGGAAGGG G GACAAAGGCCGGGGAAGGGGAAAAGGAAGAGAGGCAAGCCG GAGGGGGGAGAAGGAGGCAGACCGGGGGGGGAGGGACAAAAC CACGAGGGGGAAAAGCCGGGGGGAAGGGAGAGACAGAAAAAA C G A A G T A A A G G G G A G G G C C G G A A A G G G A A A G C A G G G A G G G A A AAAGAGGCCGGAAAAGAACGAGGCACCCCACAGCCAGAGAAA GAAAGGGAGGAAAACGGGGAAAAGAAGAAAAAAGAAAGGGGG A G G G G G G G A G G A A G A A A A G A A A A A G G GAACCCCAACAAGCAA
 A G G G GAGACAAAGCAAGGGACAGCAAGCACCGGAAGGCAGAG
 A G G G A G A G G G G G G T T G A G G G G G G G G A A A C G A G G G G G A A A $\mathcal{A} A G$ GAAGGAAGGAAGGAAGAAAGGCGATAAGAGGAGGAAGABAAG GAAATACAACCAAGGAAGGGGAAAAGGAAGGAAAAAACAGAG GAACAGGAGAACACAAAGGGGGAACAAAAAAGAAAAAAGAAA GGAGAACAAAAAACACAAAAGGAAAAACCGAGGAGGAGAGAA ACCGAACGGACAAGGGGCAAAAAGAAAGGAAGGGGGAAGCAA C GAAAAAGGAGGAAAAGAGACGGCCGGGGGGGGGGCAGAGAA A G G A G A A A G GAGGCCAAGGAAAAAAGAGAGGAAGGGAACGBA GCAACGAGAGGGAGGGGAACAGAGGGAAAAGAAAGGGAGGGA A A A G G G G G GAAA A A A G GAAAAAAAGAGGGGAAGGCACCCCGGG G G G A A A A G GAAA A G GAGAGAAAAGGAAAAGGCAGGGGGAGGA AAAAAGAGAAGGGGAAAGGAAGAAGGGGGGGGGAAGGGAAAG GAAGGCCAGAGCAACGGAAGAGGCCAAAACCGAAAGGGGGGG G GACGAACGGAAGGGGGGACAACAAAAAAAACCGGAAGGGGC C GAGAAGAAGAGGAGCAGGATAGGGGGAGGGAGAGGGGAAGA A G A G G A G A C G G A A G G A G A A G G G G A A A G G G C C G G G G A C A A G G G G G G G G A A A A G G GCACAGGGGGAAAGGAGGGAGAGGCAAAAAG

A GAGAGAAGAGGGGGGGGGGCAAAACCAGGGCAGGGGGGAGC CAACCGGGGAACCGGTTGGAAAAGGGGCAAGGGAGGACCCCA GAAGAAAGGAAGGACGGAAAAGGAGAGGGGGAAGGAGCAAGA A A G GAA A A A CAGGACGAAGGAGAGGCCAAAAGAAAGGGGCCA ACACCGGAAGGGGGAAACACCGAGGAAGGAAGGGGAAAAAAA A A A A A A A GAGGAAGACAGAGGGGGGCCGGCCAGAGAGAAAAG
 $G C C G G A A A A G G A A G G A G G A G G G G G G G A A A G A G A G G G A G A T A A$ CAAGGGAAAAAAAGGAAAGAAAAACAAAAAAAACCBAAGAGA GCCGAAAAGAGAGAGCAAAGAGGCCGGGAGGGGGGAGGAAAA $A C C A A A A A G C C G G C A G A G G C C A A A C A A C A G G A A A A G G G A A G A$ GAAGGAATTAGAGCACACAACGGGAGGAAACGGGGGGACAAG $A \subset C A A A A G G G G A A A A A A G G G G G G A A C C G G A A C C A A A A G A G A G$ G G G A A A G G G G G G G G A A A A A A A GACCGGGGAACCAACACAAGAC $C A G T T A A G G A A G G G G A A G G A A G G A A A A G G A G G A G A A G$
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 AAAGGAACCGAAAAAGGCCGGGGGGAAGAGAGGAACCGGGGA C GACCAAAAGAAAAGCAGAAAAAAGGAGAGGAAGGAAGGGGG GAAGGGGAAGGAAGAAAGGGGGGAAGGGGGAGAAAAGGAAAG AACAAAGGAAAAGGGGAACGGAAGAAAAAAAGACCAAAAAAG G G GAGGACCGACAAGAGAAGAGAGGAAGAGAGATTGAACAAG $G C C G A A G A A A G G A G G A A A T G A G G C C G G A G A A C A A G G A A A G G G$ A GAGGGACCGAAAGGAAAGCCCCAAAAGGGGAAGGGGAAAAG AGGAAAAGAAAGAGGCCGGCCAAGGCCAAAAGGCCAAAAGGG G G GAA A A G GCCGGAGAGGGAAGAGAGAGAGACCGGAAAGAGA G GAA A A GAGAAGGAAAAGAGGAGAAAAAAAAAGGGGGAGAAA AAGCCATGGGGGGAAACGAAGAGAAAGGAGAAAGGAGCAAGA A A GA $\operatorname{A} A A A A \operatorname{A} A G G G A A A A G G G G G G G A A A G G A A G G C C A A G A A A C$ CAAGGAAAAGGAAGGCCAAGGAAGGCCGGAAAAGGGAAAGGC $C G G G G G G G G A A A A A A G G A G A G A A C C G A A C G G C C G G C G G G G G C$ $A G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A G G A A A G A G G A A$ A A C G A G G G A GAA $A \operatorname{GA} A G C \subset A A A A A A G G G A G G A A A A G G G G A G G$ GAAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G G A A G G A A G G C A A G A A G G C A G G G G G G G G GAC C G G A A A G GAAGGAGAGGAAAAAGGAACAGACGGAAGGGGACAGGGCCG

G G GAAAACCGGAGGAAAAGAAGAGGAAAAGGAGGAGACAAGG G G G A A A A A G G A C C G GAGGGAAGGGGGGCCGGAACCAAGAAAA A A A A A A A C C G G A A G GAGACCCGGCACCCAACAAGGAGGGG GA A G GAAACAAGAAAGGAAGGGGGGCCGGCCAAGGGGCCGGGAG GAAGGGGGGGGAGGAGACCATAAAAGGCAAAGGGGAGAAAAA GC $C A G G G A A G G A A C C A A G G G A G G G G G G A C A G C A G G G G G G G A G$ A G G A G A G A A A G G G G G G G A A A A A A GAAAAACAA AAAAAA A A A G GAAAAAAGGAGGGAAAAACGGAGAAAAGAGGAAGAAAGGGGA A GAAAGGACGAGGAGAAGGAGGGAGAGAAAAAACCGGAAAGA G G GAAGGCCACGGAGAAAGCAAAAGCGAAGAAGGAAGGAAAA G G GAA $A \operatorname{GAA} \mathrm{~A}$ GAAGACAGGCCCCGACCACGGGGGGGGGGCAA G G G GAGAAGAGACGGCGGAGGACCCGGGAAAAACCAACAAGB $A G A G G A A G G G G G G A A A A G G A A G A A A G G A A A G G G A A A G A G G G A$ G G GAAACGGAAAAGAGAAGGGCAAAGGAAAAAGCACAGAAGA GAAGGGGGACCAAGGCCAGGGAAAACCAAGGAAGGGGAAGGA A G GAAAAGGAAAAGGCCAAAAGGAAGGAAAAAAAAAGCAAGA
 G G G G G G A G A A GCC G A A A G G A A G G A A G GAAAAAGGGGGAAAA G G G G GAAAGAGGGAGAACAAAAAGCAAACAAAAGAGGAAGGGA $C \subset C A A C C A A A G C C G G C C G G T T A A G G G G G G A G G A G A G G A G G G G$ A G GAA A G G GAGGGAGGAGGAAGACAGAGAAGAAGGGGGAGGA A A G G G A A A A G A A GAAGGGGGGCCCCCCGGGGGAGGAAAAAAG GAAGGAAGGGGAAAAGAAAAAGGAAGGAAAAGGAAACGGGAA A G G A G A G C C G G G G G G A G G G A A G G A A A GAA A A CA G GAAAA A G A C G G A G G G G A G G A C G G C A G G G G T T G A A G GAGGGA GA GAAAA A A G GAACAGAGGGGGAGGAGACCAAGGGGGGCCCCAACAAAAAAA AAGGAGAAAAAGACCAAGAAGCCAAGAAAAACAAAAAGAGGA A G G A A C C A A A A G G G GAGGAAACCAAAAAACCAAAAGAAAAAA
 C G G A A A G A G GAGGGGGGGAGAAGAAAAACAAGGGGGAAAGGA A G G A A A A A A C C A A A A A A G G A A A A A A G A A A G GAA G G A A G G G G A G G G GAA A AA GAGAAGAGAAACCAAAAAAAAACCAGGAGGGAA GAGACGACAGGGGACGAAAGACAGGAAAGAAGAAAGGAAAAA A G G G G A G A A A G G G A A A A A A GAA A A A G G GAG GAA G G C C A G G G G G G G A A GA G GAACC G G C C G G A A A GAGAGGAAAAGCGCAGAGAA A A GAGAAAAAAGGAAAAGGGGAAGGTAGAGGAAAAAACCCAA A G GAAAAAGGGCAGGCCAGAAGAAAAAAAGGCAGGGGAAGAA G G G GA GAGACAAGAGAAAGGGAAGACCGGAAGGGGGAAAGGA G G G G G A A A A G G G G A A A A A A A G G G G G G A A A A A A GAGGGAAAC C G
 $G C A G A G G A A A G A A A G G A A A G A A G G A A A C C A G A C C C G B A A G G G$ GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGGGAAAAAAAAAGAACCCAGAGGGAAAGGGGCCAGC CAAAAGGAAAGAACAAGGAGAGGGAGAGGAGGGAAAACAGBA GAACCCCAGCAGGAAAACCAACCGGGGAGGGAAAACCAAAAA A G G A A C GAA $A \operatorname{GCC} C A A A G G G G G G G A G G G A A G G A A A A G G A A A A G$ $G G A G G A A G G A G A A G G G G G G C C A A G G G G A A G G A A A C G G C C G G G$ GAAAAGGAGAAGAGGCACCGGGAAGACGAAACCAAAGGGGGA G G G G G G GAAAACCGGCCAAGGGGGGGAAAAAAAAAAAGAAAA A G G A G A A C CAA $A$ A G A A GCCAAAAAACCCCAAAAAGATAAATG GAAAAAAGAAAAAAAGGGGAAGGAAAAGGGGCCGGGGGAGAA AAAAAGGGGAAGACCGGCCAAAAAAGGGCAAGGGGAGAAAAA G A A G A G G G G G G G A A G T T G A G G A A A A A A A A G G C C C C C C G G C C G GAAAAGAAGAGCGCCAAAGGATTCCACAAAAAGCCCCAAAAA A G GAC $\mathrm{C} G \mathrm{C} C \mathrm{C} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A C \subset A G C A G G G A C C G G A A A A A G G A C$ CA $\operatorname{C}$ TAAAGGGGAAGGGAAAGGGAGAAAAGCAGGGGCAGAAAA A G G A A A $\operatorname{A} A A G G A A A A A G G G G A G G G A G G G G G A G G G A G G C A A A A$ A A A G G A A A A C C A G GAGAGGCCGGGGTTGGCCGGAACCAAAA G AAAAACCAAAAAAAAGGAGGAAAAGAGAGAAAAAAGAGGGGA

ATTAAGGAGAGGAAGAAGGGGGGAAGGGAGGAAAAAAGAGGG
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 A G G G G A A $\mathcal{A} G G G A A A G G G G G A A A A A A G A A A G G A A A A G G C C G B A$ GAGGGGGAAGAGGAAGGAACCGAAGAGAAAAAACCBAAAGAA A A G A A T TA $A T T \mathrm{~T}$ TAAAGAGGGGGAAAAAAAGGGGAAAAAATTA A A A A A A A G G G G G G G G G G C C G G G G G G A A A A G GAA A $\mathcal{A} A G A G G G A$ AAAAACCAAGGAGAAAAACAAGGAGGGGGAAAAAAGGGGAAA A GAACAAGACAAGACAAGGAACCGGAGAAAAAGAACCAGCCG $A C A A A G G C C G A A G G A G A A G A G A A A A G G G G G G G G A A G A A A G A A$ ACAGGAGGGAAACGAGGAGAAAACCAGCACAGGAAAAGCGGA A G G G G C C G G A G G G A A G G C A G A G G A A A G G G A A G G A A A A G G A A G GAAGGGGCCAAGGGAGGGGCCCCCCCAAAAAAAAAGG
G GCAGAGGGGCCAAGGGGCCGGGAGGAACCAACCCCCACC G GAAGGAAAAGGAAAAAACCGGGGGGAAAAAAGAGGCAAAGAA GAGGAATAAAAAGAAGGAAAAGGGAGGGGGGAAAAGAACAAA AA $A$ A $A$ A $\operatorname{Ag} G G G G G G A A A G A G G G G G A A A A G A A A G G G G A A A A A G A$ A A A A G G G G A A A G G G G G A G G A A A GAACCGGAAAGCCAACACCG GAACCACAAAAAAAACCAAAAGGAAAAGGAAGGAAG GAAAAA A G GAACCGAGGGAGGGGAAAGAGAAGGAAACGGGGATGGAGA A A A G G A G A A A A A A A A C CAAAGGCGGGGAAAAGGGAGGAAA GA A GAA $A \operatorname{G}$ GAAAACAAAGAGAGAAGAGGCCGGAAAAGGAACCCCB G G G G G A A A A A C G GCCGGAAAAAAAAAAAACCAAGGGGAGACA GAGAAAAGGAAGGAAAAAAAGGAGGAAAGAAAGGGCGAGGGC CAAAAAAGGCCACGGGGGGGGAGGAAGAAAGAAGAAAAGAGG GCAA C G G G G G G A A A C A A G A A GAGAAGGGGAAGGGGCAA G CA G A A C A G A G G GCCTTGGGGCCCCGAAGGCGAGGGGAAGGAGAAG $G G G C G G G A C G G A A G A G G T T G A G G A G G G A A A A C C C G A A G A G A A$ G A G G G A G G A A C A G G G G G G G A A A A G G A G G G G A G G G A G G G G A A A AAAAGAACACCGAGGAGAAGGAAGGGGGGAAGAAAAGAACC G G G G A C T T G G G G G G A G G G A A G G G G A A A GAGAAGGAAAAAACAA A G G C C A A A A G A G G G A A A C G A A G G G G G G A A G GA G A A G G A G A A G GAAGGAAAAGGGGAGAAAGCAGGCAGGAGGCGGGGAAAGAGG GAGGAAGCCAGGGGAGCAAAAAAGAGAAAAAGGAAGGGAAAA ATTAAGGAGAAACAAAGGGGGGGGGAAAAAGAGAGAAGAGAA A A GAAAAGGAGCCGGAAAAGAGACCCCCCAAAAAAAAGACAT TAGCCTTGGGCAACCGGGGGGGAGAGGAAAGGAGAAGAAAAG A G G G G A A A G G G A A G G A A A G GAGGGGGGAGAAGGGAAAAAAAA A G GAAAGCAAGGAAAGGAAGGAAGGAAAAGGAAAGAAGAAAA A G G A G A A A A A C G G G A G A T T A G A G A A A A G G G G G G G G A A G G A G G GAAGGGGAAGGGGGGCCGAGGAGGGGGAAAGAAAAAGCCGGG G G A C A G A G A G G G G G G G G G G G C G G A A G G A GAAACCCCC GAA G A A A G G A A C A A A A A A G GAGCCAAAAGACCCCAAGAGAGAAAGGA G G G G G A A G G G G A A G G G G C C G A G G A A G A GAGGGAGGGAAAAAA TAAAAGGAAGGAAGAGAAAGGAAAGAAAAAGGGAAATCAGAA G G GAGAAAAGAAACCCAAGAAAGAAGAAACCCCAACCAGGAG A A GAA A GAAAAAGAGAGAAGGCCAACCGAGAAAAAAAGGGGG G G G A G A GCCAAAGCACCGGGAAGGAGAGAAAAAAGACGAAGG G G A A A C C A A GACC G G G G G G G G A A A G G GAAGGGGGGTAAAAA $A$ A A A GAGGAAAAAAAAGAGGAACCAAGGAATTGGGGAAGAGGC CAAAGCAGAAAAGAACCAAGAAGAGGAAGAAAGGAGGCAAAA AGGGGGGAAGGCCAAGGAAGAGGAAGAAGGAGAAGGAAAGAA A G G A A G G A A G G A A A G G G C A A A A A A A A A A A A A A A A GAA G G G G G C G G G G G G A A C C A A A A GAAA A GAGGAATAAAAAGGGGGGACAA A A GCCAGGGGAAGAGAGAAGGGGGGAGGGCAAGAAAACCGGG $G C C A A A A A A A A G A A A A G A A A G G A G A C C G G C C A G G A A A A A G A C$ $C \subset C A G G G A A A A G G G G A A G G C C C C A G G G G G G G G G A A G G G A A A A$

A G GAAAAAAAAACGAGGAAAGGGAGGAGGCCCCGGAAGGCCG G T A G A A A G A G G GAGGGGCACCGGGAAGAGCCGGAAAAAAGAA GAGGAGGGAGAGGGCACAGGGAACCGAACCAACCCGAAACCT TAAAAAAGGAAAAGGAAGGGGAATTAAAAGGGGGGAAAAGAG $G G G C C G G G G G G A A A A G G G G G G A A G G C C G G G G G G A A G A A A A A G$ G G G G G G G G G A A G G G G G G A A C C G G C C A A G G G G G G G G A A A A T T A $A C C G G A A A A C C G G A A G G G G A A G G G G A A G G C C A A G G A A G A A A G$ GAAAAAAAATTGGGGGGAAGGCCGGAAAAAAGGAAAACAGGA A A A A A G G G GAA $A \operatorname{G} \operatorname{A} A A A A G G G G G G A A C C G G A A A A A A G G A G A A G$ G G GAAGGGGAAAAAAAAGGAAGGGGGGAAGGAAAAAAGAAAA ACCAAGGAAAAGGGGGGAACCAAGGAAAAGGAAAAAAAAAAA A G G G G A A A A C C C C A A C C G G A A A A G G G G G G A A A A G GAAAA A G G G G G G G G A A C G G G G G G A A A A G GAC G G G GAAA A C G G A GA G G GAA $\mathcal{A}$ G G G A G G G G G G G A A A A G G G A A G G A A A G G G G G GAAAA A A A G C C C $A C C G G A G A A A G A G A G A G G A G A A A G G G G A G G A G A A A G G G G A G G$
 C G GCC G G G A G G A GACAAAT GAGAACAAGGGAGGGAGGGGCCG GAGAAAGGGGGCCAAAGAAAAGGGGAAGGAAGGAAAAAAAAA $A C C A G A G A C G G G A A G A G G A A A A A G G C C G G A A A A A A A A C G G G A$ A G G A GCC G A A A A C C A G G G G G GC C A A C C G G G G G G G G A G G G A G G GAGAGGGACGGAAGGGAGGAGAGAAAAGAACGGCAGGGGGGG G G GCCAGAAGGAGAAAAAGATGGAAGACAAAGGAGAGAGAAC C G G G G G G C C C C A A A CAAAAAA A $A$ A G GAACAGGAGAGGGGAAAA C TACAAAACACAGAGGAGGAAAAAGCCGGGAGAAGAAGAAAC C G A A A A A G GAACCAGGAAAAAGGAAAAGGAAAACCCCGAGAA G G GCCAGACGAGGCCGGGAGGGGGAGGGGGGAAACGGCAAAG ACCGGGGGGGGAACAAAAACCAAGGAAGGAAAGGAGGAGGGG $G C A A C G A C A G A G G A A G A A G G A C A G A A G A A A G C A A A G G A G C C G$ GCAACGAGGAGGGGGGGGGGGGGGGAGAGAAACAACCAGAAG A G G GAAG GAAAGGAAACAGTTAAGAGAGGGGGGGAAAAGAAA
 G GACCAAAAGAAGAGAGAGAAGGGAGGGGAAAAGGGGAAAAA A G GCCAGGACAGGAAAAAGGAGGACCCGGAGGGGGAGAAGAG GA $\mathrm{G} A \mathrm{~A}$ G G G A A C G A G A G G A A G G A A G G C C G G G G G G A A G A C C A G A $A C A G G A G C C C C A G G G A A A A A A G G G G G G A G G A A G G G G B A A G A A$ A G G G G A A G A G G G G G G G G G A GAA A G G G G A A A A G G A G G C G A C A A G GAGGCAAGAGGGGAGGAAAGAAGGGAGGAGAAAGGGACGGG A A A C A CAG G GA GAAAGGGAAAAAGGGGGGGGAAGAAAGGCCG G TATTXCGGGACCAGGGGAGAGGAAGGAAATAGGGGBAGGGG G GAGGGGGGAAAGGGGGGGCCGGAAAAAAGACCGAAGAGAGG $A G G A A G G G G G G A G A G G A A G G G A G G A G A G G C C G A G G A A A G A A G$ GAAGAGGGAGAGACCGGAAAGAAAAAGAGAGAGGGAAAAGAA GAGCCGGGGAAGAGAAGAGGGAAGGGGGGAGACAAGAGGGGC A G G A G A A A G G G G G G A G G A A A G G G A A GAA G GAA A A A A GAAAA A A A A A A A A G GAGGGGACCACGGAGGAGGGGGGAAAAAAAAAAA
 GACCC G G G G C C G G A A A GAGGGGGAGAACCGGCAAAAAGACCA A GAAGGAGGAGCACCGGAAAAGGGGCAGAGAGGGGCAAAGGC $C \subset C G G C A C C A A G A A A G G A A G G G A G G G A A G G A A A A A G A G G A G A$ $A G G G G A A A A G A G G C C G G G G C A A G A A G A A G A G G A G A G G G A C A G$ GCCGGGGAAAGGAGCACGAGAGGGGAGGAGGAAGACCGAACA GACAGATAAAAAAAACCGGAAGAGAAAGGAAGGGGCCTTGGG G A G G G G A G G G G A G G G A A A G C C A A A G C C A G GAAAAATTAAAAA A G GAA A GAAAGAGGAAAAAGAAAAGGAGAAAGAGGAACCCCC CAAGACCGGAAGAGGAAGAGGAAGAAAAAGGAACCGGGAAAA AA GAGGACAAAGACAGAGAAAGGAACCAAGGCGGGGGGABAA A A GAA A A G G G G GAACGGAAAACAGGGAAGACAAAGGAGACAA A A C G A A A G GA GAGAAGGGGAAGAGGAAAAAAAGAAGAAAGA G AAAGGAAAAAGGACCAAAAGGGAAGCCAAAAGAAGAAAGCCG

GCGAAAGACAAAGGAGAAGCAGAAAGGAGAGAGACGGACAGG A G G A A A A A A A A A G A A A A A A GAAA $A$ G A A GAGGAAC CAC G G G G A $G G A T T G A G G G G A C G G A G A A G A C C G G G G A A A A G G G G G G G A A G A$ GAGCCGGGGCAAAAAAAGAGGAACGAGGAAAGAAGGAGAAGA A A G G GA A A A G GAGGGGGACAGAAAGACGACAGAAATTGACAC CAAAACACCGAAGGAGGGAAAAAAAGGGGAGAAAGAGGGGGG GCCAAGGAGAGAGAGACAAAGGACACCGAGAAGAGGAAAGCG GAGAGCCAAGGAAGGAGAAAACCAGAAAAAAAAGAGAAAAAC
 A A GAGAGAGCAAAGAGGAAAGGGAAGGGGAAGGAAGAAAAGA A G GAAAAGGGAAAGGGAGGGGAAGGGGCCGGAGGAGAGACAA A A G A G G A A A G A A C G G G G G A A A G GAGAACCGAGAAGAGA GATG G G G A A C C A A A A A A A A A G G GCGCAGAAGAAGGCAAGA GAAA GA A G G G A A G G GCCAA G GAGCAAATTGGAAGGAAGAAGGACAGGA A A A A A GAGGAAAGGGAGAACCAAAAAAAAGGCCAACG
$C \subset G A G G G G A A G A A A A C G G G G A G A G G G G A A A A G A A A A A A A A A$ GAGAAGACCGGAAAGAAGGAAGGAAGGGAGGAAACAGAAAGG
 A A A A A A A G G G G A A A A T TACCCGGAGAGAACCAAGGAAGAGAC AA $\mathrm{A} G \mathrm{G} G \mathrm{GA} A \mathrm{~A} C A A A A A C A A A A G G C A A A A A G A G G A G A A G G A A A A G$ $A A G C C A G G A T A A G G A G G G A G G A G G A A G A G G G G G A A G A G G G G G$ GAAAAGGAAGCAAAAAACAGGGAGGGGAAAGGAAGGAAGGAA $A G G G G G G G G G G G G G G A C A A A A G G C C A A A A A G A G A G A G A G A A G$ A A A A C A A G G G G A A G GCCAAAAGAAGCCGGAAAAGAAAGGGGA CA G T T A A A G G A A A A A A A A A A G G G G A A G G A A A A C A G G A A A A A $C$ CAACCAAAAAAAGAAAAGGAAGGAACCAAGGAAGGAAGEAGA A A G GACAAGGACCCAGGAGCCGATAGAAAGGGGCCAAAAGGA A GAGAAAAAGGAAGGAAAAAAAGGGGGCCGGGGGAAGGACAA
 GAACCGGGAGAGAGAAAACGGGAGGAAGGAAGAAAGGGAGAC C G GCC G A A A G G A G G G CAGGAGAAAGGAAAGAAAAGAAA GAGG G G G G G G G G G A A C C G G G A A G G G G A A GAGAGCAAA A GA G GA GAA

 G G GAGGGGGGGAACCAGGACAGGAAAGAGGAAACCGGCAAAA A A A A A A A A A A A A CAA A A A A GAAAAA $A \operatorname{A} G G G G G G G A G G G G G G G A$ $G G C A G C G A G G G C A A G G A A A C A T A A A G G A G G G A G A A C A A G A G G$ GGGAAGACCAAGAAAGGGAACGACAGGAAGGGGTTAAAAGAA AAAGGGAAAGACAAACAGAAAGAGGAAAAGGAACAGGGACAA A G A A A G G A A G G A G A GAA $A \operatorname{AGGGAAAAAGGGAGGGGAAACAGAA}$ GACGGGGGAGGAGGGAACCACAAGGGGGGGACCAAAAGAAAA A GAAC GAA $A \operatorname{A} G A G A A G G A G G A A C C A G A G A A C C C A A A A G A G G G A$
 GAAGGACAGAGAGAGAGAGCAAGAACCGGGGGAAAAGGAAAC C G GAGGGGAAAGAGACCACGGAGGAAGAAGAAAAGAAAAGGA A A A A G GACAGGAAGAGGAAGGAACCAAAAGGAGGAAGGAAGA GAAA $A \operatorname{G} G A A A A G A A G G A A A A G G G G G A A G C C G G A A A A A G G G G G G$ GAAGGGGGGAAGGCCAAAAAACCCCAAAAAAGGGGGGAAGAA A G G G G G GCCAAAAGGAAGGAACCCCGGGGGGAAGGGGAACCG G G G A A A A G GAAAA A G A A A A A A A A A G GAAAAAAAAACCGGGGGGC C C CAAAAGGCCAAGGAAAAGGAAGGAAAAAAAAAAGAAAAAA A G GCCAAG GAGCCGGGGGACCACGGAGAACCGGAGGGGAAAA A A C G G C C G G G G A A G A C A A G A G G A A GAGGAAGAAAAATCAAAG GAA A GAAGGACAAAGGGCCGGAGAGCCAGGGGGGAGAAAAAG GAGAGGGAAAAAGGGGGAAGGACAGCCGAGGAGAGAAGAAAA
 GAAGAAAGGAAAGGGGGGAGGAGAAAACCAGGAGAGGAGGGG $G G A G A G C G G A G G G A A G G G A G G A A A A G A G G A G G G G A A A G A A G G$ GGAACGGAAGAAACCGGAGAAGGAAAGGGAACCAACCAAGGG

GAAGGGGAAAAAAAGAAACGAAGGGGGAGCCGACGAACAAAA C C A G A G G C A A C G GA A G GAGAGCCCCGGCCAGGAGGCCAAGAA G G G G G G A G G G G G G A G G A A A A G G G G A A A GAA A A A G G A A G G G G A GAAGAAGGGAAGGAAAAAAGGAAAAGGGGGGAAAAAAAA GAA A G GAAA A A A G G G GAAGGCAAGAAAAGGCCAAGAAAGAAAGAA A G GAA A A A A G G GAGAAGAGCCAAGGGGGGGGGGAGAAAAGAG A A GAGGGAATTGGACCCCGACAAAAGGGGAAAAGGGGGGGGA A GAGGAACCGGGGAGAAAGAAGGAAAAGGGGAACAAGAGAGA AAAGGGCAGGGAAAGAAAAAAAGGGGGCCCAAAGGGGAAACB AAAGGGGGGCCAAAGAAGAAGAAAGAGGAAGGGGGGAAGGGA A G GAGCCACGAAGGGGGAGAAAAGGGGCCACAAAAAAGAATG GAGAAACGAAGAGAAGGAAAAGGGAGGAAAGCACCAGAAAAG G G G G C A G G G G G A A G A G A A G A A A C GAGGGGAGAAA GATG GTTA $A G G A G A G G A G G A A G G A G G G G G G G A A G G G G A A A A G A G A A A G G A$ $A C C G G G G A A C C G G G G A A G G A G A G A G G G A G A A G G A A G A G G G G G$ G GAGGGAGGAAGGGGGGAGGGGGAAAAAACCGAGGTTAACAA AACAGAAGGGGGGAAGAAACCAGGGAAAAAAGGAGAGAGGAA GAGACAACCCCAAAAGGGGAGCCCCACAAGGCGAACAGAGCG A G G G G GAACAGAGAAAAAGAGACCCGGGAAAAAAGGAGGCCC CAAAAAAAGGACCAGAGAAAAGAAGGGGGGAGAACAGAGAAC AAGAGAAGGAAGGCCGGCCAAGGACGAAAGGGGGAAGAGGAG G G GCCGAGGGGGGAAAAGGAAAAGGAAGAGGAAGAAAAAAAA GAAAGGAAAAGGGCCACAAACAAAAAAGAAGAGAAACGAAGG G G G G G G G A G A C A A $\mathcal{A} G G G G G G G G G A A A A G G G A A A G A A A G A A A G$ A A G G G A A A GCCAA G G A A A A G G GAAA A G GACCCAA G GAC G G G A A
 AAAGGGGCCAACCACCAGAAAAAAAGAACAGGAGAACAAAGAA
 AAAAACCCCCCGGGGAGGGGGGGCCAAAACCAAGBAAAAGGG G G GAAAAGGGGTTGGAGAGAAAAAAAAAAACAAAACCGAAAA
 $G C C C C A C G G A A G A A A A A A A A A A A A A A A A A C C A G A A G A G G G G G$


 G G GCAGGCCAAAAACGGCAGGGGAAGGAAACAAGAAAAGAAG GAAGGAAGACAGGGGAAAGCCGAAAAGGAGAAAACGAAAAAG GAATTAAAAGGCCGGGGAAAAGACAGGGAAGGGAAAAAACAG A A A A A A A ACAAAACCAGGGGAAACCAAAAGGGAGGAAAGGAA
 A G GCCGGGGAAAAGGAAGGCACCGAGAAGAACCGAGGAAAAC C C CAACCGGAAAAAAGAAGCAGAAAGGAACCAACCCCAAAAC GAACCCCGGGAAGGACCGGAAAAGGGAGGGAAGGAAGGGGGG G G G A A A G A G A G G G G G G G G G A G G G A A G G A A C C A A A A G G G A A G A
 A A A G G GAA $A \operatorname{A} A G G G G G A A G A G A C G A A G G A A A A G G C C A G A G G G G$ G G G G GAGGACGGGGGAGACAGGGAGAGAGAAAACCCCBAABA $A C C A A C A A A A A A A G G G G A A A A G A C C C A A A G G G G G A A G A A A C A$ GAAGGAAAAGGCCAAGGGGAAAAAGCCAAGAGGCCCCGGGGG GAAGGCCAGGGAGGAAGGGCCAAAAAAGGCAGAAACAAAAAG
 G GAAC GAA A G G A A A A A A A A G GAA GAGAGAAGGGGGAAA G GAA G G G G G A C A A A A A C G A A A G G A A A G G G A A G G G GA G G G G G G G G G G AAGAGCCAAGGAACCAACCCCAAAAAGCCGGCCAAGAAAGGG GAAGGGGCCGGGGAGCCGGAACCGGGGAAAGACGATTGGGAC CAGGGAGAAACGGGAAGGGGAGGCAAGCCACCCCAAGAGACC CACAGCCAAAAAGCCGGAAAGGGGGAAAACAGGAGAAAGGGA A A A G A G G A G A A G G A A G G G G A A C C G A A A G G GA G G A A A A G G G G G GAAGGGGCCAAGAAGAGAGAGGAAGAAAGGGAAAAAGAAGGG

G G GAACCGGGGCCAACCAAGGGGTAAAGAAGAGGAGGAAGGG GAAGGGAGGACGGACCAGGGGAGAGGGAGAAAAGGAGAAAAA A A ACAAAAAGAAAGGAATTGGGGGAGCGGAAGGGGGAAGCAG G GAAAGAGGGGAAAAAAGGAGGAAAAGGGAGTTGGGGAACAA A GAAGCCAAAAAACCGAGAGGAAGAGAAAGGACAGAAACAGA C GAGACAAAAAGGGGAAGAGGAAAAGGAAAAGGAA GGGGCCT T G G G G A A G GCC G G A A A C A G A G G G G G A A C A G A A G GA G G A A G G G AGGAGGGGGAAAAAAAAATAAAAAAGGCCGGGAGGAACAGGA $A C C A A A A G G T T A A A A G G A A G G A A A A A A G G A A G A C C A G G G A G G$ A GAGGGGAAAAAAAAAAAAGGAAAAGGGGGAGGGGGGAAAAC A G G G GCCAAAAAAGGAAGGGGGGAAAGTTAGCCGGAAGGGGA A G G G A C C A C G G C C G GAA $A \operatorname{GAAAGGAAGGGGGGAGCCGGAGGBA}$ G G G A A A G A C A A G GCCAAGAAAGGAGGGAACCAGGAAAGAAAA A A A G G G A G G A A A A A $\mathcal{A} G G G G A A A A G G A G G G G A A A G G A G G A A A G$ A A G A A A G G G G G G G A G A GCC $C$ G G G G G G G G A A A $\mathcal{A} C A G G G A$
 GAAAACCAGGGGGAGACGGGAAAAGGGAGCCGGAAAAAAA GA GAAAAAAGATTAAGAGAGAAGAGAGAGGAGGCCAAAAAAGBA $A G G C C G G G A C A G G G G A C A A A T G G G A A C A A G G A G A A A G A G A G G$ GAAA A A A G GAAAAGGACAAGACAGAAAAGAGGGAGGAAAAAG AAAGGAGGGCCAAGAAGAGGGAGGAGGGGAAGGAGGGGAACC AAGGCCAGGGGAGACGGAAGAACAAAAAAAGGAGGAAGGGAG GAGGGGGACGAGAGCGAAAAACCAAAAAAAAAAGGAAGAAAA
 $G C C A A C G A A G G G G A A G G A A A G A A G G A A C G G G A A G G A A C C G G A$ A G GAA A G G GCACCGACCAGAAGAGGGGAGGAAAGAAAAGGGA AAAAGAAAGCCGGGACCGAAGAAGGGGACGAAAAGGAAAAAG GAAGGGAAAGGAAGGGGAAGGGGGGAGGAGAAGAAGAAAAAA GA $A$ T T G G G G G A A G G G G G G G A A A A A A A G A A C C A A G G G G G G G G G GAAGGAAAAAAAAGGGAAAAGGGCAAAGGAAAGAAAAAAAAG GC G A A G G G A G G A A G G G G G G G A A A G G G G G G G G A A G G G G G G A G A AGGAGGAAAGAAGAGGAAGGGGGCAAGCCAGAAGGAGAAAAG G G GAA A G G G GACAGGTTGACGCAGGGAAAAAAAGGAAGAAAA
 G G G G G G G G G G G G G A G G G A A A G G G A A G A A A A A C C A A G G G A A G G G G G T A A A G G A A A A G GAGCC G G A A G G G A G G A A G A A A G G G G G G A A GAGGACGGGAGGGAGGGAAAGAAGGAACAAGGGACCCAGAA $C \subset C G G A A A G A G G G A A G G G G G G A G A G G G A G A G G G G G G G G G A G G$ A G G A A C C G G A G G G G G G A G G T A A A G G G A G GAACCGGGAAAAAA
 A G G G GAAGCGGCCAAAAGGAAGGAAGGCAGAAAAGAGAAGGA G G G A A A G G G G G A G G GAACC $\mathcal{A} G G G G G C C G G G G A A A A G A C A A C A$ AAAGAGGCCCCGGAAGGATAAACGGAAAAAGAGAAGAAGCAA AAACCGGAAAAGGGGCCAAAAGGAAGGGGAAGAAAGGGAAAA GAAAAAGCCAAGAAGGGAGAAAAGGAAAACCGGGGAAAAAAG G G G A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{~A} A \mathrm{G} G \mathrm{C} C A C A A A A A A A A A A A G C A A A C C T$ T GCAG GAACACACGGAGAGCAGGCAGGGGAAAAGGGGAACCC CAGGGAAGGAAAGGAGAGGGAGAAACAAACCAAAAGAAATAA GCACCGGCCGGGGGGGGAAGGCCAAAAGGAAGGAAGGGAAAA A G G A A A A A A G G G G A A A A A A C C G GCCGGAAGGCCAAGGCCGAA AAACCGGAAAAAAGGAAAGAGGGGGGGAAAGAAGAAACAGAA AAAAAGGGACCCCGGCCAGATGAGGAAGAGACCGGAAAACAG $A G A G G C C G G G G G C G G A A A A A G G A G G G G A A G A G G A G A G A G G G A$ G GAAAGGAGACGAACGGCCGAAGGGGGGAAGAGAAAGATGGA C G GA G A A G GAATTACAAACAAGGAAAAGGAAAGAAGGGGGGG G G GCCGGGGCCAAAGAAGAACAAAGGGGGCCGAGGAAAGGAA GAAAGGAAAAAAGCCGGGGGGGGGGAAAAAACCAAGACAAGC
 G G G G GCCGGAAGGGGAAAAAGAAGGGGAAGACCGAGGGAGAA

A GAGGGGCACAGGGGAAAAGGGGAGCCAAAGGAGAAAGGCCG G GCGGGGGGCCAGAAGGGGCCGACAGGAAAAACACAAAAGCA A A A A A A A G A GA G G A A A A A A G GAACCGGGGGGAA GAGGGAAAC
 GAAGGGGAAAAGGCCAAAGGGTAACGGACAAGAAAAGAGAAA
 A A GCCAAAAAAGGAAGGGGGGAAGGCCGGGGGAGAGGCAAAA AAACCGGGGCAAGGGAAAACAGAGAGGAAAAGGAAATAGGGG GCCAATTGGAAACGAAAGGGGAAGGGGGGAAGGCAAGAGAAG GAAGGAAGGAAAACCGGGGAAAAGGGAAAGGAAGGGGAAGBC CAAAAAAGGAAGGAGGAGAAGGGGAAAGGACAAGGAGACAAA A A A A A A G G G G G G G A GAC $\mathcal{A} A C A G G C A C C G G G A C G A A G A G G G G A$ A G G G G G G G G A A A A A A G G G G A A A A A A C CAA G GAA A G GAAAC C C CAAAAAAAAAAGGGGAAAACCGGAAAAAAGGAAGGAACACCG A GAGAAAGGAAGGGGGAAAAACCAAGGGGGAAAAGACAAGGA GAGCGCCAGGCGCACGAACAGCCGGCGGGAGAAACCCAAGGG
 A GACCAGAAAACAGAAAAAAAAAGAGGGGCCGGGGACCCCCG A G G G G A A T A G G G G G GAAAAA $A$ A $A \operatorname{AGGGAAGGATCCGGAGACCGG}$ A G G G A A G G G G G A A G A A A G G G G A A A G G A G A A A G G A A G G A G A G A GAACAGGGGGAGGGGCCAAGGGGAAAAAAAAAAGGGGGGGGG G G G A A A A A A G G A A C C G A G G A A G G G G G GC C GAGACC G G GAAA A G A A A A A A A A A A A A A A A A A A G GAACCCCAAGGAAGAAGGAAAA A A G A A A G G A G G GAAAAAAGGGAGAACCCGCGGACAGCCGGGAG GAAGGAGAAGAAAGAAAAGAGAGAAAGAAAGAGGGAAAAAAG
 GAAGGAGCCTTAGGAAGCAAGAAAAAAAAAACCGGAGAAAAG GAAAAGGGGAAGGAAGAGGAAGAAAGGCCGAAGGACAAGGAA C GAGGGGACAAGGAGGGAAAACCGGCCGGGGAGAAAAAAAAC C C C G GAGAGAGGAGGAGAAAGGGGGCCCCAAGGAGCCGAAAG AGGCCCACCAGGAAAGAAGAGAAGACAAAAAAACCAAAAAAG GAGGGAAAAGAGGAGGGGGAAGAGGAGGGAGCCAAGAACAAG A A A G G GAGAGGCCGAGGAAGGAAAAAAAAGGGGGGCCABAGAA GAAGGGAAAAAGGGGAGGAGCGGGGAAGGGGCCAAAAGAGAG GAGCCAAGAAACCGGAGGAGAAGAAAAGAAGAAAACCAAGGG GAACCGGGGGGAAAAGGAGGAGGAAAAAACACAAGAACAAAA A A A G G G G G GCCGGGGCCAGAATTGGCCGGAAAAAAAAGGGGA ACCA $C A A G G G G G G G G G G G G G G G G A A G G G G G G G G C C A A G G A G C$ CAAAAACAAGAGAACAAGGGGGAAGCAGGAAGGCCCCAAGAA A A A A A G G A A A G G G A A G GAAACA A A A A GATGAA GAC G G G G G G C C GAGAAAGGAAAAGGAAGGGGGGAAAAAAGGGGAAGAAACAC G GACCGGAACCGGTTTTGGAAACAAGAAATTCCCCAAGAAAC AAACCGGAAAAAAAAAGACAAAAAAAGAGCCAAAAG GAAGGA
 GAAAAGGCCACCCGGAAAGAAGGGACCCAAAGGAACCGGGGA A A A A G GAA $A \operatorname{GG} \operatorname{GA} A A A A A A A C A C A G A G G G G G A G A G A G G G A A G A$ GAGGAAAAAGGGGGACCCCAAAAGAGAACAAACCCAGAAGGA G G GAGGCGGGGAGCAGGAACCCCAGGGAGCCAGCAGACCAGA
 A ACGGCCGAAACCAGGAGAGGAAGGGGAGCCAGGAGGCAAAG G G G G A A A A A A G A A A A A A A A A A A G G GAA G GAGAAAA G GAA G G G G G G G A T T G GAACC G G G GAAAAAGGGGGGCCGGCCAAAAGAGGG A A A A A A A A A A T G G ACAGACGGGAGAGAAAA GA GAA GGGGCC G GAAAAGGGAGGCAAAAACCGGAAGGAAAAGGGGGGAGAGAGG
 A G G G G G C A A C C G A G G A A A G GAA A G G A A G G G G G G A G A G A A G G A GATGAGGAAGGAAGGAAAGGGAGAAAACAGGGGGACCGAAGA A A A A A GACCCCGGCCGGAGAAAAAGGGGGAGGACCAGAAAAA $G G A A A G G G G G G G G A A G G A G A G G G A G A G G G A G G G A A C C A G A A G$

G G GCCCCAGGGGAGAACGGCCGAAAAACCGGGGGGGAGAAGC G GAGAAGGAGAGGGGAGAGAAACGGAGGAGAAAAAAGAAAGG G G GAA A A A A GAGGGAAAAAAAAAAAGGAGGGAAAAAAAAAGAG G G G G GACGAAAAGGGAAGAGAAAGGGGGACCGGAAAGCAAAG G G GAAAAAAAACCGGAAGGGGGGGGCCGAAACCGGAAAAAAG A G G G G A G A A G G G A A A $\mathcal{A} G G G G G A A A A G G A A G G G G G A A A G A G B C$ C T TA T G A A A A G A A G A A G A A A G G G A A G G G G G G G G G G G A C C A A A GGGAAGGACGCGACCGACGCCAGAGGGAAAGAAGGGAACAGAG ACAAAGAGGAAGGAGCAACAGAAGGGGAGGGGAGGAAAGAAA GAAAAACGGAAAAGGAAGGAAAACACAAGAGAGCAAGGGGGG G G GAGCCAAAAGAAAAAAAGGAAAGGAAGAAAGGGACAGGGG A GAGAAAAAGAGGGGAAGGAAGGGAGGAAGGAAAAGAACAAG G G G G A C C G A G G G G G GC C A G G GCC G G A G G A G GA A G G G G G G G G A A A A A A A A G A A G G G A G G G G G C G G G G G A G G A A A G G A GAAAAAA $A$ $C G G G G G G A A A A G G G G A A G G A A A A G G A A C C C C C C G G A A$
AACCGGAAAAAAGGAAAACCGGGGGGAAAAAAGGGGGGCCG GAAGGAAGGCCGGGGGGGGAAAAGGAAAAGGCCGGGGAAAAA A A A A A A A A A G G G G G G G G A A G G G G A A G GAAAAGGG GAAAACAA AGGAAAACCAAGGAAGGCCAAAAGGGGGGCCGGAAAAAACAA $A C C A A A A G G A A G G G G G G C C A A A A G G G G A A C C G G A A G G C A A A C$ $C G G A A G G G G A A C C G G G G A A G G A A G G C C A A G G A A A A C C G G G G A$ A G G T T G G G G G G G G G G G G C C T T A A G G A A A A A A G G A A G G A A G G G G G A A A A A A A A A A A ACCAACCGGAAGGCAAAAA GAGGGGGGG GAAAAAAGGAAAATTAAGGAAAAAAAAAAAAAAGGGGGAAAG $G C C A A A A A A T T G G C G G A A G G A A G G A A A A A A G G G G G G G A A A A$ A G G G G G GAAAAGGGGGGAAGGCCAAAAAAAAGGAAGAAACAA AAAAAGGGGGGAAGGAAAAGGAAAAGGGGGGGGAAAAAAAAG G G GAACCCCAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAA A G GAAAAGGAACCGGGGAAAAAAGGGGAAGGGGAACCABAAAA A G G A A A A A A T TAAAAAAGGAAGGGGAAGGAAGAGGAGCAGAG G G A A A G G G G G G A A G GCACCCCAAAAAAAAGGAGAAGGGAGAA GAACCGAAGAAGGGAGGGAAGGGAGAAAAAAGAACAAAAAGA GAAGGGAAAAAGAAGAAGGAAAAGGGGGGCAAAGGAAAAAAC C GAGGGGGGAACAAAAAGGAGGAAAAGGCGAAGAAAAGAACC CAAGACAGAAGGAGGCCAAGGACGGAAGAAAAGGAGGGCGGA C G GAACCCCAAAAGGAGGGAAGAGGGGAAGGAAAAAAGGGGG G G G G GA G GAAAAAGGGAAAACCCGGAGGGGGGGGGAAGGGGA ATTGGAAAAGGCCGGAAAAGGGGAAAAGGGGGGGGAAAAAAG $G C C A A A A G G A A G G G G G G C C G G G G G G C C A A A A G G G G G G G G G G G$ G G GCCAAGGGGAACCAAGGGGAAAAAAAAGGGGGGGAAACCG $G G G A A A A A A G G G G A A G G A A A A G G A A A A A A A A A A A A A A A A G G A$ A A A G G A A G G G G A A A A A A $\mathcal{A} G G G G G G G G G C C A A A A G G G G C C G G A$ A G GAAGGAAAACCAAAAAAGGCAAGAAAAAAAAGGAGGGGGA GAAGGCACCAGCAGGAGAAAACCGGAAAAAAGGAAAGAACCG A G GAA ACGGGAGGGGAAAAAAAGAAACCCGAAAGGAGGATAC C G GACAGCCGGAGAGGGAAGAGGCCAAGGGAAACCGACAGAC C C CA $\operatorname{CGG} \mathrm{G} C \mathrm{C} A A G G A G G G G G G G C C A G A G G G A G G A A G G A A A A A G$ G GAAGGGGGAAGGCCAAGGAGAGGGGGGGAAGAGAACGGTTA
 G G GAAAGCCAGGAAGAAGGGGAAGAAACAGGCAGAGGCAGAA GACGGACAGGAAAGGGGAGGGGGAGAAGGAAGGAGAGAGAAC C G G G GAA $\operatorname{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A C \subset A G G A A C C G C G A A G A A G G G A A G G A A G C$ ACCGGAAAGAGAGGAGGGGAGCAAGAGGAAAAGCCGGAAAGG $G C C A G A G A A A G A G A G A G A C A G A A G A G G G G C C G G A G G G A A G G G$ AAAGGGAGAGGGGGGAAAGGGGAAGAGAGAGAGAAGAAAAAA A A GAA A GCCCCCCGGGGACAAAGGGGAAGAGAAGGGGAAGGG G GAACGACAACAAAGAAAGAGCCGGGAGGAAGGGGAAGAGAG G G G G A A G C C A A GA GAGATA G G G G CACACAAAGGAGGGC C GA A G G GAA A A A GAAGGAAGGAAGAGGAGGGGAGGAGGGCAAAGAA

C G G A A G G A A A A G G G G A G G G G G G C A G G G G G A GA G G G G G A A G $\mathcal{A} A$ $A G A G G G G A A G A C A G G A G A A A G G G A A G G A A G A G G G G A A G A G G G$
 $C \subset C G G A A G G A G A G A C G A C C G G A A G G A A G G T T G G G G G G A G G G A$ A GAGGAAAACCGGAGACGGGGAAAAAACCAACAGGGGAACGC CAAAAGGAAGGGGAAAAGGAAAAGGGGAAGGGGGGAGAAAA G A GCGGGGCCGAGGCGGGAAAAAAAACCGGAGGGAAGGGGGGG G G G G GAGAAGAACGACAGGAACCGGGGGAATGAGGACGAAGA AAAGGCCAACCGAGGAAAACCGGGGAAAAGGAAAAGGGAAAA GCCGGGACCAAAGAGAGAAGAGAAAGGGAAAGAGAGGCCCCC C G GACAAAGCAGGAAAAGAAGGGAGCCAACCGAAAGAGGGAG G G A G C A G A A A G CAA A A G G G G GCCAAGGAAAGACA GAACAA G G G G G A A G G A G G G G G G G C C G G A A G G G G A C A A A GAC G GA G G G C C G GA $\operatorname{G} G A C A G G G G G G A G G G G G A A A G A G A G A A C C A G A A G G A C G G A$ G GCGAAAACGAGGAAAACACCAGGGAGAACCAACAGGGAGGG GAGGAAGAAGGAAGGCAGGAGAGAGGGGAAAAAGGCCGGGGG
 GAAAACAGGCACAAAAAAACCGGCCAGGGGGGAGAAAAGAGG GAAGGGATAAGGAGAGGGGGAGGAGGAAAGGAAGGAGACAAA A G G A G G G G GAGAAAAACCAAGGCCGGAAGGGGGGAAAAGAAAA A A A A A G G G G G GAA $A \operatorname{AGAAGGAAAAAAAAAAGGGGGGGGGGAAG}$ GAAAAAAGGGGGGAAAAAAAAAAGGGGAAAAGGAAAAGGGGG G G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A G G G GAAAA A G G G G G G G A A A A A A G G G G G G G G G GCCCCCC GAAGGAGGGGGAACA AAAGGGGAAAAAAAAAAAGAAAAAGAAAAAGGAGAGAAAG GA A GAA A GAGGAGAGAAAAGGAAAACCGAAACAAAGAAAGGGGA CAAAAAAAAGGGACAAGGGGGGGAAGAAGAAAGGAGGAGAAA CA $A$ A A CACAA $A \operatorname{A} A G G G A G A A G A A A G G G G G G A G A G A G G A C A A A A$
 GAGAAAGGGAAGGGGAAGAAGGAGAGACCGAAAGA GAGGGGG GAGGGCCAAGAGAAGAGAAAAAGGAAGGGGGAGAGACCAAGA AAGAGGAGGACAGGGAAAAGGAAAAGGGGAAAGACGGGGCAA GAGGAAGAAGGGGCCAGGAGGAGAAGAGAAAGGGGGGAACAA A A A A ACCGGAAACAGACAGACGGGAAACAGAGAGAAAA GAAG GCCGAGGAGCAAACCCCAAGGAAGGGGAAAAAACCBAAAGGG GAAGGAAAAAAGGGGGGGGGGAACCGGGGGGAACCACGGGGG GAACCGGAGAAAGAAGAGAGGACAAAACAGGAAAGAGGAAAA G GAA A G GAGGGAGAGGAGGGGAGGGGAGGCAAAGGGAAGAAC
 A A A A A A A G GAGATAGGGAAGGAAAAAAAGAGAAGBAAAAGCC CAAAAGGAGAGGACAGAGGGGAGAAAAAAAAAAAAAAAAGGA GAGGGAAGGGGGGGAAGAAAAAACCGGGGGGGGAAGGAAGGG GAAAAGGGGGGGGAGGGAAAAAAAAAAAAAAAGAAAAAGGGA
 A A A A A A A G A A A G G G A G G A A G G A A A G G G A G G G A G G A G G G G G G G GAAAAAAAAGGAAGACCAAGGGGGGAAAGAACCAAACBAGGG GAGAGAGCAGGAGCCAGAGGAGAAGAAGAGGGGAAGAACBAA G GACCGGGGGGGGCCGGAAGAAAAGAAAACCGGAACCACAGG ACCAAGGAAAAGGAAGGTTAGAAGGAGAGAAGAGGAAAAGAA A G G A G A G G GCA $\mathcal{A} G G G A A A A G G C C G G A A G G A A A A A A G G G G G G A$ G G G A A A A G G G G A G G A G G A A GAA A A G GAAGGAAGAAAA GAA G G GAACCCCCCGAACAGGGGAAAAGGGCCCAATGGGGGAGAAAA A A A G G G A A G G G A A A A C C G G G G A G A A A A G G G G G G A G G G A G G G C CAACAAGACGAAGGAGAGGGAGGAAGGAACCAAGGAAAAGGA A GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A A A G G G A G A C A A A C C A C A C C C A A A C A A A A G G G$ G G G G A A A A G A A G G G G A A G G G G A A G G G A G G G G T T C C G GAAA $A$ C CAAGGGGAACCCCGGGGGGAAAAGGGGAGTTAGGAAAAAAAG A A G G G A CAC G G G G A A G G A A A A G GAA A G C C G A G G G G A A G G G G A GAGAGCCGCGGAAGGCCAAAAAAAAGGAAGGAAGAGGCCGGG

GAAGGAAAGGAGAGGCAAAGAAGAGGGAAAGAAGGAAGAAAA
 A A A G GCA $\mathcal{A} G G G G G A A A A G G G G G G A A G A A A G G A A A C A A G G G G G$ GAAAAGGGAGGAAGGAAAAAAGAGGGGAAGCGGGAAGAAAAG G G GCAAAGGAAAAAAAAGGGGAAAGAACAACGGGGAGGGGGG G A A A A G G A A G G G G A A A A G G G G A A A A G G A A G G G G G G C C G G A A A G G G G A G G G G A A G G A A G G G G A A G G A G G G A G A A C C G A A A G A G G G GAGAGGGGGGAAAAGGGGAGAGATAGATAAGGGAGCCAAGAG
 GACGGAAGGAAGGGAAAGGAGCCCAGAGGCCACAACCAACAA
 A GAACACAGCCGAGACAAAAAAAGGCCGGAAAAAAAAAAAAA A G GA $\operatorname{G} A A C A A A G G A G G G G G A A A A G G G A G A A C G A A G A G B A A C A$ G G G A A A G A A G G G GAAAAGGGGAAACAAAAATCAAGGGAGCAA A GGAGCCAGGGAAAGGAGGCCAGGGCAGGGGAAAGAA
CAAAAAGGAAGGCCCCGGGAACAAAGAGAGGAAAGGGGGAG GAGCCAGACAACCAGGGCCCCCCAGAAAGAAAGAGAACAAAA $A G G G A G G A G G A G A G A A G G G C C G G T T A G G G A A A G A G G G G A A C A$ GAGGGATAGAAAAGAGGAGCAAAAACCAGAAGGGGGGAAAAA
 GAGAGCCGGGGAAAAAAAATTGGAGAGCCGGCCGGCAAGGGG GAAAACCAAAAAAAAAAAAGGGGAGAAGGAGGGGAAGAAGAG A A A G G G G G A A A G G G G G G G G G G G G A G A G G A A A A A G G A C A A A G G GAAGAAAGGAAGGAGAGGAAGAGAGACGGGGAAGGCAAAGAG A A A G A GAACAGAAGAGGAGAAAAGGAAGGGAAAACAAAAAAA G G GAACCGGAGCAGGGGAAGAGGAGGAAAGGGACAAGAAGGG G GA GAAAGAAGAAGAGAATAAGGAGGGGGGGAAAAGAGAGAG GTTACGGAAGAGGAACCGGCAACGGAGGACAGAAGGAAACCA GAAGGGAGGAAAGGAAGAAAAGGCCAGAAGGCAGAAAGAACA GAAGGAAGGAAAATAGAGGGAGGGAGGAGGAGAAAAAAATTC GAAAGCCAAAGAGAGGGCCAGAAAAAAAAGGTTGGGGGAAGG AGGCCGGGGCCGGGGGGGGAAAAGGGGGGAAGGCCAAGAAAA ACCGGGGGGAAAAGGGGAAGGAAAAGGGGAAAAGGGGGAAAT TGGAACCGAAACCAAGAGAGGGGGGAAAGACCCGGAGGAGAA A A A A A G G A A A GAGAAGGCCGGAAGGGGGACGGGCCAAGGCCG GCCCCGGGGGGGAAGGGAAGACCGGGGGAAGGGGGGAACCCG G GAGACAAAGGAGAAAACCAAGCTACCAAAAGAGGGGCAAAA G GAGGGGAAAGGGCCAACCAGAAAAAGCCACCAGGGGGAAAC CAGGGGAGGAGGGACGGCCACAAGAACAGAAGGCCCAAAAAG GAAGGAGGGAGGGAAAACCAAAGAAAAAAAAAAAAAAAACAA A G G GAGAAGGGCCACAGGGCCCAAAGGAAGGGGGGAACAAAC C G G A A G G G G G G G G G GAA $A \operatorname{GG} A A A A C C A A G G G G G G G G A G A A G A A$ AGAGAAAAAAAAGAGGGAAGAAACCGAAGGAGAAAAACAGGT ACAGGAACCGGAAGGAAGGGACGCAGAGGGAGAAAAAAAAAA A A A G G GACAATCAAGGAAAGAAAAAAGGAGGAAGAAAAAGGG GAAAAAGGGGAAAAGGGAAGAAAAACCGGCCAAACACAAABG GAAGAAGGGAAATGAAGAAAAAAGGGGACAAAGGGGGAGCAA CAA GAAAAAAACCAAAAAAAGAGAAGAGGAAAACCAAGGGGG A GAGAAGCCAAGGAAACGAAACCCCAAGGAAAAGGGGGAAAA A G G G G G A A GAA A A GAAAGGCACCAAAAAAACGAGGGGAGGGG GCCGGGGAGCAGGAGAAGAAGGAGAAGAAAACCAAACAAGAG G G GAAGGCCAGAAAGAGGCGGAGAAAAGAAGGAGAAGAACAG GAATTCCGGACGAGGAGAGGAGGCCGGGGAAGAGGAACAAGG AGGAGAAAAGGAGAGAGAAGAGAGGAAGGCCCCAAGGGAAAA A G G G G G G A A C C A A A A G A TAAAAAGAGACCGGCCCAAAGAGAA A GAGACAGAAGAAAGGACACCGGAGAGAAAGAGAGAAAAAAG $A G G A G G G C C A A G G A G A A G G G G G G G A G G G G A A A A C C A A G A A G A$ A GAGAAAACGGCAAGGGAGCCGGAAGAAAAAGAAGAAAGGGA A GAGAGGGGACGGGGAGAAAAAGAAAACCAAGGGGAAAAGGG

A G G G G G G G GAA $A G G A G A A A A G A A G G A A G G C C A C A A G A A A A G G$ A G GCACCGGAGCCGGAAAAGAGAAAGAAAAAAACCGACGCAG G G GAA A A G G GAGGGGGGCCGGCCGAAAGGAAAAAAAAAGAAG AAAAACCGGGGTTGGGGAAGGCCGGGGAAGGCCAAAAGAAAA A G G G G A A G GCCAAGGGGAGAACCCCGGCCGGAAAAGGAAGGA A A A A A A A A A A A A A G GCCAAAAAAAAGGGGCCAACCAAGGGGC C G G G G G G G G G G A A A A A A A A A A G G G G C CAAAAAAAAACAAAAA G GAAGGGGAAGGAAAAGGGGGGAAGGAACCAAGGAACCGGGGG GCCGGAAGGAAGGGGCCGGGCAGAAAAGAAAAAGGGGAGGAA GAGGAAGAAGAAGGGGGAACCCCGGAACCAAGGACAAGAAAA A A A G GACGGATGAAAAGAAAACCACAACCGGAAGGAACCGGA G G G A A A A G A A G A G A C A G G G G G G G G G G G A A A G G G A A A GAA A G G G G G A A A A G G G G A A C GAA $A \operatorname{ACC} C G G A A G G A A A A G G G G A A A A C A A$
 GAAA A G G G A A A G G G GAAAAAAGGGGAAAAGGAA G GA GAGAAAA G GAGACAGGAAAGGAAGACGCGGGGAAGGCCAAAAAAGAGGG GAA $A$ G $A$ A A A GAGAGGCCAAAGCCGGGAGGAAGGCCAAAGCAC
 G G G GAGGAAGGCCAAAAAACAAAGAGGAAAGAGCAGAACGAA C A A A A G G G G A A A A G G G G A A G G TA $A$ A A C C G G G G G G G A C C A A G G G GCAGGGAGAGAAACACAGGAGAGACGCACGGAAAAGAAAGBA GAAAAAGAGGGGGGAGGGGAAAGGGGAAAAAAGCAGAAGGAA
 A CAG G A A A A A A G G G A A GAGGGAGAGCCAGAAAGGGGGCAAAC C G G GACCAAAAGGGGAGGGGGAGAAAACCGCAACAGAGAACG GAGAGAAAGGACAAAGGAAGGAAAAGGGGAACCAAAGGGGGA A G GAA A GCCGACCACGGAGGGGGGGGGAAGGGGAAGGGAAAC CAAAGAGAGAACCAAGGGAGAAACAAAGAGAGAAAAGGAGAA A GAGAGACAAACCGGCACAGGGGAAGGAGGGAAGAAGCAAAA C G G GAAGGAAAAACAAAAACAAAAAGAAGAAACGAGAAAAGAC $G G A G G A A G G G G C C G G A A G G G G G G G G A A G G G G G G G G A A G A A A G$ AGACACCGGGCAGGAGGCAGGAGCCGGATAAAAAAGGCAGAA G GAA A G GCCAACGGGCAGGGGAAAGAAAAGGGGGGAAAAAAC C G A A A A A A A C CAA G GAC GAGGAAAGAAAAGGAACCAGGGGGG G G G G G G G A A G G A A A C C C G G G G C C A A G G G G G G G G C C G G A A A G G A G G A A A A A G A C A G G A A GAC GAGGGGGGAAAAGGGGAAAAAAA AAAAAAAGGAAAGCAACGGAGAGGGCCCCAGGAGAAAGAGAA A GAGGGGAAAGGGAAAGGGAAAAAAAAGGAAGGGGCAAAAAA A GAGGGGCCAACCAGCAGGAAGGAAGGGGGGAAGGGGGAAGA
 CACAAAGAGGGAGCCGGAAAGGAAACGAACCGGGAAGCCGGG GCAAACAAAACCAGAAAGAAGGGCCGGGAGGCCCCCCCAABA AAAGAGGAACCAGGAAGGGGAAAAAAGAAGGAAACGGAGGGA A A A A A A A A A A GAGGGCAAAGACCCCAGGAGAGGACGGAAAAC CAAGAATAAAACCAGAAAAAAGAAAGGAAGGCCGGGGAATAA A A A G G G G G GCAA $\mathcal{A} A \mathrm{~A}$ GAACCGGAACCAAGAAGGAAAGGGGGGA G G G G G G G G A A A GAGGCCGGGGCCCCAGGAAGCAGAGAAGGGC

 A G G G GCC G G G G A A G GCCGGAAAGAGAAAAGGATMGAGGGGGC A A A A A G G A A A A A A G G G G G G A A G A A GAGGGCCCCCAGGAAGAG AAAAATACCGAAACCGGGGGGAGGGAAAGACAGGGGAAACCB GAACCCCCCGGAAAAAAACAGAAAAAAGGGAGGGGGAAGAAG G G GAAGGACAACCAAGAGGGAGGAAAAGAAACAAAAACAABA CAGAAGGGAGAAGGGCCAGGGAAAACAGGGAAGGGGGGAAGC C G G G A G G A A G G G G G G A G G G G A A A A A G G A A G GAA A C G G G G G G A A A C A A A G A G T A C A G GAGGGCC G G A A G G G G C C A G C C G G A G G G G GAAGGGGGGAAACAGGGAGGGGGAGGGAAGAAAGATTGAACB GAAAGAAGGGAGGAAGGAAAGAGAGAAAAAAAGAAAAGGCCG

A A A G A A G G G G G G G G G G A A G A G G G C C A A CAAACGGGGGACA GA
 AA $A A C A G G G G G C C A G A G A G A A A A G A G G A A A A A A G G G G G G A G A$ $A C C G G A A A A G G A A C A A G G G A A G G G G A A C C A A G G A A A A G G G G A$ A G GAA A A G GAGGGAGAGGAGAAGGGAGAACAGGAAGGGAGAA GAA A A GAGAGAGGGGGGGAGGAAAAAAGGAGGGGGAGAAACA A A GAAGGGAACCCGAAGCCAGAGAAGGAAAGAAAAAAG GTXA GAAGGAAGGAGACAGAGGGACAGGAAAGGAAAAGGAGGAAAG GAAAAAACCACGGGGGGAGAAAACCCAAAGGGAAGAAAGGBA AGGGGGGAAGGAACCAAAAAAAAACCCAAGAAACCAGCCGGA AAAGGGGAAAAGGAACCGAGGGGGGAGACAAAGAAGGAAGGG G G G G G G G A A A A A A A GACAGGGAGACGGAAACAAAGAAAGAGG GACAGGGGGAAGGACGGGGGGAGGAAAAAAAAGAGGGCACAA


$A G C \subset A A G G A G G A A G A C A A G A A A G G A A A G A A A A C C C C A A C C G$ A GCAAACAAGGGGAAAAAACCGGGGGGAAAAAAGAGAGGAGC A A G G A A G A A GACC G G G GAACCAAGGAACAGGAAAAGACAGAA $G C C G A G G A A G G C C G A C C C A G G G A G G G A G A G A A A A A G G A A A A A$ A G G A A A A A A C A GAA $A$ A $A G \operatorname{GAAGAAAAGGGGACCAAGAAGAAAA}$ AAAAATACAGGGACCAGGAAAGGCCGGAAACAAAGGGAAGGA A G GAGGAGGAAGGAAGGGAAAAAAAAAAAGACCGGAAAAGAG GAAAGACGAGAAAAGGAGAGAGGAAAAAAAGGGAGAAGAAAA
 A G G G G A G G GAGGAGGAAGGGGCCGGGGGGAAAACCAACAGGC ATAA $\operatorname{T} A A A \operatorname{A} A G G G G G A G C A A A A A G G G G C C G A A A G G A A C A A A A$ GAAGGAGGGAAGAGGAGGAGGAAAAAAAAAACCGGAACAAAA $A C C A A A A A A A A G G G G G G A A A A G G A A A A G G G G A G G G A A A G A G G$
 AAAGGAAGAGGGGGGAACCGGGGAGGGGGAAGGCCGGAAAAA A A A A A A A G GA G A A G GAGGGAAAGGAGACAGGGGGAGAAGGAA AGGAAGACCAACCCCAAGGGGGGAAAAGGGGAAAAGGGGAAA A A A G G A A A G G G A G G A G G A A A G GAA A GAGAACAACC G G G G GAA $G C C G G A A A A G G A A A A G G G G A A A A G A A G G G C A G A G C A A A G G G G$ $A G A A G G G G A G G G G G G G A C C A A G G G G G G A G G G G A G G A G G A A G G$ GAGAAAAAGACAAGAGGAGGGCCAGGGAGAGAAGGAAAAAAC CAACCGGAGGGAGAGAGGAGGCAGGAGGGCCAGAGAAGAAAA
 A G G G G G G G G G G G G G G A A A A C C C C A A G GAA $A \operatorname{AGGGCC} G G A A G G G$ G G G G GCCCCAAAAAAGGAACAGGACAAGGGGGGGAAAGGGGG GACAAGGAGGGAACCGGAAAACCGAGGCCAAAACAGGGGTTG G G G GAA A ACGGGGCCCCGGAAAAAACCAAGGAAAAAAAGGGG G G GACAAGAAAGGGGGGGGAAGGAAAACCGAGAAAGAAAGGG GAAAAGGCCAAAAGGAAAAGGAGAGAACCGGAAACBAAGAGG G G G G A G G A C G A A G G G G G G G A A G G A GAACC GAGGGGGAA GAA A G G G A A C C A C A G G GAAGCAGGGGGAGAAAAACGACCAGGAAAA
 A GAACGAGAAGGGGACCGGGGAAGAAAGGAAAGGGAACAAAA ACCGGGGAAAAGGGGAAGGAGCAAGAAAGGAAAGGAGGGGAA A G G A A A G A G A A G G G G A A A TAGGGGGGAAAAAGGGAGAAAAA G G G G A A A A A A A A A CAAGGACAAGGAACCAACCGGGGAGAAGAG $A C A G G A G A A A A G G G G G G G G A A A A G G A G A A G G G A C A G G G A C A A$
 G G G G G A A G A G G G G G GAA $A \operatorname{GGGGAAGGAACCGGAAGAAAAGACA}$ A G GAGAGGGGAAACAACAAAAGGCCCAGGGGACAGACAAGAC C GAGGACGGCCCAGAACGAAGAAAAAGGGGGAGGGAAAAGGG GACTTGGAAGGAAAAAAAGGAAGGGCCAAGGCAAGCCAACAG
 $G G A C A A G A G A A G G A G C C G G A G A A C C G G G G G G G G A A A A A A A A A$

AAAAACCCCCCGGAACCAAAAGGAAAAGGGGGGGGGGAAAAA ACCGGAAGGAAAAGGCCGGAACCGGGGAAAAGGCCGGGGGAA
 A A A A A G G G GAAAACCAAGGAAGGGGGGGGGGAAGGCAAAGGC $C \subset C G G A A A A G G A A A A A A G G A A A A G G G G A A G G A A A A C C$ AA AAAA A A A G G A A A A A A A A G GCCGGAAAAGGGGAAGGAAGGAAAAAAA
 $G G G C C G G A A G G A A G G A A A A G G G G G G A A A A A A G G G G A A G A A A A$ A A A G G G G A A A A G GCCAAAAAAAGGGGGGAAAAAAAAAAGGGGC $C G G A A A A A A G G A A G G G G A A G G G G A A G G A A A A A A G G C A A A A A A$
 A G G G G GA $\operatorname{A} G \subset C A G G G G A A A G G A A G G A G A A G A G G G G G G C A A A A$ A $G \mathrm{G} G \mathrm{G}$ A A A A A A A G G G G G G G G G G A A A A C CAAAA A G A G G A A A A A A
 A A G G G G GCCGGAAAAGGAGAAGGAAGAAGGGGGGAGAAAGAG A GAGGGGGGGGGGAGCAAAAAGGGGGGGAAAGGAAGAAAAAA G G G G G A A A A A A C C G G G A A A G G A A G G A A G G G GAC GA G G G G G G A GAGGAAGCCAGGGAAGAGGAAGGCCGGAAGGAAGGAAAGAGA $G G A A A G G A A A G A G G G G A G G A G A A A A T A C C C A G A G A G A A A G G G$
 AAAAAAGAAGGGGGGCCGAGGAGACGGGGGGAGAGAAAAGGG GAAAAACGCGAGAAAAGCAAGCACAAAAAGGAAGGGGGGGGG A A A G G A A A A A A G G G GAAGC G GAACCGGGACAAAAAAAA GAAA G GAGGAAGGCCGGAAGGACAGCCGGAAAAGAGAAAAAAAGGC CAAAAAGAAGGCCGGAAAAAGCCGAGGGGGGAAGGGGGGGGA
 GAGGGGGGGGGAAAAACAGAAAGGGCCAAGGGGGGCCCAACAC CAAGGGCAAACGGGAGGCGCCAAAAAAGAAGAGGGCCAAGGG GCCGACCGGACAAGAGGAAGGACGGAAGGAAAGCCGAAAGGC C T TAA A A G G GACCGGCCGGCAAAGGAAAAGGAAAGAAGGGGA GAAAAAAAACCAGAGCCGGAAAAAAAAAGAGAGGGGGGGGGG G G G G G G G G GAGAAAAGAGAGGCCAAAGAAGGAAGAAGAAAAA A G G G G A A A A A A G G G G G G A A A G G A A G G G G G G A C C G A A A C C G A T TA $\subset$ C $A G G \operatorname{G} A A G G G G A A G G G G G G G G A G G G A A A A A A A A A A A A A G G$ G G G A A T T C C G G A A A G G A A A A A C C C C GGGGGGGGGGA GAACAC C G G A A A A A A G GCCCAGGAGAAAAAGTTCCGAGGGAAGAAGGG GAAAAAACCGGGGAGACGGAGAAAACCGGAGGGAGAGGGAGA A GAACGGACAAGGAGGGCCAAGGAAGGAAAAGGAAAAGAAAG G G GAACCGGAAGGGGAAGGCCCCAAGGGAAAAAAAGGAAGAG
 A G G A A A A A A G G G G G G T T G G A C G G A GGGGAAAAAGGGGA G C CA A G G A A G G A A A A G A G GAGGACAAGAAGGGGAAGAAGAGAAAAC $C G G G A A A G G A A G A G G A A A G G G G G G G G A A A T T A A G G A A C A G A A$ A G G G A A A A A A A G GAACCAA $A$ AAAAGGGAGGGGAAAACCGGGGC C G G A G A G A T C A A A A A G GAGCC GAACCAAGCACAAAGAACAA G A A T G A A G G G G A A TAACCGGACAAAAGGGGGGAGGGGGAAAA G AAA A G G G G G G G A A A A A A A A A A G GAAAACAA AAA A G G GA GAA A AAGCCGGGGCCGGGGAAAAGGAGAACCAGAAGGAGGAAGAAC
 A GAAAGGGGAGCCGGAAAAAACCGGGAACAGGGAAAAAGGGG G G A A A G G G G A A G G G A G G A A A G G G G A G G G G A A G G A A A C G G G G A $G G A A A A G C A A A A A A A G A G G G G A A G G C C G G A A G A A C A G G A G G G$ G G G G G A G A GAGGACAAGGAAGGGGGGGGGACAAACBGAACAG GAAAGCCCACACCGGGGGGAGGGGGCCAAAAAAAGGGGGGGG GAGAGAAGGGGGGCGGAACACAACAAGGGGGAGAAGACAGAA CAAAAGAACGGCAAAGGGGCCGGGGAAAAAAGAGGGAAAAAG
 $G G A G G G A G A C C A G A A G A A A A A G G G G G G A A G G C C A A G G G A A A G$ G G G G G A A G G G G G GAA $A \operatorname{AT} T C C A A A A G G A A A A G G G G A A G A G G G$

GAACCGGAACCAAAACGAACCACGAAAGAGAGGGGCAGAAAA G GAA A A A A A G G G GAAGGAGGAGGGGAGAAAAGGAAAACABAA A G GCCAAAAGGGGAAAGGAGAGGAGAGGAGAAGCCAAGAACA $A C C G G C A C C A A G A A G G A G G G A G G A G A G C C A G A G G A G G G G G G C$ C G G GAACAGAGGGGGAAGGAAGGAAGGGGAACCGAAAAAGGG
 GCAA C G G A GAGCC G G A A A A G G G G A A G G A G G A A C A G A A G G G G A C G GAAAGAAAGAAAAGGAAAAGAAAGGAAAAAAGAAGCACGA GCAGAAAGAGGGGGGGGAAAAGGGGAAGGCAGGACAGAAAAA AAAAAGGAGGAAAGAGAGAAAACGGCCAGCCAAAAGGCCGGC C G GAAAAAAAGAGCGGAAGGAAGAGGGGGAGGGAAAAAGGGG $G G A A A A A G G G A A G A C A A G G A A A G A G G G G G G A G G G G A A G G G G G$ GAAGAGAGGAAAGAAGACAGAAGGACAACAGAGGGAAGAAAG G G G G G G A A G G G G A A G A G G G GAGGGAAAAAGGAGAAAA GAAAC CAAAAGGGGGGGGGGGGACGAAAAACCGGCCGGAGGG
AAAGAAGGAAAAAAAACAAAAGGGGGAGCCGAACAGGAGGA $A C C C C A A G G G G A A A G G C A A A A G G A A A A A A A A G G G A A A G G G G A$ A G GAA A GCCGGAAAAAAAGAGAGAGGGGGAACCAAAGGAGAA A GAGGAGGGGAAGAAAAAAGGAAGGGGGAAAAGGGAAAAGGC C G G A A G G A GCCACACAAGGCAAGAGAAAGCCGGAA GGGAGGG
 G G G G G A G G A A G A C G G A G G G G G G G A A G G G G G G A A $\mathcal{A} G G G G G G G G$ $A C C G A G A A G G G A C G G A A A G G G G G C C G G A A G G G A A G T T G G G G A$ G GAGGGAAGAGCACCCGAAAAAGAGGAAAGGAAAAAGAACAA GAGGGCCAACCAAAAGGGGGGGGAAAGGACCCCGGAAGAAAG GAA $A \operatorname{GA} A A A G G G G G A A G A T A A G G A G G G A A G G G A A A G G G G G G T$ TAA A GAACCGGGGAAGGAAAAAGGAAGAGGAGAAAAAGGGGA GACGGAAAGAAAGGAGGAGGGGAAAAGGACCCCAAGAAAABA $A G G C C G G G G G G G G A G C C G G A A A G A A A A G G G A A G A A A A G G G G G$ $A C C G G G A C A A A G G A C G G A C A A C C G G G G A A A A G G G G G A G A G A G$ A A GAGAGAAACGGAGGGAAAGAAAAGGAAGGAAGAAAAAAAG GA $A$ A A $\operatorname{A} G \subset A A A G A A A G G G G A G G G A A G A G G A G G G G G G A A A A A G$ G G GAGCAAGCAGGCCAAGAAAGGGGAAAACCAGGGAAAAGGG G G G A G A A G G G A A A G A G A A A G G G G G A GACCAAGGAGAGCA A A A C G GAGGGGGCCGAAGGCGAAGGGGAGGAAACGAGGAGAAGAA GAGCCCAGGAGGGAAGGGGAAGGGGAGAAGGGGGGGGGAAAA AAAAAAAAAGGGGAGGGAGAAGGGGAGAACCAGAGAAAACCA AAAGGAAGGAGGAAGGAGGGGAAAAGAAGAGAGAGAAAAAGA GAGCAAGAGGGAGAAGAAAGGGGAAAAAGACACAGCCAAAAG G G G C A G G A A A G G A G C A G C A A A A G A A G G G G C C G G C A A A A G G G G G G G G GCCGGAAGGAGAAGGGGGGAGGGAACAAAAGGCGAATA
 $C T T A C A G G A A G G G A A G G G G G G A A G A C C A A A A A A C A G G A G G G A$ A A A A A A A G A G G A CAGAGGGCCGGGAAGAGGGACAAGGAGGAA A G G A A A G G A A G CAAAA A A G GAGGGAGGAAGGAAAAAACACCA $A C C C C A G A A A A G G A G C A A G A A G C G G G A G A G G A A A A A G G A G B A$ GAAGAGAAAGGAGGGGAAGAGAGAAGGCCGGAAGGGGGAGGA AAAGGAACCCAAGAAGGAAAAGGAGAACCAAAAGGCCAACCG AACAAAAAGCAAACACAGGGGGGAGAAGAAAAGGAAGAAACG GACAGGAGGTTAAAAGGGAAGAGCCCCGGAGGAAGAGGAABA
 GAGGAAGCAAAAGGAGAGAAAAAAGGGGGACAGAAAGGAACAG $G C C A A A A A G G G A A C C G G G A A A A C G G A A G G A A A A G A A C A B A A G$ GAGGGAGGAAGGGGGGGAAGGAAGAGGACAACCACAAGGGGG G G G G G A A A A A A GAG G G GAAAAGGGAAGGGGAGGGAAGA GAAA A A A A A A ACCAACCAAGGAAGGGGAAGGGGGGAAGGGAAAAAA
 $A C C A A G G A A C C G A A G C A G A C C G G A A A A A A A A C G C G G G A A A A G$ GAAAAAAAAGGCCAAGGGAGGAAGGAACCGGGGAAAGGAGGA

A G G A A G G A A A GAGGAGGGGAGAAGAGGAGGGGGAAGAAAGGG G G G G G A A A A A A A A A G G GAA $A \operatorname{AGAAGGCAGAACAGGGGAAAAGG}$ G GACCAAGGGGAAAGAAGGGAAAGAGGCCGGAAAAAACBGGA A G G GAGGAAGGCCAACCCCAAAAGGGGGGGAAAAAGGGAGGA GAAAAGGAAAGGGGGAAGGGGGGAAGGAAAAGGCCGGGGGGA G G G G A G G G G A A A G G A A A A A A A G G G G G G G A G G G G G T T A A G G C C A
 $A G G G G A G G G A A A G G G A A A G A G C G G G G G A A A A G G A G A C G G C C G$ GAGAGAGACGAGGACGGAACCGGAAGGGACAAAGGAGAA GAA GAGAAGGAGCCGAAAAGAGGGCAGGAGAAAGACGGACGCGGG
 A G G GAACGGGAAAGGGAAAGGTTAAAAAAAAAGGGGGGGAGA GAAGGGAGGAAACGAGGAGGAAGAAAAAGAGAAAAATAAGGG G G G A A C C A A A A A A G G G A A A A A A GAC GAAAC CAAA A A CAAC G A GAAGGGAAGGGAAAGGGCCAAGGAGGGGAGAGAAAACGAACG A G G G G G G G GAAAGGGGGGGAGGAAAAAAAAGACCAGAAAAA G GCGGAAAAAGGGGGGTACGCCAAAGGGAGGGGGACCCCAACA A A G G G A A G A G A G GCCAACAAAAGAGATGGAGGAAGGGAAAAA CAGCCGGAACCGGAAGGAGGAGGGGGGAAAAAAAGAGGGGGG GAGCCCCGGGAAAAGAGGGGGAACCAAAGAGGAAAAGCCGAG A G G G G GCGGAGAAGAACGACCGACCAAAGGGGGGGGGCAAGA G G G G G A A G GAGGAGAAGGAAAGGAGCAGGGGAACCAAAAAAA GAGGGAGCAGAAAAGGAGAAGAAAAGGTTAAAAAGCCCCGGG AAGAGCAGAGGGGAGACAAGAAAAAGAAAAGCAAAGGAAAGG AAAGGGGGGGGGGGGGAAAGAGGGAAAGGGGGAGGAAAAGAC GACGGAAGGGGGGGGAGAAAGGGGGGGGGGGGAGAAAAAAGA AAAGGAGAGAAAAGGAAAAAGACACAAGGGGCCCCGAGAGAA
 AAACCGGGGAACCGGGGCCAAAAGGGAAGCAAGAACCAAGGG GAACCAGAAAGGGAAGGAGGAAAGGGAAACGCCGAAAGAAAC A GAA A G G G A A A G G G GAGGGAGAAACGGAACCAAAA G G TATGAG G G GAAAGGGAAAAGGAAAAAAAGGAGAAAAGGAAGGAGGGAG AAAGGGGGACCAACCAGGGAAGACCGAGAGGACAAGAAAGGG $G C C C C C C G G G G A G G G C G A G G A A A A C A G G G G G A A A C B A G G C C G$ A G G A A A A A G G A G G G A A C A A A A $\mathcal{A} G G G A A G G G G G G G G A A A A C A A$ A A A C C A A G G G G A A G G G G A A C C G G G G G G G G A A G G C A A A A A G G A C GAAAGGAAAAGGAAAGAACCGGAAGGGAAAAAGGAAAAAGAC $C \subset C G G A A A A G G A A A A G G G G C A C A A A C C G G G G A C A G G A A G A G A$
 CA $\mathrm{A} G \mathrm{G} A \mathrm{~A}$ GACCGGGGCCGGAGAAAAGCAAAGAGGGGGGAAAA A G GAAAAGAGAAGGGCAGAACCGAGAAAGGGAAAA GGGGGGG
 $G G A G A G A A G G G G G G G C A A G G G A A A A G G A G A G A G G A G A A G G G G$ A G G A A A G A G G G G G G G G G A G G G A A A A G A A A G GAC G G G G A A G G A A G G G A A A A G G G A A G GAGAGACAGGGGAAACCAGAGGAAAA GA C A A A A G G A A G G A A G GAA $A \operatorname{GGGGAAGGAAAAAAGAAAAGGGGGG}$
 $G C C C A G A G G G G G G C C A A A A A C A G A A G G A A G G A A G A A G A G A C G$ AAAAGGGGAGAGGGGAACCAGGAAGGAAAAGGGGGAGCAGAA $G C \subset A A A G A G G G G G C C A A G G G G G G A A G G G G G G G A A A A A A G G G C$ C G GCCAAGGGGAAAGAAGGAAAACCAACCGGGGGGCCAAAAG G G A A G G G G G T T G G G GCCGAAACCGGGGCACAGGGGGAAAAGA GAGGAGACCGGGGGAAAGGAACCAAAAAAGGCCAAAGAAAAA
 A A G G A A GCCGGGGAGGGGGGGAAGGGGAACCGAGGGGCCGGA TAAAAAGGGACGAGGCCAGAGGAGGGGGGGGGGAAAAAAAAA AAAGGAAAAAAAAAGCCGAGGGACAGGGGGGAAGAAACAAAG GAAGGGGGGGGAAGAAAGGGGGAAAGAAAACGGGGCCGGGAA A GAACAAAGGAAAAAGGAGAACGGACCGGCCAGCCCAGAAGG

G GAGAGAGAAAAGGGGAAGAGAGAAAAGAGGGGAGAGGGGGG GAACGGGAAGGCAAAATAAAGAGGGGAACGCAGAAAACAGAG A G G G G A G A G G G G G G GACAA A A A A C CAAAG GAAG GAA G GAA A G C CAA $A \operatorname{GA} A A A G G C A A G G A G G A G G G G G G G G G C A G G G G A G A G G G G$ A G GAAGGAAGACCCCGGGAAAGGGAAGAAAAGGAACCAAATA G G GA $\operatorname{l}$ GACAGAAAGGCCAGAGCCAAAAAAAAGGGGCCAAAAA A G G A G A G G G A A G G G G G G G G A A G G A G G C G G G G A A A A A A C C A G C AAAAGGGGGAAAAAAAAAAAGAGGGAAGGGGCACCACGAAGA G G G G A C A G G G G G G A A A A A A G G G G G G G G A A G G C C A G G A G A G G C AGGAGGGGGGAGAATAGGGAGAGGGATAGCCAAAAGAGAGAC AAAGGGGGAGAGAAAAAAACCGACAAGAAAAGGGGGGAAGAG

 GAAGGCCAAGGGAAAAAGGAAGGGAGAGGAAAAAAGAAGGCC A G G GAGCACAAAAACGGGGGGCCCAGGAAAGAAGGCG
CAACGGAAAAAAAGGGGGAGACGGGGGAAAACAAGAGGAGC C G G A A A A A C A G A A G GAA $A \operatorname{GA} A G G G G G A A G G A A G G G A G G C A A A A$ GAACAAAAGAAAGAAAGGGAGAGGGAGAGGAGGAAGAAAAAA AAAAAAAGGAAAAAGAGAGGGAAGGAAGGAAAGCCAAAAAAG GAGAGAGCCGAAAAAGAAAAACAAAGGGGAAAGCACACAAGA GAAGGAAAAGAGGAAAAAGGGAAAAGAGGAAACAAAAAAAGA G G GAAGGAGACAAGGAAAAGGAGAAAACAAGAGCGAAAAGGA
 G G G A G A A A G A A G G G GAA $A \operatorname{GGGA} G G G A A G A A G G G A A G G A G A C A A$ A GAACGACCGAAGAAGGCCAAAGGGAGAGGGAGGGCAGGGGG GAAA $A$ A $A \operatorname{A} G C C A A A A G G G G G G A A A A G A A G G G A G G G G G G C G G G$ G G G G G A A G G A GAGGGGAGAGGAGACAAAAAAAAAAGGAAGGG $G C C A A G G G G C C A G G A A G C A A A A G G G A A G A A A G A G A A G G G G G G$ A G GAA A GAACCGGGGAAAGAGGAGGAGAAAAGACCCCAAAAG A G G G GAGAGAAGGAGAAGAGGAAAAAGGGGGGGCAAAAAACA C G G A A G G A A A GAGGGACCCAAAAGAGGGGAAGGAAACACCAG G G GAAACGGGAAAGGGGAGAACAAAGAGGGGGGGGGAAAGAA $A C C C C G G C C G G A A C C A A G G G G G G G G A A G G G G A A G G G G A A C C G$
 G G G G G A A A A G G G G A A G G A A A A A A G GAAAA A GAAAAAAAG G G G A $A C C T T G G G G A A A A A A A A A A A A A A A A A A G G A A G G G G A A G A A A G$ G G G G G G G G G G G G GAAAAACAAAAAGGGGAATTGGGGGGGGCCA A G G G G G GCCAA G GAACCGGAAGGGGGGGGCCGGGGAAGGGGA A A A A A A A A A G G A A A A A A A A A A G G G G C CAACCGGG GAA G G G G G $G C C G G A A G G A A G G A A C C A A A A A A G G A A A A G G G G G G A A A A G E T$ $T G G A A C C A A G G A A A A A A G G C C A A A A G G G G A A A A A A C C G G G G G$ G G G A A G G G G G G A A G GAAAAAAACCAAAAAAAAGGGGGAAAAA G GAAGGGGAAAAAAGGAACCAAGGAAGGGGAACCGGGGAAGAA $A C C A A G G A A A A A A T T G G G G C C A A G G G G A A A A A A C C G G A A G B A$ AAACCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAGAAAT TAAAAAA $A \operatorname{A} C C G G A A G G G G G G A A T T A A C C G G A A G G G G G G G G A$ AAAAAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAG G G GAA $A \operatorname{GAA} A C A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G$ GAAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGAA AGGGGCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAG GAAAAAAAAAAAAAAAAAAAAAAAAAAGGGGGGGGAAAAGGG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGGAAAAAA A A A G G A A G GAAAGGGAAGGAACCGGAAAACCGAGGGGACAAA A G G G G A A A A G G A A G G G GAA A G GAGGAGAAAGGGGC GA G GAAA G AAAGAGGGAAGAACCGGGGGGGGAAAAAAGGAAGAAAAAGGG A G G A G A A G G G G A A A A $\mathcal{A} G G G A A A A A G G G G G G A A C C A A C C A G G B A$ CAGCAGCGACCGGGGAAGAGGCGGGCCAAAAGGAAAAGGGGA $A C C C C A A C A A G A A G A A A G G G G A A G G G G G G G G G G C C A A G G G G A$ AAAGGCAGAAGGAGAGGAGACCCAAAAAGGGAAGGGAACAAA

AAAGGAAAAGAGGAAGGCAAAAAGGCCGGAAAAAAAAGAGAA $A C A G A A A G G G G A A A A G G C C G G G G A A A G A G G G A G G G G G C C G B A$ A GAGCAGAGGGAAGAAGGGACCACCGGCCAAGGAAGAAAGGG GAAGGGGAAGGAAGGAGAAAACACCGAAAACAAGGGGAAAAG A A A A GAAGAGGGGGGAAAGGACCCAGGGGGGCCAAAAGAAAG GCCAGAAGGAAAAGGAAACAAGGCCAAGGAAGGGGGAAAAAG GAA A G A A G GAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A C C G G G G G G A A A A A A A A A A G G C$ C G GAAAAGGAAAAAAAAAAGGAAGGAAAATTAAAAAAAACCA AAAAAAAGGAACCGGCCAAAAAAGGGGAAAAAAAAGGAACAG GAAAAAAAAGGAAGGGGAAGGAAAAGGGGGGAACCAAGAAAT TAACCAACCAAAAAAGGAAAAAAGGGGAAAAGGAAAACAAGG GCAGAAGGGAGAAAGAGACAGGGAAGGGGAAGAAAAACAAGC AAAGGGGAAGGGGAGACGGAACCAGGAGAGACCGAAGAGAAA AGGAAAAGGGGCCAATTAAAAGGGGAAAAAAAACCAAAAAAA AGGAACCAAGACACACCACCCGGCCGGGAAGGATTAAAAGGG GAAGAGGAGGAAAGGAAAAGGCCACGGGGAGAAGGACAAAAG
 G G G A A A C G G G GCC G G G G A G A A A A GAAGGGAGAGAGAGAAA GA GAAGACAAACCAACCGGGGCAGAAGGGTTAAAACCGAGAAGC C G G G G G G C C C C G G G G A G G G A A A A A A A GAA A A A G G A G G G A A G A AAGGGGGAGCCGGAAAAGGAAGGGGAAGGGAAAGGGGAAGGG GCCGGGGGGAAAAAAAAGGAAAAAAGGCCAAGGAAAAAAGGG G G G A A A A A A A A G GAAAACCGGGGGGAAAAGGGGAAGAAAAAA ACCAAAAAAGGAAAACCGGAAGGAAGGGGGGAAAAAACAAAG GAAGGCCGGGGAAAAGGAACCAACCGGGGAAGGAAGGAAGAA A G G G GAA $\operatorname{A}$ GAACCAAGGAAAAGGGGAAGGAAAAAGCCGGGGG GAAAAAAGGCCCCCCGGGGCCGGGGGGAAGGGAGAAGGAACA G G G A A C A A A A G A A A A G A A A CAGAAGGAAGGGCACAAAA GAAA C G G T A A C G G G GACAGGGACGAAAGGGGACAAGGCCAGEAGGG $A C C C A G G A A A C A G A A G G A A G G G G A A G G A T C C G A G G G A A A C A A$
 A G G G G GACCAACCAGAGGAGGGGGGGAGAAACCACGAGAAAG GAAGGAAAGAGAGGGGAGGAAAGGAGGAGCCCAAGGAGGGGA G G GCCGAGGGGAAGGCCAAAACGAAAAACBAGACCAGGGGGG A GACCGAAAAACCCCGGAACCAAGGGGAAGGGGGAGAAAAGG A GAA A A GAGCCGGAAAAGGAAGAAGACAGCCAGGGGGAGAGA A G GAA A A A A G GAAAAAAGGGGAAAAAGAAGGGGGGAAAAAAC A A A A A A A A G GA A A A A A A A A GAAAGACAGAGGGGGGAA GAA GA GAGGAAGAAGAGGGGGGAAGGAAAGCAGGGAAGAGAGACACAA G G G A A G G G GAACCAGAAGGCCAAGGGAACGGGGAAAGGAAAG AGGAGAGGGCAGAAGAAGACCAAGGAACCAAGAAGCCAAAGA A ACGAGGAAAAGGCCGGCCAAGGGAAGGGCCGGGGAAGGGGA $A C C A A G G A G A A G A A A C A G G A G A G G G G A G A C C G G C A G A A A G G A$ A A A G G A A A G A A G A A A G A A G G GCC G A G G G G A A G G G G CACA G G A A A A C C C CTTACCCCCAAGAGAGAGGAAGAGGAAAGGGACAA G G G GCCAGAAAAGGGGGGCCAAGGGGGGAAGGCCAAGAAAAAC CAAGGAAGGGGCCAAAAAAAAGGAAAAAAGGAAGATTAAGGGG G G GAA $A \operatorname{Gg} \operatorname{G} G \mathrm{G}$ GAAAAGGAAAAAGAAAAAAGGAGACAAAAGGC ACCGGGGAAAAGGGAAAGGGGAGGAGAAAAAAAA GAAAAGAA A G G A C G G G G G G A A G G G G A C G G G G GAAGACAGAACC GACAAA $A$ GAGAGAAGGAAAAGACAGGGGAAAGCCAGGGGGCCAAAAAAG $G G A A G G G A A G G G C A G A A A G A G A G G A C A G A A G A G A A A A G A A C A$ $A G A G G C C A G G G G G G G G G G G G G A A A A A A G G T T G G A A G A G G G G A$ A G G GAGAAGAGGAACGGGGGGGAAAAAGGGAGGCCAGAAGAA G G GCCAGAGAAAAAAAACCGGGGAGGAAGAAAAAAGGAAAAG ACAAAACGGAGGAGAGAAGGAAAAGAAGGGGGAAGGAGAAGA ACCAAGGGGGGAAGGGAAAAGGAAGAAAACGAAAGGGAAAAAA A G GAGCCGAACAAGGAAGAGAAAAAGGAGGACACAAAAAAGG $A G G G G G G C G G G G G G G A G G G G G A G G G A A A A A A A A G G A A C A G A G$

GAGGAGCAGAGAGGCGGAAAAAAAGAAGGAAAGACAAAGAAA ATTAAAACCCCGGGGGGGGAAGGACACGAGACACCCAGGTTA GAAGAAAAGGAAAGGAGAAGAGGAACCGGAAAAAAAAAAABAA
 G G GCCAAAAGAAGCGAGGGAAGGGGGGAGGGGAAAAAAAAAG G A A A G G G A G A G A A $\mathcal{A} G G G G G G G A G G A G G A G A T A C A G G G A A G G G$ A G G G A GAGGCAAGAGAGGGGGGAACAGAACCAGAAAAAAAGG GAAAAAAAGCCCAGAGGAACCACGACATTACGGCCGGGAAAG $A G A C A A G G G A G G A A A A G A G A A A A G G G G G G A G C C G G A A G A A G G$ AAACCGACAGGGGAAGGCAAAAAGGAAAAGAAAAGAGAGGGA A A A A ACCAGCCAAATGAAAGACAGGAAGGGGCCGGAAGAGAG ACAAACCGAACAAAGCCGGAAAAACAGGACACCAAGAGGGGA GAACAAACAGAAACAAAAAAGGGGAGAAAGGAAGGAAAAGBA C GAGGAGCCACAGGAAAGGGGGGAAGGGGAAAAGGGAAAGGG G G GCCGGGAAAAAGGGGGGAGAAGGGAGGGGCCAAGA
G GAGAAACGAGGGGAAGGGGCCGGGGAAGGGATAAAGGAGG
 GAGAAAAAAGGGGAGAATTCCGGAAGAAAAATTAAAAGAAAC CACAGAAGAAGGAGAAGGGGGAAGGAAGGAACAGAGAGGGGA GAAAAGGAACCAAGACCGAAAGGGGAAAGCCGGAAAGCCGGG C G G GAAAGGCAAAAAACCAAGAAAAGAGAGGGGCCAAGAAGC CAAACACAAGGCCAGAAAAGGGGGGGGGAGAACCCAAAAGGG G G GCCAAGACAGGGGAAGGGGGGAAGGAGATAGAGAGCAAAG GAAGGGGGGGGCCGGAAGAGGAGGAAGAAAGGGAGAGCAAGA
 G G G A A A A G G A GAGGGGGAGGGAGCCCC GAAGGAAGAAAGACG GCCGGGGACGGAACAAGGAAAAAGGGAGAAAGAAAAAGAGGG GACAGAGGGAGGGGGGGAGAAGGGAGGAACCGGGGCAAAAGA GCCGGAAAAGGAACAGGAAGAAAAGGCGGAGAGGAGAAGGAA GAGGAGGAGGGCCGGAAGGACACAGCCCCGGGGAGACGGGAA
 AAAAAACGGGGCCAGAAGGAGGAGGAAAGAGAAAACCAAGGC $C \subset C A A A A A A G G A A A A A G C C A A G G G G G A G A C C G G A A A G G A G A G$ AAGCCGGAAGAAAGGGAAGAGCCGGGAAAGGGACAAGAGGAG GAAGGAGACAAGGGGGAAAGAAGAGGGAAAGAAACGGAGAAA $A G A G A G G A G G G A A G G A A A C G G A G A C A A G G A A G G G G A A A A G A G$ G G G A A G GAGGGGGGGAGAGGGGGCCAAACAGGGGGAGAAGAA GAGAGGGGGGGGGAAAGAAAAAAAGAGGGCACCAGAAGAGGG G G G A A C C T A A A G A A GCCGGGGAAGGGACGGGAAAA GGGGGGA C G G A A G G G G G G A G G A G G G G A A G G A G A A G G G G A G A G G G A A G G G A GAGGGGAAGAGGGAAGGAAACCGGCCAAAACCAGGGAAAAA A A A G G G A A G A A A A A A A GAACA G G T TAA A G A G G G G A A A G G A G A AACAGGGGGAAAGGGGGAGCAGGAGGGGGAGAGAGGGGAAGA AA G GAACAAGGGAAAGGAGAAACAGACAAGAAGAGGGAAGGC CAAAAGGGGCCAGAAGAGGAAAAGGCAAGAAAAAGAAGAAGT TA $A G G G G A A G G G A A T A A C C A G G G A A A C A A G A A G G A A G A A G A A$ ACAGGGGGGGAGGGGAAGGCCCCGGAACAAAAACAGGAAGAA GAAGGCAAACCCAGCGGGACAAGCATTAAGGCCAAAGACABA GAGAAAAGGGGGGAGGAGGGGCCAACCGGGGGAAAAAGAAAA AAAAAAGGGCCGGAAAGGGAGAGGGAGAAAACCGGGGAAGGG GAAGAAGAGGGGAAGGAGAAAAAGAAACCGAAAGGGGAAAGC A GAA $A$ AA $A \operatorname{A} A G \operatorname{A} A A A G G A A G A C A A A A A A G G A A A A A A A A A G G G$ GAATTAAGGAGAAGGAAGGAAGGAAAGAAGAGGAAAAGGGGA AAAAGAAAAGGCCAAAAAAAAAAAGCCACAGGAAAAACAAAA GCAGAGAGAAAGGAAAGGGAAAAGAAAAAGGAGAAAGGACCA G G G G GCAAAAACGGGAAAAGGGGGGAAGGGGCAGGCAGAAAAA ATATTAGAACCAACCAGAGCCGGAGAAGGCCGGGGAACAAAA A G GAGAGGGCCGGAACCAACCAAAAGGGGGGAAAAAACCCAA A GGCAACGACCGAGGAAAAAAAAAAAAGGGGGGGGGATAAAG

GCGAAGGGGGAGAAGGGAAAACCGGGGACAGAGCAAAAAGGG GAAGGAAAACCAAAAGGAGGGAGGGAAGGAAAGGGAACCACA
 G G G GAA A A A G GCGAAGACCCCAAGGGGAAGGAAAGAGAGAAA G GACC $C$ CAA $A G G A A G G A G G G G G A G G G A A A A G G A A A A G G G G G G A$ A G G GAA A AACCCC GATACAGGCAGAAAGAAACAATAGGAAAA A G G G G A A G GCCAAAAGACAAGCCGGACGGAGCCAAACACAAG AAAGAGGAAAAGGAAAGGGGAAGAGAGAATTAGCCAAAAAAA GCCAAGAAAGGGGATGGACAGGAAAGGGAAAGGGATTCAGAG AAAGGAAGGGAGGAGGCGAGGCCCCAAAAAGGGGGAAAAGGG ACAAAAGAAGGGGAAAAAACCGGACGGAAGAAAAAAGAAAAA ATTAAAAGGCAGGCCAACAGAGGCCGAGGGAAGGGGAGCCCG GTTAAAGGAAAAGACGGGGAGGGAGAAGGAGAAGAAAAAGAA A A A G A A A A GAA GAAAAAAAAAGAGGAAAAAAGGCCGGAAGAC A GACCAGAAAGAAAGGGGGGGACGAAGTACAGGACAAGGAAA GAAGGAACCAGAAAAAAAAAGAGAGGGAAGGCGAAGGCCCCG A G GAAAGACCCAAGGAGCAAAAAAAGAGGAAAGAAAGAGAAG GAAAAGAGGGAAAGGAAAAAGATAGGGGAGAGGGGAAGGGGA AAAGGAAGGAGACGGCCGGAGCAGGCAGGGAGAGAAAAGGAA A G G G A A A A C G GCCAAAAACCCCACGGCCAAGGCCGAGAAAGBA AGGCCAGGAGGAAAAAGAGGGGAGGGGGGAAGGAGGACCGGA AAGGGGAAAAGCCAAAAAAGGAAGAAACAAGAGGGGGAAGAA $A A G G G A A G A A G G G G G C C A A G G A A A G G G A A G G G G A A A A A A G G G$ GAAGGGAAACGAGAGGGGGGGAAGGGGCAAGAAAGAAAAGAA GAGAAAGACCGAGAGGGAGAGACGGGGGGCAGAGAACATAAG GAGGACCAAGGAAAAGGGGGGAAGGAAAAGGAAGGAGGAAAA G G GAA $A$ A $\operatorname{A} G A A A A G G A G A T G G G G C C A A G G A A A G A G G G G G C C A$ GAAGGGAAAGGGGAGAAAGAGAAGGAGAGAACCAGGGGAGAA
 GAAA A A A G G G A GAGGAAGAAGGGAGGGGGCCCCGGGGGGGGA A A A $\mathcal{A} G G G G G C C A A A A G G G G G G G G G G G G G G A A A A C C B G G G G G G$ G G GAAAACCGGGGGGAAGGGGAAAAGGAAGGAAGGAAGGGGA A GGCCAAGGAAAAAAAAAAAAGGCCGGAAAAGGAAAAGAAAA C G G G G G G A A A G A G A A A A GAAAGGGGAAAGAGAAAACCAAA G G $A G G G G G G G G G G A A G G G G A A A G G G A A G A A G G G G A G B A G C A G G G$ GAAAAGGAAAGGAAGCCGAAGAAGGTAAGCCGGCCAAGAAGA AAAAGAAGGGGGAAAAAGGGGCCGGAACCAGCAAGAGAGGAG A G GAAAAGAGGCCAAAAGGAAGGGGAAGGGAAAAACCTXGGA G A A A A G A A CAGAAAGGAGAGAACCCAGAAAGCAGAAAGCGGC

 GACGAAAGGAAAAAGAGCCAGGGCCAAGGAAGGAGAGAGGGG
 ACCGGAAAAAACCGGAGGAACGGAAAAAGAACCAAAAGAACA GAGATAACCGAAAAGAAGGGGAGAGGACAGGGAAGAAAGGGC CAA $A$ A $A$ A A TAA $A \operatorname{GA} A G G A A A A A G A A A A A G G A A G G A G C B A G A G$ A GAAGCAGGAGAAGAAGAGCCAAGGACGAGACCAAGGGAAGA
 ATACAGAAAGAGGGGGGGGGGGAAGAAAAGGGGGGAAAAAGC CAACCGGGGCAGGGGAAAAGAGGAGAGGGAGAGGAGGCCGBA A G GAGAAAAAAGAGGAAAAACAAAGGGGGAGAAAAACGGCCG GAGGGAAAAAAAAGGAAAGGGGAAAAGAAAGCAGAAGCAAAA GAACCAAGGGGAAGAGGAAGACAGAGAAAGAGGGGCAAAAAA AAAGAGACCGAGGGAACGGAGCCGGGGAGGCGACGGGACGGG G G G GAGGAAAAAAGGGGGGAAAAAACCCCGGAAAAAAAAAAG GAGGGCAAAGGGGAAGGGGAAAAAGACAGGAAAAAGAAGAAA GAAA A A GAGAAGGGAGAGGAAGGAAGGGGCCGGGGGACABAG AGAGGAAGGCAAGGAAGCCGGACAAAGGAGGCCCAACGAAAA $A G A A C G G C C C C G G A A G G G G A G G G C A A A G A A G G G G A A G A A A A A$

A G G A A A A C C G G G G G GAAAAAGAAGGGGCAAAAGCCAAAGGGA A GAGAA GAGGACAAAAGAGAAAAGGAAGGATAGAAGAAAGAG GAGGGGGAGGGAAGGAAAACAAGGGGGAGGGGAAGGAAAAAA G G G G G G G G A G GAAAAACAACCGGAAGGCAAAGAAAGGGCCCA GAAGGAAGGGGGGAAAGAAAAAAAAGGCCAAGGAAAACAAGA G G G G G G A A G G G G C A G G G C C G GCC G A G G A GAGGGAAAA G GAA A GCAGGGAGGACGGAGGGAAAAAAAAACGGAAGGAAAAAAGGG GAGGAGAAAAAAGAGGAAAATGGAAGAAGAAGGAAGAAAAGAG GAAGGGAGAGGAGAACAAAAAAGGAGAAGGGGGAGGGGAGGA AAAGGGGAAAGAAGGGAAAGGAAAAGAGGGGGGGGCAAAAGG AAAACGGAAAAAAAAAAAGGGGGAGAAAACAAACCGAACGAA CA $A$ A $C G G A A A G G A A C G G A G G A A G G A A G G A A A C A A C C C A A G A$ GAAGAACGGGGGGGGAAAGGGGAAAAGAGAAAAAAGGAAGGC CAGGCAAAATTGGAACGGGCCCCAAAAAAGGGAAAAGGAACB GAAAAAGCCAAGGAGAAAGAGGGGGCCAAACCCAGGG
G GAAGGGGGGCCAAGGGGAAGGAAAGTAGGAGGGCAAAAGG GAAAGAGAGGAACGAAAGGAAAGGGGGGGCCAGAGCCBAAGA A A A A A A A G GAGAGAAAAGGAAAGAACCGGGAGAGAAAAGAAA A A A A A A G A GAAAAGGGGCCAAGGAAGAGGAGAAAGGGGAGAG G GAAAAAGAAAGAGGAAGGCCCCAGAGAGAGAAAAACGBGAA G G G G G G G G GCACCAAACGGGGAAGGAGAGACGAAAAAAACAG A G G A G G G G A G A G G G G G A G G A A G A G G G G G G G A A G G A G G A A A A $G$ GAGAAGGAACAGGGAAAAAAAAAGGGGGGAAGAAGAAAACCG $G G G A A C C G G G G A A A G A A G A G G G G G G G G G G A G C A G A G A A G C A C$ C G G G G GAA A A A A C G G GAGGCCAACCAGAAGAGGAAGGCAAA G GAGAGGGGAAGGGAGAGGAAAAAGGCCGGAGAAAAGGCCGGA A G GAAAAGGAAAAGAGGAACCAAAAGGAAAAAAGAGGGAAAC CAAAAGGGGTTGGCCGGAGAGGGAAAAAGAACCAAGAGAAGA GAGAGAAAAGGGGAAGGCCGGAACCAGAAAAGAGGACBAACG A GAGGCAAAGGAGGAGGGGAAAAGGGAAAAAAGCCCAGAAAA G GAGGAAGGAAAAAAAAAACCGAGGCCGGAAAAGAAAGAAAA AGGCCAAAAGGAAAAGAAAGGAAAAGGGACAAGAGGGAACAG A G GCCGGGGGAGGACAGAGAAAAGAGAGGCCGGAGAAAAGAA AAACCGGGGGGAAAAAAAGGAGGATAGGGACACGGGGGAAAA A A A G A GA $\operatorname{A} G A G A A A G G G G G A G A A G G A A A A A A A G C C G G A A G A A$ G GAA A GACAAAAAGGCAGGACAAGGGGGGGGAAGAAAAGGAA $A C C C C C C C C A G A A C C A A A A G G A A G A G A G G G G G G A T A G C C B A C$ $C G G C C A A A A G G A G G G A A G G G G G G G G G G A A A A A A G G G G G G G G A$ A G G G G G G A A A A A A G G A A G G G G A A G A G A A A G G G G G G G G G G T T A ACCAACAAAAACCGGGGAAGGGGAGAAGGAGAGCCAGACAAA GACAGGGGGAGAGAGAGAAAAAAAGCAAACAAAAGBAAAAGG G GAGGGAGAAGAACCGGAAGGACGGAAAAGGAAAAAGAAAAC AGGCCAAGGGGAAAAAAAAAAGGCCGGGGGAAGAAGGCAAGA GACAAAAAAAAATAGAAGGGGGGCCAAGGGGCCCCAACAAAG
 $A C A G A A G G G G G A G G G C C C A G A G G A C G G A A A A A A A A A G G A C C C$ ACCGAGAGAACGGAAAAAAAGCAAAAAGAGACCGGAGGGGAT AAAAGAGAGAGGAGAAGGGAACCAAAAAAGGAGAGGGAAAAA A GAGAGAAAAAGGGGAAAACAAAGGCAAAAAACAAGGGGCCG GAAAAGGAGGAGGGGAAAAAAGGAAGGGGAGAGAGGGAAGAA A G G A A GAGGACCAAAAGGGTTGGACAAGGGAAACCCCAGAAA AGGCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGAAAGGG
 A G G G GAAGGAAGGAGGAGGAAAAAGGGGGGAGGGAGAAAGGC A G G G G A A A A G G A G A G G G A G A A A A A A A G G G A A G G A A G A A GA G A $A C C G G C C G G A A A A A A C C C C G G G G G G A A C C A G G G G G A A C A A G G$
 A A A A GCCA $C$ CAAGGGGAAGAGAAGGGGGCACCGGAAAAGGGGG GAAAACCCGGGAATTGGAGGAAGGAGGGGAGAAGAGAAAGGG

A G G G GCCGGGAAAGGAAGGGGAAGGAAGAGGGGGGGGAAGAA A A G GAAGGGGAAAGGAAGGGAAGCCAAGGAAAAAGGAAACAA G G GAAACAGGGAAAGACGGAAACAAGAAGAAGAGGCCGABAA GAAGGAAGGGGAAAGCCAGCCGGACAAAAGGAGAAAAGAAAG GAA A GCC $\mathcal{A} G G G G G G G G G A G G G A A G G G G G G G G A G A G C A A G G G G$ G G G G G G G G A G A A C G G G G A A G G G G A A A A G G A A A G G G C C G G G G G G G G G G A A G GCCGGGGCCGGAACCAAAAAGACGAGGAGGGGGA GGGAAGACCAGGACCGGGGAAAAAGACGGGGAAGGGAGAACA A G G G GCCGGAAAAAACAGAAGAAGAAGAAAGAAAAGAAGGGA A GAAACCAAAAGGAAAGGAGGAAAAAAAAGGACGGGGGGGGA GGGCCGACCAACGGAAAAAAAGAGGGAGAAGGACCGGGAAAA A GAGGAGGAAGAGCCAGGGGAGGGGGACCCAGGAAACAAAAA A A A T TAGGCGGGGGGAAGAAAGGACGGAGAAAGCCCCAACAG
 C GAGGGGGGAGGAGGGAGGGGAAGGCCGAAGAGAAGGAAAAG A GAAAGGCCAAGGGAAAAGAACAAAGGGGGGAAAGGGAAACAA
 G G G A A A A G GCCGGGGAAGGGGAAGGCCAACCAAAAAACGGGG GAGCCAAAAAAAAAGAAGAGGGAGGAGAGACTTAAAAGAGAA A A G G G G G A A G A G A A A G A G G A A G G G GAAC CAA A GAA G G C G G G A A A G GAAAACAAGGGGGGAGAGAGAAAAGGGGGGAAAGGAGAA G G G G GAAAAAGACCCAAGGGACCAAGAGAGGAGGGAAAAAAA C G A G G G G A A A A A A G G G G G G A A A GAC GAAC G GAA G GC C G G G A A AAGAGCCCCAGAGAGAAAAGGAAGGAAGGAAGGCCAAAAAAG G G GCCAGAAGGGAACAGAGAGACAAGGGGAAAGGGGAGACAA
 A GAGGGGGAACAAGGAGGGAAAGAGGGAAGAAGGAAGGAGAA A GAGAGAGAAACCGACAAGGGGGAGGACAAGAGGGGGGAGGG GAACCGGAAGAAGGGGGGGACAGAAAAAAGGGGAGAAGAAAA AAAAGCAGAGAAGGAGAGGGGGGCCGGAAAAGGGGAAAAGAA G G G G G G G A A G G A G G A G A A A G G A A G G A A G G G GAA A A G G A A G G A GAAAAAGAAGAGGGGCCGAGGGGAGGAGGGGGAAAAAGGGGA A G GAGGAAAAAAAGAGAACAGGAAGACGGGGGGGAGAAAGAG A G A A A A A G GCAGGAAGGAAAAAAGAAGAAGAGGGGGAAAAAA G G GCC G G A A A A GAA A A GAGGGAAGGGGAAGGGGAAGAAAGAA GAAAAAAAGGAGAAAGGAAAAAGGGCCGGAAAGAAAAGAAGAA
 GAACAGGGAGGGGGAGGGGCCGGCAGAAAAGACAACAAACAA AAAAGGGCCAAAAAAGGAAAAAAGGGAGGCAAGAAAGGAAAC C GAA $A$ A A A A G G A A G G G A A G A A A GAAAGAA GAAAA A GAAAA A A G G G G G A A G G G G A G G A G G G G A CA A C CAA A A GA A A G G GAA G C C A GGAAAAACCCCCAAAAAAGGGGGAGCAAAGGAAGAAAGAGAA CAAGGGGAAACAGAACCAGAGCCAACCGAAGAGAAAAGGGGG G GAGGAAGAGGAAGGCAAAAAAGAAAAGGGGAGAAGGGAAAA A G G A A GA $A$ A $A$ ATTGAGGGAGGGAGAAGAGGAAAGGGACAAAA GACGAGGGAGGAACCGGAGCCAAGAGAAGGAGGGGGGGAAAA A A G A G GAGGAC GAACAGAGCCGGACAAAGCCAGGAAAAAAAB G G G G G G G A T G G A A C C G G G G G GC C A A A A C C A G G A C C G G G G G G A
 G A A A A A A C CAA $A \operatorname{GA} A G G A A G G A A C G A A A C A A C C A G A A G C A A A A$ $A G G G A G A G G A C G G A A A G G A G A G G G G G A G G G G G G G A G A A A A G G$ GAAGGAGGGAGGAGGCAAAGGGGGGGAGGCCAGGACACAGGA AAAAAGGGAGAGGAAAGAGAAAAAAGGAAGGGGGGAAABAAA A GAGGGAGGAGACGGGGAAAAAAGAAGGGGGAAACAAGGGGA $C G A G G C C G G A A G A G G C C A A G G C C A A G G G G G G G G G G A G A G A G G$ A G G G A C C G GAA A A G G G G G G GAGGAGAGGAAAAACCACCAAAC
 ACCGGAAAAAGGGGGCCAAGGCCGGGGAAGAGAGAGGAAAAA AAAAAAACCGGGGGGGGGGGGGAGACAGGAGGGAGGAAAAAG

A GAGAGGAACCAAGGAAGGAAAGGACCGGAAAAGGCCAAGGG G GAGAGGAAACGAAGAGACGGAAAGAAAAAGGAGGAGAGABA CAAGGAGAGGGAAAAGGGAGGGGAAAGGAGGAAAAAAAAGGA AAAGGAAGGGGGGAAAGAGGGAGGAAAGGAAGGGGAACAAAG GAAAATAGGAGTAAGGGAAAGAAAAAAGAGGGGGGGGGGGGA A G GAA A G A GAGGAAAAGGGGAAAGGGAGAGGCCCCGGAAGGC CACGAAAGGGACCAGAAAAAGCCGGGGAAGAAAAAGGGACCA A A A A A A A A ACAAGCCAAGAAAGGAAAAGAAGGACCAAGAAAA CAA $A \operatorname{GA} A G A G G G G A A A A G A A A A G A A G G G G G G G G G G C C T X G A C$ $C G A C A C A A C G A A G G G A G A A A A A G C A G C A G A G A G G G C A A A G G G$ A G G G G A A A GAA A A G G G G G G GAGAAAGAGGGGCCGGAGACA GA
 A A A A A A A A A A A A A A A A A A C C C G A A A A A G G G GAA G GAAA GAA G GAAAAGGAAGGGAAAGACAGGAAGAAAAACAGGCCAGGGGGT TGGAAAAGGGGGAGAAGAAGGGGGAGGGGGGAACAAG
$C \subset G G G G A A G G A A A A A A G G G G G G A G G A G A G A A G G A A A C C A A A$ G GAACCCAAAGCAACGGGACAAGGGGAAGGAAGGGGGGGGGG GAGAAGGAGGGGGAAGGAAAAGGGGAGAGGGAGAAGGGAAAT TCAAGAGAAGACAAACCAAGGGACAAAGGGAACAGAAAAGAG G G A A A A A G G G G G G G A A A A A A A G A A A A GC CAAA A AC GAGAAC C AAAAAGGGAGGAGGGAAAAAAAAGGGGAGGAACGAGAAAACB

 C G G G G A A $\mathcal{A} G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G$ G G G G G G G G A A G A C G A A GAGAGGAAGAGAGCCGGAGAAA GAAA A A A G G G G G GAAAAAAGGCCGGAAAAAAGGCCGGGGGAAAGAA AAAGGGGGGGGGGGGGGAAAAAACCGGAACAGGACGGAAAAA A G G G G C A A A G G G G A A G G G G C C G G G A A G C G G G A G G A G G A A G A C C GAGGGGGGGAGGAGAAGAAGAAAATAGAGAAAAACCAAABA AAAGGACCCGGAGAAGGGGCCAGGAAGGGAAAGGGAAAAAAG GACAGAAACGGAGGAAAAAAAAGGGAGAGGGAAGBAGAGAGC $C C C G G A G G G A A A A A G C A G G C C A A A A A A A A G G G G A A A A A A C C A$ $A C C G G A A G G G G A A A A G G G G G G A G A A G G A C A G G G G G A A G A A A A$ G G G G G GA G A G A G G G GAA $A \operatorname{GAACGGCCAAAAGGAAAAGAAACAA}$ A G G A C A A $\mathcal{A} G G G G A A G G A G G G G G G G A G C A A A A C C G G G G G A A G C$ C CAAACCAGCAACCAGGAAAGGACAGGGGGGAAAAGGBAACA G G GAAGGACGGCCCCCCGGAAGGGGGGAAAAAAAACAAAAAG A GAGAAAAAAGACCAAACCAAGGAAAGGGAAGGGGAAAAGBA A AC G A A A G A G A A G A A A A G G A A G G A A GGGGAGAAG GAAAAAAA A G GAA A G G GAA $A \operatorname{G} G \mathrm{G} G A A A A G G A A A A G G A A A A A A G G A A G A A A G$ GAAAAAAGGAAAAGGAAGGAAGGCCTTAAGGGGACCCAGAAG AAACAGGAAACACGGGGAGAAGAGAGGGGAAGGAAAAAAAGG GAGAACCAAAAGAGGAGCAGAAACCGGAACCAAAGAAGGAGG A A G G A A G A G G G G G G G G G G G G A A A G G A A G G G G C A C A C C A A A A A AACGAGGAACCAGAGAACAGGGAAGACGGAGGGGGGGAAACA A A GAA A A A A A A G G G GAGAAAAGGCCAGAAACGAA G GAAGAAA G G G G G G A A G G G G T T G A A A G G G G G G A A G G C C G G A C A G G G G G G G A A A A G G G GAGACGGAGCCAAGGTTGGGAGGAGAAAACAGAGGA G GAAACCAAGGCCAAAAAAGGGGCCAAAACCCAGAGAAAGGG A A A G G A A A A G G A G G G G A G G C C A A G G G G A G A G G G G G A A A A G G A A A A A A A G A A A A GCGGGGGGAGAAAAGGAAGAGGGAAAAAGGG G G G G GCCGGGGCCGGAGAATAAAAAGGAAGGAGAAAGGAAA G A A G G A C A A A A G A A G A G G G G A A C C A G G A GAA $A$ A A A A G G G G G G G G GAAGGAGGGAACCCCAAGGAAAAGGGAGGGGAAGGGGAGGGA AAAAAAGGAGGAAAAAACCGGTTGGCCCCAGCGGAAGAAAAG

 GAAGACCGGAGAAGAAGAGAAGAAGAAAAGGGAACAACACCC $C G G A A G G A A G G A A G A A C C A A G G A A A G G G A A A G G A T A A G A G C T$

TAAGGAAAGAAAACCACAGAGAAGGCAGGATAAAAAACCGGA A A A A A A A G GACGGGACACCAAACAAACAGAGGGAAGAGGGGA A GAAAGGGGGGGGAAGAGGAAGGAGAAGGGACAAAAGAGCAA GCCGGAAGGAAGGAAAAGGAGAAAAAGCAGGGAACACBAGGG GCCGGAGCCGAGACCGACCGGGGAAGGAAAACCAAAGAGAGA C G G A G A A A G G A G G C A A G A G G A G A G A G G A A G G G G A A A G G G A G A GCCAAGCAGAGAGCCTTGGAAAACACGCCAACAGGGAGAAAA GAAAGAGCAAAAAGGAAAGAAACAGGGGGGGAAAGAAAAGGG G G G G A A A G G A A A A G G G G A GCCCCAAGGCAAAGGAGCAGAAGA G G GAAGACCGAGGCAAAAGGGTACAGAGAGAGCCCGAACGAA A A A A C A A A GAA A GAACCAAAGGGAAAGACAGACAAAAGACAC C GACACCGAAGGCGAGCAAGGAAAAAGAAGGGAGAGGGGGGG GAACAGGGGAAAAGACAAGGAAGACGCCAGGAAGAGAAAGGA ACCACAAAAAAGACCCGGGAGGACAGGACAAAAAAGGAAGGA A AC GAGGGGAAAGAAGGAAGGAGAAGAGGAAGAGGGGAAACAC $C G A G G A A A A G G A C A G G G G G G G A G G G G G A G G A G G C A G G G G G G A$ G G G A G A G A A G A A A G G G A G G G A A A G G A A GA G G G G G G G G A A G G A $A C C G A C A A G A A A A A G G A G A A A G G G G G G G A G G A A A G G A G G G G A$ A G G A A A A G G A A G G G G G G G G G G G A A G C C G G T T G G A G C C G G G G A A G G A A G G G G G G G G T T G A A G A A A A A A G G A G A A C C A A A G G GAAC AAAGGGAGAAAAAAAAAAAGGAAGGGGGGAAAGGAAAAGGGA
 CAACGGAGGAAAGGAGGAAAACCAAAAAAAACCAAGGGGGGG
 GCCGGAGCAGAGGGAAAAACCGGGGAAGGGGCAAGCCBAGGC AAACCGGGAACAAGGGAGGAAAAGCAGAAAAGGAAGACCCCC CAA $A \operatorname{GA} A A A A A A A A G G G G G G A A G A A C C G A G A A G C C A G A A G G G$ G G A A G A C A A G G A G G G G A G G G A G G G G G G A G A A G G G A A G G G A A A $A G G G A G G A G A A G G G G A G A G G A G G G G C A G G A A A A A G G G A A G G G$ $G G A C C G G G G A A A A G G A C G A G G C A A G C A G A A G G G G G C C G G G G G$ G G A G G A G G A A A C C A A C C A A A A A A A A G GC C A G G G G G A A T T C C A GAGAGGGAAGGGGAAAGAAGGAAAAGGAAGGAAAAGGAACAA CAGGGGAGGAGGGAAAAAGGGAAGGAGAACCCCGGAACAAGG GCCGGCCGGCCGAGACCGGAGGGAAGAAGCCGAGGAAAGAAA A GAA A A A A CA GAA $A \operatorname{A} G \subset A G A C C A A G G G G A C G G A A G A A A G A A A A$ A G G A A G A A G G G A G G G G G C C G G A A G G G G A A G G A A G G G G A A G G G A A GAA A G G GCCAAAAACGGGGGGGAGAAACCAAA GGGAGGGG
 A G GAAAAAAAAAAGGGGAGAGGGAAGGAGCCGGGGAAAGGCC
 G G G G G A A A A A A C CAGC C GAGGGGAGGGACAAAAAAAAGAAG G G G G G A A G A A A G G G A A A A $\mathcal{A} G G G G G A G G G A A A A A G G G A A A A G G G$ GAAGGAAAGGAGGGGGGGGAAGGGAGGAAGGGAGACAAGAAA A G G G A C C G G A A G G GCCCGGGGGGACAGACAGGGA GAAAAGAC C G G GAAA $A \operatorname{A} \operatorname{AAACCGGGGGGAGAAAAAAGACAAGGAGAAGAAA}$ A G G G G A A G G G G A A G GAAAAAAAGGAAGGAGAACACAAAACGAG A GAAA A $A \operatorname{G} G \mathrm{GA} A A G A A A A G G C A A A A G G G G G G A A A A A A A A C A G G$ G GAAACCGGAGGGCCAAGGAAATGCAAAAAAAGGACGAAGBA C G GAA $A \operatorname{GA} \operatorname{A} A A A A G G G A A A G G A T G G A A G G A A G A A G G G A G G A A$ A A A A G G G G A GAGGGGAAAAGGGGGACCAAGGAGAAAAGGGGA G G G G G G G A A A A G G G A A A A CACA A G G G G G G A G G GAGGGGACAA A G GAGGGAGAGACCCGGGAAGAGAAAAGAGGGGGGCCAAAAAA C C C C A C CAA $A \operatorname{GAA} G G A A G G C C C C A A A A G A G A G A A A G G G A C A G$ GAGGGGGAGAACCAGGCACAAAGGGAAAAAAGGAAAAGGGGG G GAGGGGGAGGGAATGGCCGAAAAACAGGAACAAAGGGGCCA GAAGGCACAGGAAAAAGACCCAAAAAAGAGGAGAGGAAACCC
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A GAGGAAAAGGCAAAAAAGAGAAGGGGGGAGAAACGAAAAAA A A A A G A A A ACCAAAGAGCCCAAAAAGGGGGGCCAAAGAGGAA $G G G A G A A G A G G A A G G A G G G A G A A G A G A G G G A G G A A A G G A G G A$ A G G G G G G G GAGAGACGGGGAAAAAAAAAAAAAAAAACAGAGG G G G GAA A A A ACAC G G GAGGGAAAAGAGGGGGAA G GAAAA A A A
 G G G G G G G A G A G G G G A A A G G G G A A A CAAAA A G G G G G C GAAAA A GAACCAACCAAAAAAGGGGAAGGGGAGGAGAAGCCGGGAAAG G G G A A G G A G G G GA G A A A G A A G G A G G A A A A A A C C A G GA GAA G A GGGACAGAAAGAGAGGAAGATAACCAGGGACGGAGACAGGGA A GAAA A A A A A G GAGGAGAGAAGAAAGGGGGGACAGCCAAGGG A G G G G A A A A A A G G A A G A A A A G G G G C A A GAA A G G G G G A G G A A A GAGAAGGGGGGACAAAAAAGGAAAAAGAGGGAAAGAAGAAAG G G G G G A G A G G A A A G A G G G A A G G G G GAGAGGAGGAAAACACC G A AACCGGAAGGCCCCGGAAAACAACAAGGAAGAGAGG
G G G GACCAGAGGGGAGGAGGCCAAAAAAAACCGGAACAAGC C G G G G GAAAAAACGGGGAAAGCCGGAAGAGGAAAGAAGAGBA
 AAAAGGGGAGGAAAAGGAAAAAAAGGGCCGGGGGGAAAAGGG
 G G G G G G GAAACAGCCCAAAAAACGGACAAAAGAGGGGGGGAG G G G G G A GCCAAAAGAGGGGAAGAGAAGGAGGAGACAGAACAA G GAGGAGGAAAAAGGGGAAAGATGGGGGGAGAGAAAAAGCAC AAGCAGGAAGGAGAAAAAGAAGGAAAAGGGGAACAGAAAAAA
 AAACAGCGGGAGGAGAAAAGGAAGGAGCCGAGGAAAAGGGGA A G GAAAAAAGAGGAAAAAAGGCCGGGAGAAAGAAGCGACAGAA A G GAAAGGGGGGGGGAACACCGAAGAAGGACAACCAAACGGG G G A G A G G G A C C G A A G G G G G G G T T G A C G A A G GCAAAAACAAA $\mathcal{A}$ GAAGGAAGAGGGGGGAAAAAGAGAAAGGAAGGAGAAACAAAA $A G G C A G G A A A G G G A G G G C A G A G G G G G G A A G G C A B A C C G G G G G$ GCCCCAAGGGGGGACAGGGAAGGAAAGAGGAAGGACCGGACA GACAGAAACAGGGGGCCAAGGGGCAGAAGAAGGAAAGAATTA A A A G G G GCCGAAGGGCCGGAGGGCCGGAAAGAAAAAGBACCG
 A G G A A A A A A G G G A G G A A G C A A A G C A A A A A G GAGGG GAAAAA A G G G GAAAAGGGCCAGGAATAAGAAAAAGAAGGACCGGCAGAG $A C C A A A A G G A G G G A A A A G G G A A A A G A C A A G G G A G G G G A A G C G$ G G GAACCGGGGACCAAAAGAAGCGCAAAGCAGGACCCBGAGG GAGGAA GACAAGGGAGAGGCAAAGGAAGGAGAGGGEAAAGBC C G GAGGGAAAAAACCGGGAAAGGAAAAAGCCGGAGGGCACAA GCCGGGAAAAGAAAAAAGGACAGGAAAACAAAGGGAGAGAGA AGGCAAGAACCACGAACGGGAGAAAGGGGAGAAGGGGAAGGG GAAAACCGAGGAGAGGAAGCCAAGAGAGGGGAAAAGGGAAAA GCAAAGGAAAAGGCCGAGAAACCGGAAAAAAGGGAGAGGGGC C G G A G A G G C G G G G A G G A A G G G G G A T G G G A A G G G A G G G C A A A G G G G A A G A A G G G G A A A C A G A G G G G G G G CAAAC CA A G G GAAA A A G G A A A G G G G G G G A A G G G G A A G G A G GA GAAA A GA G G GAA G G T TAAGGCCAGGAGGAGGGAAAAAAAGCAGGGGCCGAAAAAAGA A A G G G G A G A A A A G A A GAA A A G GA A A GGAAGGAAAGGAGAAAA AAACCCCGAGGGGGGAAAACCCCAAAGCCGAGGTTAAAAAAA AAACCAGAAGGAACAAACAGGGAAAAGGAGGGGAAAGGAAAA GAGCCAGAGCCCAGAGAGAGGAGGGAAAAGGAGGAGAAAAAG GAGAGGGGGAGCAGCGAAAAAAGCACGGGGAAAAAGGAGGGA
 A A A G A G A A A A A GA G GAA A GCCCCGAGGGAGAAGAAGGGGGGC CA $A \subset A G A A C G G G G G G A A A A G G A G C C G G G G A A G G A G A A C A A G A$ G G G A G A C A G G G G G G A G G A G C G C A G G G G A A A A A A G G A A G G G G G $A G G A G A G A A A C A A G A G A A A A A G G G G G G C C G G G G A G A G G G G G G$

GAGAGGGCCGAGGGGGGAGCCGAAGGAGGGAAGAAGACAAAA A G G G G GAGACCACAAAAAAGGGGAACCGAACGGAGGAAGAAG AAAGGGGGGAAAAAAAAACGAACGGGAGAGGGGGGAGGAAGA A GAGGGAGAGGCAGGAGAGAGGGAGAAAGAATTGAAAGAAAA G G G G GAAGGAAAAGGGACCAAGGAAGAAGGGAGAGGGCCGGA C G A A A C C G A A A A G A A G G A A A A A GGGGGCAGAGAAA G GAAAAA $A G G C C G G A G A G A G A A G G A G G A G G A G A C A A G G C C G G A A A A G G G$ A G G G G G G C C A A G G G G G A C A G GA G G GAA $\mathcal{A} G G A A G$
$113108000-9 A A G G G G C C A A G G G G G G A A G G G G G A A A A A G G A G C$ AAAGGGACCCCCCAAGGGGGGCCGGAAGGGGGGCCGAAAGGA $A C C A A A A G G G G A A G A G G G A C C G G G G A A G G C C G G G G C C A G A G G$ AAGCCAAGGAAAGAGAAGAAGAGAGAGACGGGGAAGAAAGAA ACAAAGAAAGGAAAGCCGGGGCCGGAGGAGAAAAAGGAAAAA $A C C A A A C G G A C A A A G G A G A A G G G G A A A A G A G A G A A G G C C G G A$
 AA GAAAAGGAACCAGAAAAGAAGAACCGGAGGGCAGGCAAGA
 A A A A A G G A A C C A A A A GAGAGAGGGAGGGGCCAACCAGAAAAG G GAGGAACCGGAACCCCGGGGAAGGGGTAGGAAAAGTTXAAA GAAAGGGGAAGAAACGAGGAAAAAACCTTCCAGAGACGGAGC AAAAGCAAGAAGGAAGACAAAGAGGAAAGAAAAGGACAGCAA A G GAA A GAAAGAAAGGGCAAAAGGGACGGAAGGAAAACAGAA AAAGAACGAACAGCCGGCAGGAAAACAGGAAAAAAGGAGGGG GAGAAAAGAGAAACCGAGAGGAGGAGGCAAGGAAGAAAAGAA G G GAGGACAAGAAGAGGAAAAGACCCAGGAAAAGAAGAACAG AAAAGGGGGCAACGCCGAGAGAGGGAAGGAGGGCAAGAAGAA A A A A A GACAGGAAGGGGCCAAGGGAAGGGCCGGTTGGGAAAA G G G A A A A A C G A GAAAAAAA AAAGGAAATAAGCCAAAAGGGGG $G C C A A A A G G A A A A C C A C A A G G A A G G G A C C G G G G A A G G G G C C A$ GACAAGGACGGAAAAAAGGAAAAAGGACCAGAGAAAAAAGAA A G G C A G G A A A A G G G G C C A A A A G G G G A A G G A A A A A G G G A A A A C CAAGGAAAAAAGGGGCCAAGAGGAAACGAGATAACAGAACGG
 C GAG G TAA $A \operatorname{T} T \mathrm{~T}$ CAAAGGGGGGAAAAACAAGAAAAACCGAGAA GAAAGGAAGGAGACCGGGGAAAGAGCCAGAAAACCAAAAGAA G GAGAAGGGGACCGAAAAAAACCGGCCAGAAGGAGAAGGGGG AAGGGGGGGGAGGGGGAACGGCCCCAAAAAAAAAAAGAAGGA AAACCCCAAAAAAAAGGAAAAAAGGAACCAAGGACAGAGGGA ACCAAAAAGAAGAACGAGGGGAAGGGAAAAGAAGAAGGGGGC
 GAAAAGGAAAAGGGGGGAAAACCGGAGGGCCGGAGGAAAAAA A A G G A G A A G A G T A A A G G C A A G G G G G A A T T G G C A A A G G G A A A A AAAGGAGAAAAAAAAAAGGGGAAGGAAGAGGAAAGGGGGGGG GAAGAGAGGCCAAGGGGGGAAAAAACCAGAGAAGAACAGGGG GAACGAGACGGACAAAGCGACGGAGCAAGAAGGCCAGACGGA AGGCCCCAGCAAAGAGGAAAAAAAACCAAAAGGGGGAAAAAA A G G G G G G A T A A G G G G G G G G A A G G A A G G G G G G G G A A A A C C A A A GAAAAAAAGGAAGGGGGGGAAGGAGGGAGCCGGGGGGGGGGG G G G G G G GAA $A \operatorname{GA} A G A A A G G A A A A A A G G A A A C G G G G A G A A G A G$
 C G G A A G G A G G GCC G G G G C C G A A A A A A G G G A G G G G G T T A G G G C AGGCCAAAAAAGGAACAAAGGGGAAGGACAAGGGGAGGAAAA A A ACCAGAGAGAAGAAAAGAAGACCAAGGGGCCCCGAAAAAG AAAAAAGAACAGGAAGGACAGGGAAACGAAAGGGGCAAGAAA A A G G A G G A G G G A G G A G A G G A G T A A A A CA G G G G A A A GACC G G G GAGAGAGGGGGGAAAAGGGAAAAAAGGACGGACAAAACACAA A A A G A A A A A G G G C A A A A A A A A A A G G G G GACCAAACAAAAGAA $A G G A A A A G G G G G G A A C C A A G G G G A G A G G A A G A A A G C C G C A G G$ A G G GAGAAGAACCAGAAAAAACCGGAGAGAAAACCGGGGGGG

GAGAAAGACAAAGGAAAAGAAAAAAAAGGCAAAGGGGAAGGG GAAAAAAGGCCGGAAGGCCGGAAGGCCCCAAGGGGAAAAAAG G G G G G A A A A A ACCGGCCAAGGAACCCCCCGGGGAACCAACCG GAAGGAAGGAAAAGGGGAAAAGGAAGGAAGGAAAAGGAACCG G G GAAAAAAAACCAAGGAAAAGGAACCAAGGCCAAAAAAAAA A G GAAAAAAAAAAAAAAGGGGCCGGAAGGAAAAAAGGGGGGG GAAAAGGCCAACCAAGGAAGGGGAAAAGGAAGGGGGAAAAAG G G G A A G G A A A A A A A A G GAA $A \operatorname{AGGGGGAAGGGGAAAAGGCAGGA}$ A G G A A C C G G A A A A C C G G G G G G G G G G A A G G A A G G C C G G G G C C G GAAGGTTGGGGCCAAGGAAGGGGCCAAGGAAGGGGGGCCGGG GCCAAAAGGGGGGAAAAAACCGGGGAACAAAGGGGGGGGGGG G G G A A G G G G A A G G G G G G G G T T G G T T A A G G A A A A A A A A C C C C A A A A G G G G A A A A A A A A A A A A G G G G G GAACC G G A A G GAAAA A G G
 GAAAA $A \operatorname{A} A A \operatorname{A} T A A A A G G A A A A G G G G G G G G G G A A G G G G G G G G G$ GAAGGGGGGCCGGCCAAGGAAAAAAGGCCGGGGAAAAGAAAC C G G A A A A A A A A A A G G G GCC G GCCAAGGGGGGAAGGAA GAAAA A G G A A A A G G G G G G G G A A C C G G G G A A G G C C C C A A G G A A G G G G G $G C C A A A A G G A A G G G G A A G G A A C C A A A A A A G G A A G G A A A A G G A$ A G G G G A A G G G G G G A A A A A A A A A A C CAA A G G G G G G G A A A A G G A A G G GAGGGAAAAAAAGGAGAACCGGGGCAGGGAGGCCCCGGG GCGGAGAAGAAGAAGGAGGAAAAGGCCAAAAAAGAGGGAGAG GAACAGGGAAGGAAGGGAGCCGGAGGGAAAGCCGACCAAGGG G G A T T G G G GAA $A \operatorname{GGG} \operatorname{G} A C G A A A A A G A G G G G G A A G G G A G G G G G G$ GAGAAAAA GAAGGGAAGAAAGGAGGAAAACAGAGGGAGAAGA TA $A G G A G A A G A A G G A G A A A A G G G A A A A A A C C G G G G A A G A A A A$ A G G G G G G A A G G G GCC $C$ G G G G GAGGAAAAGGAACCAACCAAGGG G G G A A $\mathcal{A} G G G G G A G A A A A G G G G A A G G G G G G G G A A A A A A A G G G C$
 G G GAA A G G G G GAAAAGACCAACCAGGGAAAAGAGGGAAGACA A G A A A G A G G G G A A A A A G A A G A A G G A A A G G G G A A A A G A G G G A A AAAGGGGAGGAGGGGAAGAGAAAAAGGAAGGGGGGGGAAGAA A A GAGAAA $A$ A A A A A G G G G C C A A G G G G G G A A A A G G G G A A G G G G T TAAAACC $A$ A A G G A T G A G G C C G G A A A A G G A A G G A A G A A A G G G G G G G G GAGGGGGGGGAAGAAAGGACAAAAAAAGGAAAGGAAAAG G T TAACACCGGGGCATTGGAAGGCCAGGGAAGGGGGCAGAAG G G GAGAGGAAAAAGGAACCAGGAAAGGGAGAGGGGGGAAAAC CAACCGGGGGGAAAAGGAAGGAAGGAAAACCAATTGGAAGAA
 CAACCGGCCAAGGGGGGAAAAGGAAGGCCAACCAAAAAAAAG GAAGGGGAAAAGGAAAGTTCCAAGGTAAAAACAGGGAAAAAA GAGAAGAAAAAAAGGAACCACAAAGAGACAGGAAAAAAAAAA GAAAAGGGGAGGGGGAGAGGGAACAAGGGGGGGGGCCAAGAA A G G G G A A G G G A A A C A G G C C A A G G A A G G G G G G G G G A C A G A A G C CAACCAAGGGGAGCCCCGGAGGGCACACAGAAGGGAABAAAG GAACCCAAGAGAAGGGGATAAGGGGGGAAACCCAACCABACG GAAGGACCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGG GAAGAGGGAGGAACCAAAAAAAAAAAAGAAAGAAGGGAGCAG AAAGAAGGGCAAAAAGAGGGAACAAGGGGGGGGGAGAAAAAC C G GCCGAAGAAAGGGAGAGCCGGCCAAAAAGGGCAAGAAAAA A A A A A A G G A CAGAGAGGGGGGAAAGAGAGAAAGACAACACAA $A C C A A G A G G A G G G C C G G G G G G A A C C G G G G G G G G G G A G A A A A A$ A G G A G G A G GACAGAAAAGGAAGAAGACGGCCGAAAAGAAAAC $C G G A A G G A A G G G G A A A A G G A A A A C C G G C A A A A C A G G G G A G G G$ G GACCAAGGAAGGGGGAGGAAAGGGGGCCGGAGAAAGACAAA GAAGGGGGGAGCAGAGGAAAGACAGCCGGACAGGGGAGGGGA AAAGGGAGGAGCCGGACAACCGAGAAAGACCAAAAAAGGGGC $C \subset C G G A A G G A A A G C A G G G G A A A A A G G G A G C A A C B G G G G G G G G$ GAGAAAGGGAGAGGGCAACGGGGAAGAGGAAAAAAAGCAAAA
 GAAACGAAAGGAACAAAGGAGCAAACCCCCCAAAAGACCGGG GCAACAAGGGGAAAAAAGGGGAGGGGGGGCCAGABAGGGGAC $C \subset C A G A A A A A A C C A A A A G G A A A A A A A A G G A A A A A A A A G A G G G$ A A A A A G GAAAAGGGGAAGGGGAGAGGGAACCGGAACCAAAAG GAA A G G G G GAA A GAAGGGGCACCGGGGGAGGAAA GAGCAGAG $G G G A A A A A A A G C A A G G G A G G G A G G A G G A A G G G G G G G G G A A A G$ G G GCCCAAAAAAAAAAAGAGGAAAAGGGGAAAAAAAG
GAATAGGAAAAAGGAAGGAACCGACAAAGGGGAAAGAAAAA GACAAAGGACGCCGGAGAGAAAGCGGGGAAGACCAACCGGGA A A GCCGGGGAGGGAAGGAAGGGGACAGAAGGGGAGAAGAGAA GAGGGGAGAGGCCGGGACAGAAAGGACAAAAGGCAAAACGGG G G G G G G G A A A G A A A GAA A GAGACAGACGGCAACGGGGGGCCA A A G G G G GAAAAAACAGGAAGGAAAGGGAAAAGACAGGCAGAA $G C C A A A A A G G A A G A G G A G G A G A A A A A A A A A A C G A G G G A A G G G$ $G C C C C G A A G G G A A C C A T A A A A A A G G G A T T A A A A G G G A A A C C G$
 GAAAAGGGGAGCGGCCCAGGAGGAAAAGGAAGGAAGGAAAAA $A C A A A G G G A A C G G G G G A A G C C G G A G A A G G A G A A C A G G G C C A A$ GAAGAAAAAGGAAAGGGAACAGGAAAAAAAGGGGAGAAACCG GAGACGAAGAGAGAAAAAAGGGGAGAAAAAAGGGGGGGGGGA AAAAAGGGGGGAAGGCCAACCGGAGACAGAGCCGGAGAAGAA AA $A G A G G A A G G G G A G C C G A G G G G A A G G A A G G A A A A G A G A A A A$ A A A G GCCTTCCCCAAGAGGAAGGAGGGCCAAAAGGTTAAGEG $G G A A G G G G A G A A A A G G A G G A A A G G A G G C C G A G G A G G A C A G G A$ AAAAAGAAGCAAGAAGGGGACAGGACCGAGGGAAAAAGAACB A GACCCCAAGAAAAAAAAAAGGGAAGGGGAGGGGGGGAAAGA
 AAAGGGAAAGAGGGGCAAAAAGGAAAAAAGGAAAAAGGGGGG
 G A A A A A G G GAAAAAAAAAAGGGGAAGGAAAAAGGGAAAACAG G G GAAACAGAGATAAGGGAAGGAAAAGGGGGCAAGAGGGGAG GAGAGAAAGGGAAAACCAAGGAAACAAAAAAAACCCCAAACAA G GAA A G G G GAA $A \operatorname{AGGGA} G A G A A A G A A A A G A A A G G A G G A A G A A G$ GAAGGAACCGGAAGAAGAGGGGGAGGGCGGAAGCCAAGAAAG AGGGACCGGGAAGAATTAGAGAAGAAGGGAAGGAGAGAAAGAC CAAGAACGAAAGGGACAAACCGAGGGAGGAGAGGGAGGGAGG $G C C A A G G A A G C A A A A A A G A G G G G A A G A G A A G A A A G A A A G A A A$ A G GAA $A \operatorname{GCCA} A G G C C C C G G A G G G G G A A A A G G A A A A G A G A C A A$ C A A A A A A G G G G A A A A G A A G G GAGAGGGAAAGAAAAAAAAGAC CAAAGGGGAAAGGAACAAGGGAGGGGGCCGGAAGAAGAGAGA GAAGGAGAAACATGGACCCGGGACCAACAGAAAGGGAGAAAG GAAAAAAGGGGGGAAGAGGGGAGAGAAAAGGGGCCGGCGGGG GCAAACCGGGGAGGGGGGGAAGGGGGGAAGGAAAAGGAAGEG G G G G G G G G GAA $A \operatorname{GGG} \operatorname{GAAT} T A A A A A A G G G G A A G G A A A A C A A A A$ A A A A A G GAAGGAAAAAAAAAGAACCCCGGGAAGAAAAGAGAA GCAGGAGGAATAGAGGAACAGGAGGCCACAAGAGGACAAAAG A G G G G A A A A A A G G GAAACAGGGAGGGGAAAAAAAAAAAAGGG GAAGGGGCCAACCAAAAAGCCGAGGGGAAGGGGAAAAAAAAC C GAA $A \operatorname{GA} G G A A G G C C G G A A G G G G A A C C C C C C A A C C C C C C G G A$ A A A A A C C A A G G T T A A G G G GCCGGAAGGGGAAAAGAAAA GA G G $G C C A A A A G A A G G A G G A G A T A G G A G A G G C C A A G G G G A A G A G G A$ A GAGGGAGGAAAAAAAGAAAGAGAGCCAGGGAAAAAAGAAGA ACAGAAAGAAAGGGGGAGAACACAGCAAGGGAAGAAAGAGGA G GAA $A$ AA $A$ A $\operatorname{A} A A A C A A G G A A A A A A A A G A A A A A A A A G A G A A A A$
 $G C C A A A A G G A A C C C G G G G A A G G A A A A C A A A G G A G C C G A G G A$ GA GAGTTGGCCGGAGGAAGAAGGGAGAAAGGAGAAAAGAAAA AAAGGCCCCGGCAGGGGCCAGGAAGACGGAAGAGGGAAAAAA

GAAGGACAAGGAAAGGGAAAAGGAAAAAAAAGGAAGGGAAAG G GAAAA A A G G GAGACCAGGGGAAGAAGACGAAACCAAGA GAA A G G A A C C T A G G G G C C G G G G G G G G G A A G G G G G G G A A C A G A A $G G$ GACGGGGAAGGGGAAAAGGAAGGAAAAAAGGGGAAGGGGGGA G GAGAGAGAAGGAGGAAGGAGGACCGAAGAAAAAAAGAAGAA G G G G G G G A G G A G G A A G G A C G G G G C A G G G A GAAA A G G G C C A A A A G G A C G G G A G G G A G A G G A A A A G G G G T T A A G GCCAAAAAAAAA AGGAAAAGGGACCAAAGCAAAAGGGAGCCGGAGCCTTCAAAG GAAGGAAAAAACGACAGAGAAAAGGAAGGAAAAGGAAAGAGA TGGGGCAAAAACCGGAACCGGAAAACCAAGAAGAAAGGAAGA G G GACATGGGAGGGGACAGGGAAGGAGAGAAAAGAAGGGGGC A A A A G G G G G A G GA $A \operatorname{AXCA} A A G G G G C A A C G A G G G A A G A G A A G G C$ CAAACGAGGGGAGAGGGGGAAGGGGGGGAGGAAGGGGGGGAA AGACCGAGGCCAAACAAGAGGAAGGAGAAAACCGGAAAAAGA AAAGGAAAAAAACGGGGGGAGGGAAAAAAAAAGAACCGAGGA AAACCAAAAGGGGGAAGAAGGGGAAAGCCAAAGAGGGAAAAC
 C G A A A G G A GA G G GAAAAAATAAAGAGGAAGGGGAGAACAGAA A G G A A G A G ACCAGCACAGGGAGGAAGGAAGGGGGGAAAAGGA G G G A $\mathcal{G} G \operatorname{G} A A A G G A G G A A G G C A G G G G G A A A G G G G A A G A G A A A G$ G GAGAGGGGGGGGGGAAGGGAAGAGAGAGAAGGGAAAGAGAA

 AAAAGCACCGGAAAAATGAAAGAATAAAAAGAAAAGGAGGAG GAGGAAAAGAAAAGGGGTACCGGGGCCAGTACCGGAAAAGGA AGGAAGACAAAGGAACCAAAAGACCAAGGAAACGAGGGGAGA A G G GACCAGCCAACAGGGGCAAAAAAAAAGGGGAGGGAGCCC G G G G G G G G A G A A G G A C C A A G G G G A G G G G G A A C A G A G G G A A A $G$ G GAAAGGGGAAAAAAAAAAGGAACCGGAAAACCAAGGTXCCA $G C C G G C C G A A A G G G A A A A G G A A A G G G G G A A A C A A A A C G G G G A$ GAGAAGGGGGGGGAAAAGGAAAAAAGGAAGGGGAACAAATXG $A C C A G C C G A G G A A A A A A A G A A G G G A T A A G A A A A G G A A G A G G A$ A A A A C G A A G A A G GAGGGGCCAAGAAGACCGGGGGGCCCCGGG G G GAACCGGAAGGGATAAGGGGGGAAAGGGAAAAGAAGGGGG GA $\mathrm{G} A \mathrm{~A} G \mathrm{G} A \mathrm{G} A \mathrm{~A} G \mathrm{G}$ TAAAAGGAAGGGGAAAACCAAAGAGACGGT T G G A G G G A C G G G G G A C C G A A C C A GAAGCACACCCCTAA G TA T TGGGAAAAGAAAAAAAGAAGGAGGGCCCCAAAAAAAGAGGGG G G GAGGAA $\operatorname{A} A A \operatorname{A} G \mathrm{G} A \mathrm{~A} G A A A C C A A A A G G A A G G A A G G C C G A G A A$

 A GACACAAGAGGGGGCAGAGGAAAACCAAACGGTTAGAAAAC A G G A A A A A A G G A A C C A A A A G G G G G G A A A A A A G G A G A A G G G G A A G G GAGGGGCCGGGGGAGGGAGACCACACAAAATTGGAAGGA AAAGGAAAAGGAAAGAGGACCGGGGGGGGAAAACAAGAAAAA GAGCAAAGGAAGGAAAGAAAACCCCGGGGGGGGAAGGAACAA A A A A G A G A CAAAAGGCACCAAAAACAGGGCCGGCCCAAACAG GAGCCAGAGGGGAAGACGAAGCCGGAGGGAGGGAGGAGGAAG GCCGAAGGGAAGGAGCCAGAAAACCAGTAGAACGGCCGGGAG A G GAA A A A A G G G G G G G G G GACAGGGAAAAAAAA AAAAAA G $A$ A A GCAAAGAAGACAGAGGAGGGAAGGGGGAAGGCCAGGGABAAA AAAGGACGAAAGAGGCCGAGGGCAGGACGAAGGGGAGAAAGG A G GAGAGAGCCGGGGAGAAAGAAAAGAACAAAAAGGGCCGGG GAAGGAACAATGAAAAACCGGGAGAAAAAAAGGCAAAAAAAA A A A G A A A ACAAAAAAAAAAAAGGAAAAGGAACCCCAAGGAAC AAGCCAAGGGAAAACAGAAAGCCGGAAAAAAGGCCAAGAAGAA CAGCAGAAAAGACAGCCAAAAGGCCGGAAAGGGGAGAGGGGA A G G G G A A G GCAAA A A GAGGAAAAAAAAAAACCAAGGAAGGCCG $G G G A C A G A G C G G G G G A A G G A C A G G G A A A G G A G C G A A C C A C A A$ AAAAAAAGAGGAGAAGCAGAAGACAGGAAGGGGGAATAAAAA
$A C C C C C G A C G G A A A A A A C C A A G A G G A A A A G G A A A A A A A A G A G$ A G G G G A T G A A A A A G G G A A A G G G G A A A A G G G G A A G G C C A A G G G G G G G G G G G GAACCGGAACCGGCCGGAAGGAAGGCCGGAAGAA ACCGGAAAAGGGGAAGGGGAAAAGGCCGGGGAAGGAAAAAAG A A A A A G G G GATAAAAGAAAGAGGAGAGAAAAACATAAAACAG GAAGAAAAAAAGGGGAGACCCAGATAAAAAACAAAGGGGCCA A A A G G G G G G G G G G G C A G G A G G A G G G G G G G A A A G GAC CAAAA T TAAAAAGAAAAGGGAAGAAGAGGAGAAGGAAATAGAA
GAAAGGAAAACCGGGGGAGAGGAGGGGGGAACAGAGGAGCG AGGACGAAGCCAAACGAAGGGCAGGGGAACAAAGAGGGGGAG G G G GAGGGAAAACGGGGAAGAAGAAGGAAAATAGGAAAAAAG G G G A C C A G GA G A A A A A A C C GAAGACAAAAAGCCGGGAAATTG GAGCGAAGGCAAAGACCAACAACAAGGGGAAGGAAGACAAAT TAAAAAAAAAAAAAAGGAGAAAAAAAAAAGGAGAGGGGACAG GA GAA $A$ A $A \operatorname{G} G A A A G G A A G G A A A A G A A G G G A G G A G G A A A A A G G$ G G GCCCAAGGGGGGAAACCGGGGCCAAAAGGGGAAGGGAAGA A A A A A G G A A A A G G A A G G A A G G G G G G A A G G A GA G T T A A G GAA A GAGGGCGAAGGAAAGAAAAGGACAAGGGGAGGGAAAAAAGGG G G GAGGCGGCAAGAGGGAGGGCCAAGGAGGGGAAAAGGGGGA GAACGGAAAAAGGAAAAAGAGGAAAAAACAGAAAAGAAGAAG GAAGGGGAAAGGGCCAAGGAAAAGGAAGAAGGAAAAGGAAGA G G GAAAGCACAAGAGGCAGGGAAGGGGGAGGGGAGGAGACCC CAAA A A GAAGGGGCCAAAGTAAAGGAGGATAGGTTCCGAACB
 C A G G A A G G G A A G A G A A G G A G A GAA $A$ G G GA A A A A A G A T TA G G G A A A A G G A A A GAA $A \operatorname{GA} A \mathrm{~A} A A A A A G A A G G G G G G C G A A C C T T G A A G G$ G G GAGAAAACGGAGGCCGGAGGGCCGGAACCAGGAAAGAAAA A A A GAGGCCGAGAACAAAAAAAAGGAATTCCAAGGAACAAAA C G G A G A G G A C C A G A A G G G G C C A A G G A A G G G GAA A GAAAAAA A C T T GAGGAAAGAAAGAGGGAGGGGGAAAGAACCAAAAGAAAG A G A C C C C A A A A G G A G G A A A A A A A A A C A A A A A A A G G G A C A G A G GAACAGGGAAAGGAGGACCAAGGAAAGGGAGAGGAGAAGGGG
 G GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACAAAA $G C C A A G G G C G A G A C G G A A A A G A C A A A A G G A A A A A C A G G G G G A$ A A A G A A G A G G G A A G G A A A A G G A A A G G G A A A A $\mathcal{A} G G G G G G A A G G$ GAAAGGAAGACGACCGGGGGGGGAGAAACGAGGGGAAAAGGG CAGGGCAAGAGGAAAAGGAAAGAAGGGAGCAGAACCCCCGGG ACAAAAAGGGGAAAAGGGGAAGGAAGGGGGGAAGGAACAAAA $A \subset C G G G G G G A A A A G G G G A A A A G G A A G A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGAGAAGAGGGGAGGAAGGAGAAGGAAAA A GAG $\mathrm{A} G \mathrm{G}$ GAAGAAAGAGACCCCAAAGAGGAAGAGAGAAAAGAC C GAGGGGGAGGAGCAGAAAGGAGGGGAGGAGAGCAGAAGAAG ACCGAAAGAAAGAAGACAGAAAAAGGGCCGGAGAAAAAGAAG $G G A A A C C A G G G G G G A A A G A G G A G A C G A G A G G A A A A G G G A A G G$ A G A G G GA $\operatorname{G} G C C G G A A C G G G G G A G A A G G G G A C G G G A A G G A G A G$ G G G A G G G G G G G A A A G G G G G A C G G G A A A GA GAAAA A G G A G A C C G GAAAGCAGGGAAGCGGGACACGGAAAAGGAAAGACGAGACCA AA $\operatorname{A} A \mathrm{~A} G A C C G G C C A A G G G A G A G G A C A G A A A G A C A G G A G A A A A$ ACCGGAGGGAGAAGAAAAGTTGGAAGGAGGAAAGGACAAGAA A A A A G G G CCCCGGGAAAGGAAGGAGGGAAGGAACCAAAAAAG GAAGGGGAGAAGGGGGGGGAGAAAGGGGGCAGAAAAGAAAAG GAAAA $A$ A $A \operatorname{A} A G G A A A A A G A G A G G G G A G G G A C C G G G G G G G G G G G$ G G GAGGGAAGGGGAAGGGGAGGGGGAAGGCCGGTTGGAAACA A A A A A GAGGGAAAGGAAGGAAAGAAGAGGGAAAAACAAAAAG GAGGGGGGGAACAAAAAAAGGGGAAGGGGGGAAAACCGGCCC CAAAAAAGGGGAAGGAAAAGGGGAAAAAAAAAAGGGBAACAA A A A A A G G G GAAGGGGCCAAAAGGAAAAAAAAAAAAAAAACCB GAAGGAAGGGGGGGGGGGGGGAAGGAGGGCAAGCGAGGGCCA

AAACCAAGGAAGGAAAAGGGAAAAGAACCAAAGCCAAAAAAA
 $G G G G A C C G G A C G A A G C C G G C C G G G A A G A A G G A G A A G A A A A G G$ AAGGGGAACGAAGGGAAGAGACCCAAAGAGGGGAAAAGAAAC CAAAAAAGAGAAAAGAAAGAAGGACCCGGGAAA GGGGAGAAC GAGAGACAGAAAAAAAGAAGGGGAGGACAGGAAGGAGGAAAA $A G G G G A A G A A G G G A G G G G A A A G A A A G G C A G G A A G A G G G G G G A$ C G G G GAGCCGGCAGGAAAAAAGGGGAACCAAAAAAGGGGGGA A G G G G G A C C G A C C C C G G G A A G G G G G GA GAAAC CATAAG G C C A A G G G G G GCCGAGGAAGGAAGGAAGGAAGGGGAAAAAGGAAAG
 GAATAAGAGAGAAAACCAAAGAGTACCGAAAAAACAAA GAAA A A A A A A A A A A GAA $A$ GAGAAAGGGAACGAGAAAGGCAAGAAAA G G G GAGGGGAGGAAGGAAAAAAAAGGCGCAAGAGGAGGGAGAA A A G G G T T G G GA GAGAGGAACAAGGGAGGAATAACCAACCGCC C GAAA A G G G G G G GAA $A \operatorname{AGGACAAAAAAGGAGGAAAAGGCABAA}$ $A C C A G G A A G A G G A G G A A G A A G A A G A G G G G G G G G G G G A A A A A G$ G GACAAAAACCGGGAACGGAAAACCAAAAGGACCCGCAACCG GAGAAGGGGCAAAAGAGACGAACGAAGCAAAAAGAAGGGGGC
 A G GAAAAAAGGGGAAAAGAGGAAAAGGACACGAAGAGAGAGA A A GCGAAGGGGGGCCAGGAAAAGGGCCAACAGGAACCGGGGG G G G G G A A A A A A GGCCAAAAAAAAGGAACCAAGGAAAAGAAAA A A A A A A A A GAGAGAGAGGGAAAGAGAGAAAAGAGAACAAGAG $A G G G G A A G G G A G G G G A A G G G G A G A A G G G G G A G A A A A A A G A A G$ G GAGGGAAGCCAGAGGGAAGGAAAAGGGAAAGAAGAAAAAGA
 GAACCAAAAGGAAGCAGGGCCGGACGAAGAGAGGGGGAAAAA AA GAACCAACAACAGGAAGGGCAGGAAAAGACACCGAAGGAA G G A A A A T G GAA $A \operatorname{GG} \operatorname{A} A A G G G G A A G A G A G G G G G G G A G A C C C G G A$ A A A C A $\mathcal{A} G G G G G G G A A G G G G G G G G G G G G A A G G G G C C A A B A A A A$

 GAAGGGGGAAGGAAGCAAAAAAGGAAAGGAAGGAAGGAAACT T GAATGGAAGGAAAAAAAAAAGGAAAAAGAGAAGGGGAGGAG A A A G G G G G G G G A G G A C A A A A A A G C A A G G G C C G G A A C C G G G G T TAAAGGGCAAACCCAAACCGGGGGGGAGAAAGGAAAAGGGGC CAAAAAAAAAGAGAAGGCCCCAACCGAAAAGAAGGAAA GAGAA A A A A A G G A A G G A A A G CACAGGGGAATTAACCGACCGGAAACG GAA A A A G G GAGCAGGAGAAGGAAGGACAGAGGGAAAACAAAC CAGAGAGAGCAAGGAAAAGGGGGGGAAGGGAGAATGGGGGGG A A G G A A GAGGGAGGAGAAGAAAAAGGAAAGGAGCCCCAACAA AAAGGAACAAGAGGGAAAGGAGAAAAATAGGAACCGGAAAAC $C \subset C A A A C G G A G A A A A A A A A C A G G G A G A G C A G A G A G A A G A A A C$ C G GCC G G A A A A C C G G G G G G A A A A G G A A A A A A G G G GAAAA A G A G GAGGGAAAAGAAAGGGGGGACCAAGGAAAAAAGAAABGCCG GAAGGAAGGAAGGCCAGAAGAAAGGTTAAAAGGGGCCAGAAG GAAGGGGAAAAAAAAAGCCGGGAAGGAAGAAGGCGGGAAAAC $C \subset C \subset C C C A G A A G G G G C G A G A A G G A A A G A G C C A A A A G A A A G G A$ GAAGGGAGGAAAAGGGAAGCAGGGAAGACAGAGAGCABAAGG G GACCGCAAAGGGAAAAGGAACAGGAAAAAGAGAGAGCAA GA GAAGGAAAAAAAAAAGGGGGGGGGGGAGGAAACCAGGAAGGG GACGACAAGCCGGGAAGAAAAAAACAAGGGGAAAAGAAAA G G GTTGGAAAACAGGAAACGAAACCAAGAGGGGGGGGAAAGAGG GCCAAGGAGAACGGAGATTCCCCAAAAGGGGGGGAGGGAAGG GAAAAAACCCCAAACGGGGGACCAAGGGAGGAAGGGGGAAGA $A C C A C A A G A A A G G C A G A A T A G G G A G A G A G G A G A G G A A G G G G G$
 A GAAACCAAGGACAAAAAAAGAGCCAAAGCCAAGGAAAAAGG

AACGAGGGGAAGGCAAAAAAAAAAAGGAAGAGGAAAGGGCCG $A G A C C G G G G A G G G A A A G G G A C G G A G G G A G A A A A A T A G G A A A A$ $G G A A A A G G G A G A G A G A A G A G G G A C C A A G A G G A A G A G G A C G G A$ G G G GAAAGGGGGGGAAAAAAGGGACTTGAAAGAAAAGAAAAA G G G GAAAGGGAAAAAACCCAAAACCAAAGGGGGGGGGGGGGA GCAGGGGGGAAGAGAAAAGAAGAGAACGGCAAGCGGAGGGGA A G GAACCAAAAGGGGCAAAGGCCAAAACCAGCCCCGAAAAAG GAAAAAGTAACGGATACGGACAAGGGGGGAAAAGGGG
GAGAAGAGAAGAAACCGGGGGGGGGAGGAGAAGGGGGAAAG GAAGGAAGAAGAAGGGGGAAAGGAAGAAGGAAGGGAAAACAG G GAGAGGAAAGGGAACAGAAAAAGGGGGGGGCCAAAGAAAAA GAGCAGAAAAAGGCAGGGGGGGGCCCAGGAAGAAGGAACAAA CAAA A GATTGAGAGAAGGGAGAAAAGAAGCCAGAGAGAAAGAG A A A GA $A$ A A $\mathcal{A} G G G G A G G G G G G G G G A C G A A G G G A G A A G G A G A C A$ GAAATAGAAGGAGAAAAAAAGAGAAGGAGAGGGACGAAAACB A G GAGCCAAGGAACAGGGGGAAAAGAAAGACCCAAGGGAAAA A A A C CAAA A $A \operatorname{A} A A A A G G G G G G G A A G A G G G G A G G G G G G C A G A A$
 $A G G G A A G G G A G A G G G G G A A A A G A A G G G G G G G G G A A A G G A G G G$ G G GAA A G A A A A G A A A G GAA A GAAAAAAGAAAGAAAAGGACGAA G GAGAAAACGGGAGGCAAGAAAACCGGAGAGAGAGACGGGGG GCCAGAAGGGGAAAAAAAGAGAAGAAGGGGAAAAAGGAAAAG $A A C C C C C G G G G A G T T G G G A G G A G A A G G A G G A A G A G G G G G G A A$ C G G G G G G A A A GAGAGGGAAGGCCAAAAAACCAAAAGAAAAAA A A A A A A A A A G GAAGGCCGGAAAAGGGGAGGGGGAAAGGAAAA GAGCCACAGAACAGGGAAGGAGAGGACAAGGAGCCGGAAGGG G G GAGAGAAGGAAGGGGAAAAAGACAGGGGGACGGGGAAGAA GACGGAAGGAACCAGAATTAAAAGGGGGGCCGGAAGGAAGEG GAGGGGAAACCCCGAGGGAGGGAGGAGAGGGGAAGCCAAGGG GACCCGGAAGAACGGGAGGGGACGGGGAAAAAGGGGGGGCCC C G G G G G G G G C C A A C C A G C C A A A GAGAAC CAAAAA A A G G G G G A GAAAACGGGAAAAAAGGAAGGAGGGAAGGCCAAGAGAACACG G GAA A GAA $A \operatorname{AACC} C A G G G G G C A A G G A A G G G A A G G A A A G A G A G A$ G G G G G C C G GAC G G G G G G A G GACC CACCAGACAA G G G G G G C C G GAGGGAGGAACGGAAAGCCGGAGAGGGAAACAGGGACBAABA A G G G G A A G G G G A G A C G G A A G G A A C C A A G G G G G G A G G A G G G G G G GAGGGGGAAA $A \operatorname{A} A A G A A A A A A A A G G G G G G A A G G A A G G G G G G G$ G G GAA $\operatorname{G} A A C G G A A G A A C G A A A A A A A A C A G A A G A G A A G G G A G G$ GACAAAAGGAGGACCAAGAAAGGAGAAAAAAGGAGAGAGGAA GAGAAGGAGTTAGAGACAGGAGGGACCAAAAGGAGAAAACAA G G G A A A A G GAGAAGACAAAAAAGAGAGAAGGAGAA GAGGGGA
 GAGGGGACCAGCCGGAAAGGGAAGGAAAAGAGGAAAAGGGGA A G G G A A A A GAA A A A A GAGGGGGAAGAAGGAAAAGAGAAAAGT $T G G C A A A A G G G G A G G A A A C G G G G G G A A A A A G G G G A A A A C G A G$ CAGAGGGAAAAAAAGGGAGCCAAGGCCAAAAAAAGAGAACAA A GAACGGGGGGAGAAAAGGCAGGCAAAGAAGAAAAGGCAGAAA TACGGGGCAGGGGAAAAGGGAAAGGGGGAGGAAAACCGGAGA A G G G GCCCCAAGGCCGAGAGGAAAGGCGGCCGGGAAAGGTAC CAGAGAAAGAAGGGAAACCAGAGGAAAGGCCACAAGCBAGAA A GAGAGGACCAGGAGAGAGAGGGAGAGCCCCAAAAAAGGGGG $G C C A G A A A A G A G G A A G G A A G A G G G G C C A A G G A G A A A A G A A G A$
 GAAGGCCGACCAAAACCAAAACCAACAAAAGAAGGAGGGAAG G G GAA $A \operatorname{GAAA} C A A A A G G A A A A G G G A G A A A G G G G A G A G A G C A C$ A G GCCGGCCAAGGGAAAAAAAGGCCGGGGAAAAAAAAAAAAA A A A G G A A A G G G G G G GAACCGGAAGGGGGGAGGAGGAAAAA AA GCCAAAAAAAACCCCAAACGGGAAAGGAAGAAACCAAAGGAG AAAGAAAAAAAGGAGGGCCCCCAAAGAGGAGGGGGGAGAAAA

GAGGAGGGGAGAGGGGAAAATGGGGGACAAAAAGAGGAAAAA C GAA A A A A A G G G GAAAACAAACAAGAACACCAGAGCCACAAA A A A A G GAA A A A GAGGGGAAGGGGGGGGGGCATAAACAAACCG G GACAAAGGGGGGGGGGAAGGGGAGGGGGCCAGGAAAGAGGG G G GAGGGGGAAAAGAGGCGGGAAAACCGGGGCCGGAACAAAA $A C C A A G G C C C C G G A G G A C C A A G G G G G G A A G G C C A G G G A A G G A$ G G A G G A A G G A G G G G C A G G G G G A A A A G G GAC CAAA G GAGCCGGG GGGCAGGCAAAAGAGACGAAGGGAAAAAACCGGAACAGACAG G A A A A A AC GAAGGGAAAAACCAAAAAAAGGGAAAAAAGACCC $C \subset C G A C A A A G G A A A A G G A A G G G G A A A A G G A G A A G A G A A C A A C$ CAAGGACGGGAGACCGGAGACAAGGAAGGCCGGGAGAGAAAG GAAGGCCAGAACCGGGGAAAACCGGGGAGCCAAAAGGACTAA A A A A A A A $\mathcal{A} G G G G G G G G A A G G A G A G G G A A G G A A A A A T T C A A A G$ G G G G GACAAACAGGAGGAAAGGAGGAGAAAAAGGGAAGABGA C A G G A G A G G G A A A A A A A A A A C G GAAGGGGGATTAA GAAAA GA CAGGGGGGGCCCCAAAACCGGTAGGAAAACCAAAAGGCAAAA A G G A A A A C C A A A A A A A A G G A A A A A A G G G G C C G G G G G G G G C C G GAAAAAAAAGGGGGGGGGGGAGAAAAAGGGAGGGGGGAAAAA AAGAGAAGGCCAAAACCAAACAAACCCGGCCAAGGAAAAAAG G G GAA $A$ A $A G G G A C C A C A A A G A A G G G G G A A A A A A G A A G A G A A G G$ GAGAAATGGGACCGGGGGGGAACGGGGAAGGGGCCCCGAAAA A A A A A A A C C G G G GAGGAAAAGAGCCGGGGAAAAGGAAACAAG GAAGGGGGAAGGGGGCGAAAAGAAGCCAAGGGGAGAAGAAGA A A A C CAAAAGGCCAAAAGGCAGGAAAACCCCGGGGAAGGCCG A CAG GCCAACCAGGAGGAGAGGGAGGACCGAAACAGAAATXG G G GCAAAGGGGGGAAAAGGGGAAAGCAAAAGAAAAAAGACCA GAAGGCAATAAAAGGGGGGACAAAAAAAAAGCCAACAAGTAA GAAAAAAAGAGGCGGGGAAAAGAGAGGGGGAAAGGAGAAA GA A G G G G GAACAAGGGAAAAAAAGGAGCGGAGAAAAGAAGGGGA AAAAAGGAAGATAAGAACAAAAAAACCAAGGGGAAAACAAAG GAAAAGGGGAAGGGGCCAAGGGGAGAAGGAAGGAGAACAAGA GAGGGAAAGAGGACAGAGGAAGGGGAAAACCGGAAAGTXGAA G G G A A A A G G G G G G G GAA $A \operatorname{GGG} \operatorname{GA} A C C C A C C A G A A G G A G A A C C G$ G G G G G G G A A A A C C G G G GAGGGAAGGAGAAGGAAAAAGAAAAA
 GAAAAGGGGAAGGAAAAGGAGAGGGAAAAAAGGAAGGGGCCA A G GAAAATTAAAGGAGGGAGGGACAAGAAAAAGGGGGTXAGA AAAGGGGGGGGAACCAGAAAGCAAAGGAAAAAAGGGGAAACB G G G G G A G G G G A A A G GAA $A \operatorname{GGGAAACGAACXAAAAGAAAAAACA}$ CACGGCCAGAGAAGGGGTTAAAAAAAAAGGGCCAGGGAAGAA $G G G A A C G A A G G A G G G G G A A C C A A A A G A G G G G C C G G G G G A C G B$ A A A G G A A G G A A G A G C G A G G A A G G A A A G G G G G A A G G G G G G A A A G G GAGGCGGGAGAGGAAGGGGAGAAGGAACCGGAGAAAGAAA G G G G GCAAGCAGGAAGAAAGGAGACCCAAAAACAAAAGAAAG G GACCAGGAACGGACCCGGGGGGAAAGGGCCACCAAGGAACA GAGAGAACCCACAGGAAGAGGAAGGAGAAAAAAGGGGAAGAG GAAAAAATTGGGGCGAAGAAAAAGGAAAAGGGGAAAAGAAAG GAA A A G G A A A A G G G G G G G G G G G G G G G G A A G GAAAAA A A A A A $G$ GAAGGAAAAAACCAAAAAAGGGGGGCCGGAAGGGGGAGAGAA G G G G G G A A G A A A A A A C C G G G G A A A A G G G G G G G G G GAAAAAAA $A G G G A G G C C A A G G G G A A C C A A G G G G G G A A G G G A A A A G G A C A C$ A G GAGAGACGGAAAGAAGGAGGAAGGGGGGGCAGAGAAAACG GAAAAAGCAAGCCAGGGAAAAGGTTGGGGGGGGAAGGCCGGG GAAAAAGCCAGAAAACCCCGGAACCGGGGAAAAGGGGAAGGA A A A A A A A G G G G A A A G G G G G GAGGAGCCAAGAGAGAGAAAGAG A A A A A A A G G G A G GAGCAAAGGGGGGGGAAAAAAAGCCGAAAC CATAGGGCCGGAAAAGGGGGGCCAAGAGGCCAAAACCGAAGC C G G G G G G G A A CA A G A A G A A G G A A A GAAAAAC CAA G G C CAA G G A $A G G G G C C G G A G A G A G G G G G A G G A A A G G C C A A G G G G G G G A A A G$
$G C \subset A A G G A A A A C G A A G G G G C C A A A A A A A G A G A A A A A A A A G G A$ A A C G G G G A A A G GAGACCGGGAGGGAAACCCGGAGAGAAAGBA AAAAGGGGAGGGGAAAACAAAGAGGAAAAAAAGCAGAAAAGAG A GAGGAAGAAAAAGGAGGGGAAGCCAAAAAAAAAAGGGAAAG GCCGGAAGACCAAAGGAGAAAGAAGGGGGAATTGGGGCAGAC C G GCC GAAACAAAAAAATTCACAGACCGAAGAGGAGAAAAAG G G GCCAAGGAAGGGGGGAAGGGGCCACGGCCGGAAAABACAG AAACCAACCAAAAAAGGGGCCACGGAGCAGGGGCCGG
$A G A A G G A G A A A A C C G G G A A A G G A G G G G G G G G G A A A A G A A A A$ G G G G G G G G G G G G G G G G GC C A A A A G G G GAGGAGGAA G GA A A A G GACCACAGAGAGGGGGGACAAGGGGCCAGAGGGGGAAACCCG GAAAAAAAAGAGCGGAAAGAGAGACAAGGAGAAAGGACACCC
 $A C C G G G G C C G G G G A A A A A A G G G G C C G G G G G G G G G G C C G A A A G$ GAAGGGGAAGGCCAAAAAAGGCCGGGACCGGGGAAGAAACAA C GAACGAGGCAAAAAAAGAGGGGGGGGAGGGAGGACAGACAA CAA $A \operatorname{GAAA} A G C G G C C G G G G C C A G A A C C G A A A A C G A A G G G G G A$
 AAAGGGAAGGGAAATAAAACAAAAGCCGAAGAGAACCGAAAG GAACCAGAAAAGACAAGAACGGAGAAGAGCCATAACCAAAAC CAAGGAGGAAGAGAGAGGGAGAGGAAAGGAGGAGAAGAAAGG A A G G GAGACGGAAACGAAAGGGGAAGGAGAAAAGGAGAAGAA A GAGGCCGGGAGAAAAAAGAGAGGAAACAAGCCCAGAGAGAA ACCCCCCGGAGGAGGAGGGAAACAGGGGAACGAGAAAAAAAG A A GAA A GAGGAAGAAGGCCAGCCGGAGAGAGAGGGGGAGGAG G GAAAGAGGGGGGAGGGAAAGAGAGAGGAGGGGAAAAAACCG AA $A$ ATGGGAAA $\operatorname{T}$ GAGGAACAGAAAAAAGAGGAGAGAGGGAAAG G GAA $A \operatorname{GAA} A A G G G C A G G A A A A A C G A A A A A A G G A G A G G G G G G G$ G GAGGAGGGAAGGGAAGGATTAACCAAGGGGAAAAAAAAAAA A GAGGGGCCGGAAGAGGGACCAAGGAGGAGGCCGGACGAGGA A G G G G A A G G G G A A C C A A G G A G G G A G G G A A A A C A A A G G G G A G A $A G G G G G G G G G G G G A A G G G A A A A C A G G G A G A G A G G G A G A A A G A$ A G G G G GAAAAAGACCAGACAAAAGGCCGGAAAAAGGGAGAAA $A G G G G G G A G G A A G A G A G G G G G A A G G G G A A A A A C A A G G A G A A G$ G G G G GAGGAGGAGGGAGAAAAGGAGAGAGGACAGAGACAAAG G G GAAA A T T G A A GCCGGGAGAAAGGGGGGCCGGAAGGAAAAA AAGAGCACAAGAGGAAACAGAAAAAAAGAAGAAAACCGGGGA ACCGGCCGGGGAAAGGGGGGGACAGGAGGGAGGCCCCAAAAC $C C C G G G G G G G A G G A A G G A A G G G A A A G A A A A G A A A G A C G G C C A$ CAGGACCGGGGCCACGGGGGGTAAACCAAGGAAGBAGGAACA A G GA GAAAGGGGGAAAAAAGGGGAAGAAAAAGGCCAAAGAAA GAAAGCCGAGGAAGGCCGGAAGGAGCCGGAAGAACGAAGAAA $A C C G G C C A A A C A A C C G G A A T A A A G G A C G A A A G A A A A G G G C C G$ G G G A G G G G G A T A A A C G A A G A A G G G G G G G G G G G G A G A A G A A G T
 C GAGGAAGAAAGAAGACAGCAGAAAGAGAGGGAGGAAAAGAA A A G G G GAGGGGCCAAGGGGAGAGCAAGACAGACAGAAGGGGA A GA A A G G A G G G G G A A G G T T G G A A G GAAAAAAA A A A A A G G T T G GAAAAGGGGAATTAAACGGCAGAAGGGAACCGGGGGGTTAAG GCAAAAAAAGAAAGGAGAAGGGAAAAAGGAGAAAAAAAAGAA A A G G G A A A G G G G G C C G G G G A G A A G GAGGGGGGGAA GA GAAC $\mathcal{A}$
 TAAG $A \operatorname{G} G \mathrm{G} G A A \operatorname{A} G A A G G C C A A A G C C C C A G G G G A G A A G A G G A G$ GAACCAGCCAGAGCCAAGGAACCGGGGAGGGAAGGCCGGAGA G G G G A A A A G G GCC GCGGAGACAAAGGGGAGGGAAGCAAGGAC C C C A A G G G A G G GACCGGGGGGAGGGAAGGGGCAAGAAGAAGG GAAGAAGGAAGAACCGACCGGAGAGAGAAAAGGAAAAAAAAA CACGGAAAAGAGAAGGGGGAAAAAAAGAAGGAAAAAAGAGAA AAAAAAAGGAACCCCGGAAGGAAGAAGAGAGAGAAAACAGAG

GAGGGGGAAGGGGAAGGGGAGGGGCGGAGGGAGCCGGCAAAC
 GACAGGAAAGGAAAAGGACAGGAGACCAGAGCCGGAAGAAAG GAGAAAAGAGAAGAGGAACAAAAGAGAAACCGAAGCCGGCCA
 ACCAAAAGGGGAAGGGGCCAAAAGAGGGGAAAAAGGGAAAAA A G G G G A A G GAAAAAACCAACCGGGAGAGGAACGAAGAAACAC $C \subset C A A G G G G G G A G A A A A A A A A G G C A A G G G A A C C C C A G A G G G A$
 GAAAAAGAGGAAGGAAAGAATGGGGAGAAAAAAAAGGAGAAG G G GAGGAACAAAGCCGAGAAAGAAGAAACAGACAAAGAAAAG GA $\operatorname{G} A A C C A A G G A A A G G G G G G G G A G A A A C C G G A A A G G A G A A G A$ AAAAGGAAAGAAAAGAAAAAAGGACAACGGGGGGGGACACAG G G G G G A A A A A A A G A G TAAA A A GAAAATTAACAACCGGCAAA G GAGGGTACCGGGAGAGGAAAGAGGACCAGGGAAAGGGAACCT TGAAAGAGGAAGAGAAGTAGGAACAAGAGCAAACCAAGAAAG GAGGGACGGAAGAGGAGGGCCGGGGGGAAAAGGAAAGAAAGG A A A A G A A A G G G A A A G G A G G A G A A A A CA G G G GAA GAA G GA G A A G G G GAGGGAAAAGAAGGAAGGAAAGGAGAAAAGAGGGCAGAC C G A A G G G A C G G G G A A A A $\mathcal{A} G G G A G G G A A A A A A G A A A G G G A G A G$ G G G GAGGAGGGCCAAAGACGGAAGGGAAAGGAGGAGAAAAAA ACCGGAATAAAGGGAGAAAGGGAGGGGGGGGAAAAAAGGGGG GAGCACAGAGAAAGGCCGGGGAAAAGGCCAGAAAAGGCCCCA G G A G G A A G G A G G G A G G A A G G A G G A A A GAAAAA A G G G C G A GA G A GAAGGATAGGGGAGAAGAGCAGGCCAAAAGGAAAACACCGGG G G G G G A A A A A A C C G G G A A G A G G A G GAGAGGGGGGGGGAGAA G GAGAGGAGGGGGAAACCAGGGAACAGAGAGGAGCCGGGGGAG A G G G A G G A C G A A A A A A A A A A A G G G G G GCC GAGAAAGAAAAAA A G GAACAGAAGGGAGAGAGGGAAAAAACCGGGGAAGGAAAAG GAAGGGGAACCGGGGAAGGAAAAAAGGAAAAGGCAAAAAGAG GAAAAAGCAAAAGGAAAGGGGGAGGGGGGGGAAAAGGGGGGA $A C C A A A A A A G A G G A A C C G A G G G G A A A A A A A A G G A C A C A A G G G$ GAACCGAGGAAGGCCGGAAGGGAGAAGAGGATTGAGGAGGGG A GACAAAGGAAAGAAGGAAAAGAAAAAAAAAGGGGGGGGTTC C C C A G G G C A C A C C C C G G C C G G G G G G A A C C G GA A A A A A G G G G A A G G G A G G A G G A A C A C G G A A A A G G A A G GA A A A G G G G G G A A A G G GAGGGAAGGAGAAGGAGGGAAAAGGAAAAAAGGGGCCGGGGG G G G G GCC G G G G G G A A A A A A A A G G G G G GAGGGC C T TC C G GAA G GAAGGCAGACCCCAGGGGGGAGGGGCCAACCAAGGAAAGAGG G G G A A G GCCGGGGAAAAAAGAGAGAAGGGAAAAGGAGGAAAA GTTGAAACAGGAAGGAAAAGGCAAAGAGGACAGAAGAAGCCG G G G G G GAA $A \subset C C A G A A G A A A G A A C C G G A C G A A A G G C A A A C C G$ G G G A A A G A GCCAAGGGGGGGGGGGACCGGGGGGAAGGGAAAA A G G G G A A G G A A A A C C G G A G C A G G G G G G G G A A G G C A G G A G A G A $A G G A C A G G G A A G A G A G G G A A G G G G G G G G G G G G A G G G G G G G G G$
 GAAAAAGCCGGAAAAGGACGGAAGGAAGAAAACAAGGCACAG A A A A G G G A G G G A A G G G G GAGGCCGGCAAGGAAGGGAGAAAAA GCAGGAACAAAAACCAGAGGGAGGGCCAAGGGGGGGAGGGGG G A A A A A A G G A G G A C G A G G A G G G G G G A A A A G G G G A A G G G A G G G A G G G G A A A G G G A A A GAGGGAAAAAGCGGACAAAAGGGAGAAA
 GAGAAGAGGAGCCCAGACAGGGGAAGGAACCAAAGAAAGABAA G GAGGAAGGGGGGGGCAAAGAAAAGGAGAGGAAGAAGAGGGC A G A A A A G A CAA GAAGCATTACGGCCGAAAAAAGGBAAAAGEG A G G A A C C A A A A G G G G G G GAGGGAAAGACCGAGGGAAGAAG G G
 A A G G G A G A G G A A A G A G G A A A A A A G G G A T A A A A G A A GA GAA G C CAGAGAAGGCAAAGGGGGGGGAGAGAGCAAGGGCGGAGAAGG

GAGGAAAAGGGAAAAGGACGGCCGGGGAAGGCCAACCGGGGA G G G G G G G A G A A G G G G A A A A A A C A G GAGGA GAA A A G G G A A G G G G G G G G G G A A G G G G A A A A G GA A A GA $A$ A A A A CA A A G G G G G A A G G A AAAAAGGCCGACCGGAAAACCGGGGCCGGAGAAGAGGGAAAG G GAGGAGGAAAGGCCACACAAAAAAAAAACCGGAAAGAACAA GAACGAAAGGAGGGGAAAAAGACAACCGGGGAAAAAAGAAGG GA $\operatorname{G} A A \operatorname{A} A C C A A G A G G G G G G G G G G C C A A A A A A G G A A G G C C G A G$ A GACCGGGGAAAGAGCCAGAGGAAGGGGGAGGGGGAG
 GAGAGGGGGGAGGGAAAGGTTAAGAAGGGGGAGAAAAAAGAG GAGAGGAGGACAACCACGAGGGGGGAGAACCAGGGGGAAAAA GAGAAACAGGGAAAGAAGGAAGGAAGGGGAACCGGAACCGGG G G G G G GA $\operatorname{G} G \mathrm{G} A \mathrm{G} G A A C C A G A C A G G A G G A A A A A A A A A A G G C C A$ G GAGGGGGAAGGAGGGGAACCAAAAGGACAAAAAGGGAGGGA $A C A C C A A A A A A A A G G A A G G G G A A A A A A G G A A A A A A G G G A A A G$ G G GAAAAGGAAGGGGAAGGGGAAAAAAGGAAAACCGGCAAAA G G G A A A ACCAAAAAAAAAAAAGGAAAACAAAGGGGGGGAAAA AAAGGAAAAGGAAAAAAGGCCAAGGGGGGAAAAAACCAAGAC CACGGAAAAGGAAGGGGAAGGCAGGGAAGAGGGAAAGGAGGC A A A G G G A A A A A T T A A A G G G A A G G A T G A G G G G C C G G A G G G G C G GAAAAAGAGGAAGGGGGAGGAGAGAAGGAAAGGGAAACCGGG
 $A C C G G A A C C A A G G G G A G G G G G C C A A A A A A A A A A G G G G C C G G G$
 G G G G G A G A GAGGACAAAGACAAGGGAGAAAGAGGGAAAAGAG GCCGGACGAAGAAAAAAGGAAGGAGAATTGGGGAAGAGAAAA GAAAGGGGAAAGACCGGAAAGAAAAAAGGGGAGAACACAAAG G GAAAGGAAAAGGAACAAGAAGGAAAACCAGGGGAAACAGAA
 A G G G G GAA A A A G G G GAAGGCCACAATTGGAAGGAAAGGGGGA A G A A A C A G GAACCGGGGAAGGAATAGGCCGAGGAAAAAACCC CAAAAAAGGGGGGGGAAGGGGGAGGGAGAAGAAAAGAAGAGAA A A GAGAACCGGGGGGAGGGGGGGAAAGAAAAAAGGGGCAAAG $A G G G A A G G G A A G G A A A A G G A G G A A A A G G G A C A A A A G G G G G G G$ A A A A G G A A GAA $A$ A A A G GAGGCCAAGGGGACAGAGAACCAGGCA A A G A G G G G G G G A A A A G G A G A G C G A G C C A A G G A G A A A G A G G G A A G GA A A A A GAGAGAGGAGAAGAAGGGGAGCAAGGGGAAAGAA AGGCCGAGAAGCAGGAAGAGAAAGGAAAGAAGAGGAGAAAAA A A A A A G G A A G A A CATCCGGGGGGCAGAGGGGAAAAAAAAAAA A GACAGGAGCAACCAAAGGAAAAGGAAGGGGAAGGGAGACAA $G C A G A A G G G G G A A G A C C A G G A G G C C C C A A G G G G G A A A A A A A G$ G A A A A A A A A A A C C G GAAAAGGAAAAAAGGAGAAGACC GAA G G $A C C A A A A A A G G G G G A A G A G C C G G G G G G A A A G G A C A A G G A G G A$ A A G G G A GA $A$ A $\operatorname{A} G A A A G A A A A A G G C C A A G G G C G G G G A A A A A C$ C G G G G GA GAG G G GAGAAAAAGAGAGGAGGAGAAGGGAAAAAA ATTACAGAAAAAAGAAGAGGAAGCAAAAAAAAGGGAGAAGAA A A G A A G G G G G G A A G G A G A G A A A A A G C CAAA A A A A A A G G G G G G G GATACCAAGAGGAGGAGGAAACCCAAACAAGGGGGAGAGGC AA G G GAAA A A A A A A A A A G GAAAAGGGGAAAACCGGCCA G GAA A A G G G A A C C G G A A G GA A A A GAA A A G C CAAAA A C C G G G G G G C C G G GAGGAAAGGGGAAAAAGGCCGGAGAAAAAAAACCCACACAA A GAA GAGAAAACCAAACAAGGAACCGGCCGGABAAGGGGGGG GAAAGAGCCCCAAGGCAGAAGAAAGGAAGAGGGAAAAGGGGA

 G GAGGAGCACAAAGGGAAAGGGGAAAGAAGGGABAGGGAGAC A G G A A A A A A G A A A T T A G G G A A C C C CAAA A G G G G G A GA G G G G G GAAGGGGAAAAAGCGGGCCAGAAGAAGAAAACCCCGGGGCCB G G GCCGGGACCAAAAAAGGAAAAGGGGAAAAAATTAAAAAAA

A A A G G G A A GAGGGAAAAAGAGGGGGGGACAAAGACGAAAGAA A A A G G A G A C G G A GCC G GAACCAAAAAGGGGGAATTAAACCCG A GACCAAAAGGAAAAAAGAATCCCCGAGGAAGGAAACTXGGG GAGAAGGAAAAGAAAGGAACCGAAGGAAGGGAAAAAAAAAAA A G G GAAAGGGGAAGGGGAAGGCCGGGGAACAAAGGGGAACCC C GACCGAAGAAGGAAGGAAGGGGAAAAGGAAAAAAGAACCCC $A C A A G C A G G A A A G G G G G C C G A A G G G G G G C G G C A G G G G G G G G G$ GAAAAGGAAAGGACCAAAACCAGGGAACCGGAAAAACAAACB A A G A C A G G A A A A A G G G A A A C C G G G GAGGACCGACAAATAAAA G GAGGGGAAAAGGGGACGGGACAAAGAGGAGAACCAAAAGGC C G G G G G G G G T T G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G A A A A G G A A G G G G A$ A $G \mathrm{G} G \mathrm{G} C \mathrm{C}$ CAAAAAAAAGGGGGGGGGGGGAAGAGGAACAAAAAA
 CAAGGCCAGAGGAACAAGGAAAAAAGGAGAGAAAGAAAAGGG GAAAAAAGGAGCCGAAAGGAACAAGAGGAGAAGAGGGAA GAA GAAGAAAGAGGAACCGAAAAGCAGAGGACCAGAGGGGAAAAA A A A A A A A CAAAAACCACAAAAAAAAGGGGGGTTAAGAACA GA G G G G A A C G GAA $A \operatorname{GA} A \operatorname{A} G A G G G C A G A G G G A A G G G A G G A G A G A A$ GAAGGGAGAAGAGAGATGAGGAAAGCAAGAGGGAAGAGAAAG A G G G G A G A A G G A C A A A C G G GAGGGGGGACGGAAGGGGAAAAA AAAAAAGGGAACAGAGAAAGAGGAGCACAAGACAAGGCGGGC A G G GAGGGGCCAAGGACAGGAGGGGAATAAGAGGAAGAGGAA AAAAGGGCAGACCATCAGGGGAAGAGGAGGAGGAAGGAAAAG GAAACGGGGAAAAAAAAAAAAAAAAAAAACCAAAAGAAAGAG GAAAAGGAAAGGACAAGGGCAAGAGCCAGAAAAGGGGCAGAA
 AAGCCAAAAAAGGGGAAGAATGGGGGAGGGGAAGGGAGAGAG GAAGAAGAGGAGGGGAACCGGAAAAAAGGCCGGGGGGAAAAC
 GAGACCGAGAAAGAAGACCGGAAGAGAAACCGGGGGAACGGG GAAGAAACCAAGGGGAAGGCCAACCAGCCAGAGGAAGAAGAG G G GAC GAAAGGGGAAAAAGGAAAAAGAGGGGCAAAGGGAGAG G G GAGGGAAGGGACCGGAAAAGGAGGGCCAGAAGGGAGAAAG GAAG $A \operatorname{A} A X A G G A A G G G G G G G G A A G G G G C C C C G G A A G A A A A A C$ CAAAACCGGAAAAGGGGAAGGGGGGCCAAGGAAAAAAAGAAG GAACCAAAAAAAAAAAACCCCGGGGCCGGCAAAGAAAAGGGA ACCCAGGGGGGAGGGGGAAAAGGAAGAAGAAAGGGAAAAAAA G G G GAGGAGCGAAGGGGGAAAAGAAAGGGGGGACCGAAAAAA G G G G G A G A G A A A G A A G G A A G GAGAAAAGAGAACCAAGCAAAG
 GGGCCAAGGAAAACAAGACAGGAAAAAAAGGGGAAGGCAAAG
 A A A A GAAAAAAGGGGAGAAGACAGAAGGGGGAGAGGGGAAAG G G G G A A A A C C C A A C C G GAA G G TAGGACGAAATAAAGGGAAAA A A ACC G G A GAA GAAAC GAAGAAACCGGCXAAAAGGAAAAGBA GAAAAGGGGGGAACCACAGCCAAAGAAAGAAGGGGAGCAAGB GAAGACCAACAAGAGGAAACAAAAAGGAACCACAGAGAGBAA A G G G A A C G G G A GAA A A G G GCC G G G A A GAACCGGAGGGAG GAG A G G A G G G G G G G G G G GAA A A A A TAA $A \operatorname{A} G A G G A A A A G G A A A G G G C$ A G G G A A GCCCCGGCCGGCCGGGGGGGGAAAGAGGAAAAAA GA GACGGGGAAGGAACCGGAAAGAACCCCGAGGAAGGACCAAAA

 G G GAAGGGGAGGAGAGGGGAGAGGAAAGGAAAAGGAAGAAAG AAAGGAAGAGAGAGGCCAGAAGGGGGGAAAAGAAGGGAGAGA
 A A G G G G G G G G G A A A A G A A A C CAG GAA A GAA A C CA G GAAAC C G $G G G C C G G A G G A A G G G C G A G G G G G A A A G A A C C G G G A G A A A A G B$ $G C C A G A A G A A A G A G G G G A G G A G G A A G G C A G A G A A A G G A G C A A$

G G G G GAAAAGGCCCCAAGGCCAAAAGGAGAACAAGGAAGATG G G G A A A G G G A A G G A A A A A A GACAGGAAAAATAAGGAAGGGGA GAGAGAGAAGGAAAGCCAAAAGGGGCAGGAGGGAAAACAAAG GAGGGAAAGACAAGGGAGGAAAGACGGGGCCAAGGAGGAAGA ACCAAGACCACCCAACAAACAACAAAAGGAAAA G GAAAGGGA AAAGGGGACAGAGAACCAAGGAGGAGGAGAGAGGGGGACAAA $A C C G G G A A G G A C C A C A G A A G G A A A G G A C C A A A C C A G G A A A A G$ G GAGGAGGAGGAAGGCCGGAAAAGGGGGAGAAAAAAG
G GACGGACAGAAGGAAGGAAAGGGCCAAACGGGGGGCAAAG GAACCGGCCGGAAAACCAGGGAGGGAAGAGGAGAAAAAAGGG G G GCCGGAAAAAAAAAGAGGAGGGGGAGGGGAAGGACAAGAA $A G G A G A G G A G G G G C C G G A A G G G A A A G G G A G G G A A A A G C A G A G$ A G G G G A G G G A G A G A A CAGGGGAAGAACAAGGCCAAAAAAAAC
 A A G G G GAGGAAGGAAAGAGGAAGGGAGAAAAGAGGCCAAAAA
 G GAGGGGAAGGAGGGAGAGAAGGAAGGGAGAGGAAGAAAA GA A A GAGAGGAAAAGAAAAGGAAAGACAGAGCCGGAAGGGAAAA GACAGGGGAAAAAAAGAAAAAAGAGAAAAACCCAGAAAGAGA G G G GA $\operatorname{G} G A A C A C C A A G G G G G G A A C C C C A A G G G G A G A G A G C C A$ GGGCAAGGGAAAAGGGGCCAAAAAAAAAAGGAAGGGAGAGGA A A G GAA $A \operatorname{GGGA} A G G G A A A A G G G A A A G G A A C C G G G G A A A A A G C$ A A GCCAAAAAGAGGGGAAGAAGGGAAAAAAGGACAAAGAAGA A G A A C A G G G A G G A A A G G G G A A G A A A A C A A G G A G G G C A G G G G G G G G A A A A G A A A A A A G GAACAGAAGGCAAGCCAGGACCAAGGC

 GCCGAGAGAGGGGGAAAGGAACCGGAAAAGAAGCAGGAGGGG GCCAGGAGGAACAGAGGAAGAGGAAAGGGGAAAAGAGGGGAC C GAAGGAGGAGGCAGGGAAAAGGGGAAGGAGAAAAGGGAAAA
 A A A G G G A G G G G G GA ACGGGGGGATTGGGAAAAGAAGGCAAC G G G G A A G G T TAAAAAATTAGCAGGGAAAGCGAGAAAAAAAAAG GAAGGAGCAGGCCAGAGAGGAAGGGGGACAAAAGACCAACAA ACAGGAAGGGAGAGGGGAAAAAACAAGGGGGCACACCAAGAA ACCGAAAGGCCGGGGGGCCAACCGGGGAAGGGGAAAAAAAAA A A A G G A A A A GAA A A G GAGGGAAGAGGGCCAAGGATAACAGAA GAGAAGGAGGAGGGAGGAACCAGAAAGCCGAGAGAAAAGAAG G G G G A G G C C G G A A G G G G G G G G C A A A G G G G C C G G A A G G A A A A A GAAAACCAAGGGGGGGGAGTTAAGGGGGGAAAGACAACAABA AAAGACCAACCAAGGAAAAGGAACCAAGAGGGGGAAGGAAAA G GAGGGGAGAGAAAAGGAAAAGAGAAGAAAACGAACCGAAAG GAAAAAAGGAAGGAAGGAGGAACAGGGGGAAGGGGCCGAAAC A G GAAA A G GAACCAAAGAGGAAGGAAGGGAAGAGACCTXAAG A A GACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAAGAG GAACCGGGGGGAAAGAAGGGCGAGAAAGGGAGAGACAA GGGG
 GAGAGGGCAAAGAGGAAAGGAAAGGGGAAGAGGAGGGGAAAA G G GAGAAAGAGAGGAGAAGCCGAAGAAGGAAGGGAACAACAA $G C A G G G A A A A C A A G A A G G G A G A G G G A A G A A A G G G A A G A G A G A$ A A G A G A A C C A G G G A GAGAGAGGGAGGGGAGGGAAGAGCAAAA GAGGGACGGGGAAGGGGAGACGGAAGAAAGGAGGGAAAAACA C G GAA A GAAGGACAAGGAACCAAACAGAGGAGAAGAACACAA $A C C A A C C G G G G A G A A G A A A A A A A G G G G A A A C A A G A G A A G A G G$ AA $A \operatorname{GGAAAAAAAGGAAAAGGACGGAAAAGGGGCCAAGGACGAA}$ A G G G G G GCAGGAGGACCGGAAGGGGAGAAAGCCGAGGAGAAG G G G A A G G A A G G A A C C G G A A GAC G C CAGAGCAGAGGAAA G G G G G G G G G G G G G A A G G A A G G G G GA G G A A A A A A GA $\mathcal{A} G G G G A G A G A A$ GGAAGGACAAGCCGGAAAACAGAAGTTAGGAAAAGGGGAAGA

TCACCAAAAGGCCAAGGAAGGAAAAGGAAGGACAAACAAAAG GAGGGAAAGAGAAAAAACCAGAAAAGAAAAGGGAGAAAA G GA A GAG $A \operatorname{GAAA} A A G G G A A G A A A G G G G G G G G A C G G C C G G G G A G G G G$ G GAGGAGAGAGAATTCCGAAGGGAGGGGGAAGGAAAAGAAAC CAAGGAGAAAGGGAAGAAAAGAGAAAAAGAAAC G GAAGGACCC C G G A A A G A A A A C C G A A GAA $A \operatorname{GGGAGAGAGACCGGACAGAGAAG}$ GACAAAAAAGGAACAAAAAGGCCAGGGGGAGCCAAAGGAAGA A A A A A A A A GCCGGGGAGAAAGACAACCAGGGCCAAGGGGGGA A G G A G A A A G G A GA $A \operatorname{A} A G G G G G G A G A G A C A G G A G G G A A G A A G G G$ GAAAAAGGGGAACAGAGGGAAGGGGAGGGCAAGAAGGAGAAG GACGAAGGGGAAGGGAGAAGGCCAGAAGGGAGAAGGAGAA$G A$
 A A C G G A A G G A A G G A A A A T T G G G G G A A GAAAAAAA G GAA G GA G G GAACCGAGAGGGGACGGAGGGGAAAGGGGCCGGGGCCGBGAC C C C A A A A G G G G A A G G G G G G A G A G G A GAGGGGAA G G A A A A G G A A G G A A A A G G G G G GAATTCCAAAAAAGGCCGGCCAAAAAAAAG
 A G G G G G GCCAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAG $G A A C C A A A A G G G G A A A A A A A A G G G G G G C C A A A A G G G G G G G G G$ G G G G GCCAAGGGGAAGGAAGGCCAAAAGGAAGGAAAAAAAAA AAAAAAACCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGGA
 A A A A A A A A A A A G G G GAAGGCCGGTTAAGGGGAAAAAAGAAAA A A A G G A A $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A A A G G G G A A G G G G C C A A A A G G G G C$ C G G G G A A G GCCAAAA A A A G GAACCCCAAAAAAGGAA GGGGGGG G G GCCAAAACCGGGGAAAAAAGGGGGGAAAAAAGGAAGGCCG
 C C C G G A A G G G G A A G G C C A A A A G G G G G G G G A A A A A A G G A A G G C C G G A A T TAA A G G GAAGGCCGGAAGGGGAAAAAAGGAAGAAAA AAAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAG G A A A A G G G G A A A A A A $\mathcal{A} G G G A A A A G G G G A A A A A A G G A A G G G G A$ A G G G G G GAA A GAAAAGGGGAAAAAAGGAAAAAAAAAAGGCCA ACCAAGGAAAAAAAAGGGGGGAAAAAAAAAAGGCCCCABAAAA
 G G G A A A A G GCCAAAAAAAACCTTGGAAAAAAAAAA GGGGGGG G G G G G G G G G G G G G T T A A A G G G G G G G G A A C C G G G G G G G G A A A A $\mathcal{G}$
 GAATTCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAA G GAGAACAAAAAAAAAAAAAGGAGAAACCGAGGAGAAGAGAA $A C C G A C C A G C C A A G G G G A A A A A A G A G A G G G A G G G G G A A G C A A$ C G A A A C A A GAGAAAAAGGGCCGGCCGGGGGGAAAAAAGAAAG G G G G GAA $\operatorname{A}$ GAA $A \operatorname{GC} C A A G G A A A A A A A A A A G G A A G G A A C C A G A$ GAACCGAGAGGAAGGGGAACAGAAAGAAAGGGGGGAAAGAAA A G G G G GAGGAAGGAAGGGACAAAAAAAGGCAAGAACCCAGAA A G G A A G G A G G A G G G G G G A G C A A A G GA $\operatorname{A} A A A G G C C G G G G A A G A A$ A A A A A A A A A A GAGAACAAAGGAAGGAGGGGGGGAAGGABAAG GAGGGACGGGGAACCGGAAAAAGCCCCAAACAAAAGGAGGGA GAACGAACGGAGGGGGGGAAACCGGAAAAAACCGGAAGGGGC CAAAAGGAAAAGGAACCGGATAGAGGGGGGAAGAGGGCAAGB A G GAGAGACGGGAGGAGAAGGGGAAAGAGCCAGGGCCABAAG GAGAGGAGAGGGCCCGGGGAGAAAGGGGGGGAAGGCAGAAAG A GAGAGAAGGGAGAGAGGGCCGAAAACAGGGAAAGAAAGAGC CAAAAGGGAAGGCAGTTAGAAAAGGGGCAAAAGAGGACAAC G GAAAAGAGGCAGGCCGGGAAAGGGGAGGGGGGGCGAGCCGGG A A G G A G G A A A A G G A A G GAGGGGGAGCCGAAAAAAAGAAAGAA ACACCGGAAGGGGGAAACACCGAGGAAGGAAGGGGGAAAAAA A A A A A GAG $\operatorname{A} G \mathrm{G}$ GAAGACAGAGGGGGGCCAGCCGGAAGAAACAA AAAAAAAAGGGCAGAGGAACCGACGAAGGAGAAAAGAGGGGC
$G C C A G A A G A G G A A G G A G G A G G G G G G G A A A A A A A G G A A G A A A A$
 GCCGGAAGGAGAAAGAAGAGGAAACGGGAAGGGAGAAAAAAC $A C C A A G A G G C C G G C A G A G G A A G A C C A A A A G G C C A A G G G G G G A$ GAAAGAAATGGAGAACAAACCGGGAGGAAACGGAGAGACGAG ACCAAGAGGAGGAAAAAAAAAGGAACCGGAACCGGCAAAAAG $G G G A A A G A G A G G G G A A A A A A A G G C C G A A A A A A C G A C A C C G G A$ AAGTACAGGAAAGGGGAGGAAGGAAAAGGAGGAAAAG
CAAAGAAGAAGAAAGGAAGGAGAAGGCGAAGGAGAGAAAGA GAAAAAAGGCCACGAAAAAAAAGAGGGAGGAGGGGATAAAAA ACCGGGGGGAAACAGGGAACCGGGGAGGACGGGGGAAAACAA
 GAACCGGAGAAGGAAGAAAGGAACCAGTAGGAAGGAAGAAAG A A A G G G A A A A A G G GAAA A G A A A G G GAAAAAAA A A A A G G G A G G G AAAGGGGAGAAACGAAAAATAAAGGAAAGAGGGAGCCABAAG G GAGGGAGAGAACACGAAAAAAGGGAAAAAGAAAACCCAA GA A GAAAA A G GA G G GAACCAAAGAAGAAAAAAAAGAAGGCCGGC CAAGGGGAGAAAAGGAACAAAAAAACAAGGAGGGGCAAAAAA $A G G A C G G A A A G G A G A G G G G G G G G G G A A G G A A C C G G G G G A G A C$ GAGAAAAGGGGAAGGAAAACCGGACAGACGACCAAGGGAGAG GAGGCAAGGAAAAGGAAGAGGGGAAGGCCAATAAAGGAAGAA G G GACAAGGAAAAGAGGACAACCGGAGGGAACAAAGAAGAGAA A A G G G G G A A A A A A A G G G A G A A G G G G G A A A A A G G G G G GAAAA A GGACACCAATTGACCCCAACCAGAGGGCCGAGACAGGAAGAG GAAAGACAAGAGGAAGAGGAAGGCACCAGCCAGTTCCABAAG GAGCCAAAAAACCGGGGGGAAGGGGCCAAAAGGGGCCAGAAA A G G G GAAGGAAGGAAGGGGAACCGGAAGGAAGGCCAAAAAAA GAGCCCCAAGGGAGGAGAAAACCGAGGCCTAAGGGGGAAAAG G G G A A A A G A A G G G G G G A A G G G G G G A A A A GA GAAAAAA A GA GA GCCGGGGCCGGGGAGGAAAAGAGAAGGAAGGAAAGAGAAAAA G G G A A G G A G A G A GCAGGACGGAGGGCCACGGAAGGAAAAAAA AAAGGCCGGAAGGGGAACCAACCAAGGAAAAAACCAACAAAG G G G A A A A A A G G A A G G G GAA T T G G G GAA G GAAAA A G G GAAAA T A GAGGGACCAACAGAAGACGGAGGGAAGAAAAAGAAAAGAAC CAAACCAGAGAGAGGAAAAAAGAGGGAAAAGGGAATTCCGAA AAAGGAGAAAGAAAAAAGGGGAAAAGGGGAAAAAAAGAGAAG $A C C A G A A A A G G G G G G A A A C G G A A G A A A A A C A G G A C G A G A A A G$ G G G G G A A A A A A A A G G G G GA GAGAAACAGAAAAAATGGCAGGAA A A A A A A G G A A G G A G G G A T T G A A G CAGAGGAACCA G G G G G A A G G AAAGGAACCAAAAGGAAAGCCACGAGAGAGGAAAGGGGAAAG G G GAAAAGAGAGAGGCAAGCCGAGACAAAAGGGCAAAGAAAA G G G G G G G A G C C G G A G G G G G A A G G G G G G G A G A C C A G A A G G G G G G GAGGGGAGGAAGAAAAGGGGGGAAAAGAGAAGAGGGAGAAA $A A G C C A T A G A G G G G A A C G A G G A G A A G G G A G A A A G G G G C C G G G$ G G G G G A A G A A G A G A A G A C G A A A GAAAAGGCACGCCAAAAACA CAAGGAAAAAACCAACCGAAGCCGGCCGGGATAGGAGAAGAC C G G G G G G A G T A G G C A G G G G A A A A C C G G C C G G C C G G C G G G G G C $A G G G G G A A A G A G G G A G G A A G G G G A A G G A G G A G G A A A G G G G G G$ ACCAAGGGAAAAGAAGGACAAAAAAAGGAGGCAAAAAAGGGG GAAAGAGAAAAGGAACCAGGGGGGGCCGGAAGGGGAAAAAAC C G G G G G G G G G G A A A A C CA $A$ A A $\mathcal{A} G A A G G G G G G G G A A C C A B A A G$ G GAA $A$ AAAAAGGAGAAGGACCGGCCGGAGGGGGAAGGAACAG GAGGAAACCGGAAAAAAAGAAGAGGGAAAAAAAGGAACCGBA AGGAACAAGAACCGGAGGGCAAAGGAGCCGGAACCGAGGAAG A GAAACCCCGGAAGGAGACCCGGAACCAACCAAGGGGGGGAA A A GAACC GAGAAAGGAAAGGGAGCCAGCCGGGGGGACGAGAG GAGAGGGAGGGAAGAGGCCTTAGGACGAAAAAAAAAGBAGAA GC G G G G G G GC C C C A A A A G G GA G G G G G G C C G G C A G G G G G G A A $G$ AAGAGAGAAAGGGGGGGAAAAAGGAGGCCAAGGGAAAGAAAA

G GAGAGGAGGGAGGAGACCAGGGTAGAGAAGAAAAGAAGAGG $A G A A A G G C C A A G G G G A A G G A G G G G G G G A G A A G A C C A G A A G B A$ G G G GAGGACCCGGAGCAAGAAAAGGCCAAAAAAGGGAAAAGA GAGAAGGGGAAGGAAAAGGCAACAACCAAGGGGGGAAAAAAA A G G GAGAAGAGACGGCGGAGGACCCGGGAAACAAAAACAGGA AAAGGCCAGAGGGCAGGAGGGAACCAGAAGGGGGAAAGGGGA GAGGAACGGAAAAAAAAGGGGAAGAGGGAGAGGAAAAAGGBA GAAAGAGGACCAAGGCCAAGGGGAACCAAAAAAGGAAAAAAG GAAAAA $A$ A $A \operatorname{G} G A A G G G A C A A A A A G A A G G A A A A A A G A G A A A G G G$ AAAGGGGGGAAGGAAGGCAAACAAGCCGGAAGGGAGGAGAAG G G GAGAAGAAGGCAAAAAGGGGGGAGGGGAAGGAAGAAACAG A G G A A C A A A A G A A A A C CAAAGGGAAAAAAGAAGAGAAA GA GA C C C A A C C A A G G A C G G C C G G T T G G G G A G G G G G A A A A G G A G A G G
 A A G G G G A G A G A A GAAGGAGAGCCCCACGAGGGAGGAAGAAAG GAAGGAAGGGGAAAAGAAAAAGGAGGGAAGAGGCAACGBGGA $A G G A G G G A C G G G G G G A A G G A A G G A A A G G A G G C C G G A A A A G B A$ A G G G G G G G G A G A C G GAAGAGGTTAAGGAAGGAAAAAAAACAA A A A A A A A A A G G G G G GAAAACCAAGGAAGGAACCGGAAAAGAA A G G A A A A G G G G A A C C A A A A G G C C A A A A A A A A C CAAAA G G G G A A GGAACCAAAAGGGGGGAAAACCAAAAAACCAAAAG GAAAAA A A A G G A A G GAA $A \operatorname{G} \operatorname{A} A A A A A A G G A A G G G G G G G G G G G G G G G A A A C$
 A G A A ACAAACAAAAAAAAGAAAGGAAACAGGAAGGGAAGAGA G G G G A G G A A A A A A A G G G G A A C C A A A A A A A A A C C G G GA G G G G G GAGACGACAGGGGCCAAGAAACAGGAAGGAAGAAAGGAAAAA A G G G GA A A A A G G GAAAAAGGAAGGAAGAAGAGAA GACGGGGG
 A A GAGAAAAAAGGAAAAGGGGAAAGTAGAAGAGAGAACACAA AGGAAAAAGGGCAGGCCAGAAGAAAAAAAGGCAGGGAAAGAA G G G G A G A G A C A A G A G A A A G G G A A G A C C G G A A G G G G G G A A G G G G G G G GAAAAGGGGAAAAAAGGGGGGAAAAAAGAGGGGAACAG
 $G C A G A G G A A A G A A A G G A A A G A A G G A A A C C A G A C C A G G A G A G G$ G A A A A A A G G A A A A G GAA $A \operatorname{AGGGGGCCAAGGAAGGAAAACAAAG}$ GCCGGGGGGAAAAAAAAGGAACCAAGGGGAAAAAGGGACGGC C GAAAGGAAAAAACAAGGAAAGGAAGAAGAGAGAAAACAA GA A GACCCCAGCAGGAAAACCAACCGAGGAGGGAAAGGCAAAAA A G G A A C G A A G G C C T A A A G G G G A G A G G G G A G G G A G A G G A A A G G GAAA ACAGGAGAAAGAGAGCCAAGGGGAAGGGAACGGCAAGA $G G A A A G G G G A A A A G G C C A C G G A A G G C C A A G G G C G G G G G G G G G$ G G G G G G G C A GACCGGCAAAGGGGGGGAAAAAAAAAAAA GAAA G G G G GCACCAAGAGAAGAATTGGCACAACAAAAAGTTAATTA A GAGAAAAAAAAAGAGGAAGGAAGGGGGGAAAAAAGAAAA GA ACAAAAGGGGAAACCGGCCAAGAGGGGCCCCGGGGAGAAAAG GAAAA A G G G G G A A A A T T GAGGAGACAGAAGGCCGCCCGGCC G
 A A GAA A GCCAGGGGAAGAAAAGGAAAGGACCGGGAGAGAGAA AA $\operatorname{A}$ TAAAA AAGGAAGAAAAGGAAGAAAGGCAGGGGCAGAGAAA
 $A C C G G A A G G C C G G A A G A G G A C G G G G T T A G C C G G A G G C A B A A G$ A A C A A A C A A A A A A A A G G G G A A A A A A A A A GAAAAAA AA G G G G A ATTCAAAAAGGAAGGAAGGCGAGAAGGGGAAGGAGAAAAGGA A G GAAAGAGAAAGAGGGACGGAGGAGCAGGGAGGGGAAAAGA G G GAAAAAAGAGGAATACCAACGGGGGGAAGGAAAGGAAAAG A G G A T A G G A A A GAACCGGGCCCAGAGGGGAGGGGGGAAAAAG G G G G G G G A A G G A A A A $\mathcal{A} G G G G G G G G G A A A A G G A G G G A A A A A A G$
 GAAGGGGCAGGGGAAGGAACCGAAGGGGACCGGCCAAAAAAA

A A G A ATTGGTTGAAAAAAAAAAAAAAGAAGGGGAAAGCATTA
 AAAGACCAAGGGGGAGACCCAAGAGAAAAAACAGAAGGGGGC C GACCAAAACAAGACAAGGAAACGGGGAAAAGGCACCAGCAG AAAAAGGGGAAGGAAAAAGAGGGGAAGAGAAAAGAAGAAAAC A A A G G G G A GAAACAAGGAAAAAACCGGAAAAGGAAAAGGGGA A $G G A G A C G G G G G G G G G G A A G G G G A A G G G G C C A A A A A A G A A A A$ AAAGGGGCCAAGGGGGGGGCCCCAACAAAAAAAAAGG
G GAAAAAGGGCCAAGGGGAAAAGGGGAACCAACCCCAAGGA AAAGGAAAAAAGGAAAACCGGGGGGAACCAAGGGGAAAAGGG
 $A G G G G G G A A A A G G G G G G A A G G G G A A G G G G G G G G A A A A A A G A A$ A A A G G G G A A A A G G G G G G G G A A A A A A C C G GAAGGC CAA G G C C G GAACCACAAAAAAAACCGAGAAGAAGGGGAAGGCAAAAAAAA A G GAAAAAAAGAAGGGGAAAGGGAAGGAACCAAAGTTGGAGAA GAAGAAGGAGAGGAGGCGAAGGCAGGGAAGAGAGAGAAAAGA AAAGGAAGGCCAAAGAGGGGAAAAGCCGGAAAAGGAACCCCG G G GAGAAAACCAAGGGGGGAAAAAAAAGAACGAGGAGAGACA GAGGAGAAAAAAGCACAGAAGAAAGAAGGAAGGGGGGGAAGC AAAAAAAGGCCCCGGGGGGGGGGAAAGAAAGAAAAGAAGAAG GAAGGGGAAAAAACCGAGAAGGGGAAGGGGAAGAGCAAGCAA AAAGGAAGACCTTGGGACACAGAAAGGGGGGGGAAAGAGAAG G G G G G G G A A G G A A A A G G T T G A G G G G G G G A G A G C G G GAAA A A A GAGGGAGGAACAGGGGGGGCAGAGGAGGGGAGGGGGGABAAA AAAAAAACCCCAAGGGGAAGGAAGGGGGGAAAAAAGGAACCG
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 GTAAAAAGGGGGGGGGGCACCGGAAAGAGCCAGAGAAAAAGA GAGGAGGAAAAAGCCACGGGGAAGCAACCCAAACCGGAACCT A A GA $\operatorname{A} A A \operatorname{A} G A A A A G G A A G G G G A A T T A A A A G G G G G G A A A A G G G$ G G GCCGGGGGGAAAAGGGGGGAAGGCCGGGGGGAAGGAAAAG G G G G G G G G G A A G G G A G A A A C C G GACAA A A G G G GA G GAAAA A A AACAGAAAACCGGAAGGGGAAGGGGAAAGCCAAAGAAGAAAA

A A A A A A A A ATTGGAGGGGAAGCCGGAAAAAAGGAAAACCGBA A A A A A G G G GAA $A \operatorname{G} \operatorname{A} A A A A G G G G G G C C A A A A G G A A G G G G G A A A G$ G G GAA A G A A A C A G CA G G G GAAA A A A A G GAGGAACC GAGAGAC $C C C G A G G A A A A G G A A A A G G A A G G A A C C G G A A A A A A A A G A C A A$ A G G G GAAGAAACCAACCGGAAGAAGGGAAGGGAAGGAAAAGA G G G G G GACCGGGAGGGGAAGGCCAGGGGGCCAAGGAGGGACG A G G A G G G G G G G A G A A G GAA A G G A A A A A G GAAAA A GAAGAC CA AAAGGAAGGGGGGAAGGAAAAAAGGAAGGAAAAAAGAAAAAG G G G G G A A G G A A G G C C A A A A $\mathcal{A} G G G G G G G G G G G G G G G G A A A G B C$ $C G G C C A A A A G G G G C C G G T T A A G G A A A A G G A A A G A A G G A A A A A$ A G GAAAAGGAGCCAAGGAAGGAAGGAAAGAAAGAAAAAAAGC C C C G G G G A A G G G A A GAGGAGAAAGGCCAGAAGGGGAACCGGG G G G G G C C A A G GCCA A G G A G G GCC G A G CAAAA A G G GA G G G G G A GAGAGGGCCGGAAGGGGGGAAGGAAAGGACCGAAAAGGAAGA GAGCCGGAAGGGGAAAAAGTTGGAGGACCAAGGGGGGAGAAA $C \subset G G G G G C C A C A A C C G A A A A A G G G G A A C A A G A G A G G G G A A A A$ CTTCCAAACCCAGGGAACCGGAAGGCCGGGAGAGGAGGAAAC CAAAAAAAGCAACGGGAGGGGGGGAGAGGGAAAACACAAGAA GGGGCAGCCAAAGACGAGAAGAAAAAAAGGAAACCAGCAAAA $A C C G G G G A G G G C A C A C A G A C C G G G G A A A G G A G G A A G G G G G G G$ GAACCAACAGAAGGAAAGGGGAAGAAGAAGGCAAAGGAGCCG GCCCCAAAGAGAGGGGGAAAGAAAGAGAGGACCGACCAGAAA A G G A A A G G A A A G G G A C C A G T T A A GAGAGGGGGGAAAAGAAAA A G G A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A \subset C A A G G A A G G G A A A A G A A A A G G A G G C G$ $G G A C C A A A G A A G G A G A G A G A A G G G G G G G G A A A A G G A G C A A A A$ A G GCCAGGACAGGAAAAAGGAGGACCCGGGGGGAGAGAAAAA GAGAAAGGAACAAGAAGAAAGGAAGCCAGGGGGAAGAACAGAA ACAGGGGCCCCAAAGGAGAAAGACGAGAGAAGGGGGAAAGAA GAGAGAAAAGGGGAAGGGAAAAGAGAGAAGAGAGGCCBGCAA $G G A A G A A A G G G A G A A A G A A G G A A G G A A A G A A A A G G G G A C G G A$ A A A A A C C A G A A A A A A G G A A A A A A G G G G G G G G A A A A A A G G C C A GTATTGCAGAACCAGAGGAGAAGGAGGAATTAGAGGGGGAGA GAAGGGGAAAAAGGGAGAGACGGAAGAAAGGCCAAGGGAAGG GAGAAGGGGGGGGGGGAGGCGAGAAAAGGACGAAGAAAGAAA GAAAAGGAAGAGAACAGGAAGGAAAAGAGGGGGAGAAGAGGG GAACCGGGGAAGAGAAGAGAGAAGGGGAGGGACAAAAGAAGA A A GA $\operatorname{A} A A A G A G A G A A A G A A A G A A G G A A G G G A A G C A G G G A G G A$ AAAAGAAGGGGGGGACCCCGGGGAAAAGGGAAGACAAAAAAC A G G G G G G A G G A G G C C A A A A A G G A A GAA A G A A A A A A A A G G A A G GACAAGAGGACGGAAGGGGGGGGAGAAACGGCAAAAAGGCCA GAAGGAAGGGGCACCGGAAAAAAAGAAAAAAAGAACCAAGGC C C C G G C A A C G A GAA A G GAA $A \operatorname{AGGA} G A A A G G G A A G G G A A G G G G A$ A G GAACAAGAAGGCCGGAAAAAGGGGAGGGGAAAAGGGBAAA GCCGGAAGGGGGACCCCGAAAGGGGAGGAGGAAGACCGAACA GACAGAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTXGGG G G G G G A A G G G G G G G GAA $A \operatorname{GCC} C A A G G C C G G A A A A A A T T A A A A A$ A G GAA A GAAAAAAGGAAAAAAAAGGAAGAAAGAA GAAACACC CAAGACCGAAAAAAAAAGAGGAAAAAAAAGGAACCGGGAAAG AA GAGAACAAAAAAAAAGAAGGGACCCCAGGCCAGGGGGGAAA
 $A C C G A G A G G G G A G A A G G G G A A G G G G G A G G C C G G A A G G A A G A A$ AAAGGAAAAAAGGAAAAAAAAAAGGCAAAAAAAGGGAAAAAA GCCGGAACCGGGGGGGAAGCAAACCAAAAGGAGAAGAACAGG A G GAAAAAAAAAGAAAAAAGGAAGGGAAAGGAAACACGGGGG G GATTGAGGGGCCAAAAAAAACCGGGGGAAAGGGGGAAAAAA GAGCCGGGGCCAAAAAAAAGGAAGGAGGAGAGAGGAAGAAGC A A G G G A G A A G G A G G G G GACAGAAGGAAGACAGAGATTGGCCC CAAAAAACCGAAAGAGGGGAAAAAAAGGGAGAAGGAAGGGGA $G C C G A G G A A A G A G A G C C A A A A G G A A G C G G G G G G G G G G G A C C G$

GAGGGCCCAGGGAAGAGGAGAACAAAAAAAAAAGAGGGAAAA
 AA $A$ A $\operatorname{A} A G A G C A A A G A G G A A A G G G A A G G G G A A G G A A G A A A A G A$ A G GAAAAGGGAAAGGGAGGGGAAGGGGCCGGAGGAGAGACAA A A GAGGAAAGAACGGGGGAAAGGAGAACCGAGAAGAGAAATG G G GAACCAAAAAACAAGGGCGCAGAAGAAGGCAAGGGAAABA
 A A A A A GAGGAAAGAGAGCAACAAAAAAAAGGCCAAGG
C C GAGGGGAAGAAACCGGGGGGGGGGAAAAAGAAAAAAAAG G G GAGGACCGGAAGGAGAGGGGGAAAGAAGGAAACAGAAGGG A G G GAGGGGAAGGGAAATTGAAAGGAGAAAGAAAGGAAAGAA A A A A A A A A G G G A A GATTACCCGGAAGGAACCCAGGAAGAAAC AAGGGGACAAAAAACAAAGGACAAAGAGAGGGGAAGGAAAAA $A G G C C A G G A A A G G A A G G G A G G A G G A A G A G G G A G G A G A G A A G G$ GAGAGAGAACCCAACGAAAGGGAAGGGAAAGGAGGAAGAGAA G GAGAGGGGGGGGGGACAAGAGGCCAGGAGGAGAAAAGAAAG AAAACAAGGGGAAGGCCAAAAGAAACCGGAAAAAAAAGGGGA CAATTAAAGAAAAAAAAAAAGGGGAAGGAAAACAGBAAAAAC CAACCCAACAAAGAGAAAGAAGGAACCAAGGAAGGGAGAAGA A A G G A C A G G G A C C A A G G G G C C G A T A GAAAGGGGCCAAAAGAA A GAGAAAAAGGGAAGAAGAAGGGGGGGCCGGGGGAAGGGCCA
 GAACCAGAAGAGAGGACCCAGGAAGAAGGAAAAAAGGGAAAAA
 GAA A A A GAGGACCAAGAAGAGGAGGGGGGCCCAGGGGAAAAG A G G G G G G G GAAAGGGGGAAAACAAGCCGGAACCAAATGGGGA AAAAAGGAGGGAGAAAGAAAAGAAAAAAAGGCCAGAGGGAGG G G G G G A G A GAGCAACGGAAAAGGGAGGGGAAAAAAGGAAGAG G G G G A A A G G G GCCCAAAAAA A A A A A A G G G G G G G G G G G G G G A G G $G C C G G C G G G G G A A G G G G A A C A T A A A G G G G G G A G G A C C A A G G A$ A G G C A G A A C A A G A A A G G A A A C A A C A A G A A A G G G T T A A A A G A A AAAAGAAGGAAAAGACAGAAAGGGGGGAAGGGACCGAAAAAA
 AACAGAGGAGGAGAGAACGCCCCAAGGGGGAGCAAAAGAGAA $A G G C C A A G G G G A A G G A A G G T T A A G G G G A A C C A A T T G G G G G G G$
 G G GAAACA AAGAGGGGGAACAAGCACCGGGAAAGGGGAAAGC CAAGGAGGAAAAAGGCCCCGGAGAAGGCAAAGGAGGAGAGBA A A A G G A A A A G G GAAA A G A A A GAAACAGAACGAAAA G GAGAAAA
 G GAGGGGGGGAGGCCAAAGAGCACAAAAACAAGAGGAAAGGG A G G G A G G C C A A A G A G A G G G A A C C C C GAGGGGAAGGGGACCAA G G GAAAAGGAAAAAGAGAAAAAAGGAGAAAGGACCGGGGGGC $C \subset C A A A C G C C C A A G G G A G A G G G A G G C A A A A A A A A G A G G A G G G$ GAGCCGAGAGGAAAGGGAACCCCAAGGAACCGGAAGGGGGGA $A C \subset A A A A A A G G A A A A A A G G G G A A A A A A A A A A A A G G T T A A G A G$ G G G A A G G A A C C G G G G G G C C G G A A G G C C G G G G G G A A G G A A A A G
 AAAGGGGAAAAGGGGAAAAAAGGAAGAAGAAGGAAGGGAAAA A G A A A G A G A A A A G G G G G GAGGAGGAGACCAGGAGGGGAGGGG G GAGAGCAGGGGGAAGGAAAGAGCCAAAAAGGGGAAAAGGAA GGACCGGAAGACAACCGAGAAGGAAGGGGGGCCAAGAAAGGG GAAGGGGAAAAAAAGGACCGAGGAGGGGGAAAAGGAAAAAAC CAAGAGACCCCGGAAAAGGGGCCACGGAAGGGGGGACAAA GA GAGGAGAGGAGGAGGGAAAAGGGGACAGGAGAAAGAAGAAGG GACAAGGGGCAGGAGAGAAGGAAAGAGGGGGGGGGGGCAGGA GAAACAGAAAAAGAGGGCAAGAAAAGGCAAAGAAAGAAAGAA A G G A A A A A C G G A A G GAAAGCCAAGGAGGGAAAGGGGAAAAAA A G GAGGGAAATGGACACGGCCAAGAAGGGGGAAGAAGGAAGG

G GAAAGGACGGGGGGAAAGGAAGGAAAGGAGGAAAAGGGAGA $A C A G G G C G G G G G G G G A A A A A A A G A G G G C C C C A A A G G G G A A C B$ AAAGGAAGGCCAAGGAAAAGGGAAAGGGAGGGGGGAAGGGGA A A A G GCAACAAGGGGGGGGAAAAGGGGCCCCAAAAAAAAAAA AAAAACCAAGGGGAAGGAAAAGGGGGGAAAAAACCAAAAAAG G G G GCA $\mathrm{C} A \mathrm{~A} G \mathrm{G} A \mathrm{~A}$ GAGAAGAACCAAGGGGAGAAAGATGGTTA $A G G A G G G A A G G G A A G G G A G G G G G G A G G A G A A A A G G A G A A G G G$ $A G C A G G G G A A C G G G G G A G G A G A G G G G G A A A A G G G A G A G A G G G$ G G G G A A A G G A A G G A G G G A G G G G G A A A A A A GCGGGGTTAACCC AAAGGAAAGGGGAAAAAAACCGGGGAAACAAGGAGAGAGAAA GAGACAACCCCAAAAGGGGGGCCCCCCGAGGCGCAAAGAGCG A G GAGGACCGGAGGAGAAGAGAACCGGAACAGAAGGAGGCCC C GAGAAAAAGGACGGGGAAAAGAAGAGGGGAGAACAGAGAAC A A G A G A A G GAGGACCGGCCTAGGACAAAAAGGGAAAGAGAAA G G GCCGAGGGGAGAAAAGGAAAAGGAGAAAGAAGAAACAGGG GAAGGAAAAGGGGCCACAACCAACAAAAAGGGGGAACAGAGG
 A A G G G A A A GCC CA G G GAAAGGAAGAGGCCACAAGGCCGAGAA AGGACGGAAAAGAGGGAAGAAGAGGAAAAAAGGGGGAAACCG AAAGGGGCCAAACCCAAAAAAAAAAAAACGGGGAAAAGAAAA A G G G GCCGGATAGGGAAGGGGAAGGAAAGAAAGGAAACAAAA AAAAACCCCCCGAAGAGGGGGGGCCAAGACCAAGGGAAAGGG G G G A A A A G G G G T T G G G G A G A A A A A A A A A A C CAA A A A CA G C A A A GAA A G G G G A G A G A A G G A A A A C C GAGGCAAACCAAAAAAGGG GACCCACGGAAGAAAAAAAAAAAAAGAAACCAGAAGAAGAGGG A A G A G G A A A C C G G G G G GAGAGAGACTAA GAGAGAAGGGGCC G A G G G G G G A A A A G G G G G G G A G G G G G G G G C C G G C A A G G G G G G G G GAAGGGGAAGGGGGGAAAAAGGAAGCCCCAGGAGGAGGAGBA G G GAAGGCGAAAAACAGCAGGGAGAGGGACCAAGAGAAGAAA GAAGGAAAACAGGGGAAAGCCGAAAGGGGGGAAAAGAAAAAG GAATTAGGAAGCCGGAGAAAAGAAAGGAAAGGGAAAAGACAG AAGAAAAACAAAACCGGGGAAAACCAAAAGGGGGGAAAGGGA
 A G GCGGGGGAAAAGGAAGGCCCCAAAAGGAACCGGGAAAAAG $G C \subset A A C C G G G G A A A A A A G G A A A A A A G G T T C C G G C C A A G G G G G$
 G G GCC $C$ G G G G G G G G G G G G G G G G G A A G G A A C C A A A A G G G G G G A A G G G GAACCCCAAAAGGGGAAAAAAAACCAAGGCCTTGAAAG A A C G G A A A $\mathcal{A} G G G G G G A G A A G A G G A A G G A A A A G G C C G G G G G G G$ G GAGAGGAACGGAGAAAAAAGGGAGAGAAGAGAACCCGAAGG $A C C A G A A A G A A A A G G G G A A A A G A C C C A A A G G G G A A G G A A A C G$ GAAGGAGAAGGCCAGGGGGAAGAAACCAAAAGGCCCCAGAGG G GAAGCCGGGGGGAAAGGGCCAGAAGAGGAAGAGACAAAGAG GAGAAGGGGAAGAAGAGGGAGAGGGGGGAGGGAGGAAGACAA A G G A A A A G G G G A G G A A G A A G G A A A A A A A A G GA G G G GA G G G A A G G G G G A C C A A A A A G A A A G G A A G G G G A A G G G G G G G G G G G G G G G AAGAGCCGAGGAACCAACCCCAAACAACCGGCCAAGAAAGGG G GAGGGGCCGGGAGGCCGGAACCGGAGAAAAAAAATTGGGAC CAGGGAGAAACGGAAGGGGGGGGAAGGCCCCCCAAAAGAAAC CACAGCCGAAAGGCCGGAAAGGGGGAAAAAAGGGGAAGAAGA A A G A A G G A A A A G GA A G G G G A A C C A A A A G G GA G G A A A A G G G G G GAAGGGGCAAAAAGGGGGGGGAAGGAAAGGGAAAA GGGAAGG G G G A A C C G G G GCCAACCGAGGGGTAAA GAA GA G GA G G G GA G G A GAAGGGAGGCCAGACCAGGGGGGAGGGAGAAAAGGAGGAAAA AAGCAACAGGAAAAGAATAGGAGAACCGGAAGGGGGGGAAAG G G G A A G A G A G G A A A A A A G G A G G GAAAGGGGGTTCGGAAAAAA AAAGGCCAAAAAAACAAGAGGAAAAGAAAGGCCGGAACCGGC CAAAAAAAAAAGGGGAAAAGGAAACAGAAACGGAAGGGACGT TAGAGAAAGCAGGAACCAGGGGGGGAACAGAAGGAGAAAGGG

A G GAGGGGGAAAAAAAAAAAAAAAAGGCAAGGAAGGACCAGA $A C C A A A A A G T T A A A A A G A A G G A A A A A A G G A A A A C C A G G G A G G$ A GAGGGGAAAAAAGAAAAAGGAGAAGGAGGAGGGGGAAAAAC A G GA $\operatorname{ACC} C A A A A G G A A A A G G G G G G A A A G T T G G C G A G A A G G G G G$ AGGGACCCCAGACAGGAAGGAAGGAGAGGGGAGACAGGAAAG GAAAAGGACCAAGCCGAGAAAGGAGAGAAACAGGAGACBCAG A GAA A A A A GAA $A$ A $A \operatorname{G} \operatorname{A} A G A A A A A A G G G G G G A A A A G G G G A G A A G$ A A G A A $\mathcal{A} G G G G G G G G G A G C C G G G G G G A G A A G G A A G G G A$
G G G A G G A C G G A A G G G A A G G G A G G G G G A G G G A A A A G G A A A A $G$ GAAAACCGGGGGGGGACGGGACAGGAGGGACGGAAAAGAGAA GAAAACCAATTGAAAAAAAGGGGGGAGGAGGCCGAAAAAAAA AAGACAAAACAAAGGCCAATTGGAACCAAGGGGAAGGGGAGG GAAGGAACGAGAAAGACCAGAAAAAAAGGGGGGAGAAAAAAA AA $A G G A G G G A C A A A A A G G G G G A G A A A G G G A A A A G G G G G A A C A$ AAGGCCAGGAGAAACGGCAGGAAGGGAAGGGGAGGAAAGGAG GAGGGGGAAAAAACCAAAAAACCAAAAGAAAACGGGAAAAAG G G G A A A A T T G G G GA G G A G G A C G G A A G G GAAAAA A G GA GAA G G G $G C C A A C C A A G G A G G A A A A A G G A A G G A A G G A G A A G G A A C C G G A$ AGGGAGAAGAACCAAACAAAAAAGAGAGGGGAAAAAAAGGGA AAAGGAAAACCGGAACCAAGGAAGGGGACAAAAGGAAAAAAA GAAAAGAGGAAGAGGGGGAGGGGGGGGGAGAAGGAAGAAGAG

 $G C G A A G G A A G G A A G G G G A G A A G A G A G G A G G C A A A A A A G A A A A$ A G GA $\operatorname{A} G A C A G A A G G G A A G G A G G G A A G G C C G G A A A G G G A A A A G$ G G GAA $A \operatorname{GGGAA} C A G G T T A A G G C A A G A A A A A A A A G G A A G G G A G$ A G G G G GACA $A \operatorname{AGG} \operatorname{A} A A G G A A A G A G A A G G C C A A G G G G G G G G C C A$ G G G G G A G G G G G G G A G G G G A A G G G A A G A A A A A C C A A A G A A G G G G G G TAAAGGAAAAGGAACCGGAAGGGAAAGGGGAAGGAGGBA AAAAGCCGGGAGGGAAAGGAAGAAAGACCGAAGGACCCAAAA $A C C A A G A A G A G G G A A G G G G G G G G A G A G G G G G A G G G G A A A G B G$ AGGGACCGGAGGAGGGAGGAAGAGGGAAGGACCGGGGAAAAG AAAAAAGGAGGGAGAAAAAAAAGAAGGGGAAAGACAAAAGAG A G G G A GAGCGGCCCAGAGGAAGGGGAGAAAAGAAGAGAAAGG GAGGAAGAGGGAGGAAACAGGGGGGCCAAGGAAAAGACAACA A GAAAGGAACCGGAAGGTTAACCGGAAGGGGGGAAAAGACAA AGGACGGAAAAGGGGCCAAAGGAAGGGAGAAGAGAGAAGGAA GAGGAGGCCAAGAGGAGAGAAAGGGAGAACCGGGGAAAGAAG GAGTAGAAAGGGGGGAAGGGGACGAAAAAGAAAAGAAAAACA T GCA C GACCCCACGGGGGGAAGGAAGGGGAAAAGGGGAGCCC CAGGGAAGGAAGGAAGGGGAAAAGAAAGAACAAGAAAAAAAG GCAACGGCAAGGGGGAGAAGGCAAAGAAGGAGGAAGGGAAAA A G GAGAACAGGGGAAAAAACCGGACAGAAAGCCAAGGCCGGA AAACCGGAAAAAAAGAGAGGGGGGAGGAAAGGGAAGAAAGAA AAAAAGGGAACCCAGCCGGTTAAGGGAGAGACCAGAAAAGCA A GAGGCCGAAACCGGGGTAAGGAAGGGAAGAAAAAAAAGGGG GAAAAGGAACCGAACGGCCGAGGGAAAAAGGGGAAGGATGGC CAAGGAAAACCTTCCGGACAAAAAAAAAGGAAGAAGGAGAGG GAGCAGAAGCCAAGGAAGACCAGGGGGGGCCAAAAGGAAAAG GCCGGGGAAAAAGCCGGGGGGGGAAGGAAAACCBAGACAGGC CAAGGGAGGCCAAAAAAGGAAAACCCCAAAAGGGGAAGAAGA A G G G GCCGGAAGGGGAAGAGGAAAGAGAAAACCGAGGAAGAA A A A G G A G A A A A A A G G A A A A G G G G G G C C G G A G G A G A A A G G A C G GCCGGGGGGCCAGGAGGAACCAACAGGAAGACCAAGAAAGGG ACAAAAAGGAACGAAAAAAGGAACCGGAGAAGAAAGGAGAAA AAGGGGGAAAACCGCAAAGGACAAAAAGAGAAAGAACGGGGG GAAGGGGAAAAAGCCAAGGGGTACCGGAAAAGGCAGGGAGAA GAAAGAAA GAAGGGGAGCGGAAACACAATCCAAAAACGAAGAG AAGAAAAAAGAGGGAGGGGGGGGGGCCGGGGAAGGAGCAAAA

AA GACGAGACAGGAGAAAAAAAAAAGGGGGGAAGGTTGAAAG GAC GATTGGAACCAAAAGGGGAAGAGGAGGAGGCAAGAGGGG G GAAGGAAGAAAACCGGAGAAGAGGGGGAAGAAAGAACAAGA C GAAAAAGGAAGGGGGAGAGGGAGAGGAACCAAGGGGACAAA A GACAAAGGGGGGGGAAAACCGGCCCCGGGGGGAAAAGGGGA A G G G G G G G G A A A A A A G G G G A A A A A A C CAA G GAA G GAAAACC C CAAAAAAAAAAGGGGAAAACCGGAAAAAAGGAAGBAACACCG GAAAAAAGGAAGGGGAAAAAACCAAGGGGAAAAGGACAAGGA GAGCGCCAGGCGCACGAACAGCCGGGGGGGGAAACACAAGAA AACGAGAGGAACCGGGGAAAAGAAAGGAAGGGGAGGACAAAG AAACCAGGAAAAAAAAAAAGAGAGAGGGGCCGGGGCCCCCCG A A G G G A A A A G G G G G G A G A A A A G G G G C A G G T T C C G G G G C C C G A $A G G G G G G G G G G A A G A A A G G G G A A A G G A A A A A G G A A G G G A A G A$ GAACAGGGGGAGGGGCAAAAGGGCATAAAAAGAAGAGAGAGA GAGAAAAAAGGAACCAAGGAAGGGGGGCCAAAACCGAAAAAG GAAAAAAAAAAAACAAAGAGGCAACCCGAGGGAGAGGGAAAA A G G A A G G G A G G GAAAAAAGGGAGAACACGCAGCCGGCCAGAAG GAAGGGGAAGGAAGGAAGGAAGGGAAGAAGGAGGGAGAAAAA AA $A G G A A G G G G C A C C C A G G A A G A A C A G G A G G G G G G G G C A G G A$ GAAGGAGCCTTAGGAAGCAAGGAAAAAAAGAACGGAGAAGAG AAAAAGGGGAAGGAAGAAGGAGAAAAGCCAAAGGACAAGGAA CAAGGAGCCAAGGAGGGAAAACCGGCCGGGGAGAAAAAAAAC C C C G G A G A G A A A A A GAGAAGGGAGACGACACGGAGCCGAAAG A GACCAACCGGAAAAGGGGAGAAGACAGAGAAGCCAAAAAAG GAGGGAAAAAACGGGGGAGAAAAGGAGGGAGCCAAGAACAAG AAA A GAAAAAGCAAAGGAAAGAAAAAAAAGGGGGGCCGAABA G GAGGGAAAAAAGGGAGGAGCGGGGGAGGGGCAGAAAGAAAA GAGCCGAGAAGCCGGAGGAGAAGAAAAGAAGAAAACCAAGGG GAACCGGGGGGAAAAGGAGGGGGAAAAAAAAAAGGAACAAAA A GAGGGGGGCCGGGACCAGAATAGGCCGGGAAGACAAGGGGA $A C C G G A C A G G A A G G A G G G G A G G G A A G G G G A G G G A C A A G A G G A$ C GACAACAAGAAACCAAGGGGGGGGCAGGAAGGCCCCAAGAA GAGAAGGAAGGGGAAGGAACCGGAAGGTTAAGGCCGGGAGGC C GAGAAAGGAAAAGGAAGGAGGAAAAACAAGAGCAGGCACCC CAACCGGAACCGGTTTTGGATACAAAAAGTAACCCAAGBCAC A A GCC G A A A A G A A A A G GCCAA GAGAAGAGCCAAAA G GAAG G G G G G A A A A A A A A A A G G G G G G GAA A A A A GAAACC GAA G GAAAA G GAAGGAGACCCAAAGGAGGAAGGGAGCAAAAAGAAACAGGGG GAAA A G G G G A A GAA $A \operatorname{G} G A G A A A A A A A G G G G A A G A A A G G A A G G G$ G G GAAAAAAAGAGGACACCACGGGAGAACGAAACCGGAAAAA G G G G GCC G G G G G G C A G G A A A A A A G GAA $\mathcal{A} G A A G G A A G G C C G G G$ A G A A A A A G G G G G G A A A G CAA A A A G GAAAA A GAA A GAAA A A G A GACGGACAAAAAAGGGAAAAGAAGGGGAGACAGGAGGCAAAC G G G G A G A A A A A A A GAGAAAAAGGGGAAGAAGAA AA G GAAAGGG G G G G A T TA $A$ A $\mathcal{A} C A G G A G A A A A G G G G G G C C G G C C A A A A G A A G G$ A A A A A A A A ATTGGCCGGCCGGAAAAGGAAAAAAAAGGGGCCG GAAAAGGGGGGCCAAAACCGGAAGGAAAAGGGGGGGGGAAAG G G G G G A A A A G G A A G GAAAA A GAA $A \operatorname{A} G \operatorname{G} G A A A A G G A A G G G A A A A$ A G G G G G GAACCAAGGAAGGAAAAGGAAGGGGGGAAGGAAGAA A A A A A G GAA $A \operatorname{GAAA} G \mathrm{GA} A A A G G A A A A A A A A G G G G A A C C G G G G A$

 G G G A C A C A G G G G A A A C C G G C C G A A A G GAC G GAA G G A A G G G G G

 G G GAGCCAAAAGGGGAAGAGACAAGGGAACCGGGAAGCAAAG G G G A A A A A A A A A CAGTAGGGGGGGGCCGAAAACGGAAAAAAA



G G GAAGGCCCCGGCCGAGGCCGGGGGGCCGGGAGGGGACGGA A A A GAGAGAAAGGAGAAACAGGAAGAGGGAGAAGGAAGAAAG GAAGAACAGGACCAGGAGGGAAACACAAGGGAACAGGGGGGG AGGGGCCAACAAAAAAAAAGGAAAGGAGGAAAGGGACGGAGG AAAGAGGGAAAAAGGAAAGAAGGAAGGCCGGAGAAGAACGAG G G G G G A C A A G G G G G GCC G G A A A A A A A A A A A GAA $A$ G A A G G G G A A A A A A A A A A A $\mathcal{A} G G G G G A G G G G A A G G A G G A G G G G A G A A G A A A C$ A A G G A A A A A A A G G G G G A GGCAAAGGAACCCCACAAAG
$G G C C G G A G C C C C G G G A C A A A G A G A G G C A G G A G A A G G A A C A G$ GAAGGAAGGAAAAGGAGAGAAGAGGGACAAAAAGGAACAAAG A A GAAA A A CAGAGAGGGAAGGGGAAGAACAAGAGGAAGACAA A G GAAAACCAGAGAAAGCCAACAGAGGAACCGGAAAAAGCAA A GCGAGAGAAAGGGGGGCCAAGAAGAGGACGGGAAAAGGCCC C G G A A G G G G G GCCAA $\mathcal{A} G G A G G G A G G A C A A G G C A G A C C G G G G G$ G GATAAAAAAAGGGGGGCCTAAGAAAGAAGAGGAGGGAAAGG G G GAGAAAAAAGGAACCACGCAGGAAGACGGGAAAAGGGGGA GAAAAGAGGGGAGAAGAGGAACCAAAAGAGACAAGGGAAGAG GAAGAAACAATAGACGGCAAGAAAGGAAAAAGGCGGGGAACA AGAAAAGACAGAGGGAGAAGGCAGGAAAAAAGGGAAGAAAAA
 GGGAACCCCAACCAAAAAAGAGGCCGAGGAGAACCGGAAGAG
 A G GCAAAAATTACGGAGGGAAAGAAGGAAGGGAABAGCAGAG G GAAAGGGGGGAAGGCACCCCAAAACAAAGGGGAAGCAAGAG GAACCAAAGAAGGAAGGAAGGGGGGAAAAAAAAACBAAAAAG G GAAGAAAAAAGAGGAGGGACAAAGGGAGAAAAGGGAAAGAG CAAGGAGAGAGCAAAAAGGAGGAGAAGGCGGAGAAGAAGCCC CAAGGCAGAAGGAGGCCAAGGCCGGAGAAAAAGAAGGGCGGA C GGCACCCCAAAAGGAAGGAAAAGGGGAAGGAAAGAAGAGAG G G G G G A G G A G A GAGGAAAGCCCCGGAGGGGGGGGGAAGAAAA C TAGAAAAAGGCAGGAAAAGGGGAAAAGGGGGGGGAAAAAAG $G C C A G A G G G A A A G A G G G C A G G G G A G C A A G A A G G G A G G G G G G G$ G G GCCAAGGGGAACACAGAGGAAGAAGAAGGGGAGAGAGCCG AA GACAGAAGAGAAAAGAAAAGGAAAGGAGAACACGAAGGAA
 A G GAA $A \operatorname{G}$ GAAAACCCAAGAAAGAAAGAAAAAAAAGGGGGGGGG G GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGACAGCACAA A G GAACCGGGAGGGGAAAAAAAGAGACCCAAAAGGAGGATAC C G A C C A GCCA G G G G G G G A A A A G G C C A A G G GAA A A C G A G G A A C C C C A G G G C C A A G G G G G G G G G G C C G G A A G G G G G G A A G G A A A A G GAA $A \operatorname{GGG} G A A A G C C A A G G A G A G G G G G G G A A G A G G A A G A T X A$ A A A G G A A A A C C A A G GCCGGGGCCGGGGGGAAGGAAGGCAAA G G G GAA A GCCGGAAGGAAGGGGAAAAAAAAGGCCGGGAAAGAA AAAGGAAGGGGAAGGAAGGAAAAGGAAGGAAAAGGGGAACAC C G G G G A A A A G G G GC C A A G G A A C C G G G G A A A A G GAAAA $A$ A G G A $A \subset C G G A A G G G G G G A A G G G G G G A A G G G G A A A A G G A A G G G G G G G$ GC C G G G G A A A A G G G G G G C C G G G G A A G G G G C C A A G G G G A A G G A AAAAAAAGGAAGGGGAAAAGGAAGGGGGGGGGGAAGAAAAAA AAAAAGGCCCCCCGGGGAAAAGGGGGGAAAAAAGGGGGGGGG GAACCAAAAAAAAGGAAGGGGAAGGAAGGGGGGGGAAABAAG G G GAAGGCCAAGAAAAATAGGAGCACACAAGGGAGAGAAAAG $G G G A A G A A G A A G G G A A G A A G G G G A G A G A A G G G G G G A A A A G A C$ CAA $A \operatorname{G} A A C C A A A A G G G G G G A A G C G G A G A G G G G G G G G G G B A G A$ A GAGGGGAAGACAGGAGAAAAGGGGGGAAAAGGGGAAGAGGG A A A A G G A G G A A G C A G G G GAA $A \operatorname{A} G A G G G G A A G G A A A G A A A G G G C$ C C C G G A G G GAA G GCCGACCAAGAAAAAGATTGGAAGGGGGGA A GAGGAAGACCGGAGACGAAAGGAAAAGCAAAAAGAGGACBC A G A A A G GC C A A A GAGACGGAAAAGGGGCAAAAAGGGGCAAA G $A G G G G G G A C G A G G C G G G G G G G G A G A C C A G G G A A G G A A A A G A A$

A A A G G A G G A GAACAACAGGGGCCGGGGGAATAAAAACAAGGG
 GCCAAGACCAAGGGGAGGAGAGACAAGGAAAAAGAAGGCACC CAACCAAAGAAGGGAAAGAGGGGGGCCCCCCAAGGAAGAAAG GAACCGGAAAACCGGGGGGAACCAAGGAAAACCGGAAAAGGG G G G A A G G G G G G A A G G C C G G A A A A A A A CAAA A C CA G G G G G C C G G G G A A C A A G G G A G A G G G G G A A G G A G A G G G C C G G G A G G C C G G A $A C C G A A A A C G G G G A A A A C C C C A G G G A G G A C A A A A A G G G A G G G$ GAGAAAAAAGGAAGGCCGAGGAGAGGGGAAAGAABCCBAGGG G G GAA $A \operatorname{A} A A G G G G A A G G G A A G A C T A G G G G C C A A G G A G G G A A G$ GAAGAAAGGAAAAAAAAAACCAGACAGGGGGAAGAAAAGAGG GAAGGAATAAGGAAAAGGGAAGGGGAAAAGGGAGGAGACAAA $A G G G G A G G G G G G A A C C A A A G G C A G G A A G G A A A G A C A A G G G A G$ $A C A G A G A A A G A G A G G A A A A G G C C G G A A G G A A G A A A A G G G G G A$ AAGAGACGGAGGGAAGAAAGAGAAGGGGAGAAGCAGAGGAGA A A G G G GA $\operatorname{A} A A G A A A G G G A G G A G A A G A G G G G G G G A G G A G A G G G$ GAAAGGGAAGGGGAGAGGGGGACACACGAGGGAGGGGAACCG A G G A A A A G A G A A A G GAA A GAAAGGGGAAAGGGAAA GAAAA GA AAAGGGAGGAGAGCCGGAGGGCAACAAGAAAAAAAAAGAAGA C GACA $A \operatorname{G} G \mathrm{G} A \mathrm{G} G \mathrm{G} A C A G G A G G G A G G A G A A G G A G G G G G G A A A A C$ CAAAACCCCAAAGGGAAGAGGAAGGGGAGAGGGGGGGAAAAC CAAAAGAAGAAAAAAAGGAAGAGAAAAAGAGAAAAAAAAACA G G G A A G G A A C C G G G GAAAAAGGAGAGACCGAAAAAGAAAAAA
 GAGGGGAGGCCAAAGAAAAGGAAGGAAAGGAAGCCAAGAAAG G G GAAAGAAGGGGCCGGAAGGGGAAAAAAAAAAAGGGAACCG A GAGAACAGGAACAGACAGACAGAAAGAAAAAAAAAAGGGGA AACGAAGAGCAGAAAACAGAGACAGGAAAAAAACCAGAAGGG
 GAAACGGAGAAGGGAGAAAAGACGAGGCCGGCCGGAGAAGAG G GAGGGGAGGGAAGGAAGGGGAAGGAAGGCCCAAGGGGAAAC CAA $A \operatorname{GA} A G G A A G G A G A A A G C A C A A A A G G G G G G A A A G A C C G A G$ A A A A A GAGGAGATAGCCGGAAAAAAAAAGAGAAGGAAGAGCC CAAAAGGAGAGGACAAAGGGGAAAAAAAAGACAGAGACAAGG G G G G G A A G G G G A G G A A G A A A GAAA A G GA GAGAGAAA A A G G A A $G G A A A G G G G G G G G G G G G A A A A G A A A G A A A G A G G G A G G G G G G A$ A G GAA AGCCAACAGAAGCCGGAGAAAAGGGACAAAACGGGGG A A A A A A A A A A A G GAA G GAAAGTAAGGGAGGGAGGAGGGAAGA A G A A A A A A A G G A A A A C C GAA $A$ AAGGGAAGGGGAAAACCAAGAG G G G G G A A A A G G G G C C G G G G A A A A G G G GAAAA A G G GAACA $\mathcal{A} A G$ GAAACCGAGAGAGAAAACCGAGAGGGACAACAGGAACACAGAG
 A A G G G A G G G A A G G G G G G G A A GC C G GAA $\mathcal{A} G G A G A G A A G A G G G G$ GAAGGAAGGAGAGGAAAGGGGAGGGAAGGAAGGAAAAAAGAG GAAAAAACCAACCGGGGAAAAGGGGCCAATTGGAGAAGAGAA A A A G G G G A A G G G G A A C C G G GAA A A G A A G G G G G G G G A G G G G G A CAACAGGCCAAGGGAAAGGAAAAAAGGAAAAAAGGAAGAGGA AAAGGGAGAAAAAGGGAGACAAAGCCCACCCAACCAAAAGGG G G GAAAAGGCAGGGGGAGGGGCCGGAAAAGGAAAAAGGAGGC CAAGGGGGACCCCGGAGAGCAGAAGAGGGTTGGGGAAGAAAA A G G G GCCCCAAGGAAGGAAAAAAAAGGCCGAGGAGAAAGGBA G G GAGCCCCGGACAGACGGAAAAGAAGGAGGAAAAAAAAAGG GAAAAGAAGAAAAGGCAAAAAGGGGAGCAAGGAAAAAAACCG AAAAAAACCGGAGGGGGGGAGAAGGCCGGAAGGGAAGAGAGG AAAGGCAAAGGAGCAAAGGGGGGAAGAGAAGGACCAAAGAGA G GAAAGGGAGGCAGGGAAAGAAAGGAAAGCCCCGAAGCACCB G G G A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A G G A G A A G G A A C A C C A G G G G G G G G G A$ G G GAAA A A A $\mathcal{A} G G G G A A A A G G G A A A A G G G G A G G G G G A A G G G G G$ $G G G A A G G G G A A G G C C A G G G A A A G G G A G A G A A C C G A A A G A G A G$

GAGAGGGGGGGAAAGGGGAAAGATAGATAAGAGGGACGGGGG G G G G G A A C C A A A A G G A GAGAAAA A GAAA A G G G G GA G G G G G A G GACGGAAGGAGAGGAAAGGAGCCCAGAAGCCCCAAACAAACA AA $\operatorname{G} A A A G G G A A G G A A A A G G C G G G A A G A A A A A G G A A A A G A A A C$ $C G A C C A C A G C C A A G G C C A A A A A A A G A C A G G A G A A G A G A T A G A$ G G A G G A A C A G A G G G G A G G G A A C A G G G G G G A A G G A A A A G G C C A G G G A A A G A A A G G GAACAAGAGAACCAAGAAACCAAAGGACAA A G G G GCCAGAGAAAGAAAGCCAAGGCAGGGGAAAAGA
CAGAGAAGGAAGCCCAAGAAACGAAGAAGGAAAAGGGGGGG GGGCCGGACAACCAGGGCCCCCCAGAAGGAAAAAAAACAAAA A G G G A G G A G A A G G G G G G G G C C G G T T A G G G G A G G G G A G G G A A A GAAGGATGGAAAAAAAGAGCAAAGAGCAGAAGGGGAGAAAAA
 GAAGGCCGGGGAAAAAAAATTGGAGAGCCGGCCGGCAAGGGG GAAAACCAAAAAAAAAAAAGGGGAGAAGGAGGGGAAAAGGAG A A A G G G G G A A A G G G G G G G G G G G GAGAGGAAAAAG GACAAA G $A$ GAA $A$ A A A G GAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A G A G A G A C G G G G A A G G C A A A G G G$ AAAGAGAACAGAAGAGGAGAAAAGGAAGGGAAAACAAA GAAA $G G G A A C C G G A G C A G G G G A A G A G G A G G A A A G G G A C A A G A A G G G$ G G A G A A T G A A G A A G A G A A TAA $A \operatorname{GA} A G G G G G G G A A A A G A G A G A G$ $G T T A C G G A A G G G G G A C C G G A A C C G G A A A A A A G A G G G G A A C C G$ GAAGGGGGGAAGGAAGGAAAAGGCCGGAAGGCAGGGAAGCCG GAAGGAAGGAAAATAGAGGGAGGGAGGAGGAGAAAAAAATXC GAAAGCCAAAGAGAGGGCCAAAAAAAAAAGAATAGAGAGGGG $A G G C C G G G G G C G G G A G G A G A A A A G G G G G G A G A G C C A A G A A G A$ $A C C G G G G G G A A A C G G G G A G A G A G A G G G A G A A A A G G G G G G C A A$ TGGGACCAAAAACAAAAAAGGGGGGGAGGACCCGGAGAAAAA A ACAAAGGAAGGGAAGGCCAGCAAGGGAACCGGCCAAGGCCG $G C C C C A G A G G G G A A G G G A A A A A C G A A G G A A G G G G G G A A G A C G$ G GAGACAGAGGGGCAGACCCAGCTACCGAAAAAAAAACAAAA A A A C C A A A A A A G GCCAAAAGGGGAAGGCCCCAAAAGAAAAAC $C G G G G A A G G G G G G C C A A A A A A A A G G C C G G A A G G C C A A A A G G G$ GAAGGGGGGGGAACCAACCAAAGTTGAAGAGAAAAAAGACCA A G GAAAAAGAGCCACAGGGCCAAAAGGAAGGGGGGAACACAA CAACAGGGGGGAGAGGAGGAAAACCGGGGGGAGGGAGGAAGA A A A G A A A A A A A G G A G G G G G G A A A A CAA A G A A G A G A A A A A G G A AAAGGAAACGGAAGGAAGGAACCAAAAGGGGGGAAAAAAAAA A GAGGGACAATAAAGGAAAGAAAGAAAGGGGGGAAAAAAGAAA G G A A A A A G G A A A A A G G GAA $A$ A ACATACCGGCCGAAAAC GAGAA GAAGAAGGGCAATGGGGAAAAAAGGGGACCAAGGGGGAGAAA C GAGAGAGAGACCAAAACAAGGGAAAAAGGACACCAAGAAGG G GAGAAGCCAAGGAAACGAAAACCCAAAGGAAAGGGAAAAAA AGGGGGAGGAAAAAAAAGGCACCAAAAAACCGAGGGGGGGGG $A C C G G G G A G C C G G A G A A G A G G G A G A A G A A A A C C A A C C A A G G G$ G G GAGGGCCAGAGGGAGGCGGAGAAAAGAAGGAGAAGAACAG GAATTCCGGACAAGGGGGGGAGGCCGGGGAAAAGBAACAAGG GAGGGACGAAGAGGGAAAAAAGAGGAAGGCCCCCAAGGAGAA A G G G G G GAACCAAAAAATAAGAAAAGACCGGCCAAAAGGGGG AAAGACAGAAGAAGGGACACCAGAGGGAAGGGGGGAAAAAAG A G G A G G G C A A G G G A A A A G G G G G G G A G G G G G A G A C C A A G G A A G
 AAAAAGGGGCCAGGGAGAAGAGGGAGACCAAGGAGGGAAAAA A A G G G G A G G G G G G G G A A G A G G A A A A A A G G C CAC G A G A G A A G G AGGCACCGGAACCGGAAAAGAGAAAAAAAAAGACCGACGCAA A G GAA A GAGAAAGAAAACCGGACGAAAGGAAGAAAAAGAAAG GAAGACCAGGGATAGAGGAGGGCAGAGAAGGCCAAAAGAAAA G G G G A GAGGCCAAGAGGAGAGCACCGGCCGGAAAAGGAAA GA AAAAGAAAAAAAAGGCCAGAGAGACGAGGCCAGCCAAGGGGC $C G G G G G G A G A G G A A A G A A A G A A G A G C C A A G A A G G A C C A A A G G$

ACAGGAGAGGGAAAAGGGGGGAAGGAACCAAGGGACAGGGGA GCCGGAAGGAAGGAGCCAGGCAGAGAAAAAAAAGGGAAAAGA A G G A A G G A A GAAGGGGGAGACCCGGAACAAGGACCAAGAAAA A A A G GCCAGATGAAAAGAAGAACACAACCGGGAGGAACCGGA A G GAA A A GAGGAGACAGGGGGGAGGGAAAAGGGACAGAAGGG

 GAAGGGGAAAAGGAGGAGAAAGGAGAAAAGGAAGGGGGAGA G $G G A A A A A G G A A G G A A G G C C G C G A A G G A G G A C G A A A A A G A G G G$ CAAAAGAAAAAAAGGCCGGGGACGGAAGAGAAAAAGAGGCCA C G GAGAGCAAGAAGGAGGGAAGGCCCCGGAAAGAAAGAAAGG G G G GAGGAAAACCGGAAAACAGAAAAGGGAGGGAAAACAAAA A G G A A A A A GAAAAAAGGGAAGTAAAAAAGAGGGAACCAAGAG GAAGGAAAAAAAAAAAAGGAGAAAACCACGGAAGAAGGAAAG GAACAAGGGGGGGGAAGGGAAGGAAGAGAGGAGCAAAAAGAA A G G GAAAAACCAAGCGGGGAAGGCCAGGAAAAAGGGGGBCAA ACAGGAAAAAAGGAAAAAAGGAGGGCCGGAAAGGGGGACGAC C G G A A C C A A A A G G G GAGGGGGGGGAAACCCCAACAGAGAACG GAGAGAAAGAACAAAGGGAGGAAGAGGGGAACCGGGAAGAGAG
 CAGAGGGAAAACCAAGGGGAAAAAAAAGGGGGAGAGGAAGAG A A A A A A A A A A ACCAGAAAAAGGGCAGGAGGGGAGAGGCAAAC C G G A A A G G GAAAAAAAAAACAGAGAAAGGAAACAAAGGAGGC GAAGGAAGGGGCCGAGGAGAGAGGGGGGGGGGGGGAAGAAAG A GAAACCGGGGGGAAGGAAAAGGCCAAATAAGAGGGGCAAAG GAAAGAGCCAACGAGAAAGAGCAGGGAAGGGGGGGGGAAGGC C GAAACCAGCCAAGGACAAGGAAGGAAAAAAAAACAGGAAAA GAGAGAGCAGGAACCCCGGAGCCAAGGGGAGGGCCGAAAGAA A G G A A A A A GACA $A$ A A A G GCC GAGGAGAGAGACGGGGGAGAGAG ACAAAAAAAAAAACCCCGGGGAAGGCCCCAGGAGATAGAGAG A G G G G G G A A A G G G A A A G G G A A A A A GAAAAGGAAAACCCAAAA AAAGGGGGCCAACAGCAGGAAAGAAAGAGAGAAAGGGGGAGAA A GAAAAGAAGGGGGGAAAAGGAAAGAGGGAACCGAATAAAAC C C C A A A G G G G A A GCCAGCAAAAAGGGGAACCGGAAGGCCGGG GAAGAAAAAACAAAAAAAAGGGGCCAGGAGGCCCCCCCAAGA AAAGAGGAAACGGGGAGGGGAAAAAGGAAGGAACCAGGAAGG A A A A A A A GAGGGGGAAAAAGGCCCCGGAAAAAGCCAGAAAAC C GAAATTAAAAACGGAGGAAAGAAAGGAAGGCCAGAGAATAC A A A G G G G G G A A G G G G G A A C G G T A C C A A A A A G G A A A A A G G A G G G G G G G A G A A A A A A G GCCAGAGACCCGGAAGGAA GAAAA G G G A
 G G GCCAGAGCAGGAAGGAAGGGGAAGGGGAGAAGCGAAGGAA A G G G GCAGGGAAAAACCGGGAAGGGGAAAGGATGGGGGAAGA A A A CAGGGAAAAAGGGGAGACGAGGGGGGCCACCAAGAAGAG A GAAATACCAAAAACAGGAGGGGGGAAGGAAAGGGGAAACAG GAACCACCCAGAAGAAAACGGGAAAGAGGGAGGGGGGGAGAG G G G C A G G A C A A C C G G G A G G G A A G G A GAGGGGCAAA GAC C G G C C G GAA $\operatorname{A}$ GAAAAGGAGCCAGGAAAAAAAGGGAAGAGAGGAA GA $C G G A A A G A A G G G G G G G G A G G G G G G G A A G A A G A A C C G G A A A G A$ $A C C A A A G A G T A A A A G A A A A C C G G A A A A A A A C G G C C G G G A A G A$ GAAGGGGAGAACCGGGGAGAGAGGGGGAAAAAAAATXAACCG GAAGGAAGGAAGGACGGGAGGGGAGGAAAAAGGAAAAGACCA $A C A G A G G A G G G G G G G A A G G A G G G A C A A A A A A C G G G A G C C G G A$ A G G G GCCGGAGAAAGACAGCAGGAAAGAAACGAAGAACAAAA AA GACAGGAAGCCAGAGAGAAAAGAGGGAAAGAAGGGGAAGA AACGGCAAAGGAAAAGGCGAAGGGGAAACGAGGGAAAGGGGA
 G A A G A G A G A G A A G G G G G A A G G A A A A A A G G G GA G G G G G G GA C C AAGAAAGAACCCCAAGGAAGGGGGAGGGAGGGAAAAAG GTXA

GAAGGAAGGAGACGGAGAGCCAAAAGAGGCAAAAGGGGGGGA GAAAAAACCCCAGAGGGGGCAAACCCAAAAGGAGGAAAGAGA G GAGGGGGAGAAGCCAGAAAAAAACACAAGGAAACAGCAAGC A A G GAA A GAGAGGAACAGAGGGGGGGGCCGAGGGAAAAAGAA G G GAGGGAAAAAAAGACAGGGAGACGGAACCGGAGGAAGGGG GACGGGGGGAAAACCAGAGGGAGGAAAAAGAAGGGGGCAAAA A A G G G G A T T G G G G A A A G GAA A A G C CAAAAAA A A A A G G G GA G G G GAAAAAGGAGGGAGGGAAGACAAGAAAAAAGGGGCC
AGCCAAAGAGGAAACCAAGAAAGGAAGGAAGACCACAAGCA $A C C A A C C A A A G G G G A T A A A A C G G G G A G A A A A A A G G A A G G A G C$ A A G GAAGGAGACCGGGGAACCAAGGAACAGGAAAAGGCAAAG GCCAAGGAAGGCCGGCCAAGGGGGGGGAAAAAAAAGAAAAAA A G G A A A A A A A A A A G G G G A A A A A A A A G G G GCCCCGGGGAAG G G G G G G G A A A A G G A A C C G G G GAA $A \operatorname{ACCCGGAACCAAGGAAAAGGA}$ A G G G G A A G G A A G G A A G GAAAAGGGGGGAAGGAAAAAAAAAAG GAAAAAAAAAAAAAGGAAAGAAGAAAAAAAGGGAGAAGACAA AAAGGAAGAGGAACCAAAAAAGGAAGAAAAAAGAGGAGACBA
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 A A A G G A A G G G G G G G A G G A A G G A A G GAAAAC A A A A C C G G G G G A G GCCGGAAAAGGAAAAGGGGAAAAAAGGAGCCGAGCAAGGGGA A A A G G G G A A A A G G G G G A C C A A G G G G G G A G G G G A G G A G A A A G G GAAAAAAAGACAAGAGGAAGGACGGGGGGGGGGGGAAAAGAC CACCCGGAGGGAAGGAAGAGGCAAGGGGGCCAGAGAAGAAAA A G G A G G G A G G G A G G A G G G A A G G G C C C A G G A G G G G A G A A G A G G A G G G G G G G GAGAGAGCAGACCCCGAGGGGGGGGCCAACCGGG G G GAACCCCCCAAGGAAAACCGGAAAAGGGGGGAAAAGGGGA GCCGAGGGGAGCACCGGCAGAACGAAGCCGAAACAGGGGTTG G G G G A A G A C G G G G A C A A A G GAAA A GACAA GA A A A A A CA G G G G G G G A A G A A A A G GAA $A \operatorname{G} G A G G A A A A G A A A A C A A A A G G A G A A G G G$ G GAGAAGACGAAAGGAAGGGGAAAAGAACGGGAAAAAAGAGG G G G GAGGCCAAAGGGGGGGAAGGGGAACCGAGGGGGAAGAAA G G G A A C C A C A G G G A A G CAGGGGGAAGAGAACGACCAAAAAAA A A A G A A A A C G G A C A C G G G G A A G G G G G GC C A GACAAAAC GA G A C GAACGAGGGGGGAAACAGAGACGGGAGGACGGGAAACAABA $A C C G G G G A A G A A G A G G A A A A A C A A G C A A A G G A A A G G G G A G G A$ AGGAAAAGGAAGGGGAATTAGGGAGGAGAAAAGGAGGCAAA G G G G G G A A G A G G A A A A A A A CAA G G GAAC GACCA GA G G G GA G G G $G C \subset A G G G A A A A G G G G A G G G A A G A G G A G A A G G A A A A G A A G A A A$ GAACCGAAGGGACAGAGAAGGAGTTAACCGGAACCGGGGGGA
 A A G G G G G G GAA A GAACCAAAAGGGCAAAGGGCCGGACAAAGG CAAAGACGGCCCAAACCGAGGAAAAGGGGGAGGGGAAGAGGG GCCTTGGAAGGAAAAAAAGAAAAGGCCAAGGAAAACCAAAAG G GACCGGGGAAAAAAAAGGGAAAAAGAAGGAAGGGGGCAAAA GAACAAAAGAAAAGGACGGGGAACCAAGGAAAGAAAAGAGAA
 $A C C A G A G G G A A A A G G A C A G A A C C G G G A G G A A G G G G G G A A A A G$
 G G G A A G G G G G A GACCAAGGAAGGGGGAGGGGAGGGACAA G GA C CAGGGAAGGGAACAAGAGAAGAAGGGGAGGGAAACCGACAG A A A A GCAGAGAAAGGCCGGGAAGGGAGAAAAAAAAAAAAGAG GAAGGAAGGGGAACCGGGGGGAAGGGAGAGGAGGGGAAGAGA

GAGCAAGCAAGCAAAGAAAAGAGAAGGCAAAGGAGGAAAGAA $A G G A A G G G G A G G G G C G A A A A A G G A A G G G G G A C A A A G A G G G G C$ G G GAAAAAAGGAAAAGGGGAGAGCCAGAGAAGGGACCAGGGA $A C C G G G G A A C A G A G A A G G G G G C A A G A G A G A G G A G A A A A A C A A$
 A G G G G A A A A A A A A G GAA A GAGGGAAAA GAGAGGGGAAGACAC A G G A G G G A G GAACACGGCCAGCAGGAAGAAGCCGGCCGGGGG G G G G G G G C C A G A G G A G G G G A A G G A A G GAGGGGGAA G G A A G A A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C A A A A A A G G G G G G G A A A G G A G G B A A G A G$ G GGGACAAACACAAGGGAAGGAAGGAAGGAGCCGAGGGGGGA GAGAAAACCAGGGAAAAGGAAGGCCGGAAGGAAGGAAGAAAA A A A A A GAAA A G A G G G G A G G A G A A A A A ACCCAGAAAAAAAG GA GAGAAGGGGGGGGAAGACCCCACAAAAAAAAAAGGCCAACCG A G A A A A G A A G G A G G G C C G G G G G G A A G G G G G G G G G G A A A A G G G GAAGGCCCCAAAATTGGAAGGCCAAAAAAAAGGAAAAAAAAA A A A A A G G G GAA $A G G G C C C C G G A A A C G G A A A A A A G G A A A G A A A$ G GAGAGGGGCCGGAAGGCCGGCCGGCAAAGAGAAAAAAAGBC CAA $A \operatorname{GA} A \mathrm{~A} A \mathrm{~A} G A C A A A A A A G G C C A A A A G G A G G A A G G A G G G G G$ AAAAGGGCCAGAAGGAGGGGGGGGGAAGGCCGAAGAGCCAGA GAGGGGGAGGGCAAGACAGGAAGGGCCGGAGGGGGACCCCCC $C G A A G G C C C C C A A A A A A C G C A A A A A A A A A G G G G A G A A A G G G A$ GCCGAACAGCCAAAAAGGAGGACGGAAGGAAAGCCAGAAGGA CAAGGGAGGGACCGGCCAAAAAAGAAAGGGGAAAGAAGAGGA GAAAAAAAAACGGGGCCAGGAAAAAAAGGAGAGGGAGAGABA G G GA $\operatorname{G} G A A G G G A A C A G A G A G G A C A A G G A A G G T T A A A G A A G A G$
 ACCGGGGAAAAGGAAGGAAAGAGAGGGAAAAAAGACAGAGGG
 C G G G A A A A C G A C C C A G G G G A A G A A GTTAC GAGGGAAGCAGA G GAAAAAAACGGGGAGCCGGAGGAAACAAGAGGGAGAGGAABC A A A C C G G C C G G A A A G A GAC GA G G G G G G C A C C G G A A C C G G G A G G G G GAGCAGAAGGGGGGAAGGAAGGGGGGAACAGAAGAAGGG AAAGGGGGGGGAGAAAGGACAGGAAAGGAAACCAAAAGGGAA A G G G A G A A A G G G G G G T T G G C C G G A G A GAA A A GA G G G G G G C C C CAGCCAACCAAAAGGGGAAAAGGCAGGAAAAGAGGGGAGABA C G G G A G A G G A A G A G G A A A A G G C C G G G G A A T TA A A G G A A C G G G AAGGAAAAAAAGGTAACAAGAGGGGAAGGGGAAAACCGGGGA CAGGGGGATCAAAAAGGGGACGACCAAGGAACAAAGGCAAAAA AT T G A A G G G G A A TAAACGGCCAAAAAGGGGGAGAGAGGA GAA A A A A GAGGGGGAAAAAAAAGGAAAACCAAAGGAGBAAGGGAA AAGCCGGCGCCAGAGGGCAAAAGAACCGGGAAGAGAAAGGAA C G G A A A A G G A A A A G G G G G G G A A G A C G G A G A G G G G G A A G G G A G AAAAAGGGGGGCCAGAAGGAGCCGGAAACAGGGAAAAAAGAA G G A A A G G G G A A G G G A G G A A G G G G G A A G G G A A G GAAC A A G A G G GAAAAAAAAAAAAAAAAGGGGAAGGCCGGAAGAACGGGGGGA G G G A A G G G G A A A A A A A A GAGGAGAGAGGGACAGCCAAAAAAG GAAGGCCAAAACCCGGGGGAGGGGGCCAAGACAGGGGGGAGG GAGAGAAGGAGGGCGAAACCCAAAAGGGGAGAGAGGAAAAAA CAAAAGAACGGCAAAGGGGCCGGAGGAGGGAGAGGGGAAAAG GAGGGGGCCAGAAGGGGAAGGAAGGAAGGAAAAAAAGAAAAG GAAGGAAAACCGGAAGAAAAAGAGGAGGAGGACGAGAAGAGG G G G G GCCAAGGAAAAAGTACCACGAGGAAAAGAGGGAAAGGG GAAACGGAACCAAAAGGGACCACGAAAGAGAGGAAAAGAAAA A G GAAAAAAGGGAAAGGAGGGGGAAGGAAGAAGGACACAAAA $A G G C C G G A A G G A G G A A G G A G A G G G G G G G A G G A G C C G A A A C A A$ ACCGGCCAAAAAAGGAAGGAAAGGGAGACGGGGAAGAAGAGC C G G G A A C A GA G A G A G G A A G GAA $A \operatorname{AGAAGGGAACCGGACAAGGG}$ G A G G A G G G A A A G G G G G GA GAGACAGGGACAAAAGGGGAAA GA $G C C A A G G G G G G C C G G A A A A G G G G A A G G A A G G A A G G G A A A G A A$

C G GCAAGGAGGAAGAAGAAGAGACAGGGGCCAAAAAACCCBA GAAGACAGAAAGGGGGGAGAAAGGGGAAGCCGGACAGGAAAG G G GAA $A \operatorname{GGGAAAA} G G A A G G A A A A A A A C G G A C A A A A G G A C G G C$
 G GACAAAGGGGAGACAAAGAAAGGGAGAGGAGGAGGGGAAAA G G G G G G A A G G A A G G G G G C C A A G G A A A A A A G GAGGGAAA G G A G G G G G G G G A G G G GA $\mathcal{A} G G G G G A A G G A A A A A A A G A G A G A G A G G A A$ CAAAGAGAGAGAGGGGGCCAAAAAAACGGCCGGAGAG
AAGGGGAAAACAGGGAAAAAAGGAAGGGACGACCAGGGGGA AAAACGAGGGGAAGGCCAACAAGAAAAAAAAAGAAAAAGAGA A G GAA A GCCGGAAAGAAAGAGAGAAGGGGAACAAAAGGAGGA AAAAGAGAGAAAAGGCAGGAAAGGGAGGAAAGGGGAAAAAGC A G G G A G G G GCCCCCCGGGGCAGGAAGAGGCCAGAAGGGAGGA G GAGAAAGGGGGGAAAAGGGGGGAGAACCGAAAGGGAAAAAA GAGGGGGAAAAACGGAGAGAGAGAGAGAGGAAAGGGGGAAGA $A C C A A G A G G G G A A G G A A G G A A A A A A G G A G A A A A G G T T G G G G A$ G G G G G A A G G G GAACCCGAAAGAGAAAAGAAGAAGAAAAAAAG G G GAACCAAGGAAAAGGGGAGGGACGGGACCCCGGGAGAGAA $G C A A G G G A A G G G G G A G G A T G A G G A G G G A A A G G G G A G G G G G G A$ TAAAGGGCCGGGGAAGGAGAGAGGAAGGGAAGAAGGAGAAGA $A C C G G A A G G A A A G G A G G A G A G A A A A G G G A C C G C G G G G A G A G A$ GAGCCAGGGAGGGGGCCAGACAGAGAAAAAAGGAAAAGGGGG AACAGGACCAAGGACGGCCAACCGGAGAAAAGGGGGAAGGAG AAGAGAGAACCGGGGAAAAGGAAAAGGGGAAGGAAGGAACAG GAGAAAACCGGAAAGGGGGGGGGGAGAGGGGAAGGGGAAAA G GAAGGAAGGAAGGACGAAAGGAGGGCAGAACGGGGAAGGGGG GAAAACAAGGAGAGAAAAAGGGGAAAAACGAGGAAGAAAAAA $C G G G G G G G G A A A A G G C C G A A G G A A A A G A A C C A A G G A G G A A A G$ G G GACCAAGAGAGGGAGAGAAGGGGAGGAAAGGGGGGAGAAA AAAAAAAAAGGGGGGGGGGAAAGAGGGGACCGGAGGAGACAA A A A G G A A $\mathcal{A} G G G G G G G A A G G G G A G G A G G G G A A A A G G A A A A G G G$ GAAAAGGGGGGAAAAAAAAGGGGAAAAGGACACAAACAAAGG GAGCAGGCAAGGGGCGGCAAAGGAAAGGGCCAGAAGAAGGGG GAGAGACAGACGGAGCAGGGAGGAGGGAACCGAAGGC GAATAA CAGGAGGGGAAAAAAAAGGAAGAGATTAAAAGGGGGGGGGAC CTTACAGGAAGGGAAAGAGGAGAAACCGAGAGACAAGGGGAG A GAAAAAGAGGACAGGGGACCGGAAAAAAGGCCGAAGGGAGAA GAGGAAGGAAGAAAAAAGGGGGGGAGGAAGGAAGAAACACAA $A C C C C A G A A A A G G A G C A A G A A G C G G G A G A G G A A A A A G G A G G A$ GAA $A \operatorname{A} A A A A G G A G G G G A A G A G A G A A G G C C G G A A G G G G A A G B A$ AAAGGAACCCCAGAAAGCAAAGGAGAACCGAAAGGACAACCG GAAAAAAAACCAACCCAGGGGGGAGAAGAGAAAGAGGGGCCG GAA A G G G G GATAAAAGGAAGGAACCGGGGAGGAGGGGAAGGG GAAAGAGAAAGAAAGGAAAAAAGAAGGGGGGGGCCAAGGGGA A G G G G A A C CAAAA A G G GAAAAAAAAAGGGGCCAAAAGGAACAG $G C \subset A A A A A A A A C C C G G G G A A A A G G A A G G A A A A G G A A A A A A G$ G G G G G G G G G G G G G G G G G A A G G A A G GA G C C GAC C C C A A G G G G G G G G G G A A A A A A A A G G G C C A GAGGGGGGGAGAGAGAAAA G GAA A GAAA A ACCAACCAAGGAAGGGGAAGGAGGAAAGGGGAAAAA AAAAAGGGGGGAAAGAGGAGCAGGACGAAAGGAAAGGGGGAG $A C C G A G G A A A C A A A G A A G A C C G G A A G A A A A A C G C G G G A A A A G$ GAAAAAAAAGGCCAAAGAAGGAAGGAGCCGGGGAAAGAAGAA A G G A A A G A A G G A G A A $\mathcal{A} G G G A A G A G G G G A A G G G G A A G G B A G G G$ G G GAAAAGACCAAAGGGAAGGCAAGCAGAACAGGGGGAAAAG GAACCAAGGGGAAAGAAGGAAAAGGGGCCGGAAGAAAGGGGC C G G G A A G G A A A A A CAACAC GAGAGGAGGGGAAAAAGGAAG GA

 AAAACGGGGAGCCAAGGAGGAGGAAAAGGAAAAAAAGAAAGA

GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G A \operatorname{A} A A A G G G G G A G G G G G G A G G G G C C G G G C G$ G G G G G G G A C G A G G A A A G G A A A G G G A A G G G C C A A A G A G G G G A A A G G A A A G G GCCAAAAGGGGGGCAAAAGCAAGACAGCCCCCBA
 A G GAAACGGAAGGGGAAGGAATTAAAAAAAAAGGGGGGGGGA GAAAGGAGGAACCAAGGGGAAAGAGGAAAAGAAAAATCAAAG G G G G A A C G A A C A A G G A A A A A A G GCC GAAACCGGGGCCCAAGA $G C A A G A A G G G G G A A G G G C C G G G G G G G G A A A A A A A A C C A G C A A$
 G G GAAGGAAAGAGAGAACGACCAAGGGAAGGGGACCCCCAC G A G GAGCAGGAAGGCCAAAAAAGGGGATAGGGAAGGAAGACAC CAACCAGAAACAGCACGGGGAGGGGGGAAGGGGGGGAAGGGG GAGCCCCGGAACAAGAGGGGGAACCAAAGAGGGGGGGCCGGG A G G G G GCA GAGAAAACCGACCAACCGGGGGACCAAAGCCGGA GAGAGGGCGAAGAGAAGGAAAAGAGAAGGGGAAACAAAAAAA GAGGGAGCCAAAAGGGAAAGGAAAAGGTTCCGGGGACCCGGA
 AAAGGGGGGAGAGGGGAAAGAGAAAAAGGAGGAGGGAAAAAC GACGGGAGGGGGGGGAGGAAGGGAGAGGAAGGAGAAAGAAGA GAAAAAAAGAACAGGGAAGAGCCAAAAGGAGCCCCBGGGGGC C G G G G G G G A A A A A $\mathcal{A} G G G G G C A A A A G C A G G G A A G G G G G G G G G G$ A GAACGGGGAGAAAGGGCCGAAAGGAAGGAAAGAAACAAAGG G A A A A G G G A A G A G A G G G A G G A G G G GAA A A C G C C A A A G G G A A C A G A A G A G A A G A G G G G G G G G G G A A C C G G A A C A A A A A G G T T G A G A G A A G G G G GCCCCAAGCAAAAAAGAAAAGAAAAAAGAAGGGAG A GAAGAGAAAAAACAAGAAAAAACCAAAAGGCCAAGAAAGAG $G C \subset C A A C G G G G G G G G G G A G G A A A C C G G A G G G A A A A G A A A A C B$ A G G G A A A A A GAGGGGACGAGAGGGGGACGAAAAGGAGGACCG A G G A C G G G G G G A A A A G A A G A A G G G G G G A G G A G G C A G A A A G G A CAAGAAGGAGAGAAAGGGACCGGGGAGAAGGAAGGCAAAGAC C C C G G G A A A G G GAA A A GAACAAAGAACGGGGCCGGAAAGAGG A G G GAA A A GAAGGGGGGCACCGAGGGGAAGAGAAAAAAAGGC CAAGGGAGACCGGGGCCGAGGACGACCAAAGAGAGGGAGAAA A G G A A G A G A G G A G G G CA A A A C G G G G A A G G A GA G A A G G A G A G G A G G G G A A C C G A A G A GAGAA $A \operatorname{AGGGGGGGAAAGGGGGAAAAAAG}$ GAAGAAAGGGGGAGAAAAGAGGAAAAGGGGGAGAAAAGGGGA A G G A A A G A G G G A G A G G G G G G G A A GAGATAA A A C G GA GAAAAA A A GAA A A G G G G G GAAAGGGCCGGGGAAGAACGGAGAAGAGGC CAAAAGGAAGGAAGGAAAAGGGGAAGGAAAAGAGAAGAAAAG
 GACAAAAGGGGAACCAAAACCGGAAGGAAGGAAAAGGGACAA
 $G C C A A G G A G G G G G C A G A G A G G G G A A G G G G G G G A A A A A A G G G C$ C G GACAAAGGGAAAAAAGGAAAACCAAGGGAGGAGCCAACAG GAAAGGGAGTTGGAGCCGACACCGGAGCACAAGGGGAGGGGA A A A G G G GACAGAGGGAGGGGACCGAAGGAGGAAGAAGAGAA G GAAAAGGGGGGAGGAAATTAAAAGGAAAAAAAAAGAGGGGGA A G G G G G GC C A G G G G G A G G G G G A A G G G G A A CA A A A G A GAA A G T TCCAAGGGGAAAAGGCCAGGGAAGGGGGGAGGGAAAAAAAAA A GAA A GAAAGGAAGGCCAAGGAAAAGGAGGGATAAAAAAAAG GAA A G G G G G G G G G G A G G G G G G A A A A A A G A C C G G G G A C G G G G A AAACCAAAGAAGAAAGGAGAAGGAAAAGGACGGAACABAABG GAAAAAAGAAAGGGGGAGGGGGGAAAAGGGGGGAAGGGGGGG GAACGGGAAGGAAAATXCAAGGGGGGACCGGAAAAAACAGAG A G GA $A \operatorname{G} G A G G G G G G A A C G A G A A A C C A A G G A A G A A G A G A A G B A$ CAAA $A \operatorname{A} \operatorname{A} C \subset G G C C G G G A G G G G A G G G A G A G A A A A A G G G G A A G A$ A G GAA A G A A A A C C C C G G G G G A G G G A G G CAAAGGAACCAAAAA
 AAGAAGGGGAAGGAGGGAGGAGGGGGCAGGGAAAAAACAAAC

AAAAGGGGGGAGGGAAAAAGGAGAGAAAGGGCACCCCAAAGA GAGGGCCAGGGAGGAAAGGAGAGAAAGCAAGACGGGAGAA GA A G G G G G G A G G G G G A A A G G G A G A G G G A T G G A C G A A A G G G G G G C C GAGGGGAAAAAAAAAAAACCAACAGGAAGAGGGGAGAAGAA AAGCAGAAGGAGGGGAAACAAGGGAGAAGAGGGGGGGGAAGA A G GA $\operatorname{A} A A A A G G G A A A A C A A A G A A G G G G A G C A G A G G A G C A A A G$ GAAAAAAGGAAGGGGGGGGCCAGGGAAGGAAAAAAAAAGGCC $A G G G G G G C C G A G G A C G G A G G G G C C A A G A A G G C C A G C G$
 CAAGGGGACGGAAAGGAGGAGGGAGGAAGAGAGGGGGCAGAA GAACAGAGGGAAGGGGGAGGGGGGGGGGGGAAAAAGAAAGAA A GAGACCAAGAAGGGAGAGAGAAGGAAGGAAGGCCAAGAAAG G G GAGAGCCAAAGGAGGAACACCAAAGGGGAAGCACACAAGA GAAGGAAAAAAGGAAAAGGGAAAAGGGGGAAACBAAAAAA GA G GAAAAGGGACAAGGAAAGGGAGAAAACCAGAGGGAAAAGGG G G GAGAAGGAAGGGGAACCGAGAAGAAAAGAAAAGAGGGGGA GAGAGGAGGAAAGGGGAGGAAGGGAGGAAAGGAAAGAAACAA AAACCGACCAAAGAAGGCCAAAGAGAGAGGGGGGGCAGGGAA GAAAGGGGGGCGAGAGAGGGAAACCAAGGAGGGAGGGCCGGA GAAG $A$ A A $A \operatorname{G} G \mathrm{G}$ GAAAAAAAAGGGGCCAAGGCCAAGGGGAAGAA $A C C G G A A G G C C G G A A G G A A A A G G G G A A A A A A A A A A A A G G G G A$ A G GAAAAGGCCGGGGAAGGGGAAAAGGCCAAAACCCCAAAAG G G G G G A A G G T T G G G G A A A A A A A A G GAA A GAAAAAAAAAAACAC C G G A A G G A A G G A A G GAAAA A G GAAGGGGAAAAAAAAAACACCG G G G G GCC G GAAAA A G G G G G A A A A A A A A A G G G GAA A G G G G G A A $G$ GAACCGGAAGGGGAAGGGGAAAAGGGGAAGGAGGGGGAGCAA GAAAAGAGGGGGAGGCCAGGGAAAAGGGGAGGAGAGGGGGGG GAAGGGGAAGGAGGGGGGAAAAAGGGGAAGGAAAAAGAAAGAG GAATAAGGGAAAAACCCGGAAGAAACCAACCGGGGGAAGAAA AAAGGGAGGAAGGGGGGCCAAAAGGAGATATGGGGGGAAGAA A A G A A A A C CA A GAGGCCGGACGGGAGGGACCGAGGAAGGGGA AAAAAAAAAGGAAACGGGAGAGGGGCCAACCGGAAAGGAAAA GACGGGAGGCAAGAAACAAACAAAGAAAAGGGGAGAACAAGAA TA GAACC GAGGAAAAAAAGCACCGAGGGAGGAAAACCGGGGG A G GAA A G G G G GAAA A G $A$ AAAAAAACAAAAAAAAGGGGGGAAAA G A A A G A A A A A G A A A GAAGCCAAAAGGAAAAAACCGGGAGAAGG $G C C A G G G A G A A A A A T G G A A A A A A G G A G A A A A C A C C G G C A G G G$ G G GAAAAAAAAAAAGCAAACAGAGAAGAGGGGGACGGAGTTAA A A A A A G G A A AC G G A A A GAGAGCAATGACCAGAAA GAAAAAAC CAAAA $A \operatorname{A} A A A G G G A C C A A G G A C A A A G A A G G G G A A G G G G G C G A G$ GAGGAAGGGAAAAGGGGAAGGGAAAAAAAGGAGCAAGAAAGAG GAAAAGACCGGGGAAAGGGCCAGAGAAGGAAAACAGAGAGAA AAAAAACACGGGAAGGAAGAACCAGAAGGGACCCCGAGAAAG GAAAAAAAAAAAAAAAAAAAAGAAAGAGGGGGGGBAAAAGAG GAAACAGGAAGAATAAAGGGAAACCAAGGAAGAGGGGGAAAA
 A G G G G A A A A G G C A G G G G G A A G G G G GAAAAAGGGGCC G GAAAA A GAAGGGGAAAGGACCGGGGGGGGAAAAGAAGGGGGAAAAAGA A A G G GCAGGGGAAAAGGGGAACAAGAGAGAACCGAACAGAGA CA $\operatorname{G} A A C C A A C C A G G G A A A A G G G G G G A A G G G G G G A A A A G G G G G$ GCCCCAAAAGGAAAACCGGAAAAAAAAGGGGGGCCAAABAAG GAAGGAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAAC C G G A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A A A A A A A A C C A A G G G G G G A A G A A A C$ CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGGAGCACACA GAAGCAGAGGGGGGAAGAGCCCAAAGGCCCAGGAAGAAAGGG G GAAGGGAAAGAAGAAGCAAAAACCAAAAACTAGGGAAAAAG
 $G C C A G A G G G A A A A G G A A C C A A G G A C G A G G A A A G G G A G G A C C A$ GAAGGGAGGAAGGGGGGGGGGACAGGGGGCCAAAAAGAGGGG

GAAAAGAAAGAGATTCAGGGGGAAGCAGATTAAAAAAAACCC A A A G A A A A A A ACCAACCTAAAGGGGGGAAGGAAAAGAAACCG G G G G GAATTGGAAAAGGACCCACAAAGGAAGTACAAAGGAAT TAAACAACCAAAAAAGGAGAGAAGGGGAAAAGGAAAACCGGG GAAAAGGGGGGAAGGAACCGGGGAAGGGGAAGGAAAACCGBA AAAGGGGAAGGGGAAAAGGAACCAAAAAAAACCAAGGGAAAA A G G A A A A G G G GCCAAATTAAAAGGGGAAAAAAAACCAAAAAAA AGGAACCAAAAAACCCCCCCCGGCCGGAAGGAATTAAAAGGG G A A A A G G G GAAAA A GAAAA A GCCCCGGGGGGAAGAAAAAAAG G G G G GCCAGAAGGAAAACAGGGGAGGGCCCCAAGGGGCCGGG G G GAAACCGGGCCGAGGGGAGGAAAGGGGGGAGAGAGAAAAA GAAGAAAAACCAACCGGGGCAAAGGGATTGAAACABAAGGGC C G G G G A G C C C C G G G GAGGGAAAAAAGGAACAGGAAGAAAA GA A A G GA $\operatorname{A} A A \operatorname{A} A C G G A A A A G G A A A G G A G A G G G A G A G G G G G A G G G$ $G C C G G G A G G A A A A A G A G G A A G A A A A G G C C A A G G A A A G A A G G G$ G GAAAAAAAAAGGAAGACCGAAGGGGAAGGAGGGAGGAGAAA $A C A A A A A A G G G A A A A C C G G A G G G A C A G G G G G A G A A A A C A A G G$ GAAGGCGGAGGAAAGGGAAACAACCAGGGAAGGAAGAAAGAA C GAGGAAGGGACCAAAGATAAGGGGAAGAAAAAAGCCGGGGA GAAGAGAGACGCACCGGGGCCGGGGGGAAAGGAGAGGGACAC G G G A A CAAAAGAAAAGAAACAGAAGGAAGGGCACAAAAGAAC CAGTAACGGGGAAAAGGACGAAAGGGGAAAAAGCCGGAAGGG $A C C C A G G A A C C A G A A A G A G G G G G A A G A A A C C G A G G G A G A A A A$
 A G G G G A A C C G A C C G G G G GAGGAGGGGAGAAACCCCAAGAAAA GAAGGAAAGGGGGGGAAGGAAGGAAGGAGGCAAGGAAGGAGG GAGCCGAGGGGAAAACCAAAAGGAAAACCAAAACCGGGGGGA A A ACCAAAAAACCCCGGAACCAAGGGAAGGGCGAAAAAAGGA AAAGGGGGGCCGGAAAAGGAAGAAGACAGCCAGGAGGAGAAAA A G GAAAAAAGGAAGAGAGGGGAAAAGGCAAGGGGGAAAAAAA AAA A A GAA $A \operatorname{GA} A A A A A A A A A G A A A G A C A G A G G G G G G A A G A A G A$ AAGGAAGCAGAGGGGCGCAGGCCAGAAAGAAAGAGAGACACA GAAAAAGGGAACCGGAAAGACAAAGGAACAGGGAAAGABAAG
 AACAAAGAAAAAGACAGCCAAGGAAGGGGACGAGAAAAGGAA $G C C G A G G G G G G A A A A C A G G G G A G G G G A A A A A G G C A A A A A G G A$ AAAGGAAGGAAGAAGAAGGAGACAAGGGGACGAAGAACAAGA ACAACACATCCACCCAAGGGGGAAGCAAAGGGAAGGGCAAAAA A G GCAA $A$ A A A A G GAGAAGGGGGGAGAGGAGGACGGGGAAA GA A GAG $A \operatorname{GCA} G G G G C C A A C A G A A A A G A A G A G A G G G A A A T T G A G A A$ G G GAA A A A A A G G GAAAGGGCAAGAAAAAAGGAGAAAAAAGGC $A C C A G G G A A A A G G G A A A A G G G A G A A G A G A G A A A A G G A A A G G A$ GAGACGGGGGGAAGGGGAAGGGGGAAGACAGAACCAACAAAA GAAAAAAGGAAAAAACCGGGGAAGGCCAGGGGGCCAAAGAAG GAAGGGGAAGGGCAGAAAGAGAGAACCGGGGGGAAAAAAACB A GAG $A \operatorname{GC} C A A G G G G G G G G G G A G A G A G A A G G A T A G A A G A A G G A G$ A G G G G A A G G G G G A A C G GA $\mathcal{A} G G G G A A G A G G G A A G C C G G A A A A G$ GGGCCGGAAGAAAGACACAGGGGGGGGAATAAAGAAGAAAAA AAAAAACAGGGGAGAGAAGGAAAAGGAAGGGAAGGGAGAGAA $A \subset C A A G G G G G G A A G G G A A A A G A A A G C A A A G G A A A G G G A G A A A$ A G GAGCCGAACAAGGAAGAGAAAAAGGGGAAAAAAAAAGGGG $G G G A G A G G G G G G G G G A G G G G G G G G G A A A A A A A A G G A A C A A A G$ G G G G GCC G G G G G GCC G G A A A A A A G GAAG GAAAGACAAA GAAA AAAGGAACCAAGGGGAAGGAAGGAACCGGGGCCCCCCAATTG GAAGGGGGGAAAAGGGGGGAAGGAACCAAGGGGGBAAAAGGG G G G G G T T A A C C G G G G G G A A A A G G G G C C G G G G G G A A G G G G A A G GAACCAAGGAAGGGGGGGGGGAAGGGGGGGGGGAAGGCAAA$G$ GCCGGGGAAAAAAGGGGGGGGGGAAGGAATTCCGGGAAAAAA AAAGGGGGGAAGGGGGGGGGGGGCCGGAACCGGAAAAAAAAG

GAAGGAAGGAACCGGGGGGAACCAAAATTCCAACCGGAAAAA
 AAAACGAAAAGGGAAGACAAAAAAGAAGAGAAAAGAGGGGGA A A A A ACCAGACGAATGAAAGACAGCAAAAAGGGAGGGAGAAA AAAAACCAAACGAAGCCAAAAGGACGGAAAAACAAGAAGGGG GAACCCACAGAAAAAAAGAGGAAAAGAAAGGAAAGGAGAABC CAAGGGGCCACAGGAAAGGGGGCAAGGGGAAGGAGAGGAGGG G G GCCGGGAAAAAAGGGGGGGGAGGAAAAAGACAAAA
G G G G A A C C A A G G G GAA A G G G C C G A GGAAGGAAAAACGAAA G GAAAAGGGGAAAAGGGGAAGGGGCCAAGGAAAAAACCGBCAA A G G G G A A G G G G G G G GAATXCCAAGGAAGGGGAAGGGGGAAAC C A A A A A A G A A G G A GAA A A G G G A A G G G G A A G G A A A A G A A A G G A $G C \subset A A G G G G C C G A A A A A A A A A G G G G A A G G C C A A A A G G A C A G G$ C G G GACCGGAAAAAACCCAGGAAAAGAAAAGGACCGAGAAGAC $C \subset A C C C C A C G G A A G G C C G A G G A G G G G G A A A A C C C C A A A A A G A$ GGGCCAAAAAAAGAGAAGGAACCGACGGGTTGGGGGAAAAAG G G G G G A A A A G GCC G GAAAAAAAGGGAGGCAGGGGGGAGACA G C C G G G A G A A A A A A A G G G G A A A A T TA G GA GA G GAA G GAGGGC C A GAGAAAGCCAGAGGGAGGGGGGGCCACAAGGAAGGAAGACCG GCCGGAGCCAAAAAAAGGGAAGAAGAAAAACAAAGAAGAAGA $G C C A G G G G G G G G G G G G G G G A A G G A A G G A A C C G G G G A A A A G A A$ GCCAGAAAAGGAACAAGAAGAGAGGGCGGAGGGAAGGAGAGA GAGGAAGGGAAACGGAAGGCCACGGCCCCGGAGAGAAGGGAA $A G G C A G G A C G A A A A A G G C C A A A G A C G G A A G G A A G G G G G A C A G$ GAGGACCGGAGCCAGAAGGGGAAGGACGGGGAAAACCAAA GA CACAACAAAGGGAGAAGCCGGGGAGGAGACCGGGAGGGAAAA AA $A$ AC $C$ GAAAAAAGGGGGGAGACGGGAAAAGGACCGGAGAAG GAAGGAGACAAAGGGGAAAGAAGAGGGAAAGAAACGGAGAAA A GAGAGGAGGGAAGGGAACGGAAACAAGGAAGGGGAAAAGGG GAGAAAGAGAGGGGGAGGGGGGGCCGAAAAGGGGGGGA$G A G A A$
 AGAAACCTAGGAAGGCCAGAGGAGGAACGGGAAAAGGGGGGA

 A G A G G G A G G A A A A G A G G A A A A G G T TAA A G A A A GAAAAA A G G A $C \subset C G G A A A G A A G G A G G G A G C A G G A G G G G G A G A G A A G G G G G G A$ A G GAAACAAGGGAAACGAAAAAAGGCCAAAAGGGGGGAAAAC C GAA A A A G GCCGGGAAAAGGAAAGGAAAAAAAAGGGGGGAGA TGGGGGGCAGGGAATAAACGGGGAAACAAGAGGAAGGGAAAA
 GACGGCAAACCCACCAGGACAGGCCTTGGAAACAAGACAAGG G G G A A A A A G G G A A A G G A A G G G A C G G A A G G G GAA $A$ G A A G G A A A AAACAGGGACCGGAAGGGAGGAGGGAGAAAACCGGGGAAGAA A G G G A A A G G G G G A A GAA $A \operatorname{A} A A A A A G A C A A C G A G A A G A G B A A G C$ A GAA A A A A A A A G GAA $A \operatorname{A} G A G A A A A G G G G G G G A A A G G A A A A G G A$ G G G T T G A A G A G A G G G G G G G A A G G A A A G A G G A G G A A A A G G A G A A A A A G A A A A G GCC C G G G A A A A A A GGCCCC GGAAAAAAAAAA A GAAAAAAAAGGGGAAGGAGGAGAAAAGAGGGAGAAAGAAACAA A G GAACAAAGGGGGGGGAAGGGGAAGAGGGAAAGGAAAGAAA AAATTGGAAACAACCAGGGAAGGGGAAGGACGGGGAAAAAAA AAAAGGGGGACGGGAGCGGCCAGGAAGAAGAGAAAAACACAA G G GCAACGACCGAGGAAAGAAAGACAAGAGGGGGGAAAAAAA GC G A A G G G G G A A A G G G G G A A A C A G G G G A C A G G G A A A A A A G G A GAAGGAAAACCAAAAGGAAGGAGGGAAGGAAAAGGGACCCCA A G G G G A A A A ACAGACCAGGAAGGGAAAAAAAAAAAGGAAA GA
 G G G C C A A G G A G G A G G A G G G G G A G G GA $\mathcal{A} A A A A G A C A G G G G G G G G$ G G G A A G G A A A A A A A A TAAA G GAAAAAA G GAACAATA G G GAAA A $A G G G G G A A G C C A A A A A A C C G G C C G G A C G G G G C C A A C C A A A A A$

A A A A A G G A A A G G GA A A G G G GAAGAGAGAATTAGCCAACAAAA GACGAAAAAAGGGTTGGCCGGAAAAAAAAAAGGGATTCAAAG GAAGGAAGGAAGGAAGGAAGGCCCCAAACAGGGAGCAAAGGG ACAAAAGAAGGGGAAAAAACCGGCCGGAAGAGAAAGGAAAAA ATTAAAGAGCAAGCCAAAAAAGGCCAAAGGAAGGGAAGGCCG GATGAAGGAGAGGACGGGGGGGGGGGGGGGGCCGGAAGGGGA AAAAA A $A \operatorname{Ag} \operatorname{A} G \mathrm{G} A A A A A A A A A A A G G A A A A G G G G G G A C G G G G G A A$ A GACCAGCAAGGGGGGGGGGGACAAAGTAAAGGCCAAGAAAA G A A G A A A C C G G A A A A A A C A G G G G G G G G G G A G G G A G G G C C C C G AGGGAGGCCCCGAAGAGCAAAAAAAGAGGGAAGGAGGGGGGA A GACA $A \operatorname{A} A G G A A A G G G A G A A G T T G G G G G A A A A G G G A A G G A G G$
 A G GAAAACCGGACAAAACCCCCCGGACCCGGCCGAGGGAABAA A A A A C G G A A A A G G C C G G G G A A A A G G G G G G A A G G A G G A C C A G G A G GA $\operatorname{A} G A C A G G A C A A A A A A G G A A A A A G A A A A G G G G G G A B A A G$
 GAAGGGAAACGAGAGGGGGGGAAGGGGCAGGAAAGAAAAGAA GAGAAAGACCGAGGGGGGGAACCAGGGGGCAGAGAACATAAG G G G GACCAAGGAAAAGGGGGGTAGGAAAAGGCAAGAGGAAAG GAGGAGAGGAAAAGGAGATGGGGCCAAGGAAAGAAGGGGCCG G GAGGGAAAGGAGGGAAAGAGAAGGAGAGGACCAGAGGAGAA A G GAAAAGAGAAAGGGAGAGAAGGGAAGGGAAGGAAAGACAA G GAA $A \operatorname{GA} A G \operatorname{A} A A A A G G A A A A G G A G A G G G G A C G A C A G G G G A A G G$

 AAGACAAGGAAAAAAAAAAGAGGCCAGAAGAGGAAAAGAAAA C G G G GA A A A G GAGCAAAAAAAGGGGAAGGGGAAAACAAAGAA $A G G G A A G G G A G A G G G G G A A G G G G A A G A G G A A A A G G G G C A G A A$ $A G G G A G G A A G G A A G G A A G A A G A A G G A A G G C C A G C C G A G G G G G$ AAAGGAAAGAGGAAGGAAGAAACAGGAGCAGAAGGGGAGGAA A G G A A A A G A A G A C G A G A G G A A A G A A A A A G GAGAAACCTXGA GAAGAGAACGGGGAGGAAAAACCACGGAGGGAAGGAAGCAGC CAAAAGGAAAAGGGGAGGGGGAAGGGGAAGGAAAAAAGGGAA A A A G G A A A A A A A G G A A GAGGGGGGAGGGAACGCCCACCAAAG
 A T T G G G G A A G G A A A G G G G G A G G G C C C C A G G A A G G A C C A G G G G $A C C G G A G A A A G C C G A A G A A C C G G G A G A A G A A A C A A A A G A A C A$

 A GAA $A \subset A G G A G G A G G A G A G C C A A G A C C A A A A C C B A A G C G G G G$ G G G G G G A G G G G G A A G G G A A GAA A G A G G GA GAC C G G G G A A G G G ATACAAAAAGAGGAGGGGGGGAAGGAAAAGGAAAA GGGGGGC $C G A C C G G A A A A A G G G A A A A G A A G G G A G G G G G G G G A A G A A G A A$ A G G A G G A A A A G GAA A G G A A A A A A A G G G G G A G G G G GAC G G C C A GAGGGGGGGCCAAGGGAGGGGAAACGGAAAGAAAAAGAAAAG GAACCGGGGAAAAGAGGCAGACAAAAAGAAAGGGGAAAAAAA A A G G A A A A A G G A A GACCGGAGACGGGGGGGGAAGGGGAAAAA GAAAAGGAAGGAAAAGGGGGGGAAACCACGGAAAAAAAGGAG G G G G GCAAAGGGGAAGGGGAAAAGGCCGGGAAAGGGGAGAAA
 A GAGGAAGGCAGGAAGGACGGACAAAAGGGGCCCACCAGAAG A GAACGGCCCCGGAAGAAAAAGGAAGAGGAAGAAAAGGAAAG A G G G A A A C C G G G G G G A A A A A G C A A GA GAA A A A G C C C A A G G G G A G G GAGGAGGAAACAGGAGGAAAAAAAGGTTGGAAGGGAGAG GAGAGAGAGAGGAGGAAGGAAGGAGGGAGGGAAAGAAAAAAG G G G G GAGGAGGAAGAACAACCGGACGGACAAAAGAGGGGCCG GAAGAAAGGGGGAAAAGAAAAAAAAGGCCAAGGGGAACAA GA
 GAAAGAAGACCGGGGAAGGAAAGGACCGGGAAGGGAGAAAGG

GA GAAAAAAAAAAGGAAAAAAGGAAAAGGAAGGGGGAAAGGG GAA $A \operatorname{A} A A \operatorname{A} A A G A G G A A A G G G A G G G A G G A A A G A G G G G G A A G G G$ A G G A A G G G A G G C A G G G GAAAGGACAGAGGAGGAAGCCAAAGG AAAACGAACAGGAGAAGAGGGGGAGAAAAAAGGCCAACAAAC $C G G C C G G G G A G G G A C G G A A A G G G A G A A G G A A C C A A C C C A A A A$ GAAGAACAGAGGAAGAAAGGGAAGGGGAGAAGAGAGGCAA GA A A ACCCCAATTGGAAGGGGAACCGAAAGGGGGAAAGAAACCB G G GCCAGCCGAAGAGAAGGGGGGAGCCACCCACGGGG
 GAAAGAGAGGAACAAGGGGAAGGGGAGAGCCGGAGCCGGAGA A A A G GCAGGGGGGAAGAGGAGAGAACCAGAAGAAAAAAAGAA A G A A A A G A G G G A A A G A G C C G A G G G A A A A G A G GA A G G G A G G A A G GAGGAAAAAAGAGGGGGGACCCAGAGAGAGGAGACCAGGAG
 A A G A G G G G G G G G G G A G A G G A A A A G G G G G G G A G G G G G G A A A A $G$ GAGAGGAAGCAGAAAAAAAGGGGAAAAGGAAAAGGAAAACAG
 CAAGGGAAGGACCGAGAGGCCAAACAGAAAAAGCAAGCAAAG GAGAGGGGAGGGGGGGGGAAGAAGGACAGGGAAAAGGCCGGA A G G A G G A G G G A G A A A A G A A A C A A A C G GAAAAAAAAA G G G GAA A CAGAAAGAGTTGGCCGGAAAAAGGAAAGGAACCAAAAAAGGA G G G G G G A A A G G G G A A G GCC G GCAACAGAAAAGAGGACAGCCG A G A G A A A G A G G A G G A G G A G A A A A A G A A A A A A A GAC CA G G G A A $G G A A G G A G G A A A A A A A A A A C C G G G G A C G G A A A A A A G A G A A A A$ A G GCCAAAGGGGAAAGGAAAGGAGAAGGAAAAAGGAGGACAB G G GCCGGGGGGGGAAGGAAAAAAAAAAGGACGAGGAAAAAAA AAACAGGGGGAAAAAAAAGAAGGTTAGAGCCACAGGGGAGAA A A A A A A A G G A G G G G GAA A G G G A A A A A A G G A A G GCC G G A A G G A AAAGGAAAAGGAAAAAAGGCCAAGGAAGGGGAAGAAAGGGGG GCCCCCCCCGGGGAAAAAAGGAAAAAAGGGGGGAAAACCGGC C G G C C A A A A G G G G G G A A G G G G G G A A A A G G A A A A G G A A A A A A A A G G G G G GAAAACCGGGGGGGGAAAAAAAAGGGGGGGGGGTTA $A C C A A A A A A G G C C A A A A A A G G G G A A A A G G G G G G C C G G C A A A A$
 A A A G G A A A A G G G G A A G G A A G GCCGGCCAAGGAAAA G G G G GAAA A A G G C C G G A A G G G G G G A A A A A A G G C C G G G G A A G G G G A A C C G G G GAAAAAACCGGTTGGAAGGGGAAGGAAGGGGCCCCAACCGGG G GGCCAAAAAAGGAAGGAAAACCAAAAAAAATTCCGGGGGGA ACCGGGGAAAAAAGGAACCAAGGCCAAGGAAAAAAGGAAAAA ACCAAAAAAAAGGGGGGAAAAAAAAAAAAAACCGGGGGAAAAA A A A G G G G G G G G A A A A G GAA A GAAAAAAACCGGGGGGAAAAAAA A A A A A A A A A A A A A G G G GAACCAAGGAAAAAAAACCGGGAAAC
 A G G A A G G G GAACCAAAAGGTTGGAAAAGGAAAACCCCAAGAA A G GCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGGAAGAA
 A A G G G A A G G A A G G A G G A G G A A A A A $\mathcal{A} G G G G G G G G G A G G A A G A C$
 $A C C G G C C G G A A A A A A C C C C G G G G G G T A G C G G G G G G A A C A A G A$ G G G G G A G G G G G A A A A A A A A G A G G A G G G A A A GA GAA G G A A G G A A A A A GCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGGAG GAGAGCCGGGAAAATGAAGGAGGAAGGGGGGAAAAAGAAGGA $A G G G G C C G G A A G G G G A A G G G G A A G G G A A A A G G G A G A G A A G G G$ AAAAAGGGGAAGAGGAAGGGAAAGCAAAGAAAAAGGGAACCG G G G A A A A A A A G GAGGACAGCAACAAGAGGAAGAGACCAAGAA GAAGGGAAGAGAAAGCCAGACAGACAAAGAGAGAAAAGAAAG GAA $A \operatorname{GCC} C G G G G G G G G G A G G G A A G G G G G G G G G G G G C A G G G G G$ G G G G G G G G A G A A C G G G G A A G G A G A A C A G G A A G G GAC C G G A G A G G G G G A A G GCAGGGGCCGGCACCGAAAAGCCGAGGGGAGGGA

GAAGGAACCGGAACCGGGGAAAAAACCGGGGGGGGAAGGCCA
 AGAAACAGGAAGGGGGGGAAACACCGGAAAGCCAAAGAGAAA GGGCCGGCCGAGGGACAGAAAAAGAAAAAAGGACCGGGGAGA AAAGGGGGAAAGGGCGGGGAAGGAGGACCAAGGAACCGAGAG GAATTAGGCGGAGGGAAAAGAGGACGGGGAAGGACAACACAA A A G G G G G A A G A G G A GAACCGGAGCCAAAGGGAGAAGATXAAC C GAGGGGAGGGAAGGAAGGGGAAGGCCAAGGGGAAGAAAAAA A A A A A A ACCAAAAAAAAAAAAAAGGGGGGGGAAAAAAAACAA A G G G G G GAA A G G GAAGGAAAAGGAAGGGGCCAAAACAAAAAG G G GAAAAAAGGGGGCAAGAGAACGCCAACCAAGGAGCGGGA GAGACGACAGAAAAGAAGAAGAAGGAGGGCCATCCGGAAAAA A A G G G G G G GAAAAAAAAAAGAAAGAGAACCGGAGGAAGGGGAA A G G GACACCAAGGGGGGAAAAGGAAAAGAGAAGAAGGGAAAA G G G GAAAAAAGACCCGAGGGGCCGAAAAAAGGGGGAAAAAAA A G GAGGGAAAAAAGGGGGGAGAGACGAACGGAAGGCCGAGAAA A A GAGACACAGAGAGAAACGGAGGAAAGGAAAGACGAAAAAG GAGACGGGAAGGAACAGGGGGCCAAAGGGAAGGGGAAGAAAC $A G G G G A G G G G A A G G A G G A A A A A A A A A A A A A G G G A A A A A A A A G$ G G G G G G G A A C C G A G GAGGGAAAGAGGGAAGAAGGAGGAAGAG A GAGAGAGAAACCAACAAAGGGGGGGACAAGGGGGGGGAGGG GAACCGGAAGAAGAGAGGGACGGAGAAAAGGAGAGGAGAAAA AAAGGCAGAGAGGAAAAGGGGGGCCGGAAGAGGGGAAAAAAG G G G G G A G A A G G G G G GAAAAAGGAAGGGAGGAGAAGGGAAA G G G GAAGAAGGAGAGGAGCCGAGGGGAGGAGGAGGAGAAAGAAGA A GGAGGAAAAAGAGAGACCAAAAAGACGAGGGGGAGAAGAAA A GACAAGGGCAGGCAGGAAAAAAAAAGAAAAGGGGGAAAAAG GAGCCGGAAAAGAAGAGAGAGAAGGGAAAGGAGGAGGAAAAG GAAAAAAGGGAAAGAGGCAAAGGGGCCGGAAGGAAAAAAGGG $G G G A A G G A A G G A A G G A A G G C A G G A G G A G G A A A A G A A A A A A A A$ A GACAAGAAAAAGGAAGGAAAAGAAAAAAAGCCCACAGACAA A GAGGGGCCAAAAAGGAAAAAACGGGAGGCAGGAGAGGAAAC CAA A GAACAGGAAGGGAGGAAGGAAGGAAGAAAGGAAAAA GA G G G G G G A A G G G G G A A G G G G A A A G C C A A GAGAGAGG GAA G C C A G GAAAGGCAACAAAGGAAGGGAGGGCAAAGGGAGAAAAAGAC CAAGGAGAGCCGGAAACGGGGACGACCGAGGAGAAAAGGGGG GAAAGAAAAAGGAGGCAAAAAGGCAGGGGAGGGAAAGAGGAG A G GAA A A A A A A A TAAGGAAGGAAGGAGAGAAGAAA GAAC GAA GACAAGGGGGGAACCGGAGCCAAGGAAAGGAGGGGAGAAAAA A G G G G A A G GAC GAACAGAGCCGGAAAAAGCXAGGAAAAGGAG G G G G G G G T T G GAGCCAGGGGACCGGCAACAGAAACAAGGGGA A G G A G A A A A G G A A G GAACCGGGGAGCC GAAGCAGGA GAC G GA G GAAGGACCAAGGGGGAGGAACCGAAAAACCAAGAGGCAGAG $A G G G A A A G G A C G G A A A G G A G A G G A G G A G G G G G G A A A A A A G A A$ G GAGGGGGGAGGAGGAAGAGGGGGGAAGGCCAGGACACCGGG
 A G G G G GAA A G GCC G G G A A G GA A A GAGGGGAGGGCC GAAAG G C C GAAAACAGAGGGGGCCAAGGCCACAGGGGGAGGGGGAGAGA AAAGGAAAAACGAGAGGGGGAAGAGAGAAGAGAACCCCCGAC
 CACGGAAGGGGGGGGCCAAGGCAGAGGGAGAAAAAGGAGGAA C GAAA AACAGGGAGGGGAAAAAAGACAAAGGGGAGGAGAAAG A A A A A A GAGCAAA $A \operatorname{A} \operatorname{A} A A G G G G G G G A A A A G G A C A G G C C A A G G G$ GAAAAAGCAAAGGGGGGAAGGAAAGAACCGGAAGGGGGAAGC
 $A \subset C G G G G A A G G G G A A A G G G G G A A G A A G G G A G G G G G C A A A G A G$ GAAGATTGGAGTAAGGGAAAGAAAAAAGAGGGGGGGGGAAAA GAGGGAAGGAGAAAGGGAGGAGGGGAAAAGGCACAGACAAAC $C C C A A A A G G A A A C G G A A A A G G C C G G A G A A G A A G A A G G G A A C A$

A GAGAAAGAAAGGACGAGAAAGGGAAAGAGGAACCAAGCGAC CAA $A \operatorname{GA} A \operatorname{A} A \mathrm{~A} G \mathrm{G} G A \operatorname{A} A A G A A A G G C A G G A G G G G G G G A A A A G B C$ CAACACAACGAAGGGGGAAAAGGAACCGGAGGGGGAAAAAGA A GAGGGAGGAAAAGAGAGGAAAAAAGAGGGGCCGGGGCAAGG AA $A G G G G G G G A A G C \subset A G G G G G G G G G A A G A A A G A A A G G C A G A G$ A GAGGAAAACACACAGAACACGAGAGAAGGAAAGGAAA GAAG
 TGGAAAAGGGGAAAAAGGAAGGGGGGGGGGGAACAAA
C C G G A G G A A G A A C A C A G G G G G G A GAAAAAA A G G A A C CAA A A GAACCCCGAAGAAACAGAACAAGGGGAGGGAAGGGGGGGGGG
 TAAAGAAAAAACAAAGGGAAGGACAGAAGGGCCGBAAAAAAG GAAAAAAGGGGGGAAAAAAAAAAAAAACCAAGGAAAAGACCA A A A GAA A G GAGAGGGGAAAAAGAGGGGAGGACCAAAAGACCA AAAGAAGGAAAAAGGAAAAGGAAGGAAAAAAGGAAGAAAAAA ATTGGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC C G G G G A A G G G G G G A A A A G G A A G G C C G G G G G GAA $A \operatorname{A} A A A G G G G G$ G G G G G G G G A A G A C A A A G G G A G G A G G A G G GCCGGGGAAAAAAA AAAGGGGGGAAAAAAGGCCGGAAAAAAGGCCGGGGGGAAGAA A A A G G G G G G G G G G G G G G A A A A A A C C G GAACAGGAAG GAAAAA A G GAGCCAGGGGGGAGGGGCCGGGAAGGGGGAGAAGGGAGGC CAA A G GAGGGGGGAGGAAAAGAAAAAAGGGAAAAACCAAA GA A A A G GCCCCGGGGAAGGGGCCAGGGAGAGAAAGGGAAAAAAG GACAGAAACGGAGGAAAAAGAGGAGAGAGGGAAGGGAAGABA C C C G G G G G GAAAAAGCAGGCCAAAAAAAAGGGGAAAAA GAAA $A C C G G A A A G G G A A A A A G G G A G G G A C G G A C G G G G G G A G G A A A A$ A G G G GAA $A \operatorname{A} A A G G G G A A G G A C G G C C A A A A G G A A A A G G A A C A A$ A G G A C A A G G G G G G G G G G G G G G G G G A C C A G A A C C G G A A A G A G C C CAAAACAACCCCAAGGAAAGGACAGGGGGGAAGAGGGAACA G G G A A A GACGGCCCCCCGGAAGGGGGGAAAAAAAACAAAAAG G G G G A A A A A A G ACCAAGCCCAGGAAGGGGAGGGGGAAGAAAA AACGAGAGAGAAGAAAAGGAAGGAAGGGGGGAAGGAAGAGAA A G GAA A G GAAA $A \operatorname{AGGGAAAAGGCAAAGGAAAAAAGGAAGAAAG}$ G A A A A A A G GAA A A G GAA G GAAGGCCTTAAGGGGACCCAAGAA A A A A A A G A A A C A C G G G G A A A A A A GAGGGGAAGGA GAAA GA G G G G GACCCAAGAGAAGAGCAGAAACCGGAACCAAAGAAGGGGG A G GAAA A A GAGAGGAGGGGAAAAGGAAAGGGAACACAAAGAA $A C C A A G G A A C C G G G G A G A A G G G A G G C C G G A G G G G G G G G A A C A$

 GAAAGGAAGACGGAGCCAAGGTTGGAAGGGGAAAACAAAGGA G GAAACAAGGGACAAAACAGGGGCCAAAACCAAGGAAAGGGA A GAAGAAAAGGAGGGGGGACCAAAAGGAGAGGGGGAAAGGGA
 GAAGGCCAGAGCCAGGGAATTAAAAGGAAGGAGGGAGAAAAA A G G G A A A A GA $\operatorname{A} A A A A A G G G G A A C C A G G A G A A A A A G G G G G G G G G$ GAAGGGGGGAACCCCAAGGAAAAGGGGGGGGAAGGGGGGGGA A A A A A A A A A G G A A A A A A CCGGTTAAAACCGGGGAAGGGAGAA ACCGAAAGAGGAAGAAGCCAAAAGGAAGGGGGGGAAACAAAA G G G A A A A A A A GAGGGGGGAGGCAAAAGAGAGAGAGAAAGACG GAAGACCGGGGAAAAAGAGCAGGAGGAGAGGAAACGAACAAA C G GAG $\operatorname{G}$ GAA $A \operatorname{GAAAAACCCAGGGAAAGGGAAAGGTTAAAACCT}$ TAAGGAAGGAAGAACACGGGGAAGGAAGGTTAAAAAACCGGA A G G GAAAGGCCAGGACAACCAACAACCAGGGGGAAGAAGGGA A GAGAGGGGAAAAGGAAAGAAGGAGAAAGAACCAAAGGACAA $G C C A G G A G G G A A G G A A A G G A G A A A A G G A A A A A A C C A C G G G G G$ GAAAGAGACAAGACCAAACGGGGGACGAGAACCAAAGGAAGA
 $G C \subset A A G C G G A G G G C C T T G G A G A A C C C C C C G A C A A G A A A A G A A$

A AAAGGGCAGAGAAGAAGGAACCGGAAGGGGTTGGAAGGGGG G G G A A C A G GAA A A G G G GAGCCCCAAAGCAGAAGGGCA GAGEG G G G G A G A A A G A G G C A G G A G G G T A C A GAGAGAGCCC GAAAAAA AAAACGAAGGAGGAACCGAAGAGAGGGACGGACCAGAAAAAC $C G G C C C C A A G G G G A A G C A A G G A G A A A G A A G G G A G G A G A G A G C$ C GACCGGGGAACAAAAAAGGAAGCCGCAAGGAAGAGACAAAC ACCACGAAAAAGACCGGCCAAGGCAAGACCCGGAAGGAAAGC ACCAAGGGGGAAGGAGGCAGGGGGAAAAGAAAAAGGGGACAA C G A C G A A $\mathcal{A} G G G C C G G G G G G G G G G A G A G A A G G G G A A G A A G G A A$ G G GAAGGGAGAAAAGGGGGGAAAGGAAAAGGGGGGGAAAGAA $A C C G A C A A G C A A G G G A A A A G A G G G G G G A A G G A A A G G A G G G G A$ A G G A A A A A G G A G G G G G G G G G G G A A G A A G G T T G G G G C C G G G G A A A A A A A G G GAA $A \operatorname{G} \operatorname{A} T \mathrm{~T} A A A G A A G G G A A G G G A G C C A A G G G G G A A$ A A A G G GA G A G A A A G A A A A A A A A A A GAGGGAAA GAA GA G GA G A A GAGGAGGGCCGAGGACAGAAAGGAAAAAGGGGCCGGGGGGA $C \subset A C G G G A G C A G G G A G G A A A A A A A A G A G A A A C C A A G G G G A G G$ G G G A A A GAGGGGGGAAGCCGACCGGGGAAAGAGAACAAAA GA GACCCGGAAGAAGAAAAAACCGGGGAAGGGGCAAACCBAGAA AAACCGGAAACAAGGAAAACCCAGCAGAAAAAGAAGAGAACA C GAA $A$ A A A A A A A A G G G G A G GAGGGAAC GAAAGGACGAAAA GA GAAGGACAAGGGGGGAAAGAAAGGGAGAGGGGGAAGGGAAAA
 GAACCAGGGGAAAGAACAAGGAAGGCCAAGGGGGGACGGGGG G G A A G G G A A A A C C G GCCAAAA $\mathcal{A} A A A G G G C G G G G G G G T X A C A$ GAGGGGGAAAGAGAAAGAAAGCAGAGGGAAGGAAAGGAACAC C G GAGGAGGAGAGAAAGGGAGAAGGAGAGCACCGGAACCGGG GCCGGCCGGCCGAGGCCGGAGGGCAGAGGCCAAGGAGAAGAA A A A G G GACCGGGGGGCAGACCAGGAGGCCGGAAAAGAAAAAA A GACA $A \operatorname{AA} A G G G G G G A G G C C G G A A G G G G G A A G G A G G G G A A A G A$ A G G GAA A G GACAAGACCAGGGGGGGGGGGCCGGAAAAGGGGG G G G A A A A G G G G G G A A A A A A G G A A G G G G A A G G G G C C G G G G G G A A G GAACCGGGGGGGGGGGGAAGGCCAAGGCCGGAAAAGGCCA A G GCCGGAAGGGGAAGGAAAAAAAAAAGGAAGGAAGGGGGGA G G G A G A G G A G A A A G G A C A A G G G A G G G G A C G A G A G A T A A A G G G G G G G A A G A G A G A G A GAGGAAGGAAGGGAAAAGGAAAACAAAG $G G A A G A A A G G A G G A A A A G G A A G G G G G G A A A G G A A A A C A G A A A$ G G GAACCGGAAGGCCCAGAGGGGCCAGCCAGGGAGAAAAAGA CAGGAAAGGAACCAGGGAGAACAGAAAGACAAGGAAAAGAAC A A A A A G G A A A A G G A GAAAACCAAAAAGAGAAAAAAGGCAAAA
 GAAAAACAAAGGGACTTGGAATTCCAAAAGGGGAACGCAAGA
 AAAAGGGAAGAGGAGGGGAAGCGGACACCGAAGGGAAAGAGA G G G G G G G G A A A G GAAAACCACAGGAAAGGGGAGAGGAAAAAA $A G G G G G G A G G G A C C C A G A A A A G G C A G G G A G G A A G G C C G A G B A$ C C C C C C C A A G G A A A GAAAGCCCCAGAAGAGAGAAACGGAAAG GAGGGGAAGAACCAGGCCCAAGGGGGAAAAAGGAAGAGAAGG G GAA A A A GAGGAATTAGAAAAGAAGCCGGAACAAAGGGGCCG GAAAGCAAAAGAAAAAGACCCGAAAGGGAGGAAGGAAAACCA CAGATTTGGAAGGGGGGGAAGGCAGGAGGGGAAAAACAGCAA ACCGGAAAAACGAAGAGAAAGAAAAAACCGGAACCAAAAAAA AAACGGGAAAGAGAGAAAGAGGGCAAAAGGGAACCGAGAGAG
 GAGGGAAAACCAAAGAGAAAAAAAAGGAAAAAAAAGGAAAAG G G G A G A A A A A G T T G GAGAGGGAAAAAAGGGAGGGAAAAAA G G GAGAAAGGGAAAGCCGGGGAAAGAGAGAAGAGAAAACGAAGG A G G A A G G A A A C A C A G G A G G G G A A G G G G G G G G A G G G A A A A G A A G G A C A A A A G G G GACCGGGGAGCACCGGAAGGAAGGGACAAAA GAGGGGGGGGGAAAAAAGGAGGACCGAGAGGGAGGGGAAAAA

G G GAAAACCGAGAAAGGGGAAAGGGAAGAGAGGACGGGAAAA
 GAACCGGAAGGAGGGGGAAAAAAGCAGGGCCGAAAACAAGGC A A A GAGAAAAGAAGGGGGGAAAAGGGGGGGGCCAACCAAAGA A G GAAAAAAGAGGAAGAAAAAAGCCAAAAGGAGGGAAAAAAG GA $\operatorname{G} A A \operatorname{A} G A A G G A C G A G G G A A G A A C A G G A G A G G A G G A A G G G G A$ G G G G G G G A G G A CAGAAGAAAAAAGGGGAGAAGGCAAACAACB AAACCGGAAGGCCCCAGAAAAAACCAAAAAAGAGAGG
G G G G A C A A G G G G G G G G G A G G C C C A GAAA A A A C G G A A A A G G C $C G G A A G A C A G A C C G G G G A A A G A C A G A A A A G G C A G G A A A A G G A$ CAAA A A A G G G G G G G GAGGGAGCAAGAAAGAAGGGGGAAAA GA
 AAGCAGGGGGAAACCAAAAGGGGGAAAAACCAAGACAAGATA G G GAAGGGGACAGAACAAAGGACGGCCCAAAGAAAAGGAAAA AAGGGAGAAGAAAGAAGGGAAAAGAAAGAGGAGCCAGGACAG GAAGGAGAACAGAAGGGAAAGATGGGGGGGGAGAAGAAACAAA A A GCA $\operatorname{A} A \subset A G G A G C \subset A A G G G G G G G G C A G G G G G A C A A A A A A A A$
 A G GAACCGGAAGGGGAAAAAAAAGGGGCCAAGGGGGGAAAAA A A A A A G G A A A A G G A A G G A A A A C C G GAAAA $A$ A GGGAACCCCGGG G G GAA $\operatorname{G}$ GAA $A \operatorname{GAAAAAGGAAAAGAGGGGAACCGGCCGGCCGGG}$ GAAGAGGGACCAAAGGGGGGGTTAACCAAGGCAAAGACCGBA A G G G G G G A A A A A GA GAAAAAGGGGAAGAAGGGAAAAAAAAAA A G G A A G G A A G G G G A G G G C A A A G A G GAA A C C G G A A G A G C G G G G G GACCCAGAAGGGGACAGGGAAGGAAAGGGGAGGAAAAGACCG GACGGGAACGGGGAGCAAAGGGGCAAAAGAAGGAAGGGAATG AAAAAAGCCGAAGGGGCAGGGGGCCGGAAAGGAAAGGAACAA
 A G GAA A A A A GAGAGGAACCAAAGAAAAAAGGAGGGAAAAAAG G G GAAGGGGGGACGGAAATAAAACACAGAAGGGACAAAAAAA ACAAAAAAGGGGGCAAAGGAAAAGGACGAAGAAAAAGCCGCG G GAAACCGGAAACAAAAGGGAGCCCAAGGAAGGACACGAAGA G G G GAGGCCAAAGGAGAGGCCCAGGGAGGGGGGGGGAGAGGC C GAGGAGCCCAGACCGGAAAAGGAAGAAGCCGGAGAGACAAC GCCGGGAAAAAGGGAGAGGCCGGAAAAACAAGGGGGGGAAGG $A C C C A A G G A C C C C A A C C G G A A G A A A G G G G G G A A A G G G A A A B G$ G GAAAAAAAGGAAAAGAAACCGAAAAAGGGGAAAAGGGAAAG GAAAAGGAAAAAAACGAAAAACCGGAAGAAAAGGAAAGGGGC C G G A G A G G C G G G G A G G A G G G G A A A T G G A A G GA G G G A G A A C A G G G G G A G G A A A A A A G A A C A G G G G G G G G G C A A A C C C A G G G A A A G GAGCAAGGGGGAGCAGGGAAAAAAGGGAAAAAGGGGAGAAGT TAA $A \operatorname{GA} A G G A A G G G G G G G G G G A A A A C A G G A G A C A A G A G A G G A$ AAGAGGAAAAAGGAAGAAGAGGAGAAGAAGGAAAGAAGGGAA AAACCCCGAGGGGGGAAAAACCCAAAGCCAAAGTTAAAAAAA A A A C C A A G A G G G A A A A A A A A G G G A A A G GAGGGGGAA G G G A A A AAACCAAAGCCCCGGAAAAAAGGAACCGGAAAAAAGGAAAAG G G G G G G G G G G G C C G G G G A A A A A A A A A G G G GAAAAAAA G G A A G G A A G G A A G G G G G G G G A A A A G GCC G G A A G GAAAACC A GAAG G G G A AAAGGAAAAAAAAGGCCGGCCAAAAGGAAAAGGGGGGGAAAA A G G A A A A C C A A A A A A A A G G G G G G C C A A G G A A G G A A A A G G G G A A G G G GCCGGGGAAAAGGAAGGCCAAAAAAAAAAGAAAGGGGG G G GAA $A \operatorname{G} A A A A A A G G G G A A A A G G G G G G C C A A C C A G A G G G G G G$ GAGGGGGCAAAAAGGAAGGCCAAGGGAAGAAGGAAGAAAAAG AAAGGGAAACCCCAAGAAAAGAGAACCGACCGGAGGAGAAAG GAAGGAAGGGAAAGAAAAAGGCCGGGAGAAGAAAAAGAGGAA A A A G G A A G A G GCC G G A A G G A G G G G G C C G G A A T T A A A A A A A C G GA $A \operatorname{GG} A A \operatorname{A} G A A A A A G G G G A A G G A A G G A A G G G G G G G G G G C C G G C$ C A A G G A A G G A A G G A A G G G G A A G G G GAA C C A A G A CAA A GAAA A GAGACGAAGAGGGAAAGAGGGGGGGACGGGGACAAAAAAAGG

G G G G G A A C C G A G GAGGACAGGGGGGAAGAGAGG
$113109000-9 A A G G G G A C G G A G A G A G A A G G G G G A A A A A G G G G C$ AAAAGAAGCCCCCAAGGGGGGCAGGAAGGGAGGCCAAAAGBA $A C C A A A A G G G G A A A A G G A A C C G G G G G A A G A C A G A G C C G G G G G$ A A GCCAAGGAAAGAGAAGAAGAGGGGGCCGGAGAAGGGAGGA ACAAAGAAAGGAAGGCCAGAGCCGGGGAAAAAAAAGGGAGAA $A C C A A A C G G A C A A G G G A A A G G G G G A A A G G A G A G A C G G C C G B A$ A G G G G G A G G G G G G G G G G G G G G G A G A A G A G G C A A T T G G A A G G A A A G A A A A A G A A C C G G G A A A GAGGAACCGGAGGGCAGGCCAGE AAAGAGAAAAGAGAAAGAGGAGGAAGGAAAGCCAGGGGGAGA GCAGAGGAAACGAGAAAAAGGGGGGAGAGCCGAGCAGAAAAG GAAGGAACCAAAACCCCGGGGAAGGAAAAAACCAAAATXGGA A A A G G G G G GAAAACCAAGGAAAAAACCTTCCGGGGCCGGGGC A A A A A CAA $A \operatorname{GA} A \mathrm{~A}$ GAAAACAAAAAAAAAAGGGAAAACCGAAAG A A G A A A GAA A GAAA A G G CAA A G GAGACGGAGGGAAAACCAGA A GAGAACAACCGGCCGGCAGGGAGACAAGGAAAAAGGGGGGG GAGGAGAGAGAGACCAAAAGGGGGAAGCCGGAAGGAAAAGAA GAGAGAAAAGGGAAAGGAGAGAACCAAGGAAAAAAGGGACCB A GAGGGGGGCCACGCCGGGAGAGGGGAGGGGAGAAAAAAGGA A A A G A G A A A G G A A G G G G C C A A G G G G G G G G C C G G T T G G G G A A A G G GAAAAACGGGGAACAAAAAGGAAAAAAGGCCGAAAGGGGA G GCAAAAGGAAAACCACGAGGAAAGGACCGGGGAAGGGGCCA ACCAAGGACGGAAAAAAGGGAAAAAGGCCAAAAAAAAAAGAC
 C GAGGAAAAGAGGGGCCAAGAGGCAACAAAAAACCAGGACCB GCCAAAAAAAGAGAAGGGGGGAAAGGGAAGGAAGGAAAAAAA C GAGGTAAGTTCAAAGGGGGGAAAAACAAGAAAAACCGAGAA GAAAGGAAGGAGACCGGGAAAGGAGCCGGAAAACCAAAGAAA G G G A A G G G G GACC GAAAAAAACCGGCCAAAGGAAGAAGGGGG AA $A G G G G G G A A G G G G A A C C G G C A C C C A A G A G A A A A A G A A G G C$ A A ACCCCAAAAAAAAGGAAAGGAGGAACCAAGAAAAGAGGGA GCAAAAAAGAAAACCGGGGGGGAGGGGAAAGAAAGAGGGGGC AA $\operatorname{A} G \mathrm{G}$ GAAAAACCAAGAGAGGGAAGAGAGAAAAGGCAAAGGG GAAGAGACAGAGAGGGGAAAACCGGAGGGCCGAAAGAAAGAA A G G G A A A A G A G TAA A G G A A $A \operatorname{GGGGGGCCAAGGAAAAAAAAGGC}$ C A A A A G G A A A A A A A A A A G G G G A A A GAAAA A G A A G G G GA G G A A AAAGAGGAGAAAAAAGGGGAAGGGACCAGGGAAAAACAGGGG GAAGGAGCCAGCCGAGGGGCCAGGGAAGGAAGGACAGCAAAA A A A A CACAGCAAAAAGGGGGAGGAAAAGGAAAGAGGGAACAA
 GAATAGAGGGGAAGGAGAGAAAGAGGGAGAAAGAGAAGGGGA
 G G G G G G GAA A G G G G G GACCGGGGAGAAAGGAAAAAGAGACCA C G G G A A G G GA G C C G G G G A C G A A A G A A GAGAGGGGGTAA G G G A AAAACCAGGAAGGAACCCAGGAGGGAGCCAAGGGGGGGAAAA A GAACAGGGAGAGAAGAGGAAAACCAAGGGGCCCCAAAAAAG A A A G A G G T TAA A A A GAGCCGGGGAACCAAAAAAGGCCAAAAA A G G G G G G G G G G G G A A A A G G A G A A A A A C G G G GAAAAAAA A A $\mathcal{A} G$ G G G G G G G G G A G GAAAGGGGAAAAGAGGACAACCAACCCAAAA

 A G G A A A A A GAACCGGAAGGAAACGGAGGGCAGAACAGGAAGA G GGCAAGCCAAAGAAGAAGGAAAAAGAGACAAGGAGAACGGA AGGGGGAAACAAAAAGACCAGGGGGCCCCAAGAGGCCAAGAG GAAGGGGGAGAACGGCCAAGAAAACAACAGAGGGACAAAAAG GAAGGAAGGAAAAGGAAGACCAAGGGGAAGGGAGAGAAACCB G G G A A C A G A A A C C A A G GAACCAAGACCCCGGCCBAGAA GAGA $G G A G A A A A A A A A A G G C A A G G G C C G G A A A G G A A A G A G A A A A G A$ GAAAGAGCCAACCACGGAAGGAGGAAAGGGAGGGAAAGAGAA

G G G GAGAAAAAAGAAGGAAGAGCAGAAGGAGAAAAGGCCGGG A A GCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCG G GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAAGA GACGAGGAGGGAAGAAAAAACAGAGGAACAGGGAGGGGGGGG GAAAAGAGGGAGGAAGGCCATAGTTAAAGGAAAGAAAAACCG G G G A G A G G A G A A G C A G A A A G G G G G G A A C C G GAA $A$ G C A G A A $G A$ G G G G G A A G GAA $A \operatorname{G} G A A G G G C C C A G G G G A A A A C C G G G G A G C A G$ GAAAAAGAATTAAAAGGAAAAGGGGGGGGGGAAGGGGGAGAA G GAA $A \operatorname{GA} G G A C G A A C A A G A A A A A A G G G C C G G G G A A A A G A A A C$ AGGCAAAGAAGGAGGGGCCGGCAGAGAGGGAAAGGAAGAAAA
 $G C C A A A A G G A A G G G G A A G A G A C C A A A A A A G G A A G G A C A G G G A$ A G G G G A A G A G A G A A A A A A A A A A A C CAA A A GGGGGGAAAAGAA A G G A A G G A A A A A A A A G GAAAACCGGGGCCGGAAGGCCCCGGG GCCGGAAAAAAGGGGGGGGAAAAGGCCAAAAAAAAGGGAAAG GAACAAGGAGGAAGGGGAGCCGGAGGGAAAGCCGACCAAGGG G GATTGGGGAAGGGGCCAAAAGAGAGGGGAAGGGGAGGGGGG G G G A A A A A G GAGGAAGGAAGGAAGGCAGAAAAAAGAAGGGGT $T G G G G G G A G G A G G G A A A A A G G G G A A A A A A C C G G G G G A G A A A A$ A $G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGGGCCGGGGGAGGAAAAGGAACXAACCAAGEG $G G G A A G G G G G G A G A A A A G G A G A A G G G G G G G G A A A A A A G G G G C$ C G G G GCC G G A G GAAAAAGGGGAAGGAAGGAGAAA $A \operatorname{A} A A A G G G G G$ GAGAGAGCGGAAAAAAACCAACCGGAGAAAAAAAGAGAGAAA AAAGAGAGGGGAAGAAGAAGAAGAAAAGAAGAAGGAAGAGAA A GAA A G GAGGAAAAGGAGAGAAAAAAAGAGGGGGGGAAAGGA A G G G GCCGGGGGGGGAAACAAGGGGGGGAGGGGGGAAAAGGT TAAAAACAAGGAAAAGGCCGGAAGAGGAAGGGAGAAAAGAGA G G G G A G G A GAGGGAAGGAAGGAAAAAAAAGGGAAAGAAAAAA GTTAAAACCGGAGAAATAGGAAGCCGGGGGACGGGCCAGAAG AGGAGAGAAGAAAGGAACCGGAAAAAAGAGAAAAAAGGAGAC CAAACGGGAGAAAAGGGAAGGAAGGAAGAACAGATGAAGAGA AAAGAGAGAGGGGGGGAAAAAAAAAGGGGAAGGAAAAGGGGC CAACCGGCCAAGGGGGGAAAAGGAAGGCCAACCAAAAAAAAG GAAGGGGAAAAGGAAAATTCCAAGGAAAAAAAAGGAAAAAAA A G GAAAAAAAAAAGGAACCACAAAGAGACAGGAAAAAAAAAA
 A G G G GAA $\operatorname{A} A \mathrm{~A}$ A GACAAGACAAGGAAGAGGGGGGAAAAAAGGC $C \subset A A C A A G G G G A G C C C C G G A G G G C A C A C A G A A G G G A A G A A A G$ GAACCCAAGAGAGGAGGTTACGGGGAGAAAACCAACCAAAAG GAAGGACCCAACCGGAAAAAAAGGAAGCACAAGGAAGAGGGA GAAAAGGGAGGAACCAGAAAGAAAGAAAAAAAAAGGAAGCAG AA $A \operatorname{GAA} A G G C C A A A A G A G G A A C C A A A G G G G G G G G A G G A A A A C$ $C G G C C G G G G A A A A G G G G G G A C G G G C A A A A A G G G C A G G A A A A A$ A A GAAAGGACAGAGAGAAGGGAAAAGGAAAAAGACAACAAAA $A C C C A G A A G G G G G C C G G G G G G A A C C G G G G G G G G G G G G A G G A A$ A G G G G A A G GAA $A \operatorname{G} \operatorname{A} A A A A G G A A G A A G C C G G C C G A G A A G A A A A C$ C G G TAA A A A G G G G GAGAGGGAAAACAGCAGAACGGGGGAAGA G GAACAAGGAAGGGGAAGGAGGGGAGGCCGGGGAAGAAAGAA GAAGGGGGGAGCAGAAGAAGGCCAGACGGACAGAGGAGGGGA AAAGGGAAGGGCCGGACAGCCAAGAAAGACCAAAAAAGGGAC
 GAGAAAGGGAGAGGGCAACGGGGGAAAAGAAAAGAAGCAAAA A A A A A $\operatorname{A} G A A \operatorname{A} G A A A A A G G G G G G G G C C T T G G G G A A A A G G G G G G G$ GAACCAAAAGGAACCAAGGGGCAAACCCCCCGAAAAACAABA GAAACGAGGGGGAAAGAGGAGGGGGGGGGCCAAA$G A G G B G A A$ C C CAAAAAAAACCAAGAGGGAGAAAAAGGAAAAAAAAGAGGA A A A A A G G A A $\mathcal{A} A G G G G A A G G G G G G A G G G A A C C G G C A A C A A A G G$ GAA A G G G G GAAAGAAGGGGCACAAGGGAAGAAAAA GGGCGGG GAGGAACAGAGCAGGGGAGAGAGAAGGGAGGAGGGGGGAGAG

GAGCCCAGAAAAAAAAAAAAGGAACGGGGAAACACGG AAATAGGAAAAAAGAAGAAACAAACAAAGGGGAAGGAAGAG GACCAGGGGGGACGGGGGGGAAGGGGGAAGGAAAACCCBAGC A A GACGGGGAAGGGAAGCAGGGGACAAAAGGGGAGAAGAGGA GAGAGAAGAGGCCGGAAAAAAAAGGCCAAAAAGAAGACCGGG G G G G G G G A G G G A A A G A A G G G G A C G G A C G G A A A C G G G G G G C C A A A A G G G GAA A A A G CAGAGAGGAAGGGGAAGAGACAGAACAAA $G C C A G G A G G G A A G A G G A G G A G A A C A A G A G A G C G A G G G G A G G G$ GCGCCGAAGGGAACCATAAAAATAGAAATAAAAGGAAAACAG GAAGGGGAGAAGGAGGAGGAGAAGGAACAGGAGGGCCGGAGG GAAAAGGGGGGCGGCCCAGGAGGAAAAGGAAGGAGGAACAAA GCAAGGGAAACGAGGGAAGCCGGAGAAGGGGAACAAGGCAAA GAAGAAAAAGAAGGGGGGAAAGGAAAAAAAAGGAAAAGACCG G G GCC C G A G G G A G A A A A GA G G G GA GAAAAAGAGGAGGGGA GAA GAAAAGAGGGGGAGGCCAGCCAGAGACAGGGCCGGGGAAGAA A G GAA A GAAGGGGAGCCGAGGGGAGGGAAGGAAAGGAGAAGA AAAGGCCTTCCCCAAGAGGAAGGGGGAACAAAGGGATAAGGG GAAAAAGAAGGAAGGGGGGAAAGAAGGCAGAGGAGAACAGAA A A A A A A A G GCAAGGAAGGGCCGGGACCGAGGGAAAAAGACCA A GACCCCAAGAAAGACAAAAAGGGAGGGGAGGGAGGGGAAAA A G G G G G GAGGGCCGGGGGGGGAAAACGACAGAAAAGAGBCAA AAAGGAAAAGGGGGGCAAAAAGGGACAAAGAAAAGGGGAGGG GAAGGAAGGAAGAAAGAAGCGCCAAAGGAAAAGGAAAAAGGG GAAAGGGAGGAGACAAAAAGGGGAAGGAAAAGGGGGAAACAG G G GAAACAGAGATAAGGAAGGAAAAGGGGGGAAGGAGGAAAG GAGAGAAAGCGAAAACCAAGGAAAAAAAAAAAACCCCGAAAG GAAAAGGGGAAGGGGAAGGAAGGAAAAGGAAGGAAGAAAAAG GAAA A A A C C G G A G A A A G G G G G G G A A G G G G A A G G C C A G G G A A A A G G G GCC C G G G A A A A T T A A A A A A G G G G G GAAGGAA G GAAAA $A$ CAAGGAAAAAAGGAAAAAACCAAGGAAGGGGGGGGAAGAAAG GCCAA G GAACCAAAAAAGGGGGGAAAAGGAAAAGGAAGAAAA AGGAAGGCCAAGGCCCCGGAAGGGGAAAAGGAAAAAAGGAAC CAAAAAAGGGGAAAAAAAAGGAAGGGGAAAAAAAAAAAAGGC CAAGGGGGGAAGGAAAAGGGGAAGGGGCCGGAAAAAGAGGGA GAAGGAGAAACATGGACCCGGGACCAACCGGCCAAAAAAAAG GAAGGAAAAAGAGAAGGGGGGAGAGAAAAGGGGCCGGCAAAAG $G C C G G C C G G G G G G G G G G A A G G A A A G A G A C A G G A A A G A C A A G G$ GAGGGGGGGGGGGAGAATTGGGGAAAAAAGGAAGGGAACACA ACAGAGGAAAGAACAAAGAGGCCCCGCAGAAAGGGAAGGGGA A CAG G A G A A A T A G G G G A A CAGGGAGCCACGAGGGGCCAAAAA A G G A A A A CACAAGGGGACAGGGAGGAAGATAAAAAAAAAGGA ACCGGGGCCGGCCGGAAGGAAAAGGAACCGGGGAGAAAAGGC $C G A A G G A G G A A G G A C G G A A A A G G G G A A C C C C G G C C C C C C G G A$ A A A G G A A G A G G T T A A G G G GCCAGCAGAGGAAAA GAAAGGGGG $A C A G A A A G A A G G A A G A G A A A G A A A A G G A C A A A A A G A A G A G G G$
 A A A G A A A G A A G G GAGGAGACCACAACAAGGGAAGAAAGAGGA G GAA GAAAAGAAACAAGAAAAAAAAAGAAGAAAAAAA GAAAA A GAGGGAAAGAAAAGAGGGGGGAAGAAGGACGAGGGGGAAAG GACAGAAGGGAACCCGGAGAAGGAAAACCAAAGAGACBAAAA G G G G G A T G GCCGGAGGAAGAAAGAAAAAACGGGAAAAAAAAC AAAAGCCCCGGCAGGGGCCGGAAGGCCGGAAGGGGGAAAAAG GCAGGCCAAGGAAGGAGCAAAGGAAAAAACAGGCAGGGAAAA G GAACGGAGAGGGACCCGGGGAAGAAGACGAAACCAAGAGAA A G G A A C C T A G G G G C C G G G G G G A G G G A G A G G G G A A G C A G A A A $G$ GACGGGAAAGGGGAAAAGGAAGGAAAAAAGGGGAAGGGAAGA A GAGAGAAAAAGAAGAAGGGGAACAAAGGGAAGAAAAAAGGA $A G G G G G G A A G G G G A A G G A C G G G G C A G G G G G A G A A G G G C C B A A$ AAGACAGAAAGGAGAGGAAAAGGGGTTAAGGACGAGAGAGAA

AAGACAAGGAACCAAAACCGAGGGGAGCCGGAGACTTACAGG GAGAGAACAGACGACAGGGAAAAGGAAGGAAAAAGGAGGGGT $T G G G G A A A G A G C A G G A A C C G G A A A A C C A A A A G G A A A A A A G G G$ GAGACTTAGGAGGGGAAGGGGAAGGAGAGAAAAGGGGGAGAA AAAAACGGGAGGGGGCCGGAGGAAACCGGAGAAAGAGAAGGC CAACCAAGGGGAGAAGGGGAAGGGGGGGAGGAAGGGGGGGGA A GACCGAGGCCAAACAAGAGGAAGGAGAAAACCGGAAAAABA AAAGGCAAAAAAAGGGGGGGGGGTAAGAAAAAGAACCAAGAA A A A C G A G T A G G G G G G A A GAAGGGAAAGCCAAGGGGGGAAAAC CAGAGAAGAGACACATTCCGGGGAAAGAACCCCCCGAGAAAC CAAAA A G G G G G G G A A A A A A TACAGAGGAAGGGGA GAACA G GA A G G A A G A G A C C G G A A A A G G A A G G A A G G A A G G G G G G C A A G G G A G G GAGGGAAAAGAGGAAAGCAGGGAGGAAGGGGAAGGGAAAAG $G G A A A G G G G G G G G G G A A G G G A A G A G A G A G A A G G A A A A A A A G A$ G G G A A C A A A A G G G G G G G G G G G A A A A A A A G G GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A}$ G G G A G T TGGAATTGGGGGGAAGGAAGAAAAAGGAACCCAAAAGAGCAA A GAGGAACCGGAAAATTAAGAGAAAAAACGGAAAAGGGAAAG GAAAAAAAGAGAAGGGGTTACAGGGCCAGTACCGGAAAAGBA GGGAAGGCAAAGGAAACGAAAGACCAAGAAAACBAGGGGGGA A A GAACCAGCAGAAAAGGGCAAAGAAAAAAGGGGGGGAGCAC G G GAGCGAAAAAGAACCAACGGGGGGGGGAACAGAGGAAAAG GAAAAGGGGAAAGAAAGGAGGAACCGAAGAGCAAAGGTXACA $A C C G G C C G A A A G G G A A A A G G A A A G G G G G A A A C A A A A C G G G G G$ G G G A A G G G G G G A G A A G A G G A A A A GAGGAAGGGGAACAAATTG $A \subset C A G C C G A G G A A A A A A A G A A G G A A T A G G A A A A G B A A G A G G G$ A A GCCAAGGAAGGAGGGCCCCAAAAGACCAGGGGGCACAGGA G G GAACCGGAAGGAATAAGGGGGAAAAGGAAAGAGGAGGGGG
 TGGAGGGACGGGGGACCGAACCAGAAGCACACCCCTAAGTTT TGAAAAAGGCAGACAGGGAAGGGAGCACAGAGAAABGGGGGG
 A G GAGAAAACAGGCCGGCCAAGGAGAGGAAGGAGGGAAAGAA
 A GACACCAGAGGGGGCAGGAGGAAACCAAACGGTTGGAAGAA A G G A A A A A A G G A A C C A A A A A G G G G GAAAAAAAGGGGAA G G G G A A G G A A G G G A C C G G A G G A A GAAAACCCCAC GAAATTGGGAG GA A GAAGCAGAAGCAGGGGGACCGGGGGGAGAGAGCAAGAGAGA GAGCAAAGGAAGGAGGGAAAGCCCAGGGAGAAGAGAGGACAA AAAAAGGCCAAAAAGAACCGAAAACAGGGCCGGCCAAGAAAA GAGCCAGGGGGGAAGACGAAGCCGGAGGGGGGGAGAAGAAAG GCGAAGGGGAACGAGCCAGAAAACCAGAAAACCAGCCGAAAA A G G A A A A A A $\mathcal{A} G G G G G G G G G A C A G A G C A A A G A A A G G A A A A G A A$ GAAAAAAGGCCGGAGGAGGAAAGGGGGAAGGCCAGGGGAAAA AAAGGACGAAAGGGGACGAAGGCGGAAGGAGGGGGAAAAGAA A G G G G A A G GCCGGGGAGAAAGAAGAGGACAAAAAGGGCCGAA G GAGGAACATTAAAAAACCGGGAAAAAGAGAGGCCAAAAGAA A A A A A A ACCCAGACAAAAGGAAGGAAAGGAACCCCGAAGGAA AGGCCAAAGGACAACAGAAGGCCGGAAAAAAGGCCAAAAGGA CAGAAAAAAAGCCGGCCAAAAGGCCGGAAAGGGAAGGGGGGA A G G G G A A G GCCAA G GAA A GAAAAAAAAAAACCAAGGAAGGCCG G G G A C A G A GCGGGGGAAGGACAGGGAAAGGAGCGAACCAACA A A A A A GAGAAGGGAGCCGGAAAACAGGAAGGGGGATTGAAAA $A C C C C G G C C A G G A G A G A A C A A A A G G A A A A A G G A A A A A A A G A G$ A G G G G T TAAAAAAGGGAAAGGGGAAAAGGGGAAGGCCAAGGG A G G G G G G G G GACC G GAACCAGACGGAAGGAAGGCCGGAAGAA A C C G G A A A A G G A G A G G G G G A A A A A GCCGGAGAAG GAAAAAAA A A A A A G G G A T T C A A A A A A A GAAGGGAGAAAAACATAAAACAG G A A A A A A G A A A GAA A A GACCCGGTTAGAAAAAAAA GGGGGCA GAGGAGAGGAGCGCCAGAAAGGGGGGGGGAAGGAACCAAGAT

TAAGAAGAAGAGGAAGGGAAAGGGGAAGGAATTGGAA
GAAAGGAAGACCGGAGGAGAGGAGGGGGAACCGGGGGAGCG A A GACGAGGCCGACCGAAGGGCAGGGGAACACAGAGGGGGAG G G G G GA A G GAAAAA A G GAAAA A GAA G GAAAAAA A GAA GAAAA G GGCCCAAGGGAAAAAGCCGAGGCCAAAAGGCCGGGAAATTG GAGCGAAGGCAAAAAACAACACCAAGGGGAACGAGAACAAAT TAAAAACAGAAAAAAGGAGAAAAGAGAAAAGGGGGGGGACAG GAGAAGAGGGAAAGGAAGGAAAAGAAGGGAGGAGGAAAAGGG A A GCCAAGGGGAGGACACCGGGGCCAGAAAGAGGAGGGGGGA AAAAAGGAAAAGGAAGGCAAGGAAGACGGGGGGTTAAGAAAG GAGGGGGAAGGAAAGAAAAGGACAAGGGGGGGGAAAAAAAGA
 A A A C G GACAA C AGGAAAAAGGGGAAAAAACGGAAAAGGGAAAG GAAGGAGACGGGGCCAAGGAAAAGGAGAAGGGGAAAAAAGAG G G GAAAACCCCAAGGGGAAGGAAGGGGAAGGGGAAAAGGCCC CAAGGGGAAGGGGCCAAGGAAAAGGAAGGAAGGTTCCGGCCG G G G G G A A G G A A G G A A G G G G G G G G G G A A A A G G G G A A A A G G A A A A G G A A G G A G TAAA A A A GAAAAAAGGGGACCAGAAAATGGGGA AAAGGAAAGAAGGGGAAAAAGAAGGGGGGCGAGCCTTGAGGG G G G A G A G A A G G A A G A A CAGAGCGCCGGAACCAGGAAAAAAAG AAAGGGGCCGGGGAAAAGAAACAGGAAATACAAGGAACGAAA C G GAA $A \operatorname{GAA} C \subset A G A A G G G G C C A A G G G A G G G G C A G A G A G A A A C$
 AAAACCCGACAGGGGGAAAAGAGAACCAACAAAAGGACAGAG A A CAA $A \operatorname{G} G A A A G G G G A A C C G A G G G A A G A G A G A G G A G A A G G G G$ G GAAAAAGGAGGAGGAACCAAGGAAACGGAGAGCCAGAAAAG GAAGGGGCCAGACAACCAAAAAAGGCCGGGGGGGGAACAAAG $G C C A A G G C C A A A A G G A A A A G G C C A A A A G G A A A A A C G B A G A G A$
 GAAGGGAGGACGAGCGGAGGGGGAGGACCGAGGGGGAGAAGA CA G G G A A A G A A A A A A A G G A A A G A A G G GA G CA GAAAACCAA G G ACAAAAAAGGGGAGAGGAGAAGGAAGGGGAGGAGGGACAAGG $A C C A G A G G G G A G A A G A G A A A A G G A A A A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGGGGAGAGGAGAGAAAGAAGAGGGAAAA AAAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGCAAAABC C GAGGGGAAGGGGCAAAAAGGGGGGAAGGAGAGAAAAGAGAA ACCGAAAAAAAGAGGCCAGGAAAAGGGCCGGAGAAAAAAAAA G GAGAACGGGGGGGGGAAAGGAAACAAGAGGACAAGAGAAGG $A G A G A G A G G C C G G A G C G G A G G G G A G G G A G A C A G A A G G G A G A G$ G G G A G A G G G G G A A A G G G G G A C G G G A A A G A G A A A A G GA GAC C G AAAAGCAGGAAGGCGGGCCAAAAGAGAGGAAGGCCAAAACAA
 ACCGGGGGGAAGAAAAAGGTTGGAAGGAGGAAAGGACAAGBA AAAAGGGCCCCAGGAGAGGAAGGGGGGCAGGAAACBAAAGAA GAAGGGGGGAAGGGGGAGGAGAAGGGGGGCAAAAAAGAAAAG GA $\operatorname{G} A A \operatorname{A} A \operatorname{A} A G G A A A A A G A G A A G G G G A G G A C C G G G C G B A G G G G$ G G GAGGGAGAGGGACAGGGAGGGAGAAGGCCGGTTGAAACAA A A A A A A A G GAAAAGGAAGGAAAGAAGAGGGAGAAACAAAAA G GAAGGGGGGAACCGAAAGAGGGGGAAGGGGGAGAGCCGGCCC C GAGAAAAGAGAAAGCAAGGGGGAAGAAAGAAGGGAGAACAA GAAAAGGGGAAGGAGACAAGAAGGAGAGAAACAAAAAAACCG GAAGGAAGGAGGGGGGGGGGGGAGGAAGGAAAGCGAGGGCAA A A A A C A A A GAAAGCAGAGGGAAAAGGACCAAAAACAAAAAAG $A C C G A A G A A A A G A A A G G A A A A G G G G A A A A G A G G G A A A G A A G G$ $G G A G A C C G G A A A A G G C C G G C C G G A A A A A A G G A A A A A A A A G G A$ A G G G G G G A A G G G G G G A A G G G GCCCCAAAAGGGGAAAA G GAAAC CAAAAAAAAGGAAAAAAAAAAGGCCCCGGAAAAGGGGGAAAC C G G A A A A G G A A A A A A A A A A G G G GAAAAACCGGAA G GAA G GAAA A G G G GAAAAAAGGGGGGAAAAAAAAGGCCGGAAAAGGGGGGC

C G G G GAGCCGGAAAGAAACAAGAGGAACCAAAAAAAGAGAGA
 A G G G G G GACAAGGAAGAGAAGAAGGAAAGGGGAGAAAAAAAG GAAAAAGAGGAAGGACAGGAACAGGAGAGGGGGGGGAGGGGG G GATTGGAGAAGAAAACAAAGGGAACCAAAAAACCAGA GAAA A A A A A A A A A A A A A A A GAA GAGGAAAGAGAAAGGAAG GAAAA G A G G A G A G G A G G A A G G A A A A A A A A G G G G CA G G G G A A G G G G G A G AAGGGTTGGAAAAGAAGAAAAAAGGAGGATTAACCAACCCCC CAAAAGGGGGGGGAGGGGGCCAAAGGGGGAGGAAGGGCAGAA AACGGGAAGAAGGGGAAGAGGAGAAGGGGGGAGGGAGCACAG G G GAA A A A A GCAGAAAAGGAAAACCAAAAGGCCCCCCAACAG G G G A A G G G GCCAAAGAGACGACCGGAGCCAAAAAAAGGAGGA A A GACAGAAGGGGAACCAGGGGAGAGGAAAAAAGGAAAAGAG A A G G A A G G A A G G G G A G A G G G G G A GAGGCCAAGGAGA A A GA G A A A GCGAAGGGGGGCCAGGAAAAGGGCGAACAGGAACCGGAGG G G G G GAAAAAGAGCCGAGAGAAAGAAACCAAAGCAAAAAAAA $A G A G A A A G G A G G G A G A G G G A A A G A G A G G A G A A A G G C A A A A G B$ $A G G G G G A G G G A G G G G A A G G G G A A A A G G G G G A G A A A A G A G A A G$ $G G A A G A A A G C C A G A G G G A A G A A A A A A G G A A A G A A G G A A A A G A$ G A G G A G G G G G G G G A G G G A G G A G A T T A A G G A C A A A G G G G G G G G GAACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGGGAGAG AAAAGCCAACCCCAAGAAGCGCAGGGAAAGACACCGAAGGGA
 GA $A \subset A A G G G G G A G A A G G G G G G A G A G G G G A A G G G A C B A G A A A A$
 A A A G G A A G G A G A G G G G G A G A G A T A A G G GAGACCAAAACAGGG GAAGGGGGAAGGAAGCAAAAAAGGAAAGGAAAGAAGGAACAT TAATTGGAAGGAAAAAAAGAAGAAAAAGGAGAGGGAGAAAAA A A A G G G G G G G G A G A A C CAA A A A G CA G G G GCCA GAACC G G G G T TAAGGGGCAAACCCAAACCGGGGGGAAAAAAGGAAAAGGGGC CAAAAAAAAAAAAAAGGCCCCAACCAAAAGGAAGGAAAAGAA AAAAAGGAAGGAAGGAACCGGGGAATTGACCGACCGGAAACG GAAAAGGGGAACAGGAGAAAGGAAGACGGGGGGGAAAACAGB C A G A G A G A G C A A G A A A A G G G G G G G G A A G G G A G A T T A G G G A G G A G G A A A G A GAGAGAAGGGGAAAAAAGGAAGGAAGCCCAACAA A G A A G A G C A A G A G G G A A A A GAGAAAAATAGGAACCGGAAAAC $C \subset C A A C C A G A G A A A A A A A A C C G G G G G G G G A A A A A G A A G A A G G$ CAGCCGGAAAACCAGAGGGAAAAGGGAAAAAGGAGAAAAGBA GAAGGGAAAGGAAGGGGGGGGCCAAGGAAAAAAGGAAGACCG GAAGGAAAGAAAGCCGGAAGAAAGGTTAAAAGGGGCCGAAGA $G C A G G G G A A A A A A G A A A C C G G A A G G A A A A A A A G G G A G G A A A C$ C C C C C C C G G GAA A A G G G G G A A G GAAAGAGCCAAAAAAGAGAG GAA A GAAGGGAAAGGGGAAAAGGAAGGAAAAAAAACCGGGGG GAACCCCAAAAGGAAAAGGAACCGGAAAAAGGGAGAGCAAGG GAAGGAAAAAAAAAAGGGGGGGGGGGGGGAACCAAGAAAGGG
 GTTAGGAAAAAGAAAAAAAAAACGAAAGGGGGGGGAAGAAGG GCCAAGGAAAACGGAGATTACACGAAGGGGGGGGAGGGGAGG ACAGAAACCCCAAACGGGGGACCAAGGGAGGAAAGAGGGGGA $A C C A C A A G A A A G G C A G A A T G G G G A G A G A G G A G A G G A A G G G G G$ A G GCA $\operatorname{A} A A A A C C G A G A G A G G G G G G A A A A C A G G G G G G G A G A G A A$
 A A C G A G G G G A A G G C A A A A A A A A A A A A GAAAA A G GA G GA G C C A A GAACCGAGGGGGAAAGGGACGGAGGGAGAAAAAAAGGAAAG GAA A A A A GAGGGGGGGAAAAGAACCGAGAGGGAGAGGACAAA G G G A A A A G G G G G G G G A A A A G G G G A A T T G G A A G GAA G GAAAA A A G G G G A A G GAAAAAAAACAAAGAACCAAGAGGAGGGGGGGGG $G C A A G A G G G G A G A G A G A A G G A G A G A A C A G C A A G C G G A G G G G A$ G G GAACCAAAAGGGGCAGAGGCCAAGACCAACCCCAAAAAAG

GAAAGAGTTAAGGATAAGGAAAAGGGGGGAAGAAGGG
A A GAA A A G A A A A A A C C G G G G G G G G G G G G A A A A G G G GA G C A G G GAAG $A \operatorname{GA} A A G G A A C G G G G A A A G G A A G G A A G A A G G G A A A A C A G$ G GAAAGGAAGGGGAACCAAGAGAAGAGGGGACCGAGGGAGAA G G GCAGGAAAAGGCCGGGGGGAGCCAAGGAAAAAGGACAAAA

 GAAAAAAGAGGAGAAAAAAAGAGAAGGAGAGGGCCAAAGACB A G G A GCCGAGGAAAAGGGGGAAAGGAAGGCCCCAAGGAGAAA A AACCAAAAGGGAAAGGGGAGGAAGAGGGGAGGGGGGCCBGA A G GCAA A G A A G A A G G G G A A G G G G C A G G A A A A C C C C G G A A G G A
 GAGAAGGCAGAGAGAGGAAGGAAAAAGAAAGAAAAGAAAA GA GAAAAGAACGGGAAGCAGGAAAACCGGAAAAGGAACCGGGGG GCCAGAAGGGAAAAAGAGGGGAAAAGGGGAAAAGAGAGAAAA AACCCACGGAGAGTTGGGAGGAGCAAGAAGGAGGGGGGGGGC C G G G G G G A A G G G G G G G G A A G GCCAAAAGACCAA AAA A A A GA G A A A A A A GAAGGAAAGCCGGAAAAAGGGGGGGAGAAAGAAGAA AGGCCCCAGGACCGGAAGGAAAAGGACCAGGAGACGAAAAGA
 GACGGAGGGAACCAGGATTAAGAGGGGAGACGGTAGGAAGAA G G G G G A A A A C C C C A A G G A A G G A A G G G G G G G G G G G G C C A A G G G $G C C C C G G G G A A C C G G A A G G G G A A A A G G C C A A G G G G G G G G G G C$ C G GAA $A \operatorname{GGG} G C X A A A C A G C A A A G G G G A A C C A G A G G G A G G G G G G$ GCACACCAGAAAAGAGGGAAGAGGGAAGGCCAABAGAACCCB GAAGGGAAGCCCCGGAGGGAAAAGAGGAGAAGGAAAGAGAGA A G G G GCAA $\mathrm{C} A \subset \mathrm{~A}$ G A GAGGGGACCGACCAGACAAAGGGGGACG G G G G G A G G A A C G G A GAACC G GA GAA G GAAACA G G GAC G G G G G A G G G G A A A G G G A GC C G G A A G G A A C C A G G G G G G G A G G G A G G G G G GAGGGGAAAAAAAAAAAAAAAAGAGGGGAAGGACAGAAGGG G G G GAGGCCAGAAAAACGAAAAAAAACAGAAGAGAAAAGAGG $G C C A A G A G G G G G A C C A A G A A G G G G G A A A A A A A G A G G G G G A G A$ G G GAA $A \operatorname{GGGT} T A G A A A C A A G A G G G A C C A A A A G G G G C C A G A A G$ G G G A A G G G G G G A A G A C A $C A G A A G G G G G C A G G G G T T A A G G G G A$ GA $A$ A $\operatorname{A} G C A A G G G G A G G G A C G G A A G G A G A G C A G G A A A C C C G G G$ G G G G G A A A C A GCA G G GAAGGGAAGGAGAGAAAGAAGAA GA GA A G G GAAAAGAAAAAAAAGGGGAAGGGAAGGAAAGAAAAAGAA T G GAAAAGGAGAAGGGGCCAGGGAGAAAGGGAGAAGACAAAC C G G G G A A G A G A A A A GAGGGCCAAGGAC GAAAAAAGAGAACAA A A A A C G G G G G G G GCAA $\mathcal{A} A \mathrm{~A}$ AAAAACAAAAAAGGGAAAGAAAAA TCCAGAAAAGGGGAAAAGGGAAAGGGGGAGGAAAACCGGAGAA G G G G GCACCAAGACCAAGAGGAAGGCCGGCCGGGAAAAGTAA CAGGGAAAAAAAGGAAACCGGGGAAAACGCCCCAAGCAAAGA C G A G A G G A A A A G G A G A GAGAGGGAAAGACCCAAAAAAGGGGA $G C C G G A A A A A A G G A A G A A A G A G G G G C C A A G G A G A G G A A A A G G$ ATAAAGAAACAAACGGGGGGGCAGGGAGACCAGAAAAGGGGG GAAGGCAGGCCAAAACCAAGAACAACAAAAGGAGGGGGAAAG G G GAGGGAAACAAGAGGAAAAGAAAGACAAGGGGGAGAGCAC A GGCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAAAAA A A A G GAAAGGGGGGGAACCGGAAGGAGGGAGGAGGGAACAAA GACGAAGAAAACCACGACCCGAAAAGGAGAAAACCAAAGGAA A GAAAAAAAAGGGAGGGACCCCCGAGAGGAGGGGGAAGAAAA
 CAAGGGAAGGGGGAAATCAAACAAGAACACCAGAGCCACCAA
 G G G A A A A $\mathcal{A} G G G G G G G G G A A G G G G G G A G G G C C A G G A G A G A G G G$ A G G G G G G G GAGAA $A \operatorname{A} A G G C G G G A A A A C C G G G C C G G A A C A A A A$
 G GAA A A A G G G G G G GCAAAGGGAAAAGGAACAAAAGGGCCGGG

GAGCCGAAAAAAGAGACGAAGGGAATAAACCAGAACAGACAG GAAAAAGCGCAGGAACACACCAAAAAAGGGGAAGAAAAAACC C C CAACCAAGGAAGAGGAAGGGGAAAAGGAGAGGAGAACAAA $C \subset A G G A C G G G A G A C C G G A A A A A A G G A A G G C C G G G A G A G A A A G$ GAAGGCCAGAACCGGGGAAAACCGGGGGGCCAGAAGAACTAA
 A G G G GCCAAACAGGGGGAAAGAAGGGGAAAAAAGAAAGAGGC C G G A A A A A GAAAAAAAGAAAAGGCCAGAGGATTAAGAAAGGA C G G G G A G G GCCAA G G G G A CAA TAA GAA GAAAAAAAGGCAAAA A GAAAAACCAGAAAAAGGGAAAAAAGGGGACGGAGGGGGACG GAAAAAAAAGGAGGGGGGGAAAAAACAGGGAGGGGAGAAAAG G G G G G GAGGCCAAAACCAACCAAACCCGGCCGGAAAAGAGGG G G G G G A A G GAACCCCAAGGAAGGAAGACCAAAGGAAAAAGGG G G G A A T TAGAAAAAAGGAAAACCGGGGGAGGGGCCACA GAAC A GAAAGAACAGGGAGGAGAGGGGACGGGGAACCGGAAAAAAG GAAAA $A \operatorname{A} A A G G G G A G C G A A A A G A G G A A A A G G G G G G A A G G G G A$ AAACCAGGGAAAAAAAAGGAAGGAAGGAACCGGAAAAGGCCG ACAGGCCAAACGGAAAGGGGGAGGGGAACGAAACAGAAATXG GAGAAGAGGAGAGAAGAAAGAAAGGAAGAGGGAGAGAAACAG G G GAGAATTGGAGGAGGAGACAACCCCGGAGCCAGCAGAAAG G G G GAGAAGGGGCAGGGAGAAGAGAGGAGGAAAAGAGAAGAA A G G G G GACCAAGGGAGGAAAAGGAGCGGAAACAGGAAAAGAA AAAGGGGAAAATAAGAACAAAGAAACCAAGGGGAAGAACAAG


 G G G G GAGGAAACCGGAGAGAGAAGGGGCCAGGGGGAGGAGAA A A A GAAAAAGGAAGGGGAAAAGGCAGGAGCCAAAAAGBACAG G G G A A A G G GAA $A \operatorname{GAAAAAGGAGAGGGAAAAAAGAAAAGAAACG}$ A G G G A A A A T GAAG GAGGAACGGACAGGAAAAAGAGAGATGAA
 G G G G G G G G G G G A A G GAA A GAAAAGGGACCGAGAAAGAAACAC $C \subset C G G C A G G A G A A G G A G T T A A A A C A A A G G G G C C G G A G C A G G A$ G G G A A C G A A G G G G G G G G A A A C G G A A GAGGAAAAAAAGGACG G A A A G A A A G A A G A A C CAA $A \operatorname{A} G A A G G A A A G G G G G A A A A G G G A A A A$ $G G G A G G C A G G A A A G C G A G G G G A G A A G G A A C C G G A G A A G G G G G$ G G GAAAAGGAAGGAAAAGAGGAGACACGAAACCAAGAAGAAA G GAACGGGGCCGGACCCGGGGGGAAAGAGCCCCAAAGAGCCA G G GAGAAACCAAAAGGAAAGGAAGGAGAGCAGAGGGGAAAAG GAAAAAAATAGGGCGAAAAAGAAGGGACAAGAGCAGAGAAAA $G C A A A C G C C G G A A G G G G A A C C G G G G A G A A G G T A G A A G G A A A G$ GAAG $A \operatorname{AA} A G G A A C C G A G A G G G G G G G G A C A G A A G G A G A A G A A G G$ G G G G G GAA $A \operatorname{GA} A A A A A C C G G G G G A G A A A A A G G A G G G A A A A A G C$

 G A A A A A GCAA GCCAGGGAAGAGGTTGGGGGGGGAAGGCAABA G GAAAAGCCGGAAAACCCCGGAACCGGGGAAGAGGGGCAABA A A A A GACAGGACAGGAGGGGAGGAGACAAGAGGGAGGAAGAG AAAAACAGGAAGGAGCAAAGGGGGGGGAAAAAAAGCCGAAAC CAAAAGGCCGAAAAAAGGCGGACAAAAAGCCCAAAACGAAGC C G G G GAGGACCGGAAGGAAGGAAAGAAAACCGAGGACAAGGG
 GACGAAGAACAGGAGGAGGCAAAGGAAAGGGCAAAAAAAGGA AACAGGGAAAGGAGACCGGAAGGGAAACACGGAGAGGGAAAA AAAAGAGGAGGGGGAAAAAAAAAGGAAAAAAAGAAGACAGAA A A A G G A A A A A A A A A G G GAGAA G G C CAAAAAAAAAAA AA A A A A G GCCGGAAGAACAAGGAAGAAAAAAGAGAGAATTGGGBAAAAC A GACC GAGAAAGAAAAATAAAAAGACCGGAAAAGGAGAAAAA A GACCAAGGAAAGGGGGAGGGGGACACGGCCGGAAAAGACAG

A A ACCAACCAAAAAAGGGGCCACGAAGAAGGGACCGG A G G A A G G G A G A C C A G A GAA A $A \operatorname{AGAGGAGGGGGGAAAAGAAAA}$
 GACCACAGAGAGGGGGGACCAGGAGCCAGAGAGGGAAGGCAG GAAAAAGAAGAGCGGAAAGAGAGACAAAGAGAAGGAAAACCC C A A A A A A $\operatorname{A} G A A G G G G G G G G G A G G G G G G C C G G G G A G A A A A G A A$ $A C C A G G G C C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G$ GAAGGGGAAGGCAAAAAGAGGCCAGAACCAGGGCAGAAACAC CAACCAAGGAAAAAAAAGAAGGGGGGGAGGGGGAACCGACAA $C A C G A G A A G G C G G C C G G A G A C A G G A C A A A A A A C G A G G G A G G A$ G GAGGAAAAAAGGAAAGGAAAGAGGAAAGCGAA GAGGGAAAT ATAGGAAAGGAAATTCATACAGAAGCAGAAGGGAGCAGAAAG GAAACAGAGAGGACAAGAACGAAAAGGAGCCATAACCAAAAC
 AGGGGGGCCGGAAACGAAGGGGAGAAGAGAGAAAGAGAGGAA A GAGGCCGGGAGAAAAAAAAAAGGAAACCGGCCCAAAGAAAA $A C C G C C C G G A G A A G G A A A G A A C C G G A G G A C C A A A A G A G A A G G$ A G G A A A G A A A A G G A A G GCCGGCAGGGGAAAGAGAGGGGAAAG GAAAGGAGGGAGGAGGGAAAGAGGGAGAAGGGAGAAGAACAA A G G T T G G G A A A GAAGAACAAAAAAAGGGGGAGAGAGGAGGAG G GAAGGAAAAGGGCAAGAAAAACGACAGAGGAAAAGGGGAGA G GAGGGGGGAAAGAAGGGATTAGCAGACGGGAAGAAACAGAG AAAGGAGCCGGGAAAGGAACCAAGGGGAAGGCCGGCCAAGAA A $G G G G A A A A G G G A A C C A A A G A G G G G G G G A A G A A A A A G G A A A A G$ A G G G G G G A G G G G G G A G G A A A A C C G G G GAAAA A G G G GA A A A A A $G$ A G G G G GAAAAA AAACAGAAGAGAAGACGGAAAAAGGGGAAAA A G G G G G G G G A A A G A GAGAGGGAAAGAGAAAGCCAAGGGAAAG G G G G G G G G G G G A A G G G G A A A A G G G G G G G G A A A A G G A A C C A A $G$ G G G A A G G T T G G G G C C G G G G A A A A G G G G G G C C G G A A G G G G A A A AAAAACCAAGGAAGGAACCGGAAAAAAAAGGAAAACCGGGGAA A C C G G C C G G G G A A G G G G G G G GCCAA $\mathcal{C} G G G G A A G G C C C C A A A A C$ $C C C G G G G G G A A G G A A G G A A G G G G A A G G A A A A A A G G C C G G C C C$ $C G G A A C C G G G G C C C C G G G G G G A A A A C C A A G G A A G G G G G G C C A$ $A G G G G A A G G G G G G A A A A A A G G G G A A G G A A A A G G C C A A G G G G A$ AAAAACCAAGGAAGGCCGGAAGGAACCGGAAAACCAAGAAAA ACCGGCCAACCAACCGGAAAAAAGGAAAAAAGGAAGGGGCCG G G G G G G G G G T T A A C C A A G GAA $A \operatorname{AGGGGGGGGGGGGGAAAAAAT}$ TAAGGGGAAGAAAGGGGAGGGAAAAGGAAAAAAAGGGGAAAC C GAA A A A G A A A GA G GACAGCAGAAAGAGAGGGGGGGAGAGAC A A G A G G A G G G GCC $C$ C A G G G G G G G G A A G G C C G G C C G G A A G G G G A
 ACAGAAGGGAAATAGACAGCAAAAGAGAACCGGGGGGATACA $G C C C A A A A A G G G A G G G G A A G G A A A A A A G G A G A A A A A A A A A A A$ A A G G G A A G G G G G G C C A G A G A G A A A G G G G G G G G G A A G A G A A C AAAGGGGAAAACCGGAAGGGGCCGGAAGGGGAGAAGAGAA G T TAAGGGGAGAAGGAAGGCCAAAGCCCCAGGGGAGAAGAGGAG GAACCGGCAGGGGCCAAGGAACCGGGGAGAGAAGGCCGGGGA G G G GAGAAGAGCCGCGGAGCCAAGGGGGAGGGAGGCAAGAAC $C \subset C A A C G G G G G A A A C G G G G G G A G G G A A G G G G C A G G A A G G A G G$ A GAAAGGAAGGAACCGACCGGAGAGGGAAGAGGAAAAAAAAA C C C G G GAAAAAAAGGCGAGAAAAAAAGAAGGAAAAAAGAGAA ACAAAAAGGAACCCCGGAGGGAAGAAGAGGGGGAGAGCAAAA GAAGGGGAAGGGGAGGGAGAGAGGGGGAGAGGGCCGGCAAAC AGGAAAAGGAAAAGGAAGGGGAAAGACGAAGAAGGCAAGAGG GACAGGAGAGGAAGAGGCCGGGAGACCAAAGCCGGAAGAGAA GAGGAAAGAGGAGAGAACCAAAAAAGAAACCGGGGCCGBCAA AAAGGAGGGGAGGAAGGACAGGGAAGGGGAGGGGGGAAAACA ACAAAAAGGGGAAAGGGACAAAAGAGGGGAAAAGGGAAAAAA A G G G G A A G GAAAAAACAGACCGAAAAAGGAACGAAGAAACAC
$C \subset C A A G G G G G G A A A A A A A A A A A G A A G G G G G A C C C C A A A A A G G$
 GAAAAAGAGGAAGGAAAGATTGGGGAGAAAAAAAAGGAAAAG G G GAA A GAAGAGGACGAGAAAGGGGACACAGACAAAGAAAAG
 AAAAGGACAAAAAGGAAAAAAGGCCAACGGGGGAGGACAAAG GAGAGGAAACAAAAATAAAGAGAAATTTAACAACCGGCAAAG GAGAGAAACAGAAGGGAAAAGAAAACGAAAGAAGGAGGACCT TAAAAAAGGAAGAAAAGAAGGAAAAAGAGCAGAACBGAGAAA G G G G GCCGGAAAAAGGGGGCCGGAAGGGGGGGGGAAGAAAGA A GAGGAAGGGGCCGGAAGGGGAAAGCAAGGGAAGAGAAAAAA A G G G A G A A A A A G G G G G G G A G G G A G G A A G A G A A G A GA G C C G A A C G G A A A A C C G A G G G GAAA $A \operatorname{AGGGGGGAAAAAAAAAAGGAAAAA}$ G G G G G A G G G G GCCAAAAGACGGAAAGGGAAGGAGAAGAAAAAA $A C C A G C A A A A A A G G A G G G A A G G A A G G G G G G G A A A A A G G G G G G$ GAGCAAAGGGGAGGGCCGGGGACAAGGCCAGCAAAACCCCCA
 GAAGGAAGGGGGAGGAGAGCAGACCCAAAAGAGAACCACGEG G G G G GAAAAAACCGGGGAAGGGGGGAAAAGGAGGGGAAAAAG G G G G G A A G A A G A A A A C C G G G G A A C C GA GA G GA G G CA G G G G A G AAGAAGGACGAAAGAGAAAAAGGAGAGACGAAACAAAAAACC A A G GACAAAGGGGGGAGGGGGGAGAACCCGGAGAAGGAGAAG A A A A G G G A A A CAGGAAACGCAGGGAGGAAAAAGAAAAAAGAA G A A A A A GCACAAGAAAAAGAGGAGGGGGGGGAAAAGGGGGGA ACCAAAAAAAAGAGACCAAAGGGAAGAGAAAAGACACAAGGA
 A GACAGAGAAGAGAGGGAAAAAACAAAAAAGGAGAAGGAATC CACAAGGCCCCACCCAGCCGGGGGGGAACGGAAGAGAAGAGC A G G G G G G A A A A C CAA $A \operatorname{A} A A A C A G G A A G G G G A A G G A G G G A A G G G$

 G GAGGCAGACCCCAGAGAGGAGGGGCCAACCAAGGAGGGGGG A G GAA A GCCGGGGAAAAAAGAGAGAAGGGAAAAAGAAGAAAA ATTGGAAAAGGAAGGAAAAAGCAAAGAGGCCGGAAAGGGCCA
 G G G A A A $\operatorname{A} A \mathrm{~A} C \subset A A G G G G G G G G G G G A C C G G G G G G A A G G G A A A A$ A G G G G A A G GAAAACCGGAGCAGGGGGGGGAACGCCAGAAAGAA A G GCCA $C$ G G A A A A $G A G G G A A G G G G G A G G G A G A A G G A G G G G G G$ G G G G A T T A A G G A A C C G G G A A G A C A GAGACA $A \operatorname{AGGGG} G A A A G G G$ GAAAAAGACGGAAAAGGCCGGAAGGAAGAAAACCAGAAAACA A A A A GAGAGAGAAGGGGGAAGCCGGCAAGAAGGGGGGAAAAA ACCGGAAAAAAAACCAAGGGGAGGGCCAAAGAGABAAGGGGG GAAAAAAGGAGGACGGGGAAGGGAGAGAGAGGGAAGGGAGGG A G G G G A A A G G G A A A GAGGGAAAAAGCGGACAAAAGGGAGAAA A G GCCCGAGGATTCCAAGAGGAGAAAAAGGGGGGGGAGAAGAG GAGAAGAGGAGCCCAGACAGGGGAAGGAACCAAAGAAAGAGA G G A G G A A G G G G G G G G C A A A G A A A A G G A GA G GAAAA $A$ A G G G G A AGAAAAGACAAGAAGCATTACGGGCAAAAAAAGGGAAAAGGA AAGGACCAAAAGGAGAGGAGAGAGAAACCAAGGAAGAAAGGG A G G G G A A $\operatorname{G} G A A G G G G G G G A A A A A A A A G G G A A G G G G A A A A G A C$ A G G G G A G G GAAAAAAAGACAAAGGGAATAAAAGAAGAAAAGC CA $\operatorname{CA} A A A A G G A A A A G G G G G G A G A G G G G G C A A A G G C C A A A G G G G$ G G G A A A A G G G A A A A G G G A C G G C C G G G G A A G G C C A A C C G G G G G G G G GAA A A GAAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} C A A A C A A G A G G A G A A G A G G A A A G G G$ G G G G G G GAA $A \operatorname{A} A \mathrm{~A} G A A A G G A G A A G G A A A C A G A G G G G G A A G G A$ A GAAAGGCAGGCCGGAAAAACGGAGGCAGAGCAGGAGGAGAA G GAGGGGGGGAGGCCACACGAGAGAAAAAACGAAGGBAACCG G GAGGAAAAGGGGGGAAAAAGACAACCGGGGCAAAAAGGGGG A G GAGGAACAGGAAGGGGGGGGGCCAAAAAAGGAAGGCCGGG

GAACCGGGGAAGGAACCGGAAGGAAGGGGAAGGGGAA

 G G GA $\operatorname{A}$ GAGGACGAACCCAAGGAGGGGGAACCGGGGAGAAAAA G G G GAACGGGGGAAGAAGGAAGAAAGGGGAACCGAAACAGGG
 A G G G G G A A A A G GAGGGGAAACAAAAGGAAAAAAAA GAA G A A A A A $G C A C C A A A A A A A A G G A G G G G G A A A A A A A G A A A G A G G G G G T A G$
 G GGAAAACCAAAAAAGAGAGAGGAAAGGGGGGGGGGGGAAAA A G G G GCCAAAAAAGGAAAACCCCGGGGGGAAAAAACAAAAAA AACAAGGGGAAAAGGAACCGGCCGGAAAAAAGGAAAAGGGGC CAA $A \operatorname{G} A A A A A A T T A A A A G G A A G G T T A A G G G G C C G G G G G G G G G$ GAAAAGGAAGGAAGGGGGGAAAAAAGGAAAAGGGGAACAGGG G G G A A G GAAAAGGAAAAGGGGGGAAGGGGAAAAGGAAAACAA $A C C G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G$ G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G G G G G G G A A A A A A G G A A G G G G G G A A A A A A G G G G G G A A $G$ $G C C G G A A A A G G G A A A A A G G A A G G A G C A T A G G G G A A G A G A A A A$ A A GAGAGGAAAGACCAGAAAGAAAAAAGGGGAAAAAAAAAAA GAAAAAGGAAAGGAAAAGGAAGGAAAACCGGGGAACACAGAA A A GAAGCGGAAAAGAAAAAAGAGAGGGAAAAAAGGCAAGGGA A G G G G A A A GA G GAGGAAGGCCCCAATTGGAAGGAAAGAGAAA A G A A A C A G GAACC G G G A G A A GAAAAGGACGAGGAAAAGACCC C GAGAGAAGAGAGGGCAGGGGGAAGGAAAAGAAAAAAGAAAG
 A G G G G G G G G A A A G A A A A G GAGGGAAAGGGCCAGAAA GAGGGG
 A G G A G G G G G G G A A A A G G A G A GCGAGCCAAGGAGAAA GAGG GA AGGAGAAAGAGAGAGGAGAAGAAGGGGAGCAAGGGGAAAGGA A G G C C G A G A A G C A G G A A G A G A A A G G A A A G A A GAGGA GAAAAA AAAAAGGAAGAACATCCGGGGGGCAGAGGGGAAAAAAAAAAA A GACAGGAGCAACCAAAGGAAAAGGAAGGGGAAGGGAGACBA $G C A G A A G G G G G A A G A C C A G G A G G C C C C A A G G G G G A A A A A A A G$ GAAAAAAAAGACCGGAGAAGAGAAAAAGGAAAAAACCGGGGA ACCAAAAAAGGAGGAGGGGCCGGAGAAAAGGGAAAAAAAGGA
 $C G G A G G A G A A A G G A G G G A A G G G G G G G A A G A G G G G G G G A A A A A$ ATTACAGAAAACAAAAGAGGAAGCAGGCCGGGGGGGGGBCCA $A G G G G G G G G A A A A G G G G G G A A G G A G C C G A A G G A A G G A A A G G G$ $G G A T A A C G A A A G A G G A A G G A A C C C C A A C C A A G G G G A A A A G G A$ $A G G G G A A G G G G A G G G A A G G A A G A A G A G G A A G C A G A C A A G G A G$ AGGGGAACCGGAAAAGGAAAAAGAGACGAGACCAGAGAGACA GAAGAAAGGAGAAAAAAAGCCGGGGAAGAGGAGACCACACAAA A A A A G A G A A A A A C A A A C A A G GAGCC GAC C G GA GCC G GA G G G G GAAGGGGCCACAAGGCAAAGGAAGGGAGGAGGGGGAAGGGGG G G G G A G G A A A A G G A C G A G A G A G G G G G G C C G G G G G G G G C C A A G GAAAAAAGGAAGGGGAGGAAAGGGGAGCCAAAGGAAGGGGGA GAAAGAGCACACAGGAAAAGGGGAAGGAAAGGAGAAGAGAAC A G A A A A A A A A A GAATGGAACAACACGGGGAAAAAAAAAAGBA A A A A G A G G A GAAGCGGGACGGAAAAGGGAAACACCGAAGAAA GAGAAAGAAAAAGGGGGAGAAAAGGGGGAAAAAATCAGAAAC
 A G G G G G GCCGGAGACAGGACAGAGGGGAGGAGAATCAACCCG AAACCAAAAGGAAAAAAGAATCCCCGAAGGAGGAAAATXGGG G G G A A G G A A A A A A A A G GAACCGAGGGAAGGGAAAAAAAAAAC A G G G A C A A G G G GA $A \operatorname{GA} A G G A A G C C A G G G A A A C G A G G A G A A A A A$ A A A A A A A G G G A A G A A A G A A A GAGGACAAGGAAAAAAAACCCC $A \subset A A G C A G G A A A G G A G A A C A A G G G A G G C C A G A A A G G G A G A G G$

G GAGAGGGAGGAACCAAGGCCAGAGGACCGGAAAACCCAACB A G GCCGGAAAAGAAGGAGACCGGGGGGAAACAAAAGATAAAG G G A G G A G G A G A G G G GAC G G A A C A A A A A G GAAAACC G GAA A G C CAA A G G G G GATAGAGAAGGGAACAGGGAGGGGAGGAAGGGGA A G G G GCCGAAAGGAAGGGGGGGAAAAAAAAAAAGAAACACAA
 A G G A A C C A A A A G GCCCAGGAAGAGAAGGGAGAAAGAAAAGAA $G G A G A G A G G A G C C G A A A A G A A A A G G A A A A A A G G G G A G G A A A G$ GAGGAAAGAGGGGCAGAGAAGCAGAAGACCCGGGGGBAGACB GCCAAGACCGGGAACCCCAGACCGGAGGGGGTTAGGGCCGGG G GAAAACGGGAGGGAAGAGAGCAGAAGGAAGAGAGAAGAGAA
 A A A A A A G G A A GACAACCGGAAGGGGGGACAAAAA GAGAATTG A G G G A A G A GAACAAAAAAAAAGGGGAAAAGGACAAAGCGGGA AA $A G A G G G G C C A A A G C C G G G A A G G G G A T A G G G G G A G G G G G A G$ AAAAGGGCAAACATTCAGAGGAGGAGGGGGAGGAAGGAAAAG GAAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGAAAAGBA A A A A A G GAAGGAAAAGGAAAAAGAGACAGAAAAAGGGGAAAA A GAGGGGAGAAAAAGGGGGGACAAGAAAGAGGGAAAGAAAAA A G G C C A A A A G A G G G G A A G A A T G G G G G A G G A GAA $A$ G $\operatorname{GA} A A A A A A G$ GAAAAGGGGAAGGGGGAACGGAAAAGAGGCCGGGGGAAAAAA C C C T T G GAAAGGGAAAATTAAGGAGCAGGGGAA G GACGGGGG G G GCCGGAGAAAGCAAACCGGAAGAGAAACCGGAGGGACAAA GAAGAAACCAAGGGGAAGGCCGACCGGCCGGAGAAAGGAGAG GA $\operatorname{G} A A \operatorname{A} A A A A G G G A A A A G G G A A A A A A A G G G G C A A A G G G A G A B$ G G GAGGGAAGGGACCGGAAAAGGAGGGCCAGAAGGGAGAAAA GTAGGAAAAGGAAGGGGAGGGAAGAAGCCACGGAAGGGAAAC CAAAAAAGGGGAGGGGGAAAAGGAACCAAGGAAGGCAC GAAA AAACCAAGGAAGGAAAAACACAGGGCCGGCAAAAAGAAGGGA AACAAGGAGGGAAGGGGAAAAGGAAAAGGAAAAGGAAACAGA A G G A A G G A G C G A A G A A G G G A A A A A A A GAGAGGAACAAGA A A A G GGAGGGAAAAAGAAGAAAAGGGGAAAGAGAACCAGGCAAAG GAGGGAAAGAAGGCAGGGAGAAAGGAACCGGAAAGAGGGCCA AGGACAAAGGAAACAGGACAGGAACAAAAAGGGGAAGACBAA A A A G A C C G G G A G G A G G G G G G G G G G A A A A A G G A A G G A G G A C C A A A A A G G A A A GAGGAGGGAAGACAGAAGGAA GAGAGGGGAAAA G G G GAAAACCCAACCGGAAGGTTGGAAAAAAAAAAGGGAAAA AAACCGGAAAAAAAAGGAAGACACCGGACAAAAGGAAAGGGA G G A A A A G G G G A A A C C A C G GCCAGGGAAAAAAAGGGGGCAAA G GAAAACCCACAAGGGGAAACCAAAAGGGACCCCGGAGAGGAA

 $C G G G A A A C C C C G G A C G G C C G G G G G G G G A A A G A G G A C A A A G G A$ GCCGGGGAAGGAACCGGAAGGAACCCCAAGGAAGGAACAAAA $A G G A A G G A A G G A A A A A A G G G G G G G G G G G G G G G G A A A A C A G B A$ A G GAA A G G G G GAA A GAAAAACCCCGGAAAAGGAAGGGGGAAAA $A G G A A G G G G A A G G G G G G G G A A A A A A A A G G A A A A G G A A G A A A G$ GAA A G A A A A A A A A G GCCAAAAGGGGGGAAGAGAA GAGGGGGA
 A A G G G G G G G G G A A C A A A A A A C G GAA A GAA A GAC G G GACAAC A G G GCCA $C$ A $A \operatorname{AA} A G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G$ GCCGGAAAAAAAAGGGGAGAAGAACAGAAGGGGAAGGGAAAAA A G G G G A A A A G GCCCCAAGGCCAAAAGGGGAACCAAGGGGTTG G G GAAGGGGAAGGAAAAAAGGCCGGAAAATTAAGGAAGGGGG G G G G G G G A A G GAAAACAAAAAGGGGCCGGGGGGAAAACAAAG G G G G G A A G G A A A A G G G G G G A A A A C C G G G G C C A A G GAAAA A G A ACCAAAACCAACCAAAAAACCAAAAAAGGAAAAGGAAAAG GA A A A G G G G A A A A A A A A C CAA A G G GAAGGGGGGAAGGGGAAAAA $A C C G G A A G G A A C C C C G G A A G G A A A G G A C C A A A C A A G G G A A A A$

GAAAGGGAAGGAAGGCCGGCAAAGGGGGAGAAACAGG
 GAACAGGACAGAAGACAAGGGAGGAAAGAAGGGAAAACAGGG GAGACAGAAGAGAAAAGGGGGAGGGGAGGGGAAGGACAAAAA A G GAA A G G A GAGGACGGAAGGGGGAGGGGGGGAAAAGCAGAG A G G G G A G G G A G A G A A CAGGGGAAGAACAAGGCCAAAAAAAAC $C \subset C G G G G A A G G G G A A G G G G G G A A A A A A G G A A G G G G C C G G C C A$ AAAGGAAGGAAGGAAAAGGAAAAGGGGAAAAGGGGCCAAAAA A G G A A A A A A G G A A G G G G G G G G G G G G G G G G G G A A G G G G G G A A $G$ GAAGGGGAAGGAAGGGGGGAAGGAAGGGAGAGGAAGAAAAAA A A GAGAGGAAAAGAAAAGGAAAGACAGAGCCGGAAGGGAAAA GACAGGGGAAAAAAAGAAAAAAGAGAAAAACCCAGAAAGAGA G G G GAGGAACACCAAGGGGGGAACCCCAAGGGGAGAGAGCCA G G G C A A G G G A A A A G G G GC C A A A A A A A A A A G GAA G G G A G A G G A AAGGAAGGGGAAGGGAAAAGGGAAAGGAACCGGGGAAAAAGC AAGCCAAAAAGAGGGGAAGAAGGGAAAAAAGGACAAAAGAGA A GAACAGGGAGGAGAGGGGAAAAAAACAAGGAGAGCAGGGGA G G G A A A A A A A A A A G G G A A CAGAAGGCAGGCCAGGACCAAGEC CAAGAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGAAAACCB A GAA A A G G GAAGGGGCCGGGGAAGGCCCAAGGACAGGCCGGA $G C C A A G A A A G G G G G A A A G A A A C C G G A A A A G A A G C A G G A G G G G$ GCCAGAAGGAAAAGAGGAAGAGGGAAGAGGAAGAGAGAGGAC A GAA A GAGGGGCCGGGGAAAAGGGGAAGGAGAGCAAGAGAAA A A G A G G G G G A A GAA A G G A G GAA A G A G A G A G A A A A A A G G A G G A A A A G G G A G G G G G G A A C C G G G G G A A T G G G G A G G G A A G G C C C C G G G GAAGATTAAAAAATTAGCAGGGAAAGCAAGAAAAGAAAAG GAAGGAACCGGCCAGAGAGGAAGAGAGACAAAAGACCAACAA ACAGGAAGGGAAAGGAGAAAAAACAAGGGGGAAAACCAAGAA $A C C A A A A A G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A$ AAAGGAAAAAAGGGGAAGGAAAGAGCGCCAAGGATAAACGAA GAGAAAGGGGAGGGAGGAACCAAAAGGCCGAAAGAAAGAAAG G G G GAGGACAGAAGGAGGGAGCAAAAGCGCCAGAAGAAAAAA GAAAACCAAAGAGGGGGAATTAAAGAGGAAAAGCCAACAGGG AAAGACGGACCAAGGGAGAGGAGACAAGAGGGGGAGAAGAAA A GAGGGGGGAGAAGAGGAAAAGAGAAGAAAACGATCCGAABA GAAGAAAAGAAGGAAGGGGGGAAGGAGAGAAGGGGCCGAAAA A G GAA A GAGGACCAAGGGGAAGGAAGGGGGAGAAACCTTAAG AGGCCAAAAGGAACCAAAAGGGAAGAAAGGAACAAAAGAAAA G GACCAGGGGGAAAAAAGGCCAAAAAAGGAAGAGACAA GGGG A G GCCCAAGAACAGGGGAGGGAAGGAAGGCCGGAGGGCAGEG G G G G G G G C A A G G G G G A A A A $\mathcal{A} G A A G G G G G A G G G G G G G G G A A A G$ G G G A G G A G G G G G G G A A A G G A C A A G G G A A G A A A G G A C C G A A A G GAAAGAAAACCCAGAGGGGGGGGGGAAAAGAAGGGAGAGGGG A A G A G A A C C G G G G G G A A G G G G G G A A A G G G G G A A G G G G C C G A A
 A G G A A G G G A A G A C A A G G A A A CAAACGGGGAAAAGGAAAAGCC AACCACCGGAGAGGAGAAAAAAAGGGGAAACAAGAGAAGAGG A A G G G A A A A A A G GACAGAGCCGGAAAAGGGGCCAAGGACGBA A G G G G G GCAGGAGGACCGGAAGGGGAGGAAAACAAAGAGGAG G G G A G G G A A G G A A A C G G G A GA G GACGGAGCAGAAGAAA G G G A G G G A G A G G G A A G G A A G G G G A A G G A A A A GAGGGGGGAA GA GA G GAAGGGACAAGCCAGAAAACAGAAGATGGAAAAAGAGGAAGA TCCCCAAAAGGCCAAGGAAGGGAGAAGCAAGACAAACAAAAG GAGAGAAGGGGAAGAAGCCAGAGAAAAAAGGGAGGAAGAGGA A G G G G A A A G G G A G A A A A A A A G G G G A G GAC G G C C A G G G A G G G G G GAA $A$ A $\operatorname{G} A A A G A A T T C C G G A A G G A A A G G G G A G G A G A A G A A A C$ C GAGGAGAGGGGGAAGAAAAGAGAAAGAAAAACAGAGGACAA CAGGAGGAAAACCGAAGAAGGGAAAGGGACCGGAAAAAAAAG GAACAACAAGGAACAAGAAGGACAGGGGGGGCCAAAGGGAGG

AAAAAAAGGACAGGGAGAAAGCCAAACGGGGCCAAGGGGGGA A G G A G A A A G G A G A G A G G G G G G G G G G A C A G A A A G G G G G A A G G G GAAAAAAGGAAAAAAAAGGAAGGGGGGGGAAGGAAGAAAAAAG GCCAAA $C$ A $A \operatorname{GA} A G A G G G A A G G C C A A A A G G G G G G A A G G G A A A A$ AAA A GAAA $A \operatorname{A} G \mathrm{G}$ GAGAAACCGGGAACGGAAGGGAAGGGAGGGG A A C G G A A G G A A A G A A G A T T G G G G G A A GA $\mathcal{A} A G G A G G A A G G G G G$ GAACCGAGAGGGGACGGGGGGGAAAGGAGCCGGGGCCGAGAA CCCAAAAGGGGGAGGAGAGAGAGGAGAGGGAAAGGAAAAGGA A G G A A A A G A A G G A A ATTCCAAAAAAGGCXAGCCAAAAAAAAG G G G G G A A G G A G G G G G G G GCGGAGAGTAAGCAAA G GAACAAA G A A G G G GACAGAAGAAGGAAAAGGAGAGGGAAAGAGGACAAAG GAACCAAACGGGGAAACAAAAGGAGGGCCAAAAAGGGGGGGG G G G G GCC G A G G G G A A G G GAA A A CAAAAGGAGGAGAAAAAGAG A A A A A A A C C G G G G G GACAAGAGACAAAGGAATTAAAACAG GA A GAGGAAGGGGAGGGAGAGGGAAAGAAACAGGGAAAAAAGAA G GAAAAAAAGAGGGAAAGGCCGGTTAAGGGGAAGACAAAAAA AAAGGAGGAGGGAGGAAAAAGGAAGAAGAAGCCAAAAGBAGC AA G G GACGGCCCAGAAAGGAGCCACAAAGAGGAAAGGAGGGG $G G A C C A A A G A C G G G G A A A G G A A G G A G G A A G A G A G G A A G A A C A$
 CAC $\mathrm{C} A \mathrm{~A}$ GAGGAGAGGCCAGAGGGGGGGGGAAAAAAGGAAGGC C G A A A T A G A A G G G A A A GAC G G GAGGAGGAAGAA G GAAC GAAA A A A GAAGACGGAAAAGAACGAGGCACCCCACAGCCAGAGAAG GAAAAGGGGAAAAACGGGGAAAAGAGGAAAAAAGGAAAGA GA A G G G G G G G A G G A A A A A GAGAAAAAGGGAACACAAACAAGCAA ACCAAGGGAAAAGAAGGGGGGAAAAGAAAAAGGCCCCGAAAA A GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGGAAAAG G G GAAAAGGCCAAAAAGAGGCTTGGAAAAAAAAGAGGGGGGG G G G G A G A G G G G G G T T A A G G G G G G G G A A A C G A G G A G G A G A A A $G$ GAAAGGAGGAGGGAAAAAAGGGGTTAAAAAAGGAAGGGAGAG GAATTACAACCAAGGAGGGGGAGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAA G GAGAACAAAAAAAAAAAAAGGAGAAACCGAGGAGAAGAGAA $A C C G A C C A G C C A A G G G G A A A A A A G A G A G G G A G G G G G A A G C A A$ C G A A A C A A GA G A A A A A G G GCCGGCCGGGGGGAAAAAAGAAAG G G G G GAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGAACAAGA GAACCGAGAGGAAGGGGAACAGAAAGAAAGGGGGGAAAGAAA A G G G G GAGGAAGGAAGGGACAAAAAAAGGCAAGAACCCCBAA A G GAA A GAGGAGGGGGGAGCAAAGGAGAAGGCCGGGGAAGAA A A A A A A A A A A GAGAAAAAAGAAAGGAAGGAGAGGAGGABAAG G G G G GACGGGGAAACAGGAAAGGCCCCAACCGAAAAGAGGGA GAAG $A \operatorname{AAACGGAGGGGGGGAAACCGAAAAAAACCGGAAGGGGC}$ C GAGAGGAAGAGGAACCGGAAAAGGGGGGAAAGGGAGGCGGA A GAGGAGACGGGAGGAGAAGGGGGAGGAGCCAGAGACGGAGG
 A G G G A G A A GAGGGGGAGGGCCAAAACCAGGGAAA G GAAGAAGC CAAAAGGAAGGGCGGATGGAAAAGGGGCAAGAGAGGACCCCB GAAGAGAAGCAAGACAGGAAAGGGGAGGGGGGGCGAGCCGGA AAGGAAGAACAGGACGAGGGAGAAGCCAAAAAAAAGGAGGCAA ACACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAA A A A A A G G G G G G G A A A A A A A G G G G G GCCA GCAGGA GA GAAACA $A G A G A A G A G G G A A G A G G A A C C G A G G A G G G A G G A A A G A G G G G G$ GCCAGAAGAGGAAGGGGAAGGGGGGAAAAGAGAAGAAGATAA A GAAGGAAAAGGGAAAAAGGAGGACAAAAAAAACCGAAGAGA GCCGAAAGGAGAAAGAAGAGGAGCCAGGAGGGGAGAAAAAAA A ACAAAAGGCCAGCAAAGGAAGAACAAAAGGCCAAGGGGGGA GAAAGAAATGGAGAAAAAACCGGGAGGAACCGGGGGGCCGGG $G C \subset A A A A G G A G G A A A A A A G A G G G A A G C A G G G C C A A C A A A A A A$ G G GAAGGGGAGAAGGGAAAGAAACCGAAGAAACGAAAAAAGA

CAGTAAAAGGAAAAGGAGGAAGGAAAAGGAGGAGAGG
CAAAGGAGAAAAAAGGAAGGAGAACGCGAAGGAGAGAAAAA AA GAAAAGGCCCCAAAAAAAAAGAAGGAAAAGGGGATAAAAA AACGGGGGGAACCAAGGAACCGGGGAGGACGGGGGAAAACAA GAAAAGGACGGAGAGAGAAAGAAAAGACAGGAAAGACGAGBA AAACCAGGGAAGGAAGAAAGGAAACAGTAGGAAGGAAGAAAA A A A A G A A A A A A G G A A A A G G GAAA $A \operatorname{AGA} G A A A A A A A A A G G G G G G$ GAAGGGGAGAAACGAAAAATTAAAGAAGGAGAGAGCCGAAAG G G G G G GAGAGAACACGAGAAAAGGGAAAAAGTAGAACCCAAA AGGGAAAGGAAGAAACCAAGGAAGAAAAAAAGGAAGGCCAGA CAAAGGGAGAAAAGGAACAAAAAAAAAGGAAAGGGCAAAAAA A G GCCCGAAAGGAGGGGGGGGGGGGAAGGAACCGAGAAAGAC G G G G A A A A G G G A A G GAAAAACAGACGGCCAACAAAGGAGAG A A GCCAA G GAAAAAGAAAAGGAGAAGGCCGAAAAAGGGAGAA GAGACAAGGAAAAGAGGACAACCGGAGGGAACAAAGAAGABA A A G G G G GAAAAAAAGGGAGAAGGGGGAAAAAGGGGGAAAAAA GGACACCAATTGACCCCAACCAGAGGGCCGAGACAGBAAGGG GAAAGACAAGAGGAAGAGGAAGGCACCAGCCAGTTCCAGAAG GAGCCAAAAAACCGGGGAGGAGGAGCCAAGAGGGGCCGAAAA G G G G G A A G G C A G G A A G G G G A GCCAGAAGGAAGGCCAAAAGAA A AACCCCAAGGGAAGAGGAAACCAAAGCCTTAAGGGGAAAAA GAGGAGAGAAGGGGGAAGGGGGGGAAAAGAGAAAAAAGAAGA GCCGGGGCCGGAGGGGAAAGGAGAAGGAAGGAAGGGAAAAAA A G G A A G G G G A G G G C A G G C C G G A G G G C CACAGGAGGAAGA A A C AAGGGACAGGAGGAGGACCAACCAGGGAAAAAAACGACAAAG GAGAGCAAAGGAAGGGGCATTAGAGAAGGCAACGAGAAGAGT A G G G G G GCCAAAAAAGGCCGGAGGGAAGAAAGAGAAAGAAAC CAACCAAAAAAAAAGCAGAAAGAGGGGAAAGGAAGTACBGGA GAAGGAGAAGGAAGAAAGGGGAGAAGGGGGAGAAAAGABAAG AACAGAGAAGGGGGGAAACGGAAGGAAAAAAGACCAAGAAAG G G G G G A A A A A A A A G G G G G A G A G A A A CAGAGAGATTAGCAAGA GACAAAGGGAGGAGGGATTGAAGAAAAAGGACCAGGGAAAGG AAAAGAACCGAAAGGAAGGCCCCAAAAGAGGAAAGGGGAGAG A A G G A A A A A A A GAGGCAAGCCAAGACAAAAGGGCAAAAAA G G G G G G G G A A A A C G G G G G G G G A A G A G A G A G A G A C C A G A A G G G G G G GAGGGGAGGAGGGAAAGAGGGGAAAAGAGAAGGGGAAGAAG AAGACATAGAGAGGAACGAGGAGAAGGGAGAGAGGGGCCGGG G G G G GAAGAGGAGAAGACGAGAGAAAAGGCCCGCCAAAGACA C C A G G A A A A A A CAA $A C C G A G G C A G G C C G G G A T A G G A G A A G G C$ C G G A G G G A GAA $A \operatorname{GAA} A G G G A A A A A C C G A C C G G C C G G G G G G G G A$ A G G G G A A A A A A G GAA $A \operatorname{A} G A A G G G G A A G G A G G A G G A A A G G G G G G$ GACAAGGGAAAAGAAGGACAAAAAAAGAAGGCABAAAGGGGG GAAA A A G A A A A G GAACCAGGGGGGGCCGGAAGGGGAAAGAAC
 GAAGGAAAAGGAAGAGGAACCGGCCAGGGAGAGACGBAGCAA GAGGGGACCGGAGAAAAAGAAGAGGGAAAAGAGGAGACCGBA G G G A A A A G G G A C C G GAGGGCAAGGGAGCCAGAACC GAGAAAG A GAAACCCCGGAAGGAGACCCGGAACCAACCAAGGGGGGGGA A A GAACCGAGAAAGGAAGGGGAGCCAGCCGGGGGGACAGAAG G G G A G G G G G G G A A G A GAC C T T G G G G G GAAAAAAAAA $A$ A G GA GA A
 A A G G GAGAAAGGGGGGGAAAAGGAAAGCAAAAGGAAAAGAAA G G A G A G A A G G G A G G A G A C C A G G G T A GAGAA GAAAAAA $A$ A G G $A$ A A A A A G GCCAAGGGGAAGGGGGGAGAGAGAAGACCGGGAGGA G G GAAGGCCCCGGAAAAAACAAAGGCCAAAAAAGGGGAAAGA A G GAA $A \operatorname{GGGA} G G A A A A A G G A C A C G A C C A C G G G G A G A G A G A A A$ GAGAAAAGGGGCCAGGGAAGGACCCGGGAAACCACAACAGGA A G A A GCAA $\mathcal{A} A G A G C A G G A G G G A A C C A A C A G G G G G A A G G G G G A$ GAGGAACGGGAAAAAAAGGGGAAGGGGAAGAAGAAAAAGAGA

GAAAGAGAACCAAGGACAAGGGAAACAAAAGAAGGAAGAAGB GAGGAAGAGAAAGAGCCAAAAGGAAGGAAAAAAAAGGCAGGG A A A G G G G G G G A G G A A G GAA A A C C G G C CA $A$ A A A G G G A G G G G G G G G G GAAAAAAGGGCAAAAAGGGAGGGGGGGAAGGAGGGAACAG A G GAACAAAAGGAAAACGAGGGGCAGAAAGAGGGGGAGAAGC C C C A A C C A A A G A C G GCCA GTTGGGGAGGGAGAAAAAGAAGAA
 AAGGGAAAAGGAAAAAGGGGGACCCACGGGGGAGGAAAAGAA G G A A G A A A GA G A A A A G G A A A A A GAGGGGAAAGGAACCGGGGA AGGAGAGCCGGGGGGAGGGAAGGAAAGAAGACAGGAAAAGGA C G G G G G G G A A G A C G GAAGAAGATAAGGAAGGAAAAAAAACAA G G A A C A GAGGGGGGGAAAACCGAAGAGGGAACCAGCAGAGAG AAGGAAAGGGGAACCAAAAGGCCGAGAAAAACAAAAAGAGAA AAGAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAG A GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGGAAAA $C C G G A A G A G A A G G G G A G A A G A G G A A A A A A A A G G G G A A A A G G A$ A A ACACCAAAAAAAAAAAAGAGGGAAACAGGAAGGGAA GAAA A G G GAGGAAAAAAAGGGGAACCCAAGAGAGAACGGGGAGAAA GAGACAAAAGGGGCCAAGAAACAGGAAGGAAGAAAGAAAAAA
 G G GAAGGGGAACCAGCCGGAAAAGGAGGAAAAGCCAAAGAAA A G GAGAAAAAAGGAAAAGGGGAAGGTAGAGGAAAAAGCAACAA A G GAACAGGGGCAGGACAAAAGAAAGAAAGGAAGGGGAAGAG G G G A A G G A A A A G G G G A A A $\mathcal{A} G G G A G A A C G G A A G G G G G G A A G G G$ G G G G G G A A GC G G G A A A A A A G G G G G GAAAAAAA A A G G G GAAA C $\mathcal{A}$ GAGAGAGAAGGGGCGGAGAAGAAAGGGAAAAGCAGAAGAGAA GCAGAGGAAAGAAGGAAAAAAGGAAAAACGGCCCAGGAGGGG
 GCCGGAGGGAAAAAAAAAGAAACCAGAGGGGAAGGGGCAAAC CAATAAGAAGGAAAAGGGAGACGGGGGAGGGAGAAAACAGGG GAACCCCAACCGGTAAACCAACCGAGGAAAGAAAGCCAAAAA AGGAACCAAGGCCAAAGGGGGGGAAAGAAGGAAAAGAAAAGA GAAGGCAGGAGAAAGGGGGACGAAGGGCAGGGAACGGCAAGG G GAAAGGGGAAAAGGCCACGGAAGGCCAAGACCAAGGGGGGG G G G G G G G C A GACC G G CAAA A G G G G G G G A A A A A A A A A A A A G C A A G G G G GCACCAAGAGAAGACATAGAACAACAAAAGGTTAAATG A A A A A A A G A A A A A A A GGGAAGAGGAGAGGAGCAGAGAAAA A A AAAAAAGGGGAAACCGGCCAAAAGAGGCCACGGGGAGAAAAA GAAAAGGGGGGAAAATTGAGGAGACAGAAGGCCGCCCBGCCG GAGAAGGAGAGCGCAGAAGGATTCCCCCAAAAACCCCAAABA AGGACGGACAGAGGAAGGAACGGAAGGAACCGGGAAAAAAAA
 A G G A A A GAAGGAAAGAGGGGAGGGAGGAGAAGGAAAGCCGBA A A A G G A A A A C C G G A A G A G GCC G G G G A TAGCCGGAGCC G GAA G GACAACCAAAAGAAAGGGGAAAAGGGGGGAAAAAA GAGAGGA
 A A A A A $\mathcal{A} G G G G A A G G G G G A C G G G G G A G C A G A A G G G G A A A A A G G$ GAAAAAAGAGAAGAAAAACAAGGAGAGAAGGAAAAGAAAAAG AAGTTGGAAGGAACCCCGGCCAAAAAGGGGGGGAGGGAAAGA A G A G G G G A G G G A A A A $\mathcal{A} G G G G G G G G A A A A A G G A G A G G A G A G A A$ A G G G G A A G G G G A A G G A G G G A A A A GAGAGAA $A$ A A A A A G G C C G G G G G GAAGGCCGAGGGAAGAACCGAGGGGAAACAAACGAAAAAA A A G A A A T G G T T A A C A G A A A A G A A A A G G A A G G C G G A G G A A T T A
 AAAAACCAAGGGGAAAACCAAGGAGAGAGAACAGAAGGGGGC C GACCAAGACAAGACAAAGAAACGGGGAAAAGGAACCABAAG ACAAAGGGCAAGGAAAAGGGGGGGAAGAGAAAAGAAGAAAAC CAAGGAGGGAAACGAAGAGAAAACCGGAAAAGGAAAAGGGGA $A A G G G C C G G A G G G A G G G A A G A G G A A G G G G C A A G A A A A G A A A G$

A A A G G G GCCAAGGGGAGGGCCCCACAAGAAACAGAGG
 GAAGGAAAAGAAGAAAACCAGGGAGAACAAAGAGGCAAAGGG G G G GATTGAAAAAGGGGAAGAAAGGGGGGGGAAAAAACAAAA
 ACAAGGGAAAAGGAGGAGAATAGAGCCAGAAGGCCAAGCACA GAACCACAAAAAAAACCGAGGAAGAAGGGAAGGAAAAAAAAA A G G A A A A A A G GAA $A \operatorname{AGGGAAGGGGAAAGGACCGAGGATGGAGA}$
 AAAGGAAGGCCAAGGGGGGAAAAAGCCGGAAGAAGAACCCCG G G GAAAAAAACAGCGGGAGAAAAAAAAGAACGGGGAAAAAAA A A A A A A A A A A A A GCACAGAAGGAGGAAGGAAGGAGGGAGGGC A A A A A A A GACCCCAGGGGGGGAGGAAGAAAGAAAAAA GAGAGG $G C A A G G G G A G A A A A C G A G G A G G G G A A G G G G A A G A G C A A G C A G$ AACAGAGGACCTTGGGACACAAAAGGCGAGGGGAAAGAGAAG G G GCGGGACGGAAGAGGTTAAGGAGGGGAGAGCCGGAAAAAA G G G G G G G A A C C G G G G G G G G C C G G G G G G G G G A G G G A G G G G A A A GAGAGAACACCAAAGGGAAAGGAGGGGGGGAAAAAGAAACCB $A G G A C T T G G G G G G G G A G A A G G G G A A G G G G A A G G A A A G G A C A A$ A G GCCGAAAGAGGAAGACGAAGGGGGGGAGGGGAAGAAAAAG GAAAGAAAAGGGGGGAAGGCCGGAAGGGGCCGGGGAAGGGGA GAAGAAGCCAGGGGGCCGAAAAAAAGGAAAAGGAAGGGAAAAA ATTAAGGAGAAACAAAGGGAGAGGGGAGAGGGGAGAAGAGAA A A G A A A A G GAACC GAAGAAGAGACCCACCAAGAAGAAGCCT $T G G C A A T A G C C A A C C G G G G G G A A A A G G A A G G G G G A A A A A A A A$
 A G GAAA A CAAAAAAAGGAAGGAAGGAAAAAGAGAGAAGAGAA A G GAGAAAACCGGGAAATTGGAGAAAAGGGGGGAAAAGAAGG GAAGGAGAGGGAGGGACGAGGGGAGGGAAAGCAAAAGCCCBA GAAAAAAAAGGGGGGGGGGCCGGGAAGGGGACCGCCCAAGGG A G GAACCAAAAGGAAGGCCGAGAGAACCAAAAAAAAAAAGEG G G G G G A A G G G G A A G G G GCC GAA A GAAAAAA AAAA A G G G G G G T
 G G G A G A A A A A A A A C C CAA GAAAGAAGAAACCACAAACA G GAG
 G G G G G G GCCAAGGAACCGGGAAGGAAAAAACAAAGACGGGGG G GAAACCAAGACCGGGGGGGGGAAGAGGAAGGGGGTAAAAAG AAAGAGGAAAACAAAGAGGGAACAGAGAGATCGGGAAGAGGC CAAGGAAAAGAAGAAACAAGAAGAGGGAGAAAGGAGGCAGAG
 A G G GAA A A A G G A A A G G GAA A A A A A A TAAAAAAAAAAAAGAAGG C G GAG G G A A C C G A A A GAGAGGGGGAATAAAAAGGGGGGACAA AAGCCAGGGGAAAAGAGAAGGAGGGGGGGAAGGAAAAACGGG GCCAAAAGAAAGGGAAAAAAGGAAACAGGCAGGGAAAAAAAC $C \subset C A G G A A A A A G G G G A A G G C C A C G G G G G A A G G G A A G G G A G A A$
 G T A A A A A GAGGGAGGAGCACCGGGAAGAGCCAGAGCAAAA GA G G G GAGGGAGAGGGCACAGGGGAGCAACCCCAAACGGAACCT TA $A$ A $\operatorname{l}$ GAGGAAAAGGAAGGGGAATTAAAAGGGGAGAGGAGGG GAGACAGGAGGAACAGGGGAGGAAGACGGGGGGAAGAAAGAG A GAA A G G G GAA A G GAGAAACCGGCCAAGGAGGGGGGAAATXA $A C C G G A A A A C C G G G A G G G G A A G G G G A A G G C C A A A G A A G G A A A$ A A A A A A A A A T T G G A G G G G A A G C C G G A A A G A A A G A G G A A C G G A
 G G GAA A G G GCCGGAAGGAAAAGGGGGGAAGGAACCAAGAAAA ACCGGGGAAAAGGGGGGAACCAAGGAAAAGGAAAAAAAAAAA A G G A A A A A A A A A A A A A A G G A A A A G GAA $A \operatorname{GGGGGGAAAAAAGGG}$ G G G G G A A C C A A A A G G G GAA $A \operatorname{GCC} C A A G G A A C C G G A A G G G A A A G$ G G G G GAAAAAAGGGGAAAAGGAAGGGGAAAAAAGGGGCCCCC
$C C C A A A A G G A A A G A G A A G G G G A A A G A A G G G A G A A A G G A G A G G$ G G G A G A A A A G G A GCCA G A A A A G G G G G G G G C C A G G G G G A A G G C C GGCCAGGAGGAGCCGATTAAAACCAAAGGAAA GAAGGAACA GAGAGAGGGAGCCGAGGAAAGAGGGGAGGGAGGAAAAAAAGC CAAAAAGACAGGAAGGGAAAAAAGGCCGGAAGAAAAAGGGGG A G G A G GCGGAACCAAGGGGGGCCAACCGAGGAGGGAGGAAGA G G G G G G G C C G G A A G G A A G G G G A G A A A G GACC $\mathcal{A} A A A A A G G A G A$ GAGCCGGAAGGGGAAAAAGATGGAGAACCGAGGAGAGAAGAA ACCGGGGCCACAACCAAAAAAGGGGAACAAGAGAGGGGAAAA C TACAAAAAACAGAGAACGGAAAAGCCGGAAGGAGAAGGAAC CAAAAAAAGCACCGGGAAGGAGGAAGAGGAAAAACACAAGAA G G G GCAGACAAAGCCGGGAAGGAGAGAGGGGAACCGGCAAAG $A \subset C G G G G A G G G A A C A A A A A C C A G G G A A A G G A G G A A G G G G G G G$ GAACCAACAGAGGGAGAAGGAAAGAAGAAGGCAAAGAAGCCG GCCCCAAAGAAGGGGGGGAAGGAAGAGAAAAACGACCAGAAA A G GAAA A GAAAGGGACCAAATGAGAAAGGAGAGAAGAGGCAG A A GAA A G G G G GAGAACCAAGGAAGGGAAAAGAAAAGGAACAG G G GCCAAGGAAGGGGGGGGCAGGGGAGGGAAAAAGAACAAAA AAGCCGGAAAAGGAAAAAGGGGGAACCGGAGGGAGAAGAAAA GAGAAAGGGAAGAGGAAAAAAGGAACCAAGGGGAAAAAAAGC ACAAGGGCCCCAGAGGAGAAAGACGAGAGAAAGGGGGGAGGA GAGAGAAAAGGGGAAGGGAAAGGGGAAAAAAAAAGGCBACAA $G G A A G C A A G G G A G G A A G A A G G A A G G G A A G A A A A G G G A A C G G G$ A A A C A C A G G G A G A A A G G G A A A A A G G G G G G G G A A A A A A G G C C G GTTTTCCGGAACCAGGGGAGAGGAAGGAAATGGAGGGGGAGA G GAGGGGAGAAAAGGGGAGCCGGAAGAAAGGCCAAGGGAAAG GAGAAGGGGGGGGGGGGGGCGAAGAGAGGACGAAGAAAAGAA GAAGAGGGAGGGGACAGGAAGAAAAAGGGAGAGGGGAGAGGB GAAACGGGGAAAAAAGGAAGGAAGGGGGGAGCCGAGAGGGGA $A G G G G A A G G G G G G A A G G A A G G G G A A G A G G A A G G A A A G A A A A G$ A A A A G A A G G G G G G GACCACAGAGGAGAGGGGAAAAACAGAGC AAGAAAAAGGAGGACCAAAAAGAGGCAAAGAGAGAAAGAAGG GAAACGGGGCCGGAAGGGGGGGGGGAACCGGCAGAGAAGCAA G GAAGGGGGAGCCCCAGAAAAGGGGCAGGGAGGGACCAAGGA CACGGCCACGAAAAAGGAAGGGAGAGAAGGGAAAGGAGGGGA A G G A A A A A GAA $A \operatorname{GCC} G G A A A A G G A G A A A A A G G A A A G G G G C C G$ GACGGGGAAAGGAGCACGAAAAGGGGGAAGGGAGGACGGACG $G C C A G A T A A A A G A C A A C A G A A G A A A A A G G A A A G G G C C A A A G A$ G G G G G G G A A A A A A G G A A A A A C G A A A C CAAGGGAAATTAAAAG A G G C A A G A A G G G G A A A A A A G GAAAAGGGGAAAAGGAACAACC CAAGGCCGAAAAAAGAAGGGGAAAAAAAAGGGAACAAGAAAA A G G G G G G C C A A A A A A A A A A A A G GAAACCAGGC GGGGGGA GAA AAGAGGAAGAGGAACAGAACAAAAGAAAGACAAAAGAGGCAA A A C G A G G G G G G G G G A G GAGCAGAGGGAGACAAGAAGAAA GAA AAAGGAAAAAAGGAAAAAAAAAAGGAAAAGAGGAGGAGAAAA
 AAAGGGGGGCCAAAAAAAAGGAAGGAAAAGGAAAACCGGGGG
 G G GCCGGGGCAAAAAAAGAGGAACGGGAAAAGAAGGAGGGGA A G G G G A G A A G G G G G G G G A C G G A A A GAC GACAAAAAATAACAC CAAAACACCAAGGAAGGGAAAGAAAGGAGGGAAGGGGAGGGG
 GGGAGCCCAGGAAGGGGAAAACCGGAAAAAAAAGAGAAAAAC C A G G G G G G G G A A G G A G G G G A G A A GAGGGAGGAGAAAACAAAA A G G G G A G A GCAAA $A \operatorname{A} A G G A A A G G G G A G G G G G A G G A A G A A A G B A$ A G G A A A A G G A A A A G G A A G G G GAA $A \operatorname{AGGGACAGGGAAAAGAAAA}$ A G G G G A A G A A A A C G G G G G A G A A G A GAA A C CAAAA A G G G G G T T G G G G A A C C A A A A A A C A G G G G C G C A GAAGAA G G CA A GA G A A G G A A G GAAGGGGCCAAGGGGAAAATTGGAAGGAAGAAGGACAGGC

A A A A A GAGGAAAGGGGGCACCGACAAAGAAGACAAGG C C G A A G G G A A A A A A C C G G G G G G G G G GAAAAAAGGAAAAAAAA GGGAGGACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGG A G GAA $\operatorname{A} G \mathrm{G} G A A G G A A A A T T A A A A A G A G A A A G A A G G A A A A A G A$ A A A A A A A A G G G GAGATTAACCAGAGAGAACCCAGGAAGAAAC A G G G G GACAAAAAACAAGGAAAAAAGAAAGGAGAAGGAACAG $A G G C C A G G A A A G G A A G G A A G G G G A A G G G G A G A G G A A A G A A G G$ GAGAGAGAAGCCAACGACAGGAAAGGGAAGGAAGGAAGAGAA GAAAAGGGGGGGGAGACGAAAGGACAGGAAGAGAGGGGAAAG AAAACGAAGGGGAAGACAAGAGAGGCCGGAAAAAAGGAAGAA CAGTAAAGGAAAAAAAACAAGAGGAAGGAAAACAGGAGAAAC AAACCAAACATAGAGAAAGAAGGAACCAAGGAAGGGAGAAGA A A G GACAGGGACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAA A A A A A A A G A A G GAAGAAAAAGGGAGAGCCGGAGAAGGGAAAC CAAGGAAGGGGAAAAAAAAAAAAGGAAGAAGAACAGAAAAAA GAAACGGGAAAAAGACCCCAAAAGGAAAGAAAAAAAGGAAAA
 GAAGAAAGGAACCGGGAAGAGGAAGAGAGAAAAGAAAGAGAG
 A A A G A A G G G A G G G A A G G G A G G G A G A G A G A A G A C A G A G G G A G A G G G G G G GAGGGAAACGGAAAAGGAAAGGGAAAACAGGAAGAG A GAGAAAGAGAACCAAAAAGAAAAAGGGGGGGGGGGGGGGAA $G C \subset A G C G A G G G A A A G G A A A C A T A A A G G G G G G G G A A A C G A A G G$ G G GCA $\operatorname{A}$ GAACGAGAGAGGAACCAACAAGAAGGAGATAAAAAAA AAAGGGAAAGACAAAAAAAAAAAGGAAAAAGAACAGGGACAA A GAGAGGGAGGAGAGAAGGGGAAAAAGGGGGGGGAAACAGGA AAAGGAGGGGGAAAGAACCACCCAGGGGGGAGCAAAAGAAAA A G GACAAA $A \operatorname{A} A A A A G G G A G G A T A C A G A G A A C C C A T A A G A G G G G$ GAGGGAAAAAGGGAGGGGAGGGGGGAGGACACAGAGGGGGGG G GAAGACAGAGAGAGAGAGCCAAAACCGGGGGAGAGGGAAAC C GAAGGGGAAAAAGACCACGGAGGAAGCAAAGAAAAAAAGBA AAAGGAAAAGGGAAAGGAAAGAAACAGAACGAAAAGAAGAGG GAAGGGGGAAGAAAGAAAAGGGGGAGGCCAGAAAAAAAGGGG G GAGGGGGGGAGGCCAAAGAGCACAAAAACAAGAGGAAAGGG GAGAAGGACAAGGAGGGGGGACCACAAGGGGGAGGGGCCCCA A G GAAAAA A A A A A A G G GAAAAAAAGGGGCAAGGAACAGGGGGC $C A C G A C C G C C C A A G G G A G A G G G A G G C A G A A A A A A A A A G A A G A$ GAGCCGAGAGGAAAGGGAACCCCAGGGAACCGGAGGGGGGAA $A C C A A A C A G G G A A G A A A G G G G A A A A A A A A A G G A A G T T C A G A A$
 G G G G G G GAA A G G G G G G GAA $A \operatorname{A} A A A G G C C A A G G G G G G A A G A A A A$ A A A G G G G A A A A G G G G A A A A A A G G A A G A A G A A G G A A G G G G A A A A GAAAGAGAAAAGGGGGGAGGAGGAGACCGGGAGGGGAGGGG G GAGAGCAGGGGGAAGGAAAGAGCCAAAAAGGGGAAAAGGAA G GACCGGAAGACAACCGAGAAGGAAGGGGGGGCGACAAAGGG GAAGGGGAAAAAAGGGACCGAGGAGGGGGACGACGGACAAAC CAAGAGGCCACGAAAAAGGGGCCCCGGCAGGGAGGACAAAGAG G G G G A G A G G A G G G G G G A A A A G G G G A CA $\mathcal{A} G A G A A A G A A G G A G G$ GACAAGGGGCAGGAGAGAAGGAAGGAAGGGGAGGAGACAGAG GAAACGGAAAAGGAAGGCAAAACAAGGAAAAGAAAGAAAAAA A G GAAAACCGGAAGGAAAAACAAAGGGGGAGGGGGGGAAAAAA A G GAG $\operatorname{G} G A A A A T A G C A C G G A C A A G G G G G G G A A A A G A G G G G G G$ GAAGGGACCAGGGGGAAAGGAAGAAAAGGGGAACAGAAGAGA AAAAAGCGGAAAAGGAAGGAAAGAGAGCCCAAAAGGAAAACG G GAGGGAGGCCAAGGGAGAAGGAAGGGGAAGGGAGGAAGAAA A G G G G A A C C G A A G G GAGAGAAAAGGAGACACAAGAGAAGATA GAAAACCAAAGAGAAGGAAGAAGAAGGAAGGCACCGGAAAAA G G G GCGGGGGGAAAAAAGGAAACGAGGAGGGAAAGATAGTTG $A G G A G G G A A G G A A G G G G A G A A G G G A A G A G A A A A G A G A A A G G G$

A GCAGGGGAACGGGGGAGGGGAGAAAGAGAAGGGAGAGAAGA
 AACGGAAAGGGGAAAAAAACCGGGGAACCAAGGGGAGAGAAG GAACCAACCCCAAAAGGGGAGCCCCACGAGGCGCCAAGAGCG A G GAGGACCGGAGGAGAAGGGACCCGGAACCGGGGAAGGCCC C G G G G A A A A G G A A G G G G A A A A G G G G A A G G A A A A C C G G G G A A A A G G G G A A G G G G A A C C G GCC T T G G A A A A C A A GA GAA G G G G G A A AGGCCGGAGGGAAAAAAGGAAAAGGGGGAAGAAGAAACAAGA GAAGGGAAAGGGGCCCCAACCAACAAAAAGGGGGAACAGAGB GAGGGGGGGCCAAGGAGGGGGGGGAGAAGAAGAGAAAAAAAA A A G G G A A A GCCAA G G G A A A G G GAGAGGC CACAA G GCC G G GAA A G G A C G G A A A A GA G G G A A G A A G A G G A A A A A A G G G G GAA G C C G AAAGGGGCCAAACCCAAAAAAAAAAAAACGGGGAAAAGAAAA A G G G G C A G G A T G G G G A G G G G G A A G G A A G G G A G G A A G A C C A A A AAAAACCCCCCGAAGAGGGGGGGCCAAGACCAAGGAAAAGGG G G GAAA A G G G GATGGGGGGAAAAAAAAAACCAAGAACAGCAA A G GA $\mathrm{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} G A C A A C G A G G C A A A C C A A A A A A G G G$ GACCCAAGGAAGAAAAAAAAAAAGAGAAACAAGGAGAGGGGA

 GAAGGGGAAGGGGGGAAAAGGAAGGCCCCGGAAGGGGGGGGG G G GAAGGCCAAAAAAGGCCGGGGAAGGAACCAAAAAAAAAAG GAAGGAAAACAGGGGAAAGCCGAAAGGGAGAAAACAGAAAAG GAATTAGAAGGACGGGGTAGAGGAAGGGAGGGGAAAAAACAA A A G A A A A A C A A A A C C G G G G A A A A C C A A A A G G GA G G G A A G G G A A G G G G A A G A A G A G G A G G A G G G G G A G G A G A A A A G T T A G G G A G G AAGCGGGGGAAAAGGAAGGCCCCAAGAAGGAACGGGGAAAGA $G C \subset A A C C A G G G A A A A A A G G C A G A A A G G T T C C G A C C A C G A A G G$ GAGACCCAGAAAGGGCCGGAAAAAGGAGGGGGGAAGGAAAGG
 A G G G G A A C A C C A A A A G G G G A A A A A A A A C C A A G G A C T T G G G A G AACGGAAAGGGGGGGAGGAAAGGAAGGAAAAGGCCGGGGGGG AAAAAGGAAGGAAGAAGACAGAGGGAGAGGGGGAAACGAGGG
 GAAAGGGAAGGCCGGGGGGAAGAAACCAAAAGGACCAAGAGG G G G A A C A G G G G A G A A A G G G A C G G A A G G G G A A A A G G C A A G G A G A A GAA $A \operatorname{G} G \mathrm{G} G A \operatorname{A} A A A A A G G A G A A G G A G G A G G G A G G A G G A G G A$ G G GAAAAGGAGGGGAAGAAGGAAGAAAAAAGAGGGAAGAAAA G G G G GCCCCGAACAAAAGGAAGGGGAA GGGGGGGGGGGGGGG GAAGGCCGGGGAACCAACCCCAACCAACCGGCCAAAAGAGBA G G GAGAGCCGGAAGGCCGGAAACGGAGAAAGACGATTGGGAC CAGGGAGGAACGGAAGGGGGAGGCAGGCCACCCCAAGGBACC

 GAAGGGGCAGAGAAGAGAGAGGAAGAAGGGGAAAAAGGAGGG G G GAACCGGGGCCAACCGAAGGGAAAAAAGGGGGGGGGAGGA GAAGGAAGGACAGAACAGGAGGGGGGGGGAAGAGGGAAAAAA A G GCACCAGGAGAAGGAAAGGAGAACCGGAAGGGGGGGAAAG G GAAAAAAAGGAAAAAAGGAAGGAAGGGGGGTTCCGGAAAAAA AAAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACCGGC CAAAAAAAAAAGGGGAAAAGGAACCAAAACCGGAAGGAAGGT TAAAAAAAAAAGGAACCGGGGGGGGAAAAGGAAAAGAAAGGA A G G G G G G G G A A A A A A A A A A A A A A A A G G C C A A G GAA G G C C A A A ACCAAAAAATTAAAAAAAAGGAAAAAAGGAAAACCGGGGGGG G G G G G G G A A A A A A G GAAAA A G G GAA $A \operatorname{A} G A A G G G G G G G A A A A A A$ A G G G G C C A A A A G G A A A A G G G G G G A A G G T T G G G G G G A A G G G G G
 GAAAA $A \operatorname{A} A A C C A A C C G G A A A A G G G G A A A A C C G G A A A A G A A A A$ AAAGGAAGGAAGGGGGGAAAAAAGGGGGGAAAAGGGGGAAAG

GAAAAGGGGGGGGGGGGCCGGGGGGGGAAGGAAGAAA
G G G G G G C C G G A A G G G G G G G G G G G G G G A A G G A A A A G G A A A A $G$ GAAAACCGGGGGGGGCCGGGGCCGGGGGGCCAGGAGAAAAGA GAAAACCAATTGGAAAAAAGGGGGGGGGAGGACAAAAGAAGA AAGCCAAAAAAGAAGCCAAATGGAACCGAAGAGAAGGGGGGG GAAGGAAGGGGAAAACCCCGGAAAAAAGGGGGGGGAAAAAAA A G G G G G G G G A A A A A A G G A G G G A A A A A A G GAAA $A \operatorname{AGGGGGAAAA}$ AGGCCCAGGAGAGACGGCAGAACGGGAGGAGGAGGAAAGAAG GAAGGGGAAGAAACCAAGAAACCAAAAAAAAACGGAAGAAAG G G GAAAATTGGAGAGGAAGACAGAAAGAAACAAGGGAAAGGG $G C C A A C G A A G G G G A A G A A A G G A A G G A A G G A G A A G G A A C C G G A$ A G GAAGAAGAACCAACCAAAAAAAAAAAGGAGAAAGAAGGGA A A A G G A A A G GCGGAACCAAGGAAGGGGACAAAAAGGAAAAAG GAAAAGAGGAAAAGGGGGAGGGGGGGGGAAAAGGAGAGAAAG G G G A A G G G G A A G G G A A G G G G G A A G A G G G A C G A A G G G G G G G G G G GAGGAAAAAGAAGGAAGGGGGGAAAAGGAAAGAAGGGAAAA
 A G G G G A A A A G A A G G GAAGGAGGGAAGGCCGGAAGGGAAAAGA GAGCAGGGGGACAGGATAAGGCAGGAAAAAAAAGGAAGAGAA A G G A G G A C A G G G G A A G G A A A G A G A A G G C C A A G G G G G G G G C C A A G G G G G G G GAGAGAAGGAAAAGGAAGAAAAACCAAAGAAAGG
 AAAGGCCGGGAGGGAGAGAAAGAAGGACCGGAGAACCCAA GA
 A G G G GCC G G A G GAGGAAGGTAAAGGGAAGAACCGGGAAAAAG A A GAGAGGAGGAAAAAAAAAGGGAAGGGGAAAAAAAAAAGGA A G GAAAAGGGGCCCAGAGGAAGGGAAAAAAAGGAAGGAAAAG G G G A A A A A A G G A G G G G A CAGGAGAACCGGGGAAAAGGCAAAA AAAAAGGAACCGGAAGGTTAACCAAAAGGGGGGAAAAGGCCA AAACCGGAAAAGGGGAAAAGGAAGGGGGGAAGGAAGGGGGGG G A A A A G G C C A A A A G G A A G G A A G G G G G G A A C C G G G G A A G G A A G G G GAAAAAAGGGGGGGAGGGGCCAAAAAAAAGAAGACAAAC T TGCAGGACCCCCCGGAAGGAAAGAAGGGGAAGAGGAGAGCCC C A G G G A A A G A A A G G A G G G G G G A A G A C C A A A A A A A A G A G A T T A $G C A A A A G A A G G A G A G A G G G A G A A A A A A A G G G A A C A G G A G G A T$ A G GA $\operatorname{G} A A C A A G G G G G A A A A C C C G A C A A A A A A A A A A G G C C A G G$ GAACCAGGAGGAAGGAGAGGGGGGGGGAAGGGGGAAACAGGG AAAGAGGGAACCCAGGCAGATGAGGAAAAAAACGGAAAACCA
 GAAAAGGAACCGACCGGACAAGGGGAGAAGGGGAAGAATGGC CAAGGAAAGCCTTCCGGCCAAAGAGAGGGAAGGGAGAAGAGA G G G A A A A A GCCAA G GAAGAACAGAGGGGGCAAAAAGAAGAAG GCAGGGGAAAAAGCCGAGGGGGGAGGAAAAACCGGAACAGGC CAAGGAAGGCCAAAAAGAGAAAACCCCAAAGGGGGAAGAAAA
 A A A A G G G A A A A A G G GAACAA A G GAGCCGAGGAAGA GAAGCCC GCCAGGGAGCCGGGAGGGACCGACAGGAAGACCAAGAAAGGG ACAAAAAGAAAGGAAAAGAGGAACCGGGGAGAAAAAGGAAAC AAGGGAGGAGACCGCAAGGAACCAAAAAAAAAAAAACGGGGG GAAGGGGAAAAAGCCAAGGGGTAACAGACAAGAAAGGGAAAG GAAGGGAAAAAGGGGAGCCGAAACACAATGCGAGAACGAAGG A A GACAAAAAAGGAAGGAGGGGGGGCCGGGGAAGGAGCAAAA $A G G C C G G G G C C G G A G A A C A A A G A A A G G G G G A A G G A T T G A A G G$ AACGATTGGAAACGAAAGGGGAAGAGGGGGAGGCAAGAGAGG G GAAGGAAGAAAACCGGAGAAAAGGGAGAAGAAAGAACAAAA A GAGAGAGGCAAGGGGGAAGGGAGAGGAGCCAAAGGGCAAAA
 $G G A A G G G G G A A A G A G A G G G A A G A A A C C A A A G A A G G A A G A C C A$ $C G A G A G A G A A A G G G G G A A A C C A G A A A A A A G G A A G G A A C A A C G$

A GAGAAAGGAAGGGGAAAAAACCAAGGGGAAGAGGCCAAGGG G G G G GCC G G G G G G A A A A A A G GCC G G G G G G G GAAA A A C A A G G A AACGAGAGGAACCGGGGAACAGGGAAGAGAGAGGGAAAAAAG A GACCAGGGAACAAAAAAAGAGAAAGGGGACGGGGCCCCCCG A A G G G A A A A G G G G G G G G GAAAA A G G CA G GATCC G G G G C C G G A $A G G G A A G A G G G A A G G A A G G G G A A A G G A G A A A G G A A G G A G G B A$ A GACAGGGGAAGGGGCAAAAAGGCATAAAAAGAGGGGGGGGA G G GAAAAAAGGAACCGAGGAAGGAGGGCCAAGGCCGGGAAAA G G A G A A A A A A A A A CAAA A A G GAAACAC GAGGAAAAAG GAAAA AGGAAAGAAGGAAAAGAGGAAAAACCCCCGGACGGCCGAAAG G GAGGGGAAAAGAAAAAAGGGAGAAGGAAGGGGAGAGAAGAG G G G G G A A G G G G A A C CAAAGGAGACCAGGAGGAAAGAAAAA G G GAGGGAGACTTGGGGAGAAAGGAAAGGCAAAACGGAAAAGAA AAAAAAGGGAAAGGAAAAAAAAACAAGCCGGGGAAAAGAGAA C GAGGGGCCGAGGAGGGAAAACCGGCCGGGGGGGAAAAAAAC $C \subset C G G G G G G A G G A A G G G A A G G A A A A G G A A C C G G G G C C A G C A G$ AGACCCACCAGAAAAGAAGAGAAGACAAAAAAGCCGAAAAAA GAGGAAGAAAACGGGGGAGAAAAGGAGGGAGCCAAGAACAAG AAAGGAAAAAGAAAAGGAAAGAAAAAAAAGGGGGGCCGAAGG GAAGGAAAAAAAGAGGGAACCAGGGAAGGGGAAAAAAGAAAA GAGCCGAAAGGCCAGAGAAGAAGGGAAAAAGAAAACAAAGGG G GAACAGAGAGGAAAGGAGGAGAAAAAAACACAAGAAAAGBA A A A A A A A A GACAAAACCGGAAAAGGCCAGAAAGACAAGAGAA A GCGGCCAGAAAGAAAGGGGGGGAAGAGGGGAGCCAAGGGGC C GAAACCAAGAGAACCAAGAGAAAACAAGGAAGCCCCGGGGA G G G A A G GAAAGGGAAGGAAACGGAAAGATAAGGACGGAAAAC C GAGAAAGGGAGAGGAAGGAGAAAAAACCAGAGCAGGCAACC G G A C C G G A A C C G G T T T T G GTTCCA GAAAGAAACCCAA G G C C C C G GCCGAAAGGAAAAAGCCGAGAGGAGAGCCAAAAGGAAGGG G G GAAAAAGAAAAGGGGGGGGAAAGGGAAACGGAAGGCAAAG GAAGGAGACACCAGGAAGGAAGGGAGCAAAAAGAACCAGGGG AAAAGGAGGAGAAAGGGAACAAAAAGGGGGAAAGAGAAAGGG GAGAAAAAAGGGGAAAACCCCGGAAGAACGAAAACGBAAAGG G G G G GCC G G G G A G A A G G A A A A A A G GAA $\mathcal{A} G A C G G A A G G C C G G G$ A G A A G A A $\mathcal{A} G G G G G G A G G A A G G G A G G A A A A G G A A G G A A A G A G G$ $G C C G G C C G A A A A A A G G G G A A G A A G G G G A G C C G G A A A G A C A A G$ G G G GAAAGAAGAAAAAACAAAGGAGAAGGAGAAAAGAAAAGA G G G GAA A A GAGCAGGGGAAAAGGGGGGCCGGCCAAAAGAGGG A A A A A G A A A A T G GCCGGCCGGAAAAGGGAAAA GAAA GGGCCG GAAGAGGGAAGCCAAAACCAGTAAGAAGAAGAGGGGGGAAAG G G G G G A A A GA G A A G GA $A$ A A A GGGAGAGGAAAAGGAGAGGAAAA A G G G A G C A A C C A A G G A A G G A A A G G G G A G G G A G G A G G G A A G G A GATAAGGCAGGAAGGAAAGGGAGAAGACAGGGGAACCGAAGA GAAAAAAACCCGGCCAGAGGAAAGGAGGGAGGACCGGAGAAG G G A A A A $\mathcal{A} G G G G G G G A G G A G A G G G G G A G G G A G A G G A C C G A G A G$ G G GCCCCAGGGGAGAACGGCCGAAAAGCCGGGAGGAAGGGGG GAAAAGGAAAAGGGGGGGGAACCGGGGAAGGAAGGAAAAGGG G G G A A A A A A G G G G G G A A A A A A A A A A G G G G G GAAAAAAAA A $A$ A $G$ G G G G GCCAAAAGGGGAAAAAAAAGGGGAACCGGAAAACAAAG G G G A A A A A A A A C C G GAA A G G G G G G G C CAAAACCGGAAAAAAA A G G G G G G A A G G A A A A G G G G G G A A A A G G A A G G G G A A A A A A G G C C T T G GAAAAAGAAGAGGAAGGGGAAAGGGAGAGGGAACAAAA G G G A A G G A C C C GACCAAGGCCGGGGGGCAAGAAGGGAACAGAG ACAGAGAGAAAGGAGAACCAGGAAGGGGGGGGAGGAAAGAAG GAAGAACAGGAACAGAAGGAAAAAAAAAAAGAGCAAGGGGGG A G G G GCCAAAAAAAAAAAAGGAAAGGAGGAAAGGGCCAGGGG GAAGGGAAAAAGAGGAAGGAAGGAAGGCCGGGGAAGACAAAG G G G GACCAAGGGGGGCAAGAAACAAAGGAGGAAGGAAGGGGA A GAGAAAAAAGGGAGAAGGGGAGAGAGGAGGAGAGAAAAAAC

A A G GAGAGAAAGGAGGAGGCAAAGGAACCCCACGAAG GGCCGGGGAAAAGGAAAAAAGAAAGGCAGGGGAAGGGACAC GAAAGCCGGCCGGAGAAGGAAGAGGGAAAAACCGGAGCAGGG AGGAAGGCCAGAGAGGGGGGGCGAAAACCGAAAGGAAGAAAA A G GAAAACCGGAGAAAGCCAAAAGAAGAACCGGGAAAAGCCA TCCAAGAAAGAGGGGGGCCAAGAAGAGGGCGGGCAGACAACC C G GAA $A \operatorname{GA} A A A C C G A A G A A A G A A A G C C G G A A A A G A A C G A A G A$ $G G A A A G A G A A A G G G G G G C C A A G G G G G G G G A A G G G G G A A A G G G$
 AAAAAAAAAGGGGTTAAGGAAAAGGAAAAAAAAGGGGGGAAG GCCAAAAAATTGGCCGGCCGGAAGGAAAAAAGGGGGGGAAAA A G G G G G GAAAAGGGGGGAAGGCCAAAAAAAAGGAAGGAACAA
 GGGAACCCCAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAA AGGAAAAGGAACCGGGGAAAAAAGGGGAAGGGGAACAGAAAA A G GAAAAAATTAAAAGGGGAAGGAAGGGGAAGGGGGGCAAAG GAAAAGGGGGGGGGGAAGGCCAAAAAAAAAAAGAAGCBAGAA GAACCGGGGAAGGGGGGGAAGAGAAAAAAAAGAACAAGAGBA $G G A A G G G G A G A G A A G A G G G A C A A G G A G G G C A C A A G A A A G G A G$ C GAGGAGAGGGAAAAGAGGAAGAAAGGGCAAAGAAAAGAAAA CAAAAAAAAGGGAGGCCCAAGACGGGGGAAAAGAAGGCCGGA $C G G C A C C C C A A A A G G G G A G A A G A G G G G A A G G T A G G A A G G A A G$ G G G G G G G A A A A A A G GAAGGCCCCGGAGGGAGGGAAAAAAGAC CAAAAGAGAGGAAGGAAAAGGAGGAGGGGGGAAAAGAAAAAA $G C A A G A G G G C A G G G G G G A A G G G G A G C A G G A A G G A A G G G G G G G$ GGGACGAGGAGAACCAAGGAGCAGGGGGAAAAGAGGGGGACA
 A GAA A G GAAAGGAGAGGAGAGGGGGAAAACCCCAAGGACAGA A G GAA $A \operatorname{GAAAAACCCAAGAAAGCAGGAAGAGACAGAAGGGGGG}$ GGAGGAACCAGCAGGAGGAAAACGGAAAAGAGGCCGGCCCCB A A GAA A C G GAA $A \operatorname{G} G \mathrm{G}$ GAAAAAAGGGGCCCCAAAAGGGGGATAC CAACCGGCCAGAGAGGGAAAAGGCCAAAGAAGGACAACGGAC $C \subset C G G G G A C G A G G A G G G G G A G C C G G A G G G A G G A A G A G A A A A G$
 A G G G GAAAAAAGGGGCCGGGGACAGGGAGCAAGCAAGACCAA G G GAA A GCCAGGAGGAAGGGGGAGGCCCCAAAAAAGGAAGAA GACAGACGGGAAAAGGGGGGGGGGGAAAGGAGGGGGGAGCAC CAAGGAAGGAGAGACCAAGAACCGCGAAGAAAGGAGGAGGGC $A C C A G A A A G G G A G A A G G A G A G C A A G G G G G A A G G C C G G G G G G G$ $G C C A A A A G G G G G G G G G G A A G G A A A A G G G G C C A A G G A A G A A A A$ A A A A A A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G A A G G G G A A A A A A A A A$ A G G G G G GCCCCCC G G G GCC G G G G G G A A G G G G G G G G G G A A G G G GAACCAACCCCGGGGAAGGGGAAGGAAGGGGGGGGAAGGGGG G G GAA A GCCAAAAGGGGTTGGAAAAAACCGGAAGGGGAAAAG GAA A G G G G GAA $A \operatorname{A} A A A G G A A A A A A A A G G G G G G G G G G C A A A G A A$ A G G A A G G A A A A G G G G G G A A G G C C G G G G A A G G G G G G G G A A G G A AAAGGGGAAAAAAGGGGAAGGGGAAAAGGAAGGGGCCAAGAA AAAGGAAGGGGCCGGAAAAAAGGGGGGGGAAAAAAAAGAAAC CAAGGGGGGAAGGCCAACCGGAAGGAAGGTTAAAAGGGGGGA A G G G GAAGACCGGAAAAAAAAGGAAAAGGAAAAAAGGAAGAA AAAAAGGAAGGAAGGCCGGAAAAGGAAAAAGAAAGAGAAAAG G G C G G G G A C G A G G G G G G G G G G G A GAC CA A G GAA A GAAAA A G A A A A G G A G G A G A A CAACAGGGGCCGGGGGAATAAAAACAAGEG A GAGGACGGCCGAAGAAAACCGGGGGGGAGGGAAAGGGAAAG GCCAAGACCAAGGGGAGGAGAGACAAGGAAAAAGAAGGCACC CAACCAAAAAAGGGAAAAAGGGGGGCCCCCCAAGGAAGAAAG GAACCGGAAAACCGGGGGGAACCAAGGAAAACCGGAAAAGGG G G G A A G G G G G G A A G GC C G G A A A A A A A A A A A A C C G G G G G G C C G $G G G A A C A A G G G G G A G A G G G G A A G A A A A A G C C A G A A G G A C G G A$

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 G G A A A G G A A G G G G A A A A A G G G A A A A G GAGGGGGGGAC G G G A G

 GAGAGAAGCACAAGGGGAGAAAAGGAAGGGAGGGAAGGAGAA GAAGGCAGGAGGGGACAGGAGCCCAGAAGCCCCAACCAAAAA A A GAAA $A \operatorname{GAAAAGAAAAAGGCCGGAAGAAAAAGGAAAAGGGAC}$ AAAACCCGGCCAAGACAAAAAGAAAAAAAGGGGGGGGTTGGG GAAGGAACCGGGGGGAAGGAACCGGGGGGAAGGAAAAGGCCB G G GAAAAAAAGGGAACAAGAGAACCAAGGAACCAAAAGGCAC

A A GAGACAAAGAAAGGAAGACAGAGAAGGGGAAAGGA
CAGGGAAGGGAGCCCAAAGACCGAGGAGAGGAAAGGGGGAG GGGACGGCCCAACGGAGACACACGGGAGGGAAAAGAACAAAA $A G G G A G G A G G A G A G A G G G G C C G G T T A G G G G A G G G G A G G G A C G$ GAGGGTTGGAAAAAAAAAGAAAAGAGCGGCAGGGGAAGAGAA A G G G G G G A G T T G G G G G G A A A A A G G A G G G G G G G G G G A A A A A A A GAAGGCCGGAGGAAAAAGGTTGGAGGGCCAGCCAGCAAGGGG GAAAACCAAAAAACAAAAAGGGGAGGAAGAGGGAAGAAGAAA A A A G G G G A A A A G G A G G G G G G G G G G G A A A A A A A A A G C C A A A G G GAAGGAAAAGGGGAAAAAAGGGGAGACGGGGGAAAAAAAGAA AAAGAGAACAGGAAAGGAGAAAAGGAAGGGAAACCAAGAGAA G G G A A GCGGGGCCGGGGGGAAAAGGGAAAGGGAAAGGGAAGA G A A A A T TAAG $A$ GAAAAAATTAAGGAGGGGGAGGAAAAAA GAAG GTTCCGGAAGAGGGACCGGCAACGGAGGACAGGAGGGAACAA GAAGGGAGGAAAGGAAGAAAAGGCCAGAAGGAAGAGAAGACA GAAGGAAGGAAAAAAAAAGGAGGGAGGGGAAGAAA GAAATTG GAAAGACGAAGAGAAGGCCAGAAGAAAAAAAATAAAGAAGEG A G G A C G G G G G G G G A A A G A G A A A A G G G G G G G GA G A C A A G A G G A $A C C G G G G G G A A C C G G G G G G A G A G G G G G A G C A G A G G G G G A C A A$ TCGGAACGAAAACAAGAGAGGAGAGGAAGCCCCGBAAAGGAA A ACAAAGGAGGAGAAGGCCAGCAAGGGGACGGGCCAAGGCCG GCCCCAGAGGGAAAAGGAAGAACGAAGAAGGGGGGGGAAACA GAAAACCGAGGAGCAGACCCACCTTCCGAAAGAGAAGCAAAA GAACGAGAAAAGGCCAAACGGAGAAAGCCCCCAGAGGGAAAC
 GAAGGGGGGGGGAACAACCAAAGTTGAAGAGAAAAAAGACCA A G GAAAAAGAGCCACAGGGCAAAAAGGAAGGGGGGAACACAA CAACAGGGGGGAGAGGAGGAAAAACAGAGGGAGAGGGAAGAA A GAGAAAAAAAGGGGGGAAAAACCAAGGGAGGGAAAAAGAA AAAGGAACCGGGAAGAAAGGACGAAAAGGGAGAAAAAAAAAC A G A G A G A A A T T C A A A G A A A G A C A A A A A G G G G G G A A A A A A G G A G GAAAAGGGAAAAAGGGAAGAAAAACCGGGCAAACAAAAGGA GAAGAAGGGCAATGAAGAAAAAAGGGGACAAGGGGGGAGCAA A A A G G A A A A A ACCAAAAAAAAGGAAAAGGAAAACGAAGGGGG A GAGAAGCCAAGGAAAAGAAACCCCAAGGAAAAGGGGAAAAG A G G G G GA G GAAAAAAAAAGGCACCAAAAAACCGAGGGGGGGGG $A C C G G G G A G C C G G A G A A G A G G G A G A A G A A A A C C A A C A A A G G G$ G G GAGGGCCAGAGGGAGGCGGAGAAAAGAAGGAGAAGAACAG
 A G G A G A A G A G G G G G G A G A A GAGGGGAAGGCCCCCAAGGAGAA A G G G G G GAACCAAAAGATAAAAAGAGACCGGCCCAAAGGAAA A GAGACAGAAGAAAGGACACCGGAGAGAAAGAGGGAAAAGAG AGGAGGGCCAGAGAGAAAGAGGGGAGGGGAAAAACAAAGAGG A A A A A A A A A G GCAA A G G GAGCCGGAAGAAAAAGAA GAGAGGAA A GAGAGGGGACGGGGAGAAAAAGAAAACCAAGGGGGAAAAGG
 GGGCCCCGGAGCCGGAAAAAAAAAAGAAAAAGACCGACACAG AGGAAGAAGGAAGAGAGCCGGCCAAAAGGAAGAAAAAAGAAG A A A A ACC C G G GATAGAGAAGGCCGGGGAAGGCCAAAAGAAAA G G G G G A A G GCC G A G A G GAGAGCACCGGCCGGAGAAGGAAGAA A A A A G A A A GAAAAGGCCAGAGAGACGAGGCAAACCAAGAAGG CAGGGGGAGGGAAAAGAAAGAAGAGACAAAAAAAACCABAGG AAAGGAGAGGGAAAAGCAGGGAAGGAACCACGAAACAGAAGG GCCGGAAGGAAGGGGCCGGGGAAAAAAAAAAAAGGGAAAGGA A G GAAGGAAGAAAGGAGAGACCCGGGACCAGGACCAAGAAAA AAAAGCCGGTTGAAAGGAAAACCCCAACCGGAAGGAACAAGAA G G G A A A A G A A G A G A C A $\mathcal{A} G G G G G G G G G G A A A G G G A A A G A A G G G$ $G G G A A A A G G G G A A C G A A G G C C G G A A G G A A A A G G G G A A A A C A A$ $A G G G G C A G A G G G A A A A A G G A A G G A A A A A G G A A G G G G A G A G G G$

GAAGGGGAAAAGGGGAAAAAAGGGGAAAAGGAAGGGGGGGGG G G A A A A A G G GA A GAAGGCCGCAAGGAAGGACGAAAAAAACBG C GAGAGGAAAAAAGGCCGGGGACGGGAGGAAAGACGAGACCA C G GAGAGCAAGAAGGAGGGAAGGCCCCGAAGAGAAGAAAAAG G G GAAGGAAAGCCAAAAAACCAAGAGGAGGGGGCAGAACAAA C GAAAGGAGAAAAAAAGGAGGAAGACAAGAGAGGAACAAAAG GAAAGGAGAAAAAAAAAGGAGAAAAGCCCGGAAGAAGAAAAA GAAAAGGAAGGGGAAAGAGGAGGGAGAGAGGAGCAAAGAAAG G G G A A G G A A C C A A G CA G GAGAGACCGGAAAAAA G GA G G G C C C G ACAGGAAAAAAGGAAAGAGGGAGAGCCAGAAAAGGGGACGAC CAGAACCAAGAGGGGAGGGGGGGGAAAACCCCACAGGGGCCG G G GA $\operatorname{GCA} \mathrm{C}$ G GAACCAAGGGACGCAGAGGGGAACCAAAAGGGGA A G G A A G G A A A A C C C C A A G G G G G G G G G G A A G G G G G G A A A A G G C C G GAA A G G G G GAA $A \operatorname{GGGGAAAAAAAAGAGAAAGAGAAGAAGAG}$ AGGGGAACCAACCAGCACAGGGGCAAGAGGGAAGAGGCCGAC C G GAA G GAA $\operatorname{A} A A A C A A A A A A A G A A A A A G G A A A C A A A G A A G G C$ GAAGGAAAGAGACGAAGGGAGAAGGGGGGGGGGGGCAGAAAA A A A CACCGGGCGGGAGGAAGAGGCCAGTTAAAAAAGGCAAAA GGGGGGGCCGAGGAAAAAAAACAGGAAAGGGAGGGAAAAGGC C GAAACCGGCCAAGGACGAGGAAGGAAAAAGAAAAGAAGGAG G G G G GAGCAAGAACCCCGGGGGCAAGGGGAGGGCCGGAAGAA A G GAAAAAGACAGAAAAAAAAGGGGAGAGACAGAGAAAAAAA AAAAAGAGAAAGGAACCAGAGGGAGACCCAGGAAAAAAGAAA A A A G G G G G A A $\mathcal{A} G G A A A G G G G A A A A G A A G G G A G G G G C C A A A A A$ AAAGGGGCCAACCAGAAGGAAAGGAGGGGGGAAGGGGGAAGA A GAGAGGCCGGAAAGAAAAGAAAGGGGGGAACCAATTGGGGC CAAAAGGAAGGAACCGGAAGGGGAACCAACCGGGGGGCCGGG G A A A A A A A ACCCCAAAAAAAAGGCCGGAAGGCCCCCCCCGGA AAAAAGGAACCAAAAAGGGGAAAAAAGAAGGAACCAGGAAGA AAAAAAAGGGGGGAAAAAAGGCCCCGGAAAAAGCCAAAAAAA C G A A A T T A A A A A C G G G G G A A A G A A A G G A A G G C C G G G G A A T A C AAAGGGGGGCAAGAGAAACGGTACCAAAAGGGAGAGAGGAGA G G G G GAGGAAAGAGGCCAGAGACCCAGGAGGCAGAAAAGAGA ATTAGAGCAGAAGAAGGGGGAAGAGAAGGGAAACAGAAAGGG GA $A$ A $C A G G G A A A G A A G G G A G A G G G A G G A G A G G A G C B A G G G G A$ A A G G G C A G GAAAAAACCGGAAGGAGGAAAAGATGGGGGAAGAA AGACAGGGAAGAAGGGGAGCCAAGGGGGGCCCCCAGAAAAAA A GAAATACCAAAAACAAAAGGGGGGAAGGCCAGAGGGAACAG GAACCCCCCAGGAGAGAACAGAAGAAAGGAAGGGGAAAAAAA GC GAA G GACAACCAGAAGGGAAGAAAAGAAAAAAAGACAABA A G G GAGGGAGAAGGGCCGGGGAAAACCGGGAAGGGAGGAGGC C G A A A G G A A A G G G G GAA A G GAAAAA A G A A A G GAACC G G A A A A A $A C C A A G G G G A A A A A A A A A A C C G G A A A A A A C C G G C C G G G G G G G$
 GAAGGAAGGAAGGCCGGAAGGGGAGGAAAGAGGAAAAGACCA
 A G G G G C A G G G G A A A GACAGCAGGGAAGGAACGAGGAAAAAAA AA GACAGGAAGACAGAGAGAAAAGAGGAAAAGAAGGGGAAGA $A C C G G C A A A G G A A A A G G G G A A G G G G A A A C G A G G A A A A G G G G A$ A G G A A GA $\operatorname{A} G A G G G A G A G G A G A A G G G A A A A C C G G A A G G A A G B A$ GAA A A GAGAAAGGAGGGAAGGAAGAGAGGGGAAGGGGAGACC A G GAA A G G GAACCCAAGGAAGGGGGGGGGAGGAAAAAAG GTXA G A A G G A A G G G G C C A G A G G G C C A G A A A A G G A A A A A G A G A G G G G GGAAAAACCCCAGAGGGGGCAAACCAAAAGGAAAGGGGGGGG GAAAAAGGAAAGGCCAAAAGAGAACCCGGGAGAACAGCAGBA A G G A A G G A A A A G G A A A A $\mathcal{A} A G G G G G G G G A C G A A A A A G A A A G G G$ G G G A G G G G A C C G A A GAC $\mathcal{A} G G G G G A C A G G A A C A G G G A A A G A G G$
 AA G G G GAATAGGAAAAGGAAGGGCCCAGAAAAAAAGGGGGGG

GAAAAAAGGAGGGAGGGAAGACAAGAAAAAAGGGGCC
AGCCAAAGAGGAAACCAAGAAAGGAAGGGAAAACAAGAGCA $A C C A A C C A A A A G G G G A A A A C C G G G G G G T A A A A A G A A A G G A G A$ A A G GAAAAAGGCCGGGGAACCAAGGAAAAGGGAGAGGCAAAG GACAAAGAAGGCCGACCAAGGGAGGGAGAGAGAAAGAAAAAG A A G GAGAGACAGGAAAGGAGGAAAAGGAGCCAAGGAAAAAAA A A A A A A A A A A G GACCGGAAGAAGCCAGAAACGGGGGGGAABAA
 G GAGGCCAAGAGAAGGAGAAAAGAAAAAAAGGGGGGACAAAA AAAGGGAAAGGAACGAGGAGAGGAAGACAAAAGAGGAGGCCC A G G A G A G G G G G A A G GAAAGGGACGAGAAGAAAACCAACAGGC AAAGGGAGGAGGGGGAGCAAAAAAGGGCAGAAAGGAACAAAA GAAGGGGGGGAGAGGAGGAAAGGGAGAGACAACAAGAACGGC CAAAA $A \operatorname{AAAAAAGGGGAGAGACGAAGCAGGGGAGGGAAGGGGG}$ A G GAGAGAGAAGGGAACCCGGAGAAGAGGAGAAAGAGGGCCA AA $A G G G A A A G G G G G G A A C C G G A G A G G G A G A A G G C C G A A A G A G$ A A A A A GAGGAGGAGCAGGGAAGGGGAACCGGGGGAAGAGABA A G G A A A A C CAACACAGGGGGGGGTAGAGGGGAAAAGGGAGAA AAAGGAAGGGGAGGAGGGAAGGAAGGAGAACGACCGGGAAAA
 A A A G G G GAAAAGGGGAACCAAGGGGGGGGGGAAGGGAAAGAA
 $A \subset C A C A G G G A G A G A G A G A A G G C A G G G G G G C C G G G G A G G A A A A$ A G G A G G G G G G G G G A A G A A A $\mathcal{A} G G G A A C A A G A G G G A A A A A A G G G$ GA $\operatorname{G} A A A A A A A G G G G G G C A G A A C C C A A G G G G G G A A C C G A A C G G G$ G G G GACCCCCAAAGAAGAACAGGACGAGAAGGGGAAAGAAGG $G C C G A G G A G A G A A C C G G C A G A A C G A G G A C A A A A A A A G G G T T G$ G G G G A G G C C G G A GCCCC G GAAAA A G A A A A A A A G G GAC C G G G G G G G GACAAGGAGGAAGGAGGAAGAGAAAACGAAAGAAGAAGGG GAAGAAGACGAAAGGGAAGGGGGGGAACCGGAACCBAAAAGG G G G A A G G A C G A G G G A G G G G A A G G A G GAC C GAGGGGGGAAAAA G G G GACCACAGGGAACCGGGGGGGGAAGAACGACCAGAAAAAA A GAAACCCCAGACCCGGGGAAGGGGGGCCAGACAAAAGGAGC C GAAC $\mathrm{C} A \mathrm{~A}$ GAGGAAACCGGGGACGGAAGACCGGAAGACAACC
 A A G G A A GAGAAGGGGGGTTAGGGGGAAGGAAGGGAGGAAAAG G G G G GAAAAGGAAAAGGCCGGGGAACCAACCGGGGGGGAGAG $G C C A G G G G A A A G G G G A G G G A A A A A A G G G G G G A A C A A A A G A A G$ GAACAGGGGAGACGGGGAAAGGGTTAGCCGGGACCGAGGGGA A G G G G A A A A $\mathcal{A} G G G G G G A A G G G G A A G G A C A G G G A G B A G A G A C G$ AGGGGGGGGAAAGCACCAAAAAGGCCAAGAGCCAAACAAAGC C GAGGAAAGCCAAGAACGAGGAAAAGGGGGAGGGGGAGGGGG $G C C A T A G A A G G A A A A A A A G A A A A G G C C A A G G A A A A C A A A C A G$ G G GAC G G A GAAAAAAGAGGGACAGAGAAAGGGGGGGAAAAAG GAAAAAAAGAAGAAGAAAGGGAACCAAGGAAAGAAAAGAGAA AGGAACCCCCCGGAAACACAGAGAGAAGGAGAGGGGAAAAAA AACGGAAAGAAAAAGAAAAAACCGGAAGGAAAGGGGAAAAAA GAGAGGGGAGGGAAGAGCCGGAAAGGGGAAAAAGAGAAAGAA GAGAAGGGGAAGAACGAGGAAGGGGGAGGGGAGGGACAAAGA C CAGGAAAGGGAAAAAGAGAAAAGGGGGAAGGAAACCABAAA A A A A GCAAAAAAAGGCCGGGAAGGGGGAAAGAAGAAGTAAAA
 G G GCCGGAAGGAAGAGAAAGGGGGGAACAAAGGAGAAGAAAG A A A G G G GAGAGGGCCAAAAAAGGAAAAAAAAAAGAGAGGGGG G G G A A A A A A G G A A A A G G A G G G G G C C G G G G A A G G GAC C A G G G A $A \subset C G G G G A A C A G A G A G G G G G G A A A G A G G G G G G A G A G A A A C A A$ A G G G G G G G G C C G G G A G A A A G G A A GAA A A A G G G G G G G G C C A A A A G G G G A A A A A A GA $\operatorname{A}$ G G GAGGAGGAAAAC GAGAGGGGAAGACAC A G GAGGGAGGAAAAAGGCCAGCAGGAAGAAGCCGGACGGGGG

G G GCGGGCCAGAGAAGGGGGAGGAAGGAAGGGGAAGAAAGAA A A A G G G G A G G G G G A G C A A G A G G G A G G G G G A G G G G G G G A A $\mathcal{A} A G$ G G G GACA A A CACAA $A \operatorname{A} A A A G G G A A G G A A G G A G C C A A G G G G G G G$ G G GAAAACCAAGGAAGAAGGAGGACGGAAGGAAGAAAGAAGA G GAAAAAAAGGGGAGGGGGAGGAGATACCCAGAAAAAAAGBA GAGGAAGGGGGGGGAGACCCCAAAAAAAAAAAAGGCCAACCB A G A A A A G A A G G A G G G C C G G G G G G A A G G G G G G G G G G A A A A G G G GAAGGCCCCAAAATTGGAAGGCCAAAAAAAAGGAAAAAAAAA A A A A A G G G G A A G G G G C C C C G G A A A C G G A A A A A A G G A A A G A A A G GAGAGGGGCCGGAAGGCCGGCCGGCAAAGAGAAAAAAAGGC CAA $A \operatorname{GA} A \mathrm{~A} A A \operatorname{A} A C A A A A A A G G C C A A A A G G A G G A A G G A G G G G G$ A A A A G G G C C A G A A G GA $A \operatorname{GGGGGGGGGAAGGCCGAAGAGCAAAA}$ GAAGGGGAGGGCAAGACAGGAAGAGACGGGGGGGGACCAACA CAAAGCCAAACGAGAGAGGCACAAAAAAAGGGGAGCAA GGGG GCCGGACGGAAAAAAGGAAGGACAGGAGGAAAACCGAAAGGC CAAGGAAAGGAACGGCCAACAGAGACAGAGGAAAGAAGAAGA GCAGAGACAACGGAGCCGGGGAAAAAAGGGGGGGGAGAAAAA A A G G G G G G GAGAACAAAGAAGCCGAGGAGGGAAAAAGAAA GA AA $A G G A A G A C A A G G G G G G A A G A A A G G G G G G A C C G A A A C C G G T$ TACA C G G T A G A G G A A G A G G G G G G A G G G A A A A A A G A C A G A A G G G G G G G T TACGGAAGGAAGGGAACCCAAGGGGAGGGAGAACCC C G G GAAAACGACCAAGGAGAAGAAGATACGAAGAAGGCAAAA $G C A A A A A A C G G A G G G C C G G G G A A A A C A G G G G A G G G A G A G G G C$ A GACCGGACGGAAGGGGACAAGGAAGGCAACAGAACAGAAAG
 GAAGGAGAGAGAGGAGGGAAAGGGAAAAAAAAAAAAAGEGGA A G G GAGAGAGGGGGGAAAGCCAAAGGGAAAAGAGGAGAAACAC CAGCAGGAAAAGGAGGGAAAAGGAAGGAAAAAAAGAGGAAGA C G G A A G A A GA A G G A G G A A G G G C G G G G G G A T TA G G G A A C C G A A A G G G A A A A A A A G G T A A C A A G G G G G G G A G G G GAAAAAC C G G G G A CA GAGGGATCAAAAAGGGGCCAAACCAAGAAAAAAGBACAAA ATTGAAAGGGGAAAAACGGACGAAAGGGGAGAGAGAGAAAAG AAA A G G G G G G GAAAAAAAAGGAAGACACAAGAAGAAAGGGGG A A GCC G G G GCC G G G G G A A A GAG GAACCGGAAGGGGAAG G GAA

 G GAAAAGGGAAGGGAAGAAGGGGGAGGGGAAGGGACCGGGGA G G GAA $A \operatorname{GCA} A A A A G A G A A G G G A A G G C C A G A A A A C C G G G A G G A$ A G G G G G G G GAGGACAAAAAGGAGGGAGAGAAGGCCAGAAAAG GAAGGCCAAAACCGGGGGGAGGGGGCCAAAAAAGGAGGAAGA G G GAGGAGGGGGGCGGACCACAAAAGGGGGGGGGGGACAAAC C G A A A A A C C G G A A G A A G G G C C G G G G A A A G GA A A A GA G GAAA A A G GAAAACCGGAAGGAGGAAGGGGGGGAGACGAAAGGCCGGG GAAAAGAGAACAGAAAAGGGAAAAGGGAAGGCCGAAGAGAGG G G G G GCAAAGGGAAAAGAAACCCAAGGAAGGAAAGAAAAAGBG GAACCAGAACCGAAAGGAAAACCAAGGGAGAAGAGAAGAAAA G G A A G A A G A G G G A A A C G G G G A G G G A G G GAGAAG GAAACAAAA A G GACAAGAGGGGGAAGAAGAGGGGAGGAGAGGCCAAGACCG AACGGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGC
 GAGGGGAAAGAGGGGGGAGAGCCGGGGACGGGAAGGAAAGGG GAAGGAGAGAGACAGAAAAGGGGGAGGAGGAACAGAGGA G GAA C G GAAA A A A A A A A A A G GAA GAGAAAGAGACAGAAAAGACCGG GCAGACAAAGGGGGGGGAAAAGGGGAAGGAAGGCCGBAAAAA A A A A A G GAAAAAAAAGGAAAACCGGCCAACCAAAAGGCCGGC C G G A A A A A A G G G G G G A A G G A A G G A A G G G G G G G G A A A A G G G G G GAAAAAAGGAAGGCCAAGGAAAAGGGGGGAAGGGGAAGGGGG G A A A A A A G GA A A A A A A A A A GAGGAAAAACAGGGGGAAGAAA G G G G G G G G A G G G G A G G G G G G A A G G A A A A A A A GAGAGA A A G G A A

CAAAGAGAGAGAGGGGGACAAAAAAACGGCCGGGGAA
A A G G G GAAAAAAGGGAAAAAAAGGAAGGAAGACCGGGGGGA A A A A CAAAGGGAAGGCCAAAAGGAAAAAACAAGGAAAAAAAA A A G GAGGCCGGAAGGGAGGAGAGAAGGGGGAAAAAAAAAGGG AAAAGGGAGGAAAGGCCGGAAAAAGAGAAAAAGGGGAAAGGC C G GAA $\operatorname{A} G \mathrm{G} G A C C C C C G A G G A A A G A G A A A G A C A G G A G G G A G G A$ GAAAAAAGGGGGGAAAAGGGGGGGGAACCAAAAGGAAAAAAG GAAGGGGAAAACCGGGGAAAAAAGGAAAAAAAAGGGGGAAAA $A C C A A A A G G G G A A G G A A G G A A A A A A G G A G A A A A G G T T G G G G A$ G G G G G GAGGGGAACCGGAAGGAAAAGAGAGGAAGGAAAAAAG G G GAACCCAGGAAGAGGGGAGAGACGGAACCCCGGGAGAGAA
 TAAA A GACCGGGGAAGGAGAGAGAAAGAGGAGAAGAAGGGGG GCCAGAAAGAAGGGAGGGGAGAAAAGGAAACCCGGAGAGAGA AGGCCGGAGGGAGAGCCAGCCAAAAAAAAGGGGGAAAGGGGA $A C C G G A A A A G A G G A C G G A C A A G C A G G G G A A A A G G G G G A G A A G$
 GAGAAAAAAAGGAAGGGAGGGAGGGGAGGGGAAGGGAAATAA GAGGGAAGGAAGGACGGGAGGAGGGCAAACCAGGGAAGGGGG G G GAGAAGGAAAAAAAAAAGGGGAAAAACAAGGAGGAAAAAA
 G G GACCAAGAGAGAGGGAGGAGGGGAGAAAGGGGGGGGAAAA
 A GAG $A \operatorname{GA} A G G G G A A A A A A G G A A G G G G A A A G A G A G A G A A A A G G G$ GAGAAGGGGAGAGAGAAAAGAGGAAGAAGACAAAGCCAAGGG
 GAGAGACAGCCAGGGCAGGGAAAAGGGGAAAGGGGCCAATTC CA $A$ A A G G G G G A A A A A A A G G A A A A A A T TAAAAA G G G G G G G G A C C T TCCGGGAGGAGGAAGAGGAGAAACCGAGAGAAAAGAGGAA AAAAAAAGGGGAAAAGGAAACAGGAAGAGGGCCGAGGGGGGG G G G A A A G G A A G A A C A A G G G A A G G A A G GAAA A A A GA GAAC C C A $A C C C C G G A G G G G G G G A A A G G A C C G G G A A A G G A A A A A G G A G G A$
 AAAAGAACCCAGGAAGGAAAGGGAAAAAAGAAGCGACCACAA AACAAGAAGCAAACCCCGAGGGGAGAAAAGAAGAAAGAGACA GAAGGGAAGTTGAAAGGGAGGAGAAGCGGAGGAAGGAAAGGA G GAA A A G G G G G G G G GAAAAAAGGAAGGGGGGGACCAAAGGGA GAAAAGGCAAAAGGAGAGAAAAAGGGGGGACAGGAGAAACC G $G C C A A A A A A G A A C C X A A G A C A A C A A T A A G G A C A G A A C G A A A A$ G G G G G G G G A G G A G G G A G C A G G A A GAGGACAACCCCAAGGGGG GGGGGAAAAAAAAGGGGAAAAAGAAAGGAGAGAAAGGGAGA G A G G A A GACCAACCAAGGAAGGGGAAGGAGGGAAAAGAAAAAA AGGGAAGGAGGAAAAAGAACCAAAAGGGAAGGAAAGGAGGAG ACCGAGGGAACGAAACCGGCCGGAAGAAAAAGGGGGGAAAAA GAAGAGAGAAGACAAGGAAGGAAGGGGCCGGGGAAGGGAAAG
 $G G G A A A A G A C A A G A G G G A A G G A A A G A A G G A A A A G G A G A A G G G$ G GACCAAAGAGAAGGAAAGAAGAGGGGCCGGAA GAAACGGGC AAGGAGGAAGGCCCAACACGAGAGGAGGGAAGGGGAAAAGGG GAACCGGCCAAGGGGAAAGAGGGAAAAGGAAGGCCGGAGGAG GAAAAGGAAAAGGAAGAGAGGAGAGGGGGGGGGTTAAAGCCC CAGCCGAGAAACCGAAAGGGGGGAAGAAGGAAAAAGAAAGGG A A G G G A A G G A A A G G G A A G G G G C G G G G G A A A A G G G G C C G G C C G G G G G G G GAA $A$ G G GAAGGAACAGGAAAGAAAAAAGGGGGAGAA GAAAAGGGGCCAAAAGGGGAGAAAAAGAAAGCCGGACGCCBA GAGGGAGAGAGAGAAAAAGGGAAGGGAAGAGCCAAGAAACGC A A G GAACGGAAGAAGAAAGGATTAAAAGAGGGGGGGGGAAGA A A A G G G A G GAAACAAGGGGAAAGGGAAGGAGAAAAAACAAA G G G GAACCAAACAAAGGAAAAGGGACAAAACCGAAGCCCCGGA

GAAGGAAGGGGGAAAAGACAGGGAGAGAAGAAAAACAAACCA
 G G GAAAGAAGGAAGGAAGGCCAAGGGGGGGGAGACCCCAACA A A GAGAAAAGAAGCCAACAAAAGAGTTGGGGAAGGGGAAAAC CAGCCAGAAACAGCACGGGGAGGAGGGAAAGAAAAAGGGAGG GAGCCACAGAAAAGGAGGGGGAACCCAAAGGGAGAAGCAAAG A A GAGGC G GAGGAGAAAAACCAACCGGGGAACCGAGGACGGG GAGGGAGCGAGGAGGGGGAAAGGGGAAGGGGAAAAGAAACAA G G G G G A G C A G A C A G G G A A A G G A A A A G G T T A CA GA GC C C C G G G AAGAGCAGGAGGGAGACAAAAGGGAGAAAAGGGGAGGAAGAA AAAGGGGAGAGAGGGAAAAAAAAAAAAGGAGAAGGGAAAAAC GACGGGAGGGGGGGGAGAAAGAGGGAGAAAAGGGGAAAAAGG A A A A A A A A GAACAGGAAGGAACCAAGAGGAGCCCAGAGAGAA C G GAGGGGGAAAAGGAGGGCCAAAGAAGAAAGGGGGGGGGGG AGGACGAGGAGAAAGGGCCAAGAGGGAGGCAGGAAACAAAGG GAAACGGAAAAAAAAGGAAAAGGGGAAAAGGCAAAGGGGGGA
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 CAA A A A G G GAAAAAAGGAACCGGGGGGAAGGAAGGAAAAGGC C C C G G G G A A G G G GAA $\operatorname{A}$ G $\operatorname{GAACAAAAAACCGGGGCCGGGAGGGGA}$ A G G G A A G G GAA A G G G G GCACCAAGGGGGAAAGAA GAGAAA G C CAGGGGAGGCCGGGGCCGGAGAAAACCAAAGGGGGGGGGCAG A G GAGAAGAGAAGGACAGAAAGGGGAAGGGGAAAAAGGGGGG A G G G G A A A C G G A A A GAAAA A GAGAGGGGAAGGGAGCAGAAAA G G A G A G A G G G G G A G G C A A G A G G A A A G G G G G G G G A A G A A G G G A A A GAAA A $A \operatorname{AGGGGGGGGGGGAGGAAAAAAAGGCCGGGGAAGAA}$ A G G A A A A A G G G G G A A A GAGACAGGGAAGACCGGAAAGEAGGC CAAAAGGAAGGAAGGAAAAGGGGAAGGAAGAGGAAAAAGAGG G G GAA $\operatorname{A} G A A C C G G G G C A A A G G G A A A A A G G A G A A G G G A G G G G G$ GACCAAAGGAGAGCCGAGAACAGAAGGAAGGAAAAAGGGCCA
 $G C C G A G G A G G G G G C A G A G A G G G A A A G G G G G G G A G A A A A G G G A$ CAGCCAAAGAGGAGGAAGGGACACCAACCGAAGGGGCAAAAA G G G G G G GA G T T G GAGCCAACACCGGAGAAAAGGGGGGGBAGA AAAGGGGACAGGGGAAGGGAACCAAAAAAGGAAGAAGAGCAA
 A A G G A G G C C G G G G G G G G G G G G A A G G G GAA A C C G A G GA G C A G $G A$ TACAAAGGGAAAAGGCCGGAGGAGGGGGAGGGGAAAAAAAAA AAAGGAAAAAGAAGGCCAAGGAAAAGGAGGGAAAAAAAAAAG GAA A G G G G G G G G A G G A G G G G G G A A A A A G A A C G G G G A C G G G G A A A A A C A A G G G A A A A A G GAGAAGGGAACGGACAGCACC GAA G G G G A A A A A A A A A G G G G G A A $\mathcal{A} G G G G A A A A G G G G G G A A G G G G G G G$ GAACGGGAAGGAAAATTCAAGGGGGGACCGGAAAAAACAGAG A G GAGGGAGGGGGGAACGAGAAACCAAGGAAGAAGAGAAGGA CAAAGGACCGGCCGGGAGGGGAGGGAGAGAAAAAGGGGAAGA A G G A A G G A A A A C C C C G G G G GAGGGAGGCAAAGGAACAAAAAA A G GAA A GCCGGGAAGCCGGGGACGAGGGAGGAGAGCCAAAAG A A GAA A $\operatorname{A} G \mathrm{G} G A A G G A G G G A G G A G G G G G C A G G G A A A A A A C A A A C$ A A A A G G G G G G A G G G A A A A A G GAGAGAAAGGGCACCCCAAA GA GAGGGCCAGGGAGGAAAGGAGAGAAAGCAAGACGGGAGAAGA $A G G G G G G A G G G G G A A A G G G A G A G G G A T G G A C G A A A G G G G G G C$ C GAGGGGAAAAAAAAAAAACCAACAGGAAGAGGGGAGAAGAA
 A G GAGAAAAGGGAAAACAAAGAAGGGGAGCAAAGA GGGAAAA $G G A A A A A G G A A G A G A G A G G A C A G G G G A A G A A A A C A A A A G G C C$

A G G GAGCACAAGGAAGGGGGGCCCCAAAAGGCCAGCG A A A C G A G G G A A A A G A G A GAGACGGGGGAGGCCAA GGGGGGC CAGGGGGCCGGAAGGGGAGGGGAGGGAGGAGAGGAGACAAAA GAACAGAGGGAAGGGGGAAGGAGAGGGAAAAAAAAGAAAGAA A A A A A A A G GAA A GAGGGAGGGAAGGAAGGAAAGCCAAAACAA GAGAGGGAAGGGGGAAAAACAAAAAGGAGAAGGAACAACABG GAAGGAAAAAAGGAAAAGGAACAAGGAGGAAACGAAAAAAGG GAAAAAGAGACGAGGAAGGGGAGGAAACCGGGGGGAAAAGGG G G G G G A A G GAA $A \operatorname{Gg} \operatorname{G} \operatorname{GAA} A A A A A A A G A A A A A A A A A A G A G G G G G A$ GAGAGGAAGAAGGGGGAGGAAAGAAGGAAAGGAAGGAGACCA A GACCGGCCAAGGGAGGCCAAAGGGAGAAGGGGGGAAGAAGG GAAAGGGAGGCAAAAGAGGGAAAACAAGGAGGGAGGGGCABA GAGGGAAGGGGAAAAAAAAGGGGCCAAGACAAAGGGGAAGGA GACAGAGAGCGGGAAGGAAAAGGGGAAAAGAAAAAAGGGGGG A G GAAAGGACCGGGGAAAGGGGAGAGGACAAGACCCCAAGAG A G G G G A G A G TA G GAGAAAAAGAAGAAAAGAAAGAAAAAACAC C G GAA A G GAGGAAGGACCAGAAAGGGGAGAAGAAAACACCCG G G GAGCCGGGAAAGGGGAGAACAAAAAGGGGAGGGGGAGGAA $G C A C C G G C A G G G A A C A G G G A G A G A G A G G A G G A G G G G G G A C A A$
 GAAGGAGAAAGGGGGGGGAGAAAGGAGAAGGGAGAGAAAAGA GCATTAGGGAAAACCCCGGAAGAAAACGACAAGGGGAGAAAA
 A G G GAA A C CAA A A GAACAGACGGGAGGGACCAAGGAAGGGBAA
 GCCGGGAGGCAAGAAACAAAAAAAGAAGAGGGGGGAAAAGGT TGGAACCAAAGAAAAAAAAAAACGAGGGGGGAAAACCGGGGG G G GAA A G G G G GAAAAGGAAAACCGAGAAAGAGGGGGGAAAAG A A A A A A A A A G GAA $A \operatorname{GA} A C C A A G A G G G A G A A A C C G G G A G A A G A$ GACGGGGGGAAAATTGGAGACCAGGGGCAAAAACCGGAAAAG
 AAAAAGGAGACGGAAAGAGAGCAATGACCAGAAAGAAAAAAC CAAAAGGAAGGGACCAAGGACAAAGAAGGGGAAGGGGGCGAG GAGGAAGGGAAAAGGGGAAGGGAAAAAAAGGAGCAAGAAAGAG GAAAAGACCGGGGAAAGGGCCAGAGAAGGAAAACAGAGAGAA AAAAAACACGGGAAGGAAGAACCAGAAGGGACCCCGAAAAAG GAAAAAAAAAAAAAAAAAAAAGAAAGAGGGGGGGGAAAAGGG GAAACAGGAAGAATAAAGGGAAACCAAGGAGGAGGGAGAAAA ACAAGAAGGAAAGGGAAGGAAACAGAAAAGCAAGGAGBCAAA
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 CAGAACCAACCAGGGAAAAGGGGGGACGAAGGGGAGAGBAGA GACACGACAGGGAGAACGGGAAAGAAGGGGGGGCCAAGAGAA GAAGGCAGAAGAAAAAGGGACACAAGAGGGGAGGGGACAAAC A GAGAAAGAAAGGAAGACAAAAAAGCCAGAGAGAGAABAAAC $A C A A A A G A G G G G A A C G G C C G A G G A A G G A G G G G G G A G C A C G C A$ G GACCGGGGGGAGAAGGAGCCAACAGGCCAAGGAAGAAAGGG G GAAGGGAAGGAAGAAGCAAACACCGAAAACTAGGGGAAAAG $A \subset A G G A A G A G G G G G G A A G G G A C C A A G G G G G G C C A A A A C A A A G$ GCCGGAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGAAACA GAAGGGAGGAAGGGGGGGGAGCCGGGGGGACAAAAAGAGGGC G G A A A A A A GAAAAATAAAGGGAAGCAAATTAAAAAAAACCA AAAAAAAGAAACCGACCAAAAAGGGGGAAAGAAAAGGAACAG GAGAGAAATGGAAGAGGACGCACAAAGGAAGTACAAAGAAAT TAAACAACCAAAAAAGAAGAGAAGGGGGACAAGAGAGCAGGA GAAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCGAA A A A A GAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGAAAB AAGAAAAGAGACAAATAAAAAGAGGAAAAAAAACCAAAGAGA

A A G A ACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGGG
 G G G G G A CA GAA G GAAAACAGCGGAGAGCCCCAA G G GACC G GA G G GAAACGGAGGCGAGGAGAGAAAAGGGGGGAGGGGGAAGGG G G GAAAAAACCAAACAGGGAAGAAGGATTGAAAAAAAAGGGA CAGGGAGCCACGGGGGGGGAAAAAAAGAAAAGGAAAGGAAGC A A G G A A A A GAC G GAAAAGGAAAGGAGAAGAAGAGGGGAAAGA $G C C A G A A A G G A G A G G A G G A A G A A A A A G A C A A G G A A A G A A G G G$ GAAAAAAAGGAA $A A A G A A C G A A A A G G A A G G A G G G G G G G G G G G$ ACAAAAAGGAGAAAACCGGGGAGCCAGGGGGGGAAAAAAGGG GAAGGCGGAGGACGGAGAAACCAACAGGGAAAGAAGGAAGGC CAAGGAAGGGACCAAAGTTAAAGAGAAGAAAAAAACCGGGGA GAAGAGAAACGAACCGGGGACAGGGGGAAAAGAAAAGAACCG G G G A A A A G A G G A A GAAACAAAAAGGAAGGGGAACAAAGAAAC $C A G T A C C G G G G A C A G A G C C G A A A G G G G A C A A A G C C G G G A G G A$ $A C C A A G G A A A C G G A A A G A G G G G G A A G A A T C C A A G G G A G A C A A$ A GAGAAAGGGGAAAAAACCAAGGGGAACAGACCGGGGGAAAG
 GAAGGAAGGGGGGGGAAGGAAGGAAGGGGCAAAGGAAGGGGG G G GCCAAGGGGAAGGCCAAAACAAAAAAAGGGGCCAAGGGGG G G GCCGGAAAACCCCGGAACAAAGGGAAGGGCGAAAAAAGGA AAAGGGGGGCCGGAAAAGGAAGAAGACAGCCAGGAGGAGAAAA A G G A A A A A A G GAA A A GAGGGGAAAAGGCAAGGGGGAAAAAAA AAAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGGGAAGAAGA A A G GAAGCAGAGGGGCGCAGGCCAGAAAGAAAGAGAGACACAA GAAAAAGGGAACCGGAAAGACAAAGGGCCGGGGGAAAGAAAG GAGGGAAGGAAAAAGAAAACCAAGGAACCAGGAGGCCCCGGG $A C C A A G G C A A A G G C C A A C C A A G G G A A G G G A C G A G G A A A G G G A$ GCCGAAGGGGGAAAACAGGAGAGGGGGAAAAGGCCGAAAAAA AAAGGAAAGCAGGAGAAGGGGACAAGGGGAAAAAGAACAGGG ACCACCCTTCCACCCGAGGGGAAAGCAGAAGGAGGGGACAAA GGGCCAGAAAAGGGGGAGCGAGGGGGGGAGGACGAGAAAAGA A GAGGCAGGGGCCAACAGAAAAGAAGAGAGGGAGATTGAGAA G G GAA A G GAGGAGAAAGGAAAGGAAAAAAGGAGACAAAAGAA $A \subset C A G G G A A A A G G G A A A A G G G G G G A G G G A G A A A G G G A A A G B A$ GAGAAGGGGGGAAGGGGACGGGGAAAAAAGGAACCGACAAAA GAGAGAAGGAAAAGACAGGGGAAAGCCAAGGGGCCAAAAAAG G GAA A G GAAGGGCAGAAAGAGAGAACCGGGGAGAAGAGAACAA A A A G GCCAAAGGGAGGGGGAGAGGGCAAGATAGAAAAAGAAG GA $\operatorname{G} G A G A A G A G A A C C G G A A G G G A A A G A G G A A A G C C G G G A G A A$ GGGCCGGAAGAAAGGCCAAGGGGAGGAAGTAAAGAAGAAAAA A A A A A C CAGGGAAAAAAGGGAAAAGGAAGGGGAAGAAAAGAA AACAAGGGGAGCAGGGGAAAAAAGGCAGACGAAAGAGAGAGG AA $\operatorname{A} A \mathrm{~A} C \mathrm{C} G A A C A A G G A A A A A A A A G A G G G G G A C A A A A A G G G G G$
 G G G G G C C G G G G G G G C A G G A G A G A A G G A G G A A G G A A A A G G A A G AAAGAAACCAAGGGGAGGGAAGGACACGAGACACCCAAGTXA GAAGAGAGGAAAAAGAGAGGAGGAACCGAGGAGAGAAAAAAA G G G G G A T C A C G G G G G G G A A A A G G G G C C G G G GA G A A G G G G A A $G$ GAGCCAAGAAAGGGGGGGGGAAGGGGGAGGGGAAAGACAAAG GCAGGGGAAAGAAGGGGGGGGGGAAGGAGATACAGGAAAAAA A A G G A GAGGAAGGGGGGGGGGGGCCGGAACCGGAAAAAAAGG A A A A G A A G GAACA $A$ A $A \operatorname{GGGAACCCAAAATTCCAACCGGAGGAA}$ AAAAAGGGGAAAAGGGGGGGAAAGGGGGGGGCCGAAAAAGGG AAAACGAAAAGGGAAGACAAAAAAGAAGAGAAAA GAGGGGAA A A A A ACCAGAC GAATGAAAGACAGCAAAAAGGGAGGGAGAAA AAAAACCAAACGAAGCCAAAAGGACGGAAAAACAAGAAGGGG GAACCCACAGAAAAAAAGAGGAAAAGAAAGGAAAGAABAAGC CAAGGGGCCACAGGAAAGGGGGCAAGGGGAAGGAGAGGAGGG

G G GCCGGGAAAAAAGGGGGGGGAGGAAAAAGACAAAA
 GAAAAGGGGAAAAGGGGAAGGGGCCAAGGAAAAAACCGBCAA A G G G G A A G G G G G G G GAA T T C CAA A GAA G G G GAA A G G G G GAA $A$ CAAAAAAGAAGGAGAAGAGGGAAGGGGAAGGAAAAGAAAGAA $G C C A A G G G G C C G A A A A A A A A A G G G G A A G G C C A A A A G G A C A G G$ C G G GACAAGAAAAAACCAAAGAAAAGAAAGGAACCBACCAGC C CACCCCACGGAAGGCCGAGGAGGGGGGAAAACCCAAAAGGG G G G C C A A A A A A G G G G G A G G A G G C A A C G G G A TA $A G G G G A A C A G$ G G G G GAAAAAGCCAGAAGAAAGGGGGGCCGGGGGGAAAAAAC C G G G G A A A A A A A A A G G G A G A A T T G G GA GA G GAA G GA G G G C C A GA $\operatorname{G} A A A \operatorname{A} G C A G G G G G G G G G G G A G C C C C G A G G A A G G A A G G C C G$ $G C \subset A G G G C C A G A A A A A G G A G A A A G G G A A A A A A A A G A A G G G G G$ GACAGAGGGAGGGGGAGGGGAAGGAGGGAGCGGGGAAAAGAA GCCGGAAAAGGAACAGGAAAAGAGGCCGGAGAGGAAAGAAGA GAGGAGGAGGGACGGAAAGACACGGCCACGGGGAGACGGGGC A G GCAAACCGAGGGAGGGGCAGGACAGAAGGGAGGGGAAAAA GAGAAACGGAGACAGAAGGGGAAGGACGGGGAAAACCAAGBC $C \subset C A A A A A A G G A A A A A G C C A G G G A G A A A A C C G G A A A A G G G G G$ G G GCCGGAAAAAAGGAAGGGGCCGGAAGGGGAACCGAAAAAG G G G G G G G A C G G G G G G G A A A A A G G A GAGGAGGGACC G GA GAAA A A A A A A A G A GAG GAGGAACCGGAGACGGGGAAGGGGGGGGGGG GAAGAAAGGAGGGAGGGAAAAAAACGGACGGAGAGGAAGAGA G G G G G G A A A G G A G G A A A $\mathcal{A} A G G G G A G G G G G A A A C A A G A G A G G G$ A GAAACCTTGAGAGGCCAAGGGAGGAAGGGGAAAAGGGGGGA
 A G GAGGGAAGAAGGAGGGAGACCGACCAAAACCGGGGAAAGA A GA $A \operatorname{G} G A G G A A G A G A G G A A A A G G T T G A G G A G A G A A A A G G G G A$ $A C C G G A G G G A A G G A G G G A A C A G G A G G G A G G G A G A G G G G G G A A$ AAGGACCGAGGAAGACCAGGAACGGCCAAGAGGGGGGAGGAC C G G A G G A G GCC G G G A A A A G GA GA A G CAA A CAAA A G G G G G A G A T G G G G G GCCGGGGATGAAAGGGGAAAAAAGGGGGAAGGAGAG GCAAGGGGGAAGGGGGAAGCCACAGGGCAAACAAAGAGAAAA GACGGAAGACCCACCAGGAAAGGCATTGAAGACAAGGCAAGBG G G G A A A A G G A G A G A G G A A G G G A C G G A A G G G GAA A A A A G G A A A GACCAGGGGCCGGAAGGGGGGAGGGAGAAAACCGGGAAAGGA GAGAAAGGGGGGAAGAAGGAAAAGACAACGAGAAGAGGAAGC A GAA A A A GAGAGAAAGGAGAAAAGGGGGGAAAA GAGAAAG GA GAGTTAAGGAAAAGGGAGGAAGGAAAGAAGGGGAAAAGBGGA ACAAGAAAAGGCCAGAGCAAAGAAGCCCCGGAAGAAACAAAA $G C A A A G A A A G A A G A A G G G G G A G A G A A G A G G G A G A A G G G A C C A$ GA $A \operatorname{G} A A A A A A G G G G G G G G A A G G G G A A G A G G G A A A G G A A G A A A A$ A A ATTAGAGACACCAAAGGACGGGGCAGGCCAGGGGAACAAA AAAGGGGGGACGGAACCGGCCGGGGGGAAAAGGAAAACACAA A G GCCAAGGCCGGGGAAAAAAAAAAAAGGGGGGGGAAAAAAG $G C \subset A A G G G G G G A A G G G G A A A A C C G G G G A A A A G G A A A A A A G E G$ GAAGGAAAACCAAAAGGAAGGGGGGAAGGAAAGGGGACACCG A G GAGCAGAACAGCCCCGGAAGAGGAAAAAAAAAAGAAAAGA G G GAA $A \operatorname{GGA} G \mathrm{G} C \mathrm{C} A A A A A C C C A A G G A G G A G G G A G G A G A G G G G$
 A G GAA $A$ G A A A A A A A A TACAGGAAAAGGGAGACAATAGEAAAA A G G G G G GAGACAAAAGACCGGCCGGCCGGGGCCAAACAACAA A A A A A G G A A G G G G A A G G G G A A G G A A G G A A T T G G A C C A CAA A G GAAGGAAAAAGGGTTGGCCGGAAAAAAAAAAGGAATTACAAG A A A G G A A G GAA A GAGGCAAGGGCCCAACCGGGGAGCAAAGGG ACAAAAGCAGGGGAAAAAACCGGACGGAAGAAAAAAGAAAAA ATTAAAAAGCAGGCCAACAGAGGCCGAGGGAAGGGGAGCCCB
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 GAGGGGGGGAAAAGGAAAAAAAGACGAAGCAAAAGGGAGCCA
 A G G A A G G GAGAGAAGAAGGGGGGGGGGGGAAAAGAGAAGCCA
 A GAAAA A $A \operatorname{A} G A C G A A A G G A G A A G A G A G G G G A A A T A C A A G A G G A$ G G A A A A A C G G G A A G GAAAAGGGGAAAAGAGGAAGGAAAGAAA AGGCCGAGGAAGGAAGGGGGAAGACAGAAAAGGAAAAAAAAC C G G G G G G G A G G G G C A A A G A A A G G G G A A G G G G G A A A C C A A A G G AGGGAGGGGGGAAGGGGAAAGAGAAGGGGAAAAGGGGCCGGA A G GAA A GAA $A \operatorname{A} A A \operatorname{A} G A A A A G G A A G G A A G G C A A A C C G G G G G G A$ AAA A GAA $A \operatorname{AGGGAAAAAAGGAAAAAAAACCAAAAGGGGGGGGA}$ A G G A A A A G G A A C C G G G G G G A A G G A A A A G G G G A A A A C C T T A A G GAAAAAAAAGGGGAAGGAAAACCAAGGGGGGAAGBAACAAAC CAAAA $A \operatorname{A} A A A A A G G G G A A G G G G A A G G G G A A G G A A A A A A G G G G A$ AAAGGAAAAAAAAGGAAAAGGGGAAGGGGAAGGCCAACAAAAA A C C A A G G G GAAAA A G G G G C C G G A A A A A A G G A A G G G G G G G G G G A A T T G G G G A A G G A A G G G G G G A A G G C C C C G G G G G G A A C C G G G G G GCCGGAAAAAACCGGGGAACCGGAAAAAAAACCAAAAGGCCG G G G T T A A C C G G A A G GAA $A \operatorname{GGGGAAAAAAAAGGAAAAAAAGGGC}$ CAAGAGAATAAGGAGGGAAAAAGAAAAGGAAGGAACCAAAAA AAAGGCAGGAAGAGAGGGGCCAAGACCAAAAACGAAGCGGGG $A G G G G G A G G G G A A G G G G A A G G G G G G G G G A G A C C A G E G A A G G G$ GTTCCAAAAAAGGAGGGGGGGAAGGAAAAGGAGAGAAAAABC C GACC G GAGCAA GAGAAAAAAGGGGAAGGAGGGGGAAACGGG A G GAGGAAAGGGAGGGGCAACAGGGGGGGGGAGGGACAGCCA AAGAGGGGGCAAAGGGAAGGGGAACGGAAGGAAGAGACAAAA GAACCGGGGAGAAGAGGCCGGAAAAGAGGAAGGGGAAAAAAA A G G A A A A A A G A A G GACCAGAGCCGGGGGGGCAAGGGGACGAG GAGAAGGAGGGAAAAGGAGGGAAAAACCCGGCAAAAAAGGAG G G G G G A A A A G G G GAA $A \operatorname{AGGGAAAAGGCCGGAAAAGGAGAGAAA}$ G GAGGGGGGAGGGAAAAGAAAGGAAGGAGACGGAGAACAAAA AAAAGGAGGCAAGAAAGACAGCCAAAGGAGGCCAACCAAGAG G GAACGGGCACGGAAAAAAAGAGCAGAAAAGGAGAAGAAAAA
 A GAAA A G G GAAAACAGGGGGAAAAAGAGGTTGGAAAGGAGAG G G GAGAAAGAGAAGGAAGGAAGGAGGGAGAGAAAAAAAAAAG A G G G G G G GAGGAAGACCAACCGGACAGCCAAAAGGGGGCACA GAAGAAAGGAGGGAAGGAGAAAAAAGGCCAAAGGGAACAAAG GAGGGGAAGGGGCAAAGCCGGACGAGGAAGGGGGGGAAAAAG GCAAGAAAACCGGGGAGGGGAAGGACCGGAAAGAGAGAAAAG G G GAA A A A A A A G G A GAAAAATGGAAGAAGGAGAAAAAAAA GA GAAAAAAGAGGAGAACAAAAAGGAAGAAGAGGGAGAGAAGGA AA GAAGGAAAGCAGGAAAAGGAAAAAAGGAGAAAGAAAAGGG A G A A C A A C C G G GAGAGGGGGGGGGGAAAGCAGACCAACAAAC C G GCCGGGAAGGACCAGAAGGAAAAAAGGAACCAAACCAAGA GAAAACCGGGGGAAGAAAAGGGGGGGGAGAAAAAAGGAAAAC AAGGCCAAATAGGAACGGGAACCAAAAGGGGAAAGGGAACCG

G G GCCAACCAAAGAGAGGGGGGGAGCCAAACCCGGGG G GAAGGGAAACCAAGGAGAAGGGGAAAAGGAGGGCAAGGGG GAAAGAGGGGAACGAGAGGGAGGGGGGAGCCGGGGCCGGAGA AAAGGAAGGGGAGAAGGGGAGAAAACCAGAAGAAAAAAGAAA A GAAAAGAGGAGAAGGGCCGGGGGGGAAGAGGGAGAGAGGGG G GAGAAAAAAAGGGGGGGGAACCAGAGAGAAAAGAACGGGGA G G GAGAGGGAAACGAAAAGGGTTGGGGGGCCAAAAAAACAAA A A G G G G G G G G A G G G A A A G G A G G A G G G G G G A A A G G A G GAAA A GAGAGGAAGCAGAAAAAAAAGAGGAAGGGGAGAGGAAAAACA GGAGACCGGGGGAGGAAGAGGAAGGGGGGAGCAAAAAGGCAC C G G G G GAAGAACCGGGAGGACCAACAGAAGAGGAAGGCCAAG GAGAGGGAAGGAGGGGGAAAGGAGGCCGGAGGAAAGGCCAGA A A GAGGAGGGAAAGAGGAACCAGACGGAAAAAAAAGGGGAAC C A G GAGGGGTTGGCCGGAGAGGGGAAAAGAACCAAGAGAAGA GAGAGAAAAGGGGAAGGGCGGAACCAGAAAAGAGGACGGCCG A GAGAAAAAGGAGGAGGAGAAGAGGGAAGAAAGACAAGGGAA G G G G GAA $\operatorname{G}$ G GAAAAGAGAGCAGGGGCCGGAAAAAAAAGGGAG A G GCCAAAGGGAAAAGAAAGGAAAAGGGAAAAGGGGGGAAAG AAGACAGGGGAAGACGGAAAAAAAAAAGGACGAGGAACAGGA AAACAGGGGGAGAAAAAAGAAGGTTAGGGACACGGGGGAAAG ACAGAGAGGAGGAGGAAGGGGAAGAAAGAAAGGCCGGAAGGA AAAGGGAAAAGAAGACAGGCCGAGGAAAGGGAAGGAAAGCGG ACCCCACGCGGGGAAAACAGGAAAAAAGGGGAGATAGCCGAC C G GCCAAAAAGGGGGAAGGGGGGAAAAGGAAAAGGAAAAAGG A G G G G G GAAAACAGGGGAGGGAAAAGAAAGGGGAGGGGGTTA AACGAAAAAGGCCAAAGAAAGAGAGAAGGAGGGCCGGCCAAA GACAGAGGGGGGGGGGGAAAAAAGGAAAACATAAGAAGAGGA G GAGGAAAAGGGAAAGGAAGGCCGGCCGAAGAAGAGGGGAAC A G GCC GAA G G GAGGAGACAGAGGCCAGGGAAAGGGAACCAGG GACAAAACCGGATAGCAGGGGGAGCAAGGGGCCACAACCAGG G G GC GAGAAGAGGAAGGAGAAGCAAAAAAAATTCCGGGAGGA ACAGAGGAAAGAGGGAACCAAGGACAGAGAAAAGAAGAAAAC ACCAAAAGAACAGGGGGAAAGAAAAAAGAAACCGGGGGGAAA A A A A G A GAGGGGAGAAGAAGGAAAAAACAAGGGAGAGAAAAG A GAGAGAAGGAGAGGGGAACCAAGGAAAAAAACCAGGGGAAC GAGAAGGAGGAGGGGAAAAAAGGAAGGGGGGGGGGGGAAAAA A G GAAGGGGACCAAAAGGGTTGGACAAGGGAAACCCCAGGAA AGGCCGGAAAAAAGGCCCCAAGGCCCCGGCCCCGGGGAAGGA
 A G G G GAA $\operatorname{l}$ GAAAGAGGAGGAAAAAGGGGGGAGGGAGGAAGGC A G G G G A A A A G GAGAGGGAGAAAAAAAGGGAAGGAAGAAGAGA ACC G GCC G GAAAAAACCCCGGGGGGTAGCGGGGGGAACAAGG GGGGGAGGGGGAAAAAAAAGAGGAGGGAAAGAGAAGGAAGGA AAAAGCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGGAG GAGAGCCGGGAAAATGAAGGAGGAAGGGGGGAAGAAGAAGGG
 AAGAAAGGGGAAAGGAAAGGGAGCCAAGGGAAAAGGGGACCG G G GAAACAAAGAAGGAAGGAAAAAAGGGGAAGAGAACGAGGA AGAAGGAAGAGAAAGACAAACGGACAAAAGGAGAAAAGGAGG
 G G G G G G GAA $\operatorname{G} A C C A A G G G A G G G G A A C A G G A A G G A A C C G G G G G$ GAGGAACGACAGGGGCCGGAAAAGAAAGGCCAAGGGGAAGGA AAAAGGACCAAAACCGGGGTAAAAGACGGGGGAGGGGGGAAA A GAGGCCGGAGAAACCAGAGGGAGAAGAAAAAAAAAGGGGGA AAAAAAAGAGAGGAAGGGAGGAACCAAAAGGAAAAAAAGGAA G G GCCAAACAACGGAAAAAAAGAGAGAGAAAAACCGGGGAGA A GAGGAGGAAGAGCCAGGGGAGGAGAACCAAGGGACCGGAAG GAAAAGGCCGGGGGGAAAAAAGGCCGGGGAAGGCCAAAAAAA AGGAAAAAAGGAAAAAACCGGGGCCAAGGGGGGAAAAAACCC

CAAGGGGAAAAGGGGAAGGGGAAGGCCGGAAAAAAGGGAAAA A A A A A A ACCAA G GAAAAAAAAAAAAAAGGGGAAGGGGGGCCA A G G G G G G C C A A G G A A G GAAAAA $A \operatorname{AGGGGGGGCCAAAACCGGGGA}$
 A A ACCAACAGAGGAAAAAAGGGAGGGGGGACATAAAAAA GAA A G G A A G G G G A A A A A A G A A G GAA $A \operatorname{GGGAACCGGAGGAAAGGGGA}$ $A G G G G C A C C A A G G A G A A G G G G G G G A A A G G G G G G A A A G G A G A A$ GGGGAAAAAAGACACAAGGGACCGAGAGAGGAGAGGAGAAAA A G G A G G G A A A A A A G G G G G G A A A GCCAACCAGGAGGCCGABAA AGGGGCCCCAGAGAGAAACGGAAGAAGGGAAGGCCAAAAAAG G G GCCAGGAAGGAACAGAGAGACGAGGGGAAGGGGAAGACAA A G G G G A A G GAA $A \operatorname{GGG} \operatorname{GA} A \mathrm{G} A \mathrm{~A} A A A C A A A G A G A A G A A G A A G A G A G$ A G G A G G G G A A C A A G GAGGGAAGGAGGAAAGAAAGGGAAAAAA A A A A A A A A A A ACCAACCAAGGGGGGGGCCGGAGAGGBAAGGG GAACCGGAAAAAAGGGGAGACGGAGAAAAGGGGAGGAGAAAA AAAGGAAGAGAGGAAAAGGGGGGCCGGAAAAGGGGAAAAAAG G G G G G G G A A G G A G G A G A A A G G A A G G A A G G G GAA A A G G A A G G A GAAAAAGAAAAAGGGACAAGGGAGGAAGGGGGAGAAAGAAGG A G G G GAA $A$ A A A A A GAGAC $A \operatorname{AAGGAGGACGGGGGGGGGAAAAAA}$ A GACAAGGGCAGGCAGGAAAAAAGAAGGAAAGGGGAAAAGAA GGGCCGGAGAAGAGGAGAGGGGAGGGAAAGGGGGAGAAAAAG GAAAAAAAGAAGAAAAGAACAGGGGCCGGAAGGAAAAAAGGG

 A G A G G G GCCAAAAAGGAAAAAACGGGAGGCAGGAGAGGAAAC CAA $A \operatorname{GAA} C A G G A A G G G A G G A A G G A A G G A A G A A A G G A A A A A G A$
 G GAAAGGCAACAAAGGAAGGGAGGGCAAAGGGAGAAAAAGAC CAAGGAGAGCCGGAAACGGGGACGACCGAGGAGGAAAGGGGG GAAAGAAAAAGGAGGCAAAAAGGCAGGGGAGGGAAAGAAGAG A G G A A G A A A A A A TA A G GAA G GAAGGAGAGAAGAAA GAAA GAA GACAAGGGGGGAACCGGAGCCAAGGAAAGGAGGGGAGAGAAA A G G G G A A G GAC GAACAGAGCCGGAAAAAGCCAGGAAAAGGAG G G G G G G G T T G G A G C C A G G G GACCGGCAACAGAAACAAG G G G A A G G A G A A A A G G A A G GAACCGGGGAGCCGAAGCAGAAGACGAA G GAAGGACCAAGGGGGAGGAACCGAAAAACCAAGAGGCAGAG
 G GAGGGGGGAGGAGGAAGAGGGGGGAAGGCAAGGACACCGGG A A A G A A A G A A A A G A A A GA GAAAA A G GAAAA $A$ A G G GA G G G G G G G A
 C GAAAACAGAGGGGGCCAAGGCCACAGGGGGAGGGGAAAAGA A A A G G A A A A A C G A GAGGGGGAAGAGAGAAGAGAACCCCCGAC A A G G G G G G GAGGGGGGGGGGAGGAAGACCCAAAGACAAGGGC
 C GAAA $A$ A $A$ A $A G G A G G G G A A A A A A G A C A A A G G G G A G G A G A G A G$ A A A A A A G A GCAAA $A \operatorname{A} G A A G G G G G G G A A A A G G A C A G G C C A A G A G$ GAAAAAGCAAAGGGGGGAAGGAAGGAACCGGAAGGGGGAAGC


 GAAGAAGGGGGAAGGGGGGAAGGGGAAGAGGAAAAAACAGAC CCCAAAAGGAACCAGAAAAGGCCAGAGGAAAGGAAGAAACAA AAAGAGAAACAGGCCAAAAAAGGGAAAAAAGAACCAABAAAC CAAGGAAAAGGGGGGGAGAAAGGCAGGAGGGGGGGCAAAGGC CAACCCCCCAAAGGGAGAGAAGGAACCGGAGGGGGCAAAGGG A A A G G A A A GAAAAAAAAGGAAAAAAAAGGGGCCGGGGCCGBAA A A G G G A G A GAAAGCCGGGGAGAGAGAAGAGAAAAAGGCAGAAA A G G G G G A A A CAAAAAAAACACGAAAAAGGGACAGGAAAAAAB $A C A A A G G A A G G G A A G A A C A G G G A G A A A A A A A G G A C A G A G G G T$

T G G C A A A $\mathcal{A} G G G A A A A A G A A G G G G G A G G G G G G A A C A A G$ C C G G G G A A G G A A A A A A G G G G G GA $\operatorname{A} A A A A A A A G G G A A C C A A G G$ GAACCCCAAAGAAACAGAAAAAGGGGAGGGAGGGGAGGGGGG GAGAGGGAGAGGGAAGGAACAGGGGGGGGAAAGAAGGGAAAT TAAAGAAAAAACAAAGGGAAGGACAGAAGGGCCGGAAAAAAA GAAAAAAGGGGGGAAAAAAAAAAAAAACCAAGGAAAAGACCA A A A G A A G G GAGAGGGGAAAAAGAGGGGAGGACCAAAAGGCCA AAAGAAGGAAAAAGGAAAAGGAAGGAAAAAAGGAAGAAAAAA ATTGGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC $C G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G A A A G G G G G$ G G G G G G G G G A G A C A A A G G G A G G A G G A G G GCCGGGGAAA G C A G AAAGGAGGGAAAAAAAGCCAGGAGAAAAGCCGGAGGGAGAAA A A A G G A G G G G G G G G G G G A A A C G A C C G GAA A A G GAC G GA G C A T A A G G GCCAGGGGGGGGGAAACGAGGAGGGGGAGAAGGAAAAC $C G A G G A A A G G A G A G G G A A A A G A A A A A A G A A A A A C C G G G A G G A$ AAAGGAACCGGGGAAAGGGCCGGAAGGGGAAAGGGAAAAAAA GACAGAAAAGGAGGGAAGAAAAGAAAAAAAAAAGGAGGAAGAA $C \subset C A G G G G G A A G A A G C A G G G G A A C A G G C A A G A G A A A A G A A A A$ $A C C G G C C G G G G G A A A A G A G G G G G C C A G A C G G A A G G A A G A A A G$ G G G G G G G A A G G G G G G G A A G C C G G C C G G C A G G A A A A A G CAAC C AAGACAAGAGGGAAAAAGGAGGGAACCAGAACCGGAAGGAGC CAAAAACAGCAACCAGGAAGGGAAAAGGGGGCCAAGAAAAC G G GAAAGGCCGGCCACCCAGCAGGGGAGGAGAAAAACAGAAAG AAAGACAGGGGCCAAAGCCAAGGAAAGGAAGAGGGAAGAGGG $A C C G A A A G A G A G G G A A A G G A A A G G A G G G G A G C A A A G A G A G A A$ A G G A A G G A A A A G G A G G A G G G G A A G GAGAAAAGGGGGAA GAA $A$ ACATTGGAGAAGGGGAAGGGGGGCCAAAAGGAACCCCABAAG GAAAAGGAACCCCGGGGGGAAAAAAGGGGAAAAAGAAGGGGG G G GCCCCCCGGAAGGGGAAAAAACCGGAACCAAGGAAGGGGA AGGAAGGGGAAAAAAGGGGAAAAGGAAAAGGAAAAAAAAGGA $A C C A A G G A A C C G G G G G G A A G G G A A G A C G G A G A G A G A G A A A C A$ AAGAAGAGGAAGGGGAGAGAGAACCGGAAACGAAGGAGAGAA GAGGGAAAGAGAAGGGGAGAAAAAAGGACGGACAGAGGAAGA G GAAGGAGGCCAGAGACAAGGTTGGAAGGGGAAAAAAAAGGG G GAGACAAGGGACGAAACAGGGGCCAGAACCAAGAAAGGGGA A A A G G A A A A G G A A G G G A A A C A A A A G G G G GAGGGGGAAA G G G A A A A A A A GAA A ACC G GAGAGGGGAGGGGGAGGGGGGAAAAGAA GAAGGCCAGAGCCAGGGAATTAAAAGGAAGGAGGGAGAAAAA
 GAAGGGGGAAGCCCAAAGGGAGAAGGAGGGGAAA G GAAGGGGG A A A A A A A A A G G A A A A A ACCAGTTAGAACCGGGGAAGGAAAAG $A C C G A A A G A G G G A G G A G G C A A A A G G A A G G G G G G A A A A C A A G G$ G G G A A A A GAAAGGGGGGAAGGAAAAAGAAGGAAGGGAAGACG GAAGACCGGGGAAAAGGGGCCGAAGGAAAAGGAACGACAACC C G G G G G G A A G G A A A A A C A A G G A A A A G G G GAAGGTTAAAAC C T TAAAGAAAGAAAACCCCGGAGAAAGCAGGTTAAAAAACCGGA AA GAAAAGGCCGGAAAAACCACCGACCGGGGAGCAGAGGGGA A GAGAGGAGGGGAGAGAAGAAGGAGAAGGGACAAAGGAAAAG GCCGGGAAGGAGGAAAAGGGGAATAGGCAAGGGCCACAAAAA GACGGAGACAAAACCAACCAGGGAAGGAGAAACGGGGGGGGC C G G G G A A G G G G G G A A G G G G G G G A G A G G A A A A A A G A A GAA $A$ A A GACAACCAGGGGGACATGGGGAACACGCCAAAAGGAAAAAAG
 G G G G A A A G GAAAAAGAGGGACCCGAGGCAAAAGAGCAAAGAA

 GAAAAAAGGAGGCGACCAAGGAGAAAGGAAGGAGAGGGGGGG G GACAGGGGAACAAAAAAAGGAAACGCCAAGGAGAGACAABC $A C C C C G A A A A A A A C C G G C A G G A C A A G C C C C G G A A G A A A G C$
$A \subset C A A G G G G G G G G G G G G C C G G G G G A A A G G A A G A G G G A A A A C A$ $C G A C G A A G G G G C C G G G G G G G G G G A G A G A A G A G G A A A G A A G G A$ G G G A A G G G GAAAAAAGGAGGGAAAGGGAAAGGGGGGGAAAGGAG $A C C G A C A G G C A G G G G G A A A G A G G G G G G A A G G C A A G G A G G A G A$ A G GAACAGGAAAGAGAGAGGGGGAGAAGGTTGGAGCCAGAAA A A A GAA A G GAA $A \operatorname{A} \operatorname{A} T \mathrm{~T} A A A G A A A G G A A G G G G G C C A A G G G G G A A$ AAAGGGAGAGAAAGAAAAAAGGAGGGGAGGAAAGAGAAGGAA A G G GAAAAGACAAGGCCAGAAGGGAGAAAGGAGCCGAAGAGA C C A C G G GA GAA $A \operatorname{GGGAGGAAAAAAAAGAGAAACCAAGGGGGGG}$ G G GAAAGAGAGGGGAAGACGACCGGAGAAAGGGGAAAAAAGA GACCCGGAAGAAGAAAAGACCGGGGAAGGGGCAAGACAAGAA AGACCGGGACCAAAGGAGAACCAGCAGAAAAGGAAGAGCACA C GAA $A$ A A A A A A A A $G G G G A G G A G G G G A A A A A A G G A C G A A A A G G$ $G G A G G C C A A G G G G A G A A G G G A A G G G G G G G G A G G G A G G G A A A A$ AAAAAGGAGGAGGGGAAGGGGAGAGAAAGGAAAGGGAAAAGA G GAACAGGGGAAAGAACAAGGCAGGCAGAGGAGGGAAAGGGG GAAA A G G G A A A C C G A C C A A GAGGGGGGCCGGGGGGGGTAACA GAGAGGGGAAGAAGAGGAAGGCAGAAGGAGGGGAAGAAACAA C G GAGAAGGAAGGCAAGGGAGGAGGAGAGCACCGGAAACGGA GACGGCCGGCCGGGACCGGAAGGAAGAAGCCAAGGGGAGAAG AAAAGGACCGGGGGGAAAACCAGGAGGCCGGAAGAGAAGAAA A GACAAAAGGGAGAAGGCAGGGAGGGGGAAGAAGGGGAAGAA A G GAA A G G GCCAAAACCGGGGGGAAAAAACCAAA GGGAGGGG


 G G G G G G G G A GACAA $A$ A $A \operatorname{C} G G G G G A G G G G C C A A A A G A T T A A G G G$ G G G A A G G A G A G G G A GAGGAGGGGGGAAAAAAAGGAAACAGGG GAAA A A A A GAA $A \operatorname{A} \operatorname{A} A \mathrm{G} A A G G A A G G G G G G A A G G A A A A C C G G G G A$ A G GAACCGGAAGGCCCAGAGGGGCCGGCCGGGGGGAACAACC CAGAAGAAGGACCAGGGGGGGCAGAAAGAAAAGGAAAAGAAC AGAGAAGGAGAAGAAAAAACCAAAAGGAGAAAAAAGAACGAA A GAGGAGGGGAGGAAAGGGAAAAGGGGAGGAAAGAAACAAGG G GAAACCAGGGGGCCAAGGAAAAGGAAAAAGAGGACGCAAGAA CA $A$ A A $\mathcal{A} G A G G A G A G G A A A A G G A T A G G A G G G A G A G G G G A G A A C$ A A A A G G G G A A A G G G GAGAAGGGGAAAACCAAGGAGAAGGGAA G G GAGGGAAGAGGAAAAACACAGAAAAGGAGAAGGAGGACAA AA $A G G A G A G G G A C C C G G G A A G A G C A G G A A G G A A A G C C G A G G C$ CACCAACAAGGAAAGAAAGCCCCGGAAAAGAGAAAGGAGAAA GAAGGGGAGAACCAGGCCCGAGGAGGAAAAAGGAAGGGAAGG $G G A A G G A A A G G A A A T A G A A A A G G G G C A G G A A C C A A G G G G C C G$ GAAAGCAAAAGAGAAAGACCCGAAAGGGAGGAGGGAAAACAC
 ACCGGGAAACCGAAGGGAAGGAAAAAACCGGGACCAAAAAAA A GAGGGGAAAAAGAGAAAGAGGGAAGAAGGGCCCCGAAAGAA
 GAAAGGAGACCGAGGGGACCATAAAGGGGGGCCAAAGAAAAG GAAAAAAGAAGTAGGAGAGGGGAAAAAGGGAGGGAAGAAGGG

 GAACAAAGGGGGGCCGGAGAACCCAGGAAGGAAGGAACAAAA
 A GAACAACCAAAAAAGGGGGAAAAGAAGAGGAGCCGGAGAAA A G G G G G GAGGGAAGAAAAAAGGAGGAAAAAACCAGGAGAGGA AAACCGGAAGGAGAGGAAGATAACCAGGGACGAAGCCAGGAA A A A A A A A A A A GAA A G G G G G A A A A A GGGGGGGCCAGCCAAGAA
 GAGAAGGAAGGACGAGGGAAGAACAGGAGAGAAGBAAGGGGA G G G G G G GAGGACAGAAGAAAAAAGGGGAGAAGGCAAACAACG

AAACCGGAAGGCCCCAGAAAAAACCAAAAAAGAGAGG G G G G A C A A G G G G G G G G G A G G C C C A GAAA A A A C G GAAAA A G C C G G A A GACAGACCGGGGAAAGACAGAAAAGGCAGGAAAAGGA CAAAGAAGGGGGGGGAGGGAGCAAGAAAGAAGGGGGAAAAAA AAAAAGGGGGGAAAAAGTTGAAAAGAGCCGGAGGGGAAAGGG AAGCAGGGGGAAACCAAAAGGGGGAAAAACCAAGACAAGATA G G GAA $\operatorname{A} G \mathrm{G} G \mathrm{~A} C A A A A A C A A A A G A C G G C C C C C A A A G A G G G G G A A$ AAGGGAAAAGAAAGAAAGGAAAAGAAGGAGGAAACAAGACAG GAAGGAGAACAGGGGGGAAGGAAGGGGGGAGAGAAAAAAAAA A AACAGACAGGAGCAAAGGGAGGGGCAGGGGGACAAAAAAAA G G GAAAAGGAAGGGGGGGGAAGGAAAAAAAAAACCAAGGGAA A G GAACCGGAAGGGGAAAAAAAAGGGGCCAAGGGGGGAAAAA A A A A A G GAAAA $A \operatorname{A} A A A G G A A A A C C G G A A A A G G G G A A C C C C G G G$ G G GAA $A \operatorname{GAA} A G A A A A A G G A A A A A A G G G G A A C C G G C C G G C C G G G$ GAAAAGGGGCCAAAAGGGGGGTTAACCAAGGAAAAAACCGGA A G G G G G G A A A A G G G GAAAA A G G GAAAAAAGGGGAAAACAAAA
 $G C C C C G G A A G G G G C C G G G G A A G G A A G G G G G G G G A A A A A A C C G$ $G C C G G G G A A G G A G A A A A A A G G G G C A A A A G G A G G A G G G G A T T A$ A A A A A G GCCGAAGGGCCGGGGGGCCGGCAAGGGGAGAAACAA GAAGAAGGGAGAAAAGGGGAAAAGACCAAAAAAAAGGAGGGG A G GAAGAAAGAGAGGAACCAAAGAAAAAAGGAGGGGAAAAAG GAGGAGGAGGGCCGGGAATAAGACACAGAAGGACCAGCAGAA ACAAAAAAGAGGGCCAAGGGAAAAGACAAAGGAAAAGACGCA G GAAACCGGAGACCAGAAGAAGCCCCAGGAAGGCCCCGAAGG GAGGGGGCCAAAAAAAAGGCAAAGGAAGGAGAGAGEAAAGEC C G G G G G GCCCCAACCGGAAGAAGGAGGAGCCGGAGAGGAAAG GCCGGAAAAAGGGGAGAGGCCGGAAAAAAAAGGGGAGGGGGA $A C C A A G G G A A C C C A A A C G G A A G G A A G G G G G G A A A G G G A A G A A$ GAAGAAAAAGGAAAGGAAACCGAAAAAGGGGGAAAGAAAAAG GAAAAGGAAAAGACCGAAAAACCAGAAAAAAGGGAGAGGGGA C G G G G G G C C G G G G A A A A G G G G A A A TAGAA $A \operatorname{A} G A G A G A G C A C A G$ GAGAAAGGAAGAGGAAAGGGGGGGGAGCAAACCAAGAAAAAG GAGCAAAGGGGAGAAGGAACAAAAGGAGAAAGGGGGGGAA G T TAAG $A \operatorname{AA} A G G A A G G G G G G G A G G A A A A A A G G G G A C A A A A A A G B A$
 AAAACCCGAGGGGGGGAAAAACCGAGGCCAAAGTTGAAAGAG A GACCAAGAGGGAAAAAAAAGGAAAAGGAGGGGGAAGAACAA GAGACAGGGACCCGGAAAAAGGGAACCAGAAAGAAAGAAGAG
 A G GAA A GAGAGGGGAGAAGCAAGAAGGAAAACCGGACAAAAG A GAGAGAGAAAAAGGCAAGACAAAAGGGAGAAGGAGGGAAAA CAGCAGACCAGAAAGAAGAGGAGCCAAGGGAAGAGAAGGGGA GAGGGCCAGGGAGGAAGAGGGCAAGAGGAAAAAGGAAAGGGG
 GAGGGGGCAAAAAGGAAGGCCAAGGGAAGAAGGAAGAAAAAG A A G G G G A A A C C C C A A G A A A A GAGAACCGACCGGAGGAGAAA G GAAGGAAGGGAAAGAAAAAGGCCGGGAGAAGAAAAGAAAGGA AAAGGAAAAAGCAAGAGGGAAAGAGCAAGAATTAAAAGAACA
 C GAAACCAAAAGGGGGGAAAAAGGGGGCAGGGACAGGGAAAA $G G G C C A A A G G G G G A A G G G G G A G G A G A C A A G G C C G A A A A A A G A$ A G G A G A A C C G A G G A G G A C A G G G G G G A A A A GA $\mathcal{A} G$
$113110000-9 A A A G G G A C G G A G G G G G A A G G G G A A A A G A A G G G C$ A A A A G A A CCCCCCAAGGGGGGCCGGAAGGAAGGCCAAAAGAA $A C \subset A A A A G G G G A A A A G G A A C C G G G G G A A G A C G G G G C C G G G G G$ $A G G C C A A G G A A G G G G A A G G A A G G A G A G A C G G A G A A G G G A G G A$ $A C C A A G A A A G G A A G G C C A G A G C C G G G G A A A A G A A A G G G G G G A$ $A C C A A C C G G A C C A G G A A A A A G G G A A A A G G G G G G C C A G C C G G A$

A G G A G G A G G G G G G A G G G G G G G G A G G A A G G C C G G A A A A G G A A G G G G A A A A A A A ACCAAAAAAAAGGAACCGGAAGGAAGAAAAAA $A G G A A G A A A G G G G A A G G G G A A G G A A G G A A A A C C A G A G G A A G A$ ACAGAGGGACCGAGAAAGAAAAGGGAGAAACAACCAGGAAAG GAAGGAACCAGCAAACCGGAAAAGGAGAAGGAAAAGGTXGAA GAAAGGGAAGGAACCGGGGAAAAAAAAATCCGGGGCCGGGGA
 A G G A A G GAAGGAAAGGGAAGAGGGGACGGGGGGAAAACAAGA A G A G A A C A A C C G G A C G G C A G G A A A A C A G G G A A A G A A G G G A G G GAGGAAAAAGGAACCGAGAGGAAAAAGCCGGAAGGAAAAAAA GAGAGAAAAGGAAAAGGGGGGAACCAAAGCAGAGAAGAACAG A G G A G A G A G A A C C G C G G A G G G G G G G G A G G A GAGCAA A A A G A A A A A A A GAAA A G A A G G G GCCAAGGGAAGGGCCGGATGGGAAAG G G G A A A A C C G A GAAACCGAGAAGGACATAAGCCAAAAGGAGG G GCGAGAAAGGGGACCCGAAGAAGGAACCGGGGAAGGGGCCA GACAAGGCCGGAACAGAGGAAAAAGGAACGGAGAACAGAAAC $A G G C A G G G A A A G G G G G G A A G A G G G G A A G G G A A A G G A G A A G A G$ C GAGGAAAAGAGGAGCCCAGAGGCACCGAAAAACCAGGGCGG $G C C G A A A A A G G G G A A G G G G G G A C G G G G A A G G A A G G A A A A G A C$ C G A A G A A G G A T A A G A A G G G A G C A A A A CAAAAAAAAAC A A A A G GAAGGGAAGGAAACCGGGAAAAGGGCCAGAAAACCAAAGGAG G G GAAA $A \operatorname{G} G A A C C G A G A A A A A C C G G C C A G G G A A G G A A G G G G A$ A G G G G G G G GAAA A A GAACCAGAAACCCGGGGGAGAAGGAAGAC A A ACCCCAAAAAAAAGGAAGGGGGGAACCAAAAAAAGGGGGA $G C A A A A A G G A A G A A C G G A G G G G G G G G A A A G G G A G G G G G G G G A$ A A G G G GAAAAACCAAGAAAAGAAAGGGGGAAAAGGCAAAGAA GAAGGAACCGGAAGGGGAAAACCGGGGGGCCAAAAGGAAGAA A G G G G A A G G G G A A G G G G CAA A A GAGCCATGGAAAAAAAAGAC A A A A G G G A A A A A A GAGAGGGGAAAAAAAAGGTAGGGGAGGAA AAAGAGAAAAAAAAAGGGGAAGGGACCAGAGAAGAACAGGGG GAAGGGGCCAGCCGAGGGGCCAGGGAAGGAAGGACAGACAAA AAACCACAGAAAAAAGGGGGAGGGAAAGGAAAGGGGGGACAG GAGAGGGATAAGGGGGGGAGAGGAAGGGAAAGGAAGACAAAG GAATAAAGGGAAGGGAAAAAAAGAGGGGGAAAGGGAAGGGGA GAGGGGGAAGGAAAAAAGGCAAAGAAGAAACGGCCAGGGGGA A A G G A G G G G A A G G G G G A C C G G G GAGAAAGGGAAAAAAAAC A A A C G G A A A G G G G GCC G G G GCC G G A A A A A A G G A A G G G G A A G G G G C A A GCCCAGGAAGGAACCAAGGGGAGGGCCGAAGGGGGGBAAA A A A A A A A $G G G G G G A A G G G G A A A A C C A A G G G G C C C C A A A A A A A$ A A A A A G G T T A A A A G GAACCGGGGAACCAAAAAAGCCCAAAAA A $G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAGGGGAAAACCGGGGAAAAAACCGGG G G G G G G G G G A A A A A A G G G G A A A A A A G G C C A A C C A A C C A A A A A

 A G G A A A A G GAACC G GAA A GAAACGGAGGGCAGACCAGGAAGG G G G A A A GCCAAAGAAAAAAGAAAGAGAAAAAGGAAAACAGBA A G GAGAAAAAAAACCAACCGGGGGGCCACAAAAGGCCAAGAG GAAGGAAGAGACCGGCCGAAAGAACAAAAAAGGGACAAAAAG GAAGGAAGGAAAAGGGAGAACGAAGGGGAGGAAAAGGGAAC G G G G A A C A G G GACCAAGGAACAGGAACCCCGGCCBAGGGAAGG GAAGGAAAAAAAAGGCAGGGGACGGGAAAGAAAAAGGGAGGG GAAAAGGCCCACCCCGGCCGGGGAAAAAAAAAAAAGAAAAAA G G G A A A A G G G G G G A A G G A A A A C C G G C A G G G G G A G G G G C C A G G A G GAACCGGAAAACAGAGGGGGGGAGGGGAGAGCCAGAGACG GAAA A A A G G G GCAAAGGAAGGGGCCAAGGAAAAAAGCAAGGG GCCAAGGAGGGGAGACAGAACAGAGGAACAGGGAGAGCGGGA G GAGAGAGGGAAGGGAAGGTTGGATGAAGAAAAAAAAAACAA G G A G G G G A A A A A G CC G G G A A A G G A A GAAC GAA G G A A A A A G G G G GAAGCAAAGGGGAAGGAGACCAAGGGGGGGCCGGGGAGCAG

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 A G G A A GAA $A \operatorname{GGG} G A A G G A A G G G G G A G G A A C C A A A G G A G G G G G$ $G C C A A A A G G A A A G A G A A A A G A C C A A A A A A A G G A A G C C A G G G A$ A G G G G A A A A A A A A A A A A A A A A A A C C GAAA $A$ A GGGGGAAA G G A A G G A A G G G A A A A A A A G G A G GACCGGGGCAGGGAGGCCCAA G G $G C G G A G A A G G A G A G G G A G G A A G A G G C C G A A A A A G A G G G A A A G$ GAACAGGGAAGGAGGAGAGCCAGGGAGAAGGCCGACCCAGGA G GAATAGAGGAAGAGCCGAAAAAGAGGGGGAAGGGGAAAAAA A G GCCGGGGAAAAAAGGAAGGAAGGAAAAAAAAGGGAGGGGA A A G G G A A G G A A A A A A G G G G G G G G A A A A A A A A G G G G G A A A G G A $A G G G G G G A A G G G G C C G G G G A A G G G A C A G G G A A A G A C C A A A G G$ GAAGGGGAGAGGGAAAAAAGGCCAAGGAAAGAA GAAAGAAGC C G G G GCCAGGGAAAAAAGGAGGAGGGGAAAGGAAGAAGAAGA G G G G G G G G G GACCAAGACCAACCAAGGAAGAAAAGGGGGCCA $A G G G A A A G G G G A A A A A G G A G A A G G A A A G A G G A A G G G A G G G G A$ A GAGGAGGGAAGGAGAAGAGAAAAAGGAAAGGGGGGGAAGAA A G G G GCAAAAGAAGGGGACAAGGGAGGAAGAGGGGAAAAGGT TGAAGCCGAGGATGAGGCCGGAAAAGGAAGGAAGAAAAAAGA G G G GAA AGGGGAGAAGAAAGGACAAAAAAGGGAGAG GAAAAA GATGACAACGGGGAATTAGAAAGCCGGGGAAGGGGGCAGCAG A G G G G G G A A G A TA $A \operatorname{G} \operatorname{A} A A A C A G A A G A G G G A G A G A G A A G A A G A A$ CAAACGGGAGAAAAGGGGAAGAAGGAAGGACAGTTGGGGGGG
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 A G G A A G G C C A A G G C C C C G G G G G G G G A A A A G G A A A A GA G G CA C C GAAAAAGGGGAAAAGAAGGGAAGGGGAAAGAAAAAAAAGBC
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 C G G G GAA G GAACCAATTCCGGGGAAGGAACCCCCCGAGAGAC CAA $A$ A A G G GAGGGAAAAAGTAAAAAGGAAGGGGAGAACAA $A$ A A $A$ A G GAAAAAACCGGAACAAGGAAGAAAGAAGGAGAAAAGGGGG GAGAAGGGAAGGAAGGAAAAAGGGGGAAGGGGGAAGGGAAAG G G A A A G G A G G G G G G G G A A G A A A G G G A GAGAAGGGACA GAA G G G G G A A C A A A A A G G G G G G G G G G A A A A A A A A A G G G G G G G G GA $\mathcal{A} A$ T G G A A A T G GAGGGAAGGAAAAAAGAGAAGCCCAAAAGAGCCA AGAGGAACCAGAAAAATGAAAAATTTAACAAAAAAGGAGGAG GAGAAAAAGAAAACGGGTAACAGAGACAGTACCAGGGAAGAA G G GAAGAAAGAGGGACCAAAAGACCAAGAAAAAGGGGGAAGA GAGGAACAAAAAACAGGGGAAGAGAAAAAGGAGAGGGAGACC
 G G GAAA A G GAAAGAAAGAAGGAACCAAGGGGCAAAAGATCCG $G C C G G C C A A A A G G A A A A A G G G G A G G A G A A A A C A A A C A A G A G A$ GAGAAGGGGGGAGAAAAGGAAAAAAGGAAGGGGAACCGAAAA AAAGGCCGGGGAAAAAAGGAAGGGAAAAGAAAAGBAAGAGAA AA GACGGGGAAGGGGGGCCCAAGAAGACCAGGGGGCACCGGA A G GAAACAGAAAGAAAAAAAGAGAAAAGGGAGGAGAAGGGGG GAGGGGGAAGGGGAAAAAAAAGGGGAAGGAAGAAAAAAAAGA TGGGGAGCCAGAGGACCGAACCAGAAGAAAACCCCAAAGTAA TGAAAAAAGCAGACAAGGAAGAGAGCACAGAAAAAGGGGGGA G G G G G A A G G A A G G G A A A G A C C G A A A G G GAGGAAGGACA G GA A A G G G GAA $A$ A $A \subset A G C C G G C C A A C G G G A G A A A A G G A G A A A G A A A$
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 AA G GAA A A A C C G GAGGAAGAAAACCACAAGGAATTGGGAGAA A GAA $A \subset A G A A G C A G G G G G A G C A G A G G G A A G G G G C A G G G A A B A$ AAACCAAGGAAGGAGGGAAAGCCCAGGGAGAAGGGAGGACCA AAAAAGGCCAAAAAAAACCGGCACCAGGGACAGACAAGGCAA GAGCCGGGGGGGAAGACGAAGCCGGGGGGGGGGGGAA$G G A A G$ G G G A A G G G G G A C GAGACAGGAAACCAGAAAACCAACCGAAAA A G G A A G A A A G G G G G G G G G G A CA A A G CAAA A A A A GAAAAA A G A GAAAAAAGGCCGGAGGAGGAAAGGGGGAAGGCCAGGGGAAAA AAAGGCCAACAGAGGACAAAGCCAGGACGGGAGAGAGAAGAA A G G G GA G G GCCGGGGAAAAAAAAGGGACAAAAA GGGGCCGGA G GAGGAAAAATAAAAGAACGGGAAATAGAGAGGCAAAAAGAA AAAGAAAACCCGACCAAGGGGAGGAAAGGGACCCCGGAGGGC AAGCCAAAGAACAAAAAAAGGCCGGAAAAAAAGCCAAAAGGC C G G A A A A A A G GCC G GCCAACAAGCCGGAAGGAGAA GAA G G G A A G G G G A A A GCCTAAGAGGAAAAACAAAGACAAAGGAAGGCCG GAGCCAGAGGGGGGGAAGGACAGGGAAAGGAGCGAACAAACA A GAAAGGAAAAAGAGGCAGAAGACCGGAAGGGGAATTGAAAA $A C C C C G G C C A G G A G A G A A C A A G A G G G A A A A A G A A A A A A A A A G$ G G G G G T T A A A A A A G G G A A A G G G G G A A A G G A G C A G G C C A G G G G A G G G G G G G G GACC G GAAACAGACGGAAGGAAGGCCGAAAGAA ACCGGAAAAAGAAGGGGGGAAAAAACCGGAAAAGGAAAAAAA A A A A A G G A ATTCCAAAAAAAAAAGGGGAAAAACATAAAACCG GAAGAAAAAAAGAGGGGCCCCGGTTGGAACACCAAGGAGGCG
 T G A A A A G G A G A G G A A G G A A GAGGGGAAGGAATTG GAA
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G G G GAAAGGAA $A$ A $A \operatorname{A} G A A G G G A A A A A G G G A G G A G A G A A A A G A$ A A A C CA A G GAGAGAACACCAGGGCCGGAAAGAGGGAGGGGGG A GACAGGAAAAGGAAAGCCAAAAAGCCAGAGAGTTAAGAAAG G G G G GCGAAGGGAAGAAAAGGCCAAGGGGAGGGAAGAGAAAA A G G G G GCGGCCAAAGGGAGAGCCAAAGGGGGAAAAGGGGGGA A GACGGACCGGGGAAGAAGGGAAAAAACCAGAAAAGGAGAAG GAAGGAACCGGGGCCAAGGAAAAGGGGAAGGGGAAAAAAAAA G G G G A A G CACAAGGGGCAGGGAAGGAGAAGGGGGGAAAACAC C C A A A A A G A A G A G A A A A A G TA G A A A G G A A TAA GTTCAA GAC G G G G G GAAGGACGGAAGGGGGAGGGGAAGAAGAAAAAAAGAGA C G G A A G G A G T A GAGGGGGAGAGAAAGGACAAGAGAATAGGGA A G G G G A A A A A A G G A G A A A A G G G A G G G G G G C C G G C C T T G A G G G G G G A A G G A A C G GAGACCGGGGGGCCGGAACCAGGAAAGAAAA A G A A A G GCCGAAAACAAGGGACAGGCAAACCCAGGAAGAGAA
 $C T T G A A G G A A G G G A G G G A G G G G G G G A A G G A A C C A A A A G G G A G$ AAACCCCGAAAGGGGAAAAAAAAAACCAAAAAAGGEACAAAG GAACAGGAAAAGGGGAAGCGAGGAAAGGGGGGGAAAAGGGGG AAAAAAAGGAGGAAGAACCAAAGAACCGGAGGGCCAGCAAAG GAAGGGGCCAGCCGACCGAGAGAGGACGGGGGGAGAACAAAA GCCAAGGGCGAAACGGAGAGGACAAAAAGAAAACCGGGGGGA ACA $\mathrm{C} A \mathrm{~A}$ GAGGGAAGGGAAAGGAAAGGGAAAAGGGGGGGGAGA G GAGGAAGGCCAACCAGGGGGGGAGAAACGAAGGGGAGAGGG CA GAGAAAAAGAACAGGAAAAAAGGGGAGAAGAACCCCCGGG ACAAAAAAGAGGAGAGGGGAAGGAAGGGGGGAAGGGACAAAA
 G G GCCAAGGAAGGGGAGGAGAGGAGAGAAAGAAGAGGGAAAAA A A A G G G G A A A A A A A A A A C C C C G A G GAGGAGGGGGGCAAAGAC CAAGGGGGAAGGGCAGAAAAGAGGGGAGGAGAGCAGAAGGAG AACGAGAAAAAAAAGCCAGGAGAAGAGCCGGAGAAGAAGAAA G G A A A C C G G G G A G A A G G A A A G G G A C G A A A A GCC GAAAA G G G G A GAAAAAGGCCGGAAGGGAGGGGGGAGAAAAAGAAAGGAAAG G G G G G A G G G G G A A G G G G G GACAAAAAAAAGAAAA G GAAACAA AAAGGCAGGAAGGCGAAACACGGGAGAGGAAGGCCGAAAACA A A G G G A A A CAGCC $\mathcal{A} G G G G G G A A G A C A G A A A G C C A G G G G A A A A$ A C C G G A G A G G G G A A A G A G G T T G G A A A A G G A A GAA G C C G A A G A AAAAGGGCCACGGAAAAGGGAAGGGGGAAGGAACCAAAAAAA G GAA $A$ A $\operatorname{A} A G G A A A G G G A G G A G A A A G A G A G C A G G G G G G G A C A G$ G G G A A G A A A G G A A A A G G G G A GAGAAAGAACAA G G C $A$ A GA G G G A
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A A G A G A T A GAAAAAAAGAACAGGGGGGGATTGGCCAACCGCC CAAGAAGGGAGGGGGAGAAAAAAGGGGAAAGAAGGCCCAAAA A A C A A A A A G G G A A G GAAAAAGAGGAAGAGAGGGAGGGAAAAG G GAAAAAAAGCGGGAACAGAACAACGAAAAGCCCCGCAACC G GA GAAAAAAAAGAGGAGACGAACGAGGAAAGAAAAGGAAGBA
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 CA $A \operatorname{GGG} \operatorname{G} A \mathrm{~A} C A A A G G A A A G G G G G G G A A G G G A G A A T G G G G A G G$ A A G G A A GAGGGAGGAGAAGAAAAAGAAAAAGGGGCCCAAACA
 CACAAAAGGGGAAAAAAAACAGGAAAACCGGGGAGAAGAGGG C G G A C G G A A A A C C G G G G G G A A A A G G G A A A A A G G G G A A A A G G G G GAGGAAGAGGAAGGAGAGGAACAGGGAAAAAAGGAAGGCCG GAAGGAAGGAAGGGCAGAAGGAAGGATAAAAAAAAACBAAGA GCAGGAGAAGAGAAAAGCCAGGAAGGAGGAAAAGGGAAAAAC
 $G G G A A G G G G A A A A G A A A G G C A G G G A A G A C G G G G G G A A G A A G G$ GAACCCCCAAAAGCAAAGGAAAAAAAAGAGGAAGGAGCAGGA GAAAGGAGGAAGAAAGGAGAGGGGGAAAGAAACAAGGCAGGG GAAAAAAGGCCGGGAAGAAAAGACCAAGGAGAAAAAAGAGGA GTTAGAAAACAAACCACAATACCAAGAGGAGGAGACAGEGGA $A C C G A A G G G A A G G G A G A T T A C C C A A A G G G G G A G G A G G A G G G G$ A C C G G A A C A A A A A C C G GA G A A C C A A G G G G A A C A G G G G G G G G G $G C C C C A A G A G A A G C A G A T T G G G G A G A G A G G A G A G G A A G G A G A$ AAACCGAGACCAAGAAAGGGGAGGAAACAAGCGGGGAGAGAA A G GAACCAAAGCCAACAAAGGGGCCGGGGCCGAAGCCGAGBA ACCAAGGGGAAGGCAAAAAAAAAAAGGAAAAGGAAAGGGCCG AAAACCGAGGGAGAAAGAGCCGGAGGGAGAAAATTAGGAAAA G GAAA A G GAAAAAAAAAGAGGGACCAAAAGGAAAAGGCAAAG G G G GAAAGGAGAGGGAAAAAGAGACTTAAGGAAAAAGGAGAG G A A A A A A A A A A G GAACCCCGGGAACCCAGAAAAGAAGGGGGG
 G G GAAACGAAAGGGGCGGGGCCGAGAACGGCCCCAAGAAAA G G A G G G G T A A C G G A T C C G GCC G A A GAGAGAAGGAAGG
AAGAAGAGAAAAAACCGGGGGGGGGGGGAAAAGGGGAACCG G G GAA A A A A A GAACCGGGAGAAGAAGAAGAAAGGGAAAACAG GAAGAAGGAAGGGGACAAAGGGGAAAAGGAACCGGGGGAAGA G G GCAGAAAAAGGCAGGGGAGAGCCCAGGAAGAGGAACAAAA C A A G G A A T T G A A A G A A G A G G G G A G A A A G G A C G G G G G G C A G G A AAAAAAAGGGGAGAGGGGGGGGGACGAAGGGAGAAGAAGACA

GAAATAGGAAGGGAAAAAAAGAGAAGGAGAGAGACAAGGCCA $A G G G G C C G G G G A A A A G G G G G G A A G G G A G G A C C C A A G G G A A A A$
 A G GAA A GAAGGGAAGAGGAGGGGCAGGAAAAACACAGAAGGG


 $G C C G G A A G G A A A A A A G G A G A G A A G A A G G G G A A A A A G G A A G A G$ $G C C A A A C G G A G A G T T G G G A G G A G C C A A A A G G G G A G G G G G G G A$ A G G G G G GAAGGAGAGAGCAAGCCGGAAAAACAAAAAAAGGAG
 GGGCCCCAGGACCGGAAGGAAAAGGACCAGGAGACGAAAA GA
 GACGGAGGGGAACAGAATTAAGAGGGGGGCCGGTAAAAAGGG GAGAGGAAAACCCGAGGGAGGGAGGAAAGGGGAAGCCGAGGG $G C C A C G G A A A A C C G G A A A G G G C C G G A G A A G A G G G G A A A A C C A$ CA $\mathrm{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A C A A C \subset A G C A A A G G G G A A C X G G G G G G A G G G A G G$ GAAAAGGGGAAAAAAGGAAGGGGGGGAGGACGAGAGAACACB $G G A G G G A A G C C C C A G G G G G A A G G G G G G A G G A A G C A A G A A A G A$ G G G G GCAA GCCGGGGAGAGGAACAACCGGCCGAAGAGAACCB

 G GAA $\operatorname{GA} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A}$ GAAGAAAAAAAAGAAGAGAAAGACGAAGGGG GAGGAAACCGGAAGGACGGAAAAAAAAAAAAGGGAAGA GGGA GACAAAAGGGGAACCAAAAGGGGGGAAAAGAGGAGGGGGGGA GAGAGGGAGTTGGAGCCGGGAAGAACCAAGGAGAGAAAACAG G G GAA $A \operatorname{GA} \operatorname{A} A \mathrm{~A} A A A A C A A A G A G G G G G G C A G G A G T A A A G G G G G$ GAAGGCCGAGGGGGGGGCCGGAAGGAGGGCAGGAAACCCGGG G G G G G A A A C A A A A G G G A A G G G G A G G G G G G A A G G G A G G A G A G T AGGAAGAGGCAAAAAAAGGGGGAGGGAAGGGAAGAAAAAGGA
 G G GAGGGAAAAGAGGGGAAACAAGGCCAAAAAAAGAAAAAAA A GACCAGGGAAGGAAAGGGCAGACAGAAAGGGGAAAGACAAT
 GAGGGAAACAAGAAAAAAAGGAAAGGCGGCAGGAAGAGBTAC CA GAAAAG GAAAGGAAACCGGAGAAAAGGACCCBAGCGAGGC CAAAAGGACCAGGAGAGAGAGAGGGGGCCGCAAAAAAGGGGG GCCGGAAAAAAGGAAGAAAGAAGGGCCAAGGGGAA GAAAAGA ATTAAGAAAAAAACGGGAAAAAAGGAAAACCAGAAAAGGGGG GAAGGCAGGCCAAAACCAAGAACAAAAAAGGGGGGAGABAAG G G G G G G G A A C C A A G A G GAAAA GAGAAACCAAGGAGAGAGCAC A G GCCAGCCAAGGGAAAGAAAGGACGGGGAAAAAAAAAACAC A A A G GAAAGAACGGGCAACGGGAGGGGAGGGAAGGAACAAGA GACGAAGGAGACCACGAACGGGAAAGAAGGACACCAAGAGAA A G A A A A A A A A A A A A GAGACACAAAAAAGGAAGGAGGAAAAAA GA $A$ A A $\mathcal{A} G G G G G A G A G G A A A T T A G G G A A C A A A A A G A G G A A G A C$ C G A A G A A A A G G G G A A T T A A A A A A G GAACACCAGAGCCACAAA AACAGGAAGAAAAGGGGAAAAAGCCGGGGCAAAGAAAAACCG GAACAAAAGGGGAGGAGGAGGAGAGGGGGACGGAAAAGAAAG GAAAAAAAAAGGGGAAGGGGGAAAAGCGGGGCCGGAACAAAA A A C G A G GCCACGGAGAACCGGGGGGGGAAAGCCAGGAAAGAA G GAGGAAGGGGGGCCGGAGAGAAGAGGGGCCAAGGAACCGGG G G G A A G A A A A A G G G G C C A A G G G G G A A A G A C C G G A A C C G G A A G GAAGAAAGGCAGGGAAAAACCAAGAAAAGAGAGGAGAAACCC $C \subset C A A C A A A G G A A A A G G A A G G G G A A A A G G A G A G G A G A C C A A A$ CAAGGACGGGAGACCGGAGACCAGGGAAGACGGAAAAGAAAG GAAGGCCGGAACCGGGGAAAACCGGGGAACCAAAAGGCAAAA A A A A A A A G G G G A G A G G A A G GA $A$ A $A G G G A A G A A A A A G T T C A A A G$ A G G G G A C A A C C A G G A G GAAAA $A \operatorname{AGGGAAAAAAGGGGGAAAGGC}$

CAGAAGAAGAAGAAAAGCCCCAGACAGGGGATTAAGAAAGGA C G G GAGGAGCCCAAGAGCCAAAAGGGGGGCCAAAAGAACGGG GAAAAAACCAGAAAAAGGGGAAAAAGGGGCCAGAGGGGAACB GAAAAAAGGGGAGGGGGGGGAAAAAAAAGAAGGGGGGAAAAG A A G G GAAAGCCAAAACCAACCAAACCCGGCCGAAGAAAAGAA G G G GAAAGGGACCACAAAGAAGGAGGAAAAAGGAAGAGAGGG
 AAAAAGAACAGGGGGAAAAAAGGCCGGGGGGCCAAGGCAAAG GAAAAGGAAGGGGGGGGCCGGAAAGCAAAGGGGAGAAGAAGA A AACCAGAGGACAAAAAGGAAGGAAAACCCCGGGGAAGGCCA ACCAGCCAACCGGAAAGGGGGAGGGGGCCGAAACAGGGATTG G G G C A A A G G G G G GAAAA A A A A G GAACAAAAGAAAA GAAAACA GAGGGCAATAAGGGAGGAACCAAACACAGAGCCGGAAAGAAG
 A G G G GAAAAAAAAGAGAAAAAGGGGCCGAAAAAAGAAGGGGG GAAGAGGAAGATAGGAAAAAAAAAACCAAGGGGAAAACAAAG GAAAAGGGGAAGGGGCCAAGGGAGGAAAGAAGGAGAAACA GA GAGGGAAAGAGGACAGAGGGAAGAAGGAAACGGAAAGATGAA G G G A A A A A G G G G G G GAAAAAGAACCAACCGGGAAGAGAACC G G G G G G A G G A A A C C G G G G A A A A GA $\mathcal{A} G G G C C G G G A G A G G G A A A G$ A GAGAAAAAGGGAGGGGAAAAGGCAGGAACCAAAAAGGACAG
 A G G G A A A T T A A A G G A G G A A G G A A A A A GAAAA A GAAAAAAA A A A A A G G G G G G G G A A C C A GAAA A CA $A \operatorname{AAGGGACAGAGGAGAAACA}$ G G G G G G G G G G G A A G G A A G GAAAAAC GAACCGGAAAAGAAACAC $C \subset C A G C A A G A G C A A G G G A A G G C A A A C C G G A G C C A G A G A A G G A$ G G GAA A G GAGGAGGGAGAAAAAAAAGAGGGGCCGAGGAAGAA AAAGGAAGGAAAACCGAAGCAGGAAGGGGGGAAGGGGGAAAG G G GAGGCAGGAGACCGAAGGGAAAAAAGGCCGGGGAAAGAAA G G GAGCCAGCACGAAGGGGAGGGCCCCGAAACCCAAAGGGGG G GACC G GAACCGGACCCGGAGGGGAAGAGACACCAGAAACCB GAGGGGACCCACAGGAAAAGGAAGGGGAGCAGAGGGGAAGGG GAAAAAATTGGGGCGAAGAAAAAGGAAAAGGGGAAAAAAGEG
 GAAGGAAGAAACCGGGAGAGGGGGGCCGGAAGGGGAAAAAGB
 A GGAAGGCCAAGGGGCAAAAAAGAGGGAAGGAAGGGGGAAAA A A A A A A A A A G G A A A A GAGGAGAAGGGGGGGGCAGAAAGACAG G G A A A A GCA $\mathcal{A} G C C G G G G A A A A G G T T A G G G G G G G A A G G C A A A G$ GAAAAAACCGGGAGACCCCGGAAACGGGGGAAAGGGGAAGAA A G G G GCC G G G A C A G G G G G G G A G G G G C CAA A A GA A A GAAA A G A A A A C C A A $\mathcal{A} G G G G G G G A A A A G G G G G G G G A A A A A A G G C C A A A A C$ CATAGAGAAGAGAGAGGCCGGCCAAAAAGCCCAAAACAAGGC C G G G G G G A A A C G G A A G GAA $A \operatorname{GAAAAGAAAACAAAGGCCCAGAA}$
 $G C C A A A G C A C A C G A G G G G G C A A A G A A A A A A G A A A A A A A A G A A$ $A C C G G G G A A A A G G G G C C G G A A G G G G A A C A C C G A G A G G G A G B A$ AAAAAGGGGGGGGAACACAAAGAGGAAAAAAGGCCAAAAGAA AAAGGAAAAAAAAAGAGGGAAAGCCAAAAAAAAAAAGAAAAG GCCGGCAAAACAAAGGAGAAGAAAAAGAGGATTGGGGAAAAC AAAACGAGGAAGGGAGATAAAAAAAACGGAAAAGAAGAAAAA A A A C CAA $A \operatorname{A} A A A A G G G G G G A G G G A C C C G G C C G G A A A A A A C A A$ A GACCAACCAAAAAAGGGGCCCCAAGGCAGGGACCGG
A G GAA A A G A GACCAGAGAGAAGAGGGAGAGGGAAAAA GAAA $A$ G G G G G G G G G A A A A G G A GCC G GCCAGAGGGGAAGGAA GAAAA G GACCACAGAGAGGGGGGACCAGGAGCCAGAGAGGGAAGACAG GAAAAAGAAGAGCGGAAAGAGAGACAAAGAGAAGGAAAACCC CAAAAAAG GAAGGGGGGGGGAGGGGGGCCGGGGAGAAAAGGA $A C C G G G G C C G G G G A A A A A A G G G G A C G G G A G G G G G G C A G A G A G$

GAAGGGGAAGGCAAAGAAAGGCCGGAACCAGGGAAAGGAAAC
 C C C G A GAA $A \operatorname{GCG} G C \subset A G G G C C G G A A C A G A G A A C A A G G A A A G B$ G G G G GAAGAGAGGAAGGAAAAGAGGAAAGCGGAAAGGGGAAA ATAGGAAGGAAAATTCATAAAAAAGCCGAAGAGAGCAAACAA G GACC G G G G A G A A C C G G G A G G G A A A G G G G C C A T A A C C C A G A C
 AA $A G G G G C C A G A A A C G A A G A G G A G A A G G G G G G A G G G G A G A A A$ A GAAGGCGGAAGAAAAAAGAGGGAAAACAAACCAAAAAAAAA AACCCCCAGAGAAGGAGGGAACCGGGGGACCGAAAGAGAAGG
 GAAA $A$ A A A A G G G A G A A C G A A A GAGGGAAGAGGGGAAAAAACAG
 GAAAAGGAAAAGGCCGGAAAAAAAAAAAAGGAAAAAGGGGGG G GAGGAGGGAAGGAAGGGGTTAGCAGACGGGAAGAAACAGAG AAAGGGGCCGGGAAAGGAACCAAGGGGAAGGCCGGCCAAGAA A G G G G A A G G G G G G A A C C G G G G G G G G G G A A A A A A A A G G A A G G A $A G G G G A A G G G G G G G G G G G G G G A A A A G G G G G G G G G B A A G A G A A$ AGGGGAAAAGGAACCAACCGGAAGGCCGGAAAAGGGGGAAAA A $G \operatorname{G} A A G G G G A A G G G G G G G G G G A A G G G G G G G G C X A A G G G A A A G$ G G G G G G G G A G G A G G G G G A A A A G G G GAGAGGACA A A A A CA A A G G G GAA A G T T G A A GCCGGGAAAAAGGGGAGCCAAGGAAGAGAG A G G G G A A CAG G G GAACACCGAAAAAGAGAAGAAGAGCGAAGA $A C C G G C C G G G G A A A G A G G G A G A C G G A A G G A A G G C C C C A A A A C$ CAAA $A \operatorname{AGGGGGAGGAAGGGAAGAAGAAAAAGGAAAGCCGAACC}$ CA $\operatorname{A} G \mathrm{G}$ GCAAAGAACCCGGGGGTAAACCAGGGAAGGGGGGCCA A G GAGGAGGAAGGAACCAAGGGGAAGAAGGAAGACAAAGGGG GAAAGCCGAGGGAGGCCGGAAGGAGCCGGCAGAACGGAAAAA $A C C G G C C A A C C A A C C A A G A T A A A G G C C G A A A G G G A A G G G C G G$ G G G A G G G G G A T A A A C G A A A $\mathcal{A} G G G G G G G G G G G G G G G A A A A A G T$ TGAAAAGGAAAAGGGAGGGAGGAAAGGCAAAGAGGAGAAAAC $C G G A G G A A A A A A A G G C C G G A A A A G A A A A A G G A A G G G A A A A A C$

 A C A G A A A G G A A T T A GACGGCAGGAGGGAACCGGGGGGTXAC G GCACCAAAAGAAAGGGGAAGGAAAAGAGGAGAAGGAAAAAAA
 A GAGGGGAAGGGGAAAAAAGGAAGGGGAAGGGGAAAAAAG TA
 GAACCGGAAGGGGCCAAGGAACCGGGGGGAGAAAGCCABAAG G G G GA $A$ A $\operatorname{G} G A A C C G G G G A G C C A A A A G G G A G G G A G G A A G A G A C$ C C C C A C C G G G G A A C C A A G G A A G G G G A A G G G G A A A G G A A G A G G GAAAAGGAAGGAACCAACCGGAGAGAGAAAAAGCACACACAA CACAGGGGAGGGAAGGGGGAAAAGAAGCAGGAAAAAAGAAAA ACAAAGAAAGGAAAAAGAAGGAAGAAAGGGGGGGGABAAAAG

 $G C C A A G G A A G G A A G A G G C C G G G A G G C C G G A G A C G G A A G G A A A$ G G G G G GAAAAAGGGGAACCAAAAAAGAAACAAAGGCCGGCCA AAAGGGGAAAAAAAAAACCGGGGAAAAAAAGGGGGGGAACAA A A A A A GAGGGAAAGGAGCCTAAAGAAGGGGAGAGGGACAGAC AA G G GAAGGAAAAAACAGACCGAAAAAGGAACGAAGAAAAAA CCCGAAGAGAAGGAAAAAAAAAGCAAGGGGAACCCAGAGAGG ACAGGGGAGAGAGAAAAAAGGGGAAGGAACGCCAAAGAAGAA GCAAAAGGGAAGGAAGAAATTGGAGAGAAAAAAAAGGGAAAG G G G A G G A C C G A G G C C G A G G GAAAGGCCCCGGACAA G GAA A A G A G GA $\operatorname{G} C A A A A G A A A G G G G G G G A A G A G A A C A G G A A G G A G A A B A$ A A A A G GACAAA AA G GAAAAGAAACCAACGAGCGGGGGCAAAA G G GA G A A A A A A G G G GAAAAAAAAGGTTTACCAACCAGACGAA

GAAAGAACCGGAAGGGAAAGGAAAAGGGGAGGGGGGGAACCT
 GGGAGCCAGAAGAGGGGAACCGGAAGGAAAAGGAAGGGAAAG G G G G GAAGGGGCCGGAAGGGGAAAACCAGAGAAAAAGAAAAG G G G GAGAAAGAGGAAAGAAGGAAAGGAGAAAAGGGGGCAAAC CAAGGGGCCGGGGAAAAGGGGAAGGAAAAAAAAAAGGAAAAG G G GAAGGAAGGCCAAGGCCGGAAGGAACAGGAGGAGAAAAAA $A C C G G A A T A A A G G G A G A A A G G A A G G G G G G A G A A A A A G G A A G G$ GAGCAAAGGGGAAAGCCGGAGACAAGGCCGGAAAAGGCAACB G G G G G GAA $A$ A $\mathcal{A} G G G G A A G G A A A G A A A G A C A G A A G G G G G G G G G$ GAA A G A T G G G G G G G GAGAGCAGACCCAAAGGAAAACACCGBA

 A G G A A A GCCAA GAGAGAAAGAAGAGAGACAAGGAAGAAAACA A G GAACAGAGGGGGGGGGGGGAAAACCGCGGGGAAGGAAAAG A GAGGGGGACCGGGAAACGAAAGGAAGGAAGGGCAAAAAAAA GAAAAAGCACAAGAAAAGGGGGGGGGGGAGAGAAAGGAGABC AACGAGAAAAAAAGACCGAGGGGAAAAAAAAGGACACTXAAG GAACCGAGGAAGGCAAAAGGAAAAAAGGGAAAAAAAAGAAGG A GACAAAAAGGGGGGGGAAAAAACAGAAAGGAAAAAGAAATC $C \subset C A G G G C A C A A C C C A G C C G G G G G G G A A C G G A A G A G A A G A G C$ A G G GAGGAGGACCACGGAACAGGAAGAAGAAGGAGAGAAAGA GA $A \operatorname{GGG} G \operatorname{G} A A A G G A A G G G G G A A A A A G G G G G A A G G G G C C A A G G G$ G G G G G C C A A G G A A G G A A G G A A G G G G A GAGAGGCATCC G GAA G GAAGGCAAACCACGGAGGGAAGGAGCCAACCAAGGAGAGGBA A G GAA $A \operatorname{GAAA} G A G G A G A C A A A A A G A A G G G A A C A G G G G G A A A G$ GTTAACACAGAAAGGAAAAGGCCAAAAGGACAGAAAGGGACA G G G GAGGAGCCCAAAGGAAGGAACCGGACGAAAGGCCAACCB G G G A A A G A GCC C A A G G G G G G G G G G A C C G G G G G G G A G G A G C A A A G G G G A A G GAAAACCGGAACAAGGGGGGAGAGGCAGAABAGA $A G G C C A G G G A A G A A A G G A A G G G G G G G G A G G G G A A G A G G G G G G$ G G G GATTCAGGAAACGGGAAGACAGAAAAAAGGGGAAAAGGG GAAAAAACCGGAAAAGGCCGGAAGGAAGAGACCAAAGAACAA
 GCAGGAACACAAACCAGAGAGAGGGCCAAGGGGGGGGGGGBA G G A G A A A A $\mathcal{A} G \operatorname{G} G A C G G G G A G G G G G G A G A G G G G G A A A G G G G G G$
 GAGAACGGGGAATCCAAAAGGGGGAAAGGAGAGAGGGGGGGA G G G G A A A G G A A C C C A GACA $A \operatorname{AGGGAAGGGAGCAAGGAAAGAGA}$
 A GAAAAGACGAGAGGAATTCCAGCCGAAAAAGGAGAAAAGGG A G G A A C C A A A A G G G G G G G A GA G A G A A A C C A A G G A A G G A A G G G $A G G G G A A G G A A G G G G G G G A G A G A A A A G G G A A A G G G G A G A A A A$ A A G G G G G A G G A A A A A G GCC C A G GAGGGAAAAAGAA AA GAA GA
 G G G A A G G G G A A A A A G G G A C G GACAAAGGAGGCCGAGCA G G G A G G G G A G G G G G A G G G G A A A A A A A A G G G GAAAAAAAAA A GAA G G A G G G G GA $A C C G G A A G G A A G G A G A G G G C A C C G G G G G G A G A A G G A$ AAAAAGGAAAACCGGGAAACCGGAGGCGGGGCAGAAGAGGAA GAAGGGGGGAAGGACACACGAGAGAAAAAACAAGGAGAAACB G GACGAAAAGGGGGGAAAAAGACAACCGGGGCAAAAAGGGGG A G GAG $\operatorname{A}$ GAACAGGAAGGGGGGGGGCCAAAAAAGGAAGGCAAAA A A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A A A A G G C C G G G G A A G G G G G G G G G G G G G G$
G G G G A A G G G G G G G G C C G G G G A A G G G G G G G G G G G G G G A A A A $G$ G G G G G A A G G G A A A A A A A A A A A A A A A G G G GAA G G GAAAAAA A G GAGGGAAGGCCAACCCCAAGAAGGGAGGAACAGAGGAAAAAA AA $A G A A C G G G G A A G G G A G A A A G A A A G G G G G A C C G G C C A A A G G$ A A A A A A A G G A A G G A A C C G GCC G GAAGGAAGAGAGAGAA GAAA $G G A G G A A A A G G A A G G G G A A C C G A A A G G C C G G A A G G G A A G G G G$

GAACCAAAAAACAGGAGGGGGGAAAAAAGAAAGAGAGGAAAA
 G G G A A A A C CAAAAAAGAGAGAGGAAAGGGGGGGAGAGGAGAA A GGAGCAAAGAAAAGAAAAACCCGGGGGGAAAAAACAAAAGA CAC GAA A A G GAAAGGAGCAGGCAAGAAAGAGAGGGAGGAGGA A G G G G A A A A C C T T G G G G G G A A G G A T G A G G G GA C A G G G G G C C A A A A A A A G A G G A G G A G G G A G G G G G G A A A G G A A G G G A A A A C A G G
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 A A A A A CAGGGGACGGAAAAGGAATAAGCCAAGGGAAAAAAAA CAAAAAAGGGGGGGGAAGGGGAAGGGGGAAGAAAAAAGAAGA AA $A$ A $\operatorname{A} A A A C G G G G A G G G G G G G A A A A G G G A A A A A G G A G A C A A A$ A A G A A A G G G A A A G A A A A $\mathcal{A} G G G G A A A A G G G C X A G A A G G A G G A G$ A A A A G GAAGCAAAGGAAGGCCAAGGGGCCAGAGGACCGGGCA A A G G G A G G G G G G A A A G G G G G G G G G G C C A G A A A G G A A G G G G G A
 A A G A C A A A A A GCA G GAA A A G GAAGGAAGGGAAAGGAGGAAAA A A A A A G G A A G ACCAACCAGGGGGAAGAAAAAAAAAAAGGGGA AAAAAGGGGAACCAAAAAGGAAAGGGAGGCGGAAAAAGGGGA GAAAAAGAGAGAAAACCAGAAGGCCAAAAAGGGGAGGGAGAAA $G C A A A A A A A A A C C A A A G A A G A A A A A A A G G G G A A A A C C A G G G G$ $A C C G A A A G A A G G G G G A G G G C C G G G G G A A A G G G A C A A G G A G A A$ A G G A A G G G GA G GA GAAAAA A A A G GACGGAAAGGGAGGGGAAAC C G G A G G A G A G A G G A G G A A A G G A G A G A A G G A G G G G G G G A A A A A ATTAAGGAAAAAAGAAGGGGAGGCAGACAAGAGGGAGGACAA A A GAGGGGGAGAAGGGGAGAAGAAGCCGAAGAAAGGGAAGGG G G A TAAA $A$ A A A GAAGGAAGAAACCCAAACAAGGGGGAAAGGA

 GAAGAAAAGAGAAAAAAGGCCGGGGAAGAGGAGACCACACAAA A AAAGAGAAAAACAAACAAGGAGCCGACCGGAGCCGGAGGGG GAA $A \operatorname{GGG} G C \subset A C A A G G C A A A G G A A G G G A G G A G G G G A A A G G G G G$
 $G G A A A G A A G G A G G G G A G G A A A G G A G G G C C A A G G A A A A G G G G A$ A A A G G G G A A A A C C A G G A A A G G G G G A G G A A A A G G G G G G G G G A A A GAAAAAAAAAAATTGGAGCAACACGAAGGAGAAAGAGAGGG AAAGGAGAAAAGGCCGGACGGAAAAGGGAAACACCGAAGAAA
 A GAA A A A A A A A G G G A G A A GAGGGGGGGCCAAAACCGGAAGAA A A A A G G G A C G G A G A C G G GACAGAAAGGGGGAAATTAAACCAA AAACCAAAAAGAGAAAAGAATCCCCGAGGAAGGAAACTTGGG GAGAAGGAAAAGAAAGGAACCGAAGGAAGGGAAAAAAAAAAA A G G G A A A G G G G A A G G G G A A G GCCGGGGAACCAAGGGGAACCC C GACC GAA $\mathrm{C} A \mathrm{~A} A \mathrm{G} G A A G G A A G G G G A A A A G G A A A A A A G A A C C C C$ $A C A A G C A G G A A A G G G G G C C G A A G G G G G G C G G C A G G G G G G G G G$ G A A A A G G A A A G G ACCAAAACCAGGGAACCGGAAAAACAAACB AAGACAGGAAAAAGGGAAACCGGGGAGGACCGACAAATAAAA G GAGGGGAAAAGGGGACGGGACAAAGAGGAGAACCAAAAGAC C GAGGGGAGTTGGGGAAGGGAACAGAGAGAGAAGGAAAAAGA A G G G GCC G A G A A GCAAGGGAGGAGGGAAAGAGAAACCAAAAA $A G G A G G A G G G G G G A A G G A G G A A A G A A A G A A G G G C A A A A A A G C$ $C A A G G C C A G A G A A A C C A G G G A G A A A A G A G G G A A A G A A C A G G G$

GAAAAAAGGGGCCAAAAAGGAAAGGAGGAGAAGGGAGGAGAA GA $\operatorname{G} G A A A G A G G G A A A A A A A A G C A A A G G C X A A A A G G G G G G C C G$ ACAAAAAAAAGGACCACAAAAAAAAGGGGGGAAGGAACCGGG GAAAACCGGGAAGAAGGAGAGAAGAGGGAAGAGGGGAAAAAG G G GAA $A$ A $\operatorname{A} A A G A G G G T T G A G A C C G G A A G G G G G G A A G A G G A A G$
 A G G G G G G A A A A A A A A A A A A A A G G G G A A A A G G C C A A G G G G G G A AGGAAGGGGCCAAAACCGGAAAAGGGGAAGGGGAAGGGAAAA A A A G G G G A A A A A A T T A A A A G G G G A A G G G G A A G G A A G G G G A A $G$ GAAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGAA A A A A A G G A A G G A A A A G GAAAAAAAAAAGGAAAAGGGGGAAAA AAA A G G G G GAAAAAAGGGGAAAAGGAAAAAAGGAAAAGAAAA A G GCCAAAAAAGGGGAAAATTGGGGGGGGGGAAGGAAAAAAG GAAAAGGGGAAGGGGAACCGGAAAAAAGGCCGGGGGGAAAAC $C \subset C T T G G A A G G G G A A A A T T A A G G G G A A G G G G A A G G C C G G G G G$ G G GCCGGAAAAGGAAAACCGGAAGGGGAACCGGGGGGCCGGG GAAAAAACCAAGGGGAAGGCCAACCGGCCGGAAAAAAAAAAG G G G A A A A A A G G G GAAAAGGAAAAAAAAGGGGCCAAGAAAAAG G G G G G G GAAG GAACCGGAAAAGGAAGGCCAAAAGGGGGAAAG GAAGGAAAAGGAAGGGGGGGGAAGGGGCCCCGGAAGAAAAAC CAAAACCGGAAAAGGGGAAGGGGGGCCAAGGAAAAAAGAAAG GAACCAAAAAAAAAAAACCCCAGAGACGGAAGAAAAAAGGAA $A A C C A G G G G G G G G G G G G A A G A G G A A A A A G A A A A G G A A C A G G A$
 G G G G G G GAGAAAGAAGAAAGGGGAAAAGAGAACCAAGAAAAA G G G G G A A G G G G A GCAA G GAAAAAGGAAACAAAAAAAAGGCCG GGGCCAAAAGGAAAAAACCGGAACCGGAAGGAAAAGGCAAAAA AAAAACCAAAAGGGGAGGGGGGGAAAAAAGGAAGGAGAACAA AAAGGGAAAAAGGAAAGAAAACCGAAGGAAGAGAGGGGAAAA A G G GAAACCCCAACCGGAAGGAAGGAAAAGATACAGGGAGAG AAACCGGAGGAAACAGGCAGGCCCCGGAAAAAAGGGGGAAAG G GAAAAGGGAAGAACCCAGCCAGGGAAGGAAGGGGAGCCGGG GAGGACCCAAAGGAAGGGACAAAAAGGAAACCCGGAGAAAAG A G G A A C C G G G A A A G G A G G G C C G G GAGGAAACGGAA G G G G G A G
 A G GAAGGCCCCGGCCGGCCGGGGGGGGAAAGAGGACAAAAGA GAAGGGGGAGGAACCGGAAAGAACCCCGAGGAAAGCCCAAAA AAAAAGGCAAAGAACGGGAAGGGAGAGAAGGGGAAAAAAGAA A $G \operatorname{GAA} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A G A C A C A G G G G G G A G G A A G A A G A A A G$
 AAAGGAAGAAAAAAGACAGAAGGGAAGAAGAGAAGGGGGGAAA GAGGGGGAGAGAGGAAGGGAGAGAGAAGGAAGGAAGAAAA GA A G G G G G G G G G GAAAAGAGACCAGGAAGGAAGCCAGGAAACAA G G GCC $C$ G G G G A G G G G G G G G A G G G C A A G A A C C G G A A G G G G G G G GCCGGAAAAAAGAGGGGAGAAGAACGGCAAAAAAAGGGAAAG G G G G G A A A A GACCCCAAGGCCAAACGAGGAACCAA GGGGTTG G G G A A G G G GAA $A \operatorname{G}$ GAAAAAAGGCCGGAAAATTAA G GAAAGGGGG G G G G G G G A A G G A A A A C C A A A A G G G GCC G G G G G G A A A A C C A A G G G G G G A A G GAAAAAGGAGGGAGGACAGGGCCAAAAGGAAAGA ACAAAAACCCCCCCACAGACACCAGGAAGAAAAAAGAGGGGA A A A A G G GCCGGGGAACCGGGGAGAAGGAGGGAGGGGGACGGG ACCGAAAGGAACCCCAGAAAGAAAAAAGCGAACCCGGAAAAB GAAGGGGGGAGGGAGCCGGCACAAGGGAAAAAACAGG
GGCCGGCCGGAACGAGCGAAAGGGGCAACCAAAAAGAAAAA GAACAAGACGGAAAAAAAGGGAAGGAAGGGGGGAAAAAAGAG G G GCCGGAAAAAAAAAGGGGAGGAGGAGGAGGAAGACGAAAG $A G G G G A G A A G A G G A C G G A A G G G A G A G G A A G G G A A A A G C A G A A$ A A G G G A G G G A G A G A A C A G G G G A A GAAC GAGGCCAAA G CA A A A $C C C A G G A A C G G G G A T G G G A G G A A G A G A A G A A G G G G A C G G C C G$

A A G G G A A A G GAGGAAAAAGAAAAGGGGAAAAGGGGCAAAAAG $A G G G A G A G A G G A G G G A G G G G G A G G G G G A G G G G A G G G G G A A B A$ $G G A A G G G G A G G A G G G A G G G A A A G G A G G G A A A G G A A G G G A G G A$ AAGAGAGAAGAAGAAAAAGGGGGCCGGGGCCAACCGGGGGAA GACAGAGGACAAAAAGAGAGGGGGGCAGACCCCAAAGAGAGG G G G GAGGAACCCCAGGGGGGGAACCCCGAGGAGAGAGAGCAA A A G A A G G G GAGAGGAGGCCAAAAAGAGACGAAGGAGAGAGBA $A G G A A A G G G A A A G A A G G A A G G G G G A G G G A A C G G G G G A G A A G A$ A G GCCAAAAGGAAGGAAGGGGAAAAAACAAGGGAAAAAGA GA A GACCGGGGGGAAAAGAGGCAAAAAACGAGGAGGGAAAGGGG G G GAAAAGAAAAAAAAACCGGAAGGAAGGCCGGGGAAAAGGC CAA A A G GCCAAAAAAGGGGGGAAAAGGAAAAGGGGAAGAAAA
 A A A A A A A A A G G G G A A CA $A \operatorname{AAGAGGGGGGGGAAGGCAGGAAGAG}$ GCCAGGAGGAACCAAAGGAAAGGAAAGAGGAAGGGAGGGGAC A A A A G A A C GAGGGA G G G G A GAGGGGAAAGGGGGCAA G G GAAA G $A G G G G G G G G A A G A G G G G G G A A G G G A G A G A G A G A A A A G G G G G A$ A A A G G GAGGGGAGAAGGGGAGAAATGGGAAGGGAAAGACCCG
 GAAGGAAAAGGCCGGGGGGAAGGGGGGACGAAAAACCAAACA GCAGGAAGGGAGAGGGGAAAAAACAAGGGGGCCCACCAAGGA ACCGAAAAGCAAGGGGGACAACCGGGGCAGGGGGACAAAAAAA A A A A G A A A A G A A G A A G G G G G A A G G G C G A C G A G G A T A A A C G A G G G G G A A G A A G A G GAAG GAACCGGCAAGCCGGGAAAAAGAGAA G G G A A A G A C A G A A A G G G G G G G A A A A GGGGC CA GAA G G A A A A A G GACACCAAGGAAAAAGGGATAAAGAGGAATGGAAAACAAAA AAAAAGGAAACGAGGGAAAAGAGACAAAAAGGGAAGGAGGAA G GAGGAAGGGGCAGAGGCACCGAAAGGGGAACGTTAAGAGGA GAAGAGGGGGAGGAAGGGGGGAAAGAAAAAAAAAACCAAGAC AGGCAGGAGGACCAAGGGGAAGGAAAAGGGAGAGACCTXAAG G G GCCAAAAGGGACCGGGAAGGGAAAAGGGAAAGAAAGAGAA G G GCCAAAGAGGAGGGAGGGCGAGAAAGGGAGGGAAAAGGGG A G GCCCAAGGAAAGAAGGGGGCAAGGAAGCCAAGGGGAAAGA G G G G G G GAA $A \operatorname{GAA} A G G A A A G A A G A A G A G G G A A A A A A G G G A A A A$ G G G G G G A A G A G A G G G G A A GCC G A A GAAA A A A A G G GAA G G C C A ACCGGGGAAAAAAAAAAGGAGAGAATTGAGAGGAAAAAGGGG

 C G G GAGGGAAGCCAAGGAAACAAACGGGGAAGAAGAAAACAA $A C C A A C C A G A G G G A A G A C A G A C A G G G G A A C C A A A A A A G G G G A$ A G G G G A A G A A A G GCCGGGGCCGGAAAAGGGGACAA GGCCGGA A G G G G G G C C G G G GAAACAAAAAAGGAAGGAACCAAGAAAAAG
 G G G A A A A G GAA $A$ A A A G $\operatorname{A} A \mathrm{G} G A A A G T A G A A A G A G G A A G G G G G G G$ GAAGGGACAAGCCGGAAGAAAGAGGTTAGAAAAGGGGGAAGT TCACCCAGAGGAAGGAAAAGGAAAAGGAAGGCCAACCCCGAG G G G A G A A G GAGGGGAAGCCAGAGAGAAAAAGGGAAAAAAG GA A G G G G GAGGGGAACAGAAAGGAGAAGGCCGGCCAGGAAAAAA AAA A G G G G GAAAATTCCAAAGGGAGAGGGGAGGGGGGGAAAA A G G A G A G G G G G G G A A A A A A A A G G GAGGGGCACCGGGGAAC C C C G G A A A A A A A A A C GAGGAAGGGAGGAAAACGGGCCGGAGAAG $G C C C A A C A A G G A A C A A G A A A G C C A A G G A G A G A C A A A G G A A G G$ A G A A A A A G GCCGGGGAAAAAACCAAACGGGGCCAAGAAGAGG A A G G G G G A G G A G A G A G G G G G G G G G G A A A A G G G G G G A G A A A $G$ G
 $G C C A A G G A A G A A G A G G G A A G G C C G G A A G G G A G A G G G A G A A G A$ A G G G G A A A $\mathcal{A} G G G A G A A A A A A G G A A C G G G A G G G G G G A G G G G G G$ $A C C G G A A G G A A G G A A A A T T G G G G G A A G A G A G G A G G A A G A A B A$ $G A A C C A A A A G G G G C C G G G G G G A A A A G G G G C C G G G G C C G G G G A$

CCCAAAAGGGGGAGGAGAGGGGGAAAAGGGAGAGGGAGAAAG GAGGAGGGGGGGAAATXCCAGAAAAGGCCAGCCAAGGGAAAA GAAAGAAGGAGAGAGGGGCGGGGAGTAGGAAAAGGAACAAAA A G G G G G GAAAAGGAAGGGGAAAAGGGGAAGAAGGGAAACAAA G GAACGACCAGGGAACCAGGGAGGGAGCCGAGAAGAAAAAGA G G G G GCCAAAGAGAAAGAAGGCCGACAGGAGGAGAAAAAAAG AAAGAAACCGGAGGGCCAGGAGACAAAGGGATTAAAACAGAA A A A A G A A A $\mathcal{A} G G A G G G G G G G G G A A A A A A C C A G G G A A A A A A G G G$ GAAAGGAGAAAGGGAGAGGCCGGTTAAGGGGAAAACAGAGAA A GAGGGGGAAGAAGAAGAAGGAAAGAAGAAGCCAACAGGGGAA A G G G GAAAGCCAAGAAAAAGGACACAAGGGGGAGAAGAGGGA G GACAAAAGCCGGGGAAGGGGAAAAGGAAAAAAGGAAAAAC G G G G G G G G G A G A A G A A G G A A A A C C G G G G G G G G A G G G A CAAAA A
 C G G A A T TAA A G G GAAGGCCGGAAGGGGAAAAAAGGAAGAAAA AAAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGGAAAAG GAAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGGAAAAAGA A G G G G G G G A G G A A A A A GAGAAAAAGGGAACACAAACAAGCCA $A C C A A G G G A A A A G A A G G G G G G A A A A G A A A A A G G C C C C G A A A A$
 G G G A A A A G GCCAAAAAAAACCTTGGAAAAAAAAAAGGGGGGG G G G G G G G G G G G G G T T A A G G G G G G G G A A C C G G G G G G G G A A A A $G$ GAA A G G G G G G G G G A A A A A A A G G G G T T A A A A A A A G G A A G G G G G G G GAATTCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGAACCAAAAAAAAAAAAGAAAG G G GAACCAAAAAAAAAAAAGGAAGGAACAAAGGGGAAGAAAA $A C C A A C C A G C C A A A G A G A A G A G A A A G A G G G A G G G G G A A G A A C$ C G A A A C A A G A G A A GAGGGGCCGGCCGGGGGGAAAACAGAAAA GAGGGAAGGGAGGCCAAGGAAAAAAAAGAGGAAGGAACAAAG GAACCGAGAGGAAGGGGGACAGAAAAACAGGGGGGAAAAAAA A GAGGAAAGAAGGAAGGAAAAAAAAGAGGCCAGCCCCCAGAG A G GAAAAGGAAAAAAAGGGCCGAAGAGAAGGCAGGGGGAAGAA $A C C A A A A G A G G A G G G C A A A A A A A G G G G A G G G G G A A G G G A A A G$ G G G G G A C A G G G A A C C G G A A A A G G C CACAAACAA A A A GA G G G A GAAGGGAGGAAGGGGGGGAAACCGAGACAAACCGGAAGGGGC C GAGAAGAAAAGGAACCGGATAAGGGGGGGAAGAGGGGCGGA A G G G GAAACGGGAAGAGGAGGGGAAGGAAACAAAGCCGAAGA GAGAGAAAAGGCCCCGGAGAGGAGGGAGGAAAAAGAAGGGGA A G A A A A A G G G G A A A A G G A A G C A A C A C C G G G G C A G GAA G G G G C CAAACGGGAAGGCGGATGGAAGAGGAGCAAGGGAAGACCCCG G GAAAAAGGAAGGCCGGAAAAGGAGAAGGGGAGGGAACAAGA A A G G A A G A A A A G G A C G A A G GAGAGGCCGAAAAAAAGGGGCAA AAACCGGAAGGAGGAAACACCGAGGAAGGAAGGAGAAAAAAA A A A A A A A G A G G A A G GCCGGGGGGAGCCGGCCAGAGAGCAACA A A A G A A G G G G G CAAAA A G GACCAAGGAGAGGGGAAAAAGGGGC $G C A G G A A A A G G A A G G A G G A G G G G G G G G A A G A G A G G A A G A T A A$ A GAA $A \operatorname{GA} C A A \operatorname{A} A A G G G A A G A A A A A C A A A C A A A A A C A A G G G G G$ G GCGAAAAGAAAAAACAAAGGGGCCGGAAAGGGGGAGAAAAC ACCAAAAAGCCGGCAGAGGCAAACCAAAAAGAACAGGGGGGA GAAAGGATTGGAGCCCCCAACAGGAGGAAACGGAGAGCCGAG ACCAAGAAGGGGAAAAAAGAGAGAACCGGAACCGGCCAAAAG G G G A A A GAAGGGAGAAAAAAAAACCAAAGAACCGGAACAAGA CA $A \operatorname{T} A A A A G A A A G G G G G A G G A G G A A G A G G G G A A G A G G$
A A A A GAAGAAAAAAGGGAGGGGAACGCGAAGGGGAGAAAGA GAGGGGAAGCCCCAAAACAAAAAGGAGAGGAAGAGATAAAAA $A C C G G G G G G A A A C A A G G G A C C G G G G G G G A G G G G A G G A A A A A A$ G GAAAGGACGAAGAGAGGAAGAAGGAAAAAACCAGACGAGGG GAACCGGGGAAAGGAAAGAAGGACCGGTAGGGGGGAAGAAAA A A A A G A A A GAA $A \operatorname{GG} \operatorname{A} A A G G G A G G G G A G A A A A A A A A G G G A G G G$

AAAGGGGAGAACCGGCAAATTAAGGGAAGGGAGAGCCGAAAG GAAGGAAAAAACCAAGGAAAAAAGGAAAAAAAAAACCCCGGA A A A A A G G G G G G G G A A C CAAAAAAAAAAAAAAAAAAA G GCCGGC CAAGGGGGGAAAAGGAAAAAAAAAACCAAGGGGGGAAAAAAA A G GAA A G A A A A G GAA $A \operatorname{AGGGGGGGGGAAGGAACCGGGGGAAAG}$ GAAAAAAGGGGAAGGAAAACCGGCCAAAAAACCAAGGAAGGG G G G G G A A G G A A A A G G A A G G G G G G A A G GC C A A T T A A G G A A A A G $G G G C C A A G G A A A A G G G G A A A A C C G G G G G G A A C C A A G A A A A A A$ A G G G G G G A A A A A A $\mathcal{A} G G G G G A A G G G G G G A A A A G G G G G A A A A A G$ GAAAACCAATTGGCCCCAACCAAGGGGCCGGGGCAGGAAGGG GAAGGACAAAAGGAAAAGGAGGGAACCAGCAAGTTCCABAAG A A GCCAAGAGAACAGAGAGGAGGAGCCGAAAGGAGCCGAAAA G G G G G A A G G A A G G A A A G G G A GCCGGAAAGAAAGACAAAAAAA GAGACCCTAGGAAGGGGAAGAGCGAAGCATAGGAGGGCAGAG G G G A A A A A A G G G G A A G G G G G G G G A A A A A GA GAA A A A A G G A A A AACGGAGGCAGGGAGGAAAGGGGAAGGAGAGAAGGGAAAAAA G G G A A G G G GAGGGCCGGCCAGAAAACCACGGGAGGAAAAAAA AAAGGCCGGAAGGGGGACCAACCGGGGGAGAAACCGACAAAAA G G G G G C A A GA GAA $A \operatorname{AGGGAAAAGGGGAAAGCACCAAAAGGGGT}$ A GAGGGACCAACAGAAGCCGGGGGGAAGAGAGAAACAGBGAC C GGCCAAAAGAAAGGAAAAAAAAAGGAGAAGGAAGTAGGGGA GAA A G G GAA $A \operatorname{A} \operatorname{A} A A G A A A G G G G G G A A G G G G G A G A A A A G G A A A G$ A A C A A A A G A A A A G G GAACCGGAAGAAAGACAGACCAAAAAAG G G G G G A A C C A A A A G G G G A A GA G A G G A A GAAAAATTGGCAA GA $G C C A A A A G A G G G G G G A A A T G A G G C C G G A A A A C C A A G G A A G G A$ A A A A GAACCGAAAAGAAAGACACGAGAGAAGAAAGGGAGAAA AAGGAAAAAAAAAGGCAGGACAAGGCCAAAAGGCCAAAAGGG
 GAAAGAGAGGAAGAAAAAAGGAGAAGAAAAAGGAGGGAGGAA $A A G C C A T G G G G G G A A A C G A A A A G A A A G A A A A G A G G A G C A A G B$ G G G G G A A G A G G A G A A G A G G A G G G G A A A G G A A C G C C A A G G A C C $C \subset A G G A A A A G G A A G G C C G A G G C A G G C C G G G A T A G G A G A A G G A$ C G G G G G G G G A A A G A A A G G G A G A A C C GAC C G G C C G G C C G G G G C $A G G G G G A A A G A G G G A G G A A G G G G A A G G G G G A G G G A G G G G G G G$ $A C \subset A A G G A A G A G G A A G G C C C A G A A A G G G A G G A A A A G A G A A A G$ GAAAGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G G G A G G A A A G C C G G A A G G C A A GAGGGGGGAC C G G A A A G GAA $\operatorname{G}$ GAGAGGAAAAAGGACCGGCCAGAGAGAGACAGGGCCA G G G G A A A C C G G A A G G A A A A A A A A G G GAAA A GAA G GAACAAAA G G G A A C A A A A A C C G GAGAGAAGGAGGGCCAGAACC GAGAAAA A A A A A ACCCGGAAGGAAAACCGGCACCCCAAAAGGAGGGGGA A A GAACCAAGAGAGGAAAGGGAGCCAGCCAGGGGGCCBAAAG
 GCCGGGGGAGGCAACGAGGGGGGAGGGACAGCAGGGGGGGAG A G G A A G G A A A A G G G G G G A A A A A GAAAGAACAA AAAAA GAAA G $G G A A A G A G G A G G G A A A A A C G G A G A A A A G A G G A A A A A A G G G G A$ AAAAAGGCCAAGGAGAAGGGGGGAAAAAGAAAACCGAAAGGG GAGGGAGACCCGGGGAAGGAAAAGGCGGGGAGGAAAGGAAAG G G GAAAAGAAGGAAAAAGGCCACGGAACCGGGGAAGGGACAG GAGAAAAGGGGCCAAGGAAAGCCCCAGGAAAAACCAACAAAG
 G G GAACCAGGAGAAAAAGGGGAAAAAGGAGAAGCAAAAGAGAA
 G G G G GAGGGGAAGAACCAAGAAGAAGGAAAAAAAAGGCAGGG G G G A A A G A G GAGGGAGGCAGAAAGGCCGGGAGGAAGAAGGGG G G G A G G G A A G G C C G A G G A G G G G G G A G G G G A A G G A G G G A A C A G A G GAACAAAAGAAAAACAAGGGGCAGAAAGGGGAGAAGAABAA CAC GAACAAGGAAAGCCAGTTGGAGGGAAAAGGGGAAGAAAAG GGGAAGGGGGGAAGGAAAAAAAAAAAAAAGGAAGGGGAAGAA

AAAGGGGGGAAGGAAGGAAAACCCCAAAAGGAAGGAAGAAAG GAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A A A A G G G G G G A A G G G G C C A A G G G G A$
 C G G G G G GAAAACCAAAAGAGGAAAAGGAAGGAAAAAAGGCCA GAAACAGAGGGAGGGAAAACCAAGGAGGGCACCAGAAAAGAA A G GAAA A $A \operatorname{AGGGAACCAAAAGGCCAAGAAAGACAAAAAGAGGA}$ AA GAACCAAAAGGAGGGAAGAACGACAGACCAAGAGAAAAAA AAAGGAAGGAAAGAAAAAAGGCAGGGGAGGGGGGGGAAGAAC C G G A A G G G G A A G G G G G G A A G A G G A A A A A C A A G G G G G A A A G G A A A A A A C A A A A A A A A A A A A A A GGGGGACAGGAAGGGGAAAAA A G GAA $A \operatorname{GAA} A A A A A A G G G A C C C A A A A A A A A A C C G G G A G G G A A$ GAGCCGACAGGGGCCAAGAGACAGGAAGGAAAAAAGGGAAAAA $A G G A G G G A A A G G G A A A A G G A A G G G G A A G A G A G A A B A C A G G G G$ G G GAAAAAGGAACGGCCAGGAGGAGAGGAAAAGGGAAAAGAG GAAAGAAAAAAGGAAAAGGGGAAAAAAAAAAGGGGAGCCCCA A G GAAAAAGGGAAGGACGGGAGAGAGAGAAGCCAGGGAAGAAA G G G G A A A G A C A A G A GAA $A \operatorname{AGGGAA} G A C C G G G A A G A G A G A A G G G$ GAGGAAAAGCGGGAACAAAGGGGGGAAAAAAGAAGGGAACAG $G G G A G A G A A G G G G G G A A A A G G A A A G G G A G G G C C G G A C C A A A A$ GAAGAAGAAGGAAAGGAAAGAAGGAAACCAGACCCGAAAGGA GATAGAGGAGAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGGGAAGAAAAAAGAACCCAGAAGAAGAGGAGACGGC C GATAGGAAAGAACAAGAAAAGGGAAAGGAAGGAAAACCGBA GAACCCCGGAAGGAAGACCAACCGAGGGGGGAAAACCAAGAG A G G G A C G A A G G A C A A G G G G G G G G A GAGGAGGGA A A G G A A A G G
 G GACAAGGGAAAACGCACCAGAAGGCCAAGAGCGAGGGGGGG G G G G GAGCAAACCCGCAAAGGGGAGGAAAAAAAAAAAAGCCG GAGAGCAACAAGAGAAGCCATAGCACAACAAAAAGATAATTG A GAGAAAGAAAAAGAGGAAGGAAGGGGGGAAAAAAAAAAGAA $A C C A A G G G G A A A A C C G G G C A A G G G A G G G G A A A G G G A G A A A A G$ GAAGAGGGGGGGAAGTTAAGGAGACAGCAGGCCCCACGACAA GAGCAAAGGAGCGAAGAGGAATTCCACCAAAAGCCCCAAAGG $A G G C C A G C C G G G G G A G G A A C C A G C A A G G G C C G G A A A A G G G G C$
 A A GAA A G A A $\mathcal{A} G A A A G G G G G G A G G G A G G G G A A G G A A G G C C G G G$ ACAGGAAGAGCGGGAGAGGCCGGGGTTGGCCGGGGGGGAAAG ACCTAACAAGAGACAAGGGGAAAAAAAGGGAGAAAAAGGGGG

 G G G G G A A A A GAAGAATACCAAGGAGAGAAAGGAAAGAAAAAA $A G G A T A G G A A G G A A C G G G G C C C C G G A G A G G G G G G G G A A A A G G$ A GAGGGGGGGGGAGAAGAGAGGGAAAAAAGGGGGGGAAAAAA A A GAGGAGGGGAAAGAGGGGAAAGAAAGAAACCGAAGACAGG GAGGAGGCAGAGGGAAGAACCAAAGGGAACCAACCAAAAAAG A G GAATTAATTGAAAGAAAAGAAGAAGAAGGCGAAAGAATTA A A A A A GA $A \operatorname{AGGGGGGGGCCGGGGGGAAAAGGAAGGGGGGGAA}$ AAAAACCAAGGGGGGGGCCCCAGGGGGAGAAAAAAAAGGGGA CAACCAAAACAAGACAAGGCACCGGAGAAAAGGAACCGACAAA ACAAAGGCCGAAGGGAAGGGGAGGAAGAGAGAGAAAGAAGAA AAAGGGGGGAACCGGAGAGAGAACCAGCACAGGAAAACAGAA A A G G G A C G G G G G G A G G G CA A A G G A A A G G GAA A GAA A A G GAA A GAAGGGGCCAAGGGGGGGGCCCCCCAAAAAAAAAAGG
G GCAGAGGAGCCCAGGGGCCGGGAGGAACCAACCCCCCCCG G G A G G G A G A G G A G A A G A C C G G G G G GAAAAAA A A G G CAAA A A G G G G G A T T G A GAGGGAGGAAGAAGGGAAAAAGAAAAAACAAAA A G G A $\mathcal{A} A G G G G G G G A G G G G G G G G G A A A A A A A A G G A G A A A A A G A$ ACAAGGGAAAAGGGGAAGAATGGAGACGGGAAGACAACAACA AAACCCCAAAAAAAACCAAGAAGGGAAGGGAGGAAAGAAAAG

A G G A A C A A A A G A A G G G GAAAGGGGAAGGACCGAAGATGGGGA GAAGAAGGAGAGGGGGCGAGGCCAGAGGAGAAAGGGAAAAAG GAAGGAAGGCCAAAGAGGGGAAAAACCGGAAGAAGAACCCCG G G GAGAAAAACAGCGGGAGAAAAAAAAAACCGGGGAAAGACA GAGAAAAAGAAGGAAAAAAAGGAGGAAGGAAAGAGGGAAGAA A A A A A A A A A C C C CA A G G G G G GAGGAGGGAGGAAAAAA G A A A G G GCAA C G G G A G A A A A A A A G A A G G G A A G G G G G A G G G G A A G G A A $G$ $A C C A G G G G A C C T T G G G A C A C A G A G G C C A A G G A G A A A G A G A A G$ G G GCGGACCGGAGGGAGTTAAAGAGGGGAGAGCCCGAGAAAG G G G G G G G A A C C G G G G G G G G C A A A G G G G G G GA $\operatorname{A} G A A G G A G A A A$ GAAGGAACACCGAGGAGAAAGGAGGGGGGAAGGAAAGAACCB A G GCCTXGGGGGGAAAGAAGGGGAAAAAGAAGGAAGAAAAAA A A GACGAAAAAAGAAAAGGAAGGGGGGGAGGAGAAGGABAAG $G G A G G A A A A G G A G A G A A A G A A A G C A G G A G G C G G G G A A A A A G B$ G G G GAA ACCGGGGAAGCGAAAAAGAGAAAAAGGAAGGGBAAA ATTAAGGGGGAACAAAGAGGGGGAGAAGAGGAAGGAACAAAAA AAGAAAAGGGGCCAAGGAAAAAACCAACCGAAAAAGAAGAAT TAACAATGGCCAACCAGAGGGAAAAGGGAAGGAAAAACAAAA A GAGGGAAGGGAAAGAAAGGAGGAGGGGGCAGGAACAGACAA A G G A A A G C A A G A A GAAA A G G GAA $A \operatorname{AGGAAAAAGAGGGAAGAGAA}$ A G G A G A A A A A C G G G A A A T T A G G G A A GAG GAGGGA GAA G GA G G GAAGGGGGGAAGGGGCCAAAAGGGGAAGGAGAAGAAACCCGG G G G A A A A A A G G G G G G G G G G G C G G G A A G G G G A C C C C C C G A A G G A A GAACCCACAAGAGAGCCAAAAGACCCAGAGAGAGAAAGAA G G G G G A A G G G G A A G G G G C CAA A GAAAAAAAGGGAGGGGAAAAA TGGGAGAAAAGAAGAGAAAAGAAGGGGGAGGAGAAATAAAAG G G G G GAAAAGAAACCAAAAAAGGAAGAAACCAAAAACGAAAG GAGAAGGGAGAAAGGGGAAGGACAGCCGAGAGAAAAAGGGGG G G G G G G GCCAAGGCACCGGGAAGGAAAAACCCAAGCCGGAGG $G G G A A C C G A A A C C G G G G G G G G A A G G A G G A A G A G C G A A A A C A G$ A GAGAGGGAAACAAAAAGGAACCAGGGAGTTGGGAGAGAGBC CAAGGAAAAGAAGAAACGAAAGGGGGAGGAAAGGAGGCAAAA
 A A G A A G G A A A G CAA $A \operatorname{GGGCAAACAGATAAAAAAAAGAAGGGGG}$ C G G G G G G A A C C G A A A A A A A A A G GAATTTXAAAA GAGAGGACAA A A GCCAGGGGAGGGGGGAAGGAGGGGGGGAAGGAAAACCGGG GCCTAAAGAAAGAAAGGAAGGAAAAAAGGCAAGGAGAAAAAA CAAGGAAGAACAGGGAAGGCCACGGGGAAAGGGAAGGGGAAG A G G A A A A A A G A A C G A G G G A A G G G A G G A G G C CACA A A A G GACA GAAAAAAAAAGGAGGGGAACCGGAAGGAACCAAGGAAAAGGG GAAAAGGGGAAAACCCCGGGGAACCAAAAAACCCCGBAACAA A G G G G A A G G A A A A A A A A A A G G G G T T A A A A A GGGGGGGAAAAA G G G GCCAAAAGGAAAAGGGGGGAAGGCCGGGGGGAAGGGGGGA AAAGGGGGGAAGGAAAAAACCGGCCAAAAGGGGGGGGGGTTA $A C C G G A A A A C C A G G A G G G G C C G G G G A A G G C C G A A G G A G A A A G$ A A A G A A A A A A T A G A GAGGAAGCCGGAAGGGGGGGGGAACGAA A G A A A G G G GCCGGAAGGAAGGGGCCAAAAAGAAGAGGGAAAG G G GAA A $A \operatorname{G} G C C G G A A A G G A G A G G G G G G A A G G G A A A G G G A A A A$ $A C C A A G G A A G A G G G A G A A G C A A G G A A C G A G A G G G A G A A A A A G$
 G G G G G GACCAGAAGGGAGAAGCCAAGGGAACAGGGGGGGCCA A G G G G A A A A A G G G G GAAAA A $A \operatorname{A} A A G A A G G G A G A A G G A A G A A C A$
 G G G G G A A G G A G G G C C A G A A A A G G A A G G G G G GA G G G G G A A G G C C G GCCGGGAGGAACCGATTAAGAACAAAGGGGGGGAGGAACA GAGAGAGGGGGCCAAGGAAAAGGGGAAGGAAGGAAAAAAAGA AACGGGGACGGGAAGAGGAAAAAGGCCGGAAAAAAAACBAGA A G G A G G C G A G A A A A A G G G G G GC C A A GC GAA A G G A G A G G G A A $G$ G G GAGGGCCGGAAAGGAGGAGGGAAGGAACCGACAAGGGGGA

AAACCGGAAGGGGAAAAAGTTGGAGGACCAAGGGGGGAGAAA C C G G G G GCCACAAACGACAAAAGGGAAAAAAAGA GAGBGAAC CTACAAAACACGGGGAAGGAAAAAGCCGGGGGAGGAGAAAAC AAAGAAAGGAACCAAGGAGAAGGGGAAAGGGAACCCCAAAAG GGGCCAGACAAAGACGAAAAGAAGGGGGGGAAACCGGACAAAA $A C C G G G G G G G G C C A A C C A A C C A G A G A A A G A A G G A A A A A A C G G$ GCAACGACAGGGGAAGAAGAAAAAAGGAAAGCAAAGGGGCCG $G C C C C A A A G A A G G A G G G G A G G A A A G A G G G G G C C A A C C A G A A G$ G G G A A G G G A G A G G A A A A G G T T G A A A A A G G A A A G GA GA G GAAA AAGAAAGGGGGAAGGCCGAGGGAGGGAGAGGAAAAAAAACAA A G GCCAAGGAAGGGGGGGGAAAGAAGGAGGAAAGGGGAAAAA AAAACAGGACAGGGAGAAGAAGGACCCGGAGGGAGAGAAAAA GAGAAGGAAACGAGAAAAAAAGGAACCAAGGGGCAAAACABC $A C A A G G G G C A C G G A A G A G A G A G A C G G G A G G G A G A G G G G A A B G$ GAGAAGGAAAGAGGAGGGAAAAGAAAGAAAAAAGGCCAAAAG GAAAGCAAGAGGGAAAGAAGGAAGGGAAGGGAAAGGGCAGBA A GACAAAA GAAGAAAGGAAAAAAAAGGAGAGCCAAGAGGCCA GTATTGCAGAAACGGGGAAAAGGAAGGAAATGGAGGGAGABA GAAAGGGAGAAAGGGGGAGCCGGAAGAAAGGCCAAAGAAAGG A A A A A G G G G G G A G A G G A G G C G A G A A A A G G A A G A A GAAA G G A A A A A GAGGAAGAGAACAGGGGGGAAAAGGGAGAGGGAAGAGAA GAGCCGGGGAAGAGAAGGGGGAAGGGGAGAGACAAGAGGGGA $A G G G G A A G G G G A G A A G G G A A G G A A G G A A G A A G G A A G A A A A G A$ A A A G G A A G G G G G G G A C C C C G GAGGAAAGGAAGGCCACA GA G C A G G G A GAA $A \operatorname{GA} A G G C \subset A A A A G G A A G G A A A G G A G A G A A A A A G G G$ GACCCGAAGCCGGGAGGAGGGGGGGGACCGGCAAAAAGGCCG GAAGGAAGGGGAACCGGAAAAGAGGAAAAAAGGAACCAAGGC C C C G G A A C C A A A A A A G GAA $A \operatorname{GGGAGAGAGGGAAGAGGAGGGGA}$ A G G G A C A A G A A G GC C G G GA A A G GAGGGGGAGGAAAGGGACAA $G C C G G A G A G G G G A G C A C G A G A G G G G A G G A G G A A G A C C G G C C B$ GCCGGATAAAAAAAACCGGAAGAGAAAGGAAGGGGCCTXGGG GAGGGGAGGGGAGGGAAAGCCAAAGCCAGGAAAAATTAAAAA A G GAA $A \operatorname{GAAAAA} G G A A A A A G A A A G G A A A A A A A A G G A A C A C C C$ CAAAACCAAAAGAAGAAGAGGAAGACAAAGGGACCAGEAAAA A G G G G A A A A A A G G A A A A A A A GA A C CACCAGGCGGGGGGAGA G A G G G G A A G G G G A A A C A G A A A A C C A G G GAGACAAA GAAA A CA A AACGAAAGGGGGGAAGGGGCAAAGGGAGAAAGGAAGAAAAAG AAAGGAAAAAGGAACAAAAAGAAAGCAGAAAAAAGGAA GCAA G G G A A G G A A A A G G A A G A A G C A G A A A G G G G G G G G C C G G A C A A G

 GAGCCGGGGCACAGAAAGAGGAACGGGAAGAAAAGGAGGGGA
 CAAAACACCAAGGAAGGGAAAGATAAGGGGGAAGGAGGAAGG GACGAGGGGGGGGAGAAAAGGAACCCCGAGAAGAGAAAAGCG GAGAGCCCAGGAAGGGGAAAAACGGAAAAAAAAAAGGGAAAC
 A A GAGGGAGCAAAGAGGGAAGAGGAAGAGGAGGAAGGGAAGA A G GAAAAAGGAAAGGGAGGGGAAGGGGACGGAGAAAAAAAAA A A GA $\operatorname{A} G A A A A G A A C G G G G A A G A A G A G A A C C A A A A G G G G G G A T G$ G G GAACCGAAAAACAAGGGGGAAAAGGAAGGCAAGGAAAGGG A A GAA A G A GAC $\mathrm{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A A A A T T G G G A G G G A A A A G G A C A G G C$ AAAAAGAGGAAAGGGAGCAACAAAAAAGAAGACAACG
$C \subset G A G G G G A A G A A A C C G G G G G G G G G G A A A A G G A A G A A A A A A$ G G G G G G A C C G G A A G G G G A G G G G G G A G G A A G G A A A C A GAA A G G A G G A A G G G G A A G G A A A A T T A A A A A GAGAAAGAA G GAAAAA GA ACAAAAAAGGGAAGATTACCCGGAGAGGACCCAGGGAAAGAAA A A G G G A A C A C A GACCAAGGAACAAAGAAAGGAGBAAGGAAAA $A A G C C A G G A A A G G A A G G G A G G A G G A A G G G A G A G G A A A G A A G G$

GAGAGAGGACCCCCCGGAAGGAAAGGGAAGGAAGGAAGGGAG GAAAAGGGGGGGGAGCCGAGAGGCCGGGGGGGGAGAGGAAAA A AACCAAGGGGGAAGCCAAAAGAAGCCGGAAAAAAAGGAGAA CAGTAAAGGAAAAAAAACCAGAGGAAGAAAACCGGAAGAAAC AAACCCACCATAGGGAAAGAAGGAACCAAGGAAGGGAGGGGA A A GAAAAGGAACCCAGGGGCCGATAGAAAGGGGCCAAGAGGA A A A G A A A G GAA $A \operatorname{GAAAAAGAGGGGAGAGCCGGAGGAAGGACAA}$ CAAAGAAGGGGAAAAAAAAAAAAGGAAGAAGGAAAAGAAAAG GAAACGGAAAAAAGAACCCGGGAAAAAAAAAGGGAAGGAAAA $C G G A C G A A A G G G G G G C A G G A G A A A G G A A A G A A A A G G A A G A G G$ G G G G G G GAGGACCGGGGAAAGGAAGAGAGAAAAAGAGAAGAA $A A G G G A G A G A A G G G G A G A A G A C A G G C C G G A A G G G G A A G G G G A$ A A A A A A A G GAAA $A \operatorname{AGGAGAAAGGAAAAAAAGGCCAAGGAAGGG}$ G G GAGAGAGGGAAACAGGACAGGAAAGAGGAAACAGACABAAG AGAAAAAAAAACCAAGGAAAAAAAAGGGGGGGGAAGGGGGGG G G G G G G G G G G GCCAAAAAAACCTTAAGGAGGGAGAAAAGAAAA A GGCCAAACAAAAAAGGAAACGACAGGAAGGGGTTCAGAGAG A A A A G A A G A A A A A A A A A GAAAAAGGGGAAAAAAAAGG GACAA $A G A A A G G A A A G A G A A G A G G G G A A A A G G G G G G A A A A G G A A A A A$ GACGGGGAAGGAGGGGACGAACCAGGGGGGAGCAAAAGAAAA AAACCAAAAGAGAAAGAAGTTACAGGGAACCAATAGGAGGGG GAA $A \operatorname{G} G A C A A G G G A G G G G G A G A G G G A G A A C A C A G A A G G G G G G$ GAAGGAAGGGGGGGGAGGGAAGGCACCAGGAAAAAAGAGGGA C GAAA $A \operatorname{GAAAAAGAGAACACAGGGAAGGAAAAGGGGAAAAGGG}$ A A A A A A A A A G G GA GAG GAAGGAAACGGAAGGAA GAAAAGGGG GAAA A A GAAAGGAGGAAAAGGGGGAGGCCGGAAAAGGGGAGG GAAGGGGGGGAGGACAAGGGGAAAAAAAAAAGGAAGGAAGGG A A G A A G GCCGAGGAGGGAAAACCAAAAGGAGAAGGGGCCCCA GA $\operatorname{G} A A A A A \operatorname{AAAAAA} A \operatorname{A} A G A A A A A G G G G A A A A G G A C A G G G G G A$ CACGACCCCCCAAGGGAGAGGAAGGAAGAAAGGGGGAAAGGA GAGCCAAAAAGAAAGGGGACCAAGGAGAACCAGGGGGGAAAA AACGACCGGGGAAAACAAGGGGAAAAAAAAAAAGGAACAAAA GAGGGAAGGACGAAAGGACGGAGGGACAGGGGGGAAGAAAAG GAGAGAGAAGAGGGGGGAAGGCCAACCGAGGAGAGAAGAAAG $A G G G G G G A G G A G G A G G G G A A A G A A A G A A G A A G G A A A A G G G A A$
 G GAGAGCGGAGAGGAAGGAGGAAACGAGAAGGGGAAAGGGGG G GACCGGAAGGAACCGGAGAAGGAAAGGGAGCCAAGAAAGGG GAAGGGGAAAAAAGGGACCGAAGGGAGGGACAAGGGAACAAC CAAGAAACAACGAAAAGGGGGCCAAAGCAAGAAGGCCAAGAA GAGAAAAAAGGGAGGAAGAGGGGGAAAGGAAAAAGAAAAGGA $A C C A A G G G G A A G G A G A A G A A G G A A G A G G G G G A G G G G A C A G A A$ G GAACGGAAAAAAGGGGAAAGACAGGGCAAAGAAAAGAAAAA A G GAAAAACGGAAGGAGAGCCAAAAGGAGAGGGAGGGAAGAA A A GAGGGCATTAGACCCCGCCGAAAGGGGGGAAGAAAGGGGG G G A A G G A C C A G G G G G G A G G G A G G G A A A G G A G G A A A A G A G A G A ACAGGGCGGAGGAGGGGGGAAGGGGGGCCAAAAGGGGAACAA AAA A G A A G GCCAAAAAAGGAAAAGGGGGGGGGGAAAAGAAAA AAAGGCCAAAAGGGGGGGGGAAAGGGGCCACAAAAAAAGATA GAGGACCAAGGGGAAAGAAAAAGAAGGAAGGAACCAAAAAAA
 $A G G G G G G A A G G G A G G G G G G G G G G A A G G G G T A G G A A A G A A A A G$
 GAAAAGAGGAAGGGGGAGGGGGGGACAAAGGAAGGATAAACC AAAGGAAGGGGGAAAAAAACCAGGGAACCGAGGAGGGGAAAG GAACCAACCACGGGGGGAGGGCCCCACGAGGGGAACAGAGCG A G G G G A A CCGGAAAAAAAAGGCCAAGGAAAAAAAAAAAACAC C GAAAAAGGAACCGGGGAAAAAAGGGGGGAAAACCGGGAAAC AAGAGAAAGAGGAAAAGCCTAGGCCAAAAGGGGAAAAAGAAG

G G GAC $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A G G A A A A G G A G G A G G A A G A A A C A G G A$ GAAGGAAAAAGGGCCCCAAACBACAGAGAAGAGGACCGGGGG GAGGGAGAGACCAAGGGAGAGAGAAGAAGGAAAGAAAGAAAG A G G G GAAGGCCAAGGGAAAGGGAGAGGCCCCAAGGACGAAAA A G GCCGGGAAAAAGGGAAACAGAGGAAGAAAAGAGGAGBCAA AAAGGGGCCAAACACCAGAGAAAAAAACCGGAAGACCAAGBC C G G G G A A G G A T A G G G A G G G A G G A G G A A A G G A A G G A G A C C G A G AAAAACCCCCCGAAGGGGGGGGGCCAAGACCAAGGAAAAGGG G G G A A A A G G G G A A G G G G G G A A A A A A A A A A C CAA A A A CA G C A G A GAGGGGGGAGAGAAAGGACAACGAGGCAGACCAAGAAAGGG GAACCCCGGCAAAAAAAAAAAAAAAGGAACCGGAAGGAAAAG
 $A G G A G G G A A A A G G A G G G A A G G A G G G G G C C G G A A A G A G A G A G G$ $G C A A G G G A A G G G G G G A A A A A G G A A G C C C C A G G A G G A G G A G G A$
 GAAGGAAGACAAGGGGGGGCCAAAAAGAAAATTCCGGAAAAG GCCTTGGGAAGCCGGGGTAAAGAAAGGAAGGGGAAAAGACAA A G GAAAACCAAAACCGGGGAAAACCGAAAAGGAGBAAGGGAA

 $C A C A A C C A G G G A A G A A A G G A A G A A A G G T T C C G A C C A C G A G G G$ G G GACCCAAAAGGAACCAGCCAAAGGAGGGAGGGGGGAAGAA A G G A C G G G G G G G G G G G G G G A G G G A A G G A A C C T A A A G G A A A G A A G G G G G A A A C C A A A A G G G G A GAAAAAGACCAAGGACTTGGGAG A A A G G GAA $A \operatorname{A} A G G G G A A G G A A C G A A G G A A A A G G C C A G A G G G G$
 ACCAGCAAAAAAGGAGGAAAAAACACAAAGGGGGAAGAAACA GAAAGAGAAGGCCAGGGGGAAAAAGCCAAGAGGACCAGGGGG G GAA ACAAGGGAAGAAGGGACAGAAGAGGAAAAGGCAGAAAA
 G GAACAAGGAGGGAAAAAAAGCAGAAAAAAGAGGGAAGAAAA G G G G GACCAGACCGACAGGAAGGAGAAGGGGGGGGGGGGGGG AAGGGCCGAGGAGACGAACCCAACCAGACAGACAAGAGGGAA G G G A G A A C C G G A A G G C C G A GAACGGGGAGGGCCGGTTGAGAC CAGGGGGGGCCGGGAAGGGAAGGCCGGCCACCCCAAGGBACC C C C A G A C A A A A G G G G G G G G G G G G G G A A A A C C G G A G G A A G A G A A G G GAA $A \operatorname{GGGA} A A G G A A A A A A C C G G C A A G A A G G G A A A A G G G G$ GAAGGGGCAGAGAAGAGAGAGGAAGGAGGGGAAAAAGGAGGG G G G A A GCAGGGCCCAACAAAACGAAAAGAAGAGGAGAAAGGG GAAGGAAGGAAGGACAAGGAAGGAGGGGGAAGAGGGAAAAAA $A G G C A C C A G G A G A A G G A A A G G A G A A C C G G A A G G G G G A A G C A G$ G A A A A A A G G A G A A A A A A G G A G G A A A A G G G A A T T C G G G A A C A G A GAAACCAAAAAACCGGAAGGAAGGGAAAGGACAGAAACAGA C GAGACAAAAAGGGGAAGAGGAAACGGAAACAGAAGGGAC G T TAGGGAAAGCAGGAAACAGAGGGGGAACAGAAGGAGGGAGGG A G G G G G G G GAAACAAAATTAAAAAAGGCCAGGGAGBACAA GA $A C C A A A A A G T T A A A A A G A A G G A A A A A A G G A A G A C C G G G G G G G$ G G G G G G GAAAAAAGAAAAAGGAGAAGGAGGGGGGGGGAAAAC A G G G GCCAAAAAGGAAAGGGGGGAAGGTTGGCGGGAAGGGGG A A G GACCCCAGACAGGAAGGAAGGAGAGGGGAGACAGGAGAA G GAGAGGACCAAGCCGAGAAAGGGGAGAACCGGAAGAGAAAA AAAGGAAGGAAGAAGGGGAAAAAGGAGGGAACAGGAGGAAAAG

G G GAGGACGGAAAGGAAGAGGGAGGGAGAGAACAGGGAAAG GAAAGACGGGGGGGGCCGGGGCCGGAGGGCCGGAAAAAAAGA G A A A A C A G A T T G A G A G A A A G G G G G G G G G G G G C C A A A A A A A G A AAGCCAAGAAAGAGGCCAATTGGAACCAAAGGGAAGGGGGGG GAAGGAAGGGGAAAACACCGGAAAAAAGGGGGGGGAAAAAAA $A G G G G G G G G A A A A A A G G G G G G A A A A A A G G A A A A G G G G G A A A A$

AGGCCCCGGAAAAAAGGCCGGAAGGGGGGGGGAGGAAAGAAG GAGGGGGACGAAACCGAGAAAAAAAGAAACCACGGGAGAAAA GAGCAGAATGGAGGGGAGGACGGAAAAGACCAAGGAAAAAGA GACGACGCAAGGGGAAAAAAAGGGGGACGAGAAAGGACCGGA A G G GAGAAGCCCCGGCCGGAAGGAAAAGGAAAAAGGGGGGGA AAAGGAAGGCCGGGGCCAAGGAAGGGGCCGGAAGGGGAAAAG GAAAA A $A \operatorname{A} G \mathrm{G} A A A A G G G G G G G G G G G G G G G G A A G G A A G A A A A A G$
 GAAGGAAAAAAAAGGAAGGAGGGCAAAGGAAGGAAGAAAAAG G G G A A G GAAGGAAGGAGGGGAGGAAGGAACCAAAAAAAGAGA A G G G G GACA $A \operatorname{A} \operatorname{A} A A G G A A G G G G G G C A G G A C A G A A G G G G A A A A G$
 $A G G G G A A A A G C G G A A G G A A G G G G G A A G A C G G A A A G A G G G C C G$ GAGGGAAAGGGGGAGGGAAAAAAAAAACACCCCAAGGGAAAAG G G G TAAA $A \operatorname{AGAAAAAGGGCCGGAAAAGAGAAAAAAAGGGGGGG}$ AAAGGACGGAAAAAAGAGAAAGAGGGGACGGGGGAACAAGAA CACA $A \operatorname{A} A A A G G G A G A A G G G G G G G G G G A A A G G G A G G G G A A A G B G$ G G G A A A A G G G G A A G G A A G G TAAA A G G GAGGGCCGGG GAA GAA AAGAAGGAAGGGAAAGAAAAGGGAAGGAGAAAAAAAAAAAAG
 G G G G G G GAGAGGGGAAACAAGGGGGACAGGGAAAAAAAACCA A G GAAAGACCCGGAAGGTTAACCGGAAAGGGGGAAGAGACCA AAACCGGAAAAGGGGCCAAAAGGAGGGGGAAGAAAGGGGAGG GAGGAAGCCCAGAAGGGAGGAAAGGAGAACCGGAGAAGAAAG G G GAA $A$ AAAAGGGGGGAAGGCGACGAAAAAGAAAAAACAACCA TCCAAGGACACCCGGGGGGAAGGCAGGGGAAAAAGGGAACCC C G G G G A A G GAAAGGGGAGGAAAAGACAAACCAAAAGGAAAA G GAAACGGAAGGGGAGGGGAGGCAAAGAGGGGAGCAGGAGAAA A G GA GCACAAGGGGAAAAACCCGACAAAAAAACAAGGCCGGA AAACCGGGAAAAAAAGGAGGGGGGAGGAAAGGGAAGAAAGAA A A A A A G G G ACCCCGGCCAGTTAAGGGAGGGACCAAAAAAGCG AAAGGCAAAAGCCGGGGAAGGAAGGAGAAGAGAAAAGAAGGG GAAAAGGAACCAAACGGCCGGGGAAAAGAGGGGAAGGATAGC
 G G GCAGAAGGCCAGGAAAAACAGGGGGGGCAAAAAGGAGAAG GCCGGGAAAAAGGACAAAAAGAGGGAAAAAACCAAAAAAAGC CAAAGAAGACCAACCGGAGAAAAACCCAAGGAGAGGAAGGGG G G G G GCCGGAAGGGGAAAAAGAAGGGGAAAAACAAAGGAGAC CAAA $A$ A $\operatorname{A} A A A A G G A G A A C A G G G G G G A C G A A G G G A A A A A G C C G$ GCCAGAAAGACGGGGGGGAACAACAGGGAGGACACAAAAGCA A A A A A A A G G GAGGAAAAAAAGGACCGGGGGGAAAAGGAAAAC CAGGGAGAAAACCCCAAAGGACAAAAAGAGAAAAACCGGGGG GAAGGGGAAAAGGCCAAGGGGAAACAGACAAGACAGGGGGAA A A A A G GAA A A A G G G G G G G G A A GAAAAATTGCGAGACCAAAA G GAAACAAAAGAGGGAGGGGGGGGGGACGGGGAAGAGGCAGAA A GGCCGAGACAAGGGAAAAAAGAGAAGAGGAAGGATTGAAGG A AC G A T T G GAACCAAAAGGGGAAGAGGGGGAGGCCAAAAA G G G GAAGGAAGAAAACCGGAGGAAAGGGGGAAGAAAGAACCGGC CAAAAAAGGCCGGGGAAAAGGAAAAGGGGCCAAGGAAAAAAA A GACAAGGGGGGGGGAAAACCGGCCCCAGGAGGAAAAGAGAA G GAGGAGGGAAAAAAGGGGGAAAAACCAAGGCAGGAAAAACC CAAAAAAAAGAGGGGAAAAACGGAAAAAAGGAAAGGACAACBG A A A A A G A A GAA $A \operatorname{GGGGAAAAAACCAAGGGGGAAAAGCAAAGGA}$ GAGGGCCGGGCGCACGAACAGCCGGGGGGGGAAAAAAAAGGA AAAGGGGGGAAACGGGGAAAAGAGAGGAGGGGGAGAAAAAAG G GACCGGGGAAAAAAAAAAGAGAGAGGGGCCGGGGCCCACCG
 A G G G A A G G GA G CAAAAA A G G G A A G GAAGGAAGGAA G GAAA A A G GAAA A GAGGAAGGGCAAAGGGGAAAAAAAAAAGGGGGGGGG

G G GAAAAAAGGAACCGAGGAAGGAAGGCCAAGACCGGAAAAG GAAAACAAAAAAACAGAAAGGCAACCCGAGGGAAAGAAAAAA A A GAAA A A A G GAAAAGAAGAAAAAACCCCGGAAAGCCABAAG G GAGGGGAAGAAAGAAAAGGGAGGAGGAAGGGGGGGAAAAAG A G G G GAA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ CAACCAGGGAAACCAAGGGGAAAAAAAAGGG G G G G G A GACTTGGGGAGAAAGGAAAGGCCAAACGGAAGAGAA AAAAAGGAGAAGGGAAAAGAAAAAAAACCGAAGAAAAGAGAA C GAGGAGCCAAGGGGGGAAAACCAGCCGGGGGGGAAAAAAAC C C CA $\operatorname{CA} A \operatorname{A} G A G G A G G A G A A G G G A G A C G A C A C G G G G C C G A A A A$ AAACCCACCAGGAGAAAAAGGAAGGAAGAGAAGCCGAAAAAA G G GAA A G GAAACCGGAGAGAAAAGGGGGGAGCCAAGACAGAAA A A A G G A A A A A A A A A A G G A A A A A A A A A A A A G G G G G G C C G G G G A GAAGGAAAAGAAGAAAGGAGCAGGGAAGGGGCAAAAAAGAAG G G GCC GAAAGGCCGGAGAAGAAGAGAAAAAGAAAAACAAAGA G GAAAAAAAAAGGAAGGGGAAAAAAAAAAAAAAGGAAAAGGA AAAAGGAAGACGAGACCAGAATAGGACAGAAGGCCGAAAAAA
 CAAAACCAAAAAACCAAGGGGAAAGCAAGGAAGCCCCAAGAG G G G A A G G G A G G G GAAGGAACCGGAAGGATGAGGCCAGAAGGC CAA GAAAAGAAAAGGAAGGAGGAAAAACAAGAGCAAGCACCC GAACCGGAACCGGTTTTGGTTCCAGAAGGTAACCAAAGGCAC C G GCCAAAAGGAAAAAGCCAAGAGAAGAGCCAAAAGGAAGGG
 GAAGAAACCCCAAGGAAGGAAGGGACCAAAAAGAACCGGGGA
 GAGGAAAAAGGAGAACCCCAAAGGAGAACAACCCCAGAAGGG G G G G GCC G G G G G G A A A GAACCCCGGGGAGCCAGAAGGCCGGA A A A G G A A A G A A G G G G G GAA $A \operatorname{GGGAAGCAGAGGAAGAACAAAGG}$ GCCGGCCGGCAACAGAAAAGGCCGGGGGGACAGGAGGAAAAG G G GAAGGAAGGGAGAGAAAAAAAAGAAAAAGCAAAAGGAGGG G G G A A T TA G G GCAG GAAAAGAAGGGGGCCGGCCAAAAAAGGA AAAAAAAAAAAGGACAGACGGGAGAAAAAGGGGAAAGAGCCG GAAAAAGAAAGAAGAAACCAGTAGGAAAAGGGGGGAAAAAGG G G G G G G G G G G G A A G G G G A A G G G G A A G G A A G A A G G G G G A A G G G
 G T T GAGGCAGGAAGGAAGGAGAGAAGACAGGGGGGCCAAAGA AAAAAGACCCCGGACGGAGAAGAAAAGGGAGGACCAGAGAAA
 G G GCCCCAGGGGAGAACGGCCGAAAAACCGGGGGBAAGGGGG GAAAAGGAAAAGGGGGGGGAACCGGGGAAAAAAAAGGAAAAG G G GAAGGAAAAGGAAGAGAGAGAGAGGAGGGAAGAAAAAAGA G G GAGACGAAAAGGGAAGGGGCAAGGGGACCGGGAGGCAAAG G G G A A A A A A G A A CA A TAGGGGGGGGCCGGAAACGBAAAAAAG $A G G G G A G A A G G G G A A G G G G G G A A A A G G A A A G G G G G A A G G G A A$ C T TAA A GAA $A \operatorname{A} G A A G A A G A A A G G G G A G G G G G G A A G G G A C A A A G$ G G G A A G GCCGCGACCGAGGCCGGGGGGCCGGGAGGAGAAAGG
 G GAGAACAGGACCAGGAGGGGAACACCGGGGAGCCAGAGGGG A G GAGCCAACAAAAACAAAAGAAAGGAGGAAAAGGAAGAAGA A GAGAGGGAGAGAGGAAGGGAAGGAGGCCAGAGGAGGCAGAA G G G G A A C A A G G A A G GC CA G G GCC G G A G G A G G A A G G G G G G G G G A A A G A A A G A A G G G A G G A G G G G G G G G G G G A A A G GA GAA A A A A C A G G G A G A A A C A A G G G A A G G A A G A A GAACCACCC GAA
$A G C C G G A G C A C A G G A A A A C A G A G A G G C A A G A A G A G G G A C A G$ GAAGGAAGGACAGGGAGGGAAAAGGGAAAGAACGBAACAAGB G G GAAGGCCAAAAAAGGAGGGGGAAAACCGAAAGGAAGAAAA A G GAAAACCGGGGAAAGCCAAAAGAAGAACCGGGAAAAGCAA TGCGA GAAAGAGGGGGGCCAAGAAAAAGACGGGCAAAGAACC $C G G A A G G A G G A C C A A A G G A A G G A A G C C G A A G C A G A A C G G A G A$

GAATAGAGAAAGGGGGGCCAAGGGAGGGAGAGGGGGGGAAGG G G GA G GAAACAAGGACCACCCAGGAAGAAGGAAAAAGGGGGA GAAAAAAAGGGGGTAGAGGAAACGAAAGAGACAAGGGAAAAG GAC GAAACAATAGACGGCAGGAAGGAAAAAAGGCGGGGAACA
 A GAGAGGAGGGGAGGCACAAGGAAAAAAAAAGGGGAAAAAGG G G GCAACCCAACCGAAAAAGAGGCCGAAGGGAGCCGGAAGAG G G G G A A A G GAAAAAAGGGGGACAGGAGAAAGAGAACCAGGAG A G GCAAAAATTACGGAGGGAAAGAAGGAAGGGAABAGCAGAAA GGACAAGGGGGAAAGCACCCCAAGACCGAGGAGAACAAAGGA G GACCGAGGAAAGGAGGAAGGGGGGAAAAAAGAAAGGAAAGG
 C GAGGGGGGAACAAAAAGGAAGGGAGGGCGAAGGAGAAGACC CAAGAAAAAGGGAGGACCAAGACGGGGAAGAAGGGGGGGGGA AAGCCACGCGACAAAAGGGGAGAAGAGGAGGAAAGGAAGAAA GAGAGGGGAGAGAGGGAGGCCACAGAGGGAGAGAGAAAAAAA C TA $A$ A $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G A A G G A A G A G G A G A A G A G G G G A A A A A A A A A A G$
 G G GAC $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G}$ GAAACAAAGGCAGAGGGAAGGGAGAGGAACA
 G GAAGAGGAGGAAAAAAGGGGGGGGGACCACACGAAGCCAGA
 G G G G GCACCGGCCGGGGGAGACCAGAAAAGAGGACGGCACCB A A G A A GC G GAA $A \operatorname{GGG} G A A A A A A G G A G A C C C G A C A G G G G B A T A C$ CAAAAAGCCAGAGGGGGAAAAGGACGAAGGAAGACGAGAAAA $C \subset C A G G G A C A A G G G G G G A G A G C C G G A G G G A G G A A G G A A A A A G$ GAA A GAAGGGGAAAAAAGGAAGGGGGGGGAAGGGGCAAAAAA A A A G G A A A A A A G GAACCGGGGCCGGGGAAAAAAAAGGCAAAG G G GAA A GCCAAGGGGAAGGGGAAGACACAAGAAAAGGAAAAG $G C C G G A C A G G A A A A G A G A A G G A G A G G A G G A A G G A A A A G A A A C$ C G G G G A A A A G G G G A C A A G G A A C C G C G A A G A A A G G G A G G G G G C $A C C G G A A A A G G A A A A A G G G A A C A A A G G A A A A G G C C A G G G G G A$ GAAAAGGGGAGGGGGAGCCAGGAAAGGAGACGGAAAAGAAAA A A A G A A A A A G G A GA $A \operatorname{GA} A G G A G A A G G A G A G G G G G A A G A A A A A A$
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 GAAAAAAGGAACCGGGGAAGGAAGGGGAAGGAAAAAAGAAAA $A C C G G A A G G A A G G C C A A C C G G A A G G A A G G T T G G G G G G G G G G A$ AAAGGAAGACCGGAAAAAAAAGGGGGGCCAACCGGGGAAGGA AAAGGAACCAAGGAAAAGGGGCCAAAACCAAAAGGGGAAAAA A G G A A G GCCAAAGCGGGAGAAGAAACCAGGGGGAGGGGAAGG
 A A A G GCCAACCGAAGAACAACGGGGAGAAGGGAAAGGAAAAG GCCGAAACCAAAGGGGGAAAAAAAAGGGGAAGAGAGGCCCCC $C G G A C A A A G C A A G G A A A G G G G G G A A C C C C C C G A A G G A G G A A G$ G GAGCGGAAGGAAGAAGGGAGCCAAGGAAAGACAGAAACABA G G G G A G G G G G G A A G G C C G G G A A G A A A CAAAA A C C G G G G G G C C G G G G A A C A G GA G G G G GA G G G GAAAAAAAGAACCAGAA G GAAGGA $G C C G G A A A C G A G G A A A A C A C C G G G G G G G G C C G A A A A G A A G G A$ G G G G G G G A A G G A A G GCCAAAGGGGGAAGGAAGAAGACAA GAA A G GAAAAGGAAGGGGGGGAAGCCTAGGAGCCGAGGGGGAAAG G G A A A A A G GCAAAAACAGAACGGCCAGAAGAGAGGAAGGGGG
 A A G A GAG $\operatorname{A} G A G G A C C A A G A G G A A G G G G A G A A A G C C A A G G G A G$ $G C C G A G A A A G A G A A G A A G A A G C A G G A A G G A G A A A A G G G G G G A$

A G GAGACGGAGAGGAGAAAAAAAGGGGGAGAAGAAGGAGAGG A G G G G A A A A A G A A A G G G G G G A G A A G A G A G G G G G A G G A G A G G G G G A A G A G A A G G G G A G G G G G G G A C A C A CAA $A \operatorname{AGGAGGGGAACAA}$ A G GAAAAGAGAAAGGAAGGAAAGGGGGAAAGAAAAAAAAAGC AAAGGAAGGAGGGCCGGGGGGCAAAAAGACAGAGAAAAGAGA C GACAGGGAAGAAAAAGAGGGAGGGAAGGGAAGGAAAGAGAA C G GAACAAAGGAGAGAGGAGAAAAAAAAAGGGGGGAACAGAA CAAAAGGAGAGCAAGGGGAAGAGAAAAAGAGAAAAAGAAACG G G G A A G GAGCCGGGGAAAAAGGAGAGACCGAAAAAGAAAAAA G G G G GAAGGGAAAGGAGAAAAAAAAGGAGGGAGAGACCAGGG A A G G G GAGGCCAGAAGAAAGGGAGGAAAGGAAGCCAAGACAG G G G G A A G A A A G A G C C G GAA $A \operatorname{GGGGAAAAAAAAAAAGGGAACCG}$ A GAGAACAGGAACAGACAGACAGAAGGAAAAAAAAAAGGGGA A A A A A A A A A A A G G A A C C G G G GCCAAAAAAAAAGGCCGGAAG GA GCCAGGGAAACAGGGGGGGGGAACCGGGGGGAACCACCCGBA GAAACGGAAAAAGAAAAAAGGACGAAACCGGCAAGGGAGAAA GAAAAGGGGGGAGGGAAGGGGAGGGAAAGCCCAAGAAAGAAC C GAA A GAGGAAGGAGAAGGCACAAAGGGGAAGAAAAACAAAA A A A A A A A G G G G T TAGCGGGAAAAAAAAGGGGAAGGAAAACCC C C C C C G G A A A A G GAAAAGGAAGGGGAAAAGGAAAA GAAAA G G G G G G G A A G G G G A GAAA $A \operatorname{AGGGGGAACGGAAGGAAGGAAGAAAA}$ A G G G A A GAGGGGGGGAGGAAAAAAAAAAAAAAGGAGAAGGGA A A G G G G G C C A G A A A A G G C C G G A GAAAGGGGAAAAAACGAAG G A GAGAGAGAGAGGAAGGAAAGTAAGGGAGGGAGGAGGGAAGA G GAAAAAAAGGAAAACCGAAGAGGGAAGGGACCAAACGAGGG GAAAAGGCCGGGGCCGGGGAAAAGGAAAAGGGGAAGGCAGAG GAAACGGGGAGAGACAGAAAAAAAAAAAACCGGAACCACGBA A A C C A A G G GAGGGAAAGATAGGAGGGGAAGGAA G GAAAAGGG
 $G G G A A A A G G G G A G G A G G A A G A A G A G A A A G G A G G G A A A A A G G A$ G GAACACCCGAACAGGGGGAAGGAGCCAAATAGAGAAGAGAA GCAGAGAAGGGGGAAACAGAAAGAGAAGGGGGGGGGGGGGGC CAAAAAGACGAAGAAGAGGGAGAAAGGAACCGAGGAAAAGGC A G A A A G G G A A A A A G G G A GACCAAGCACACCCAAACAAAAA GA GAGGAAAAGAAGGGGAAAGAGACGGAAGAGGTTCCAGAAGAC
 A G G G GACCCGGGGGAGGAAAAGGAAGGCCAAGGGGAAGGGGG GGGAACCGCGGACAGCCAAAAAAAAGGAAGGAAAAGGCCGGG GAAGGAAAGAAGGGGAAAAGAAGAGAGAAGGAAGGAAGAACA A A A A A GAACGGGGAGAGGGGGAAAGACAGAAAGAAA GAGGBA AAAG $A \operatorname{AA} A G G G G G G A A A A G G A G G G A A A A A A G G G A A C A A G G G G G$ GAAAAGGGGGGCAGGAAAAAAAAGGGGAAGCGGAAGAAAAAG G G GCAGAGGAAAAAAAAGGGGAAAAAAAAACAGGGGGGGGGG GAAAAGGAAGGGGGAAAGGGGAAAAGGAGGGGGGGCAAGAAA G G G G A G G G G A A G G C A G G G G G A G G A A G G G G A C C C A A G A A A G A G
 G G G G G GACCACAGAGGGAAAAGAGGAAGGGAGGGAAGAAGAG GACGGAAGGAAGGGAAAGGAGCCCAGAGGCCACAACCAACCA A G G G GA A A A A A GAAAAAAGCGGGAAAAAAAAGGAAAAGGGAA AAAACCCGGACGAAAAAAAAAAAAGACAGGAGAAGAGATAGA G GAAAAACAAAGGAGGGAGAAAAAGGAAACCAAGGGGAAAAA
 A A G A A A C A A G G A A A G G G G G A C A G G G A A G GAGGA G G A A
AAAAAAGGGAAGCCCCGGGACCAAGGAGAAGGAAGGGGAAG GAGACAGCCAACCGGAGACACCCGGAAAGAAGGGGAACCAAA G G A G A G G A G G G A A A A A G G G C C G G T T A G G G A A A G A G G G A GA C G G G G G G T T A GAAAA $A$ A A A GAGCAAAAACCGGAAGGGGAGGAA GA A G G G G G G G G A T A G A G A A A A A G A G GAGGAGGGGGAAAAGAAA G $G G G A G C C G G G G G A A A A A A G T T A G A G A G C C G G C C A G C A A G G G G$

GAAGACCGACAAAAAAAAAGGGGAGAAGGAGGGGAAGAAGAG A A A G G G G G A A A G G G G G G G G G G G G A G A G G A A A $\mathcal{A} A G G C A A A G G G$ A A G A A GAGGAAGGAGAGGAAGAGGGCCGGAGAAGAAAGAAGG A GAGAGAACAGAAGAGGAGAAAAGGAAGAGAAAACAAAGAAA G G GAA $A \subset G G A G C A G G G G A G A A G A A G G A A A G G A A C A A G A G G G G$ G G G G G A T G G A A A A $\mathcal{A} G G G A T A G G G G G G G G G G G G A A A G A G A G A G$ GTTACGGAAGAGGAACCAGAACCGGAAAAAAAAGGGGAACCG GAAGGGAGGAAGGAAGGAAAAGGACGGAAGGCAGAAAGAACA GAAGGAAGGAAAATAGAAGAAGGGAGGAGGAGAAAAAA GATC $C G A A G A C G A G G G G G G G G C C G G G A G A G A A A G A T T G G G G G G A G G$ A G GCC C G G G GCGGGAGGAGAAGAGGGGGGAGGGACAAAAAAA $A C C G G A G A G A A A C G G C G A A G G A G A G G G G G C A G A G G G G G A A A A$ T G G G A C C A A G A C C A A A A A A A G G G G G G A G G A C C C G G G G G G G A G A A A A A G G A A A G G G GAGGCCGGAAGGGGGACGGGCCGAGGCCG GCCCCAGAGGGGAAGGGAAAAACGAAGGAAGGGGGGAAGACG G GAAACCGAAGGGCAGGCCCCCCTTCCGGAAGAAAAAACAAA GAACCAAGAAAGAACAAACAGGGTAAGACCCCAAAAGGACAC CAGGGGAGGGGGGCCAAACACAAGACCGGGAAGCCAAAAGAG GAAGGAGGGGGAACCAACCGAAGATAAGGGGAAGGAAAAAAC
 $C G G C A A G G G G G A G G G G A G G G A A A C C A G G G G G A G G G A G G A A G A$ AAAAAAAAAGGGGAGGGAAAAAACCAAGGGAGAAAAAAAGAA AAAAGGAACGGGAAGAAAAGGCGAAAAGGAAGAGAGAAAAAA A GAGAGAAATTAAGGAAAAGAAAGAAAGGAGAGAAAATAGAA GAAAAAAGGAAAAAAGGAAGACAAACCGGGCAAACCCGAAGG GAAAAGGGGAATTGAGGAAAAAAGGGGCCCCAAGGGGGGCAC
 A G G G G A A C C A A G G A A A C A A GACCAAAAAGGAAAAGGGGGCCG G G G G G GAGGAAAAAAAAGGCACCAAAAAACCAAGGGGGGGGG $A C C G G G G G G C C G G A G A A G A G G G A G A A G G A G A A C A A A C A A A G G$ G G G A G A G C C A G A G G G A G G C G G A G A A G A A A G GAA A G A A A A C C G GAATTCCGGAAGGGGAAAAGGGGCCGGGGAAAAGGAACAAAG G G G G G A A A A G G A G A GAGAAAAAAGAGAGGACCCAAAGGAAAA A G G G G G G A A C C A A G A A A TAA A A A A A GAACGGCCAAAAA G GAA A A A G A C A G A A GAAAGGACACCAGAGGGAGGGGGGGAAAAAAG
 A A A A A A A A A G G A A G G G G G G C CA $A \operatorname{A} A G G G A A G G G A G A A A G G G G$ AAAAAGGGGCCGGGGAGGAGAGGAAAACCAAAGGGAAAAAGAA A G G A G G G G G G A G G A A A A GAGGAAGGAAGGCCCCAAAAAAGGG A G GCACCGGAGCCGGAAAAGAGAAAGAAAAAAACCAAGGCCG AGGAAGAGGGAGGAGAGCCGGACGAAAGGAAAAAAAAAGAAG A A A G A C CAGGGAAAAAAGAGGGCAGAGAAGGCCAAAAAAAAG G G G GAGAGGCCGAAAGGGGGGAACCGGCCGGAGAAGAAAAGA AAAGGAAAGAAAAGGCCGGGGGGCCAAGGCAAGCCAAGAAGG CA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GAAAGGAGAGAGAGAAGAGACGAAAAGAACCAGAGG ACAAGAAGGGGAAGACCAAGGGACGGACCCCAAAAAAAAAAA $G C C A G A A G G A A G G G G A C A G C C A G G G G G A A A A A A G G A G G G A G G$ GAGGAAGAAGAGGGGGGGGAACCGGGAAAAGAAACAAGAGAA AAAGGCCAGATGACCAGAAAAACCCAACCGGGAAGGACCGGG
 GAGAACAGGGGGAGGGAGGACAGGGGGAAAAGGAGGAGACCG AA $A \operatorname{A} G C A A A G G A A A A A A G G A A G G A A A A A G G A G G G G A A A A G A A$ GAAG $A \operatorname{A} A G G A A A G G G G G A A A A A G G G G G A G A G G A A G G A G G G G A G$ G GAAAAAGGGAAAGAGGCCGCGAAGGAGGACGAAAAAGGCGC C G G G A G G A A GAGGGGACGAGGCCGGAAGAAAGGCCAAAGCAC C G G A A A A A A G G A A G GAGGGGAAGCCACGAGGGGAAGAAAGGA G G G GAA A A A G GCCAAGAAACAAAAAGGAGGGGGAA GAAAGAA C G A A A A G A G A A A A G A G G A A G G A A A A CAA A A A G GAAC CAA A A G $G C A G G A A A A G A A A C A C C G G G G A G A C C C A C G G A A A A G G G A A G G$

GAAAAAGGGGGGGGAGGGGAAGGGAGAGGGGAGAAGAAAGAA
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 A A A A A A ACCAAACAGCACAAGGGCAGGAGAGAAGGAGCAAAA C G G G A A G G A G A A A C A A A A A A A G A G A A A G G A A C C A A A A A A G G G G GAGGAAGGGGCCGGAGGGGGGGGGAGGGGGGGGGCAG$G G A G$ A GACAACGGCCGGGAGGCAGAGGCCGGTTAAAAAAGGCAGAA G GAA $A \operatorname{A} A C C A A G G A G C A A G A G C A G G G G G G G G G G G G G A A A A G C$ C GAAACCAGCCAAGGACAAGGAAGGAAAAAGAACCGGGAGAA GAAAAGGAAGGAACCCCGGAACCGAGGGGGGGGCCGGGAGGG A G G GAAAAAACAAGAAGAAAAGGGGAGAGACAGAGAAAAAAG AAAAAGAGAAAAGCACCGGAGGGGGCCCCAGGAAAAAGGAAA A GAGGGGGAAAGGAAAAGGAAAAAAAAGGAAAGAGCAAAAAA AAAGGGGCCAACCAGAAGGAAGGAAAGAGAGAAAGAGGAAGA GAAAAAAAAGGAGAGAAAAAAAAGGAGGGAACCGAATAAGAC CACAAAAGGGAAACCAGCAAGAAGAGGAACCGGGAAGCCGGG GAAAACAAAACAAGAAAAAGGGGCCAGAAGGCCCCCCCAAGA AAAGGGGAACCGGGAAGAGGGAAAAGGAAGGAACCAAGGGGA AAAGAAAGGGGGGAAAAAAGACCCCAGGAAAAGCCAGAAAAC
 A A A G G G G G GCAGGGGGACCGGAACCAAGAGGGAAAAAGAAGG G G G G GA GAAAAAAGGCCAGAGACCCGGAAGGAAGAAAAGGGA ATTAAGGCCGGAGAAGGGGGGAGGGAAAGGAAACAGGGAGGG GAGACAGGGAAGGGAAGGAGAGGAAGGGGAGGAGCGAAGGGA A G G G GCAGGGGAAGACCAGAAAGGGAAAAGGAAGGAGGAAGA AAAAAGGAAAGAAGGAGAGAAGGAGAGAGACCCCAGGAAGAA A A A C A TACCAA A A A C G G GAGGGGAGGAGGACGGAGGGAACAG GGACCACCCAAAAGAAACCGGAAGAAAAGGAGGGGGGGAGAG GGGCCGGCCCACCAGAAGGAAGGAAGAGAGGAAAAAACCGGC C G G A A G G A A A A A GAAC C G GAAAAAAAAGGAAAAGGAGGAAGC C G G A A A G A A G G G G G G G G A G G A G A G A A G G A A G G A C C G G G G G G A $A C C A A G G G G A A C C G G G G G G C C G G A A G G G G C C G G C C G G G G G G G$ GAAGGGGGGAAACAGGGAGGGGGGGGGAAAAAAGGTTGACCG GAAGGAAGGAAGGACGGAAAGAGAAAAAAGAAAAA GAGGCCG ACAAAAAGGGGGGGGAAAAGGGGCCAACCGACGGGGGACAGA A A GA $\operatorname{A} A A G G A G A A A G A C G G C A G G G A A G G A A C G A G G A A C A A A G$ AAGCCAGGGAGACAGAGAGAAAAGAGGGAAAGAAGGGGGGGG A ACGGCAAAGGAAAAGGGGAAGGGGAAACGAGGGAAAGGGGA A A GAA A A G G G G G G A GAGGAGAAAAGAGGACAGGAAAGAAGGG GAAAAAAAAAAGGGGGGAAGGAAGAGAAGGGAGGGGGGAACC A G G A A G G A A C C A C A A G G A A G G G G G G G G G A G GAA A A A A G G T T A GAAA A A A A G G GCCA $\mathcal{A} G G G G G C A A A A A G A G G C A A A G G A G G G G G G$ G G G GAAAACCCGGAAGGGGAAAACCCCAAAGAAGGAAGGGGG GAAAGGGGAAAGGACAGAAGAGAACCCGAGAGAACAGACGGA A A G GAA A GAGAGGGAAAAAAGGGGGAAAAGAGGAAA GAAGGG G G G G G G G A A A C G A A A A A G GAGAGAAAGAAACAGGGAAA G G G G GACGGGGGGGAAGACGGGGGGGGAAAAAAGAAGAGGGAAAAG G G GAGGGTTGGGAGAAGAAAGAGCCAAAAAAAAAAGGGAAAAG G G A A A A A A G G G G G A G A G A A GGCAAGGAGACAAGGGCC
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 G GAGGCCAAGGGAAGGAGAAAGGAAAAAAGGAGGGGACACAA A A A G G A A GAGGAAGGGGGAGAGGGAAAAAAAAAAGAAGACGA A G G G G G G G GAGGAGGGAAAGGCCGAGAAGAAAACCAACAGGC A TA A GA A G G G G G G G G G GCAAAAAGGGGCCGAAA GGAACAAAA GAAGGGGGGAAGAGGGGAAGAAGGAAAAAAAACGAGACAA GA C C A A A A A A A A A A G G GAGAGAC GAA GAA G G G GA G G GAA G G G G A A G G G G G G G GAA A GAACACC G G G GAAAGGGAAAA GGGGGGCC G A A G G G G A A A A G A G G G A A C C G G G G G G A G A G A A C G A CA G G A G A G AAAAAAAAGAGAAGCAGGGCAAGAAGGAAGGGGAAGGGGGGA A A G GAGACCAACACCAGGGGGGGAAAAGGGGAAAAGGGAAAA A A A G G T A G G G G G G A A G G A A G G A A G G A A A A C C A A C C G G G G A A G $G C C G G A A A A G G A A A A G G G G A A A A G G A G G G C A G A G C A A A G G G G$ $A G A A G G G G A G A G G G G A A C C A A G G G G G G A G G G G A G G A A A A G G G$ G G GAAAAAGCCAAAAGGGGGGCCAGGGAGAGGAGGAAAAAAC CAACC $A \operatorname{CGGGGGGGGGGGAAGGAAGGGGGGCCGGGGAGGAAAA}$
 A G G G G G G G G G G G G G G A A A A C C C C A A G GAGGGGGCC GAAC G G G GGGGACCCCCAAAGAAGAACCGGAAAAGAGGGGAAAAGGGGA GCCGAGGAGAGAACCGGAAAACCGAGGCAAAAACACGGGTTG G G GAAGGCCGGGGCCCCGGAAGGAGCCAAGAAAAAACAGGGG G G G A A G A G A G G A A A A A A G G A A A A A A A A C C GAAA A A G G A A G G G GAAAAGGCCAAAAGGAAGGGGAGAAAAACGGGAACBAAGAGA G G G A A A A C C A A G G G G A G A A A A G G G G A A C C G G G G G G G G G G A A $G$ G G GAACCCCAGGGAACCAGGGGGGGAAAAACGAACAGGAAAA AAAGAAAACGGACACGGGGAAGGGGGGCCGGCCAAAAGGGGC CAACCAAAAGGGAGACCGGGGACGAGAGACCGGGAAAAAAGC
 A A A G G A A G G A A G G G G G G T T A G G G G GAA $A$ A A A A G G G A G G C A A A $G$
 GCCGGGGGGAAAGAGGGAGAAAAAGGGGAGGAAAAAAABAAG GAAAAGGAGGGACGGGGAAAGGGTTAACCGGGACC GAGGGGA A G G G G A A A A G G G G G G G A A A G G G GAGGACAA $A \operatorname{AAA} G G A A G G C C G$ AAGGGGGGGAAGGCACCGAAAAAGCCAAGGGCCAAAAAAAAC CAAA $A$ A A A GCCAAAACCGAGGAAAAGGGGGAGGGGGAGAGAA GACATAAAAGGAAAACAGGAAAGAGCCAAGGCAAACCAACAB G GAACGGGGAAAAAAGAGGAAAAGAGAAGAAGGGGGGCCGGA A A A A A A G A G GA GAGGAAGGGGAACCGAAGAAAAAAAAGGGGA A G G GACCCCCCGGAAACACAGAGAGAAGGGGAGGGGAAAAAG GCCAAGGGGAAAAGGCCGGAACCGGGAGGAAGGCCAGAAGAA GAAGGGGGGGGGAGGGGCCAGAAGGGGAAAAGAGGGGGAAAB G G G G A G G G G A A G G A A G G G G A A G G A G A A G G G G G G A G A C C A A $\mathcal{A} A$ C C A G G GAGGAGAACCGGAAAAGAGGAAGGAGGAAACCGACAG A GAA A A A GAGAAAGGCCGGAAAGGGGGAAGGGAGGAAAAAAA
 GAGCCAGAAGGAAGAAAAAGGGGGAGGCAAAAGGGGAGAGBA A A G G A G G G G G G G G C C A A A A A A G G G A A GA G GACA A A A A G G G G G G G GAAAAAAGGAAAAGGAGGGAACCAGAGAAGGAACCGGGGA ACCAGGGAAAAAAAAGGGGGGAAGGAGAGGGGAGGAAAACAA A G G A G A A A GCC C G A A A A GAGGGAGAGGGGGAGGGGAGAAAAA A A GA $\operatorname{A} A A A A A A A A G G A A G G G G A A A A A C A A G A G G A G G G A A C A C$ C G G G G G G G GAACCCCAGCCGGCAAGGAGAAGCCAGACA GAGA G G G G G G G A C G G G G A A G G A G A A G G A A A A G G G G G G A A A G A A A A A
 G G GAACCAACAAAAGAAAGGGAAGGGAAGGGCCAAGGGAAGG G G G G A G G C C A G G G C A G A G G A A G G C C A G G A G G G A G G G A G G A G A G G A A A A A A A A G A G G G G GAGGGGAGATACCCCGGGAGAGAA GA GAAGAAGGGGGGGAAGACCCCAAAAAAAAGAAAGGCCAACCB $A G A A A A G A A G G A G G G C C G A A G G G A C G G G G G G G G A G A A G A A G A$

GAAGGCCGCAAGAATGGAAAGCAAAGAAAAGGGAAAAAAAAA A A A A GAGGGAAGGGGCCCCGGAACCGGAACACAAGAAGAAAG GAAAAGGAGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGC CAAGGAAAAAGCCAGAAGAAGCCAAGGGGAGAAAGGAGAAGA
 G G G A G G G A G G G C A A G A C A G G A A G A GAC G G A G G G G GAC C C C C $C$ CAAAGCCCCCCAAAAGACGCACAAAGAAAGGGGAAAAAGGGG $G C C G A A C A G C C G A A A G G A A G G A C G G G G G G A A A G C C A G G A G G A$
 GAAAAGACACCGGAGCCAGAAAAAAAAGGAGGGGGAGGAAAA A A A G G GAGGAGGAAAGAAAAGACGAGGGGGGTAAAAGAAAAA A G G G G A A G A CA A G G GAGGGAAGAGGGGAGGAACGGAACAAAT ACCAGGGAAGAGGAAAAGAAGAGAAGGAAAAAAGACAAAA GA GAGGATTCCAACAAGGAGAAACCACGAGGGGAGGGAAAACAC C G GAAGAACGACCAAGGGGAAGAGGTTACGAGGGAAGAAGAA GCAAAAAACGGGGAGCCGGAGAAAACAGGGGGGGGAGGAAGA A GAACAGACAGGAGGGGCCAAGGAAGGCAAAGGAAAAGAAAG G G GAACCAGAAGGAGAAAGGCCCAAGGAAGAAAGAAGAAGAA $A G A G G A G A G G G G G A A G G A A A A G G G A G G G A G A C C G A A A G G G G G$ A G G G A G A A A G G G G G G A T G G C C A G G G G G A A G A A A G G G G G G C C A A G GAA A GAAGAGAGGAGGGCCAGAAGGGAGAGAAGAGGAAGAA C G G G A A A G G A A A A G GAA A G G G G G G GAAAAATAGGGAACAAAA
 CA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GTTAAAAAAGGAGCCGACCAAGGCAAAAAGGACAAG A A TAA $A \operatorname{GGG} \operatorname{GA} A T \mathrm{~T} A A C C G G A C A A A A A G G G G G A G A G A G A A A A G$ AAA A G G G G G G G A A A A A A A A A G G GAAAA A A A A GAAA G G GAA A A G
 C G G A A A G A G G A GAA $A \operatorname{GGGGGAAA} \operatorname{GAACGGAGAGGGGGAAGAGAA}$ A GAAA A G G GAGCC G GAAGAAGCCAGAAACGGGGAAGAGGGAA GAAGAAGGGAAGGGAAGAAGGGGAAGGGGAAGGAAACGGGGG G G G A A G G C C A A C A A A GAGGGGAAGGCCAGAAGAAC GAAAGGG G G GAGAGGGGGAACAGGGAGGGGGGGGGGCCAGCCAAAACAA GAAGGCCAAAACCCGGGAGGGAGGGCCAAGGCCGGGGGAAGA
 CAACAAACCGGAAGAGGGGCCGGAGGAAGAAAAAGAGAAAAG A G G G G GAGCGGGAGGAGAAAGAAGGAAGGACAAAAAAACGGG GAAAGGAGAACGGAAAAAGAAAAGGGGGAGGCCGAAGGGAGA G G G G GAAAAGGGAAAAGTACCCCAAGGAAGAGAAGGAAAAGA G G A A C G G A ACCAAAACGAAAACCAAGAAAGAGGAAAAAAAAG
 AAGCCAAAAGGGGAAAGGAGAGGGGAGAAGAGGCCAAGACAA $A C C G G C A A C A A A A G G A A G G A A G G A G A G C C G G G G A A G G G G G G C$ $C G G A A A A G G A G A G A G A A A G G A A G G A A G G G A A A C A G A C G A A G G$ G G G G A G A A A G A G G G G G G A G A GCCGGGGACGGGAAGGAAAA G G GAAA A A $A \operatorname{AGGGGAAA} \operatorname{A} A \mathrm{~A} A A A G G G G G A G G G G A A C C A G A G G A A G A$ C G G A A G G G A A G A A A A G G A A GAAAAAAA AACCGAAAA GACC G G GCCGACAAAAGGGGGGGAGAAAGGGAAGGCAAGACAGAAAAA GAGAAGGAGAAAAAAGAGAAAACAGCCAACCCAAAGGACGGC CA $A \operatorname{GA} A A A A G G G G G G G A G G A A G G A A G G G G G G A G A A A A G G G G G$ GAAAAAAGGAAGGCCAAGGAAAAGGGGGGAAGGGAAAGGGGG GAAGAAAGGAAAAAAAACAGAGGAAAAACAAGGGGAAAGGAG GAAGGAAGGAGAAGGGGGGAAGGAAGAGAGGAGAGAAAAAAC CAAGGAGAAGGGGGGGGCCGACAGAACAGACAGGGGG
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GAGGGGGAAAAACGGGGAAAAAAGGAAAAAAAAGGGGAGAGA $A C C G A G A G G A G A A A G A A G G A A A A A A G G G G G A A A G G T T G G G G G$ G G G G G A A G GAGCCACGGAAGGAGAGGAGAAGAAGAAGCAAAA GAGGACCAAGGAAAAGGGGGGGGAAGGAACCCCGGGAAGAAA


 GAGCCAGAGGGGGGGCCAGCCAGAGAAAGGAAGAAAAGGGGG $A C C A A G A C A A A G G C C G G C C A A C C G G A G A A A A G G G G G A G G G G A$ A GGAAAAAACCGGGGAAAAGGAAAAGGGGAAGGAAGAAACCG GAGAAAACCGGAAAGGGAGAGGGGAGAGGGGAAGGGGCATAA GAAGGAAAGCAAGCCAAAAAGGGGGAAGAACGGGGAAGGGGA GAGAGCCAAGGGAGAAAAAGGGGAAAACCGAGGAGAGCAGAA C G G A G A G G G A C A A G G G C G A A G G A A A G GAAA A $A$ A A G G G A G G A A G G GACCAAGAGAGAGAGGGAAGGGGAAAAAGGGGGGGGAAAA A A A A A A A A A G G G GAGGGAGAAAGAGGGGAACGGAGAAAACAA A A A G G A A G G A G GAA $A \operatorname{A} G A A G G G A G G A G A A G G G G G A G A A G A A G A$ G G GCCAAAAGGGGAGGAAAGAGGAAAAAAAAAAAGACAAAAG GAGAAGGCCGGGACCGGAAAAGGAAAGGGACAGCAGAGGGGG GAGAGACAGCCAGGGCAGGAAGGAGGGAACCGAGGCCGAATA CAGAAGGGGAAAAAAAAAGAAGGGGTTAAGAGGGGGGGGAAC C T TCCAAAAAAGGAAAGAGGAGAAACCGAGAGACAAGAGAAG A GAAACAAAGGCCGGAGGACCGGAAAGAGGGCCGGAGGAAAA GAGGAAAGGGGAAAAAGAGGAGGAAAGAGAGAAGAAACACCA $A C C A C A G A G A G G G G G C A A G A A G C G G A A G A A G A A A A G A A A G G G$
 AAAGGAAACAAAGAAAGAAAGGGGGCACCAAAGGGACCACCA A ACAAAAGGAAAACAAAGAAGGGAAAAAAAAGGGAAGAGACA GACAGAAAGTTAAAAGGGAGGAGCCCCGGAGGAAGGGGAGGA A G G G G A A A A G G G G A G G G A A A A A G A A A G G G G G GAC C A A A G G G A G G G G A A G C C A A A A G G G G A A A A A A A G G G G G A A A A GAA A GAA C G $G C C A A A A G G G A A C C C A G G A A A C C G A A A G G A A A A A A C C G G G A G$ GAGGGAAAAAGAGGGGGAAAGAAGAGGAAAACCACAAGGGGG G G G G G A A A A A A GAGGGCAAAAAGAAAGGAGAGAAAGGGAAAA A A A A A A A C CAACCAAGGAAGGGGAAGGGGGAAAGAAGAAAAG A A G A A G G G A G G G A G G G G GACCA $A \operatorname{A} A A G G G A G G G A C A G G A A A A G$ $A C C A A G G G A C C A A G G A A A A C C G G A A A A G A A A C G C G G G G A A A A$ GAAGAGAGAAGACAAAGAAGGGAAAGGACGGAAAAAGBAAGAA $A G G A A G G A A G G A G A A A G G G A G A A G A G G A G A A A G G A A G G A A G B$ G G G A A A A G A C A G G G G G G A A G GAAAACCAACCGGAA G GAA G G G GAACCAAGGGGAAAAAAGGAAAAAAGGCCGGAAGAAAGGGGC CAAAAAGGAAGCCCAACACAAGAGGAGGGAAGABAAGGAGGG GAACCGGCAAGGGGGAAAGAGGGAAGAAGAAGGCCGGGAAAG G G G A A G G G G A A A A G A G A GAGGGGGGGGAAAGGGTTAAAAAAA

 GAGAGAACCAAGGCCAGAACCGGAAGGGACAAAGGGAAAAAG GAGGAAGGGACAAAAGGGGGGCAAAAGCAAGACAGCCCCC GA
 A A GAACCGGAAGAAGAAGGAAATAAAAAAGGGGGGGGGGGGG GAAAGGAGGAACCGAGGGGAAAAGGAAGGAAAAGATTCAAAA G G G G A A C G A A C TA G G GAAA A G G G C C GA GAC C G G G GCCCC G A $A \subset A G G A A G G G G G G A A A G A A A G A G A G G G G A G A G A A A C C A G C C G$ A GAAGGGGGAAGGGGGGGGGGGAAAGAAAGGCCAAGAAAAAG G G GAAAGAAGGAAGGAAGGCCAAGGGGAGGGGGACCCCAAAG AGGAGAAAAGAGGCCAACAAAAAAGTTAGGGAAAGAGAAAAC CAACC G GAACCGGAAGGAGAAGGAGGGAAGGAAAGAGGAAGB GAGCCACAGAAAAGGAGGGGGAACCAAAAGGAAAAGBCCAAA AAAAGGCGGAGGAGAACGAACGACCGGGGGACCGGGGCAAGG

GAGGGAGCGAGGAGGAGGAAAGGGGCAAGGGAAACAAGACAG

 AAA A G G G G G G G G G G GAAAAAAAAAAACAAGAGGAAGAAAAAA G GACGGAAAGGGGGGGAGGAAGAGAGGGGGGGGAGAAAAAAGA A A A G A G G G G A A A A G GAAAA A G A CACAAGGGGCCAA GAGAGAA
 AAACCGAGGAGCAGGAACCGAGAGGGAGGAAAGCCAAGAGGA GAACCAGAAAGAGGGAAAGAAGAGGAAAAGGCCAAGGGGGGC A GAGGGGAAAAGGGGGGGGGGAACCGGAACAGAGAGGTXGAG G G GAA A G G GACACGGAAAAAAGGAAAAGAAGAAGGGAAAAAG A GAA $A$ A G A A A A A A A A A A A A A A A A A C GAGAGGAC GAAA GA GA G $G C C C A C C G G G G G G G G C C G G A A A A A A G G G G G G A A A C B A A A C A A$ A G GAAAAGGAAGGAACCGAGGGGAAGAGGGGGAGGGGAAAAG
 CAA A A A G GAAAAAAAAGGAGCAGAAGGGAGGAA GGAAAAAGAC C C C G G A A A A G G A A A A G G G G A A C A A A A C G G G GC C A A A A A G G G G A G G G A A G G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A A C \subset A A G G G G G A G A G A A G A G G A A G C$ $C G G G G A A G A C C G G G G C C G G A A A C A A C C A A A G G G G G G A A G C C G$ G G G A G A A A A A A G G A A A A A A A C G G G G GAGGAGAGAA G GA GA G A AA $A \operatorname{GGA} A A C A A A G A G A G G A G G G G G G A G A A A G G G G G A A A A A A A$ GAAAA AA $A \operatorname{A} G \mathrm{G} G A A A A A A A A G A A G G A A A G G G G G A G G A A A G G G G G$ A G G G G G G G G A G G G G G A G A G G G G A A A A A A A G G C C G G A G A A $\mathcal{A} A G$ A A G A A GA $A \operatorname{GGG} G \mathrm{G} A A A A G G G A C G G G G A A G A A C G G A A G G A A A G C$ CAAAAGGAAGGAAGGAAAAGGGGAAGGAAGAGAGAA GA GAAGG
 GACCAAAGGAGAGCCGAGAACAGAAGGAAAGAAGAAGGGCAA A A A G G A G A A A A G G G G C A A C A A $\mathcal{A} G G G G G G G G G G G A G G G A A G A G$ $G C C A A A A A G G G G G A A A A G A G G G A A A G G A G G G A A A A A A G G G G C$ C G GCCGAGGAGAAAAAAGGGAAACCGAGGAAGGAGCCAAAAG GAAA A A G G G T T G G G G C C G A A A C C G G A G C A CA $\mathcal{A} G A G G G G G G G A$ GAGGAGACCGGGGGAAAGGAACCAAGGGAGGAAAAAAGAAAG GAAAAGGGGGGAAAAAAATAGAAGAAAGAAAAAAAAGGGGAA $A G G G G G G C C A G G G G G G G G G G G A A G G G G A A C C G A G G A G A A G X T$ TCCAAGGAGAAAAAGCCAGGGAAGGGGGAGGGGAAAAAAGAG AAAGGAAAAAGAAGGCCAAGGAACAGGAGGGAAAAAAAAAAG
 A GACCGGAGAAAAAAAGGGGAGGGGAAAGACGGCACAAAGGG $G G A A A A A A A A A G G G G A A G G A G A G G A A A G A G G A G A G A G G G G G G$ GAA A G G GAA $A \operatorname{G}$ GAAAAATAAAGGGGGAAACGCAGAAAACCGGG G G G G G A GAGGGGGGGACGAGAAACCAAGGAAGAAGGAAAAGAC CAAA $A$ A A A C G G C C A A A A A G G G G G A G A G G G C A G G G G G G A G G G G A A G GAGGAAAAACCCGGAAAAGGAAAAAAAAGGAACCAATTG G G G G G A A A A A A A A G GCCGGGGCCAAAAAAAAGGGGCAAAAAA

 GAGGACAGGGGGGGACAGGGGGGAAGGAAGGCCGBAAAAGBC A G GAGGGAGAAAATTGGGGGGAAGGATAGCCGAGAGAGAGAC A G GAGGGAAAAAAAAAAAACCGACAAGGAAAGGAGAGAAGAA
 A G G G G GAAA A G GAAACCAGGGAAGGGGGGAAAAGGAACAAAG G GAAGACGAGAGAAAAAGGAAGGAAAAAAGAAACAAAAGGCC C G G G G GCCC $C$ CAA $A C C G G G G G G C C A A G G G G G G A A G G C G$
$C A A C G G A G A A G A A G G G G G A G A C G G G G G A A G A C G A G A A G A G C$ C G G G G G G A C A G A A G G G A A G G G A A G G A A G G A A G G A A A G C A G A A GAACAAAAGGAGGAGGGAGAGAGAGAGAGGGGGAAGAAAAGA A GAGAACGAGAAGAGAGGGGGGAAGGAAGAAAGACAAGACCA GAGAAAACCAAAGGAAAAACCCAGAGGGGAAGGAAAACAAGAG GAAGGAAAAGAGGCAAAGGAACAAGGAGGGAACAAGAAAAAG

GAAAAGGAAACGGGGAAGGGGGGGAAAACGGGGCGAAAAAGA GAGGGAAGGCAGGAGGACCGGGAAGAAGAAAAAAGEGAAGGG G G G A G GAA $A \operatorname{AA} A G G G G A A A G G A G G G G A G A A A G G A G G A A G A C C T$ A GAACAAACGAAGAAGGCCAAAGGGAGAGGGAGGGCCGGGGA GAAAGAGAGCCGAAAGAGGGAAAACAAGGGGGGGGGGGCGBA GAGGGAAGGAGAAGGGAAAGGGGCCAAAAAACAAAGAAAGGG GCCAAGGGGCGAAGGAGCAGAAGGGAAGAAAGAGAAGGAAGG AAGGAAGGACCAGGGAAGGGGGAAAGGCCAAAACCACGAGAG A A G G G A G A GAA $A \operatorname{GGG} \operatorname{GA} A A A A G A A A A A A G G G A G G A A C A A A A C A$ A G GAAAGGAAGAGGGACCCAAAAAAGGGGAAGAAAACACAAG G G GAGAAAGGAAAAGGGAGGACAGAGGAGGGGGAAAAAAGAG

 G G G G G A G A A G G G G A G G G G A A A A A G GAGGGAGGAAAA G GAA G G AAAAAAGGGAAAAACACAGAAGACACCAAAAAGGGGAAAAAG A GAGGGAGGAA GGGGGAAAAAAAGGAATTATGGGGGGGGCCG A G GAAAGCCAAAAAACCGGAAGGGAGGGACCGAAGAAAGAGC A G GAA A ACAAGAACCGGAAGAAGGACCAGACAAGAAGGAGAA AACGGGAGGCAGGAAACAACCGAAGAAGAGGGGGGAAAAGGT TGGAACCAAAGAAAAGAAGCAACGAGGAAAAAAAACAAAGBA A G GAA A G G G G G GAGGGGAAAAACAAAAAAGAAAAAAGAGGAG A GAGGGGAAGGAAGAAGCCAAGAAAGAGGGACCAGAAGAAGA GACAGGGAGAAAAATGGAGCCAAAGGGCAAAAACCGGCCGGG
 A A A A A A G A GCC G G A A A GA G G G C A T T G A A A G G G G G G G G G G G G A A G G G G G G T A A G A A C C G A A GAC GAGGCC GAA A A A GAGGGC GA G
 GAAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGABAGAA AA GAGACACGGGAAGAAGGAACCAAAAGGGGCCCCAAAAAAG GAAAAAAAAAAAAAAGGGGGGAAAAGGAAAAAAGGAAAAGGG GTTCCGGAAGGAATTAACCGGGGCCAAGGGGAAAAGAAAAAA AAAGGAAGGGGGGAAAAGGAACCGGAAAACCGGGGGGCAAAA A G G G G A A A A G GCCAAAAGGAAAAGGGGGGAAGGCCAA GAAAA
 GAAGGAAGGAAGGAAGGGGAAAAGGGGGGAACCAACCAAAAC $C G G C C G G G G C C G G A A A A G G G G C C G G C C A A G G G G A A A A A A G G G$ $G C C C C A A C C A A A A A A C C G G A A A A G G G G G G G G G G C C A A G G G G A$ A G G G GAAGGAAAAAAGGGGCCCCGGAAGGGGAAAAGGCAAAA A A A A A G G A A A A G G G G A A A A G G G G G G C C G G A A G G A A A A G G G G A A A A G G A A $\mathcal{A} G G G A A C C A A A A G G G G G G G G G G G G A A G G G G C A G A A$ A G G G G A A G GAAAAGGAAGGAACCCCGGCCAAGGAAGGAAAAA AAAGGGGAAAGGAGAGGCATACCCCAAAACCAAGGAGAAAAG AAAAGAAGAGGGGGGAAGGGGCCCAGGGGAGCCAAAACAAAG G GCGGAAAGGACAAGGAACAAGGCCAAGGAAGGGGGAAAAAG GAAGGAAGGAAGGGGGGAGAACCAGGGGGACAAGAAAAAGGC G G A A A A A G G A A A A A T C A A G G G G A A G A A G A TTCAAAAA GAACA A A A G A A A G A GACC GACCTAAAAAAGGGAAAAAAAAGGAACAG GAAAAAAATAGAAGAGGAAGCACAAAGGAAGTACAAAGAAAT TAAACAACCAAAAAAGAAGAGAAGGGGGACAAGAGAGCAGAA GAAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCGBA AAAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGAAAG AA GAAAAGAGACAAATAAAAAGAGGAAAAAAAACCAAA GAGAA A A G A A C A A A A A A A CACACCCAGGCCGGAAGGAATTAAAAGGG AAAAAGGAGAAGAAGAAAAGGCCCCGGGGGGAGGGACAAAAG G G G G G A C G GAA $A \operatorname{GAAAAAAAGCGGGGAGCCCCAAGGGAACGBA}$
 GAAGACAAACCGAACAGAGCAAAAGAATTGGGGCAGAAAAAC CA GAGGGCCAAAAGGAAGGAAGGAAGGAACCGGAAAGGAAGA AGGAAAAAGCCAGGAAAGGAAAGGAGAAAAAGAGGGGAAGGA

GCCGGAAAGGGGGAGGGGAAGGAGGGGCCCCGGAAAGAAGGG GAAGAGAAGAAGGAGGGCCAAAGGGGAGGGAGGAAGGGAAAG GAAAAAAAAGGAAAACCGGAGGGACGGAGGGAGAAGACAGGG GAAGGGGGGGGCCAGGGAACCAACCAAGGAAAGGAGGAAGAA AAAGGAAGGAACCGAGGTTGAAGGGAAGAGGGAGGCCAGAGA GAAGAAAGAGGAACCAGAGACGGGGAGGAAGAAAAGAAACCG GAGAAAAGAAAAAGAAACACAGGAAGGGGAGAACCGGAGAAC CAAAAAAAAGGAAGGGGACGAAAGGGGCCAAAGCCGAAAGGG $A C C C A G G A A A C A G A A G G A A G G G G A A G A T T C C G A G G G A A A C C A$ A GAGATAAGAACAAAGGGCAAGGAGGACAGACCGGGGGAAAA A G G G G A A C C A A C C G G G G GAGGGGGGAAGGGACCCC GAA GAAA G G A A G A A A GAAAGAAAAAGCCGGGAGGGGGGCAGGAAAAAGG GAACCGGGGGGAAAACCAAAAGGAAAACCAAGACCAGGGGGG A GACCAAGAGAACACGGAACCAAGGGGAAGGGGGAGAAAAGB A GAAAAGAGCCGGAACAGGAAAAGGCCGGCCGGGAGGGAAGA A G GAA A GAAGGGAGAGAGGGGAAAAAGAAAGGGAGAAAAAAC C GAAAAAA $A \operatorname{A} A A G A A A G A G A G G A A G G C A G A A G A G A G A A G G G G G$ GAAGGAACAAAAGAGCGCAAGACAGCCGGGGGGAGAGACACA $G G A A A G G G G A A C C A G G A A G C C A A G G G G C C G G G G A A A G G A A A G$ G G G G GA A G GAAAAGGAAGACCAAGGAACCAGGGAACAACAGG A ACAAGGAAAAGGCCAGCCAAGGGAAGGGCCGAGGAAGGGGA ACCAAGGAGAAGAAACAGGAGAGGGGAAACAGGCCGAAAGAA AAAGGAAGGAAGAAGGAGGAGACAAGGGGCCGAGGAACAAGAA ACACCACAACCCCCCAAGGGGGAAGCAAAGGGAAGAGCAAAG G G GCCAGGAAAGGAGGGCCAAGGGGAGAAGGCCGAGAAAA GA AAAGGAAGGGGCCAAAAAAAAGGAAAAAAGGAAGATTAAAGG G G GAA A A GAA $A$ A $A \operatorname{GA} A \operatorname{A} A A A A A G G A A A A A A G G G G C C A A G A G G C$ $A C C G G G G A A A A A G G A A A G G G G A G G G G G G A G A A A G G A A A A G G A$ A G G A C G G G G G G GAGGGGCCAGAGAAAAACAGAACCBACAAAG G G G G G A A A G G A A G GAAAGGGGAAAACCAAAGGGCCAAAAAAG G GAA $A \operatorname{G} G A A \operatorname{A} G \mathrm{G} C A A A A A G A G G G G A C A G A A G A A A A A A G A A A G$ AAAAGCCGGGGGGGGAGGGGGAGAGAAGGATGGAAGAGGGGG A G GAA A A A GAGGAACGGGGGGGAAAAAGGAAAGCCAGA G GAAA G G GCCAAGGAAAAAAAACAGGGGAGAAGGAAAAAAGAAAAAG $G C C A A C C G G A G A A A A A A G G G A A A A G A A G G G G G A A G G A G A A G G$ $A C \subset A A G G G G G G A A G G G G A A A A G A G G A A G A C G A A G G G G A G A G G$ AGGAGCCAAACAAGGAAAAGAAAAAGGGGGGCCCAAAGGAGA A G G G G G GC G G G G G G G G G G G G G G G G G A A A A CA A A G GAACAAA A G G G G GCC $C$ G G G G GCCGGAAAAAAGGAAGGGAGGCC GAGAAAG ATTGAAACCCCGGGGAGGGAAGGACACAAAAAACCAAGAATA A A A A A A A G G G A A A A G G GA $\operatorname{A} A A A G G G A C C G A A G G G A G G G G G G G G$

 G A A A A G G G G A A G G G G G G G G G G A A G A G G A A T T C C G G G GAA G G A AGGAAGAAGCAAGAGAGGGAAAAACAGAACCAACAAAAAGBA A G G A A A A A GACAAAAGGAAACCCAACATTACAACCGGAGAAA
 AAAACGAAAAGGGCAAAAAAAAAGGAAAAGAAAAGGGGGGGA AAAAACCGGACGATTAAAAAAAACCAAGAGGCGGGAAAAAAA AAAAACCAAACGAAGCCGAGAAACCGGAAAAACAAAAAGGGG GAACAAACCAAAAAAAAAAAAGGAAGAAAGGAAGGAAGAA GA C G G G G G G C C C C A A A A A A G GAGG CAA A G G G A A G G A G G G A A A G G G G GCC $C$ G G $\operatorname{CA} A A A A G G G G A G G G G A G G G A G G G G A C C A A A$
G GAGGAACGAGGGGAAGGAGACAAGGAAGGAATACCAGGGA GAAGAGGGGAAAAAGGGAAGAAGACAGGGAAGGAACCBGCCG A G G G G A A A A G G G G A A G G T T C C G G A A GAA GAATTGA GA G GAAC C C C G GAA $A \operatorname{GGG} G \mathrm{G} A A A G G G G G G C A G G G G A A G G A A A A G A A A G G G$ $G C C A A G G G G C C G G G G A A A A A A G G G G G A A G C C G G A A A G C C G G G$ $C G G G G C A G G C A A A A A A C A A A G A A A A G A A A G G A A C C G A C C G G C$
$C \subset A C C A C A C G G C A G G C C G A G G A G A G G G G G G A A C C C G A C A G G G$ G G GCCAAAACAGGGGGGAGGGGGAACGAGATAGAGAGCACAG GAGGGAGGAAGCCAGAAGGAGAGGAAGCAAGGGAGAGACAGC C G G GAAAAAAGGAAGAGAGGATTGGAAAAGGAAGGAGGGCCG G G GAAAGGGAGGGGGGGGGGGAAACCCGGAAGGAAGGAAAAA GCCAAGGCCGGAAAAGGGGAAAAGGGGGGCCAAAAAAAAGEG GAA A G G G G G A A A G G G G G A A A A G G G A A G G G G G G G G G C A A A G G A AAAAAAAAAGGCCAAGGAAAAAAGGCCGGAAAGGAAAGAAAA
 AGGCAAAACGAGAAAGGGGCAAGAAGGAAAGGAGGGGAAAAG GAGAAACGGAAACAGAAGGAGGAGGCCGGAGAAAACCAAGEC C C C G A C A A A G G A A A A G GCC G G G GAGAA GACCGGGAAA G G G G G A A GCC G G A A A A A A G G G A G G A GACGGGAGAAGAACC G GA GAA G G G A G G G G A A G A G G G G G G A A A A G G A G A G G G G G G A C C G G A G A A A A A A A A G G G G G G GAGGAACCGGGGCCGAGGAAGGGGGAAAGGA GAGAAAGGGAGGGGGGGAAAGAGCCGACCGGGGGGGGAGGGA G G G G G G A A A G G G G G A A G G G A A G G A A G G A G A A A C A G G A A A G G A AAAAACCAAGGAAAACCGGGGAAGGGACGAGGAGGAGGAAGA CA $A \operatorname{GA} A G A G G A G G G G A G G G C A G G G G A A G G G G G G G G G A A G A G G$ GAAGGGGAAGAGGGAAAGAAACCGACCAAAACCAGGBAAGBA A GAGGAAAGAAGAAAAGAAAAGGTTGAGGAGGGGAAAGAAGA
 AA $\operatorname{A} G A A C A A G G G A A A G G A G A A A C A G A C A A G A A G A G G G A A G E C$ CAAAAGGGGCCAGAAGAGGAAAAGGCAAGCAAAAAAGGGGGT T G G G G G G A A G G A A T T A A C C G G G G A A A A A A A A G G G G A A A A G G A $A C C G G G G G G G A G G G G A A G G C C C C A G A G A A A A C A C A G A G A G A A$ GACGGAAAACCCCGGAAAACAGGCATTAAAGCCAAAGACAGA GA $A$ A A A A $\mathcal{A} G A G A G G G G A G G G G A C G G A A A G G G A A A A G A G A A A G$ GACCCAGAACCGGGAGGAAAAAAGGGGAAAACCAGGGGAGGG G G GAAGGGGAGGAAGGAGAAAAAGAAACCAAAAGGGAAAGGA A A A G G A A G A G A G A A A G G A G A A C A A GA G G G A A A A G A GA G G G G A A G GATAAGGAGAGGGGAGGAAGGAAGGAGGAGGCAAAAGGGC AAAAGAAAACCAAGGAGCAAAGGAGCCACAGGAAAAAAAAAG

 ATTATAGAGCCACCAAAAACCGGGGAAGGCCGGGGAAACAAA A G G G G G G G G C C G G A A C C GAC CAG GAGGGAGAGAAAAACCACA AGGCCAAGGCCGGGGAAAGGAAGACAAGAGGAGGGGATAAAG GC G A A G G G G G A A A G G G G G A A A C C A G G GAAA A G G A A A A A A G G G G GAGGAGAGCAAAAAGGAAGGAGGGGAGGAAAAGGAACACCG A G G G G A A A A A CAGCCCAGGAAGGAAAAAAAAAAAAGAAAAGG G G G A A G G A A G GCGAAAACCCCAAGGAGGAGGAAAGAAAAGAG G GACCGAAGGGGAGGGGGGGGAGGGAGAAAGACAAGGGGGGG A G G GAA $A \operatorname{GACA} C \subset A A A A A A G G C A G A A A G A A A C A A T G G G A A A G$ A G G G G A A G GACAAGAGGCAGGCCGGCCGGGGAAAAAAAACAA A A A A A G G A A A A G G A A G G A A G G G G G G G G A A TTGGAACCAAAAA A A A G G A A A A A A G G T T G G C C G G A A A A A A A A A A G G A A T T C C A A G GAAGGAAGGAAGGAAGGAAGGCCCCAACCGGGGGGAAAAGGG GCCAAAAAAGGGGAAAAAACCGGCCGGAAGGAAAAGGAAAAA ATTAAAAGGCCGGCCAAAAAAGGCCAAGGAAAAGGAAGGCCG G T T A A G G A A A A A A C C G G G G G G G G G G A A G G G G A A A A A A A A G G A A A A A A A A A A A A G G A A A A A A A A A A G GAAAAAA A G C C G GAA G G C CAACC G G A A G G A A G G G G G G G G C C A A A A A A A A G G C C A A G G G G G GAAGGAACCGGAAAAAAAAAAAAAAGGAAGGCCAAGGCCCCA A G GAAAAAACCAAGGGGAAAAAAAAAAGGAAGGAAAAGAAAG GAAAAGGGGGGAAGGAAAAAAAAAAGGAAAAGGGGAAGAGGA A A A G G A A G GAACCGGCCGGGGAAGGAAGGGGAAAAAAAAGAA AGGAAAAAAGGCCAAAACCCCCCGGCCACGGCCGGGAAAGGA A GACCAGGAGGAAAAAAGGGGAAGGGGGGAAGGAGGAACAGA

AA $A G G G A A A A G A C A A G A A A G G A A G A A G A A A G G G G G G G A G G A G$ A A G G G A A A A $\mathcal{A} G G G G G G C A A G G A G G G A A G G G G G A G A G G A A G G G$ $G G A G G A A A A C G A G A G G G A G G G A A G G G G A A G G A A A G A A A A A A G$ GAAAAGGACCGAGAGGGAGAGACGGGGGGCAAAAACCTXAAG G G GAACCAAGGAAGAGGAGAGTAGGAAGAAGCCAAGGGACAG GAGGAGAAGAAAAGGAGATGAAGACGAAGCAAAAGGGAACCG
 GAGAAGGGAAAAAGGAAGAGAGGGGGGGGAAAGGAAAGACCG G G G G G G G G G A A G A G G A A $\mathcal{A} A G G G G A G G G A A G G C C G G G G G G G G G$ AGAGAAGGGACGAGAAGGGAAGAGAGGGGAAATCCAAGAAGG G GAA $A$ A A $A G G G G G A G A A A G G G A A A A G G A A G G A A A G A A G G G G G$ AA GACGAGGAAAAAAAAGAGAAGCCGGGAAAGGGACAGAAAA $A G G G G G G A A G G G G C A G A G A A A G G G G C A A G A G G A A A C C B A G A A$
 AAGAAGGGAGGAAGGAAGAAGAAGGAAGGCCAACCGAGGGGA AAAA A A A G G G G GAAAAAGGGAACAGAACCAGAA GGGAAGAAG A A G G A A A G A A GCC GAGAGGAAGGGAGAGGGAGAAACCTXAAA G G A A A A A A C G G G GAGGGGAGAACAAAGGGGGAAAGAACAAAA CAAAACGAAGAAGGGAGGGGGAAGGGGCAAGGAAAAAGGGGA A A A A G G A G A C A A A G GAA A A G G G GAAGGGGAAGGCCAACAAAA $A C C A A G G G G A A A A G G G G C C G G A A A A A A G G A A G G G G G G G G G G A$ A T T G G G G A A G G A A G G G G G G A A G G C C C C G G G G G G A A C C G G G G G GCCGGAAAAAACCGGGGAACCGGAAAAAAAACCAAAAGGCCG G G G T T A A C C G G A A G G A A G G G G A A A A A A A A G GAAAAAA A G C C C CAAAAAATTAAGGAAGGAAAAAAAAAAGGAAGGAACCAAAAA
 A G G G G A A G G G G G A G G G G A A GAGGGGGGGGGACCAA G G A A A G G G ATACAGAAAGAGGGGGGGGGGAAGGGAGAAGAGAAGGGGGGA C GAACGGGGAAAGAAAAAAAAGGGGGGAAAGAGGAAAACGGA AAGAGAAAAGGGGGGGACACCAGAGGGAGGGAGGGACGGCCA GAGAAGGAAAAGAGGGAAAAGGACCAAAAGGAAAAAGAAGAA GAAACAGGGGGAAGAGGAAAACCAAGAAAGGGGGGAAGACAG A A GAAAAAAGAAGAACCGGGGAAGGGGAAGGAACGGGACGAG G G GAAGGAGGGAAGGAGGGAAGGAACCACGGAAAAAAAGGAG GAAAGCAGAGGGGAAGGGGGAGAAGACAGGAAAAAGGAAAAA GAAAAGGGGAGGGAAAAGAAAGGAAAAAGCCGGGGAACAAAG AGAGGAAGGCCAGAAAGACAGACAAAGGAAGCCAAACAAAAG A G GAA A GCCCCGGAAAAAGAAGGCAGAGAAGGAAAGGAAAAA A G GAACCACGGAAAACAAAGGCAGGGGCAAAGGACCAAGGGG A A A A A G G G GAACAAAGGGGAAAAAAGAGGATAGAAGGAAAAA GAGGGGGAGGGAAGGAAGGAAGGGGGGAGGGGGGGAAAAGAG A G G G G A G G A G G A A A A A C CAAAAGACGGCCGAGAGAAACAACA GCAAAAAGGAGAAAAAAGGGAAAAAGGCCGAGGAACCCCGGA G G G A G GAGGGGCCGGAGCCGGCCGGGGAAGGGGGGAAAAAGG GAAAGGAGACCGGAGAGGAAAGGGACCAGAAAGAGAGAAAGB GAGGAAAAAAAGGGGAAAATTAAAAAAAGAAGAGAGAAAGGG GAAAAAAGAAGGGGACAAGAAGGGAAAGGGGGGAGAGAAGAG
 AAAACGAACAGGAGAGGGGGGGGGGAAGGCAAACCGACAGAC C G GACGGGAGGGACCAAAAGGAAAAGAGGAACCAACCCAAGA GAAGAACGGAGGGAGAAAGGGGAGGGGAGAAGAGAGAAAGAA AGGGCCCAATAAGGAGGAGAACCGGCAAGGGAAAGAGAAAAG G G A A C A G C C G G A A G G A G G G G G G G G G C C A C A C C C G G G G
G GAAGGGGAGCCAAGGGGAAGGAAAGTAGGGGGGCCAGAGG GAAAGAGGGAACCAAGAGGGAAGGGGGGGCCGGAACCGAAGA A A A A A A A G GA GAGAA $A$ A A G GAGAAAAACGGGAGGGAAA GAAAA AAAAAAGAGAAAAGGGGCCGAAGAAGAGGAGAAGGGGAGGAG G G GAAAAAAGAGAAGGAGGACACGGGGAAGGAAGACCGAGAA GAGGGGGAGCCCCAACCGGGGAAGGAGAGACAAAAAACACAG
 $G G G A G G A A G A A G A G A A A A A A G A G G A A G G G G A G A G G G A G A C C G$ GAAGACCAGGGAAAGAAAAGGGGGGGGGGGGAAAAGGAACAC CAGGGAAGGAACCGGGGGGCCCACCAGAAGAGGAAGGCAAAA
 A G GA $\operatorname{l}$ G A G GAAAAAAGGAACCAGACGGAAAAAAAAGGGAAAC CAAAAGGGGTTGGCCGGAGAAAGGAAAGGAACCCAAAAAA GA GAGAGAAAAGGGGAAGGCCGGAACCAAAACAGAAGACGGCCG A GAGGCAAAGGAAGAGGAGAAAAGGGAAGAAGGCCCAGGGAG GAAAGGAAGAAAAAGAAAGCCGAGGCCGAGAGAGGGAGGGGG G G GCCCAGGGGAAGAAAGAAGGAGAGGGACAGGGGGGAACAA A A GACAGGGGAAGACGGAGGAAAGGGGAGCCGAAGCACAAGA ACACAAGGGAAAAAAAAAGGAGGATGGAGACCCGGGGAAAAG ACAGAAAGGAGGGGGGAGGGGAAAAAAGGAAGGCCGAAAGGA AGAGGGACAAGAAGACAGGACAAGGAGGGGGAAGGGAAGGGG $A C C C C C C C C G G G A C A A A A A G G A A G A G A G G G G G G A A A A C C G G C$ C G GCCAAAAGGAGGGAAAGAGGGAAGAGGAAAAGGGAAAAGG A G G G G G G A A G A C A G G G G G G G G G A A A A A A A G G G G G G G G G G T T A $A C C G A A A A A A G C C G A A G A A G G G G A G A A G G A G A G C C A G A C A A A$ GACA $A \operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A A A A A G G A A A A A A A A A G G A A A G G A$ GAAGGGAAAGGGAACGGAAGGCCGGACAAGGAAAAAGGAAAA A G GCCGAAGGGAGGAAAAAAAGGCCGGGGGAGGAGGACCGGG GAAGAAAACAGATAGCAGGGGAAGCCAGGGGCCCCAACCGGG GAGCCAAGAAAGGGAAGAGAACCAAGAAAGATTCCGGGAGGA $A C C G G G G A A A G A A G G A A C C A A G G A C A G G G C A A A A A G G G A C C C$ ACCAAAAGACCAGAGAAAAGGCAGAAAGGAAACAGGGGGAAA AAAGGGGGGGGAAAAGGGGAACCAAAAAAAGGGGGGGAAAAG A GAGAGAAGGAGAGGAGAAAAAAAGCCAAAACCAAAGAGCAG GAAAAAAGGAAGGGGGAGAGGAGAAGGGGAGGGAGGGAAGAA AGGAAGAGGAACCAAAAGGTTGGAAAAGGAAAACCCCAAGGA AGGCCGGAAAAAAGGCCCCAGAGCACCAGCCCCGGGAAAGBA A GAAAGGGGGGAAGGGGGGGGGGTTAAGGGGAAGGAAGAAAA
 A G G G G A A A A G G A G A G G G A G A A A A A A A G G G A A G G A A GAA A A G A ACCGGCCGGAAAAAACCCCGGGGGGTAGCGGGGGGAACAAGG G G G G G A G G G G G A A A A A A A A GA G GAGGGAAA A A GAA A GAA A G A AAAAGCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAGGAG GAGAGCCGGGAAAATGAAGGAGGAAGGGGGGAAGAAGAAGGG A G G G GCC $C$ G $\operatorname{CA} A A G G G A A G G G G A A G G G A G A A G G G A G A G A A G G G$ A A G G A A G G G G A A A G GAA $A \operatorname{GGGAAGCCAAGGAAAAAGGGAACAA}$ GGGAAACAGGGAAAACCGGAAACAAGAGGAAAAAACCAAGAA
 AAAAAAAAAAGAGGGAGGGGGAAGGGGAAGGGGGAAAGGGGG GAGGGAGAAAACCAAAGGGGGAGAACCGGCAAGAACCGGGGG GAAAACCAAAAGGGGGCAGCAACGAGAGGCCGAGGAGGGGGG G GAAGGACCAGGACCGGGGAAAAAGACGGGGAAGGGAGAACA A GAGGCCGGAGAAACAAAAGGGAGAAGAAAGAAAA GGGGGGA AAAAACAAAAAGGAAGGGAGGAACAAACAGGCCAAGGAGGGG GGGCCAAACAACGGACAGAAAGGGAGAGAAGGACCGGAGGGG AAAGGGGAAGGAACCGGGGGAGGGGGGCCAAGGAACAAAGAA GAAATAGGCGGGGGGAAAAAAAACCAGAGAAAGACCAAAAAA AA $A G G G G A A G A A A A G A A C C A G G G A A T A G G G A A A A A A A A A C A C$ C G A G G G G A G G G GA G GAAGGGGAAGGCCAAGGGGAAGAAAAAA AAACAAACCAAGAGAAAAGAAAAGGGGAGGGAAAAAGAAACA $A G G G G G G A A G G G G A A G G A A A A G G A G G G G G A C G A G A C C A G A A G$ G G GAAGAGAGGAGGGCAAAAGAACGCCAACCAAGGAGCAABAA GAACCAACAGAGAAGAAAAGGAAGGAGGGACTTCCGAAAAAA A A A G G G G G GAAAAAAGAAAAAAGAGGACCGGAGBAAGGAA GA AGGGGCACCAAGGGGGGAAAAGGAAAAAAAAAAGAGGAGAAA

GAGAAAAAAGGCCCCGAAGGAACGAAAAAAAGGGGAAAAGAA
 AAGAAACCCAAAGGGAAACGGAGGAAGGGAAAGACGAAGAAG G G GCCAAGAAGGGACAAAGAGACGAGGGGCAAAAAGGGAAAC C G GAA A GAA $A \operatorname{A} G \mathrm{G}$ GAAGGGGGGCCGGGGGGGGAAGGGGAAAAA A A A G G G G A A C C A A $\mathcal{A} G G G G G A A A A G G A A G G A A G G A A A A A A A A A$ A G G A A A A A A G G A A A A A A $\mathcal{A} G G G G G G G A A A A G G G G G G G G A B A A G$ GAACCGGAAAAAAGGGGGGCCGGGGAAGGAAGGGGAAGAAAA A A A G G A A A A A A G G A A A A G G A A GGCCGGAAAAAAGGAAAAAAG G G G G G G GAAGGAAAAGGAAGGAAGGAAGGGGAAAAAAAAGGG G G GAAAAAAGGGGGGCCAAGGAAAAAAGGGGAAGAAAAAAGG A G G G G A A GAGAGGAAAACCAGAAGGACAAAGAGGAGAAGAAG AAACAGGAACCGGAAAACAAAAAGAGGGGGGAGAAAAAAGAA GAGCCGGAGAAGAAGAGAAAGGAAGGAAAGGGGGAGAAAGAA GCAAAGAAGAAAAGGGGCACAAGGGACGGAAAGAAGAGAAGA G G G GAA A A A A G GAA A GAGGCAGGAGGAAGAAAA GAGAGAAA G GAACAGGGAGGAGGAGGAAAAGGCCGGAAGGAAAAAAGAACA A GAA A G GCCAAGAGGAAAAGACCAGGAGGCAGGGGAGAAAAC CAAGGAACAGGAAGGAAAGAAGGAAGGAAAAAAGGAAAAGGG G G G G G G G A G G G A G A A G G G A A C G G C C A A GAAA A G G G G G A G C A G GAAAGGGAACCAAGGGAAGGGAGGGCCGAAGAAGAAAGAGAC CAAGGGGAGACAGAACCGGGGACGACCGAAGAGGAAAGGGGG G G G G G A A G A G G A A G G C A A A GAA A CAAGGGGGGGAAA A A GAAA A G G A A A A $\mathcal{A} G G G T T G G G G G A G G G A A A A A A G G A A A G G G A A C A A A$ GACGAGGAAGGAACCGGAGCCAAAAGAAGGAGGGGGGGAAAA A A GAGGAAGCCAACCAGAGAAGGACGAGGCCGGAAAAGAAAAA G G G G G A G T T G G G GC CAGGGAACCGGCCACAGAACCAGAGGGC A G G A G G G G A G G CAA $A \operatorname{A} A G C C G A G G G G C C A A G G A A G G A G A C G G G$ GAAAGGACCAAGGGGGAGGAACCAAAACAACCAAAGGCCGAA A G G GAGAGGACGGAAGGGAGAGGAGAAGGAAAGAAGAGAAAA G G A G G A A G G G G G A G G A A A A G G G G A G A A G G C C G G G A C A C C A G A AAAAAGGAAAAAGAAAGGGAAAAAGGGAAGGGGAGAGAGGAAA
 CAAGGCCGGGGGAGGAAGAGGCCACGGGGAAGGGGAAAAGGG G G G A A C C A G A C GAGAAGGGGAGGAAGGGAGGAACCAAAAAAA
 A ACAGAAGGGGGGAGCCGAAAAAAAAGAAGAGAAAAAGGGGC CAAAAAAAAGGGAGGGGAAAGAAAAAAGGAGAGGGAAGAGAG
 GAAGAAGCAACAAAGAGCCAGGGAAGAACGGAAGGGGAGGBA AAAG $A \operatorname{AAAAAGGGAGGAGAAGGGGGAGGGAGGAAAAGGGAGGC}$ A C A G G G G A G G G G G A A $\mathcal{A} G G G A G A G A A G G G G G G G G G G C A A C G A G$
 GA $A$ A A $\mathcal{A} G G G G G G G A A G G G G G G A G A G G A G A G G C A C A G G A A G G C$ CAAGAAAGGAACCGGAAAAGGACGGAGAAGAAGAAAAGAACA A A A G A A A G GAAAGCCAAGAAAGGAAAAGGGGGGACAACAAAA AAAGGGAGAGGGGAAAAGAAAAGAAGGAGGGGGGGAAAAAAA CAACAAAACAAAGAGAAGGGAGGAACCGGAGAGGGCAAAGGG A GAGGAAAGAAAAGAGAGGAAGAAAAAGGGGCCGGGGCAGAA A A G G G G G G G G G G G C C G G A G A G A G G GAA A A GAGAGGGGAA A A A A A A A A A A A ACAAAAAAAACACGGAAAAGGGAAAGBAAAGAAG A A A A A G G A A A G GAAGGACAGGAAGAAAGACCGGCCAAAGGAA T G G A A G A $\mathcal{A} G G G G A G A A G A A G G G G A A G G G G G G A A C C G G$
C C G G G G A A G G A A A A A A G G G G G G A G GAGAGAAGAAAACAAGA
 GAAA A A $A$ A $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G A A A A A G G G G A G A A A G A G G A G G G G G A T$ TCAGGGGGAGAAAGACCAAGGGACAAAGGGACCAGGAGAGAG GAACAGGAGGGGGGAAAGAAAAAGAGGCCAAAGCCGGGAAC C $A G A G A G G A A G G A G G G A A A A A A A A G G G G G G A A C C A A A A G G C C A$

ACAAAGGAAAAGAGGGAGAGGGAAGGAAGAAGGGGGAAAAAG A A A A G G G A GAA $A \operatorname{GA} A \mathrm{~A} G A A A G G T A A A G G A G A G G A A C G A G A G A A$

 AAAGGAGGGAAAAGAAGCCAGGAGGCAAGCCGGAGGGAGAAA A A A A G G G A G G G G G G G G G A A A C GACCGGGACAA GCC G G G G C A T A A GA $\operatorname{A} A A A G G G G G A A G G G A C C G A A A G G G G A G A G A A G G A A A A C$ CAAGGGAGGGGGGAGAAAAAGAAAAAAGGGGGAACCGGAAGA A A A G G A C C C G G A G A A G GAGCCAGGAAGGGAAAGGGGAAAAAG GACAGAAACGGAGGAAAAAAAGGGGAGAGAGACGGGGAGAGC $C \subset C G G A G G G A A A A A G C A G G C G A A C A G A A A G G G G A A A A A G C C G$ $A C C A G A A A G G G G A A A A G G G G G G G A A G G A C A G G G G G A G A G A A A$ G G G G G G A G G A A G G G GAA A GACGGCCAAAAGGAAAAGAAACAA A G GACAAGAGGGAAGGAGGAGGGGACCAAAACCGGAAGAAAC C CAAACCAGCACCAAAGAAGGAACAAGGGGGAAGAGGGAACA G GACAGGACGGCCCCCCGGAAGGGGAGGAAAAAAACAGAAAG G GAGGCAAGAGACCAAACCAAGGAAGGGAAAGGGGAAGAGGG A A C A A A A G A G A A G A A A A A GAA G GAAGGGGAGAA GA GA GA GA A $A G G A A G G G A G A G G G G A A A G G G A A G A G G A A A A G G G G G G G A A A A$ A A A T T G G G G A A A G G G A A G G A G G G A C A A A A G G G G C C C C G G G G A A A A A A G GAACCCC G $\mathcal{A} G G G A G A A G G G A G G G G A A G G G G G A G G G G G$ G G GAACCAAAAGAGGGGCCGGGACCGGAACCAAGGAAAGGGA A G G A A G G A GA GAGGAAGAGGAAAGGCAAGGGCACACAAAGAA AACGAGGCACCAGAGAAAAGGAAAAACGGAGAGAGAGAAAC G A A G G G G A G A A A A A A A G G G G G G A A C C G GAACCAA A GAA G GAA A GAAA A GAA $A$ A $A \operatorname{A} A T G G A G G G A G A A A A A G A A G G C C G G G G G G G G A$ A G GAGAAGGCCAGAGCCCAGGTTAGGAGGAGAAAACCGGGGA G G A A A C A A G G GCCAAAAAAAGGGCCAGAAAAAAGA GAA GGGG A G G G G A A C A A G G G G GAAAAAAAAAGGGGAGGGGGGGGAGGGGT AAAAAAAAAAACCGGGGGGAGGAGAGGGAGAGGGGAAGAAGA G GAGGACGGGGCCGGAAAAAAAAAAGGAAGGGGGGAGAAAAA AAGAAAAAGAGGAGAAGGGGACCGGGGGAGGGGAGGGAGAGA GAAGGGGAAAGCCAAAAGGAAAAGGAAAAAGCAGGAAGAAGA A GAAA $A \operatorname{G} G A G G G G A A T A C C G G A T G G A C C A G G G G A A G G G A A A A$ ACCAAAAAAAGAAAAAGGCAAAAAGCAAGGGGGGAGAAAAAA
 GAAAACCGGGGAAAAGGGGCAGAAGAAAAGGGAACAACAAAC $C G G A G G G A A G G A A A A C C C A G G G A A A G G G A A A G G T T A A A A C A A$ TAAGGAAGGAAAACCCCGGAGAAAGCAAGTTAAAAAACCGGA A G GAAAAGGCCGGAACAACCAACAACCGGAGAGAAAAGGGBA $A G A G A G G G G G G G G A A G A G G A A G G A G A A G G G A C A A A G G A G A A G$ GCCGGGAGGAAGGAAAAGGAGAAAAGGCAAGGAACACGAAGG GACAGAGACAAGACCGACCGGGGAAGGAGAAACAAGGGGGGA
 GCCAACCAGGGGGACATGGAGCACACGCCAAAAGGAAAAAAA A GAA $A \operatorname{A} A C A A A A A G G A A G G A A C X A G A A G G G G A T G B A A G G A G G$ G G G G A A A G G A A GAA $A \operatorname{GGGAACCACAA} G G C A G G A G G G C A G A G G G$ G G GAA A GAA A A G GCAGGAAGGAACAGAGGAAGCCCGGCAAAA A A A A A GAA A GA A G GACCGAGGGGAAGGACGGACCAGAAACAG G GACAACGAGGGGAACCAAGGAGAAAGGAAGGAAAGGGGGGC G G GAAGGGGAACAGACAAGGAAGACGCCAAGGAGAGACAAGC AACAA $A \operatorname{AAAAAAGACCGGGGGGAAAAGGAAAAAAAAGGCAGAA}$ A A C G A A G G GAA $A \operatorname{G} \operatorname{A} A A G G A A G G A G A A G A G G A A G G G G G G B A A C C$ C GAC $\operatorname{CAAAAAGGCCGGAGGAGGAGAGGGGGAAGGCA} G G G G G G A$ G G GA $\operatorname{G} A \mathrm{~A} G A A A A A G G A A G G G A A A G G A A G A G G G G G G G A A A A G A$ $A C C G A C A A G C A A G A G G G G G A A G G G G G G A A G G A A A G G A G G G G A$ A G G A A A A G G A A G G G G G G G G G G A A G G C A G G T T G G A G C C G G G G A A G A G A G G G G G A G G T T A A A G GAAA A A A A G G G A GA C A A G G G G G A A AAAGGGAGGGAAAAAAAAAAGAAGGGGAGGAAGGAAAAGGGA

A GAAAGGGGCCGAGGACGGAAAGGAAAAAGGGGCCGGGGGGA

 GCCGGGGAAAAGGGGAAAACCGGGGAAGGGGAAGGCCGGGGC $C G A C C G G G A C C A A G G G A G G A A A A G G A A A A G A G G A A A A G C A C A$ C G A A G A A A A A A A A G G G G A G GAA A A A C CAAAAA G CA A GAAA G G G G A A G A C G A A G G G G G G A G G G G G G G G G G A G A A G G G G A G G G A A A A G G GAGGAGAAGGGGAGAGAAGGGGAAAGAAAAGGGAAAAGAG G GACC G G G G GAAAGGCCAAGGCAAGAAGAAGGGGGCCGGGGG GAAGGGGGGAACCAACCAGAAAAAGGGCAAGGGGAAGTACCA
 A G G G G A A $\mathcal{A} G G G G G A A A G G G A G G A G G A G G G C C C C G G C A A C A G A$ GAAGGCCGGCCGAGACCGGAGGGAAAAAGCCGAGGAGAGAAG A A A A A G A A C A GAGGGCAGACCAGGAGGCCAGAAAAGAAGAAA


 C G G G A A A G A A A A A G G G GAGAGGGAAGAAGACAGGAAAAGGCA CAGCCGGGGGGGGACAGGAGAAGGGGGGGGGGGAAAAAGGGG G G G G G G G G A G A C A A G A C G A G G A A A A G GACAA A A A A TA A A G G A GAGAAGGAGAGGGGGGGAAAGGAAGAGAAAAAAGAAAAAGGG G GAA A A A G G GAGGAGGAAGAAAGGAAGGAGGAAAACCGAGAA G G G A A C C G G A A G G C C A A A A G G G GCCGGCCGGGGGGAACAA C C C G G G A A A G GAACC G G G G A G G G A A A A A A GACAGGGAAAA GAAA A GAGAAGGAGAAGAAAAAACCAAAAGGGGGACACAAAAAGAA A GAGGAGAGAAAGAAGGAGCAAAGGGGGGGAAAAAGACAAAG G GAAACCAGAGGGCCATGGAAATGCAAAAAGAGGACCAAGAA $A G G C A A G A G G A G A G G A A A A G G T T A G A A G G G A A A G G G G A G A A C$ CAAAAGGGAGAGGAGAGGAAGCGGACACCGAAGAGAAAGAGG G G GAGGGGAGAGGAAAAACCCAAGAAAGGAGAGAGAGGACAA A A G G G A G G G G GCCCCAGGAAGAGAAGGGAGGAAAGCCAAGAA $C C C C A A C A A G G A A A G A A G G C C C C A G A A G A G G G G A A G G A G A A A$ GAGGGGAAGAACCAGCCCCAAGGAGGGGAGAGGGAGGGGGGG G G A A G G A A A A G A A A A G GAC GAAAA A A A A GAACAAA G G G G C C G GAAAGCACAGGGGAAGGCCCCGACCGGAAGGAAGGAAAACCC C G G A T T T A GAA A A G G A A A A A G G C G GAA G G G G CAAACC G GAA A ACCGGGAGACCGAGGAGAAGGGAGAAACCGGGACCCAAAAAA AAAGGGGAAGGAGAGAAAGGGAGAAGAGGGGAACC GAAAAAA A GAA A C C G A C G C A G A G A G G G G A A A G G G G G A G A A C C G GAAAA A GAGAGAAAACCGAGGGGACCCTAGAGGGGGGCCAAAAAGGAA GAAAGAAGAAGTAGGAGAGGGGAAAAAGGGAGGAAGGAAAAG A A G A G G G A GAGAGCCAGAGAAAGAAAGAAAAGAAAACGGGGA AGGAAGGAACCCCAGGAGGAAAAGGAGGGAAAGGGAAAAGGA G G A A A A A G G G G GAC C G G A A A A C C A A G G GAGGGAGGGACAAA G GAGGGGGGGAGAAAAGAGGAGGACCAAGAAGGAGGGGGAAAA G GACCAACCAAAAGAAGAGGAAGAGAGAAGGAGCCGGGAAABG G G G A G G G A G G G GA GAAA A A A G GAGGGAAAAAACAGGAGAA GA G G GCCAGAAGGAAGGGGAAAAAACCAGGGAAGGGGACAAGAA A G G GAAAAAAGGAGGGGGGAAAAGGGGGGGACCAGCCAAGGG A A G G G A A A A A A G G A A A A A A G G G G G CAA A A A GA GA G GA GAAA A GAGAAGGAGGGAAGAGAGAGGAAAAGGGGGGAAGGAAGAGAA
 A G A C C G GAAGGCCCCGGAAGAAACCAAGGAAAAAAAG
G G G GCCAAAAGGGGAGGGGGACCAGAAAGAACAGCACAGGA C G G A A GACAAAAAGGGGAAGGCCGGAAAAGGAAAA GGGAGGC C C C G G A G G G A G G A G G A G G G G G A A G G A A A G A A A G G G G G G G G G A ACAAGGGAAAGGAGAAGATGAAAAGAGACGGAGGGGAAAAGAG A A G C A G G A G G A A A C C G A G A G GAGGAAAAAGGGA GACAG GATA G G G GAGGAGACGGAACAAAGGCCGGCCCACAGAGAAGGAAAG

AAGGGGGCAAAAAAAGGGGAAGAAAAGGAGGAGCCGGAAAAG G A A G G G G G A A A A A A G G G A A A G A T G GAGGGGGGGAAAA G G CA C A G GAA A A A A A G G G G CAAA A $A \operatorname{AGA} G G A G A A G G G G G A A A A A G A G A G$ G G GAAAAGGAAGGGGGGAGGAGGAAAAAAAAAACCAAGGGGA A G GAACCGGAAGGAGAAAAAGAAGGGGCCGAGGAGAGAAAAA A A A A A A G A A A A G G A A G GAAAGCCGGAAGAGAGAAGCGCAA G G
 $G G A A A G G G A C C A A G G G G G G G G T T G A G G C A G G C A G A A A C A A A G$ G G G G G A G G A G G A A A A C C G G G G G G A A G G GAA A GAAAAAACAAAA
 GACCCAGGGGGGGCCGGAGGAGGAAGGGGAAGGAAAAAAACA GAAAAAACCAAGGGGCAAAGGGGCAAAAGAAGGAGAGAAATA A GAGAAACCAAAGGGCCAGGGGGCCGGAAAGAAAAGGAACAG GAAAAAGGGGGAAAAGGGGGGGGAAGGAGAAGAGGGAAGGGA AGGGGAAAAAAAAAGAAGCAAGGCACACAAGGGGGAAAAGGA A G GAA A A G G G GCCGGAATTAAAAAAAAGAAGGACCAGAAAAA A A A A A A A A GAGGGCCGGGGGAAAGGCCAAAAAAAAAGCCCCG G GAGAACGGAGCCAAGAAGGAGCCCAAAGCCGGCCCCGGGGA GAGAAGGCCAAAGAAGAGGCAAAGGAAGGAGAGAGAAAAGAC CAAAGGGAAAAGACCGGGAAAGGGAGAAGCCGGGGGGCAAAG GACGGGGAAGGGGGGAAGGAAAAAAAACCCCGGGGAAGGGGG GCCAAGGGGCCCCAAACGGAAAAAAAGGGGGGAGGGGAAGGG G G G A A C A A A G G G G G GAAAGCC GAAAAA A GAGAATAGGGAAAG G A A A A A G G A G A A A A CAAAA A G G C G GAAAAAGGAAG GAA G GA G C C G G G G G G C C G G A G G G G A G G G G A A T T A A A G G G G G GA GA G CACA C GAGGAAAGGGGGGGAACAGGGAGGGAAAAAACCAAGAAAAAG AA $A$ A A G G G G G GAGCAGGAAAAAAGGGAAAAAAGGGGGGAAAA TAAGGCCAAAAGGAGGGGAGAAAAACAGGAGCCAAGAGGGGG G G GA GAA A A GAGGAAGAAAAGAAAAGGGAAGGAAGGAAAAAA A A A A A AC GAAGAAAAGAGACCCCGAGGCCGAAGTTAAGAGAG A G A A C A A A A G G A A A A A A A A A G GACAAAGGGGGGAAA GA G CAA GAGACAGGGACCAGAAAAAAGGGAACCAGAAGGAAAAAAGGG GAGAGGGGGAGCACCAAGAAAAGAAGGAAGAGACAGGAGAGA
 A GAGAGAGAAAAAGGCAAGACAAAAGGGAGAAGGAGGGAAGC CAGCAGAACGGAGGGAAAAGGAGCCAGGGGAAGGGAAGGGGA GAGGGCCAGAGGGGGAGAGGGCAAGAGGGAAAAGGGGAGGGG A G GAGAGAACCAAAAGAAAGAGGGGGGCCAACGGGGGGGGGG G G G G G G GCAAAAAGGAAGGCCAAGGGAAGAAAGAAGACAAAG A A G G G G G A A A C A CAAAAAAAGAGGACCGAACGGAGGAA G GAA A G G G G A A G G G A A A A A A A A C G A A C G G GAGAA G G G G G A G G G G G A A A A G G A A G A G G CA A GAGGGGGGGGGCCGGAATTAAAAAACAA GAGGGAAGGAAAAGGGAACGAAAGGAAGGGGAGAAGGCCGBA C GAA ACCAAAAGGGAGGAAAAGGGGAGCAGAGAAAGAAAAAG GA $A$ A $C$ G A $G G G G G G A A A G G G G A G G A G C C A G G G C C A A G A A A A G G$ A G G G G A A A C G A G G A A A A A A G G G G G G A A A A GAGG
$113111000-9 A A A G G G C C G G G G A G A G A A G G G G G A A A G A A G G G A$ AAAGGAAGCCCCCAAGGGGGGCAGGAAGGGAGGCCAAAAGAA ACCAAAAGGGGAAAAGGAACCGGGGAAGGCCAGAGCCGGGGA AAGCCAAGGAAAGAGAAGAAGAGAGAGACGGGGAAGGAAGAA ACAAAAAAAGGAAGGCCGGGGCCGGGGAAAAGAAAGGBAGAA $A C C A A A C G G A A C A G G G A A A A G G G G A A A G G A G A G A C A G C C G B A$ A G G A G A A $\mathcal{A} G G G G G A G G G G G G G A A G G A A A G G C G A A T A G A A A G G$ AA GAAAAAGAACCAGAAAAGAGGAACCGGAAGGCAGGCAAAG A GAGAGGAAGGGGAAGGGGAAGGAAGGAAAGCCAAGGGAAGA AAAAAGGGACCAAAAAAAAGAGGGGGGAGACGAGCGGGAAAG GAAGGAACCAGAAACCCGGAGAAGGAGAAAGCAAAAGTTGGA A A A A G G G G A A G A A C C G A G G A A A A A A CAATCCGGGGCCGGGGC A GAAACCAAAAGGAAAACCAAAAAAAAGGGGAAAACCABAAG

G G G A A G G A A G G A A A G G GAAGAGGAGACGGGGGGAAAACAAAA
 GAGAAGAGAGAGACCAAAAGGAGAAAACCGGAAGGAAAAGAG GAAGGAAAAGGGAAAGGAGAGAACCAAGGAAAAAAGGGACCG A GAGGGGGGCAACGGCGGGAGAGGGAAGGAGGGCAAGAAAAA A A A A A GAAAGGAAGGGGCCAAGGAAAAGGCCGGATGGGAAAA GAGGAGACCAAAAAACAGAGAAGGAAAAAGGCCAAAAAGAGG $G G C G A A A G G A A A A C C A C G A G G A A G G G A C C G G G G G A G B A G C C G$ GAAAAAGCCGGAACAAAGGGAAAAAGAACAGAGAACAAAAAC AAGAAGGGAAAGGGGCCAAAAGGGGAAGGAAAAAGAAAAAAC CAA $A \operatorname{GAAA} A A A G G G G C C A A A A G G A A A A G G G G T T A A A A A A G G A$ A G G A A G G G G G G G G A A G G G G G G A A G G G G A A G GAA $A$ G A A A A G G C C G G G G A A G G T T A A A A G G G G G G A A A A C CAAAAAAAAACAAAGGG GAAGGAAAAGGAACCGGAAAAGGGGCCGGAAAACCAAGAAAG G G GAA $A \operatorname{GGGAACCA} A A A A A A A C C G G C C A A G G A A G G A A G G G G A$ A G G G G G G G GAA $A \operatorname{GGGAA} C C G G A A C C C C G G G G A A A A G G A A G G C$ CAACCGGCCCCAAAAAAAAGGAAGGAAACAAAAACAGGGGGA GCAAAAAGGAAGAACGGAGGGGAGGAAAAGGGAAGGGAGGGA A G G G G GAAAAGCCAAGAAAAGAAAGGGGGAAAAGGCCAAAGAG GAAGAAACCGGAAGGGGAAAAACAGGGGGCXAAAAGGCAGAA A G G G G GAGGGGAAAGGGAAGGGGGGCAATAGAAAAAGGAGAC AAAAAGGAAAAAAAAAAGGGGAAAGAAAAAGAAA GAGA GAA G A A A A A GAGGCCGAGGGGAGCAGAAACCAGAGAAGACCGGGGG GAAGGAGCCAACCAAGGGGCCGGGGAAGGAAGGCCGGACAAA A GAACCCAGCAGAGAAGAGAAGGAAAAGGAAGGGGGAAAAAG GAAGGGGATGAGGAGGGAAGGGGGAGGAAAAAGAAAAACAAA G GAAAAAGGAAGGGGAGAGAAGGGGAGGGCCGGGGGGGGGGA AAAGGGGAAGGAAAAAAGGAAAAAAAGAAACGGCCAGGAGAA A A G G A G G G GAA $A \operatorname{GGG} G \mathrm{G}$ GACAGAGGGGAAGGAGGCAAAAACAA C G G GAGGAGAACCAGGGACAAGAAAGGGGGGAGAGAAAAAGC A G G A C C A A GAA $A \operatorname{GAA} C \subset A A G G G G A G G G C C G A A G G G A A G G G G A$ AAACCGGAAGGGGAAAAAAGAAACCAAGGGGCCCCGAGAAAG GAAAAAAAAAAGGAAGGCCGGGGAACCAAAAGGGGCCGAGAA A G GAA A GAGGGGGAAAAAGAGAACCCCGGGGAAGAGACAAAA GAGGGGGCGGGAAAAAGAGAAAAAAGGACGAACGGAACAAAA A A A A A A A A A A G GC GAGAGAAGAGGAGGGACCGAAAAAGAAGG AA $A G A G A A G A G G G A G A C A A G G A G G G A G G A A G A A A G A C B C A A G$ GAGGAGAAGAACCGGAAAGAAAAGGAGGGAAGAACGGGGGGA G G GCCGGCCAAGGGAGAGGAAGAAAGAAAAAGGAAAACCGGG A A GA $\operatorname{A} G A A A C A A A A C A A C C A G G G G G C C A A A A A A G G C C A A G G G$ GAAGGGAGAGACCGGCCGGGGGGCCCCAAGAAAAACCAAAAA G GAGGAAGGAAGAAGGAAAACGAAAAGAAGGAAAAGGAAAAA G G GAACCGGGGCCAAAGGAAAGAAACCCCGGCCGGGGGGGGG GAA $A$ A A A A A A A A A G GAAA GAGAAAGGGAGGACA GAGGGAGAA GAAAGGGCCCACCCCCGCAGGGGAAAAAGAAAAAAGGAAGAA
 AAGCAACGGAAAAAAAAGGGGGGAAGGGGGGAGACAGGAACB GAAAGAAGGGGCAAAGGAAGGGGCCAAGGAAAAAACCAAAGG GCCAAGGAGGGGAAAAAAACCGGGGAACCAAGGGGAGCGGGA GAAAAAAGGAAAAGAAGGGTTGGATGAAAAAAAAAAAAACCG G G G G G G G A A A A A A C A G A GAAGGGAGGAACAAGGAAAAAAGGG G G G G G A A A A G G G G A A G G G GCC C C G G G G G G G G C C G G G G G G A A G GAAAAGGAATTAAAAGGAAAAGGAAAAGGGGGGAGAGAGAAA A G GAGAAGGCCGAAAAAGAAAAAGGGGCCGGGGAAAAGAAAC
 $A G G A A G A A G G G G G A A G G A A G G G G G A A G A A A C A A A G G A G G G G G$ $G C C A A A A G G A A A G A G A A A A G A C C A A A A A A A G G A A G C C A G G G A$ A G G G G A A A A A A A A A A A A A A A A A A C C GAAA G G G G G G GAAA A G A A G GAA A G GAAAAAAAGGAGGACCGGGGCAGGGAGGCCCAAGG

G G GAA A G G G G GAAGGAAGGAAGGGGCCGAAAAAGAGAAAAAG GAAAAAGGGAGGAGGAGGGCCGGGGGGAAAGCCAACCAAGGG G GATTGGGGAAGGGGCCGAAAGAAAGGGGGAAGGGGAAAAGA GGGCAGAGGGAAGAAGGAAGGAAGGCAGAAAAAAGAAGGGGA TAGGGAGGGAAAGGAGAGAGGGGAAAAAAACGGGGGAAGAAA A G G G G G G A A G G G G C C G G G G A A G G G A CAG GAAACAAC A A A A $\mathcal{A} G$ GAGGAGGAGGGAGAAAAAGAGCAAGGGAGAGAAAAAAGGGGC
 GAGGGAGCGGACAAAGACCAACCAGAGAAGAAAGGGAAGACA A GAGAAAGGGGAAAAGGGAAAGGGAAAGAGGAAGGAAGAGAA
 A G GA $\operatorname{l} C A A A A G A A G G G A A C C A G G A A G G A A G G G G G G A A A A G B A$ TGAGGCCGAGGATAAGGACCGTAGAGGAAGGAAAAAAAAAAA A G G A A A G G G G G A A A A G A A A GGACAAAAAAGGGAGAGGAAAAA GATGACAACGGGGAATTAGAAGGCCGGGGAAGGGGGCAGCCG G G G G GA GAAGGTAGGAACCAGAAAAAGAAAAAA GAA GAA GAC CAACCAGGAAAGAGGGAGAAGAAAGAAGAACGGATGGGGGGG A A A A A GAGAGGAGGGAAGAGGGAAAAAGGGGAAAAGAGAGAC CAACCGGACGAGGGAGGAAAAGAAAAGACGGACAGCAAAAAG GAAGGGGAAAGGGAAAGTTCCAAAGTAAAAACCGGGAAAGGG GAAAAGGAAAAGGAAGGCCCCAAGGAAACGGAATAAAGGGGA G $G A A C A G G G G G G G G G A G G G G G A A A A G G G G G G G G G G C C A A G A A$ AA $A$ A $\operatorname{A} G A G A G A G A C A G G C C G A G G A A A A A G A G A G A A A A A A A G C$ CAACCAAGGGGAGCCCCGGAGGAAAAACAGAGGGGAAGAAGAG A A A C C CAA A A GAG GAGGTTACGAGAGGACACCAAGCAAAAC G GAGGGACCCAACCGGAAAGAAAGAAGGAAAAGGAAGGGGGGG GAAAAGGGAGGAAACAGAAAGAAAGAAAAGAGAGGGGAACAG A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A A G G A A C A G A G G G G G G G G A G A A A A A C$ C G GCCAAAGCAAGGGGGGGCCGGGCATAAGGGGCAGGAAAAG AAGGAAGGACAGAGAGAGGAAAAGGAAGGGAAGACAAACCAA A A C C A GAA A G G G G C C G G G G G G A A C C G G G A A G G G G G A G A G G G C A G G G G GAA A ACAGAACAAGAAAAGGACGGCCGGAAGGAAAAC C G GAA $A \operatorname{GAA} \mathrm{~A}$ G G GAAAAGGAAAAACAGCAGAACAGGGGAGGG G GACCAAGGAAAGGGAAGGAGGGGAGGCCAGAGAAGGACGAG GAAGGGGGGAGCAGGGGGAGGCCAGACGGCCAGGGAAGGGGA AAAGGGAGGGGCCGGACAGCCAAGAGAAACCGAGACAGAGAC CAC G GAAGGCAGGCAGGGGAAACAGGGAGCAACGGGGAGGGG GAGGAA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A A C \subset A G G G G A A A G G A A G A A A G G G A A A G$
 GAAACAAAAAGAACAAAGGGGCAAACCCCCCAAAAAACCGGG GAAACAAGGGGAAAAAAGGGGAACCAAAACCGGGGGGGAAAC C C C G G A A G G G GCCAAAAAGGGGGAAAAGGAACCAAAAAAAAA A A A A A A A G GAA G GAAGGAAGGAAGGGGAACCGGAACCGGGGA A G G A A A A G G G G G G A A G G G GCCCCGGGGAAGGAAG GAACAAAA $A G G A A C C G G G G A A G G G G G G A A G G A A G G A A G G G G G G G G A G A A G$ GGGCCAAAAAAAAAAAAAAAAAACCGGAAAAAAAAGG
A A A A A A G G G G G GGGGGAAAAAAAAAAGGGGCCGGAAAAAAG GACCAAAAAGGACAGGGGGAAAGGGGGGAAGACCAACAGAGC
 G G G A G A A A A G GCC G GAAAAAAAAAGGCCAAAAGGCAAAACGBA GAGGGCGAGAGAGAGAAAGGGCCAGACGGCACCGGGGAGACC A G GAGGGAAAAAGCAAAGGAGGAGGAGAAAAGACAAGCCGGG GAA $A \operatorname{G} A A G G A A A G G G G G A A G G G G A A G G G G A G G G G G G G G G G G G$ G G GCCAAAGGGGAACATCAGATTAGGAATAAAAGGAAAAAAG G G G G G G G G G G G G G G G A A G G G G A A A A A A A A A G G G G G G A C G G G G G GAAAAGGGGGGCGGCCCGGAAGGAAAAGGAAGGGGGACAAAA GAAGGAGAAACGAGGAAGGCCGGGGAAAAAGAAAAGGCAAAG G G G A A A A G A G A A G G G G G G A A A G G A A G A A A G G G G G G G G A G C C A $A A A C C G A A G G G A G A A A A G A G G G G A G A A A A G A G G A G G G A A A A G$

GAAAAAAGGGGGGAGCCGGCCAAGGCCGGAGCCGGGGAAGAA A G G A A G G G A G G A G G GCCGAGGAGAAAGAAGGAAGGAAAAAAG A A A G GCCTTACACGAAAGGGAGGGGAACCAAAGGGATAAGGG G GAGGAGGAAAAAAGAAAAGAAGAAAGCAGAGGAGGACAGGA A A A A A A A G GAAAGAAGGAGCCGGGACCGGAAGAAAAAGAACA A GACCCCAAGAAAAAAAAAAGGGAAGGAGAGAGGGGGGGGGA
 AGGAGAAAAAAGGGGAAAAGAAGGACAGGAAAAAGAGGAAGA G GAGGAAAGAAAAAAAAGGGGGCAAAGAAGGGGGACAAAAGA GAAAAAGGGAAAAAAGAAAGGGGAAGGAAAAGGGGAAAACCG
 G G G G G A A A A G GCCAACCGAAGGAACCACAGGAACCCCAACAA GAAA A A G A GAAAGGGAGGGAAGGAAGGAAAAGGAGGAAAGAG $G G A A G G A C C G G A G G A A G G G G G A G A G A G C G G A G G A C A G G A A A G$ A G G GACAGGGAAGGATXAGAGAAGAAGGGAAGGAGGGCAAGC $C \subset A G A A C A A A A G G A A A A A A C C A A G G A A G G A G G G G G A G G G A G G$ GACAAGGAAGCAAGAAAGAGGGGGAGAGAAGAAGGAAA GAAA A G GAAGGCCAAGGCCCCGGAGGGGGAAAAGGAAAAAAGAAAC CAAAAAAGGGGAAAAAAAAGGAAGGGGAAAAAAAAAAAAGGC
 GAAGGGGAACCTTGGACCCGGGACCAACAGACAGGGAGAAAA GAAA A A A GAGGAGGAGAGGGGAGAGAAAAAGGGCCGGCAAGG GCCGACCGGAGGGAGGGAAAGGAAGAGCXAGGGAAGACAAGB GAACGGGGGAGAGGGAATTAAAGGAGGGGAAGGAAAACAAAA AAAAAGGAAGGAAAAAAAAGGCCGGGCAGAAAGGACAAGAAG GCAGGGGAAAAAAAGAACCGGGAAGCCACAAGGGGACAAAAAA AA GAAAAAACCGGGAGAAAAGAAAGGAAAAAGAAAAAAGGCG AACGGAGCCAACCAAAAAACCAAGGAGCCGGGGGGGAAAAGA AAAGGAAGGAAAACCAAAAAAGGGGAACCCCAAAACCCCGBAA A G GAAAAGGGGTTAAGGAAAAGGAAGGAAGGGGAACCGGGGA

 $A C C A A A A G G G G G G G G A A G G A A C C G G A A G G C C A A A A A A G G G G G$ GAAAAAAAAAAAAAAGGAAAAAAAAGGGGGGAAAAAAGAAAG GAAGGGGAAGGAAAAAAGGGGAAGGAAGGCCAAGGGGGAAAG GCCAAAAGGAACCCCGGGGAAGGAAAACCAAGGAACCGGGGG G G G G G T T G GCCGGAAGGGGAAGGAAAAAAGGGGAAAAAAAAC AAAAGCCCCGGAAGGGGCCGGGAAGCCGGAAGAGGGGAAAAG GAAGGCCAAAGAAAGAGAAGAAAGGAAAACAGGAAGGGAAAG GAACCGGAGGGAGCCAAGGAGGAAAAGACGAGGACAAGAGAA A G G A A C C A A G G G G C C G G G G G G A GAAAGAGAGAAGGAAAAAG G GACGGAAGGGGGGAAAAGGAAGGAAAAGAAGAACAGAAAGAA GAAAAGAGGGGAAGGGGGGAAGACAGAAGAAAGGAGAAAGAA G G G G G G G A G G A G G A A G G A CAGAGCAAGGAAAGAGGGGCC GAC

 AGGAGAACAGACGCCAGGGAAAAGGAAAGAAAAAGAAGGGGT TGGAGCAGGAGCAGGCCACGGAAGACCGAGAGGGAGAAAAAA GAAACTTAGGAAGAACCGGAAAAGGAGAGCAGAAGGGAGAAC CAAAGCGGGAGGAAAAAAAAGAACAACGAAGAAGGGGAAA GA C CAAC $A \operatorname{A} A G \operatorname{A} A G G G G G G G G G C A A G G G G G G A A G G A G G A G G A A G A$ AGAACGAGGCCAAACAGGAGGAAGAGGAAGGCCGGAAGAAAA
 AAACGAGAAGGGGGAAGGAAGGGAAAACCAAGGGGGAAAAAC C G G G G A A G A GACACATACCGGGGAAGGATCCCCCCGAGAAAA CAAGAGGAGAGGGAAAAAGTACAAAGGAAGGGGAGAACAAGA A G G A A A A A A C C G GAAAA $A \operatorname{AGAA} G G A A A G A A G G A A A A A A G G G G G$ GA $A \operatorname{A} A G G G G G G G G A G G A A G A A A G G A G G G G G G G G A A G A G A G A G$ $G G A A A G G A G G G A G G G G A G G A A G G G G G G G G A A G G A A A A A A G G G$

G G G A A C A A A A G G G G G G GAGGGGAAAAAAGGGAGGGAGGGAGA
 A GAGGAACCGGAAAATTAAGAAATTTTCCAGAAAAGGAGGAG G G GAAGAAGAGAAGGAGTTACAGAGACAGTACCAGGAAAAGA GAGAAGGAAGGGGGACCGAAAGACCAAGAGAACAAGGGGAGG G G G GAACAACAAAAAAGGGAAAAGAGAAAAGAAGGGGAAAC G GAGAGCGAAAAAGGAACAAGGGGGGGGGGAACAGAGGAAAAG $G G A A A A G G G G A G G A A G G A A G G A A C C A A G G G G A A A A A G A T A C B$ GCCGACCAAAAAGAAAAGGGAGAGGGGAAAACAAACCAGAGA GAGAAAGAGGGGGAAAAGGAAAAGAGGCAAGGGAACAGAATA AACAGCCGGGGAAAAAAGGAAGGGAAAGGAAAAGGAAGGGGA AAAACGAGGAAGGGGGGGCCAAGAAGACCAGGGGGAACCGGA

 TGGAGGGCCAGAGGACCGAACCAGAAGAAAACCCCTAGGTAA TAAAAAAAGCAGACAAGGAAGAGAGCACAGAAAAAGGGGGGA G G G G G A A A G GAA $A \operatorname{GGA} A G A C C G A A A G G G A G G A A A G A A A G A A A$ A G G A G A A G A CA G GCAGACCAAGGGGGGAAAAGGAAAGGAAGA $A G G G G C C G A G G A T A G G A G A A A G A C C G G G G G G G G C A G A A A G G A$ A A A C C A A G G G G G G A G A A A A G G A A A A C C A A C C G G T T G G A A G G A A G G GAAAAAGGAACCAAAAAGGGGGAAAAAAAGAGAAGGAGA AAGGAAGGACCGGAGGAAGAAAACCCCACGAAATTGGGAGAA A GAA ACAGAAGCAGGGGGAGCAGAGGGAAGGGGCCGGGGGGA GAGCACAGGGAGGGGGGAAGGCCAAGGAAAAAGGGAGGAACA A GAAGGGCCAAAAAAAACCGAAACCGGGGCCGGACAAGBAAA
 G G GAA $A \operatorname{GGGGA} C G A G C C A G G A A A C C A G A A A A C C A G C C G G G A G$ A G GAA A A A A A G G GAGAGAGAAAAAGCCAAGAAAGAAAAAAGA GAAAAAAGGCCGGAGGAGGGAAGGGGGAAGGCCAGGGGAAAA AAAGGCCAAAAGAGGACAAAGCCAGGACGGGGGGGAAAAGGA A G G G G A G A G G C G G G G A G A A A A A A G G G A C C A A A A G G G G C C G G A A GAGGAAAATTAAGAAACCGGGAAATAGGGAAGCAAAAAGGA AAAAAAACCCCGACAAAGGGGAGGAGAAGGAACCCGGAGGAA A G GCCAAAGGACCACAGAAGGCCGGCAAAGAGGCCAAAAGBA CA $\operatorname{G} A A A A A A G G C C G G C C A A A A G G C C G G A A G G G G G A G A G G G G A$ A G G A G GAA $A \operatorname{CC} C A A G G A A G G A A G A C A A A A A C C A A G G A A A G A C B$ GAGCCAGAGGGAGAGAAGGCCGGGGAAAGAACCAAAAAAACB A A A A A GAAAAGGGGGCCGGAAAACAGGAAGGGGAATTGAAAA $A C C C C G G C C A G G A G A G A A C A A A A G G A A A A A G G A A A A A A A A A G$ A A G A G T T G A A A A A G G G A A A A G G G G A A A G G A G C A G G C C A G G A A A G G G G G G G G GACCGGAAACAGACGGTAAGGAGGCCGGAAGAG A A C G G G A A A A G A G A G G G G G A A A A A GAC G G A G A A G G G A G A A A G A GAAAGGGAATCAAAAAAAAAAAGGGGAAAACCATAAAACCG GAAAAAAGAAAAAAGGGCCCCGGTTGGAACAAAAAGGGGGCG G G G A A A A G GAACGCCAAAAAGGGGGGGGAGAGGAACCAAGAT TAA A A $A \operatorname{A} A A G G G G A A A G G G G A G G A G A A G G G A T T G G G A$
GAAAGGAAGACCGGAGGGAAGGGGGGGGAACCGGGGAACCA AAGCCAAAGCCGACCAAGGGGCAGGAGAACACAGAGGGGGAG G G G GAA $A \operatorname{GGA} A A C A G A G G A A A G G A A A G A A A A A A G G A A G A A A A$ G G G A C A A A G G G A A A A G GACGAGGCCAAAAGGACGGAAAATX G G G G G G A A G GAAAAAAACGACACCAAGGGGGACCAGAACAAAT TAAAACCGGAAAGAAGAGGAACAGAGAAAAGAGAGGGAAAAA G G G A A A A G G A A A A G G A A G G G A A A A A $\mathcal{A} G G G A G G G G A G A G A G G G$ AAGCCAAGGGGAAAACCCCGGGGACGGGAAAAAGGGGGGGGA AAAAAGGAAAAGGAAGGCAAGGAAGACGGGGGGTTAAAGAAG GAGGGGGAAGGAAAGAAAAGGACAAGGGGGGGGAAAA GAAAG A G GAGGCGGCCAAAGGGAGAGACAAAGGGAGAAAAGGGGGGA GAAGGGACAAGGGCAAAGGAGAAAAGAACGGAAAAGGGAAAB GAAGGAGACGGGGCCAGGGCAGAAGGGAAAGGAAAAGAAAGA

G G G GAAGCACAAGGGGCAGGGCAGGGGAAGGGGAGAAGACCC
 G G G G G A A G G A C G G A A C G A G GA G G G GAAAA A G G GAAAAA A A G A CAGGAAGAGTAAAGAGGGAGAGAAGGGACAAGAAAATGGGGA AAAGGAAGGAAGGAGAAAAAAAAAGGGGGCGAGACTTAAAGA G G GAGAGAAGGAAGACCGGAGGGACGGAACCAGGAGAGAAAG A A A G A A GACGAGAACAAAAAAAAGGAATTCCAAGGAACAAAA C G GAGAGGACCAGGAAGGGCCAAGGGAAGAGAAGGGAGAAAC C T TAAA A G A A G A A A GAGGGAGGGGGAAGGAAACAAAAGAAAG AGACCCCAAAAGGAGAAAAAAAAAACCAACACAAGGACAAAG A A C A A G G G A G A A G G GAA $A \subset G A G G G A G G G G A G A G G A G A A G G G G$ G GAAAAAGGAGGAAGAACCAAGGGACCGGAGAGCCAGCAAGB GAAAGAGCCGGCCGAACGAGAGAGGACGGGGGGGGCACAAAA $G C C A A G G G C G A A A C G G A G A G G A C A A A A A G A A A A C C G G G G G G A$ ACA $C A A G A G G G A A G G G A A A G G A A A G G G A A A A G G G G G G G A A G A$ G GAGGAAGGCCAACCAGGGGGGGAGAAACGAAGGGGAGAGGG CAGAGAAAAAGAACAGGAAAAAAGGGGAGAAGAACCCCCGGG A CAAAAAAGAGGAGAGGGGAAGGAAGGGGGGAAGGGACAAAA AACAGGGAGAAAAGGAGAAAAAGGAAAGGGGAAAAAAGGGGG GGGCCAAGGAAGGGGAGGAGAGGAGAGAAAGAAGAGGGAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGGAAGAGAGCACAAGAA CAA A G G G GAGGGGAAGAAAGGGGGGAAGGAGAGAAAAAGAAG ACCAAGAGAGAAAAGCCGGAAAAAAGGACGGAGAAAAAAAAG $G G A A A C C G G G G G G A A G G A A G G A G A C A A A A A G A C A A G A G G G G G$ A G G A A A A A GCCAGAACGGAAGAGGGGGGGAAGGGAAGAAAA G GAGGGAGGGGGAAAGAGGGACGAGAGAAAAAAAAAAAGACCG AAAAGAAAGGAAGGGGAAAACAGGAGAGGAAAGACGGGACAA AAGGGAACCAGCCAGGGGAAAAGCCGGAAGGACAAGAGAAAG ACCGGAGGGAGGAGAGAAGTTAGAAAAAGGAGAAGCCAAAGA AAAGGAGCCACGGAAAAGGGAAGGGGGAAGGAACCGAAAGAA
 G G GAA A A A A G GAAAAGGGGAGAGAAAAAACAGGCCGAAGAGA GAGGGAGAGGGAGAAGGGGAGGGGGAAGGCCGGTTGGAAACA A A A A A G G A A G A A A G G G A A A A A G G A A GAGGAAGGCACA GAAAA

 G GAAAGGGGGAGAAGACAAAAGGAAGAGAAACAAAAAAAAAG GAAGGAAAAAAGGGGAGGGAGGAAGGGGGAAGGGGAAAACAA A A A A CAAAGAAGGAAGAAGGAAAAGAAACGGAGCCAAAAAAG GACGAGGAACAAAAAGGAAGAAGGGGGAAAAGGAAAAAAAGG G GAAAACGGCCGAGGACGGCCGGAAAGAAAGAGGAAAAAGAA
 $C G A G A A A G A G A G A A G A A G G G G G G A C A C G G G G A A G G G G G A A A C$

 A G G A A G GAAAGCAGGAAACAAAAGGGACCAAGAAAGGAGAGC A G G G G GAAAAACCACAGGAAGGGGGAAAAAACCATAAGACAA A G G G G G GACAA $A \operatorname{A} \operatorname{A} A A G A A A A G G A G G G A G G G G A A G A A G A G A A G$ GAA A A G G G GAA $A \operatorname{A} G A A A A A A G G A A G G G G G G G G G G G G G A A G A G G$ GAAAAGGGGGGGAAACCGAAGGGAACCAAAAAACCGGGAAAG GAAAAAAAAGGAAAAGAGGAGAACCAAGAAAAGCAAGAAAAG A G GAGAGGAGGAAGGAAAAGAGAAGCGCAGGGGAAAAAAGAG A G G A A A A A A G A G A A A A G G A A A A G G G G G G A T T G A C CAACC C C C CAAAAAGAGGGGGGGAGGACAAAGGGGAAGGGAGGCCACAAA A A C A A A A G G G G A A G GAAAAAGAGGAAGAGAGAGAGGGAAAAG G G A A A GAAACCGGGAACGGAAAACCAAAAAGACACGCGACAA GAGAAAAAAAAGAGGGGCCGAACAAAGAAGGGAGAGGAAAAA A A GCC G G G A G G A G G A G C A G G G G A A A A GAA A A A A A G A A A A G G G A A GAAGGGGAAAGAAAAAAAAGAGAAGCCCCAAAGAGAGGGA

A G G G G GAGGGGGGCCAAAAAAAGGGCCAAAAGGAACCGAGGG GAGGGAAAAAAGGAAGGAAGGAAAAGGAAGAAGCAAAA GAAA A A A G A A A A G G GAGGGGGAGGAGGAGAGAAAAAAAGCCAAGGA
 AAAGGGGAGCCAGAGGGGAGACAAAGGAAGGGGAAGACAAAA
 GAACCAAAAGGAAGCAGGGACGGCCGAAGAGAGGGGGAAGAA AAGGGACAACACCGGAAAGGGAAGGAAAAGAAACCBAAGGAA G G A A A A T G GAA $A \operatorname{G} G A A G A A G G A A G G A G G A G G G G G G A C C A A A A$ GAACAGGAGGGGGGAGGGGGGGGGGAGAAAGAGCCGAGAGAC
 A A A G G A G G A G G A G G G G G G G G G T T A A G G A A A A C C A A G A A A G G G G GAAAGGGAGGGAGGAAGACAAGGAAAAGAAGGAAAGAAACA TAATTAGCAAGAAAAAAAGAAGGAAAAGGAGGGGGGGAGGAG A A A G G G G G G G GAGAACAAAAAAACAGGGGCCGGAACCGGGGT TAAAGGGAAAACCAAGACCAGGGGGAAAAAAAGAAGAAAAAA A G GAA A GCAGGAGAAGGCCACAAACGAAAAGTAAGAAAGGGG A G GCAA A A ACGGGAGCAAAGGAGGATTAACCGACCGAAAACG GAAGAAGGGAGCAGGAGAAGGAAGGACAGAGGGAAAACAAAC
 A A G GAA A A G G GAGGAGAAGAAAAAGGAAAGGAGCCCCAACCA AAAGGAACAAGAGGGAAAGGAAAAAAATAGGAACCGGGAGAG C C C G A A C G G G G A A A A A A A A A A G GAAAACCGGGGAGAAGAA G G C G G A C G G A A A A C C G G G G G G A A A A G G G A A A A A G G G G A A A A G G G $G G A G G A A G G G G A A G G A G A A A A A A G G G G G A G A C A G G A A A A A C B$ GAAGGAAGGGAGGGCAGAAGGAAGGATAAAAAGAGCCGEAGA GCAGGAGAAGAGAAAAGCCGGAAGGAAGGAAAGGGGGAAAAC
 G G G A G G A G GAAAAGAAAGGCCGGGGAACCGGGGAGCAGAAGG GAACCCCCAAAAGCAGAGGAAAAAGGAGGGGAAGGGAAAAGA GAAGGAAGAAAAAAAAGAGAGGGGGAAAGAAACAAGAAAGGG GACGAAAGGCCGGAAGGAAAAAACCAAGGAGAAAAGAGAGGA GTTAAAAAACAGACAACGAAACCAAAAGGGGGAGACAGGGAA $A C C G A G G G G A A G G A A A A A T C C C C G A A G G G G G A G A A G G A G A G A$
 $A C C A C A A A A A A G G C A G A T T G G G G G G G G G G A A A A G G A A G A A A A$ AGACAGAAACCGAGAAAGGGGGGGAAACAGGGGGGGAGAGGA A GAAACCAAGGACAAAAAAGGGGCCAGGGCCAAGGCCGAGGA $A C C A A A G A G A A A G A A G A G A T A G A A A G G A A A A G G A A G G G G C C G$ A G A A C C G A G G G A G A A G G G G C C G G A G G G A A A A A A A T G GAAAAA $G G A A A G G G A A G A G A G A A G G G G G A G C A A A A G G G A A A G G C A A A G$
 GAAAAGAAAAAGGAACCCCGAAACCCAGGAGAAGGAGGGAGG GCAA G A GAGAAGAGAAAGGGAGAGAACGGCCAACCAAGGGGG
 G G A A G G G TAACGGAAACGGCCGAAGAGAAAAGAAGGG
AAAAGGGGAAAAAACCGGAGGGGGGAGGAGAAAGGGAGCAA G GAA $\operatorname{GAAAAAAAAACCGGAAGGAAAAAAGGGAGGGGAAAGCAG}$ G GAGAAGGAAAGGGGAAAAGGGGAAAAGGAACCGGGGAAAAAA G G G A A A A A A A A G GAAGGGGAGGGCCCAGGAAGAAGGACAAAC
 A A A A A A A G G G G G GAGA $A \operatorname{AGGAGGGCCGAAAGGAGAAGAAGACA}$ GAAATA $A$ A A A G G G GAAAAAAGGGGAAGGAAAAGGAAAAGBCCA A G G G GCCGGGGAAAAGGGGGGAAGGGGGGCCCCAAGGGBAAA A A A C CAAAA A GAAAAGGGGGGAAGGGGGGAAAAAAGGGAAAG G G G A A G G A A G G G G A A A A G G G G G G C C G G A A A A A A A A A A A A G G G
 C G GAA $A \operatorname{GAAAAAGGAAGGAAAGGAGAAGAAGGAAAAGGCAAGG}$ GAAGAAACCGGAAAACAGGAAGGAAAAGGGGAGAGCCGGGGG

GCCGGAAGGAAAAAAGGAGAGAAGAAGGGGAAAAAGAAAGAG $G C C A A A C G G A G A G T T G G G A G G A G C C A A A A G G G G A G G G G G G G A$ A G G G G G G A A G GAGAGAGCAAGCCGGAAAAACAAAAAAA G A A A A A G A A A A A G G GA $\operatorname{A} G A A G G C C G G A A G A A G G G G G G G A A A A G G G A G A A$ GGGCCCCAGGACCGGAAGGAAAAGGACCAGGAGACGAAAAGAA
 GACGGAGGGGAACAGAATTAAAAGGGGGGCCGGAAGAAAGAA G G G G GAAAACCCCGAGGGAGGGAGGAGAGGGGGAGCCAAGGG GCCCCGGGAGACCGGAAAGGGACAGAGCAAAGGAGGGAACAC CAGGGAGAGACAACCAGAAGAAGGGAACCAAAAGGAAGGGGG GAAAACGGGAAAAGAGGGGAGAAGGGAGGCCAAAAGAAACCG GAAA A A A G GCCCC G GAAGGAAAAGGGGAAAAGGAAGAAAA GA G G G G G A A A A C C G G A GAA $A \operatorname{GAAACCGACCGGCCGAAGGGGAAAG}$ GA $\operatorname{G} G \mathrm{G} A \mathrm{~A} A A C C G G A G G G A C G G G G A G G G A A A A G G G G C C G G G G A$ A G G G G A A G G A G G G A C A GAAA A A A C C G G G G G G G G A G G G A G G G G GAAGGGGGAAAAAAAAAAAAAAAAAAAAAAAAACCGGAAGGG G G G G A A A A C A A A A A A A C GAGAAAAACC G GAAAAAA $A$ A GA G G G G $G C C A A G A G G A A A A C C A A A A G G A G G G G A G A G A G G A G A G A G G B A$ GAGGGAGGGTTAAAGAAAGGGAGAACCAAGAGGAGCAGACAG G G G A A A G A G G G A A A A A A $A$ A $A \operatorname{GGGGGGGGCAGGGGTAAAGGGGA}$ GAGAGCCGAGGGGAGGGACGGCAGGAGAGCAGGGAACCCGGA G G GA $\operatorname{l}$ GAACAGAAGGAAAAGGAAGGAGAGGAGGAAAGGAAGT A G G A A GA G G C A A A A A A A G G G G A A G G G G A A G GAA G GAAAA A G A A G G A A A A G G A A A A $\mathcal{A} G G G C C G G G G G G A A A A G G G G A A G G C A A A C$ C G G G G A A A A A A A A A A G G G GCCAAGGCCGGAAAAAGAGAACAA A GAACGGGGGGGGCAAGAGAAAACAAAAAAGGGAAAGACAAA TCCAGAAAAGGGGAAAAGAAAAAGGGGGACGAAAACCGGGGG G G G G GCACCAAAACCAAAAGGAAAGCCAGCAGGAAAAAGTAA CAGAGAAAGAAAGAAGAACGGAGAAAACGCCCCAAGAAAGBA A G G G G G GACAA A A GAGAGGGAGGGAGAGACGCAAAAAAGGAGA GCCGGAAAAAAGGAAGAAAGAGGGGCCAAAGGGAGGGGAGGG ATAAAAAAAAAAACGCGGGGGCAAGGAGACCGGAAAAGGGGG G GAGGCAGGCCAAAACCAAGAACAAAAAAGGGGGGGGGAAAA G G G A G G G C A C C A A G A G G A A A A A A A A GACAAGGGGGGGA G CAC A GGCCAGAAAAAGAAGAGAAAGGACAGGGAAAAAAGAAAAAA
 GAAGAAGGAGACCACGAACCGGAAAGAAGGAAACCAAGAAAA A GAAAAAAAGGGAAGGGACCCCAAAAAAGGGAGAGAAAAAAG

 $A C C G G A A G G G A A A A G A G G A G G G G C G A G A G C A T A A A A A A A C A G$ GAACAAAAGGGGAGGGGAAGGGGGGGGGGCCGGAAAAGAAAG GA GAAAAAGAAAGGGAACGGGAAGAGGAGAGACGGGACAAAA AACGAGGCCCCGGAAAACCAAGGAGAGGAGGGGAGGGGAAAG GAAAGCAGGAGGGCCAGAGGGAAGAGGAACCAAGGGGCCGGG G G GCAAAAAAAGGGCCAAGGGGAATAAACCAGAAAAAAAAG GGAAAGGCGCCAGGACCCCCCAAAAAAGGAAGGGGAAAACAA ACCAAAAAAGGAAAAGGAAGGGGAAAAGGGGGGAAAACAAAA CAAGGACAGGAAAACAAGGCCCAGGGAAGACGGAAAAAAAAA G GAGGCCGGAACCGGGGAAAACCGGGGGGGGGGAAAACAAAA A A A A A A A $\mathcal{A} G G G G G G G A A G G A A A A G G A A G G A A A A G G A A C A A A A$ A G G G GCCAACCGGAAGGAAGGAAGGGGAAAAGGGGAAGGGGA A G G A A A A A A A A A A G G G G A A A A A A C C G G A G G A A T C A A A A A G G C C G G G A G G G GCCCCAGAGCCGGAAGGGGGGACAAAAAAACGGG GAAAAAAACGGGAAAGGAGGAAAAAGGAGACAGAAGGGAAAG GAAAAGAAAGGAGGGGGGGAAAAAAAAGGGAGGGGGGGAAAA A G G G G A A A GCCAAAACCAAACAAACCCGGCCGAAGAAAAAAG G G G A A A A G GAACCCCAAAGGAAAAGGACAAAGGAA GAGAA G G GAGAAATGGGACCGGGGGGGAACGGGGAAGGGGCCAAAAGAC

A G A A A GAACAGGGAGGAAAAGGGACGGGGGACCAGGACAAAG GAAAA $A \operatorname{A} A A A G G G G G G C G C A G A G A G G A A A A G G G G A G A A G G G G A$ AAACCAGGGAAAAAAAAGGAAGGAAGACACCGGGAAAGGCCG ACAGGCCAACCGGAAAGGGGGAGGGGACCAAAAAAGAGATTG G G GAAAAGGAGAGAAAAGAGAGAAGCAGAAGAAAAGAAACCA G G G G G A A T T A G A G G A G G A A A C A A C C C C G G A GC CA G C A G G A A G G G G A A GAA $A \operatorname{GGC} C A G G G A A G A G A A A G G A A A A G A A G G G G A G G A$ AGGGGAAACAAAGGAGGAAAAGGGGCCGAAACAGGAAAGGGG AAAGGGGAAGATTGGAAAAAAAAAACCAAGGGGAAAACAAAG GAAAAGGGGAGGGGGCCAGAGAAGGAAAGAAGGGGAACCGGG GAAGGAAAAGGAACCGGGGGGAAAAGGAACCAGAAAATX GAA G G G A A A A A G G G G G G G A A A G G G A A C C A A C C G GAAA A G G A C C C G G G G G G G G A A A A C C G G G G A A A A A A G G G G C C G G G G G G G G G G A A A A A A G G A A A A G G A A G G G G A A A A G GCCGGAACCAAAA G G G G G C C G G G GAA A G G GAAGGAAAAGGAAGGGGAAAAAAAAAAGAAAAAA A G GAAAATTAAGGAAGGAAGGAAAAGGAAAAGGAAAAAAGAA A A A G G G G G G G G A A C C G G A A A A A A A A G GAAAAAAAGGGAAAAA G G G G G G G G G G G G A A G G A A G G A A A A G G A A C C G GAAAAAAAACCC C C C G GCCGGAAAAGGGGTTGGAAAAAAGGGGCCGGAACCGGG G G G A A C C A A G G G G G G G G A A C C A A A A G G G G G G C C G G G G G A C G G A A A G A A A GAGGAACCGGGGAAAGCAAGGGGAAAAAAGGAAAG G G G G GCC G G G A GAGCAAGGGGGGAAAGGACCGGGGAAGAGAA G G G G G C C A G A A G G A A GAAAGGAGACCCAAAACCAAAAGAAA G G GACCGGGGCCGGAACCGGGGGGAAAGGGCCCCCAAAGCCCA A G G A A A A A A A A A A A A G G G A A G A A G GAAA A A A A A G G G G A A G G G GAAAAAATTGGGGCGAAGAAAAAGGAAAAGGGGCAGAGAAAG GAAAAGGCAGAAGAGGGAACCGGGGGGAAGGAAGAAGGGAAA G GAGGGAGAAACCGAGAGAGGGGGGACAGAAGGAGAAAAGAA A G G G G A A G GAAAAAACCGGGGAAAAGGGGGGAAGGGAAAAAA AGGAAGGCCAAGGGGCCAAAAGGGGGGAAGGAAGGGGGAAAA A G G G G G G C C G G A A G G A A G G A A G G A A G G G G G G C C G G A A G G C C G G G G A A A A A A G GCC G G G G A A A A G G T T G G G G G G G G A A G G C C A A $G$ GAAAAAACCGGAAAACCCCGGAACCGGGGAAAAGGGGAAGAA A G G G GCC $C$ G $\operatorname{CA} A A A G G G G G G A A G G G G C C A A A A A A A A A A A A G G A$ A A A C C A A $\mathcal{A} G G G G G G G A A A A G G G G G G G G A A A A A A G G C C A A A A C$ C T T G G G G A A G G G G A A G G C C G G A A A A A A G G C C A A A A C C G G G G C C G G G G G GAACCGGAAAAAAAAAAAAAAAACCAAAACCAAGGA AGGGGCCGGAAGGGGGGAAGGAACCGGCCAAGGAAAAGGAAG $G C \subset A A G G A A A A G G G G A A G G A A A A A A A A G G G G C C A A A A A A A A A$ $A \subset C G G G G A A G G A A A A C C G G G G G G A A G G A A G G A A A A A A A A G A A$ AAAGGGGAAGGGGAAAAAAGGAAGGGGCCGGGGAAAAAAGGA A A A G G A A A A A A A A G G G G G G G G G G C C A A A A C C A A A A G G G G A A G GCCGGCCAACCAAAAGGAAGGAAGGGGGGAATTGGGAAAAAA A A ACCAAAACCAAAAAAAAAAAAAACCAAGGGGAAGAAAAAA A A ACCAAGGAAAAGGAAAAGGGGCCCCGGCCGGAAAAAAAAA A G GCCAACCAAAAAAGGGGCCCCAAGGCCGGAACCGG
$G G A A G G A A G G C C A A A A A A A A G G G G G G G G A A G G A A A A G G A A G$ G G G G G G G G GAAAAGGGGCCGGCCAAGGGGGGGGAAGAAAAAG GAAAACCGGAAGGGGGGCCAAGGGGCCAAAAGGGGAAGGCCG GAAAAAAAAGGGGGGAAGGAAAAAAAAGGAAAAGGAAAACAC CAAAAA A $A \operatorname{A} \operatorname{A} A A G G G G G G G G G G G G G G G G C C G G G G G G A A A A G A A$ $A C C G G G G C C G G G G A A A A A A G G G G A A G G A A G G G G G G A A G G G G G$ GAAGGGGAAGGAAAAGGAAGGCCGGAACCAAGGAAAAGAAAC CAACCAAGGAAAAGGAAGGGGAAGGGGGGGGGGAAAAAAAAC $C \subset C G G G G G G C C G G C \subset A A G G C C G G A A A A A A G G C C A A G G A A G G G$ G G G G G A A A A A A G G A A G G A A A A G G G G A A G G G G G G A A G G G G G G A AAAGGAAGGAAAATTAAAAAAAAAACCAAAAGGGGAAAACAA A G GCC $C$ G G G GAAAACCGGGGGGGGAAGGGGCCATAACCAAAAC CAAGGAGGAAGGGGGGGGGAGAGGAAAGGAGGAGAAGAAGGG

A G G G G G GCCGGAAACGAAGAGGAGAGGAGAGAAGGAGAGAAA A GAGGGCGGAAGGAAAAAAAAAGGAAACAAGCCCAAAGAAAA $A C C G C C C G G A G A A G G A A A G A A C C G G A G G A C C A A A A G A G A A G G$ A G GAAA A A A A A G GAAGGCCGGCAGGGGAAAGAGAGGGGAAAG GAAAGGAGGGAGGAGGGAAAGAGGGAGAAGGGAGAAGAACAA

 $G G A G G G G G G A A A G A A G G G A T T A G C A G A C G G G A A G A A A C A G A G$ A A A G G A GCCGGGAAAGGAACCAAGGGGAAGGCCGGCXAAGAA A G G G GAAAGGGGAACCAAGGGGGGGGGAAGAAAAAGAAAAGG
 A A G G G A A A A GAAAACAGACGAAAGGCCGGAAAAGGGGGACAA $A G G A G G G A G G A G G G G G G G G G G A A G G G G G A G G C C G A A G G A G A A$
 G G G G A G G T TAAA A C CAGAAAAGAGGGGAGCCGAAGGAGAAAG A G G G GCACAGGAGGACACCGGAAAAAAAAGGAAAACCGGGBAA $A C C G G C C G G G G A A A G G G G G A G A C A G A A G G A A G G A C C C A A A A C$ CACAGGGGGGAGGGAGGGAAGGAAAGAAAGGAAABCCGGCCC CAGGACCAGAGAAACGGGGGGTTAACGAGGGAAAGAGGAACA A G G A G G A G GA G G GAACAGAGGGGAAGAGGAAAAAACCGGGGG G GAGGCCAAGGGAGGCCGGGAAGAGACGGCCGAAAGAAAAAA ACCAGCCAACCAACCAGGGTTAAGGCCGGAAGAGAAGAGCGG G G G G G G G G G A T A A A C G A A $\mathcal{A} G G G G G G G G A G G G G G G G A A A A G G A$ TGGAAAAGGAAAAGGGGGGAAGAAAGGCAAAGAGGAGAAAAC C GAA A GAGAAAGAGGACAGCAGAGAGAGAGGAAAGAAAAAAC AAAAAGGGGGGCCGAGGGGGGAGCAAGACAGACAGAAGGGGG AAAAAGGGGAGGGAAAGAAAAAGGAAAAGAGAGAAAAGATTA A A A GAAGGGAATTAGCCGGCAGAAGGGCACCAGGGGGATACG $G C C C A A A A A A A A A G G G G A A G G A A A A G A G G A G A A G A A A A A A A A$ A A G G G A A G G G G G G A C G GA $\operatorname{A} A A A A A G G G G G G A G G G G A G A G A A C B$ A GAG $A \operatorname{GG} \operatorname{GAA} A G G C A G A A A G G G C A G G A G A G G G A G A A G A G A G A A$ T GAGGAGAGAAGGAAGGACGAAGCCCCAGAGAAGAAGGGGAG GAACCAGCAGGAGCCAAGGGACCGGGGGGGGAAGGCCGAAGG G G G GAGAGGAGACGCGGAGACAAAGGGAAGGGAGGAAGAGAA CACAACCGGGGAAACAGGGAGGGGGAAAGGGAAGGAAAGAAG A A A G A A G G A A GAACCAACCGGAGAGAGAAAAAGCACACAAAA C C CA $\operatorname{C} G A G A G A A A G G G G G G A A A A A A G G C A G G A A A A A A G G A A A$ ACAAAGAAGGGAAAAGGAGGGCAGAAAGGGGGGAGAAAAAAG GA $A \operatorname{A} A G G G A A G G G G G G G A G G G G G G C G G G G G G G G C C A G C A A A A$
 GACAGGAGAGGAAGGAGCCGGGAGGCCAGAGAAGGGAGAGAA G G G G A GAAAAAAGGGAACCGAAAAAGAAACCGAGGCCGBCAA AAAGGGGAAAAAAAAAGACGGGGAAGAGAGGGGGGGGAACAA A CAAA A A G G G A A A G G G GCCAAAAGGAGGGGAAAGGGGCAGAC AAGGGAAGGAAAAAACAGACCGAAAAAGGAACGAAGAAAAAA C C C G A A G A GAA $A \operatorname{GAAAAAAAAAAGCAAGGGGAACCCAGAGAGG}$
 GCAAAAGGGAAGGAAGAAATTGGAGAGAAAAAAAAGGGAAAG G G GAGGACCGAGGCCGAGGGAAAGGCCCCGGACAAGGAAGAG A G G A G C A A A G G A A G G G G G G G G A A G A G A A C A G G A A G G A G G A G A AAAAGGACAAAAAGGAAAAGAAACCAACGAGCGGGGGCAAAA G G GAGAAAAAAGGGGAAAAAAAAGGTTTACCAACCAGACGAA GAAA A A A C C G G A A G G G A A A G G A A A A G G G G A G G G G G G G A A C C T TAAGGAAGGAAGGAAGGAAGGAAAAGGGGCCGGAAAAAGGAG G G GAGACGGAAGGGGGGAACCGGAAGGAAAAGGAAAGAAAGG A GAA $A \operatorname{GAA} \operatorname{A} G \mathrm{G} C A G G A A G G A G G A A G C A A G A G A A G A G G G A A A A$ G G G G G A A G A G A A G A GAGGAGGAAAGAAGGGAGGGGAGCAAAC CAAGGAGCCGGGGAGAAGGGGAAGGAAAAAAAAAAGAAAAA G GGGAAGGAAGGCCAAGGCCGGAAGGAACCGGAAAAGGAAAAA
$A C C G G A A T T A A G G A A A A A A G G A A G G G G G G A A A A A A G G G G A G G$ G G G A A A A G A GAAGAGACAGAGCCAAGGCCAGCAAAGGCAACA G GAGGGGAGAGGGGGAAGGAAAGAAAGCCGGAGGGGGGAAGA G GAGGTTGGGGGGGGAGAGCAAACCCAAAAGAAAAAACCGGA G G G G G GAGGAAACAAAAGGAGAAGGGGGGGGAGGAGAAAAAA A G G G G A A A A A GAACACCAGGGAAAAAAAAGGGGGCGGGAAAA A G G A A A GCCAA GAAAGAAAGAAGAGGGCAAAGACAGAAACCC A A G G A A A G A G G G G G GAGGGGGAAAAACGCGGGGAAGAAAAAG A A A G G G G G A C C G G G A A A C G A A A G GAAGGAAGGGCACAAAAA G GAAGAAGCACAGGGAAAGGGGGAGGGGGAGAGAAAGGAGAGC AACGAGAAAAAAAGACCGAAGGGAAGAGAAAGGACACATGAA G GAACGAGGGAGGCAGAAGGAGAAAGGGGAAAAAAAAGGAGG A GACAGAGAAGGGAGGGAAAAAAAAGAGAGGAAAAGGAATTC C C C G G G G A A A A C CAC $\mathcal{C} G A C G G G G G G A A C C G G A A A A A A G G G G A$ AGGAAGGAGGACCCCGGAAAAGGAAAAAAAAGGGGGAAAGGG GAGGGGGAAAGGAAGGGGGAAAAGGAGAGAAGGGGCAAGGGG G G G G GCC G A G G GAA A A A G G A A G G G GAGGGAAGGAACC G GAA $\mathcal{A}$ GAAGGAAGACCACGGAAGGAAGGGGCCAACCAAGGAGAGGBA A G G A A G G C C G G G G G A A A A A $\mathcal{A} G G G G A A G G G A A A A A G G G G A A A G$ GTTAACACCGAAAGGAAAAGGAAGAGAGGCCAAGAAGABACA G G G GAGAGGCCAAGAAGAAAGAACCGGCCAAAAGGACAACCB G G G G A G G G GCC $C$ G $\operatorname{GA} A A A G G G G G G A A C C G G G G G G G A G G A A C A A$ A A G A A G A A A CAGGCCGGAGCAGGGGGGAAAACGAAAGAGGBA A G G A C A G G G A A G A G A G G G A A G A G A G G G G G G G A A $G$ G G G G G G G G GAGAATTAAGGAACCGGAAGGCCGGGGCCAGAAAGAAGAAAA A G G G G G GAA $A \operatorname{GGGA} A G G C C G G A A G G A A A A G A A C A A A G C A A C B$ A GAA A G G G G G GAA $A \operatorname{AGGGGAGGCCGGAAAAGGAGAGAAGAAAA}$ GCAGGAACCAAAACCGGAAGGGGGGCCAAAGAGAGAAGGGGG
 GAGGGAAAGAGAAAGAAGGAAAAAAGGGACAAAAAAAA GAGGG G G G A A G G A G G A A A C C G A A A G G G G G A GA G G A G G G A G G A G A G G A GAGAAGAGGGGACAAAAAAGGGGAAGGGAGGCAAGAAGGAGA GAAA $A \operatorname{A} G A \operatorname{A} A A A G G G C A A A A A C C A A A A A A G G A A A A G G G G G G A$ A A A TAA $A C C G A G A G G C C T T C C A A C C A A A A A A A G G G A A A A G G G$ A G G A A A C G G T T A G G G G G G A A A A A G A GAC C G G G G A A G G A A G G A A A GAGAAAGGAGGGGAGAAAAAAGGGGAGGGAGGGGAGAGAC A G G G GAGGGAAAAAAAACCAAGGAGGAAAAAGGAAGAAAAGC CAGAGAAGGCAAAGGGGAGGGAGAAAAAAGGAGCAAAGGGGG G G G A A A A A G G G A A G G G GCC G GCCAAAG GAAGAC G G G CAAA G G G G G A A A A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A G G G G A A A A A A A A G G A A G B A$ G G G G GAGCCGGAAGGAAGGGGAAGGAACCGGGGGGGAAAGGA A G A A A G G C A A A C C G G G A A A C C G G A A G G G G G G A A A A G G G G G A A GAAGGAGGAAAGGCCCCCCGAGAGAAAAAACGAAGAGAACAA G GAC GAAA $A \operatorname{A} G A G G G G A A A A G G C C A A C C G G G G C A A A A A G G A G G$ A A GAGAAACAGAAAGGGGGGGGGCCAAAAAAGGAAGGCAAAA A A A A A G G G G G A A G A G C C G G A G G A A $\mathcal{A} G G G G G G A G G G A A$
A G G G A G G G G G G G G G C C G G G G A A G G G G A G G G G G A G G G A A $\mathcal{A} A G$ GAGAGGGAAGAAGAAGAGGTTTAGAGGGGAGGGAAAAAAAGA G G G G G GAGGAAGGACACGAGGAGAGAGGGCCGGGGAGGAGAA GAAAACCGGGGAAAGAAGAAAGAGAGGGGGGCCGGAACAGBA A G G A G GA G G G GAGGACCAGACAAAAGGAAAAAAAAAAGGCCG GAAGGAAAAGGAAGGGGAAACAAAAAGAAAAAAGGGAGGGGA GAACCAAAAAACAGGAGGGGGGAAAAAAGAAAGAGAGGAAAA G G G GATAGGCAAGAGAGGAGGAGGAGAAAAAAAACAGCAGAG G G GAAAAACAGGAAAGGGAGGAGAAAGGCAGGGGGGGGAAAG AGGAGCAAAGAAAAGAAAAACCCGGAGGGAAAAAAACAAAGA CACGAAGAGGAAAAGAGCCGGCAAGAAAGAGAGGGAGGAGGA A G G G G A A A A C A T T G A A G G G A A G G A T G A G G G GAC G G G G G G G C A GAAAAAGAGGAGGAGGGGGGGGGGGAGGAAAAGAAAAACAGG

G G G G GAAGGGGGGGAAAAGGAGGAAAGAAGGAAAGGAAACCA AACGGAAACAAGGGGAGAAAGCCAAAAGAAAAAAGAGACAGG GAGGAAAGAAGAAGAAGGGAGCAAGGGAGAGAACCAGTXAAG G G G G GAAAGGGGACACAGAAAAGGGGGGAGGGGAGAAAAAAA $G C C G G C C G A A G A A G G G A G G G A A G A G A A T A A G G G A T G A A A G A A$ G G G A G G G G A A A A A A C G G A A G G A A GAGAGGGGAGAACACAAA G G GAAAGGGAAAGGAACCAAGAGGAACACCGGGGAAAAAAGAA AGGAAGGGGGGAAAAGAGAAGGGAGGGAAAATAGGCCAAAGA A A G G G GA $\operatorname{A} G A G G A G G A A A G C C C C G A A T A A G G G G A A A G G A A A A$ AAAAACAGGGACCGGAAGAGGAAAAGGCCAAGGAAAAAAACA CAAAAAAGGGGGGGGAAAGGGAAGGGAAAAGAAAAAAGAAGA A A A G G A A C C G G G G G G G G G G G G G A A A A GAAAAAAAGGAGCAAAA A G G A A G G G G A A A G A A A A G G A G G A A A A GA ACCGGAA G GA G G A A A A A G G A A G GCA $\operatorname{A} A \mathrm{~A} G \mathrm{G} A A A G C C A A G G G G C C A G G G G A C C G G C C A$ $A G G A G G G G G G G G A A A G G G G G G G G G G C C G G A G A G G A A G G G G G A$

 A GAAAGGGAAACCATACGGAGGGCAAAGAGAAAAAAAGAGAA AAAAAGGGGAACCAAAAAGGAAAGGAAAGGGGAAGAAGGGGA AAAGAAGAGAGAAAACCAGGAGGCCCAAAGGGGGAAGAAGAA GCAAAAAAAGACCAGGGAAAAGAAAAAGGAGAAAACCGGGGG $A C C G A A A G A G G A G G A G G G G C C G G A G A A A A A G G A C A A G G A G G A$ A G GAGGGGGGGAAAAAAAAAAGGCCAGGAAGGGAGGGGAAAA C G G A G A A G A A A G GAGGAAAGGAGAGAAGGAGAGGGGAAAAAC
 A A GAGAGCGAAGAGGAGGGAAGAAGCCAAAAGAAGGGAAGGG G GATAACGAAAGAGGAAGGGAACCCGACCAAGGGGAAGAGGC A G G G G A A G G G G A G G G G A A G A A G A A G G G GAA $A C A G A C A A G G A G$ A G G G G A A C C G G A A G A A GAA A A A GAGCCAAAACCGGGGGGCC G GAAGGAAGGGGAAAAAAGGCCGGGGAAAAGGGGACCACACAA A A A A A A A C A A A AC GAAAAAGGGGCCAACCGGGGCAGGAAA G G G GAGGGGCCCCAAGGAAGAAGAAGGGAAGAGGGGGAAGAAGA GAGGAAGAAGAGACCGAGAGAGGGGGGACGGGGGGGGCAAAC G G A A G A A G G A A G G G G G G A A A A G G G G A G C C A A G G A A A G A G G G A GAAGGGGAACACAAGAAAAGGGGAAAGAAAAGGGGGGGAGAA
 AAAAGAGAAAAAGCGGGAAAGAAGAGGAAGACACCBAAGAAA G G GCA C GAACCGGGGGGGGGGAAAGGGGAGAAAATCAGAGAC
 A A A A G G GACGGAGACGGGACAGAAAAGGGAAAATTAACCCCG AAACCAAGAAGGGGAAAAATTCCACGAGGGAGGAACCTTGGG G A A A A G G A A A A G G A A G G A A C C G A G G A A A A A G A A A A G A A A A A C A G G GAAAGGGGAAGGGGAAGGCCGGGGAACCAAGGGGAACAC CAACAGAAGAAGGAAGGAAAGAGAACAAGAAGAGAGAACCCC C C CA GCA G GAAAAGAGACCAAGGGAGGCCAGAAGGGAAGAGG G GAGAAGGAGGGGCCAAGAACAGGGAACCAGCACAACAACCG AAGCCGGAAAAAAGGAAAAACGGGGAAAACCAAAAAAAAAAG G G G G G G G A A A A G G G G C C G G G G A A A A G G G G G GAA A C A G A A G G C C GAA A G GAGTTGGGGAAGGGGACAGAAGGAGAA G GAAAAGAGC A G G G GCCAAAAAAAAGGAGAGGAGAGGAAGAGAGACACACAA A G G A G G A A G G G G G C A G G A G G A A A G A A A A A G G G GCCCA GAA G C CAAGGCCAGAGAAACAAGGGAAAAAGGAGGGAAGGAACAGGG GAAGAGAGGAGACAAAAGGGACAAGAAAAAAGGGGAAAAGAA GAAGGAAGGGGGACAAAAAGGAAAAGGCCCAGAGGGGAGACA A A A A A GACAAGAACCACCAAACAGAAGGGGGTAAGGACAGGG G G A A A A C G G G A G G A A G G A A A GAAAAGGGGAAGGAG GA GAGAA GAGAGGAGAAGAGGGTTGAGACCGGAAGGGGGGAAGGGAGAG A A A A A G G G A A GCC GACCGGAAGGAGAGCCAAAAAGAGAATTAG A G G GAA A A GAACAAAAAAAAAGGGGAAAAGGACAAAGCGGGA

A A G GAGGGGCCAAAACCGGGAAGGGGATAGGGGGAGGGGGAG A A A A G G G A A GACATTAAGAGGGGGAAGGGAAGGAAAGA GAA G GAAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGAA GAAGAGGAAAGGACAGGGACAAGAGACGGAAAAGGAGCBGAA AAAGAGGAGCAGAAGGGGGAACAAGAAAGAGGGAAAGAAAAA A G GCCAAAAAAGGGGAAAAATGGGGGAGGGGAAGGGAGAGAG $G G A A A G G G G A A G G G G G A A C G G A A A A G A G G C C G G A G G G G A G A A$
 G G GCC G GAGAAGGCAAACCGGAAGAGAAACCGGGGGGCCGGG G GAAAGAACAAGGGGAAGGCCAACCGGCCGGAGGAAGAAAAA G G GACAAAAAGGGAAAAGGGAAAAAGAGGGGCAGAGGAAAAG G G G A G G G A A G G GACCAGAAAAGGAGGGCCAGAAGGGAGAAAG GAAGGAACAGGAAAGGAGGGGAAGAAGCCACGGAAGGAACAC CAACAACGGGAAGGGGGAAGAGGAGCCAAGGAAAAAAGAAAG A GACCAAGAAAGAAAAACCCCAGAAAAGGAAGAAAAAAGGGA A ACAA A G G G G GAGGGGGAAAAGGAAAAGGAAAGGGAACAGAA G G GAA A GAGCGAAGAAGGAAAAGCAGGAGGGAAACGAAAAAG
 G G G G GAA $A \operatorname{GGA} G \mathrm{G}$ GAAGGAAAAAAGGAAACAGAAAGAGGACAA G G G A C A A A A G G A A A A A GCC G GAACCGAAAGGAGGAGGCAAAA AAAGACCAGGAGGGGAGGGGGGGAAAAAAGGAAGGGGGACAA AAAGGAAAAAAGGAGGGAAGACAAAAGGAAGAGAGAGGAGAA G G G A A A A A CACAACCGGAAGGAAGGACAAAAAACAGGGAGAG A A A A C G G G GAAAAAA A $A$ AAAGGCCCCGGAAAAAAGGGGGAAA G G GAAAA $A \operatorname{A} G \mathrm{G}$ GAGAACCCGGCCGGAGAAGGAAGGGGAGCCGGG GAGGACCAACAAGAGGAGGCAAAAAGGAACCCCGGAGAGAAG

 A G G GAAGCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGG GACGGAGAAGGAACCAGAAAGAACCCCGAGGAAAGCCCAAAC A GAAA $A \operatorname{A} C A G A A A A A G G G A A G G G A G A G A A G G G G A A A A A C G B A$ A G GAA A GAGAGGGAAAAGAAACAGGGGGAGGAAGGAGAAAAG GA $A$ A A $\operatorname{A} G A G A G G A G A G A G G G G A G G G A A G A G G G A G G A A G A A G A$ A A A G G A A G A A A A A G GCCGGGAGGAAAAAAGAAAGGGAAAAAG G G G G G A G G G A G A G G A G G A G A G G G G G G A A G G G G A A A A A A G A G A A G G G G G G G G G G A A CA $\operatorname{G}$ GAAACCAAGGAAGGAACCAAAAAACAG G G GCCGGAGGAAGGGCGAGGGGGAAAGAACCGGGAGGAGAGG $G C C A G A A G A A A G A G G G G G G G A G A A C A G C A A A A A A A G G G A A A G$ GAGGGAAAAGACCCCACGGCCCAACGGGGAACCAAGGGGTTG G G G A G G G A G A A A G G A A A A A G A C A G G G A A GTTMA G G GA G G G G G GAGAGAGAAGGCAAGACAAGAGGGGCCGGAGGGAAAACAAAG G G G G G A A G G A A A A A G G A G G GA G G A C A G G G A CAA A A G G G A A G A ACAAAGACCCCCCCACAAACACCAGGAGGAAAAGAAAGGGGA A A A G G G GCCGGGGAACCAGGGAAGAGGAGAGGGGGGGCCGGG ACCGAGAAGGACCACAGAAAGAAAGAAGCAACCCAGAAAAAG $G G A G G A G G A G G A A G G C C G G A A A A G G G G A A A A A A C A A A$
G GACGGCCAGAAGGAGGGGGGGAGCCAACCAGGGGAAAAAG $G G A C A A G C C G G A A A A C A G G G G G G G A C A A A G G A G A A A A A A G G G$

 A A GAGAGGGGGGGAAAAGGGGAAAACCAAAGCAGGGGCAGAA CACAGAAACGGGGATGGGGGGCAGAAAAGGAGGGGACAAACA A G G A G G A A G A A G G A A G G G G A A A G G G G G G A GAAA A G C C G A C A A AAGAAGAAAGGGGGGAAGGGGAGGGAGAGGGAAGGAAGGGGA G G G G G G GAAAAGGGGAGGGAAAGGAGGGAAAGGGAAGAAAAA A A G G G G G G A G A G G A A G G A A GAA A A CAGGGGCAGCAGGGAGAA GACAGAGGAAAAAAAGGGAGGAGAGAAAAACCCAAAAAAAGBG GAGGAGGGACACCAGGGGGGGAACCCCGAGGGGAGAGAGAAA A G G A A G GAGAGAGGAGGCCAAAAAAAAAAGGAAGGGAGAGAA

A G G A A A A A GAAA A A G G GAA $A \operatorname{AGGAAAGGAACCGGGGAGAAGC}$ A G GCCAAAAGGAGGGAAGGAGGAGAAACAAGGACAAAAGA GA A GACCGGGGGGAAAAGAAGAAAAAAACAAGGAAGGAAAAGGG G G GAAAAGGAAAAAAAACCGGAAGGAAGGCCGGGAACAAAGA CAGGGGGACAAAAAAGGGGGGAAAAGGAAAAGGGGGAAAAC G A G A A G A G G G A A G G G G A A G G G G A A G G A A A A G G A A A A G G A A G G A GACGAAAAAGGGGGAAAGGGAGCGGGAGAGAAGAAAGAGGGG $G C C A G G G G G A A C C A A G G A A A A G G A A G G G G A A G G G G A G G A G A A$ A A A G G G A G G G G G C G G G G A A A A G G G G G A A G G G G G A A G G G G A A $G$ $A G G G G G G G G A A G A G G G G G G A A G G A A A A A A A A G A G A A A G G G G A$ A A A G G G G G G G G A G A A C G G G A GAATTGGGAAGAGAAA GACCC G G G G A A A A T T GACA GAATGGCAAAGGAAGCAAAA GAAGAAGAG GAAGGAACAGGCCGGGGGGAAGGGGGGCCGAAAAACAAACAA $G C A G G A A A G G A G A G G G G A A A A A A A A G G G G G G C A C A A C A A G G A$ $A C C G A A A A G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A C$ A GA A GAAAAGAAGAGGAGGGAAGAGGGCCAAGGATAACAGAA GAGAAGGAGGAAGGAGGAACCGGAAAAACGAGAAAAAGAAAG G G G A A A G A C A G A A G G G GAGAGAAAAGGCGCCAGAAGAAAAAG GAACCACAAGGAGAGAGGGATAAAGAGGAATGGACGACAAAG A A A A A G GAAAC GAGGAAAAAGAGACAAGAAAGGAAGGGGGGG1 GAAAGAGGGGGCAGAGGCAACGAGAGGAGAAGGTTAAAAGAA GAA A A GAGGGGGGAAGGAGGAACAGAGAGAAAGAGCCAGAAA A G G CA $A \operatorname{GGG} \operatorname{G} A A C C A A G G G G A A G G A A A A G G A A G A A A C C T X A A G$ $G G G C C A A A A G G A A A C G G G A A G G G A G A A A G G A A A A A A A G A G A A$ G G A C C A G G G G G A A G G A A G G G C G A G G A A A G GA A A A A A A G G G G A A G GCCAAGGGGCAGAAGGGGGCAAAGGAACCAGAGGGCAGGG G G G G G G G A A G G GA G GAAAGGAGAGGGGGAGAA GAA G GAGAAA G G G G G G G G G G G G G G G G A A G G A C A A G G G A A A A A A G G GAC G G C C A GCCGGGGAAAAAAAAAAGGAGAGAATTGAGAGGAAAAAGGGG A G G G G A A C C A A G GA A G GAAAGGGAGGGAAGGGGGGAGCACAA G G G G G A C G G G G A A G G G G A G A C G G A A A A GAGGGGGGAAA GA C A C G G GAGGGAAGCCAAGGAAACAAACGGGGAAGAAGAAAACAA $A C C A A C C A G A G G G A A G A C A G A C A G G G G A A C C A A A A A A G G G G A$ A G G G G A A G A A A G G C C G G G G C C G G A A A A G G G GA C A A G G C C G G A
 G G G G G A G G A G G A A C C G G A A A A C G C C A GA G CA A A G G G A G G G G G G G GAAA A $A \operatorname{A} A A \operatorname{A} A A \operatorname{A} A A G G A A A G T A G A A A G A G G A A G G G G G G G$ GAAGGGACAAGCCGGAAGAAAGAGGTTAGAAAAGGGGGAAGT TCACCCAGAGGAAGGAAAAGGAAAAGGAAGGCCAACCCCGAG G G G A G A A G GA G G G G A A G C C A GAGAGAAAAAGGGAAAAAA G GA A G G G G GAGGGGAACAGAAAGGAGAAGGCCGGCCAGGAAAAAA A A A G G G G G G A A A A T T C C A A A G G G A G A G G G G A G G G G G G G G A A A A G G A GAGGGGGGGAAAAAAAAGGGAGGGGCACCGGGGAACCC
 $G C C C A A C A A G G A A C A A G A A A G C C A A G G A G A G A C A A A G G A A G G$ A G A A A A A G GCCGGGGAGAAAGCCAAACGGAGCCAAAGAGGGA $A G G A G A A A G G A G G A A A A G G A A A G G G C C G G A A A G G A A A A A G G G$ G GACAA $A \operatorname{A} G \mathrm{G}$ GAACGGGGGGGAGGGGAGGGCAAGAAGAAGAAG GCCAAAGAGAAGGAAGGAAAGCCGGAAGGGAGAGGGAGAAGA A A A G G A A G GAAAAAAAACAAGGAACAGGAAAGAAGGGGGGGG1 $A C C G G A A G G A A G G A A A A T T G G G G A A A G G G G G A A G G G A A G A G A$ $G G A C C A A G A G G G G C C G G A G G G G A A A G G G G C C A G A G C C A G G A C$ C C C A A A A G G G G G G G G A A A A G G G G A A A A A G A A GAGG GAAAA A A GAGAAAAGAGGGACAATACAGGAAAGGCCGGCCAAAAAAAAG GAGGGAAGGAGAGGGGGCCGGGGGGTAGGAAAAGGAACAAAG GAGGGAAAAGAGGAAGGGAGAAGAGGGAGGAAAGGAACAGAG GAACCAAAAGGAGAAACAGAGGGGGAGCCAAAAGGGGGGGGG G G G G G C C G A G G G G A A A G A A G GA CAACA G GAA A GAA GA GA A A G AGAAAAGCCGGGGGGCCAGAAGAAAGAGGAATTAAAAAAGGA

A A A G G A A G G G G A G G G G G G G G G G A A G A GACAGGGAAAAAAGGG GAAGGGAGAGAAGGAGAGGGCAGTTAAGGGGAAAACAGAGAA A GAGGGGAAAGAAAAGGGAAGGAGGGAAAAGCCGAAAGAAGAA AAGGGACGGCCCAGAGAGAGGCCAAAAAGAGAAAAGAAAAGG G G GCAAAGGCCGGGGAAGGGGAAAAGGGAGAGAGGAAAAACB G G G G G G G G A G A A G A A G G A A A A A C A GAGAGGGGGAGACAA A A C
 C G G A A T TAAG $A \operatorname{AGGAGGGCCGGAAGGAGGAAGAAGGAACAAAG}$ AAAGAGGCCGGAAGAAAACGAGGAACCCCAAAGACGAAGAAG GAAAGGGGGGAAAACGGGGAAAAGAAGAAAAAAGGAAGGGGA A G G G G G G A A G G A A GAA A G GAAAAAAGGAACACAAAAAGGCAA ACCAAAGAAAAAAGAGGGGAGAAGAAAAAAAGGCCCCABAAA A GAGGGGCCAAAGCAAGGGACAAAAAGAACAGGAAGGCAGAG G G GAA A A G GACAA $A$ AAAGAGGCATAGAAGAAAAAAAAGGGGGGG $A G G G G G G G G G G G G T T G A G G G G G G G G A A C C G G G G G G G A A A G A G$ GAAGGGAGGAGGGAAGAAAGGCGTTAAGAGAAGAAAGGAGAG GAATTACAACCAAGGAGGGGGAGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAA $G G A G A A C A A A A A A A A A A A A A G G A G A A A C A A A G G G G A A G A G A A$ $A C C G A C C A A C C A A G G G G A A A A A A A A G G G G G G G G G G G G A A A A C$ $C G G A A C C A A A A A A A A G G G G C C G G C C G G G G G G G A A A A A G G A A G$ G G G G G A A G GAA A GCCAAGGAAAAAAAAAAGGAAGGAACAAAG GAACCGAGAGGAAGGGGAACAGAAAGAAAGGGGGGAAAGAAA A GAGGAAGGAAGGAAGGAAAAAAAAAAGGCCAACCCCCCGBAA A G G A A A A G GAAAAAAAAGGCCGGAAGGAAAAAAGGAAAAGAAA A A A G G G GAAAA $A \operatorname{A} \operatorname{A} A A A A A A G G A A G G G G G G A A A A G G G G G B A A A$ A G G G GCCAAGGCCAAGGAAGGGGCCAAAACCAAAAGGGGGGG GAACCAACCGGGGGGGGAAAACCGGAAAAAACCGBAAGGGGC CAAAAGGAAAAGGGGAAGGTTGGGGGGGGAAAAGGAACCGGG GAAGGGGAAGGAAGGAAAAGGGGAAAAGGCCGGGGCCAAGGG
 A G GAAAAGGGGAAAAGGAACCAACCCCGGGGCCGGAAGGGGC CAAAAGGAAGGGGGGTTGGAAGGGGAACCGGGGAAGGCCCCG G G G A A A A G GAAGGCCGGAAAAGGAAAAGGGGAAGGAACAAAA A G G G G A A A A A A G GCCAAGGAAAAGGCCAAAAAAAAGGGGCAA A A ACCGGAAGGGGGGAACCCCGGGGAAGGAAGGGGAAAAAAA A A A A A A A G G G GAAGGCCGGGGGGAGCCGGCCAGAGAGCAAC G A A A GAGGAGGGAAAAGGGACCAAGGAAGGGGGAAAAAGGGGC
 AAAGGGGAAAAGAAGAAAAAAAACCAAACAAAACCGAGGGGG $G C C G G A A A G A A A A A G C A A A G A G G A C G G G A A G G G G G A G G A A A A$ $A C C A A A A A G C C A G A A G A A G C A G A C C A A A A G G C A A A G G G G G G A$ GAAAGAAATGGAGCACAAACCAGAAGGAAACGGAAAGACGAG $A C C A A G A G G G G G A C A A A G G G G A G A A G C G G A G C C G A C C A A A A G$ G G GAAA AA GAGGAAAAAAAAAGACCGAGGAACCGGAACAAGA C G G T A C A G G A A A G G G G A A G GA $\operatorname{A} G \mathrm{~A} A A G A G G G G A A A A A G$
AAAAAAGGAAGAAAGGGAAGGGAAGGGGAAAGAGAGAAAAA GAGGGGGAGCCCCAAAAAAAAAAAGGGAGGAGGGGAAAAAAA ACCGGAGAGAAACAGGGGAACAGAGAGAACGGGAGGAAACAA A GAAAGGACAAAGGGGGGAGGAAGGAAAAAACCGGCCAAGGG GAACCGGGGGAAAGGAAGAAGGACCGGTAGGGAGGAAGAAAA A A A A G A A A GAAGGGAAAGGGAAGGGGGGAAAAAAA GGGGAGGG A A A G G G G A GAACCGGCAAATAGAAGGAAGGGAGAGCCGGGAG GAAGGAAAAAACCACGAGAAAAGAGAAAAAGTAAACCCCAGA A GAGAAGGGGGGGAACCAAAAAAAAAATAAAAGGAGGCAAGAA CAAAGGGGGAAAAAGAAAAAAAAAACCAAGGGGGGAAAAAAA A G GACGGGAAAGGAAGGAGGGGGGGAAGGAACCGGGGAAAAG GAAAAAAGGGGAAGGAAAACCGGCCAAAAAACCAAGAAAGGG G G G G G A A G G A A A A G GAA $A \operatorname{AGGGGGAAGGCCAATTAAGGAAAAG}$

G G GCCAAGGAAAAGGGGAAAACCGGGGGGAACCAAGAAAAAA $A G G G G G G A A A A A A G G G G G G A A G G G G G G A A A A G G G G G A A A A A G$ GAAAACCAATTGGCCCCAACCAAGGGGCCGGGGCAGAAAGGG GAAGGACAAAAGGAAAAGGAGGGAACCAGCAAGTTCCAGAAG AAGCCAAGAGAACAGAGAGGAGGAGCCGAAAGGAGCCGAAAA G G G G G A A G GAA $A \operatorname{GAAA} A G G A G C C G G A A A G A A A G A C A A A A A A A$ GAGACCCTAGGAAGGGGAAGAGCGAAGCATAGGAGGGCAGAG G G G A A A A A A G G G GAAGGGGGGGGAAAAAGAGAAGAAAGAAAA A A C G G A G G C A G G G A G G A A A G G G G A A G G A GAGAA G G G G A A A A A G G GAAGGGGAGGGCCGGCCAGAAAACCACGGGAGGAAAAAAC AAAGGCCGGAAGGGGGACCAACCAGGGGAGAAACCGACAAAAA G G G G G C A A G A G A A G G G G A A A A G G G G A A A G CAC CAA A A G G G G T A GAGGGACCAACAGAAGCCGGGGGGAAGAGAGAAACAGGGAC C GGCCAAAAGAAAGGAAAAAAAAAGGAGAAGGAAGTAGGGGA GAAGGGGAAGGAAGAAAGGGGGGAAGGGGGAGAAAAGGAAAG AACAAAAGAAAAGGGAACCGGAAGAAAGACAGACCAAAAAAG G G G G G A A C C A A A A G G G GAA $A$ A A $\operatorname{A} A G G A A G A A A A A T T G G C A A G A$ GCCAAAAGAGGGGGGAAATGAGGCCGGAAAACCAAGGAAGAA AAAAGAACCGAAAAGAAAGACACGAGAGAAGAAAGGGAGGAA AA G G A A A A A A A A A G GCAGGACAAGGCCAAAAGGCCAAAAGAG G G GAAGAAGACGGAGAGGGAAGAGAGAGAGACCGGAAGGAGA GAAA A A GAGGAAGAAAAAAGGAGAAGAAAAAGGAGGGAGGAA A A GCCATGGGGGGAAACGAAAAGAAAGAAAAGAGGAGCAAGB G G G G G A A G A G G A G A A G A G G A G G G G A A A G G A A C GCCAA G GAA $C$
 C G G A G G GA $\operatorname{A} A A A \operatorname{A} A A G G G G A G G A C C G A C C G G C C G G C G G G G G C$ A G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A A G A A G G G G A G A $A C C A A G G A A G A G G A A G G C C C A G A A A G G G A G G A A A A G A G A A A G$ GAAA A G G A A A A G GAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G G G A G G A A A GCCGGAAGGCAAGAGGGGGGACCAAAAA
 GAGGAAACCGGAGGAAAAGAAAAAGAAGAAGAGGAAACCAGG G G GAAAAAGAACCGGAAGGAAAGGGGGCCAGAACCAAGAAAA A A A G A A C C C A G A A A GAGACCCAGCACCCCAAAAGGAGAGA GA A A GAACCAAGAAAGGAAGGGGGGCCGGCCAGGGGGCCABAAG GAGGGGGAGGGAGGAGGCCTTAGAACGCCAAGGGGGGGAAAG GCGGGGGGACGCAACAAGGGAAGGGGGCCAGAAGGGGGAAAG A G GAA A GAAAGGGGGGGAAAAAGAAAGAACCGGAAAAGAAAG G G A A A A A G GAA $A \operatorname{G} \operatorname{A} A A A A A A G G A A A A A A G A G G A A A A A A G G G G A$
 G G G GAA A C C C C G GAGAAGGAAAAGGCGGGGAGGAAAGGAAGAG G G G A A A A G A A G G A G A C A G GCCACGGACCCGGGGAGGGGACAG G G G GAAAGGGGACAGGGAAAGCCCCAAAAAAAAACAAAAAGG A G A A G A A G G G GAGCAGAAGGGAACCAGAAGGAGGAAGGAAAA A G G G A C C A G A A A A GAGAGGGGCAGAGGAAGAAGAAAAGAAAA G G G G G G G A A A C G A G GAC $\mathcal{C} G G G G A A A A A A A G G A A A G A G A A G G G$ G G G GAA $A \operatorname{GGG} \operatorname{G} A \mathrm{~A} G A A C \subset A A A A A A A A G G A A A A A A A A G G C A G G G$ A GAA $A \operatorname{G} G A G A A G G A A G G C C A A A A G G C C G G G G G G A A G G G G G G G$ G G GAA A GAA $A \operatorname{A} C \subset A A G G G G G G G G G G G G G G A A G G A A G G A A A A G$ G G G A A C A A A A G A A A A C CAA $A \operatorname{AGGGAAAAAAGGGGAGGAGAAGA}$ CACGACCAAGGAAGGCCAGTTGGGGGGGGGGAAAAAGAGAGG A G G G G G GA $\operatorname{G} G \mathrm{G}$ GAGGGGAGAGAAAAAAAGAAGAAGGGAAAGGA A A G G G G A G A G A A G A A G G A G A GCCCCAC GAGGGAG GAA GAAA $\mathcal{A}$ GAAGGAAGGGGAAAAGAAAAAGGAGGGAAGAGGCAACGGGGA A G G A G G G C C A G G G G G A G G G G A A G A A A GAAGACAA A A A TAA A A C G G G G G G G A A G C C G GAA A A G G T T G A A G GAAGGAAAGA GAAAA GAAACAGAGGGGGGGAAAACCAAGGAGGGCACCAGAAAAGAA A G G A A A A G G G G A A C C A A A A GGCCAAGAAAGACAAAAA GAG GA AAGAACCAAAAGGAGGGAAGAACGACAGACCAAGAGGAAAAA

AAAGGAAGGAAAGAAAAAAGGCAGGGGAGGGGGGGGGAGAAC C G G A A G G G G A A G G G G G G A A G A G G A A A A A C A A G G G G G A A A G G A A A A A A C A A A A A A A A A A A A GAAGGGGAACAAGGAGGGAA GAAA GAGAAAGAAGAGAAGAGGGCCCCAAAAAAAACCGGAAGAAAG G GGCCAAAAAGGGCCAAGGGGCAAGAAAAGAGAAAAGAAAAG G G G A G G G A A G G G G A A A A G G A A G G G A A A G A A A GAAAACA A A G A G G G A A GAA $A$ A A $A C G G G C G G A A A G A G A G G A A A A G G G C C A G A A A$ AAGGGAAAAAAGGAAAAGGGGAAAGAAAAAAGGGGAACAACB A G G A A C A A GAGAAGGCCGGAAGAGAGAAAGGCAAAAGGAGAA GAGGGGAAAAAAAGGAAGGAGGAAACCGGAAGGAAAAGGAGG GAGAAGGAAGGGGAACCAAGGGGGGAAAAAAGGGGGGTACCG G G GAGAAAAAGGGGGGAAAGGAAAGGGAGAGGCAGACCAGAA GCAGGGGGAGGAAAGGAAAGGAAGAAACCAGACCAGGAGGGG GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGAGCAGAAAAAGGAACCCAGAAGAAAAAGGGACAGA C A A A A A GAAAGGACAAGGAAAGGGAGAAGAGAGAAAACCGGA G GAGCCCAGCAGGTAAAACAAACGAGGAGAGGAAGCCCAAAA A G G A A G G A A G GCCAAGGGGGGGGGGAGGAGGAAAAGAAAAAG $G G A G G A A G G A G A A A G A G A G C C G A G G G G C A A G A A A C G G C A A G A$ GAAAAGGAGAAGAGGCACCGGGAAGACGAAACCAAAGGGGGA G G G G G G GAAAACCGGCAAAGGGGAGGAAAAAAAAAAAGAAAA A G G G G A A A CAA $A \operatorname{GGG} A A C C A T A G A A C A C C A A G A G G T T A A A T G$ A GAGAAAGAGAAAGAGGGAAGAGGAGAGGAGCAGGGGAAGAA A A A A A A G G G GAGACCGGCCAAAAGAGGCCACGGGGGGAAAAG GAAAAGGGGGGAAAGTTGAGGAGACAGAAGGCCCCACGACABG GAAAAGGAGAGCGCAGAAAGATTCCACAAAAAGCCGCAAAGA A G GAA A GCCGGGGGGGGGACCGGCAGGGACCGGAAAAAGAAA
 A G G A A A G A A G G A A A G A G G G A A G G A A A G G G A A G G A A G G C C G G A $A C A G G A A G A C C G G A A G A G G C C G G A G T T G G A C G G A G G C G A C A G$ A ACTAACAA C CAGACAAGGGAAAAGGGGAGGAGAAAAAGGGGG $A T T A A G A A G G G A A G G A A G G G G G G A A G G A A G G G A G G A A G A G G A$ A A GCAAAA $A \operatorname{AA} A G G G G G G A C A G G G G A C C G G A A G G G G A A A A G G G$
 A G G A T A A G GA G GAACCGGGCCCCGAGGAGGGGGGGGAAAGAA A A A G G G G G G G G A A A A $\mathcal{A} G A G A G G G A A A A A A A G G G G G G A A A A A A$ A A GAGGAGGAGAAAGGGGGAAAAAAGAGAAGACAAGAACAGG GAGGAGGCAAAAGAAGGGACCAAAAGGGACCGACCAACAGAG A A G A A A TA GTTGAAAGAAAGGAAAAGGAAGGCGAAGGCATTA
 AAAGACCAAGGGGGAGACCCAAGAGAGAGAACAGAAAGGGGA C GACCAAAAAAGGCCAAGGCAACGGGGAAAAGGAACCAGAAG GAAAAGGGGAAGGAAAAGGGGAGAAGGGGAGAGGAGAAAGAC ACAGGAGGGAAAAAAGGAGAGAACCGGAAAAGGAAAAGGGGA A G G A $\operatorname{A} A C G G G G G G G G G G A A G G G G A A G G G G C C A A A A A A G G A A A$ A A A G G G GCCAAGGGGGGGGCCCCAAAAAAAAAAAAGG
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AACAGAGAACCTTGGAAAAAAGAAGGCGAGGAGAAAAGAAAG G G G G G G A A C G G A G G A A G T T A A A G G G G G GA G A GCC G G A A A G A A GAGGGAGGAACAGGGGGGGCAAAGGAGGGGGGGGAGAAAGAA GAAAGAACCCCAAGGGGAAAGGAGGGGGGAAGAAAGAAACAG
 A G GCCAAAAGAAGAAAACGAAGGGGGGGAGGGGAAGAAGAAG
 GAGGGAACCAGGGGACCGAAAAAAAGGAAAAGGAAGGGAAAA
 A A GAAAAGGAGCCAAGGAAAAAACCAACCGAGAAGAAGGCAT TAGCAATAGCCAACCAGAGGGAAAAGGAAGGGAGAAACAAAA A GAGGGAAGGGAAGGAAGGGAGGGGGGGGCAGGAACCGGCCA A G G A A G G A A A A A A A A A $\mathcal{A} A G G G A A G G G A A A A G G G G G A A G G G G A$
 GAAGGAGGGAGAGGGACAAAGGGAGAGGAAGCAAAAGCCCCA G GAAAAAAAGGGGGGGGGGGCGGGAAGGGGACCGCCCGAAGA AAGAACCCACAAGAGAGCCGAAAGAACAAGAGAGAGAAAGGG G G G G G A A G G G G A A G G G G C C A A G G A A A A A A G GAAA G G G G A G A T TGGGAGAAAAGAAGAGAAAAGAAGGGGGAAGAAAATTAAAAG G G G G G A A A A A A A A C C A A A A A A G GAAGGAACCAAAAAAGAAAG G G G A A G GAAAAAAGGGGAAGGAAGGCCAAAAAAAAAAGGGGG G G G G G G GCCAAGGAACCGGAAAAGGAAAACCAAAACCGGGGG G G GAACCAAAACCGGGGGGGGAAGGGGAAAAAACCAAAACCG G G G G G G G G G A A A A A A A A G G A A C C A A G GAATTGGGGAAAA G G C CAAGGAAAAAAAAAACCAAAAGGGGGGGGAAGGAAGGCAAAA A G G G G G GAA A GCCAAGGAAGGGGAAGGGGAAAAGGGGAAAAA A G GAA $A \operatorname{GAA} \operatorname{A} G A A A A G G A A A A A A A A A A A A A A A A A A A A G G G G G$ G G G G G G GAACCAAAAAAAAAAGGAATTAAAAGGAAAAAAAAA A A A C C A A G G G G G G G G G G A A G G G G G G G G G G A A G G A A A A C C G G G GCCAAAAGGAAAAAAGGAAGGAAAAAAGGAAGGAAAAAAAAC CAA $A \operatorname{GAA} \mathrm{~A} G \subset C A A G G A A G G C C A A G G G G A A A A G G A A G G G G G G A$ A G GAAAAAAAAAAGGGGAAAAGGAAGGGGCCCCAAAAGGCCA
 GAAAAGGGGAAAACCCCGGGGAACCAAAAAACCCCGGAACAA A G G G G A A G G A A A A A A A A A A G G G G T TAAAAA $A \operatorname{AGGGGGGGAAAAG}$ G G GCCAAAAGGAAAAGGGGGGAAGGCCGGGGGGAAGGGGGGA AAAGGGGGGAAGGAAAAAACCGGCCAAAAGGGGGGGGGGTTA $A C C G G A A A A C C A A G G G G G G C C G G G G A A G G C C A A A A G G G A A A G$
 A G G A A G G G GCC $C$ G $G A A G G A A G G G G C C A A A A G G A A A A G G G A A A G$ $G G G A A G G G G C C G G A A G G A A G G G G G G G G A A G G A A A A G G G A A A A$ $A C C A A G G A A A A G G A A A A G G A A G G A A C C G G A A G G G G A A A A A A G$

 $A G G G G A A A A A A G G G G A A A A G G A A G G G G G G G G A A G G A A G A A A A$ $A \subset C A A G G G G G G A A G G A A G G A A G G G G A A G G G G G G A A G G A B A A G$ G G G G G A A G G G G G G C C G G A A A A G G A A G G G G G G A A G G G G A A G G C C G GCCGGGGGGAACCGGTTAAAACCAAAAGGGGGGAAGAAAA
 A A A G G G GCCGGAAGGGGAAAAAAGGCCGGAAAAAAAAGAAAA A G G G G G G A A G G A A A A G G G G G GC C A A G G A A A A G GAA $A$ G G G A A $G$ $G G G A A G G C C G G A A A A A A G G G G G G A A A G G A C C G A A A A G G A A G A$ GAGCCGGAAGGGGAAAAAGTTGGAGGACCAAGGGGGGAAAAA $C \subset G G G G G C C A C A A C C G A A A A A G G G G A A C A A G A G A G G G G A A A A$ CTTCCAAACCCGGGGAAGGAAAAGGCCGGGAGAGGAGAGAAA
 G G G GCAGAAGAGGACGAAAGGAAGAGAAGAAAACCAGAAAAA ACCGGGGGGGGCACACAAACCGGAGGAAGGAGGGAAAAGCGG $G C A A C G A C A G A G G A A G A A G A A A A A A G G A A A G C A A A G G G G C C G$
$G C C C C A A A G A A G G A G G G G A G G A A A G A G G G G G C C A A C C A G A A G$ G G G A A G G G A GAGGAAAAGGTTGAAAAAGGAAAGGAGAGAAAA A A GAAAGGGGGAAGACCGAGGGAGGGAGAGGAAAAAGAACAA G GGCCAAGGAAGGGGGGGGCAGGGAAGGGAAAAAGAGAAAAA AAAACAGGACAGGGAGAGGGAGGAACCGGAAGGGGAGAAAAG G G G A A G G G A A C G A G A A A A A A A G G A A C CAA G G G G C A A A A A G G C CAAAAGGCCACGGAGGAGAGAGACGGGGGGAAAAGGGGAGGG GAAAAGAAAAGGGAAGGAAAAGGAGAGAAAAAAAGGCGACAA
 AGACAAAAGGAGAAAGGGAAAAAGAGGGGAGCAAAAAGGCCA G TATTGCAGAAACAGGGGAGAGGAAGGAAATGGAGGGGAAGA
 GAAAAGGGGGGGGGGGAAGCGAGGAGAGGACGAAGAAAGGAA GAAAAGGAAGAGAACAGGAAGGAAAAGAGGGGGAGAAGAGAAA GAGCCGGGGAAGAGAAGGGGGAAGGGGAGAGACAAAAAGGGA A G GA $\operatorname{A} A A A G A G A G A A G G G A A G G A A G G A G G G A A G A A G A A A G A A$
 A G G G A GAGGGAGGCCAAAAGGAAAGAAAGGAGAGAAAGAA GA GACAC GAGGACGGAAGGAGGGGGGGAACCGGCAAAAAGGCCA G GAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G}$ GAAACGGAAAAGAAGCAAAAAGGAACAAAGGA $C \subset C G G C A A C A A A A A A G G A A G G A A G A A A G G A A A G A G A A G G G G A$ A G G GACAA $A$ A A A G GCCGGAAAAGGGGGAGGAGGAAAGGGACAA GACGGAGAGGGGACCCCGAAAAGGGAGGAGGAAGACCGAACAA GACAGATAAAAAAAAACAGAAGAGAAAGGTAGGGGCCATGGG G G G G G A A A GA G A GAGAAGGCCAAGGCCGGAAAAAATTAAAAA AGGAAGGAAAAAAGGAAAAAAAAGGAAAAAAAAGGAACCCCC CAAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGGAAG A A GAGAACAAAGAAAAAAAAGAGCCCCAAGGGGAGGGAAAAG A G GAGAAGGGGAAACAGAAAACAGGGGAGACAAGGGAGACAG AACAAGAGGGGAGAAGGGGAAGAGGAAGACAAGAAGGAAGAG GAAGGAAAAAGGACCAAAAGGGAAGCAAAAAAAGGAAAGCCG G G GAAAGACAAAGAAAAAGAAAACAAGGGGGGGCCAGACAGG
 GAAATGAAGCGCCGGGGAAAACCGGAGGAAAGGGGGGGGGGA GAGCCAGAGAACAAAGAGAGGGACCGGAAAAAAAGGGGGGGC A G G G G G G A A G G A G G G G GAC G G A A A GAC GACAAAAATTAAAAC CAAAACCCCAAGGAAGGAAAAAAAAGGGGGGAAAGAGGGGGA GACGAGGGGGGAGAGACAAGGAACAGCGAGAAGAGAAAAGCG GAGAGCCCAGGAAGGGGAAAACCGGAAAAAAAAAAGGAAAAC CAA A G G G G GAA $A \operatorname{A} G A A G G G G G G A A G A G G A A G G A G A A A A C A A A A$ $A G G G G A G A G C A A A G G G G G A A G G G A A G G G G G A G G A A G G G A G G A$ A G G G A A A G G G A A A A G G A G G A G A A A G G G A C G G A GAA A A G G A A A A G G G GAAGAAAACGGGGGAGAGGGGAACCAAAAGGGGGGATG G G GAACCAAAAAAAAGGGGGGAAAAGGAAGGCAAAGGAAGAA
 CAAAAAAGGAAGGGGGGAACCAAAAAAAAGGCCAAGG
C C G G G G G G A A A A A A C C G G G G G G G G G G A A A A G GAAAAAAAA A $A$
 AGGAAGGGGAAGGAAAATTAAAAGGAAAAAAAAGGAAAAGGA A A A A A A A A A G G A A G G T T A ACCGGAAGGAACCCCGGAAGAAAA A G G G G A A C CAA A A C CAA G GAAAAAAGGAAGGGGAAGAAAAAA A G GCCGGAAAAGGAAGGAAGGGGAAGGGGGGAAGGAAGAAAG G G G G G A A A A C C C C C C G G A A G G A A A A G G A A G G G A G G A A G G G A A G GAGAGGGGGGGGAGACGAAAGGCCAGGAGGAGAGAGGAAAG AAAACAAGGGGGAAGCCAAAAAAAGCCGGAAAAAAAGGAGAC CAGTAAAAGAAAAAAAACAGGAGAAGGGAAAACAGBAGAAAC A A A C C A A A CATAGAGAAAGAAGGAACCAAGGAAGGGAGAABAA A A G G A CA G G GACCAAGGGGCCAAAAAAAAGGGGCCAAAAG GA AAAAAAAGAAGGAAGAAAAAGGGAGAGCCGGGGGAAGGACAA

CAAAGAAGGAGAAGAGAAAAAAAGGAAGAAGAAAAGGAAAAG GGACCAGAAGAGAGGACCCAGAAAGAAAGAAGAAAGGGAAAA
 G GAGGAGGGAACCAGGAAGAGAAGGGGGGCACAGGAGAAGAG A G G G G G G G GAA $A \operatorname{GGG} G \mathrm{G}$ GAAAAAAAGGCCGGAAGGGGAAGGGGA A A A A A A A G GAAAAGGAAAAAAAAAAAAAAGGCCAAGGAAGGG G G GAA $A \operatorname{GGGGGAAC} C A A G G C C G G A A G G A A G G A A C C G G C A A A A$ A A A A A A A A A A ACCAAGGAAAAAAAAGGGGGGGGAA GGGGGGG G G G G G G G G G G G C C A A A A A A C A TAAA A GAGGGGGAAACA GAGA AGGCAGACCAAAAAAGGAAACAACAAGAAGGGGTTAAAAAAA AAAGGGAGAGACAAAAAGATAAAGGGGAAAGAAAAGGAAAAA A A A A A G G A A G G G G A G G A G G G G A A A A A G G G A GAAAA A G A A A A A $G C \subset A G G G A A G G A G G G A A G G A A A A G G G G G G G G C C A A A A G A A A A$ A A A C C G A A G G G G A A G G G G G A T A C G G G GAACCCATAA A A A G G G G GAA A G A A A A A G G G A A G G G G G G G G G G G G A A A A A A A A A G G G G G G GAAGGACAGAGAGAGAGGGCAAGAACCGGGAGAAAAGAAAGA C GAA G G G A A A A A A A A C CAA $A \operatorname{AGAGGAAGAAAAAAAGAAAAGGG}$ A A A A G A A A A G G GA $\operatorname{A} G \mathrm{G} G \mathrm{GAA} A \mathrm{~A} A A A C A G C A G G G G G A A G A G G G G$ GAAAAGGAAGGGAGGAAAAGGGGAAGGCCGGAAAAAAGGGGG
 A G G GAGGACGAGGGGAGAAAAACACGAGGGGAAGGGGACACA GAAAAAAGGAAAAGGAGAAAAAAGGGGCAAGGAACAGAGAGAA CACAACCCCCCAAGGAAGAGGAAGGAAAAAAGAAGGAAAGGG G G GCC GAAAAGAAAGGGGACCCCAAGGAACCGGAAGGGGGGA $A \subset C A A A A A A G G A A A A A A G G G G A A A A A A A A A A A A G G T T A A G E G$

 AAAGGGGAAAAGGGGAAAAAAGGAAAAGGAAGGAAGGAGAA G A A A G A GAGAAA A $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A \mathrm{~A} G A A A A A A A C C G G G A G A G G A G G G G$ GAAAAGCAGGGGGAAGGAAAGAGCCAAAAAGAGGAAAAGGGA G GACCGGAAGAAAAACGAGAAGGAAGGAGAGCCGACCAAABA GAAAGGGAAAAGGGGGACCGAGGGGAGGGACAACGGAACAAC CAAAAAAAAACAAGAGGAGGGCCACGGCAGGGAGGACGAGGA G G G G A G A G G G G G A G G G A A A A $A \operatorname{GGG} G A C A G G A G A A A G A A G G G G G$ GACAAGGGGCAAGGGGGAAGGAAGGAGGGAGGGGAGACAGAG GAACCGGAAAGGGAGGGAAAGACAGGGAAAAAAAAGAAAAAA A G GAA A A C C G G GAAAGGAGCCGAGGAGGGAAGGGGGAAAAAA A G GAA A GCCTTGGCCCCGGCCGGAAGGGGAAAAGGGGGGGAA A G G G G A A C C G G G G A A A A G G A A G G A A A A G G G G A A C C G G G G G G A A A A G GCC $C$ G G G GAA $A \operatorname{GAAAAAAAGGGGGGCCCXAAAAGGGGCCA}$ AAAGGAAGGCCAAGGAAAAGGAAAAGGGGGGGGGGAAGAGAA A A A G G A A C C A A G G G G G G G G A A A A G G G G C C C C A A A A A A A A A A A A A A A ACCAAGGGGAAGGAAAAGGGGGGAAAAAACCAAAAAAA G G G G C A G G G G G A A A A A A G G A A A C A A G GA GAGGA G G T T G GT T A $A G G G G A G G A G G A A G G A G G G G G G G A A G G G G A A A A G A G A A A G G A$ $A C C G G G G A A C C G G G G A A G G A G A G A G G G A G A A G G A A G A G G G G G$
 ACCAGGAGGGGGAAAGAAACCAGGGAAAAAAGGAGAGAGGAA GAGACAACCCCAAAAGGGGAACCCCACAAGGCGCACCAAGCG A G G G G GAACAGAGAAAAAGGGCCCCGGGGAAAAAGGAAGCCC C GAAAAAGGAACCAAAAAAAAGAGGGGAGAAAACCGGGAAAA
 G G G A A G G A G G G G G G A G A G G C A A A A A G G G A G G G G A A G A C C G G G GAAAGGAGAAGAGCCCCGACCGGAAAAGGAGAGGAACGGGGG GAGGGGGAGCCAAGGAGGGGGGGGAGAGGGAAAGAAAAAAAG AAGGGAAGGCCAAAGAAAAGGAAGAAACCCCAAGGACGGGAC A A GAAGGGAAAGAGGAAAGCAAAGGAAGAAAAGAGGAGAACA AAAGGAGACAACCCCCAAAAAAAAAAACCGGGAGACCAAGAC $C G G G G A A G G A T A G G G G G G G G G A A G G A A G G G G G G G A A A C A A A G$

A GAAAACAACCAAAGAGGGGGGGCCAAAACCAAGGAAAAGGG G G G A A A A G G G G A T G G G G G G A A A A A A GAAAACAA AAACA A CAA A G G G G G G G GAGGGAAAGGACAACGAGGCAAACCAAGAAAGGG GAACCCCAGCAAAAAAAAAACAAAAGAAAGCGGAAGAAGAGG A A GAGGAAACCAGAGAGGGGGGGACTAAGAGAGAAGGGGCCG G G G G G G G A A A A $\mathcal{A} G G G G G A A G G G G G G G G C C G G A A A A B G G G G G G$ GAAGGGGAAGGGGGGAAAAAAGGAACCCCAAGGGGAAGAGAA AGGAAGGGGGAGACCAAAAAGAAGAGGGACCAAGAGAGAAAA
 GCATTGGGAAGCCGGAGTAAAAAAAGGAAAGGGAAAAGACAG A G GAAAACCAAAACCGGGGAAAACCGAAAAGGGGGAAGGGGA A G G G G A A A A G G G G G A G A A G A GAGGGAAAAAAGGTTAGGAAGG A G G G G G G G G A A A A G GAA A GCCCCGAGAAGGAACGGGAAAA G G $G C \subset A A C C G G G G A A G A A A G G A A A A A A G G T T C C G G C C A C G G G G G$ GGGACCCAAAAGGGACCAGCAAAAAAAGGGGGGGAGAAAAGA G G GCC G G G G G G G G G G G G G G A G G G A A G GAAC C T A A A G G G A G G A A G G G G GACACCAAAAGGGGAAAAGAAACCGAGGACTTGGGAG A A C G G A A A A G G A GA GAGGAAAGGAAGGAAAAGGCCGGGGGGA AAAAAGGAAGGAAGAGGCCGGAAGGGGGGGGGGAAAAAAGGA ACCGGAAAGAAGGAAGGGACAAAAAAAAAGGGGAAGAAAACB GAAAGGGAAGGCCGGGAAGAAGAAGCCAAGAGGACCAGGGGG G GAA ACAGGGGAGAAAAGGACAGAAGAGGAAGAGAAAGAAAA $A G G A A G G G G G A G A A G A G G G G G A G G G A G G A G G A A G G G G G A G G G$
 G G G G GCCCAGACCGACAAGAAAGGGAAGAGAGGGGGGGAGGG A A G G GCCGAGGAGCCGACCCCAACCAGCCGGCCAAAAGAGGA A G GAAA A CAGGAAGGACGAAAAAGGGGAGGGCCGAATAGGAC
 C C C G G A A A A A A G G G G G G G G G G G G G G G A A A CA $A G G G G A A G A A A$ AGGAAAGGGGAAAGGAAAAGACCGGCAAGAAAGAAAAAGGGG GAAGGGGCCGGGGAAAAAAAAGAAAAAAGGGAAAAAAAAGGG GGGCAGCAGGGCCAACCGAAGGGAAAAAAGGGGGGCGGAGGG
 $A G G C A C C A G G A G A G G G A A A G G G G A A C C G G A A G G A G G A G A A A G$ GAAAAGAGAGGAAAAAAAAGGAAAAAGAGGGTTCGGGAACAA A GAAGCCAAAAGACCGAAAAGAAGAGAGAGGCCGGGACAGGA CAAGACAAAGAAGGGGAGAGGAACCAAGACCGGGAAGAAGGT TAGAGGAAGCAGGGAACGGAAGGAGGACAGAGGAAGAAAGGG A G G A G G G G G G GCCTAGATTGGAAAAAGCCGGGAGGAACCGGG
 A GAGGGGAAAAGAGAAAAAAGAGAAGGAGAAGGGGGAAAGAC A G G A G C C A A A A A A G GAA A $\mathcal{A} G G G G A A A G T T A G C G G G A A G A A G G$ AAGGGACCCGGCCGGAAGGAAGGAAGAGGGGAGACAGGGGAA
 A A A G G G A G GAA $A \operatorname{AA} A G G G G A A A A G G G G G G G A A A A G G G G A G A A G$

G G G G G G C C G G A A G G G G G G G G G G G G G G A A G G A A A A G G A A A A $G$ GAAAACCGGGGGGGGCCGGGGCCGGGGGGCCGGAAAAAAGAA A A A A ACCAATTGGAAAAAAGGGGGGGGGGGGCCAAAAAAAGA AAGCCGAGAAAAAGGCCAATTAGAACCAAGGAGAAGGGGAGG GAAGGGACGAGAAAGACCAGAAAGAAAAGAGGGGGGAAAAAA A G G G GAG $\operatorname{G} G A X A A A G A A G G G G G A G G A A G A G A A A G A G G G G A A C C$ A G G C C C C G G A G A G A C G G C C G G A C G G G G G G G G G A G G A A A G A A GAGGGGGACAAAACCGAAAAACCAAAAAAAAACGGGAAGAAA G G GCAAATTGGGGGGAAAGACGGAAGGGAACAAGGGGAAAGA $G C C A A C G A A G G G G A A A A A A G G G A G G A A G G G G A A G G A A C A G G A$ A G G GAGAAGCACCAACCAGAAAAAAAAGGGAAAAAAAGGGGA A A A G GAAAGGCGGGACCAAGGCAGGAGACAAAAGGAAAAAAA GAAAAAAAGGAAAGGGGAAAGAGGGAGGAGGAAGAGGGAAAA

GAGTAGGGGAAGGGAAGGGGAGAGAGGAAGAAAGGGGGGGGG


 GAACCGGAGAACAGGAAGACGAAAGAACAGAGGAGAAGAGAA A G G G G A A A A G C A G A A G G A A G G A G A A G G A C A G G G G G G G G G C C A GAGGGGGAGGGGGAGGGAAAGGGAAAAAAAACCAAAAAAAGG $G G G T A A A G G G G G A A G A G C C A G G A G A G A G A G A G G A A G A A G G G A$
 $C \subset C A G G A G G A G G G C A G G A A A A A G A A A A A G G G G G A G A G G A G G G$ A G G GACCGGAAAAGGGAGGTAAAGGGAAAAACCGGGGAAAAG G G G G G A G A A G G A A G A G A A A G GAGGGGGAGAAAGAC GAAA A A A A G G G A GAGCAGGCAAGAGGAAGGGAAGAAAAAAGGAGAGAAA GAGGAAGAGGGAGGGGAAAAGAGAGCCGGGGAAAAGGCAAAA AAAAAGGACCCGGAAGGTTAACCAGAAAGAGAGAAAAGGCCAA AAACCGGAAAAGGGGACAAAGGAAGGGGGAAGAAAGGGGAGG GAAAAAGCCAAAAAGAGAGAAAGGGAGAACCGGGGAAGAAAA G G GAAAAAAGGGGGGGAGCGACAAAAAAAAGAAACCAAACAA TGCAGGACCCCCCGGAAGGAAAGAAGGGGAAAAGGAAGAACC
 GCACCGGAAGGAGGGGGGAGGAAAAAAAGGGAGCAGGAGAAT A G GAAAACCAGAGGAAAGACCGGCCGGGAGGCCAAAGACGGG AAAACGGGAAAAAGGGGAGAGGGGGGGAAAAAAGAAAAAGAA A A A A A G G G ACCCCAGCCAGATGAGGAAGAGACCAAAAAACCG GAA $A \operatorname{G} A A G A G G C C G G G G T T G G A A G G G G A A A A A A G G G G G G G G G$ GAAAAGGGGACAAACGGACAAAGAAAGGAGGGGAAGAATA G C CAA $A \operatorname{G} G A A G C C T T C C A G A C A A G G G G G G G G G A A G G A G G G G G G A$ A G G A A A A G G GCCA G GAAAAAAAAGAGGGGGAAAAAA GGGAAAG GCAGGGAAAAAGGCCGAGAAGGGAGGAAAAACCAAGACAAGC CAAAGAAGACCAACCGGAGAAAAACCCAAAGAGAGGAGGGGG GAGGGACGGAAGGGGAAAAGGAAGGGGGAAACCGAGAAAAAC AAAAGAGAAAAGGAGAACAAGGGAGCCAAGGGAAAGAAGCCC GCCAGAGAGACGGGAGGGGCCGAAAGGAAGGACACAAAAGAA ACAAAAAGAGAGGAAAAGAGGAACCGGGGGGAAAAAGAGAAC C G G G GAGGAGACCCCAAAGGACAAAAAGAGAAAAACCGGGGG GAAGGGGAAAAGGCCAAGGGGAAACAGACAAGACA GGGAGAA GAAA A GAA $A$ A A A G G G G G G C G G A G A C A A A T T G G G G A A A C G A A G G A A GCCAAAAGAGGGAGGAGGGGGGGACGGGGAAGAAGCAGAA A G GCC CA G A C A A G A GAACAAAGGGAAGAGAAGGAATTGGGAA A C C A A T T G GAA A C GAAAGGGGAAGAGGGGGAGGCCAAAAA G G $G G A A G G A A G A A A A C C G G A G G A A A A G G A G G G G A A G G G A A C G G C$ C A A A A A A G GCCAG G GAAAAGGGAGAAGAGCCAAGGAAACAAA A GACAAGGGGGGGGGACAACAGGCCCCGGGGCGCAGAGGGAA G G A A G G G G G A A A G A G G G G G GAAACACCAAGGAAG GAAAAACC CAAAAAAAAAAGGGGAAAACCAGGAAAAAGGAAAGGACCCCG A GAGAGAAGAAGGAGAAGAGACCAAGGGGAAAAGGCCAAGAG GAGGGCCGGGCGCACGAACAGCCGGGGAGGGAAACACAAGGG AAAGGGGGGAACCGGGGAAAAGAAAGGAAGGGGAGGACAAAG GAACCGGGGAAAAAAAAAAGGGGAAGGGGCCGGGGCCCCCCG G A A G G A A A A G G G G G G G G A A G G G G G G A A G G T T C C G G G G C C C C A A G GAAAAGGGGCCAAAAGGGGAAGGAAGGAAGGAAGGAAAAG GAAAAGGAAGGAAGGCAAAGGGGAAAAAAAAAAGGGGGGGGG G G G A A A A A A G G A A C C G G G G A A G G A A G GCCAAGGCCGGAAAA G GAAAAAAAAAAAAAAAAAAGGAACCCCAAGGAAAAGGAAAAA A G GAA $A \operatorname{GAA} \mathrm{~A} G A A A A G G G G A A A A A A C C C C G G A A G G C C G A A A G$ GAAGGGGAAAAAAAAAAAAGGGGAAGGAAGGGGGGGAAAAAG G G G G G A A G G G G A A C C A A G G G G A A C C A A G G G GAAAAAAAAA A G G
 AAAAAGGGGAAGGAAAAAAAAAAAAAGCCGAGGGAAAGAAAC

C G G G G G G C C G A G G A G G G A A A A C C G G C C G G G G G G G G A A A A A A C
 AAACCCACCAGGAGAAAAAGGAAGGAAGAGAAGCCGAAAAAA G G GAA $A \operatorname{GGA} A A C C G G A G A G A A A A G G G G G G A G C C A A G A C C A A A$ AAAGGAAAAAAAAAAGGAAAAAAAAAAAAGGGGGGCCGGGGG
 GAGCCGAAAAGCCAGAGAAGAAGAGTAAAGGAAAACCAAA GA G GAAAAAAAAAGGAAAGAGGAAAAAAAAACACAAGAAAAGGA AAAAGGAAGACGAAACCGGAATAAGCCAGGAAGACAAGEGAA A G G G GCCAGAAGGGAAGGGGGGGAAAAGGAGAGCCAAGGAGC CAAAACCAAAAAACCAAGGGGAAAACCAAGGAACCCCGGGGG G G GAA $A \operatorname{GA} A G G G G A A G G A A C C G G A A G G T T A A G G C C G G A A G G C$ CAAAAAAGGAAAAGGAAGGAAAAAAAACCAAAACCGGCCCCC CAACCGGAACCGGTTTTGGTTCCAAAAAGAACCCAAAAGCAC A GGCCAAAAAGAAAAAGACAAGAGAAGGGCCCAAAGAAAGGG G G GAGCAAGAAAAGGGGGGGAGGAGAGAACCCGAGAGAAAAAA GAAGGAAAACCAAAAGGGGAAGGGAGCAAAAAAAAACBGAGG A A A G G GAGGAGGAAGGAGAAACAAAAGAGAAAAGAGAAAAAA GAAGAAAAAAGGGAACACCACGGGAAACCGACCCCAGAAGGG G G G G G G C G G G G A A C C G G A A C C C C A G G G A A C C G G C A G A A C G G G AAAAGAAAGGGGGGAGGAAGGAAGGAAAAGGAAGGAAAAAAG GACGGCCGAAAACAGGAAAAGAAGGGGGGCCAGGAGAACAAG G G G G A A A $\mathcal{A} G G G G A G G G G C A A A G G G G C A A A G G C A A A G G G A A G G$ G G G G A A T G G G G A A G G G G A A GAGGAGGGCCAGACAAAAAAA GA ACAGAAAAAAAAACCAAACAGAAGAGGAAGGGGAAAAAGAC G GAAAAGGAAAAAAAAGGACAGTAAGAAGGAGAGGGGGGGAGA GAGGGGAAGAGAAAGGGGGAGAAAAGGAAAAAGAGGGAAGAA A G GAACCAACCGAGGAAAGGAGGGGGACGGAAGGGGGAACAA GATGAAGCCGGAAGGAAGGGGAGAAGAAAGGGGGAGCGGGGG G GAAAAAACCCGGACGGAGGAGGAAGGGGAGGACCGGGAGAA
 G G GACACAGGGGAAACCGGCCGAAAAGACGGGAGGAAGGGGG

 GAGAACCGAGAGGGGAAGAGACAAGGGAAACGGGGGGCACAG GAGGAGAAAGAAAAGTAGGAGGGGGCCAAAACCGGAAAAAAA
 C T T G GAAAAGGAAAAGGAAAGGGAAAGGGAGAGGGAACAAAA G G GAA A GACCCGACCAAGGCCGGGGGGCAAGAAGGGGACAGB $A \subset A G A G A G A A A G G A G A A C C A G G A A G G G G G G G G A G B A A A G A A G$ GAAGAACAGGAACAGAAGGAAAAAAAAAAAGAGCAAGGGGGG A G G G GCCAAAAAAAAAAAAGGAAGGAAAGGAAGAGACGAAGA A G G GAGAGAGAGAGGGAGGGAAAAAGGCCAGGGGAGACAAAG G G G A A A C A A G G A G G G C C G G G G C C G G A G A A G G G A G G G G G G G G G GAAGGAAGAAGGGAAGAGGCGGGGGAGGGAAGGGGAAAAAAA AGGAAAAAACCAGAGAAGGAAGAAAAACCACCCAAGG
$G G C C G G G G C A C A G G G A C A A A G A G A G G C A G G A A A A G G A A A A G$ GAAGGCAGGACAGGGAGAGAAGAGGGACAAAAAGGAGCAAAG AAGCAGGCCAAAGAGGGAGGGGGGAAAACAAAAGGAAGAAAG A G G GAGACCGGAGAAAGCCAACAAAGGAAACGGAAAAAGGCA
 C G G A A G G G G G GC C A A G G G G G G G G G GC CAA A G C CAA A C C G G G G G GAATTAAAAAAGGGGGGCCAAGGAAGGGAGAGGGGGGGAAGB G G GAGGAAACAAGGACCACCCAGGAAGAAGGAAAAAGGGGGA GAAAAAAAGGGGGTAGAGGAAACGAAAGAGACAAGGGAAAAG GACGAAACAATAGACGGCAGGAAGGAAAAAAGGCGGGGAACA A GAA A G GACAGAGGGAGAAGGCAAGAAAAAAGGGAGAAAAAA A GAGA G GAGGGGAGGCACAGGGAAAGAGAAGGGAGAAAAAAG GGGAACCCCAACCAAAAAAGAGGCCAAGGGGAGCCAGAAAAA

G G GAAAAGGAAACAGGGAGAAAAGGGGAAGGGGAACCGAAAA
 GAAAAGGGGGGAAGGAACCCCAAGACCAAGGGGAACCAAGAG G GACCAAAGAAAGAAGGAAGGAGGGAAAAAAAAACGAAAAAG G GAA $A \operatorname{GA} A A A A G A G G A G G G A C A A A G G G A G A A A A G G G A G A G A G$ C GAG $\operatorname{G} G \mathrm{G}$ GAAGGAAGGGGGGAAGGAAGGGCAAAGAAAAGAACC CAAGACAGAAGGAGGAACAAGACGGGGAAGAGGGAAGGCGGC C G GAACCCCAAAAGGAGAGAAGAGGGGAAGGAAAGAAGAGAG G G G G G A G G A G A GA $\operatorname{A} G A A A A G C X C G G A G G G G G G G G A A G A G A A$ C TAGAAAGAGGCAAGAAAAGGGGAAAAGGGGGGGGAAAACAA
 G G GCCAAGGGGAACACAGAGGAAGAAGAAGGGGGGGAABACB A G G A A A G A A G G GA $A$ GAGGGAAAGGAAAGGAAAACAC GAA G GAAA
 AGGAAGGAAAACCCAAAAAGGAAAGGAGAGACAGGAGGGGGA G GAAGAACCAGCAGGAGGAAAACGGAAAAAAGGAAAGAACAA A G GAACC C G G A G G G GAAAAAAAAGAGAACCGACAGBAAGATXC C G GACAGCCGGAGAGGGAAAAAGCCAAAGGAAACCGGGAAAC

 AAGGGAAAACAGGGGCCGGGGCCAGGGGGCAAGCAAGACAAA A G G GAA A ACGGGAGGAAGGGGAAGACACAAGCAGAGGAAGAA GACAGCCAGGAGAGGGGAGGGGGAGAAAGGAGGAGAGABAAC C G G A G CAAA A G G GACAAAGAACCCCAAGGAAGGGAGGGGGGC $A C C G G A A A G G G A G A A G G A G A G C A A G A G A A A A A G A C G G A A G G G$ GACAAAGGAGGAGAGAGACAGAAGGGGAGACGGAGGAAAGAA A A A G G GAGGGGGGGGAAAGGGGGAAAGAGAGGGAAGAAAAAA A G G GAGGCCCCCCGGGGCCGAAGGGGAAGAGGAAGGGGAGGG G G GAC GACAACAAAGAAAGAGCCGGAAGGAGGGGBAAGAGAG G G G G G A A C CAA A A GAGATTGGAGCCCCCCAAGGAAAGCAGAA G G G A A G A A GAA $A \operatorname{G} \operatorname{A} A A G G A A G A G G A G A G G A G G A G G G C A A A A A C$ CAAGGAACCAAGGGGGGGGGGCCGGGGGGGGAAGGGGAGGGG
 A GAA A A A G GAAGCGGGGGAAGAAGGGGAAGGAAAAAAGAAGA C C C G G A A G GAA $A \operatorname{GCC} G A C C A G A A G G A A G A T T G G G G G G G G G G A$ A A A G G A A A ACCGGAGACGAGAAGGAGACCAACAAGGGAAGGC A GAGAAGCCAAAGAGACGGGACAAGGACAAAAAGGGGCAAAA A G GAGGGCCGAGGGGGGAGGAAAAACCAGGGAGAGGAGAGGG A GAGGAAAAAAACGACAGGAGCCGGGGGAATAAGAACAAAGA AAAGGCCAGCCGAAGAAAACCGGGGAGGAGGGAAAGGGAAAG GCCGAAACCAAAGGGGGGAAAAAAAAGGAAAAAGAGGCCCCC C G A A C A A A A A A A G A A A A GAGGGGAGCCCCCCAAGGAAABAAG GAACCGGAAAGCAGAAGGGAACCGAGGGAAGACAGAAACGGG G G G G A G G G G G G A G G GC C G G G A A G A A A CAAAAAAC G G G G G G C C G GAGAACCGGGGAGGGAGGGGAAGAGAGAACCAGAAAGAAGBG $G C C G A A A A C G A G G A A A A A A A C G G G G G G G A C C G G A A A A A A G A A$ $A G G G A G G A A G G A A G G C C A A A G A G A G A G G A A A G A A G C C A A G E G$
 G GAAACAGGCACAAACAAACCGGCCAGAGGAGAGAAAGGGGG G A A G G G A T T G G G A G A G G G G G A G G A G G A A A G G A A G G A GA C A A A A G G A G A A G G G G G GCCAAAAAGGAAGGGAGGAAAGCCAAGAGAG $G C C G A G A A A G A G A A G A A G A A G C A G G A A G G A G A A A A G G G G G G A$ A G G A G A C G G A G A G G A G A A A A A A A G G G G A A G A A G A A G A A G A G G A G GAGAAGAAGCAGGAGGGGAGAAGAGAGGGGGAGAAAAGGG G G G G G A G A A G G G G A GAGGGGGCCCCCCGAGGGAGGGGAACAA A G G A A A A G A G A A A G GAA $A \operatorname{A} G A A A G G G G G A A A G A A A A A A A A A G C$ A A A G G A A G GAGGGCCGGGGGGCAAAAAGACAGAGAAAAGA GA C GACAGGGAAGAAAAAGGGAGAGGGAAGGAAAAGGAAA GAAA CAGAACCCAGGAGGGAAAAGAAAAAAAAGGGGGAGGACAGAC

C GAAAGGAAAGAAAAAGGGAAAAAAAAAGAGGAAAAAAAAC G G G G A A G G A A C C G G G GAAAAA A GA GA GAC C G GAA A A GAAAA G G G G G G G A A A GAA A A A G G GAACAAGGAAGGGGGAGAGACACA G G AGGGGGAGGACAAAGAAAAAGGAGGAAAGGAAACCAAGAAAG GA $\operatorname{A} A A A A A A G G G G C C A G G A G G G G A A A A G A A A A A G G G G A A C A G$ A GAGAACAGGAACAGACAGACAGAAGGAAAAAAAAAAGGGGA A A A A A A A A A A A G GAACCAGGGACAAGAAAAAAGCCGGAAGEG $G C A A G A G G A A C G G G G G G G G G G A A A C G G A G G G G A C C A C C G G G G$ GAAACGGAGAAAGAAAAAAGGCCGGGACAGGCAAGGBAGAAG G GAAGAGAGAGGGGGAAAGAGGGGGAAAGCCCAGGAAAGAAC C GAA A GAGGAAGGAGGAGGCACAAAGGGGGAAAAAAACAAAA A GAAAGAGGGGATAGCGGGAAAAAAAAAGGGAAGGAAAAGCC C CACAGGAAAAGACAAAGGAAGGGGAAAAGAAAAAGAAAAAG G G G G G A A A G G G A G A A G G G G G G A A A C G GAGGGAGGAAGGAAA A G GAGAAGAGAGGGAGAAGGAAAAAAAAAAAAAAAAAAAAGGA AAAGGGGACAGAAAAGGCCGGAGAAGGGGAACAAAACBGAGG
 GAAAAAAAAGGAAAACCAAGGGGGGAAAGAACCAAACBAGGG GAGAGAGCCGGAGCCAGAGGAGAGGAAGAGGGGAAGGCAAAG GAACCGGGGGGGGCCGGAAAAAAAGAAAACCGGAACCCAABA $A C C C A A G G G A G G G A A A G A T G G G A G G A G A G G A G A A G G A G A G G G$ A G GAGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGAAGGGGGG GAGGAAAGGGGGGAAGGAAGAAGAGAAAGAAAGAAAAAAGAA G G GCCCCCCGAACAGGGGAAAGGAGCCAAATAGAGAAGAGAA GCA $\mathcal{C} A \operatorname{A} A A G G G G G A A A C A G A A A G A G A A G G G G G G G G G G G G G G C$ CAAAAAGACGAAGAAGAGGGAGAAAGGAACCGAGGAAAAGGC AAAAGGAAAAAAAGGAAAACAAAGCACACCCAAACAAAAAAA GAGGAAAGGAAGGGGGAAGAACCGGAAAAGGTAACAGBAGGC CAAGGGGGGCCCCGGGGGGCAGAGGAGAATTGGAACCGGGGA A G G G GACCCGGGGGAGGAAAAGACAGGCCAAAGGGAAGGGGG G G GAGCCCCGGCCAGACAGAAAAAAAGGAAGGAAAGACAAGG GAAGGAAAAAAGAGGAAAAAAGGGGAGAAGGAAGGAAAAACA A A A A A A A CCGGGGAGAGGGGGTAAAAAAAAAAGAAAGAGGAA A A A G G A A $\mathcal{A} G G G G G A A A A G G A A G G A A A A G A A G G G C C A A G G G G G$ GAAAAGGGGGGCCGGGACAAAAAGGGAAGGCGCGAGGAAAAA G G GCCGAGGCAAAAAGAGGGGCAAAAACACCAGGGGGGGGGG GAAAAGGAAGGGGGAAAGGGGAAAAGGGGAGGGAGACAGGAG
 GAGAGGGGGAAGAAGAGAAGAGGAAAAAAAGGGGGCCAGGAG
 GACGGAAGGAGAGGAAAGGAGCCAAAAAGCCACAACCAACAA A G G G A A A A A A A GAAAAAAGCGGGAAAAAAAAGGAAAAGAGAA AAAACCCGGACGAAAAAAAAAAAAGACAGGAGAAGAGATAGA G GAAAAACCAAGGAAGGGGAAAAGGAAAACCAAGGGGAAAAG G G GAAAAAA A $A \operatorname{A} G \mathrm{G} A A A A G G G G A A A A A A A A T T A A G G G G A A C A A$ A G G A A C C A A G G A A G G G G G G C C G G G G A A G G G G A A G G A A
A A A A A A G G A A GGCCCCGGGGCCAAGGGGAAGGAAGGGGAAG GAACCAACCAACCGGGGCCCCCCGGAAAAAAGGGGAACAAAA A G G G G G G G G G G A A A A A A G GCC G G T TAA A GAAAAAA G G G G C C G G G G G G T T A A A A A A G G G G A A A A A A A A C C G GAA $A \operatorname{GGGGGAAAAAA}$ $A G G G G G G G G A A G G G G A A A A A A A A G G G G G G G G G G A A A A A A A A G$ $G G G A A C C G G G G A A A A A A A A T T G G G G G G C C G G C C G G C C A A G G G$ GAAAACCAAAAAAAAAAAAGGGGAAAAGGAAGGAAGAAAAAA A A A G G G GAAAAGGGGGGGGGGGGAAGGGGAAAAGGCAAAGGG GAAAAAAGGAAGGAAAAAAGGAAGGCCGGGGAAGGAAAAGGG GAAGGAAAAGGAAGGGGAAAAAAGGAAGGGGAAAAAAAAAAG
 G G G G G A T G G A A A A $\mathcal{A} G G G A A A A G G G G G G G G G G A A A A A G G G G G G$ $G T T A A G G A A G G G G A A C C G G A A C C G G A A A A A A A A G G G G A A C C G$

GAAGGGGGGAAGGAAGGAAAAGGCCGGAAGGCCGGAAGGCCG GAA $A \operatorname{GA} A G G A A A A T T G G G G A A G G G G G G A A G G G G A A A A A A T X C$ CAAGGCCAAGGGGGGGGCCAAAAAAAAAAGGTTGGGGGGGGA A G GCCGGGGCCGGGGGGGGAAAAGGGGGGAAGGCCAAGAAAA $A C C G G G G G G A A A A G G G G A A G G A A A A G G G G A A A A G G G G G A A A T$ T G GAACCAAAACCAAAAAAGGAGAGAAGGAACCGGGGGAAAA A A A A A G G A A A A G G A A G GCC G GAA $A \operatorname{AGGGAACCGGCCAAGGCCG}$ $G C C C C A G A G G G G A A G G G A A A A A C G A A G G A A G G G G G G A A G A C B$ G GAGACAGAGGGGCAGACCCAGCTACCGAAAAAGAAGCAAAA GAACCAAAAAAGGCCAAAAGGGGAAGGCCCCAAAAGGAAAAC C G G G G A A G G G G G GC CAAAAAAAAGGCCGGAAGGCCAAAAGGG GAAGGGGGGGGAACCAACCAAGGTTAAGGGGAAAAAAGACCA A G G A A A A G G G GCCCCGGGGCCAAAAGGAAGGGGGGAACCCAA
 A G G G G A A A A A A G G G G G G A A A A A A C CAA $A \operatorname{AGGGGGAAAAAAGGA}$ AAAGGAACCGGGGAAAAAAGGGGAAAAGGAAAAAAAAAAAAC C A A A A A A A ATTCAAAGAAAGACAAAAGGAGGGGAAAAAAGBA GAAAAGGGGAAAAGGGGGAAACATACCAGGGAAACAAAAGAA A GAGAAGGGCCATGAGGGACCGAAGAAACCAGGGGGAAGCAA CAAGAGAGAGACCAAGAAAAGAGAAAAAGGACAGGAAGAAGG AAAAAGGCCAAGGAAACAAGACCACGAGGGACAAGGGGACCG GAGAGAAGGAAGGAAAAGGCCCCAAAAAACCAAGGGGGGGGG GACAGGGGGCAGGAGAAGAGGGAGAAGAAAACCGAACAAGGG G G G A G A G C C A G A G G GAGGCAGAGAAAAGAGGAAGAAAAAAC G GAATTCCGGAAGGGGAGAGGGGGACGGGGAAAAGGAACAAAG G G G G GACAAGGAGAGAGAAGAGAGAGAGGCCCCAAAGGAAAA A G G G G G GAACCAAAAAAAAAAGAGAGACCGGCCAAAAGAGAA A GAGGCAGGAGCAAGGACACCGGAGAGAAAGAGAGAAAAAAG
 A GAGAAAACGGCCAGGGAGCCAGAGGAGAAGGAGGAGGGGGG
 A G GAGGGGGGAGGGAGAGAAGAAGGAAGGCCCCAAAAAAGGG A G GCACCGGAGCCGGAAAAGAGAAAGAAAAAAACCAAGGCCG A G GAA A A G G GAGGAGAGCCGGACGAAAGGAAAAAAAAAGAAG A A A GACCAGGGAAAAAAGAGGGCAGAGAAGGCCAAAAAAAAG G G G G A GA G GCC C A A A G G G G G G A A C C G G C C G G A G A A G G A A A G A A A A G G A A A GAA A A G GCCGGGGGGCCAAGGCAAGCCAAGAAGG CAGGGGGAAAGGAGAGAGAGAAGAGACGAAAAGAACCAAAGG A CAA $A$ A A $A G G G G A A G A C C A A G G G A C G G A C C C A A A A A A A A A A G$ GCCGGAAGGAAGGGGCCGGGCAGAGGGGAAAAAAAAAGGGGG GAGGAAGAAGAAGGGAGGGAACCGGGGAAAGAACCAAGAGAA AAAGGCCGGTTAACCGGAAAACCCCAACCGGAAGGAACCGGG G G G G G G G G G G G G G C C G G G G G G A A G GAAAAA A A G C C G G GAA A A GAAAACAGGGGGAGGGAGGACAGGGGGCAAAGGAGGAGACCG A A G G GCAAAGGAAAAAAGGAAGGAAAAGGAAGGGGAAAAGGG GAAGGGGAAAAGGGGAAAAAAGGGGAAAAGGAAGGGGGAGAA G GAGACAGGGAAAGAAGACGCGAGGAAGGACGAAAAAGACGG C GAGAGGAAGAGAGGCCAAGGCCGGGAGAAAGGCCAAGAAAC C G GA $\operatorname{l}$ A $\operatorname{A} A A G G A A G G A G G G G G A A C C A A A A G G G G A G G G A A G G G$ G G G G A G G A A G GCCAAAAAAACAAAGAGGAAGGAGAAGAAAGBC CAAAAGGGGAAAAGGGGAAGGAAAACCGGAGGGAACCAAGAG GCCGGGAGAAAAAAACAGGAGAAACCCACGGAAAAGAAAGGA GAAAAAGAGGGGGGAGGGGAAAGGAGAGAAGAACAGGAGGAA GGGGGAAAAACGAGCAGAAGAAACCAGGAAAGAAGAGAGACG AAAGGAAAAAAAGGAGGGGGGAGAGCCAAAAAGAGGGCAAAC C G G G A C C A A GAGGGGAGGGGGAGGAAAACCCCACCGAGAAC G GAGAGAAAGAACAAAGGAAGGAAAAGGGGAACCGAAGGGGGA A G G A A G G C C G A C C A C G G A G G G G G G G G G A A G G G G A G A G G A A G C CAGGGAGAGGAACAGGGGAGAAACAAAGAGAAAAAAAGAAAA

A A A A A A ACCAACCGGCACAGGGGAAGGAAGGAAGGAACAAAA A G G G G G G A A GAAACCAAAACAGAAAAAGGAAACGAAGAAGEG $G G A G G A A G G G G C C G G A G G G G G G G G G A G G G G G G G G G A A G A A A G$ A GACAACGGGCGGGAGGCAGGGGCCGGTTAAAAAAGGCCGGG GAAAAGGCCAACGAGCAAGAGCAAGGAAGGGGGGGGAAAAGAC C GAAACCAGCCAAGGACAAGGAAGGAAAAGGAAACAGGAGAA GAAAAGGAAAGAACCCCGGAGCCAAGGGGGGAGACGGAAAGG AGGAAAAAACCAGAAGGACGAAGGGAGAGCCAGAGAAAAAAG A A A A A GAGAAA A GCACCGGGGAGGGCCCCGGAAGAAAAGGAA A GAGGGGGAAGGGAAAGGGAAAAAGGAGGAAAGAGCCAAAAA AAAGGGGCCAACCAGAACGAAGGGAGGGGGGAAGGAGGAAGA GAAGAAGCAGGAGAAAAAAAAAAGGAGGGAACCGGATGAGGC CAAAAAGGGGAAGACAGCAAGAAGACGAACCAGAAGGCCGGG GAAAACAAAACAAGAAAAAGGGGCCAAGAGGCCCCCACCGGG A GAGAGGAACCGGGAAGAGGAAAGAAGAAGGAACCAGGGAGG A A A A A A A GAGGGGAACAAAGACCCCAGGAGAGGACAGAAAAC C GAGAATAAAAAAGGGGGGAAGGAAGGAAGGCCGGGAAAAAC CAAGGGGGGAAAGAGAACCGGTACCAAGAGGGAAAAAGAAGG GAGAGAGAAAAGAGGCCAGAGACCCAGGAGGCAGAAAAGAGA ATTAGAGCAGAAGGAGGAGGAAGAGAGAGGAAACAGGAAGGG GAGCCAGGGAAGGAAGGAAGAAGAAAGGGAGAAGCGAAGGGG
 AAACAGGGAAAAAGGGGAACCAAGGGGGGCCCCCAGGAAAAAA A A ACATTCCAAAAAAAGAAGGGGAGGAGGCCAGAAGGAACCB GAACCACCCAAAAGGGACCAGAAGAAAGGGAGGGGAGAGAAA G G GCAGGACCACCGGAAGGAAAGAAAAGGAGAAAAGACCGGA C G G GAGGGAAAGGAGCCGGGAAAAACAGGAAAA G GAAAGAGGC C G A A A A G A A A G G G G G A G A G GA G A G A A G G A A GAA A C G G G G G G A $A C C A A G G G G A A C C G G G G G G C C G G A A G G G G C C G G C C G G G G G G G$ GAAGGGGGGAAACAGGGAGGGGGGGGGAAAAAAGGTTGACCG GAAGGAAGGAAGGACGGAAAGAGAAAAAAGAAAAA GAGBCCG ACAAAAAGGGGGGGGAAAAGGGGCCAACCGACGGGGGACAGA A A GAGAAGGAGAAAGACGGCAGGGAAGGAACGAGGAACAAAG AA $A \subset C A G G G A G A C A G A G A G A A A A G A G G G A A A G A A G G G G G G G G$ A ACGGCAAAGGAAAAGGGGAAGGGGAAACGAGGGAAAGGGGA A A G A A GAGGGGGGAGAGGAGAAAAGAGGACAGGAAAAAAGGG GAAAAAAAAAAGGGGGGAAGGAAGAGAGGGGAGGGGGGAAAA A G GAA A G GAAACCAAGGCCAAGGAAGGAAAGAAAA GAG GTTG GAAGGAAGGAGACGGAGGGACGGGGAAGGAAAAA GAGABAAG GAAAAAAACACAGAGGGAGAAAACCCAGAGGAAAGGAGGGGA G GAGGGGAAGAAACCAAAAAAAAAACCGAAAAAAAAACCGGC A G G A A G G A A A A A G G A C A G A A G G G G G G G C C G G A G G A A G A A G G G G G GAAAGAACCGAAGACGGAGAGCCAAGAACAGAGAAAGGGA GACGGGGGGGAAGACGGGGGGGGAAAAAAAAGGGGGGAACAA A A A G G A A T T G G GAGAAAAAAGAGCCAAAAAAAAAA GGGAAAG $G G G A A A A A G G G G G G G A G A A G A A A G G A A A A A A G G G G A A$
G GCCGAAAAGGAGGCCAAAAAAGGAAGGAAAACCCCAACCG AGGAACCAAAGGGGAAAAACCGGGGGGAAAAAAGAGAGGAGC AAGGAAGAAGACCGGGGAACCAAGGAACAGGAAAAGACCGAA GCCGAGGAAGGCCGACCCAGGGAGGGAGAGAAAGAGAAAAAA A G GAAAAAACAGAAGAGGAGGAAAAGGGGACCAGGAAAAAAA A A A A A A A CAGGGACCAGGAAAGGCCGGAAACGAAGGGAAGAAA A G G G G G A G G A A G G G A G G A A GAGGGAAAGAGACCAGAAAAAAA G G GAGACAAAAGAGGGAAAGAGGAAAAGAAGGGAGGAC GAAA A A A G G A A G A A G A A G G G G GAGAGGGAAAAAAAA AAA G G A G G C C A A G G G G G G G G G G A A G G G A A A G G A A A A A A A A A A A A C CAAAA A G A A TAG $A \operatorname{GA} A G G G G G G G G A G C A A A A A G G G G C C G A A A G G A A C A A A A$ GAAAGAGGGGAGAGGGGAAGAAGAAAAAAAAACAA GAACGGC CAAAAAAAAGAGGAGAGGGCCAAGGCAGGGGGGGGAAAGGAA

A G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGGCCA A A G G G G A A A G G G G G GAACC $\mathcal{A} G G G G A G G G G G A A G G C C G A A A A A A$
 AAGGAAACCAACACAAGAGAGCGAAAAGGGGAAAAGGGAAAA
 GACAGGAGAAGGAAAGGGGAAAAGAAGGGCAGAGCAAGGGGG A GAA A G G A A GAGGGGAACCAAAGGGGGAAGGGAA GAGAAGAG G G GAAAAGGCCAAGAGGAGAGCCGGGGGGGGGAGGAAAAAAC C A A C C G G A G G G A G A G A G G A G G C A G G A G G G C C G G G G A G G G A A A AGGAGAGGGAGGGGAGAGAAGAGAACCGGAAGGAAAAAAGGG G G G G G G G G G G G G G G G A A A A C C C C A A G G A G G G G G C C G A A C G G G G G G GACCCCAAAAAAGGAACAGGACAAGAGGGGBAAAGGGGG GACAAGGAAGGAACCGGAAAACCGAGGCCGAAACAAGGAATA GA $\operatorname{G} G A G G C C G G G G C C C C G G G A G G A G C C A A G A A A A A C C A G G G G$ G G GAAAAAAAGGAAGGAGGAAGAAAAACCGAAAGAAGAAGGG G GAGAAGACGAAAGGAAGGGGAGAAGAAAAGGAACGAAAAAG G G G G A A G A C G A G G G A G G A G A A G G G G A A C C G A G G G G G G A G A A $G$ G G G G A A C A C G G G G A A C C G G G G G G G G GAGAAC GAAC G G GAAA A A GAGAAAACGGACACGGGGAAGGGGGGCCGGCCGAAAGAAGC C G A A C A A A A A G GAGAACAGAGACGAGGGAACGGGA GAAAGEC AACAGAGGAGAGGAGGGAAAGCCGGAAAGAAAAGGGGGAGGG A A A G G A G G G G A G G A G G A T T A G A GAGAAGGAAAGGAGGCAAA G



 A G GAGGGGGAAAGCACCAAAAAGCCAAGGGGACAGAAAAAGC C GAGGAAGGCCAAAAACGAGGAAAAGGGGGAAGGGAAGAGGG GCCATA GAAGGAAAAAAGGAAAAGGCCAAGGAAAACCAACAG $G G A A C G G A G A A A A A A G A G G G G A A A A A A G G A A A A G G G G C A G G A$ A A A C A A A G G A A A A G G C C G G G G A A C C A A G G A A G G A A A A G G A A A A G G G GAAGGGGAAAACCCCGGGGGGAAGGGGAAGGGAAAAAG $A C C A A G G A G A A A A A G C C G G A A A C G G G A G G A A A G G G G G A A A A A$ GAGAGGGGAGGAAGGGGACAGAAAGAGAAGAAAGAGAGAGAB G G G A A G G G G G A G A A C G A A G G A G G G G A A G G G G G G G G A C A A G G A CAAGGGAGGGGAACCGGAAAAGGAGAGGGGGAAAACCGAAAG A A A A A A A A A A A GAGGCCGGAAAGAGGGAAAGGA GAG GTAGA G GA $A$ A $G A A G G G G G A C C A A A G A G A G G G A A A A G G G G G G G G A G G G G$ $G G G C A A G A A G G A A G A A A G A G G A G G A A A A A A A A G G G G A G A A A G$ A A G G A G G A G A G G G G C G A GAGAGGGAGGAGGGCAGAAAGGGGC $G G G A A A A A A G G A A A A A G G G G G A A C C G G A G A A G G G A C C G G G G A$ A A CA $A \operatorname{GG} \operatorname{GA} A C A G A G A G G G G G G C A A G A G A G G G A A A A G G G A C A A$ AGGAGGAGGCCAGGAAAGAGGGAGAAGGAAAGGGGGGCAAAA A G G G G A A A A A A A A G GAA $A \operatorname{AGGGAAAAACAAGAGGGGGABAAAC}$ C G G G G G G G GAAACACAGCCGGCAAAGGAAGGCCAGAAA GAGG G G G C G A G C C G G A G A A G G G G A A G G A A G A A G G G G G G A A G A A G A A $A G A G G G G G G G G G G G G A A G G G G A G A G A G G G G G G A A G A G A A G G G$ G G GAACAAAAAAAGGAAGGGGAAGGAAAGGGCCAAAGAGAAG G G GAAA ACCGGGGCAAAGGGAGGCCGGAAAGGAAGGAGGAGA G G A A A G A A A A G G GAGGGGGGGAAAAAACCCAGGAAAAAAGAA GAGAAGGGGAGGGAAGGCCCCAAAAAAAAAAGAAGCCAAACB A A A A A G G A A A G G GAGC C GAGGGGACGGGGGGGGGGAAAAGGG G GAAGCCGCAAGAATAGAAGGCCAAAAAAAGGGAAAAAAAAA A GAAGGGGGAAGGGGACGCGGAACCGGAACACAAGAAAGAAA GAAGAAGGGCCGGAAGGCCGGCCGGCAAAGAGGAAAAAAGGC CAAGGAAAAGGCCGGAAGAGGCCAAGGGGGGAAAGEAGAAGA A G G A $\mathcal{A} G \operatorname{G} A C G G G A G G G G G G G G G G G G A A A G G C G A A G A G C C G G G$ G G G A G A G A G A G A A A G A A A A G G A G A GAC G G G G G G G GACCCCC C $C G A G G C C A C C C A A A A G A C G C A C A A A G A A A G G G G A A A A A G G G G$
$G C C A A A C G G C C G G A A G G A A G G A C G G G A G G G A G G C C A G G G G G A$ C T TA T GAGGAAAAGGACAAAAGAGAAAAAGGAAAAAAGAGGA GAAAAAACACCGGAGCCGGGAAAAAAAGGGGAGAGAGGAABAA
 A G G G G A A GACAAAGGGGGAAGAAGGGGAAAAACGGAACAGAT A ACGGGGAAGAGGAAAAGAGGGGAAGGAAAAAAGAAAAAAAG G G G G A T TCCAGAAAAGAAAAACCACGAGGGGAGGGAAAAAAA C G GAA A A A C G GACCAAGGGAAAAGGTTACGAGGAAGAAAAAA $G C A G A G A A C G G A G G G C C A G A A A A A A A A A G A G G G G G G G G G G G A$ AGGCCAGCCAGGAAGGGACGAGGGAGGCCACAGAACAGGAAG GAGAAGCAGAAAGAAAAAAGGCCAAGGAAGAAAGAAAGAGAA $A G A G G A G G G G G A G A A G G G A A A G G G A A G G A G A C C A A A A G G G G G$ $A G G G G G G G A G G G G G G A A G G C C A A G G G G A A G G A A G G G G G G C A A$ A G GAA A G A A $\mathcal{A} G A A G G G G G G C C G G A A G G A A G G G G G G G G A G G A A$ A G G G G A A G G A A A A G GAA A G G G G G G GAAAAATAGGGAACAAAA A G GAAAAAAAAGGAACCAAAAGGGGAAGGGGCAAACCGGGGA CAGGGGGTTAAAAAAGGAGCCGACCAAGGCAAAAAGGACAAG A A TAA A G G GAATTAACCGGACAAAAAGGGGGAGAGAGAAAAG AAAGGGGGGGGAAAAAAAAAGGGAAAACAAGAAAGGGAAGAG A A GACGGGGCCAGGGGAAAGAGGAACCGGAAGGGGAAGAAAC $C G G A A A G A G G A G A A G G G G G A A A G A C G G A G A G G G G G A A G G A A A$ A GAAAGGGGAGCCGGAAGAAGCCGGAACCGGGGAAAAAGGGA $A G A G A A G G G A A G G G A A G A A G G G G G A G G G G G A G G A A A A G A A G G$ G GAAAGGCCAAAAAAAAGGGGAAGGCCAAAAAACCAGAAGGG G G G A $\mathcal{G} G G G G G G A A C A G G G G G G A G G G A G G G A C A G C C A G A A C A A$ G GAGGCCAAAACCCGGGAGGGGGGGCCAAGACAGGGGGAAAA A G GAGGAGGGGAGGGAACCACAACAAGGGGGAAGGAAAAAAC C GACA $A \operatorname{AAACAGAAGAGGGGCCGGGGAAGGGAGAAGGGAAAA} G$ GAGGGGGGCGGGGGGGGGAGGAAGGAAGGACAAGGAGACAGG GAAGGGAGACCGGAAAAAAAAAAGGAGGAGGACGGGGAAAAA G G G G GCAGAGGAAAAAGTACCCCAAGGAAGAGAAGGAAAAAA G GAACGGAACCAAAACGAAAACCAAGAAAGAGGAAAAAAAAG GAAAGAAAAGGAAAAGGGGAAGGGAGGAAGGGGAACACAAAC AAGCCAAAAGGGGAAAGGAGAGGGGAGAAGAGGCCAAGACCA ACCGGCAACAAAAGGAAGGAAGGAGAGCCGGGGAAGGGGGGC C G G A A A A G GA GAGAGAAAGGAAGGAAGGGAAACAGACGAAGAG G G G GAGAAAGAGGGGGGAGAGCCGGGGACGGGAAGGAAAAGA GAAAGAGGGGGAAAGAAAAGGGGGAGGGGAACCAGAGAAAGA C G GAA $A \operatorname{GG} \operatorname{GA} A G A A A A G G A A G A A A A A A A G A C C G A A A A G A C C B G$ GCCGACAAAAGGGGGGGAGAAAGGGAAGGCAAGACAGAGAAA GAGAAGGAGAAAAAAGAGAAAACAGCCAACCCAAAGGACGGC CA $\operatorname{G} G A A A A A A G G G G G G G A G G A A G G A A G G G G G G A G A A A A G G G G G$ GAAAAAAGGAAGGCCAAGGAAAAGGGGGGAAGGGGAAGGGGG GAAGAAAGGAAAAAAAAAAGGGGAAAAAAAAGGGGAAABAAG GAAGGAAGGGGAAGGGGGGAAGGAAGGAAGGAAAAAAAAAAC CAAGGGGAAGGGGGGGGCCAAAAAACCAACCGGGGGG
AAGGGGAAAAAAAAAAAAGGAAAAGGGGCCAACCAAAAGGA AAACCAAGGGGAAAAGGAACCAAGGGGGGCCGGAAAAGGGGA A G GAA A GCCGGAAAAAAGGGGGGGGGGGGAACCAAAAAAGBA AAAGGAAGGGGAAAAAAAAGGAAGGGGAAAAAAGGAAAAGGC C G GAA A G G GCCCCAAAAGGCCGGGGAAAACCGGAAGGAAGGG G G GAAAAGGAAAACCGGGGGGGGAAAACCGGGGGGAAAACAG GAAGGGGAAAACCGGGGAAAAAAGGAAAAAAAAGGGGAAGAA $A C C G G G G G G A A A A A A A A G G A A A A A A G G G G G A A A G G T T G G G G G$ G GAGGAAGGGGCAACGGAAGGGGGGAAAAAGAAAAGGCAAAA GAGGACCAAGCGAGAGGGGGGAGCCGGGGCCCCAGAAGAAAG GAA $A \operatorname{G} A \operatorname{A} A A G G G G A A G G A T G A G G G G G G A A A G A A G A A G G G G G T$ $T G G G G A A A A G G G G G A G G G G A G A A A A A G G G A A G A A G G A G G G G A$ $A C C G G A A G G A A A G G A G G A G G G A A A A A G A A A C G C A A G G A G G G A$

G G GCCGGAAGGGGAGCCGGCCAGAGAAGGGGAAAAAAGGGGA $A C C A G A A A A G A A G A C G G A C A A G C A G G G A A A A G G G G G A G G G A G$ AA $A$ A $\operatorname{A} A G A A C C G G G G A G A A G G A A A A G G G G A G G A G A A G A A C A A$ G G GAA A A CAGGAAGGGGAGAGAGGAGAGGAGGAGGGAAATAA GAGAGCAGGAAGGACGGGAAGAGGGCAAACCGGGGAAGGGGA G G G G G C A A G G A A A A A A A A A G G G G A A A A A C A A G GA GA G CA G A A
 GGGAACCGGAAGGAGGGGGAAAGGGAGAAAGAGGGGGGAAAA A A A A A A A A A G G G G A G A G A G A A G G G G G GAACCGGAGGAGAACA A GAGGAAGGGGAAAGAAAGAAGGGGAAAAGGGGAAAAAAGGG G G G A A G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G A A G G G G C C A A G G C A A A G G G$ G G G C A G G A A A G A A G C G G A A A A A G A A A G G G A CA $\operatorname{A} A A A G A G G G G G$ G G G G GCCGGCCAGAGAAGGAAGAAAGGAAAAGAGGCCGAATC C G G A A G G G G A A A A A A A A A G C A A A A A T TAA A A G G A G G G G G G G C C T TC CA C G A A GAGGAAGAGGAGAAACCGAAAGACAAGGGGAA A A A A A A A GAGGACAGAGGAACAGGAGGGGGGCCAAGGGGGGG G G G A A G G A A A G CAA A A G G GAA $A \operatorname{AGGAAGAGGGAAAAAACCCAA}$ $A C C C C G G G G G G G G G G A A A G G A C C A G G A A A G G A A C A A G G A G G G$
 A A A A G GACCAAAGAAAGAAGGGGAGCAACGGGGCGAACCCCG A ACAAAAAACAAACACAGAGGAGGGAAAAAAAGGAAGGGCCA
 G GAAAGGAAAAAGGGAAAAAAAAGGAGGGGGGACCAAGGGGA GAGAAGGCAAAAGAAAAAAAAAAAGGGGGACAGGAGGGAACB $G C C A A A A A G A A C C C X A G G G C C A C G A T A A G G A C A G A A C G A A A G$ G G GAGGGGAAGAGGGGGCCAGAAAAGGACGAACACGAAGAGG G G G G G A A A A A A A A G GCCC C G G G G G G G G GA GA $\operatorname{CA} A A A G G G G G A G$ A GAAA AAACAACCAAGGAAGGGGAAGGAGAAAAAAAGAAAAG $A G G G A G G A A G G G G G G A G A A C C G G G G C C A A G G A A A A A G A G G A G$ $A C C G A G G A A A C G A A G A A G A C C G G A A A A G A A A G G G G G G G A A A G$ GAAAAAAAAGGCCAAGGGGGGAAGGAACCGGGGAAGGGAAGG A G GAA A GAAAAAGGAGGGGAGGAAAGGGGGAGGAAGAAAGGG
 G GACCAAGGAGAAAAAAGGGAAAAAGGCCGGAAGAAACGGGC A A G G A G G A A G GCCAACCACAAAAGGGGGGAAGAAAGGGAGAA GAAAAGGAAGGGGGGAAAGAGGGAAGGAAAAGGCCGGAGAAG G G G A A G G G G A A A A G A GAAAGGGGGGAGAGAGAGTTAAAAACA CAAACGGGGAGACAAGGAGAAGGAAGAAGGACAAAGAAAGGG A A GAGAGCGAAAAAAAAAAGGGGAAAGGGGAGGGGACAACAG G G G G G A G A C G A G GACAAAACAGGAAGGGACAAAAGGGAAAA G G G G GAGGGGACAAAAAGGGGGAAAAAGCAAGACAGACCCCCB G G G G G G G G G G G A G A A A A $\mathcal{A} G G G G A G G A A G G G G G G B A A G G G C G A$ A A G GACCAGAAAAGGAAAGGATTCACAGAGGGGGGAGGGGGG GAAAGGAGGAACCGAGGGGAAAAGGAAGGAAAAGATTCAAAA G G G G A A C G A A C TA G G G A A A A G G GCCAAAACCGAGGCCAAGGA $G C A A G A A G G G G G A G G A G A C G G G G G G G G A A A A A A A A C C A G C A A$ A G A A G G G G G A A A G G G G G G G A G G A A A A A A A A GACAA G G CAAA A G G GAAA A A A G G G G G G T T C C C C A A A G G GAAGGGGACCCCAAC G AAGAGCAGGGAGGACAACAAAAGAGTTGGGGAAGGGAAAAAA CA $A \subset C G G G A C C G G A A G G A G G A G G A G G G A A A G A A A G G G G A A G A$ GAGCCCCAGAAAAGGGGAGGGAACCCAAGAGAAAAAGCCGAG G G G G G GCGGAGAAGAACGACCGACCAGAGGAGCAAAGCAAGAG G G G G G A G C G A G G A A A G G G A A A G G G G C A A G G GAAA A A A G A C A A G G GAGAGCAAACAGGAAGAGGAAAAGGTTCCGGGGCCCCGGA $A G G G G A A A A G G G G G G A C A A A A G A A A G A A A G G C C A A G G A A G G G$ AAAGGGGGGAGGGGGGAAAGAAAAACAAGGGAAAGAAAAAAC GACGGAAAGGGGGGGAGAAGGAGGGGGGAGGAAAAAAGAAGB A A A G A G G G G A A A A A G G A A G GGCCACAAGGGGCCCAAAAA A A C CAAGGGGGAAAAAGGGGGGCAAAAAAAGGAAGGGAGGGGGGG

AGACCGAGGAGAAGGAGCCGAAAGGGAGGAAGGCAACGAGGA
 A GAGGGGAAAAGGAGGGGGAGAAACAGAACAAAAAGGATAAG A GAAGGGAGACACGGAAAAAAAGAAAAGAAGGAAGAAAAAAA A GAA $\operatorname{A} A \mathrm{~A}$ AACAAAAAAGAAAAGACCGAGAGGCCGAAAGAGAA $G C C A A C C G G G G G G G G C G G G A A A A A A G G G G G G A A A C G A G A C C A$
 G G G A A G G G GAA $A \operatorname{G} G A A A A G G A A G G G G G G G G G G G G A A A A A A G G C$ C A A G G A A G G A A A A A A G G A A C C G G A A G GAA G GAA G GAAAAAAC $C \subset C G G A A A A G G A A A A G G G G A A A A A A C C G G G G C C A A A A A A G G A$
 C G G G G A A G GCCGGGGCCGGAAAAAACCAAAAGGGGGGGGCC G G G G G G A A A A A A G G A A A A A A A A G G G GAA $A$ G A A G GAA G GAAAAA A G G G G A A C C A A G G G G G G A A G G G G G G G G A A G G G G G G A A A A A A GAAAAAAGGGGAAAAAAGGAAGGAAAAGGGGAAAAAAGGGGA A G G G G G G G G G G G G G GAA $A G G G G A A A A A A A A G G C C G G A A A A A A G$ G G G A A A A G G G G G G A A G G G GCC G G G GAAAAACCGGAAG GAAA G C CAAAAGGAAGGAAGGAAAGGGGAAGGAAAGAGGAAAAGGGGG G G G A A A G G A C CA $A G G C C A A G G G A T A A G G G G G G A G G G A G G G G G$ GACCAAAGGAGAGCCGAGAACAGAAGGAAAGAAAAAGGGCCG A GAGGAAAAAAGGGGAAACAGGAGGGAGGGGGGAGGGCAAAA GCCGAAGGGAGGGAAAAAAGGAAAAGGAGGGAAAAGAGGGGC C G GCCGAGGAGAAAGAAGGGGAACCGACGAAAGGGGCAAAAA GAAA A A A G G T T A GAGCCAACAACGGAGAAAAGGAA GGGGGGG GGGAAAACCGGGGAAAAGGAACCAAGGAAGGAAGAAGGACAA GAGAAA $A$ A $A \operatorname{G} G \operatorname{A} G A A G A A T A G A A G A A A G A A A T A A G A G G G A G A$
 TCCAAGGAGACAAAGACAGGGGAGGGGAAGGGGAAAAAAGAG A GAA A GAAAAGAAGGCCAAGGGACCGGGGGGAAAAAAAAAAG GAAAAAGAGGGAAGAGGGGGGGAAAAAAACCGGAGCCGGGGA A GACCGGAGAAAAAAAGGGGGCGGGACAGACGGCAAAAAGGG G GAGAGAGAAAGGGGGAAGAGAGGAAAAAGGAGAGAGGGGGG GAAGGGGAAGGCAAAAACAAGGGGGAAAACCGGAAAACAGGG G G G G G A GAGGGGGGACCGAGAAACCAAGGAAGAAGGAAAA GA CAAAGAAACGGCCAAAAGGGGAGGGGGAGCAGAGGAGAGGGG G G G A A G G A A A A CCCCA G GAGAGGAAAAAAAAGGAACCAATTG G G G G G GACAAAGAGGCCAGGGCCAAAAAAGAAGGGCAGAAAA A G G G G A G G GAA $A \operatorname{GGGGGGGAA} G G A G G C G G G G C A G A G A C A A G C$ ACAAAGGGGAAGGGAGAAAGGAGGGAAAGGGCACCACAAGAA
 A G G A G G G A G G A GAA $A \operatorname{TGGGGGGAGAGATGGCCAAAAGGGGGGC}$ C G G A G G G A A A A A A A A A A A A C C G G C CAAAAAAG GAAAAAAA G G AGGAAGGAGGAAGGGGACCAAAAAAAAGGGGAGGGGGGGGGA A G G G G GAAA $A \operatorname{A} G \mathrm{G} A A A C \subset A A G G G A G G A G G G A A G G G A G G G A G A A$ G GAGGCCAAGGGAAAAAGGACAGAAAAAAGGAACCAAA GGGC C G G G A G G C C A A A G C C G G G G G G G C A A G G G A G G A C G G C C
A A A A G GAGAAGAAGGGAGGGCCAAGGAAAGACGGGAGGGGA CAGAGAGCCAGAAGGGAGGAGGAGGGAGGAGGGGAGAAAGAG GAACCGAGGAAGGGGGGAGAGAGGGAGAGGAGGAAGAAAAAA A A A G A C C A A GAGGGGGGAGAGGAAGGAAGAAGGACAAGACAG GAGAGGGCCAAGGAAGGCAAACAAAAGAGGAGGAACAACAGG GAAGGAAAAAAGGAAAAAAGGCAGGGAGGGACCGAGAAAGGA G G G A A A G A GCCGAGGAAGGAGAGAAAAACGGGGCGAAAAAGA G G G G GAA $\operatorname{G}$ GAAGGGGAAACAAGAGGAAGAAAAAAAGAAAGGA G G G A A G G G GAA $A \operatorname{G} G \mathrm{G} A A A \operatorname{A} A A G G G G G G A A A G G G G G A A A A C C T$ AAACCAAACAAGGGAGGCCAAAGGGAAAAGGGGGGCAGAAGA GAAGGGGGGCCGAAAGAGGGAAACCAAGGGGGGGGAGCCGGA G A G G G A A G G G G A G G G A A GAA $A \operatorname{GGGC} C A A A A A A C A A G G A A A G G A$ $G C C A G A G G G G G A G G A A G C A G G G G G G A A A A G A G G G A G G G G G G A$

AGGAAGGAACCAGGGAAGGGGGGAAGGCCAAAACCACGAGGA AAGGGGGAGAAAGAGGAAAAGAAAAAGAGAAAGCACCCAAAA C G GAAAGGGAGGGAGACCAAAAAGAGGAGCAGAAAACACAA G G G GAAACGGGAAAAGGGAGGACAGAGAAGGGAGGGAGAGAAA GAACCGGAAGGGGAAGGGGAGAGGGAGGAGGAGGGGGA$G C A A$ GAAAAGAAGAGGAGGCCGGGGGGGGAAGGAGAAAAAGGGGGG
 GAAAAGGGGGAGAACCCGGAAGACACCAACAGGGGGAGAAAG A A A G G A A A G A A G G G G G A C A G A A A G G G G A T T T G G G G G G A G G C A AGGAAAACCAAGAGAACGGCCGGAAAGAACCAAGGAAGGGGA A A A A A A A A A G G A A A C G G G G GAGGGACCAGCC GAAA G G G G G GAA GACGGAAGGAAAAAAACGAACAAAAAAAAGGGGGGAAAAGBT TGGAACCAAGGGAGAGAAGCACCGGGGGAAGAAAACCGAGGA A A A G A G G G GAGGAGGAAC C G GAACGAGAAAAAGGGGGGA G G GA A A A A A A A A A GACAGAGGACTAAAAGGAGAAACCGGAAGAAGA GCCAGGGGGAAAAAAAGAGACAAGGAGCAAACCCCGGAAAGA A G GAAAAAAAAGAAGCAGACCAAAAGGGGGGGGCCGGGGTTA A G G G G G G A G C C G G A A A G G G A G C A T T G A A C G G G A G G G G G G G G A A GAGAGGAAGGAACCGAAGCCGAGGACGAAGAAGAGGCCGAG G G G G A G G A A C C G A A G G G A A G G A A G A G G A A G GA G A A G G A A G G G GAAAAGACCAGGAGAAGGGCCGGAGAAGGAGAAAAAAGAGGA AAGAGACCCGGGAAGGAAGAACCGGAAAAAAACGCGAAAAAG GAAGAAACAGAAAAAGAAAAAGAAAGAAGGGAGGGAAAAGGG GAAACAGGAAGAAAAGACGAAGACCAAGGAGGAGGGAGAAAA ACAAGAAGGAAAGGGAAAGAAACAGAAAAGCAAGGAGGAAAA A G G G G A A A A G GAA A G G GAA A G GAGGAGAAGGGGGCGAAAAAG AAAGAGGAAGGAACCGGGGGGGGAAAAAAGGAAGGAAAAGAA
 C G GCAGCGACCGGAGAAAAAGCGGGCCAAAAGGAAAAGGGGA $G C C A C G A C C A A G A A A A A G G G G A A G A G G G G G G G G C C A A G G G G A$ A GAGGCCGGAGGAGAAGAGACACAAGAGGGGAAGGGGACAAAA A GAGGAAAAGGGGAAAAAAGAGAGGACAGGGAAAAGAAGAAC ACAAAAGGGAGAAAAGGCCGGAGGGAGGGGGGGGAGCACACA G GAGCAGGGAGAGAAAGGGCCCACCAGACAAGGGGGAAAGEG GAAGGAGAAAGGAAAAAAAAAAACCAAAAAAAAA GAGAAAAG A A A A G A A G A G G G G G GAAAGGACCCAGGGGGGCCAAAACAAAG GCCGGGGGGGACAAGGACCAAGGCCAAAGAAAGGGGAAAAAG GAAGGAAGGAAGGGGAGGGAGCCGGGGGGCCAAAAAAAAGGG G G A A A G A A G A A A A A TAAAGGGGAAGAAGAATCAGAAA GAACA A A A G A A A G GAACCAACCTTAAAGAAGGCAAAAAAAGGAACC G GGGGGCCTTGGAAAAAAACGCACGAAGAAAGAACAAAAGGGT TAACCAACCAAAACAGGAGAGAAAGGGGGCAGGAGGAAAGBA AAAAAAGGGAAGAAGAGACAGGAAGGGAGGAGAAAAGCAAGC CAAGGGGCAGGGGGGCCAGGACCGGGAAAAACCAAGGAAAAA AGGTAAAGAGACACCAAAAAAAAAGGAGGAAAACCAAGAAGA A G G A A A A A A G A CAAACAAACAAGCCGGGAAGGAATAAAAA GA A A A A A G G G GAA $A$ A A G G GAGGGGCCCCGGCGAGAGGGCAAACX G G G G G GCCAAAAGGGAAAAAGGGGGGAGACACGAGGGACCGGG
 GAAGACAGACCGAACGGGGCAGAAGGATTAAGAAAGAGGGGA A A G G G G GCCACGGGGGGGGAAAAAAAGAAAAAGAAAAGGGGA A G G G A A A G GACGGAAAAGGAAAGAAAAAGGAAAAAAGAAA GAG $G C \subset A G A A G G A A G A A A G G G A A G G A A A G G C C A A G G A A A G A A G G G$ GAAAAAAAGGAAGGGAACCAAGGAAAAGGAAGGAAAAGAAAA ACAGAGAAGAGAACCCCGGAGGGACGGAGGGAAAAGGCAAAG GAAGGGGGAGGACAGGGCACCCAACGGGGAAAGGAAGGAABA C GAG GAAA A GACCAAAATTAAGGGGGGAAGGGGGGCCGGGGA A A A A A A A A A G G A A C C G G G GCC G G G G GGAAGGAAAAAAGAAAA AGGAAAAAAGGAAAAAAAAAAAAGGAAGGGGAAAAAAGAAAA

AGGAACCGGGGCCGGGGCCAAAAGGGGCCAAGGCCAAGGGGA $A C C A A G G A A A A G G A A G G A A G G G G A A G G T T C C G A G G G A A A C A A$ A A A A A A A G GAGAAAAGACCAAGGGGAACAGACCGGGGGAAAAA A G G G G GACCAACCGGGGGGGGGGGGGAGAAACCCCAAGAAAA
 GAGCC GAGGGGAAGGCCAAAACGGAAAACGGGACCAAGGGGG G G GCCGAAAAACCCCGGAACCAAGGGGAAGGGGGGGGGAAAG GGGAAAAAACCGGAAAAGGAAAAGGCCGGCCGGGGGGGGGGA A G G A A G G A A G G A A A A A A G G G G A A A A A A A A G G G G G GAAAAAA $A$ CAAAAAAAAGGAAAAAAAAGGAAGGAAAAGGGGGGAAGGGGG GAA A G A A A A A A G G G G G G A A G GAA $A \operatorname{AGC} C G G G G G G G G A A A A A A A$ A G GAA A G G GAACCGGAAGGCCAAGGGGCCGGGGAAAAGAAAG G G G G G A A G G A A A A G GAAAACCAAGGAACAAAGGAGCCACA GA A A C A A G GCAAAGGCCAGCCAAGGGAAGGGACGAGGAAGGGGA GCCAAAGGGAGGAAACAGGAGAGGGGGGAAAGGCCGAAAAGA A A A G GAAAGCAGAGGAAGGAGAAAAGGGGACAAGGAACAGGA ACACCCCTTACCCCCGAGAGAAAAGCAGAAGGAGGGGACAAA G G GCAG GAAAAGGAGGGCCAAGGGGGGAAGGCCGAGAAAAAC CAAGGAAGGGGCCAAAAAAAAGGAAAAAAGGAAGATTAAAGG G G G A A G A G A A G A G A A G G A A A A A G G A A A A A G G G G C C A A G A G G C $A C C A G G G A A A A G G G G A A G G G G A G G A G A A A G A A A G G G A A A G G A$ GAGAAGGGGGGAAGGGGACGGGGAAAAAAGGCACCGGCAAAG G G G G G A A G GAAAAGAAAGAGGAAAGCCAGGGGGCCCAAGAAG G GAAGGGAAGGCCGGGAGGAGAGGACAGAAGAGAAGAAACAA AAAGGCCAGAAGGAAGGAGGGAGGGCAAGTTGGAAAAAGAAG GAGGAGAAAAAAACCGGAAGGAACAAAGGGAGGCCAGAGAAA G G GACGGAGGAAAGACACAGGGGAGGAAGTAGAAAGAAAAAG $A C A A A C C G G G G A A A A A A G G A A A A G G A A G G G G A A G G G A G G G G G$ $G C C A A G G G G G G A A G G G A A A A G A A G G C A G A C G A A G G G G G G G G G$ AGGGGCCAAAAAAGGAAAAAAAAAAGGGGGACACAAAAAAGG A G G G G G G C G G G G G G G A G G G G G G G G G A A A A C A G A G G A A C C A A G G G G GAGCAGAGAGGCGGAAAAAAGGAAGGAAAGCCGAGGGAG ATTAAAACCCCGGGGAGGGAAGGACACGAGAAACCAAGAATA G G A G A G A G G G A A A A G G G A G A A G G A A C C A A A G G G A G G G G G G G G GAAGGATCCGGGGGGAGAAAAAAGGCCGGAAGGAAGGAGGAG G G GCCAAAAAAGGGGAGGGAAGGAGGGAGGGGAAAGAAAGAA GAAAAGGGGAGGGGGGGGGGGAAGAGGAATTCCGGGAAAGGA A G GAA A A A GCAAGAGAGGGAAAAACAGAACCAGCCAAAAGAA A GAAGAAGGCCCAGAGGAAACCCAACCTTACAACCGGGAAAG
 A A A A C A A A A A G G GCAAAAAAAAAGGAAAAAAAAAAGGGGGGA A A A A A AC G GACAATTAAAAAAAACCAAGAGGCGGGGAAAAAA A A A A ACCAACCGGAACCAAGAGAACGGAAAACCAAAAGGGGA GAACAAACAGAAAAAAAAAAGGGAAAAGAGGAAGGAAGAA GA C GAGGGGCCACAGAAGAAGGGCCAAAGGGAAGGAGGGGAAGA G G GCC G G G A A A G A G G G G A G G G G A G G A A A GAGACCAAA
G G G G GACCGAGGGGAAGGGGCCAAGGAAGGAATAACGGAGA GAAAAGGGGAAAAGGGGAAAAAGACAGGGGAGAGACCABCAG A A GAGAAAAGGGGAAGATTCCGGAAGAAGAATTGAGAGAAAC
 GCCAAGGGGCCGAGACAGAAAGGAGGAAACCAGAAGGACGGC C G G GAAAGGCCGAAAACAAAAAAAAGAAAAGGACCAACCGGC CAACCACACGGCAGGACGAGGGGAGAGGAGAACCCBACAGGG G G GCC GAAACAGGGGGAAGAGGCAACGAGATAGAGAGCAAAG GAGGGGGGGGGCCGGAAGAAGAGAAAGCAAGGGAGGGACAGC C G G G A A A A A G G GA G G A A A G G G T TA A A A A A G GAA G GA GA G C C G
 $A C C A A G G A C G G A A C A G G G A A A A A G G G G G A C C A A A G A A G A G G G$ GACAGGGGGAAAGGGGGAGGAAGGAAGGAGCGGGGCAAAAAA

AACAGAAAAGGCCAAGGAAAAAAAGGCGGAGGGAAAAGAAAA G G G G A G G G G A G A A G G A A G G A C A C A G C C C C G G G G A GC C G G G G C A G GCA $\operatorname{A} A A C A A G A G A G G G G A A G G A C G G A A A G G G G G G A A A A A A$ GAGAACCGGAGACGGAAGGAGGAGGACAGAGAAAACCAAGAC $C \subset C A A A A A A G G A A A A G G C C A G G G A G G A G A C C G G A A A G G G G A G$ A A GCC G G A A G A A A G G A A A GAGCCGGGAGAGGGACAA GA G GAG GAAGGAGACAAGGGGGAAAGAAGAGGGAAAGAAACGAAGAAA A GAGAGGAGGGAAGGAAACGGAGACAAGGAAGGGGAAAAGGG G G G A A G G A G G G G G G GAGAGGGGGCCAAACAGGGGGAGAAGAA GAGAGGGGGGGGGAAAGGAAAGAGGGGGGAACCGGGAGACGG G G GAACCAAAAGAGGCCGGGGAAGGAAGGGGAAAAGGGGGGA C A G A A G G G G G A A G A A G G G G A A G G A G A A A G G G G G G G G A A G A G G A A A G G A G A A GAGGGAAGGAAACCGGCCAAAACCAGGGAAGBA AAAGGGAAGAAAAGAAGCAAAGGTTAAGGAGGGAAAAGAAGA $C \subset C G G G G G G A A A G A G G G G G A A G G A G G G G G A G A G A A G G G G G G A$ A A G GAACAA $A \operatorname{A} G \mathrm{GA} A A G G A A A A A A G G C C A A A A A G A G G G A G G A C$ C GAA A GAGGCCAGAAAAAGAAAAGGCAAGAACAAAAAAGGGA T G G G G G G A A G G A A T TAACCGGGGAAACAAAAGGGAAGAAGAA $A C A G G A G G G A A A G A G G A G G C C C C A G A G C A G A C A C A G A G A G A A$ GACGGAAAACCCCGGAAAACAGGCATTAAAGCCAAAGACAGA
 GACCCAGAACCGGGAGGAAAAAAGGGGAAAACCAGGGGAGGG G G G A A G G G GAGGAAGAAGAAAAAGAAACCAAAAGGGAAAAGAC A GAG $A \operatorname{GA} A G A G A G A A A G G G G A A A A G G G G G G G A A A G G G A G A G A A$ AGGTTAAGGAAAAGGAAGGAAGGAAAGAAGGGGAAAAAGAGA A A A A A A A GACCACAGAAAAAAGAAGCCACAGGAGAAAAAAAG GAAAAGAAAGAGGAAGGAGGAGAAAAGAGGGAAAAGGGGCCA G G G G A A A A A A A G G G G A A A A G G G G G A GAGGGGCC G G C C G G G A C ATTTTGGAGCCACCAAAAACCAGGGCAGGCCGGGGGACCAAA AGAGGGGGGACGGAACCAACCAGGAGGGAGAGAAAAACACAA G G GCCACGACCGAGGAAAAAAAAAAAAGGGGGGGGAAAAAAG $G C C A A G G G G G G A A G G G G A A A A C C G G G G A A A A G G A A A A A A G G G$ GAAGGAAAACCAAAAGGAAGGGGGGAAGGAAAAGGGAACCCG AGGAGCAGACCGGACAAAGAAGGAAAAAAAAAAAAGGAAAGG GAGAAAGGAGGGGAAGACCCGAAGGGGAAGGAAAGAAAAAAG
 A G G GAA A AACACCAATACAGGCAGAAAGAAACATTGGGGAAG A G G G G GAGGAAAAGAGAAAGGCCGGCCAGGGACAAACAACAAA A A A A A G G A A A G G G A A G G A G G A G G A G G G A A T T G GACCACAAAA
 AAAGGAAGGAAGGAGGCAAGGCCCCAACCGGGGAGAAAAGGG GCCAAA GAAGGAGAAAAAACCAGCCAGAAGAGAAAGAAAAAG ATTAAAGAGCAGGCCGAAAAAGGCCAAAGAAAGGGGAGCCCG G T TAA $A \operatorname{GA} A A A A G A C G G A G G G C G G G A A A G G G A C G A A A G A G G A$ A A A A A A G A GAA $A \operatorname{G}$ GAAAAAAAAGAGAAAGAAGGGCCAGAAGGC
 GAAGAAACCGGAAAAAACAAGAGAGGGAGGGCGAGGGCCCCA A G G GAA A ACCCAAGGGGAAAAAAAAAAAGAAGGAAAGGGGAG GAAAAGAGGGAAAAGAAAAAGATAGGGAAAAGGAAAAGGGGA
 A G G G A A A A C G GCCAAAACCCCCCGGCCCCGGCCGAGGAAGGG AAACCGGAAGGAAAAAGAGGGAAAGAGAGAAAGAGAAACA GA A G G G G A A A A A G A C A A G A A A G G A A G A A G A A A G G G G G G G A G G A $G$
 G GAGGAAAACGAGAGGGAGGGAAGGGGAAGGGAAGAAAAAAG GAGGAGGACCGGGAGAGAGGGACAGGGGGAAAAAACCTXAAG
 GAAGGGGGGAAAAGGAGATAAAGAAGGAACAAAGGGAABACBG G GAGGAAAAAGGGGGGAGGGGAAGGGGAAGACCGAAGGGGGG

G G GAA A G G G GAAAGGGAGAGAAGGGAGGGAAAAAAAAGGCCG G G A G G GAA $A$ A A A A A G G G A A A G G G G A A G G A A G G C C G G G G A G G G G G G G A A G G G GAA $A \operatorname{AAGGA} G G G A A G A G A G G G G A A A A C C A A G G G G G$ G G G G G A A G G G G A G A GAAAA A GAGAAAGAAGGAAAG GAAGGGG GAAAAAAGGAAAAAAGAGGGAAACCAGAAAAGGGACAAAAAA $C G G G G G G G A G G G G C C G A G A A A G G G G A A G G G G G G A A C C A A A G G$
 AGGAAGGAAGGAAGGAAGAAGAAGGTAAGACAGCCAAGGGGA A A A A A A A G G G G GAA A G A A G GACCGGAACCGGAAGGAGA GAA G GAGGGAAGAAGCCGAGAGGAAGGGAGAGGGAGAAACCTTGAA G GAAAAAACGGGGAGGGGAGAACAAAGGGGGAAAGAACAAAA CAAAACGAAGAAGGGAGGGGGAAGGGGCAAGGAAAAAGGGGA A A A A G GA G A CAAAGGAAAGGGAGGAAGGGACGCGCACCACAA $A C C A A G A G G A A A A A G A G C C G G A A A C A A G G A A A G G G G G G A A G A$ $A T T G G G G G A G G A A G G G G A G A G A G A C A C G G G A G G A A C C G G G G G$ AACAGAGGAAGCCGAGGAACCGGAAAAAGAAACAAAAGGCCG
 CAAAAGAATAAGGAGGGAAAAAGAAAAGGAAGGAACAAAAAA AAAGGAAGGAGAAAAGGGGCCAAAAACGAGAACGAAGCAAGA A A G G G A A G G A G G A A G G G A A A A A G G A G G G G A A C C A A G G G A A G A $A T T C C G G A A G A G G G G G G G G G G A A G G G A G A A G A G A A G G G G G G A$ C GAACGGGGAAAGAGAAAAGAAGGGGGAGAGAGAAAAACGGG A G G A G A A A A G G G G G G GACAACAGAGGGAGAGAAGGAAA GCCG G G GAGGGAACAGAGGAAAAGGAACCAGAAGGAAAAGAAAAAA GAACCAGGGAGGAAAGGAAAACCAAGAAAGAAGGGAAGACAA A A G GAAAAAGGAAAACCGGGGACGGGGAAGGGACGGGACGGG G G G GAGGAGAGAAGGAGGGAGGGAACCCCGGAAAAAAAAGAA GAAGGCAAAAGGGAAGGAGGAGAAGACAGGAGAAGAGAGAAA G GAA A G G G GAGGGAAAAGAAAGGAAAGGGCCGGGGAACAAAAA AAAGGAAGGCAAGAAAGAAGGCCAAAAGGGGCCAACCGAAAG A GAACGGCCCCGGAAGAAGAGGGAAGAGAAGGAGAAGAAAAA AGGAAACCCGGAGGACAAAGGCAGGGGCCAAGGCCCAAAGGG GAAAAGGGGAACCAAGGGGAAAAAAAAGGATAGAAAGAAAAA G G G G G G G A A G G A A $\mathcal{A} G A A G G A A G G G G G G G G G G G G G G A A A A A A A$ G G G G G G G G G G G A A A A C C C A A A A GAAGGCCAAGAGGAGCAACA GAAGAAAGGAGGAAAAAAGAAAAAAGGCAGAGGAACACAAGAG G G GAGGAGGGGCCGGAGCCGGCCGAGGAGGGGGGGAAGGGGG GCAGGGAGGCCGGAAGGAAAAGGAACCAAAAAGAGAGAAAGA GAAGAAAAAAAGGAGAAAAATAGAAAAAAAAGAGAGAAAGEG GAAAAGAGAAAAGGGCAGGAAGGGGAAGGGGAGGGAGAAAGB G G GAAGGGAAGAAGGGAAAGGGAAAAAGGAGAAAGCAAAAGA A G A C C G A A C A $\mathcal{A} G G G G G G G G G G G G G G A A A G A A G A C C B A C A G A C$ $C G G A C G G A A A G G G C C A G A A G G A A A A G A G G A A C C A A A C C A A A G$ GAAGAACGGAGGAGGAAAGGGGAGGGGGGAAGAAAGAAAAGC A G G G GCAAAAAAGAACGAGAACCGACAAGGGAAGGAGAAACB

 GAAAGAGGGGAACGAAAGGGAAGGGGGGGCCAGAGCCAGAGA AAAAGAAGGAGAGAAGAGGAGAGAACCGGAAGGGAAAGAAAA A A A A A A G A GAAAA $A \operatorname{AGGGCCGAAGAAGAGGAGAAGGGGAGAAG}$ G G G A A A A G A A A GAGGAAAGACCCGGAGAGGGAAAACCGAGAA G G G A G G G G GCAA A CAAACGGGGAAGGAGGGCCGAAAAACACAG $A G G G G A G G A A A G G G A G A G G A G G G A G G G G G G A G G G G G G A X G A G$ GAGAGGAGGAAGAGAAAAAGGGGAAAAGGAAAAGGAAAACAG G GAGACCGGGGAAAGGAGAGGGGGGGGGGAGAAGAGAAGCAC CAGGGGAAGGACCGGGGGGCCAAACAGAAGAGGAAGGCAAAG
 A A G A A A A G G G A G A A A A G A A A CAAACGGAAAAAAAA G A A G GAAAC CAGAAGGAGTTAGCCGGAGAAAGGAAAGGAACCAAAAAAGBA

G G G G G A A A A G GAGGAGGCCGGAAACGGGACAAAGGACAGCCA A G A G A A A A A G G G G G A G G G G A A A A G G A A A A GAGGACAA G GAAA $G G A G G A A G G G G G A G G G G G G A A G A G G C C G A A A A A G A A A G A A A A$ AGGCCAAAAGGAAAAAAAAGGAAAAAGGACAAGGGGGGAAAG GAGACAGGGAAAACCAGGGAAAAGAGAAGCCAAGGCACAAGAA ACACAAGGGAAAAAAAAAGAAGGTTGGAGACCCGGGGGAAAG A A A G A GAGGGGAAAGGAGGAGAAGAAAAAAAAGGCAGGAGAA $G G A G G G A C A A G A A G A A A G G C C A A G G A G G G G G A A A A A A G G C C G$ A ACCCACGCAGAACAAACAAGGAAAAAGGGGAGAAAACCGGA AGGCCAAAAAGGGGGAAAGGGGGGGGAAGGAAAGGGGGGGGG A G G A G A G A A G A A A G GAGGGGGAAAAAAAAGGGGAGAGGGTTA A A C G A A A A A A G A C G A A GAA $A \operatorname{GGGGAGAAGGAGAGCCAGAAAAG}$ $G C \subset A G G G A G A G A A A A A A G A G A G A A G C A A A C A A A A G A A A A A G G$ G G G G G GAGAAGAACCGGAAGGCCGGACAAAGAAGAAGGAAAA AAGACAAAGAGAGAAAAAAAAGGCCAGAGGAAGAGGAACAAA $G C C G A A A A C A G T T G G A A G G G G G G C C A A G G G G C C C C A A C A A G B$
 $A C A G A A G G G G G G G G G C A C A G A G G C C A G A G A A A A A A A G G B C A C$ $A C C A A A A A A A C G G A G A G A A A G A A A A A A G A A A C C G G G G G A A A A$ A A A G G G G A G A G G A G A A G A G G A C A G A A A C A G G G G G G G G A A A A $G$ A GAGAGAAGGAGAGGAGGAAAAAAGCAAAGACCAAGGGGCCG GAGGAAAAGGAAGAGGAGAGGAGAAAGGGAGGGAGGGAAAAG A G G A A G A A G A C C A A A A G G G A TAGACAAGGAACAACCCA GAAA A A GCCAGGACAAAGGCCCCGGAGCACCAACCACGGGGAAGAA A A A G A G G G G G G A A G G G G G G G G A G A TAA A G G G C A A G C A A G A G A A G G A G C A G G A A A G G G A A G G A A G A G G G G G G G G G G G G G G A A G G C A G G G G A A A A G GAGGGGGGGAAAAAAAGAGAAGGAAAAAAA AA $A C C G G C C G G A A A A C A C C A C G G A G A G T A G C A G G G G G A A A A G G G$ G G G A G A G G G G G GAAAAAAAAAAGGAGAGGAGGGGGAGAAAGAA AAAGGCCGGAAGGGGAAAAGAAGGGGGAAACGGCCGGAAAAA G G G G G C C G G A A A A A T A A A G G A G G G A A G G G A GAA A A A G A A G G G G G G G GCC $C$ G $\operatorname{CA} A G G G G A A G G G G A A G G G G A A A A G G A A A A A A G G G$ GAAAAGGGGAAAAGGAAGGGGAACCAAGGAAAAAAGGAACAG G G G A A A A A A G G A A G GAAAGAAACAAGAGGAAGGGACCGA GAA AAAGGAAGGGGAAAACCAACCGGAAAAAAGGGGAAAAAGAA G GAA $A \operatorname{G} C C G G G G G G G G G G G G G G A A G G G G G G G G G G G G C C G G G G G$ G G G G G G G A A A A C C G G G G A A G G G G A A A A G G A A G G G G C C G G G G G G G G G G A A G GC C G G G GC C G GAAC CAAAAAAAC C G G G G G G G G G G G G G G A A A A C C G G G G C C G G G G A A A A G GAA A G G G A A G G G G G G A A A A G G G GCC G GAAAAAACCGGAAAAGGAAAAGGAAAAGGAGGAA A G GAACCGAAAGGGAAGGGAGAACAGAAAGGAAGGAGAGGAA AGGCCAACCAAGGGAAAGAAAGAAAAAAAAAAACCGBAGGGA AAAGGAGAAAGGGCCAAGGGAGGGGAACCCCGGGACCGAGAG GAATTGGGCGGGGGGGAGAAAAGACAGGGAAGGAAAAAAAAA A A G G G G G A A A A GAGGAACCAGGGACAAGGGAAGAAGATXAAC CAAGGAGGGAGAAGGGAGGGGCAAGACGAAGAGGAAGGAAAA A A A A A G A CCGAAAAAAAAGAACAGGGGGGGGCAAGAGGAACA A G G A G G G C C G G G G A A G G G GC C A G G G G G G G A C G A G A C C G G G A G G G GAAAAGGCCGGGGAAGGGGAAGGCCAACCAAAAAACGGGG GAGCCAAAAAAAAAGAAGAGGGAGGAGAGACTTAAAAGAGAA $A A G G G G G A A G A G A A A G A G G A A G G G G A A C C A A G G A A G G C G G A A$ AA $\operatorname{A} G A A A A A C A G G G G G G A G A G G G A A A A A A A A A A G G G A A A A A A$ A A A A A A A A A GGCCCCAAAAAAAAAAAAAAAAGGGGAAAAGAC CAAGGGGAAAAAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAA A G GAAAACCAAGGGGAAAAGGAAGGGGGGAAGGCCAAGAAAG G G G C C A A A A G G G G C C A A G G G GCC G G G G G G C C A A A A G G G GAAC C G G A A G G A A $\mathcal{A} G G G A A G G G G G G C C G G G G G G G G A A G G G G A A A A A$
 A G G A A A A A A G G A A A A A A G G G G G G G GAAAAAGGGGGGGGAAAA G

GAACCGGAAAAAAGGGGGGCCGGGGAAGGAAGGGGAAGAAAA A A A G G A A A A A A G GAAAAGGAAGGCCGGAAAAAAGGAAAAAAG G G G G G G G A A G G A A A A G GAA A G A A G GAA $A \operatorname{AGGGAAAAAAAAAGGG}$ G G GAAAAAAGGGGGGCCAAGGAAAAAAGGGGAAAAAAAAAAG G G G G GAAGGGGGGAAAACCAAAAGGCCAAGGGGAAAAGAAAA A GACAGGAGCAGGCAAGCAAACAGAGGGAGAAGAGGAAAAAG GAACCGGAGAAGAAGAGAGGGAAGGGAAAGGGGGAGAAAGAA $A C A G A A A A A A A G A G A G G A A C A A G G G C C G G A A G G A A A A A A A G A$ G G G A A G G A A G G A A A G G A A G A A G G G G A A G G A A A A GA GAGAAA A G GAAAGGAAGGAGAAGGGACAGGCAGAAAAGACAACAAGAAA A GAAGGGCCAAGAAGGAAAGAACAGGAGGCCAGAGAGAAAAC CAAAGAACAAGAAAGAAGGGGAAGGGGAAAAGGGGAAAAGAG G G G G G A A G GAA A GAAGGAACCGGCCCCAAAAAAGGAAGAAAG GAAGGGGCCCCAAGGAAGGAAGGGGAAGGGGGGGGAAAAAAC CAAGGGGGGCCAAAACCGGGGAAGGCCAAAAAAAAAAGGGGG G GAGGAAAAGGAAGGCCAAAAGGCAGGGGGGGGAA$G G G G G G G$ A A GAAA A GAAAATAAGGAAGGAAGGGGGGAAGGAAGAAAGGG GAAAAGGGGGGAACCGGAACCAAGAAAGGAAGGGGGGAGAAA A G G G G GAGGACGAACGGAACCGGACGAAGACAGGAAAAGAAG G G G G G G G T T A G A A A C G G G G G A C C A A A A A C G G G A C C G G A G G G C AAGGGAAGGGGAAGGGGAAAAAAGGAAGAGGAAGGGGCAGAA A G G G G GACCAAAAAGAAAGGAACGAAACAACAAGGAGCAAAG GAGGAGGAGCCGGAAAGAAAAGGAGGAAGGGGGGAGAAAAAG G G A G G A A G G A G G G G G C A A A G G G G A G G G A G C C A G G GC C C C G G A A A A A A G GAA A A G GAAA A G GAAACAAGGAAAGGAGAGGGGGGAA
 CAAAGCCGGGGGAGGACGAGGCCCCGGGGAAGGGGAGAGGGG A G GAACCAGACGAGGGGGGAAAGAGGGAAGAAACCAAAAAAC A G G A A G G G G G G G G A G G G G G A A G G A G G A C C C A A A A A C A G G G G C AACAGAAGGGGGGAGCCGAAAAAAAAGAAGAGAAAAAGGGGC CAAAAAAAAGGGAGGGGAAAGAAAAAAGGAGAGGGAAAAGAG AAAAAAGGGCAACAGAAGGGGAGAAACAGGAAAAGACAAGGA AAAGAGGCACCAAAGAGACAGGAAGGGCCGGGAGGAGGGGGA AAA A GAAA A $A \operatorname{A} G \mathrm{G} A A G A G A A A G A G A A G G G A G G A A G A G G G A G G C$ A A A G G A $\mathcal{A} G G G G A G A A G G G G A G A G A A G G G G G G G G G G C A A A G A G$ GAA A A T T G G G G T T A A G G A A G GAAAAAAAGGGGAGGGGGGAA GA GAGGAAGGGGGGAAGGGGGGAAGGGGAGAGGCACAGACAGAC CACGAAAGGAACCGGAAAAGGCCGGAGAAGAAGAAAGGACCA A A A A A A A G A A A A GC C GAGGAAGGAAAAGGGGGGACAAGAGAA CAAA $A$ A A $A \operatorname{A} A G G G \operatorname{A} A A A G A A A A G A A G G A G G G G G G G A A A A A A A$ CAACAAAACAAAGAGAGAGAAGGAACCGGGGAGAGCAAAGGG
 AAAGGGGGGGAAGCCGGAGAGAGGGAAGAGAAAGGGGCAGAA A GAA GAAAACAAAAAGACCAAGAGAGAAGAACAAGAAAGAAA AAAAAGGCAAGAAGGAAAAGGAAGAGAGGCCAGACAGAGAGA T G G A A $\mathcal{A} G G G G G A A A A A G A A G G G G A A G G G G G G A A C C G G$
$A \subset A G G G A A G G A A A A A A G G G G G G G G A A A A A A G G A A A C C A A G G$ $G G A C C C C A A G G C A C C A G G A C A G G G G A A G G G G G G G G G G G G G G G$ GAGGGAGGGGGGGGGAGAACAAGAGAAAAAGAGGAGGGGGAT TAAGGAAGAGACAGACCAAGGAAAAAAGGAACCAGAAAAAAG GAAAAGAAGGGGGGAAAGAAAAAGAAGCCAAGGCCGAGAACC A GAGAGGAAAGAGAGGAAAGAAAGGGGGGGAACGAGAAAAAA $A \subset A G A A G A A A A G A G G A A A A G G G A G G G G A G A A G G G A G G C A G A A$ AATGGGAGGAAGAAGAAAAGGTAAAGGAAAAGGAAAAAAAAC C G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G G G G G G G G G G G GCC C G G G G G G G A A A A G G A A C C G GAA G G G G A A A AAAGGAAGGAAAAGAAGCCAGGAGGCAAGCCGGAGGGAAAAA
 AAGAGCAAAGGGGAAGGGACCAAAAGGGGGGAGAAGGAAAAC

CAA $A$ GAAAGGAGAAGAAAAAGGAAAAAGGGGAAACCGGAAGA A A A G GACCCGGGGAAGGAGCCAGGAAGAGAAAGGGGAAAAAG GACAGAAACGGAGGAAAAAAAAGGGAGAGAGAAGGGAAAAAA $C \subset C A G A G A G A A A A A G C A G G C \subset A A A A A A A A G G G G A A A A A G A A A$ $A C C G G A A A G G G A A A A G G G G G G A G A C A G C C G G A G G G A A G G A A A$ G G G G G A A G A A A G G G GAAGGACGGCCAAAAGGAAAAGAAAACA A A G A C G A G A G G G A A G G A G G G G G G G A C C A GAACC G G A A G G A A C C CAAACCAGCAACCAGGAAGGAACAAGGGGGACAAGGGACCB G G A A A G G A C G GCCCCCCAGAAGGGGGGAAGAAAAAAAAAAAG AGAGAAAAGAGACCAAGCCAAGGAAAGGAAGAGGGAAAAGAA A A C A A A A A A GAGGAAAAGGAAGGAAGGGGGGAAGAAAAAAAA A G G A A G G G A A A G GA $A \operatorname{GAA} A G G G A A G A G G A A A A G G G G G A A G A A A$
 A A A A A G G G A C C C C G G G G G G A A A A A A A G G G A A A G G G A A A G A G G G G GCCCCCAGGAAGGGGAAAAAACCGGAACCAAGGAAGGGGA A G GAA A G G GAAAAAAGGGGAAAAGGAAAAGGAAAAAAAAGAA AACGAGGAAACGGGGGGAAGGGAAGACGGAGAGAGAGAAAC G A A GAA A A GAAAGGGGAGGGGGAAACGGAAACGAAGGAAAAAA G G G G G A A A GAAATGAGGAAAGGAAAAGACGGCCAGAGGAAGG G G G G G G A A G A C A G A G C C A A G G T T G G G G G G G GAAAA A $A$ A A A G G A GGAAACAAGGGCCAAGACAGGGGCCAGAAACAAGAAAGGGGA A GAGGAAAAAGGGGGGAGACAAAGGGGGGGGGGAGGAAGGAA A A A A A A GAA A ACCCGGGGGGGGGAAGGAAAAAGGGAAAAGAA GAAGGCCGGAGCCAGAGAAAAAAAAGGAAGGAGGGAGGAAAG $A G G G G C A G G G G A A G G G G G G A A A C G G A A G A A G G A G G G G G G G G G$ GAA A GAGAAGGCCAAAAGGGAGAGGAAAGGGAAGGGAAAAGG A G GAA A GAAGGGGAAAACCGGTTGGACCAGGGGAAGGAAAAA $A C C A A A A A A A G A A A A A G G C A A A A A G C A A G G G G G G A A A A A A G A$ G G G A A A A G A A G A GA GAGGAGGAAGAGGGGAGAAGGAAAGACG GAAGACCGGGGAAGAAGGGCAGGAAAAAAGGGAACAACAAAC C G G A G G G A A A G GAAA A CAAAAGAAAAGGAAAGGATAAGAGCT TAAGGAAGGAAAACCACAGAGAAGGAAGGTTAAAAAACCGGA AA GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAGGGAA $A G A G A G G G G G G G A G A G A G G A A G G G G A A G G G A C A A A G G A G A A G$ GCCGGGAGGAAGGAAAAGGAGAAAAGGCAAGGAACACGAAGAG GACAGAGACAAGACCGACCGGGGAAGGAGAAACAA GGGGGGA CAGAGAAAGAAAGCAGGGGAAAAAAGGGAGAAGAAAAGGGGG GCCAACCAGGGGGACATGGAGCACACGCCAAAAGGAAAAAAA A GAA $A$ A $\operatorname{ACA} A A A A G G A A G G A A C C A G A A G G G G A T G G A A G G A G G$ G G G G A A A G GAA $A$ A A $A \operatorname{GGGAACCACAAGGCAGGAGGGCAGAGGG}$ G G G A A G G A A GAGGCAGGAAGGAACAGAGGAAGCCCGGCAAAA A A A A A G A A G G A A G G A C C GAGGGGAAGGACGGACCAGAAACAG G GACAACGAGGGGAACCAAGGAGAAAGGAAGGAGAGGGGGGC G G GAA A G G GAACAGACAAGGAAGACGCCAAGGAGAGACAAGC A A C A A G A G A A A G GCCC G G G A G G A CAGGACAAAAAA G G CAA G G A A C C A A A G G G A A G G A A G G C A G G G G G A A A A G A A GA $\mathcal{A} G G G G G C C C$ C G A C G A A A A G G A A G G G G G A A G G G A G G G A G A A G G C A G G G G G G G
 AACAACAGGCCGGGGGAGGGGGGAGAGAAGGAAGGAAGAAGA A G G G A A A G G G A G G G G G G G G G G A A G G C A G G T T G G G G C C G G G G A A G A A A G G G G G A G G A T A A G G A A A GAAAGGGAGCCAA G G G G G GAA A A A G GAA $A$ A A A A A A G GAA $A G G G G A A G G G G G G A A G G A G A A A G A A$ A GAGAAGGGCCAAGGCCAGAAAAGAGAAAAAGGCCGGAGGGC $C \subset A G G A A G G C A A G A A A G C A A A C A A A A A A A G A C C A A G G G G G G G$ G G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G A \operatorname{A} G A C A A C C G G A G A A G G G G G G C A A A A G G$ GACCGGGAAAAAGGAAAAACCGGGGAAGGGGAAGGCCGAAGC C GACCGGGACCAAGGAAGAACAAGCAGAAAAGGAAAACCCCA C G A A G A A A A C A A A G G G G G G G A A GAACC GAAAAACC G GAA A G G G G G A A C C A A G G G G G GAA $A \operatorname{GGGGGGGGGAAAAGGGGGGABAAA}$

A G G G G G G A A A A G GAGGGAAAAGGGGCAGGGAGAGGGAAAGGG
 GAAGGGGGGAACCAAACAGAAAAAGGGCCAGAGGAGGAACCG G G G G G G G G G G G G G A A G GAA A GAAAAAGGGGAAAAAA G GAACAC $C G G G G G G G G G G A A A A G G G G A A G G G G G G G G A A C C G G C C C A A A G$ GAACCCCAAAAGGGGAAGGAAGGCCAAGGCCGGAGAAGAAAA AAA $A \operatorname{GAAAAAAAGGGGAAAACCGGAAGGCCAAGGGGGGAAAAG}$
 A G G G G G G G G C C A A G G C C G G G G G G A A G A A A C C A A G G G G G G G G A AGGAGAAGAGGAGCCGGGGGAGGGGAGAAAGGGACGGGGAGC A G G G G A A A A G A GAGGGGAGAGGGAAGAAGACAGGAAAAGGCA CAGCCGGGGGGGGACAGGAGAAGGGGGGGGAGGAAAGGAAGB
 GAGAAGGAGAGGGGGGGAAAGGAAGAGAAAAAAGAAAAAGGG G GAA A A A G G GAGGAGGAAGAAAGGAAGGAGGAAAACCGAGAA G G GAACCGGAAGGCCAAAAGGGGCCGGCCGGGGGGAACAAGC C G G GAAA $A \operatorname{A}$ GAACCGGGGAGGGAAAAAAGACAGGGAAAAAAAA A GAGAAGGAGAAGAAAAAACCAAAAGGGGGACACAAAAAGAA $A G A G G A G A G A A A G A A G G A G C A A A G G G G G G G A A A A A G A C A A A G$ G GAAACCAGAGGGCCATGGAAATGCAAAAAGAGGACGCAAGA CAGCAAGAAAAAAGGGAAAGGTTAGAAGGGAAAGGGGAAAAC A A A A G G G G G GAGGGGAAAAGGGGAAAACCAAGGAAAAGGGGG G G GAGGGAAGAAGAAAAACACAGGAGAGGAGAGGGAGGACAA A A A G G A A G G G GCCCCGGGAGGAGAAGAGAGGAAAGCCAAGAA C C C C A A CAA $A \operatorname{GAA} G G A A G G C C C C G G A A A A G A G A G A G G A G A A A$ GAA $A \operatorname{G} G A G G A A C C A G C C C C A A G G A G G A G A G A G G A A G G G G G G G$ GAAGGAAAAAGGAATGGCCGGAAAGAAAGAACAAAGGGGCCG GAAAGCACAGGGGAAGGCCCCGGCCGGGAGGAAGGAAAACCC CAGATTTAAAAGAGGAAAAAGGCGGAAGGGGCCAACCABAAG GCCGGGGAACCGGGGGGAAGGGGAAAACCGGGGCCCCAAAAA
 AAAGGAAAAGGAAAAAAGGGGAAGGGGGGGGAACCGAAAGAA G G G G G GAGACCAAGGGGCCCCTAGAGGAGAAAAAAAGAGAAA
 A A G A G G G G G G G G G A C A A $\mathcal{A} G G A A G G G G G T A G A G G A A A C B A A G G$ A G G A A G G A A A C A C G G G A G G GAAAA A A A G G G G G A G G G A A A A A A $\mathcal{A}$ G GACAAAGGGGGACCGGAGAGCAAAAGGGGGGGGGGACAAAA G G G G G G G G GAA A GAAAAGGAGAAACAAAAGGGAAGCAAAAAA GAACCGAACGAGAGAGGAAAAGGGGGGAAAAGGACAGAAGAG
 GGGCCAGAAGGGGAGAAGGTTAAGCAGGGCCAAAGCCAGGGA A A A A A A A A A G G A A A G A G A G GAG GAAGGGGGAAAAAACAAAG G AAGAGAACAGAGGAAAAAAAGAGCCAAAAGGGGGGAAGAAAA G G G A A A G A G G GCCAA $\mathcal{A} G G A A G A A C A G G A G G G G A A G G A G G G A G$ GA $A \operatorname{GGG} G \mathrm{G} G \mathrm{G} A A C \subset A A G G A A A A A A G G G G G G G A G G A A A A C A A C G$ AAACCGGAAGGCCCCGGAAAAAACCAAAGGAGAGAGG
G G G GACAAGGGGGGAGAAAGCCCAAAAAAACCGGAACAGGA
 CAAA A A G G GAGGGGGAGGGGGCAAGAAAGAAAGAGAGAAGAA A A A A G G G G A G G G A G A A G T T G A A A G G G GC C G GA G A G G A A A G G A
 A G GAA A G G GAA A G A A C CAA AGCCGGCCAAAAGGAAAAGAAAA A A A G G G G A A A A A A A A G G G G A A A A A A A A A A GGGGCC G G A A A A G GAAGGGGAAAAAAAAGGAAAATTGGAAGGGGGGAAAAGAAAA A G G A A A A A A G G G GC C A A G G G G G G G G A A G G G G G G A A A A A A A A $G$ G G G A A A A G G A A G G G G G G G G A A G G A A A A A A A A A A C C A A G G G G A A G GAACCGGAAGGGGAAAAAAAAGGGGCCAAGGGGGGAAAAA A A A A A G G A A A A G GAAGGAAAACCGGAAAAGGGGAACCCCGGG $G G G A A A G A G A G G A A G G G C A A A G A G G G A A G C C G A C C G G C C G G G$

G G A A A G G G GCCAAAGGGGGGGTTGACGAAGGCAAAAACCGAA G G G G G A G G A G A A GAGCAGAGGGGAAAGAAGGGGAAAACAAAA $A G G C A G G A A G G G G G G A G A A G A A A G G A A C C A G A A G A G C G G G G G$ GACCCAGAGGGGGCCGGGGAAGGAAGGGGGAGGAAAAAAAC G GACAGGAACAGGGAGAAAAGGGGCAGAAAAAGGGGAGAAATA A GAG G A A C C A A G G G G G C G G G G G G A C G G C A A G G A G A G G A A C C G GAAAAAGGGGGAAAAGGGGAGAGGAGGGGGAAAGGGAAAGAA AGGGGAAAAAAAAAGAACCGAGGCACACAAGGGGGAAAAGAA G G G G A A A G G G GCC G G G A A TAAGAAAAAAAGGAAACAAAAAAA A A A A A A A A GAGGGCCGGGGGGAAAGCCGAAGAAAAAGCCCCG GAAAACCGGGGACCAAAAGAAGCGCAAAGCAGGACCCGGAGG
 C GAAA $A \operatorname{GAAAAAGACCGGGAAAGGGAGAGGCCGGGGGGCACAA}$ GCCGGGGAAAGAGGAAAGGAAAAGAAAACCAGGGGAAAAAGG
 G GAAACAGAGGAGAGAAAGCCGAGAGAGGGGAAAAGGGAAAA $G C A A A G G G A G A G A C C A A G A G A G C G G A A A A G A A G G G G A G G G G C$ C G G G G G G C C G G A G G G G A A G G G G A A T A G G G A G G G G G A G A A C A C GAGGGAAGAGGGGGAACAGAGAGGGAGCAAACCAAGAAAAAA A G G A A G G G G G G G G C A G G G A A A G A A G GAAAAAA A G G G G GAA A A TAAGGCCAAGAGGAGGGAAGAAAAAAAGGAGCCAAAAGAAGG A G G G G A A A A GA G GAAAAGGAAAAGAGGGAAGGAAGGAGAAAA AAAACACGAAGAGAGAAAACCCCAAAGCCGAAGTTAAGAGAG A GACCAAAAGGAAAAAAAAAGGGCAAAGGGGGGAAAGAGAAA A A ACCAAAGCCCAGAGAGAAGGGAGACAGGAAGGAAGAAGAG GAAAGGGGGAGCACCAAAAAAAGCAGGAGGAGACAGAAAGAA
 AAAGGAAAAAAAAGGCAGGCCCAAAGGGAGAAGGAGGGAABAA C G G A A A A A C A G A G A G A A GAGGGGCCAGGGAAGGAGAAGGGGA A G G G GCCGGAGAGGAGGAAGGCCAAAAGAAAAAGGAAGGGGG G G G A A G G A A A C A A G A G G A A G A G G G G G G C C A A C G A G A G G G G G G GAGGGGGCCAAAAGGAAGGCCAAGGGGAAAAAGAAAACAAAA A G G G G GAAAACACAAGAAAAAAAGACCGGACGGGGAAAAAAG A GAGGAAGGGAAAAAAAAAGGCCGGGGAAAAAGAGGGAGGAA A A A G G A A A A A G A A A G G G G G A GAGAGCAAGAATTAAAAAACAA A G G G G A A A G A A G A G G A A C C A A A A A G GAA A G G A GA G G G C C G G C CAAAACCAAAAGGGAGGAAAAGGGGGGAAGGGGAAGGAAAAG G G GCCAAGGGGGGAAGGGGAAGGAACCAAGGCCAAGAAAGAA A G G G G A A A A G A G G A G A A A A A G G G G G A A A A A A A
 A A A A G A ACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGAA $A C C G A G A A G G G G A G A G G A A C C A G A G G G A G A C G G G G C C G G G G G$ $A G G C C A A G G A A G G G G A A G A A G G G A G A G A C G G A G A A A G G G G G A$ $A C C G A G A A A G G A A G G C C A G A G C C G G G G G A G A A A A A G G G A G A A$ $A C C A A C C G G C C A A G G A A A A G G A G A A A A G G G G G G C C G G C C G B A$
 A G G G A G A G G G G C C A G A A A A A A G GAACCGGGGGGAAA GAAA A A A A A A A GAAA A GAGGAGGAGGAGGAAGGAAGGACGGAGAGAGG GCAGAGGAACCGGGAGAAAAAGGAAGGAGACGGCCAAAAAAG G GAGGAACCAGCACCCCGGGGAAGGAGAAGGAAAAGGTXGAA AAAGGAGGAAGAACCGAGGAAAAAACCTTCCAGAAAAGGGBA A GAAGCAAGGAGGAAAACAAAAAGGAAAGAAAAGAACGAAAG A G G A A G G A A G G A A A G G G C A A A G G A G A C G G A G G G A A A A C C A G A A GAGAACAACCGGCCGGCAGGGAGACAAGGAAAAAGGGGGGG GAGAAGAGGAAGACCAAAAGGGGGAAGCCGGGAGGAAAAGAG GAGGGGACAGGGAAAGGAGAGAACCAAGGAAAAAAGGGACCB A GAGGGGGGCAACGGCGGGAGAGGGAAGGAGGGCAAGAAAAA A A A A A G A A A G G A A G G G G C C A A G G G A A G G G C C G G A T G G G G A A A G G GAAAAACGAGAAACAGAGAAGGAAAAAGGCCAAAAGAAGG

G GCGAAAAGGAGACCACAAGGAAGGGACCGGGGAAGGGGCCA $A C C A A G G A C G G A A C A A A G G A A A A A A G A A C A G A G A A A A A A G A A$ A G GCAGGGAAAGGGGCCAAAAGGAGAAGGAAGAAGGAAAAAC CAAGGAAAAAAGGGGCCAAGAGGAAACGAGATAACAGAACGG ACCAAAAAAAGAGAAGGGGGGAAAAGGAAGGGAGGGAAAAAA CAAAGTAAGATCCGAGGAGAGCACAAAAAGAAAGAACGAGAA GAAAGGAGGAAGACCGGGAAAGGAACCGGAAGAACGAAGAAA A G GAA $A \operatorname{GGGGGGCCGGAAAAAACCGGCCAAAAGGAAAAGGGGG}$ GAAGGGGGGAAAGAGAACCGGCCCCAAAAAAAAAAAGAAGGA A AACCCCAAAAAAAAGGAAAGAAGGGACCGAGAACAAAGGGA GCAAAAAAGTAGACCGAGGGGAAGGGAAAAGAAAAAGAGGGC A A G G G G A A A A GCC G A G A GAA A GAGGAGAGAAAA G G CACAA G G G GAAAAGAAAAAGAGGGGAATACCGGAGGGCCGAAGGAAAGAA A A G G A A A A GAGTAAGAGCCAGAGAGCATTGGCAAAGGGAAAA AAA A G G GAAAAAAGAGAGGAGAAGGAAGAGGTA GGGGGGGAG AAAAAGAAGCCAAAGAGGGAAAAAACCAGAAAAAAACAGGGG GAACCGGACGGACGAAGCCAAGGAACCAAAAGGCCAGCCGAA A GAACCCGGAAGAAAGGAGGAAGGACAAGAAAGGGGGBACAA G G G G G G G A TAA A G G G G G G G G GA G G A A GGGAGAGGAAAACAAA $A$ GAAAAAAGGAAGGAGGGGGAAGGAGAGAGCAAGGGGAGGGGG G G G G G G GAAGGAAGAAAGGAAAAAAAGGACCGGCCAGGAGAA G G G G A G G G G A G G G G GAACC $A \operatorname{CGGGA} G A A A G A A G A A A G A G A C C A$ C G G A A A G G G G G C C G G G G C C G G A A A A A A G G A A G G G G T A G G G G C A A GCCCAAGAAGGAACCAAGGGGAGGGCCAAGGGGAGABAAA A A A A C A A G G G G A G G A G A A G A A GACCAAGGGGCCCCAAAAAAG A A A A A A GATAAGAAGAGCCGGGGAACCAAAAGAGGCAAAAAA
 GAGGGGGGGAGGAAAAGGGAAAAAAGGACGACCAAACAACAA AAAGAAAAAGGCCGAGAGAAGAGGAGGAACAAAACAAAAGAA A G G A A A A G G G G G GAGC C GAGGGGAGGGAAGGAAGGCCCXGGA A G G A A A A G G A A C C G G A A A G A A A C G G A GA G A A G A C C A G G G A G G G G GAAAACCAAAAGAAAAGAAAAAAGAGACAAGGAGAACGGG A A GAGAAGACAGAACGACCGGAGGGCCCCAAGAGGACAAAAG G GAGGAAAAAACCGGCCGAGAAAACCACAGAGGAACAAACAG GAAGGAAGGAAAAGGGAAAACGAAGGGAAGGAAAAGGAACAG G G G A A C A A A A A C C A A G G A A CA GAGACCACGGCCAAA GA GA GA A G GAAAAAAAAAAAGAAAGGGCCGGAAAGGAAAAAGGGAGGG GAAAGGGCCAACCACGGAAGGAGGAAAGGGAGGGGGAAAAAG G G G A A G A A A A A A G A A G G A A GAGCGGAAGGAGAAAA G G CAC G A A G GAACC C G $\mathrm{C} A A A A C A G A G G A G G G G A A G G G A G G G C C G G G G C C G$ GAAGGTAGGGGCAAAAGAAGGGGCCAAGGAAGAAAGCCCGGG GACGAAGGGGGGAAAAAAAACAGAGGAACAGGGAGGGGGGGG G GAAAGAGGAAGGGAGGCGTTGGTTAAAGAAAAAAAACACCA G GAA A A G G A GAAGAAAAAAGGGGGGAACCGAAGGAAAAAAGA G GAAGCAAGGAGGAAAGAGACCAGGAGAGAGCCGGAGAACAA GAAAA $A \operatorname{A} G A T T A A A A G G A A A A G G G G G G G G A G A G G G G B A G G G G$ G G A G G G A G G A C G A A C A A G A GA GAA GAGCCAGGGAAAAG G GA C A G G A A TA A A A G GAGGGGCCGGCAGAGAGGGAAAGAAAGAAAA A G G A A A A G G G G G G G A A GCA $\mathcal{A} G G G A A G G C A C C A A G G A A G G G G G$ $G C C A A A A G G A A G G G G A A G A G A C C A A A A A A G G A A A G A C A G G G A$ AA G G GAA $A$ A $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A A A A A A A A A C C G G G A G G A G A G G A G A A G C$ A G G G A A G G A CAAAAAGGGGGACCAGAGAAAGGGGGCCACAAG G C G G A G A G G G G G A A G G A G G T A G G G G C C G A A A A A G G G G G A A A A GAAAAAGAAGGAAGGAAGGCCAGAGAGAAAACCAACCAAGGG GAATTGGGGGAGGGGACGAAAAAGGGGAGGAAGAGAAGGGGG G G G A A A A A A A A G G A A G G A A G G A A G GAAAAAAAAA G G GAGGGGA TA $A G G A G G G A A G G G A A A G A G G G G A A A A A A C C G G G G G A A G G A A$ A G G G G A G G A G G G G C C G G G G G A G G G A A A G G G A A C G A C C G A G G G GAGGAGGGGGGAGAAAAAGGGAAAGGGGGGGAAGAAAGAAAC

CAGGGCCAGAGGAGAGAAGAAGGGGGAAGGGGAAAAAGGGGG GAGAGAGCGAAAAAAGAACAAACAGGGGAAAAAAGGGAGCCB
 AAA A GA A A G GAGGAGAAAAGAAAAAAGAAGGGGGGGGAAGAA A G G G GAAGGAAAAGGAAACCAAGAAGGAAGAAGAGAAAGAGA T G G G G C C A A G G A T G A A A A C C G TA $\operatorname{CAAAGAAGGAAAAAAAGGGG}$ GAGGAGGAGAGAAAAAACAAGCCAAAAGGGGAAAAAGABAAG GATGAAAACGGGGAATTAGAAAGCCAGGGAAGGGGCCAGCAA A G G G G G G A A G G TAA $A$ GAACC G GAAAAAAAAAAAAAAAAAA A GAC CAAAAGGAAAAGGGGGAGAGGAAAGGAGAACAGATGGGAAAA A A A G G A A G G G G G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G G A A G A A A A G G G A C$ CAACCGGACAAGGGAGGAAAAGAAAGGACAGCCAAAAGAAAG GAAGGGGAAAGGGAAAGTTCCAAGGTAAAAACAAGAAAAA GA AGGAAAAAAAAAAGGAACCAAAAGGAAAAGGAAAAAAAAAAG GAACCGGGGGGGGGGAGGGGGCACAGGAGGGGGGGCCAAAGA A A GAGAAGAGAGACAAGACAAGGAAAAGGGGGGAAAAAAGGC C CAACAAGGAGGGCCCCGGAGGACACACAGAAGAGAAGAAGG AAACCAAGGGGGGAAGGTTCCGAGAAGACACCAAGCAAGACG GAGGGACCCAACCGGAAAGAAAGGAAGCACAAGGAAGAGGGA GAAAAGGAAGGAACCGGGAGGCAGGGAGAGAGAGGGGGAAAA A G GAAAGGGCAAAAAAAAGAACCAGAGGGGGGGAAG GAAAAC C G GCCGAGGCAAGGGAGAGACAGGCATGAGGGGCAGAAAAAG A A G A A A G G A C A A A G G G G G G G G A A A A G G G G A A G G C CAACAAA C GAAAAAAGGAAGGCCGGGGGGAACCGGAAAGGGAGAGGGGGC A A G G G G A A GACAGAAAAGGAAGAAGACAGACGGAAAGAAAAC C G G T T A GCAA C G G G GAGAAGGGAAACGGCAAACCGGGGGGAGA GAAACAAGGAAGGGGAAGGGGGGAAGGCCGGGGGAAGACAAA GAAGGGGGGAGCAAAAGAAAGACGGACGGAAGGAGGGGAAGG AAAGGAAAGGGCCGGACAGCCAAGAGAGACCGAGACAGAAAC CAAGGAAGGCCGGAAGGGGAACCAGAGAGAAACAGCGAGGGA G G G A A G G A G G G A A G G C C A CAGGGGGAAAGAAGAGAAGAAAA G AAAAAGGAAGGAAAAGGAGGGGGCCTTGGGGGAGGGGAGAGA GAAACAAAAAAAAAAAAGGAGAAAACCCCCCGAGAGACCGBA GAAAAAAGGGGAAAAAAGGGGAACGAGAGCCAGGGGGAGGAC C C CA $\operatorname{CAA} \mathrm{A}$ G G GACC GAGAGGGAGAGAGAAGAACCAAAAGAAAG A A A G A A A G A A A A G A G G A A G G G A A A G G GAACCGGCAACGA G G A G GAA A A G G G GAA A A A G G G GCACCGGGGGAGGAAGGAAGAAAA G G G GACCAGAGAAAGGGAGAGGGGAGGAAGGGGGGGGGAAAA G G GCCCAGAGAGAGAAAGAGGAAACGGGGAAACACAA
G G T T G G A A A A A A G GAA $A$ AAAACAGACAAAGGGGAAA GAAAAA GAAAAAAAACCCCGGAAAAAAGGCCGGGGAACCCCAAGGGGA $A G G C C G G G G G G G G A A G G A A G G G G C C G G A A G G G G G G A A G A A B A$ G G G G G GAAAGGCCGGGACAGAAAGGACAAAAGGCCAAAAGAA GAGGGGGAAAAAAAAAAAGAGCCAAACGGCACCGGGGAGACC A G G G G G G A A A A A A C A G A GAA A GAA $A$ G G GAAAA A A CA G G C C G G A GACAGAAAGAAAGAGGAAGGGGAAAAGAGAGGGGGGGGAGGA GCGCCAAAGGGGAACTTCAGAATAGGAATAAAAGGAAAACAG G GAGGGGAGGAGGGGAAGGGGAAAGAACAGGGGGGACGGGGG GAAAAGGGGGGCCGCCCGGGAAGGAAAGGAAGGAGGAACAAA GAAGGGGAACCAAGGAAGGCCGGGGCAGAGGAACAAGGCCAG G GAGAAAGAGAAGGGGGGAAAGGCAGAAAGGGGGGGAAGCAA GAACCAAGGGGAAGAGAGAGGAGAGAAAAGAGGAAGAAAAAA GAAAAAAGGGGGGGGCCGGCCAAGGCCGGGGCCGGGAAAGBA A G GAA A GAA A G G GAACCAAGGGGGGGGAAGGAAGGAAAAGGG A GAGGCCATACAC GAAAGGGAAGGGGAACAAAGGGTTAAGEG G G A A G G G A A G G A A A G G A G A A A A A A A G G CA GA G G A A GACA G G A A A A A A A A G GCAAGAAGGGGACAGGACCGGGGGAAAAABACAA A G G A C C C G A G A G A GACA A A A G G G GAGGGGA GA G G G G G G G A G A $A G G G G G G A A G G C C G G A G G G G A A G A G C G A C G G G A G A A A G A A A A$

AAAGGGAAAGAGGGGCAAAAAGGAAAAAAGAAAAGGGGGGGG GAAGGAAGGAAAAAAGGAAGGCCAAAAGAGAAGAAAAAAGBA GAAAAAGGGAAAAAAGAAAGGAGGAGGAAAAGGGGAAAAAAG G G GAACCAGGGTTAAGGAAGGGAAAAGGGGGAAAGAGGAAAG G G G G G GAAAGGCCGACCGAAGGAACCACAAGAACCCCAAACAA A $G A A G G G G G G A G G G G A G G G A A G G C A G A A A A A G G G G G A A G G A G$ G G A A G G G G C G G A G G G G G G G A G A A A G A G G G A A G G C C A G G G A A A A G G G A A A G GAAAGGAATGGGGAAGAAGAGGAGGGGGGAAAAA CAAAACCGAAAGGAAAAAAACAAGGGAGGAAGGAGGGAGGGA GAAAAGGGAGCAAAAGGGAAGGGAAGAAAAGTAAGGAAGGGA A G GAA A GCCAAGGCCCCGGGGAGGGAAAAGGAAAAGAGACAC C G GAAAA $A \operatorname{AGGGCA} A A G G A A G G A A G G G G A A A A A A A A A A A A G G C$ C A A G G G G G G G A G G A G C A A $\mathcal{A} G G G G G G G G A A A G C A G A A G A G G A A$ GAAGGGGCAACATGGCCCCGGGACCAACAGGCAGGGAAAAAA GAAGGAAGAAGAGGAGAGGGGAGGGGAAAGGGGCCGGCAAGA $G C C G A C C G G A G G G A G G G A A A G G G G G G G A C A G A A A A A A C C G G A$ G G GCCGGGGGGGGGGAATTGAAGAAAGAGGAAGGAAACAAAA A A A A A G G A A G G A A A A A A GAAGAACCCCGGGAAGAAAAGAGAA GAAGGAAGGTTGGAGGGCCGGAAAGACCCAAGAAGCCGAAAG G G G G A A A C A A A A G G A A A A A G G A A A GAA G G T TAAAAAA A G C C A $A C C G G A A C C A A C C A A A A A A C C A A G G A A C C G G G G G G G G A A A A A$ AAAGGAAGGAAAACCGGAAAAGGGGAACCCCAGCCCCCAAGC CA $\operatorname{G} A A A A G A G G T T A A G G G G C C G G C A A A G G A A A A G A A A G G G G G$ ACAGAAAGAAGGAAGAAAAAGGAGAGGCCAAGGGGAABAGAA A GAGGGGAGAAGGAAGGGAAAGGAGACAGGGAAAAAGAGAGA AAAGGAAAAAGGGGGAAAAACACAACAGGCGAAAAAAAAGGA G GAA $A \operatorname{GAAAAAAAAAAAGGGAAAAAAGGGAGAAAAAGGAAAAA}$ A GA $A \operatorname{GAA} A A G G A A A G A G G G G G A A G G A A G G A C G A A G G G G A A A G$ GACGGAAGGGACCACGGAGGAGGAAAAAAAAGGGGCCAAGAA AAGAGATGGACGGGGGAAAGAAGAAAAAACCGGAAAAGAAAC CAAAACCAAGGCAGGGGCCGGAAGGACGGAAGAGGGAAAAAG GAAGGCCAAGGAAAGGGCAAAAGGACAAAAAGGAAGGGGAAG GAAACAGGGGGGGAACAGGGGAAAAGGCCAAAGACGAAAAAA A G G G A C C T T G G G G C C A G G G G G G G G A G G G G G G G A A G C A G A A G G GACGGGGAAGGGGGAAAGGAAGGGAAAGAGGAGCAGAA G G G G A A A A GAGAAAAAAAGAGGAGGGAGAACAAAGGAAAGAAAAAAGGA A G G G G G GA $\operatorname{A} G A G G A A G G C C G G G G A A G G G G A A A A G G G G C A A A A$ A G GCCGGAAGGAAAAGGAAAAGGGGTTAAGGACGAGAGAAAAA A G G A C A A G G G A C C A A A G C A A A G G G GAGCCGGAACCTTACA G G GAGGGAACAGACCACGGGGAAAAGGAAGGAAAAAGAAGGGGA TGGGGAAAGAGCAGGAACCGGAAAACCAAAAGGAAAGGAAGAG G G G C C A T G G G G G G G G A A G G G G A A G G A G A G C A A A G G A G G G G G C AGAAACGGGGGGAGACAGAGGGACAACGAGGGAAGAGAAGGC CAACCAAGGGGGGAAGGGGAAGGGGGGGAGGAAA$G G G G G G G A$ AAACCGAGAACGAACAGAAGGAAGAAAGAAACCGGAAAAA GA A CAG G A A G A A A A C G G G G GAGGGGAAAAAAAAAGAACCAAGAA AAACCAATAGGGGGGAAGAAGAGAAAGCCAAAGAGAAAAAAA C G G G G GAGAAACCCATTCCGGGGAAGGATCACCCCGAAGAAC CAAAAGGGGGGGGAAAAAAAACCAAGGAAGGGGAAAAAAGAA A G G A A G G G GCCAACCCCGGGGAAAAAAAAGGGGGGAAAAGGG G G G G G G G A A G G A A G GAAGGAAAAAAAAGGGGAAAAAA GAAAAA A A A A A G G G GAGGGGGAAAGGAAGGGGGGGAAGGGGAAGAA GA GAAAACAAAAGAGGGAGGGGGAAAAAAAGGAGGGGGGGGGGA TGGAATTGGGGGGAAGGAAAAAAGGAAGGACAAAAGGGGCCA AAAAGCACCAACAGAATGAAAAAATTACCAAAAAAGGAGAAG GAGAAGAGGGGAACGAGTACCAGAGACGGAACCGGAAAAAGBG GAGAAGAAAGGGGGAACGGAAGACCAAAAGAACGAAGGGGGG G G GAACCAGCAAAAAAGGGAAAAAAGAAAAGAGGGGAAACCG $G G G A G C G A A A A A G A A C C A A G G G G G G G G G G A A A A G G G A A A A A G$

GAAAAGGGGGAAGAAAGAAGGAACCGAAGAGCAAAGGTXACA $G C C G A C C A A A A A G G A A A A G A A A A G G G G G A A A A A A A A C G G G G G$ G G G A A A GAGGGGGAAAAGGAAAAGAGGCAAGGGAACAAATTA $A C C A G C C G G G G A A A A A A A G A A G G G A T A G G A A A A G G A A G G G G A$ AAACCAAGGAAGGAGGGGCCAAGAAAACCGGGGGGAACCGGG G G G A A C C G G A A G G A A T A A G A G G G G A A A G G A A A G A G G A G G G G G
 TGGAAGGCCGGGGGACCGAACCAGAAGCACACCCCTTGGTAT T G A A A A A G G CA GACAGGGAAGGGAGCACAGAAAAA GGGGGGA G G G G G GAAAGAAGGAGAAACCGAAAGGAAGGAAAGACGGGAA A G GAAAAAAAAGGCAGACCAAGGGGGGAAAGGAAGGGAGGGA $A G G G G C C A A G G A T G G G A G A A A G G C C G G G G G G A G C A G G G A G G A$ A GACCCAAGAGGGGGCAGAGGAAAACCAAACGGTTGGAAGAA A G G G A A A A A G GAACCAAAAAGGGGGAAAAAAGGGGAAGAGAA AGGAAGGGGCCGGGGGGGGAAAACCCCCCAAAATTGGAAGAA
 G G G A A C A G G GAGGAGGGAAAGCCCAGGGAGAGGAGGAAAACA A GAAGGGCCAAAAAGAACCAAAAACAGGGCCGGACAAGACAG G G GCCAGGGGGGGGGAAAAGGCCAGAGAGGGGGAGAAGAAAG GCGAAGGGGGAGGAACCAAGAAACCAAAAAACCGGCCBGGAG A GGAAGAAAAGGGAGAGAGACAGGGCAAAAAAAGAAAAAAGA A A A A A A A G GCC C G G GAA $A \operatorname{AGGAGGGGGGAAGGCCAAGGGAAAA}$ A A A G GACGAAAGAGGCCGAGGGCAGGACGAGGGGGAAAAGAA
 GAAGGAACATTAAGAAACCGGGGAATAGAAAAGCAAAAAGAA A A A A A A ACCCAAAAAAAAGGAGGAAGAAGGAACCC GAGEGAA AGGCCAAGGGGCACCGGAAGGCCGGCAAAGAGGCCAAAAGAA A A A A A A A A A A GCCGGCCAAAAGGCCGGAAAGGGGAGAGGGGA A G GA G GAA $A \subset C A A G G A A G G A A G A C A A A A A C C A A G G A A A G A C G$ GAGACAAGGCGAGAGAAGGACAGGGAAAAGAGCGAACCACCB A A A A A A A G A G G G G A GCC G G A A A A A A G GAAGGGGGAT TAAAAA $A C C C C G G C C G G A A A A A A C C A A A A G G A A A A G G A A A A A A A A G A A$ A A GAGTTGAAAAAGGGAAAAGGGGAAAGGAGCAGGCCAGGAG
 A A C G G G A A A A G G G A A G G G G A A A A G GACGGGGAAGG GA GAAA $A$ A GAAA A G G GATAAAAAAAAGAAGGGAGAAAAACTTAAAACAG GAAAAAAAAAAGAGGAGACCCGGTTAGAACAAAAAGGGGCCA GAGGAGAGGAGGGCCAGAAGGGGGGGGGAGAGGAACAAAAAT TAAAAAGAAGAGGAAAGGAGAGGAGAAGGGATTGGGA
A A A A G G A A A A C C G G G G G A GAGGAGGGGGAACCGGGGGAGCG AGGAC GAAGCCAACCGAAGGGCCGGAGAAAAAAAAGGGAAAG G G G G A G G G G A A A C G G A G G A A A G G A A A GAAAAAA A GAA GAAA $A$ G G GACCAGGGGAAAAAGACGGGGCCAAAAGGACGGGAAATTG GAGCGAAGGCAAAAACCGAAACCAAGGGGGACGAAAACAAAT TAAAAACAGAAA GAAGAAGAACAAAAAAAGGAGAGGBAGCAG GAGAAGAGGGAAAGGAAGGGAAAGAAGAGGGGAGGAAAAAAG GAGCCAAGGGGGGGAAACCGGGGCCAAAAGGGGAAGGGGGGA AAAAAGGAAAAGGAAGGCAAGGAAGACGGGGGGATCAAGAAG GAGGGGGAAGGGAAGGAAAGGACAAGGGGGGGGAAAAAAGGG
 G GACGAACAAGGGCAAAAGAGGAGAAAACGGAAAAGAAGAAG GAAGGGGAAGGGGCCAAGGAAGAGGAAAAGGGGAAAGAAA GA G G G G A A G C A C A A G G G G C A G G G C A G G G G A A G G G G A GAA A A C C C CAAAGAGAAGGGGCCAAAGAAAAAGAGGAAAAGTTCAAGCCG
 CAGGAAGAGTAAAGAGGGAGAGAAGGGACAAGAAAATGGGGA A A A G G A A G GAA A G A GAAAAAAAAAGGGGGCAGACTTAAA GA G G GAGAGAAGGAAGACCGGAGGGCCGGAACCAGGAGAGAAAB AAAGAAGACGAGAACAAAAAAAAGGAATTCCAAGGAACAAAA

C G GAGAGGACCAGGAAGGGCCAAGGGAAGAGAAGGGAGAAAC
 AGACCCCAAAAGGAGAAAAAAAAAACCAACACAAGEACAAAG AACAAGGGAGAAGGGAAGCGAGGGAGGGGAGAGGAGAAGGGG G GAAAAAGGAGGAAGAACCAAGGGACCGGAGGGCCAGCAAGA G GAGGGGCCGGCCGAACGAAAGAGGCCAGGGGGGGAACAAAA $G C C A A A G G C A A A A G G A A A A A G C C G A G A G G A A A A C C G G G A A G A$ A A A G A A G A G G G A A G G G A A A G G A A G G G G GA GA $\mathcal{A} G G G G G G G G G A$ G GAGGAAAGACGACCGGGGAGGGAGAACXAAGGAGAAAAGGG CAGGGCAAGAGAACAGGAAAAAAGGGGAAAAGGAACCCCGGA ACCAAAAGGGGAAAAGGGGAAGGAAGGGGGGAAGGAACAAAA $A \subset C G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGAC CAA $A \operatorname{GGG} A A G G G G A A A A A A G G G G G G A A G G A A G G A A A A G G A A A$ ACCAAAAAAAAAAGGCCGGAAAAAAGGCCGGGGAAAAAAAAG G G A A A C C A G G G G G A A G A A A G G G GCCGAAAGGCCGAAAAAAA $\mathcal{C}$ A G A A A GA G GCCAGGGGGGAAGAGGGAGGGCCGGGAAGAGAAG GAAGGAAGGGGAAGGGGGGACAAAAGAAAAAAAGGGAGACCG A A A G G A A A GAAGGCCAAACCCGGAAAAGGAAAGACGAGAACA AGGGGAAACGGCCAGGGGAGAGGACAGAAAGACAGGAGAAAG ACCGGGGAAGGGAGAAAGGTTGGAAAAGGAAGAAGCCGAGAA AAAAGGGCCCCAGGAAAAGAAAGAGGGCAAGGACCGAAAAAA G GAA A A G A G G A GAGGGAGGAGAAGGAAAGCAGGGGGGAACAA GAGCAAAAAGGAAAAGGGGGGAAAAGGGAAAAGGGGGGGGGA GAGGGAGGGGGAACCAGAAAGGGGGAAGGCCGGTTGGAACAA
 A G G A A G G A A A A A A A A A A A A G G G G A A G G G G G G G G G GC C G G C C C CAAAAAAGGAAAAGGAAGGGGAAAAAAAAAAAGGGGGGGCCG G G GAAGGGGAAAAAACCAAAAGGAAAAAAAAAAAAAAAACAG GAA $A \operatorname{G} A A G G G G G G G G A A G G G G G G G G G G G G A A A A C C G G G G C C A$ A AACCAAGGAAGGAAAAGGGGAAAAAACCAAGGCCAAAAAAA A A A A A A A A ACCAAAAGGAAAAGGGGGGAAAAGGAAAAAAGGG GAAAACCAAAAAAGGCCGGCCGGAAAAAAGGAAAAAAAAGBA A G G G G G G C C A A G G A A A A G G A A C C A A G GAA $A \operatorname{AGGGAAAAAAGGC}$ C G G G G A A G G A A A A A A T T G G G G G G C C C C G G G G G G G G A A G G A A $G$

 C G G G G A G C C G G A A G G C A A C GA G A G G G A A C G A A A A A A G G G G G A
 A G G G G G G C C A A G G A A G A A A G G GAGGAAGGGGAAGAAAA A A A A G G G A A A G G G G G A A G G A C C G G A A C A G G G G G G A G G G G G A A G G A G G GAATAGGAGAGAAAACCAAAAGGAACCGAGAAACCAGAGAAG A A A A A A A A A A G A A A A G GAA $A \operatorname{GGGGAAAAAAAAGGAAGAAAGAG}$ A A G A A G G G GA GAA $A \operatorname{AGGAAAAAAAAGGGCAGGGGAAGAGAGGA}$ A G G G G T T G G A A A A G G G G A A A A A G G G A G G A T T A A C CAACC C C A CAAGAAGAGGGGGAGAGGACAAAAGGGGAGGAAAGGCCAGBA ACCGGAAGGAGGAGGAAGGGGAAAAGGGGGGAGGGAGAAAAG G GAAAAAAACCAGGACCAGAAAACCGGAAAAACACGCAACAA G G GAAGGGACAGAGGGGACAAACGGGGAAAGAAAAGGAAGBA AAGCCGGAAAGAGGAGCGGAGGAAAGGAAAAGGAAAAAAAAA A G G GA G GAA A GAGAAAAAAAAAAGAAAACACGAAGGGGGGGA A G G G G A A G G G G A G A C A G A A A A G G A G G G A A A A G G A A C C A A G G A G G G G G A A A A A G G GCCAAAAGAAAGAAAAAAAGGAAAAGAGAA AAAAAAAAAGGAAAGAGGGAAAGAAAGGAAAGGAGACAAABG $A G G G A A A G G G A G A G G G A A G G G G G A A G G G G G G G G A A A G G A A A A$
 G A G G A G A G G A G G G G G G G G G G A G A A A $\mathcal{A} G A G A C G A G G G G G G G G G$ GAACCAAGAAGCAGCAGGGACAGCCGAAGAAGGGGGAAAAAA

A G GAGCCAACAACGGAAGGGGCAGGAAGAGACACCAAGGGGG GAAAATTGGAAGGAAGGAGGAAGAGGGAAGGGGGGACAAAAG GAGAAGGAGGGGGGAAGAGGGGGGGAGAAAGAGCCGAAGGGC C G GAAA A G G G GAAA A GAGGGAAGAGGGGGAAGAACAGCAGGG A A A G G G G G G G G G G G G G G A A A A A A A A G G G G GAC CAA A A C C G G G GAAAGAGGAAAGAAGCAAAAAAGGAAAGGAAGGAAGAAACCT TAAATGGAAGGAAAACAAGGAGGAAAAGGAAAAGGGGAAAAA AAAGGAGAGAGAGGACAAAAAAGCAAGGGCCGGAACCGGGGT TAAAGGGAAAACCAAAACCAGGGAGGAGAAAAGCAAGBAGAC AAGAAAGAAGGGGAAGGCCACAACCGAAAAGTAAGAAGGAGG G G GCCAAAACGGAAGCACAGGGGGATTGGCCGAACCGAACCG GAAGAGGGGAGCCGGAAAAGGAAGGCCAGAGGGAACAACGGG CAGGGAAAACAGGGAAAAGAGGGGGAAAGAAAAATGGAGGAA A G GAAAGAGAGAGAAGAGGAAAAAGAAAAAGGGGCCCAAACA A GAGGGGAAGGAGAGAAAGGAGAGAAATTGGAACCGGGGGGG $G C C G G C C A G G G A A A A A A A A A A G G A A A A C C G G A G A G A A G A A G G$ C G GCCGGCAAACCGGAGGGAAAAGGAAAAGAGGGGAAAAGAA G GAGGGAGAGGGAAGGGAGGAACAAGGAAAAAAGAAAGGCCG GAAGGAAGGAAGGCCAAAAGGAAGGTTAAAAAGAGACGAABAA GCAGGAAGAAAAAAAAGCCAGGAAGGAGGAAAGGGGAAAAAC $C G C A A G C G G G A A G A G G G G G A A A G A G G G G G A A G G A A A A A A A A G$ GAGAGGAGGGAAAGGAAGGAAGGAAGGACGGGGGGCAGAAGG GAACCCCCAAAGGAAGAGGAACAAGAAAAAGAGAGAGCAGGG GAAA A GA $A$ A A A A GAAA $A \operatorname{A} G G G G G G G G G G A G G A A A C A A G G C C G G G$ GAAAAAAGGCCGGGAAGAAAAGACCAAGGGGAAAAAAAAGGG GTTAGGAAACCAACAACAATAACGAGAGGAGGAGACAGGGGA $A C C A A A G A G C A G G G G G G T T A C C C A A A G G G G G G G G A G G G G G G G$ GCCGGAACCACAAACGGAAAACCAAGGGAAGCAGGGGGGGGG $A C C A C A A G A G A A G C A G A A T G G G G A A A A A A G G G G G G A A G G G G A$ AAACAAAGGCCAAGAAAGGGGAGAAAAAAAGCGGGGGGAGAAA A G A A ACCCAAGACAACAAAGGAGCCAGAGCCGAAGCCGGGGA ACCAAGGGGAAGGCCAAAAAAAAAAGGAAGAGGAAAAAGCCG AAAACCGAAGGGGAAAGAGACGGGGGGGGAAAATTAGAAAAG GAAAAGGAAAGAGAGAAGAAGAACCAAAAGGAAGAGGACAAG GAGGGAAGGAGAAGAAAGAAGGGCCATGAGGGAAAAGGAAAA G GAAAAAAAAAGGAACCCCGAGAACCAAGAGAAGGGGGAAGG GAAAAAAAGGAAAAAGAAGGGGGAACCAGCAAGCGGAGGGGG G G GAAACGGGAGGGGCAGAGGCCGAGAACGGCCCCAAGAAAG G A A A G G G T T A A G G A T A C G G C C A A G G G G A G A A $\mathcal{A} A A G G G$
A A GAA A A G A A A A A A C C G GAGGGGGGAGGAGAAAGGGA GAAA G GAAGGAAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAAAAG G GAAA $A \operatorname{A} A A A A G G G G A C A A A G G G G A A A A G G A A C C G G G G G A A G G$ GAGCAGAAAAAGGCAGGGGGGAACCAAGGAAAAAGAACAAAA A A A G G A A T TAA A A GAA $A \operatorname{AGGGGAAGAAAAGCCGGGGAGCAAGA}$
 $G C C T T G G A A G G A G A A G G A A G G G G G A G G A G G G G G C C A A G E C C G$ GGGAACCGAGGAACAAGGGGAAAAGAAAGACACAAGGGAGAA A GACCAAAAAGGAAAGGGGAGGAGGGGAGAAAGGGGGCCGGA A G GCAA A G A A A GAGGGGAAAGAGCAAGGAAAACACAGAAAGA A A G G G A A G GA G A A G G A GAA $A \operatorname{AAGAAGGAGGGGGGAAAGGAGGG}$ G G G A A G G A A A A G G G A G GAAAGGAGAGGAAGGAAAAGAAAAAA GAAGAAACCGGAAAACAAAAAGGAAGGGGGGAAGGAAGGGGG GCCAAAAGGGGCAAAAAAGAGAAGAGGGGGAAAAAGAAAAAA A AACCCCAGGGGGTTGGAAGGGGCAAGAGGAAGAGGGAGAGA CAGAGGGAAAGAGAGAGCAGGCCAAAAAACCAAGAGGAGAAA A A A A A A A A A G G A A A GCCGGGAAAAGGGAGGGAGAAAGAAAAA GAGCCCCGGAAAAGGAAGGGGGAGGACAAGGAGCCBAAAGGB
 $G C C G G G G G G G A A C G G A A T T A A A A G G G G G G C C G G A A G G A A G A A$

G G G G GAAAACCCCGAGGGAGGGAGGAGAGGGGGGGCCGAGGG GCCCC G G G A G A A C G G A A G G G G A A A G G G C C G A G G G G G G G G G G C C G G A G A G G GCCAAACGGCAGAGGGGAAACGGGGGGGGGGAGG GCACACGAGAAAAAAGGAAGGGGGGGGGGAAAAGAAGACACG GAAGGGGAACCCCGGGGAGAAGGGGGGAAAAGGAAGAAAAAA G G G G G A A A A A C G G G GAAGGAACCGGCCAGCCAAGGAAAAAAG GAGAGAGAACCGGGGAGCCGGGGAAGGGAACAGGGCCGGGGG
 GAAGGGGGAGGAAGGAAAAAAAAGAGGGGAAGGACAGAAABG G GGAAGACCGGGAGACCAAAAGGAACCGGAAAAGGAAGGGGA $A C C G G A A A A G G A A C C A A A A G G A G G G A A A A G A G G A G A G G G A G A$ G G G A A G G A G T T G GAGCCAGAAGGGACCAAGAGGAGCAGAAAA G G G A A A G G G G G A A A A A A A A A G G G G G G G G C C G G G G T A A A G G G G A GAGGGGCAAGGAGAGGGCCGGAAGGAGGGCCGGGAAACAAGA GAGGGAAACAAAAGGAAAGGGAAGGGGGGAAAGGAGGGGAGT A G G GAAAGGCAAAAAAAGGGGAAGGGAAGGAAAGAAAAAGAA T G GAAAAGGAGAAGGGGCCAGGGAGAAAGGGAGAAGACAAAC C G G G G A A G A G A A A A G G G A GCCAAGGCC GAAAAAAGAGAACAA A GAACGGGGGGGGAAAAGGAAGACAAAAAAGAGAAAGACAAA TCCGGAGCAGGGGAAAAGAGAAAGGGGAACGAAAACCGGAGA G G G G GCCCCAAGACCAAGAGGAAAGCCGGCCGGGAAAGGTAC CAGAGAAAGAAAGGAAAACGGAGAAAACGCCCCAACCAAAGC CAAAAGGCCAAAGGGGGAGGGAGGGGGACCCAAAAGAGGGGA $G C C A G A A A A A A G G A A G A A A A A G G G G A C G A G G A G A G A A G A A G A$ ATAAAAAAACAAAGGGGGAAAAAAGGAGACCGGAAAAGGGGG G GAAGAAAACCGAAACCAAAACCAACAAAAGGAGGAGGAAAA A G G G G G GCAACAAAAGGGAAAGGGAGACAAGGGAGAGAACAA ACGACGGCAAAGGGAAAAAAAGGCCGGGGAAAAAAGAAAAAA A A A G G A A G G G A C G G GAAACAGGAGGGGGGAGGAGGGACAA GA ACCAAAAAAAACCACGAACCGAAAAAAAGGAAACCAAAAGAG A A A A A A A A A A G G A A GAACCACAAAAGAGGAAGGAGAAAAAAG G G G GAGGGGGGGGAGGAAAATGGGGGGAAAAAAAAAGAAAAC C G GA $\operatorname{l}$ A A G GAGGGAAATAAAACAAGAAAACCGGGGCAAACAA AACAGGAAGAAAAAGAGAAAAAACCGGGGCATAAACAGAACG $G G A C A A A A A G G A A A G G G A A G G G G G G G G G G A C A G A A A A G A G G G$ A G GA $A$ A $A G G A G A G G G A A G G G G A A A A G C G G G G C C A G A A A C G A G$ $A C C A A G G A C A C G G G G A A A C A A G G A G G G A A G G C C A A G G A A G G A$ A A A G GAA $A \operatorname{A} A G A G G C G G A G G G A A G A G G A A C C A A G G G G C C G G G$ G G GCCGACAAAAGAGACGAAGGGAATAAACCAGAAAAGGCCG GAAAAAGCGAAGGGAAAAAACAAGGAAGGAAGGGGGAAACCC C C CAACAAAGGAAAAGGGAAGGGAAAAGGAGGGGAGAACAAC CAAAACCGGAAGACCAAAGAAAAGGGAAGACGGAAAAAAAAG GAAGGCCGGAACCGGGGAAAACCGGGGGGCCGGAAAACAAAG
 A G G G GACCACCAAAAGGAAAGAAGGAAAAGAAGGGAAAAAGC CAGGGAAGGAAAAGAAGCCCCGGCCAGGGGAAACAAAAAAAC CAAGAGGAGCCCCAGAGCCGGTAGGAAAACCAAAAGGCCAGA G GAAAAACCAGAAAAAGGGAAAAAAGGGGACGGGGAGGAACA GAAAAGAGAGGGGGGGGGGGAGAAACAGGAAGGGGGGAAAAA A G G G G A A G GCCAAAACCAAACAAACCCGGCCAAGGAAAAAAG G G GAA A A G G GACCACAAAGAAGGGGGAAAAAAGAAAAAAGGG G G G A A T T $\operatorname{T} G \mathrm{G} G A C C G G G G G G G G A A G G G G A A A G A G C C A A G A A A C$ A G A G A A A C C G G A G A G G A G A G G A A C C G G G G A A A A G G A A A A A A G GAAGGGGGGAAGGGGGGAAAAGAGGAAAAGGGGGGAAGGGGA AAACCGGGGAAAAAAAAAGCAAGAAAAAACCAGAAGAAGACG AAAAGCCAAACAGGAGGAGAAGGAAGACCGAAACAGAGAATA G G GCAGAGGAGAAAAAAAAGAGGGGAAAAAGAAAAGAGACAA
 G G GAAAAGGGGCCAAAGAAAAGGAAGGAAAAAAAAGAAAGAA

A G G G G A A A CAA $A \operatorname{AGGGAAAAAAGGGGCGAAGAAAAGGAAGGGG}$ G A A A A A G A A G A TAA A A A A A A A A A A A C C GAA GA G GA GAAC GA G G G A A A G G G GAGGGGGCCAAGGGGAGAAAGGAGGGGAACAAAA G G GAGAAGGAGGAAAAAAGGAGGGGAGAACCGGAAGAATAAG G G GAAAAGGGGGGGGAAAAAAAAACCCAAAAAAAGGGACCCG G G G G G A G G A A A C C G G G G A A A A G G G G G G C C G G A A A A G G A G A A G A G G A A A A A A A G A A G GAGAGAGGGAAGGGGAAGAAAAGAAAAG $G G G C C A G G G G A G G A A A A G G G G A G A A G A A A A A G A C A A A A A C C G$ A G G A A A A T TAA A G G A G G A A G G A A A A G G GAAA $A$ A G G G G T T A A A ATTGGGGGGGGAACCAAAAGGCCGGGGAAAAAAGGGGAACCG

 G G G A A C G A A G G A G G GAGCAAC GAAAAAAGAGAAAAAAGACGG A A A A A A A A A G G GACCAAGGAAGGAAAGGGGAAAGAGGGAAAA G G GA $\operatorname{l}$ GCAGGAAAGCGGGGGGAGAAGGAACCGGAGGAGGGGG G G GAAA A G GAAGGAAAAAAGGAGACACGAAAACAAAAA GAAA G GAACGGGACCGGCCCCGGGGGGAAAAAACCACAAAGAGCCA G G G A G A A C C C A CAG GAAAAGGAAGGAGGGCCGAGGGAAAAGA GAAAAAAATAGGGCCAAAAGGAAGGGACAAGAGCAGAAAGAA GCAGACGCAGAAGGGGGGACGAGGGAGAAGGTAAAGGGGGAG GAAGGGAGGAACCGAGAGAGGGGGGCCGGAAGGAGAAGAGGG G G G G G GAA $A \operatorname{GG} A A A A C C G G G G G G A A G A G A G G A G G G A A A A G A A$ A A G GAGGCCAAGGGGAACAGAAGAGAGAAAAGGGGGGGACAC C G G G G G G C C G G A A G G A A G G G G A A G G G G G G G G A A A A A A A A C C G GAAAAGGCCGGCCAGAGAAGAGGTTGGGGGGGGAAGGCAAGA G GAAAGGCCAGGAGACCCCGGAACCGGGGAAGAGGGGCAAGA A GAGGCCAGAACAGGAGGGGAGGAGACAAAAGAAAGAAAAAG A A A A A CAGGGAGGGGCCAAGGGGGGGGAAAAAAAGCCAAAAC CATAAGGCAAAAAGAAACCGGACCAAAGGCCAAAACCAAGEC C G G G GAG GACCGGAAGGAAGGAAGGAAAAACGAGGACCAGGG A A G G G A C A $\mathcal{A} G G G G G G G G G G A G A A A A A A C X A A G G G G A G A G A A A$ GACGAAGAACAGGGGAAGGCAAAGGAAAGGGCAAAAAAAGGA AACAGGGAAAGGAGACCGGAAGGGAAACACGGAGAGGAAAAA A A A A GA A G A G G G G G A A A A A A A A A G GAAAAAAA AAA AACA G GA A A A G G A A A A A A A A A G G GAGAAGGCCAAAAAAAAAAA AAAGAAG GCCGGAAGAACGAGGAAGAAGAAAGAGAGAATTGGGGCAAAA AAACCAAGGAAGGAAAATAAAAAAACCGAAGAGGAAGAAAAG A GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAG AAAACGAACCACAAAGGAGACCCAAAGAAAGAACCGG
A G GAA A A G G GCCAAAAAAAAGGGGAAAGAGGGGACAGGAAA G G G G A G G G GAGAAGGGGCCGGCCGGAAGGAAAAGGAAAAAAG $G C C C A A A A A G G G G G G G G A A C A G G A G C C G G G G A A G G A A A B A A G$ G GAGAGGAAGAGCAGCAAAAGGGACCAAGGGAAAGGAAACCA
 $A C C A G C G C C G G G G A A A A A A G G G G C C G G G G G G G G G G C C A B A A G$ G GAGGGGAAAGCAAAAAGAGGGCAGGACCAGGGAAAGAAAAC C GACCGAGGAAAAGAAAGAGGAGGGGGGGGGAGGAAAGAAAC $C \subset C A A A A A G G C G G C C G G G G C C G G A A C C G G A A A C A A A G G A A G G$ G GAAGCCAAAAGGAAAGGAAAGGGGGGGGCGAAGAAAAGAAA A A A G G GA $\operatorname{A} G \mathrm{G}$ GAAAATAAAAAAGAGGCCGAAGAGAGCAAACAG GAAACGGAGAGAAAAGGGAGGGGGGAGAACCATAACCAAAAC CAAGGGGAAAGAGAGAGGGAGAAGACAGGGGAAAAGAAAAAA A A A G G A A A A G G A A C C A A A A G G G G A A G G G G A GAAA A A G A G A A A A GAGGCCGGGGAAAAAAAGAGGGAAAACAAGCCAAGAAAGAA $A C C G C C C G G G G G A G G A G A G A A A C A G A G G G A C G A G A G A G A A G A$ A A G A A A G A G G A A G A A G GCCAGCAGGAGAGGGGGAGGAA G GA G G G A A G G G G G G A G G G G G G A A A A $\mathcal{A} G A G G G G A G G G A G A A G A A C C G$
 G G G G GAAAAGGGGAAAGAAAACCGGCAGAAGGAGAGGGGAGA

GAAGGAGGGAAAGGAAGAATTAGCAGACGGGAAGAAACAGAG A GAGGAGCCGGGAGAGGGACCAAGGAGGAGGCCGGACGAGBA A G G G G A A A G G GAAC CAAAAGGGGGAGGGAAGACAAAGAGAAGA $A G G G G G G A G G G G G A A G G G A A A A C A G G G G G G G A G A G A G G A A G G$ AAGGGAAAAAAGAACGGACAAAAGGCCGGAAAAGGGGAGCAA $A G G G G G G A A G G A G G G A G G G G G A A G G G G A A A G A C G A A G G A G A A$ GAGGGAGGAAGGGAGAGAAAAGGAGAGGGGACAGAGACAGAG G G G G G G G T T GAGGCCGGGAAAAAGGGGGGCCGAGGAAAAAAA A A G G G A ACCA GAGAAAACAGACAAAAAGAAGCAAAGCGGGGA $A C C G G C C G G A G A A G G A A G G G G C C G G G A G G A A G G C C C C A A A A C$ CACA C G G G G GAGGAAGGAAGGAAGAAAAAAGAAAGCCGGCCA $C G G A A C C A G G G A C A C C G G G G G T T A A C G G G G G A A G G G G A G C C A$ A G G A G G A G G A G G G G A C A A A G G G G A G G A A G G A A G A C C A A GA G A G GAGGCCAAGGGAGGCCAGAAAGAGAAGGAAAACCAAAAAAA ACCGGCCAACCAACCGGAAAAAAAGACAAGAGAAAAGGGCCG G G G G G G G G G T T A A C C A A G GA $A G G G G G G G G G G G G G G A A A A A A T$ TGAAGAGAAAAAAAGGGAGAGAAAAGGCAAAAAGGGGAAAAC CAAA $A$ A A A A A A A A G GCCGGAAAAAAAAAAGGGGGGGGAGAAC C G G A A G A A G G GCC G G G G G G G G G G A A G G C C A GAC G G G A A G G G G A A A A A G G G G A G G G A A G G A A A A G G A A A A G G G G G G A A A A A A T T G A A A A A A G G G GAATAGCCAGCAGAGGAGAACCGGAGAGAACCA ACCCCAAAAGAAAGGGGAAGGAAAAAAGGGGAAAAAAAAAAA A G G G G A A G G G G G G C C A G A G A GAAAGGGGGGGGGGAAAAAAAA A GAG $A \operatorname{GG} \operatorname{GA} A A A C C G G A A G G G G C A G G A G A G G G A G A A A A A A A G A$ T G A A G A A A GAA $A \operatorname{GG} \operatorname{G} A \mathrm{G} G A C G A G G C C C C G G A A A A A A A G A G G A G$ G G GCCGGCAAGAAACAAGGAACCAGGGAGAGAAAGCCGGAGG G G GAA A A G GAAACGCGGGGCCAAGGGGGAAGAAGGCAGAAAC CACAACGGAGGGAACGGGGAGGGGGAAGGGGCAAGAAGGGGA A GAGAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAA $A C C A G G A G A G A A A G G C G A G A A G A G A A G A A G G G A A A A A G A A A A$ ACCAAGAAGGACCCCGGGGAGAAGAAGAGGGGGAGAGCAAAA GAAGGAGGAGGGGAGGGAGAGAGGGGGAGAGGGCCAGCAAAA A G GAAAAAGGAAAGGAAGGAGAAAACCGAAGAGGGCCAGAGG GAAGGAAGGGGAAGGGGCCAGGAGACCAGAGCCGGAAGAAAG GAGAAAAAAAAAAGGGAACAAAAAAAAAACCGAAGCCBGACG AAAGGAGGAAAGAAAGGACGGAGAAAAAAGGGGCGGGAACAA AAAAAAAAGGAAAGGGGACTAGAGAGGGGAAAAGGAACAGGA A G G G GAA G GAAAAAAAAGACCAAGAGAGGAAGGGAAAGAAAC C C C A A G G G G G G G G A A C C G GAAA A A A G G G G GAACC C G G G G A G G A A A G A G G G G G G G G A A A A A A A G G G G A A G G A A C G C C A A G G G G G G G GAAAAAGAGGAAGGAAAGATTGGAGAGAAAAGAAAGGAAAAG GGGAGGAACAAAGCCGAAAAAGAAGACACAGACAAGAAAGAG AGGAGCAAAGGAAAGGGGGGGGAGAAACCGGAAAGGAGAAGAA AAAGGAAAAGAAAAGAAAAAAGGACAAGGGGGGGGAACACAG G G G A G A A A A A A A G A G TAAA $A$ G G GAAAATAAACAACCGGCAAA G GAGGGTACCGGGAAAGAAAGGGGGACGGGGGAAAGGGAACXT TGAGAGAGGAAGAGGGGTAGGAACAAGGGAAGACCBAAAGAG G G G G GACGGAAGAAGAGGGCCGGGAGGGAAGGGAAAAAAGAA AAAGGAAGGGGCAAGGAGGAGAAAGAAGGGGAAGGGGGAGAA G G G A A GA $\operatorname{A} A A A A A G G G G G G A G G G A A G G A A A A A A G G G A G C A A A C$ C G GAAAGCCAAGGGGAAAGGGGGAGAAGAAAAAAAGGAAAAA G G G G GAGGGGGCCAAGGCCGGAAAGGAAAGGAGAAGAAAAAA $A C C G G A A T A A A G G G A G A A A G G A A G G G G G G A G A A A A A G G A A G G$ GAGCAAAGGGGAAAGCCGGAGACAAGGCCGGAAAAGGCCACG

 G G G G G GAGAAAACAGGAAGGGGAGGAGAGGGAGAAGAAAAAG G G GAGAAGAGGAAAACCGGGGAACAGAGAGGGGCCGGGAAAA AGGAAAGCCAAGAGAGAAAGAAGAGAGACAAGACAGAAACCC

A A G G A A A G A G G G G G GAGGGGGAAAAACGCGGAGCAGGAGGAG A GAGGGGGACCAAGAAACGCAAGAAGGAAAGAGAACACAGGG GAAAAAAAAAAGGAAAAGGGGGGGGGGGGGGAAAAGGGGGGA $A C C A A A A A A A A G G A A C C A A G G G G A A A A A A A A G G C C C C A A G G G$ GAACCAAGGAAGGCCGGAAGGGGGGAAGGAATTGGGGGGGGA A A A A A A A G G A A A A A A G G A A A A A A A A A A A A A A G G G G G G G G T T C C C C A A G GCCCCCCCCGGCCGGGGGGAACCGGAAAAAAGGGGA A G G G G G GAAAACCAAGGAAAAGGAAGGGGAAGGGGGGAAGAG G G G G G A A $\mathcal{A} G G G A A G G G G G G A A A A G G A A A A A A G G G G C C G G G G G$ G G G G GC C G G G G G G A A A A A A A A G G G G G G G G G G C C T T C C G G A A G GAAGGAAGGCCCCAAGGGGGGGGGGCCAACCAAGGAAGGGGG G G G A A G G C C G G G G A A A A A A A A A A A A GGGGAAAAGGAAGAAAA ATTGGAAAAGGAAGGAAAAGGCCAAAAGGAAGGAAGGGGCCG G G G G GAA G GC CAA G GAAAAAAAACCGGAAGGAAGGCCAACCB

 $A G G A A G G G G A A G G G G G G G G A A G G G G G G G G G G G G G G G G G G G G G$ G G G A A T T A A G G A A C C G G A A G G C C G G G G A A G G A A G G A A G G G G G GAAAAGGCCGGAAAAGGAAGGAAGGAAGGAAAAAAGGCCCCG GAAAAGGGGGGAAGGGGAAGGCCGGAAAAGGAAGGAAAAAAG GAAGGAACCAAAACCGGAAGGGGGGCCAAGGGGGGGGGGGGG GAAAAAAGGGGAAGGAAAAGGGGGGAAAAGGGGAAGGAAGAA $A G G G G A A G G G G A A G G G G G G A A A A G G C C A A A A A A G G G G G A A A A$ A G GCCGGAAAATTCCAAGGGGAAAAAAAAGGGGGGAAAAAAG G G G A A A A G G G GCCAAAAAAAGGGGAAGGAACCAAGGAAAAGGG GAA A G A A G G G G G G G GAAAAAAAAAAGGAAGGAA G GAAAAAGGC C G GAAAACCGGAAAAAATTAAGGCCGGCCAAGGAAAAAAGGA A G GAACCGGAAAAGGGGAAGGAAAAGGCCAAGGGGAACAGAA

 C G G A G G A C G A A A G G A G A G G G G A A A G A GAA $A \operatorname{A} G A G G G G A G G G G G$ G G GAA $A$ A A G GAAAAGGGACGGCCAAAGGAGGCCGACAAGGGA

 A A A A A G GCAAACCGGGAAACCAGAGGCGGGGAAGAGGGAGAA G GAGGGGGAAAGGCCCCCCGGGGGGAAAAAAAAGGGGAACAA G GACGAAAGGAGAGGAAAAGGCCAACAGGGGAAAAAAGGGGA A G G G GAAACAGAAGGGGAGGGGGCCGACAGAAGGAAGCAAAAA A G A C A A $\mathcal{A} G G G A G G A G A C A G A G A A G G G G A G G G A G A G A A$
$A G G G A G G G G G G G G G C C G G G G A A G G G G A G G G G G G G A G G A G A G$ GAAAA A $A$ A A G GA A G GAAAGGTTTAGAAGGGGGGGAAAAAAGAA
 GAGAACCGGGGAAAGAAGGAAGAAAGGGGGACCGGAACCGGG G GAGGAAGGGAGGAACCAGACGGGAGGCAAAAAGAAAGACAA G GAGGGGGAAGGAGGGGAACCAAAAAGACAAAAAGGAAGGGA $A C A C C A A A A A A A A G G G G G G G G A A A A A A A A A A G G G G G G G G T T G$ $G G G A A A A G G C C A A A A G G A A G G G G A A A A G G A A A A C C G G C A A A G$ G G GAAAACCAAAAAAGGGGGGGGAAGGGGGGGGGGGGGAAAA AGGGGCCAAAAAAGGAAAACCCCGGGGGGAAAAAACAAAAAA AACAAGGGGAAAAGGAACCGGCCGGAAAAAAGGAAAAGGGGC CAAGGAAAAAATTAAAGAGAAGGATGAGGGGCCGGAGGGGCA
 G G G A G G A A G A GCGGAGAGGGAAGGAGGAAGGAAGGAAAACCA AACGGAAACAAAGAGAAAAAGCCAAAAGGAAGAGGGGCCGGG GAGGAAAGAAGAAAAAGGGAGAAGGAGAAAGAGCAGGATAAG G G G G G G G A GAGGAAACAAACAAGGGGGAAAGGGAGAAAAAAA GACGGACAAAGGAAGGAGGGAAGAGAAAAGGGGTTGAAAGAG G G G A G G G G A A A GAAC G GAAA A GAAAAAGGGGAGAAAAAAGAG GAAAAGGAAAAGGAACAAGGGGGGGCCCCAGGGAACAAAGAG

A G GAACCGGGGAAAAGGAAGGAGAGAGGAGATAGGCCGAAAA A A G G G A A G GA G A A G GAAAGCCCCGGAAGGGAAGAAGAAGAAA A GAGAAAGGAACCGGGGAAGGAATAGGAAGAGGGAAAGAACA C GAGAGAAGAGAGGGCAAGGGGAAAAAAAGGAAAAAAGAAAA
 G G G GAGGGGAAGGCAAAGGAGGAAAAAGGCCAGAAAGGGGAG A G A A A G G A GAA $A$ A $A \operatorname{GG} \operatorname{GA} A G A C A A A A G G A C A G A G A A C C A G G G G$ $A G G A A G G G G A G G A A A G G G G G G G G G G C C A G G G G G G A A A G G G G A$ A G G A G G A G G G G G G A G A A G A A G A A A G G G G G A A G G G G A A A A G G A AGGACGAAAAACCGGGAGAGAGAGGAAAGAAAAGGAAGAAAG A GAAAGGGAAACCATCCAGAGGGCAGAAAAAGAGAAAAAAAA AGGCCGGAGCAACAAGAAAGGCAAGGAGGCGGGAGAAAACAG GAAGAAGAGAGCCGACCGGGAGGCCCAAAAGGGAAAGGAAAG GCAAAAAAAAACCAAAAAAAAAAAAAAGGGGGGAAAAGAAAA $A C C A A A A A A A A A A G G G G G G C C G G A A A A A A G G A A C C G G G G G G A$

 CAACCGGGGGGAAAAGGGGGAAGAAGACAAGGGGGGGGAGAA A A GAGAGCGGGAAAGGGGGAAGAGGACAAGGGAGGGAAAGGG GAAAACCGAGAAAGGAAGGAAACCCAAAAAAGGGGGAGAGGA AAAGGAAGGAGGGGGGAAGAAGAGGAGAAGGAAAAAAGAAAG A G GAGGACCCGGAAAGGAAAAGGGGCCGAGAACAGAGAGCCG GAAAAAAAGAGGAAAAAAACCGGAGCAAAGGGGACCAAAAAA A G A A A A A A A A ACCGGCCAAAAGGAAAACCAAAGAAAGAGAGG $G G A G G G G C C A C A A G G C C G A A G A A A G G A A G G G G G A G A A G G G G G$ G G G A A A G G A A A A A A C G A GAGGAGAGGGCCAGGGAGGGCAAAA G G G G G G A A G GAGGGGGGAAAAGGAAGGCAAAGGAAAAAAGGG G GAGGGGAACACAAGAAAAGGGGAAAGAAGGGAAAAGAAAAC A G A A A A A A A G A A A A TAGGGCACCACGAAAAAAAAAAAAAGAA AAAAGGGGGGGGGCGAGCCAAAAAAGGAAGACACCGAAAAAG G G GCCAGAACAGGGGGGAGAAAAGGGGAAGAAAATCAAGGAC $C G G A A A A A G A G G G G A G A G G G G G G G G G G C C A A A G A C G A A A A A A$ A A A A A G GCCGGAGACGGGACAGAGAGGAGGAAAATAACCCCG A GACCGAGAAGGGGAAAAATTCCCCGGAGAAAGGACCTTGGG GAAAAGGAAAAGAAAGGAACCGGAGGAAGGGAAAAAAAAAAA
 CAACAGAAGGAAGAAAGAAGGGGGAAAGGAAAAAAGAAACAC ACAAGCAGGAAAGGAGAACAAGGGAAGGCGGAAAGGGGGGGG GAAAAGGAAAGGACCAAAACCAAAGAAACGGAAAAACAACAG AAGCCAGAAGAAAGGGAAAACGGGGAAAACCAAAAAAAAAAG $G G A G G A G A A G A A G G G C C G G G G A A A A G G G G G G A A C C G A A A G G C$ CAAAAGGAATTGGGGAAGGGGCCGGAGGGAGAAGGAAAGAGC $C G G C G A C A A A A A A A A A G A A A A G A G A G A A A G G A A G A C A C A C A A$ A G G G G A A A G G G G G C A G G A A A A A A A A A A GAA A G G CACA GA G G C CAAGGCCGGGGAACCCAGGGGGAAAAGGGGGAAAGAAAAGGG GAAGAGAGGAGACAAAAAGAACAAGAGGAGAAGGGAGAAAAG GAGGAAAGAGGAACAAAAAAGCAAAGGCCCAGAGGGGAGACG ACAAAGACAGGGACCCCCAAACAGAAGGGGGTAAGGACCGGG G GAAAACGGGGAGAAGGAGAAAAGAGGGAAGAGAGGAGAGAA GAGAGAAAAGGGGGGTTAAAACCGGAAGGGGGGAAGAGAAAG GAAAGGGAAGGACAAACGGGAGGGGGGCCAAAAAGAGAATXG A G G GAA A A GAACAAAAAAAAAGGGGAAAAGGACAAAGCGGGA A A G G A G G G G C C A A A A C C G G G A A G G G G A T A G G G G G A G G G G G A G A AAAGGGAAGACATTAAGAGGGGGAAGGGAAGGAAAGAGAAG GAAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGAA GAAGAGGAAAGGACAGGGACAAGAGACGGAAAAGGAGCAGAA AAAGAGGAGCAGAAGGGGGAACAAGAAAGAGGGAAAGAAAAA A G GCCAAAAAAGGGGAAAAATGGGGGAGGGGAAGGGAGAGAAG $G G A A A G G G G A A G G G G G A A C G G A A A A G A G G C C G G A G G G G A G A A$
$C C C T T G G A A A G G G C A G A T T A A G G G G A A A G A G C A G G C C G G G G G$ G G GCC G GAGAAGGCAAACCGGAAGAGAAACCGGGGGGCCGGG G G A A A GAACAAGGGGAAGGCCAACCGGCCGGAGGAAGAAAAA G G GACAAAAAGGGAAAAGGGAAAAAGAGGGGCAGAGAAAAAG G G GAGGGAAGGGACCAGAAAAGGGGGGCCGGAAGGGAGAAAG GAAGGAACAGGAAAGGAGGGGAAGAAGCCACGGAAGAAACAC CAACAACGGGAAGGGGGAAGAGGAGCCAAGGAAAAAAGAAAG AGACCAAGAAAGAAAAACCCCGGAGACGGAAAAAAAAAGGGA A A C A A G G A G G G A A G G G G A A G A G G A A A A G G A A G G G G G A A C G G G G G G GAAGGGGGAAGAAGGGAAAAAAGGAGGGAAACGAAAAAG G G GAGGGAGAAAAAAAAAAGGGGAAAAAAAACCAAGGCAAAA G G G G G A A G G GAA $A \subset A A G G A A A A A G G A A C A A G A A A G A G G A C C A$ G G G A C A A A A G G A A A A A GCC G GAACCGAAAGGAGGAGGCAAAA A A A G A C C A G G A G G G G G G G G G G G G A A A A A A G GAA A GAG GAC C A A A A G G G A A A A A G G A GAGAA GACAGAGGAAAAGGGGAGGAGAA G G G GAAAACACAACCGGAAGGAAGGACAAGATAAAGAAAGGG GAAACGGAGGAAACACGAAGACACCGGAAAAAAAGGGGAAGG G G A A A A G G G G GAACCCCAGCCAGAAAAGGAAGGGGAGCCGGG GAGGACCAACAAGAGAAGAAAAAAAGGAACCACAGGAAAGAG $A G G G G C C G G G G A A G G G G G G C C G G G G G G A A C C G G G G A G A G G A G$ AGGAAAGGGGGGGGGCAAACAAAAGGAGGAAAAGGAGGGGGA A G G GAA ACCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAGG GACGGAGAAGGAACCAGAAAGAACCCCGAGGAAAGCCCAAAC $A G A A A G G C A G G A A C C A G G A A G G G G G G G G A G G G G A A A A A C A G B$
 G G G G A A G A G G G A A A A G A G G G G G G G G A A GAA A A A G G GA GAA $\mathcal{A} G$ AAAGGAAGAGAGAGGCCGGAAAGGAAGAAGGAAAGAGAGAGG G G G G G G G G G G G A G A A G G A G A GAGAGGAGGGAGAAA GAA GA G A A G G A G A G A GAGGACAGAAACCAAGGAAGGAACCAAAAAACAA G G GCCAGGGAAGGGGGGGGAGGGCAAGAACCGGAAGGGGGGG GCCAGAAAAAAGAGGGGAGAAAACCAACAGAGAGAAGABCAA G G G G GAAGAGACCCCAAAGCCCAACGGAGAAAAGGAAAGAAA
 GAGAGAGGAGGAAGGCCAAGAGGAACAGGGGAGAAGAAAAAG G G G A G A A A GCCGGGGGAGGGAGGACAGGGCCAAGGAAAAA GA A A A A A GACCACCCCAAAAACCAAAGGAAGAAAAGGAAAGGGA A A A A G G GACAGAGAACCGGAGGGAAGGAGGGAGGGAGACGAG ACCGAGAGGAACCCCAGAAAAAAAAAACCAACCCCGGGAAAA GAAAGGGAAGGGAAGCCGGCACAGGGGAAAAAACAAG
G GCCGGCCGGAAGGAGCGAAAGGGGCAACCGGGGGGAACAG GAAAAAGCCGGAAGGCAGGGGGGGGAAGAAGGGAAAACAGGG GAGACAGAAGAGACAGGAGGAAAGGAAGGAGGAGGACAAAAA A G GAA A G GAGAGGACGGAAGGGGGGGGAAGGGGAAGAAAAAA A G G G G G G G G G G G G A A A A G G G G A A A A C CAAAAAAA G G G GCC G G C C C C G G A A C C G G G G T T G G G G G G A A A A A A A A G G G G G GC CAA $C$ C A A G G G G A A A A A A G G A A G G G G A A G GAAAAAAAAAAAGGCAAACAA
 A A A G G G G G G A A G G G G G G G G A A A A $\mathcal{A} G G G A A A A G G A A G G G G G G G$ G G GAAAAAAAAGGAAAAGGGGGGCCGGAACCGGAAGGGAAAA A A A G G G G A A A A A A A A A A A A A A G G G GAAAA A C C C C G G G G G G G G G G G G A A G G A A A A C C G G G G G G G G A A C C C C G G G G G G A A G G G G A A G G G GCCAAGGGGGGAAGGCCAAAAGGGGCCAAGGAAAAAAGGA A A A G G G G G G A A G G G G A A A A G G G G A A G G A A C C G G G G A A A A A A A AAACCAAAAAAAAGGAAAAAAGGAAAAAAGGAAAAGGGGAAG GAACCGGGGGGAAGGAAAAAAGGAACCGGGGGGAACCGGGGG G G G G G A A G G G G G G A A A A C C G G A A G GAA G GAAAAAACCCC G A A A G G A A $\mathcal{A} G C C G G G G G G G G G G A A G G G G G G A A A A G G G G G A G A A C B$
 $G C C G A A A A A G G G G G A A A G A A A C C G G A A A A G A A G C A G G A G G G G$

GCCAGAAGGAAAAGAGGAAGAGGAAAGGGGAAGAGAGGAGAC
 A G GAGAAAAAAGAAGGGAGAAGGGAAAAAGAAAAA GAAAAGA AAA A GAAAGAGAGCAGGGGGGAAATGGAAGGAGAAGGCCCCG G G GAA A GTTAACAGAATAGCAAGGAAACCAAGAGAAGGAAAG GAAGGGGAAGGCCGGAGGGGAGGGGAGACGAAAGACCGACCG GAAGGGAAGAAGAGGGGAAAACCAAGGGGAGAAAAACCCGET AACGAAAGGAAGGGGGGACAACCGGGGCAGGGGGACAGAAAA A A A G G GA $\operatorname{A} A A A A A G A G A A G G G G G G G G G G A C A A C G A A G A A C G B A$ GAGGAGGGGGAGGGAGGAACCAAAAGGCCAAAAGAAAA GAAA G G G GAGGCCGGGAGGAGGGAGCAAAGGGGCCGGAAGAAAAAA GAAAACCAAGGGGGGGGAGTTAAGGGGGGAAAGACAACAAGA AAAGACCAACCAAGGAAAAGGAACCAAGAGGGGGAAGGAAAA
 GAAAAAAGGAAGGAAGGAGGAACAGGGGGAAGGGGCCABAAC A G GAAAGGGAACCAAAGAGGAAGGAAGGGAAGAGACCTXAAG A A GACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAGGAG GAACCGGGGGGAAAGAAGGGCGAGAAAGGGAGAGACAAGGGG AGGCCCAAGAACAGAGGAGGGAAGGAAGGCCGGAGGGCAGGB GA $A$ A $\operatorname{G} G \operatorname{GCA} A A G A G G A A A G G A A A G G G G A A G A G G A G G G G A A A A$ G G GAGAAAGAGAGGAGAAGCCGAAGAAGGAAGGGAACGACAA GCAGGGAAAACAAGAAGGGAGAGGGAAGAAAGGGAAGAGAAA
 GAGGGACGGGGAAGGGGAGACGGAAAAAAGGGGGGAAAACCC C G G A A G GAAGGCCAAGGAACCAAACAGAGGAGAAGAACACCA $A C C A A C C A G G G G G A A G A C A G A C A G G G G A A C C A A A A A A G G G G A$ A G G G G A A GAAA A GACAGAGACGGGAAAGGGGACAAGGCCGGA $A G G G G G G C A A G A A A A A C G A A A G G G G A G A A G G A C A A A G G G G G G$ G G G A G G G A A G G A A C C G G A A GAC G C CA G G GAAAAA A G G G G G G G G G G G G G G G G G A GAA A GAGGGAGGAAAAAAAAGGGGGAAAAAA A G G A G A A A A G GCC G G A A A A C C G A A GTTAGGAGAGGG GAA G G T TAACCCAAAGGACAGAGAAGGAAAAGGAAGGACAAACCAAAG G G G G G A A A GAGGAGAAGCCGGAGAGGAAAAGGAA GAA GAGAA A A A A G A A A GA G A G A A G A A A G G G G G A G G C C G G C C A G G G G G G G G GAA A G G G G G A G G A T T A C A A G G G G G G G G G G G A G G A G A G G G A A C CAAGGGGAAAAGGAAAAAAAGGGGAAGGGCAACAGGBAACAA C G GAAA $A \subset A A A C C A A A A A A G G G G G G A A G A C G A G C C A G G A A A G$ $G C C A A A C A A G G A A A A A G A A G G C C A G G G A G A G C C A A A G G G A G G$ A A A G A G A A GCCGGGGGGGAAGACGAACAGGGCCAAGGGGGGA A G GA $A \operatorname{GA} A G G A G A G A A G G G A G A A A A C C G G G G G G A A A G A A G G G$ GAAAAGGGGGAACGGGGGGAAGGGGAAGGCCAAAAGGGAAAG
 AAAGGAAAAGGGGAAAAAAAAAACCAAGGGGAAAAGGGGGGA A A A G G A A G G A A G G A A A A T T G G G G A A G GA GA G G A A G A A A G A G G GAAACAAGAGGGGACGGAGGGGAAAGGGGCCGGGGCCGAGAC C C C A A A A $\mathcal{A} G G G A A G G G G G G G G A G A A G A G G G A G A G G A A A A G A A$ G G G A A A G G A A G G A A A T T C CAGAAAAGGCCGGACAAAAAAAAG G G G G G A A G G G G G G G G G G G C G G A G A A A A A G CAAA A GAACAAAA A G G G G GACAAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAG GAACCGAACAGGGAAACAAAGGGGGAGCCGAGAAGGGGGGGA GAGGGCCAAAGAGAAAGGAGGCCGGCCAAGGAAGGAAAAGAG A G A A A G GCCAAGGGGCCGGGGAACCGGAAGATTAAGAAAGAA A G G A G A A G G A A A G G G A A A G G G G A G G G G A C G G A G C A G A A A G G G G GAAAGAAAGAAGAAGAGGGGAATTAAGGAGAAGAAAGGGAA AAAGGGGAAAGAAGAGGGAAGGAAAAAGAAGCCAAAAGGGGC C G GAGCCGGACCAAAGAGAAACCCCGAAGAGAAAAGAAGGGA GAAAAAAAGACGGGGAAAGGAAGAAGGAAGAGAGGAAGAACA GAGGGGGAAGAAGGAGGCAAACCGGGGGGGGAGAGCCAAAAC $C A C A A G G A A A A G G G G C C G G G G G G G A G G G A A A A A A A G G A A G G C$

CAAAGAAGAAGGGAGAGACGGGGGGAGGAGGAAAGGACAAAA A A A G A A G A C G G A A A A G A A A GGGGCACCCCCCAGACAGGAGAA GAAGGGGGGGAAAAAGGGGAAGAGAAGAAGAAAGGAAGAGGA A G G G G G G G GAGAAAAGGAGAAAAGGAGGACACAGACAAGCCA $A C C A A A G G A G A A G G A G G G G A A A A A A G G A A A A G G A C C C G A G A A$ A GAGGGGCCAAGGAAGGGGACAGAAGGAACAAGAAGGCAGGG GA $\operatorname{G} A A G A G G C C G A A A G G G G G C T T G G A A G A A A T A A A G G G G G G A$ $A G G G A A A G G G G G G T T A A G G G G G G A G A A A C A A A A A A A A G A A A G$ GAAAAAAGGGGAGGAGAAAGGCGATGAAAGAAAGAGGGAAAG G GATTCCAACCAAAAAAGGGGAAGGGGTTGGAAAAAAAAGGG GAACCGGGGAACCCCGGGGGGGGAAGGAAAAGGGGAAAAAAA A A A A ACCAAAAAAAACCAAGGGGAAAACCAAGGGGAAGGGGA $A C C G G C C A A C C A A G G G G A A A A A A A A G G G G G G G G G G G B A A A A C$ C G G A A C C A A A A A A A A G GGGCCGGCCGGGGGGAAAAAAGAAAG G G G G GAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGAACAAAG GAACCGGGGGGAAGGGGAAAAAAAAAAAAGGGGGGAAAAAAAA A GAGGAAGGAAGGAAGGGACAAAAAAAGGCAGGCACCCAGAA
 A A A A A GAAAGGAGAAAAAAGGAAGGAGGGGGGGAAGGGAAAG G G G G G A A G G G GCAACGGAAGAAGCCCCGAACAAAAGAAGGGA GAACGAACGGAGGGGGGGAAACCGGAAAAAACCGGAAGGGGC CAAAA $A \operatorname{A} A A A A G G A G C A G G A T A G A G A G A G G A G G G G G G G C G G G$ A G G G G A A A C A G GAGGAGAAGGAGAAAGAGCCAAGGCCAGAAG GAGAGGAGAGGCCCCGGGGAGAAGGGGGGGGAAGGCCGAAAA A G G G G G G A A G G G G G GAGAGCCAAAACCAAGGAAGGGAGAAAC CAACCGGGAAGCCGGATAGAAGAGGAGCAGGGGGGGGACCCA G GAGAAAGGAAGGACGGAAAAGGGGGGGGGGAAGGGGCAGAA A A A A A G GAACCGGACGAAGGAGAGGCCAAAAGAAAGGGGCCAA ACCCCGGAAGGAGAAAAAACCAAAGAAAGAAGGAGAAAAAAA A A A A A A A GAGGAAGACAGAGGGGAGCCAGCCGGAGGGCACAA A A A A A A A G G G GCAAAAAAAACCAAGGGGAAGGAAAAAAGGGGG $G C C A A A A A A G G A A G G G G A A A A A A G G A A A A A A A A G G A A G A A A A$ AAAGGGGAAAAAAGGAAAGAAAGACAAACCAAACCAAGGGGG GCCAAAAAAGGGGGGAAGAGAAGACGGAAGGGGAGAAAAAAC C C C A A GA G GCCGGCAGAAAAAAACCAACAGGCACAGGGGGGG GAAAGGATTGGAGCACACAACGGGAGGAACCGGGGGAACGAG $A C C A A A A G G G G G A A A A A A G A G G G A A C C G G A A C C G A C A A A A A G$ G G GAAAAAGAGGAGAAAAAAAGACCAAAGAAACAACACCGGA CAGAACCGGGAAGAGAAGGAAGGAAAAGGGGAA GAA G
A A A A G A A G A A GAGAAGAAGGAGAACGCGAAGGGGGGAAAGA GAAAAAAGGCCACGAAACAAAAGGGGGGGGAGGGGATAAAAA
 GAACAAGACGAGGAGAGAAAGAAAGGAAAGACCAGACGAGGG GAACCGGAAAAGGAAGAAAGGAAACAGTAAGAAGGAAGAAAA A A A A G G A A G C A G G G A A A G G A A G G G G A A A A G A G A A A G G A A G G G A CAG $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C A A A A A A G A A A A G G G A A G A G G G A G A C A G A A A$ GAAGGAAAAAACCACGAAAAAAGGGAAAAAGAAAACCCCGBA AAAAAGGAGAGGAAACCAAAGAAGAAATAAAAGAAGGCCGGC CAAGGGGGGAAAAGGAAAACAGAGACAAGGAAGGGAAAAAAA A G GACGGAAAGGAAAGGGGGGGGAGAAGGAAGCGAGGAAAAG GAAAAAAAAGGAAGGAAAAAAAACCGGCCAACCAAGGAAGAA $A G G C C A A A A G G G G A A G G A A G G G G G G G G C C A A A A G G G G G A A A G$ GAACCAAGGAAAAAAGGCCGGCCGGAAGGAAAAGGAAGGGGG GAAGGGGAAAAAAGGGGGGGGGGGGAAAAGGGGAAAAAAGGG GAAAACCAATTAACCGGTTAAAAGGGGCCGGGGAAGAAAGGG GAAGGCCAAAAGGAAAAGGGGGGAAGGGGAAGGTTCCGAAAA A G GCCAAAAAACCGGGGGAAGGGGCCGGGGGGGGCCBAAAG GAAAAGGAAAAAAAAAAAAGGCCGGGGAAAAAAAAGAAAAAG $G G G A A C C A A G G A A G G G G A A A A G G A A A A A A T T A A G G A A A A G G G$

GAAAAAAGGAAGGGGAAGGGGGGAAAAGGGGAAAAAAGGGGA A A A G G G GCCGGAAGGAAAAGGGGCCAAGGGGAAGGGAAAGGG GAAAAGGGGGGAAAAGGCCGGGGAAAAAAGGAAGGAAAAAAC C G G G GAAGGAAGGGGAACCAACCGGGGAAGGGGAAAACAAAG GAAGGAAGGGGCCGGGGAATTAAAAAAGGAACCAAAAGGGGA A A A G G A A C C G G A A A A G G C C G G G G G G A A G G A A G G A A C C G G G G A AAACCAAAAAAAAAACCGGAAAAAAAAGGGGAAGAAAGGGGG GAAGGGGAAGGAAGAAAGGGGGGAAGGGGGAGAAAAGGAAAG AACAGGGAAAAGGGGGAACGGAAGAAAGAAAGACCAAAAAAG G G GAGGAACGACAAGAGGAGAGAAGCAGAGAGAATGAAAAAG $G C C G A G G G A A A A A G G A A A T G G G G C C G G A G G A C A A G G A A A A G G$ A GAA A GACCGAAAGGAAAGCCCCAAAAGGGGAAGGGGGAAAG A G GAAAAGAAAGAGGCCGGCCGAGACAAAAGGGCAAAAAAAA G G G GAGAGGCCGGAGAGGGAAGAGAGAGAGAACGGAAAAGGA G GAAGAGAGGAAGAAAAGGAGAGGAAAGAGAAGGGAGAGGAG AA GACATAGAGAGGAACGAGGAGGAAGGAGAAAGGGGCAGAA A A A A G A A A A G G G G A A A A G GAGGGGAAAGGAACGCCAA GAACC CAA A GAAAAGGAAGGCCAAAACAGGCCGGGATAGGAAAAGAA C G G G G G G A A A A G G C C G GAGGGGACCAAACGGCCAGCGGGGGA
 $A C \subset A A G G A A A A G G A A G G C C A A A A A A G G G A G G A A A A A A A G A G G$ GAAAGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G G G G G G A A A A C C G G A A G GAAA A A G G G G G GAC C G GAA A G GAAGGAAAGGAAAAGGAACCGGCCAAGGAGAGCCGAABACA G G G G A GACCGGGGAAAAGGAAGAGGGAAAGGAGBAAACAA GA
 G GAGAACCCAGAAAGGGCCCCGGAACCAACCAAGGGGGGGAA A G GAACCAAAAGAGGAAAGGGGGCCGGCCGGGGGGAAAGGAG GAGGGGGGGGGGGAAAACCATAGGGCGAAAAAAAGAGAAAAG GCGAGAGGGCCCCACAAGGAAAGGGGGCCGGCAAGGGGAGAG AAAGGAAAAGGGGGGGGAAAAAGGAAAAAAAAGAAAAAGGAG GAAGAGAGGGGGGAAAACCGGGGAAAAAAGGAAGGAAGGGGA A GAAA A GACGAGGGGAAGGAGGGAGAGAGAAAACCAGAAAGG GAGGAGGACACAGGGCAGGAAAAAAGGGAGAAGGAAGAAAAG GAGAAAGGAAGGAAAAAGGCCACGACCACGGGGGGGGGACAA G G G A A A A G G G GCC G G C G G A G GCCCCAGGAAACACCAACAAG G
 G G GAACCAGAAAAAAAAGGGGAAAAAGGAAAGGCAAAAGGGA G GAA A G G G A C C A A G G C C G G G G A A A A CAAAA A A A G G G G A A G G A $A G G G A A G G G A A A G G G C C A A G A G G A A G G A A A A A A A A G G A A G G G$ $G G G A A A G A G G G G G G G G G A A G G A A A G C C G G A A G G A A G A A G G A G$
 A G GAAAAAAGGAAGAAAAAAGAGCCGACAGAGGAGGAGGGAA CACGAACAAAGACAGCCGGATGGAGAGAGAGGAGAAGABAAG A G G GAGGGGAGAAGGAAAAAAAAAAAAAAGGAAGGGAAAGGA
 GAAGGAAGGGGAAAAAAAAAAAGGGGGAAGAAGCAACGGGGA A G G G G A GCCAGGGGGGGGGGAAGAAGGAAAAAAAGAATAAGC C G G G G G GAAAACCAAAAGGGGATAAAGAAGGAAAAAAGGCCG G GACCGGGGAGAGGGAAAACCAAGGGGAGCACCAGAAAAAAG A G GAA A A A GAGGACCAAAAAGCCAAGAAAGAAAAAAAAAAGG AAGGACCAAAAGGAGGGAAGAACGACCGAACGAGAGGAAAAA A A A G G A A G G A A A G A G A A A A G G C A G G G G A A G G G G G G G G A G A A C
 A GAAAAAAACAAAAAAAAGAAAGGAGGAAGGAAGGGAAAAGAA G G G A A A G A A G A GAAAGGAACCCAAAAAGAGAACGGAAGAAAA GAGCCAAAAGGAGCCAAAAGACAGGAAAGAAAAAAAGBACAG
 $G G G A A A A A G A A C C A G C C A G A A A G G G G G G A A A A A C C A A G G G G A$

A G GAGAAAACAGGAAAAGGGGAAAGTAAAAGGGAGGGCAACA A G G A A A A G G G GCA G GACAGAAGAGAGAAAGGCAGGGGAAGAA G G G A A GAAAAAAGGGAAAGGGGAGAACGGAAGGGGGGGAGAA G G G G G G GAGCGGGAACAAAGGGGGGAACAAAGGGGGAAACAG G G G G G A A A A G G G G G GAAAA A GAAAAGGAGAGCCGGACC G GAA GAAGGGGAAGGAAAGGAAAGAAGGAAAACAGACCAGAAGGGG
 GCCGGGGAGAAGAGAGAAGAACCCAGAAGAAGAGGAGACGGC CAAAAAGGAAGAACAAGGAAAGGAAAAGGAAGGAAAACCGGA AAACCCCGGAAGGAAAACCAACCGGGGGGGGAAAACAAAAAA A G G A A G G A A G G C C A A G G G G G G G G G G G G A A G G A A A A G GAAAA A GAAG $A \operatorname{AA} A G G A A A A G G G G G G C C A A G G G G A A G G A A A A G G C C G G G$ GAAAAGGAGAAGAGGCACCGGGAAGACGAAACCAAAGGGGGA G G G G G G GAAAACCGGCCAAGGGGGGGAGAAAGAAAGAGAAAA AGGGGAACCAAGAGAAGACATAGAACACCAAGAGGTTAAATG
 AAAAAAGGGGAAACCGGGCAAGAGAGGCCACGGGGGGAACAA GAAGAGGGGGGGAAGTTGAGGAGACAGAAGGCCCCACAACAA GAGAAGAAGAACGCCGAAGGATTCCCCCAAAAGCCCCAAAGA A G GACAGCCGGGGGAGGGACCAGAAGGAACCGGGAAAAGGAC CAGTAAAGGGGAAGGGGGAGGGAGAAAAGCAAGGGCAGAAAA
 A A A G G A A G A GCGGGAAAGGACGGGGTTGGACGGAGGCABAAG GACAACCAAAAAAAAGGGGAAAAAGAGAGGAAAAA GAGGGGA
 AAGAAAGAGGAAGGGAGACAGGGGAGCAGAAGGGGAAAAAGA GAAAAAAGAGGAAAAAACCAAGGAAGGAAGGAAAAGGGAAAG GAGTTGGAAAGGACCCCAGCCAAAAGGGGGGGGAGGGGAAGA G G G A G G G A G G G A A A A G G G G A G G G G G A A GAGGAGGGAAAAAAA A G GAGAAGGGGAAGGGGGGAAAAAAAAGAGGACAAGGCAGGA G G G G A G G C C A A G G A A G G A A C C A A G G G GAAACAAAC GAAAAAA AAGAATTAGTTAAAAAAAAAGAAAAGGAAGGCCAAG GAATTA A A A A A G A G G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A AAAAACCAAGGGGGAGACCCAAGGGGGGGAAAAAAAGGGGGA C GACCAAAAAAGGCCAAGGCACCGGGGAAAAGGAACCGAAAG
 ACCGGAAGGAAAAAAGGGGGGAACCGGAAAAAACCGGCCGGA A G G G GCCAAAAGGGGGGAAAAGGAAGGGGCCAAAAAAGAAAA A G G G G G GCCGGGGAAGGGGCCCCCCAAAAGGAAAAGG
G GAAAAGGGGCCCCAAAGACAGGAGGAACCAACCCCAAGCA GAAGGAAAAAAAGAAAACCGGGGGGAACACAGAAGAAGAGAG G G G G A T T G A A A A G G G A G G A A A A G G A G G G G G G A A A A A A C C A A A A G GAGAGAGAGGGAGGGAGGGGGAAGAAAGAGGAGAAAAGAA ACCAGGGAAAAGGAGAAAATTGGGGCCAGGAAGACGACCCCA GAAACACAAAAAAAACCAAAAGGGAAGGGGGGGAAGAAACAG
 GAAAAAGAAGAGGGGGCGAGGCCAGGGAAAAAAGAGAAAAGG A A A G GAAGGCCAAAGAGGGGAAAAGCCGGAAAAGGAACACCG
 G G G G A GAA $A \operatorname{GAA} A G C A C A G A A G A A A G A A G G A A A G G G G G G A A G C$ $A C A A A A A G A C C C C G G G G A G G G G G A A G G G A G G G A A A G A A G A G G$ GCAAGGGAAGAAACCAAAAAGAGAAGGAGAAAGAGAAGAAAA A A C A A A G G A C C T T G G GACCCAGGAGGGGAGGAGGAA GA GAAG G G G G G G A C C A G G G G A A GATAAA A G GAGGAGAGCC GAAAA A A A GAGGGAGGAACAGGGGGGGAAGGGGGGGGAAGGAAGGGAGAA G G G G G A A A A C C G A G G G G G A G G A A G G G G G G GAAAAAA GAACA A A G GCCTTCGAGAGAAAGAAGGAGAAAGAGAAGGAAAGAACAA
 G GAGGAAAAGGGGAGAAAGCAGGCCGGAAGGGGGGAAAGAAG

G G GAAGGCCGGGGAAGGAAAAAAGAAAGACAAGGAAGGAAAA AT TAA A G A GAACCAAGGGGGGGGGGAAAAAGAAGGAAGAGAA A A GAAAAGGGGCCGAAGAAAAGACCCACCAAAAA GAAA GAAA TAGCAATGGGGAACCAGAGGGGAGAGGAAAGGAGAAGCAAAG G G G G G A A A A G GAA $A \operatorname{A} A A G G A A G G A G G G G G C A G G G A C A A G C A A$ A G GAA A GAAAGGAAAGGAAGGAAGGAAAAGGAAA GAAGAAAA A A G G G A A G A A C G G A A G A T T A G A A A A GAG GA G G GA G A A G G G G G GAAGGGGAGAGGGGGCCAAAGAGGGAGGAGGAAGAAGCCGGG G G G C A G A G A G G G G G G G G G G G C G G G A G GA GAAAC C C C C A A G G AGGAACCCAAAAGAGGGCCAAGAGACCCCAAGAGAGAAAGGA G G GA $\operatorname{l}$ TAA $A$ A $\operatorname{A} G A A G A G C C G A G G A A G A G A A G G A G G G G A A A A A$ TAAAAGAAAAGAAAAAAAAGGAAAAAAAAGGGGAAATCAGAA G G GAGAAAAGAAAACCCGGAAAGAAAAAACCCCAAACAGGAG A G G A A G G G A A A G GAGAGCAGGCCGGCCGGGAGAAAAAAGAGA GAGAGAGACGAAACAACGGAAAGGAAAAACCCAAGCCGGAGG G GAGAACGGAAACGGGGGGGGGAAGAAGGAGGGGGAAAAAAA A A A A A G G A A A A C C A A GAGGGAACGGAGGGATCGGA GAGGGGC
 AAGAGAGGAAGACGAAGAAGAGGAAAAAAAAAAAAAAGAAAG AAGGAAGAAAGCAGGGGCAGACAGATTAAAAAAAGAAGAAAC $C G G A G G G A A C C G G A A G A G A G A G G A A T T A A A A G G A G G G G A C A A$ A G GCCAGGGGAAGGGAAAAGGAGGGGGGGAAGGAAAAACGGG GACTAAAGAAAGAGAAGAAGGAAAAAAGGAAGGGAAAGAAAC C C A A G A A A A A C G G G GAA $A \operatorname{GCC} C A C A G G G A A A A A G G A A G A G G G G$ A G GAAAAAAGACCAAAGAAAGAGAGGAGGCCCCAGGAGAACG GTTAAAAGAGGGAGGAGAACCGGGAGGAACCAAGGCAAAAAG GAGGGGGGAGAAGGCAAAGGGGAGGAACCCAAAACGGAACCT
 GAGACAGGAGGAACAGGGGAGGAAGACGGGGGGAAGGAAGAG A GAA A G G G G A A G G GAGAAACCGGCCAAGGAGGGGGGAAATXA A C C G G A A A A C C G G G A G G G G A A G G G G A A G G C C A A A G A A G G A A G GAAAAAAAATTGGAGGGGAAGCCGGAAAGAAAGAGGAACGBA
 G G G A A G G A GACAGCAGGGAAAGGAGGGAAGGAACAGAGAAAC $A C C G A G G G A A A G G G A G A A G C A A G A A C C G G A A A A G A A A G A C A A$ A G G G G A A A A A A A CAAA A G G CAAA A GAAA A A G GAA GAA G G G G A
 A A GAGGGGGGGAGAGGGGAGGGAAAAGGGAGAAAGGAGGCCC A A C G G G G G G G G G G G G G G A A G A A A $\mathcal{A} G G A G G G G G G A A A G A G A B A$ G G G G G A A $\mathcal{A} G G G G G G G G G A A A A G G A G G G G G C C G G G G G A A G A B A$ C G GCCGGAAGGGGCCGATTAAGAACAAAGGAAGGAGAAGACA GAGGGAGGGAGCCAAAGGAGGAGGGGAAGAAGGAAAAAAABC $C \subset C G G G G A A G G A A G G G G A A A A A A G G C C G G A A A A A A A A C G G G G$ A G G G GCCAA G GCCAAAGGGGGCCAACCGGGGAAGAAGGGGGA G A G A G G GCC G G G A A G G G A G G G A A A A A G G A C C G A A A A G G G A G G G G GCC G G A A G G A G G A C A A GATGGAGGACC GAAGGGGGA GAAC C G G G GAGACCCAACCGACAAAGGGGAACAGGGGGGGGGAAAA ATACAAACCCCAAAGGACGGAAAGGCCGGGAAAGGGGAGAAC AAAGAAAGGAAACGGAAAGGAGGGAAAGGGAAACCCCAAGAAA G G G GCA GACAAGGACAAGAGGGAAAAAAAAAAAACAGCAAAB $A C C G G G G G G G G C A A A C C G A A C G G G G A A G G A A A G A A A G G G C G G$ GAAACAACAGAAGAAAAGGGAAAAAGGAAGAAAGAGGGGCCG $G C A C C A A G G A G A G A G G G A A G G A A G G A G G G G A C C G A C C G A A A G$ AGGAAAAAAAAGGAACCGGTTAAAAGGGGGGGGAAAAGAAAA A G GAA A G G G G G G G A A C CAA $A \operatorname{AGAA} G G A A A A G G A A A A G G G G G G G$ GAACCAAAAAAGGAAAAAAAAGGGGGGGGAAAAGGGGAAAAA A GGCCAAGGCCGGAAAAGGAAGGCCCCGGGGGGGGGGAAAAG $G G G A A G G A A C C A A A A G G A A G G A A G G C C G G G G G G A A G B C C B G A$ AAAGGGGCCCCAAGGAAAAAAGGGGGGGGAAGGGGGGAAGAA

GAGAGAAAAGGGGGAGGAAAAAGAGGGAAGAGGGGCCAACAA G GAGGAAAGAGAGAAGGAAAGAAGGGAAGGGAAGGGGCAAGG A A ACCAAGGAAGAAAGGGAAAAAGAGGGGAGCAAAAAGGCCA GAATTCCGGGGACAAAGGGGAGGGAGGAAATGGGGGGAGAGA
 GA $A \operatorname{G} A A G G G A G G G G G G A G G C G G G A A A A G G C C G G A G A A A G G A A$ GAAGAGGAAGAGAACAGGAAGGAAAAGGGGGGGAGAAAAGAG GAGAAGGAGCCAAAAGGAGGGGAAGAAAAAGCCAAGAGAAGC A A G G G A A G G A G A G A A A A G A A G A A G G A A A A GAA G CA G G A A A G A AAAGGAAGGGGGGAACCCCGGGGAAAAGGGAAGACACAGAGC A A G GAGAAAGGGGCCCAAAAGAAGGAAGGAAAAAAAAGAAAG GCCAAAAGGACGGAAGGGGGGGGAGAAACGGAAAAAAGBCCA GAAGGAAGGGGCACCGGAAAAGAAAAAAAGAAGAACCAAGBC C C C G G C A A C G A G G A A G G A A G G G A G G GA G G G GAAA A G A G G A G A A G GAACAA $A$ A A A G GCCGGAAAAAGGGAAAGGGAAAAAGGACAG GCCGGAGAGGGGGCCCCGGGAGGAGGGGGGGAAGGCCGBACA GACAGATGAAAGAAAACGGGAAAGACAGGAAGGGGCCATA GA G G G A G G A G G G G A G G GAA A GCC GAGGCCAGGAGAAAT TAAAAA A G GAA A GAAAGAGGAAAAAGAAAAGGAGGGAGGAAAAAAACC CAA GACCGGAAGAAGAAGGGGAAGAAAAAGGGACCAGAGAAG A A A A A A A CAAAAAAAAAAAAGGGACCCCAGGCCGGGGGGGGA A G GAGAAGGGGAAAAAAAAAACAAGAAAGACAAAGGGGGCAA $A C C G G A A G G A G A A A A G G G G A A G G G G A A G A C A A G A A G G A A G G A$ AAAGGAAAAAAGGACAAAAAGGAGGCAAAAAGAAGAAAAACA $G C C A A A G A C A A A G G A G A G G C A G A C A A G A G A G A G A C G G C C G G A$ A A G GAGAGACAAAAAAAAAGGAAGGGAGAGGAACCAAGAAGA G G G T TAA $A \operatorname{GGGA} C A G A A G A G A C C G G A G A A A A G G G G G G G G A G A$ GAGACAGGGCCAAAAAAGAGGAAGGAGGAGAGAGGAAGAAGA A A G G G A A A A G G A A A G G GACAA GAGGAAAACCGGGATTGGCAC CAAAAAAACGGAGGAGGGGCAGATAAGGGAAAAGGAAGGGGG GCCGAGGAAAGAAAACCAAAGGAAAGCGAGAAGAGBAGACCG GAGGGCCCAGGGAGGAAGAGAACAAAAAAAAAAGAGGGAAAA C G GAGGGAGGAAGAAAGGGAGGAAAGGGAGGGGAAAACAAAA A A GA $\operatorname{A} A A A \operatorname{A} A A A A A A A G G A A G G G G A A G G G G A A G G A A G G A A A A A$ A G G A A A A A G G G A A $\mathcal{A} G G G G G G G A A G G G G A C A G A G G A G A A G C A A$
 GGGAACCAAAAAACAAAGGCGCAGAAGAAGGCAAGAGAAAGG A A G GAA A A GAC GAGGAGCACATTAGAAGGAAGAGGAAAAGGA AGACAGAGGAAAAGGAAAACCAAAAAAAAGGCCAACG
C C A A A GAGAAGACAACAGAGAGAGGGGAAAAAAAAAAAAAA GAGAAAACCGGGAAAAAGGAAGGAAGGGAGGAAACAGAAAGB A G G A A G G A A A A A G A A G A T T GAAAAAGGAAAGGAA G GAAA G G A A A A A A A A G G G G GAAATTCCCCAGAGAGGACCCAGGGAAG GAC AA $A \operatorname{GGGAAAACAAAACAAAGGACAAAGAGAGGGGAAAGAACAG}$ A G GCCAGGATAGGAAGGGGGGAAGAAGAGAGGGAAGAGGGGA GAGAGAGAACCAAACAACAGGGGGGGGAAAGGAGGAAGGGGA A GAGAGGGGGGGGGGAAAAAAGGACAAAAGGAGAAAAABAAG AAAAAGAAGGGAAGGACAAGAGAAACCGGAAAAAAAAGGGGC CAGTAAAAGAAAAAAAACAGGAGAAGGGGAAACAAGAAAAAC CAACCCAACATAGAAAAGGAAGGAACCAAGGAAGGAAGGAGA A A G G A CAG G GACCAAGGGGCCGATAGAAAGGGGCCAAAAGAA AAAAAAAAAGGAAGGAAAAAAGGGGGGCCGGGGGAAGGACAA CAAAGAAGGAGAAGAGAAAAAAAGGAAAAGGGACAAGAAAA G GGACCGGGAGAGAGAAAACGGGAAGAAGGGAGAAAGGGGAAA CAGACAAAAGGAGGGCAGGAGAAAGGAGAGAAAAAGAAAGGG G G G G G G G G GAACCGGAAGGAGGAAGAGAGCAAAGGAGGAAA G A G G G G G G G G C A G G G G G G A A A A C A G G C C A G G A G G G G A T G G G G A
 G G G G G G GAGGGAAACGGAAAAGGAAAGGGAAAACAGGCAGAG

A GAGAAAGAGAACCAAAAAGAAAAAGGGGGGGGAGAGAGGGA $A G C A G C G A G G G A A G G G A A A A A A A A A G G A G G G G G A A C C G G A G G$ A GGCAGACCAAAAAAGGAAACAACCGGAAGGGGTTCAGAAAG ACAGGGAGAGACAAAAAGAAAGAGGAGAAGGAACCGGGACAA A GAAAGGAAGGAAAGAAGGGGAAAAAAGGAGGGAAAACA GAA GACGGAGGAGGAGAGAACGACACAAGGGGGAGCAAAAGAGAA A GAACGAAGAAAAGGGGGGAACCAAGGAACCAAAAGGAGGGA
 G G A A G A C G G G G G G G G G G G G C A A G A A C C G G A A G A A A G G G G A G A C G GAA $\operatorname{A}$ GAAAAGAAACCACAGGGAAGGCCGAGAGGGAGAGGA AAAAGGACAGGGAAAGGAAAGAAACAGAAGGAAAAGGAGAGA GAAGGGGGAAAAAGGAAAAGGGGGGAAACGGAACAAGGGGGG G GAGGGGGGAAGGCCAAAGAGCACAAAAACAAGGGGGAAGAA A A G GA G GCCGAAGAGAGGAAACCACGAGGGGAAGGGAACCCA G G GAAAAAGAAAAGGAGAAAAAAGGAGAAAGAACCGGGGGGC $C \subset C A A A C G C C C A A G G A A A A G G A A G G A A A A A A A A A A G A A A A G A$ G G GCCAAGAAGCAGGGGGACCACGGAGAACCGGGGGGGAAAA A A C G GCC G G G G A A G A CA A G G G G A A GAGGAAGAAAATTCAAA G GAGAGGAGGACAAAAGGCCGGGGAACCAAAGGGGAGAAAAAG
 A G GAGAAGGAAAGAGGGGAGAAAAAGAAGAAGGGAAGGGGAG
 G GAAA $A \operatorname{ACGGGGGGA} A G G G A G G A A A A G A G G G G G G A A G A A G A G G$ GAAACAGCAGAAACCGGGGAAGGAAGGAGAACCGGCCGAAAG GAAAAGGAAAAGGGGAACCAAGGGGGGGGCCAAGGAACAAAC CAAAAAAAAAAAAAAGGGGGGCCAAGGAAGGGGGGCAAAGGG GAAAAGGAAGGAAGGGGAAAGGGGAAAAAGGAAGGAAGGGGA $G C C A A G G A G A A A G A G A G A A G G A A A G G G G G A G G G A A A A A A A A G$ GAAACAGAAAGGGAGGGAAAGCCGGAGCAAAGAAAGAAAGAA A G GAA A A C C G G GAGAGGAGACGAAGAGAGAGGGAGGAAAAAA A G G A A G G C A T T G G A C C C G G C C G A A A G G G G G A A A G G G G G G G G A G GAGGAACCAGGGAGAAGGAAGGAAAAGGGGAACCGGGGGGA AAAAGCCGGAGAAGGAAGAAAAGGGGGCCCAAAAAGGGACCG $A G A G G A A G G C C A A G G A A A A G G G A A G G G G A G G G G G G A A G A A G A$ A GAGGAACCGAGGGGGGGGAAAAGGGGCCCCAAAAAAAAAAA AAAAACCAAAGGGAAGGAAGAGGGAGGAAAGAACCAGAAAAA G G GCCAGGGGGAAAAAAGGAACCAAGGGGAGAAAGATGGTTA A G G A G G GAA $A \operatorname{A} A A G G G G G G A G G G G A G G A G A A A A G G G A A A G G G$ $A G C A G G G G A A C G G G G A A G G A G A G A G G G A G A A G G G A G G G G G G G$
 AACGGAAAGGGGAAAAAAACCGGGGAACCAAGGGGAGAAAAG GAACCAACCCCAAAAGGGGAGCCCCACGAGGCGCCAAGAGCB A G GAGGACCGGAGGAGAAGGGACCCGGAACCGGGGAAGGCCC C G G G G A A A A G G A A G G G G A A A A G G G G A A G G A A A A C C G G G G A A A A G G G G A A G G G G A A C C G G C C T T G G A A A A CAA A A GAA G G G G G A A A G GCC G G A G G G A A A A A A G G A A A A G G G G GAA A A A GAAACAA A A GAAAGGAAAGGAGCCCCAAACAACAAAGAAGAGGAACGGGGG GAGGGGGAGACAAGGAGGGGGGGGAGAAGAAGAGAAAAAAAG AA GAGAAAGCCGAAGGAAAAGGAGAAGACCCAAGGACGGGAC
 AAAGGGGCCGACCCCCAGAAAAAAAGAACAGGAGAACGAAGA
 A A A A A C C C C C C G G G GAGGGGGGGCCAAGAACAAGGAAAAGAG G G G A A GAGGGGTTGGGGAGGAGAGAGGAAAAAAAACCABAAA $A G G A A G G G G A G A G A A G G G A C A C C G A G G A A A A C C G A G A G A G G G$ GCCCCACGGAAGAAAAAAAAAAAGAGAAACCAGGAGAGAAGA A A G G G A A A A C C A A A A A G G GAGGGACTAAGAGAGGAGGGGCC G $A G G A G G G A A A A G G A G G G G A G G A G G G G G C C G G C A G G A B A G A G B$ $G C A A G G G A A G G G G G G A A A A G G A A G G C C C C G G A A G G G G G A G G G$

G G GAAGGCGAAAAACGGCAGGGGAAGGAAACCAAAGAAGGAG GAAGGAAAACCGGGGGAGGCCGAAAAGAAAATACCGAAAAAG GCATTGGGAAGCCGGGGTAGAGGAAGGGAGGGGAAAAGACCA A GGAAAACCAAAACCGGGGAAAACCAAAAGGAAGGGAGGGGA A G G G G A A G A A GA $\operatorname{A} G A G G A G G G G G A G G A G A A A A G T T A G G G A G G$ A A GCGGGGGAAAAGGAAGGCACCGAGGAAGAACGGGGAAAGG C C C A A C C A GAGAAAAAAGGCAGGAAGGATCCAACCCCAAAAC GAACCCCGGGAAGGACCGGAAAAGGGAGGGAAGAAAGGGGGG G G G A A G G A G A A $\mathcal{A} G G G G G G G G G G G G A A G C A C C A A C A G A A A A G A$ AGGGGAACAACGAAAGGGGAGAAGAAACCAAGGAATTGGGAG A A C G G A A A A G G G G G GAA $A \operatorname{A} A A A G G A A G G A A A A G G C C G G G G G A A$ A A A A A G GAA $A \operatorname{A} A A G G G G C C G G A A G G G G G G G G G G A A A A A A G G A$ ACCGGAAAGAAGGAAGGAAAAAAAAAAAAGGGGGAAGAAAAC GAAAGGGAAGGCCAGGAGGAAGAAGCCAAGAGGACCAGGGGG GAAAGCCAAGGAAGGGGGGACAGAAAAAGCAAAAACAAAAAG A G GAAA A A G GAAAA A A G G G G GAGGGAAAAGGAAGGA GAAC A A G GAAC $A \operatorname{AA} A G G G A A A A A A A A G G A A G G G A G A G G G G G G A A A G A A A$ G G G G GCCAAAACCAAAAGGAAAAGGAAGGGGAAGGGGGGGGA A G G A A A A A A A GAGCCGAACCCAAACGGACAGACAA GAGAGGA G GAA A A G CAG G GAA $A \operatorname{ACC} C A G A A C G G A G G G A A A A A A T T G A A A C$ $C G G G G G G A A C C G G A A G G G G G G G G A A G G C C C C C C A A A A G G A A C$ CAAAGCCAAAAGGGCGGAAAAGGGGGAAAAAGGGGGAAGGAA A A G A A G G A A G A GAA $A \operatorname{A} A G G A A A A C A A A A G G G A G G G A A A G G G G G$ G GAGGGGCAGAGAAGAGAGAGGAAAAAGGGGAAGAGGGAGGA G G GCAGGAAAGCCAACCGAGGGGTAAAGAAGAGGAGAAAGGG GAAGGAAGGACAGACCAGGGGAGGGGGAACCAAGGGGAAAAA A G GAACCAAAAAAGGAAAAGGGGGGGGAAGGAAGGGAGAAAG G G G GA $\operatorname{l}$ G GAGGAAAAGAAAGGGAAAGGGGAGTTGGGGAAAAA A GAAGCCAAAAAAACGAGAAGTAGAGAAAGGACAAAAAAAAA AGAGGCCAAAAAGCGAAGAGGAAAAGGAAAAGGAAGGGGCCT $T G G G G A A G G C C G G A A A A G G A A G G G G A A A A G G A A A A G A A A G B A$ $A G G G G G G G G G G C C A A G A T T G A G A G G G G A C G G A A A G G A C C A G G$ ACCAAAAGGTTAAAAAGGAGGAAAAAAGGAAGACCAGEGAGAA
 A G G G GCCAAAAAGGAAAAGGGGGAAAGTTAGCGAGAAGAGGA A A GAACCAAGGCCGGAAGGAAGGAAGGGGAGAGCCAGAAAAA G G G GAA ACCAAGGCCAAGAGAGGAGAGAAACGGGAGAGBCAA AAAGGGGGGAAAAAGGGGAAAAGAGGGAGGAAAGGAGABAAAA A G G A A G G G G G G G G G G A G C C G G A A A G G G G A G G C A G G G A
A GAAC A A A C G GAAAGAAAGGGAAGGAGGGAGAAAAAGGAAAA $G C A G G A A G G G G A G G G A C G G G A A A G G G G A A C C G G A A G A A A A A G$ G A A A A A A G A T T A A G G G G A A G G G G G G A G G G A GCCAAAAAAA $\mathrm{C} A \mathrm{~A}$ A A GACAAAACAAAGGCCAATTGGGAACGAGGAGAAGGGGAGG GAAGGAACGGGAAAGACCAGAAAGAAAGGGGGGGGGABAAAA
 A G GCCCCGGAGAGACGGCAGAACGGGAAGGGGGGGAAAGGAG GAAGGGGACGAAACCGAAAAACCAAAAAAAAAAGGAAGAAAG G G GAA A A T T G G G G G GAA A GAAGGAAGGGAACAAGGGGAA G GA GACGACGAAGGGGAAGAAAAGGAGGAAGGGGAAAGAACCGGA A G G A A GA G GAACCAACCAGAAAAAAGAGGGGAAAAAAAGGGA AAAGGAAAACCGGAACCAAAGAAGGGGCCGAAAGGGAAAAAA $G G A A A A A G G G A A A G G G G A A A G A G G G G G G G G G A A A A G A A A A A G$
 G GAGGAAAAAGAAGGAAAGGGGGCAAAGGAAAGAAAAAGAAG G G G A A G G G G G G C A G G G G G G G G A A G A A G G G G G G A A G A G G G A G G A G G G G G A C C G A A G G G A A G G G G G G A A G G C C G G A A G G G G A A G G G GAACCGGAGGACCGGAAAAGGAAAGGAAAAAGAAGAAGGGGG A G G G G GACACCGGAAGGAAGGAGAAGGCCAGAGAGGGGGCCA G G G G G A G A G G G G GAGGGAAAGGGAAAACAACCCAAAGGAGGG

G G GAAAAGGGAAAAGAGCCAGGAAAGAGAGAGGAAGGGGGGA $A G A G G A A A G G A G G G A G G G A A A A A A G G A C C G A G G G A C C A A G G C$ C C C G G GAG GAGAGAAGGAGAGAGAGAAAGGGAGAGAAAAGGAG A G G GACCGGAGGAGGGAGGAAGAGGGAAGGACCGGGAAAAAG AAAAGAAGAGGAAAAAAAAAGAGAGGGAGAAAGACGAAAGAA A G G G A A A G G G GCCCCGGAGGAGGGAAGCAGAGAAAGAAAAGA G G G A A A A A G G G A G G G G A A A A GAGAGCCAGGGAAAAGGCAAAA AAAAAGGAACCGGAAGGTTAACCAGAAGGGGGGAAAAGGCCA
 GAGGAGGCCAAGAGGAGAGAAAGGGAGAACCGGGGAAAGGAG GAGTAGAAAGGGGGGAAGGGGACGAAAAAGAAAAGAAAAACA TCCAAGGCCCCCCGGAGGGAAGGAAGGGGAAAAGGAGAGCCC C G G G G A A G GAAA A A A G G G G GAAAAAACAAAACAAGAAAAATAG $G C A A A A G C A G G A G G G A G G A G G A A A A A A G G G A A G C A G G G A A A T$ AGGGGAACAAGAGGGAAAAGCCGACAGAAAAACAAGGCCAGG GAACCAGGAGGAAGGGGGGAGGGGAGGAAGGGGGA$G A C A G G G$ AAAGAGGGACCCCGGGCAGATGGAGAAAAGAACAGGAAACCG A GAG G A A G A A A C C G G G G T T G G A A G G G G A A A A A A G G G G G G G G G GAAAA $A \operatorname{A} A G C C A A C C G G A A A A G G G A G G G A G G G G A A G A A T G G C$
 A G GAAAAGGGCCAGGAAAAAAAGAGGGGGAAAAAAGGGGAAG GCAGGGAAAAAGGCCAAGAAGGGGGAAAAAACCGAAACAAGC CAAA $A$ A A G ACCAACAGGAGAAAACCCCAAGGAGAGGAGAAGA
 A A A A G A GAAAA $A \operatorname{A} A \mathrm{~A} G A A C C A G G G A G C C A A G G A A G A G A A G C C C$ GCCAGGGAGCCGGAAAGGAACGGAAGGAAGACCACAAAGGCA ACAAAAAAAGAGGAAAAGAGGAACCGGAGAGAAAAAGGAAAC C G G G G A G G G GACCCCAAGGAACCAAAAAAAAAA AAACGGGGG GAAGGGGAAAAGGCCAAGGGGAAACAGCCAAAACAGGGAGAA GAAGGGAAGAAGGGGGGCGGAAACAAATTGCGAGAACGAAGG A A G A C A A A A A A G G A A G G A G G G G G G G C C G G G G A A GAA A A C G A A AAGCCGGGGCAAGAAAACAAAGAAAGGAGAAGGAAATAGGAA $A C C A A T T G G A A A C G A A A G G G G G A G A G G G G A A G G C A G G G A A G G$ G GAAGAAAGAAAACCGGGGAAAAGGAAGAGGAAGGGAACAGA CAAGAGAGGCAAGGGGGAAGGAAAAGGAGCCAAGGGGCAAAA A A A A A G GAGGGGGAGCCAACAGACACCGGGAGGAAAAGAGAA
 $C G A G A G A G A G A G G G G G A G A C C G G G A A A A A G G A A A G G A C C C C G$ A A A A A G G A A A A G G G G G A G A A A C C A A A A C C GAGAAGCCAA G G G GAGCGCCAGGCGCACGAACGGACGGCGGGAGAAACCCAAGBA AACGAGAGGAACCGGGGAACAGGGGAGGGAGAAGGAAAAAAA A GACCAGGAAACAAAAAAAAAAAGAGGGGACGGGGACCCCCG AAGAGGATAGGGGAGGGGAAAAGAGCAGGATACGGGGCCGGG A G G G G A A G G A G A A G A A A G GAAAAA A G GAAAAAG GAA G G G GA G G GAAAAGGGGAAGGGGAAAAAAGGCATAGAGAAAAGGGGGGGG G G G G A A A A A G G A A C C G G G G A A G G G G G GCCAAAACC G GAAAAA G GAGGAAGGGAGACAGGGAAAAACCCCAAGGAAAAAGGAAAA AAGAAAAAAAGGAAAAAGGGAGAACCCGCGGCCAGCAAAGGG G GAGGAGAAAAGGAAAAGGGGAAAAGGAAAGGGA GAGAAGAG
 G G G G G G G A C T T G G G A A GAAAGAAAAGACAAACCGGGGAAAA G GAAAAGGAGAAGGAAAAAGAAAAAAGGCCGGAGAAAAGAAAC C G G G G G GACAAGGGGAGAAAACCAGACGGGGGGGAAAAAAAC $C A C G G G G A G A G G A A G G G A A A G A A A A G G A C C C G G G G C C A G C A G$ AGACCCACCAGGAGAAAAAGGAAGGAAAAAAAGCCGAAAAAA G G GAA $A \operatorname{G} G A A A C C G G A G A G A A A A G G G G G G A G C C A A G A A C A A G$ AAAGGAAAAAGAAAAGGAAAGGACAAAAAGGGGGGCCGGGGG $G G A G G A A T A G A A G A G G G A A C C A A G G A A G G G G A A A A A A G A A A G$ $G G G C C A A A A G G C C G G G G A A G G A A G G A A A A G G A A A A C C A A G G G$

G G G A A A A A A A A G GAAGGGGAAAAAAAAAAAAAAGGAAAAGGA A A A A A A A A A A A A A A A C C G G A A A A G GCCAAAAGGCCAAGAAAA A G G G GCC G GAA $\mathcal{C} G A A A A A G G G G G A A A A G G G G A A C C A A G G G G C$ CAAAACCAAAAAACCAAGGGGAAAACCAAGGAACCCCGGGGG G G GAA $A \operatorname{GA} A G G G G A A G G A A C C G G A A G G T T A A G G C C G G A A G G C$ CAAAAAAGGAAAAGGAAGGAGAAGAGACAAAAGCAGGCACCC GAACCGGGAACGGTTTTGGTTCCAGAAGGAAACCCAAGBCAC AGGCCAAAAGGAAAAGGCCGAGAGGAGAAACCAAAGAAAGGG G G G A G A A A G A A C A G G G G G G GAA $A \operatorname{A} A G G G A A A C G G A G G G C A A A G$ GAAGAAGCCCCAAGGAAGGAAGGAAGCAAAAGGAACCAGGGG A A A A G GAGGAGAAAGGAAACACAAAGGAGAAGAGAGGAAGGG G G G G A A A A A G G G G A A A A A C C C G G GAGGAAGAAAAC GAAAA G G
 $G G A A A A A G G A G G G A A A G C A A G G A G G C A A A G G A A G A A C A A A A G$ GACGGCCGAAAAAAGGGGAAGAAGGGGAGCCAGGAGAACAAG G G G GAAAAAAAAAGAGACAAAGGGGAAGGGGAAAA GAAAGGG G G GAA $\operatorname{T}$ T G GAGCAGGAGAAGAGGGGGGCCAGACAAGAGAAGG A A A G A A A A ATTGGACGGCCGGAAGAGAAAAGAGAAGGGGCCA $G G A A A A G G A G G C C A A A A C C G G A A G G A A G A A G G G G G G A A G A G A$
 A G G G G G GAACCAAGGAAAGGAAAGGAAGGGAGGAGAGAACAA GATGAGGCAGGAAGGAAAGGGAGAAGAAAGGAGGACCABAGAA GAAAAAAACCCGGCCGGAGAAAAAGGGGGGGAACCGAAGAAG
 G G GACACAAGGGGGAACGGCCGGAAAGACGGGAGGAAGGGGG GAAAAGGAAAAGGGGGGGGGAACGGAGGAAAAGAAGAAAAAG G G GAGGAAAAAGGAAAAAAAAAAAAGGAGAGGAGAAAAAAAA G G GA $\operatorname{A} A C G G G A A A G G A A G A G G A A G G G G G G C C G G G A G G C C C A G$ GAGAAAAGAAAAAGGAAGGAGAGGGCCGAAACCGBAAAAAAA $A G G G G A G G A A G G A A A G G A G G G A A A A G G A A G G G G G A A A A A G A C$ C T T G G A A A A A G A A A A G G A A A A G GAA $A \operatorname{AGGGGGGGGGGACAAAA}$ G G GAAGGACGCGACCGACGCCAGAGGGAAAGAAGGGGACAGG ACAAA $\mathrm{A} A \mathrm{~A} G \mathrm{~A} A \mathrm{~A} G A \operatorname{A} C A A C A G A A G G G G A G G G G A G G A A A G G A A$ GAAAAACGGAAAAGGAAGGAAAACACAAGAGAGCAAGGGGGG GGGAGCCAAAAGAAAAAAAGGAAGGAAAAGGGGAACCGAAAA A G GAAAAAAAAAAGGGGGGAAAAAAGGCCGGGGAAAACAAAG G G G A A A A A A G G G G G GC C G G G GC C G G G G A A G G G G G G G G G G G G G A GAGGAAGAGGGGAAGAGGCGGGAGAGGAAGGGGGAAAAAAA A G G A A G A G A C A G G A A GAGGCAAAAGAACCCCCCGAAG
G GCC G G G G A A A A G G GACAAAGAGAGGCAGGAGAAGGAAAAC GAAAGCCGGCCGGAGAGAGAAGAGGGACAAAACGGAGCAAGAG
 A G G GAGACCGGAGAAGGCCAAAAAAGGAAACGGAAAAAGACA T G C A A G A A A A A G G G G G G C C A A GAGGAGGAGGGGAAGGCCCCC C G G A A G G G GAACC G G G G A A G G GAGGCC G GAAAA A A C C G GA G A G G G A A A A A A A A A G G G G G A C T T A A G A A GAAAA A GA G G G A A A G G G G G G GAAAAAAGGAACCCCGCGGGAAGCCGGGGGAAGAGGGA GAAAAGGGGGGAGAAAAGGAACCAAAAAAGACAAGGGAAGAG GAAGAAACAAAAGCCAACAAGAAAGGAAAAAGGGGGGAAACA A GAA A A GACAGGGGGGGAAGGCAGGGAGAGAAGGAAAAAAAA
 GAGAACCCCAACCAAAAGAGAGGCCGGGGAGAGCCGGAAGAG GAGGGGGAAGGACAAGGGGAAAAGGGGAAGGAAAACCAGGAG A G GCCAAAATTCCGGGGGGAAAAAAGGGAGGAAABAACAGAG G GAAAGGGGGGAAGGCACCCCAAGACAAAGGGGAAGCAAAAG G GACCAAAAAAAGAAGGAAGGAGGGAAAAAAAACCGAAAAGG G GAA $A \operatorname{GA} A \mathrm{G} A A A G A G G A A G G A A A A G G G G G G A A A A G G A A A G A A C$
 CAAGACAGAAGGGGGCCCAAGCCGGAAAAAAAAAAGGCCGGA

AGGAACCCCAAAAGGAGGGAAAAGGGGAAAGAAAGAAGAGAG G G G G G G G A A A A A A G GAAA $A \subset C C C G G A G G G A G G G G G G A G A G A A$ ATTGGGAAAAGCCGGAAGAGGAGAAAAAGAGGGGAGAAAAAG
 GGGCCAAGGGGAACACAGAGGAAGAAGAAGGGGAGAGAACCG AA $\operatorname{A} A \subset A G A A G G G A A A G G A A G A G G A A A G A A A A A C A C A A A G G A G$ A G A A G A G G A G G A A A A A A G G G G G G G G GAC CACAC GAA GCCA GA AAGAAAGAAAACCCAAGGAGGAAAGGAGAGACAGGAGGGGGA G GAGGCACCAGCAGGAGAAGACCAGAAAAAAGGAAAGAACCA AGGAACCGGGAGGGGAAAAAAAGAAAACCAAAAGGAGGATAC C GAACAACCGGAGGGGGAAAAGGCCGAAGGAAGACGAGAAAA $C \subset C A G G G A C A A G G G G G G A G A G C C G G A G G G A G G A A G G A A A A A G$ GAAGGAGGGAGAGACAAGGAGGGGGGGGGAAGAGACCAGATA A A G G G A A A A A A G GAGCCGGGGCCAGGGAGCAAGCAGAACAAA G G GAAGGCCAGGAGGAAGGGGAAGACACAAGCAGAGGAAGAA GACGGCCAGAAAAAGGGAGGGGGAGGAGGGAAGAGAGGAAAC C G G G G A A A A G G G GACAAGGAACCCCGAGGAAGGGAGGAGGGC $A C C G G C A A G G G A G A A A G G G A A C C A G G G A A C A A G C C G G A G A G G$ $G C C A G A G A A A G A G A G A G A C A G A A G G G G A G A C G G A G A G A A A G A$ A A A G A G A G G G G G G G G G A A G G G G A A G A GAGAGAGAA GAAAAAA AGGGAGGCCCCCCGGGGCCGAAGGGGAAGAGGAAGGGGAGGG G G GAC GACAACAAAGAAAGAACAGGAAGGAGGGGAAAGGGGG GAGGAAGCCAAAAGGGATAAGGGCCCCCXAAGGAAAGCAGAA GA $A$ A A $\operatorname{A} A A G A A G G A A G G A A A A G G A G G G G A G G A G G G C A A A A A C$ CA $A \operatorname{GAA} A C A A A G G G G G G G G G G C C G G G G G G G G A G G G G A A G G G G$ A A A G G G GAA A GCAGGGGGAAGGGGGGGAAAAGGGGCAAAAGG
 $C \subset C \subset C G G A A G G A A C C G A C C G G G G G G G G A A A T G G G A G G G G G G A$ A GAGGGAAACCGGGGCCAAGAGGAAAACCAAAAAGGGGGCGC AAAGAAGCCGGAGGGCCGGAAAAGGAACCGGAAGGAGAAAAA A GCAGGGCCAAAACGGGGGAAAAAACCAGAGAGAGGAGAGAA AAAGGAGGAGGCCGAAAGGGGCCGGGGGATTAAGAACAAGGG A GAGGACGGCCGAGGAACCACGGGGAGGAGGGAAAAGAGGAG GACAAAACCGAAGAGAGAAAAAAAAGGGGAAGABAGGCCCCC C GAACCAAGCAAAGAGAGAAGGGAACCACCCGAAGGAGAAAG G GAGC G GAA A G A A GAA G G GAGCCAAGGAAAGACAGAAAAA GA GAGGGGGAGGGAGGGCCAGGAAGAACCAAAGCCGGGGGGCCG G G GAAA A $A \operatorname{A} A A G G G G G G G G A A A G A G G G A G C C G G G A G G C A A G A$ GCCAAAAACGGAGGGAACAACAGGGAGAACCGACAAGAAGGG G G G G G G G A A G G A A G G C C G A A G G G G G A G G A A A A A G G G C G A G G A A G GAA A A GAAGGGAAGGAAGGACAAGGAACCAAAGGGAACAG G G G GAAA A GAAAAGAAAGACCAGACAAAGGAAAGAGAGGGGG G GAGGGAAAAGGAGAGGGGAAGGAGAAAAGGAAGGGGCAAAA
 $A C A G A G A A A G A G A G G A A A A G G C C G G A A G G A A A A A A G G G G G G A$ A G G G GCC G GAA A G A A A A A A A A A A GGGGAAAAAAAAAA G GAA A $A A G G G A A G A G G C A A G A G G G G G G G G G G G G G A G G G A A G G G G G G G$ G $G A A G G G A A G G G G G G A G G G G G A C A A A C A A A G A A G G G G A A A C A$ A G GAGAGAAGGAAGGAAGGAAGGGGGGAAGGAAAAAAGAAGC A A A G G A A G GAGGGCCGAGGGGCCACAAGACAAAAAGAGAAGC CAAAAGGGAGGGACAAGAGGGAGGAAAGGGAAGGGAGAGAAA CAGAACCCCAGAGAGAGGAGAAAAGAGAAGGAGGGGAAAAAC CAAAAAAGGAAAAAAAGGGAAAGAAAAAGAGGACAAAAAACA G G GAAGGAACCGGGGAAGAAGGAGAAACCGAAAAAGGAGAGG G G G G G C A G G G A A A G G G G A A A A A A G A A G G G A GA G G GACCC G G G GAGAGGAGGCCAAAGAAGAAGGAGGAAAGGGAGCCAAGACAG GAGAAAGGAGGGGCCGGAAGGAGAAAAAAAAAGGGGAAACAA AGAGAACAGGAACAGACAGACAGAAGGAAAAGAAAAAGGGGA AAAAAAAAAAAGGAACCGGGGCCAGGAAAAAAGCCGGAAGGG

GCAAGGGAACCGGGGGGGGGGAACCGGGGGGAACCACCAAGG GAAAAGGAAAAGGGAGAGAGGACGAGACAGGCAAGGGAAAAG GAAAGAGAGAGGGAGAAAGGGAGGGAAGGCCAAGGGAAGAAC C GAA A GAGGAAGGAAAAGGAAAAAAGGGGAAAAGAAACAAAA A GAAAAAGGAGATGGGGGAAGAAAAAAGGGGAAGGAAGACAC C C C C A G G A GAGGACAAAAGAGGGGGAAAAGGAAAAGAAAAAG G G G G G A A G G G G A G A A G G G G A G A A C C G G G G G G G G A A G G A A G G G GAAAAGGGGGGGGAGGGAAAAGAAAGAAAAAAGGAGAAAGGA A A G G A G G C C A G A A A A G G C C G G A G A A A G G G G A A A A A A C G G A G G AAAAAAAAAAAGGAAGGAAGGAAAAGGGGGGGGAAGGGGGGG GAAAAAAAAGGAAAACCGAGGGGGGAAAGAACCGAACAAGGG GAAAGAGCAGGGGCCGGGGAAAAAGGAAAAGGGGAAGACGAA G GAACCGAGAGAGACAGCAGGGAGGGACAACAGGAACACAGB A A C A A A G A A A G A GAAA A A TAGAAGGAGAGAAGAGGAAAA G GA
 GAGGAAAGGGGAAGGAGGAGAGGGGGAGGGAAGAAAAAAAGA GAAACACCCAACCGGGGAAAAAGGGCCCATTGGAGEAGAAAA GAA A A GAA $A \operatorname{A} G A \operatorname{A} G A C C G G G G A G A G A A G G G G G G G G A G G G G G A$ CAACAGGCCAAGGGAAAGGAAAAAAGGAAAAAAGGAAGAGGA A A A G G G A G A A A A A G G G A G A CAAAGCCCACCCAACCAAAAG G G G G GAAAAGGCAGGGGGAGGGGCCGGAAAAGGAAAAAGGAGGC CAAGGGGAACCCCGGAAAACCGGAAAAGGTTGGGGAAGAAAA A G G G GCCCCAAGGAAGGAAAAAAAAGGCCAAGGAAAAAAGGG G G G G GCCCCGGCCAAAAGGAAAAAAGGAAGGAAAAAAAAGGG GAAAAGGGGAAAAGGAAAAAAGGGGGGCCGGAAAAAAAACCG GAAAAAACCGGAAGGGGGGAAAAGGCCGGAAGGAAGGGGGGA AAAGGCCAAGGAAAAAAGGGGGGAAAAAAGGAACCAAGGGGA A G G A A G G A A G G A A G GAAAA A GAAAGGAAGGCCCCAAGGAACC G G G G A A A A G GAA $A \operatorname{GAAAAAGGAAAAGGAAAACCAAGGGGGGGGA}$ A G GAAAAAAGGGGGGAAGGGGAAAAGGGGAAGGGGAAGGGGG G G G A A G G G G A A G G C C A A G G A A A A G GAA G GAAC CAAAAAA A G G G G G A A G G G G G G A A G G G G G G A A A A T T G G T T G GAA $A$ G A A G G G G G G G G G G A A C C A A A A G GAA $A \operatorname{A} A A A A G G A A A A G G G G A A G G G A A A G$ GCCGGAAGGGGAAAAAAGGGGCCAAAAAACCCCAAAAAACCA A A A A A G G G GAA A G A A A A G G G G G G A A G G A A G G A A A A A A G G A A A A A A A ACCAACCAAGGCCAAAAAAAAAAAAGGGGGGGGTTGGG1 GAAGGGGAAAAGGGGGGGGAAAAGGAAAACCAAGGGGAAAAG G G GAA $A \operatorname{GA} A A A G G C \subset A A G G G G G G C C A A A A T T A A G G G G A A C A A$ A G G G GCCAA $C$ G $\mathrm{C} A A A A G G G G A A G G A A A A G G G G A A G G A A$
C CAAAAGGAAAACCAAAAAACCGGGGGGGGAAAAGGGBAAG GAGACGGCCCAACGGAAAAAAACGGGAGGAAGGGGAACAAAG GAAAAGGAAGGAAAAGGGGCCGGTTAGGGGAGGGGAGAGACB G G G G G T T G G GAGAAAAAGGCAAAAACCGGCAGGGGAAGAGAA A A GAGGGGGTTAAAAAAAAGGGGAAGGAAGGGGAAAAAAAAA
 GAAGACCGACAAACAAAAAGGGGGGGAAGGGGGGAAGGAGAG A A A G G G G G A A A $\mathcal{A} G G G G G G G G G G G G G A G A A C A G A G G C C A A G A G$ A A G G A GAGAAGGGAGAGGAAGGGAGACGGAGAAAAAAGAAGA A GAGAGACCAAGAAAGGAGAAAAGGAAGAGAAACCAAGAGAA G G G A A GC G G G G C C G G G G G G A A A A G G A A A A G G G A A A G G G G A G A G G A G A A T G A A G A A G A G A T TAGGGAGGGGGAGGAAA GAA G GAG GTTCCGGAAGAGGGGACAGAACCGGAAAAAAGAGGGAAACCB GAAGGGAGGAAGGAAGGAAAAGGACGGAAGGAAGAGAABACA GAAGGAAGGAAAAAAAAAGGAGGAAGGGGAAAAAAAAAGATC GAAAAACGAAGAGAGGGCCAGAAGAGAAAGAATAGAGAGAGG G G GCC G G G G G C G G G A G G A G A A A A G G G G G G A GAGCCAA GAA $A$ A ACCGGGGGGAAACGGGGAGAGAGAGGGAGAAAAGGGGGACAA T G G GACCAAAAACAAAAAAGGAGAGGAGGACCCGGAGAGAAA AACAAAGGAAGGGAAGGCCAGCAAGGGAACCGGCCAAGGCCG
$G C C C C A G A G G G G A A G G G A A A A A C G A A G G A A G G G G G G A A G A C G$ G GAGACAAAAGAGAAAACCAAGCTACCGAAAGAGGGGCAAAG G GAGGGGAAAGGGCCAACCAGAGAAGGCCACCAGGGGGAAAC CAGGGGAGGAGGGCCGGCCACAAGACCGGAAGGAAAAAAAAA GAAGGGGGGAGGGCCTACCGAAGATAAGGGGAAAAAAGAACC A G G A A GAA $A \operatorname{AAGCCACAAGGCCAAAAGGGAGGAGGGAACACAA}$
 AAAGGAAAAAAGGAGAGAAGGGGACAAGGGAGAGAAACAGGT AAAAGAACCGGGAGGAAGGAACGCAAAAAAAAAAAAAAAAAA AAAGAGAAATTAAAAGGGAAAAAGGGGAAGGGGGAAATAGGG G G A A A G G G GAAAA A G G G G GAAAAAACCAGGCGAAAAC GAGAA G GAGGAAGGCAATGAGGGACAGAAGAGAACAAGGGGGGGCCC C GAAAGGGGGGACGAGAAAGGAAAAAAAGGACAGGAAGGGGA A GAGAAGCCAAGGAAACAAAACCCCGAGGGACAAAGGGGCA G GAAGGGAGGAAGAAAAAGGCAGCAAAAAAACGAAGAGAGGGA ACCGGGGAGCAGGGGAAAAAGAAGAAGGAGACCGACCAAGGG
 G G A T T C C G G A C G A G G A G A G G A G G A C G G G G G A G A A G A A C C G G G AAGAGACAAAGAGGGAGAAGAGAGGAAGGCCCCAAGGGAAAA A G G G G G G TACCAAAAAATTGGAAAAAACCAGACAAAAGAGAG AAAAAAAAAGGAAGGGACACCAAAGGGAGGGAGAGAAAAGAA A G G G G G G A A G G A G A A A A G G G G G G A A G G G G G A G A C C A A G G A G G A GAAAAACCAGCAGGAGAGCCAGAGAAGGAGAAGGAGAGGGG A G A G A G G G GAC $\mathcal{A} G G G A A A A G A G G G A G A C A A A A G G A A A A A G G$ A G GA $\operatorname{A} G A G G G A G G A A A A G G G G A A A G A A G G A C A A A A A A G A A G G$ GGGCACCGGAGACAGAAAAAAAAGAGAAAACGACCGGCAAAG A A GAAGGAGAAAGAGAGCCGGCCAACAAGGAGAAAAAGAAAG A A A A A A C G G G G A T G G A G G A A G G C G G G G G A G G C A A A G A G A A A A G G G G A A A A GAC GAGAGGAGAGCACCGGCCGGAGAAAGAAAGG AAAAGGAAGAAAAGGCCAGAGAGACGAGGCAAAACAAGAAGC
 AAAGGGGAGAGAAGACCAGGGAACGGACCACGAAACAGAAAG GACGGGGAAAAGGGGACAACCGGGGGGGAAAAAAGGGGAAAA G G G A A G G A A G G A A A GAGAACCCCGGGACAGGAACCAAGAGAA AAAGGCCAGAAGAAAGGAAGGCCACAAACGGGAGGGACAABAA G G G A $\mathcal{A} G A G G G G G G C C G G G G G G G A G G G G A A A G G G A C A G A A G E G$ G G GAAAAGGAGAACGAAGGCCGGAAGGAAAAGGGGAAAACCA

 GAAAAAAGGGAAGAAGGCCCCGAGGAAGGCCGGGGGAGGGGG CAAGAAAAAAAGGGGAAGGGGACAGAAGAGAGGACGAAGCAC C G G G G A G C C G G G A A G G G G G A A G G C C A C G A G G G G G G G G A A G G A G G G GAGGAAAGCCGGAAAAAAGAGAGGAGGGGGAAGAAAGBC CAAAAGGAAAATAAAAAGGAGAAAAAAAGAGGGGACAAAGAG GCAGGGAGAGAAACACAGGAGGGCCCCCCGGAAAAGGGAGGA G G A A A $\mathcal{A} G G G G G G G G G A A G G A A G G A A A A G G G G G G C A A A A G A A G$ G G GAAAGAACCAAGCAGAAAAGACCAGGAAAGAABAAAGCCG AAAAGGAGAGAAGGAAGAGGGAGAGCCGGCAAGAAGGACAAC CAGGACCAAGAGGGGGGGGAGAGGAAACCGCAAAAGAGGCCG G G G G G A A G G A A A A A A A G G G C G A A G G G G G G A A C C G G G G A G A G G A A GAAAGACAACCCCAGGGAGGGGGGGGAAGGGAGGGGAAGA CA $\mathrm{C} G \mathrm{G} G \mathrm{G}$ G A GAAACAGGGGGAAAACCAAAAAAAAGAAGGAGGA A A A A A A A A A A A A CAGAAAAGGGGCCAAGGAGAAAAGGCAAAC C G G GAA G GAAAAACAAAAACAAAGAAAGGAAACAAAGAAAGC G G A A G A A G G G GCCA A G G A G A G G G G G G G A G G G G G G G C A G G A A A

 C G G A A C C G GCCAAGGCCAAGGAAGGAAAAAAAAACA G G G A A A A G GAGAGGGCAAGAACCCCGGGGGCAAGGGGGGGGCCAGAAGGG

A G G A A A A A A A CAGAAGGCCGGAAGGAGAGCCAGGGAAAAAAA A A A A A GA $\operatorname{A} A A A G G A A C C G G A A G G G G C C C C G G G A G A A A A A A A A$ AAAGGAGGAGGGGAAGGAGGAAAAGAAAGGAGGGGCCAAAAA AAAGGGGGGCCAAAAAAGGAAAGAAAGAGAAGAGGGGGAAGA G GAAAGGCAGGGGAGAAAAGAAAGGGGGGAAACAAATGGGAC CACAAGGGGAAGGAAGGAAGGGAAACGAACCAGAAAGCCGGG GCAAAAAAACCAAAAAAAAAAGGCCGGGAGGCCCCAACAGGG A GAAAGGAACCAGAAAGAGAAAAGAAAAAGGAACCAGGAAAG GAAAAAAAAGGGGGACAAAGACCCCAGGAGAAGACAGAAAAC C GAGAATAAAAACAGAGGAAAGGAAGGAAGGCCGGGGAATAC A A A G G G G G GCAAGAGGACCGGTACCAAGGGGAAAAAAGGGGA G G G G G G G G A A A A A G GACAGAGACACGGAAGGAA GAAAGGGGA ATTAGAGCAGAAAAAGGGGGGGGGGGGAAAAAACAGGBAGGG $G G G C C A G A G C A G G G A A G A A G A G G A A A G G G A G A A G C B A A G G G G$ AGGGGCAGGGAAAGACCGGAAGGAGGAAAGGTTAGAGGGAGA A GACAGGGAAGAAGGGGAGACAAGGGGGGCCCCCAGAAAGAG A GAAATACCGAAACCAGGAGGAGGGAAAGCCAGGGGGAACAA GAACCCCCCAGGAGAAAACGGAAGAGAGGAAAGAGAGAGGAG GGGAAGGCCAACCAGAAGGGAGGAAAAGAGGCAGAGACCGGC C G G A A G G G A G A G GAGCCGGAAAAAACAGGAAAGAGAGAAGGC CAAAAAGAAGGAGGGAGGGGAGAGAGGAAGGAACCGGGAAGA A A C G A G G G GAACAGGAGGGACGGAAGGGGCCAAAAAAGGGGA G GAGGGGAAAACCGGGGGGAGGGGGGGAAGAAAAATTGAACG GAAGGAAGGAAGGACGGAAAGGGAGGAAAGAGGGAAAGACCA ACAAAAGAGAGGGAGAAAGAGGGACAACCGAGGGGGGACAAA AAGAGAAGGAGAAAGAAAGCCGGGGGGGGCCGAGGAAAAAAG A G GACAGGAAGACGGAAAAAAAAAAGGGAAAGGAAGGGAAAA $A C C G G C A G A A G A A C A G G G G C A G G A G A A A A G G G G G A A A G G G A A$ A A G A A A A G G A G G G G G G G A A A A A G G G G G A A A A G GAA $A$ G G A G G A AAAGGGGGGGAGGAGGGGAGGAAGAGAGGAGAGGGAGAAACA A G G A A G G A A A C C C A A G GAC G G G G G A G G G A G G A A A A A A G G T T A GAAGGAAGGGGCCGGAGGGCCAGGAAAGGCAAAAGAGGGAGG GAAAAAACCCCAGGGGGGGCAAACCAAAAGGAAGGAAGAAAG GAAGGGGGGAAGGCCGGAAGAGACCACGAGAGAACAGCAAGC $A G G A A A G G A G A G G A A A A A A G G A G G G G G C C G A G G G A A G A A G G G$ G G G G G A G G A A C G A A GACAGGGAGCCAGGACCGGAGAAGGGGG GCCAGGGGGAAGGACGGGGGGAAGAAAAAGAAGGGGAAACAA
 G G A A A G A A G G G G G A G G G A A G G C A A G G G G G C C A A G G C C
AACCAAAAGGAAGGCCAAAAGAGGTAGGGAAAACAAGACCG ACCAACCAAAGGGGAAAAACCGGGGGGTTAAAAAAAAGGAGC A G G A A A G G A G A C C G G G G A A C C G A G G A A A A G G G A G A G G C C A A G GACAAAGAAGGCCGACCAAGGGAGGGAGAGAGAAAGGAAAAG A A G G A GAGAAA $A$ A A A G G GAAAGAAAAGGGGCCCAGGGAAAGAG A GAGAAAAAAGGACCGGGAGAAGCCAGAAACGAGGAGAAGAA A G G A G GA $\operatorname{A} G A A G G A A G G G A A A A G G A G A A A G A A C A G A A A A G A G$ GAAAGACAAGAAAAGGAGAGAAGAAAAAAGGGGGGAAGAAAA A A A G GAA $\operatorname{A} A \mathrm{~A} G A A C G A G G A G A G G A A G A A A A A A A A G G A G A C G A$ A G G G G G G G G G G A A G G A A A G G GCCGAGAAGAAAACCAAAAA A A A A A A GAA A G G G G G G G G GCACAGAGGGGCAGAGAGGAACAAAA GAAA A A G G G GAGAGGGGAAAAGGGAGAGACAACGAGACAABA C CAAA $A$ A A A $A$ A $\operatorname{A} G A G G G A G A C G A A G A A G G G G A G G G A A A G G G G$ A G G A A A G A A A A G G G GACCCAGAGAAGAAGAGAA GGGGGGCCA AAGGGAAAAGGGGGGAACCGGGGGGAGAGAACGACAGGAGAG AAAAAAAAGGGGACCGGGGCCGGAAGGAAGGGGAAGGGGGGA AAAGGAACCAAAAAAGGGGGGGGAAAAGGGGAAAAGGGAAAA AAAGGAAGGGGGGAAAGAAGGAAGGAAAACCAACCGGGGGAG GACAGGAGAAGGAAAGGGGAAAAGAGGGGCAGACCTAA GGGG $A G A A G G G G A A A G G G G A A A C G A G G G G A G A G G G G G A G G A A A G G G$

GAGAAAAGGCCAAAAGGGGAGCCGGGGGGGGGAGGAAAAGAC CACACAGAGGGAGAGAGGAGGCAGGGGGGCCAGAGAGGAAAA A G G G G G G A G G G G G G A A A A A A G G G A A A A G GA G G G G A G A G G A A A A G G GAGGGGGGGGGGAAAACCCCGAGGGGGGGAACAACAAGG G G G GACCCCCAGAGAGGGGAAGGCCAAAAGGGGAAAAGGGGA GCCGAGGAGAGAACCGGAAAACCGAGGCAAAAACAGGGGTTG
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 $C \subset C G G G A A G A G A A C A A G A G A A G A G G A G G A G G A A A A C C B A A A A$ AAAAGCAAAAAAAGGCCGGGAAGGGGGAAAGAAGAAAAAAAA
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 GAGGGGGAAGGCAGGCCGGGAGGGGCCGGGGGGGGACCAACA C GAAGCCACACGAGAGAGGAAAAAAAAAAGGGGAGAAGGGGA $G C C G A A A G G A C A A G A G G G A G G A C G G A A A G G A A G C C A G G A G G C$ CAAGGAAGGAAACGGCCAACAGAAAAAGAGGAAAGAAGAGGA GCAAAAAAAACGGGGCCGGGAAAAAAAGGGGAGGGGGGAAGA GAGGGGAGGGGAACCAAGAAGACGAGGAGGGAAAAAGAAAGA A A G G G A A A A A A G G G G G GAAA A A A $\mathcal{A} G G G G G A A C C A A A A C A G A T$ A A C G G G G A A GAGGGAGAGAAGAGAAGGAAAAAAGACAAAA GA GAGGATTCCAGCAGGAAGGGACCCCGAGGGGAGGGAGAACCC

C G GAAAAAAGACCAAGGAGAAGAAGATACGAAGGAAGCAAAA $A C C A A A A C C G G A G G G A C G G G G A A G A A A A G A G A G G G A A A G G G C$ AAACCGGCCGGAAAGAGAAAAGGAAGGCACCAAAAAAGAAAG G G G GAGCGGAAGGAGAAGGCCCCAAGGGAAAAAGAGAAAAAG GAAGGGGGGAAGGAAGGGAAAAGGGAGAAGAACGAAAGGGBA A G G G A G A G A G G G G G GAAAGCCAGAGGGGAAAGAGGAGAGACC A G G A A A G A A G A G A A GAGGACAAGAAGGGAAAGAGGGGA GA GA C G G GA $A$ A A $A$ A A G GAGGAAGGGCCGGGAGAATGGGGAACACGA A G G G G A A A A A A G G T T A A A A G G G G G G G G G G G GAAAAAC $\mathcal{A}$ A G G C C G GAAGGTTAAAAAAGGGGCCAAAACCAAAAAAAAG GAAAAA ATTGGAAGGGGAAAACCGGAAGGAAGGGGAAGGAAGGAAAAG GAAGGGGGGGGAAAAAAAAGGAAGGAACCGGAAGAAAGGGGG G G GCC G G G GCCGGGGAAAAGGGGAACCGGGAAGAGAAGAGGA A G G A A G G A G G A G A A G G GA G GAA A A C G G G G G G G G G G A A A G A A A AAAAAGGGGAGCCAGGAGAAGCCAGAAACGGGGAAGAAAGGG G G GAA A G G GAA $A \operatorname{AG} \operatorname{A} A A G A A G G G G G A G G G G A A G G A A C C A G G B A$ G GAAA A GAAAAAAGAGAAGGGAAGGCCGGAAGAACGGAAAGAA A G G G G G G A GAAAAAAAGGAAGGGGGAGAAAAGGCCAAAACAG GAAAGACCACACCCGGGAGAGGGGGCCAAAAAAGGAGGAAGA GAGGGGGGGGGAGGGGGCCACAAAAGGGGAGGGGGAACAGAC C G A A A GACCGGCAAAGGGGCCGGAGGAGGGGGGAGGAAAAAA A G GAGGACCGGGAGGAGGAAGGAGGGAAGACAAAAGGCCGGG GAAAGGAGAAAGGAAAAAGGAAAGGGGGAAGAAGAAGGAAAA G G G G G C A A A G G GAAAA A A A A C C C C GAGGAAAA A A A G GAGAGGG GAACCGGGACCGACAGGGACCCCGAAAAAAAGGGGAAAAAAG GAAA A A A A A A G GAGAGGGGGAGGGAGGAAGAAGAACAAAAAC AAGCCGAAAGGGGAAAAAAGAAGGGAGGGGAGGCCAAGACCG AACGGCCACAAGAAGGAGGGAGGAGAGCCAGAGGAGGGGGGC C G G G GCCAGAGAAAAAAAGGAAGGAAGGGAACCGGCCBAAAA GAGGAGAGAAAGGGGGGGGGGCCAGGGACAGAAAGGAAAGGA GAAGGAAGGAGAAAGAAAAGGGGGAGGGGAACCAGGAAAGGA C G GAAA A A A A GAAAAGGAAGAAACAGAGACCGGGAAAAAGGG GCCAAAAAAAGGGGGAGGGAAAAGGAAGGCCAGAAAGABAAAA G G G GAA A G G G G A A A A A A G G GAACGGCCGGCCAAAAGAAAA G C CAGGAAAAAGGGGGGGAAGGAAGAGGGGGAGGGAAAAGAAAA $G G A C A A A A G A A G G C C A A G G T A A G G G G G G G A A A G G G A A G A G A G$ GAGGAGAAGAAAGAAAACAGAGGAAAAACAGGGAGAAAGAAG GAAGGAAGGGGAAGGGGGGAAGGGAGGAAGGAAAGAAAAAAC

AAAGAGGAAACAAAAAAAGAGGGAGGAGCCAACCAGGAGGA $A C A C C G A G G G G A A G G C C G A C A G G A A A A A A A A A G A A A A A G A G G$ A A G G A G G C C G G A A G G G A A G G G G G A G G G G G A A A A A A A G G A A G A AAAAGAGAGGAAGAGCAAGGAAGGGAGGAAAGGGGGAAAAGAC AAAAAGGAACCACCCGAGGAAAGGGGAGGCCAGAAAGAAAAA GAAGACCAGAGGAAAGAGGGGGGAGCACCAAAGAGGABAACA GAGGGGGAAAAACGGGGAGAAAAGGAAAAAAGAAGGGAGABA $A C C A A G A A G G G A C A G A A A G A G A G A C G G G G A A A A G G T T G G G G A$ AAAGGAAGGGGCCCCCCAAAAGGGGGGGGGGAAGGAACAAAG G G GAACCAACCAAAAGGGGAAAACCGGAACCCCGGAAGAAAA A A A A A G G A A G G G G G A G G A T A A G G A G G G A A G G G A A A G G G G G G A T G G G G G A A C G G G G G A G G A G A G A G A A G G G G A A G G A G A A G G A G A GACAGAAAGAAGGGAGGAGGGAAAAGGAACCCCGGGGGAAAA A G GCC G G A A G G A A A A C C G GCCAAAAAAAAGGGGAAAAGGGGA $A C C G G A A A A A A G G C C G G C C A A G G A A G G G G A A A A G G G G G A A A A$ A G G G G A A G GCC G G A A G G A A A A GAGAGGGGAAGGAAGGAACAG G A A A A A A A A A A A A A A A GAAAGAGGAAAAGAGGAGGGGAAT TA A G G G G A A G GCAGGCCGAGGGGAGGGAAAACCAGGGGAAGGGG G G GAGCAA G GAGAAAAAAAGGGGAAAAACAAGGAGGGAAAAC CAAGGGGGGCCAAAAGGGAAGGAGGGGAAACGAGGAAAGGAA

G G GACCAAGAGAGGGGGAGGAGGGGGGAAAGGGGGGGGAAAA A A A A A A A A A G G G G G GAA A G A A A GAGAGGGACGGAGGAGACAA AAAGGAAGGAGGAAAGAGGAGAGGAAAAGAGAGGGAAAAGGG GAGCAAGAGGGAGAGAAAAGAGGAAAAAAAAAAAGCAAAAGA GAGAAGGCCGGAACCGGAAAAGGAAGGGGCCGGCCGAGAAGA GA $\operatorname{G} A \mathrm{~A} A C A \operatorname{A} A C G G A G C A G G G G G A G G G G A A A A G A G G C C B A A T A$ CA $\operatorname{G} G A \operatorname{A} G A A A A A A A A A A G G A A G G G A T T A A G A G G G G G G G A G A C$ CTTCCGGGAGGGGAAGGGGGAAAAAACGAGAGACAAGAAAAA
 A G GAAAAGGGGAACAGGAGAAGGGAAGAGAGGAGGGAACACA $A C C A C A G A G G G G G G G C A A G A A G C A G A A A A G G A A C A A G G A G G A$ G G A A A G A A A G G A G G G G A A G A GAGTAAGACAAGGGGGAAAA GA ACAGGAACCCAGGCAAGCAAAGGAGAACCGGGGCBACCACCB $A C C A A G A A G C A A A C C C A G G G G G G G G A A G A A A A G A A G G G G C C G$ GAC C G G G G G A T A A A A G G G A G G G G A C G C G G A G G A A G G G G A G G A G GAA A G G GAGGGGGGAAAAAAGGAAGGGGGGGGCCAAAGGGA A A GAA $A \operatorname{GCA} A A A A G G G A G G A A A A G G G G A G C C G G G A G A A A C C G$ $G C C A A A A A A A A A C C C A A G A C A C C A A T A A G G A C A G A A C A G A A G$ G G G A G G G G A A G G G G GAGCAGGAAAAGGCCAAACAC GAAAAGG G G G G G A A A A A A A A G G G C C A GAGGGAAGGAGGGGAA G G G G G G A G AGGAAGGACAACCAAGGAAGGGGAAGGAGGGAAAAGGAAAAA A G G GAA $A \operatorname{GA} \mathrm{~A}$ G A A A A G GAACCAGGAGGGAAAGGAAGGAGGGG ACCGAGGGAACGAAACCGGCCGGAAGAAAAAGGGGGGGAAAA GAAGAGAGAAGACAAGGGAGGAAGGAGCCGGGGAAGGGAAAG A G G A A G G A A A G A G A A G G G G A G A A G A A G A G A A G G A A G G G A G G G G G G GAAAGACCGGGGGGAAGGAAAGAAGAACAGGGAGAAAGA G GACCAAAAAAAAGGAAAAAAGAGAGGACGGAAAAAACBGGA A G G GAGGAAGGCCAACCACGAGAGGAGAGAAGAGGABAAGGG GCACCGGCCAAGGGGAAAGAGGGAAAAGGAAGGCCGGAGGAG GAAAAGGAAAAGGAAGGGGGGGGGGAGAGGGGGTTAAAACCC CAACC G G G G A A C C A A G A A G G A G G A A G G A A A A C A A A G G A A G G A A G GAGAGCGAAAGAGAAAGGGGGAGAGAGGAGGGGACAGCCG G G G G G A GACGAGGACAGAACAGGAAAGAAAAAAGGGGAAAAG GAGGAGGGGACAAAAGGGGGGAAAAGGCAAGCCAGACGCCBA
 A G G G A A A G G A A G G A A A A G G A A A TAAAAAAA A G G G G G G G G G G G A G GAGGAAGGAAACGAGGGGAAGGAGGAAGGGCAAAAACAAAG G G GAACCAAACAAAGGAAAGGGGCCAAAACCGAAGACCCGGA A CA $A \operatorname{G} A A G G G G G G A G A G A C G G G G G G G G A A A A A A A A C C A G C A A$
 $G C G G A A G A A G G A G G G A A G G C C A A A G G G G G A G G G C C C C C A A A G$ G G G G G A A A A G G G GCCAACCAAAAGGTTAGGGAAGGGGAAAAC CAACCGGAACCGGAAGGGGAAGGAAGGAAGGAAAAAAGGGGG G G GCCAAGGAAAAGGGGGGGGAACCAAAGGGAAAAAGCAAAG AAAAGCCAGAGGAGAACAACCAACCGGGGGACCGGAGCCGGG GAGAGGGCGAAGGGAGGGAAAGGAGCAGGGGAACCAAAAAAA
 A A GA $\operatorname{A} A A A A G G G G A G A C A A G A A A A A G A A A G G G G A A G G G G G G A$ AAAGGGGGGGGGGGGAAAAGAGAGAAAGGAGAAGGAAAAAAC C C C G G A A $\mathcal{A} G G G G G G G G G A A G G G G G G G G G A G G A A A A A A A A A G G$ AAAGAGGGGAAAAAGGAAGAGCCACAAGGAGCCCCAAAAGAA C G G G G G G G A A A A A G GA $A$ A $A \operatorname{ACAAA} A G C A A A G A A G G G G G G G G G A$ AAACCGAGGAGCAGGGGCCAAGAGGGGAGCAAGAACCAAGGG GAACCAAAAAAGGAGAGGGGAGAAGGAGACGACAAAGGGAGC A GAA A A G G A A A G G G G G G G G G G G A A C G G A A C A G A G A G G T T G G A A GAA $A \operatorname{GGGGGACACAGCAAAAAGGAAAAAAAAGAAGAAGAAAG}$ A GAAGAGAAAAAACAAGAAAAAACCGAGAGGCCAAAAAAGAG GCCCCCCGGGGGGGGGGGGAAAAACAGAGAGAAACGGAAAAG G G G G G A A G GAA $A \operatorname{GGAA} C A A A A G G G A A A G G A G A A G G A A G A C A A$

AAGCCAAGGGGAGGAGAAGCAAAGGAGAGAAGGAAAAAAGGC C GAAA $A \operatorname{G} G A A A G A A A G G A A G C A G G A G G A A A G A A G G C A A A G B C$ C C C G G A A A A G G A A A A G G G GCACAAACCGGGGCCAGGGGGAGG G G G GAA A G G GAGGGGGGAACCAAAGGGAAGGGAAGAGAAAAA CAGGGAAAACCGGGGCCGAGGCCGGGCAAGGAGGGGGAGCAG A A GA GAAAAAAGGAAAAAACCGGAGGAAGAGGGAAAGGGGGG
 GAAGAGAGGAGGAGGCAAGGGAAAAGGAGAGGGBAGAAGGGG A G G A A A $\mathrm{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAGGGGAGATAAGACGGGAAAGAA AAGGAGAGGGGAAGAAGGGCCGGGGGAAACCGGAGGGAAGGC CAAAAGGAAGGAAGGAAGGGGAAAGAAAAAAAAAA GGGGGGG
 GACAAAAGGGGAGCCAAAACCGGAAGGAAAGAAAAGGGGCCG $A G A A G A G G A G A G G A G C A C C G G A A A G A A A G A G G G G G A G A A G G G$
 CAGCCAAAGAGGAAGAAGGGACACCAACGAAAGAGGCAAAAA GAA $A \operatorname{GA} A G G T T A G A G C C G A C A A C G G G G C A C A G G A G G G G G G G A$ GAGGAGACCGGGGGAAAGGAACCAAGGGAGGAAGAAGGACAA GAGAAAGAGGGAGAAGATTAAAAGGAAAAAATAAGAGGGGGA A G G G G G G C C A G G G G G A G G G G G A A G G G G A A C C G G G G G G A A G G A TACAAGGGGACGAGGCCAGGGAAGGGGGAGGAGAAAAAAAAA AAAGGAAAAGGAAGGCCAAGGAAAAGGAAGGATGAAACAAAG GAA A G G G G G G G G G G G G G G G G G A A A A A A A G G C C G G G G A A G G G G A AAACCAAGGAAAAAAGGAAAAGGAAAAGGAAGGAACCAAGEG GAAAAAAAAAAGGGGAAGGAGAGAAAAGAAGGGAGGGGAAGG GAAGGGGAAGGAAAATXCCGGGGGGGACCGCAGGAGAAAAAA A G G G G G G G G G G G G G A A C G A G GAACCAA G GAA A A A GA GAA G G A CAAAGGAACGGCAGGGGGGAGAGGGAGAGAAGAAGAGGAAGA A G GAA A GAA $A \operatorname{ACC} C \subset G G G G G A G G G G G G A A A A G G A A C C A A A A A$ AGGAAGGCCGGAAGGCCAGAGACGAGAGAGAGGGGCCAAAAA A G G A A G G A G A A A G A A G G G G A A G G A G G G G G G G A A A A A A C C A G A AAAGGAGGGGAGAGGAAAAGGAGAGAAGGGGCAACCAAAAGA
 A A G G G G G G G G G G G A A G G G G A A G G G G T T G G A C A A A A G G G G G G C CAAGGGGAAAAGAAAAAAACCAAAAAGAAAAGGGGGBAAGAA
 A G G G G G G G A A G G A G G A C G G G G G A G G A G G G A A G G A A A G G G G A A G G GAGACGAGAGGGAGAAGACAGGAAAAGGGAAAAAAGGCCA A G G G A GCCCGGAGCCGGAAGGGGAAGGAAGGCCAGCG
A A A C G A A G A A GAGGGGGGAGACGGAAAAAGAAAAAAGGGGA CAGAGGGACAGAAAGAAGGAAGGAGGAAGAGGGGAGGCABAA A A A C A G A G G A A A G A G G G G G A G A G G G A G G G G A A G A A G G A A A G A A GAAAACGAGAAGGGAAAAGGAAGGAAGGAAGGCCAAGAAAG G G G A A A A C C A A A A A A G GAAAACCAAAGGGGAAGCACACAA GA GAAGGAAAAAAGGAAAAGGGAAAAGGGGGGACCGGGAGAGGB GAAAAAGGGCCAAGGAAGGGGAGGAAACCGGGGCGGAGAGBA GAGGGGAGGCAGGAGGAACGAGAGGGAGAAAAAAAGAAAGGG
 AGGCCGGCCGAGGAAAGCCGGAAAGGGAGGGGGGGCAGGAGG
 G G G A A A A A A G G G G G G G G A A A GAGAAAAAACACAAGGGAAGAA GACAGAGAGGGAGGAGGCAGAGGAGGAGAGAGAAAAGAAAAA A A G G A A G G A A C G G A GAA $A \operatorname{GA} A G G A G A G G A C A A A A C C C C G A G A A$ A G GAGGGAAAAGGAGGAGGGGAAAAGGGGGGGGAAAAAAACAC C G GAA $A \operatorname{GAA} \mathrm{~A}$ GAGGGACCCGGAAGGGGAGAAGAAAACCAAAG
 GCCCCGGCCGGAACCAGGGGGGGAGAGGGAGAAGGGAAAAAA G A A G A G A A G G G GA G G C CA $\mathcal{A} G G A A A A A A G G A G A A A A A G G G G G G$ GAAGGGGAAGGGGGGGGAAGAAAGGAAAAAGGAGAAGGAAGA

ACATAAGGGGGGAAACCGGAAGAAACCAACAGGGGGAGAGAG A G A A G A A A G A A G G A G A A C A G A A A G G A G T T T T A G G G G G G G C C G A G G GAA $A \operatorname{CCA} A \operatorname{A} A \mathrm{~A} A A A G G A C A G A A A G A A C C A A G G A A G G G G A$ A A A A A A A A A G GAAAAAGGAAAAGAACCGGCCAAAAAGGAGGA A ACGGAAGGAAAGAAACGACCGAAGAAAAGGGGGGAAAAGGT TGGAACCAAGGGAGAGAAGCAACGAGGGAAAAAAACCGAGBA AAA A G G G G GAGAAGGAACCGGCCAAAAAAAAGGGGGGGAGAA AAAAAAAAAGACAAAGGCCTAAAAGGAGAAACCGGGAGAAGG GCCGGGGGGGAAAAAGGAAAAAAAGAGCAAACCCCGBAAAGA A G G A A A A A A A A A A A GAAAACAAAGAAGGGGGGGACAGGGTTA A G G GAGGAACCGGCAAGAGGGCATTAACCGGAAGGGGGGAGC C GAGAGGTAGGAACCAAGGAAGGAGAAGAAGAAGAGGGAGAA G G G GA $\mathrm{G} G \mathrm{G}$ GAACGAGGGGAAGGAAAAAGAAAGAAAAGAAAGGG GAAAAGGACAGGGAAAAGGCCAGAGAAGGAGAACAGGGAGGA AAGAGCCACGGAAGGGAGGAACCAGAAAAGAACGCGAAAAAG GAAAAAAAAAAAAAAGAAAAAAAAAAAGGGGGGGGAAAAGGG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA A A A G G A A G GAAAAGGAAGGAACCGGAAAACCAAGGGGGAAAA $A G G G G A A A A G G A A G G G G A A G G A A G G G G A A G G G G G G A A G A A A A$ A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G GAA G GAAAA A G A A G G G GAAGGGGAAAAGGGGAAAAGGGGGGAACCAACCGGGGA A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGG $G C C C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G A A A G$ GAAGGAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAAC C G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGAAAC CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACCAACCB GAACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGG G G G A A G G A A G G A A A A G GCCAAAACCAAAACCTTGGGAAAAAA $A C C G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C A A A G$ GCCGGGGGGAAAAGGAACCAAGGAAGGGGAAGGGGAAGGCCG
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G G G G A A A C A A G G G G A A G G G G C C G A G G A A G G G A T T A C G G G G G GCAAAAAAAAAAAGGAAAAAAAAACAGGGGAAAGGCCGAAAAG
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 C C A C C C C C C G G A A G G C C GAGGAGGGGGAAAACCCCAAAAA GA G G GCCAAAAAAAGAGGAAGAGCCAACGGGTTAGAGGGCACAA G G G G G A GAAAGCCAGAAAAAGGGGAAGAAGGGGAGGGCAACC C G GAA $A \operatorname{G} G A G G G A G G A G A G A A T T G G A A A A G G A A G G G G G G C C A$ A G G GAGGCCAAAAAGAGAGGGAGCCCCGAAGGAAGGAAGACG $G C \subset A G G G A A G G A A C C G G A A A A A A G G G G G A A C G A A G A A G A G G G$ $G C C A A A G G G G G A G G G G G G G G A G G G A G G G A G C G G G G A A A A G G A$ $G C C G G A A A A G G C A A A G G A A A A A A A G G C G G A G G G A A A A G A A G A$ G G G GAGGAGAGACGGAAGGAAAAGGCCCCGGGGAAACGGGGA A G G A A GAACGGGAGAGGGGCAGGACAGAAGGGAGGGGAAAAA GAGAAACGGAGACAGAAGGAGGAGGAAAGAGAAAACCAAGAC C C CAAAAAAGGAAAAAGCCAAGGGGGAGACCGGAAAGGAGAG A A GCC G G A A G A A A G GAAAGAGCCGGGAGAGGAAAAA GA GAA G G GAGGGGACAAAGGGGAAAGAAGGGGGAAAGAAACGGAGAAA

AAAAAGGAGGGAAGGAAACGGAAAAGAGGAAGGGGAAAAGGG
 GAAAAGAAGGGGGGAAGGAAAAAGGGGGGAACCAGAABACAA A A A A ACCTAGGAAAACCGGGGAAGGGAGGAGGAGAGGAGGGA $C G G G A G G A G G A G G G G A G G G C A G G G G A A A G G G G G G G A A G G A G G$ A A A G G G G G A G G A G G GAGGAAACCAACCAAAAACGGA GAAGGG A GAGGGGGGAAAAGGGGAACAAGTTGAGGAGGGAAAAAAGAA

 C GAAGGAGGACAGGAGAAGGAAAGGCAAAAAAAGGAGGGGGA TAAGGGGAAAGGGAAAAACAGGGAAACGAGAAGAAGGGAAAAA GAAGGAGGGGAGGGGAAAGCCCCAAGGAAAACACAGAGAGAA GCCGGAAGACCCAGCAGAAAAGGAATTAAAGCCAAAGAAGBA A A A A A A A G GAGGGGGAAGGGGCCAGCAGGGGGAAAGAGAAAA GACCAAAGACCGGAAGGAAAAAAGGGGAAAACCAGGGGGGGA G G GAA $A \operatorname{GGGA} G A A G G G G A A G A G A A A C A C C G A A A G G A G G A A G C$ A GAGGAAAAAAGGAAGGAAGACCAAAAGGAAAAAAAAGAGGA GAGATGAAGGGGGGGGGGGAAGGAAGGGGAAGGCAAAGGGGC CAAGGAAAACCAAGGGGCCAAGGGGCCCCGGAAAAAAAAAAG GAAAAAAAAAAGGAAGGAAAAAAGGGGGGGGGGCAAGAAACA GAGAACAAAGGGGGGGGAAGGGGAAGAAGAAAAGGCAAGGAA ATAATAGAGCCACCAAGAGACGGGGAAAGCCGGAGAAACAAG A G A G G G G G GCCGGAACCGACCGGGGGGAAAAGGAAAACACAA G G G C A A C G A C C G A G G A A G G GA G G C C A A A A G GAGGG G A TAA A G G G G A A G G G G A A G A A G G G G A A A C A G G G GACAGGGAAAAAA A G A GAAGGGGGGAAAAAAAGAGGGAGGGGAAGAGGGGAGACCACA A G GAGCAGAACAGCCCAGGAAAAGAAAAAGAGACAAGAAAGG GAGAAGGAAAGGGAAAACCCGAAGGGGAAGGAAA GAGAGGAG G GACCGAAGGGGAGGAGGGAGAGGGGGAAAGACGGGGAGAGG G G G G G G G G GAACAAATACCAGAAAAGAGAGACAATGGGAAA G A G G G G G A G GAAAAAAAACCGGCCAGCCGGAGCCAACCAAAAA AAAGAGGAAGGGGGAAGGGGAAAGGGGAATTAGACAAAAAAA GCCGAAAGAAGGGATAGACAGGAAAGAGAAAGGGATTAC GAA A A A G G A A G G A A A A G GCCAAGGGCCCAACCGGGGAGCAAAGBG ACAAAAGCAGGGGAAAAAACCGGCCGGAAGAAAAAGGAAAAA A A TAAAAAGCAAGCCAACAAAAGACAAAGAAAGGGGAGCCCG GTTAAAGAAGAAGACGGGGGCGAGAAGGGGACAAAAAAGGA AAAGAAGGGAAGAGAGAGACAAAAAAAGAAGAAACAGAAAGC A G G A C A GCCAGGGGGAGAGGGACGAAGTACCGGACGAAGGAA GAAAAAAAAAGAAGAAACCGGAGGGAGGGGGCGGGAGACCCB AAGAAGGCCCCGAAAAACCAAAAAAGGGGAAAGAAAGAAAAA A G A C A A A G G A A A A A G G A G A G G T T G G G G G A A A G G A G A A G G G G G AGGAGGAGGAGACAGCCGGAACAGGAAGGAAGGGGAAGGGGA A G G G A A A C C G G A CAAAAACCCCCGGCCCCGGCCAAGGAAAAA A A A A C G G A A A A G GCC G G G G A A A A G GAGAGAAGGA G GAAA A A A G
 A A G G G A A A A A G G G G G C C A A G G A A G G G G A G G G G G G A A G A A G G G GAAGGGAAACGAGAGGGGGGGGAAGAGCAGGAAAGAAAAAAG GAAAAGGACCGAGAGGGAGAGACGGGGGGCAAAAACCTXAAG G G G A A C C A A G G A A G A G G A G A G TAGGAAAAGGCAAGAGGAAAG GAGGAGAGGAAAAGGAAAAGAAGACGAAGCAAAAGGGAGCCG
 A G G A A G G A A A A A A G G G G A A A A A A G G A A G G A A A G A A GA G G C C G GAAAGAAGGAAGAAGGAGAGGGGAAAGAAGGCCGGAGAGGGG G G G A A G G A GACAA A A G G G G G A A G A A A G G G G A A A T A C A A G A G G A
 A G GCCGGAGAAGAGAGAGAGAAGCCAGAAAAGGGGCCBAAAC C G G A G A G A A G G A G C A A A G A A A G G G G C A A GAGAAAAC A A A G G G AA $A$ A A A A G GAGGGAGGGAAGGAGAAGAAAGGGGA GAAAAGGG

GAAGAGGGAGGAAGGCCGGAAAAGGTTAACCGGCCAAGGGGA A A A A A A A G G G G A A A A A A G G G GCCGGAACCAAAAGGAAGAAAA A G G A A A A A A G GCCAAAAAGGAAGGGGAAGGAAAAAACCTTGGG GAAAAGGCCAAAAGGAAAAGGCCCCGGAAGGAAGGAAGGGGC CAAAAGGAAAAGGGGGGGGGGAAGGGGAAGGAAAAAAGGGGA A A A G G A A A A A A G G A A G G G G G G G G G G G G A A C C C C C C C C C C A A G GAA A G A A G GAAAAAAAACCGGGGCCAAGGAAGGGGGGGGGBA ATTGGGGAAGGAAAAGGGGGGGGCCCCAAAAAAGGCCAAGGA ACCGGGGAAGGCCAAAAAACCGGGGGGGGAAAAAAAAAAAAA A A A A A A ACCAAAAAAAAGGAAGGGGAAAAGGAAGGAAGGGGC CAAAAAATTAAGGGGGGGGAAGGAAAAAAGGAAAGGGGGGGG G G G A A A A G G G G A A G G A A A A C C A A A A C CAAAAC CAA $A$ A G G G G G G G G G G G A A G G G G G G A A G G A A A A A A A A A G G G G G G C C G G G G A A G G A
 CAACCGGAAAAGGGGAAAAGGAAGGGGGGGGGGAAAAAAGAA A G G G G A A A A A A A A G G G GCC C C G G G G G G G G G G G G G G A A G G C C A A A A A A G GAAAA A G G GAA $A \operatorname{AGGGAAAAAAAAGGAAGGAAAAAAA}$ AAACCGGGGAAAAAAAAAAGGAAAAAAAAAAGGGGCCABAAG GAGAAAACCAAGGAACCGGGGAAGGGGAAGCAAGGGGCAAAB
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A GAA $A \operatorname{GG} \operatorname{GAGGCCA} A G G G G A A G G A A A G A A G G A A G G A A G G G G G$ GAAGGGGAGGGAAGAGAGGGAGGGGGGAGACAAAGCCAGGBA
 A A A A A G G G GAAAAAGGGACAAGGAAAAGGGGAAGGAGAGAAG GAAGAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCABAAG GAAGGGGAAAACCGGAAGGGGTTAAAAGGCCAAAAAACCCCG G G G G G G G A A A A G G A A A A G G G G A A A A G G G G A A A A A A G G G G A A G G G G G GAA $\operatorname{G}$ GAAAAAAAAAAAAGAGGAAGGGAAGAAGGAAACCB G G GAACCGGGGAAAGAAAAGGGGAGGGAGGGCAGAGAAGAAC CAGGGGGAAGAACAAAAAGCCAAAAAGAAGAAGCAGGCAAA G GAAAAGGAAGGAAGGGGGAGGGAGGAAAAAGGAGAGGGAA GA A A G G G G G G G G A A A A A A GAACCGGCCGGAAAAAAGAGGGAAAC CAGAAGGGGTTGGCCGGAGAGGGGAAAGGAACCAAAAGAAGA G G G G G A A A A G G A G A A G G G C A G C A A CA GAACA A A G GAC G G C C G AGAGGAAAAGGAAGAGGGGAAAAGGAAAGAAAGCCAAGGAAA A G G G G A A G GAAAAAAAAAACCAAGGCCGAGAGAGAGAA GAAA AGGCCAAAGGGAAAAGAAAAGAAAAAGAAAAAAGGAGGGAAG G G GCCGGGGAAAGCCAAAGAAAAAAAAAGCCAAGGAAAAAGA A A A A A G G G G G A G A A A A A A G GAGGATGGGGACCCGGGGGAAA G AAAAAAAAGGGAAAAGAGGAAGAGAAAAAAAAACCGGAAGAG

GAAGGGAAAAGAAGAAAGGCCAAGGGGGGGGAAAGAAGGCGA $A C C C C A C G C A G A A C A A A C A G G A A A A A A G G G G A G A T A G C C G A A$ C G GCCAAAAAGGGGGAAGGGGGGGGGAAGAAAAAGAAAGGGG A G G G G G GAAAACAGGAAGGGGGAGAAAAAGGAGAGGGGGTTA AACGAAAAAAGCCGAGGAAAGAGAGAAGGAAAGCCAGACAAG $G C C A A A G G G A G A G A G A G A A A A A A A G A A A A C C T A A G A A G A A G G$ G G G G G G A A A A G A A A C G GAA A GCCGGAC GAAGAA GAGGGAAAA A G G A C A A G G G G A GAAAAAAAAGGCCGGGGGAAGAG GACAGGA GCCGAAAACAGTTGGAAGGGGGACCAAGGGGCCCCAACAAGB GAAGGGGGAGAGGAAAGGGAAGCAAGAGAGATTCCGGGAGGA $A C A G A A G A G G G A G G G C C A A G G G G A C G G A G C A A A G G G G G A C A C$ ACCAAAAGAACAGGGGGAAGGCCGAAAGAAAAAAGAGGAGAA
 G G G G G G G G G G G G A G G G G A A C C A A G G CAAAAAAACAA G G G GAAC GAGAAGGGGAAGGGGAAGGGGAAAAAGGGAGAGAGGAAAAAG G G GAA $\operatorname{A} A A G C C A A A A G G G G A T A G A C A A A G A A A A C C C C A G A A A$ A A ACCAAGGCCAAGGCCCCAGGGCACCAGCCACGGGGAAGGG A A A G A G G G G G G G A G G G G G G G G A G A T G A A GAGCAA G CA G G A G A AA GAACAAAAAGGGGAAGGAAAAGGGGGGAAGGAAGGGAGGC A $G G G G G A C A A G A A A A G G G G A A G A G G G G A G G A G G C A G A A G G G G$ GCCGGCCAGGAAAAACCCCGGGGGGAAGGAGAAGGCAAAGGG G G G G G A G G G G G GAA A $A$ A A $C A G A G G A G A A G A G G G G G G G A A A G A A$ A A A G GCCAGAAGGGGAAGGAAGGGGGGAACCGGAAAGAAAAG
 A A GA G A C A G A A G G G G A A G G G G A A A G A A A A G G G G G G G G A A G G G GAAAAGGGGGGAAGGAAGGGGGGCCAAGGGGAAGAAAGGGCG G G GCAACGGGGAAAGACAGAACCAAGGGGAAAAGAACAAAAG GAAGGAAGGGGAAGGCCGGCCGGCCAAGGAAAGGGCCGGGGA
 G G G G G G G A A G A A C G A G G G A G GAGAACA G G CAA A A A C C G G G G A G G G G A A C G A A A G G G G G C A G C A A C A A GAGGCC GAA G G G G G G G A G GAGGGACCAGGAACGGGGTAAAAGACGGGGGAGGAAGGCCA A GAGGCCGGAGAAACAAAAGGGAGGAAGAGGCCGGAAGAAAG A G A A A C C G A A A G GA A A A GAAGCACAAAAAGGAC GAA GAG GAA G G GCCGACCAACCGGAAAAAAGAGAGAGAAGGAACBAAAGGG A G A G G G G A A G G A G C C A G G G G G G G G G G A C C C A G G G A C C G A G A A GAAATAGCCGGGGGGAAAAAAAGACAGAGAAAGACCAAAAAA A G G G G G G A A GAAAAGAACCAAGGAAAAGGAAAAAAAAAAAAC C G G G G G G A A G G A A G GAA $A \operatorname{AGGGAAGGCCAAGGGGAAGGAAAAA}$ A A A C A A A C CAA GAAAAAAAAAAAAGAGGGGGAAA GAGGACAA A G G G G G GACAGGGAAGGAAAAGGAAGGGGCCAAAACCAGGAA G G G G A A A A A C G G G G G A A G G A G G A C C A CAAACAA G G G G G GA G A G G GACAACCGGGAAGAAAAAGGAGGAGGGACTTCAGAAAAAA A A G G G G G G G A A A A A A G A A GAAAAAA $A \operatorname{A} A A A C G G G G G G A G G G G G G$ A G G GACACCAAGGGGGGAAAAGGAAAAGAGAAGGAGAAGAAA AAGGAAAAAAGACCCAAAGGAACAAAAAAAGGGGGAAAAGAAA C G A G G G G A A A A A A G G G G G G A G A G A C G A A C G GAAA A A CA G G A A A G GAGACACAGAGAGAAACGGAGGAAGGGAAAGACGAAAAAG G G GCCAGAAGGAAACGGGGGGCCAAAGGGAAAGAGGAGACAC A G G G A A G G G G A G G G A A G A A A A A C A A A GAGAGGAAGAAAAAA $A$ G GAGGGGAACCAAAGAGAGAAAGAGGAGAGAAGGAGGGAGAA AAAGAGAAAAGCCAACAAGGGGGGGGACAAGAGGGGGGAGGG GAACCGGAAGAAGGGGGGGACAGAGAAAAGGGGAGAAGAAAA AAAGGAAGAGAGGAAGAGGGGGGCCGGAAAAGGGGAAAAAAG G G G A G G G A A G G G G G G A A A A G G A A G G A A G G G G G A G A G G A A G G A GAAAAAGAAAAAGGGACAAGGGAGGAAGGGGGABAAAGGGGA A G GA $\operatorname{G} G A A A A A A G A G A G A A C A G G A G G A A G G G G G G G A G A A G A A G$ A A A A A A GAGCCGGAAAGAAAAAAAAAGAAAAGGGGGAAAAAG $G G G C C G G A G A A G A G G A G A G G G G A G G G A A A G G A G A A G G A A A A G$

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 G GAAAGGCAACAAAGGAAAGGAGAGAAAAGGGAGGGAAAAAC CAAGGGGGGCCGGAAACGGGGCCAACCAAGGGGGGAAAGGGG GAAAAAAAAGGGAGGCAAAAAGGCCAGGGGGAGAAAGAGAAA AAGAAAAGAGGTTGGGGGAGGAAAAAGAAGAGAGAAAACAAA ACCAAGGGAGGAACCGGAACCAAGAAAGGAAGGGGGGGAAAA AAGAGGAGGACGAACGGAAACGGACGAAGCCAGGAAAGAAAA G G G G G A G T T G G A G C C G G G G GACCGGCACCAGAACC G GAA G G A A G G A A G G A A G G A A G G A A C C G G G G G G C CAA G GAA G GAACCGGG GAAAAAACCAAGGGGGGGGAACCAAAAAACCAAAAGGCCGGA A G G G G A A G GCC C G A A G G G G G G G G A A A A G G A A G G A A A A A A G G A
 A A A A A A A A A G G G G A A G GAAAAAAAAGGAAGGAA G G GA GAA G GA A G G G G G G G G G G C C G G A A G G G G A A A A $\mathcal{A} G G G G G G G C C G A A A G G C$ C G G G G C C G G A A G G G G C C A A G G C C C C G G G G G G G G G G G G G G G G A AGGAACCGGCCGAGAAGGGGAGGAGAGAAAAAACCCCCAAAA A A G G G A G A GAGGGAGGGAGGAAGAGGACCCAAAGACAGGAGC AACGGGAGGAAAGGGCCAAAACAGAGGGAAAAAGAGGGGGGC CAAAAGACAAGAAGGGGAAAGAAGGAAGGAGGGAGGAAAAAA A A A A A A GA $\operatorname{A} C A A C A G A A G G G G G G G A A C G G G A C A G G C C B A G G G$ G GAAAAAAACCAAGGAGACGGAAGGAAACGGAAAGGGGEAGA CAA A GA A A A G GAAA A G GAAAGAGAAGGGAGGAA GAGGGAA GA A A A G G A G G G A G A $\mathcal{A} A A G G G G A G G G A A G G G G G G G G G G A A C A A A G$ GAAAATAGGAGTAAGGGCAGGGAAAAAGAGGGGAGGGGGGGG GAGAAGGAGAGAAAGAGGGGAGGGGAAGAGGCACAGAAAGAC C C CAAA A G GAACCAGAAAAGGCCAGAAGAGAAGAAAGGACCA AAAAAGGAACAGGCCAAAAAAAGAAAAGAAGAAACAAGAAAA C GAGGAAAAGGGGAGGGAAAAGGAAGGGGAGAGGGCAAAGGC CAACCCCCCAAAGGGAAGGAAGGCAGCGGGGGGAGCAGAGGG A GAGGAAAGAAGAGAAAGGAAAAAAAAGGGGCCGGGGCCGGG A G G G G A G A GAA A G C C G G A G A A A A A G GAGAGAAA A A G GAA A A G A GAAGGAAAAAAAAAGACCCCAAGAGAAGAACAGGAAAAAAG
 T G G C A A A A G G G A A A A A G A A G G A G G A C GAGGGGACA G G
C C G G G G A A G G A A CACAAGGGAGAGAAAAAAGGAAACCAGGG GAACCCCAAAGAAACAGGAAAGGGGAAGGAAGGGGAAGGGGG
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 A G GACAAGAGGGAAAAAGGAGGGGACCAGAACCGGAAGAAAC

CAAAACCGGAAAACCGGAAGGAAAAAAGGGGCCAAGGAACCG GAAAAGGCCGGCCCCCCAAAAGGGGGGAAGGAAAAAAAAAAA A A A A A A A G G G GCCAAAGGCCAAGGAAAAAAGGAAGGAAAAGAAA ACCAAAAAAAAGGAAAAGGAAGGAAGGGGGGAAAAAAAAAAA A G GAA A GAAAAGGAAGGGGGGAAGGGGAAAAGGGGAAAAAAA ACCTTGGAAAAGGGGAAGGGGGGCCAAAAGGAACCCCAGAAG GAAAAGGAACCCCGGGGGGAAAAAAGGGGAAAA G GAAAGGGGG GGGCCCCCCGGAAGGGGAAAAAACCGGAACCAAGGAAGGGGA A G G A A G G G GAAAAAAGGGGAAAAGGAAAAGGAAAAAAAAGAA AACGAGGAAACGGGGGGAAGGGGAAAAGGGGAAAAAAAACAA A A A A A A A G GAA A G G G G G G G G G A A C C G GAAAAGGAA G GAAAAA A G G G G A A G G A A A A G G G G A A A A A A A A G GCC G GCCAAAA G GAA C
 GAAGGAAGGGGAAGGAAAAGGGGCCGGAACCAAAAAAGGGGA
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 GAAGACCGGAGGAAAAGAGCCGGAAGAGAGGAACCAACCACC C G GAGAGAAGGAAAACCCAGGAAAAGGGAAAGGATAAAACCT TAAA A A A G G A A A A A CAC $\mathcal{A} G G G A A G G C A G G T T A A A A A A C C G B A$ A A GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAGGGGA AAAAAGGGGAGGAGAGAGGAAGGGGAAAGGACAAAGGAAAAA $G C C A G A A G G G A G G A A A A G G A G A A A A G G A A A A G G C C A A A A A G A$ GACGGAAACGAAACCAACCAGGGAAGGGGAAACGAAGAGAGC
 GACAAGCGGAGGGACATGGGGAACACGCCGACAGGAAAAAAA GAAGGGGAAGAGAAGGAGGCAACAGGAGGGGTTGGGAAGGGG G G GAACAGGAAAAGGAGGGACCCAAAGAAAAAGAGCCAAGAA G G G G A A A A A G A G G C A G G G G G G T A C A A A GAGGGCGC GAAC $\mathcal{A} A A$ A A A A C A A A G G A G G A A C C GAAGGGAAGGACGGACCAGAAAAAC C G GCCCCAAGGGGAAGCAAGGAGAAAGAAGGGAGGAGAGAAC C GACCGGGGAACAAAAAAGGAAGCCGCAAGGAAGAGACAAAC ACCACGAAAAAGACCGGCCAAGGCAGGACCAGGGAAGAAAAAA

 $G G G A G A G A A G A A A G G G A G G G A A A G G A A G A G G G G G G G A A A A G A$ $A C C G A A A A A A A A G A G A A A A G G G G G G G G A A G G C A G G A A G A A G A$ A G G GAAAAGGAGGGGAGAGGGAAGGCAGGTTGGGGCCGGGGA
 AAAGGGAGAGAAAGAAAAAAGAAAAAGAGAAGGAAAAA GA GAA A GAGAGGGGCCGAGGACAGAAAGGGGAAAGGGGACGGGGGGA
 GAGAAGGGGGGGGGAGGCCGACCGGGGAAGGAGAACAAAAGA GACCCGGAAGAAGAAAAAACCAGGGAAGGGGCAAGACAAGAA AAACCGGAAACAAGGAAAACCCAGCAGAAAAAGAAGAGCACA C GAA $A$ A A A A A A A A $\mathcal{A} G G G A G G A G G G A A C G A G A G G C C A G A A A G G$ G G A G G C C A A G G A G A G G A G G G G G G G G G G A G G A G G A A A G A G A A A
 GAAACAGAGAAGGAAAAAAGGCAAGCAGAGGGGGGAAAAAAG G GAAGAGAAAACCGAACAGAAAAGGAGAAAGGGGAAGAAACB G G G G G G G G A A G G G G A A G A A G G A A A A G G GAA A A A A A G G A A C C A C G G G G G A A G G G A G C A A $\mathcal{A} A G G G G G G G A G A A C A C C G G C A C A A G G$ GACGGCCAGACGAGACCAGAGGGAAGAGGCCGAAGAGGAGAB AAAAAAACCGGGGGGCAGACCAGGAGGCCAGAAGAGAAGAAG

A A A C A GAGGAGGGGGGGCCGGAAGGGGAAGGAAGGGGAAGGG GAA A A G G G GACAAAAACGGAGAGAAAAAACCAAGGGGGGGGA A G G G G A A A A C C G G C C G G G G A A G G G G G G G G G G A A C C G G G G A G C A G GAAAAGAAAAAGGGGGGGGGGAAGAAGACAGGGAAAAGCA $C G G A C G G G G G G G G C C A G A A A A G G G G A G G G G A G G G A A G A G G G G$ G G G G G A G G A G A C A A G A C G A G G G A A G G GACAA A A G A TA GA G G A GAGAAAGGGGGAGAGAGGAAGGAAGGGAAAAAGAAAAAAGGG G G G G GAAAGGAAGGGGGAGAAAGAAAAGGAGGAGAACAAAAG G G G A A C C G G A A G GCCAA A A G G G GCCGGCCGGGGAGAAAAA GA CAGGAAAGGAACCAGGGAGAGCAGAAAGACAAGAAAAGGAAC A A A A A G GAAAAGGAAAAAACCAAAAGGAGGACACAGAACAAA A G G G G G GA G GAA $A$ A A A $A$ A $\operatorname{A} C A A A G G G G A G A A A A G A G A C A A G G$ GAAAACCAAAGGGCCATGGAAATGCAAAAAGGGAACGAAGBA CAGCCAGAGGAGAGGGAAAAGTTGGAAGGAAAAGGGGGGGAC ACAAAGGGAGGGGAGGGGAAGCGGACACCGAAGGGAAAAAAG G G G G GA $\operatorname{A} G A G A G G A A A A A C C C A G G A A A G G A G G G A G A G A A A A A$ A G GAGAGGGAGCCCCAGAAAGAGAAGAGAGGAAGGCCGAGGA C C C C C C C A A G GAA G GAAAACCCCGGAAAAAAAAAAG GAAAAA AAAGGGGGGAACCAACCCCAAGGGGAAAAAAGGAAAAGGGGG G G G G G A A A A G G G G T T A A A A A A G G G G C C G G A A A A A A G G G G C C G GAAAACCCCAAGGTTAAAACCAACCGGAAGGAAGGAAAACCC C G G T T T T G GAAAAGGGGAAGGGGGGAAGGGGCCAACC G GAA G GCCGGGGAACCGGGGAAAAGGGGAAAACCGGAACCAAAAAAA $A G G G G G G A A G G G G G G C C G G G G G G A A A A A G G G A A C C G G A A G A G$ A GAAGCAGAGGCCGAGAGGGGAAGGAGGGAGAACCAGAAGAA GAGAGGAGACCGAGGGGACCAAAGAAGAGGACAAAAAGAGAA GAGGGGAGAGGTAGGGGAAAGGAGAAAGGAAGGGAAGAAGGG
 A G GAAA A A A A CAC $\mathcal{A} G A A G G G A A A G G G G G G G G A G G G A A A A G A G$ G GAAA A A A G G GAACCGGAGAGAACAAGGAGGGAGGAAAAAAA GAGGGGGGGAGAAAAGAGGAGAAACGAGAAGAAGGCAAAGAA G GAACAACCGAGAGAAGAGGAGGGGAGAAAAGGACGGGGAAA GAGAGGGAGGGAAAAGGGGGGGAAGGGAAAAACAGAAAAAAA GAGCCAGAAGGGGAGGAAGATAAGCAGGGACGAAGAAAGGGC CAAGGGAAAAGAAGGGGGGAAAAGGGGGGGGCCAGCCAAAAG G G GAGAAAAAAGGCAAAAAAAAGCCAAAAAGGGGGAAAAAAAG GAGAAGGAAGGACAAGAGAAGAACAGGAGAGGAGGAAGEGAG G G G G GA G G G GACAGAAGGAAAAGGGAGAGAAGGAAGACAAC G A A ACC GGAAGGCCCCAGAAAAAACCAAAGGAGAGAGG
G G G G A C A A GAGGGGGGGGGGCCCCGGAAGGAAGGAAAAGGC C G G A A A A A A G GCCGGGGAAGGCCGGAAAAGGCAGGAAAAGGA
 ACAAGGGGAAGGAGAAGTTGAAAAGGGACGGAGAGGAAAGGG A A GCAGGGGGAAACCAAGAGGGGGAAACACGAAGACAAGATA G G GAA A G G GACAGAACAAAGGACGGCCCAAAGAAAAGGAAAA
 GAAGGAGGACAGAGGGGAAGGAAGGGGGGGGGGAAAAAACAC AAGCAGGCAGGAGCAAAGGGAGGAGCAGGAGAACAAAGAGAA G G GAAGAAACCAAAGGGGGAAGGAAAACAGAAACCAAGGGGA AAAAAGGGGGAGGAGAAAAGGAAGGGGCCAAGGGGGAAAAAG AAACAGGAAAAGGAAAAAAAGCCGGGAGGAAGAAGGGCAAAA GA $A$ A A A $\mathcal{A} G G A G G G G G A G C A A C G G G G A A G G A C A A C C G G C C G G G$
 G G G G GA A G G G GAGAGCAGAGGGGAAAGAAGGGAAAAACAGAA $A A G C C G G A A G G G G A G A G A A G G A A G G A A C A A A A A G A G C G G G G G$ GACCCAGAGGGGGACAGGGAAGGGAGGGGAAGGAACAAAACG GACAGAAACAGGGAGCAGAGGGGCAAAAGAAAAAGAGGGTXA A G A G A A GCC CA A G G G G C G G G G G G C CA G C A A G G G G A G G A A C C A AAAGAGGAGGGGAGAGGGGAAAAGACCAGAAAAAGAGGGGGA

A G GAGAAAAGAGAGGAAGCAAAGAAAAAAGGAGGGAAAAGAA G G GAA $\mathrm{A} A \mathrm{~A} G \mathrm{G} G \mathrm{~A} C \mathrm{G} G \mathrm{~A} A \mathrm{~T} T \mathrm{G} A \mathrm{~A} A C A C A G A A G G G A C A A A A A A A$ ACAAAAAGGGGGGCAAAGGAAAAGGACAAAAAAAAAGCCCCG G GAAACCGGAGACAAGAGGAAGCCCAAAGCAGGCCACGGAGG G G G GAGGCCAAAAAAAAGGCAAAGGAAGGGGGGAGGAGAAGAC C GAGGGGCCCCAACCGGAAAAGGAAGAAGCCGGAGGGCAAAG GACGGGAAAAAGGGAGAGGCCGGAAAAAAAAAGGGGGGAAGA $A C C A A G G A A C C C C A A A C G G G A G A A A G G G G G G A A G G G A A A G G G$ G G A A A A A A A G G A GA G G A A A C C G A A A A A C G G GAAAA G G G GAA $\mathcal{A}$ GAAAAAGAAAAAAACGAAAGAGCGGGAAAAAGGGAGAGAABA $C G G G G G G C C G G G G A G A A G G G G A A A A G G G A G G A G G G A G A A C C G$ G G G A A G G A A A G A A G GACGGGGGGGGAGCAAACCAAGAAAAAG A A G C A A G G G G G G G C A G G G A A A G A G G G G G A A A A $\mathcal{A} A G G G G A A G A$ TAA A G A A $\mathcal{A} G A A G G A G G G G G G A A A A G A A G G G G A C A A A A G A G G G$ A G G G G GA $\operatorname{l}$ AAAAAGAAGAAGGGGAAAAAAAGGAAGGAAGAGAA AGACCCCAAGGGGGGAAAAACCCGAAGCCGAAGTTAAGAGAG A GACCAGGAGGGAAAAAAAAAGGCAAGGAGGGGGAGGGAAAA AAACCAAGGCCAAGAAAAAAGAGAGACAGGAGGAAAGAAGAG GAGGGGGGGGGCCGCGAAAAAAAAAGGGGAAAAAAGAAGGGG A G G G A A G G GAGGGGAGAAGCAGGAAGGAACACCGGACAGAGG AAAGGAAAAAAAAGGCCGGCCAAAAGGAAAAGGGGGGGGGGC C G G A A A A A A G G G G G G A A A A G G G G C C G G G G A A G G G G A A G G G G A G G G A G A C G G G G G G A A A $\mathcal{A} A G G G C A A G A G A A A A A A A G A A A G G G G$ A G GA G A G A A C C G A A A A A A A A A G G G G G G C C A A C G G G G G G G G G G GAGGGAGCAAAGAGGAAGGCCAAAGGAGGGGAGAAAAAAAAA A A G G GAAGGCCAAAAAAAAGGGGAACCAACCGGAGGAGAGAG AAAGGGGGGAACCAAAACCGAACGGGAGAAGAAAAAGAGAGAA
 G G G A A A A G GAA $A$ A A $A \operatorname{G} G A C C A A G A G G A A G G G G A G A G G G C C G B A$ C GAGGACGAAAGGAAGGGAAAGGGGGGAAAAAACAGGAAAAG GA $A$ A $C G G G G A G G G A A G G A G G A G G G G C C G G G G A C A A G A A A G G G$ GAGAGGGACGAGGGGGACAAGAGAGAAAAGAAG
$113113000-9 G A A G G G A C G G A G G G G G A A C G G G A A A A A A G G G G C$ A A A A G A A CCACAC GAAGAGAGCAGGGAAGGAGGCCGAAAGAA $A C C A A G A G G G G A A A A G G G A C C G G A G G A A G A C A G G G C C G G G G A$ A G G A A A A G G G A G G A G A A G A A G A G A GAGAC G GA G C A A G G G G G A A A A GAGAGAGGAAGGACAGAGCCGGGGAAAAGAAAGAAAAAA $A C C A A A C A G A A A A G G G G A A G G G G G A G A G G G G G G A C A G A C B G A$ A G G A $\operatorname{A} G A G G G G A G G G G G G G G G G A G A A G G G C C G G A A A A G A A G G$ G G G A A A A A G GAACAGGAAAAAGGAACCGGGGAGCAAGCAA GA A A A A A A A G A A A A G GAA A A G GAA A A A GGCAAACCGGGGGGGAA A CAGAGGAACCGGGGAAAAGAAGGAAGAGACGGGGAGAAAAB GAAGGAACCGGCAAACCAGGGAAGGAGAAGGAAAAGGATGAA GAAGGGGGAAGAACCGAGGAAAAAACATTCCGGGGCCAGAGC AAAGGAAGGGAGGAAGAAAAAGAGGAAAGAGCAGAACAAAAG A G G A A G G A A A A G A G G G G A A A A A G G GACGGAGGGAAAACCGAA A A A G A A A G A A C A G A C G GAAGGAAAACAGGAAAAGAAGAAA G G GAAGAAAAAGGAACCGAGAGGAGGAGGCCAGGAAGAAAAAAA G G GAGGACAAGAAGAGGAAAAGACCCAAGCAGAGGAAAAAAA A A A A A G G G GAACCCCGGAAGGGGGGAAGGAAGGCCGGAAAAA
 G G GAAAACCGAGAAACAAAGAAGGAAATAAGCCAAAAGGGGG $G C C A A G A A G G A A A A C C C A A A G A A G G A A C C G G G G A A G G G G C C A$ GACAAGGCCGGAAAAAAGGAAAAGGAAACGGAGAACAGAGAA A G GAA $A \operatorname{GAAAA} A G A G C G G A G A G G G G A A G G A A G A G G A G A A A A G$ CAAGGGAAAGAGGGGACAAGAGGAACCGAGATAACAGAAGBA A G G A A GA $A$ A $A G G G G G A G G G G A G A C G G G G A A G G A A G G A A A A G A C$ C G A A G A A G G A T A A GAA G G GAGCAAAACAAAAAAAAACGAGA G GAAGGGAAGGAAACCGGGGAAAAGGCCAAAAAACCAAAAGGG

G GAGAAAGGAACCGAGAAAAACCGGCCGGAGGAGGAAGGGGA $A G G G G G G G G G A A G A G G A A C A G C A A C C A A G A G G A G A A G G A A G A$ AAACCCCAAAAAAAAGGAAAGGAGGAACCAAGAACAAAGGGA GCAGAAAGGAAGGACAAGGAGGAAGGAAAGGAAGGGGGGGGA A A G G G G GAA A GCCAAGAAAGGAAAGGGAGAAAAGGACAAAGA GAAAAGAAAAAGAGGGGAAAACCGGAGGGCCGAAGGAAAAAA A G G G A G A A GA G TAA A G G CAAGGGGGAATTGGCAAAGGAAAAA AAAGGAGAAAAAAAAAAGGGGAAGGAAGAAGAAGGGAAGGAG A A A G G A A G GCCAAA $\mathrm{A} A \mathrm{~A} G \mathrm{G} G A A A A A A A C C G G G G A A G A C C G G A G G$ G GACGAAACGGCCAAGGGGCCGGGGAAGGAAGGCCAGACGGA A G GACCCAGCAGAGAGGAAAAAAAACCAGAAAGAGGGBACAA
 A A A A A A A A G G A A G A G G G G G A A G G G G G G A G C C G G G G G A G G G G G GAGGGGGGAGGAAAAAAGGAAAAAAAGAAACGGGCAGGAGAA GAGGAGGAAGGGGGGGACCGGGGAGAAAGGGGGCCAAAACAA $C G G A A G G A G G G C C G G G G C C A A A A A A G G G G G G G G G G T A G G A G C$ C G GCCAAAAAAGGAACCCCGGAAGGAAACAAGGGGGGGAAAA A GACCGGAAAAAAAAAAGGAAAACCAAAGGGACCCGGGAAAG AAAGAAAAACAGGAGAGCCGGGGAAACGAAAGAGGCCGAGAG A G G A A G G A G G G G G A A A A G G G G A A CAACAGGGGAGAGACAAA G GAAGGGGGGAGGGGAGGAAAACAGAGGAAGGACGAACCAAAA A A A A A A A A A A G GC G A GAGAAGGGGAGGGACAGAAAAA GAA G $\mathrm{A} A$ A A G G A G A A GA GAGGGAAAAGGAAGGAGGAAGGAAAACACAGB
 G G G C A A G A C G A A GAA $A \operatorname{AGGGGAAAAAAAAAAAGGGAGAACGGG}$ A A G G G GAAACAAAACAACCAAGGGGCCCCAAGAGGCCAAGGG GAAGGGGGGGGACAGCCAAGAAAACCACCGGGGGACCAAAAG GAAGGGAGGAAAAGGGAGACCAAAGGGAAGGGAGAAGGGCCG G G GAAAAAAAACCAAGGAAAAGAGAACCCGGCCGGGGAGAGG GAAGAAAAAAAAAAACAGGGGACAAAAGGGGAAAAAGGAGGG GAAAAAGCCAACCCCGGCAGGAGGAAAAGAAAAAAAAGAGAA G G G GAAAGGGAGGAAAGCAGAGCAGAAGGGGAAAAGGCCGGG A G GAACCGGAAAACCGGAGGGAGGAAGGGAGGGCCAGABAAA G GAGGAAAGAGCAAAAGAAAGAGACGAGGGAGAGAGAAAA GA GACGAAGAGAGAAAACCGGACAGAGGAACGGAGAGGGGGGGG G G A G A G A G G A A A A G GAAGGTTGGAAGAAGAAAAAAAAAACAA G GAGGGGAAGAAGAAAAAAAGGGAGAACAAAGGAAAAAAGGG G GAAGCAAGGAGGGAAGGGCCAAAGAAGGGGCCGGGGGAAAA GAAAAGGGGTTAAAAGGAAAAGGAGAGGGGGAGAAAAA GAAA G GAGGGAGGCCAACCGAGGAAAAAAGGCCGGCGAAAAGAAAC C G G C A T A G A G G GAAA $A \operatorname{A} G C C G G C A G G G G G G G A A A A G G A G G C C G$ $A G G A A G A G G G G G G A A G G A A G G A G G G A G A A C C G A A G G A G G G G G$ GACAAAAGGAAGGGGAAAAGACCAAAAGAAGAAAGCCAGGGA A G G G G A A G G G G G G A A A A A A A A A A C C G G GAA $A \operatorname{GGAAA} G A G A A A C$ C G G G G A G G A A A A A A A G G G G G GCCGGGGAAAGGAGGCCCCGGG GC G G A A A A A A A G G G G G G G G TA $A$ A A G G C C G A A A A A G G G G G G A A G GAAAAAGGGGGAAAGAAGGCCAGAGGGAAAGCXAACCCAGGG GAATTGGGGAAGGGGCCGAAAGAAAAGAGGGAAAGAGGGGGG G G GAAAAAGAAAGAAGGAAGGGAGGAAAACAGAGGGAAGAAA TAGGGAGAGGAGGAAAAAAGGGGAAAAAACCGGGGGAAGGAA A G G G G G G A A G G G G C C G G G G A A G G A A A A G GAACCAAC A A A $\mathcal{A} G G$ G G G A A G G G G G G A A A A A A A G G G G A A G G G G G G G GAAAAAAA A G G G C
 GAGGGAGCGAAAAAAAACCAACCAAGGAAAAGAAAAAGECCA A GAAAAAAGAGAAGGGGGAAAGGGAAAGAAGAAA GAAGGGAA

 TAAAGACGAAATTAAAGACCGTAGAGGAAGGAAAAAAAGGAA G G G GAGGGGGGAGAAGAAAGGACCAAAGAGGAAAAGGAAAAG

GTTAAAACCGGAGCAATAGGAAGCCAGGGAAGGGGGCAGCCA A G G G G A G A A GAAAGGAACCAGGAAAAGGGGAGAGAGGAAAAC CAAACAGAAAAAAGGGAAAGGAAAGAAGAACGGATGGGAAGA A A A GAGAGAGGGGAAAAGAAGAAAAGAGGAAGGAAAAGGGGC CAACCGGCCAAGGGGGGAAAAGAAAGGACAGCCAGAAAAAAG GAAGGGGAAAAGGGAGGTTCCAAGGTAAAGAAAGGAAAAAAA A G G G A A A G A A A A G GAAGACACAAGGAGACAGGATAAAA GA GA GAACCGGGGGGGGGGGGAGGGCACCGGAGGGGGGGCCAAAAA A A G A G A A A A A A G G A A A A A A G A A G A A G A A G A GA G A A A A G A G G C $C \subset A A C A A G G A G G G C C C C G G A G G A C A C A C A G A A G A G G A G A A G G$ AAACCAAGGAGAGAAGGTTCCGAGAAGACACCAAGCAAGAC G GAGGGAACCAACCGGAAAGAAAGGAAGCACCAGGGAGAGGAA A A A A A A G A A A GAACCGGGAGGCAGGAAGAAAAAGGGGGAAAA A G GAA A G G G CAAAAAGAAGAACCAGAAGGGGGGGAGGAAAAC C G GCCGAGGCAAGGGAGAGAAAGGGATGAAGGGCAGGAAGAG A G GAAAGGACAGAGAGAAGGGGAAAGGAGGAAAAAAACAAAG $A C C C A G A A G G G G G A C A G G G G G A A C C G G G G G G G G G G G G G G G B A$ A G G G G A A G GAA $A \operatorname{GAAAAAGGAAAAGGCCGGCCGGAAAAAAAAC}$ C G G T T A A A A G G G G G G GAGGGGAAACAGAAGAACAGGGGAA GA GAAACAAGGAAAGGGAAGGGGGGAAGGCCAGAGAAGGCAAAG GAAGGGGGGAACCGAGGGAGGCCGGACAGCCGGAGAAGGGGA AAAGGGAGGAGCCGGACAGCCAAAAGGAACCGAGACAGGGAC CAC G G A A G G C A G G C A G G G G G A C C A A G G A A A A C C G G G G G G G G G G G G A A G G A A G G G G A A A A A A G G G G A A A A G GAAAAAAA G G G GAA $A$ GAAGGAAGGGGGGAAGGGGGGGGCCTTAAAAGGAAGAAAGGA AGGCCAAAAAAAACCGAGGAGAACCCCCCCCGGGAAAACAAA GAAACAAGGGGAAAAAAGGGGGGGGGGGGCCAGGGGGAAAAA C C CA GAAAAGGCCGGAAGGAAAAAAAAGGAACCAAAAGAGGG G TA $A$ A A G A A G A G G G GAAGGGGAGAAGGAACCGGCAACAAGGG GAAAGGGGGAAAGAAGGGGAACCGGGGGAGGAAAGGGGAGAG G G G G A C C G G A A A A A $\mathcal{A} G G G G G G A G A A G G G A G G A G G G A G A A A A G$ GGGCCAAGAGAGGGGGGAAAGAACCGGAGAACCCCGG
AAATAGGAGGGGGGGGAAAAAAAAAAAAAGCGGAAGAAAAA GACAAAGGACGCCGGAGAGGAGGCGAGGAAGCCAACCCGAGA $A A G C C G G G G G G A G A A G G A A A G G G C C A G A A G G A A G G G A B A A G G$ GAGAGAAAAGGCCGGAAAAAAAAGGCCAAAAGGCAGAACGGG G G G G G G GA GAGAGAGAAGGAGCCAGACAGCACCAGAGGGACA
 ACCAGGAGGAAAGAGGAGGAGAACAAGAGAACGGGGGAAAAG GCGCCGAGGGGGAACTTCAGGTTAGGAATAAAAGGBAAACAG $G G A A G G G G G G A A G G G A A G G G G A A A A A A A A G G G G G G C C G G G G G$ GAAAAGGGGAGCGCCCCAGGGAAGGAAGGGAGGAGGAACAAA GCAGGGGGACCGAGGGAAGACAGGGAAGGGGAACAAGGBCAA GAAAAAAGGAAGGAGGGAACAAGCAAAAAAAAGAAAAAGCCG GAGCCGAAGGGAGGAAAAAGGGGAGAAAAGAGGAGGGGAGAA GAAAAGAGGGGAAGGCCAGCCAGAGACAGAGCCAAAAAAGBA AA $A \operatorname{GA} A G A A G G A G A G C C G A G G A G A A G G A A G G G A A G A A A A A G G$ AAAAGACATACACGGGAAGGAGGAGAAACGAGGGGTTAAGGG


 A G GAGAAAGGGCCGGAAGGGAAGAGGGCCAGGAGAGAAAAAA A A A A G A A G A G A A G G G A A A A A A G G G G C CA $\operatorname{A} A A A A A G G A A G G G G G$ GAAGGAAAGCAAAGAGAGGGGCCGAAAGAGAAGAACAGAAAG GAAAAAGGGGAGACAAAGAGGAGAAAGAAAAAGGBAAAACAG G G G A A A A A A A A A A A A G G A A A G A A G G G G G G G G CAA A A G G G G A G GAGAGAAAGCGACAACCAAAGAAACAAAAAGAACCCCGBCCA G A A G G G G G G G G G G G G G G A G A A A GAAAAAGAAAGGAAAA G GAA A GAAAGAACCGGGGAAGGGGGGGGAAGGGGAAGGCCGGAGGAG

A G G GACCGGGGAAAAATAGAACAGGAGAGGAGGAGGGAAAGC CAA $A$ A A A G A A A G GAAAAAACAAAGGGAGGGGAGAGAGGAAGG $G C C A A G G A A G C A A A A A A G A G G G G A A A A G A A A T A G G G A G A G A G$ A G GAA A GCCAAGGCCCCGGAGAGGGAAAAGGAAAAGAGGCAC CAACAAAAGAGCAAAAAAAGGAAGGGGAAAGAAAAAAAAGGC
 GAAGGGGAACCTTGGACCCGGAACCAAAAGAAAAGAAGATAG $G G A A A G A G G A G G G A A G G G G G G A A A G A A A A G G G G C C G G C A A G G$ $G C A A A A C A G A G G G A G G G A A G G A A G G G G A C G G G A A A G A A A A G G$ GAGGGGGGGAGGGAGAGTTGAGGGAGGGGAAGGAAAACAAAA A A A GAGGAAAGAAAAGAGGGGCCGCGCGGAAAGGACAGAGAA GCAGGGGAATTGGGGGACCGGAAAGACACGAAAAGACGAGAG A G GAA A A CAAAA A A A A A A CA $A \operatorname{AGGGGGGAAAAAAAGGGAAGGCG}$ AAAGGGGCCGAACAAAAAGCCGAGGGGACAAGGAAAAAAGGC CAAGGGAGGAAAGCCAAAAGAAGAGCAACCCGGCCCCCCGGC A A G G A A A A A G G T T GAGGGGCCGGAAGAGGAAAAG GAAA GAG G $G C C A A A A G A A G G A A G A G A T A G G A G A A G A C A A G G G G A A G G G G A$ A GAGGAAGGAAGGAAAAAAAGAGGGCCGGAGGAAAGGGGGGA ACAAAAAGAGGAGAGAAGAACCCAGCAAGCGAAGACAAAGGA A G GAA A A G A A A GACAGGGAAAAAGAAAAAAAAAAA GA GAAAAA A A A G G GAAAGGAAAGAGGGGGAAGGAAGGACGAGGAGGAAAA GACAAAAGGGAACCCGGGGAAGGAAAACAAAGGAACCGGGGG G G G A G T T G G C C G G A G G A A G A A G G A A A A A A GGGGAAAAAAAAA AAAGGCCCCGGAAGGGGCCGGGGAACCGGAAAAGGGGAAAAG GAAGGCCAAGGAAAAGGAAAAAAGGAAAAAAGGAAGGGAAAG GAACCGGGGGGAACCAAGGAAGGAAAAAAGGGGAAAAAAAAA A G GAACCAAGGGGCCGGGGGGGGAAGGGGAAAAGGAAAAGGG GCCGGAAGGGGGGAAAAGGAAGGAAAAAAAAAAAAAAAAGGG GAAAAAAGGGGAAGGGGGGAAAAAAAAGGAAGGGGGAAAGGG G G G G G G G G GAA A G A A G GAA A GAAAA A GAAAAAA AGGGCAAAC C G G C C G G A A A A A A A A G G A A A A G G G G A A A A G GAA $A \operatorname{GGGG} G A A A A$ A G GCCAAGGAAAAGGGGCCGGGGGGGGCCAAGGAATTCCGGA A G G G G A A CAGACGCCAGGGAAAAGGAAAGAAAAA GAAGGGGT TGGAGCAGGAGCAGGCCACGGAAGACCGAGAGGGAGGAAAAG GAAACTTAGGAAGAACCGGAAAAGGAGAACCAAGGAGGGGAC CAAAACGGGAGGAAAAAAAAGAACAACGAAGAAGGGGAAGAC CAACCAAGGGGGGGGAGGGCAAGGGGGGAAAGAGGAGGGAGA A GAACGAGAACAAAAAGAAGGAAGAAGAAGACCGGAAGAAAC AAAGGAAAAGGCCGGAAAAGGGGAAGGAAGGAAGGCCABAAAA A A A G G G G A A $\mathcal{A} G G G A A A A A A A G G G G A A G G C C A A G G G G G G A A A A C$ C G G G GAA G GAACCAATTCCGGGGAAGGATCAACACAAGGGGC C A A G A A G G G A G G G A A A A G G T A A A G A A GAAA A G G A G G A C A A G A A G GAAAAAACCGGCACAAGGAAAAAGGAAGGAGAACAGGGGA G G G A G G G A A A A GAGGAAAGCAGGGAGAAGGGGGAA GAGAAAG GAAAAGGGGGGGGAGGAAGGAAGAGAAAAAAGGAAAAAAGGA GA $A$ A A A A A A A G A G G G A G G G G G A A A A A A A G GAA A A G G G G G A A T TGGGAATGGAGGGAAGGCAGAAAAAGAAGCCAATAGGAGCCA AAAAGCAACGGAAAAATGAAAGGAAAAAAAGAAGAAGGAAAG G G G GAGAAGGGAACGGGAAACGGGGCCAGTAACGGGACAAGA G G G A A A A A A G A G G A A A C G A A A G A C CAA GA GAAC GAA G G G G G A GAGAACCGGAAGAAAAGGGCAAAGAAAAAAGGGGGGGAGCCC GGGAGCGAAAAAGAACAAACGGGGGGGGGAACAGAGAAAAAA GAAAAGGGGGAGGAAGGGAGGAACCAAGGGGAAAAGTTXAAA $G C C G A C C G A A A A G A A A A G G G A A A G G G G A A A A C A A A C C G G G G G$ G G G A A A G A G G GAGAAGAGGAAAAGGGGCAAGGGAAAAAATXG $A C C A A C C G A G G A A A A G A A G A A G G A A A A G G A A A A G G A A A A G G G$ G G GCCAAAGAAGGAGGGCCCAAGAAGACXAGGGGGCACXGGA G A GAACCGGAAGGAAAAAAAGAGGAAAGGAAAGGGAAGAAGG $G G G G G G G A G G A G G T A A A A G A A A G A G C C G G A A A A G G G G C C G G T$

TAGAGGGACAGGGGACCGACCCAGAAGCACAACACAAAGTTA TAAAACAAGCCGGCCGGGGAAGGAAAAAAGGGGAAGGGAAGA GAGAGGAGGGAAAGGAAAACCGGCCGGAAAGAAAGACGAGAA A G G G G GAAACCGGCAGACCAAGGAGAGGAAAGGAGGAAAAGA A G G G GCCAAAGATGGGAGACAGGCCGGGGAGGGCAGAAAAAC
 A G G G A A A G A G G A A C C A A A A A G G G G G A A A A A A A G A GAAA G G G A AAGGAAGAACCGGAAAAAAGGGGACACACGACATTGGAAGAA A A A G G A A A A G G A A A GAGGACCAGAGGGGGAAAACCGGGAAGA AAACCAAGGAAGGAGAAGAAGGCCAAGGAGAAGAGAGAACAA A A A A G A A A CAA A A A GCACC GAAACCGGGGACAGCCCAAACC G GAACCGGAGGGGAAGACGAAGCCGGAGGGAGGGGGGGGGGGG GC G G A A G G G A A G G G GACAGGAAACCAGTAGAACGGCCGAGAG $G G G A A G G A A A G G G A G A G A G A C A G G G A A A A A A A A A A A A A A A G A$ $G C A A A G A A G A A A A A G G A G G G A A G G G G G A A G G C C A G A G C G C A G$ A GAGGACGAAAGAGGACAAAGCCAGGACGAGGGGGAGAAAGA A G G A G G GAGGCAGGGAGAAAGAAAAAACCAAAAGGGGCCGGG GAAGGAAAAATGAAAAACCGGGAGAAAAAAAGGAAAAGAAAA AAAGAAAAACAAACAAAAGAAGGAAAAGGAACCCCAAGAAAC CAAACAAGGAACAACAGAAAAACGGAAGAGAAGCCCAGAAGA $C A G C A G A A A G G A A A A C C A A A A G G C C G G A A G G A G G A A A G G G G A$ A G G G G A A G GAATAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A A A A A A A A A A C C A A G G A A G G C C G$ G G GCCGGAAGGGGGGAAGGCCGGGGAAGGAACCAAAAAAAAA A A A A A G G A A A A G G G GCCGGAAAACAGGAAGGGGGATTAAAAA $A C C C C G G C C A G G A G A G A A C A A G A G G G A A A A A G A A A A A A A G A G$ A A GA A T T A A G A A A A G G A G A G G G G G A G A G G A G C A G G C C A G G A A A G G G G G G G G G GCC G GAACCAAAAGGAAGGAAGGCCGGAAGAA A ACGGGAGAGGAGAGGGGGAAAAAGCCAGAGGAGGAAAAAAG A A A A A G G A A ATCAAAAAAAGAAGGGAGGAAACCATAAAACCG GAAGAAAGAAAAAAGGGCCCCGGTTGGAACACAAAGGGGGCA G G G A A GAC GAGCCCCAGAAAGGGGGGGGAAAGGAAACAAGAA TGAGGGGAAGAAGGAAGGAAAAGGGAAAGAAATGGGA
GAAAGGGAGAGCGGAAGAAAGGGGGGGGAACCGGGGAACAA AAGCCAAAGCCGACCAAGGGGCAAGAGAACACAGAGGGGGAG G G G G A A G G GAAACAGAGGAAAGGAAAGAAAAAAGAAAAAAAA G G GCCCAAGGGAAAAGGCCGAGGCCAAAAGGCCGGAAAATTG GAGCGAAGGCAAAAAAAAACCCCAAGGGGAACGGGAACAAAT TAAAAACAGAAAGAAGAGGAACAGAGAGAAGGGGGGGAGAAA
 $A A G C C A A G G G G A G A A C A C C G G G G C C A G A A A G A G G A G G G A A G G$ A GACAGGAAAAGGAAAGCCAAAAAGCCAGAGAGTTAAGAAAG G G G G GCGAAGGGAAGAAAAGGACAAGGGGAGGGAAGAGAAGA AGGAGGCGGCAAGAGGGAGAGCCAAAAGGGGAAAAGGGGGGG GAAGGAAAAGGGGCCAAGGGGAAAAAACCAAAAAAGGGAAAG GAAGGGGAAAAGGCCGGGGCCGGAAGGGGAAAAAAGAAAGGG G G G A A G G A A A A G G G G G G A A G G A A G G G G A A G G G G A A A A G G C C C
 G G G G G A A G G A A G G A A G G G G G G G G G G A A A A G G G G A A A A G G A A A A G GAA A G G GAAAAAAGGAAAAAAGGGGAAAAAAAATTGGGGA A A A G G A A G G A A G G G G A A A A A G A A G G G G G G C G A G C C T T G A G G G G G G G G A G A A G G GAGAACAGGGCGCCGGAACCAGAAGAAAAAG A A A A A A GACGAGAACAAGAAAAAGGAATTCCCAGGAACAAAC C G G G G A A G G C C G G A A G G G G C C G A G G G A A G A GAA A A A A GAAA A $C T T G A A A G G A G G G G G G G G G G G A G G G A A G G A A C C A A A A A G G A G$ A GAACACGACAGGGGGAGAGGGGCAAAAAAAAAGGAAAAGAA $A C C C A G G G A A A G G A G G A G C G G A A G G A G A G A G A G G A G A A A A B A$ A A A A A GA $A \operatorname{GGGGGA} G G A A C C A A A G A A A C G G G G A G A A G G C C G G G$ $G G A G G A G C C G G C C G A A C G G G A G A G G A C G G G G A G G G A A C A A A G$ $G C C A A G G C C A A A A G G A A A A G G A C A A G A G G A A A A A C G G A G G G G$

A A A G A A GAGGGAAGGAAAAGGAAGGGGAAAAGGGGGGGGGGG GAAGGGAGGACGACCGGAGAGGGAGAACCGAGGAGGAGAGGC C G G G GCAG GAGGACAAGGAAAGAAGGGAGCAGAACCCCCGGG ACAAAGAAGGGAAAAGGGGGAGGCAAGAGAGGAGGGACAAGG AACAGGGGGGAGAAGAGAAAAAGAAGAGGGGAAAAAAGGGGG G G GCCAAGGAAGGGGGGGAGAGGAGAGAAAGAAGAGGAAAAA AAAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGCCAAABC C GAGGGGGAAGGGCCGAAAAGGGGGAAGGAGAGAAGAGAGAA $A C C G G A A A A A A G G G G C C A A G G A A G G G G C C G G A A A A A A G A A A A$ A G G G GAAGGGGGGGGGGAAGGAACCAAAAGGCCAAAAGGGGG G G G G G G G A A C C G G A A G G G G A A G G A A G G G G A A A A G G A A A A A A $G$ G G G G G G G G G G G G G G G G G G G C C A A A A A A A A A A A A G G G G A A C C A AAAGGAAGGAAGGCCGAACACAGAAAAGGAAAGACGAGACAA A G G G G A A C C A GCCA $\mathcal{A} G G A A G A G G A C A G A A G G A C A A A A G A A A G$ $A C C G G A G A G G G G A G G A A A G T T G G A A G A A G G A G A G G A C G A G G A$ AAAGGGGCCCCAAGAAAAGAAAGAAGGCAAGGACCGAAAAAA
 GAAAAAAGAGGAAGAAAAGAAAGGAAGGACCGGGGGGGGGGA GAGAGGGAGGGGGAAGGGGGGGGGGAAGGCCGGTTGAAACAA A A A A A A A G GAAAA A GAAGGAAAGAAGGGGGAAAAACAAAAAG GAGGGGGAGAACAAAGGAAAGAGGAAGAGGGAGAGCCAACCG CAAAAAAAGAGAAAGCAGGAGGGGAAAAAAAGGAGGGGGCCG G GAAAAGGGGGAAGGCCAAAAGGAAGGGGCACAGACAGAAAA G G A A G G A A G A G G G G G A G G G A A A A G G G G G G C C G G C G A G G G A C A ACACCAAGGAAAGCAGAGGAAAAGGAACCAAAGCCAAAAAAG GACGGGGAAAAAAAAGGAAGAAGGGAAAAGAGGGAAAGAAGC GAAGACCGGACGAGGCCAGCCAGAAAAAAAGAAAAAAGAGGA A G G G G G G A C G A G G G G A A GAGACCCAAAAAGGGGAACAA GA G C CAA GAAAAAGAAAAGAAAGAGGGCCCCGGAAAAGGGGGAAAC C G GAGACGGAAAAAAAGAAGGGGAAGACAGGAAGGAAGAAAA A G G G G A A G A A G A G A G G G G A A A G A A A G G CA $\mathcal{A} G A A A A A G G G G G G C$ $C G G G G G G C C G G C A A G A A A C A A G A G G A A C C G A A A A A A A A A A A C$ AAGGGAACCGGCCCCAGGAAGGGGGGAGAAACCAAAAAGCAA
 G G A A A A G A GAA $A \operatorname{G} A A A A A A G A G A A G G A G A G G G G G G G G A G A A G G$ G G A TAA A A GAAGGAAACAAGGGGAACCAAAAAAACAGGAAAA AAAAAAAAAAGAAGAAAGGAAAAAAGAGAAAAGCAGAAAGAA A G G G GAAAA A GAA A GAAAAAAAAGGCGCAGGGGAA GAGAGAG A A GAGATAGAAAAAAAAGAAAAGGGGGAATTAACCAACCCCC
 AAAAGGAAGAAGGGGAAAAGGAGAAAGAGAGAAGGAGCACAG
 GAGAAAGGACAAAGGGGCCAAACGAGGCAAGAAAAGGAAGGA $A G G C C G G A A G G G G G A G C A G A G G G G A G G A A A A G A G G A A A A A G G$ A A G G G G G G A A G A G G A G A G A A G G A G G A G C C A A G G G G A G G G A G A A A GCGGAGGGGGGCCGGGAAAAGGGGGAAAAGGAACCAAAGG GGGGGAAAAAGAGACGGGAGAAAAAAACAAAAGCAAAAGAAA

 G G G A A A A G GCCGGGGGGAAAAAAAAAAAAAAAAGGAAAAGGG G A A G G G G G G G G G G A A G G G G G G G G T T A A $A$ G $\mathcal{A} A A A A A A A G G G G G G G$ GAACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGAAAGGG GAAGGCCAACCCCAAAAGGCCCCGGGGAAAACCCCAAGGGGG GAAAATTGGAAGGAAGGGGAAGGAAGGAAGGGGGGCAAAAAG G G GCCAAGGGGAAAAGGGGGGAAAAGGGGAAGGAAGGAAAAA A A A C C G G G G G G G G G G A A G G A A G G A A G G G G G GAACC G G A A G G A A A A $\operatorname{A} G A A G G G G G G G G G G G G G G T T A A G G A A A A C C A A A A A A G G G$ GAAGGGGAAGGAAAACCAAAAGGAAAAGGAAAAAA GAAACCT TAATTGGAAGGAAAAAAGGAAAAAAAAGGGGGGGGAAGAAAA

A A A G G G G G G G G G GAACAAAGGGGAAGGGGCCAAAACCGGGGT TAAGGGGAAAACCAAAACCGGGGGGAAAAAAGGAAAAGGGGC CAAAAAAAAAAAAAAGGCCCCAACCAAAAGGAAGGAAAAGGA A A A A A G GAAGGAAGGAACCGGGGAATTAACCAAAAGGGGCCA A G GAAAAGGGGAAGGGGCCAAGGAACCGGGGGGGGAAAAAAC C G G G G G G G G A A G G A A A A G G G G G G G G A A G G A A A A T T G G G G G G A A G G A A A A A A G G G G A A A A G G A A A A G GAAAAGGGGCCCCAACAA AAAGGGGAAAAGGGGAAGGAAAAAAAAAAGGAACCGGAAAAC $C \subset C A A C C A A G G A A A A A A A A A A G G A A A A C C G G G G A A A A A A A A C$ $C G G C C G G A A A A C C G G G G G G A A A A G G A A A A A A G G G G A A A A G G G$ GAA A G A A A A G G A A G G G G G G G GC C A A G GAAAAAA A GAA G G C C G GAAGGAAGGGAAGGCGGAAAAAAGGTTAAAAGGGGCCAGAGG GAAGGGGAAAAAAAAAGCCGGGAAGGAAGAAGGCGGGGAAAC $C \subset C C A G C G G G A A G A G G G G G A A G G A G G G G G C C A A A A A A G A G A G$ GAGAGAAAGAAAAGAGAAGCAGGGAAGACAGAGAGCAGGAGG GGACCGCAAAGGGAAGAGGAACCGGAAAAAGGGAGAGCAGAA GAAAGGAGAAAAAGGAGGGGGGGGGGAGGAACCAAGGCAGGG GACGACAAGCCGGGAAGAAAAGACCAAGGAGAAAAAAAAGGG GTTAGAAAAAAAACAACAATACCAAGAGGAGGAGACAGGGGA $A C C G A A G G G A A G G A A A A T T C C C C A A G G G G G G A G A A A G A G G G A$ ACAGACAAAACGACCGGGGGACCAAGGGAAGAAGGGGGGAGG ACCACAAAAAAGGAAAAATAGGGGGGGGGAAAAGGGAGAAAA AAACAGAAACCGAGGAAGGGGGGGGGACAGGGGGGAAAAAAA A G A A A C C A A G G A CAACAAAGGGGCCGGGGCCAAGGACAAGAA ACCAAGGGGAAGGCAAAAAAAAAAAAGAAAAGGGAGGAGCAA AAAACCGAGGGAGAAGGGGCCGGAGGGAAAAAAATGAAAAAA G GAGAAGGAAGAGAGGAGAAGGACCGAAAGGGAAAGGCAAAG G G G A A A A G G G G G G G GAAAAAGGAGAATTGAGAGAAAGGAAGAA G GAGAAAGAAAAGAAACCCGAGAACCAAGAGGAGGGGGGGGG $G C A A G A G G G G A G A G A G A A G G A G A G A A C A G C A A G C G G A G G G G A$ G G GAACCAAAAGGGGCAGAGGCCAAGACCAACCCCGAAAAAG GAAAGAGTTAAGGATAAGGAAAAGGGGGGAAGAAGGG
A A GAA $A$ A $A$ AAAAAACCGGGGGGGGGGGGAAAAGGGGAGAAG G GAA A G A G A G GAACGGGGAAAGGAAGGAAGAAGGGAAAACAG G G A A A G G A A G G G G A A C C A A G A G A A GA G G G GACC $\mathcal{A} A G G G A G G G$ G G GCCGGAAAAGGCCGGGGGGAACCAAGGAAAAGGAACAAAA AAAGGAATTAAAAGGAAGGGGAAAAAAGGCCGGGGGGCAGAA A A A A A GA $\operatorname{A} G A G A G G G A G G G A G A G A C G G G G G G G G A A G G G G C C G$ GAAATAGGGAGGGAAAAAAAGAGAAGGAGAGAGCCAAAAACB


 A A A GAA A A G G GAGAGGGAAAAAAGGAAGGGGGGAAAGAAGGC GAGAAGGCAGAGGGAGGAAAGGAGAGGAAAGAAAAGGACAAG GAAAAGACCGGAAAACAGGAAAGCAAGAGAGAGAGCCGGGGG $G C C A G A A G G A A A A A A G G G G G G A A A A G G G G G A A A G A G A G A G A G$ $A C C A C A A G G A A A A T T G G G G G G A A C C A A A A G G G G A G G G G G G G A$ C G G G G G GAA A GAGAGAGCAGGCCGGAAAACCAA GAGGAGGAG AAAAAGGAAGGAAAGCCGGAAAAAGGGAGGGAGAAAGAAAAA G G G A C C C G G G A A A G G G A A G G G G A G G A C C A G GA GAC G G A A A $\mathcal{A} A$ GAGGGGGAAAAGAGGAGAGAAAGCCAGGGGGCCGGAGGAGAA $G C C A G A G A G G A A C G G A A T T A A A A G G G G G G C C G G A A G A A A G G E$ G G G G G A A A A C C C C G A G G G A G G G A G G G G G G G G A A A G C C A A G G G GACCCGGGAGACCGGAAAGGGCCGGAGAAGAGGGGAAAACAA CAGGGAGAGACAACCAGCAAAGGAGAACCAGAGGGAGGGGGG GCACACCAGAAAAGAGGGAAGAGGGAAGGCCAAAAGAAAACB G GAA A A A G GACCCAGAGAGAAAGGAGGAGGAGGCAAGAAAGA G G G G G A A A A C C G GA GA GAGAAC CAAAC G GACAA G GA G GAAC G GAGAGAGAACCGGAGAGCCGGGGAGGGAAAAGGGGCCGGGGG

A G G G GAAAGGGGGACGGAAAGAACCGGGGGGGGAGGAAGAGA G G G A G A G G A A A G G G G A A G A A A G A G G G G G G A A G G A C A G G G G G G GAGAAAACCGGAAGAACGGGAGAAAACAAAAGGGGAGAGGAA GACAAAAGGGGAACCAAAAGGGGGGAAAAGAGGAGGGGGGGA GAGAGGGAGTTGGAGCCGGGAAGAACCAAGGAGGGAAAACCG GAGAAAGGGGGAAGAAACAGAAGGGGGAAGGAGAAAAGGGGG G G G G GCCAAGGAGGGGGCCGGCAGGGGGGCAGGAAAAACABA GAGAGGACCAGCAGGGAAGGGAAGGAGAGGAGGGAAGAGGGA A G G G A GAGGCCAAAAGAGGGGAAGGAAGGGAAAAAGAAAGGT TGGCAAAAGGGAAGGAAACGGAGGGAAAGAAGGGAAAAAGGG GAAAGGGAAGAAAAAGGGGCCAAGGCCAAAAGAAGGGAAAAA A A A A A G G A G G G A GCAA G G GCCGGCCGAGAGGAAAA GGCC G G T TAAG $A \operatorname{A} A C A G G G G A A A A G A A A G A G G G G G A G G A A A A C C G A A G A$ AGGGGCCCCAAGGCCGAGAGGAAAGGCGGCCGGGAAAGATAC CAGAGAAAGAAAGGGAACCGGAGAAAACGCCCCAACAAAABA CAAAAGGACCAGGGGGGGGAGAGGGGGCCCCAAAAAAGGGGA $G C C A G A A A A A A G G A A A A A A G A G G G G C C A A G G A G A G G A G A G G G$ ATAAAAAAACAAACGCGGAGACAGGAAGAACAGAAAAGGGGA $G G A G G C A G A C C G A A A C C A A G A A A A A C A A A A G G A G G G G G A A A G$
 AGGCCAGAAAAAGAAAAGAAAAGACAGGGAAAAAAAAAAAAC AAAGGAAAAGAGGGGAACCGGGAGGAGAGAGGAGGGACAAGG GAAGGGGAAGACCAAGGACCGGAAAGGAGGACACCAAGAAAA A $G G G A A A A A A A G G A A G G G A A A C C A G A A A G G G G G G G G A A A A A A G$ G G G G A G G G G G G A GAGAAGAAAGGGGGGAAGAAAGAGACAAAC CAAA A G G G G G G G G A A T T A A A A A A G G CAAACCGGAAACACAAA ACCGGAAGGAAAAGGGGAAGGGGGGGGGGAAAAAAAAAAAC G
 A G G G G G G G G G G A A G A G G G G G G A A A A C C G G G GCC G GAACAAAA AACGAGGCCACGGAGGAACAAGGGGGGAAGGGGGGGGGAAGA
 GAGCAAAAAAAGGGGCCAAGGGGAATAAACCAGAACAGGCAG GAAAAAGCGCAGGAACACACCAAAAAAGGAGAGGGAAAAACAA C C CAACAAAGGAAGAGGAAGGGGAAAAGGAGAGGAAACAGAA ACAGGACGGAAGACCGGAGACAAAGGAAGACGGAAAAGAAAG GAAGGCCGGAACCGGGGAAAACCGGGGGGCCGGAAAACAAAB ACAGAAAGGGGAGGGGAGGAAGAGGAAGGGAAAAGTTCAAAA A G G G GCCCACCAAGAGGAAAGAAGGAGAAAAAGGGAAGGGGC C G G GAAAAGAAAAAAGGCAACGGCCAAAGGAATCAGAAAAGC CAGGGAGGGCCCAAGAGCCGATAGGAAGAACAAAAGGCAAAA A G GAAAACCAAAAAAAAGGAAAAAAGGGGCCGGGGGGGGCCG G A A A A A A A A $\mathcal{A} G G G G G G G G G A A A A A A A A G G A A G G G G G G A A A A G$ AGGGGAAGGCCAAAACCAAACAAAACCGGCCGAAGAAAAGAG G G G G A GAGGGACCACAAGGAAGGAGGACAAAGGGAAAAAGAG
 A A A A A A A CCGGGGGGAAGAAGGGCCGGGGAACAGAAAACAAG
 A AACCAGAGGACAAAAAGGCAGGAAGACACCGGGAAAGGCCA ACCGGCCAAACGGAAGGGGGGGGGGGAACGAAACAGAAATTG GAGAAGAGGGGGGAAGAGAGAAAGGAAAAGGGAGAAAAACAG GAGAGCAATAGAGGAGGGGACAAACACAGAACCAGCAGAAAG GA $\operatorname{G} G A A A A G A G G C G G G G A G A A G A G A G G G G G A A A G G A G A A A G A$ A G G G G G G A C A A G G G A G A A A A A G G A G C G G A G A A A A G A A A G G G A AAAGAGGAAAATAAGAACCAAGAAACCAAGGGGAAGAACAAG GAAAAGGGGAGGGGGCCAGAGGAAGAAGGGAGGGGAACCGGG GAGAGAAAGGGAACAGAAGAAGGGGAGAAACAGAAAGTXGAA G G G A A A A $\mathcal{A} G G G G G G G A A G G G G A A C C A A C C G G G A G G G A A C C C G$ G G G G G A G G A A A C C G GA G G G G G A A G GAGACAGGA A A A A A G G A A AAAGAGAGAGGAAGGAGAGAGGGAAGGGGCAAACAAGAAAAG

GAGAAAGGGAAGGAAAAGGGGAAGGAAAAAAGGAAAGGACCG
 ATAGGGGGGGGCAACGGAAAGCAAAGGGAAAAAGGGGAAAAG G G G G G G G G G G G A A G GAAGGAAAAGGGACAAAGAGAGAAACCC CACGGCAAGAGAAGGAGTTAAAACAAAAGGGCCAGGGAAGAA A G G A A C C A A G G G G G G G G A A C C G A A A G A G G A GAC GAA G G A C G G AAAGAAAGAAGAACCAAGGAAGGAAAAGGGGAAGAGGABAAG $G G G A G G C G G G A A A G C G A G G G G A A A A G G A A C C G G A A A A A G G A A$ G G GAGCAGGAAGGAAAAAAGGAGACCCAAAAACAAAAAGAAA GAAACGGGACCGGACCCGGGGGGAAAAAGCCACAAAGAGCCA G G GA GAACCCCAAGGAAAAGGAAGGGGAGCAGAGGGGAAAGA GAAAAAAATAGGGCCAAGAAGAAGGGACAAGAGCAGAGAAAA $G C A G A C G C A G A A G G G G G G A C G G G G G A G A A G G T A A A G G A G A A G$ GAAGGAAGAAACCAAAAGAGGGGGGCCGGAAGGAGAAGGGGG GAGGGGGAAGGGAGACCAGAGGGAAGAGAGGAGGGGAAAGAA AA $A \operatorname{GA} A G A C A A G G G G C A A A A A A G G G G G A A A A G G G G G G G A C A C$ C G GAGAGACAGCAAGAAGGAGGAAGGGGGGGAAAAAAAACAG G G A G A G G C A A G C C G G G G A A GAGGTTGGGGGGGGAAGGCAAAA G GAAAGGACGGAAAACCACAGAACCGGGGAAGAAGAGCAAAA A A A A G A CA $\operatorname{A} G A C C A G A G G G G A G G A G A C G A A A G A A A G A A A A A G$ AAAAACAGGAAGGGGCCAAGGGGGGGGAAAAAAAGCCGAAAC CATAGGGCAAAAAAAAGCCGGACAAAAGGCCAAAACCAAGGC $C G G G G A G G A C C G G A A G G A A G G G A G G A A T A C C A A G G A C C A G G G$
 AACGAAGAACAGGAGAAGGAAAAGGAAAAGGAAAAGAAAGAA $A C C G G G G A A G G A A A A C C G G G A G G G A A G A A G G A A A A G G A A A A A$ AAAAAAGGGGGGGGAAAAAAAAAGGGACAAAAGAAAACAAGAA
 GCCGGAAGAACAAGGAAGGAAAAAAAGAGAATTGGGGAAAAA AAACCAAGGAAGGAAAAAAAAAAAACCGGAAAAGGAGAAAAG A GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAG AAAACGAACCACAAAGGGGCCCCAAGGCAGGAACCGG
A G GAA A A G G GCCAAAAAAAAGGGGGAGGAGGGAAAAGAAAA G G G G A G G G GAGAAGGGGCCGGCCAGAGGGGAAGGAAGAAAAG $G C C C C A A A A G G G G G G G G A A C A G G A G C C G G G G A G G G A A A G C A G$ GAAAAAGAAAACCGGAAAAGGGGCCAAAGGGAAAGAACACCC CAA A A GAGGGAAGAGGGGGGAGGGGGGCCGGAGAGAAAAAGC $A C C G G G G C C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G$ GAAGGGGAAGGCAAAAAGAGGCCAGGACCAGGGCAGGAAAAA C G A A C G A G G C A A A A A A A G GA $\mathcal{A} G G G G G G G G G G A G G A C A B A A A C$ CACGAGAGGCCGGCCGGAGACGGGACAGAAACCAAAGGAGGG G GAA A A C G A GAGGAAGGAAAAGAGGGAAACCAAAAAGGAGAA ATAAGGAAGGAGATTCCTTAAGAAGAAGGGGGGAGCAGAAAA GAAACAGGGAGAACAGGAAGGAAAAGGAGACTTAACCAAAAC CAAA $A \operatorname{AGGGA} G G G G A G A G G G A G A G A A C A A G A G G A A A G G A A A A A$
 AGAGGCCAGGGAAAAAAAGAGGGAAAACAAGCCCAAAAAAAA $A C C G C C C G G G G G A G G A G A G A A A C A G A G G G A C G A G A G A G A A G A$

 A A GATAGGAAAGAAGAACAAAAAAAGGGGGAAAGAAGAGGGG G GAGGAACAAGAGAAAGAAAAACGGCAGAAGGAAAAGGAAGA G A A G G A G G G A A A A A A G G A A T TA G CAGACGGGAA GAAACAGA G AAAGGAGCCGGGAAAGGGACCAAGGAGGAGGCCAGCAAAAGA A G GAGAAAGGGAACCAAGGGGAGAGGGAAGAAAAAGGGGGAA A $G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGGGAAAAAAGGGGGGAAGGAAAAGAA A G G G G A A A A A A G GCCGGCCAAAAGGCCGGAAAAGGGGAAAAA A G G G G G G A A G A A G A G A G G G G G G A A G G G A A A G C C A A G GA GAAA GAGGGAGGAAGAAGGGGAAAAGGGGAAAAGGCCAAGACAAAG
 A G G G G A A C A G G A G A A CACA GAAAAAAAAAGGAAAACCGGGGA $A C C G G G C G G G G G A A G A G A G A G A C G G G A G G A A G G C C C C A A A A C$ CACAGGGGGGAGGGAGGAAAGGAAAAAAAAGAAAGCCGGCCC CAGGACCAGAGACCCGGGGGGTAAACGAGGGAAGGAGGGCCC A G G A A G G G G A G G G A A C A A A G G G G A A A A A G A A A G A C C A A G A G G GAAGGCCGAGGGAGGCCGGAAGGGGCCGGCAGGAAGAAAAAA ACCGGCCAAACAACCAGGATTAAGGCCGGAAGAGAAAGGCCG G G G A $\operatorname{G} G \mathrm{G} G \mathrm{G}$ A A A A A A A $\mathrm{A} A A A A A G G G G G G G G G G G G G A G A A G A G G T$ TGAAAAGGAGAAGAGGGAGGGAAAAGGCAAAAAGGGGAAAAC CAAAGAAAAAAAAAGCCGGAAAAAAAAAAGGGAGGGAGAAAC
 A GAGAGGAGGGGGAAGGTAGAAGGAAAAGAGAGAAAAGATTG A C A G A A G G G A A T T A G C C G G C A G A A G G G A A C C G G G G G G T T A C G GCACAGAAAAAAAGGAAAAGGGGAAAAGGAAAAAAAAAAGGA
 A G G G G G G A A G G G G A A A A A A $\mathcal{A} G A A G G G G A A G G G G A A A A A A G B T$ TAAA A A G G GAAGGAAGGCCAAAGCCCCAGAGAAAAGGGAAAG $G G A C C A G C C A A A G C C G A A G A A C C G G G G G G G G A A G G C C G A A G G$ G G G A A A A $\mathcal{A} G G G C C G G G G G G A C A A A A G G G A G G G A A G A A G A G A C$ C C C A A C G G A G G G A A C G G G G G G G G G G A A G G G G A A A G G A A G A G G GAAGAAGGAAGAACCGACCGGAGAGAGAAAAGGAAAAAAAAA CACGGAAAAGAGAAGGGGGAAAAAAAGAAGGAAAAAAGAGAA A A A A A A A G GAAACCAAGAAGGAAGAAAGGAGAGAGAGACGAG G G G A G G G A A A G G G A G G G G G G G G G G C G G G G G G A G C C G G C C A A C A G G A A A A A G G A GAGGGAAGAGGGGGACGGAAAAGGCCGAAAA GACGGAAAAGGAAAAGGAAAGGGGACCAGAGCCGGAAGAAAG G G G G A G A A A GAGGGGGAACAAAAGAGAAACCGAAGCCGACCA
 $A C C A A G A G G G G G A G G G G C C A A A A G A G G G G G A A A A A G G C A G A A$ A G G G G A A G G A A A A A A C C A A C C G A GAGAGGAAGGAAAAGACCC $C C C G A A G G G G G G G A A A C A G A A A G C A A G G G A A A C A C A G A G A G G$
 $G C A A A G G A G G A A G G A G A G A A A G G G G G G A A A A A A A A G G G A A A G$ G G G G G A A C C A A A A C CAA A GAAAAAAAACCGGCCAAA GAAGAG A A GAGCAAAGGAAGGGGGGGGAAAAGAACAGAAAGGAGGAGA AAAAAGGCAGAAAAGAAAAGAAGACAACCAGCGGGGGAACAA GAGAGGAAACAGGAGTAAAAAGAAAAATTCAAACCGGCAAAA G G G A G A A A C A G A A G A G A A A A A A G GACGGGGGGAGGAAGACCA T GAGAGAGGAAAAAAGGAAGGAAAAGGGGAAAACCAAGAAAG GAGGGACGGAAGAGGAGGGCCGGGGGGAAAGGGAAGAAAGGA A GAA A GA $A \operatorname{GGG} G A A A G A A G G A G A A G G C C A G G G A A G A G G B A G A G$
 C G GAAAACCAAGGAGAAGGCGGGAGAAGGAAAAAAGAAAAAG G G G A A G G G G G GCCAAAAACCGGGAGGGACCGGAGAAAAAAGGG $G C C G G C C T A A A A A A A A A G G A A G G A G A G A G G G G A A A A G G G G G G$ G G G A A A A G A GAGGGGACAGGGCCAAGGCCAGCAAAAGCAACA AAA A G G GAGAAGGGGAAGGAAAGAAGGACAGAGAGCGAGAAG G GAGGATAGGGAAGGGGGGCAAACCAAAAAAGGAACCAAGGG
 G G GAAGAAAAAAACACCAGAGAACAAAAAGGGGGCAGAGAAA AGGAAGGCCAAAAGAGAAAAAAGAGAGACAAAACAAAGAACC A A G G A A A G A G G G G G G A G A G A G G A A A A C C C G G G G A A G G A A A A $G$ G GAGGGGGGCCGGGGAAGGAAAGGAGGAAAGGGCACACAGAA GAAAAAGAACAGGAAAAGGGGGGGGAGGAGAGAGAGGAGA$A A$ A A C G A G A A A A A GAGGCCGAGGGGAAAAAATAAAACACATAAA A G GAA A G G G G A A G C C G G A A G G A A GAGGGGAAAAAA A A A G G A G G A G A A A GA G A A G G G A G G G A A A A A A C CAA A A G GAAAAA A A A A T C CAAGGGGAAAAAACCAACCGGGGGGAAAAGGAAGGGGAAAAC
$C C C A A G G G G A A C C C C G G A A C A G G A A G A G G A A G G A G A G G A G G G$ G G G G G A A G G G G G G A A G G G G A A A A $\mathcal{A} G G G G G A A G G G G C A A A G E G$ G G G G GCCAAGGAAGGAAAAAAGGGGAGAGGGCCTTACAAAAG GAAGGCAGACCCCAGAGAGGAGGGGCCAACCAAGGGGGGAGG A G G TAA A CAGGGGGAGAAAAAAAGGAGGGAAAAAGAAGAAAA ATTGAAAAAGAAAGGAAAAGGCAAAGAAGCCAGAAGGAGCCA G G GAAAAGGCCCAAAGGAAGGAACCAGACAAAAGGCCAAACB
 A G G A G A A G A A A GAC C G G A G CAA $A \operatorname{AGGGGGGAAGGAAAGAGGBA}$ AGGCCAGGGAAAAAAGGAAGGAGAGGGAGAGGGAGAGGGGGG G G G G A T T A A G G A A C C G G A A G GC C G G G G C C A G G G G G G G A G A $G A$ G GAGAGGAAGGGAAAGGCCGGAAGGAAGAAAACCAGAAAACA A A A A G A G A G A G A A G G G G G A A GCCGGCAAGAAGGGGGAAAAAA GCAGGAAAAAAAACCAGAGGGAGGGCCCAAGAGAGGAGGGGG GAAAAAAGGGGGAGGGGAAAGAGAGAGAGAAGGAAGGGAGGA A A G G GAAAGGGAAAGAGGGAAAAAGCGGACAGAAGGAAAGAG G G G A A C G G G G A A T C C G A A A G G G G G A A A G G A GA G A G G A G A G G A G G G GAAAGGAACCCCGGCCGGGGAAAGGAGGCAAGAAAGAAA AAAGGGGAGAAAAGGCCAAGACAAGGAAAGGGAAAGAAGGGA A A A A A G GACGAGAAGAATTACAGGCAAAAAAGGGGAAAAGBA AAAGACCAATAAGAGAGAAGAGAGAGAACGAGGGAAGAAGGG
 A G G G G A G G G A A A A A A A GACAAAGGGAATAAAAGAA GAGAA G C C A G A A A A G G A A A A $\mathcal{A} G G G G G A G A G G G G G C A A A G G C C A A A G G G G$ G G G A A A A G G G A A A A G A G A A G G C C G G G G G A A GAC GA G CA G G G A G G G GAA A A GAA $A \operatorname{Ag} \operatorname{G} \operatorname{GAA} A A A A A A A G G G G A A A A A G A G G A A A A G A$ G G G G G G GAA $A \operatorname{GGG} A A A A G G G G A G G G C A C C G G A G A G A G G A G G G$ A GAAAGGAAAACCGGGAAACCGGAGGCGGAGAAAAGGGGGGA AAAGGGGGGGAGGCCCCCCGAGAGAAAAAACAAGGGGAACAA $G G A G G A A A G G A G A G G A A A A G G C C G A C A A G A G C C A A A A G G G G A$ A G G G G A A A A G G A A A A G GAGGGCGCCAAAAAAGGAAGGCAGAA A A A A A G G G GAAA A G G C C G GAGGAAGGGGGGGAGGGGG
G G G G A A G G G G G G A G A C G G G G A A G G G G A GAGAGAGGGAA A A G
 GAGGGAAGGCCAACCACGAAAAGGGAGGACCGGGGAAAAGGG $G G G A A A C A G G G A A G G A A A A G A G A G G A G G G G A C C G G A A A A G G A$ A G G A G G G G G G GAGGGCCGGACGGAAGGCAGAGAGAGAAGCAA G GAGGAAAAGGAAGGGGAACCAAAAGGCCGGAAAGGAAGGGG GAACCGAAAGGCAGGAAGGGGAAAAAAAGAAAAAAAGGATAG G G G A A A A G GCCAAAAAGGAGGAGGAAAGGGAAACCGGCAGAA GAGGAGGAAGGGAAAGGGAGAGGAAAGGCGGGGAGAGAAGAG A A A G G A A A A G A A A A GAAAAACCCGGGGGGAAAAAACCAAGAC $C \subset C G A A G A G G A A A G G G G A A G G A A A A G A G G G G A G A G G G A A G G C$ A G G G G A A A A C A T T G GAGGGAAGGTTAA G GAACC G G G G G G G C C A $G G A A A G G A G G A G G G G G G G G G A G A G A A A G G A A G G A A A A C C G G G$ G G G A G G A A GAGGGGAAAAGAAAGAAGGAAGGAAGGAAAACAA A A C G G A A A CAA $A \operatorname{GGGGGGGGAGCCAAAAGAAAAAGGGGCCGGG}$
 G G G G G A A A GAGGACACAGACAAGGGAGGGGGGGAGAAAGGAG GCCGGCCGAAGGAAGAAGGAAGGAGCATAGGGGATAAAAAAA G G G G G A G A A A A A A C CAGAAGGAAAAAAGGGGAGAACACAAAA GAAAAAGGAAAGGAACAAGAAGGAAAACCGGGGAACACAAAB A A A A A G C G G G A A A G A A A A A $\mathcal{A} G G G G G G G G A A A A A G G C C G A A G A$ AAGAGGAGGGGGAAGAAGGCCCCGAATAGGAGGAAAGAGAAG A GAAACAGGAACCGGAAGGAGAAAAAGACGAGGAAAAGAACC C G G G G G G A A A G A G G G CAA $\mathcal{A} G G A A A A G A A A A G G A A A A A A G A A A G$ A G G A G A A C C G G G G G G A G G G G G G A A A G G G G C C G A A G G G C C A A A G G G A G G G G A A A A A A A A G G A A G G A A A GA A A CA GAA G G G G G A G AAAGGGAAGAAGAGGAAAGCCAAGGCGCCAGAGGGCCGGGCA

A A A A G A A G G G G A A A A G G G G G G G G G G C C G G G G G G G A A G G G G $\mathcal{A} A$

 A A A GAGGAAAAAATTCCAGGGGGAAGAGAGAGAGAAAGAAAA A GACAGGAGCAACCAAAGGGAAAGGAAGGCGGAAGGAAAGGG GCAGAGGGGGGAAGACCAGGAGGCCCAAAGGGGGAAGAAGAA GCAGAAAAAGGCCAGAGGAAAGACAGAAGAGAAAACCGAAGG $A C C A A A A A A G G A G A A A G G G C C G G A G G A A A G G A A C A A G G A G G A$ A G G G G A G A G G G A A A A A A A A GAGGCCAGAAAGGGAAGGGAAAA $C G G G G G A A A A A A G G G G A G A A G G G G G G G A G A G A G G G A G G A G A C$ AATCCAGGAGACCAAAGAGGAAGCAGACAAGAGGGAGEACAA A A G A G G G C G A G A A A G G G A G G A G A G G C C G A G G G G G G A G G A G G G G G A TAACGGAAAAAGGAGGAAACCCAAACAAGGGGGAAAGAA A A G G G A A G G G G G G G G G A A G A A A A G GAGAAAGCAGACAA G A A A A G G G GAACCCGGAAAGGAAAAAGAGACGAGACCAGAGAGACA GAAGAAAGGAGGAAAAAAGACGGGGCAGGGGAGACCACACAA A GAGGGGAAAACCAAACAAGGAACCGGCXGGAGCCGGGGGGG GAAGGGGCCAAAAGGCAAAAGCAAGGGAGGGGGGGAAGAAGA GAGAAAGGAAAGAAAGAGAAAGGGGGGCCAGGGGGGGCAAAG GAAAAAAGGAAGGGGAGGAAAGGGGAACCGAAAGGGGAGGGA GAAAGAGCCCAAAGGAAAAGGGGAAGGAAAGGAGAAGAGGAC C GAAAAAAAAAGAATAGAGAACCCCGGAGGAGAGAGAGAGGA A A A A G G G G A G A A A G G G GCC G G A A A A G G GAAACACC GA G G CAA GA $A$ A A A $A$ A A A A A $\mathcal{A} G G G G G G G A A A G G G G G A G A A A T T A A A G A A C$ C G G A G G A G G A G G G A A A A G G G G G G G G G G A A A A G G A A A A A A A A A A G G G G G GCCGGAGACAGGACAGAGAAGAGGAAAATAAACACA AAACCAAAAGGAGAAAAAAATCCCCGAAGGAGGGAACTTGGG G G G A A G G A A A A A A A A A G GACCGAGGGAAGGGAAAAAAAAGAA A G G A A A A G G G G A A G G G GAA $A \operatorname{GCC} C G G G G A A A C G A A G A G A A A A A$ AAACAGAAGGAAGAAAGAAAGAGAACAAGGGGAGAGACCCCC $A C A G G C A G G G A G G A A A A A C A A G G G A G G G C A G C A A G A G A G A G G$ G GAGAGGGAGGAAACGAGAACGGGGGACCAGCACACCCAACA A G GCCGGAAAAAAGGGAAAACGGGGAGAACCAAAAAAAAAAA GAAGGAAAAGAGGGGACAGAACAGAAAGGAGAACCAGAAGBC C GAGGGGGGATAAAAGAAGAAACAGGGAAAGGAGGAAA GA GAC A G G G G C C G A G A G G C A A G G G A G A A G G GAAA A A GAAACACACA A A G G G G A A G G A G A G A A G G A A A A G A A A A A G GAAG GAAAAAAA A A C GAGGCCAGAGAACCCCAGAAAAAAGGGGAAGGGGAAAAGGG GAAGAGAGGGGCCGAAAGGAACAAGGGGGGAAGGGAGAAGAA
 A A A A A GAAAAGAACCACAAAACAGAAGGGGGAAAGAACCGGG G GAAAACGGGAAGAAGGAGGGCAGAGGGAAGAGAGAAGAAAA GAGGGAAGAGGGGAGATAAGAACAGCAGGGGGGAAGAGAAAG A GAA A G G A A G GCCAACCGGAAGGGGGGACAAAAAGGGAAATA A G GAAAAGGAACAAAAAAAGAGGAGCAAAGGACAAAACCGBA
 A A A A G G G A A G A C A T T A A G A A GAGGAAGAGGAGGGAGGAAAA G GAAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGGGGGGGA AAAGAGGAAGGAAAAAGGGAAAAAAACAGAAAAA GAGGGGAA A A A A A G G G GAAAA A GAAAAAGGAAAGAAGGAGAGAAGGA GAAA A G GCCAAAAAAGGGGAAAAATGGGGAAGGAAAAGBAAAAGAG $G G A A A G G G G A A G G G G G A A A A G A A G A G A G G A C A G A A G A A A A A A$ C A C A T A G A A A G A G A A A A A T GA G G G G A A G G A GAA G G A A G G A G G GGGCCGGGGAAGGCCAACCGGAAGAGAAAACGGGGGGCCGGG G GAGAGAACAAAGCGCAGGCCGGACGGCCGGGGGGGGGAGAA GAGCCAAAAAGGGAAAAAGGAGAAAGAGGGGAAAAGGGAAAAG
 G A A G G A A A A G G A A A A A A G GAGGAGAGGAACCAAAA G G GAACAC $C \subset A C C A C A G A A A G G G G G G A A A G G G G A C G A G G A A A A C C G A A A A$

AAACCAAAAAAGGGGAACCCCGGGGCCAGCAAAGAGGAAGAA $A C C C A G G G G G G A G G G G G A A G G G G A A G G A A A A A G G G A A A C A G A$ G G G GA G G A A C C G A GAA $A \operatorname{AGGGAA} \operatorname{GA} A A A G A G G G A A A A A A G G G G A$ GAAGGGGAGAAGGAAGGAAGGGGGAGAGGGAACCAAGAAAAG GAGGGAAAGAAAGCCAGAAAAAAGGAACCGGAAGGGGAACAA G G GACAAGGAAGAAAAGCCGGAAACGAAAAGAGAAGGCAAAG A A A A A C C A G G A G G A G G G G G G G A G G A A A A A A G GA G G G G G A C C A AAAAGGAAAGAAGAGGGAAAAAAGGGGAAAAGGGGAAGAGAA GAGGAAACCCCAACCGGAAGGAAGGCCAAAAAAAAGGGAGAG AAAACGGGGAAAAAACGAAAAAACCGGACAAAAGGGAAGGGG GAAGGAGGGAAAAACCCGGCCGGAGAAGGGAAGGGGGCAAGA G G GAACCAACCAGGGAAAACCAAGAAGGACCCCGGGGAAGAA


 GACGGAGAAGGAACCGGAAGGAACCCCAAGGGAGGACACAAC A GAAA A $A$ A A $A G G A A C G G A A A A G G G G A G G A G G G G A A A A A C A G G$ $A G G G G G G G G G G G G G A G G A A A A C C G G G G G A A G G A G G G G A A A A A$
 GAAGGGAAAGAGAGGCCAGGGGGGAAGAAGGAAGGAGAAAAG
 A G G G G G G G G G GAACAAAAAAAGGAAAGGAGGACAGGACAAC G G G GCCAGAAAAAGGGGGGGAGGGCAAGAACCGGAAGGGGGGG $G C C G G A A A A A A A A G G G G G G A A G A C C A G C A G A G A A A A G A G C A A$ G G G G GAA GAGACCACCCAGCCCCACGAAAAACAAGGAAAAAA G G GAA $A \operatorname{G} G \mathrm{G} A A \operatorname{A} G A A A A A A G A A A G G G A A G T T A A G G A A G G G G A$ GAGGGGGAAGGAAGGCCAAAAGGAAAAGGGGAGGAGAACGAA GAGGGGAGGCCGGGGAAGGAAAGACAGGGCCCAGAAGAAAGC A A A A A A ACCCCCCCACAAACCCCAGGAAGAAAAGAGAGGGAA AAAAGGGCCAGGGAACCGGAGAGAAGGAAGGAAGGGGACGAG ACCAAAAGGAACCCCAAAAAGAAAGGACCAACCCAGGEGAAG GAAGGGGAAGGGAAGCCGGCACAGGGGAAAAAAAAGG
$A G C C G G A C G G A A G G G G C G A A G G G G G C A A C C G G G G A G A A A A G$ GAAAAAGCCGGGAGGAAAGGGAGGAAAAAAGAAAAAACCGGG
 $A G G A A G G G G G G G G C C G G A A G G G G A A G G G G G G G G A A G G A A G A G$ G G G G G G G G G G G G G A A A A G G G GAA A GAA GAGGCCAAA G CA GAA $C \subset C A G G A A C G G G G A T G G G A G G A A G A G A A G A A G G G G A C A G C C G$ A A G G G A A A G G A G G A A A A A GAAAA A $A \operatorname{AGGAAAAGGGGCAAAAAG}$ $A G G G A G A G A G G A G G G A G G G G G A G G G G G A G G G G A G G G G E A A B A$ $G G A A G G G G A G G A G G G A G G G A A A G G A G G G A A A G G A A G G G A G G A$ A A GAGAGAAGAAGAAAAAGGAAGACAGGGCCAGCAGGGAAAA GACAGAGGACAAAAAAAAAGAGGGGCAGACCCCAGGGAGAGA G G G A A G G A A C A C C G G G G G G G G A A C C C C G G G GA GA G G G G G C A A GA $A$ A A $A G G G G G G G A A G G C C A A A A G G G G C C A A G G A A A A A A G G A$
 A G GCCAAAAAGAGGGAAGGGGAAAAAACCAGGAAAGAGAAGA AAACCAGGGGGGAGAAAAGCAAAAACCAAGGAGAGCAAGGGA G G GAAAAAAAAAAGGAACCAAAAGGCAAGACAGAACCAAGGC CAAAA $A \operatorname{A} A \mathrm{~A} \subset A A G A G A G G G G A A G G G G G G A A A A G G G G A A G A A C A$
 $A C C A A A A A A G G G G A A A A A A G G G G A A G G G G A A G G A A A A G G G G G$ GCCGGGGGGAACCAAAGGGGAAAGGGGAAAAAAGGGGGAAAC CAA $A \operatorname{A} A A G G G G G C G G G G G A G A G G G G G A A G A G G G A A G G G A A A G$ $A G G G G G G G G A A A A G G G G G G A A G G A A A A A A A A G A G A A G G A G G A$ A A A G G GAA A G GAGAACGGGAGAAATGGAAGGGGAAAGACAC G G G GAA A A TTGACAAATTAGCAGGGGAACCGAGAAAAAAAAAG G A A G G G G A A G G C C G G G G G G A A G G G G G G A C G A A A A A C C G A C C A $G C A G G A A G G A A G A G G G G A A A A C A A A G G G G A G C A C A C C C A G G A$

ACCGAAAGGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAA A A A G G G A G A G A A A A G G A G G G G G G G G G GC C A A G G A TAACA A A A GAGAAGGAGGAAGGAGGAACCGGAAAAACGAGAAAAAGAAAG GAGAAAGAAAAAAAGGGAGAGAAAAGGCCCCAAGAGGAAAAG GAACAACAAGGGGGGGGAGTTAAGGGGGAATGGCCGACAAGA GAAAAGGGACCAAGGAAAAAGGGCCGAGAAGGGGAGGGGGAG GAAA A G G A G G G A A G A G G A A A C G G G A G G A GAAC G T TAA GA G G A GAAGAAAGGGAGGAAGGAAAACCAAGGGGAAGGGGCCGAAAC
 AAGACAAAAGGGACCGGGAAGGAAGGAGGGAAAAACAAGGGA G $G A C C A G G G G G A A G G A A G G G G G G G G A A G G G A G G G A A A A G G G G$ A G GCCCAAGGAAAGAAGGGGGCAAGGAAGCCAGAGGGCAGGG GA $A \operatorname{A} \boldsymbol{A} G \mathrm{G} C A A G A A G G A A G G A A A A G G G G G A A A A G A G G G G A A A G$ G G G G G G A A GAGGGGAAAGGCCAAGGAAAGAAAGBAACGACAA GCAGGGAAAACCAAAAGGGGGGGAATTAAGAGGAAAGAGAGG A G G G GAACCAGAGAGGGAGAGAGGGGGAAAGGAGGGGACAAA G G G G G A C G GA G A A G G A G G GCCA $\mathcal{A} G A A A G G G G G G G G A A G A A C A$ C G GAAGGAAGGCCAAGGAAACAAACGGGGAAGAAGAAAACAA $A C C A A C C G G A A G G A A G G A A A A A A G G G G A A C C A A A A A A G G G G A$ A G G G G A A A A A A G G C C G GAGCCGGAAAAGGGGCCAA G G CACA G A AGGAGGGCAGGGGGAACAACAAAGGAGGAAGCCAAAGAGAAG

 GAAGGGACAAGCCGGAAGAAAGAGGTTAGAAAAGGGGGAA GT TCACCCAGAGGAAGGAAAAGGAAAAGGAAGGCCAACCCAGAG G G GAGAAGGAGGGGAAGCCAGAGAGAAAAAGGGAAAAAAGGA
 A A A G G G G G GAAAAT TACAAAGGGAGAGGGGAGGGGGGGAAAA A G G A G A G G G G G G G A A A A A A A A G G G A G G G G CACC G G G GAAC C C C G G A A A A A A A A A C G A G GAA AGGAGGAAAACGGGCCGAAAGA G $G C C C A A C A A G G A A C A A G A A A G C C A A G G A G A G A C A A A G G G A G G$ A GAAAAAGGCCGGGGAGAAAGCCAAACGGAGCCAAGGAAAGG

 $G C C A A G G A A A A G G A G A G A A G G C C G G A A G G A A A A G G A A A A G A A$ $A G A G G G A A G A G G A G A A A A A G G G A A C G G G A G G G A G G A G G A A G G$ A AC G GAA $A \operatorname{A} A A G G A A A A T T G G G G G A G G G G G G G A G G A A A G G G A$ AAACCAAGAGGGGCCGGGGGGAAAAGGGGCCAGAGCCAGAAA C C C A A A A G G G G GA G G A A A A G G G G G A G A G G G A A A G G G G G A A G A GAGAAAAGAAGGAAATTCCAAAAAAGGCCAGCCAAAAAAAAG G G G G G A A G GAGGGGGGGGGGGAGAGAAGGAAAAGGAACAAAG AAAGGGGCAAAAGAAGGAAAAGGAAGGAGAAAAGGAACCGAG GAAACAACCAGGGAACCGGGGAGGGGGCCGAGAGGGGGGGGG GAGGGCCGAAGAGAAAGAAGGACGACAAGGGAAGBAAAAGAG AAAAAGGCCAAAGGGACGGGGAACCGAAGAATTAAGACAGAA A G GA $\operatorname{G} A A \operatorname{A} G A A A A G G \operatorname{A} A A A G A G G G A G A G C C G G A A C C G G A A G G G$ GAAAGGGGAGAAGAAGAGGGGAATTAAAGAAAAGGCAGAAAA A GAGGGGAAAAAAGGGGAAAGAAAAGAAAAGCCAAAAGGGGC $C G G G G C C G G C C C A G A G A A A A G C C C C G A A G A G A A A A G G A A A G G$ G GACAAAGGCCGGGGAAAGGGAAAAGGAAGAGAGGCCGBCCG GAAGGGGAAGGGGGGGGCCGGCCGGGGGGGGGGGGAAAAAAC CAAGAAGGGGAAAAGCCAAGGAGGAGGGAAAAAAAGGCAAAA C G A A G T T A A G G G G G G G G A A G G A A G G A G G A A G A A G G A A C G A A A A A A GAA A ACGGAAAAGAACGAGGCCACCCACGGACAAGGGGA AAAGGGGGGAAGAACGGGGAAAAGAGGAAGAAAGGCAGGGAA A G G G G G G G GAGAAAAGGGGAAAAGGAAGGAAAAAACCAACAA ACCAAAAAAGGGGGGGGGGAAAAAAGGAAAAGGCCCCBAAAAA A G G G GAGACAAGGAAGGGGCCAGCAGGCACAAGAAGGCABAA G G G A A A A G GCCGGGAGGGGGGATAGAAAAAAAAAAGGGGGGA
 GAAA $A$ A A A G G G G G G A A G A A A G G C G A T G A A A G GA G G G G G G G A A $G$ G G A T T A C A A A C A A A G G G G G G G A G A A G G A A G GAACAAAAA A A G GAACAGGGGAAAAAAGAAGAGGAACAAAAAAGAAAAAAGAAA GAA GAACAAAAGAAACCAAAGAAGAAAACAAGGGGAAGAGAA $A C C G A C C A A C C A A G G G G A A A A A A A A G G G G G G G G G G G G A G A A A$ C GAGACCAAAGAAGAGGAGCCGGCCAGGGGGGAGACAGAAAA G G G G GAAGGAAGGCCAAGGAAAAAAAAAAGGAAGGAACAAAG GAAACGAGAGGAAGGGGAAAAAAGAAAAAGGGGGGAAAAAAA A GAGGAAGGAAGGAAGGGACAAAAAAAGGCAAGCACCCCBAA A G GAAAGGGAAAGAGAGAGCCGAAGGGAAAGCAGGAGAAGAA AAA A A GAAAAAGGAACAAAGGAAGGGGGGAGAGGAGGGAAAA GAGGGCCAGGGCAACAGGAGAGGCCACGACCAAAACGGGGGG GAAC CAACCGGGGGGGGGAAACCGAGACAAACCGGAAGGGGC C GAGAA GAAAAGGAGCAGGTTAGGGAGAGGAAA GGAGCCGGG A GAA $A \operatorname{G} G A C G G A A G G A G A A G G A G A A A G G G C C G G A G A C A A G G G$ G G G G G A A A A G G GC C C G G G G G G A A A $\mathcal{A} G G G G G G A A G G A A G G A G G$ A G A A A A A G G G G A A A G G GAGCC GAAAAAAGGGAAA GAAA GA G C CAAAAGGGAAGGCAGTTAAAAAAGGGGCCAAGGGGGAACACB GAAAAAAGGAAGGCCGGAAAAGGAGGGGGGGAGGGAGCCGGG AAGGAGGAACAGGAAGGAAGGGGGGCCGGAAAAAAGGAACAA $A C C C C G G A A G G G G G G A A C C C C G G G G A A G G A A G G G G A A A A A A A$ AAAAAGAGAAGGAGACAGAGGGGGGCCAACAGGAGAGAAACA A GAGAAGGGGGCAAAGGAACCAACCAAGGAAAAAAAAAGABC GCAGGGAAAGGAAGGAGGAGGGGGGGAGAAAAAGGAAGAAAC C GAA $A$ AAAAAGAAGGGAAGAAAACCAAACAAAAACAAGAAGA G GCGGAAGGAGAAAGCAGAGGAGCCGGAAAAGGAGAGGAAAC C C C A A A A A GCCAGCAAAAGAAAACCAAAAGGAAAAAGGGGGG GAAGGAATTGGGGCACACCAAGGGAGGAAACGGGGGGACAAA ACCAAAAAGAGAAAAAAAGAAGGGACCGGAGGCGACAGAAAG G G G A A A G A G G G GA G A G A A A A A GACCAAAGAAACGACACAA GA A A GAACCGGAAGGGGAAGGAAGGAAAAAGGGAAGAAA
CAAAGAAGAAGAAAGGGAGGGGAAGGCGAAAGGGGGGAGGG GAGGAGAGGCCACGAAAAAAAAAGGAGGGGAAGAGATAAAAA ACCGGGGGGAAACAGGGAACCGGGGGGGGGGGGGGAAAAAAA G GACC G G A C G A A G G G G GAA A GAAA A GACAGACCGGCCAAG G G GAACCGGAAAAGGAAGAAAGGAACCAGTAGGAAGGAAGAAAG A A A A GAAAAAA A GAAAAGGGGAAGGAGGAAAAAAAGGGAGGA ACAGGGGGGAAACGACAGGAAAAAGGGGGGGGGAGACAAAAA GAAGGAAAAAACCACGAAACAGGGGAAAAAGTTAACCACA GA A GAGAAGGGAGGAGACCGAAGAAAAAATAAAGGGAGGCAAGA CAAA A G G G GAAAAAGAAAAAAGAGACAAGGAGGAGCAAAAAA A G GCCCCAAAGGGGAGGAGGGGGGGGAAGGGCCGAGAAAGAC GAGGAAAGGGGGAGGAAAAACAGACGGCCGACCAAAGABAAG A A GCC GAGGAAAAGGGAAAGGGGGAAGCCGATAAAAGGAGAA A G G A A A A A GAAAAAAGGCCAACCGGAGAAGGAAGAAAAGAGG A A G G G G GAAAAGAAAGGAAGGAAAGGGAAAAGGGAGAAAG GA A GGCCACAATTAACCCGAACCGGGGAGAAAAAAAAGGAAGGG GAAA A A A A A GAA $A$ A A G G G G G GAGAAGCAGCAGGTTCCAGAA G AAGCCAAGAGACCGGGGGGAAGGAGCCAAAAGGGGCCAGAAA G G G G G A A G GAA $A \operatorname{GA} A A G A G A G C C G G A A G G A A G G C C A A A A A A A$ AAACCCCAAGGGAGGAAAAAAGCAAAGCCTTAAGGGGCAAAAG G G G A A A A A A $\mathcal{A} G G G A G G A G G G G G G G A A A A G A G A A A A A A G B A G A$ GCCGGGGCCGGAGGGGAAAGGAGAAAGAAGGAAGGGGAAAAA GAGAAAGGGAGGGCCGGCCGGAAAACCCCGGGGAGAAAAAAA AAAGGACGGGAGGAGGACCAACCGGGGGAGAAACCGACAAAG GAGGGCAAGGGCAGGGGCATTGGGGGGAGCACCGGGAAAAAA A GAG G A A C C G GCC G G A A A A G GAA G GAA A GAAAA A A CAA G G G C $C G G C C A A A A G G A A G G A A A A G A G G G G G A G A A A G A A G T A C G A G A$

A A A G G A G A A G G A A GAGAAGGGAGGAGGGGGAGAAAGGGAAAA $A C C A G A G A A G A G G G G G G A A G G A A G A A A G A A A G A C C A A G A A A G$ G G G G G A A A CAAAAGGAGGAAAAAAACCGAGAGATTAGCAAGG GCCGAGGAAAGAAAGAATTGAGGCAGAGGAACAGGAAAAGGG A A A A GAACCAAAAGGAAAACCACGAGAGAAGAAAGGGGBAAA A G GAAAAAAAAAAGGCAGGACGGAAAAAAGGGGAAAAGAAGA
 GAAAGAGAGGGAAAAAAAAGGGGAAAAAAAAAGAGGGGAAAA A A GCCATAGAGAGGACCAAGGGGGAGGAAAAGAGGGGCCGGG A A GAGGAGAGGAGAAAAGGGGGGGAAAGGCCCGCCAAAGACA $C \subset C G G A A A A A A A A G G C C A A A G A A G G C C G G G A T A G G A G A A G G C$ C G G G G A G A GAA $A \operatorname{GC} A A A G A G A G A A C C A A A A G G C C G G C G G G G G A$ $A G G G G G A A A G A G G G G G G G G G G A G C C G G A A G G G G G G G G G A A A A$ $A C C A A G G A A A A G G A A G G C C A A A A A A G G A A G G A A G A A A A G G A A$ G GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAGAAC $C G G G G G G A A G G A A G G A A A G A A A G A A A G A G G G G G A A C C A G A A G$ GAAGGAAAAGGAAGAGGAACCGGCCAGGGAGAGACGAAGACA G G G G A GACCGGGGAAAAGGAAGAGGAAAAGGGGAAGACAGAA $G G G A A A A A G A A C C G A G G G C G G G G G G C A A A A A C C G A G A A A G$ GAAGGACCCAGAAAGAGACCCGGAACCAACCAAGGGGGGGGA A A GAACCGAGAGAGGAAAGGGGGCCGGCCGGGGGGAAAGAAG GAGAGGGGGGGAGGAGACCTTAGGGCGAAAAAAAGAGAAGAA G G G A G A G G GCCCCACAAGGAAGGGGGGCCGGCCAGGGGGGAG A A A G G A A A A G G G G G G G G A A A A G G A A G G CACAGGGAAAA G GA G G GAGAGGAGGGAGGAGGCCAAGGTTGGGGGGAAGAAAAGAGA AAAAAGGCCAAGGGGAAGGAGAGGGGGAGAAGACCGAAAGAA G G GAA $A \operatorname{GCC} C \subset G G A G A A A G A A A A G G C C A A A A A A G G G G A A G G A$ A G G A A G G G GA G GAAAAAAGGACACGACCACGGGGAGAGAGAAA GAGAAAAGGGGCCAGGGAAGGACCCGGGAAACCACAACCGBA A GAAGCAA $A \operatorname{A} A \mathrm{~A} A \mathrm{~A} C A G G A G G G A A C C A A C A G G G G G A A G G G G G A$ GAGGAACGGGAAAAAAAGGGGAAGGGGAAGAAGAAAAAGABA GAAAGAGAACCAAGGACAGGGAAAAAAAAAGAAGGAGGAGGA G G G G G G G G GAA $A \operatorname{G} A \mathrm{~A} C \subset A A G A G G A A G G A A A A A A A A G G C A G G G$ $A G A A G A G G G G G G G G A G G A A G G C A G G C C A G A A G G G A G A A G G G G$ G G GAGGAAAGGCCGAAGAAGGAGGAGGGGAAGGGGGAAACAA A G G A A A A A A G G G A A A A A $\mathcal{A} A G G G G C C G G A A G A G G A G G A G G G G A$ CACGAACAAAGACAGCCAGTTGGAGAGAGAAGAGAAAAGAGG
 A A A G G GA GAGAAGAAAGAGAGACCCAAGAGGAAGGAAGAGAA
 A G G G G A A C C G G G G G G G G G G A A G GAA A G A A A A A A G GAAAA A G C C G G G G G G A A A G A C A GAA A A A GAAAAGGAAGGAAAAAAGACCG G GACCGGGGGGAGGGAAAACCGAAGGGGGCACCAACAGAAAG
 AAAAACCAAAAGGAGGGAAGAACGACAGACCAAGGGGAAAAG A GAGGAAGGAAAGAGAAAAGGCAGGGGAGAGAGAGAGAAAAA C C G G A A G A GAA A G G GAGAAAAGGAAAAACAAGGGGGAAAGGA AAACACAAAAAAAAAAAAGGAGGGAAAAAAGGAGGAAGAAAA GAGGAAGAAGAGAGGAGGAACCCAAGAGAGAACGGGAAAAAA G G GCCAAAAAGGGCCAAGGGAAAGGAAAGGAGAAAGAAAAAG A G GAGGGAAGGGGAAAAGGAAGGAAAGGAGAGAAGCCAGGAA G G GAA A A G GAACCAGGCGGAAAAGGAGAAAAAGCCAAA GAAA A G G A G A A A A C A G G A A A A G G G G A A A GAAAAA A A GAGGGCAACA AGGAACAGGGGAAGGAAAGGAGAGAGGGAAGAAGGGGAAAAG
 G G G G A G G A GCGGGAACAAAGGGGGGAAAAAAGGGGGAAACAG G G GAGAAAAGGGGGGAAAAGGAAAAGGAGAGCCGGACCAGAA
 GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG

GCCGGAGGGAAAAAAGAAGAAACAAGGGGGAAAGGAGACGGC
 GGAGCCCGGCAGGAAAACCAACCGAGGAGAGAAAGGCCAAAA A G GAA A GAAGGCCTAAGAGGGGGAGAGAAGGAAAAGAAAAGA GAA A GAAGGAAAAGGGGGGCCAAGGGGAAGGAAACGGCCGGG GAAAAGGGGGAAAGGCACCAGAAGGCCAAAACCAACGGGGGG G G G G G G G A A A A C C C G C C A A A G G G G G GA GA GA GAAA A A G GAAA AGGGGAACCAAGAGAAGACATAGAACACCAAGAGGTTAAATG A G A G A G A G A A A A A A A G G G G A A G G A A A A G G G G C A G A G G A A A G A AAAAAAGGGGAAACCGGCCAAAAAAGGCCACGGGGGGAAAAG GAAGAAGAGCGAAAGTTGAGGAAAAAAAAGGCCCCCCAACAA GAGAAGAAGAACGAAGGGGGAATACCCCCAAAGCCCCAAGBA A G G A C G G A C A G A G G A A G A A A A G GAA A GAACCGGGGAAA G GAA C G G T T A A G G G G A A G G G A A A G G G A G A A A A GAA A G G G C A G G G A A A A G A A A G A A G G A A G G G G G G G A G G G A G G A GAA $A$ G A A A G C C G $G A$ AAAGGAAAAGCGGGAGAGGCCGGAGATAGCCGGAGCCGAAAG GACAACCAAAAGGAAAGGGAAAAAGAGAGAAGAAAAAGGGGA
 A A G A A G G G G G A A G G G G GAC G G G G GAGCAGAAGGGGAAAAAG G GAGAGAAAAAAAGAATAACAAGGGGAAAAAGGAAAGAAAAAA AGGTTGGAAGGAAACCGGGCCCAGAAAGGGGGGAGGGAAAGA
 A G G G G A A G G G G A A A GAA $A \operatorname{AGGAAAGGGAAAAAACAAGGCCGGG}$ GAGGAGGCAGAGGGAAGAACCGAAGGGAACCGAACAAAAAAA

 AAAAACCAAGGGGAAGACCCAAGAGAGAAAACAGAAGGGAGC CAACCAAGACCAAAAAAAGAACCGGAGAAAAGGAACCGBCAA $A C C A A G G C C G A A G G A A A G G G G A G G A A G A G A G A G A A A G A A G A C$ AAAGGAGGGAACCGGAGGGAAAACCAGCACAGGAAAAGCGGA A A G G GCC G G A G G G A A G G C A GAG GAAAGGGAAGGAAAA GAAA G AAAGGGGCCAAGGGGAGGGCCACACAAAAAAAAAAGG
G GCAGAGGGGCCAAGGGGACGGGAGGAACCAACCCCCACCG GAAGGAAAAGAAGAAAACCAGGGGGAAAAAAGAGGCAAAGAG G G G G A T T G A A A A G A A G G A A GAA $A \operatorname{G} G A A G A G G G A A A A G A A C A A A$
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 A GAG $A \operatorname{G} \operatorname{A} A \mathrm{~A} G \mathrm{G}$ GAAGGAAGGAAGGGGGGGGCAGGGACAAGCAA
 AAGGGAAGAACGGAAGATTAGAAAAGAGGAGGGAAAAGGGGG

GAAGGGGAGAGGGGGCCAAAGAGGGAGGAGGAAGAAGCCGGG G G G C A G A G A G G G G G G G G G G G C G G G A G G A G A A A C C C C C A A G G G AGGAACCCAAAAGAGGGCCAAGAGACCCCAAGAGAGAAAGGA G G GAGTAAGAGGAAGAGCCGAGGAAGAGAAGGAGGGAAAAAA TAAAAGAAAAGAAAAAAAAGGAAAAAAAAGGGGAAATCAGAA G G G A G A A A A G A A A A C C C G G A A A GAAAAAACCCCAAACA G GAA A G G A A G G G A A A G G A A G G A A G GCCAGCC G G G G G A A A A A G G G G A GAGGGGGCCAAAGAAACGGGAGGGAAAAAACCAGGACGAAGG G G A A A C C G A G A C C G G G G G G G G A A G G A G G A G G G G G G T A A A A A $G$ AAAGAGGAAAACAAAAAGGAACCAGGGAGTTGGGAGAGAGGC CAA $A \operatorname{GA} A A A G A A G A A A C G A A A G G G G G A G G A A A G G A G G C A A A A$ A A G G G G G A A G G A C A A A G A A GAGGAAGAAGAAAAAGAA GAAA $A$
 C G G G G G GAACCGAAAAAAAGAGGGAATAAAAAGAGGGGACAA AAGCCGGGGGGAGAGAGAAGGGGGGGGGGAAGGAAAACCGGG GACTAAAAAAAGAAAAGAAAGGAAACAGGCAGGAAAAGAAAC C CAGGGAAAACGGGGAAGGCCCCAGGGGAAGAGGAAGAGGAG A G G A A A A A A GACCAAAGAAAAAGAGGAGGCCACAGGGAGCCA GTAAAAAGAGGGAGGGGAAACGGAAAGAGCCAGAGCAAAAGA GAGGAAGAAAAAGGCAAAGGGAAGCAAACAAACCCGBAACCA
 GAGACAGGAGGAAAAGGGGGGAAGGCCGGGGGGAAGAAAAAG A GAA A G G A GAAGGGAGAGAACAGCCAAGGAGGGGGAAAAATA $A C C G G A A A A C C A G G A G G G G A A G G G G A A A G C C A A G G A A G A G A A$ ACAGAAAGATTGGGGAGAAAGCCAGAAAGAAAGAGGACAGGA
 G G GAA $A \operatorname{GA} \operatorname{A} A C A G C A G G G A G A G G A G A G G A G G G A C C A A G G G A C$ $A C C G A G G A A A A G G G A G A A G C A A G G A A C G A G A G A A A A A G A C C G$ A G G G G GAGAAACCGAACGGCAGAAGAAAGAGGAA GAA GAGAA $A G G A G G A A C G G G A G G A A G A A G A A G G G G A A A A G G G G G G G A A C B$ A G G A G A G G A A G A G A G A G G A G G G A G A G G G G G G A A A A G A C G C C C $A A C G G G G G A A G G G A G A G G A G G A A G G G A A G G G G G A A G G G G G G A$ G G G G G A A G G G G A G G C G G G A A A G G A G G G G G C C G G A G G G A G A $G A$ C G GCC G G A A G G G G C C G A T TAA GAACAAAAG GAAAA G GA GACA GA $A \operatorname{A} A G G G G G G C C A A G G A A G G A G G G G A G G G A G G A A A A A A G G C$ CACAGAGAAGGAAGGGGAAAAAAGGCCGGAAGAGAAACGGGA A G GAGGCGAGACCAAAGGGGGCCAACCGGGGAGGGGGGGGGA G G G G G G GCCGGGAAGGAAGGGAGAAGGAACCGAAAAGGGGGA GAGCCGGAAGGAAGACAAGATGGAGGACCGAAGGGGAAAGAA C C G G G G GCCACAAACGACAAAGGGGGACCGGGGGGAAGAAAC CTAAAAACCCCGGGGAACGGAAAGGCCAGGGGAGGGGAAAAC CAAGAAAGGAAACGGGAGGGGGGGAAAGGGGAACCCCAAAAG G G G GCA GCCAAGGACAAGAGGGAAAAAAAAAAAACAGCAAAG $A C C G G G G G G G G C A A A C C G A A C G G G G A A G G A A A G A A G G G G G G G$ GAACCAACCGAAGAAGAGGGGAAAAGGAAGGAAAAGGGGCCG $G C C C C A A G G A G A G G G G G G A G G G A G G A A A G G A A C A A C C A G A A A$ AGGAAAAAAAAGGAACCAGATGAAAGAGGAGAGAAGAGACAG A A GAA A G G G G G A GAACCAAGGAAGGAAAAGGAAAAGGAGGCG G GACCAAAGAAGGAGAGAGCAGGGGAGGGAAAAAGAGAAAAA A A GCCAGGACAGGAAAAGGGAGGACCCGGAGGGGGAGAAAAG G G GAA $A \operatorname{G} G A A C G A G A A G A A A G G A A G C C A G G G G G A A G A A C G B C$ AAAAGGGCCCCAGGGAAAAAAGGGGGGGGAAAGGGGGGAGAA
 G GAGGCAAGAGGGGAGGAAAGAAGGGAAGAAAAGGGGACGGG A A A CACAGGGAGAAAGGGAAAAAGGGGGGGGAAGAAAGGCCG

 A G G A A G G G G G G A G A G G A A G G G A G G A GAGGCCGAGGAAA A A A G GAAGAGGGAGAGACCGGAAAGAAAAAGAGAGAGGGGAAAGAA

GAGCCGGGGAAGAGAAGAGGGAAGGGGGGAGACGAAAGGGGA $A G G G G A A G G G G G G A A G G A A G G G A A G G G G G A A G G A A G A A A A G G$ A A A A GAAGGGGGGGACCCCGGAGGAGAGGGAAGACACAGA GA AA GAAAAGGAAGGACAAAAAGGAGGAAAGGAGAGGAAAAGGG GACCCGAGGCCGGAAGGGGGGGGGGAACCGGCCAAAAGGCCA G GAA A GAGGAGCACCGGAAAAGAGGCAGAAAGGGACCAAGBC $C \subset C G G C A C C A A A A A A G G A A G G A A A A A A G G G A A G G G G A G G G G A$ A G G A A A A A GAA $A \operatorname{GCC} G G A A A A G G A G A A A A G G G A G A A G G G C C G$ $G C C G G G G A A G G G G G C A C G A G A A G A G G G G A G G A A G G A C G A A C G$ GCCGGTTGAAAGGCAACGGGAGAAACAGGAAAGGGCAAAAGA G G GAGGGAGAGAAGGAAAAACGAAGCCAAGGGAAATTAAAAA A G G A A G GAA $A \operatorname{GGG} A A A A A A A G G A A A A G G G G G A G A A G A A C C C C C$ CAAGACCGGAAGAGGAAGGGGAAGAAAAAGGGGCCAAGAAAA A A GAG GACAAAAAAAAAAAAGGGAACCCAGGCGAGGGAAAAA A G GAGAAAGAGGAACAGAAAAAAAAAAGGCCAAAGAAG GAAA $A C C G G G G A G G G G G G A G G A G C A G A G G G A G A C A G G A A G A A A G A A$ AAA $A \operatorname{GAAAAAGGAACAAAAAGAAGGAAAAGAGAAGGAAGACA}$ G G G A A A A C C A A A A G A G A G GCAGACAAGGGGGGGCCAACCGGA AAAGGGGGGCCAGGAGAAAGAAAGGAAAAGGGAACACGGGGG G GAATAAAGCGCAAAGAAAACCGGAGGAAAGGGGGGGGGGA GAGCCAGAGAACAAAGAAAGGGACGGGAAAAGAGGGAGGGGC A G G G G A G A A G G A G G G G GAC G G A A A GAC GACAAAAAATAACAC CAAAACACCAAGGAAGGGAAAGAAAAGAGGGAAGGAGA GGGA GAAGAGGAAAAGGAGCCCAAGGAAAGCGGGGGGGGGGGACCB GAGGGCCCCGGAAGGGGAAAAACGGAAAAAAAAGAGGGAAAC C G G A G A G A G G A A G G A G G G G A G G A A A G G G G G GAAAAAACAAA A A A GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} A A A A A A G G G A G G A G G G A G A G G G G G A A G G G A A G A$ A G G A A A A A G GAAAGGGAGGGGAAGGGGAAAGAGAAAAA GAAA A A GAGGAGAGACCGGGGGAGGAAAAAACCAAAAGGGGGAATG GGGAACCGAAAAACCAGGGCGCAGAAGAAGGAAGGAGAAGGG A A GAA $A \operatorname{GA} A A C G A G G G G A A A A T T G G G A G G G A G A G G A A A A G A A$ AAAAAGGGGAAAAGGAGCCACGACAAAGGAAAAAACG
C C A A A G G G A A G A A A C C G G G G G G G G G GAAAAAGGAGAAAAAA A G GA $\operatorname{A} G A C C G G A A A G A G A G A G G G A A G G A A G G A A A C A G A A G G G$ A G G A A G G G G A A G G A A A A T T A A A A A A A G GAGGAAA GAAAAA GA A A A A A A A G G G G GAGAATACCCAAGGAAGACCAAGGAAGAGAA A G G G G GAAACCGAACAAGGAACAAAAAGAGGAGGAGAAAAA G GAGCCAAAATAAGGGGGGAGGAGAAGGAGGGGGGAAAGGAGG GAGAGGGGAGCAAACAACCGGAAGGGGAAAGAAAGAAAGAAA G GAGAGGGGGGGGGGACAAAAGGACAAAAAGAGAGAGAGAAA A GAACGAGGGGAAGGCCAAGGAAGGCCGGAAAAGAAGGGGGA CA $\operatorname{C}$ TAAAGGAAAAAAAAAAGGAGAAGGGAAACCABAAAAAAC AAACCCCCCAAGGAGAAAGAAGGAACCAAGGGAGGGAGGAGA A A G G A C A G G G A C CA A G G G GCC G A TAGAAAGGGGCCAAAA G GA A GAGAAAAAGGGAAGAAGAAGGGGGGGCCGGGGGAAGGACAA AAAAGAAGGAGAAGAGAAAAAAAGGAAAAGGGAAAGGAAAAA GAACCGGGAAAAAGGACACGGGAAGAAGGAAAAAAGGGAGAA C G GCC GAAAA A A G G GAAAGAGAAAGGAGAGAGAAGGAAAGGA G GAGAGGAGGACCAGGAAGGGGGAGAGAGCCAAGGGGGAAAA A G G G G G G G GAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A A C A A G C C A G G A C G A G T T G G G G A$ A A A A A A G G G A G A G A A G G G G G G G A G G G G G G A A A A G G A A G G A G A G G G G G G G G GAGCACCGGAAAAGGGAAGGGAAAACAGACAAAA A G A A A A A G A G A A C A A A A A A G G A A A A G G G G G G G G G G G G G G A G A $G C C A G C C A G G G A A G G G G A A A A A A A A G G G G G G G G G A C A A A G G G$ AGGAAGGCCAAAAAAGGAACCAACCGGAAAGGGTTAAAAGAA AAAAGGAGAGACAGACAAAAAGAGGAGAAGGGACCGGBACAA A G A A A G G A A G G A G A GAA $A \operatorname{AGGGAAAAAGGGGGGGGAAACAGAA}$ AACAGGGGAGGAGGGAACGACAAAGGGGGGGCCAAAAGAGAA A G GACAAAGGAAAGGGAGGATACAGAGAACCCATAAGAGGGG

GAGGGAAAAAGGGAGGGGAGGGGGGAGGACACAGAGGGGGGA G GAAGCCAAAAAAAGAGAGCAAGCACCGGGAGAGAGGAGAGC C GAAGAGAAAAAAGACCACGGGGGAAGAAAAGAAGGAGAGGA A A A G GAAAA A G GAGAGGAAGGAACCAAAAGGAGGAAGGGAGA GAAAGGGAAAGAAGGAAAAGGGGGAAGCCGGAAAAAGGGGGG G GAGGGGGGAAGGACAAAAAACCCCAAAAAAGGAGAGAAGAA A G G G G G GCCAAAGGGAGGAAAACCCGAGGGGAAGGGGAACCG GAGAAAAGGAAAAGGAGAAAAAAGGAGAAAGAACCGBAGGGC CACAAACGCCCAAGGAAAAGGAAGGAAAAAAGAGGGBAAGGG GGGCCAAGAGGCAAGAGAACCCCAGGGAACCGGAAGGGGGAA AACGAACAAGGAAGAAAAGAGGAAGAGGAAGAAA GATCAGAG GAGAGGAAGCCGAGGGGCCGGAAGGCCAGGGGGGAAGAAAAG G G G G G G G A A G G G G G G G G A A A GACGGCCAAGGGGGGAAGAAAA AA $A G G G G A A G A G G G G A G A A A A G A G A A A A G A A G G G A A G G A A A A$ AAAAAGGAAAAAGGGGGAAAGAAAAAACCAGGAGAGGAGGGG GAAGACCGGAGGGAAGGAAAGAGACAAGAAAGGGGAAAAGAA G G GCCGGAAGGAAACCGAGAAGGAAAGGGAGGCAAGAAAA GA G GAGGGGAAAAAAAGGGCCGAGGAGGGGGACAAGGAAAAAAC CAAGAAACAACGAAAAGGGGGCCAAGGAAGGGGGGCCAAAAA GAAAAGAAGAGAAGGGAAAGGGGAACAGAGGAAAGAAGAAGA GCCAAGGAGAAAGAGAGAAGGAAAGGGGGAGGGGAGACAGAA GAAACAGAAAGAGGGGGCAGGACAGGGCAAAAAAAGGAAGAAA
 A G G G G G G C A A T A G A A C C G G A C A A A A A G G G G G A A G G A G G G A G G $G G A A G G G A A A G G G G G A A A G G A A G G A A A G G A G G A C A A A A G A G A$ ACAGGGCGGGGGAGGAAAAAAAGAGAGACCAAAAGGGGAACB AAAGGAAGGCCAAGGGAGAGGGAAGGGGAAGGGAGGAGGGGA
 G G G G GCCAAGGGGAAGGAAAAAAGGGGGAGGCACCGGAAAAAA G G G GCAGGGGGAAGAGAAGAAACGAGGGGAAAAAGATGGTTA
 $A C C G G G G A A A C G G G G G A G G G G A G A G A G A G A A G G A A A A A A A G G$ GAA $A$ A $\operatorname{A} A A G G A A G A G A A A G A G G G A A A A A A C A A A G G T T A A A C A$ AACAGAAGGAGGAAAAAAACCAGGGGGACGAGGAGAGAGAAG GAGCCCACCCCAAGAAGGGGGCCCCACAAGGCGAACAAACAA A G G G G A A C C G G A G G A G A A A G GCCACAGAACAGAAA G GAACCC CAAAAAAAAGGCCGGGGAAAAAAAGGGGGGGGGAAAAAAAAC CAAAAAAGGAAGGCCGGCCTAGGACAAAAGGGGAAAGAGGAG G G GCCAA C C G G G G G A A A A G G A A A A G GA G A A A G A A G A A A C A G G G GCAGGAAAAAGGGCCCCAAACAAAAAAGAAGAGGAACBGAGG GAGGGAGAGACCAAGGGGGGGAGAAGAAGGAGAAAAAGAGAG GAGAGCAGGACAAAGGAAAGGGAAAGGACCCAAAGACAGGGC AGGCCAGAACAAAGGAAAGCAGGAGAAAACCAAAAGGGGCCA AAAGGGGCCGACCCCCCGAAAAAAAAACCGGAAAACCAAGEC CA $A$ A $\operatorname{G} A A A G T T A G G G G G G G A G G A G G G A A G G A A A G G A A C A G A G$ A GAGAACACCCGAGGGGGGGGGGCCAAAACCAAGGAAAAGEG G G G A A A A G G G G A A G G G G G GAAAAAAAGGAAACAAAACCGAAAA A A A G G G G G G G G G G A A G G A A A A C C A A G GAAAA A C CAAAA G G G G G $G C C C C C C A A A A G G G G G G G G C C A A G G G G A A C C A A A A A A G G A A G$
 G G G A G A G A A A A G G A A G G A A G G G G G G G G C C G G C A A G G G G G A G G GAAGGGGAAAGGGGGGAAAGGGAAGACCCAGGAGGAAAAGGA
 GAAGGAAGGCAAGGGAAGGCCGGAAAGAAAAAACCGGAAAAG GAATTAGGAAGCCGGGGAAAAGACCGGGAAGGGAAAAAACCG GAGAAAACCAAAACCAAGGGGAACCAAAAGGAAGGAAGGGGA
 G G GCCGGGGGAGAGGAAGGCACCAAAAGGAACCAAGGAAGGC CACAACCGGAAAAAAGGAACCGAAAGGATCCAACCCCAAAGG

GAGACCCGGGAAAGGCCGGCAAAGGGAGGGGGGGAAGGAGGA
 A G G G G GAAAC A A A A GAG G G GAAAAAAAGACCAAGGACTTGAGA G GAA A G A A A G G G G G G GAGGGGAGGAAAGAAAAGGCCGGGGGGA A A A A A G GAAGGAAAAAAACAGGGAGAGAGAAGAACCCAAGBA $A C C G G A A A G A A A G G A G G G A C A A A C A C A A A G G G G G A A G A A A C G$ G GAGGAGAAGGCCAGGAGGAAAAGGCCGAGGAGACAAGGGGG

 GAACCAAGGAGGGGGGGAAGGAAAAAAAAAGAGGGGGGAGAA G G GAGACCAAACCAAAAGGAAGGAAAAAAAAGGGGGGAAGAA A G G G GCCGAAGGGCCGGACCCAAACAGAAGGAAGGGAGAAGG GAAGGAAAAGGGAAGCCAAGACCGGGGGGAGACAATTGGGAA CAGGGAGAAACAGGAAGAGAAGGCCAGCCAACCCCGGAGCCC $C \subset C A G C C G A A A G G G C G G G A A G G G A G G A A A C A A G G G G A A G A G A$ AA G GAAGGGAA GAAGAAAAAACCGACAAGGAAGAAAAGGGGA GAA A G G G A A G G G G A GAGAGAGGGAAAAGGGGAAAAAGAAGGG GAGAACCGGGGCCCAACAAAGCGTAAAGGAAAAAACGBAAGA GAAGGAAGGACAGAAAAAGGGAGGGAGAACCGAGGAGGAAAA A GGCCCCGGAAAAAAAAAAGGAAAACCGGAAGGGGGGGAAAG G G G A A A A A A G G A A A A A A G GAA G GAAGGGGGGTTCCGGAAAAA AAAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGGAACAGGC C A A A A A A A A A A G G G GAAAAGGAACCAAAACCGGAAG GAAGGT TAAAAAAAAAAGGAACCGGGGGGGGAAAAGGAAAA G GAAAGGG A A G G G G G G GAGACAAGAATAAGAGAGGCCAGGAAGGGCAAGA ACCAAAAAGTTAAAAAGAAGGAAAAAAGGAAAACCAGGGGGG G G G G G G GAAAAAAGGAAAAGGGGAAGGAAGGGGGGGAAAAAA A G G G G C C A A A A A G G A A A G G G G G G A A G G T T G G C G G G A A G G G G G
 GGAAAAGACCAAGCCGAAAAAGGGGAGAACCGGAAAAGAAAA A A A G G G A $\mathcal{A} G A A G A G G G G G A A A A A G G G G G G A A A A G G A G G A A A G$ A A G A A G G G G G G G G G G A GCC G G G G G G G GAAA A CA G GAA
G G GAGGACAGAAGGGAAGGGAGGGGGAGAGAAAAGGGAAAG GAAA $A \subset C G G G G G G A G C C G G G A C A A G G G G G C C A G G A G A G A A G A$ GAAAACAGATTGAAAAAGAGGGGGGGGGAAGACGAAAGAGBA AAGACGAAAAAGAAGCCAAATAGAACCGAAGAAAAGGGAAGG GAAGGAACGAGAAAGACCAGAAAAAAAGGGGGGAGAAAAAAA
 A G GCCAAGGAGAGACGGAAGAACGAAAAGAAAAGAAAAGAAG GAGGGGGACGAAACCGAGAAACCAAAAAACACCAGBAGAAAG G G G A A G A T T G G A GAGGAAGCCAGAAAGAACAAAGGAAAAGGG $G C C A A C G A A A G G G G A G A A A G G A A G G A A G G A A A A G G A A C C G G A$ A G G GAAAAGAACCAACCAGAAGAAAAAAGAAGGGAGAAGGGA A A A G G A A G G G G G G A A A CAAAGCAGGGGAAAAAAA G GA GAAAAA GAAAAAAAGGAAAGGGGAAGGGGGGGGAAAAAGGGAGAAGA$G$
 G G A G G A A A A A G G A G G A A G G G G G G CAAA A GAAA A A A G A G G A A G GC $C$ A A G G G G G GCCAA $\mathcal{A} G A G A A G A A A G G A A C C A A G G G G G G G G G$ A A GAGGACAGAAGGGAAGGAAGGAAGGCCAGAAAGGGGAGGG GAACCGGGGGGCCAGATAAGGCAGGAAAAAAAAGGAAGAAAA A G GAGGACAGCGGAAGGAAGGAAAAGGCCAGAGGGGGGGCCA
 G G G T T A A G G G G G G A G G G C C G G A A G A A A G A A A A A A A G G A G A G A A GAGGCCGGGAGGGAGAGAAAGAGGGACCGGGGGACAAAGAA
 A A G A A A C G GAGGAGGAAGGTAAAGGAAAGGACCGGGAAAAAG GA $A \operatorname{GG} A A A A A G G G A G G G A A A G G G G A G G G G G A A A G A C A A G A G A G$ A G G G A GA G C G GCCCC G A G G GAA A GAGGAAAAAAA G G A A A GA G G GAAGGGGGGGGGGGAGAAAGGAGGGCCAGGGAAAAAAAACCA

A GAAAGGACACGGAAAGTTAACCGGCAGGGGGGAAAAGGCCA A G GCCGGAAAAGGGGCCAAAGGAAGGGAGAAGAGAAAAGAGA AAAAAGGCCAAAAGGAAAGGAGGGGAGAACCAGAGAAAGGAG GAGTAGAGAGGGGGGAAGGGGCCAAGAAAAAGAGGACAAAAA TGCGGAACCCCACGGGGGGAAGGAAGGGGAAAAAGAGGGCCC
 $G C C C C G G A A A A G G G G A A A A G G A A A A G G A A G G G G A A G G G A A A A$ AGGGGAACCGGGGAAAAAACCGGAAAAAAAACCAAGGCAAGAG A A A C C G G G A G A A A A G G G G G G G G G A A G G A A A G G G G A G A A A G G A AAAAAGGGAACCCAGCCGGTTAAGGGAGAGACCAGAAAAGCA AAAGGCCAAAGCCGGGGAAAGGAAGAGAAGAGAAGAGAGGGG GAAAAGGAGCCAAAAGGCCGAGGAAAAAAGGGGAAGGTXAAC CAA $A \operatorname{GG} A \operatorname{A} G C C T T A C A G A C A A G G G G G G G G G G A A A A G G G G G G A$ A G G A A A A $\mathcal{A} G G G C C G G A A A A A A G G G G G G G G A A A A A A G G G A A A G$ GCCGGAAAAAAGGCCAAAAAAGGGGAAAAAACCAAAAAAAAC CAAAAAAAACCAACAGGAGAAAACCCCAAGGAAAGGAGGAGA G G G G GCCAGAAGGAGAAGAGGAAAGAGAAAACCAAGAAAGAC AAAGGAGCAAAAGAGAACCGGGGGGCCAAAGGAGAAAGGCCG GCCGGGGGGCCGGAAAGGAACGGCAGGAAAAACCCAAGGCCA A A A A A A A A A G GCGAAAAGAAGGACCAGGGGGGAAAG GAGAAC A G G G GAAGGGGACCCAAGGAACAAAAAAAAAAAAACCGGGGG GAAGGGGAAAAGGCCGAGGGGTAACAGCCAAAAAAGGGGGAG GAAGGGGAAAAGGGGGGCGGAAACAAATTGCGAGAACGAGGA A G G A C A A A A G A G G G A G G A G G G G G G G C C G G G GAA A GAACAAA A A A GAC GA GACAGGAAAACAAAGAAAGGGGGAGGAATTGGGGAA $A C C A A T T G G A A A A G G A A G G G G A A G A G G A G G A G G A A G G G G A G A$ G GAA A A A A G GAAACCGGGGAAAAGGAAGAGGAAAGAACAAGA CAAGAGAGGCAAAGGGAAAGGGAGAGGGGCCAAGGGGCAAAA A A A A A G G G G G G G G G GCCAAAAAAAAACCGGAAGGAAAAGAAAG GAAAAGGGGAAGGGGAAGGAAGGAACCAAAAAAGGAAGACCA

 GAGCGCCGGGCGCACAAACAGACGGCGGGAGAACCCCAAGAA ACCAAAAGGAACCGGGGAACCGGGGAGGGAGAAGGAAAAAAA A GACCAGGAAACAAAAAAAAAAAGAGGGGACGGGGACCCCCG A A G A G G A T A G G G G A G G G G A A A A G A G C A G G A T C C G G G G C C G G G A G G GAAAAGGGAAGGAAGGAGAAAGGAGAAAGGAAGGAGGGA
 G G G A A A A A A A G A A C C G A G G G G G G G G G GCC G A GACC G G G A G A A G GAGAAAGAAAAAAAGAGAAGAACCCCAAGGAAGAAGGACAA A G G A A A G A A A G G G G A A A A GAAAACCCCCCGGAAAGCCGAAAG GAAGGGGAAAAGAAAAAAAGGAGGGGGCAAAAGGGAGBAGAG G G GAGGAGGGGAAACCAAGAAGAACGGAAGGGAGGGAAAAGG GAGGGAGACTTGGGGAGAAAGAAAAGGCCGACCGGAGGAAAG A A A A A G G A GAA $A \operatorname{G} \operatorname{A} A A A A G G A A A A A A A G C C G A A A A A A A G G G A A$ C GAGGAGCCAAGGGGAGAAAACCAGACAGGGGGGAAAAAAAC CACAGGGAGAGAAAGGGGAGGGAGACGACACAGGGGCAGCAG A GAGCAACCGGAAAAGAAGAGAAGACAGAGAAGCCGAAAAAA GAGGAAGAAGAGGAGGGAGAAAAGGAGGGGGCCAAGAACGAG
 AAAGGGGAAAAAAAAGGAACCGGGGAAGGGGAAAAAAABAAG $G G G C C A A A A G G C C A G A G G A G A A G G G A A G A G G A A A A C C A A A G A$ G A A A C G G A G A G G A A A G G A G A A A A A A A A A A A A A A A G A A C A A G A AAAAGGAAGACGAGACCAGAATAGGACAGAAGGCCAAGAGAA
 C G A A A A C A A G A A A A CAA $A \operatorname{GGG} \operatorname{GAAAACAAGGAAGCCCCGGGGG}$ G G G A A G G A A A G G GAA $A \operatorname{GAAACCGGAAAGATGAGGCCGGGAAAC}$ CAAGAAAGGAAAAGGAAGGAGAAGAGACCAAAACCGBCACCC CAACCGGGAACGGTTTTGGATCCAGAAGGTAACCAAAAGCCC

CAGCCGAAAAGAAAAAGACAAGAAAAGAGCCCAAAGGAAAGA
 GAAGAAGACACCAAGGAGGAAGGGACCAAGAAGGAACAGAGG A A A G G GAAGGGAAAGGAAAAAAAGAAGAGAAGAGAGAAAAGA GAGGGAAAAGGGGGACACCACGGAAGAACGACCCCGAAAGGA G G G G G G C G G G G A G C A A GAACCCCAGGGAACCGGCAGACAGAA A A A A G A A A A A G G G G G G GAA $A \operatorname{GGGAAGCAAAGGAAGGAAAAAAG}$ $G C C G G C C G G A A C C A G A A A A G G C A G G G G G G A C A A G A G A A C A A G$
 GAGGAATGGAGCAGGAGAAGAGGGGGGCCAAACAAGAAAAAA ACAGGAAAAATAGCCAAACAGAAGAGAAAGGGGAAAGGAAAA GAAGAGGAAAGCAAAGACCAGTAAGAAGGGGGGGGGGGGGGA A A G G G A A A A A G GA $A \operatorname{GGGGGAGGGAAAGGGAAAAGGGGAAAAAA}$ A G GAACCAAACGAGGAAAGGAGGGGGAGGGAAGGGAGAACGG $G T T G A A G C A G G A A G G A A A G G G A G A A G A C A G G G G G A G C G G A G G$ GAAAAAACCCCAGAAGGGGAAGAAGAGGGAGGACCGGGAAAA
 G G GCCCCAGGGGAGAACGGCCGAAAAGCCGGGAGGAAGGGGG GAAAAGGAAAAGGGGGGGGAACCGGGGAAGGAAGGAAAAGGG G G G A A A A A A G G G G G GAAAAAAAAAAAGGGGGGAAAAAAAAGGG G G G G GCCAAAAGGGGAAGAGGCAGGGGGAACGGGAGGCAAAG G G GAAAAAAAAACGGAAGGGGAGGGCCGGAAACGGAAAAAAG $A G G A G A G G A G G G G G A G G G G A G A A A A G G G A G G G G G G A A G G G G C$
 G G GAA $\operatorname{A} G C C G G G A C C G A C C C C A A A A A G A A G G A A G G A G A C A G A$ A A A A A A A G GAAAGGGCAAAGGAAGGGGAGGGAAAGAAAGAAA GAAAAACGGAAACGGAAGGGAAACACCGGAGAGCAAGAGGGG GGGAGCCCAAAGAAAAAAAGGAAGGAAAGAAAGAGCCGAAAA A G A A A GAAAAAAAAGGAGGAAAAAAGGCCAAGGAAAACAAAG G G G G GCCAAGGGGGGCAAAAACAAAGGGGGGAAGGAAGGGGA A $G G G G A A A A A G G G G A A A A G G G G G G A A G G A A G G G G G G A A A A A A A$ A G GAAGGGGAAGGAAGGGGCCAAGGAACCCCCCGGAA
G GCCGGGGAAAAGGAAAAAAAAAAGGCCGGGGAAGGAAAAC CAAAACCGGCCGGAAAAGGAAAAGGAAAAAACCGGAACCGGG G G GAA A GCCAAAAAAGGGGGGGGAAAACCGGAAGGAAAGAAA A G GAAAACCGGGGAAAACCAAAAGGAAAACCGGGGAAGGCCT TCCAAAAAAGGGGGGGGCCAAAAAAAAGGCCGGCCAAGGAAC C G GAA $\operatorname{G}$ GAAAACCAAAAAAAAAAAACCGGAAAAGGAAGAAAA
 G G G G G GAAACAAGGACCCCCCGGAAGGAAGGAAAAAAGGGGA A A A A A A A A A GGGGTTAAGGAAAAGGAAAAAAAAGGGGGAAAG $G C C A A A A A A T T G G C C G G C C G A A G G A A A A A A G G G G G G G A A A A$ AGGGGGGAAAAGGGGGGAAGGCCAAAAAAAAGGAAGAAACAA AAAAAGGGGGGAAGGAAAAGGAAAAGGGGGGGGAAAAAAAAG GGGAACCCCAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAA
 A G GAAAAAATTAAAAAGGGAAGGGAAGGGAAGGGGGGCAAAA GAAAAGGGGGGGAGGAAGCCCAAGACAAAAGAGAAGCGAGAA G GACCGAAGAAAGGAGGGAAGAGAGAAAAAAGAACGAAAAGAA GAAGGGGAAAAGGGGAGGGACAAGGAGGGCACAAGAAGEGAG C G G G G A G A A G G A A G A G G G G A A G G A A G G C C A A A G A A A A G GAA A AAAAAAAAAGGAAGGCCCCAAAAGGGGAAAAAAAAGGCCGGA A G G A A C C C C A A A A G G G G G G A A A A G G G G A A G G T T G G A A G G A A G G G G G G G GAAAAAAGGAAGGCCCCGGAAGGGGGGAAAAAAAAC CAAAAAAGGGGAAGGAAAAGGGGGGGGGGGGAAAAGAAAAAA A A A G G G G G GCCGGGGGGAAGGGGAAAAGGAAGAAAGGGGGGG GGGCCAAGGAAAACCAAGGAAAAGGGGAAAAAAAAGGGGCCA AAACCGGAAAAAAAAAAAAAAGGAAGGGGGGCCCCGGGAAAA $A G G G G G G A A G G A A A A G G G G G G G G G G A A A A C C C C A A G A A A A A A$

A G GAA $A \operatorname{GAAAACCCCGGAAAAAAGGAAGGGGCCGGAAGGGGG}$ GAAGGAACCAAAAGGAAAAAAAAGGAAAAAAGGCCGGCCACA A G GAACCGGAAGGGGAAAAAAGGGGACCCAAAAGGGGGATAC CAACCGGCCAGAGAGGGAAAAGGCCGAAAAAGGACAAC G GAA $C \subset C G G G G A C G A G G A G G G A G A G C C G G G G G G A A A A G G A A G A A A G$ GAAA A $A \operatorname{A} A A G G A G A C A A G G G G G G G G G G G G A A A A A A C C G G T T A$ A G G G G A A A A A A G G G GCCGGGGACAGGGAGCAAGCAAGACAAA G G GAAGGCCAGGAGGAAGGGGAAGGCACCAGAAAAGGCAGAA G A C G G A A $\mathcal{A} G G G A A G G G G G G G G G G G G A A G G A A G G G G G B A A C A C$ $C A G G G A A G A G G G G C C A A A G A A C C G G G G A A A A A G A A A G A G G G A$ $A C C A G A A G G A G G G G A G G A G G G A A G G A G G G A A G G C C G G G A A G G$ GCCAGAGGAGGGGGGGGACAGAAAAGGAGACAGAGAAGAAAA A A A A A A A $\operatorname{A} A A G G G G G G G G G G G A A G G G G A A G G G G A A A A A A A A A$ A G G G GAGCCCCCCGGGGCCGGGGGGAAGGGGGGGGGAAA$G G A$ GAAACAACACCGGGGAAGGAGAAGGAAGGGGGGGGAAGAGAG G G G GAA A ACAAAAGAGATAGGAGAAAAAAGGAGGGGAAAAAA
 C G G G A A G A A G A G G G G G G A G A A G C A G A G G G G G A G A G G G G G G G G $A G A G G A G A A G A A A G G G G G G A G A G G G G G A A G G G G G G C A G A G G A$
 C C C G G G G G G A A G G C C G G C C A A A A A A G G A A T T G G G G G G G G G G G GAAGGGGGGCCGGGGCCAAAAGGGGGGCCAAAAGGGGAAGAA AAAAAGGCCGGAAGGCCGGAAAAGGGGAAGGGGGGGGAAAAA A G G A A G GCCGGGGGGGGAAAAAAAACCGGGGAAAAGGAAGAA A G G A A A A A A G GCCAAAAGGAGCCGGGGGAAAGAGAACAAGAG A GAGGACAGCCAAGGAAAACCGGAGAGGAGGAAAAGGAGGAG GCCAAAACCAAAGAGAAAAGGGGAAGGAAAAAAAAGGCCCCC $C G A C C A A G G C A A G G A G A G A G G G G G G C C A C C C G A A G A A A G G A A$ G GAGGGGAAAGCAAAGGGGGGACGAAGGAAGCCGBAACCGGG GAGGAGGGGGGGGGGCCGGGGGGGACCCAGGAAGGAGGGCCG G G G A A C A A G G G G G A G G G G G A A G G A G A A A G C C G G A A A G A C G G A $G C C A A A A A C G A A G G A A A A A A C A G A G G G G G A A A A C C G B A A G G A$ GAGAAAGAAAGAAAGCCAAGGAGGGAGGAAAGAAGGCAAGGG G G G G A G A G A A G G G G A G G A A G G A A T T G G G G C C A A G GAG G GAA $\mathcal{A}$ G G A A A A A A G A A A A A A A A A A A A A GCCGGAGGAGA GAAAA G G G G GAAAGAATAAAAAAAAGGGAAGGAGGGAAGGGAAGGBAAAAA AAAGGAGGGAAAAACCAAAGGCAGGGAAGGAGGACAAGAAAG
 A A GA $\operatorname{A} A C G G G G A G G A G A A A A A A A G G G G G A G A G G C A A A A G G G G$
 G G G G G A A A A A A G G G G G G G G G GCCCCC CAAGGGGGGGAAACAA A A A G G G G A A A A A A A A A A G G A A A A A A A A A A A A A A G G A A A A G G A AAAGGAAGGAAGGAAAAGGAAAACCAAAAAAAA G GAAAGGGGC CAAAAAAAAGGAAAAAAGGGGGGAAAAGGAAAAAAGAAAGAA A G G A A A A A A $G G G G G G G G A A A A A A G G G G G G G G A A A A A A C A A A A$ A A A G G A A $\mathcal{A} G G G C C G G G G A A G G G G A A A A G G G G A A C C G G A A C X G$ G G G A A A A G GAAGGGGAAGGGGAAAAAACCAAAAAAAAGGGGG GAAGGCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAGGA A G GAA A G G GAA $A \operatorname{Ag} \operatorname{G} \operatorname{GAA} A A A G G A A A A G G G G A A G G A A G G G A A A G$ GAAGAGGAAAGAGCCAGGAGGGGAAAAGAAAAGAGGGAACAC A GAGAACAGGACCGGCCGGCCAGGAAGCAGAGAGAAAGAAGG AACAAAGAGAAGACAACGGAGCCAGAAAAAAGGACGAAAAGA GCAGGGGGAACAGGGGGGGGGAACCAGAGGGGACCCCCGGGA GAAACGGAGAAAAAAAAAAGGACGAGACAGGAAGGGGGAAAA G GAA A A GAAAGAGGGAAAGAGAGGGAAAGCCCAGGGAGAAAC CAAGGAAGGAAAGAGGAGGCAAAAAGGGGAAAAAAAACAAAA A A A A A A A $\mathcal{A} G G G T T G G G G A A G G A A A A A A G G A G A A A G C A G A C C C$ CAACAGGGGGGAACAGAGGAGGGGACAGAGACAGAGACAAGA AAAAGGAAGGGGGAAAGGAAGAAACGGGGGGAGAAGGAAGAG

GAAAAGGGGGGGGGGGGAAAAAAAAAAAAAAGGAAAAGGGGA A G G A A G G A C A G A A A A G GCC G GAGAAAGGGGACAAACCGGGGA A GAGA $A \operatorname{A} A G G A G G G A G G A A A G T A G G G G A A G G A A G G G G G A A G A$ G GAAAAAAAGGAAAACCGAAGAGGGAAAGGAACAACAAAGGG G G G G GA GCAAGAGCCAAAGGGGAGGAAGAGGGGGAGAACAAA GAAACGGGGGGGGCCGGCAAAAAGGAAAACCGGAACCCAAGG $A A C C A A G G G A G G G A A A G A T A G A A G G A G A G G A G A A G G A G A G G G$ G G GAGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAAAGG GAGGAGAGGGGGGAAGGAAAAGGGGAAGGGAAGAAGAGAAGG G GACCACACGAACAGAGAAAAAGAGCCCATTAAAGAAAG GAA GCA $\operatorname{C} A \mathrm{~A} A A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A C A G A A A G G G G A G G G G A G A G G G G G A G A$ C GAAAGGCCAAGGAAAAGGAAAAAAGGAAACGAGGAAAAGGA AAAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAGG $G G G A A A A A G A A G G G G G A G G A A A C G G A A G A G G A A A C G G G A G G C$ CAAGGGGGACCCCGGGGGGAAAAGGGGAGTTAGGACAAGGAA A G G G GCCCCGGGGAAGGAAAAGACAGGCCAAAGGGAAGGGGG G G GAGCCGCGGACGGACAGAAAAAAAGGAAGGAGAGGCAAGG GAAGGAAAGAAGAGGAAAAGAAGAGGGAAGGAAGGAAAAACA AAAAAAACCAGAGGGAGGGAGTAAGACAGAAGGAAGGGGGGA A A A G G A A G G G G G G A A A A A G A G G G A A A A G GAA $A \operatorname{ACC} C A A G G G G G$ GAAAAGGGGGGCAGGGACAAAAAGGGAAGGCGCGAGAAAAAA G G GCAGAAGAAGAAAAAGGGGAAAGAAAAAAAGAGGGGAAGG GAAAAGGAAGGGGAAGAGGAGAAAAGGAGGGGGGGCCAAAAA G G G G A G G G G A A G G A A G G G G A A G G A GAGAGACAC GAAAAA A A A
 GAGGGAACCACAGAGGGAGGAGAGGAAGGGAGGAAAGAAGAA GACGGAAGGAGAGAACAGGGGCCCAGAGGCCCCAACAAAACAA A G GAA A G G A A A GAGAAAGGCGAGCAGAGAAAGGAAAAGAGAC A GACCACAGCCGAGACACACAAAGGCCGGAAAAAAAAAAAAA A G G G GAACAGAGGGGAGGGAACAGGGAGAACGAAGAAGGCCA A G G G A G G A A A G G G A A CAGGGGAACCAAAAATCAAGGGA GAAA A G G G GCCGGGGAAAGAAGGCCAGGGCAGGAGAAAAAA
CAAAAAGGAAGGCCCAAGGAACGAAGAAGGAAAAGGGGGGG G G GCCGGACAAACAGGGCCCCACAAAAGGGAAGAGAACAAAA G G A A A G G A G A A G G G G G G G G C C G G T T G G A G A A G G G G G G G G A C A GAGAGAAGGGAGAAAGGGGCCAAAACCAGCAGGGGGGAAAAA A G G G G G GA $\operatorname{ATT} T \mathrm{~T} G \mathrm{G} G A A A A A A G G G G A G G G G G G G G G G A A A A A A A$ GAGAGCCGGAGGAAAGAGGATGGAGGGCCAGCCGGAAAGGAA GAAGACCGACAAAAAAAAAAGAGAGAAGGGGGGGAAGGAGAG A A A A A G G G G C A A G A G G G A G A G G G A GA G G A A A G A A G A C G G G G A A G GAA A A A A G G G G A GAGAAGGGGAGACGGGGAAGAAAAAGAA A GAGAAAACAGGGGAGGAGAAAAGGCCAAAAAACCAAGAGAG G G G GACCGGAGCAGGGGAGAAAAGGGAAAGGAAAAGGGGAGG GAAAATTGAAGGAAAAATTGGGGAGGGGGGGGACAGAGAGAG GATCCGGAAGAAGGACCGGAACCGGGGGACAAAGGGGGACCA GCAGGGAAGAAGGAAAAAAAAAGCCGGAAGGAAAAAAGAACA G GACCCCGGAAAAAAGAGGAAAGGAGGAGGAGAAAGAAGATG GAAGGCCAAGGGGGGGGCCAGGAGAAAAAAAATAGGGAGAGA A G GACGGCGCCGGGGGGGGAAAAGGGGGGAGAGCCAAGAAAA ACCGGAGAGAAACGGGGAGGGAGAGGGAGAAGAAGGGGAAAT
 AACAAGGAAAGAGAAGGCCAGAAGGGGAACGGGCCBAGGCCG GCCCCGGGGGGGAAGAGAAAACCGAGGGAAGAGGGAAGGCCA GAAAACAGGGGAGCAAAACAACCTACCGAGAGAAAAGCAAAG GAACGAGGGGGAAAAAACCGGGGAAAAAAACAAGAAGAAAAA CAGGGAAGGGGGGACGGCCCCAAAAACGGAAAGACAAAAGGG GAAGGGGGGAAAAAAAACCAAAGTTAAGGGGAAAAAAGAACA A G G A A G A A G G GCCAACAGGGCCCAAAGGAAGGAGGGAACACAA CAGAAGGGGAGGGAGGAGGGAAAAAAGAGGGAGAGGGGAGGG

A GAGGAAAAAAGGGGGAAGAGAACAAGGGAGAGAAACAGET A A A A G A A CCGGGGAGAAAGGAGGCAAAAGAAAAAAAAAAAAC A A A A A A A A ATTCAAAGGAAGACAGAAGGAGGGGAAAAAAGGG G G GAA A G G GAAAAGGGGGGAAAAAACCAAGGAAAAAAAAGAA A G G G G A A G GCCAAAAGGGGCCGGAAAAAACCGGGGGGGGCCC CAAAAGGGGGGCCAAGGAAGGAAAAAAAAGGCCGGAAGGGGA A A A A A G GCCAA G GAAAAAAAACCCCGGGGGGCCAAGGGGCCG GAAGGAAGGAAGGAAAAGGCCGGAAAAAAAAGGGGGGGGGGA $A C C G G G G A A C C G G G G A A A A G G A A A A G G A A G A A C G A C C A A G G G$ G G G G GAGCCGGGGGGGGCCGGGGAAGAGAAGGAGAAGAACCG GAATTCCGGAAGGGGAAAAGAGGACGGGGGAGAAGAACAAGG A A G G G A C A A G G G GAGGGGAAAGAAAAAAACCCCAAGAAGAAA A G G G G G G A A C C GAGAAAAAAGAAGAGGAAAGACCAGAAAGGG GAAAAAAGAGGCAAGAAAACCGGAGGGGGAGAGGGAAAAAAG G G G A G A A C C A G G G G G G A G G G G G G A A G G G G A A A A C C A A G G A G G A GAAAAAACGGCAGGAGGGCCGGAAGAGAGGGAGGGAAGGGG A A A G A G G A A A C A G A GAGGAGAGGGGGGCCAAGGGAAAAAGGG
 AGGCAACGGGGACAGGAGAAAAAGAGAAACCAAACGGCAAAG G G G A A G A G G G A G G G G G G C C G G A A A A C C G G G A G A A A A A G G A A G AAAGACCAAGGATGGAGGAAAGCAGGGGGGGAAAAGAAAAAA
 A A A A G G A A GAAAAAGCCGGGGGGCCAAGGAAGGCCAAGGGGC C G G G G A A G G A G GA $\operatorname{A} A \mathrm{~A}$ GAGAAAGGGGACAAGAAGGACCGGGGA ACAGGAGAGGGAAGAGGGGGGAAGGAACCCCAAAAAAAAAGBG GACGGGAAGCAGGAGACGGGCAGAGAGAAGAGAGGGGAGA$G A$ G G GAA $A \operatorname{GA} A A A A G A G A G G G A C A C A G G G A A G G G A C C A A G A G A A$ ACAGGCCGGTTAACCAGAAAACCCCAACCGGAAGGAACCGGA G G G A G G A G A A G G GC C G G A G GAGAAGGGAAAAGGACAGAGAAA GAAAACAAGGGGAGGGGGGAAAAAAGGAAAAGGGGAAGACCB A A G A G C A G A G G G A A A A A A G A A A A G A C A G G G A G G A G G G G G G G A GAAAGAGAAAAGGAGGAGAAAGGAAAAGAGGAAAGGGGGGGG GAAGACAGGAAGGAAGGCCGCAAAAAAGGCCGAAAAAGAGGC C GAAAGAAAAAGAGGACGGAGACGGAAGAGAGGACAAGAAAC C A G G G G G C A G G A A G G G G G G G A A G C C A C G A G G G G G G G G A A G G A G G G A A G G A A A A CC G A A A G A C C A A A A A A G G G GAGCAAACAAAA C GAAAA A A GAAAAGAAGGAGGTTGGCCGGAGAGGGCAAAGGG GAAGGGAGAGGAACCCCGGGGGGACGCACGGAAAAGAAAGAA G A A A A A G A $\mathcal{A} G G G G G A G G G G A A A G G G G A A A A A A G C A G A A G G A A$
 GAAGGAAGAGAAGGGGGGGGGGGAGCCAAAAAAGGGGCAAAC C G G A A C C A A A A G G G GAA $A \operatorname{GGGGGGAAAACCCCAACCGGGAAAG}$ GAAAAAAAAAACCAAGGAAGGAAAAGGGGAACCGGGGGGGAA A G GAA A GCCGGCCAAGGAAGGGGGGGGAAGGGGAAGGGAAAC CAAGGGGAAAACCAAGGGGAAAACCAAAAAAAAAAAAGAAAA A A A A A A ACCAACCGGAAAAGGGGAAGGAAGGAAGGAACAAAA A G G G G G GAAAAAACCAAAACCAAAAAAGGAAAAGAAGAAGGG G GAGGAAAGAGACGGAAGGAGGGGGAGGGGGGGGGCAGAAAG A GAAACCGGGCAGAAGGCAGGGGCCAGATAAAAAAGGCAGAG G GAA A A GCCAACGGGCCGGGGAAAGGAAGGGGGGGAAAAA GAC CAAAAACAGCCAAGGACAAGGAAGGAAAAAGAACCAGGAGAG GAGAGAGCAGGAAACCCGGGGCCAAGGGGGGGGCCGAAAGGA A G G A A A A G G A A A A G G A G A A A A A G G G G G A A A C G G A G A A A A A A A AAAAAAAGAAAGGAACCAGAGGGAGCCCCAGGAGAAAAGAAA AAAGGAGGAAAGGAAAGGGAAAAAAGAGGAAGGGGCAAAAAAA A GAGGGGGCAACCAACACGAAGGAAGGGGGGAAGGAGGGGGA A A A G G G G C A G G A G G G A A A A G A A A G G G G G G A A C C A A T T G A G G C
 GAAAACAAAACCCAAAAAAAGGGCCAGAAGGCCCCCCCCGGA

AAAAAGGAAACAGGAAGGGGGAAAAGGAAGGAACCAGGAAGG A A A A A A A GAGGGGAACAAAGACCCCAGGAGAGGACAGAAAAC C GAGAATAAAAACAGAGGAAAGGAAGGAAGGCCGGGGAATAC AAAGGGGGGCAGGGGGACCGGAACCAAGAGGGAAAAAGGAGG G G G G GAGAAAAAAGGCCAGAGACCCGGAAGGAAGAAAAGGAA

 AAGGGCAGGAAAAAACCGGAAGGAGGAAAAGATGGGGGAAAAA A GACAGGGAAGAAGGGGAGACAAGGGGGGCCCCCAGGAAGAG A GAAATACCGAAACCAGGAGGAGGGAAAGCCAGGGGGAACAG GAACCCCCCGGGAAAAAAAGGAAAAAAGGAAGGGGAGAAAAG GCGCCGGCCAACCGGAAGGGAGGAAAAGAAGCAAAAACAGGA C G G G G G G G A GAGGAGCAAGGGAAAAAAAGAAAGAGGAAAA GA
 $A C C A A A G A G T A C A G G A G A G C C G G A A G A A G A C G G C C G G G G A G A$ GAAGGGGAGCACCGGGGAGAAAAAGAGGAGAGAGATTAACAG GAA $A \operatorname{GAA} A G G A G G A C G G G G G G A G A G A A G A G A G G A A A A G A C A A$ $A C C A A A G A G G G A G G G G A G G A G G G C C A A C A A A C C G G G G A C A G A$ AGGGGCCGGAAAAAGAAAGCCGGAAGGAAACGGAAAACAAAA A G G A A A A A A A A A C G G A A A A A A A A A A G G G A A A G A A G G G G G A A A AACGGCAAAGGAACAGGCGAAGGAGAAAAGAGGGAAAGGGGA A A A A A A A G G G G G G G G G G A A A A G G G G G G G G A A G G G G A A A A A A A
 A G G A A G G A A C C A A A A $\mathcal{A} G A A G G G G G G G G G G A A A A A A A A G G T T G$ GAAGGAAAGAGACAGAGAGACGGGAGAGGAAAAGGGAAGAGG G GAAAAACCAAGGGGGGGGAAAACCAAGAGGAAAGAAAGAAA G GAAGAGAAGAAGCCGGGAGGGGCCCCGAAAGACCGGCAGGA A A G G A A G A A GAGGAAAAAAAGAGAGGGACGGGGGGAGAAGAA G G GA G A A A A C C GAA GACGGAAAACCAAGACCAGAAGAGGGGA $A C \subset A G G G G G G G G G A C G G A G G G G G A A A A A A G A A G A G G G C A C A G$ A A G G G A A T T G G A A G A A A A A A G G G C C A A A A A A G A A A G G A G A G G G GAAAAAAGGGGGAGAAAAGGAAGGAAAAAAGGGGAA
AGCCAAAAGGAAGGCCAAAAAAGGAAGGAAGAACACAACCG A GCAACCAAGGGGGAAAAACCGGGGAGAAAAAAAAGGGGAGC A A A G A G G A A A A C C G G G GAACCAAGGAACAGGAAGAGACAGAA $G C C G A G G A A G G C C G A G C C A A G A A A G G A G A G A A A A A G G A A A A G$ AA GAAGAGACAGAAAAAGGGGAAAAGGGGACAAGGGAAAGAG A GAGAAACAGGGACCAGGAAAGGCCAGAAACAAAAGGAAGAA A G G G G A A G G G A G G G A A G G A G A A G G A A A A A GAC CA G GA GA GA G
 AAAGGGGGAAGCAGGGGGAGAGGGAAACAAAGGGGAAGACBC
 CAAAGAAAGAGAGGGAAAAAAAAAAGGAAAAAAGGAACAAAG GAAAGAGAGAAAAGGGGGAGGAAAAAAAAAACCAAGAAAGEC C A A A A G A A A A A A G G G G G A A A A G G A A A A G G A G A G G G A A G G G G A A G G G G G G G GAA $A \operatorname{GGAACCCCAGGGAAGAAGAGAAGGGGGGCAA}$ A A G G G G G A A A G A G A G CAC C G G G G G GA GAAAA A C GACA A G A G G G GAAAAAAAAGGAACCGGGGCAGGGAGAAAGGGGAAGGGGGGA AA $A G A A A C C A A C A C A A G G G G G G G A A A A G G G G A A A A G G G A A A G$ A A A G G A A G G G G G G A A G G A A G GAA A GAAAACCAACC G G G GAAAA GCCGGAAAAGGAAAAGGGGAAAAGGAGGGCAGACCTAAAGGG G G G A A G G G G G A G G G G A A A C G A G G G G A G G G G G G G G G A G A A G G G GAGAAAAAGCCAAAAGGGGGGCCAGGGAGAGAAGGAAAAGAC $C A C C C G G A G G G G G G G G G A A G G A A G G G G G G C C A G A G A A A G G A G$ A G G G G G G G G G G G G G A G A G A A GAGAACA $A \operatorname{A} G A A G G G A G A A G A G G$ $A G G G G G G G G G G G G G G A A A A C C C C A A G G A G G G G G C C G A A C G G G$ G G G G A C C C C C A G A G A G G GACA G G A CAA $A$ A A G G G G A A A A G G G G G G C C A A G G A G G G A A C C G G A A A A C C A A G G C C A A A A C C G G G G T T G $G G G A A A G C C G G G G C C C C G G A A G A A A C C A A G G A A A A A C A G G G G$

G G GAAAAGAAGGAAGGAGGAAGAAAAACCGGAAAAGGAAGGG GAAAAGGCCAAAAGGAAAGGGAGAGAAACGGGACCGAAAAAG G G G A A A G A C G A G G G G G G A G A A G G A GAAC C G G G G G G G G G G A A A G G GAACCACGGGGAACCGGGGGGGGAAAAACGACCAGAAAAA A GAGACAACAGCCCCGGAGGAGGGGGGCCAGACAAAACGAGA CAACCAAGAAGGGGACCGGGGAAGAAAGAACAGGAGACAACC A A C G G G G A A A A G G G G A A G G G G C A A G A A G G G A A A A G G G G A G G A $A G G A A A G A G A A G G G G G A A T G G G G G G A A G A A A G G G G G A A A A A G$ G G G A G A A A A A G A A A A G GCC GAGGAACCAACCGGGGGAAAAAG ACAAGGGAAAAGGGGAGGGAAAAAGAGGAGGAACAGAAGAAA GAACAGAAGAGCCAGGGAAAGGGTTAGACAGAACCGAGGGGA GAAA A G A A A G G G G G G A A A G A G G A G G G A A A A GAAAA A G G GAC G
 CAAAGACGGCCAAAACCGAGGCACAGGAGAAGGAGAAGAGGA GCCTTGGAAGGAAGACCAAAAAGGGACAAGGCAGGACAAAAG GAACCGGGGAAAAAAAAGGAAAAGAGAAGGAGGGGGGCAAGAA GAAAAAGAGGAGAGGAAGGGGAACCGAAGGAAAAAAAGGGGA AGGAACCCCCCGGAAAACCGGAAGGAAGGGGAGGGGAAAAAG $A C C A G A G G G A A A A G G A C A G A A C C G G G A G G A A G G C G A G G A G A G$
 G G GAAGGGGAAAAACGAAGGAGGGGGAGGGGAGGGCAAAGGC C C A G G A A A G G GAACAAAGGGAGAGGAGGAGGAAAACCAGAAA A A A A GCAAAAAAAGGCCGGGAAGGGGGAAAAGAGAAGTAAAA
 G G GCAGGCAAGAAGAGAAAAGGGAAGGAAAAGGAGGAGAAAA A A G GAGGGGAGGGCCAAAAAAGGAAGGAGAAAAAAAAGGGGC G G GAAAAAAGGAAAAGGGGAGAGCCAGGGAAGGAAACGGGAA $A C C A G A G A A C C G G G G A G A G G G A A G G A G G G G G G A G A A A A A C A A$ A A GAGAAGGCCGGGAGAGAGGGAGAAGAAGGGGGGGGCAAAA A G G G GAAAAAAGAGGGAGGAGGAAAACGAGAAGAGAAGAAAA A G G G G G G G G A A A C A C G G C C A G C A A G A A G G A A C C G G C C A G G G A GAGGGGGACAGAAAAGGAAAAGGAAAAAGAGGGAAAGAAAAA
 GA $\operatorname{G} G A C A G A C C A A A A A A A G G G A A G G A A G G G G C C A A G G G G G G G$
 G G G A A G G A A A A A GAAAAAGAGGGAATTCCCAGAGAAAGAAGAG G G G GAGGGGGGAGAAAACCCCCCAAAAAAGGAAGGACAACCG A GAAA A GAAGGAGAGCCAAGGGGACGGGGGGGGGGAAGAAGA GAAAACCCCGAAAATAGAAGGAAAAAAGAGGAGGAGABAGAA A A A A GAGGGCAGGAGCCGCGGAACCGGAACCCCAGAAGAAAG GAAGAAGAGACAGGAGGACAGCCAGAAAAGGAAGAAAAAGGC CAAA $A$ A $\operatorname{A} A A A G C C A G A A A A A G C C A A G A G G A G G A A G A A G G A G G$ A GAGGGGACGGGAGGGGGGGGAGAGAAAGCCGAAGGGCCGGG G G G A A A G A G G G C A A GACAGAAAGAGACGGAGGGGGACCCCCC CAAAACCACCCAAAAGAGGAAAAAAAAAAGGGGAGAAGGGGG $G C C G A A A A G C C A A A A G G A A G G A A G G G A G G A A A G C C A A G A G G A$ C TAA A GAGGGGAAGGCCGAAAAAGGAAAAGGAAAAAAGAAGG GAAAAAAAACCGGGGCCAGGAAAAAAAGGGGAGAGAGGGAGA AAAGGAAGGAAGAAAGGAAGGCCGAGGAGGGAAAAAGAAAGG A A GAGAAGACAAGGGGGGAAGAAGGGGAAGAACGACAACAAA AACGGGGAAAAGGAAAAGGGGGGAGGGAAAAAAGGAAAAAAG G G G G G T TAAA A CA G GAAAAAAACCCCGGGGGGGAGAGCACCC C A G A A A A A C G A ACCAA G G G A A A A A A ATACAAAGGGAACA GA A GCAAAAAACGGAGAGCCGGAAAAAACCGGGGAGAGAGGGAGA AAAACGGACAGGAGGGGCCAAGGAAGGCAACGGAACAGAAAG G G GAAGCGGAAGGGGAAGGCCCCAAGGAAAAAAAAGGAAGAA A A A G G G G A A G G G G A A G G A A A A G G A A G G G G A A C C A A A A G G G G A A G G A A A A A A G G G G G G T T G G C C G G G G G G A A G A A A G G G G G G C C A $A G G C A A G A A G A G A A G A G G A C A A G A A G G G G G A G A A G A G A G A G A$

C G G A A A A G GA A GAGGAAGGGGGGGGAAAATTAGGGAACAGAA A G G GAAAAAAAGGAACCAAGAGAGGAAGGGGAAAAACGAAGA C G G G G G G A TAA A A A A G GAAACAACCAAAGCAAAAAGAACAA G A ATAAAGGGAATTAACCGGAAAAAAGGGGGGAGGGGGAAAAG AAAGGGGGGGGAAGAGAAAAGAGGAAACAAGAAAGGAAAAAA AGGCCGGCGCCGGGGAAAAGAAGAACCGGGAAAAGGAAGAAA C G G A A A G A G G A GAA $A \operatorname{GGGA} G A A A A A A G G A G A G G G G G G A G G A A A$ AGAAAGGGGAGCCAGAAGAAGCCAGAACCGGGGAAAAAAGGA G G G A A G G G G A A G G A A A G A A G G G G G G G G G G G A G G A A A C G G A G G GAAAAGGCAAAAAAAAAGGGGAAGGCCAGAAGAACAGAAGAA
 G GAAGACCACACCGGGGAGAGGGGGCCAAAAAAGGAGGAAAA A G G A A A A G G G G A G G G GACCAAAACCAAGGGGAGGGAAAAAAC C G A C A GAACAGCAAAGGGGCCGGAGGAGGGAGAGGAGAAAAB AAGGGGAGCGGGGGGGGGAGGAAGGAAGGACAAGAGGCAAAG GAAGGGAGACCGGAAAAAAGAAAGGAAAAGGAAGGGGAAAAG G G G G GCA $\mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAGAACCCCAAGGAAGGGAAGGAGAA GA G GAACGGAACCAAAACGAAACCCGAGGAAGGGGAGCAAAAAG GAAGGAAAAAGGAGAGGGGAAAGAAGGGAGAAGGAAACAAAC AA GCCAAAAGGGGGAAGGAAAAGGGAGAAAAAGCCAAAACAA $A C C G G C A C C A A G A A G G A G G G A G G A G A G C C A G A G G A G G A G G G C$ C G G A A A C G G G G A GAGAA A G GAAGGAAGGGAAACA GAC GAA GA
 GAAGGAGGGGGACAGAAAAGGGGGAGGAGGAACAGGAAAABA C G G A A G G A A A G A A A A G GAA A A A A A A GAGGCCGA GAAAAAGGG GCAGACAAAGGAGGGGGAGAAAGAGAAAGAAGGCCGAAAAAA GAGAAGGAGAAAAGAGGGAAACCGGCCAGCAAAAAGGCCGGC C A A G G A A A A G G G G G G A A G G A A G G G G G G A G A GA $\mathcal{A} G A A A A G G G G$ GAAAAGGGGGAAGCCAAAGAAAGGGGGAAGAGGAGGGGAAAA GAGGAAAAGAAGGGGGGCCAAGGGAAAACGGAGGGAAAAAAG G G G G G G A A G A G G A G G G G G G A A G G A A A A $\mathcal{A} A A A A G G G G G G G G A A$ CAAAGAGAGGGAAGGGGACAACAGACCAGCCGGAGGG
AAAGAGGAAACCGAAAAAAAGGGAGGGGACGAAAAAGGGGA AAAACAAGGGGAAAGGCAACAAGGGGGGGAAGGGAAAGGAGA A G G A A A GCCGGAAGGAAGGAAAAGGGGGGAAAAGAAGAAAAA
 A A GAA A GAGCCACCCGGGGAAGGGGGAGGCCAGAAGGAAAAG GAAGAACAGAAGAACGAAGAGAGAGAACCGAGGGGAAAAACAA G G G G G G G A A G G A C G G A A $\mathcal{A} G G G G G G G G G A G G A G A A A A A A G G G G$ $A C C G A G A A G G G C C A G A A A G A G A G A C G G A G G G G A A G T T A G G A A$ A GAGGGAGGAGCACCGGAAAGGGGGGGGAAGAAAAGGCAAAA GAAGGCCAAGCAAAAGGGGGGGGAAGGGACCCCGGAAAAAAG
 TAGGGGACCGGGGAAGGAGAGAAAAAGAAGGAAGAGAGGGGG GACAGAAAGCAGGGAGGGGGGGAAAAGGGCCGCAAGGAAGAA G G G C C G G A G G G A G A G A C A GAC G G G G G A A G G GA G G A A A G G A G A AACGGAACAGAGGACGGACGACCGGAGGGAAGGAGGAGAGAG A A G G G G G GACC C G GAAGGAAAGGAGAGGAGGGGAAAGAAAAAA GAGAAAACAAAGAAGAGAGAGGGAAAAAGAGGGGGGGAATAA GAGGGAAAGCAGGCCGAGAAGGGGGAAAAACGGGGAAGAAGA A G G G G A A G GAAAA A A A GAAAGGGGGAGACCGAGGAGGGAAAAA CAGAGGGGGCCAAAGGCAAGGGAAAGGAACCAAGGAGAAGGA A A GCCAAAGGGAGGGAGGGAAAGGGAGGAAGGGAGGAAGAAG AAAAAAAAAAGAAGGAAGGAAAGAGAGAACCAGAGAAAACCG
 GAGAAGGGGAGGGGGAAAAGAGGAAGAAGCCACGGACAAGAG
 G G G G GCC G GAC G GAAAAGGAAGAAGGGAAAAGAGGGCGAATC $C G G G A G G G G A A A A A A A A A A C A G A A A T T A A G A G G A G G G G G G G C$
$C T T C C A G G A A G G G A A A A A A A A G A G A A C G A A A G A C A G G G A A A G$ A G A A A C A A A G GCCA $\mathcal{A} A \operatorname{A} G A C C G G G A G G G G G G A C A A G G A G G G G$ G G G A A G GAA $A \operatorname{GCC} C A G G G G A A G G G A A G A G G G A A A A A A C C A C A$ $A C C C C G G G G G G G G G G A A A A A A C C A G G A G A G G A A C C G G A A G G A$ GAAGGAAGAGGAGGGGAAGAGAGAAGGACAGGAGGGAAAAGA ACAAAGGCCCAAGAAAGAAGGGGGGCAACAAAGGGCCAACCB $A C C A A G A A G A A A A C A C C A A G G G G A G A A A A A A A G A A G G G G A C G$ GAAGGGAAATTAAAAGGGAGGAGCCGCGGAGGAAAAGGAGGA
 G G GAAGGAAAAGGAAAAAAAAAAGGGGGGAAGGAAGGGAAAG $G C C A A A A G G A A C C C C G G G G C C A A G G A A G G A A A A A A C C A G A A G$ G G G G G G G G G G G A A G G G G C C A A A A A A G G A A G G C C C C A A G G G G G G G G G G A A A A A A A A G G C C C C G G G G G G G GAAAAAAAAAA G G $A$ A G G G GAAAAAACCAACCAAGGAAGGGGAAGGAAAAAAAAGAAAAAA A A A A A G GAA A G G G G G G GAACCGGAACCAAGGGGAAGGGAAAG GCCAAGGAACCAAGGAAAACCGGAAAAAAAACCCCGGAAAAAA
 A G G A A A A A A G G G G A A G G G G A A G G A A G G G G G G G G A A G G A A G G G $G G G A A G G A A A A A A G G G G A A G G A A G G C A G A A C A G G G G A A A G G A$ GAAACAAAGAGAAGGAAAGGAGAGGGGCCGGAAGAAAGGGGA A G G GAGGAAGGCCAACCCCGAGAGGGGGGGAAAAAGGGAGGA GAAAAGGAAAGGGGGAAAGAGGGAAGAAGAAGGCCGGGAGAA
 A G G A C G A G A G G A C G A G A A A GA G GAAAA A G A A A A A A G G G A G G G A A G A G G G C G G A G G A G G A A G A G G G G G G G A G A A G G A G A C G G C C G GAGAGAGCCAAGGCCAGAACCGGAAGGGACAAAGGAGAAGAA G G G GAGGAGACGAAAGGGGGGAAAGGGCAAGACAGCCGCGGA G G G A G A G A G G G G G A A A A G G G G A A G G G A A G A A C G G A A G A G G G A A G G G A A A G G A A G A A GAAA G GATTCCCAGAAGGGGBAGGGGGG G GAAAAAGGAACCGAGGGGAAAGAGAAGGAACAGATTACGAA G G G G A A C G A C C T A A G G G A A A G G G C C G A GACCGAA GAC CA A G A GCAGGAAAGGGAAAGGGCCGGGGGGGGAAAAAAAACCGGCCG A G G G G A G A G G A G G G G G G G G G G A A G A A A A A G G C C A A G G C A A A G G G G A A G G A A G G G G G G TACCCCAAAGAGAGAGGGACCCCCACA A G G A A C A G A A A A GCCAAAAAAGGGGATGGAGGAGGAGAACAC CAACCAGAAACAGCACGGGGAGGGGGGAAGGGAGGGGAGGGA GAGCCCCGGGACAAGAGAGGGAACCAAAGAGGAGAAGCCGAG GAGAGCCGGAGAAGAACGACCGACCAGGGGACCAAGGCAAAG

 A G G G G A A A A G G G G G GACAAAAGAAAGAAAGGCCAAGGAAA GAG GAAGGGGGGGGGGAGGAAAGAGAAACAAGGGAAAGAAAAAAC GACGGAAAGGGGGGGAGAAGGAGGGGGGAAGGAGAAAAAAGG A A A A A A G A A A A A A A GAAAAGGACCCAAGGGGACCAAAAAGGC
 A GAACGGGGAACAGGAGCCGAAAGGAAGGCAGGAACCAAGAA GAACCGGAAGGGGAGAGAGAAAAGGGGAACGCCAAAGAGAGC A GA A GAGGAAAGGAGGGGGAGAAACAGAACCAAAAGGTXGAG A GAAGAGGGCCCCGGAAAAAAAGAAAAGAAGGAAGGGGGGAG A GAA $\operatorname{GA} A \mathrm{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{~A} A \mathrm{~A} A G A A A A A A C C A A A A G G C C A A G A A A G G A$ $G C C C A A A G G A G G G G G C C G G A A A A A C A G G G A G A A A C G A A A A C G$ A G G A A A A G GAA A G G ACCAAAAGGGAGAGGGGGAGGGAAAAAA A A G A A G A A G A A A G G A G A A G CAAGGGAGAAAAGGCAAAAAGGA C GAAAGGAAAAGGAAGGAACCGGAAGGAAAGAAGGAAAAGGA $C \subset C G G A A A A G G A A A A G G G A C A A A A A C C G G G G C C A G A A A G G G G$ G G G G A A G G G G A G GAGGGAACCAAGGGGAAGGGAAAAAAAGGA CA GAGAAAACCAAGGGCAAGGACGACCAAGGGGGGGGAGCAA A G G G G A A A A A A G G G GCA $\mathcal{A} A C C C C A G G A A A G G A A A A A G G G G G G$ G G G G G A A C C G G G G G G G G A A G G A G G G G G G A A G G G A G C A G G A A A

G GAGAGAGGGGGAGGCAAGAGGAAAGGGGGGGGAAGAAGGGG
 A G G G A A A A G G G G A G A A GAGACAGGGGAGACCGGAGGGAAGGC CAAAAGGAAGGAAGGAAAGGGGAAGGAAAGAGAAAAGGGGGG G G GAA $A \operatorname{GAA} C \subset G G G G C A A A G G G A T A A G A G G G A A A G A A G G G G G$ GACCAAAGGAAAAACGGGGACAGAAAGCAAGGAGAAGGACCA A GAGGAGAAAAGGAGCAACAGGAGGGAGGGGGGAGGAAAGAG $G C C G A A G G G G G G G A A G A A A G G A A A A G G A G G G A A G A A A G G G G A$ CAGCC GAA $A \operatorname{AAAGAAGAAGGGGCACCGACGAAAGGGGCAAAAA}$ G GAAGAGAGTTGGAGCCAACACCGGAAAAAAGGAGGGGGAGA GAGGAGAACAGGGAAAGGGAACCAAAGAAGGAAGAAGGGCAA
 A A G G A G GCC $C G G G G G G G G G G G A A G G G G A A C C G A G G A G C A G A A$
 AAAGGAAAAAAAAGGCCAAGGAACAGGGGGGAAAAAAAAAAG GAAAGGGAGGGAAGGAGGGGGGGAAAAAAACGGAGCCGGGGA A GAACAGGGGAAAAAAGGGGAGGGGACAGACAGCCCAAAGGG G G A A A A A A A A A G G G G G A A G A G A G A A A A A A G GA GA GA G G G G G G GAACGGGAAGGAAAAATAAGGGGGGGAACGCAGAAAACCGGG G G G G G G G G G G G G G G A A C A A GA G A C C A A G G A A GAG GAACA G $\mathcal{A} A$ CAAAGGACCGGCAAGAAGGAGAGGGGGAGAAGAAGAGAGGGG A A A GAGGAAGAACCCGGGGGAGGAAAGCACAAGCAACAATTG GAAGGAAAAAAAAGGCCGGGGAAGGGGGGGGAGGGCAAAAAG A $G G G G A G G G A A G G G G G G G G A A G G A G G C G G G G C A G A G A C A A G C$ A CAAA A G G GAA $A$ A A A A G A A A A GAGGGAAAGGGCACCACAAA GA A A G GACC G GAG G GAACAAGAGAGGGGGAAGGCCAGGAGAGGC A G G G G G G A G G A GAATAGGGAGGGAGATGGCCAAAAGAGAGAC A GAA $A \operatorname{GG}$ GAAAAAAAAAAAACCGACAAGAAAAGGAGAGAAA GA G G GAA $A \operatorname{AA} A G A G G G G A A C C A A G G G A A A G G G G G G G G G G A G A B A$ A G G G G GAAAGGGAAAACAGGGAAGGAAGGAAAAAAAGCGGAG G G G A G A C G A G A A A A A A A A GACAGAAAAAGGAAACC GAA G G CA AAGGACCACGAAGCCGGGGGGGCCAAGGAAAACAGCG
CAAA A A G G GAGAGGGGGGAGACAGGGGAAGACGAAAGGGGA CAGAGAGCCGGGAGGGGGGAGGAGGGAGGGGAGGGGGCAAAA GAACAAAAGAAAGAGAGAGGGGGGGGGAAAAGGAAGGAAGAA
 GAGAAGGAAGGGGGGAAAACCAAAAGGAAAAGGAACCAAAAG GAAGGAAGAGAAGAAAAGGAAAAAGGAGGGACCGGGAGAGGA G G A A A A A A GAC GAGGAAAGGGAGAAAAACGGGGCAAAAAAAA G G G G G A A G GAA $A \operatorname{GA} A G \operatorname{A} A A C G A A A G G A A G A G A A A A G G A A A G B A$ G G G G G G A G GAA $A \operatorname{GGGGGAGGGAAAAAGGGAGGGAAGAAGACAA}$ A GACC GAACAAGGAAAGCCGGAGAAGGGGGGGGGGCAGAAGA
 G G GAAAAAAGGGGGGGGAAAGAGACAAAAAACAAGGGAAGEG GAAAAGGAACGAGGAGGAAGAGGAGGAGAGAGGGAGAAGA$G A$ A A G G GAGGAAAAGAGAAGGAGGAGAGGACAAAACCCCAAGAG A G G A G A G A GAA A G G G G A GAGGAAAAAGGGGGGGAAAAAAAAA
 GAAGGACGGAAAAGGGGAGAACCGAGAGGGGGGGGAAGAAAG GCCCCGGCAAGAACCAGGGGGAGAGGGGAAGAGGGGGABAAA GAAAAGGAGGGAAAGCCAGGGAGAAAAGGGGGAAAAGAGGGG GAAGGGGAAGGGGAGGGAAGAGAAGAGAAAGAAAAAAGGGGA $A C C T A A G G G G G G A A C A C G G G A A A A A C C A A A A A G A G A A A G G A A$ A GAA $\operatorname{A} A A A G G A G G G G A A A A G A A A G G G G A T T T A G C G G G G G C C G$ G G GAAAGCCAAAAAACCGGACGGAAGGAACCAAGAAAGGGGC C GAGAAACAAGAAACAGAAAAAGGACCAGACGAAAGGAAGAA GACGGAAGGAAGGGACCGAACAAGGAAAAAGAGGGAAAAGET $T G G A A C C A A A G A A A A A A A G A A A A A A G G A A G G G A A A A C A A G B A$ $A G G G A G G G G G G G A G G G A C A G A A C A A A A G A G A G G G G G G G A G A A$

AAAGAAAAAAACAAAGGCCAAAAGGAAAAAAACGGAAGAAGG $G C C G G G G A G A A A A A T G G A G A C A A G G G G A A A A A A C C G B A A G G A$ AAACCAAAAAAAAGGAAAAAAAAAAGGGGGGAAAAAAGAAAT TAAAAAAGGCCGGAAGGGGGGAATTAACCGGAAGGGGGGGGA AAAAAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAG G G G A A G G A A C C A A A A G G A A G G A A G G G G A A G G G G A A G G A A G G G GAAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGAA AGGGGCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAG GAAAAAAAAAAAAAAAAAAAAAAAAAAGGGGGGGGAAAAGGG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA AAAGGAAGGAAAAGGAAGGAACCGGAAAACCAAGGGGGAAAA A G G G GAAAAGGCAAGAGGAAGAAGGGGGAAGGGGCAAGAAAAA A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G A A G G G G A A G G G G A A A A $\mathcal{A} G G G A A A A G G G G G G A A C C A A C C G G G B A$ A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGG $G C \subset C \subset A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G A A A G$ GAAGGAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAAC C G G A A A A G GAA $A \operatorname{GAAAAAAAAAAAAACCAAGGGGGGAAGAAAC}$ CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACCAACCB GAACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGG G G GAAGGAAGGAAAAGGCCAAAACCAAAACCTAAGAGAAAAA ACAAGAAAAGGGGGGAAGGAACCAAGGGGGGACAAAAGAAAG GCCAGAGGGAAAAGGAACCAAGGACGAGGAAGGGGAGAAACB GAAGGGAGGAAGGGGGGAGAGCCAGGGGGACGAGAAAAGGGG G A A A A A A A GAAAATTAAGGGGGAAGCAGATTAAAAAAAACCC AAAGAAAAAAACCAACCAAAAGGGGGGCAAGAAAAGGAACCG G G G G G A A T T G GAAAAAGCCGCACGAAGGAAGTACAAAAGGAT TAAACAACCAAAACAGAGGGGAAAGGGGACAGGAAAGCAGAA GAAAAGGGGAGGAGGAGCCGGGAAGGGAGGAGGAAAGCCGGC AAAGGGGAAGGGGAGACGGAAACAAAAAAAAGCAAGGGAAAA A G G TAA A GAGACAAATTAAAAGGGGAAAAAAAAACAAA GAAA AAGTACCCAGACACACAACCCGGCCGGAAGGAATTAAAAGGG GAAAAGGGGAAAAGGGAGAGGCCCCGGGGAGAGGGACAAAAG
 G G G A A A C C G G G G C A A G G G G A G G A A A G G A G A G G G G G G G G A G G G GAAAAAAAACCAACCGGGGAAGAAAGATTGAGAAAGAABAGA CAGGGAGCCAAAGGGGGGGGAAAGAAAAACAGGAAAAGAAGA AA $A G G G A G G A C G G A A A A G G A A A G G A A A A A A A A A G G G G A A A G A$ GCCAGAAAAGGGGAGAGGAAGAAAAAAAACAGGAAAGAAGAG GAAAAAAAGGAAGGGAAACGGAAAGAAAGGGAGGAGGAGGAG ACAAAAAAGAGAAAACCGGGGAGCCGGGGGGGGAAAAAAAGG GAAGGCGGAGGCCAGAGCACCCCACGGGGAAAGAAGAAAGGA C GAGGAAGGAACCAAGGATAAAGAGAAGGAAAAAGCCGGGGG GAAAAAAGACCCACCGGGGACAGGGGGAAAGGGGAAGAACCB G G G A A C A G A A G A A G A GACACAGAAGGAAGGGCACCAAA GAAC C G G T T A C G GAGCC G GAACCGGAAGGGGCCGAAGCCGGAAGAG A A C C A G G A A C C A G A A G GAGAGGGGAAATTCCGAGGGAAAAAA A GAAATAAGGGAAAAGAGCGAAGAGAACAAAACAGGGGAAAA A G G G GAAACGACCGGGGAAGGAGAGAAGAGAACCCGAAAAAA
 GAACCGGGGGGAAAGACGACAGGAAAACCGAGACCAGGGGGG A GACCAAGAGAACACAGCAACCAGGGAGGAGCGGAGAGAAGG A G A A G A G A GCC G G A A C C G G A A G A A G C C G G C C G G GA G G G G G G A A A GAAAAGAGGAAGAGAGGGGAAAAAAAAGGGGGGAAAAAAC C G G G G G G A A G G A A A A A A A A A A A A GACA GA G GA GA G GA GA G G G GAAGGAAAAAAAGAGCGCAGGCCAGCAAGGAGGAGGGCCCCB G GAAAGGGGAACCGGAAAGCCGAGGGAAAAGGGAAAGGAAAA A A GAGAGAGAAGAAGAAAACCAAGGGACCGGGAGGCCACGAAA $A C C G G A G A A A A A A A C A G C C A A G G A A G G G G A C A A G A G A G G G A A$

GACAAGGGGGGAAAAAAAGAGGGGGAAGGCAGGCAAAAAGGA A A A G G A A G GAAAAAGAAAGAGAAAAGGGGACAAGGAAAAGBA A A ACCACATCCACCCAAAAAAAAAGCAGAGGAAGGGGACAAG G G GCAGGAAAAGGAGGAGCGAAGAGAAAAGGACGAGGAAGAA AAAGGCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAAGA G G G A A G A A A A G G G G A A A G A A A G G A A A A A A G GA GACAA $A$ A A G C $A C C G G G G A A A A A G A A A A A G G G A G G A G G G G G A A A A G A A A A G B A$ G G GCCGGGGGGGAGGGGCCAAAGAAAGACGGAACCAACAAAA A G G G G A A A G G A A G A A C A GAGGAAGGCCAGGGGGACAAGAAAG G GAGGGGCAGGGGGGAAAGAGAGGGCAGAGGGGAAGAGAACA A GAGGCCAGGGGGGGGGGGAAGGAGAAGGATGGAAAAGAAAA
 G G G A C A A G G A A A A G A CAAA $A \operatorname{AGGGGGGAAGTTAAGGAGAAAAG}$ A A A A A A C A G G G A A A A A A G G G G A A A G GAAAA A A A G G A A G A G G A $A C C A A G G G G A G A A G G A A A A G G A A G G A A A A C C A A A A A G A G A G G$ AAGGGCCGAACAAGGAAAAAAAAAAGGGGAAAAAAAAGGGGG

 AATGAAACCACGGGGAGGGAAGGACACGAGACACCCAAGATA GAAGAGAGGGAAAAGGGAGAAGGAACCAAGGGGGGAAAAAGAG

 GCAA C G G A G A G A A A G G G G G A G G G A A G G G G A T A C A G G G A A G G A

 A A A A A G G G GA $\operatorname{A} G A A G A G A G G A A A G G G G G G G G C C G A A A A A G G A$ AAAACGAAAAGGGAAAACCAAAAAAAAAAGGAAGGAAGGGGA AAAAACCGGACGAATGAAAGACAGCAAGAAGCGAGGAGAAAA ACAAACCGAACAAGGCCGAAAGAACGGAAAACCAAGAAGGAA GAACAAACCAAAAAAAAAAGGAGAAAAAAAGAAAGAAAAGAA A GAGGAGCCCCAAAAAAGGGGGGAAGGGGAAAGAAGGGAAGAG G G GCCGGGAAAAAGGGGGGAGAAGGGGGGAACCAAAA
G G G GAAACAAGGGGAAGGGGCCGGGGAAGGGAAAACGGAGA GAAGAAAAGAAGAAGGGAAAAGGCCGGGGGAGAGACCABAAG GAAAAAAAAGGGGGGAAAAACAAGGAAAGAATTGAAAGAAAC CACAGAAGAAGGAGAAGAAAGCAGGGGAAGGAAAAAAAAGGA $G C C A A G G G G C C G G G A A A A A A A G G A G A A G G C C A A A A G G A C A G G$ $C G G A A A A G G C C A A A A A A C C A G A A A A G A G A G G G A C C G A G C G G C$ C CAACCCACGGCAAGACGGGGAAGGAGGAAAACACBACAGGG G G GCCAAAACAGGGGGGAGGGGGAACGGGAAAAGGGAAACCG GAGGGAGAAAACCAGAAGAAGGGGAGGCCAGAGGGAGACAAC

 GCCGGGGCCAGAAAAAAGAGAGAAGGAAAACAAAGAAGAAGA $G C C A A A G G G A G A G G G G G G G G A A G A A G G A A C C G G G G A A A A A G A$ $G C C G G A A A A G G C A C A A G C A G G G A A G G G G G A G G G A A G A G A A A G$ G A G G G G G G G A G A A G GAA A G C C A A G G C C C C G G G G A A A C G G G G A A G GCAAACCAAGGAAGGGGAAGGACAGAAGGGGGGGGAAAAG G G G GACC G GAGACAGAAAGGGAAGGCCGGGGAAAACCAAGGC C C C A A A A A A G G A A A A G GCCGGGGAAAAAACCGGAAAA GGGGG G G GCCGGAAGAAAGGAAAGAGCCGGGAGAGGAACAAGAGAAG $G G A G G G G A A G A G G G G G A A A G A A G A G A G G A A G A A A C G A A G A A A$ A A A A A G G A G G G A A G G G A A C G G A A A CAA $A \operatorname{A} G A A G G G G A A A A G G G$ G G G A A G G A A G G G G G GAGGGAGAGACAAACAGGGGGAGAGGGG GAAAAGAAGGGGGAAAGGAAAGAAGGGGGCAACGBAAAACAA AAAAACCAAGGAAAGCCGGGGAAGGGACCGGAAGGAGGAAAC CAAAAGGAAAAAGGGAGAGCAGGGGAAGGGGGGAGAAAGAGB A A A G G G G G A GA A G GAAGGAAACCAACC GAAACCGGAGAAG GA $A G A G G G G G G A A A A G G G G A A C A A G T T G A G G G G G G G G A A A A G A A$

CAC G GA $A \operatorname{GGAA} A G A A G G A G C A A G A A G G G G G G G G G G G G G G G G A$ A G G A A A CAA A G G G G GCCAAAAACAGACAAAAGGGGAGAAGAA C GAAAGAGGACAGAAAAGGAAGAGGCAAGCAAAGGAAAGGGA TAAGGGGAAAGGGATGAAAGGAGAAACGAGGAAAAGGGAAAG GCAAGGGGGGAGGGGAAAGCCCCAGAGCAAACACAGAGAGAG GCCGGCAGGCCAACCGGAAAAGGAATTAAGGCCAAGGACABA GAGAAAAGGAGGGGGAAGGGGCCAGCAGGGGGAAAAAAAAAA GAACAAAGGCCGGAAGGAAAAAAGGGGAAAACCGGGGGGGGA
 C G G A A A A A A A A A A G G G G G G A A A A G G G G G G G GAA $A$ G A A A A G G G G G G T T G G G G G G G G A A A A G G A A G G A A A A A A G G G G A A A A G GAA A AAAGGAAAAGGCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAG GAAAAAAAAGGGGAAGGAAAAAAAAGGGGGGGGAAAAAAAAA A G G A A C C A A G G G G G G G G A A G G G G A A G G G G A A A A G GAAA G G A C ATATTGGAGCCACCAAGAGACAGGGCAGGACGGGGGAACAAA AAAAGGGGGAAGGGAGCGACCAGGAAGAAGAGAAAAAAAAAG G G GCACCAACCAAGGAAAGAAAGACAAGAGGGGGGAAAAAAG
 GAAGGAAAACCAAAAGGAAGGAGGGAAGGAAAAGGAAACCCG A G GA G CA GAACAGAAAAAGAAGGAAAAAAAAAAAAGAAAA G G $A$ GAGAAAGGAGGCGAAGACCGGAAGGGGGAGGGAGGAGAGGAG G GACCAAGGAGAAGGAAGGGGAGGGGGAAGGACAGGGGGGGG G G G A A G G A A A A CAAATXCCGGAAAAAAGGAACCTTAGGAAAG A G G G G GAGGACAAAAAACAGGCCGGACAGGGCCAACCCAAAA A A A A A G G A A A G G GAAA $A \operatorname{AGGGAAGAGAGAATTAGCCAACAAAA}$ GACAAAAAAAGGGTTGGCCGGAAAAAAAAAAGGGATTCCGAG AAAGGAAGGAAGGAGGCAAGGCCCCAAACAGGGAACAAAGGG ACAAAGGAAGGAGAAAAAACCAGCCAGAAAAGGAAGGAAAAG ATTAAGGAAAAAGCCGAAAAAGGCCAAAAGAGGGGGABCCCG GATGAAGAAGAGGACGGAGGGCGGGGAAGGGCCGGAAGGGGA A A A A A G G G G G A G A A A A A A A A A G G A A A A G G G G G G C C A G G A G G A A GACCAACCAAAGAGGGGGGGACAAGGTAAAGGCCAAAGAAA
 A G G GAGGCCCCGAAGGGAAAAAAAAAAAGAAAGAAGGGGGGA G G A A A A A G G A A A A A G A A A A A G T T G G G G G A A A A G A GAA $\mathcal{A} G G G A$ A G A A G A A G G A G A C A G C C G G A G A A G G A A G G A A G A G A A A A G G G G A G G G GAACCGGACAAAACCCCCCGGCCCCGGCCAAGGAAGGG A GACCAGGAGGAAAAAGAGGGAAAGAGAGAAAGAGAACAAGA A G G G G A A A A G GCCAAAAAAAGGAAGAAGCAGGAGGGGGA G GA G
 GAAGGAAAACGAGAGGGGGGGAAGGGGCCGGGAGGAACAGAG GAAGAGGACCGAGGGGGAGAGCCGGGGAGCAAAAACCTXAAG G G GAACCAAGGAAGAGGAGAGAAAGGAGAGGAAAGAGAGCAG GAGGGGGGGAAAAGGAGATAAAGAAGGAACCAAGGGGAGACG GAA $A \operatorname{G} A A A A A A G G G G G A G G G G A A G G G G A A G A C C G G A G G G G G G$ G G G A A G G G G G A A A G G A A G G G A G G G G G G G G A A A $\mathcal{A} A A A B A G C C G$ G G G G G G G G GAAAA A G A A G GA A G GA $A \operatorname{A} G G G A C A A C G G G G G G G G G$ A G GAA A GAGACGAGAGGAAAAGGGGAGGGAAAAACAAAAGAA AAAAGAACCGGAAAGAAAGAGGGCAAGAAGGAAAGGGAGAGG
 C G G G G A G G G G G G G CAAA A G A A G GAGAAGGGGGACACAAAAA $A$ A A G G A A G G G G G A GAG $A \operatorname{G} G A A A G A G A A G G G G A A A A G G G G C C G A A$ A G G A A G G A A G G A A G G A A GAAGAAGGAAGGCCAACCGGA GA GA AAAGGAAGGGGGAAGGAAGAAACAGGAGCAGAAAGAGGGGAG A G G A A TA $\mathrm{A} G A A C C G G G G A G A A G G G A G A A G G A A A A A C C T X G A G$ GAAAAAAAAGGAGAAGGAAGACCAAGGAGGGCAAGGAGAAAA CAAAA $A \operatorname{A} A A A A A G G G G A A G G G G A A A G G G A A G G A A A A A A G G G G A$ A A A G G A A A A A A A G G A A GAGGGGGAAAGGGACGGGCACAAAAA $A C C A A G A C G A A A A G G G G C C A G A A A A A A G G A A G G G G G G G A A G A$
$A T T G G G G A A G G A A G G G G G G A G G G C C C C G G G A G G A A C C G G G G G$ GCCAGAAAAAACCGGGGAACCGGAAAAAAAACCAAAAGGCCG G G G T T A A C C G G G A G G A A G G G A A G A G G A A A G G A A A G A A G G G G C CAAAAAATTAAGGAGGGGAGAAGAAAAAGAAGGAACAAAAAA AAAGGAAGGAGAAAAGGGGCCAAAACCGAGAACAA GGGGGGG A A G G G A A G G G G A A $\mathcal{A} G G G A A G A A G G A G G G A G A A C A G G G G A G G G$ GTTCCAAAAAAAGAGGGGGGAAGGGAGAAGGGGGAAAAAAC CAACCAGAGCCAGAAAAGAAAAGGGAGAGAGGGGGAGACGGG A A G A G A A A A G G GAG G GACACCAGAGGGGGGGAGGGACAGCCA AAGAAGGGAAAAAGGGAAGGGGAACGGAAGGAAGGAGCAAAA GAACCGGGGGGAAAAGGCAGACAAAGAGAGAGGAGCAGACAA A G G A A A A CAAAGGAACCAGAGACGGGGGGCCGAGGGGCCGAG G G G G A G G A G G G A A G A A GAGGGAAGAACCCGGCAAAAAGAAAG G G G G G A A G A G G G GAA $A \operatorname{AGGGAAAAGGCCGGAAGAGGAGGAGAG}$ G GAGGAGGGAGGGGAAAAAAAGGCAGGAGACGGAGAACAAAA AAAAGGAGGCAAGAAAGACAGCCAAAGGAGGCCAACCAAGAG AAACCGGGCACGGAAGAAGGGAGCAAAGAAGGAGAAGAAAAA A G GAACCACAGAGAAAAAAGGAAGGGGAAGAAGACAAGAAGAA AAAAAGGGGAAAAAAGGAGAAAAGAGAGGATAGAAAGAAGAG G G G A G A G A A A G A A G G A A G G A A G G A A G G G G A A A A A G A A A A G A A AGGGGGGGAGGAAAACCAACCGGACAGACAAAAGGGGCCAC G GCAGAAAGGAAGAAAAGAGGAAAAAGGCAAAAAGGAACAAAG GAGGGGAAGGGGGAGAGCCGGACGAAGAGGGGGGGGAAGA$G A$ $G C A A G A A A A C C G G G G A G G A G A A A A A C C G G A A G G A A A A G A A G G$ G G GAA A A A A A A G GAGGAAATTAGGAAAAGGAGGAAAAAAGGG GAAAAGAGGAGAAGACAAGAAGGAAGGAAAGGGGGGGAAGGG
 A GACCGAACAGGGGGGGGGGGGGGGAAAAAAGGCCAACAAAC C G GCCGGGAAAGGACGGAAGGGAAAAAGGAACCAAACCAAAA GAAAACCGGGGAAGGCAAGGGGAGGGGAGAAAAGAGGAAABC C G G G C A A A A TA G GAACCGGAACCGACAGGGGAAAGGGAACAC G GAACAGACAAAGGGGGGGAGGGGGCCAAACACGGGG
G G GAGGGAAGCCAAGGGGGAGGGGAGAAGGAAGGCAGGGGG


 GAAGAAAAAAAGAGGGAGGACCCAGAGAGAGAAAAACGAGAA GAGAGAGAGAACCGGAAAGGGTTAGAGGGCCAAAAAACACAC $A G G G G G G G A A A G G G A A A G G G G G A A G G G G G G A A G G A G A A G A A G$
 $G G A G A C C G G G G G A G G A A G A G G A A G G G G G G A G C A A A A A G A C A C$ C G G G G G GAAAACCGAAAGGACAAAAGGAAGAAGCAAGCAAAG
 AAAGGGGGGGAAAGGGGAACCAGACGGAAAAAAGAGGGAAAC C A G G A G G G G T T G G C C G G G G G G G G G A A A A A A A C C A A G G G G A A $G$ GAAAAAAAAGGGGAAGGGCGGAACCGGAAAAAAGGCCGAACA AAAGACAAAGGGGAAGGAGAAGAGGGGAGAAGGACCAGAGAG G GAGGAAGGGAAAAGAGAGCAGGGGCCGGAAAAAAAAGGGAG A GGCCAAAGGGAAAAGAAAGGAAAAGGGAAAAGGGGGBAAAG A A GACAGGGGAAGACGGAAAAAAAAAAGGACGAGGAACAGAA AAACAGGGGGAGAAAAAAGAAGGTTAGGGACACGGGGAAAAG $A C A G A G A G G A G A A G G G A G G G G A A G G A A A A A A G G C C G G A A G A A$ A A A A A GAAAAAAAGGCAGGCCGAGGAGAGGGAAGGAAAGCAA $A C C C C A C G C A G G A C A A A C A G G A A A A A A G G G G A G T T G G C C A A C$ C G GCCAAAAAGGGGGAAGGGGGGAGGAAGAAAAGBGAAGGGG
 AACGAAAAAAGCCGAGGAAAGAGAGAAGGAAAGCCAGACAAG $G C \subset A A A G G G A G A G A G A G A A A A A A A G A A A A C C T A A G A A G A A G G$ G G G G G GAAAAGAAACGGAAGGCCGGACGAAGAAAAGGGAAAC

AGGCCAAGGGGAAAAGACAGAGGCCAGGGAAAAAGGACCAGA GCCAAAAACAGATAGCAGGGGGGCCAAGGGGCCACAACAAAC GAGGGGGAAGAGGAAGGGGAAGCAAGAAAGATTCCGAAAGGA AAAAAAGAGGGGGGGCACAGAGGACGGAAAAAAGAAGGACAC ACCAAAAGACCAGAGAGAAGGAAAAAAGGAACCGGGGGAAAA
 A GAGAGAAGGAGGGGAGAACAAAGGCAAAAACCAAGGGACAG GAAAAGAAGGAGGGGAAAAAGGGAAGGGGAGGGAGGAAAAAA A G GAA A G G GACCAAAAGGGTTGGACAAGGGAAACCCCGBAAA A AGCCAGAAAAAAAGACCCAGGGCACCAGACACGGAGCAAGA
 A A GA $\operatorname{A} A A A G A A G G A G G A A G A A G A A G G G G G A A G G A A A G G A G G A$ $A G G G G G A C A G G G G A G G G A G A A A A A A A A G G A A G G A A G G G G G G A$ ACCGGCCGGAAAAAACCCCGGGGGGAACCAGAGGGAACAAGA

 GA $A$ A $\operatorname{G} A C G G G A A A T T G A A A G G G G A A G G G G G G A A G A A G A A G G G$
 A G G GAAA $A \operatorname{A} G \mathrm{G}$ GAAGGAAAGGAGGCCAAGGGAAAGGGGGACAA G G G A A C C A GAGAAAGACGGAAACAAGGGGAAAAAAACAAGGA A G GAA A A A GAGAAGGACAGAAGGCCAAAGGGAAAGACGGAGG
 GAGGGGGAAGACCAAAGGAGGAGAACAGGCAAGAACCGGGGG GAGGAACGACAGGGGCCGGAAAAGGGAGGCCGAGGAGAGGGA G GAA A GACCAGGACCGGGGAAAAGGAAGGGGAAGGGGGAAAA A GAGGCCGGAGAAACAAAAGGAAAAGGAAAGCAAAGGAGGGA A GAAAAAGGGGGGAAGGAAGGAACCGACAGGACAAAGGAAAA AGGCCGAACAAGGAACAGAAAAAAAAAGAAGGACCGGGAAGA A G A G G G G G A A A G G G C A G G G G G G G A G A A C C A A G G G GC C G A G A A GAAATGGGCGGGGGGAAAAAAGGACGGAGAAGGACAAAAAAG A G G A G A G A A G G GAA A A A C C G G G GCCAAGGGAGGAAAAAACCC $C G A G G G G A G A G G G G G G A G G G G A A G G C C G A A G A G A A G G G A A A A$ A A A A A A ACCAA G GAAAAAGAAAAAAAGGGGGAAGGGGBAACAA A G G G G G G C C A A G G A A G G A A A C G G G GAGAGCCGAGACCA G GA A G G G G A A A A A G G G G G G CA $A \operatorname{GAA} A A A C G C C A A A C A A G G G G G G G G A$ GAGACGAAAAAGAAAAAGAAGAAGGGGGGCCAACAGAAAGAA
 A G G GAAACCAAGGGGAGAGAGGGGGGAGAGAAGAAAGGGGAG G G G A A A A A A G GCCAAAAGGGACCGGGAGAGGAGAGGAGAAAA
 AAGAGCCCCGGGGGGAACCGGAGAAGGGGGAAGCCGAAGAAG GAGACAGGGAAGAAAAAAGAGACGAAGGGCAGGGGAAGACAA A G G GAA A A G GAGGGAAGGAGACCAAGGGGAAAAGGAAGGGAG
 A GAAAAAAAAGACGACAAAGGGGGGGACAAGAAAGGGGAGGG GAACCGGAAGAAGGGAGAAAAAGGGAAAAGGAGAAGAAGAAG AAAGGAAAAGAGGAAGAGGAGGGCCGGAAAAAGGGAAGAAAG G G G G G G GAA $A \operatorname{GA} A G A G A A A A G G A G G A A G G G G A A A A A G A A G B A$ GAAAAGGAAAAAGGGACGAGGGAGGAAGGGGAA GAAAAGAAG
 A GACAA $A \operatorname{AGGCAGGCAGGAAAAAAGAGGGAAAGGGGGAAAGAA}$ GAGCCGGGGAAAAAGGGAGGGGAGGAAAAGGGGGGGGGAAAA G A A A A A A A G A A GAAAAGAACAAGGGCCGGAAGGAAAAAAGGA
 G GACAGGAAGGGGAAGGAAAAAGCAGAAAAGACAACAGGCCA A GAGGGGCCAAAAAGGAAAAAACGGGAGGCAGGAGAGAAAAC CAAGGAACAGGAAGGGAGGAAGGAAGGAAGAAAGGAAAAAGA G G G G G G A A G G G G G A A G G G G A A A G C C A A GA GA A A G G GAA A C C A GGAAAAGCACCCAAGAAAGGGAGAGAAAAGGGAGAAAAAAAC

CAAGGGGAGCCGGAAACGGAGCCAACCGAGGAGGAAAGGGGG G GAA A A A A A G G GAGGAAAAGAAGCCAGGGGGAGAAAGAAGAG G G GAAAAAAGAATAAGGGAGGAAGAGGGGAAGGAAGAACBAA GAAGAGGGAGGGACCGGAGCCAAGGAAGGAAAGGGAGGAAAA A G G G GAAAGACGGACGGAAACGGACGAAGACAGGAAAAGAAG G G G G G A G T T A G A G C C A G G G A A C C G A C A A C G G G A A C A G G G G G C A G G G G A A A A A GCAG GAGAC GAAGAGAC GAAGCAAGAGACA GA GGAAAAACCAAAGAGGAAGGAACAAAACAACAAGAGGCAGAA A G G A A G A G G A C A G A A G G G A G A G G G G GAGGAGGGAAAAAA G $A$ A A GAAGGGGGGAGGAGGAAGAGGGGGGGAAGCCAAGACACCAGG GAAAAA $A$ AAAAA $A \operatorname{A} A A A A A G A A A A G G A A A A G G A G G G G G G G G G A$ A G A A G G A A G G G C C G G G A A G G A G A G A G G G G G G G G C C G A G A A $\mathcal{A} A$ C GAA ACC G GAGGGGGCCAAGGCCCCGGGGGGAGGGGGGAAGA A A G G G A A A A C C G A A A G G G G G A A G A G G G GAGGAACCACAAGAC A G GAGGGGGGGGGAGGGGGGAGGAAGACCCAAAAACAAGGGC $C \subset C G G A A G G G G G G G G C C G A A G C A G A G G G A A A A A A A G G A G A G C$ CAAAAAACAGGGGGGGGAAAGAAAACAAGGGAGAGAAAAGAG
 GAAGAGGAAACGAAGAGACGGGAAGGACCGGGAGGGGGGGGC C GAGGAGAGAGGAAGAGGAAGAGAAGGGGGGAAAAA GAA G GAA
 GAAAAAAGGGGAAGGGGCCGGGGAAAAAAGGGGAAGGGGGGG GAAAAGGGGGGAAGGGGGGAAGGGGAAGGGGCCCCGAAAAAC CCCAAAAGGAAAAGGAAAAAGCCAGAGGAAAGGAAGAAAACA A A A A A G A G ACAGGCCGAGAAAGGGAAAGAAAAACCAAGAAAA
 $C G A C A C A C C A A A G G G A A G G G A G G A A C C G G A G G G A G C C A A G G G$ G GAGGAAAGAAAAAAAAGGAAAAAAAAGGGGCCGGGGCAGBA A G G G G A A A A A A G GCC G G G G A G A GAGAAGGGGAA GAGAAAGAA AGAAGGAAACAAAAAAACCCCAAAAAAGGAACCGGAAGAAAG $A \subset A A A G G A A G G G G A G G A C C G G G A A A A A A A A A G G A C A G A G G G T$ TGGCAGAGGGGGAGAAGAAGGGGAAGGGGGGAACAGG
ACAGGGAAGGAAAAAAGGGGGGAGAAAAAAGGAACCAAAGG GAACCCCAAGGAAAAAGAACAAGGGAAGGGAGGGGAGAGAGG
 TCAGGAGAAGGCCAACCAAGGAAAAAAGGAACCGGAAAAAAG GAAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGACGAGGACC AAAAAGGGAAGAGAGGAAAGAAAGGGGGGGAACGAGAAGACA A A A G A A G A A A A G A G GAAAA $A \operatorname{AGGAGGGAAGAAGGAAGGCAGAA}$ ATTGGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC C G G G G A A G G G G A GAAAAAGCAGGCCGGAGGGAAGG GAAAAG G G G G G G G G G A G G C C G A A G A G A G G A A G G G A G C C G G A G A G A G A A G AGAGGAGGGAAGAGAGGCCGGAAAACAGGCCGGAGGGGAAAA
 A A G G G C A G G G G G G G A G G A A A C A A GAGGGGGGAGAA G G A A A A $C$ C GAGGAAAGGAGAGGGGAAGGAAAAAAAAAAAACCCGGAGGG ACAGGACCCAGAGAAGGAGCCGGAAGGGGAAAAAGAAAAAAA GACAGAAAAGGGGGACAGAAAAGAGAGAGAAACGGAGGGGGA CACAGGGGGAAGAAGCAGGGGAACAGGCAAGAGAACAGAAAA $A C C G G A A A G G G G A A A A G G G A G A G C C A G A C A G A G G G G G G A A A G$ GAGGGGGAAGGGGGGGAAGCCGGCCGACAAGAAGAGGCAACA A G GCCGAGAGGGAAGGAAGGGGGAACCGGAACCAGAAAGGGC C A A A A A A A ACCCCCAAAAAGGAAAAAAGGGGCCAAGAAAACA GAACAGGCCGGCCACCCGGCCGGGGGGAAGAGAAAAAAAAAG AAAGACAAGGGCCAAAACCCAGGAAGGAAGGAGGGAAGAGGG
 A A GCA $\mathrm{A} G \mathrm{G}$ GAGAAGAAGAAGGGAAGAGGAAAAGGGGGAAAAAA
 AAAAAGGGACCCCGGGGGGAAAAAAAGGGAAAGGGAAAGAGG

GGGCCCCCAGAAAGGAGCAGAAACCAGAACCAAAGGAGGGGA
 AACGAGGAAACAGAGGGAAGGGAAGACGGGGAAAGAGAACAA A A GAAAAGAAAGGGGGGAGAGGACCGGAAACGAAGGAAAAAA G G G G G GAGGAGATGAGGAGAGAAAAGGCCGGCCAAAAGAAAG GAAAAAAGGCCAAGGAAAAGGTTGGAAGGGGAAAAAAAAGGG GAAGGAAGGGGAAGGAAAAGGGGCCAGAACCAAAAAAAGGGA AAAGGAAAAAGAGGGGAGACAAAGGGGAGGGGGGGAAAGGGA A A A A A A G A A GACC G GAGAGGGGAGAGGAAGAGGGGGAGAA G G GAAGGCCGGGGCCAGGGAATAAAAAGGAAGGAGAGAGGAAAG
 GAAGGAGAAAGCCCAAAGGGAGAGGAAGGGGAAGGGAAAGGG A GAAAGGGAGGAGAAAACCGGTTGGCCCAAGGGGAAGAAAAG A A C G A A A A A G G GA GAAACCAAAAAGCAAGGGGGAAAACAGGG G G G A A A A G G A G G G G G A G G A G G A A G A G G A G G G G G G G GA G G C C G GAAAACCGGAGGAAAAAAAAAGAGGAAAAGGAAACGAACACA CA $\mathrm{A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{G} G A \mathrm{~A} A C \subset C A A G G A A A G G A A A A G G A T A A G A G C A$ TAAG GAAAGAAAACCACAGAAAAAGCAAGTTAAAACACCGGA AAGAAAAGGCCGGAAAACCCAACAAACAAAGGGAAGAGGGGA
 GCCGGAAGGAAGGAAGAGGAGCCAAAGAAAGGGACCCGAAGG GCCAGGGCCAAGACCAACCAGGGAACGAAAACCGGGGGGGGC C G G G G C A A G G G G G A A G G A G GAAAAAAGGAAGAAGGGA GA G G G G GACAACCGGGGGGACTTGGAGAACCCCCCAAAAAGAAAAAAG G G A A G A GCAGAAAAGGAGGCACCGGAAGGGGATGGGAAGAGA G G G GAAAGGAAAAAAGGAGCCACGAAGCCGGAAGGCAAAGGA G G G G G A A A A A A G G A A G GAA $A$ G T TAA $A$ G G GAACCCCAACAAAA A A ACCAAGGAAGGAACCAAGGGGGGGGCCGGCCCCGBAACCB GAAAAAAGGGGGGAACAAAGGAAAAAAAAAAGGGGGGGGGGG G G GAAGGGGAACCAAAAAAGGAACCGGAAGGAAGGGGCAAAC C C C C C G G A A A A A A C C C GCGAAGGCCAGCCCCGGAA G GAAA G C AACGAGGGGGAAGGAGGCAGGGGAAAAAGAAAAGGAGAAACA
 G G G A G G G G G G A A A G G A A G G G A A A G G G A A A G G G G G G G G A A A G G GACGAAAGGCAAGAGGGGAGAGGGGGGAAGGCAGGAAAGAAA A G G G A C A G G G A A G A G A G A G G G G A A G A A G G T T G G A G C C G G A G G A GAGGGGGGGAGGATAAAGAAAGAAAGGGGGCCAAGGGGGAA AAAGGGGGGGAAAGAAAAAGGGAGGGGAAGGAAAAAAAAGAA A G G A A A G A A A A A A G GCCAAAA $\mathcal{A} A G G G G G A A G G A G C C G G A G G A A$ A CAG G GAGGCAAGGAAGCAAAAAGAAAGAAACCGAGGAGGGG $G G G A A A G A G A G G G G A G G A C A A C C A G A G A A G G A G G A A A A A G G A$
 AGACCGGGACCAAAGGAGAACCACCGGAAAAGGAAGAGCACA A G G A G A A A A A A A A A G G G G G A A G G G GAAAA A A G G C C G GAAA $A$ A G GAGGCCAAGGGGAGAAAGGAGGAGAGAGGAAGGAAGGAAAA A A G G A G GAGGAGGAGAAGGGGAGGGAAAGGAAAGAAGAAAA G G G GAAGGGGGAAAGACCAAAGCCAGAAGGGGAGAGACAAAGAG GAAGGGGGGAACCGAACAGGAGGAGGGCAGGGGGAGAAAAAG GAGAAGGGAGGAGGAGGAAGGAAAAAGGGAGGAAAGGAACAA C G G G G G A G G A G A G A A G G G G A A G G G G G G G G A A C C G G C A A C A G A GAACGCCAGACGGGAACGGAAGGCAGAAGCCGAGGAGGAAAG AAAAGGACCGGAGGGCAGACCAAGGGGCCGGAAGGAAGAAAA A A A C A A A A G G G A A G A G G A A A G G A G G A G A A G G G A A G A G A A G G A AAGGAGGGGCCAAGAACAGGGGGGAGAAAACAAGGGGGGGGA $A G G G G A A G A G G A A C C G G G G A A G G G G G G G G G G A G C C G G G A A G A$ A G G A A C A A A A A A A G G G GAGAGGGAAGGGGCCAGAAAAA G G G A A C A GAC $\mathcal{C} G A G G G G G A C G G G A G A G G G G A G G G A A G G G G G G G G G G G$ G G G A G A G G A G A C A A G A C G G G G G G G G G GA A A A A A G G T T A A G G G $G G G A A A A G G G G A A A A A A G G G G G G G G A G G A A A G G A A A A C A G G A$

G G GAGAAAAAAAGAGAGGAAGGGAAGGAAGGAGAACAGAAA G G G A A C C G GAA $A \operatorname{GCCA} A A A G G G G C C G G C C G G G G A G C A A A A G A$ CA $\operatorname{CAAAAAGGAACCAGGGGGAGCAGAAAGAAAAGGAGAGAAAC}$ CAAAAGGAAAAGGAGAAAACCGAAAGGAGAACAAAGGCAAAA A G G G G G G G G GAA A A A A GAGCAAAGGGGGGAAAAAA GAAAAG G G A A A A A C A A A G G G A CTTGGAATTCCAAGAAGGGAACCCAA GA C G GCAA $\operatorname{C} A \mathrm{~A} G \mathrm{~A}$ GAGGGAAAGGTTGGAAGGAAGAAGGGAGAAC AAAAGGGGAGAGGAGGGGAAACGGACCCCGGAGAGAAAGAGG G G G G G G G G G G A G G G A A A A C C C A G GAGAGGAGAGAGGAAAAAA AGGAGAGGGGGACCCAGAAAGAGAAGGGAGGAAGGCCAAAGAA $C \subset C \subset C C C A A G G A A A G A A A G C C C C A G A A G A G A G A A A C G G A A A G$ GAGGGGAAGAACCAGGCCCAAGGGGGAAAAAGGAAAAAGGGG GAAGGAAGAGGAAATGGACGAGAAACAGGAAAAAAGGGGCCA GAAAGCAAAGGAAAAAAAACCAAAAGGGAGGAAGGAAAACAA CAGTTTTGGAAGAGGGGAAAAGCAGAAGGAGCAGAACGBCAA ACCGGAAGACCGAAGAGAAAGAAGAAACCGGAACCCAAAAAA AGACGGGAAAGAGAGAAAGGGAGCAAAAGGGAAACGAAAAAA AAAGGAAAAGGAAAAAAGGAGAAGGGGGGAGAAAAGGAAGAA AAGGGAAAACCAAAGAGACCATAGAGGAAGAAAAAGGAAAAG G G G G G A A A A G G TA A G G G A A G G A A G A A A G G A A A G G A A A A A A G G A A GAGGGAGAGAGCCAGGGAAGGGGAGAAGAGAAAAAGGGGA A G GAA A GAACCAAAGAAGGGGAAGGGGGGGGAAGGAAAAGAA A GACAAAGGGGGACCGGGGAGCACAGGAAAGAAAGAACAAAA A G G G G G G G GAGGGAAGAGGAGGACCAAAAGGAAAGCCAAGAA GAAACAACCAAAAGGGGAAGAGGAGGGAAGAGGACAGAAGAG GAGAGGGAGGGAAAAAAGAGGGGAGGAGAAAACAGGGGGGGG GAGACGGAAGGAAAGAAGGTTAACCAGGGACGAAGCCGGGGA A GAAAAAAAAGGAGGGGGGGAGAGGGGGGAACCGGCAAAGAA A G G G G A A A A A A G G A A G A A A G G G G G GAAGGAAAGA GAAAAAAA GAGAAGGAGAGACGGGAGAGGAACAAAAGGGGAGGAAGGGGG G G G G G A A G GAACAAAGGAAAGAGAGAGGGGGGGAAAACACCA AGAACAGAAAGCCCCGGGAAAAACCAAGGGAGAGAAG
GGGGCCAAAAGGGGAGGGGGCCAAAACCGGCCGGAAAAGGC C G GAGGGCCGACCGGGGAAAGACAAAAGAGGAAGGAAAAAGA CAAGGGGAGGGGGGGAGAGAGCAGGAAAGAAGGGGAGGGGGA
 G G GCAGGAGGAAACCGAGAAGAGAAGGCAGGGAGACAAGTTG G G GAA $\operatorname{A} G A G A C A A C A C A A A A A A A G G A C A A A A A A G G G G G G G A G$ A A G G GAGCAAAAAAAAGGGAAGAGAGGGGGGAGCCGAAAAAG
 C G GAAGGAAGGGGAAAAGGAAGGAAAAGGGGAAAAAAAAAAA
 A GACACCGGGAGGAGAAAAAGAAGGGGCCAAGGAGAGAGAAA A GAAAAGAAAAGGAAGAAAAGCCGGAAAAGAGAAGCGACAGAA G G GAAA A A G G G GAA A A GAAAC GAGGGAAGACGACCAGACGGG GAAAAGGGGCCGAAAGGGGGGTTAACCAAGGAAAAAACCGAA GAGGGAGAAGAGGGGAAAAAGAGAAAAAAGGGAAAAACAAAA A G GAA A GAAAGGGGGGGCAGAGAGGGACAGGCAGACCGGGGG $G C C C C A G A G G G G G C C G G G G A A G G A A A G A G G G G G A A C A G A C C G$ GACAGGAACAGGGAGCAAAGGGGAAGGAAAAGGAGAGAAATA A A A G G A GCCAAGGGGGCGGGGGGACGGCAAGGAGAGGAACCG GAAAAAGGGGGAAAAGGGGAAAAGGGCAGGAAAAGGAAGGGA A G G A G A A A A G A GAGGAACCGAAGAAAAAAGGAGGGAAAAAAG G G G GAGAGGGGCCGGGAATAAGACACAGAAGGAACAAAAAAA ACAAAAAAGGGGGCCGAGGGAAAAGACGAAGAAAAAACCCCG G G A A A C C G GAGACCAAAAGAAGCGCAAGGAAGGACCC GAAAG GAGGGAGACAAAGGAAAGGCAAAGGAAGGGGAGGGAAAAGAC CGGAGGGACCAAACCGGAAAAGGAAGAAGCCGGAGGGCACAA $G C C G G G A A A A A A G G A A A G G A C A G G A A A A A A A G G G G A G A G A G A$

A GCAAGGAACCACGACCGGAAGGAAGGGGAGAAGGGGAAGGG GAAAACAAAGGAGAAGAAACCGAGAGAGGGGAAAAGGGAAAA GCAAA C G A A A A GAC C GAGAAACCGGAAAAAAGGGAGAGGGGC C G G G G G GC C G G G G G G G A A G G G G A A TAGGGAGGGGGAGAAAAC GAGGGAAGAGGGGAAACGGAGGGAGGGCAAACCAAGAAAAAA
 TAAGGCCAAGAGGAGGGAAAAAAAGAAGGAGCCAAAAAAAGG A G G G GAA $A$ AAAAGGAAGAGGAGAAGAAGAAGGAAAGAAGAAAA AAACCCCGAGGGGGGAAAACCCCAAAGCCGAGGTTGAAAAAA AAAAAAGGAAGAACAAACAGGAAAAAGGAGGGGAAAGAGCAG G G GAC C G G GAACCGGAAAAGGGGAACCAGAAGGAAAAAAGAA G G G A G A G A G A G A A G C G A G G A A G G A A C G A G G A G A A A G G G G G G G G G G G G A A G G A G G G G G G A A A A A G G G G G GAAAAACC G GCAA GA G G A G G A A G G G GAA A A G GAAAAAAACCGGGGAAGAAAAA GGGGGGA CAACCAACCAGAGAGAAGAGGGGCCGGGGGGAAGGGAGAAAG G G G G GCCAGGGAGGAAGAGCGCAAGAGAAAAAAAGGAGGGGG A A GAGGGAAACAAAAGAAAGAAGAGGGCAAAGGGGGGGGGGG G G G G G A G C A A A GAA A GAGGCCAAGGGAAGGAAGAAAAAAAAA A G G G GAA GACCACAAGAAAAGAGAACCGAACAGAGAAAGGAA
 A A A G G GAGAAGCAAGAGGGGGGGAGAAAGAATTGAGAAAAAA G G GAGAAGGAAGAGGGACCAAAAGGAAGGGGGGAAGGCAGAA A G G G G A C A A A A A G G A G G A A A A A G G G G G C A G A GACAA G GAAA A $A G G C C A A A G A G G G A A G G A G G A G G G G A A A G G G A C G A A A A A G E G$ A G G G G G A C C A A G G G G G GCC G G G G A GAA A A GAGG
 AAAAGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGAA $A C C G A G A A G G G G A G A G G A A C C A G A G G G A G A C G G G G C C G G G G G$ $A G G C C A A G G A A G G G G A A G A A G G G A G A G A C G G A G A A A G G A G A A$ ACAAAGGAAGGAAAGCCAGAGCCGGAGGAGAAAAAGGGAGAA A A C G A C C G G C C A A G G G A A A G G G G G A A A A G G G G G C C G G A C G G G A G G A G G A G G G G G G G G G G G G G G G G A A G G G GC CA A T T G G A A G G A
 A A A A A G A A A $\mathcal{A} G G G G G G G A G G A G G A A G G A A A G A A G A A G A G G G G$ GCCGGGGAACCGAAAAAGAAAGGAAGGGGCCGGCCAAAAAAG G G A G G A A C C A G A A C C C C G G A G A A G GAGAAGGCAAAA G T T G A A A GAAAGAGGGAAAACCAAGGAAAAAACATTCCAGAGACGGGGA AAAAACAAGGAAGAAAACAAAAAGAAAAAAGAAAACCGAAAG
 A GAGAACAACCGGCCGGCAGGGAGACAAGGAAAAAGGGGGGG GAGGAGAGAGAGACCAAAAGGGGGAAGCCGGAAGGAAAAGAA GAGAGAAAAGGGAAAGGAGAGAACCAAGGAAAAAAGGBACCB A GAGGGGGGCCACGCCGGGAGAGGGGAGGGGAGAAAAAAGAA A A A G A GAA A $A \operatorname{A} A A G G G G C C A A G G G G G G G G C C G G T T G G G A A A A$ G G G A A A A A C G G G G A A C A A A A A G G A A A A A A G GCC GAAA G G G G A G GCAAAAGGAAAACCACGAGGAAAGGACCGGGGAAGGGGCCA A C CA A G G A C G G A A A A A A G G G A A A A A G G C C A A A A A A C A G A GAC AAGCAGGGAAAGGGGCCAAAAGGGGAAGGAAAAAAAGAAAAC CAAGGAAAAAAGGGGCCAAAAGGAAAAGAGATAACAGAACAG $A G C A A G A G A A G A G A A G G G G G G A A A G G G A A G G A A G G A A A A G A A$ C GAGGTAAGTTCAAAGGGGGGAAAAACAAGAAAAACCBAGAA GAAAGGAAGGAGACCGGGAAAGGAGCCGGAAAACCAAAAAAA
 AAGGGGGGGAAGGGGAACCGGCACCCAAGAGAAAAAGAAGGC AAACCGCCACAAAAAAGAAAGAAGGAACCAAGAAAAAAGGAA $A C C A A A A A G A A G A A C G G A G G G G A G G G A A A A G G A G G A G G G G G C$ A G G G G G G A A A A C CAA $A \operatorname{AGGAAGGAAGAGAGAAAAGGCCAAGBG}$ GAAGAGACAGAGAGGGGAAAACCGGAGGGCCGAAGGAAAGAA AA $A G A A A A G A G T A A G G G C A A G G G G G C A A T G G A A A A A G A A G A C$

AAAAGGGAAAAAAAAAAGGGGAAGGAAGAGGAAGGGGAGAAG A A A A A GAGGCCGAGGGGAGCAGAAACCAAAAAAAAAAAAGBA GAACGGGAAGGACAAAGCGACGGAGCAAGAAGGCCAGACGAA AGAACCCGGAAGAAAGGAAAAAAAACCAAAAAGAGGGGACAA A G G G G G G T TAA A G G G G G GAAA $A \operatorname{AGGAGGGGGAGGGAAAAAAAA}$ GAAAAAAGGGAAGGGGGGGAAGGAGAGAGCAAGGGGAGGGGG GAGGGGGAAGGAAGAAAGGAAAAAAAGAACCGGGCAGAAGAA G G G GAGGGGAGGGGGAACCGGGGGGAAGGAAAAAAGAGACCA
 $C G G C C A A A A A A G G A A C C A A G G G G A A G G C C G A G G G G A A G G G A A$ AAACCAGAGGGAGGAAAAAAAGACCAAGGGGCCCCGAGAAAG A A A G A A G A T C A GAA A G GCC G G G GAAAC GAAAGGGGCAA GAAA A A G G A G G A G G G A G G A G A G G A G T A A A A CA $\mathcal{A} G G G A A A G A C C G G G$ GAGAGAGGGGGGAAAAGGGAAAAAAGGACGGACAAAACACAA AAAGAAAAAGGGCAAAAAAAAAAGGGGGACCAAACAAAAGBA A G GAAAAGGGGGGAACAAAGGGGAGAGGAAGAAAGCCGAAGA A G G GA GAA A A ACCAGAAAAAACCGGAGAGAAAACCGGGGGGG GAGAAAGACAAAGGAAAAGAAGAAAAAGGCCAAGGGGAAGGG AAGAGAAGACAGGAAGACCAGAAGGCCACGAGAGGACGAGAA G G GAGGAGAGACCAGCCGAGGAACCCCCCGGGGAACCGACAG G GAAGAAGGAAGAAGGAAAAAGGAAGGAAGGGAGAGGGAAC G G G GAACAGAGACCCAGGGAAAGGAAACACGGCCAAAAAAAGAA A G G A A A A A A A A A A A GAA $A \operatorname{GGGGC} C G G A A G G G A A A A A G G G G G G G$ GAAAGGGCCCACCACGGCAGGGGAAAAAGAAAGGAGAAAAAG
 A G G A A C C G G A A A A C C G G G G G G G G G G A G G G A A G G C C G G A G C C G GAAGGTAGGGGCAAAGGAAGGGGCCAAGGAAGAGAGGCAGGG $G C C A A A G A G G G G A G A C A G A A C A G A G G A A C A G G G A G G G G G G G G$ G G G G A G G G G G A G G G G A G G G T T G G A T GAGGAAAAAAAACACAA AAAGGGGAAAAAGCAGAAAAGGGAGAACCGGAAGGAAAAGAG G GAAGCAAGGAGGAAAAGGCCAAAGAGAGAGCCGGGAAGAAG GAAAAGGGATTAAAAGGAAAAGGAGAGGGGGAGAGAGAGAAA G GAGGGAGGCCGACCGAGGAAAAAAGGCCGGCGAAAAGAAAC
 A G G A A G A G G G G G G G A A G C A G G G G G A A G C A C C G A G G G A G G G G G GACAAAAGGAAGGGGAAGAAACCAAAAGAGGAAGGACA GAGA A G G G G A A G G G G G G A A A A A A A A A A C C GAGAA G G GA G GA GAA G C A G G GAA A A A A A A A A A G GAGGACCGGGGCAAGGAAGCCCCGGG GCGGAAAAAAAGGGGGGGGTAGAGGCCGAAAAAGAGGEGAAG GAACAAGGAGGAAGGAGAGCCAGAGGGAAGGCCGACCCAGEG GAATTGGGGAAGGGGCCAAAAGAGAAGAGGAAGAGAAGGGGG G G G A A A A A G A A G G A A G G A A G G A A G GAAAACA A A G G GAA GA G A TAGGGAGAAGGGGAAAAAAGGGGAAAAAACCGGGGAAGAAAA $A G G G G G G A A G G G G C C G G G G G A G G A A A A G G A A C C A A C C A A G G G$ G G G A A $\mathcal{A} G \operatorname{GGG} G \mathrm{G} A \mathrm{G} A A A A A G G G G A A G G G G G G G G A A A A A A G G G G C$
 G G G A G A G C G G A A A A A A A C CAACCAGGGAAAAAAAGAGA GACA A GAAAAAGGGGAAGAAGAAGAAGGAAAAAAGAAAGAAGAGAA AAA A G G GAGGAAGGGGAGAGAAAAAAGAAGGGGGGGGAAGAA A A G A G C A G G A G GAA $A \operatorname{GGGACAAAGGAGGAAAAAGGGAAAGGGT}$ TAAAAACGAAGATAAAGACCGTAGAGGAAGGAAAAAAAGGBA G G G G A G G G G G G G G A A A A A A GGCCCAAAGAAGGAAAGGGAAA $A$ GTTAACACCGGGGAATTGGAAAGACAGGGAAGGGGGGGAAAG AGGAGAAGAAAAAGGAACCAGAAAAGGAAAAGAGAGGAAGAC CAAACGGGAGAAAAGGAAAGGAAGGAAGAACAGTTGGAGGGA AAAGAGAGAGGGGAGGAGAAGAAAAGAGGGAAGAAAAGAGAC CAACCGGACGAGGGAGGAACAGGAAGGCCAACCAGAAAATAA GAAGGAGAAAGGGAAAGTTCCAAAGAAGAAAAAGGAAAAAGA G G G A A A A A A A A A G GAAGCCCCAAAAGGCCAGGATAAAAGGGA

A G A A A G G A G G G G G G G G G A A G G A A A A G G G G G G G G G G C C G A G $G A$ A A GA $\operatorname{A} A A G G G G A A C C G G C C G A A G A A G G A G G G A G A A A A A A G G C$ CAACCAAGGAGAGCCCCGGGGGAAAAAAAAAGGAGAAGAAGG AAACCCAAGAGAGGAGGTTACGAGAGGACACCAAGCAAGACG GAGGGCCCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGG GAAAAGGGAGGAACCAGGAAGCAAGAAAAGAGAAGGGAGCAG AA $A G A A G G G C C A A A A A A G G G A A C A G G G G G G G G G A A G G A A A A C$ C G GCCGGGGAAAGGGAGAGCCGGCCAAAAGGGGCAGAAAAAA A A A G A A A G G C C G G G G G G G G A G A A A GAGAGGAAGACAACACAA $A C C A A A A G G G G G G C C G G G G G G A A C C G G G A A G G G G G A G A G G G C$ A G G G G GAA A ACAGAACAAGAAAAGGACGGCCGAAAGGAAAAC C G GAA $A \operatorname{GAAA} G G G G A A A A G G A A A A A C A G C A G A A C A G G G G A G G G$ GGACCAAGGAAAGGGAAGGAGGGGAGGCCAGAGAAGGACGAG GAAGGGGGGAGCAGGGGGAGGCCAGACGGCCAGGGAAGAGAA AAAGGGAGGGGCCGGACAGCCAAGAGAAACCGAGACAGAGAC CACGGAAGGCAGGCAGGGGAAACAGGGAGCAACGGGGAGGGG GAGGAAGAGAGAGGGAACCGGGGGAAAGGAAAAAAGGACAAA A A A A A A G A A A G G A A A G G A G G G G G C C T T G G G G A A G A G G G G A G G GAACCAAAAAGTACAAAGGGGAACACCCCCCAAAACACCGGG GAAACAAGGGGGAAAAAGGAGAGCCAAAACCGGGGGGGAAAC $C C C G G A A G A G A C C A A A A G G G A G A A A A A G G A A C C G A A A G A A G A$
 G GAA A A G G G G A G GAA $A \operatorname{AGGGCACCAGAGGAAGGAGGAGGAAAA}$ GAGAACCGGGGCAAGGGGGAGAGAAGGAAGGGGGGAGAAAAA G G GCCCCGAGAGAGAAAAAGGAACCGGGGAACCCCAA
G G T T G GAAAAAAGGAAAAAAAAAAAAAAAGCGGAA GAAAAG GACAAAAAACGCCAGAGAGAAAGCGGGGGAACCCCAAGAAGC $A G G A C G G G G G G A G G A G G A A A G G G C C G G A A G G A G G G G A G A A G B$ GAGGGAAGAGGCCGGGACAGAAAGGACAAAAGGCAAAACGBA GAGGGGGAGAGAGAGAAAGGGCCAGACGGCACCGGGAAGACC A G GAGGGAAAAAGCAGAGAAGGAGGAGAAAAGGCCGGCAGAG GACAGAAGGAAGGGGGAAGGGGAAAGGGGGGGGGGGGGAGGG G G GCCAAGGGGGAACTTCCGGTTAAAAAAAAGAGGGAAAAAG G GA A G G G A G G A G G A GAA $A \operatorname{GGG} G A A A G G A C A A G A G G G A C G G G G G$
 GAAGGAAAACCAAGGAAGGCCGGAGAAAAGGAAAAGGCAAAAA G GAGAAAGAGAAGAGGGAACAGGCAAAAAAGAGGAGAGGCCA AAACCAAAGGGGGGAGAAAGGAGGGGACAGAGGGGAGAAAAG GAAAAAAAGAGGAAGACGGCCAGGGACGGAACCAGAGAAGAA A A G GAGGGAGGAGGGCCAAAGAGAGAGAAAGGAA GAAAAAAG AAAGGCCTTAAAAGGAAAGGAGGGGAAACAAAGGGAAAAGGG G GAGGAGGAAAAAAGAAAAGGGGAAAAAAAAGGGGGAAAGBA A A A A A A A G GAAGGAAGGAACCGGAACCGGAAAAAAAAAACAA AAACCCCAAAAAAAAAAAAAAGGAAGGGGAAAAGGGGGGGGA A G G A A G G G GAACCGGGGGGAAGGGGGGAAGGAAAAAAAAAAA A G G G G A A A A A A G G G GAAAAAAAGGAAAAGGAAAAAAGGAAAAA A G G G G A A A A A A A A A A A A $\mathcal{A} G G G G G A A G G A A G G G G G G A A A A G A A$ A A A G G G G G G G GAACAGAGGAAGGAAGGAACAGGGGGAAACAG G G GAACCGGAGATAAGGAAGGGAAAGGGGGGAAGGAGGAGAG GAGAGAAAGGGACGACCAAGGGGCCCCCCAAAACCCCAAACG GAAAGAGAGGAAGGGGGAGAAGGCAAAGAAAGGGGGAAGGAA GAAGGGACCGGGGAAAGGGAGAGAGGGGGAAAGACGGAGGGG
 CAAAACCAAAAGGGACAAACCAAGGGAGGAGGGAAGGAGGGA GACAAGGAAGCAAAAGGGAAGGGAAGAAAGGAAAGGAAGGAA A A GAA A GCCAAGGCCCCGGGGAAGGAAAAAGGAAAGAGACAC CAAAAAAAGAGCAGAGAGGGGGGAGGGAAGGGGAAAAAAGAC C C C A G G G A A G A G GAGAA G G G G A GGGGGCCAGAAAAAAAA G G A AAAGGAGCAAAAAGGCCCCGGGGCCAACCGGCCAGGAAAAAA

GAAGGAAAAGGAAGGAAGGGGGGGGAAAAGGGGCCGGCGAGA GCCAAACAGAAGGAGGGAAAAGAAGAGACAGGAAAAACAGGA G G G C G G G G GAGGGGGAGTTGGGGGAAAAAGGAAGGAACAAAA ACAAAGGAAGGAAAAAAGAGGACCCCCGGAAGGAAAAAGAAA GAAGGAGGGATAGGGGACCGGAAAGCCCCAAGGGGCCGGGAG G G GAAAACCAAAGGAGACAGGAAAAGAGATAAAGAAAAGGCA AACGGAGCCAACCAAAAAACCAAGGAGCCAGGGGGGGAAAAA A A A G GAAG GAAAACCGAAAAAGGAGCACCCCAGCCCCCXAGC C G G A A A A A A G G T T A A G G G G C C G G A A G A A G G A A A G A A A G G G G G ACAGGAAAAGGAAAAAGATAGAAAAGGCCAAGGGGAAGAGGA
 AAAGGAAAAAGAGGGAAGAAAACAGCAAGGGAAGAAAAAGBA G GAAGGAGAAAGAAAAAGAAAAAAAGGGAGAAAAAGAAAAAA $A G A G G G A A A G A A A G G G G G G G G A A G G A A G G A C G A A G G G G A A A G$ GACGGAAGGAAACACGGAGGAAGGAAAAAAAAGGGCAAAGGA A A GAGATGGAAGGGGGAAAAAGGAAAAAACGGGAAAAAAGAC CAAAACCAAGGCAGGGGCCAGAAGGCCGGAAGGGGGAAAGAG GCAGGCCAAAGAAGGGGAAGAGGAAAAAACAGGCAGGGAAAA GAAACGGGGAGGGACCCGGGGGAAAGGCCAAAGCCAAGAGAA A G G A A C C T T G G G G C C G G A G G G G G G A A G A G A G G A A G C A G A A A $G$ GACGGGGAAGGGGGAAAGGTAAGGAAAAAGGGGAAGAGGGGA A GAGAGAAAAAGAAGAAGGGGAACCAAGGGAAGGAAGAAGAA G G G G G G G A A G G G G A A G G C C A G G G C A G G GAGAGAGGGGCAAAC A A GACGGAAGGAAAAGGAAAAGGAGTTAAAGCCAAGAAAAAA A G G A A A A A GAACCAAAGCAAAAGGGAGCCGGAGCCTTCAAGG A A G G G GAAAAACGACGGGGCAGAGGAAGGAAAAA GAAGGGGT TGGGGAAAAAACCGGAACCGGAAGACCAAGAAGAAAGGAGGG G G G C C T T G G G G A G G A A C G G G G A A G GA G A G A A A A G G G G G G G A A A A A A A G G G G G G G A G A C A GAGGGACAACGAGGGAA GAGAAGAC CAACCAAGGGGGGAAGGGGAAGGGGGGGAGGAAAGGGGGGGA A A ACC GAGAAC GAACAGAAGGAAGAAAGAAACCGGAAAAA GA ACAGGAAGAAAACGGGGGAGGGGAAAAAAAAAGAACCAAGAA
 C G G G GAA G GAACCAATXCCGGGGAAGGAACCCCCCGAGAGAC
 A G G A A A A A A C C G G A A C A A G GAA $A$ A A A G GAA $\mathcal{A} G G G A G C A A G G G A$ G G GAA $A \operatorname{GA} A A A G A G G A A A G A A G G G G G A A A G G G G A A G G G A A A G$ G G A A A G G G G G G G G G G G A G G G G A A A A A A A A A A G GAAAAAA A G A G G G A A A A A A A G A G G G A G G G G G A A A A A A A A G G A G G G G G G G G A G T T G G A A T T G GA G G G A A G G A A GAAAAA $A$ A GAACCAAAA G G G G C C A AAAGGAACCGGAAAAATGAAAGGAAAAAAAGAAGAAGGAAAG GAGAAAAGGAAAACGGGTTCAAGAGACAGTACCAGGAAAA GA GAGAAGACAAAGGAACCAAAAAACCAAGAAAACBAAGGGGGA G G GAACCAACAGACAGGGGAAGAAAAAAAGGGGAAGGAGACC C G G G GCGAAAAGGGGACAACGGGAGGGGGAACAGAGGGAAAG G G A A A G G G G G A G G A A G G GA G G A A C C G GAGAGCACAA GTXCCG GACGACCAAGAAGGAAAAAAAAAAGAGAAAACAGAACGGGGA A A A A A G G G G G G A GCAAAGGAATAAAGGCAAAGGAAAAAATTG ACCAGCCGGGGAAAAAAGGAAGGAAAAAGAAAAGGAAGAGGA A A GCCAAAGGGAGGGGGCCCAAGGAAACCGGAAAGCCCCGGG GAGGAACAGGAGGAATAAGAGGGGAAAGGGAGGGGAAAAGGG GA GAGAGA GAAAGTAAAAGGAAGGGCAAGCCAAGGGGCCGGA TAGGGAGCCGGGGGACCGAACCAGGGGCACAAACCAAGAAAT TGAAAAAGGCAGACAAGGAAGGGAGAAAAGAGAAAGGGGAGA G G G G GAA $A \operatorname{G} G A A G G A A A A A C C G A C A G G A A G G A A A A A A A G A A A$

 A A A A A C C A G A G G G A G A A GAAG GAAACCAACCGGTTGGAAG G C A G G A A A A A A G GAACCAAAAAGGGGGAAAAAAGGGGAAGGGGA

A G GAAGGGACCGGAGGAAGGAGAACCCACGGCATTGGGAAGA A GAA ACAGAAGCAGGGGAACCGGGGGGAAGGGGCAGGGAAGA A A A C C A A G GAA A GAGGGAAAGCCCAGGGAGAAGAGAGGACCA AAAAAGGCCAAAAAAAAACGACACCGGGGCCGGCCAAGAAAA AAACCGGGGGGGAAACCGGAACCGGGGGGAGGGGGGAGGAAG GC G G A A G G G A A C G G G C C G G A A A A C C G G TA GAA A A GCC G G G A G A G G A A G A A A G G G G G G G G G G A C A G A G C A A A GAGA A A A A A A G G A GAAAAAAGGCCGGAGGAGGAAAGGGGGAAGGCCAGGGGAAAA A A A G G A C G A A A G G G G A C G A A G G C G G A A G G A G G G G G A A A A G G A A G G G GAAGGCCGGGGAGAAAGAAGAGGACAAAAAGGGCCGGA G GAGGAACATTAAAAAACCGGGAAAAAGGGAAGCCAAAAGBA A A A A A A ACCCCGACCAAGGGAAGGAAAGGGAACCCGGAAGGA A G G A C A A A GAACAACAGAAAGACGGAAGAGAAGCCCAAAGBA C A G A A A A A A G G ACA G C CAAAAGGCCGGAAGGAGAA GAGGGGA A G G G GAAGGCATAAGAGGAAAAAAAAAAACCAA G GAAAGGCCG G G GCCGGAAGGGGGGAAGGCCGGGGAAGGAACCAAAAAAAAA A A A A A G G A A A A G G G GCCGGAAAACCGGAAGGGGAATTGAAAA $A C C C C G G C C A G G A G A G A A C A A A A G G A A A A A G G A A A A A A A G A G$ $A G G G G T T A A A A A A G G G G A A G G G G A A A A G G G G A A G G C C A A G G G$ A G G G G G G G G G A C C G G A A C C A GACGGAAGGAAGGCC G GAA G G A ACCGGAAAAGGAGAGGGGGAAAAAGCCGGAGAAGGAAAAAAA AAAAAGGGATTCAAAAAAAGAAGGGAGAAAAACATAAAACCG GAAAAAAGAAAGAAGAGACCCGGTTAGAAAAAAAAGGGGGCA
 TAA $A$ A A $A$ A A $\mathcal{A} A G G A A G G G A A A G G G G A A G G A A T T G G A A$
GAAAGGAAGACCGGAGGAAAGGAGGGGGGAACAGAGAACCA AAGCCGAGGCCGACCGAAGGGAAGGGGAACACAGAGGGGGAG G G G G G A G G GAAAAA A $A$ G GAAAA $A$ A GAAGGAAAAAAGGAAAAAAA G G GCCCAAGGGAAAAAGCCGAGGCCAAAAGGCCGGGAAATTG GAGCGAAGGCAAAAAACAACACCAAGGGGAACGAGAACAAAT TAAAAACAAGAAGAAGAAGAAAAGAAAAAGGGGGGGGGACAG GAGAAGAGGGAAAGGAAGGGAAAGAAGGGGGAAGAGAAAGGG GAGCCAAGGGGGGGAAACCGGAGACAGGAAGAGGAGGGGGGG $A G A C A G G A A A A G G A A G G A A G G G A G G A C G G G G A G T T A A G A A A G$ GAAGGGGAAGGGAAGGAAAGGACAAGGGGGGGGAAAAAAGAG G G GAACCGGAAGGGGGGAAAGCCAAAGAAGGAAAAGGGGGGA A GACCAAAAAAGGAAGAAAGGGAAAGAAAGGAAAAGGAGCAG GAAGGAGACGGGGCCAGGGCAAAGGAGAAGGGGAAAGAAAGAA

 G G G G G A A A GACGGAAGGGGGAAGGGGAAAGGGGAAAAA GAGA C G G G A G G G G A A G A G A G G A A A A A A A G G GAA CA A A A A A T G G A G G AAAGGAAGGAAGGAGAAAAAAAAGGGGAGCGAGCCTTGAGGG G G G G G A G A A G G G A G A C C G GAA G G C C G GAACCGGGGAA GAAA G A A A GAGGCCGGGAACGAGAAAAAGGCAATCCAAGGAACAAAA C G G A G A G G A A CAG GAGGGGCCAAAGAAGGGGCAGAAAGAAAC C T TAA A G A A G G A A $\mathcal{A} G G G G G G G G G G G A A G G G A A C A A A A G A A A G$ AAACCCCGAAAGGGGAAAAAGAGAACAAAAAAAGGGACAGAG AACCAGGGAAAGGGGAACCAAGGAAGGGGGGGGAAAAGGGGG GAAAAAAGGAAAAGGAACCAAGGAACCGGAAGGCCAACAAAG GAAGGGGCCGGCCAACCAAAAAAGGCCGGGGGGGGAACAAAG GCCAAGGCCAAAAGGAAAAGGCCAAAAGGAAAACCGGGGGGA A A A G G A A A A G G A A G G A A A A $\mathcal{A} G A A \operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A G G G G G G G G G G G$ GAAGGAAGGCCAACCGGGGGGGGAAAACCAAGGGGGGAAGGG GAAGGAAAAAAAAAAGGAAAAAAGGGGAAAAGGAACCCCGAA $A C \subset A A A A G G G G A A A A G G G G A A G G A A G G G G G G A A G G A A C A A A A$ $A \subset C G G G G G G A A A A G G G G A A A A G G A A A A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGGC

CAAGGGGAAGGGGAAAAAAGGGGGGAAGGAAGGAAAAGAAAA ACCAAAAAAAAAAGGCCGGAAAAAAGGCCGGGGAAAAAAAAG GAAAACCGGGGGGGGAAAAGGAAAAAAGGGGAAAAGGGAAAA A A A G G G G G GCC G G A A C C G G G G G G A A G G G GC C G G A A G G G G G G G
 A A A A G A A G GAAGGCGGAACACAGGAGAGGAAGGCCAAAAACA
 $A C C G G G G A G A G G A A A A A G G T T G G A A G A A G G A A A A G A C A A G G A$ AAAAGGGCCCCAGAAGAGGAAGGGGGGCAGGAAACBAAAGAA A GAGGAGAGGAGAGGGAGGAGAAGGAAAGCAGAGGGGGACAA GAGAAGAAAGGGAGAGGGGGGAGAAGGAACAAAGGGGAGGBA A A A A G A G G G G G A A C C G G A G A G G G G G A A G G C C G G T T G G A A A C A A A A A A GAA $A \operatorname{G} \operatorname{A} A A A G G G A G G A A G G A A G G G G G A G G C A C A G A C A A$ GA $\operatorname{G} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A A A G G A G G G G G A A G A G G G G G G G C C A G C C C$ C GAGAAAGGAGGAGGCAGGAGAAAAAAAAAAGGAGAGGACCG G GAAAA AA GAAGAAACCAAGAAGGAGAGAAAAAAAAAAACA G
 AAACCGAAGAAGGAAAAGGGAAAAGAACCAAGGCCAAGAAAA AACAAAAAACAAAGAGGAAGAGGGGAGAAGAGGGAAAAAAGAG G GAAACCAGACGAGGACGGACGGAAAGAAGGAGAAGAAAAGB AAGGGGACCAAGGAGAAGAGACCAAGGAAAGAGGAAAAGAGC C GAGAAAGAAAGAAGTAGGAGGGACACGGGAGAGGAGGAAAG GAGAGCCAGGAAAAAAGGGGGAAAGAACAGGAAAGGGGAGAA A G G G G A A A A A A A G A G A A G A A A G A A A G G CA G GAA $A$ A A G G G G G A
 A G GA $\operatorname{A}$ GACAAACCCCGGGAGGAGAGGAAAGACCTTAAGGCCA A G G G G G GACAA $A \operatorname{A} A A A G A A A G G A A G G A A G G G G A A A A A A G G A A G$ G G A A A G G G G G G A A G G C C G G A A C C G G G G G G A G G G G G A A G G G G G GAATAGGAGAGAAAACCGAAGGGAACCAAAAAACCAGAGAAA A A A A A A A A A A A A A A A GAAGGGGAACAAAAAAGGCAAGAAGAG
 AAGAGATAGAAAAGGGGAAAAAAGGAGGAATAACCAACCCCA CAA A A G G G G G G G G A G G G G G C C A A A A A G GAGGAAA G G C C C G A A A A C G G A A G G A G GA G G A A G A A GAGAAAGAGAGGGAGGAAAAA G G G A A A A ATACCAAAAACGGAAAACCGAAAAGACCCGCGACCB G G G A A A G A A A A G G G G G GCC G A C C G A A GAAA A A A GA G G A A G G A AAGACAGAAGGAGAACCGGAAGAAAAGAAAAGAAGAAGAAGA AA $A G A G G G A A G A G G A G A G A A G A A A A A G A A C C A A G G A G G A A G A$ A A GCGAAGGGGGGCCGGGAAAGGGGCGAACAGGCACCGAAGA GAGGGAAAAAGGGCCAAAAGAAAGAAACAAAAGCAAAA GAAA A A A A A A A A G G G A G G G G GAGGAGGAGAGAAAAGGGGCCAAA G G A G G G A A A A G A A G A G G A A A A G G G G A A G G G G G A G A G A A G G G A A $G$ G GAAGAAGGGGAGAGAGAAGAAAAAAGAAAAAAGAAACAAG G G G G A A A A G G A G G G A G G G G G G A G A A T G G A A C C A A G G G G G G G G G GAACCAAGAAGCAGCAGGGCCAGCCAAGGAAAGGGGAAAAAA A A GAGCCAAAAACGGAAGGGGCAGGGAGAGACACCAAGGGGG GAAAATTGGAAGGAAGGGGGAAGAGAGGAGGGGAGACAAGAA G G G C A G G G G G G G G A A A G A A A G G G G GAGAAAGGGCCAAA G G G C C G GAAA A A G G GAAA $A \operatorname{A} G A G G G A A A A G G G G G A A A A C C A G C A G G G$ A A A G G A $\mathcal{A} G G G G G G G G G G A G A G A T A A G G G A G A C C A A G A C A G G G$ G GAAGAGGAAGGAAGCAAAAAAGGAAAGGAAAGAAGAAACCT TAATTGGAAGGGAGACAAGGAGAAAAAAGAGAGGGGGAAAAAG A A A G G A G A G A G A G G A CA $A$ A A A A A A CAGGGGCCGGAACCGGGGT TAAGGGGAAAACCAAAACCAGGGGGAAAAAAGGCAGGAAGAC AAGAAGGAAAGAGAAGGCCACAACCGAAAAGTAGGAAGAAAG G G GCCAAAAGGAAAACCAAGGGGAATTGGCCGGCCGAAACCG GAAAAGGGGAGCCGGAAAAAGGAAGCCAGAGGGGAAAACGGG GAGGGAGAGAAAGGAAAAGAGGGGGAAAGAAAAATAAAGAGA $A G G A A G G G G A A A A A A G G G G A A A A A A G A A A A G A G G G C A A A A C A$

A GAGGGGAAAGGGAGAAGGAAAAAAAATAGGAACCGGGAGAG CCCGACCAGGGAAAAAAAAAAGGAAAACCGGGGAAAAAAAAC
 GAAGGAAAAGGAAGGGGGGGGCCAAGGAAAAAAGGAAGGCCG GAAGGAAGGGAAGGCAGAAGAAAGGTTAAAAAGAGACAGGBA GCAGGAGAAAAAAAAGGCCAGGGAAGGGGAAAGCGGGAAAAC C C C A A $\mathcal{A} G G G G A A G A G G G G G A A G G G G G G G G A C G A A A A A G A A A G$ G G G A A G A A GAAAAGAAAGGCAGGGAAGACGGGGGGAAGAAGAG G GACCGCAAAGGGAAGAGGAACAAGAAAAGGAGGGAGCAGAA GAAAGGAGAAAGAGAGGGGGGGGGGAAGGAAACAAGGCAGGG GACGACAAGCCGGGGAAAAAAGACCAAGGGGAAAAAAAAGGG GTTAGAAAACAAACCACAATACCAAGAGGAGGAGACAGGGGA $A C C G A A G G G A A G G G A G A T T A C C C A A A G G G G G A G G A G B A G G G G$ ACCGGAACAAAAACCGGAGAACCAAGGGGAACAGGGGGGGGG $G C C C C A A G A G A A G C C G G T T G G G G A G A G A G G A G A G G A A G G A G G$ A GACAAAGACCGAGAAAGGGGAGAAGAAAAACGGGGGGGGGG A G GAACCAAAGACGACAAAAGGGCCGGGGACGAABACGAGGG $A C C G A G G G G A A G G C A A A A A A A A A A A G G A A A A G G A A A G G G C C G$ AAAAACCAAGGAGAAAGAGACGGAGGGGGAAAATTAGGAAAA G GAAAGGAAAGAGAGAAAAGGAACCAAGAGGAAGAGAACAAA G G G G GAAGGAGAAGAAAAAAGAGACTTAAGGAAAAAAGAAAG GAA $A$ AA A A A A A G GAACCCCGGGGAACCAAAGAA GGGGGGGGA GAAA A A G G G GAAAAAGAAAGAGGAACCAGAAGGGGGGGGGGA G G G A A A C G A A A G G G GCCGAGGCCGAGAACGGCCCCAAGAAAG GAAAGGGTAACGGTTCCGGCCAAGGGGGGAAGAAGGG
GAGGAAAAAAGAAACCGGGGGGGGGAGGAGAAGGGGAGCAG G GAA A GAAAAGAACGGGGGAAGGAAGAAGAAAAGGAAAGAAG GAAGAGGAAAGGGAACAGAGAGAAGAGGGGACCGAAGGAAGAG GAGCCGAAAAAGGCAGGGGGGAGCCCAGGAAGAGGAAACAAA AAAGGGATTGAAAGGAAGGGGAAGAGAAGCCAGAGGGCAGAAA
 GCAATAGAAGGAGAAGAAAAGAGGAGGGGGGGGCCAAGGCCG A G GA $\operatorname{ACC} C \mathrm{C}$ AGGAAAAAGGGGGAAAGAAAGACCCAAGGGAAAA A GACCAAAAAGAAAAGGGGGGGGAGAGAGGAAGGGGGCCBGA
 A A G G A A G G GAA A $A \operatorname{A} G \mathrm{G} A \mathrm{G} A A G A G G A A G A G G G G G G A A A A A A G G G$ G G GAA A GAAAA $A$ A $A$ GAGGAAGGAAAAGGAAGGAAAAGGACA GA GAAGGAACCGGAAAACCAGAAGGAAAGGGGGAGAAACGGGGG $G C C A G A A G G G A C A A A G A A G A G A A G A A G G G A A A A A A G A A A A A G$ $A A C A C C C G G G G G G T T G G A A G G G G C A A G A A G G A G G G G G G G G A A$ C G G G G G G A A G G G G G G G GAAAGCCAGAAAACCAAAAAGA GAAA A A A A A A GAA $A \operatorname{GAA} A G G C C G G A A A A A G G G G G G G A G A A A G B A G A A$ AAGCCCCAGAACAGGAAGGGAGAGGACAAGGAGCCGGAAGGG
 GACGGAGGGGAACAGAATTAAAAGGGGGGCCGGAAGAAAGGG G G G G G A A A A C C C C G A G G G A G G G A G G A GAAA A G G A A C C A A G G G GACCCGGAAGAACGGGAGGGGACGGGGCAGAGGAGGGGGGCC C G G G G G G G GCCAAACAGCAAAGGGGAAACAGAA GGGGGGAGG $G C A A A G G A G G A G A G G G G G G A G A G A G G G A G A A A A G A A G A C C C G$ GAAGGGGAACCCCGGGGGGCAAAGAGGAGAAGGAAGAAGABA A G G G G A A A A C C G G A GAGGGGACCGGCCAGCCAAGGAAAAAC G GAGAGGGAACCGGGGGGCCAGGGAAGGGACXAAGGCCGGGGG G G G G G A A A G A G G G C C A G G A G G C A A C G G G G G G G G A G G G A G A G A G G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} A A \operatorname{A} A \mathrm{G} G A A A A A A A A A G G G G G G A A G G A A G G G G G G G$ GAAAAGAACGGAAGGCCGAAAAAGAACAGAAGAGAAGAGGGG GACAAAAGGAGAACCAAAAAGGGAGAAAAGGGGGGGAAGGGG GAGGGGGGGTTAGAGACGGGGAAAACCAAGGAAAGCAGAAAA $G G G A A A G G G G G A A A A A A A A G G G G G G G G C C G G G G T A A A G G G G A$ GAGGGGCAAGGAGAGGGCCGGAAGGAGGGCCGGGAAACCGGA

GAGGGAAACAAAAGGAAAGGGAAGGGGGGAAAGGAGGGAAGT
 A G GAA A A A $A \operatorname{A} A G \operatorname{A} A G G \operatorname{GAACGGGGGGAAAAAGGGAAGACAAAC}$ C G G G GAAGAGAAAAGGGAGCCAAGGCCGAGAGAAGGGAAAAA AAAACGGAGGGGGAAAGGGCAAACAAAAAAGGGAAAGACAAA TCCAGAGCAGGAGAAGAAAGAAAGGGGGACGAAAACCGGGGG G G G G GCACCAAAACCAAAAGGAAAGCCAGCAGGAAAAAGTAA CAGAGAAAGAAAGAAGAACGGAGAAAACGCCCCAAGGGAGGA C G A G A G GACCA $\mathcal{A} G G G A G G G G G G G A G G G A C G G A A A A A A G G A G A$ GCCAGAAAAGAGGAAGAAAAAAGGGACAAAGGGAGGAGGAGG A A A A A GAAAAAAAGGGGGAGACAGGAAGGCCGGAAAAGGGGG GAAA $A$ A A G ACCGAAACCAAAAACAAAAAAGGGGGGGGGGGAG G G GAGGGCCCCAAAAGGAAAAGAAAGACAGGGGGGGGGAAAA AGGCCAGAAAAAGAAGAGAAAGGACAGGGAAAAAAAAAAAAC AAAGGAAAGGAGGGGAACCGGAAGGAGAGAGGAGGGGCAAGG GACGAAGAAAACCACGAACCGGAAAGGAGGAAACCAAGAGAA A GAAAAACAGGGAGGGGACCCCAGAAAGGGGGGGGAAAAAAG G G G A A G G G G G G A G G G G A GAATGGGGGAAAAAAAAAGAAAAAC CAAGGGAAGGGGGGAATAAAAAAGGAAAACCGGAGCCACAAA A AC G G A A G G A A A A $\mathcal{A} G G G A A G G G G G G G G A G A A A A G A C A B A C X G$ G GAAAAAGGGGGGGGGGAAGGGGGGAGGGCCGGAAGAGGAGG A A GAGAGAGAGAGGAAGCGGGAAGAGCAGAGAAAGGAACAAA AACGAGGCCCCGGAGAACCAAGGAGAGGGGGGCAAGGAAGGG GAAA A A A $A \operatorname{AGG} \operatorname{G} A A G G A G A G G G A A A A G G A A C C A A G G G G C C G G G$ G G GCAGAAAAAGGGGCCAAGGAGAAAAAACCGGAACCAGAAG GAAGAAGCGCAGGAACACACCAAGGAAAGAGAGGAGAAACCC $C \subset C G A A A A A G G A A A A G G G A A G G G A A A A G G A G G G A A G A C A G A A$ A A A G GACAGAAGAACAGAGACAAGGAAGGCCGGAAGAAAAAA G GAGGACGGGACCAGGGGAAACCGGGGGGGCGGAAAACAAAA AAAAAAAAGGGAGAGAAGGAAAAGGAAAGGAAAAGAACAAAA A G GAGCCAACCAGAAGGAAAAAAGGGGAAAAAGGGAAGAGAA CAGAAAAAAAAGAGGAGCAACAGCCGGGGGAATAAAAAAAGC CAGAAGGAGCCCCAGAGCCGGAAGGGAGAACAAAAAGACGGG GAAAAAAACGGGAAAGGAGGAAAAAGGAGACGGAGAGGAAAG GAAAAGAGAGGGGGGGGGGGAGAAACAGGAAGGGGGGGAAAA A G G G GAAGGCCAAAACCAACCAACCCCGGCCAAGGAAAAAAG G G GAAAAGGAACCCCAAAAAAGGGGAAAAAAAGAAAAGAGGG G G GAA T T G G GACC G G G G G G G GAAGGGGAAAGAGCCAA G GAAC A GAGAAACCGGAGAGGAGAGGAACCGGGGAAAAGGAAAAAAG
 $A C A C C A G A G G A C A G A A A A A C C A A T A A A A A C A A G G A G A A G A C G$ GAAAACCAAACAGGAAGAGAGAGAGGAACGAAACAGAGAATA GAGAAGGGGAGAGAAGAAAGAGAGGAAAAAGGAGAGAGACCA GAGAGCAATAGGGGAGGGGACGAACACAGAGACAGCAGATAG G G G G A A A A G G G G C A G G G A G A A G A GAGGAGGAAAA A A GAA A G A A G G G G GACCAAGGGAGAAAAAGGAGGGGAGAAAGAAAAAGAG AAAGAAGAAGATAAGAACAAAGAAACCAAGGGGAAGAACAAG GAAAAGGGGGGGGGGCCAGAGGAAGAAGGGGGGGGAACAAGG
 G G G A A A A G G G G G G G GAAA $A$ AAGAACCCAACAGGAAGGGCCCCG
 A GAAAAAAAGGGAGGAAAGAGGGAAGGAGCAAAAAAAAAAAG G G G C A A G G GAA $A \operatorname{G} \operatorname{A} A A A A A G G G A G A A G G G A A A A A C A A G A A A C A$ A G GAAAATTAAGGGAGGAAGGGACAGGGACAAGGGGGTTAGAA A TAGGGGAGAGAACCAAAAGGCAGGGGAAAAAAGGGGAACAG G G G G G A G G GAAGAGGAAGGGAAACGAACCAAAAAAAAAAACA C C C A G A A G G G G A A G G G G T T A A A A A A A A G G A G C C G G G G C A G G A G G G A A C G A A G G A G G GAGCAACGAAAAAAGAGAAAAAAGACGG AAAAAAAAAGGGACCAAGGAAGGAAAGAGAAAAGAGGGAAAA

G G GAGGCAGGAAAGCGAGGCGGGGAGGAACAAGGGGAGAGAG G G GA G CA G GAA $A \operatorname{GGGAAAAAGGAGACAAGGAAAACAGAGAAAG}$ G GAACGGGACCGGCCCCAGAGGGGAAGAACCAAAAAAGECCA AGGAAAACCAACAGGAAAAGGAAGGGGAGCCGAGGGGAAGGG GAAAAAATTGGGGCGAAGAAGAAGGAAAAGGGGAAAAAAGGG GAAAAGGAAAAGGAGGGGACGGGGGGGAAGGAAAAAGAGAAG GAA $A \operatorname{GAA} A A G A C C A A A A A A G G G G G G C C A G A A G G G G G A G G G G G$ G G G G G GAAGAAAAAACCGGGGAAGAGAGAGGAGGGAAAAAAC AA GAAGGCCAAGGGGAACAAAAGAGGGAAGGAAAGAGAGCAC A G G G G G GCCGGAAGGAAGGAGGAAGGGGGGGCAGAGAGAAC G GAAAAAGCAAGCCAGGGAAAAGGTTGGGGGGGGAAGGCAAGA GAAAAAGACGGAAAACCACAGAACCGGGGAAAAAGAGAAABA A A A A A A A $\mathcal{A} G G G C A A G G G G G G G G G G G C C G A G A G A G A G A A A G A A$ A A A A A A A G G A A G G A G C A A A G G G G G G G G A A A A A A A A C C G A A A C C T T G G G GCAGAAAAAGGGCGGCCAAAAGGCCAAAACCGAGGC $C G G G G G G A A A C G G A A G G A A G G G A A G A A T A C A A A G G C C C A A G A$ $A G G G G C C G G G G G G A G G G A G G G G A C A G A A C A A G G G G A G A G G A A$ GCCAAGGAAAACGAAGAGGCAAAGAAAAAAGCAAAAAAAGBA $A C C G G G G A A A G G G G G A C G G A A A G G A A G C A C G G A G A G A A A G G A$ A A A A A A G G G G G G G A A A A C C GAGAGGGACAGGAGCAGAAAA G G A GAAGAAGAAAAAGGGGGGGAGGCCAAAAAAAAAAGGGAAAG GCCGGCAGACCGAGGAAAAAGAAAGGGGGAAATAGGGCAAAC AAACCGAGAAAGGAAAATAAAAAAACCGAAGAGGAGAAAAAG A GACCAAGGAAAGGGAAAGGGGGCCCCGGCCGGAAAAGAAAG A GAACGAACCACAAAAGGGCCCCAAGGCCGGAAACAG
AA $A A A G G G A G A C C A G A G A A A G G A G A A G G G G G G G A C A G G A A A$ G G G A A G G G GAGAAGGGGCCGGCCGGAAGGAAAAGGAAAAAAG $G C C C A A A A A G A G G G G A G A A C A A G A A A C G G G G A G G G A A G A A A A$ G GAGAGGAAAACCGGAAAGGGAGACAAAGAGAAGGAAAACAA CAAAAGAAGAAAGGGGGGGAAGGGGGGACAGAAGGCAGAAGA $A C C G G C G A C G G G G A A A A A A G G G G C C G G A A G G G G A G A A G A A A G$ G GAAGGGAAGGAAAAGAAAGGGCAAGACCGGGGAAGAAAAAC CAACCAAGGCCAAGAAAGAGGGGGGAGGGAGAGGAAAAAAAC C C C A A A A A G G C G G C C G G G GCCGGGACAAAAAACAA G GAAA G G GAAGGACGGGGGGAAGGAAAAAAGGAAAGCGGAAAGGGAGAA ATAG GAAG GAAAAATCATACAGGGGAAGGGGGGAGCAGAAAA GAAACAGGGGGAACAGGGAGGGAAAGGAGCCTTAACCAAAAC CAA A G G GAAAGGGGGGGGGGGGGGACAAGGGAAAAGAAAAAA A A G G G A G A C G G A A C C A A A G G G G A G A A G G G G GAAAAAA G G GAA $A$
 $A C C G C C C A G A G A A G G A G G G A A C C G G G G G A A C G A A A G G G A G A A$ A A G A A A G G G G A A G C C G G C C A G A A A GA $\mathcal{A} G G G G G G G G A G G G G A G$ G GAAGGAAGGAAAAGCGGAAGGGGGAGGAGGGAGAAGCCGCG GAAAAAGGAAAGAGGAACAAAAAAAGGGGGAGAGAAGAGGGG G GAA $A \operatorname{GACA} A A A A C A G G A A A A A A G A A A A A A G G A G A A G G G G G G$ GAAGGAAGGAAAGAAGGGATTGGCAGACCGGAAGGAACCGGG A G A G G G G C C G G G G G A A A G G A C G G C C A G G G A G C C G G C C G A G G A A G GAGGAAGGGGACCCAGGGGGGAGGGGAAACAGAAGAAAGG G G GA $\operatorname{l}$ GAGGGGAAAAGGAAAACCAGGGAAAAGGGGGGGAGGG A A G G G GAAAAAGAACAGACGGGAAGCCGGAACAGGAGAGAAA A G G A G G G A G G A A G G G A G G G G G A A A G G G G A G G A C A A A G G G G A A GAAGGGGGAAGGGGGAGAAGAGGAGAGGGAAAAAAAAACGAG G G G A A G G T T A A A A A C G G G A GAAA $A \operatorname{AGGGGGACGGAGGAGAAAA}$ AAGAGCCAAGGAGGAAACAGAAAGAAAGAAGCAAACCGGGGAA $A C C G G C C G G G G A A G G A G G G G G C C A G G A G G A A G G C C C C A A G A C$ C C C G G A G G G G A G G G A G G G A A G G A GAGAAAA A A A A GCCGGCC C C G G G A GCA $\mathcal{A} G G C C C C G G G G G G A A A A C G A G G G A A G G G G G B C X A$ A G G A G A A G G G G G G G G C A A A G G G G G G G A G G G A G G C C A A A A A A GAAAACCGAGGGGGGACGGGAGGGGCCGGCAGAACGAGAAAA

ACCGGCCAACCAACCAGAATAAAGGCCAAAAGAGGGGGGCGG G G G A G A G G G A T A A A C GAG G G G A G G G G G A G G G G G A G A A A A G G A T G G A G A G G G A A A G A G G G G G G G A A G A G G A A C A G A A G A A A A GAC C GAAGAAGAAAGAGGACAGCAGAAAGAGAGGGGGGGAGAGAC A A G G G G A G G G GCC G A G G G G G G G G A A G GC C G GCC G GAA G G G G A A A A A A G G G G G G G G A A G G T A G A A G GAAAA A A G G GAAAA A A T T G A A A A A G G G GAAATAGACAGCAAAGGGGAACCGGAGAGATACA $G C C C A A A A A G A A A G G G G A A G G A A A A A A G G G G A A A A A A A A A A A$ A A G G G A A G G G G G G C C A G A G A G A A A G G G G G G G G G A A G A G A A C G AAAGGGGAAAACCGGAAGGGGCAGGAGAGGGAGAAAAAAAGT
 G GACC G G C A G G G G C C A A G G A A C C G G G G A A G G A A G G C C G G G G A G G G G A A A A A G GCC GCGGAGCCAAAGGGGAGGGAGGCAA G GAC C C C A A G G G A G G G A C C A G G G G G A G G G GAGGGGCAGG GAAAA $A$ A A GAGAAGGAGGAACCGACCGGGGGGGGAAGAGGCCAACAAAC $C \subset C G G A A G A G G A A G G G G G G A A G A G G A A A A G G A A A A A A G A A A A$ $A C C A A G A A G G A A C C A A G A A G G C A G A A A G G G G G G A G A G A C A A G$ G A G A G G G G G G G G G G G G G A A G G A G G C G G G G G G G G A C A A C C A A C A G G A A A A A G G A GA G GAA A G G GAAGGAC GAAGAGGGCCGAAGAG GAAGGAAGAGGAAGGAGCCGGAAGGCCAGGGACGGGAGAAAG GAGAAGAAAGAAGGGGAACGAAAAAAAAACCGAGGCCGGACA A A A G GAGGAGAAAAAGGAAGGAGAAGGGGGGGGCGGGAACAA ACAAAGAGGGAAAGGGGCCAAAAGGAAGGGGAAGGGAAAAAA A G G G G A A G G A A GAAACAGGCCAAAAAAGGAACGAAGAGAAAA C C C G A A G G GAA $A \operatorname{G}$ GAAACAGAAGGCAAAGGGGCCCCAGAAAAG GAAGAGGAGAGGGAAAAAAGGCGAAGGAACCACAAAGAAGGA GCAAAAGGGAAGGAAGAAATTGGGGGGAAAAGAAAGGGAAAG G G G G G GACCGAAGCCAAGAAAAAGGCCCCGGCCCAGAAAGAG A A G G G A A A A G G G A G GAGAGGGGAAAGAACAGAAA GAA GAGAA AAAAGGACAGAAAAGAAAAGAAGACAACGAGCGGGGACACAA G G G A A A A A A A A G G G G A A A A A A A A GAATAACCAACCGGCAAAG GAGAGAACCGGGAGAGAAAGGAAAACGGGAGGAGGAGAAAC T TAA A A A A G GAA $A \operatorname{A} A A \operatorname{A} G A A A G A A A A G G G G C A G A A C G A A G G A G$ G G G G G A C G G A A G A A G G G G G C C G G A A G G G G G G G G G A A G G A A G G A GAG $\operatorname{A}$ GAAAGGGCAAGGAGGAGGAGGAAGGGGAAGAGGAAAAA G G G G A A A G A A A G GAGGGAAGGGAAGAAGAGAAGAGAGCAAAA C GAA A A GCCAAGGGGAAGGGGGGGGAAAAAAAAAAGGGAAAA G G G GAA A G G G GCCAAGGCCGGGAAGGGAAGGAGAAAAAAGAA $A C C G G C A A A A A A G G A G A A A G G A A G G A G A G A G A A A A G G G G A G G$ G G G A A A A G A G A A GA GACAGAGCCAAGGCCGGCAAAGGCAACB $G G A A G G A A G A G G G G G A A G G G A A G A A G G A C A G A G A G G G G A A G G$ G G A G G T T A G G G G A G A G G G G A A A A C C C A A A G G A G A A A A C C G G A AGGGGGAGAAAAAAAAAGGGGAAGGAGAGGGAGAAGGAGCAA A G G G G A A A A G G A A A A C C G G G GAAAAAAAAGGGGCCGGGAAAA
 A $G \operatorname{G} A A A A A G G G G G G G G G G G G G A A A A C C G G G G G G A A G G A B A A A$ AAAGGGGAACCGGAAAACCAAGGGGAAGGGGGGAAAAAAAAG GAAAAGGCCAAGGAAAAGGGGGGGGGGAAAAGGAAGAAAAAC CAAGGGGAAAAAAAACCAAGGGGAAAAAAAAGGACACTXAAG GAACCGAGGGAAGCAGAAGGAAAGAAGAGAATAGAAAGAAGG A GAAAAAGAAGAGAGGGAAAAGAAAGAGAGGAAAAG GAATXC CACAGAGAACAACCCAGCCAGCGGGGAACAGAAGA GAAAAGC AC G A A A G G G GACCCCGGAACAGGAAAAAAAAGGAGGGGAGGG
 G G G G GCC G A G G GAA A A A G GAA $A \operatorname{AGGGAGAGAGGCATCCAGAAG}$ GAAGGCAAACCACGGAGGGAAGGAGCCAACCAAGGAGAGGGG A G GAA A G CAA $A$ A A G GAGACAGAGAAAGGGGAACAGGGGGAAAA $G T T A A C A A A G A A A A G A A A A G G C A G A A A G G C C G G G A A A G A A C A$ $G G G G A G A A G C C C A G A G G G A G G A A C C G G A C G A G A G G A C A A A C G$

G G G A A A A A A C CAA $A \operatorname{AGGGGGGGGGACCGGGGAGAAGGGAAAA}$ A G G G G A A G A A A A A C C G G A GCA $\mathcal{A} G G G G G G G A A G G C C A G A A A B A$ $A G G C C A G G G A A G A A A G G A A G G G G G G G G A G G G A A G G G G G G G G G$ G G GAATTAAAGAACCGGGAAGACAAAAAAAGGAGGAAAGAGA GAAAAAACCAGAAGAAGACGGCAGGGAAAAACCAAGAAAACA A GAGGAGAGAGAAGGGGGAGGCCGGCCGGAAGGAGAGAAAAA GCAGGAAAACAAACCAGAGAGAGGGCCAAGGGGGGAAAGGGG GAAAAAAGGAGGACGAGGAGGGGGGAAAAGGGGAAGGGAGGA A G G G G A A A G G G A A A GAGGGAAAAAGCGGACAAAAGBAAAAAA $A G G C A C G G G G G A T C C A A A A G G A G A A A A G G A G G G G G G A G A G G G$ GAGAAGAGGAACCCAGACAGGGGAAGGAAGCAAAGAAGGGGA G GAGGGAGGAAAGGGCCAAGAAAGGAAGAGGAAAAGGGGGGA A A ATAAGCCGAAAAGCATTACAGCCGACAAAGGAGAACAGGA A A G GAACAATAGGAGAGAAGAGAGAGAACGAGGGAGAAAGGG
 AA $A G G G G A G G A A A A A G G A C G A A G G G G A T A A A G G A A G A G A A G A$

 $G G G G A G G A G A A G G G G A A A A A A A A G G G G A A G A A G A G A G G A G G A$ G G G G G G G A C A G G G A A G A A G G G A G G G C A C C G G G G G G G G A A G G A AAAAAGGCCGACCGGAAAACCAGGGCCGGAGAAGGGGGAAAG G G G G G G G G A A A G GCCACAC GAGAGAAAAAACGAAGGGAACAA GAACGAAAGGAGAGGAAAAAGACAACAGGGGAAAAAAGGGGG A G GAGGACCAAGAGGGGAGGGGGCCGACAGAAGAAAGCAGAG A A A C A $\mathcal{A} G G G G A G G A A C C G G A G G A A G G G G G A G A G G G A A$
A $G A \operatorname{A} A G G G G G G G G G C C G G G G A A G G G G G G G G G G G G A G G A A A G$ GAGAGGAAGAAGGGAAAGGTTTAGAAGGGGGAGAAAAAAGAA G G G A G GA G GAC GAAACCAAGGAGGGGGAACCGGGGAGAAAAA
 A G G G G GAGGGAGGAACCAGACGGGGGGCAGAGAGAGAAGCAA A G G G G G A A A A G G A G G G G A A A C A A A A G G A A A A A A A A G A A G G G A GCACCAAAAAAAAGGGGGGGGAAAAAAAAAAGGGGGGGGTTG G G GAAAAGGCCAAAAGGAAGGGGAAAAGGAAAACCGGCAAAA G G G A A A A C C A A A A A A G G G G G G G G A A G G G G G G G G G G G G G G A A A A G G G GCCAAAAAAGGAAAACCCCGGGGGGAAAAAACAAAAAA AACAA A A G G A A A A G GAACC G GCCGGAAAAAAGGAAAAGGGGC CAA $A \operatorname{GAAAAAATTAAAAGGAAGGTTAAGGGGCCGGGGGGGGG}$ GAAAAGGAAGGAAGGGGGGAAAAAAGGAAAAGGGGAACCGGG G G G A A G G A A A A G G A A A A G G G G G G A A G G G GAAAA A GAAAACAA $A \subset C G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G$ $G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T X C C B$ G G G G G G G G G G G A A A A A A A G GAA $A \operatorname{AGGGGGAAAAAAGGGGGAAAG}$ GCCGGAAAAGGAAAAAAGGAAGGGGAATTGGGGAAGGGAAAA AAAAAGGGGAAGGCCGGAAAAAAAAAAGGGGAAAAAAAAAAG GAAAAGGAAAAGGAAAAGGAAGGAAAACCGGGGAAAACAGGA A G GAA A G G GAAAA A GAAAAAAAAAAGGAAAAAAGGCCAAGAA A G G G G A A A A A A G G G GAAGGCCCCAATTGGAAGGAAAAGGGGA A G GAACCGGAACCGGGGAAGGAAAAGGCCAAGGAAAAAAACC CAAAAAAGGGGGGGGAAGGGGGAAGGAAAAAAAAAAAAGAAA A A G G G A A A C G G G G G GA $A \operatorname{GGGGGGGAAGGAAAAAAAGGGCAGAG}$ G G G GAGGGGAAGGAAAAGGAGGGAAAAAGCCAAAAAGA GAAG A GAA A GAA A A A G G G GAAGGCCAAAGGGAAGGAGAAACAAGGA A A G A G G G G G G G A A A A G G G G G G G G G G C C A A G G G G A A A A G G G G A A G GAGGAGGGGGGAGGAAAAGAAGGGGAGCAAGGGGAAAGGA AGGCCCGAAAAGCAAGAAGAGAGAGGAAAGAAAAGGAAAAAAG A GAGAGGAAGGCCAACCGGGGGGCAAAGAGAAAAAAAAAAAA A GACAGGAGCAACAAAAGGGAAAGGGAGGGGAAGGAAGACBA A A A A A A G G G G GAAGGCCAAAAGGCCCAAAGGGGGGAAAAAAA GAAAAAAAAAACCGGAAAAGGAAAAAAGGAGAAAAACGGGGA
$A C C A A G A G A G G G G G G G G A G C C G G G G G G G A A G A A C C G G G G G G A$ A G G G G G G G G G G A A A A A A A A A A A G G C C A A G G G G G G G G G G A A A A $C$ C G G G G GA $\operatorname{GA} A \mathrm{~A} G \mathrm{G} G A \operatorname{A} A A A A A G A G A G G A G G A G A A G G G A A A A A A$ ATTACAGAAAAAAAAAGGGGGGGCAAAAAAGGGGGGAAAGAA A A GAAAGCGGGGAGGAAAGGAAAAGCCGAAGAAAGAGGAGGG GAAAACCGAGAGAAAGGGGAAAACCAAAAAAGGGGGGGGGGC CAA $A \operatorname{GAAA} G A A A G A A A A G G A A A A G G G G A A A A C C G G C C B G A A A$ AAAGGAACCGGAAGAAGAAGAAGAGCCAAAAACAGAGAGCCA G GAGAGAAGAGAAAAAAAGCCGGGGAAAAAGAGACCCAAAAA A A A A A A ACAAACCGAACAAAGAGACGACCAGAGAAGGAGAGG G GAGGAGCCCCAAGGCAGAAGAAAGGAAGAGGGAAAAGGGAA A G G GAA A A A A A GAACAAGGAAGGGGGGCCAGGGGGGGCAAAC
 GGAGGAACAAACAGGAAAAGGGGAAAGAAGGAAAAAGAAAAC C G GAAAAAAGAAAATAAGGCAACACAAGGGGGGGGGAGGGGG AAAAGGGAAAAAAGGGGACGGAAAAAGAAAACACCGAAACAG G G GCAA $\mathrm{C} A \mathrm{~A} C A A G A G A G A G A A A A G G G G A A G A A A T T A A A A A A A$ A A A A G GAA A G G G G A A A A A GAGGGGGGGACAAAGACAAAAAAA AAAAGAGCCGGGGACAGGACAGAAAAGGGGAAATTAACAACG A GACCAAAAGGAGAAAAAAATCCCCGAGGAAAGGGCCTTGGG G G GAAGGAAAAAAAAAGGACCGAGGGAGGGGGAAAAAAAAAA A G G A A A A G G G G A A G G G GAA $A \operatorname{GCC} C G G G G A A C A A A G G G A A A C A$ CAAAAAAGGGAAGAAAGAAAGAGAACAAGGAAAAAGAACACA A A A G G A A G G A A G G G A G A A A A A G G A A G G C C A G A A A G G G A G A G G G GAGAGGGAGGAACCAAGACCGGGGGACCGGAAAACCCAACB AAGCCAGGAAAAAGGAAAAACGGGGGGGGCCGGAAAAAAGAA AAAAAGGAAAAGGGGCCGGGAAAAAGAAGAGGACCAGAAGGC C A A A G G G G G T T G G G G G A A G GACCGGAGGGAGAAGGAAA GA G C
 A G G G G A A G GAGGGAAGGGGGAAAAAAAAAAGGGAAAAGAAGC CAAGGCCGGGGAACCCCAGGAGAAAAGGGAGGAAGAAAAGGG GAAAAAAGGGGCCAAAAAGAACAAGGGGGGAAGGGAGGAGAG G G GAAAAAAGGAAAAAAAAAGCAAAGGCCAAAAGGGGAGACA ACAAAAAAAAGGACCACAAAAAAAAGGGGGGAAGGAACAGGG GAAAACCGGGAAGAAGGAGAGAAGAGGGAAGAGGGGGAAAA G G G G A A GA G A A G A G G G T T G A GACCGGAAGGGGGGAA GAGAGAG AAAAGGGGAAGACGAACGGGAGGAGGGCCAAAAGGAAGATTG A G G GA G GAGAACAAAAAAAAAGGGGAACAAGCCAAGGGGGGC A A GAA A G G GCCAAAGCCGGGAAGGGGAAAGGGGAAGGGAAAA A A A G G G G A A GACAATCAGAGGGGGAGGGGGAGGAAAGAGAA G GAAACGGGGAAACACAAAAAAAAAAAAGAACAGAGAAAAGAA GAAAAGGAAGGAAAAAGAAAAAGAGACAGAACAABAGCAAAA AAAGAGGGGAAAAAGGGGGAAAAGGAAAGAGGGAAAGGAAAA $A G G C C A A A A A A G G G G A A A A A T G G G G G A G G A G A A G G A A A A G A G$ G GAAAGGGGAAGGGGAAACGGAAAAAAGGCCGGAGGAAAAAC C C C T T G G A A A G A G A A A A A T GA G G G G A A G G G GAA $\operatorname{G}$ G A C G G G G G G G GCCGGAGAAGGCAAACCGGAAGAGAAAACGGGGGGCCGGG GAAGAAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGGAGAG
 G G G G G A G A A G G GAC C A G A A GAGGAGGGCCGGAAAGAAA GAAG GAAGGAACAGGAAAGGAAGGGAAGAGGAACCAAGAAAGAAAC CAACAACAGAAAAGGGGAAGAGGGGCCGAGGAAGAAACAAAG A A ACCAAAAAAAAGAAACCCCAGAGAAAGAAGAAAAAAAGGA AACCAGGGGGGGGGGGGAAAAGGAAGAGGAAAGGGAAACBGA G G GAA $A \operatorname{GA} \mathrm{~A} C \mathrm{C} A A G A G G A A A A G G C C G G A G G G A A C C G A A A A A G$ G G G G G G G A G A A A G A A G A A A G G G G A A A A G G G GAA A C A G A C G A G G G G G G A A A G G A G G CAG G GAGACAGGAAACAAAAAAAAGACC G GGGCCAAAAGGAAAAAGCCGGAACCGGAAGGAGAAGGCAAAA AAAGACCAGGAGGAGAGGGGGGGGAAAAAGGAAGGGGAACAA

AAAGGGAAAGAAGAGGGAAAACAAAAGGAGGAGAGGGGAAAA G G G GAAACCCCAACCGGAAGGAAGGACGAAATACAGGGAAAA AAACCGGGGAAGAAAGGCAGACACCAGACAAAAGGGGGAAGG G GAAAAGAGAAGGACCCGGCCGGGGAAAGGAAGGGAGCCAGG GAGGAACCAAAAGAGGAGACAAAAAGGAACCCCAGAAGAAAA A G GAACCGGAAGAAGGGGGACGGAAGGAAACGGAGGGGGGAG
 AGGAAGGACCCAGCCGGCCGGGGAGGGAAAAAAGACAAAAGG GACGGAGAAAGAACCGGGAAAAACCCCGGGGAAGGCCCAAAA AAAAAGGCCAAAAAAGGAAAAGGGGGGAAGGGGAAAAAAGAA A G GAA A G G G G G G G A A A G GAAACAGGAGGAGGAAA GAGAAAA $A$ G G G A A G G A G G G A A A A G A G G G GAGGGAAGGAGGAGGAA GAAAA A A A G G A A G G GA $A$ A $A G C C G G A A G G G A A G A A G G A A G G G G G G G G G$ G G G G G G G A A A A A A $\mathcal{A} G G G G G G G G G G G G G G G A A A A A A G A A G A G A$ A G G G G G G G G G GAACCAAAAAAGGAAGGAAGGAAGGAACAAAG $G G G C C A A A A A A G G G G G G G G A A G G C C G G A A C C G G A A G G G G G G G$ GCCGGAAAAAAAAGGGGGGAAAACCAAAAAAAAAAGGAGCAG G G G G G A A A A GACCCCACGGCCAAACGAAAAAAAGGAAAAAAA GAGAGAGGGAAGGAAAAAAGAAAGGAAAAATGAGGAAGGGGA GAGAGAGAAGGAAGGCCAAAAGGGAAAGGAGGGAAGACAGAA GAAGGGAAGCCAGGGGAGGAAGGACGGGGCCAAAAGGAAGAA ACAAAAACCACACAACAAACAACGGGAAAAAAAAAGAGGGGG ATAGGGGCCAGGGGACCAGAGGGAAGGAAAAGGGGGGCAAAA ACCGGGGAGAACCCCGGAAGGAAGGGACCAACCCAGGAAAAG GAAGGGGAAGGGAAGCCGGAACAGGGGAAAAAACAGG
G GCCGGACGGAAGGGGCCGAAGGGGCAACCGGGGGGAAAAG GAAAA A GACAGGAAAAAGGGGGGAAAAGGGGGGAAAAAAGGG G G GCCGGAAAAAAAAGGAAAAGGAAAAGGAGGAAGACAAGGG A A GAGAGGAGAGGCCGGAAAGGAGAAGAAGGGGAAGGAAAAA A G GAGAGGGGGAGAACAAGAGAAGACCAAAGAAGGGGCCGGA CACAGGAACGGAGATGGGAAGAAAAGAAGGGGGGGACAAACB A G G G G GAA A A A G GAA $A \operatorname{AGGGGAGGAAAAAAAAAAGGCCAACAA}$
 GAAGGGGGAAGAGGGGGGGAAAGGAGGAAAAGGAAGGGAGGA A A GAGAGAAAAGGAAAAGGGAAGACAGAGCCGGAAGGGAAAA GACGGGGAAAAAAAAAAAAAAGGGGAAAACCCCGGGGGGGGG G G GAA $A \operatorname{GA} A A A C C G G G G G G G G A A C C C C G G G G G G A A G G G A A A G$ G G GCCAAGGGGGGAAGGCCAAAAGGGGCCAAGGAAAAAAGAA A A A G G G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A G G G G A A G G A A C C G G G G A A A A A A A$ AAACCAAAAAAAAGGAAAAAAGGAAAAAAGGAAAAGGABAAG GAACCGGGGGGAAGGAAAAAAGAAACCGGGGGGAGCAAGGGG
 A G G GAGGCCGAGAGAGGGGGAAGAGGGAAAAGGGGGAGAACA
 $G C C G A A A A A G G G G G A A A G A A A C C G G A A A A G A A G C A G G A G G G G$ $G C C A G A A G G A A A A G A G G A A G A G G A A A G G G G A A G A G A G G A G A C$ $A G A A G G A C G G G C C G G G G A A A A G G G G A A A G G G A G C A A G G A A A G$
 A A A G G A A A GAGGGAACGGGGGGATTGGGAAGAGAAGGCCCCG G G GAA $A \operatorname{GTT}$ TAACAGAATAGCAAAAAAACCAAAAGGGGGAAAG GAAGGGGAAGGCCGGAGGGGGGGGGAACCAAAAGGCCAACCG GAAGGGGAAAAGGGGGGAAAACAAAGGGGGGAAAAAACAGGT
 A A A G GAAAAAAGGAAAAGGGGGGGGGGAAAAGGATAAACAAA GAGAAGGGGGGGGGGGGAACCAAAAGGCCAAAAGGAAGAAAG G G G G G G G C C G G A A G G G G G G G G C C A A G G G G C C G G A A G G A A A A A AAAAACCAAGGGGGGGGAATTAAGGGGGAATGGCCAACAGGA AAAGACGGACCAAGGAAAAGGAGACAAGAGGGGGAAGGAAAA G GAGGGGGGAGAAAAGGAAAAAAGGAAAAAAGGAACCAAAAG

GAAAAAAGGGAGGAAGGGGGAACGGGGGGAAAGGGCCGAAAA A G G A A G G A G G A C C A A G G G G A A G G A A G G G G G A G A A A C C T T G A G AGGCCAAAAGGGACCAGAAGGAAGGAAGGAACCAAAAGAAAA G GACCAGGGGGAAAAAAGGCCAAAAAAGGAAGAAACAAGGGG AGGCCCAAGAACAGAGGAGGGAAAGGAAGCCGGAGGGCAGAA GAGGGAGCAAGGAGGAAAGGAGAAGGGGAGGGGGGGGAGAAG GAGAAGAAGGGGGAAAAGGCCAAGGAAGGAAGGAACAAAAAG GAAGGAAAACCCAGAGGGGGGGGGGAAAAAAGGGAGGGAAGA A A G A G A A C C G G A G G G A G G G G G A GAGGGGAAGAAGGGAACAAA G G G G GCCGGAGAAGGAGAGACAGGAGAAAGGAGGGAAAGACA C G GAA $A$ G A A G GACAAGGAACCAACCGGGGAAAAGGAAAACAA $A C C A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G$ A A G G G A A G A A A A G A CAGAGCCGGGAAAGGGGACAAGGACGAA A G G G G G G A A A G A G GAA A C GAAA $A \operatorname{A} G G G G G A A A G A C G A A G A G G A G$ G G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAGGAAGGGG G G G G G G G G G GA GAA A GAGGAAGGAAAAAAGAGGGGAAAA GAA G GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAA GA TCACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAG GAGGGAAGGGGGAGAAGCCAGAGAGAAAAGGGAGGAAGAGGA A G A A G A A A G G G A G A A A A A A A G G G G G A G G A C G G C C A G G G A G G G G G GAGGAGAGGGGATTACGAAGGGAGGGGGGAGGAGAGGAAAC CAAGGAGAAAGGGAAGAAAGGAGGAAGAGCACCAGAGGACAA C G GAAGGCAAACCGAAGAAGGGAGAGAAACGAGACAAAGAAG GACAAACAAGGAACAAGAAGGCCGGGGAGGGCCAAGGGGGGG A A A G A G A G GCC G G G G A G G A A A C C G A A C G G G G C C A A G G G G G G A A G G G G GAAA $A \operatorname{AGG} \operatorname{A} A A A G G G A G A G A G A C A G G A G G G A G G A A G G G$ GAAAAAGGGAAAAAGAGGGAAGGGGAGGGCAAGAAGGGAAAG GACGAAGGGGAAGGGAGAAGGCCAGAAGGGAGAAGGAGAA GA A A A G G A A A G G G GAGAAACAAGAACCAGGAGGGAAGGGGGGGG AACGGAAGGAAGGAAAATTGGGGGAAGAGAGGAAGAAAGGGG GAAAC $A$ A A A A $\mathcal{A} G G G A A G G G G G G A A A A G G G G C C G G G G C C B A A A C$ $C \subset C A A A A G G G G A A G G G G G G A G G G G A G G G G G A G A G G A A A A G A A$ G G G A A A G G A A G GAAATTCCAGAAAAGGCCGGACAAAAAAAAG G G G G G A A G G G G G G G G G G G C G G A G A A A A A G CAAA A GAACAAA A A G G G G GACAAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAA G GAACCGAACAGGGAAACAAAGGGGGAGCCGAGAAGGGGGGGA G G G G GCCAAGGGGAAGGGAGGCCGACAAGAGGAGAAAAAGAG A GAAAAGCCAGGGGGCCAGGAGACAGAAGGATTAAAAAAGAA A G A G G A A $\mathcal{A} G A G G G G G A G G G G G A A A G A G A C G G G G A A A A A A G A A$ GAAA $A \operatorname{A}$ GAAAAAGGGGAAGGCCGGTTAAGGGGAAAACAGAAAA

 G G GCCAAAGCCGGGGAAAGGAAGGAGGAAAAAAGAAAAGCAG GAGGGGGGAGAAGAAGGAAAACCGGGGGGGGAGGGACAAAAC
 C GAA A TAAAGGGGAGGGCCGGGAGGGGAAAGAAAGGACAAAA AAAGGGGCCGGAAAAAAACGAGGAACCCCACAGCCAGAGGAA GAAA A $A \operatorname{Ag} \operatorname{A} G A A A A A A G G G G A A A A G G G G A A A A A A G G A A G G G G A$ A G G G G G G GAGGAAAAGGGGAAAAAGAGGAAAAAAACAA GACAA $A C C A A A G A A G A A G G A G G G G A G A A A A G A A A A A G G C C C C G A A A A$ A GAGGGGCCAAGGAAGGGGCCAAAAGGAAAAAGAAGGCCGGG GAGAAGAGGCCGAAAAGAGGCATAGAAGAAAAAAAAGGGGGG $A G G G G G A G G G G G G T T A A G G G G G G G G A A C C G A A G A G G A G A A A G$ GAAAGGAGGGGGGAAAAAAGGCGTTGAAAGAAGGAGGGGGAG GAATTCCAACCAAAGAGGGGGAGGAGGTAGGAAAAAAAAGAG GAACAGGGGAACACAGAGGGGGAACGAAAAAGAGAAAAGAAA G G A A ACCAAAAAAAACAAAGGGAGAAACAAAGGGGAAGAGAA $A C C G A C C A G C C A A A G A G A A G A G A A A G A G G G A G G G G G A A A A A C$ $C G A A A C A A G A G A A G A G G G G C C G G C C G G G G G G A A A A C A G G G A G$

GAGAGAAGGGAGGCCAAGGAAAAAAAAAAGGAAGGAACAAGA GAACCGAGAGGAAGGGGAACAGAAAGAAAGGGGGGAAA GAAA A G G G G A A G G A A G G A A G G G G C C A A A A GAGGAAGGAACCCAGAG AGGAAAGAGGAAGAGAGGGCAGAAGAGAAAGCAGGAGAAGAA AAA A A GAAAAGAGAAAAGAGAAAGGAGGGGGGGAAAGGAAAA GAGAGCCAGAGAACCGGAAAAGGCCAAAACCGAGAAGGGAGG
 C G G G G A G A A G G G G G G A A G G T T G G A G A GAA A G G G G G G G G G G G G G GAGGAGACAGAAGGAGAAGGAGGAAGAGCCAGAGACGAAGAG G G G G G GAGAGGCCCCGGAGGGAAAGAAGGAAGAAGAAGAAGG A GAAAAAGGAGAGAGGGAGCCAACCACAGGGCAGGGAGGAGC CAAACGGAAAGGCGGTTAGAAGGGGAACAGGGGAAGACCCCA $G G A A A A A G G A A G G C C G G G A A A G G A G A G G G G G A G C G A G C A A B A$ A A G GAA A A A A A G GACGAAGGAGAGGCCGAAAAAAAGGGGGCA A A ACCGGAAAGGGGAAACACCGAGGAAGGAAGGGGAAAAAAA A A A A A GAAAGGAAGAAAAAGGGGAGCCAGCAGGGGAGAAACAA A G G G G G G G G G G A A A A A GAACCAACGGGAGGGAAAAAAAAAAG
 CAAGGAAAAGGGAGGGAGGAAAGACAAACCCAAACAAGAAGA GCCGAAAGGGGAGAGCAGAGAAGCCAGGAAAGGAGAGAAAAC AACAAAAAGACGGCCGAAAAAAACCAACAGGCAAAGGGGGGG GAAGGAATTGGGGAAAAAACCGGGAGGAAAAGGGGGGACGAG $A C C A A A A A G A G G A A A A A A G G G G G A A C C G G A G C C A A C A G A A A G$ G G G A A A G G GAGGAGGGAAAAAAACCGGAGAACCBACAAAAGA C A G T A A A A G A A A G G G G G A G G A G G A A G A G G A G G A A A G G
CAAAGAAGAAAAAAGGGAGGAGAAGGGGAAGGAGAAAAAGA GAGGAGAGGCCCCAAAAAAAAAGAGGGAGGAGGGGATAAAAA ACCGGGGGGAAACAAGGGACCGGGGAGAACGGGAGGAAACAA A GAAA A G A C G A A A G G G G GAGGAAAGGACAGAACA GACAAGAA GAACCGGGGAAAGGAAAGAAGGAACGGAAGGGAGGAAGAAAA A A A A G A A A G A A G G G A A A G G A A A G G G G G A A A A A A A A A G G G G G G AAAGGGGAGAACCGGAAAATAAAGGAAAGAGGGAGCCGAAAG G GAGGGAGAGAACACGAAAAAAGGGAAAAAGAAAACCCAA GA A GAAAA A G GA G G GAACCAAAGAAGAAAAAAAAGAAGGCCGGC CAAGGGGAGAAAAGGAACAAAAAAACAAGGAGGGGCAAAAAA $A G G A C G G A A A G G A A A G G A G G G G G G G A A G G G A C C G A G G G A G A C$ GAGGAAAGGGGGAGGAAAACCGGACAGACGACCAAGGGAGAG GAGGCAAGGAAAAGGAAGAGGGGGAAGCCGATTAAGGBAAAA G G G A C A A G G A A A A G A G GACAACCGGGGAGGACAGA GAA GA G G
 GGACAACAATTGACCCCAACCAGGGAGACGAGACAGAAAGGG GAAA $A$ A A A A A A A G A A GAGGAGGGAACCAACCAGTTCCGAAAG AAGCCAAGAGACCGGGGGGAAGGAGCCAAAAGGGGCCGAAAA G G G G G A A G G A A G G A A A GAGAGCCGGAAGGAAGGCCAAAAAAA AAACCCCAAGGGAGGAAAAAAGCAAAGCCTTAAGGGGCAAAG $G G G A A A A A A G G G G A G G A G G G G G G G A A A A G A G A A A A A A G A A G A$ GCCGGGGCCGGAGGGGAAAGGAGAAAGAAGGAAGGGGAAAAAA GAGAAAGGGAGGGCCGGCCGGAAGACCACGGGAAGAAAAAAA AAAGGACGGGAGGAGGACCAACCAGGGAAGAAACCAACAAAG GAGAGCAAAGGAAGGGGAATTGGGGGAAGAAACGGGAAAAAT A G G G G GACCGACAGAAGACGGAGGGAAGGAAAAGACAGAGAC C GACCAAAAGAAAGGAAAAGAGGGGGGAAAAGGAATTCCGGA GAAGGAAAAGGAAGAGAAGGGAGAAGGGGAAAAAAAGAAAAG $G C C A A A G A A G A A G G G G A A C A G A A G G A A A A A A G G C C A A G A A A G$
 GACGAGGGAAAGAGGGATTGAAGCAGAGGAACCGGGAAAAGG A GAGGGACCAAAAGGAAAGCCCCAAAAGGGGAAGGGGAAAAG G G G A A A A G A A A G G G GC C G G C C A A G GCC A A A A G GC C A A A A G G G G G G GAGGAGCCGGGGGGGGAAGAGAGAGAGACCAGAAAAGGG

G GAA A A GAGGAAGAAAAGGAGAGGAAAGAGAAGGGAGAAGAG A A G A C A T A GAGAGGAACGAGGAGGAGGGAGAAA GGGGCCGGG A A G G G A A G A G G A G A A GACGAAAGGAAAGGCACGCCAAAGACA CAAGGAAAAAGCAAGCCGAAGCCGGCCGGGATAGGAAAAGAA $C G G G G G G A A A A G G C A G G G G A G G A C C G A C C G G C C A G G G G G G G A$ A G G G G A A A A A A G G A A G G A A G G G G A A G G A A G G G G G A A G G G G G G ACCAAGGGAAAAGAAGGACAAAAAAAGGAGGCAAAAAAGGGG GAAAGAGAAAAGGAACCAGGGGGGGCCGGAAGGGGAAAGAAC C G G G G G G G G G G A A A A C C A G A A G G A A G G G G G G G G G A C C G G A A A G GAAGGAAAGGAAGAGGAACCGGCCAGGGGGGGACGGAAACA GAGGAAACCGGAGAAAAAGAAGGGGGAAAAGAGGAAACCGBA G G G A A A A G GAACC G GAGGGCCAGGGAGCCAGAACCAAGAAAG G GAGAACCCAGAAAGGGCCCCGGAACCAACCAAGGGGGGGGA A A GAACCGAGAGAGGAAAGGGGGCCGGCCGGGGGGAAAGGAG GAGAGGGGGGGAGGAGACCTTAGGGCGAAAAAAAGAGAAGAA G G GAGAGGGCCCCACAAGGAAGGGGGGCCGGCCAGGGGGGAG A A A G G A A A A G G G G G G G G A A A A G G A A A G CAAA A GAAAA G GAA $A$ GAAGGGGAGGGAGGAGGCCAGGGTAGAGAGGAAGAAAGGGGA AAAAAGGCCAAGGGGAAGGGGGGAGAGAGAAGACCAGAAGAA GAGGAGGACCCAGAGCAAGAAAAAGCGGAAAAAGGGAAAAGA GAGAAAGGGAAGGAAAAGGCCAAGACCACGGGGGGAGAGAAA A G GAAAAGGGGCCGGCGGAGGCCCCAGGAAACCACAACAAGG
 A A G G A A C A G A A A A A A A A G G G G A A G A A G GAAAGGCAAAAAGAA A G A A A A G A A C C A A G GCCAGGGGAAACAAAAAAAGGAAAAA GA GAGGAAGAGAAAGGGCCAAGAGGAAGGAAAAAAAAGAAAGGG G GAA A A G G G GAGGGAGGAAGACAGGCCGGAAGGAAGGAGGGG G G G A G G A A A G G G C G A A GAGGGGGGAGGGGAAGGAGGAAACAA A G GAACAAAGGGAAAACAAGGGGCAGACAGAGGAGGAGGGAA CACGAACAAGGACAGCCGGATGGAGAGAGAGGAGAAGGAAAG A G G A A G G G GA G A A G G A A A A A A A A A A A A A A G GAA G G G G A A G G A A A G G G G G G GAA A GAAGGAGAGACCCACGAGGAAGGAAGA GAA GAAGGAAGGGGAAAAAAAAAAAGGGGGAAGAAGCAACGGGAA A G G G G A G C C A G G G G G G G G G G A A G A A G GAAAAAAAAGAATAA G C

 AGGAAGAAGAGGACCAAAAAGCCAAGAAAGAAAAAAAAAAGG AAGGACCAAAAGGAGGGAAGAACGACCGAACGAGAGGAAAAA

 A G A A A A A A A C A A A A A A A A GAAAGGAGGAAGGAAGGGAA GAGA G G G A A A GAAGAGAAAGGAACCCAAAAAGAGAACGGAAGAAAA GAGCCAAAAGGGGCCAAAAGACCGGAAGGAAGAAAGAAAAAA $A G G A G A G A A G G G G A A A A A G G A A G A A A G A A A A G G A G A C G G G G G$ G G GAAAAAGAACCAGCCAGAAGGAGAGGAAAAGGGAAAGGAA A G GAGAAAACAGGAAAAGGGGAAGGTTGAGGAGAGAGCAACAA A G G A A A A G G G G C A G GACAGAAGAGAGAAAGGCAGGGGAAAAA A G GAA A A GACAAAAGAAAGGGAAAACCGGAAGGAGAGAAGAA G G G GAGAAGGGGGAACCAAGGAGGGAACAAAGAAGGGAACC G
 GCAGGGGAAGGAAAGGGAAGAAGGAAACCAGAACAGGAGAGG GAAAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGGGGGAAAAAAAAGGAACCAAGGGGAAAAAGGAACGGC C GAAAGGAAAAAACAAGAAAAGGAAAAGGAGAGAAAACCGBA GAACCACAGAAAGTAAAACGACCGAGGGGGGAAAGGCAAAAG A A GAA $A \operatorname{GAA} A G C \subset A A G G G G G G A G G G G G A A G G A A G A G A A A A G G$ G GAAGCAGGAGGAGGAGAGCCAAAGGGAAAGAAACGGCAAGAG G A A A A G G G G G A A A G G C CA C G GAA G G C CAA GAC CAA G G G G G G G G G G G G G GAAAACCGGCCAAGGGGGGGAAAAAAAGAAAGAAAA

AGGGGCACCAAGGGGAACCATAGAACACCCAAAAGATAAAAG A G A A A A A G A A A A A A A G G GAAA $A \operatorname{A} A A A A A G G G G C A G G G A A A A G A$ A A A A A A G G G GAAACCGGCCAAAAAAGGCCACGGGGGGAAAAG G GAGAGGGGGGGAAGATGGGGAGACAGCAGGCCCCCCGGCCG GAGAAGAAAAACGCAGAAGGATTCCCCCAGAAGCCGCAAGAG A A GAAA ACCGGGGGAAGGACCGGAAAGGACCGGGAGAGAGAA
 G G G A A A A A A G G A A G G G G G G GAA $A \operatorname{G} G A A G G G G A G G A A G G C C G G G$ A A A G G A A A A G G G G G A G G G G A C G G G G T T G G A C A G G G G G G G C A A ACCAACCAAAAAAAAAGGGAAAAAGAGGGGGAAAAAAGGGGA A T TAA A G G GAG GAA A A A G G G G G G A A G G G A G G A A A G A A A A G G A A A GAAA A A G G A A G G G G GAC $\mathcal{A} G G G G A C C G G A A G G G G G A G A G G G$ GA $A$ A $\operatorname{A} T A G A G A G G A A A A A C A A G G A G G G G A A G G A G A G A A A A A A$ A G G T T G GAAAGGAACCCAGCCAAAAGGGGGGGGAGGGAAAAG A GAGGGGAGGGGAGGAGGGAGGGAAAAGAGGAAAGGAGAAAA A A GAGGGGGGGAAGGAGAGGACAAAAAAAAGCAAAGGCCGGG GAGGAGGAAAAGGAAGGAACCGAAGGGAACCAAACAAAAAAG A G G A A T TAATTAAAAAAAAGGAAAAGAAGGCAAAGAATTA
 A A A A A C C A A G G G G G A GACCCAA $\mathcal{A} G G G G G G G A A A A A A A G G G G G A$ $C G A C C A A A A A A G G C C A A G G C A A C G G G G A A A A G G A A C A A G A A G$ A A A A A G G GCAA A G G GAAAGGGGAGAAGGGGAGAGGAGGAAGAC ACAGGAGGGAAAAAAGGAGAGAACCGGAAAAAGCAGAGCGGA A $G G G G C C A G A G G G G G G G A A G A G G A A G G G G C C A A A A A A G A A A A$

G GAAAAGGGGCCAAGGGGAAAGGAGGAACCAACCCCAAGCA GAAGGAAAAAAGGAAAACCAGGGGGAACAAAGGGGAAAAGBG
 $A A G G G G G A G A G G G A G G G A G G G G G A A G A G G G A G G A A A A A A G A A$ AAAGGGGAACAGGAGGAGAATAAAAACGGAAAGCCAAGAACG GAACCACAAAAGAAACCGGGGAAGAAGGGAAGGAAAGAACAG A G G A A A A A A G GAA $A \operatorname{AGGGGAGGGGAAGGAAACAAGGTTCGAGA}$ GAAGAAGGGAAAGAACCAAAAGGAGGGAAGAGGAAGGAAA GA
 G G G A G A A A A C C A A G GAGGGTAGAAAAAGAACGAGGAGA GAAA GAGAAAAAGGAAACCCCGGGGAAGGAAAGGAGGGGGGGGGGC AAAAAAAGACCCCAGGGGGGGGGAAAGGAAGAAAAAAGGAAG GAAGGGGAAAAAACCGAGGAGGGGGAAGGGAAGAGAAAACAA AACAAAGAACCTTGGAAAAAAAAAGGCGAGGGGAAAGABAAG G G G G G G A A C A G A G G A A G A T A A $\mathcal{A} G G G G G G G G G G G G G G A A A G A G$ GAGGGAGGAACAGGGGGGGCAGAGGAGGGAAGGGAGGGAAAA GAGAGGACACCAAGGGGGAGGGAAGAGAGAAAAAAGAAACCG G G G A C T T G G G G G G G G G G A A G G G G A A A GA GAAGGAAA GAACAA $A A G C C A A A A G A G G A A G A C G A A G G G G G G A A G G G G A A G G A G G A G$
 GAGGAAGCCAAGGGGCCGAAAAAAAGGAAAAGGAAGGBAAAA
 A G GAAAAGGAACCAAGGAAAAAACCAACCGAGGGGAAGCCCT TGGAAAAAGCCAACCGGGGGGAAAAGGAAGGGAGAAGAAAAA A A A G G G G G G G G A A G G A A G G A A G G G G G G G G CA $\mathcal{A} G A A C C G G C C A$ A G GAAAGCAAGAAGAAGAGGGAAGGGAAAAGGGAGAAGGGAA
 GAAGGAGGGGGAGGGACAAAGGGAGAGAAAGCAAAGGCCCCA GAAAAAAAAGGGGGGGGGGCCGGGAAGGGGACCGCCCAAAGA AAGAACCCACAAGAGAGCCGAGAGAACCAAAAAAAAAAAGGG
 TGAGAAAAAAGAAGAGAAAAGAAGGGGGGAAAGAATTAAGAG G G G G G GAAAAAGACCCAAGAAGGCAGAAACCACGAACAAAAG A G GAAGGGAAAAGGGAGCAGGACGGCCGAAAAAAAAAAGAGG

G G GAGAGACGAAGCACCGGAAAAGAAAAACCAAAACCGGGGG G GAGAACGAAAACGGGGGGGGGGAAAGGAAGGGGGTAAAAAA
 CAA $A \operatorname{GAAAA} \operatorname{A} \operatorname{A} G \mathrm{G}$ GAAAAAAGGAAAAGGAAAAAAGGGGAAGGG G G GAAAAGGAACCGGGGAAGGGGAAAAAAAAAAAAAAGAAAG
 C G G A G G G A A C C GAA A $\mathcal{A} G G A G G G G A A T T A A A A G G G G A G G A C A A$ $A G G C C A G G G A A A G G G A A A A G G A A G G G G G G A A G G A A A A A A G G G$ GCCAAAAGGAAGAGAAGAAGGAAAAAAGGAAGGGAAAAAAAC $C \subset A A G A A G A A C A G G G A A G G C C A A G G G G A A A A G G A A G G G G G G A$ A G GAAAAAAAACCAAGGAAGGAGAGGAGGCCCCAGAAGAACB G T TAAAAGAGGGAGGAGAACCGGGAGGAGCCAGAGAAAAAGG G G G G A A G G A GAA $A \operatorname{G} C A A A G G G G G G G A A C C C A A C A A A G A A C C T$
 GAGACAAAAGGAACAGGGGAGGAAGACGGGGGGAAGAAAGAG AAAAGGGGGAAGGAAAAGAACAGACGAGAAAGGGGGGGATXAA AACGGAAAACCGGGAGGGGCAGGGGAAAGCCAAAGAAGAAAG
 A GAAAAGAGCCGGGAGGAGGGGGCCAAAAGGAAGGAGGAAAG
 $A C C A A G G G G A A G G G G G G A A C C A A A A C C G G A A A A G G A A A A A A A$ A G G G G A A A A A A A A A A A A G GAAAA $A \operatorname{A} A A A A A G G G G A A A A G G G G A$ A A A A A A ACCAA A A G GAAAAAAAAGGGGGGCAAAGGGGGGCCA A A A $\mathcal{A} G G G G G G G G G G G G G A A G G A A A A A A G G A A A A G G A A G G C A A$ A A A $\mathcal{A} G G G G G G G G G G G G G A A A A A A G G G G G G G G G G A A G G A A A A G$ G G G G G A A G G G G G G G G G G A A A A G G G G G G G G C C G G G G G G G G A A A $C G G C C G G A A G G G G C C G A T T A A G A A C A A G G A A A G G G A G G G A C A$ GAGGGAAGGAGCCGAAGGAAGAGGGGAAGAAGGAAAAAAAAC CACAGGGACAGGAAGGGAAAAAAGGCCGGAAAAAAAAGGGGG G G G G GCC G A GACCAAGGGGGGCCAACCGAGGAAGGAAGAAGA GAGAGGGCCGGAAGGGAGGGGAAAAAGAACCAAAAAAGGGGA GAGCCGGAAGGAGGGCAAGATGGGGAACAGGAGGGGGAGAAC C G G G GAGACCCAACCGACCAAAGGGAAAAGGAGAGGGGAAAA CAAAAGACCACAGAGGACGAAAAAGCCGGGAAAGGGGAAGAC A A A G A A A G GAACCAGGAAAAAGGGAAAAGGAAACCCCBAGAA G G G GCGGACAAAGACAAGAAGGAGAGAAGGAAAACGGCAAAG $A C C G G G G G G G G C A A A C C A A A C A G G G A A A G A A A G A A A A G G C C G$ GAAAAAAAAAA GGAAAAGGAAAAAAGGAAGGAA GGGGGGCCG GAACCAAGGAAGGAAGGAAGGAAGGGGGGAACCGGCCAGAAG G G G A A A A A A A A G GAAC C G G T T A A A A G G G G G G G G A A A A G GAA A $A G G A A G G G G G G G G A A C C A A G G A A G G A A A A G G A A G A G G G G G G G$ GAAGCAAAGAAGGAGAGAGAAGGGAGGAGAAAAGGAGCAAAA AGGCCAGGACAGGAAAAGGGAGGACCCGGGGGGGGAGAAAAG GAGGAGGGAACGAGAGGGAAGGAAGCCAGGGGGAAGACCGGC $A \subset A G G G G G C \subset C A G A G G A A A A A G A G G G G A G G A G G G G G G A A A G A$ GAGAGGAAAGGGGGAAGGAAAAGAGAGAAAAGAGGCCAACAA GAAAGAAGGAAGGAAAGAAAGAAGGAAAGAGAAGGGGACAAG AAACACAGGAAGAAAGGGAAAAAGGGGGGGGAAGAAAGGCCA GAATTCCGGGGACAGAGGAGAGGGAGGAATTAGGGGGAGAGG GAAGGGGGGGAGGAGGGGGCCGGAAAAGAAAACGAAGAGGGG A G G A A A G G GAGAGAGGAAGCGGGAAAAGGCCGAA GAAGAGAA GAAGAGGAAGAGAACAGGAGGAAAAGGAGGGAGAAAAAAGAA GAGACGGAGCCAAAAGGAGGGGAGGAGAAGGACAAGAGAAAAA AAAAGGAGGGGAGAAAGGAAGAAGGGAAGAAAGCCGGGAGAA A A A A G A A G G G G A G GACCCCGGGGAAAAGGAAGGCCACAGAGC AAGGGGGAGGAGGCCAAAAGGGAGGAAAGGAAAAAAAGAAAG GACAAGAGGACAGAAGGAGGGGGAGGAACGGAAAAGAAGCCA A GAGGAAGGGGCCCCGGAAAAAAAAAAGAAAAAAACCAAGAC $C C C G G C A A C G A G G A A G G A A G G G A G G G A G G G G A G A G G A G A A G A$

A G G GAAAAAGAGGCCGGAACAAAAGAAAGGGAAGAGGGAAAG GCCGGAGAGAGGACCCCGAAAGGGGAGGAGGAAGACCGAAAA A A A A A A A A A A A A A A A C C G G A A A A G GAA G GAA G G G GC C T T G G G G G G G G A A G G G G G G G GAAGGCCAAGGCCGGAAAAAATTAAAAA A G GAAGGAAAAAAGGAAAAAAAAAGGAGAAAGAAGAAACACC CAAGGCCGGAAAAAAAAGGGGAAAACAAAGGGACCAGGAAAG A A GA $\operatorname{A} G A C C C A G A C A G A G A A A G G A C C C C C G G C G G G G G G G G G A$
 $A C C G G G A G G A G A A A A G G G G A A G G G G A A G A A A A G A A G G A A A A G$ AAAGGAAAAGGAACCAAAAGGAAAACCAAAAAAAGGAGGCCG G G GAA $A \operatorname{GAAAA} A \operatorname{A} A A A A A A A A A A A A G G G G G G G G C C G A A A A A G$ G G G A A A A A A A A G GA A A A A A A A A A G GAA G G G GAAACAC G G G G G GAATTGGGGGGCCGGGGAAAACCGGGGAAAAGGGGGGGGGGG G G GCCGGGGAAAAAAAAGGGGAACCGGAAAAAAAA GGGGGGA A G G G G G GAA A G G G G G G GAC G GAAAGACGACAAAAATTAAAAC CAAAACACCAAGGAAGGAAAAGATAAGAGGGAAAGGGGGGGG GCCAAGGGGGGGGGGAAAAGGAACCCCAAAAAAAAAAAAGGG G G GAACCAAGGAAGGGGAAAACCGGAAAAAAAAAAGAAAAAC CAAGGGGGGAAGGAAGGGGGGAAGGGGAAGGGGAAAACAAAA A G G G G G G A GCAAA $A \operatorname{A} A G G A A A G G G G A A G A G A A G G A A G G G A G B A$ AGGAAAAGGAAAAGGGAGGGGAAGGAGACGGAGAAAAAGAAG A A GA $\operatorname{A} G A A A G A A C G G G G A A A A G G G G A A C C A A A A G G G G G G A T G$ G G G A A C C G A A A A A A A A G G GCGCAGAAGAAGGCAAAGAAAA G G A G G G A G G G G C C A A G G G G A A A A T T G G A A G G A A A A A G G A C A G G C A A A A A A A G GAAA A A GAGCACCAAAAAAAAGGCCAAGG
$C \subset G A A G A G A A A A A A C C G G G G G G A G G G A A A A A G A A G A A A A A G$ G G GAGGACCGGAAGGAGAGGGAGGAAGAAAGAAACAGAAAGA A G G A A G G G G A A G G A A A A T T GAAAAGAAAAAAGAAG GAAAA GA A A A G A A A A G G G A A GATTACCCGGAGAGAACCCAGGGAAGGAA AGGGGGACACAAACCAAAGGAAAAAGAAAGGAGAAAGAAAAA A G G A C G G A A A A A G G A G G GAGGAGAAGGGGAGAGGAAA GAA GA G G G G GAAAAGCAAAAAACAGGAAGGGGAAAGAAGGAAGGAAA A G G G G G GA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A A \operatorname{A} A A A G G C C A G G A A G G G G G G G A G C A G$ G G A A C G A A G G G A A G GACAA $A \operatorname{AGGAAGCCGGAAAAAAAGGGGGA}$ CA $\operatorname{G}$ TAAAGGAAAAAAAAAAAAGGGGAAGGAAACAGGAGAAAC
 A A G GACAGGGACCAAGGGGCCGATAGAAAGGGGCCAAGAGGA
 CAAGGGAGGAGAAAAGGAAAAGAGGAAGAAGAAAAAGAAAAG GAAACGGAAAAAAAAAACCGGGAAGAAGGAAGAGAGGGAAAA CAGACAAAAAGAGGGCAGGAGAAAGGAAAGAAAAGGAAAGGA G GAGAGGGGAACCGGGAAGAGAAGGAGGGAAAAGGAAAAAAG G G GAGGGGGCAGGGGGGTAAACAGGCCAGGACGGGATAGGGA AAA A A G GAGGGGGAAAGAAAGGAGAGAGAGGCCAAGGGGGGG G G G G G A G A G G G A A A C G G A A A A G GAA A G G G A A A A A A G G C A G A G A GAGAAAGAGACCCCAAAAAAAAGAGGAGGGAGAAAGAGAAA G G GAGGGGGGGAAGGAAAAAATAAAGGAGGGGGAAACGAAGA A GGCCAAACAAGAAAGGAAAAGACAGGAAGGAGATCAGAGAG ACAGGAAGAAAAAAAAAGAAAGAGGAGAAAGAACAGAAAAAA
 GACGGAAGAGGAGAAAACGCCAAGGGGGGGACCAATAGAGAA A GACCGAGGGAAAGGGAGGATACAGGGAACCAATA GAAGGGA G G G G G G A C A A G G G A G G G A A G G A G G G A G G A C A C A G A G G G G G G A AGAAGCCAGAGAGGGGGAGAAGGCACCGGAAGAGAGAAGAGA C GAA $A$ A $\operatorname{A} A A A A G A G A C C A C G G G G A A G G C A A A G G G G G G G G G A A$ AAAGGAAAAGGGGAAGGAAGGAACCAAAAGGAAAAGGGAAAA A A A G G G G A A A A A A G G A A A A $\mathcal{A} G G G G G A A C C G G A A A A G G G G G G G$ GAAGGGGGGAAGGCCAAAAAACCCCAAAAAAGGGGGAAAGGA $A G G G G G G C C A A A A G G A A G G A A C C C C G G G G G G A A G G G G A A C C G$

G G GAAAAGGAAAAGGAAAAAAAAGGAAAAAAGAACAGGAAGA C C CAAACGCCCAAGGAAGAGGAAGGAAAAAAAAAAGAAAAGA G G GCC GAGAAACAGGGGGGCCACGGAGAAACAGGGGGGAAAA A ACGGCCGGGGAAGACAAGGGGAAGAGAAAGAAAGATCAAAA G G GAGGAAGCCGAAGGGACGGGGAGACAGAGGGGGAGAAAAG G G G G G A G A A GAGGGGGGAAGGCCAACC GAGGAGAGAAGAAAG $A G G A G A G G G G A G G A G G G G A G A G A A A A A A A A A G G G G A G G A G A A$ $A G G A A G A G A G A G G A G G G G A A G G G A A A A G G A A G A A A A G G G G G G$ G G A A A G C G G G G G G A A G G A A G G A G A C A A G A G GA G A A G A A G G G G GAACCAGCAGAAACCGGGGAAGGAAGGAGAGCCGACCGAAGA GAAAGGGAAAAGGGGGACCAAAGGGGGGGCCAAGGAAACAAA CAAGAAACAACGAAAAGGGGGCCACGGAAAGGAGGACAAAAA GAAAAGAAGAGAAGGGAAAGGGGAAAAAAGGAAGGAAGAAGA $G C C A A G G A G A A A G A G A G A A G G A A A G G G G G A G A G A A A A C A G A G$ GAAACGGAAGGGGAGGGAAAGCCGGGGAAAAAAAAGAAAAAA A G GAA A ACCGGGAGAAGAACCGAGGAGGGAAAGGGGGAAAAA A G GA $\operatorname{l} G \mathrm{G} C A A T A G A C C C G G A C G A A A G G G G G A A A G G A G G G G G A$ G G G G G G A A C G G G G A G G A G G A A G G A A A A G G G GAA A C G G G G G G A AAAGGCCGGGGAAGGAAAAAAGGGGGGCCCCAAAGGGGGCCA A A A G G G A G G A C G A G G G A A A A G G A A G G G G G G G G G A G A A G G A G A A A A G GCAACAAGGGGGGGGGAAAGGGGCCACAAAAAAAGATA GAGGACCAAGGGGAAAGAAAAGGGAGGAAAGAACCAAAAAAA G G GCCAAGGGGAAGAGAAGAACCAAGGGGAGGAGGTTAGTTG $A G G G G G G A A G G A A G G G G G G G G G G A A G G G G A A G A G A A G A A G A G$ $A G C A G G G G A A C G G G G G A G G G G G G G G G G G G C A G G G A G A A A A G G$ GAAAAGAGGAAGGGGGAAGAGGGAAAAAAGGGAGGAAAACAC AACAGAAGGGGGAAAAAAACCGGAGAACCGAGGGGGGGAAAA GAGACAAACAAGGGGGGAGGGCCCCACGAGGGGAACAGAGCG A G G G G GAACGGAGGAGAAGGGCCCCGGAAAAAAGBAAGGCCC C G GAAAAGGAACCAAAAAAGGAAGGGGAGAAAACCGGGAAAA A G G G G A A G G A G G A A A A G A C A A G G A C G A A A A G G G A A G G G G A A A
 GAAAAGGAAAGAGCCCCAAACAAAAAAGAGGGGGGACABAGG G G G G G G G G GCCCAAGAGGGGGAGGAGGAGGAAAGAAAGAAAG
 AGGACGGGACAGAGGGAAGAAGAGGCAGAAAAGAGGAGAACA AAAGGGGACAACCACCAGAAAAAAAAAACGGGGAAACGAABA CAGAGCAAGATAGGGAGGGGGAAGGAAAGAAGGAAAACAAAA A A A A A C C C C C C G G A GAGGGGGGGCCAAAACCAAG GAAAAGGG G G G A A A A A G G G T T G GAGAAAAAAAAAAAACCAAGGAAAACCG A A A G G G G G G G G A G A A G GAAAAACCGGAGCCAACCAAAAGAGGG GACCCCCAGAAAAAAGAGACCAAGAGAAAGCAGAAGAGGGGG AAGGGAACAACGGGGGGAGAAAGACAAAGAGAGGAGGGGCCG A G G A G G G A A A A G G A G G G G A G G A G G G G G A C G G A A A G A G A G A G G GCAA C G G A A G G G G G GAAAAAGGGAGCCCCAAGGGGAGAAGAA G G GCAGGCGAAAAACAGAAGGAAGAGGGACCAAGGGAAGAAA A A A G G A A A A C C G G A GAAA GACGAAAAGGAGATAACGGAAAA G GCATTGGGGAACCGGAAAAAAGAAAGGAAAGGGAAAAGGCCG GAGAAAACCAAAACCGGGGAAAACCAAAAGGGAGGGAGGGGA A G G G G A A A A G G A G G A G A G G A GAGGGAAAAAAGGTTAAA GA G G A A G G G G G G GAAAAGGAAGGCCGCGAGAAGGAACGAAGAAAGG CACAACCAGGGAAGAGAGGCAGAAAGGTTCCGGCCAAGAGGG G G G A C C C A A A A G G G G C C G G A A A A A GAA G G G GA GAA G G A A A G G G G G C C A G A G A G G G G G G G G G A G G G G A A G C A C C A A A A G G G A G G A A G G G GAACAACAAAAGGGGAAAAAAAACCAAGGACTTGAAAG $A A C G G A A A G G G G G G G A A G A G A G G A A G G A A A A G G C C G G G G G G G$ A GAGAGGAACGGAGAAAAAGGGGAAGGAAAAAACCCCGAA GA $A C C A A A A A A A A A A G G G G G A C A G A C C C A A A G G G G A A G G A A A C B$ GAAGGAGAAGGCCAAGAGGAAAAAACCAAAAGGCCCAAGGGA

GAAGGCAGGGGGGGAAGGGACAGAAGAAGAAGGAAAAAAAAG G G G A A G G G G A A G G G G G G G G G G G G G G A G A A G G A A A $\mathcal{A} A G G G C$ G A A GAAAAAGGGGAGAAAAAAAGCAAAAAAAGGAGGGGAGAGAG G G G G GACCAAAACGGCAGGAAGGGGAAGGGAGGGGGGGAGAA A G GAGCCAAGGAGACGAACCCAAACAGACAGACAAGGGAGGG G G A G G A G C C G G G A G G C C G A GACCGGGGAGAGAC GATTGAGAC CAGGGGGGACCGGGAAGGGGAGGCAGGCCCCCCAAAAGAAAC CACAACCAAAAGGGCGGGAAGGGGGAAAACAGGAGAAGGGGA
 GAAGGGGCAAAAAGGGGGGGGAAGGAAAGGGAAAAGAAAGGG G G GCAGCAGAGCCCACCAAGGGGTAAAGAAGAGAAGAAAGGG GAAGGGAAGACGGACAAAGGGGGAAGGAGCAGAGGAAGAAAA
 G G G A A G A G G G G A A A A A A G A G G G A A A G GA A A GATCGGGGACA G AAAGGCCAAAAAACCAAGAAATAAAAAGAGGCCAGGACCGGA A A A A A A A A A GAA G G GAAGGGGAACCAAGGACGGGAA GAAG G T $T G G G G A A G G C A G G G A C C A A A G G G G G G A A A G A A G A A G G A A G G G$ A A G G G G G G GAGACAAGAATGAAAAAGGACGGGAAAGACAAGG

 A G G G GCCAAAAGGAAAAGGGGGGAAGGTTGGCGAGAAGGGGA A A GAACCAAGGCCGGAAGGAAGGAAGGGGAAGGCCAGGAAAG G G A A A A GCCAAGGCCAAAAAAGGAGGGGACCGGAAGACBCCG A GAA A G G G G C A GAA A G G G A GAA A G GAGAGGAAA AG G GA A A A A A G G A A $\mathcal{A} G G G G G G G G G A A C C G G A G A G G G G A A G C C G G A A$
A GAA A $A$ GAAA $A$ A A $A \operatorname{A} A A A G G G A A G G G G G G G G A A A A G G A A A A G$ GCAAGACGGGGAGGGACGGGACAGGGGAGCCAGGAGAAAAAG G A A A A C A A A T T G A GAGAAAGGGGGGGGGAGGACAAAA GAGAA $A G G C C G A G A C A G G A G A C A A A T G G G A A C G A A G A A A A A G A G A G G$ GAAGGAAGGAGAAAGCCCAGGCAAAAAGGAGGGGGGAAAAAG A A G G G A G G G A C A A G A G G A A G G A G G A A G G G A A G G A G G G G G A C A AAGGCAAGGGGGGCCGGAAAACCGAAAAGAAAAGGAAGGGAG GAGGGGGACGGAACCAAGGAACCAAGAAAAAACGGAAGAAAA G G G A A A A T T G G A GAAG GAGCCAGAAAGAAACAAGGGAAAAGA $G C C A A G G A A G G G G A A G G A A A G A A G G A A C G A G A A G G A A C C G G A$
 A A A A GAAGGGCGGGACCGAGGAAGGGGAAAAAAAAGAAAAAG GAA A A GAA A GA A A G G G GAA $A \operatorname{AGGGGGAGGAAAAGGAGGAAAAG}$ G G G T A G G G G G A A G G A G G G G G A A A A A A A GAA A $\mathcal{A} A A A G G G G G G G G G$
 $G C \subset A A G G G A G G C A A G G G A A A A G A G A G G A G G C A A G G G G G A A A A$ A G G G G A A C A G A A G G G G A G G A G G G A A G G C C A G C A G G G G A A A G G GAGCAGGGGAAAAGGATGACGAAGGAAAAAAAAGGAAGAGAA A G G G G A A A A GC G G A A G G A A G G G G G A A GAC G GAAA G G G G G C C A GAGGGAGGGGGAGAGGGAAAGAAAAAAAACCCCAAGGGAAGAG $G G G T A A A G G G A A A A A G G C C G G A A A A G G A A G A G A A A G G G G G G A$ A A A G G A A A G G A A G GAGAAAAAAAGGAACCAAGGGACCCAGBC $C \subset C G G A A A G A A G G A A G G A G A G A G A G A G G G A G G G A G A G G A A G A$ A G G GACCAGAAAAGGGAGGTAAAGGGAAGAACCGGGGAAAAG A A G G G A G G A G G G A A A G A A A G GA A A A G G G G A A A GAC GAAA A A A A G GAAAAGCGGCCAAAAGGAAGGGAAGAAGAGAAAGGAAA GA GAGAAAGAGAGGGGAGGAAGGAAGGCCAGGGAAAAGACAAAA AAAAAGGAACCGGAAGGTTAACCAGAAGGGGGGAAAAGACAA AA $A$ AC G GAAAAGGGGCCAAAGGAAGAGGGAAGAGAGAAGGGG G G G G G G G C C A A G G G G G G A G A A A A G G A A A A C C G G G GAAAA A A G GAGTAGAAAGGGGGGGAGGGGACGAAAAAGGAAAAAAAACAA TGCAGGACCACCCGGGGGGAAGGAAGGGGAAGAGGAGAGCCC C G G G G A A G G G A G G G A G G G G A A A A A A A A A A C C A A G A G A A A A A G GAAAAGGCAGGGGGGGGAAGGAAAAAAGGAAGGAAGGAGGAT

A G GAGCAAAGGAAGGAAAAGCCCCCGGAAAAACAAGGCAAGG GAACCGGAAGGAAGGAGGGAGGGAAGGAAAGGGGAGAAAGAA A A A A A G G G GCCACGGCCGGTTGAAGAAGAGACCAGGAAACCG A GAGGAAGGGGCCAGAGTAAGGAAGAGAAAAAAGGGGAGGGG GAAAAGGAGCCAACCGGAAAAGGGAAGGGGGGGAAGGATGGC CAA $A \operatorname{GG} A A \operatorname{ACCT} T C C G G C C A A G G A G A G G G G A A A A A G G G G G G A$ A G G A A A A G G GCCA G GAA $\mathcal{A} A A A A G G G G G G G G C A A A G A A G G A A A G$ GCAGGAAAAAAAGCCGAGAAGGGGGAAAAAACCAAGACAAGC CAAA GAAAACCAACAGGAGAAAAACCCAAAGAGAGGAGGGGA G G G G GCCGGAAGGGGAAAAGGAAAGGGAAAACCGAGGAAAAC AAAGGAAAAAAGGAGAACAGGGGGGCCGAAGGAGAAAGGCCG GCCGGAGGGACGGGAAGAAAAGAAAGGAAAACCCCAAAGGCA ACAAAAAAAGAGGAAAAAAGGGAACGGAAAAGAAAGGGAAAC
 GAAGGGGAAAAGGCCAAGGGGAAACAGCCAAAACAGGAGGAA AAAAGGAAGAAGGGGGGGGAAAAAAAATTCCGAGAACAAAAA GAAACAAAAAAGGAAGGAGAGAGGGCCGGGGGAGAGGAAGAA AAACCGAGAAAAAAGAAAAAAAAAAGGAGGAAGGAATAGAGG $A C C A A T T G G A A C C A A A A G G A G G A G A G G A G A A G G C A G G G A A G G$
 CAAGAGAGGCAAGGGGGAAGGAAAAGGAGCCAAGGGGCAAAA AAAAAGGAGGGGGAGCCAACAGACACCGGGAGGAAAAGAGAA G GAA A A G G GAA $A \operatorname{AGGGAGGGAAGAAACCAAAGAAGGAAGACCA}$ C GAGAGAGAAAGGGGGGAACCAGAAAAAAGGAAGGAACCCCG GAAAAGAAGAAGGGGAAGAAACCAAAGCGGAAAGGACAAGGA GAACGCCAACCCCCCGACCAACCGGCGGGAGAAACACAAGBA
 A GACCAGGAAAAAAAAAAAAAAAGGGGGGACAGAGCCCAAC G A G G G G A A A A G G G G A G A A A A GAGGAGCAGGTTACGGGGCCCAA A G G G GAGGGAGAAAAAAGGGGAAAGGAGAAAGGAAGGAAAAG GAAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} \operatorname{A} A \mathrm{G} G \mathrm{G} C A A A A A G G G C A T A A A A A A A G G G G G G G G G$ G G GAAAAAAGGAACCGAGGAAGGAGGGCCAAAACCGGAAAAG GAAAACAAAAAAAAAAAAAAGAACCCCAAGGAAAAGGAAAAA A G G A A G G G G G G G G A A A A G G G A G A A C C C C C G GAC G GC C G GAA $\mathcal{A}$ G GAGGGGAAGAAAGAAAAGAGGGGGGGAAAGGGGGAAAAAAG A G G G G A A G G G G A A C C A A G GAAAAACCAAGGGGGA GG GAAAA G G GAGGGAGACTTGGGAAGCAAGAAAAAAAAAAACGGAAAAGAG A A A A A A G G GAAAGGAAAGGAAGAAAAGCCAAGGGAAAAAAAC CAAGGGGAAAAGGAGGGAAAACCAGACAGAGAGAAAAAAGAA CACGGGGAGAGGAAGGGAAGGGAGACGCCAAAGGGCCGAAAA A GACCAACCAGGAGAAAAGGGAAGGAAAAAAAACCAAAAAAG GAGAAGGGAGACGAGAGGGCAGAGGGGGGGGCCAAAAACGAG GAAGGAAAAGGCAGAAGGAGGGACATAAAGGGGGGACAGGAA G G A G G G A T A G A G G G G G G A A C C A G G G A A A G G GAA A A A A G G G A G G G GCCGAAAAGCCGGAGAAGAAGGGAAAAAGAAAACCAAGGG G GAACAGAGAGGAAAGGAGGAAAAAAAAACACAAGAAAAA GA A A A A G A A A GACAA GACCAGAATAGGCCAGAAAGACAAAAAAA A GCGGCCAGAAGGAAAGGGGGGGAAAAGGAGAGCCAAGAAGC C GAAAACAAGAAACAAAGGGGAAAGCAAGGAAGCCCCAAGAA G G G A A G G G A G G G G A A G G A A A C A GAAAGATGAGGAC G GAA G G C C GAAAAAGGGAAAGGAAGGGGAAGAGGCAAGGGAAGAAACCB G G A C C G G G A A C G G T T T T G G T T C C G GAA G G TACCCAAA G GAA A A G GCC GAGAGGAAGAAGCCGAAAGAGGAGACCCAAGAAAGGG G G G G G C A G G A A C C G G G G G G G A A G A GAGAACCGGGGAGAAAAA G GAAAAGCCACCAGGAAGGAAGGAACCAAAAGGAACCGGGGA
 G G G G A A A A A G G G G G A CAACACAGGGGAACGAAAAC GAAAGGA G G G A G G G G G G G A A C A G GAACCACAGAGAGACGGCA GACAA G G AAAAGAAGGAAGGAAAGCCAGGGGGCCGAGGAAAACCAGAGA

GAAGGCCGAAAACAGGGGGAGAAGGGGGGCCAAGAGGACAAG G G G G A A A A A A G A A GAGACAAAAGGGAAGGAGAAAA G $A$ A A A A G G G G G G G A T T G GAGCAGGAGAAGAGGAGAGCCAGACAAGAAAAGG AAAGAAAAATTGGACAGACGGGAGAGAAAAGAGAAGGGGCCG GAAAAGGGAGGCAAAAACCGGAAGGAAAAGGGGGGAGAAAGA G G G G G GAA $A \operatorname{G} G A A G G A G G A A G A A G A G G G A A A G G A G G G G A A A A$ A A G GAGCAACCAAAGAAGGAAAGGGAAGGGAGGAGAGGAGAA GATGAAGAAGGAAGGAAAAGGAGAAGACAGGGGAACCGAAGA GAAAAAACCCCAGACGGGGGAGAGGGGAGGGAACCAGAAAAG G GAAAAGGGGGGGAAGGAGAGGGAGAGGGAGGGAACCGAGAG G G GCCCCGGGGAAAACCGGCCAAAAGGACGGAAGGAAGGGGG GAAAAGGAAAAGGGGGGGGGAACGGAGGAGAAGAGAGAAAGG G G GAGAAAAGAGGGAAAAAAAAAAAGGGGAGGAGAAAAAAAA $G G G A G C C G A G A G G G G A A A A G A A A G G G G G A C C G G G A A G C A C A B$ GAGAAAAGAAAACGGAAGGGGAGGGCCGAAACCGGAAAAAAA A G G G GA $\operatorname{A} G A A G G A A A G G A G G G A A A A G G A A G G G G G A A A A A G G C$ C T T G G A A A A A G A A A A G GAAAGGGAAAGGGAGAGGGGACAAA G
 AAAGAAAGAAAGGGGCAACGGGAAGGGAGGGAAGGAAGAGAA GAAGACCAGGAACAGAAGGAAAACACAAGGGAAAAGGGGGGG AGGAGCCAAAAGAAAAAAAGGAAGGAAAGGAGGAGCCGGAGG A GAGAGAAAAAAAGGGAGGAAAGAAGGCCGGGGAAGACAAAG G G G G A A C A A G G G G G G C C G G G A A C G A A G A A G G G A G G G A G G G G A A GAGAAAAAAGGGAGAAGGGGAGAGGGAAGGGGAGAAAAAAC A A G G A G A G A A A G GAGGAGGCAAAGGAACCCCAC GAAG
G GCCGGAGCACAAGAAAAAAAAAAGGCAGGGGAAGGAAAAC CAAAACAAGACAGAGAGAGAAGAGGGACAAAACAGAGCAGGG A G G A A G G C C A G A GAGGGGGGGCGAAAACCGAAAGGAAGAAAA A G GAAAACCGGAAAAGGCCAACAAAGGAAACGGAAAAAGGCA TGCAA $\operatorname{C} A A A A G A G G G G G G C C A A G A G G G G G A G G G G A A G A C G C C C$ C G G A A G G G G G A C C G A G G G A G G G A G G C C G A A G C A A A C C G G G G G G G A TAAAAAAAGGGGGGCCTAAGAAAGGAAAGGAGGAAAGGG GAGGGGAGACAGGAACCCCGCGGAAGGCCGGGGAAAAGGGAA GAAAAGAGGGGAAAAGAGGAACCAAAAAAAAAAGGGBAAGAA GACGAAACAATGGCCAAAAAGAAGGAAAAGAGGCGGGGACCB A A A A G G GCCGGAGGGAGAAGGAAGGGAGAGAAGGGAGAAAAA A GAGGGGAGGGGAGGCCCAGGGGAAAAAAAGGGGGAAAAAAA GAGAACCCCAACCAAAAGAGGGGCCGAGGGGAGCCGGAAGAG GAGGAGAAGGAAAAAGGGGAAAAGGGGAAGGAGAACCBAAAA A G GCAAAAATTACGGAGGGAAAGAAGGGAGGGAAAAGCAAAG GAAAAGGGGGGAAGGAACCCCAAGACCAAGGGGAACCAAGAG G GACCAAAGAAAGAAGGAAGGAGGGAAAAAAAAACGGAAA G G $A$ G G GAA A A GAAAAAGGAGGGACAAAGGGAGAAAAGGGAGAGAG C GAG $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} C A A A \operatorname{A} A \mathrm{~A} G A A G G G A G G G G G A G G G A G A A G A C C$ CAAGAAAAAGGGAGGCCCAAGCCGGAGAAAAAGAAGGGCGGA C G GCACCCCAAAAGGAGGGAAAAGGGGAAAGAAGGAAAGGAA GAGAGAGGAGAGAGGGAGGCCACAGGGGGAGAGGGAAAAGAC CAAAAGAAAGGAAGGAAAAGGAGAAGAGGGGAGGAAAAAAAG GCCAGAGGGAAAGAGGGAAGGGGAGCAGGGAGGAAGGAGGGG
 AAACCGGCAGAAAGAAAGAAAGGAAGGGGGGCCCCGGGGGAG
 A G GAA $A \operatorname{G} \operatorname{GAAAACCCAAGAAAGCAGGAAAAAAAAGGGGGGGGG}$ G G G G GAACCGGCCGGGGGGAAACGGAAAAGGGGCCGGCCCCG AA $A$ A A GCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGAAAAC CAACCAGCCAGGGGGGGAAAAGGCCAAGGGAAGACGAGAAAC C C C A G G G C C A A G G G G G G G G G G C C G G A A G G G G G G A A G G A A A A $G$ G G A A G G G G G A A G G C C A A G G A G A G G G G G G G A A G A G A A C G G T T A AAGGGAAAACAAGGGCCGGGGCCAGGGGGCAGGCAGAACAAA

G G GAAGGCCGGAAGGAAGGGGAAAAAAAAGGCCGGGGAAGGA A A A G GACAGGAAAGGAGAGAGAGAGAAGGAAAGAGAGAGCAC C G GAGAAGAAGGGCCAAAGAACCGCGAAGAAGGAAA GGGGGA $A C C A G A A G G A G G G G A G G A G G G A A G G G G A A C A G G A C G G G G G G G$ GCCGGGGAAAGGGGGGGCCAGGAAAAGAGCCAGGGGAAAAGA
 AAAAAGGCCCCCCGGGGAAAAGGGGGGAAAAAAGGGGGGGGG GAACCAAAAACGAGGGAGGAGAAGGAAGGGGGGGGAAGAGAG G G G GAAGCCAAGAAAGATTGGAACACACXAGAGAAAAAAAAG G G GAAAAGGAAGGAAGGAAGGGGAAGGAAGGGGGGAAAAAAC CAA $A \operatorname{GAA} A C A A A A G G G G G G A A G G G G A A G G G G G G G G G G G A A A A$ A G G G G G G A A A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A G G G G G G A A A A G G G G A A G G G G G$
 C C C G G G G G G A A G GCCAACCAAGGAAAAAATXGGAAGGGGGGA AGGGGAAAACCGGGGCCGGAAGGAAAACCAAAAGGAAGGCCA AAAAAGGCCAAGGAAAAGGAAAAGGGGCCAAAAGGGGCAAAAA
 A A A G G G G G G G G A A A A C C G G G GCC G G G G G G T T A A A A A A A A G G G G G G G GAA $\operatorname{G} G C C G G G G A A A A C C G G G G G G A A G G A A A A G G G A A A G$ GCCAAGGCCAAGGGGAAAAGGGGCCGGGGAAAAGGAAGAAAC CAACCCCGGCCGGGGAAAAGGGGGGCCCCCCAAGGAAGAAAG G G G G G G G A A G G A A A A G G G G G G C C A A G G A A G GAAAA A G C C G G G G G G A A G G G G G G A A G G C C G G A A A A A A C CAA G GC CAAAA A G C C G G G G A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G G G G G C C G G A A G G C A A A G$ G G G A A A A C C A A G G G G A A A A A A A A GGGGGGCCGGAAAAAAG G G
 A G GAAAAAAAAGGAAGGGGGGAAAAGGAACAAAGGGGGAAAG GAAGGAAGGAAAAGGAAGGCCGGCCGGAAAAAAAAAAAAAAG GAAGGAATTGGGGAAAAGGAAGGGGAAAAGGGGGGGGCAAAA A G GAA A G G G G G G GCCAAAAGGAAGGAAGGAAAGACAAGAGAG $A C A G A G A A A G A G A G G A A G A A G C A G G A A G G A G A A A A A G G G A G G$ AAGGGACGGAGAGGAGAAAAAGAGGGGGAGAAGCAAAGAAGAA
 G G A A G A G C A A G A G G GA $\mathcal{A} G G G G A C A C A C G A G G A A G G G G A A A C B$ A G G A G A G G A G G A A A G C A A G A A G G G G G G A A G G A A G A A A G A A G C
 C GAAA A A GA $A \operatorname{A} \operatorname{A} A A A A G G A G G G A A G G A A A G G G G G G A A G A G A A C$ CAGAACACAAGGGAGAGGAGGAAAGGGAAGGAGAGGGCAAAC C GAGAGAAGAGAAAAAGGGAAAAAAAAAGAGGACAAGAAAC G GAGAAAGAGCAGGGGAAGAAGGAGAAACCGAAAAAGAAAAGG GAGGGCAAGAAGAAGGGAAAAAGAAGGGGGGAAGGAAAAGGG
 GAGAAAGAAGGGGCCAGGAGGGGAAAAGAAAAGGGGGAACAA AAAAACCGGAAACAGACAGACAGGGAACCGGGAGAAAGAAGG A ACAAA A A GAA GACAACGGAGCCAGGAAAAAAGACGGAAA GA G C A G G G G G A A C G G A GAGGGAGGAACAGAGGGGACCACAGA G G GAAAAGGAGAAGGGAAAAAGGCCGGAACAGGCAAAAGAGAAG G G A A G G G G G G G G G A G G A G G G G G G G G GAGGCCAA G GAAAAAAC C G GAA A G G GAAAGAGGAGGAAAAAAGGGGAAAAAAAACAAAA
 C CACCGGAGAGGAAAAAGGAAGGGGCAGAGGCAGAGACAA GA GA $A$ A $A G A A G G G A G A A A G G G G G A A A A G G G G G G A G G A G G G A A A G$ GAAAAGGGGAGGGAGAGAAAAAAAAAAAAAAGGAAAAGEGGA AGGAAGGCCGGAAAAGGCCGGAGAAAGGGGACAAACCGGGGA $A G G G G G G G G G G G G A A G G A A A A T T G G G G A A G G A A G G G G G A A A A$ A G GAAAAAAGGAAAACCGGAAAAGGAAGGGGACAACCAAGAG GAGAGGGCAAGGGCCAGGGGAAAGGAAAAGGGGGAGGACGAG GAAAAGGGGAGAGACAGCAAAAAAGAAAACCGGAACCACGGG AAACAAGGGAGGGAAAGATAAAAGGGGAAGGAAGGAAAAGGG

GAGGGAGGGAAGGGGGAGAAGCCGGAAGGAAAAGGAAAAAGA G G G A A G A G G G G A G G A G G A A A A G G G G A A G G G G G G G A G A G A A G G GAAACACCCAACCGGGGGAAAAGAGCCCATTAGAGGAGABAA GCAAAAAGGGGAGGACCAGGAGGGGAAGGGGGGGGGGGGGGC CAAAAGGCCAAGGAAAAGGAAAAAAGGAAACAA GGAAGGGGA A A A G G A A A A A A A A G G A A A A A A A ACCCCCCCCAAACAAAAG GA GAGGAGAGGCAAGGGGAGGGGCCGGAAAAGGAAAAAGGAGGC CAAGGGGAACCCCGGAAAACCGGAGAAGGTTGGGACAGAGAA
 GGGAGCCGCGGACAGACAGAAAAAAGGAAGGAA GAGGCCGGG GAAAGGAGGGAGAGGCAAAGAAGAGGGAAGGAAGGAAAACAA AAAAAAACCGGGGAGAGGGAGAAAGACGGAAAGAAAGAGAGA A A A G G A A G G G G G G A A A A A $\mathcal{A} A G G G A A A A A A G G G A C C A A G G G G G$ GGGAAGGAAAAAAGGAACAAAGAGGAAGGCCGCAAGGCACAA G G GAAAA $A \operatorname{ACA} A A A A A A A A G G G A A A G G G A A C C A G G G G G G G G G G$
 G G G A A G G G GAA $A \operatorname{G} C A G G A G G A G G A G A G A G C C A C G A G A G A A A A$ GAGGGGGGGAAGGGGAGGAAAAAAAAATAAGGGGGACAGGAA GAGGGAACCACGGAGGGGGGGAAGGAAGGAAAGAAAGAAAAG GCCGGAAGGAGAGAAAAGGGGCCCAGAAGCCCCAACCAAAAA AGGAAGGGGAAAAGAAAGGCGAGCAAAGAAAGGAAAAGGGAC AAACCCCGGACAAGACAAAAAGAAGACAGGAGAGGGGTTGGG GAAA A A A A A A A G G G G G G G G A A A A G G G G G A A C GAA A A G GAC C A G G G A A A G A A G G G G C C A A A G A G A A C CAAAATTAA G GAGGGCCA A A G G GCCGGGGGAAGAAGGACGGGGAAGGGGGGAAAA
AAGGAAGGAAGGAACAGGAACCAAGGGGAGGAAAAGGGGGG GGGCCAAACAACCGGAGCCCCCCGGGAAGAAGGGGAACAAAAA G G A G A A G G G G A GA G A A A G G C C G G T T A G G G A A A G A G G G G GA C A GAGGGTTAGAAGAGAAGAAAAAAGAGCGGAAGGGGGAAAAAG A G G G G G G G GAA A G A GAAAAAAGAGGGGGGGGGGGAGAAAAAAG G G G A A C C G GAGGAGAAAAGATGGGGGGCCAGCCAGCAAGGGG GAAAACCAAAAAACAAAAAGGGGAGGAAGAGGGAAGAAGAAA A A A G G G G A A C A A G A G G G A G G G G G A A G G G A C A G A G G A A A A G G A A G G A A G G G GAA $A \operatorname{GGGGGGGGAAAAAGACGGAGAAGACCAAGGG}$ A A A A A G GCCAGAAAAGGGGAAAAGGAAGGGAAACCAA GAGAA G G GAACCGGGGCCGGGGAAGAGGAGAAAAGGGAAAGGAGGGG GAAGAATAAAGAAAAAATTAAGGAGGGGGAGGAAAGAAGGAG $G T T C C G G A A G A G G G G A C A G A A C C G G A A A A A A G A G G G G A A C C G$ GAA A G GAGGAAGGAAGGAAAAGGACGGAAGGAAGAGAAGACA GAAGGAAGGAAAAAAAAAGGAGGAAGGGGAAAAAAAAAGATC GAAAAACGAAGAGAGGGCCAGAAGAGAAAGAATAGAGAAAAG $G G G C C G G G G G C G G G A G G A G A A A A G G G G G G A G A G C C A A G A A G A$ $A C C G G G G G G A A A C G G G G A G A G A G A G G G A G A A A A G G G G G G C A A$ T G G G ACCAAAAACAAAAAAGGAGAGGAGGACCCGGAGAGAAA A ACAAAGGAAGGGAAGGCCAGCAAGGGAACCGGCCAAGGCCG GCCCCAGAGGGGAAGGGAAAAACGAAGGAAGGGGGGAAAAC G G GAGACAAAGGGGAAAACCAAGGAACCAAAAAAGGGGCAAAG G G G G G G GAAGGGGCCAACCAAAAAAGGCCAAAAGGGGGAAAC CAAGGGGGGAAGGCCGGCCAAAAGGCCGGAAGGAAAAAAAAA AAAGGGGGGAAGGCCTACCAAAAATAAAGAGAAAAAAAACAA A G G G A A A A A A GCCACAAGGCCCAAAGGAAGGAGGGAACACAA
 A A A G A A A A A A A A G A G G GAA GAGAACGAAGAAGAGAAACCGGT TAAAGAACCGGGAGGAAGGGAGGCCAAAGAAAAAAAAAAAAA AAAGAAAAATTCAAAGAAAGAAAGAGGAAGGAGGAAAAAGGG $G G A A A A G G G G A A A A G G G G A A A A A A A C C A G G C A A A C A A A A G G A$ G GAGGAAGGCAATAAAGGACAGAAGAGAACAGGGGGGGGCCA CAAGAGAGAGACCAAGAAAAGAGAAAAAGGACAGGAAGGGGA AAAAAGGCCAAGGAAAAAAAACCCCGAGGGACAAGGGGACAG

GAGGGAAGGAAGAAAAAAGCCGGAAAAAAACGAGGGGGGGGA
 G G G G G A A C C G G G G G G G GC C A G G G A A GAGAGGAA A A G GAAC C G GAATACCGGCCAAAGGGGGAAGGCCGGGGGAGAAGAACCGGG AAAGGCCGAAGAGAGAGAAGAGAGGAAGGCCCCAAAGGGGAA A G G G G G G TACCAAGAAATAGGAAAAGACCAGACAAAAGGGAG A A A A A A A A A G GAA $A \operatorname{GAAAAACCAGGGAGAAGGGGGGAAAAAAG}$ G G GAGAGCCAGGGAGAAGGGGGGGAGGGGAAAACCAAGAAAG A A A A A A A A C G G A A G GAGGGCCGGAAGAGAAGGGAGA GA G G G A AAAAAGGAGACAGGGAGAAAAGGGAGACCAAGGGGAAAAGGG A G G G G GAGGAAGGAAAAGAAGGAGGAAGGACAAAAGAAAAGG A G G A A A C G GAGCCGGGAGAGAGAAAAAAAACAAACGGCAAAG G G G A A G G G GAA A G G G G GCC G GACGACAGGAAGAAAAAGAAAG
 G G G GAAAAGACGAGAGGAGAGCACCGGCCGGAGAAGGAAGGA A A A A A A A A A A A A A G GCCAAAAAAAAGGGGCCAACCAAGGGGC C G G G G G GAGGGAAAAAAAAGAAGAGCCGAAAAGGAACAAA GA AAAGGGGAGAGAAGAGCAGGGAAGGAACCAAGGAACCAGAGG $G C C G G G A A G A A G G G G C C A G G C A G A G A G A A A A A A G G G A A G A G A$ G G G A A G G A A G G A A A GAGAACCCCGGAACCAGGACCAA GAAAA A A A G GCCAGATGAAAGGAAGACCACAAACGGGAGGGACCGGA G G GAGGAGAGGAGACAGGGGGGAAGGAAAAGGGAAAGAAGGG G G G A A A A G GAGAACGAAGGCCGGAAGGAAAAGGGGAAAACAA A G G G G A A G A G G G A A A G A G G A A A G GACA $A \operatorname{A} G A A A G G G G A G A G G G$
 G GAAAAAGGAAGGAAGGCCCCGAAGGAGGCCGAAAAAGACGG C GAGGAAAAGAGAGGCCGAAGACGGAAGAGAAGACAAAGCCA C G G A A A A A A G G A A G G G G G G A A G G C C C C G A A G G G A G A G A A G G G G G G G G G G A A A GCC G A A A A A CAGAAAGGAGGGGGAA GAAAGAA C GAAAAGGGAAAAAAGGGAAGTAGACAGGAAAGGAACGAGAG GAAA GAAAAAAAAAAAAGGAGAAAAGCCCGGAAGAAGAAABA GAAAAGGAGGGGGGAAGGGAAGGAAAAGGGGGGCCAAAGAAA G G GAAAGAACCAAGCGGGAGAGACCGGAAAAAAGGGGGACAA $A C C G G A A A A A A G G A A A A A A G G A A G G C C G G A A A A G G G G A A G G C$ C G G A A C C A A A A G G G G G G G G G G G G G G A A A C C C C A C A G A G G C C G G G G G G A A G GAACAAAGGGACGCAGAGGGGAACCAAAAGGGGA A G GAA A GACAACCCCAGGGGGGGGGGGAAGGGGAGAGAAAGC CAGAAAGGGGAACAGGGAAGAAAAAGAGGGAGGGAAGAAAAG A G G G G GACAAACCGGCCCCGGGGAAAGGGGGAAGAGGCCGAC C G G A A A G G A A A A A A A A A A A A A A A A A GAA GAACCAAA GAAA G C CAAGGAAAGAGACGAAGGGGGAGGGAGGGGGGGGGCAGAAAA A A A C C C C G GCCAGGGGGCAGAAGCCAGATAAAAAAGACAAAA G G G G G G GCCAAGGAGAAAGAGAAGGAAAGGGAGGGAAAAAGC C G A A A A C A GCCAAGGACGGGGAAAGAAAAGGAAAC GAAGAAG G G G G GAGCAGGAACCCCGGGGCCAAGGGGAGGGCCGGAAAGG A G GAAAAAGACGGAAAGACGAGGGGAGAGACAGAGAAAAAAA AAAAAGAGAAAAGCAACAGGGAGAGACCCGGAAGAAAAGGAA A GAGGGGGAGGGGAAGGGGGAAAAGAAGGGGAGAGACAAAAA A GAAGGGCCAACCAGCACGAAAAGGGGGGGGAAGGGGGAAGA G G A A A A G C A G G A G A GAACAGAAAAGAGGGAACCAATTGAGAC
 GCAAACAAACCCCAAAAAAAGGGCCAGAAGGCCCCCACCGGA AAAAAGGAACCAAGAGGGGAAAAAAAAAAGGAACCGAAGABA A A A A A A A GAGGGGGAAAAAGGCCCCGGAAAAAACCAAAAAAA A A A A A A TAAAACCGGGGAAAGAGAAGAAGGCCGGGGAATAC
 A G G G G G G G GAA A A G GCCGGAGACCCAAGAAGCAAAAAAGAGC
 GAGACGGGGAAAAAAGGGGAAGGGGGGAAGGGGCCAAGGGGA

AAAGGAAGGAAAAAACCGGAAGGAAAAAAAAAAGGGGGAAAA
 A A A A ATTCCGAAAACAGGAGGAGGGAAAGCCAAAGGGAACCG GAACCCCCCAGAAGAGAACAGAAGAAAGGAAGGGGAGAGAAA G GGCAGGACAACCGGAAGGAAAGAAAAGAAGAA GAGAACGGA C G G G A G G G A A A A G G G C C G G G G A A A A C A G G A A A A G G A A A A G G C CAAAAGGAAAGAGGGAGGGAAGAGAAGGAAGAACCGAAAAAA AACGAGGGGAAAAAGAAAGCCGGAAGAAGCCAGACAGGGGGG
 GAAGGAAGGAAGGCCGGAAGGGGGGGGAAAAGGGAAAGBCCA ACAGAGGAGAGGGGGAAGGAGGGACAACAGAGGGGAGCAGAA

 ACCGGAAGAAGAACAGGGGCAGGAGAAACGAGGGAAAGGGGA
 GAA A A GAGAGAGGGGGGGAGGAAAAAAGGAGAGGGAGAACAA A A A A A G GAACCCC G GAACCGGAAAAGGAAGGAAAAAAGGTTG GAAGGAAGGGGCCAGGGGGCCGGGAAAGGCAAAGGAAAGAGG $G G A A A A A C C C C G G A G G G G G A A A A C C A A A A A G A A G G G A G A A A G$ GAAAGGGGAGAAGCCAGAAAAAACCACGAGGGAACAGCAAGC AAGGAAAGGGGGGAAAAGAGGAGGGGGACGAAGGAAGAAGGG G G G G G G G A A A A A A G GC C A A G GAACCGGAACCGGAGGAGGGGG GCCAGGGGGAAAGCCAGAGGGAAGGAAAAGAAGGGGGCAAAA A G G G G G A T T G G G G G A G G A A G G G G C C A A A A A A A A A A A $G$ G G G G G G GAAAAGAGGAGGGAGGGAAGACAAGGAGACAAGGGCC
AACCAAAGAGGAAGCCAAGAAAGGAAGGGAAAACAAGAGCA $A C C A A C C A A A A G G G G A A A A C C G G G G G G T A A A A A G A A A G B A A C$ C G G A A A A A A G GCC G G G GAACCAAGGAAAAGGAAAAGGCAAA G GCCAAGGAAGGCCGGCCAAGGGGGGGGAAAAAAAAGGAAAAA A G G A A A A A A A A A A G G G GAAAAAAAAAGGGGCCCCGGGAAAGGG G G G G G A A A A G G A A C C G G G G A A G GCCGGAACCAAGGAAAAG GA A G G G GAA $\operatorname{A} G A A G G A A G G A A A A G G G G G G A A G G A A A A A A A A A A G$ GAAAAAAAAAAAAAGGAAAGAAGAAAAAAAGGGAGAAGACAA A A A G GAA $A$ A $A G A A C C A A A A A A G G A A G A A A A A A G A G G A G A C B A$ A G G G G G G G G G G A A G GAA A G G GCCGAGAAGAAAACCAACAA G C
 GAAAGAAGGGAGAGGGGGAAAGGGAGAGACACCGGAACAAAA $A C C A A A A A A G A G G A G G G A G A C G A A G A A G G G G A G G G A A A G G G G$ A G GAA A GAGAA $A \operatorname{AGGGC} C \subset C A G G G A A A A A G G G A A G G G G G A C A A$ A A G G G G A A A A G A G G GCACC C $\mathcal{A} G G G G G A G A G A A G G C C G G A A G A G$ A A A A A A A G GAGGA G CAGGGCAGGAAGAAAGGGGAAGGGAGAA A A G G A A A C C A A A A C A G G G G G G G G T A G A A G G G C A G A G G G G A A A AAAGGAAGGGGGGGAAGAAGGAAGGAAAACCAACCGGGGGGG GACAGGAGAAGGAAAGGGGAAAAAAGGGGCAAACCAAGGGAA A A A G G G G A A A A G G G G G A C C A A G G G G G G A A G G G G A G A G A A A G G GA $A$ A A A A A G C C A A $\mathcal{A} A G G A G A G A C G G G G G G G G G G G G A A A A G A C$ CACACAGGGGGAAAGAAGAGGCAGGGGGGCCGGGGAGGAGAG A G G A G G G A G G G A G G A G A A A G G G G C A A A G G G G G G A A G A A G A G G A G G GAGGGGAGAGAGCAGACCCCGAGGGGGGGAACAACAAGG G G G GACCCCCAAAGAAGGACAGGACAAGAGGGGAAAAGGGGA $A C C G G G G G G A A A A C C G G A A A A C C G G G G C C A A A A A A G G G G T T G$ G G G G G G G C C G G G G C C A A G GAAAA A G GCCAAAAAAAACCAA A G G G G G A C A A A A A A G G G G G G G G A A G A G A A A A C G GAAAAAA A A A G G G G G A G A G G C C G A A A G G A A G G G G A G A A G A A A G G G A A A A A G G G G G GAGGGAGCCAAAGGAGGGGAAGGGGGACCAAGGGGGAAAGAG G G G A A C C C C A G G GAAGCAGGGGGAGGAAAAAAAACAGGAAAA
 CAACC GAGAGGGAAACCGGGGACGAGAGGACAGAAAACCGGA AACGGGGGAGAAGAGAAAGAGAAAGCAAAGGAAGGGGGGGGA

A G GAAA A A GAA A G G GAATTAGGGGGGAGAAAAAAAGGCAAAG G G G G G A A A A A GACAAAAACGAGGAACCAACCAGA GAGGAGGG GCCGGGGAACAGGGGGGGGAAGAAGGGGAGGAAAAGAAGAAA GAACCGGAGGGACAGAGAAGGGGTTAGCCGGAACCGGAGGGG G G G G G G A G G G G G G G GAAA $A \operatorname{AGGGAGGAACAGGGAAAGAAGAAA}$ AA $A \operatorname{GGG} \operatorname{GGGGGAAGCACCAAAAGGGCAAAAAGCCGGACAAAAC}$ CAAGGAAGGCCAAAACCGAGGAAAAGGGGGGGGAGAAGAGGG GACATGGAAGGAAGACAAGAAGGAGCCAAGGAAAACCAAAAG GAACCGGGGAAAAAAGGAGAACAGGGAAAGAAGAGAAAAGGG G GACAAGAAAAAAGGACAGGGGGACAAGGGAAGAAAAAGAAA A G GAACCCCCCGGAACCACAAGGAAAAGGAAAGGGAGAAGAG A A CAA $A \operatorname{GAAAAAAAAAACAGAAACGGAAGGAAAAGGGBAAAAA}$ A A A G G G G G A G G G G A G G G A C G G A A G G G G A A A A A A $\mathcal{A} G G G G A G A G$ G G G G A G G G G A A G G A C G A G G A A G G A GAA A G G G G GA GAAAAA A C C CAA $A$ A A A GAGAAAAAGAGAAAAAGGGGAAGGGAACCGACAA AAAAGCAGAGAAAGGCCGGAAAGAGAGAAAGAAGGAGAAAAA
 G G GCAGGCAAGAAGGGAAAGGGGGAAGCACAGGAGGAAAAAG AAAGGGGGGAGGGCCAAAAAAGGAAAAAGGAAAAAGAGGGGG G G G A A A A A A G G A A G A G G A G G G G G C C A G G G A A G G G A A C A G G G A $A C C G G G G G A C A A A A A G G G G G G A A G G A A A G G G G G G A G A G A C A A$ A G G G G GAGGCCGGAAAAGAGGGAAAGGGAGAGGGGGGCAAAAA A G G G G A A A A A A A A G GAAAGGGGAAAAAAAGAGGGGGA GAAAAC A G G G G G G G GAACCCCAGCCGGCAAGGAAAGGCCAGACGAAGB G G G G G G G C C G G G G G A G G G G A A G G A A GAGGGGGGAAA A A A A A A A GAGGGGGGGGGGGGAAAGAGAGAGAGGAAGGAAGGAAAGAG G G G GACAAAAACAGGGAAGGGAAGGAAAGGGCCAAGGGAABA GAGAAAGCCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGAAAA A A A A A GAAA A GAGGGGAGGAGAAAAAACCCAGAAAAAAAGAA GAGAAGGGGGGGGAAGACCCCACAAAAAAAAAAGGCCAACCB A G A A A A G A A G G A G G G C C G A G G A GACAGGGAGGGGGAAAAGGG GAAAGCCCCGAAAATAGAAAGCACAAAAAAGAGAAAAAAAAA A GAA $A$ A $\operatorname{A} A G A A G G A G A C G C G G A A C C G G A A A A A A G G A A G G A A G$ GAAAAGGAGACAGGAGGACAGCCAGAAAAGAGAAAAAAAGBC CAAGGAGAAGGCCGGAAGAGGCCAAGAGGGGGAGGGAGGGGG A G A A G G G A C G G G A G G G G A G A G A G G G A A G G G G A A G G A G C C G G G G G G G G G G A G G G A A A G A C A G G A G G G G C C G G G G G G G G A C C C C C $C G A G G C C A C C C A A A A G A C G C A C A A A G A A A G G G G A G A A A G G G A$ $G C C A A A C G G C C G A G A G G G A G G C C G G G A A G G A G G C C A G G G G G A$
 A A A A A A A A A A C G G G GCCGGAAAAAAAAGGGGAGGGAGGAA GA GAGGGAAGGAGGACAGAGAGGACGGGGGGGGAAAAAABAABA A A G G GAA $A$ A $C A A G G G G G G A A A A A G G G G A G A A A C G A A A C A A A A$ $A C C G G G G A A A A G G G A A A G G G G G G A G G G A A A A A A G A C A G A A G G$ G G G G G T TACAGAAAGGAGAAAACACAAGGGGAGGGAAAACAC C G G GAGACCGACCAAGGGGAAGAGGTTACGAGGAAGAAAAAA $G C A A A A A A A G G G G G G C C G G A G A A A A C A G G G G G G G G G G G G G G A$ A G GCCAGACGGAAGGGGCCAAGGAAGGCCAAGGAACAGAAAG G G GAA ACGGCCAAGGGAAGGCACGAAGGAAACAGGAGGGGAG $A G A G G A A A G G G A G G A G G G A A A G G G A A G A A G A A C B A A A G G G G G$ A G G G A GAGAGGGGGGAAAGCCAAAGGGAAGAGAGGGGAGCCC AA $A \subset A G G A A G A G A G G G G G A C A G G C A G G G A A A A A A G A G G A A B A$ C A G G A A A G G A A G G G G A A A A A G G G G G G A A A T TA $A$ G G GAAC C G A A A G G GAAAAAAAGGAACCAAGAGAGGAAGGAGCAAACCGGGGA CAGAGGGAACCAAAAGGGGACGACCAAGGAACAAAGGCAAAA ATTAAAGGGGAATAAACGGCCAAAAGGGGAGAGGGAGAAAAA A A A G G G G G G G G A A A A A A $\mathcal{A} A A G A G A A C A C A A G A A G G A G G G G A G$ A A GCC G G C G C C G G G G G G A A A A G GAA A C G GAA $\mathcal{A} G G G G A G A A A C$ $C G G A A A G G G A A A A G G G G A G G A G G C C G G A G A G A G A G G A A G A A A$

AAAAAGGGGAACCGGGAGAGGGCAGAACCGGGGAAGAAAGGG $G G A A A A G G G A A G G G G G G A A G G G G G A G G G G A A G G G A C C A G G G A$ $G G A A A A G C A A A A A A A A A G G G G A A G G C C A G A A G A A C G G G A G G A$ GAGGGGGGGGGGGCCAAAAGGAGAGAGGGACAGCCGGAACAG G GAGGACCACACCGGGGGGGGGGGGCCAAAAAAGGGGGAAGA G G GA $\operatorname{A}$ GAGGGGGGCGAAACACAAAAGGGGGGGGGGGAAAAAC C GAAAAACCGGAAGAGGGGCCGGGGAAGGAAAAGGAAGAAAA AAAGGGGCCGGAAGGGGGGGGAAGGAAAACCGAAAGGCCGGG GAAGGGAGACCGGAAAAGGGAAAGGGGGAGGAAGAAGGAAGA G G G G G A A A A G G GAAAAGAAACACGAGGAAGAGAAGGAAAAGA GAAACGGGACCAACAGGGAACCCAAGAAAGAGGAAAAAAAAG GAAAGAAAAGGAAAAGGGGAAAGAAGGAAGAGGAAAACAAAA A G GCCAAAAGGGGAAAGAAAAAGGGAGAAAAAGCCAAAACAA ACCGGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGAGGGC $C G G A A A C G G G G A G A G A A A A G G A A G G A A G G A A A C A G C C A A A A G$ G G G GAAAAAAAGGGGGGGGAGCCAGGGACAGAAAGGAAAGAA GCAA $\mathrm{C} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \subset A \operatorname{A} A A A A G G G G G A G G A G G A A C A G G A A A A G A$ C G GAA $\operatorname{A}$ GAAAGAAAAGGAAGAAAAAGAGGCCGAGAAAACGGG $G C A G A C A A A G G A G G G G G A G A A A G A G A A A G A A G G A C A G A A A A G$ G G GAAGGGGAAAAGAGAGAGACCAGCCGGCCAAAAGGCCGGC CAGGAAAAAAGAGCGAAGGGAGGGGAGAGAGAGAAAAGGGGG
 G G G G A G A G G G A A G G G G G C C G A G G G G A A C C A G G G G G A A G G G A G GAGGGAAGGAGGAGGGGAGAAGGAAAAGGAGAGAGAGAGGAC CAAAGAGAGGGAGGGAGAAAACAGACCAGCCGGGGAG
A A A GAGGAAACAAAAAAAGAGGGGGGGGAAAAAAAAGAGGA $A C A C C G A G G G G A A G G C C G A C A G G G A G A G A A A G G G A A A G A A G A$ A G GAAA A C C G G A A A GAA $A \operatorname{A} G A G A G G G G G G G A A A A G A A G A A A G G$ A A A G G G G G G G A G G G G A A G G A A G G G G G G G A A A A G G G G A G A G G C CAAAAGGAGACACACGAGGAAGGGGGAGGCCAAAAGGGAAAAG GAAAACCGGAGAACCAAGGGGGGAGAAACGAAGGGAAAAAA G GAAGGGGAAAGCCAGGGAGAGAGGGAGAGAAGAGGAGAGAGA $A C C G A A A G G G G A C G G A A G G A G A G A C G G G G A A A A G G T T G G G A A$ AAAGGAAGGGGCCCCCCAAAAGGGGGGGGGGAAGGAACAAAG G G GAACCAACCAAAAGGGGAAAACCGGAACCCCGGAAGAAAA A A A A A $\mathcal{A} G A A G G G G G G G G T T A A G G G G G G A A G G A A A A G G G G G G T$ T G G G G G GCCGGGGAAGGAAGGGGAAGGGGAAGGAAAAGGGGG $G C C A A A A A A A A G G A A G G G G G G A A A A G G A A C C C C G G G G G A A A A$ A G GCCGGAAAGAAAACCGGCCAAAAAAAAGGGGAAAAGGGAA $A C C G G A A A A A A G G C C G G C A A G G A A G G G G A A A A G G G G G A A A A$ A G G G GAA $A \operatorname{ACC} C G \operatorname{CAAGGAAAAAAAAGGGGAAGGAAGGAACAG}$ G A A A A A A A A A A A A A A G GAA $A \operatorname{GAAAGGAAGGGGAAGGGGAAT} \mathbf{A} A$ A G G G G A A G GAA $A \operatorname{ACC} C G G G G G G G G G G A A A A C C A A G G A A G G G G G$ G G GAAAAGGAAAAAAAAAAGGGGAAAACCAAGGGGGGAAAAC CAAGGGGGGCCAAAAGGGGAAAAGGGGAAAAGGGGAAGAAAG G G GCCAAAAGGAAGGGGAAGGGGAGGGGAAGAGAGAGGAGAG AAAAAAAAAGGGGGGAAGGAAAGAAGGGAACGGAGAABACCG
 GAGCAAGAGGGAGAGGAGAGAGGGAGAAGACACAGCCAAGGG GAGAAGGCAGGAACCGGAAAAGGAAGGGGACGGCAGAGAAGG GAAAGACAGCCGGGGCAGGGGGGAGGGAAAAGAGGCCGAATC CA G GAAGAAAAAAAAAAGGAAGGAATTAAAAGGGGAGAAAAC C T T C C G G G G G G A G G A G G G G G G A A A A A C G A G A G A C A G G A G A A G A GAAACAAAGGCCGGAGGACAAGAAAGGGGGACGAGGAGGGA G G G A A A A G G G G A A C A G G A G A A G G GAAGAGAGGAGGGAACACA $A A C C C A G A A G G G G G G A A A A A A C C A A A A G A A G A A A A A A G G G G A$ G G A A A A A A A G G G G G G G A G G G G G G A A G G C C A G G A G G G G G A G G A ACAGGAACCCAAGCAAGAAAGAGAGCAACGAAGGGCCAACAG $G C C A A A A G G A A G G A A C A G A G G A G G G A A A A A A G G A A A G G G C C G$

GACGGGGGGATAAAAGGGAGGGGACCCGGAAGGAAAGAAGGA G GAA A G G G A G G G G G G G A A A A A G G A A G G G G G G G A C C A A A G G G A GAAAAGGCCAAAGGGGAGAAAAAAGGGAGCCGGGAGGAACAG $G C C A A A A A G G A A C C C A G A A A A C C A A T A A G G A C A G A A C A G A A G$ G G GAGGGGAGGAGGGAGCAGGAAAAGGCCAACCCCAAGGGGG G G G G G A A A A A A A A G G G C A A A A A G A A A GAA A A GAAA $A$ A G G G G G G G G GAGGCCGACCAAGGAAGGGGAAGGAGGAAAAAGAAAAAA AAGAAGGGAGGGAAGGGGAGCAAAAGGGAAAGGAAGGAAGAAA ACCGAGGAACCGGAACCGGCCGGAAAAAACACGCGGGAAAAG G GAGAAAGAAGACAAAGGAGGAAGGAGCCGGGGAAGGGAAGA

 G GACCAAAAAAAAGGAAAGGAGAGGGGACGGAAGAAACBGGA A G G G A G G G A A G A CAAC CA C G A A A G G G G G G A A GA A A A G G A G G G GAACAGGCAAGGGGGAAGGGGGGAAGGAAAAGGCCGGGGGAG G G G A A G G G GAAAAGGGAAAGGGGGGGGAGGGGGTTAAAGCCC CAGCCGAGAAACCGAGAAGGAGGAAGAAGGACAAAGAAAGBA A G G A G A G C G A A A A A GAA A G G G C G A GAGAGGAGGGGACAGCC G G G G G GAGACGAGGACAGAACCGGAAAGAAAAAAGGGGGAAAA GAGAAGGGGCCAAGAAGAGAGCAGGAGAAAGCCGGACCCGBA GAGGGGGGGAAGGAAAAAGGGAAGGAAGGAGCGGAAGAGACA A G GAACCAGAAAAGGAAAGGATTAAAAAAGGGGGGAGGGGGG G GAGGGAGGAACCGAGGGGAAAAGGAAGGAAAAAATTCAAAG GAGAACCAAAAAAGGGAAAAGGGCCGAAACCGGGGCAACGBA GCAAGAAGGGGGAGGAAACAGGGAGAGAAGAGAAACCABACA A GAAGGGGGGAAGGGAGAGAGAAAAAAAAAGCCAAGAAAAAG G G GAA A G A A G G G G G G TACCCCAAAGGGAGGGAGACCCCAAC G A G G G GCCGAAAGGCCAAAAAAGGGGATAGGGAAGGAGGACAA CAGCCGGAACCGGAAGGGGAAGGAGGGGAAGAAAAAAGGGGG GAGCCACGGGAAAGGGGGGGGAACCAAAGGGGAAAAGCAGAA A A G A GCCGGAAGAGAACGACCAACCAGGGGAGCGGGGCCGGA GAGGGAGCGAGGAGGAGGAAAGGGGCCAGGGAAACAAGACAA G G GAGAGAAAACAAGAAGGGGAAAAGGTTACAGABCCCCGGG
 A A A $\mathcal{A} G G G G G G G G G G G A A A A A A G A A A C A A G G G A A A G A A A A A A C$
 GAAGGGGGGAAAAGGAAAAGGCCACAAGGGGCCCAAAAAAAA CAGGGGGGAAAAAGGGGGGAAAAAGAAGAGAAGAAGGGGGGA
 GAACCAGAAAGGGAGAGGGGAAAGGGAAACGCCGAAGGAAGA AAAAGGGAAAAGGGGGGGGAGAACCGGAACCGAGAGGATAAG A G A A G G G G GACACGGAAAAAAGGAAAAGAAGGAAGAAAAAAA A G GAAAAAAAAAAAAAAAAAAGACCGAAAGGCCGGAAGAAAG GCCAACCGGAGGGGGCCGGAAAAAAAGGGAGAACCAAAACAA A A GAAAAAGGAGGAACCGGGAGGAAGAGGAGGAGGGGAAAAG
 C GAAA $A \operatorname{GAAAAAGGAAAGAACCGGAAGGAAAGAAGGAAAAGGC}$ CACAGAAAAGGGAGGGGAACACAGGCCGGGGCCGGAAGGGGA A G G GAA A G GAAGGGGGGAACCGAGGGGAAGAGAAAAAAAGAA CAAAGAAAACCAAGGCCAAGGCCGGCCAAGGGGGGGGGAAAA A G G G G A A A A A A G G G GCCGGCCCCGGGGAAGGAAAA GGGGGGG G G G G G A A C C G G G G G G G G A A G G G G G G G GAAAAAGGGGAAGAAA G

 A G G G G A A G G G G A A G G G G G G C C G G G G G G A A C C G G G G G G A A G G C CAAAAGGAAGGAAGGAAGGGGAAGGAACAAAGAAAAGGGGGG G G G A A G G A A C C G G G G A A A A G G A A T T G GAAA A A A A G G A G G G G G GACAAAAAGAGGGCCGAGACCAGAAGGCAAGAAAAGGGGCCG A GAAGAGGAGAGGAGCAACAGGAAGGAAAAAGGGGAGCAGAG

GCCGAGGAGAGGGCAAAGAGGGACAGGGGGGGAAAAAAGGGC C G GCCAAAGAGGAAGAAGGGAAACCGAGGAAGGAGGCAAAAG G G A G G A G G G T T A GAGC C G A CAACGGGGCACAAGGGGGGAAGA GAGGAGACCGGGGGAAAGGAAACGAGGGGGGCAAAAGAGAAA GA GAAA A A GAGAGGAGAATAGAAGAAAGAGAAAA GAGGGGGG A A G G A G G C C A G G G A G A G A G G G G A G G G G A A C C G G G G G G C A G G T TACAAAGGGACGAGGCCAAGGAAGGGGGGGGGGAAAAAAAAA AAAGGAAAAGGAAGGGCAAAGGACAGGAGGGATAAAACAAAA GAA A G G G G G G G G G G A A G A G G G G A G A G A G A C C G G G G A C G G G G A AAACCAGAGGAAAAAGGAGAAGGGAACGGACGGAACAGAAGG GAAAAAAGAAAGGGGGAAGAGAGAAAAGAGGGGAAGGGGGGG GAAGGGGAAGGCAAAATCCAGGGGGGGCCGGAAAAAAAAAAA A G G G G G G G G G G G G G A A C G A G G G A G C C A A G A A A A G GA G A A A G A CAAAGGAACGGCCAGGGAGGGAAGGAAAACAAAAGAGAGAGAA A A G G A A GAA A ACCCCGGGAGAGGGAGGAAAAGGAACAAAAAA A G GAA A GCCGGAAGGCCGGGGAAGGGGGGGAAGAGCAAAAAG
 A A A G G G G A G G A G G G A A A GAGGGGAGAAGGGGCCCCCCAAGAA GAGGACAGGGGGGGAAAGGAGAGAAAGCAAGACGGGAGAAGA A G G G G G G A G G G G G A A A $\mathcal{A} G G A G A G G G A T G G A C G A A A G G G G G G C$ C GAGGGGAAAAAAAAAAAACCGAAAGGAAAAGGGGGGAAGGA
 A G G G G G A A A A G A A G A A C G G G G A A G GAGGGAAGAAAA G G G G G A G G G G A G A C G A G A GA G A GAAGCCAAGAAAGGGGAACAAAGACCA A G G G A G C A C G A A G C C G G A G G G G C A A G G G A A G A C A G G G
CAACAAAGGAAAGGGGGGAGACAGAGAAGGACGAAAGGGGA CAGAGAGACGGAAAGGAGGAGGAAGGAAGGGAGGGGGCABAAA G A A A A G A A G A A A A A GAGGGGGGGGGGGAGAAAGAAGAAAGAA A GAAAACGAAAAAAGAGAGGGAAGGAAGGAAAGCCAAGAAAA GGGAAAGACGAAGGAGAAACACAAAAGAGGAGGAACAAAAGAG G A A G G A A A A A A G G A A A A G G A A A A G G G G G G A A C C G G A A A A G G G GAAAAAAGGCCAAGGAAGGGGAAAAAACCGGGGGGAAAAGGG

 A GACCGACCGAGGAAGGCCGAAGGGGGAGGGGGGGCA$G G A A G B$
 G G G A G A A A G G G G G G G G G A A G G G G A C A A A A CAAA A G A G GAA A A GACAGAGAGCGGGAAGGCAGAGGGGAAAAGAAAAAAAAAAAA

 $C G G G A G G G A G G A G A G C C C C G G A A G A G G A G C A A A A A A C C A A A G$ G G G A A A C A G A A A A G G G G A G G A C A A A A A A G G GAA $A$ G A G G G A A A $G C A C C G G C A G G G A A C G G G G G G G G A G A G G G G G A A G G G A A A A A G$
 GAAGGGGAAGGGGAGGGAAAAGAAGAGAAGGGAGAAGGAA GA ACAAAGGGGGAGAAAACAGAAGGAACCAACCGGGGGGAAAAG GAA $A \operatorname{GA} A A A A A \operatorname{A} A G G A A A A G G A A G G G G T T T T A G C G G G G G C C G$ A G GAAAGCCAAGAAAACGGCCGGAAAGAACCAAGBAAGGGGC A GAAAAACAAGAAACGGGAAAAGAACCGGCCAAAAGGGAGAA GACGGAAGGAAAGGAACGGCCAAAGAAAAAGAGGGAAAAGGT T G GAACCAAGGGAGAGAGGCAACGAGGAAAGGAAACCAAGAA AA $A G A G G G G A G G A G G A A C C G G C C A A A A A A A A G G G G G G G G G G A$ A A A A A A A A A G A CAAAGGCCTAAAAGGAGAAAACGGAAGAAGG GCCGGGGAGAAAAATGGAGACAAGGGGAAAACACCGGAAAGAA AAGCAAAAAAAAAGGAAAACAAAAAGGGGGGAGACAGGAATT A GAGAAGAGCCGGCAAGAGGGCATTAACCGGAAGGGGGAACC A GAGAGGTAGGAACCGAAGACGAGGACGAAGAAAAGGGCGAA G G G G A G G A A A A G G G G G G A A G G A A GAGGAAA A A GAA A G A A G G G GAAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGGA

AAGAGCCACGGAAGGGAAGAACCGGAAGAAAACGCBAGAAAG GAAAAAAAAAAAAAAAAAAAAGAAAGAGGGGGGGGAAAAGAG GTACCGGAAGGAATAAACGGAGACCAAGGGGAAAGGAAGAAA AAAGGAAGGGAAGAGAAGGAACCGGAAAACCGAGGGGGAAAA A G G G GAAAAGGCAAGAGGAAGAAGGGGGAAGGGGCAAGAAAA A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G G A G G A A A A G G $G$ A A G G G A A G GAGGAAAGGGGAAAAGGGGGGAACCAACCAGAAA CGGCAGCGACCGGAGAAGAGGCCGGCCAAAGGGAAAAAGGGA $G C C C C A A C A A G A A A A C C G G A A A A G A A G G G G G G G C C A A G A G A A$ G GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACAAAC A GAAA AA GAAA $A \operatorname{A} G \mathrm{G} A A A A A G A G A A G C C A G A G G G A G A A G G G A C$ A A A G A A GAGGGGACCAGACGAGGGAGGGGGGAGGAGCACGCA G GAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAGAAAAGA GGAAGGGAAGGAAAAGGCATACACCAAAACCTAGGAGAAAAA ACAGGAAAAGGGGGGAAAGAAACCAGGGGGGCCAAAACAAAG GCCGGGGGGAAAAGGAACCAAGGACGAGGAAGGGGAGGACAA GAAGGGAAGGAGGGGAGAGAGCCGGAGGGACGAGAAGAGGGG GAAAAAAAGAAAATTAAGGGGGAAGCAGATTAAAAAAGACCC AAAGAAAGAAACCAACCAAAAGGGGGGAAGGAAAAAGGAACG G G G G GCATTGGAAGAGGACGCACAAAGAAAGTAAAAAGAGAT TAAACAACCAAAAAAGAGGGGAAGGGGGACAAAAGAGCAAGA GCAGAAGGGAGGAAGGGACAGGAAGGGAGGAAAAAGGCAAGC AAAAGAGAAGGGGAGCCAAGAACAGGAGAGAGCAAAGAGAAA AGGTAAAGAGACACCAAAAAAAAAGGAGGAACACCCAGGGGA A G G A A A A A A G GCAAACAACAAAGCCGGGGAAGGATAAAAA GA A A A A A G GAGAAGGGGGAGAGGCCCCGGCGAAGGGGACAACAG G G G G GCCAAAAGGAAAAAAGCGGGGAGAAAAAAGGGGCAGGG
 GAAGACAAACCGAACAGGGCAGAGGGAATGAGACAGAGAAGC C G G G G G GACCCAGAGAAGGAAAAAAGGAACAAGGAGAAAGGA AAGGAGAAGACGGAAAAGGAAAGGGAAGGGGGAGGGGAAAGG $G C C G G G G G G A A G A A G A G G A A G A A G A G G C C C A G G A A G G A A G G G$ G GAAAAAGGGGAAGGAACCGAGGAGGAGGGAGGAAAGEGGAA AAAGAGAGGGGAACCCCGGAGGGACAGAAGGAGAAGGAAA GA GAAGGCGAAGGACGGGGCCCCCAACGGGGGAAGGAAAGAAAC C GAGGCAAGAAACGAGGAAAAGGGGAAGAAAAAGGCCGGGGG GAAGAGAGACGCACCGGAGCCGGGGAGGAGGGAGAGGGACCG G G GAACAAAAAAAAAGAAACCGGAAGGAGGGCACCGAAAAAA C G G TAACAGGGAAAAGGACGAAAGGGGACAAGGCCGGAAGAG A A C A A G GAACCAGAAAGGGGGGGAAGAATCCAAGGGAGAAAA A G G G GAA $A \operatorname{A} A G A A A A G A C C A A G G G G A A C A A A C C G G G G G G G A G$
 GGAAGAAGGAGAGAGAAGGCAGGAAAGGGGCAAGGGAGGAGA G G GCCAAGGGGAAAGCCAAAAGGAAAACCAAAACCGGAGGAA AAACCAAGAGAACCCGGAACCAAGGGAAAGGGGGAGAAAAGB A GAA A A GAGCCGGAAAAGGAAGAAGACAGCCAGGAGGGGGGA A A GAA A A G A G G A A G G GAGGGGAAAAGGCAAAAGGGCAAAGEC A G G G G G GAGGAAAAAAAGAGAGAGAAAAAGGGGGGAAAAGGG GAAGGAGCAAAAGAACGCAGGCCAGCAGGGGGGGGGGCCCCG G GAAAGGGGAACCGGAAGGCCAAGGAACCAGAAGAAGGAAAG A A GAGAGGGCAGGAAGAGACCAAGGAAACAGAAAGCCACGGG $A C C G G G G A A A A G G C C G G C C A A G G G A A G G G C C G G G G A A G G G G A$ $G C C A A G G A G A G A A A A A A A G A G G G G G A A G G C C G G C A A A A A G G A$ AAAGGAAGGAAAAAGAAAGAGACAAGGGGACGAGGCACAGGA AAACCACATACCCCCAAAAAAAAGGAAGGGGAAGGGGAAAAG
 AAAGGCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAGGA G G GAA A G GAGGAGAAAGGAAAAGAAAAAAGGAGACAAAAGGC $A C C G G G G A A A A G G A A A A A G G G A G A A G A G A A A A A A A A A A A G G A$

G G GCCGGGGGGAAGGGGACAGAGAAAGACAGAACCAACAAAA A A G A G A A A G G G G G A A A A A A A G G A G G C C G G G G G G A C C A G G G A G $G G A G G G G A A G G G C G G G A A G G G G G G G A A A A A G G G A A A A G A A C G$ A GAGGCCGGAGGGAGGGGGAAGGAGCAAGTTAGAAAAAGAAA A A G GAGAAGAGAACCAGAGGGGGAAGAGGAAAACCAGAGAAA G G GACAAGGAAAAGACACAGGGGAGGAAGTAAAGAAGAAAAA A A A A ACCAAAGGAGAGAAGGAAAAGGAAGGGGAAGAAAAA GA $A C C A A G G A G A G C A G G A A C A G G A A G G A A A A C G A A G G G G A G G G A$
 AGGGGGGCCAGGGGGGGGGGGGGGGAAGACAAAGGAACAAAG
 GATAAAACCCCGGGGGGGGAAGGACACAAAAAACCAAGGTTA
 $G G A G G T T A A C C G G G G G G A A C A G G G G C C G G G G A A A A G G G G A A A$
 $G C C G G A G G G G G A A A A A G C G A A G G A A G G G G A A A C A A G A A A G G A$ A G G G A G A G G A A G G G G G G G G G G G A A C G G C A C C G G A A A A A A G G G AAAAGAAGGACCAGAGGGAACCCGACATTACGGCCGGGAGAA AAACCGGGGGGAAGGGGGGAAAAAGGGGGGGACAAAAAAGGG A A A A C G A A A A G G G C A A A C A A A A A G G A A G A A A A A G G G G G G G G A A G GAAAAGGCCAATTAAAAAAAACCGAGAAGGGAGGAGGAAA A A A A A ACAAAC GAAGCCGGAAGACCAGGAAAACAAAAAAAGA A G A A A C A A A A A A A C A A A A A A GAG GA GAAA G GAA G GAAAA G G C CAAGGGGCCAAGGGAAAGGGGGCAAGGGGAAAGGGGAAAGGG G G GCC $C$ G $\operatorname{CA} A A A A A A G G G G G G G G A A G G G G G G G G C C A A G G$
G G G G A A A A A A G G G G A A G G G G C C G G G G A A G G G G T T A A G G G G G GAAAAAAAAAAAAGGAAAAAAAAAAAAGGAAAAGGCCABAAG G A A A A A A A A G G G G G G A A T T C C G G A A G G A A A A T T A A A A G GAA C CAAAAAAAAGGGGAAGGGGGGCCGGGGAAGGAAAAAAAAGGG $G C C A A G G G G C C G G G G A A A A A A G G G G A A G G C C G G A A A A C C G G G$ G G G G G A A G GAAAAAACAAAAAAAAAAAGGGGAACCBGCCGGC $C \subset C C C C C C C G G A A G G C \subset A A G G G G G G G G A A A A C C C C A A A A G G G$ G G GCCAAAAAAGGGGAAGGAACCAAGGGGTTGGGGGAAAAAA A G G G G G G A A G G C C G G A A A A G G G G A A G G A A G G G G G G G G C C G G C C G G A A G G A A G G G G G G G G G G A A T T G G A A A A G GAA $\mathcal{A} G G G G G C C A$ A G G G G G G C C A A A A A A G G A A G G G GCCCCAAGGAA G GAAG GCC G $G C \subset G G G G A A G G A A C C G G A A A A A A G G G G G G A A G G A A A A A A G G G$ $G C C A A A A G G G G G G G G G G G G G A G G G A G G G A G C G G G G A A A A G G G$ $G C C G G A A A A G G A A A A G G A A A A A A G G C C G G A A G G A A G A G G G G A$ A G GAA A GAGGGCCAGGAGGACACGGCCCCGGAGAGACBGAGC A G GAAAACCGAGGGAGGGGCAGGACAGAAGGGAGGGGAAAAA GAGAAACGGAGACAGAAGGGGAAGGACGGGGAAAACCAAGAC C C C A A A A A A G G A A A A A GCCAGGGAGAAAACCGGAAAAGGGGG G G GCCGGAAAAAAGGAAGGGGCCGGAAGGGGAACAGAAAAAG G GAA A A G C C G A A A A G G A A A A A G GAGGGGAGGAACC GGGAGAA

 GAGAGAAAAGGGGGAAGGAAAAAAGAGGGCACCAAAAGGCGG G G GAACCAAAAGGGGCCGGGGAAGGAAGGGGAAAAGGGGGGA
 GAAGGGGAAGGGGGGAAGGAACCGGCCAAAACCAAGGAAGAA AAAGGAAAAAAAAAAAAAAAAGGTTAAGGAAGGAAAAGAAAA $A C C G G G G G G A A A A G G G G G G A A G G A A G G G G A A G G A A G G G G G G A$ AAAGGCCAAGGGGAAGGAAAAAAGGCCAAAAAAAAGGAAGGC CAAAAGGGGCCAAAAAAGGAAAAGGAAAAAAAAAAAAGGGGT T G G G G G G A A G G A A T T A A C C G G G G A A A A A A A A G G G G A A A A G G A ACCGGGGGGAAGGGGGGGGCCCCGGAACCGGAACCGAAAAAG GAAGGCCAACCAACCGGAAAAGGAATTAAAGCCAAAGACA GA GAGAAAAGGAAGGGGAAGGGGCCGGAAGGGGAAAAGGGAAAG
$G C C C C A A A A C C G G A A G G A A A A A A G G G G A A A A C C A A G G G G G G G$
 A GAGGAAGAGAGGAAGGAGAAAAAGAGGGGGAAAAAAGAGGG GAGTTGAGGAGAGGGGAGGAAGGAAAGAGGGAGAAGAGAAGA AAAAGAAAACGACGGGGCAAAAAAGACACGGGAAAAACAAAA
 GAGGACAAAAGGGAGGGAAGGGGAAGAGGGAAAGBCAGGGGC C T T T T G G G GCCCCAAGGAGACAGGGCAAGCCGGGGGACACAA A G G A G G G G GAA A G G A GCGACCAGAAAGGAGAAAAAAACACAA AGGCAACGAACGGGGGAAAAAAAAAAAGGGGGGGGAAAAAAG GCCAAGGGGGGAAGGGGAAAACCGGGGACAGGGAAAAAAGBA GAAG $A \operatorname{A} A \mathrm{G} A \mathrm{G} C A A A A A A A G A G G G G G G G A A A G A G A G G A A A C C C C A$
 G G G A A G GAAA G G GAAAAACACAAGGGGAAGGGAAGAGA G GA G
 AGGGAAGAACCCAAAAACAGGCAGAAAGAAACAATGGGGAAA A G G G G A A G GACAA $A$ A A GACAGGCCGGACGGGGAAAAAAAACAA A A A G A G G A A A G G G A A A GAGGGGGGGAGAAATGGAACCAAAAA GACGGAAAAAGGGATGGCCAGGAAAAAAAAAGGAATTCAGAG GAAA $A \operatorname{A} A A G G A G G A A G C G A G G G C C C A A C C G G G G G G A A G A G G G$ ACAAAAGAAGGGGGAAAAACCGGACAGAAAAGAAAG GAAAAA A A TAAA A A GAAAACCAACAGAGGCCGAAGGAGGGGGAGCACA GATGAAAAAGAGGCCGGGGGGCGAGGAGGGGCCGACAGAGGA A A A G A G G G G G A G A A A G A A A A A GAGAAAGAAGGGAC G G GA A G G A A GACCAGAAAGAGAGGGGGGGCCAAAGTAAAGGACAAGAAAB G GAAAAAACGGAAAAAACAGGGGGGGGAGGGCGAGGGCCCCA A G G G G G GCCCCAAAGAGAAAAAAAAGAAGAAGGAAGGGGGAA
 A A A A G A A G GAGACAGCCGGGGAAGGAAGGGAGAGAAAAGGAA AGGGAAAACGGCCAAAACCCCCCGGCCACGGCCGAGAAAGGG A G A C C G G A A A G A A A A G G A G G G G A G G G G G G A A G G A G G A C C G G G AGGGGGAAAAGCCAAAAAAGGAAAAAGCCAGAGGGGGGGGAA
 GAAGGGAAAGGGGGGGGAGAGAAGGGGAAAGAAAAAAAAGAG GA $A \operatorname{GA} A G A C C G G G A G A G A G G G C C A G G G G G A A G A A A C C A T G G G$ GAAGACCGGGGGGGGAAGGGGTAGGAAGAAGAAAGGGGACAA
 GAAAGGAAAGGAAGGAAAGGGAAGGGGAGGACCGGAGAAAAG A G G A A G G A A A A A A G G A A G G G G A G G G A G G G A A A G G A A A G G C C G
 A GAGGAAGGCCAAGAAGGGAAAAAAGGGGAATTCCAAGAA G G
 A G GCCGAGGAAGAAAGAGAGAGGCCGGAAGAGGAAAAGAAAA C G G G G G G A A A GAGAAAAGAAAGGGGAAAAAAAAAACAAAAA G G G G G A G G G G A G A G G G G G A A A G G G G A G A G G A A A A G G G G C C G G A
 A A A A A A A G G G G A A A G G A A G GACCGGAACCAGAAGGAA GAAA G A G G G A A A G A A GCC G A GAGGAAGGGAAAGGGAAAAACCTXGAG GAAAAGAACAGAGAGGAAAGGACCCAGAAAGAAGGAAGCGGC
 A A A A A G G G GCA A G A A G G G G G G G G G G G G A A C C C C C C A C C C A A G AACGAAACGGAGAAGAGACGGGGCCAAGGAAGGGGGGGGGAA A T T G G G G G A A G G A A G G G G G G G A G A C C C G G A A A G G A C C G G G G A $A C C A G A G A A A G C C G A G G G A A C A G A A G A A G A A A C G A G A A A C C G$ G G G A T A A C C A A GAG GAAGGGGAGAGGACCGGAAGGAAGGGGA C G G A A A A T TCCGGGGGGAAAAGGAAAAGGAAGGAACCAAAAA A A A A A A A G G G G A A A A G GAACCAAGGCCAAGGCCAAGGGGGGAA A G G G G G G G G G G G GAAAAGGAAAAAAGGAAAACCAAGAAAAAA A A A A A A A A A A A G G G G G G G G G G A A G GAAAAGGGGGGAAAAAAC

CAACCGGGGCCGGGGAAAAAAGGAAGGGGGGGGAAGGCCGGA A G G G G A A A A A A A A G GAAAA A C A A A A A G G G G G GA G G GAC G G C C A GAGAGAGAAAAGAGGGAGGGGGAACAGAAGGAAGAAGAAAAA GAACCAGAGAAGAAAAACAGGAAAAGAGAAAGGAGCAAAAAG A G GAAAACCGAAGAACCGGGGACGGGGAAGGGAGGGGACAAG GAGAAGGAGGGAAGAGGGGAAGAAAACACGGCAAAAAGAGAG GAGAGAAGAGGGGAAGGGGGAGAGGCCGGAAAAAGGGAGAAG GAAAGAGGGGGGGAAAAAAAAGGAAAAAGCCGGGGAACAAAG G G G G G A A A GCAGGAAAGCCAGACAAAGAAAGCCAAAAAAGAG AGGAAGGCCCCGGAAAAAGAAGGCAAAGAAGAAAAGGGACAA A G GAAACACGGAGGAAAAAAGAAGGGGAAAAAGACAAGGGAA A A A A A G G G GAACAAAGGGGAAAAAAGGGGTTAGAAAGAAAAG
 A G G G G G G G A G G A A A A A CAACC G GAA AGACAAAA AAACCCC CA GCCGAAAAGAGAAAAAAAGGGAAAAGGCCAAAGGACACCAGA G G G G G A A G G G G GCGGGGCCGGCCGGAGAGGGGGGGGAAAAGA GAAAAAAAACCGGGGAAGAAAAGGACCGGAAAGAGAGGAGGG G G G A A A A A A A A G G G G G A A A A TAGGAGAAAAAGAAAAAAAA GA A A A A A GAAAAGAGAAAAAGAAGGAAAAGGAGAGAGAGAAGAA
 A GAACAACCGGAAAAGGGGGGGGGGAAGGCCAACCAACAAAC C G GAC C G G A G GAAACAGGAGGAAAGAAGGAACCGACCCAGAA GAAGAACGGGGGGAGAAAGGGGAAGAGAGAAAAGAGGAAGGC AAACCCCAATTGGAAGGGGCACCAAAAGGAGAAAAAGGACCG G G A A A A A C C A A A G A GAGAGGGGGGGCCCCCCAAAGGG
A $G A A G G G A A G A C A A G G G G A A G G A A A G A A G G A G G G C A G G G G G$ GAAGGGGAGGAACAAGGGGGAAGGGGGAGACAAAGCCAGGAA
 A A A A A G G G G A A G A G G G G A C G A G G G A GAGGGGGAGAAA G G G G G GAAAAAAGAAAAAGGAAGGACCCAGAGAGGGAAGACCGAAAG GAGAGAGAAAACCGAACAGGGTAAGAGAGACGAAAAACACAG
 G G G G G A A G GAAAAAACAAAAAAAGGAGGGGAGGAGAAAACAG G G GAACC $A \operatorname{CGG} \operatorname{CA} A A G A A G A G G A G G G G G G G A G C C A A G A A G C A C$ CAGGGGAAGGACCGAGAGGCCCAACAGAAGGGGAAGGCAAAG GAGAGGGGAGGAGGGGGAAGGAAGGAAAAAGGAAAGGCCGBA A G G G G G G G GAA A A A A A GAACC G GCCGGAAAAAAAAGGA GAAC CAGAAAGAGTTGGCCGGAAAAAGGAAAGGAACCAAAAAAGBA G G G G G GAAAGGGGAAGGCCGGCAACAGAAAAGAGGACAGCCG A GAGAAAGAGGAGGAGGAGAAAAAGAAAAAAAGACCAGAAAA AGGGGAAGGAAAAAAAAAACCAAGGCCGGAAAAGGAAGAAAA A G GCCAAAAGGAAAAAAAAGGAAAAAAAAAAAAGGGGGAAAG GGGCCGGGGAAAACCAAGGAAAAAAAAGGCCAAGGAAAAAAA AAAAAGGGGAAAAAAAAAAAAGGTTGGGGAACCGGGGGAAAG GAAAAAAGGGGAAAAAAGGAAAAGGAAAAAAAACCBGAAGGG GAAGGAAAAGGAAAAAAGGCCAAGGGGGGGGAAAAAAGACCA $A C C C C A A G G G G A A A A A A C C G G A A A A A A G G G G A A A A A A C C G B A$

 $A C C G A A A A A A G A C G A A G A A G G G G A G A A G G A G A G C C A G A C A A G$ GCCAGGGAGAGAAAAAAGAGAGAAGCAAACAAAAGAAAAAGG G G G G G GAGAAGAACCGGAAGGCCGGACAAAGAAGAAGGAAAA A A G A C A A A GAGAGAAAAAAAAGGCCAGAGGAAGAGGAACAGA $A C C G A A A A A A A A T A G C A G G G G G A C C C A G G G G C C C C A A C A A A G$ GAAGGGGGAAAGGAAGGGGAAGCAAGAAAGATTCCGGAAGAA
 ACCAAAAAACCGGAAAAAAGGAAAAAAGGAACCGGGGGAAAA A A A G G G G G G G G A A A A G G G G A A C A A A A A A A G GAGGGGGAAAAA AAAAAAAAAAAGGGGAAAAAAGAGGCAGAAACCAAGGGGCCG

GAAAAAAGGAAGGGGAAAAGGGGAAGGGGAGGGAGGAAAGAA A G G A A GAA $A$ A $A C A A A A G G G T T G G A C A A G G A A A A C C C A A A G B A$ A A GCCAGGACAAAGGCCCCGGAGAACCAACCCCGGGAAAGGG A A A G A G G G G G G G A G G G G G G G G G G T T G A G G G GAA $A$ G C A G G A A A A G GA $\operatorname{ACA} A \operatorname{A} A A A G G G G A A G G A A A A G G G G G G G A G G G A G G G A G G C$ C G G G G A A A A G G A A G G G G G G A A A A A A G G G G A A G G A A A A A A A A A $A C C G G C C G G A A A A A A C C C C G G G G G G T T G G G G G G G G A A A A G G G$ G G G G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A A A G G A A G G A A G G G G A A G A A A G G A$ A A A G GCCGGAAGGGGAAAAGGAAGGGGAAAAGGCCGAAAAAG G G G G GCCGGAAAAAAAAGGAAGGAAGGGGGGAAGAAAAAGGG G G G G GCC G G A A G G G GAA $A \operatorname{CGG} G A A G G G G A A A A G G A A A A A A G G G$ GAAAAGGGGAAAAGGAAGGGGAACCAAGGAAAAAAGAAACCG G G G A A A A A A G G A A G G A A G G A A A A A A G G G G A A G G G G C C G G G G A A A A G G A A G G G G A A A A C CAACCGGAAAAAAGGGGAAAAGAAA G GAA $A \operatorname{G} C C G G G G G G G G G G G G G G A A G G G G G G G G G G G G C C G G G G G$ G G G G G G GAAAACCGGGGAAGGGGAAAAGGAAGGGGCCGGGGG G G G G G A A G G C C G G G GCC G G A A C C A A A A A A C C G G G G G G G G G G G GAAGGAACCGGAACCGGGGAAAAAACCGGGGGGGGAAGGCCA AAAGGCCGGGGAACCCCGGAAAAGGAAAAGGAAAAGGAAGGG GAAAAAAGGAAGGGGGGAAAACCCCGGAAGGCCAAGGGAAAG GGGCCGGCCAAGGAACCGGAAAAAAAAAAAAAACCGGGGGGA AAAGGGGAAAAGGCCGGGGAAGGGGGGCCAAGGAACCABAAG GAATTGGCCGGGGGGAAAAAAGGAAGGGGAAGGCCAAAAAAA A G G G G G G A A A A G G A A A A C C G GAACCAAAAGGGGAAAATXAAC C G G G G G G G G G G A A G G A A G G G G A A G G C CAA A G G G A A G GAAAA A A A A A A A ACCAAAAAAAAAAAAAAGGGGGGGGAAAAAAAACAA A G G G G G GAA A G G GAAGGAAAAGGAAGGGGCCAAAACAAAAAG G G G A A A A A A G G G G G GAAAAAAAAACCCCAACCAAGGAACCGAA AAACCAACCGGAAGGAAAAGGAAGGAAGGCCTTCCGGAAAAA AAAGGGGGGAAAAAAAAAAAAAAAAAACCGGGGGGAAGGGGA A G G G G C C C C A A G G G G G G A A A A G G A A A A A A A A G G A A A A G G A A G G G GAAAAAAAGACCCAAGGGACCGAGAGAAGAGGGAAAAGAC
 A G G G G A C C C G G G G G GAAC CA A G G A A G G G G G A A GCC G A A A A A $G$ GAGACAGGGAAGAACAGAGAGACGAGGGGAAGGGGAAGACCA A A G G G A G A G A A G G G G A A A A A A C C A A G G G G A A G A G G A A G G G A A
 AAAGAAAGAAACCGACAAGGGGGGGGACCAGAGAGAGGAGGG GAACCGGAAGAAGAAAAGGAAGGGGAAAAGGAAAAGGGAAAA AAAGGCAAAGAGGAAAAGGAGGGCCGGAAGAAGGBAAAAAAG $G G G G G A G A A G G A G G A G A A A G G A A G G G A G G A G A A G A A G A A G G G$ G G A G A A G G A G G G G A G C C G A G G G A A A G A G G A GAA A A A A A G A A G AGGAGGAGAGAGGAAAACCAAAAAGCCAAGGGGAAAAGAAAA A GACAGGGGAAGGCCGGCAAACAGAGGGAGAAGAGGAAAAAG GAACCGGAGAAGAAGAGAGGGAAGGGAAAAGGGGAGGAAGAA $G C A A A A A A A A A G A G A A G A A C A A G G G C C G G A A A G A A G A A A A A A$
 GAACAGGGAGGAGAAGGAAAAGGCCGGAAGGAAAAAAGAACA AAAAGAGCCAAGGGGAAAAGGCCAGAAAGCAAGAGAGAACAC CAAGGAAAAGGAAGGAAAGAAGGAAAGAAGAAAGGAAAAGGG G G G G G GAAAGGAGAAGGAACCGGCCAAAAAAGAGGAAAACAG GAAAGAGCAACCAAAAAAGGGGGAGCCAAAGGAGAGAGGGGC C G G G G A A A G A C G G A A C C A G G G C C A A C C G A G G G G G G A A G G G G G GAAAAAAGAAGAAGGCAAAGAAGAAGGCGGGGGAAAGGGGAG A G GAA A A GAAAAAAAGGAAGGAAGAAGGGAAGAGAGGAAGAA GACAAGGGAGGAAACGGGGCCGAAAGGGGAAAGGGAGGAAAA A G G G G GAA A ACGGACGGAGCCGGCCGGGGCCGGAAAAABAAG
 CAGAGGAGAGGAAGGGGAAAAAAGGAAGAAGCAAGAGCCAGA

AGGGGGACCGAAGAGGAGGAACCAAAAAACCAAGGGGAAAAG A A G A A GA G GACGGAAAGAAAAGGAGAAGGAGGGAA GAAA G GAA
 AAA A A A G GAGAGGAAGGAGGAAAAGGAAAAGGGGGGGAGGGG
 C GAGGCCGGAGGAGGACGAGGCCACGGGGAAGGGGAAAAGGG G G GAACCAGAAGGGAAGAGGAAGAAGGGAGAAAACACCAGAA
 $A C C G G G A A G A A G G G G A C G A G G C A G A G G A A A A A A G A A G A G A G A$ CAAAAAACCGGGAGGAGGAGGAAGAAAAGGGGGAGGAGAGAG A GAGAGGAGCAAAAGAAGGGGAGGAACGGAACAGGCCAAGGG GAAAAAAAAACAAAGAACCGGGAAGAACCGGAAAGGBAGABA
 A A A A G A G G G A G A G G A G G G G G G G G A A G G G G A G G G G G C C A A G G G GAA A G T T G G G G T T A A G G A A G G A A A A A A G G G G G G G G G G G G A A $G$ GAAGGAAGGGGAAGGGGGGAAGGGGAAAAGGAAAAAACAAAC C C C A A A A G GAACC G GAAAAGGCCGGGGAAAAGGAAGAAACAA A A A G A A A A A A A G GCCGAGAAAGGGAAAGAGGGACCAAGCGAC CAAAGAAGAGGGGAAAAGAAAAGAAGGAAGGGGGGCAAAAAA C G A A A A A A A G A G G A G G G A A GAGGAACCGGGGAGAGAAAAGGG A GAGGAAGGAAAAAAGAGGGAGAGAAAGGAGGCGGGGCCGGA AAAGGGGGGAAAACCGGAGAGAGGGAAAAAAAAGAGGCAAAA A G G G G A A A A CAAAA A GAACAAGAGAGAAGGACAAGAAAGGAG A A A A A G G CAG G A A A A A A A A G G A A GAAAAAAA A G GCCGGGGGGT TGGAAAAGGGGAAAAAAAAGGAGGGCGAGGGGAAAAG
$C \subset G G G G A A G G A A C A C A A G G G A G G G A A A A A A G G G A A A C C A G G$ GAACCCCAAAGCACCAGGGCAAGGGGAAGAAAGGGAGGGGGG G G G A A G G G G G G G G A A G G A A A A $\mathcal{A} G G G A G A G G G A G A A G G G A A A T$ TCAAGAAGAGAAAGACCAAAGGACAAAGGAAACAAAAAAGAG $G G A A A A A G G G G A G G A A A G A A A G A A A G G C C A A A A A C G A A G A C C$ A A A A A G G G A G G A G G G A A A A A A A A G G G G G G A A C C A A A A G G C C A AAAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGAAAAAG A A TAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC C G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G G G G G G G G G G G G C C G G G G G G G G A A A A G G A GCCGGGGAAAAAA A A A A G G G G G G A A A A A A G G C C G G A A G A A A G G C C G G G G A G A G G A G A A A G G A G G G G G G G G G G G A A A A A A C C G G GAAAA A A C G GA G C A T
 CAAGGGAGGGAGAAGAAGAAGAAAAAAGGGAGAACCGAAAAA A A A G GACCCGGGGAAAGGGACAGGAAGGGAAGGGGGAAAAAA GACGGAACCGGGGGGAAAAAAAGGGAGAGGGACGGGAAGAGC C C C G G G G G G A A A A A A C C G GCCAAAAAAAAGGGGGAAAAACC G $A C C G G A A G G G G G A A A G G A G G G G G A C A G A C G G G G G G A G G A A A A$ G G G G G A A G G G A G G G G A A G G A C G G C C A A A A G G C A GA G G A A C C C
 C CAAAACAGCAACCAAGAAGGAACAGGGGGGAAAAGGGAACA G G A C A G G A C G G C C C C C C G G CA $\mathcal{C} G G G G G A A A A G A A A A A A A A A G$ A GAGAAAAGAGACCAAGCCAAGGAAGGGAAGGGGGAAGAGGG AAAAA AA GAGAAGAAAAGGAAGGAAGGGGAGAAGGGAGAGAA
 GCAATAGGGAAAGCGGAGGAGGGCCTAAAGGGGACCCAAGAA AAAAAGGAACCCCGGGGAAAAAAGAGGGGAAGGAAAAAAAAG G G G A A C C A A G A GA G G A G C A G A A A C C G G G A A C A A A G A A G G A G G AAGGAAGAGAGAGGAGGAGGAAAGGAAGGAGCACACAAAGAA $A C C A A G G A A C C A G A G A G A A G G G G A G A C G G G G A G A G A G G A A C A$ A G G A A G A A A A A G G G G G GAGAGGACCGGAACCAAGGAAGAAAG GA $A \operatorname{GG} A A A A G A G A T G A A G A G G G G G A A G G C C G G A A G G A G G G G G A$ $G G A G G G G A G A C G G A G C \subset A A G G T T A G G G G G A A G A A A C A G A G G A$ G GAAACAAGGGCCAAAACAGGAGCCGGAAACCAGGGAAGGGA

A GAGGAAAAAAGGGGGAAAAAAAGGGGGGGGGGGGAAGGGGA A A A A A G G A A G G GCGGGGGGAGAAGAGGAAGAGGGGAAAAGAA $G G A A G C C A G A G C C G G A G A A A A A A A A G G G A G G G G G G A G G A A A A$ A G G GAAAGGGGGAGAGGGGGACCGGAAGAAAGAAGGGAGAGA GAAGGGGGAAGACCAGAGGAAAAGGGAAGGGAAAGGGGGGGA A A A A A A A A A G G A A A A A ACC G GTTAAAACAAGGGAAGGGAAAA $A C C G A A A A A G G A A G A A G C C A A A A A G A A G G G G G G A A G A C A A G A$ $G G G A A G A A A A G A G G G G G A A G G A A A A A A A A G G A A G G G A G G C C G$ GAAAACCGGGGAAAAGGGGCCGAAGAAAAGGAACCAACAACC C G G G G G GAA A GAAAACCAAGGGAAAGGGAAAGGTTAAAACCT TAAGGAAGGAAGAACACGGGGAAGGAAGGTTAAAAAACCGGA A G G GAAAGGCCGGAAAAACCAACAACCGGGGAAAAAAGGGGA $A G A A A G G G G A G G A A A G A A G A A G G A G A A G G G A C A A A G G A G A A G$ $G C \subset G G A A G G A A G G A A A A G G A G C A A A G G A A A G G A C C A C A A A A A$ AACGGAAACAAGACCGACCAGGGAAGGGGAAACAAGGGGGGC $C G G G G C A G G G G G G A A G G G G G G G A G A G G G A A A A A G A A G A A G A A$ GACGACCGGGGGGACATGGAGAACACGCXAACAGGAAGAAAA GAAGGAGAAGAAAGGGAGGCAACAGGAGGGGATGGGAAAAAA G G G A A A A G GAAAA $A \operatorname{A} A \operatorname{A} G G G A C C C A A G G C A G A A G A G C C A A G G A$ GAGGAAACAAAGGCAAGGGAGTAAAGAGGGAGCGCGGCAGAA A A A ACAAAGGAGGAACCAAAGGGAAGGCCGGACCAGGAAAAC C GACACCAAAGGCAAGGAAGGAAAAAAGAGGAA GAA GAGAGC GAACAGGGGAACAAAAAAAGGAACCGGAAGGGAGAGACAAGC CCCCCGGAAAAAACCCGCGAAGGCAGGCCAAAGGGAAAAAAA
 CAAGGAAAAGGACGGAGAAGGGGAGGGAGGAAGCAAAAAGGG G G GA $\operatorname{l}$ A $\operatorname{A} A A A A A A A G G A G G G A A A G G A A G A G G G G G G G A A A A G A$ $A C C G A C A A A C A G G A A G A G A G A G G G G G G A A G G C C G G A A G A A A A$ A G G G A C A A G A A A G G G A G A G G G A A G G C C G G T T G G G G C C G G G G A AAAGGGGGGAAGGATAAGGAAGGGAAGGGGGACAAAGGAGAA A A A G G A A A A A A A A A A A A A A G G A A A A G GAAAAA GAAAAAA G GA A G GAA A G G GCCAAGGACAGAAGGGGGGAAAGGGACGGAGGGC CAAGGAAGGCAAGAAAACCAAAAAAAAGAAACCGAGGAGGGG GAAAAAGAGGGGGAAGGCCGACCAGGGAAGGAGGAAAAAAGA GAACGGGAAAAAAGAAAGACCAGGGAAGGGGCAGGAAAAGBA A A ACCGGAAACAAGGAAAACCAAGCAGAAAAAGAAGAGAACA C GAA A A A A A A A A A G G G GAGGAGGGAACGAGAGGCCAGAAAA G GAAGGACAAGGAAGGGGGGGAGGGGGGGGAAGGGAAGAAAAA
 GAACCAGGGGAGAAAACAAGGAAGGAAGGGGGGAGACAAAAG GAAAGGGGAAACCGAACGGAAAAGGAGAAGGGGAAAGAAACB G G G G G G G G A A G G G A A A GAAGGCAGAGGGAAGGAAAGAAACAA CAGGGGAGGAGGGCAAGAAGGGAGGAAAACCCCGGAACCGGG GCCGGCCAGACGAGACCGGAGGGAAAAGGCCGAAGAGAGGGA AAAAGAAACAGGGAGCAGACCAGGGGGACAAAAAAGAAAAAA A A A C A GA $\operatorname{A} G A G G G G A G G C C G G A A G G G G A A G G A A G G G G A A G G G$ GAGGAGGGGACAAAAACGGAGAGAAAAAACCAAGGGGGGGGA A G G G GAA $A \operatorname{GGGAAC} C G G G G A A G G G G A A A A A A G G A A G G G G G G C$ C G G G G A A A A A A A A G G G G A A A A G GAA $A \operatorname{GGG} G C G G A A A A G G G G C$ C A A C C G G G G G G G G A A G G G G G G A A $\mathcal{A} G G G G G G G G G A A G G G G G G G$
 $G G G A A G G A A A A G G G G G G A A G G G G G G A A A A A A A A G G A A A A G G G$ GAAAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAACCGEGGA A G GAACCGGAAGGCCAAAAGGGGCCGGCCGGGGGGAACAAAC C G GAAAAGGAACCGGGGGGGGAAAAAAAAAAGGGGAAAAAAA A G G G G A A G G G G A A A A A A A A C CAAAA A G G GAAAAAAAAAA A A A A A A G G A A G GAA A GAA $A \operatorname{AGGGAAAAGGGGGGGGAAAAAACAAAG}$ G G GAACCGGGGGGCCAAGGAAAAGGAAAAAAAAGGCCAAGAA A G GAA $A \operatorname{GAAAAAAGGAAAAGGTTAAAAGGGGAAGGGGAAAAC}$

CAAAAGGGGAAGGGGAAAAGGGGAAAACCAAGGAAAAGGGGG
 A A A G G A A G G G GCCCCGGGGGGAAAAGGAAGGAAAACCAAGAC CAAAAACAAGGCAAGGAAGCCCCGGAAAAGAGAGACGGAAAG G G G G GAAAGAACCGGCCCCAAGGGGGAAAAAGGGAAAGGGGG G G A G G A A G A G G G A T T G G A C G A A A A G C A A G A A A A A A G G A G C C G GAAGGAAAAGGGGAAGGCCCCGACCAGGAGGGGAGGAAAACC C G G T TATA $\operatorname{T}$ AAAGAGGAGAAAGGCAGGAGGGGCCAAACGAAAA ACCGGGAGACCGAGGAGAAGGGAAAAACCGGAACCCAAAAAA AAACGAGAAAGGGGGAAAGAGGGAAGAAGGGCACCGAAAAAA AAAGGAAAACGCAGAGAGGGGAAGGAGGGAGAACCGGAAAAG

 A G G G G G G A G G G G G C C A A A G GA G G A G G G T A G G A A A A A C G G G G A A G G GAAAAACCAAGGGAGGGGAAAGAGGGGGAGGGAAAAAAG G GAAA AAAGGGAACCGGAGAGAACAAGGAGGGAGGGGCAAAAA GAGGGGGAGGGAGAAAAGGAGGACCGAGAAGAAGGGGAAAAA G GAACAACCGGGAAAGGGGAAAGGGAAGAGAAGACGGABAAG $G G G A A G G A A G G A A A A G A G A G G G A G G G G G A A A A C G G G A G A A G A$ G G G A A G G A A G G A G G G A A G G T T A A C CAGGGAC GAA GCAA G G G A A G GAAAAAAAGGAGGGGGGAAAAGGGGGGAACCGGCCAAGAAA A G G G G A A A A A A G G A A G GAA A G G G C CAAAAGGGGGGAAAAAA $A$ G G G A A G G G G G G A A G G A A A A A A A A A A A G G G G G G A A G G A A G G G G G G G G G G G G A A A A A A A A G GAA $A \operatorname{GGGGGGAAAAAAGGAAAACACAA}$ A A A C C G GAA A GCCCCGGAAAAAACCAAGGAAGAGAGG
A GAACCAAGAGGGGAGGAGGACCAGACAGACCGGAACAAGC C G G G G GAAA A A A C G G G GAA G G C C A GAA G G G GAA A GAA GA G G A A A A G G G G G G A G A A $\mathcal{A} G A G G G G G A A A G A A A G G G G G G G A A A A G A A$ AAAGGGGAAAGGAGAAGATGAAAGGGGACGGGGGGAAAAGGG AGGCCGGAGAAAACCGAAAAAAGAAGACAGGGAGACAAGATA G G GAA A G G GACAGAACAAAGGACGGCCCAAAGAAAAGEGAAA AAGGGAGAAGAAAGAAGGGAAAAGAAAGAGGAGCCAGGACAG GAAGGAGAACAGAAGGGAAAGATGGAGGGGGGGAAAAAAAAA A A GCAGACAGGAGCCAAGGGGGGGGCAGGAGGACAAAGAGAG G G G A A A A A G CAA A A G G G G G A A G G A A A A A A GAAAC A A A G G G G A A GAAA AC G G G A G G A GAAAAAGAAGGGGCCAAGGGGGGAAAAG AAACAGGAAAAGGAAGAAAAACCGGGAGAGAGGAACGCCGGG
 G G A A A G G G A C C A A A A G G G G G G T T G A C CAA G G CAAAAACA A A A G G G G G A G G A G A G G G G A A A A G G G G A A A A A A G G GAAAAACA A A A $A A G C A G G A A G G G G A G G G A A G A A A G G A A C A A G A A A A C C G G G G G$ GCCCCGGAAGGGGACAGGGAAGGGAGGGGGAGGAACAGACCB GCCGGGAAAGGGGAACAGAGGGGCAAAAGAAAGAAGGGGTTA A A A A A G GCCAAAAGGCCGGGGGGCCGGAAAAGGAAGGAACAA
 A G G A A A A A A G G G G G GAACCAAAAAAAAAAGGAAGAAAAAAA G G G G A A G G G G G GCC G GAATTAAAACCCAGGAAGGCCAAAAAAA $A C C A A A A G G G G G G C \subset A A G G A A A A G G A A A A A A A A A A A A C C C C G$ G G GAACCGGAACCAAAAGGAACCCCAAGGAAGGCCCCAGAAG G G G G G G G C C A A A A A A A A G G C C A A G GAA $\mathcal{A} G G G G G G G A A A A G G C$ C G G G G G GCCCCAACCGGAAAAGGAAGGAACCGGAAGGCAAAG $G C C G G A A A A A A G G G G A A G G C C G G A A A A A A A A G G G G G G G G G G A$ $A C C A A G G A A C C C C A A C C G G A A G G A A G G G G G G A A G G G G A A G G G$ GAAAAAAAAGGAAAAGGAACCGGAAAAGGGGAAAAGGGGAAG GAAAAGGAAAAAACCGGAAAACCGGAAAAAAGGAAAAGGGGC C G G G G G G C C G G G G A A A A G G G G A A A A G GAA $A \operatorname{AGGGGGGGCAAA~G~}$ G G G A A G G A A A A G GAAAA $A \operatorname{AGGGAAGGAAAAAAAAAAGGGAAAA}$ A G G A A $\mathcal{A} G G G G G G G A A G G G G A A G G G G A A A A A A G G G G A A A A A A A$ AAAGGAAGGAAGGAAGGGGAAAAGGAAGGGGCCAAAAGGGGG

G G GAAAAAAGGGAAGAAGAGAAAAGGGAAGGAAGGGAAAAA A G A A A A C A A A A A A A A A A A ACCCCAAGGCCGGAGTTAAGAGAG A GAACAGGAAGAACAAAAAGGAAAAAGGAGGGGAAAGGAAAA GAGCCAGGGACCAGAAAAAGGAGGGACAGGAGGAAAGAAGAG GAGGGGGGGGGCCGCGAAAAAAAAAGGAGGAGACAGAAAGAA
 AAA $A \operatorname{GAAAAAAAAAGGCCGGCCAAAAGGAAAAGGGGGGGGGGC}$ C G G A A A A A A G G G G G GAAAA A G G G G C C G G G GAA $A \operatorname{A} G G A A A G G G G G$ G G G A A A A $\mathcal{A} G G G G G A A G G G G G G A A G G G G A A A A A A G G A A G G G G G$ AGGAGAGAACCAAAAGAAAGAGGGGGGCCAACGGGGGGGGGG GAGAGAGAAAAGAAGGAGGCCAAGGAAGGGAAGAAGAAAAAA A G G G G A A G A A C A A A A A A A A A GAGAACCGACCGGAGGAA G GAG A GAGGGAGGAACAAAAAACGGCCGGGGAAAAAGAGGBAAGBA A GAGGAAGAAGAAAAGGGGGGAGAGAAAAAATTAAAAAACAA G G GAGAAGGAAAAGGAAACAAGAGGAAGGGGAAAAGGCCGGA A G G G GCCAAAAGGAAGGAAAAGGGGGGAAGAGACAAGAAAAA GA $\operatorname{G} A \subset G A A G A A G G A A G G A G G A G G G G A C G G G G A A A A G A A A G G G$ G G GAGGGACGAGGAGGGCCGGAGAGAAGAAAAG
$113115000-9 \mathrm{G}$ - 0 G G G G C C G G G G G G G G A A G G A A A A A A A A G G G G A AAAGGAACCCCCCAAGGAAAAAAGGAAGGAAAACCAAAAGGA $A C C G G G G A A G G G G G G G G A A C C A A A A G G G G C C G G G G C C G G G G A$ A G GCCAAGGAAGGGGAAAAGGGGAAAAAAGGGGAAAAAAGAA AAAAAGGAAGGAAAACCGGGGCCGGAAGGGGAAAAGGAAAAA A A A G GCCGGCCAAGGGAAAGGAGGAGAAAGGGGCCGAACAGB A G G A $\operatorname{G} G A G G G G A G G G G G G G G G G A A A G G G G C C A A T T G A A A G G A$ A G G GAGAAGGACCGGGGAAAAAGAACCGGGGGGCAGAAAGGA AAAAAGAAAAGAGGAAGGGAAGGGAGGCAAAACAGGGGGGGA GCAGAAGAACCAAAAAAGGAAAGAAGGGGCCGACCAAAAAAG GAAGGAACCGGAACCCCGGAGAAGGGGAAGGCAAAAGTXAAG GAAAGGGGAAGAACCAAGGAAAAAACATTCCAGGGCCGGGGA AAAA $A$ A A G G GAAAGAAAAAGAAAAAAAAAAGCAAACCAGAAA A A GAAA A A A A G GAAGGGCAAAGGGGCCGGAGGGAAAACCGGA AAAAACCAACCGGCCGGCCGGAAAACAGGGAAAAAGGGGGGG G G G G A A A A A G G A A C C A A A A G GAGGAAGCCGGAAGGAAAAAAA
 A G G G G G G G G C A C C G C G G G G G G G G G G G A G G A G A G C A A G A A G A A A A A GA $\operatorname{A} G A A G G A A G G G G C C A A G G G A A G G G C C G G A T G G G A A A G$ G G GAAAACCGAGAAACAAAGAAGGAAATAAGCCGAAAGGGGA G GCAAAAGGAAAACCCCGAGGAAAGAACCGGGGAAGGGGCCA GACAAGGCCGGAAAAAAGGGAAAAGGACCAGAGAACAGAAAC AAGAAGGGAAAGGGGCCAAAAGGGGAAGGAAAAAGAGAAAAC CAAGGAAAAGAGGGGCCAAGAGGCAACGAGATAACAAGACGG A GCAAGAGAGGGGAAGGGGGGAAGGGGAAGGAAGGAAAAGGC C G G G G A A G G T T A A A A G G G G G G A A A A C CAAAAAAAACCAAAGGG GAAGGAAAAGGAACCGGAAAAGGGGCCGGAAAACCAAGAAAG G G G A A G G G GAACCAAAAAAAACCGGCCAAGGAAGGAAGGGGA A G G A G A G A GAA $A \operatorname{GGG} \operatorname{GAACCGGAACCCCGGAGAAAAGAAAAGC}$ AAACCGGCCCCAAAAAAAAGGAAGGAAACAAAAACAGGGGGA GCAAAAAGGAAGAACGAAGAGGAGGGAAAAGGAGGAGGGGGC A G G G G G G A A A A C C G A G A A A A A A A A G G G G GAAAA A GCAAAA G G GAAGGGACAGAAAGGGGAATAACGGGGGGCCAAAGGAAAGAA A G G G A A A A GAGTA $\operatorname{A}$ A GAGAAGGGGGGCAATGGCAAAAGAAGGC C A A A G G G A A A A A A G A A A G G G G A A G G A A A A G G TA G G G G A A G A G AAAAAAAGGCCGAGGGGAGCAGAAACCAGAGAAAAAAAAGGA GAACGGGAAGGCCAAGGGGCCAGAGCAAGAAGGCCGGACAAA A A A A ACCGGAAGGAAAGAAAAAAAACCAAAAAGAGGGGACAA
 $A G A A A A A G G G A A G A G G G G G A A G G G G A A G G A A A A G G A A G G G G G$ GAGGGGGAAGGAAAAAAGGAAAAAAAAAACCGGCCAAGAGAA

A G G G G G G G GAAGGGGAACCGGGGAGAAAGAAGAAAAAGACCA A G G A A A A G GA GCC G GAGCC GAAAAAAGGGAGGGAGAAGAAGC AAGCCCAAGAAGGAACCAAGGGGAGGGCCGAGGGGAGGAGAA A A A A C A GAGGGGGAAGAAGAAAACCAAGGGGCCCCGAGAAAA AAAGAGGTTCAAAGGAGCCGGGGAAACGAAAGAGGCCAGAAA A A G G A G G A G G G G G A A A A G G G G A A A A A CA $\mathcal{A} G G G A A A G A C C G G G$ G G G A G A G G GAGAAAAGGGGAAAAAAGGCCGAACAAACAAAAA A A A A A A A A A G G GC G A GAGAAGAGGAGGGACAAACCAAAAGGA A G G A A A A G G G G G G A G C C G A G G G G G G A G G A A GAAA A C C G C A G G AGGGAGAAGAACCAGAAAGAAACGGGGGGAAGACCAGGGAGG GAGAAAGACAAAGAAAAAAAAGAAAGAGACAAGGAGAACGAA A G G G G A A A A A A GAACAACCAGAGGGCCACGAAAGGCCGAGAA G GAAGGAGAGACCAGCCGGGAAAACCACAGAGGAACCGAAAG G GAA A A A G GAA A A A GAAAAACGAAGGGAAGGGA GA G GAGAAC G G G GAACCGAGACCCAGGGACAGAGAACCCGGCCAAAGAGGGA A G GAAAAAAAAAAGGAAAGGGCCGGAAAGGGAAAAGGGAGGG GAAGGGGCCCACCCCGGCAGGAGGAAAAGGAAGGAGAAGAAG G G GAAAAGAGAGGAAGGAAAACCGGAAGGAGAAGAGGCAA GA A G G A A C C G GAAAACAGAGGAGGGGAGGGGAGGGCCGAACCCG GAAGGAAGGGGAAAAAGAAGGGGCCAAGGAAAAAAGCCAGGG GACGAGGAGGGAAGACAGAAAAAAAGGAAGGGGAAGGGGGGG G G A G A G A G G G A G G G A A GCGTTGGATGAAGAAAAAAAAAACAA G GAAGAGGAGAGGCAGAAAAGGGAGAACCGAAGGAAAAAAGB GAAAACCAAGGGGAAAGAGACCAAGAAGGGGCCGGAGAACAA
 G GAA A A A G GCCAACCGAGAAAAAAGGGCCGGCGAAAAGAAAC C G GAATAGAGGGAAAAGACAGAAGAGAGGGAAAAGAAGGCCA
 GACAAAAGGAAGGGGAAAAAACCAAAAGAGGAAAGCCGGGGG
 A G G G G A G G A A A A A A A G G G G G A C C G G G G A A A G G G G G C C C C G G G G G GAA A A A GAA A A A G GAGGTAGAGGCCGAAAAAGGGGGAGAG GAAAAAGGGAGGAAGAGGGCCAGGGGGAAAGCCAACCCAGGG G GATTGGGGAAGGGGACGAAAGAAAAGAGGGAAAGAGGGGGG GAGAAAAGGAAGGGAAGAAAGGAGGAAAACCGGGGAAAGAAA A A A G G A A A A G A A G GAGAAAAGGGAAAAAACCGGGGAAGAAAA A G G G G G G A A G G G GCC G G G G A A G GAAAAGGAACCAACCAAGGG G G GAA A G G G G G A A A A A A G G G G A A G G G G G G G GAAAAAAAGGGGC C G G G G C C A G G G GAAAAAAGGGGAAGGGAAGAGAAGGGAGAA GA G G GA GA GCGGAAAAAGACCAACCAAGGAAAAGAGGGGAGACA AGAAAGAGGGGAAAAAGAAGAAGGAAAAAGGAAAAGAGAGAA
 AAGAGAAAGAAAAGGGGCCAAGGGGGGAAAAGGGGAAGGGGT TAAAACCGAGGATGAGGCCGGAAAAGGAAGGAAGAAAGGGGG G G G GAGGGGGGGGAAGAAAGGACAAAAAAAGGAAAGGGAAAG GTTAACACCGGGGCATTGGAAGGCCAGGGAAGGGGGCABAAG G G G A G A G G A A A A A G GAAC CA A A A A A G G GAGAGGGGGGGAAA C CAACCGGGGGGAAAAGGAAGGAAGGAAAACCAATTGGAAGBA A A A A A G G A A G G G G G G G G A A A A A A A A G G G GAA $A \operatorname{A} A A A A A G G G C$ CAACCGGCCAAGGGGGGAAAAGGAAGGCCAACCAAAAAAAAG GAAGGGGAAAAGGAAAGTTCCAAGGTAAAAACAGGGAAAAGA GAGAAGAAAAAAGGGAGACACAAAGGGCCAAGGTAAAAGGGA
 A G G G GAAGAGAGACCGGCCAAGGAAGAGGGGGGAAAAAAGGC CAACCAAGGAGAGACCCGGGGGAAAAAAAAAGGAGEAGAAGG A A ACCCAAGAGAGGAGGTTACGAGAGGACACCAAGCAAGACG GAGGGCCCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGG
 AAGGAAGGGCAAAAAAAAGAACCAGAGGGGGGGAAGGAAAAC
$C G G C C G A G G C A A A G G G G G G C C G G G C A T A A G G G G A A G G A A A A G$ A A GAAA A GACAGAGAGAGGAGAAAGAGAGAAGGCCAAAAAAA A A C C A G A A G G G G GC C G G G G G G A A C C G G G G G G G G G G A A A A G G A A G G G G G G G GAA A GAAAAGGAAAAGGAAGGCCGGAAGAAAAAC $C G G A A G G A A G G G G A A A A G G A A A A C C G G A A A A C C A A G G A A G G G$ GAACCAAGGAAAAGGAAGGGGGGAAGGCCAAAAAAGGCAAAG
 AAAGGGAGGGGCCGGACAGCCAAGAGGAACCGAGACAGAGAC CACGGGAGGCAGGCAGGGGAAACAAGGAAAACCGGGGAGGGG G G G GAGGAGAGAAGGCACCGGAGGAAAGGAAAAAAGGGAAAA
 GAACCAAAAAGTAAAAAGGGGAACCCCCCCCGAGAGGCAABA GAAACAAGGGGGAAAAAGGAGGGCGAGAGCCGGGGGGAGAAC C C C G GAA GAAACCAAAAGGAAGAAAAAGGAACCGGAAGGGGG AAAGAGGAAGAAGGGAAGGGGGGGGAAGAACAGAACAAAGGA GAAAGGGGGAAGGAAGGAGAACCAGAGGAAGGAAGGGGAGAG
 GGGCCCAAAAAAAGAAAAAAGAACCGGAGAACCACAA
$G \mathrm{G} T \mathrm{~T} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} C A A A G G C G G A A G A A A A G$ $G C C A A G G G G C G C C G G G G G G A A A A G G G G A A G G A A A A C C C G G G A$ $A A G C C G G G G A G G G A A A G C A G G G G C C A G A A G G A G A G A A G A G G A$ GAGAGAAAAGGCCGGAAAAAAAAGGACAAAAAAAAGACCGGG G G G G G G GA GA $\operatorname{G}$ A A A A A A A G GAGCCAGACAGAACCAGAGGGACA A A G G G G G A A G A A G A A G A GAGGAAAGGGAAGAAAAAGGAC GAA $A C C A G G A A G A A A A A A A A G G G G A A C A A G A G G G C G G G G G A A A G B$ GGGCCAAAGGGGACCTTCAGAATAGGAATAAGAGGGAAAAAG
 GAAGAGGGGGGCCCCCCAGGAGGAAAAGGAAGGAGGAACGAA GAAGGGGGACCGAGGGAAGCCGGGGAAGGGGAACCAGGGCCG GAAGGAAGAGAGGGGGGGAAAGGAAAAAAGGGGGGGGGACAA A A GCCAAAGGGAGAAAAGAGGGGAGAAAAGAGGAGGGAAGAG GAAAAGAGGGGGAGGCCGGCCAGAGCCGGGGCCAGGGAAGAA A A G GAGGAAGGAGAGCCAAGGGGAGAGAAGGAAGAAAAAAGG GAAGGCCTTACACGAAAGGGAGGGGAAACAAGGGGAAAAGGG G G A A G A G G A G A A A G G G A GAAA $A \operatorname{A} G A A G G A A A A G G G G A A A A G A A$ A A A GAGAGGCAGGGAAGAGCCGGGAACGAAGAAAAAAAACAA A GACCCCAAGAAAGACAGAAGGGGGGGGGAGAGAAGGGAAAA A G G G G G G G G G GCC G G G G G G GAA A A G G GCCA GAAAA G G G G CA A AAAGGGAAAGAAGGGCAAAGAAGGACAAAGAAAAGGGAAA GA GAAGGAAGGAAGAAAGAAGCGCCAAAGAAGAGGGACAAAAGG GAAAGAGAGAAGACAAAGAGGAGAAAGAACAAAGGAAAACAG G G G G A A C A GA G A TAA A GAAAGAAGGAGGGGGCAAGGAAAAAG GAAAAAAGGCCACGACCAAGGAAACAAAAGGAAACCCAAAAA GAAGGAGAAAAAGGGAGAGAAGGCAAAGAAAGGAGAAAGGAG GAAA $A \operatorname{A} A X C G G G G G G A G G G A G A A G G A G C G G A A G A A G G G A G A G$
 C CAAACCAAAAGGGACAAACCAAGGAAGGAGGGAGGGGGGGG GACAAGGAAGGAAGAAGAAGGGGGAGAAAGGAAGGGAAGAAA A G GAAGGCCAAGGCCCCGGGGAGGGAAAAGGAAAAAAGGAAC C A A A A A A A GAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGAC C CA $A \operatorname{GGG} G A G A G G G G A A G G G G A G G G G G A C A G A A A A A A A A G G A$ AAAGGGGCAACATGGCCCCGGGACCAACAGACAGGGAAATAA G G A A G G A G A A G A G G A A A $\mathcal{A} G G G G G A G A A A A G G G G C C G G C G G G G$ GCAAACCGGAGGGGGGGAAAGGAAGAGAAAGGAAAAACAAGA GAGCGGGGGAGGGGGAGTTGAAGAAAGAGGAAGGAAACAAAA AAAAAGGAAAGAAAAAAGGGGAACCCCGGAAGGAAAAGGGAA $A C A G G A G G A T T G G G G G A C C G G A A A G C C C C G A G G G G C C G A A A G$ G G G GAAACCAAAAGAGACAGGAAAAAAGTTTAAAAAAG GCCA $A C C G G A A C C A A C C A A A A A G C C A A G G A G C C A G G G G G G G A A A G A$

A A A G G A A A GAAAGCCGAAAAAGGAGCACCCCAGCCCCACAGC A G G A A A A A A G G T T G A G G G GCC G G C A A A G G A A A A G A A A G G G G A AAAGGAAAAGGAAAAAGATAGAAGAAGCCAAGGAGAAAAGGA A A A A G G GAGGAGAAAAGAAAGGGAGACAGAGGAAAGAAGGGA ACAGAAAGAAGGGGGAAGAAACCAGAAGGCGAAAAAAGAGGG GAAAGAAAAAAAAAAAGGAAAAAAAGGGGGGAAAAGAAAAA G $A G A G G G A A A G G A A A G A G G G G G A A G G A A G G A C A A A G G G G A A A G$ $G C C A G A A G G A A C C A C G G A G G A G G A A A A C A A A G G A G C C G A G G A$ G G G G G A T G G A C G G A G G G A G A A G G A A A A A A C GGGAAAAAAAAC CAAAACCACGGCAGGGGCCGGAAGGCCGGAAGGGGGGAAAAG GAAGGCCAAAGAAGGAGAAGAAGGAAAAACAGGAAGGGAAAG GAAACGGAGGGGGACCAGGGGAAAAGGCCAAAGCCAAGAGAA A G G A A C C T A G G G G C C G G G G G G A G G A A GAGGGAAAGCA GAAA $A$ GAAGGGAAGGGGGGAAAGGAAGGAAAAGGGGAACCAAAGGGA GAAAAGGGAGGAAAGGGGGAAGGCCGGAGAAAGGAGAAAGAA G G G G G G GAA $A \operatorname{GGGA} A A G C C A G G G C A A G G A A A G G G G G G C A G A A$ A G GAAA $A \operatorname{GAA} A A A A A G G A A G A A G G G T T A A G G A A G G G A G G G A A$ A G GACAAAGAACCAAAGCAGAAGAGGGCCGGGGACATACGGG AGGAGAAAAGACCCCGGGGAAAAGGAAAAGAAAGGAAAAAGA T G G A G A A G G A GCAGGCCCCGGAAGGCCAAAAGGAAAGAAAGA GAGCCATGGGGAGGAACGGAGAAGGAGGGAAGAAGAGAGGGC AAAGGCGAGAGGAAAAAGAGGGACAACGAAGAAGGGGAAAAA $A C C A C G G G G G G A G A G A G A G C A G G G G G G A A G G A A A G G G G A A A A$ A A ACCAAAAAAAAAAAAAAAGAAGAAAAAAACCGGAAAAAAA AAACGAAAAGGAAGGAGGGAGAGTTGGAAAAGGAACCAAGGA AAAGGGGTAGGAAAAGGGAAGAGAAGGCCAAAAAGAGAAAAC CAAAAAAGAGACACCTACCGGGGAAGGTTCACCCCAAGAAAA A GAGGGGAAAAGGAAAAGGAACAAAGGAAGGGGAAAAAAGBA A G G A A A A A A C C G GAAAA $A \operatorname{A} G A A A G A A A G A A A G A G A G A A A G G G G$ G G G G G G G G A G G GA G GAA A G A A A GAA A A G G G GA GAAAA A G G G G
 G G GAACAGAGGGGGGGGAGGGGAAAAAAGGGAGGGAGGGAGA T G GAAAAGGGGGGAAGGAAAAAAGAGAAGACCAAAAGAGCCA A GAGGAACCGGAAAATTAAAAAATTTTCCAAAAAAGGGAAAG
 A G GAA A GCAAAGGAACCGAAAGACCAAGGAAACGAGGAGGAA G G GAACCAACAGACCAGGGAAAAGAGAAAAGAGGGGAAAACAC GAAGGCGGAGAAGGGACAAGGGGGGAGGGAACAGAGGAAAAA G G A A A A G G G A A A G A A A GAA $A$ G GAACCGAAGAGCAAAGGTXACA $G C C G A C C G A A A A G G A A A A A A A A A G G G G G A A A A A A A A C A G A G G$ G G G A A G G G G G G G G A A A A G G A A A A GAGGAAGGGGAACCGAATA $A C C G G C C G A G G A A A A A A A G A A G G A A T A G G A A A A G G A A G A G G A$ AAGACGAGGAAGGAGGGGCCAAGAAGACCGGGGGGCCCCGGA G G G G A A C A G A A G G A A TAGGGGGGAAAAGGAAA GAA G GAAGGGG
 TA $A$ A $G G G C C G G G G G A C C G A A C C A G A A G C A C A C C C C T A A G T A T$ T G G G A A A A GAAAAAAAGAAGGAGGGCCCCAAAA GAA GAGGGG G GGAGGAAGAAGGAAGAAACAAAAAGGAAGGAAGGCCGGAAA A G GAA A A A A CA $A \operatorname{A} C A G A C C A A G G G G G G A A G G A A G G G G A G G A A$ A G G G GCCAAGGTTGGGAGAAAGACCAGAGAGAGAAGGGAGAC A GACACAAGAGGGGGCAGAGGAAAACCAAACGGTTAGAAAGC A G GAAAAAAGGAACCAAAAGGGGGGAAAAAAGGAGAAGGGGAA A G G G A G G G G C C G G G G G A G G G A G A C C A C A C A A A A T T G G A A G G A AAAGGAAAAGGAAAGAGGACCGGGGGGGGAAAACAAGAGAGA GAGCAAAGGAAGGAAAGAAAACCCCGGGGGGGGAAGGAACAA A A A A GAGACAAAAGGCACCAAAAACAGGGCCGGCCCAAACAG GAGCCAGAGGGGAAGACGAAGCCGGAGGGAGGGAGGAGAGAG GCCGAAGGGAAGGAGCCAGAAAACCAGTAGAACGGCCGAGAG AGGAAGAAAGGGGGGGGGGACAGGGAAAAAAGAGAAAAAGAA

GCAAAGAAGACAGAGGAGGAAAGGGGGAAGGCCAGAGCACAG $A G A G G A A G G A A G A A G C C G G G G G G G G A A G G A G A G A G A G G A G G G$ A G G G G A G G G G C A G G G G G A A G G A A A A GAAA A A A A A A G G G C C G G A GAAGGAACCTTAAAAAACCGGGGAAAAAAAAAGCAAAAAAAA A A A GAAAACCAAACAAAAGAAGGAAAAGGAACCCCAAGAAAA A G GCCAAGGGAAACCGGGAGGCCGGAAAAAAGGCCCAAAGGA A A A A A A A A A A GCC G GCCAAAAGGACAGGAAGGGAAGGGAAGG AAGAGGAAGCAAAGGAGGAAAAACAAAGACCAAGGCAGACCA G G G A C A G A GC G A G A GAA $A \operatorname{GAAAAAGGAAAAGGGGGGCCCACCG}$ A GAAAAAGGGGGGAACCGGAAAAAAAGGAAGGGGAATAAAAA $A C C C C G G C C A G G A G A G A A C C A A A G G A A A A A G A A A A A A A A G G A$ $A G G G G T T A A G A A A A G G A G A G G G G A A A A G G G G A A G G C C A G G A G$ G G G G G G G G G A A C C G G G A A C G GCCGGAAGGAAGGCC G GAA G G A A A C G G A A A A A G A G A G G G G G G A A A G G C C G G G GAA $A$ G G A A A $\mathcal{A} A G$ A A A A A G G GAATCAAAAAAAGGGGGGAAAAAAAAATAAAACCG GAAAAAAAAAAGAGGAGACCCGGTTAGAAAACAAAGGGGCCA
 T GAAAAGAAGGGGAAGGAAGAGGGGAAGGGATTGGGA
AAAAGGGAAACCGGGGGAAAGGAAGGGGAACCGGGAAACCG A G GAC GAA A ACAACC GAAGGGCAAGGGAACACAGAGGGGGAG GAGGAAGGAGAAAGGAGGAGAGGAAGGAAAATAGGAAAAAAG G G GCCCCGGGGAAAAAGCCGAGGCCAAAAGGACGGGAAATTG GAGCGAAGGCAAAAAACGAAAACAAGGAGAAGGAAGACAAAA TAACAACAAAAAGAAGGAGAAAAAAAAAAGGAGAGGGGGCCG
 AAGCCAAGGGGAGGACACCGGGGCCAGAAAGAGGAGGGGGGA
 GAGGGGGAAGGAAAGAAAAGGACAAGGGGGGGGAAAAAAA G G A A $A$
 GAACGAAAAAGGGAAAAAGGGGAAAAAAAGGAAAAGGGAAAA GAAGGGGACGGGGCCAGGGAAAAGGAAGAAGAAAAAGGAAGAA G G G G G G GAAAAGGGGCCGGGGCAAGAGAAGGGGAGAAAACCC
 G G G G G A A G G C C A G A A C G A G A A G G G G G A G G A GA G A A A A G G A A A C G G G A A G G G A A G A G A A G G A GA G A G G G G C C A A G A A A T T A G G G A AAAGGAAAAAAGGAGAAAAAAAAAGGGGGCGAGCCTTAAAAG G G GAGAGAACGGGGGACAGGGCGCCGGAACCAGAAGAAAAAG GAAAAAGACAAAAACGAGAAAAAGGCAATCCAAAGAACAAAC C G G G G A A G G A C G G G A G G G GCCAAAGGAAGAGCAGAAAGAAAC
 GGGCCACAAAAGGGGGAAAGGGGAAAAAAAAAAGGGACAAAG A A C C A G G G A A A G G G G G A G C G G A G G G A G A G G G G G G A A A A G G G A A GAAAAAGGAGGAAGAACCAAGGGAACGGAGAGCCAGCCAGG GAAGGGGACAGCCAACCAAAAGAGGCCGGGGGGGGCACAAAG $G C C A A G G C C A A A A G G A A A A A A C C A A A A G G A A A A C C G G G G G G G$
 G G G G G G A G G C C G G C C G G G G A G G G G G A A C C A A G G A A A A A A G G C C G G G GCAGGGGAACAAGGAAAAAGGGGAGAAGAACCCCCGBA ACAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGGAACAAGG $A C C A G A G G G G A G A A G A G A A A A G G A A A A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGAAAAGAC CAAGGGGAAGGGGAAAAAAGGGGGGAAGGAAGGAAAAGAAAA ACCAAAAAAAAAAGGCCGGAAAAAAGGCCGGGGAAAAAAAAG GAAAACCGGGGGGAAGGAAGGGGCCAAAAGGCCGGAAAAGGG GAAAAAAGGCCAAGGGGAAGGGGGGGGAACCAAGGAAAAAAG G G G G G A A G G G G G G G G A G G G A C G A G A A A A A GAAAA A GAGAC C G A A A A GAA $A \operatorname{GG} \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A C A C G G A A A A G G A A A G A C G A G A C A A$ A G GAGGAACGGACAGGGAAAAGGACGGAAGGACAGAAGAAAG
$A C C G G G G A G A G G A G G A A G G T T G G A A A A G G A A G A A G C C G A A G A$ AAAGGGGCCACAGGAAAAAAAAAAAGGCCAGGGCCGAAAAAG GAAAGGGGGGAGAAGAAGGAGAAGGAGGGCAGAGGGAAAAAG GAGAAGAGAGGAAAAAGAGAAAGGAAGGACAGGGGGGAGGGG
 A A A A A GAA $A \operatorname{GA} A A G G G A A G A A A G A A G A G G G G A A A A C A A A A A G$ GAGGGGGAGAACAAAGGGAGGGGGAAGAGGGAGAGCCAACCG C GAGAAAAAGGAAAGCAGGAGGGGAAAAAAAGGAGAGGACAA G G A A A A GA G G G A A A GACAAAAGGAAGAGACACAGACAGAAAA A G GAAAAGGAGGGGGGGGGAGGAGGGGGGCAGGGGGGGGCAA ACACCGAGGGAGGCAAAGGAAAAGGAACCAAAGCCAAGAAAG GACGGGGAAAAGAGAGGGAGAGGGGGGAAAAGGAAAAAAGGC GAAGGCCGGCCGGGGAAAGAAGGGGGGAAGGGGGAAAAAGBA A G G A A A A C CAA AGAGAAGGAACCAAGAGAAGAGAAAAA GA GA CAAAAAAAAAAAAGGTAGGAGGGACCCGGAAGAGGGGGAAAC
 $A G G G G A A A A G G A A A A G A G G A A G A A A G G A A A G A A G A G G G G G G A$ C G G G G G GCCGGCAAGAAACAAGAGGAACCGAGGAAGGGGGGA AAGGGGGAAAACCCCGGAAGGAAAAGGAAGGCCATAAGGCCA A G G G G A G C C A A G G A A A A A A A $\mathcal{A} G G G G A A G G G G A A G A A G A G A A G$ G GAAAGGGGAAGGAACAGGAGAAGGGGGGAGGGGGGAGGAGG GAATAAGAGGGGAAACCAAAAGGAACCGAGAGAACAGAAAAG A A A A A A A A A G GAAA A G GAA G G GAAAAAAAAAGGCAGAAAGGG A A A A G G G G G A G A A G G G A A A A A A A A G C GAA $A \operatorname{AGGGAAAAAAGAG}$ A A G G G T T G G G A GA G A A G G A A A A A A GAGGATTGACCAACCCCC C GAAAGGAAAGGGGGAAGACAAAGGAGGAGGAAGGCCCCAAA AACAAAAGGGGAAGGAAAAAGAGGAAGAGAGAGAGGGAAAAG G GAAAGAAACCGGGAACGGAAAACCAAAAAGAAACGGGGCCA GAGAAAAAAAAGAGGGGCCGGCCAAAAAAGGGGGGAGAAAGA AAAACAGAAGGGGAACCGGAGAAAAAAAAGAAAGGAAAAGAG GAAAAAGGGGGAAGGGGGGAGGAAAGGAACCAAGGAAAAGGA A G G G G GAGGGGAAAAAAAAAAGGAAGGAACAGGAACAAAAGG GAAGGAAAAAAGGAAGAAAGAAAAAGAAAAAAGCAAAA GAAA A A A A A A A A $\mathcal{A} G G A G G G G G G G A A G G A G A G A A A A G A A G C C A A A G G$ A $G G G A A A A A G G A G A G G G A G G G G G G A A G G G G A A A A G A A G A B A A A$ A A A G G G G G G GCGGAGGGGAGACAAAGGGAGAGAAGAACAAGG
 GGACCAAAAGGAACCGGGGCCAGCCGAAGAGAAGGGGGAAAA A G G G GCCAACAACGGAAGGGGCAGGAAAAGACACCBAAGGBA
 GAGCAAGAGGGAGGAGGGGGGAGAGAGGAAAAACCGGAGGGC C G G A A A G A G G G A A A A G G A G G A G G A G G G G G A G G A C C A G C A G G G AAAGGGGAAGGAGGGGGGGAGATGAAGGAGGACAAGAAACGG G GAAGGGGAGGGAAGCAGACAAGGAAAGGAAGGAAGAAAAAA T GAATA $A$ A A $A \operatorname{G} G A A A A A A A G A A G A G A G A G G G G G G G G G G G G G G G$ GAAGGAGAGAGGGGGAAGAAAAGAAGGGGCCGGAACCGGGGT TCAAGGGCAAACCCAGACCGGGGAAGAGACAGGCAAGGAGAC AAGGAAGAAGGGGAAGGCCCCAACCGAAAAATTGGAAAAAGG A GACAAGAAGGAAAACCCAAGGGGATTAACCGAACCGAAACG G A A A A A G G G G G A A A G G G A A G G G A G G A CA $A$ G A G G G A A A A C C G G G C G G G G A G A G C A A G G A G A G G G G G G A G G A G G G A G A T T G G G G G G A

 CACAACCAGGGAAAAAAAAAAGGGAGAGCAGAGGGAAAAGGG C G GAA $A \operatorname{GCCA} A A A G G G G G G A A A A G G A A A A G G G G A A A A A A G G A$ A G G G G G G G G G G G G A A A A G G A A A A G G G G G G A A A A G GAA G G C C G GAAGGAAGGAAGGCCGGAAAAAAAAAAGAAAAAAACCGAAAG GAAGGGGAAGGGGAAAGCCGGAAAGAAGGAAAAGGAGAAAAC $C \subset C C C C C A G A A G G G G C G A G A A G G G G G G G G A C A A A A G A A A G A A$

GAAGGAAGGAAAAGGAAGGAAAAAAGGCAAGGGGGAAGAAAG GGACCGCCAAGGGAAAAGGAAAAAAAAAAAAGGGGGGCAA GA GAAAGGAGGAAGAAAGGAGGGGGAGAAAGAAACAAGGCAGGG GCCGGAAGGCCGGAAGGAAAAAAACAAGGGGGACAGGAAGGG GTTAAGAGACAGAAAAAAAAAAAGGAAGGGGGAAAAAGAAGG $A C C G A G G A G A A G G A A A A A T A C A C G G A G A G G G G G A A G G G G G G A$ ACAGAAAAAACAACCGGAAAACCAAGGAAGGAAGGGGGAAGA $A C C A C A A A A A A G G A A A A A T G G G G A A A A A A G G G G G G A A G G G G A$ A A A C A A A G G C C G A G A G A A $G \mathcal{G} G G G A A G A C A G G G G G G A A A A A A A$ A A A A ACCAAAGACGACAAAGGGGCCAGGGACAAGGAAAAGAA AACAAGGGGAAAGCAAAAAAAAAAAAGGAGAGGGAAGAAACA A A A A C C G A G G G G G G A G G G G C C G G G G G G G G A A A A A T A G G A G A G G GAAAGGGGAGAAAAAAGAGGAAGCAAAAGGAAGAGAAAGAA GAGAAGAAGGGGGAAAAAAAGGGACTTAAAAGAAAGAAAGAA GAAGAGAAAAAGGAACCCCGGAACCAAGGAGGAGGAGGGGGG $G C A A A A A A G G A A A A A A A A G A A G A A A A C G G A A G G G G A A G G G G A$ G G G A A C CAA A A G G G GAAGAGGCCAAAACCGGCCCCAAAAAAA G G A G G G G A A C C G G T T A C G G A C A A G G G G G G G A G A A A A A
GAGAAAAGAAGAAACCGGAGGGAAAAGGGGAAAGGGGGAAB
 G GAGAAGAAGGGGAAAAGAGAGAAGGGAGGAAAAAAGGAGGA G G GAAGAAAAAGGCCGGAGGGAGCCCCGGAAGGGGAAACAAA CAAGGGATTGGAAGAAGAGGGGAGAAAGGACGGGGGGCAGAA A A A A A A A $\mathcal{A} G G G A G A G G G G G G G G G A C G A A G G G A G A A G A A G A C A$ GAAATAGGAAGAGAAAAAAAAAAAAGGGGGGAGACAAAGCCG A A G G GCCGGGGAAAAGGGGGAAAAGAAAGAACCAAGGGAAAA A GAAAGAAAGGGAGAGGAGAGAAGGGGGGAAAGAGGGGAAGA A G GCAGGAAGGGAGGGGGAGGGGAAGGAAAAACACAGAAGGG A A GAA A G A GAGAGAGGGAAAAGAAGGAAAGGGGGGGGAAAGG G G GAA $\operatorname{G} G A A A A A A A A A G G A A G G A A A A A G A A G G G A A A G G A A G G A$ A A A A A GAACGGGAAGCAAGAAAGCAGGAAAGAGAGACGGGGG1 GCCGGAAGGGAAAGAGAGGGGAAAAGGGGAAAAAAGAGAAAA
 C G G G G G G CAG G G G G G G G A A A GCCAGGAAACCAAGAAGAAGAG A A A A A A GAA A GAAGGCCGGAAAAAGGGAGGGAGAAAGAAAAA GAGCCCCGGGACAGGAAGGGAGAGGAACAGGGGACGAAAAGA G G GAAA A A A GAGAGGGGAGGAAGCCAGAGGGACGGGGGAGAA GACGGAGGGAACCAGAATTAAAAGGGGGGCCGGAAGAAAGAA G G G G G A A A A C C C C A A G G A A G G A A G G G G A G A G G G A G C C A A G G G GACCCGGGAGAACGGAAGGGGACAGGGCAAAGGGGGGGGGCC C G GAGGGGGCCAAACGGCAGAGGGGAAACGAAGGGGGGGGGG $G C A C A C G A A A A A A A A G G G A G G A G G G A A G G A C A A G A G G A C C C G$ G GAAGGAAGCCCCAGGGAGCAAGGAGGGGGAAGCAAAGGGGA

 A G G G G A A A G G G A G C C A GAA A GAAAACAA G G G G G GA G GA G G G G G GAAGGGGAAAAGAAGAAAAAAAAGAAGAGAAAGACGAAGAGG G G G GAGAACAGGGAACCAAAAGAAAACAGAAAAGAAGGGAGA $G C C G A A A A A A G A A C C A A G A A G G G G G A A A A G A G G A G G G G G G G A$ A G G A G A G A A T T G G G GAC G GAA $A \operatorname{AGGACCAAGAGGAGCAGACAA}$ G G G A A A G G G G G A A G A A A A A G A G G A G G G C A G G G G T A A A G G G G G GAGGGGCAAGGGGAGGGCCGGAAGGAGGGCAGGBAACCAAGB G G G A G A A A C A G C A G G G A A G G G A A G G A G A G GA G G A A A G G G A G A AGGAAGAGGAAAAAAGAGGGGAAGGGAAGGAAAGAGAAAGGA T G G C A A A A GA $\operatorname{A} G A G G G A C C G G G G G G A A A A G G G G A A G A C A A A C$ C G G G G A G A A A A A A A G G GAGCCAAGGCC GAAAAAAGAGAACAA A GAACGGGGGGGGAAAAGGAAGACAAAAAAGAGAAAGACAAA TCCGGAGCAGGGGAAAAGAGAAAGGGGAACGAAAACCGGAGAA GGGGGCCCCAAGACCAAGAGGAAAGCCAGCAGGGAAAGGTTC

CAAGGAAAGAAAAGGAACCGGGGAAAACCCCCCAACCAAAAC C A A A A G G C C A A G G G G G G G G G G A A G G G G C C C C A A A A A A G G G G G GCCAAAAAAAAGGAAAAAAAAGGGGCCAAGGAAGAAAGGGGA A A A A A A A A A A A A A G G G GAAAAAAGGAAGGCCGGAAAAGGGGG GAAAGCAGACCAAAACCAAAACCAACCAAAAAAGGGGGAAAA A G G G G G GCCAAAAAAGGAAAAGGGGAACCAAGGAAGGGGCCC C G GACGGCAAAAGAAGAAAAAGGCCAGGGAAAAAAGAAAAAA A GAGGAAAGGACGGGCACCGGAAGGGGGGAGGAGGAAACGGA ACCAAAGGAGACCACGACCCGGAAAAAGGAAAACCAAAGAAA AAAAAAAAAGGGAAAGGCCCCCCAAGAGGAGGGGGAAAAAAG GAGGAGGGGAGAAGGGGGGATGGGGGACAAAAAAAGGAAGAC C GAGGAAAGAGGGGAATAAAAAAGGAAAACCGGGGCCAACAA A A C G G A A G G A A A A G G G G A A A GAGCGGGGGAAAAAACAGACAA $G G A C A A A A G G G A A A G G G A A G G G G G G A G G G C C A G A A A A A A G G A$ A G G G G G G G G G GAGGAAGCGGGAAGAGCAGAGACGGGACAAAA AACGAGGACCCGGAGAAACGGAGGGAGGAAGGCGGGGGAAGA
 G G GCAAAAAAAAAAAAAGGAAGGAATAAACCAAAAAAGGCCG GAAAAAAGGCAGGAAAACAAAGAGAAAAGAGAGGAAAAAACA CAC GAAAAAGGAAGAGGAAGGGGAAGAGGGGAGGAAACAAAA CAAGGCCAGAAGAACGGAGACCAGGGAAGACGGAAGAGAAA G GAAGGCCGGGACCAGAGGAAACCGGGGAACCAAAAGGCAAAG
 A G G G GACCACCAGGAGGAAAAGGGGAAAAAAGGGGGAGAGGA CAGGAGAGGGAAAGAAGCACCGGACGGGGGGTTAAGAAAAAA CAGGAGGGGCCAAGGGGACAATTAGAAAAACAAAAGGCCAGA GAAAAAACCAGAAAAAGGGAAAAAAGGGGAAAGAAGGAGAAG GAAAAGAGAGGAGGGGGGGGAAAGACAAGGAGGGGAAGAAAG A G G G G G GAGCCAAAAACAAACAACCCCGGCCGAABAAGGGGG G G G G GAA G GAACCCCGAAGAAGGAAGGCCGAAGAA GAGAGGG
 A GAAAGAACAGGGAGGAGAGGAGACGGGGAACAGGAAACAAG GAAAGGGGAAGGGGGCCAAAAGGGGAAAAGGGGA $\operatorname{A} A A A A G G G G A$ AAACCAGGGAAAAAAAAGGAAGGAAGGAACCGGAAAAGGCCG ACAGGCCAACCGGAAAGGGGGAGGGAACCAACAAAAAGAATA GAGAA $A$ A $\operatorname{G} G A G A G A A A A A A G A A A G G A A G G G G G A G A G A A A C C B$ GAGGGCAATAGAGGAGGAAACAACCCCGGGGCCAGCAGAAAG GAGAAGAGGGGCCAAGGAGAAGGAAGGAGAAAAAGGGGAGGA A G G G G A A A C A A A G G A G A G A A A G G G G C G G A A A C A A GAAAA A G A A A A G A G G A A G A T T G GAAAAAAGAGACCGAAGAGGAGAAC GAA G GAAAGGGGAGGGGGCCAGAAAAGGAAGGGAGGGGAACAAGG GAGGGAAAGGGAACAGAAGGGAGAGGGAAACAAAAAGATAAG G G GAAAAGGGGGGGGAAAGAGAACCCAACAGGAGGGGCCCCG
 A A A G G A A A A G G A A G G G G A G A A G G C A G G A G C A A A C A G G G A C A G G G G C A G G G G A A G G A A A A G GAA G G GAAAAAAAGAAAGAAAAAA A G G G A A A T TAA A GAAGGAAGGAAAAAGAAAAGGAAAAAAGAA ATAGGGGGGGGAACCGGAAAAAAAAGGAAAAAAGGGGAAACB G G G G GAGGGGAGAGGAAGGGAAAGGAACCGAAAAAAAAAACC C C C G GCCA GAACAAGGGATGACAAACAGGGGCCGGAGCCGGG G G G A A G G A A G G A G G G G G A A A C G G A A G G G G A G A C G A G G G A C G G AAAGGAAGGAAAACCGAAGAAGGAAGGGGGGAAAAGGGAAAA G G G A G G C A G G A A A G C G A A G C G G G G A G G A A C C G G A G G A G G G G G G G GA $\operatorname{A} A A G G C A C G A A G A G G G G G G C C A A G G A A C C C A G G G A A A A$ G G A A C G G G A C C G GACCCAGAGGGAAGGGGCCCCCAAAGGCCA A G GAAAAACAAAAAGGAGAGGAAGGAGAGAAAAGGGGAAGAG GAAAAAATTGGGGGGAAAAAGAAGGAAAAGGGGCAGAGAAAG GAAAAGGCAGAAGGGGGAACGGGGGGGAAGGAAGAAGGAAAG GAAGGAAGGAACCGGGAGAGGGGGGACAGAAGGGGAAAAAAG

G G G G G A A G G GAAAAACCGGGGAAGAGAGAGGGGAGGAAAAGAC A G G GAGGCCAAGGGGAACAAAGGAGGGAAGGGAAGGGGAAAA A A GAGAGACGGAAAGGAGGAAGAAGGGGGGGCCGGGAGAACB G GAAAAAAAAGCCAGGGAAAAGGTTAGGGGGGGAAGGCCGGG GAAAAAGACGGAAAACCCCGGAACCGGGGAAAAGGGGAAGAA
 A A A A A A A G G G A G G A G C A A A G G G G G G G G A A A A A A A G C C G G A A C CATAAGGCCGAAAAAAGGCGGACAAGAAACCCCGAAAGAAGC C G G G G G G A A C C G G A A G G A A G G A A A A A A A A C C G GGGC C A A G G A A A A G GCCGGGGAAGGGGGGGGAAAAAACCAAGGGGGGAGAAA GACGAAGAACAGGAGGAGGCAAAGGAAAGGGCAAAAAAAGGA A A CA A G G A A A G GAGACCGGAAGGGAAACACGGAGAGGAAAAA A A A A G G G G A G G G G A A A A CAGAAAAGGACAAAAAAAGGCAGAA A A A G G A A A A A A A A G G G G G G A A GGCCAAAAAAAAAAAAGA GAA A GCCGGAAGAACGAGGAAGAAGAAAGAGAGAATTGGGGCAAAC AAACCGAGAAAGGAAAAAAAAAAAACCGAAGAGGAAGAAAAA A A ACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAAACAA A GACCAACCAAAAAAGGGGCCCCGAGGAAGGAAACAG
AAGGAAGGAGACCAAAGAAAGGAGAAGGGGGGAAAAGGAAA
 $G C \subset C C A A A A G G G G G G G G A A C C G G A A C C G G G G A A G G A A G G A A G$ GAAAAGGAAAACCGGAAAAGGGGCCAAAAGGAAGGAAAACAC CAAAAAAGGAAGGGGGGGGAAGGGGGGCCAAAAGGAAAAGAA ACCAGCCCCAAGGAAAAAAGGGGCCGGAAGGGGAAAAGGGGG GAAAAGGAAGGAAAAAAGGGGCCAAAACCGGGGCCGGAAAAC CAACCAAGGCCAAGGAAAAGGGGGGGGGGGGAAGGCAAACCC $C C C G G G G G G C C G G C C G G G G C C G G G G A A A A A A C C A A G G A A G G G$ GAA A GCCGGGGGGAAAAGGAAAAGGAAGGGGAAGGGGGGGAT AAAGGGGAGGGAATTAAAACAGAAGCAGAAGGGAGCAGACAA GAACCGGGGGGAACAAGGAGGGAAAGGGGCCAAAACCCAGAC C A A G G G G A A G G A G G G G G G G A G A G A A C C G G A G G A G A A G G A A G A AAGGGAGACAGAACCAAAGAGGAGAGGGGGGGAAGAGAGAAA A GAGGGCGGGAGAAAAAGGGGGGAAAACAAGCCCAAAAAAAA $A C C C C A C G G A G G A G G G G G G A A A A A G G G G A A C G A G A G A A A A G G$ A A GAA A G G G GAA $A \operatorname{AAAAGCCAGCAGGAGAGGGGGAGGGAGGAG}$ G G A A $\mathcal{A} G G G G G A G G G G G G A A A A G G A G G G G A G G G A G A A G A A C A G$ AAGATGGGGAAGGAGAAAAGAAAAAAGAGAAAAAAGGAGGAG G GAAGAACAGGGGAAAGAAGACCGACCGGGGAAAAAGGAAGA A GAG G A G G G A A A G G A A G A A T T G G A A G G C C G G A A G G A A C C G G G A A A G G A A C C G G GAGAGGGACCAAGGAGAAAGCCGGCCAAA GA A G GAGAAAGGGAACCAAAGGGAGGGGGAAGGAAAAGGAAAAG
 GAAGGAAGAGAGAAAGGAAAAAAGGCCGGAAAAGGGGAGCCA $A A G G G G G A G G A G G G G G G G G G G A A G G G G G A G G C C G A A A A G G A A$ GAGGGGGGAAGGGAGAGAAAAGGGGAGGGAAAAGAAACAGAG G G G G A G G T T GAAGCCAGAAGAAAGGGGAGCCGAAAGGGAAAA AAAAGCACAGGAGGACACCGGAAAAAAAAGGAAAAGCBGAGA $A C C G G C C G G G G G A A G G G G G G G A C A G G A G G A A G G C C C C A A G A C$ CCCGGGGGGGAGGGAAGGAAGGAGAGAAAAGGAGGCCBGCCC C G G GACC G G G GCCCC G G G G G G A A A A C GAGGGAAA GAG G GACA $A G G G G A A G G G G G G G A A A G A G G G G A G G G G G G A A G A C C A A G A A G$ GAAAGCCGAGGGGGGCCGGGGAGAGACGGCAGAACBAGAAAA $A C C A G C C A A C C A A C C A G A A A A A A G G C C G A A A G G G G A G G G C G G$ G G GAAA A A GATAAAAGAAGGGAGGGGGGGGGGGAGAAAAGAT T G A G G G G G A A A A G A G G G G G A G G A G A G G A A C A A A A G A GAA A A C C GAA A A A G A A A GAGGACAGCAGAAAGAGAAGGAGGGAGAGAC C A G G G A A G G G GCC G A G G G G A G A G C A G G C C G G A C A G A A G G G G A
 AAAGAGGGGAATTAGACGGCAAAGGGGAACCGGGGGGTTACG

GCAAAAAAAGGGAGGGGAAGGGAAAGAGGAGAAGAAAAAAAA A A GA $A \operatorname{GAA} A A G G G C \subset A G A G A G A A A G A G G G G G G G A A G G G A A C G$ AAACGGGGAAGGCGGAAAGGGCCGGAGGGGGGGAAAAAAAAA T GAGGAGAGAAGGAAGGACGAGGCCCCGGAGGAGAAGAGGGA GAACCAGCCAGGGACAAGGAACCGGGGAGGGAAAGCCGGGGA G G G G A A A A G G G A C C C G G A G A C A A A G G G G A G G G A A G C A A G G A C $C \subset C A A G G G A G G G A C C A G G G G G A G G G A A G G G G C A G G A A G G G G G$ GAAAAGGAAGGAACCGGCCGGGGGGGGAAAAGGAAAAAAAAC C C C G G A A A A A A A A G G G G G G A A A A A A G G A A G GAAAAAA $A$ A G G $G A$ AAAAAAAGGAAACCAGGAGGGAAGAGGAGGGGGAGAGCCGAG GAGGGGGAAGGGGAAAGGGAGGGGCGGAGAGGGCCGGCAAAC A G G A A A A G G A A A A G G A A G G G G A G A G A C G A A GA G G G C C G G G G G $G C \subset A A G G A A G G A A A A G G C C G G A A G A C C A G A G C C G G A A G A A A G$ GAGGAAAGAGAAGAGAACCAAAAAAGAAACCGAGGCCGGCCA AAAGGGGGAGAGAAAAGACAGGGAAGAGAAAGGGGGAAAACA ACAAAGAGGGAAAGGAGCCTAAAGAAGGGGAGAGGGAAAAAAA A G G G G A A G GAAAAAACAGACCGAAAGAGGAAGGAAAAAACAC C C C A A G G G G G G G G A A A CAGAAAGCAAGGGAAACCCGGGAAAG GAAAAGGGGGGGGAAAAAAGGCGAAGGAACCACAAGGAGGGG GAAAAAGAGGAAGGAAAGATTGGAGGGAAAAGGAAGGGAAAG GGGGGAACCAAAACCAAAAAAAAAGCCCCGGCCCAGGAAGAG
 AAAGGAAAAGGAAAAAAAAAAGGAAAAGGGGGGGGAACACAG G G G A A A A A A A A G G G GAAAA A A A A A A A A A A C CAACC G GACAA G G G GAGAACCGGGAAAAAAAGGAGAACGGGGGAA GGAGGACC T TGAGAAAGGAAGGGAGGTAGGAAAAGGGGCAGGCCGGAAGAA G G G G GCC $C$ G $\operatorname{CA} A A A A G G G G G C C G G G A G G G G G G G G G A A G A A G A A$
 A $G G G A A A A A G A G G G G G A A G G G G G G A A A A G A A G G G A G C A A A A$ C G G A A A A C C GAGGGGAAGGGGAGGGAAAAAAAAAAGGGAAAA G G G G A A G A G G GCCAA $\mathcal{A} G C C G G A A A G G A A A G G G G G A G A A A A A A$ $A C C G G A A A A A A G G G G G G A A G G A A G G G G G G G G A A A A A A G G G G G$ GAACCAAGGGGAAGGCCGGGGAAAAGGCCGGAAAAGGCCCCG G GAA $A$ A A $A \operatorname{GAA} A G G G A A G G G A G G A A A G A A A A A G A G G G G G A G G$ G GAGGATAGGGGAGAAGAGCAGACCCAAAGGAGAACACAAGB G G GAGAAAAAACCGGGAAGGGGAGGAGAGCGAGGAGGAAAAG A G GAGAAGAGGAAAACCGGGGAACAGAGAGGAGCCAGGAGAG A A GAA A GACGAAAGAGAAAAAGGAGAGACGAGACCAAAAACC A A G G GCAGAGGGGGGAGGGAGGAGAACCCGGAAAAGGAGAAG
 G G A A A A A A A CAGGAAAAAGGGGGGGGGGAGAAAAAGGGGGAA $A C C A A A A A A A A G A G A C C G A A G G G A A G A G A A A G G C C C C T T G A A$ GAACCGAGGGAAGCAAAAGGAAAAAAGGGGATAAAAAGAAAA A A A A A A A G A A GAGAGGGAAAAAAAAGAGAGGAAAAGGAATTC C C C G G G G A A A A A C C CAGC C G G G G G GAAAC G GAA A A GAA GA G C
 GAGGGAGGAAGGAAGGGGGAAAAGGAGAGAAGGGGACAAA GA G G GAGCCAAAGAAGGAAGGAAGGGGAAAGAGGCATCCAGAAG GAAGGCAAACCACGGAAGGAAGGGGCCGAACAAGGGGGGGGG A G GAAGGCAAGAGGAGACAAAAAGAAGGGAACAGGAGGAAAG GATAACAAAAAAAAGAAGAGGCCGAGAGGACAGGGAGGAAAA A G GAA A A G GCCAA A A G G G GAAGAACCGGAAGAGAGGACAAAAA G G G A A A G A G C C A A G G G G G G G G G G G A C C G G G G A G A A G G G G C A A AGGGGAAGAAAAACCGGAGAAGGGGGGGGAACGCCAAAAGAA $A G G C C G G G G A A G A G A G G G A A G G G G G A G A G A G A A G B A G G G G G G$ G G G G A T TAAAGAACCGGAAGGCCAGAGACGGAAGGGAGAAAA A GAGAAGACAGGAGAAGAAGGCCGGGAGAAACCAAGGAAAAA $A G A A G A G G G A G A A G G G G G A G G C C G G C A A G G A A G A G A G A A A A G$ GAAGGAAAACCAACCGGAGAGAGGGCCAAGGGGGGAAAGGGG

GAAAAAAGGAGGACGAGGAGGGGGGAAAAGGGGAAGGGAGGG A G G G G A A A G G G A A A GAGGGAAAAAGCGGACAAAAGAAAAAAA A G GCACGGGGGATCCAAAAGGAGAAAAGGAGGGGGAAAAGGG G G GAAAAGGAGCCAAAAAAGGGGAAGGAAGCAAGGAAAGGGA GAA A G GAGGAGGGGGCAAAAAAAAGGAAAGGAAAAGGGGGGA A GATAAGACAAGAGGCATTACAGGCAACAAAAGAGAACAGGA A A G G A A C A A T A G GA GAGAAGAGGAAGACCGAGGGAA GAAGGG AGGAGAAGGAAGGAGAGGAAAAAGGGGGGAAGGGGAAAAAAA A G G G G G G G G A A A A A A A G C C A A A A G G A A T A A A G G G A G A G A A G A $C G G A G A A G G A A A G G A G A G G A A G G A A A A A A G G G G C G G A G G A G A$ GAGGAGAAGGAGAGGAGACAGCCGAAGGAAGACGGGCAAGAA G G G A A A G A GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A A G G G G A A A A A G A G G A A A A G G$ G G G G G G G A A G G G G A A A A $\mathcal{A} G A G G G G G C C C C G G A G A A G G G G G G G$ G G G G A G G C A G A C C G G A A A A C C G G G G C C G G A GAA A A G G A G G G A AAAGGGGGAGAGGACACACAAAAAAAAAACCGAAGGGAACCA G GAGGAAAGGAGAGGAAAAGGCCGAAAAGAGCCAAAAGGGGA A G G G G A A A C A G A A A G G GAGGGCGCCAAAAAAGGAAGGCAGAA AAACAGGGGGAGGGGACAGAGGAAAAGGGGGAAGGGG
$A G G G A G G G G G G G A A A C A G G G A A G G G G A G A G A G A G A G G A G A G$ GAGAGGAAGAAGGGAAAGGTTAAGAAGGGGGGGAAAAAAGGB G G G G G GAGGACAACCACGAAAGGGGAGGACCGGGGAGGAGAG G G GAACCAAGGAAAGAAAAGGGAGAAGGGGACCGGAAAAGAA
 GAAGGGAAAAGGAAGGGAAACAAAAAGACAAAAGGGAGGGGG GAACCGAGAAACAAGAGAGAGGAGATAAAAAAGGGGGGGTTG GAGAAAAGGCCAAAAGGAAGGGGAAAAGGAAAAACAGCA GAA GAGGAAACCAAAAAAGAGAGAGGGAGGGGGGGGAGAGAGAAA A GAGGCAAAGAAAAGAAGAACCCGGAGGGAAAAAACAGAAAA A A C A A G G G GAAAA A GAGCCGGCAAGGAAGAGGGAAAGGAGGC C GAGGAAAAAATTAAAAGGAAGGTTAAGGGGCCGGGGGGGGG $G G A A A A G A G G A A G G G G G G G G A G A G A A G G A A A G G G G A A C C G G G$ G G GAAGGAAAAGGAAAAGGGAAGAAAGGAAGCAAGGAAACCA ACCGGAACCAAGGGGGGGGGGCCAAAAAAAAAAGGGGCCGGG
 G G G G G G G G G G G A A A A A A A G G A A G G G G G G A A A A A A A G G G G G A A $G$ GCCGGAAAAGGAAAAAAGGAAGGGGAATTGGGGAAGGGAAAA AAAAAGGGGAAGGCCGGAAAAAAAAAAGGGGAAAAAAAAAAG GAAAAGGAAAAGGAAAAGGAAGGAAAACCGGGGAAAACAGBAA A G GAA $A \operatorname{GGGAAAAAGGAAAAAAAAAAGGAAAAAAGGCCAAGAA}$ A G G G G A A A A A A G G G GAA $A \operatorname{ACCC} C \subset A A T T G G A A G G A A A A G G G G A$ A G GAACCGGAACCGGGGAAGGAAAAGGCCAAAGAAAAAACAC C A A A A A A $\mathcal{A} G G G G G G G A A A G G G G A G G G A A A A A A A A A A A G A A A A$ AAAGGAACCGGGGGGAGGGGGGGAAAGAAAAAAGGGGACAAG
 A A A A G GA $\operatorname{A} G A A G G G G A A A G C C A A G G G G A C A G A G A A C C A G G C A$ A $G \operatorname{G} A A G G G G G G G A A A G G G G G G G G G G C C A G G G G G A A A A G G G A A$ A G G A $\operatorname{A} G A G G G G G G A G A A A A G G A A G G G G G G A A G G G G A A A A G A A$ AGGCCGGAAAGCAGGAAGAGAAAGGAAAGAAAAGGAAAAAAG A GAAAGGGAGACCATACGGAGGGCCAAGGGGAAAAAAAAAAA A GACAGGGGAACCAAAAGGAAAAGGAAAGGGGAGGGAGACAA AAAGAAGGGGGAAGACCAGGAGGCCCCAAGGGGGAAAAAAAG GAAAAAAAAGACCGGAGAAGAGAAAAAGGAAAAAACCGGGGA $A C C A A A A A A G G A G G A G G A G C C G G A G G A A A A G A A C A A G G A G G A$ A G G G GAGAGGGAAAAAAAAGAGGCCAGGAGGGGAGGGGAAAC

 A G GAA A G G GAGAAGGAAAGGAAAAGACGAAGAAAAAAAAGGG GAAAAACAAGAGAAGGAGGAAACCCAAACAAGGGGGGGAGGC AAGGGAAGGAAAAAGAAGGAAAAGGAGGAAGCAGACAGAAAG

AAGGGAACCGGAAGAAGAAGGAGAGCCAAAAACGGGGGGCCG G G G G G A A A G G G A A A A A A G GCCGGGGAAAAAGAGACCCAAAAA A GAA GAGAAAACCAAACAAGGAACCGGCCGGAGAAGGAGG GA G GAGGAACCCCAAGGCAAAGGAAGGGAAGAGGGAGAAGAAGA AA G GAA A A A A A GAAAGAGGGAAGAGGGCCAGGGGGGGCAAAA G G A A G A A G G A A G G G G A G A A A A G G G G A GC C G A A A G A A G A G G G A GAAAGAACCAAAAGGAAGAGGGGAAAGGAGGGAGAGGGAAAC C GAGAAAAAGAAAATAGGGCAACACGAGGGAGAAAAAGGGGG AAAGGAGAAAAAGCGGGACAGGAAAAGAAAACACCGAAGCAG G G GCAAGAACAAGAGAGGGGAAAGGGGAAGAAATTAAAGAAA A A A G G G G G G G G A G A A A A A GAGAGAGGGACAAGGAAAAAAAAA A A A G GAGACGGAGCCGGAACAGAAAAGGGGAGATXCACCCCG G G GCC G A A A G G A G G A GAGAATCCCCGAGGAAAGGGCCTXGGG $G G G A A G G A A A A A A A A A G G A A C G G G G G A A G G G A A A A A A A A A A A$ A G GAAAAGGGGAAGGGGAAAGACGGGGGAACGAAGAGAAAAA A A A A A A A G G GA A GAAAGAAAGAGGACAAGGAAAAA GAACCAA AAAGGAAGGAAGGAAAAAAAAGGAAAGGCAGAAAGGGAGAGG G GAGAGGGAGGGAACGAGACCGGGGGACCGGAAAACCAAACA AAGCCAGGAAAAAGGGAAAACGGGGGGGACCGAAAAAAAGAA GAAAGAGAAGAGGGGACGGAACAAAAAAAGGAACCAAAAGAC C GAGGGGAGTTGGGGGAAGGACCGGAGAGAGAAGGAAAAAAA A G G G GCCGGGAGGCAAGAGAGAAAAAAAAAAGAAAAACACAA $A G G G G A A G G G G G G A A G G G G G A A A G A A A A A G G G G C A A A A A A G C$ CAAGGCCGGGGAACCCAGGGAGAAAAGGGAGAAAGEAAAGAA G GAGAGAGGGGCCAAAAAGAACAAGGGGAGAAAGGAGGAAAG GAGGAAAGAGGAACAGAGAAGCAAAGGCCCAGAGGGGAGACG ACAAAAAAAAGGACCACAAAAAAAAGGGGGGTAAGGACAGAA G GAAAACGGGAAGAAGGAGAGAAGAGGGAAGAGAGGAGAGAA GAGAGGAGAAGAGAGATGAGAACGGAAAGGGGGAAAAABAAG A GAGGGGAAGGAAAAACGGGAGGGGGGACGAAAGGAGAAATA AA G G A A G A G A A A A GA G A A A A A G G G GAACAA GACAA G G C G G G A A G G GAGGGGCCAAAGACAGGAAGGGGAAAGGGGAAGGGAAAA AAAGGGGAAGACAATCAGAGGAGGAGGGGAAGGAAGGAGAAG GAAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGGAAAGAA GAAAAGGAAGGGACAAGGAAAAAAAACGGAAAAGGGGCAAAA AAAGAGGGGAAAAAGGGGGAAAAGGAAAGAGGGAAAGGAAAC AAGCCAAAAAAGGGGAAGAATGGGGGAGGGGAAGGGAGAGAG GAA A A A GAGGAGGGGAACCGGAAAAGAGGCCGGAGGGGAGAA CACATAGAAAGGGAAAATTAAGGAGCAGGGGAAGBACGGGGG G G GCCGGAGAAAGCAAACCGGAAGAGAAACCGGAGGAACABA GAAGAAACCAAGGGGAAGGCCAACCGGCCGGAGGAAGAAAAA G G GACAAAAAGGGAAAAGGAAAAAAAAGGGGCCAAGGAAAAG G G G G GA A A A G G GACCAGAAAAGGAAGGCCAGAAAGGAAGAAG GAAGGAAAAGGAAAGGAGGGGAAGAGGACCCAGAAAGAAAAC CAACACCGGAAAGGGGGAAGAGGAGCCAAGGAAAAAAGAAAG A A ACCAAAAAAGAGAAACCCCAGAGACGGAAAAAAAAGGGGA ACCAAGGGGGGAGGGGGAAAAGGAAAAAGAAAGGGAAAAAAA A G G GA $\operatorname{A} G A G C G G A G A G G A A A A G G A A A G G G A G G A C C G A G A G A A$

 G G GACAAGGAAAACCAGCCGGAAACGAAAGGGGAAGGCAAAG A A A G A A C G G GAGGAGGGGGGGAGGAAAAAAGAAGGGGGACAA A A A G G G A A A G A A G G G G G A A A A C A G G G G G A A G G G G G A G A G G A $G$ GAGAAAAACCCAAACGGAAAGAAGGACGAAATAAAGGGAAAA AAAACGGGGAAGAAACGAAGACACCAGCCAAAAGGAAAGGGG GAAGAGGAGAAAACCACGGCCAAGGAAGGAAGGGGGGCCGGG GGGAACCCCAAGGAAAAAAAAAAAAGGAACCCCGGAAGAAAA A G G A A C C G G A A A A G G G G G GCC G G A A G GAA C C G G G G G G G G A A A $A G G G G G G G G G G G G G G C C A A C C A A G G A A G G G G A A G G G G G G G A A$

A G G G G A A C C C C G GCCGGCCGGAAGGGGAAGGGGAAAAAAGAA ACCGGGGAAGGAACCGGAAAAAACCCCAAGGGGGGCCCAAAA A A A A A G G A A A A G GCCGGAAAAGGGGGGAAGGGGAAAACCAGA A G G G G G G G G G G G G A A G G G G A A A A G G G G G G G G G G G G G G A A A A A A A A A A G GAA $A \operatorname{AGG} \operatorname{A} A A A A G G G G G G G G G G A A G G A A G G A A A A G G A$

 A G GAGAGAGAGGAAAGAAAACGGAAGGAAGGCCGGGGCACCB G G GCCAGGGAAGGGGGGGGAGGGCAAGAACCGGAAGGGGGGG GCCGGAAAAAAAAGGGGAGAAGAACAGAAAAAAAAGGAGAAA G G G G G A A GAGGCCACACAGCCAAAAGGGGAACCAAGGGGTTG G G G A A G G G G A A G G A A A A A A G G C C G G A A A A T TAA A G A A G G G G G G G G G G G G A A G G A A A A C C A A A A G G G G C C G G G G G G A A A A C C A A G G G G G G A A G G A A A A A G G A G GAAA G C C G GAGC CAA A A A GAAA A C ACAAAAACCACCCCAAAAACAACAGGAAGAAAAGAGAAGGGA AAAGGGGACAGAGAACCAGAGGGAAGGGGGGAAAGGGACGAG ACCGAAAGGAACCCCGGAAAGAAAGAAGCAACCAAGGGAAAA GAAAAGGAAGGGAAGCCGGCCAAGGGGAAAAAACAGG
$G G C C G G A C G G A A G G G G C G G A G G G G G C A A C C G G G G A G A A A A G$ G G A A A A G A C A G A A G G C A G G G G G G G A A A G A A G G G A A A A C A G G G GAGACAGAAGAGAAAGGAGGGAAGGAAGGAGGAAGCAAAAAG A A G G G A A A A GAGGCCGGAAAGAAAAAGAAGGGAAAAGCAAAA A G GAGAAGGAGAAAACCAGAGAAGACCAAGGCAAGAGCAGAA CACAGGGAAGGAGAAGGAAAAAAAAGAAGGAGGGGAAGAACB A G G G G G G G G A A G G A A G G A G G G G GA GAAAAAAAAA A GC C GAAAA $A G G A A G A A A G G A G G G A G G G G G A G G G G G A G G G A A G G G G G G A G G$ G GAGGGGAAGGAGGGAGAGAAGGAAGGGAGAGGAAGAAAAGA A A GAGAGGAAAAGAAAAGGAAAGACAGAGCCGGAAGGGAAAA GACAGGGGAAAAAAAGAAAAAAGAGAAAAACCCAGAGAGAGA G G G A A G G A A A A C CA $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAACCCCAAGGGGAGGGGGCCG G G G C A A G G G A G A G G A G G C C A A A A A G A G A C GAA G G A G A G A G G A A G GAAA A A G G GAGAGGAAAGGAAAAGGAACCGGGGAAAGGGC A G GCCAAAAAGGGGGAAAGAGGAAAAACAGGAAAAGGGAAAG AAACCGGGGGGAAGAAAAGCAAAAACCGAGGAGAGCAAGGGA GAGAAAAAAAAAAGGAAACAAAAGGAAGGCCGGGACAAAABA CA $\operatorname{G} \boldsymbol{G} A \mathrm{~A} G \mathrm{~A} C A A A A A A A G G G G G A A G A G G G A A A A G G G G G A A A C C B$ A GAA A A G G GAAGGGGCAGGGGCAGGCCCAAGGACAGGCCGGA $G C C A A A A A A G G G G A A A A G A G A G C A G G A G A G A A G A A A G G G G G G$ $G C C A G G A G G A A C A G A A G G A G G A G G A A G A G G A A A A G A G G A G A C$

 A A A G G G G G G G G A G C A G G G G G G A A A T G G A A A GA A A A G G C C A C G G G GAAGGTTAAAAAATTAGCAGGGAAAGCGAGAAAAAAAAAG GAAGGGGAAGGCCGGAGGGAAGGGGGGACGAAAAACCGACCA $G C A G G A A G G A A G A G G G G A A A A C A A A G G G G A G C A C A C C C A G B A$ ACCGAAAGGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAA A A A G G G A G A G A A A A G G A G G G G G G G G G G C C A A C G A T GAA A G A G G G G GAGGAGAAGGAAGGAACCAGAAAGCCGAGAAAAAAGAAA G G GAA A GCCGGGAGGAGGGAGAAAAGGGGCCGGAAGAAAAAG GAACACCAAGGAGAGAGGGATAAAGAGGAATAGAAAACAAAA AAAAACGAAACGAGGAAAAGGAAACAAAAAGGGAAAGGAGAG $G G A G G A G A G G G C A G A G G C A A C G A A A G G A G A A C G A T A C G A A G A$
 AGGAAAGGGAACCAAAGAGGAAGGAAGGGAAGAGACCTXAAG A A GACAAAAGGGACCAGAAGGAAGGGAGGGAACAACAAGGAG GAACCGGGGGGAAAGAAGGGCGAGAAAGGGAGAGACAAGGGG A G GCCCAAGAACAGAGGAGGGAAAGGAAGCCGGAGGGCAGAA GAGGGAGCAAGGAGGAAAGGAGAAGGGGAGGGGGGGAAAAAG GAGAAGAAGGGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAG

GAAGGAAAACCCAGAGGGGGGGGGGAAAAAAGGGAGGGAAGA AA $A$ A $\operatorname{GAACCGGAGGGAGGGGGAGAGGGGAAGAAGGGAACAAA}$ G G G G GCC G GAGAAGGAGAGACAGGAGAAAGGAGGGAAAAACA $C G G A A G G A A G G A C A A G G A A C C A A C C G G G G A A A A G G A A A A C A A$ $A C C A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G$ A A G G G A A G A A A A GACAGAGCCGGGAAAGGGGACAA G GAC G GA A G G G G G G A A A G A G G A A C G A A A G G G G G G A A A GAC GAA A A G G A G G G GAGGGAAGGAACCGGAAAAGGCCGGAGCAGAAGAAAGGGG G G G G G G G G G G A G A A G G A G G A A G G A A A A A A GAGGGGAA GA G A A G GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAAGA TCACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAG GAGGGAAGGGGGAGAAGCCAGAGAGAAAAGGGAGGAAGAGGA $A G A A G A A A G G G A G A A A A A A G G G G G A G G A C G G C C A G G B A G G G G$ $G G A G G A G A G G G G A T T A C G A A G G G A G G G G G G A G G A G A G G A A A C$ CAAGGAGAAAGGGAAGAAAGGAGGAAGAGCACCAGAGGACAA $C G G A A G G C A A A C C G A A G A A G G G A G A G A G A C G A G A C A A A G A A G$ GACAAACAAGGAACAAGAAGGCCGGGGAGGGCCAAGGGGGGG AAAGAGAGGCCGGGGAGGAAACCGAACGGGGCCAAAGAGAGA A A GAGAAAGGAGAGAGGGGGGGGAGACAGAAAGGGAGAAGAG G G A C A A A G G G A A C A G A G G G G A G G G G G G G G A A G G A A G G G G A A GCCAAAGAGGAAGAGGGAAGGCCAGAAGGGAGAAGGAGAAGA AAA $A \operatorname{GAA} \operatorname{A} G A G A A G A A A C C G G G A A C G G A A A G G A A G G G G G G G G$ $G C C G G A A G G A A G G A A A A T T G G G G G A A A A A A A A A G G A A G G G G G$ GAACC $A \operatorname{A} A A A G G G G A A G G G G G G A A A A G G G G C C G G G G C C G A A A C$ C C C A A A A G G G G A A $\mathcal{A} G G G G G A A G G G G G G G G A A A A G G G A A A A B A$ GAGGAAGGAGGAACCTTCCGGGGAAGGCCGGCCAAGAGAAAA GAGAGAAGGGGAAAGGGGCGGGGGGTTGGAAAAGGAACAAAG
 GAACCAAACAGAGAACCGGGGGGGGAACCAAAAGGAGAGGGG G G G G GCCGAGGGGAAAGAAGGACAACAGGAAGGAAGAGAGAG A G A A A A GCCGGGGGGCCAAAAGGAAAAGGAATTAAAAAAGAA AAA A GAAGGGGGGGGGGGGGGAAAAAACCGGGGAAAAAAGGG GAAGGGGGGAAGGGGAAGGCCGGTTAAGGGGAAAACAGAGAA
 A A G G GACGGCCCAGGAAAAAGCCAAAAGGGGAAAAGGAGGAA G GACAAAGGCCGGGGAAGGGAAGAAGGGAGAGAGBAAAAACG G G G G G G G G A GAA $A$ A A G GAAAAACAGAGAGGGAGAGCAAAGAC $C C C A A G G A G G A G A A G C C A G G G G G A A A G A A G A G G C A G A A A A G A$ C G A A G T A A A G G G G A G G G A C G G A A A GAGAAA A A A G G GA G GAA A A GAGAGGCCGGAAAAGACCAAGGAACCACAAAGCCAGAGAAG GAAAAGGGGAAAAACGGGGAAAAGAGGAAAAAAGGAAAGAGA A G G G G G G G A G G A A A A A GAGAAAAAGGGAACACAAACAAGCAA ACCAAGGGAAAAGAAGGGGGGAAAAGAAAAAGGCCCCGAAAA A GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGGAAAAG G G GAAAA $A \operatorname{ACC} \subset A A A A A G A G G C T T G G A A A A A A A A G A G G G G G G G$

 GAATTCCAACCAAGGGGGGGGGGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGAACCAAAAAAAAAAAAGAAAG G G G A ACCAAAAAAAAAAAAGGAAGGAACAAAGGGGAAGAAAA $A C C A A C C G G C C A A A A A A A A G A G A A A A A G G A A G G G G A A G A A A C$ CAAAAAAGGGGAAGAGGAGCCGGCCAGAGGGGAGACAGAGAA GAGAAAAAGGAGGCCAAGGAAAAAAAAAAGGAAGGAAACGGA GCAAC $C$ AA $\operatorname{CA} A G A A G G G G A A C A G A A A G A A A G G G G G G A A G G G G A$

 A A A A A A A A A G G A A A A A A A A G GAA $A \operatorname{AGAAGGGGGGAAAAGAAAA}$
 GAAGGAACCGGAAGGGGGGAACCAAAAAAAACCGGAAGGGGC

C G G G G G G A A G G G G G G A A G G T T G G G G G G A A G G G G G G G G G G G G G GAA A G G GCCGGAAGGGGAAGGGGGGGGAACCGGAAAAAAGEG G G G G G A A A A G G G C A C A G G G G G A A A G G A G G G A G A G G A A A G A G G A GAAAAAGGAGAGGGGGAGGCAAAAACGGGGCAAGGAGGGGC CAAACGGGAAGGCGGTTAGAAAAGGGGCCAAGGAGGAACAC G
 A A G G A A G A A C C G GC C G A G G GAGAGGCCGAAAAAAAGGAGGCA AAACCGGAAAGGGGAAACACCGAGGAAGGAAGGGGGAAAAAA A A A A A GAAA A GAA $A \operatorname{A} G A A A A G G G G A G C C A G A A A G A G A A A A A C B$ AAAGAAGGGAGCAAAAAGACCAAGGGGAGGGAAAAGAGGGGG GCAA $C$ A A A A G G A A G G G G A A A GAGGGAAAAGAGAG GAA GAAAC CAA $A \operatorname{GAAA} A G G A A G G A A G G A A G G C C A A C C C C A A C C A A G G G G G$ $G C C G A A A A G G G A G G G A A A A G A A G C C G G G A A G G G G G G A A A A A A$ $A C C A A G A G G C C G G C C G G A A A A A A C C A A A A G G C A C A G G G G G G G$ GAAGGAATTGGGGAAAAAACCGGGAGGAAACGGGGGGAAAAA ACCAAAAGGGGAAAAAAGGGGGGAACCGGAACCAAAAAAAAG G G G A A A A G GAG GA G GAAAAAAAACCGAGGAACCAACACCGGC $C G G T A C A G G G A A G A G G A A G G A G G A A G A G G G G A A G A G G$
A A A A GAAGAAAAGAAGGAGGAGAACGGGAAGGGGAGAAAGA GAGGAGAGGCCCCAAAACAAAAGGGGGGGGAGGGGATAAAAA $A C C G G G G G G A A A C A G G G G G C C G G G G G G G A C G A G A A G A A A C A A$ G GAAAAGAAAAAGGGGGGAGGAAAGGAAAGACCGGCAAAGGG GAACCGGAGAAAGGAGAGAAGGACCAGTAGGGAGGAAGAAAA A A A G G G A A G A A G G G G A A G G A A G G G G A GAAAAA A A A A G G G A G G A AAAGGGGGGAAACGAAAAGAAAAGGAAAGAAAGGGCCABAAG G GAGGGAGAGAACACGAAAAAAGGGCAAAAATAGAACACGGA A GAAAAGGGGGGGAACCAAAAAAAAAAAAAAAGAAGGCCABA CAAAGGGGGGAGAAGAACAAAAAAACAAGGAGGAGAAAAAAA
 GAGGAAAAGGGAAGGCAAACCGGACAGACAACCAAGGGAGAG G A G G C A A G G A A A A G G A A G A G G G G G A A G C C G A T T A A G G G A A A A G G GACAAAGAAAAGGGGAAAACCGGGGAGGACAGAGAAGAGG
 G GACACCAATTGACCCCAACCAGGGAGACGAGACAGGAAGAA $G C A A G A C A A A A G G A A A A G G A A G G A A C C A A C C A A A T C C G A A A G$ A A GCCCAAAAACCGGGGGGAAGGGGCCGAAAGGGGCCGAAAA A G G G G A A G GAA A GA A G G G GAACCGGAAGGAAGGCCAAAAAAA GAGCCCCAAGGAAAGGGGAGAGCAAAGAAAAGGAGGGAAGAA GA $A \operatorname{G} A A A A A A G G G G A G G A G G G G A G G A A A A G G G A A A A A A G A A G A$ GACGGAGGGAAAGAGAAAAGGAGAAGGAGAGAAGGGAAAAAA G G G A A G G G G G G A GAA $A \operatorname{AGCCGGGGGACCCCAGGAGGAAGAGAC}$ A G G G G A C A G G A G G A G G A C CAACCAGGGAAAAAAAC GAACAA G GAGGGCAAGGGCAGGGGCCTTAGAGGAAGAAACGAGAAGAGA A GAGGGACCAACAGAAGCCGGAGAGAAAAAAAAGGAAAAAAC CAAACCAGAGAGAAGCAAAAAGAGGGAAAGGGAAGTACGGAA GAAGGGGAAAGAAGAAAGGGGAGAAGGGGGAGAAAGGGAAAA A A C G G A G A A G A A G G GAACCGGAAAAAAAACAGAAC GA GAAA A G G G G G A A A C A A A A G GAGGAAAAAAGCAAAAAAAATAGACGGA GACAAGGAAAGAAAGGATTAAAGAAAAGGAACAGGGAAAAGA A GAGGGACCAAAAAGAAGGCCCCGAGAGAGGAAGGGGGGAAA AA G G A A A A A A A A A A GCAGGACGAGAAAAAAGGGAAAA GAA GA A A G G A A A A G A C G G A G G G G G A A G A A A A A A A A A C C G GAA G G G G G G A A A G A G A G G A A G A A A A G G A G A G G A A A G A GAA $A$ G G A G A G G A G AAGACATAGAGAGGAACGAGGAGGAAGGAGAAAGGGGCCGGA A A A A G A A A A G G G G A A A A G G A G G G G A A A G G CAC G C C A A G G C C A C CAGGAAAAAGCAAGCCAAAGCAGGCCGGAAAAGGAAAAGGA C G G G G G G A A T A A G C A G GAGAGGACCAACCGGCCAGGGGGGGA A G G G G A A A A A A G G A A G G GA G G A G C A G G A G G A G G G A A G G G G G A AACAAGGAAAAGGAAGGCCAAAAAAGGGAGGAAAAAAAAGAA

G GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAAAAC C G G G G G G G A G G A A A GCAAGAAAGAAAGAGGGAGGACCAAAAA G G G A A GAAAAGGAAAGGAACCGGCCAAGGAGAGCCGGGGCCA A G G GAGGCCGGGGAAAAGGAAAAGGAAAAGGAGGAAACCAGG G G GAACAAAGACCGGAGGGAAGGGGGGCCAGAACCGAGAAAA AAAAAACCCGGAAGGAAAACCGGCACCCAACAAGGAGGGGGA A G G A A C C A A G A A A G GAA A G G G G G C C G G C C A A G G G GC C G GAA $A$ GAAGGGGAGGGAGGAGACCATAGGACGAAAAAAAGAGAAGAA G G GAGGGGGCCCCAAAAGGAAAGGGGGCCGGCCGGGGGGBAG A A G G GAAAAGGGGGGGGGAAAGGAAGGCCAAGGGAAAAGAAA G GAGGGAAGGGAGGAGGCCAAGGTTGGGAGGAAAAAAGGGGA AAAAAGGCCAAGGGGAAGGGGGGAGAGAGAAAACCAGAAAGA G G GAA $A \operatorname{GCCA} C G G A G A A A G C A A A A G C G G A G A A G G A A G A G A G G$ GAGAAGGGAAGGAAAAAGGCCACAACCAAGGGGGGAGAAAAA G G GAAAAGGGGCCGGGGAAGGCCCCGGAAAACAACAACAGGA AAAGGCAAGAGGGCAGAAGAGGAACAGAAAGGGGAAGGGGGA GAGGAACGGAAAAAAAAGGGGAAGAAGGAAAGGCAAAAAGAA A G A A A A G A ACCAAGGCCAGGGGAAACAAAAAAAGGAGAAAGA GAGGAAGAGAAAGAGCCAAGAGGAAGGAAAAAAAAGGAAGGG $G G A A G A G G G G A G G G A G G A A G A C A G G C C G G A A G G A A G A A G G G G$ G G GAGGAAAGGGCGAAGAGGGGGGAGGGGAAGGAGGAAACAG A G GAACAAAAGAAAAACAAGGGGCAGAAAGGGGA GAA GAA GA CACGAACAAGGAAAGCCGGTTGGAGGGAGAGGAGAAGAGAGG
 AAGGGGAGAGAAGAAGGAGAGCCCCACGAGGGAGGAAGAAAG GAAGGAAGGGGAAAAGAAAAAGGAGGGAAGAGGCAACGGGGA A G GA A A GCCGGGGGGAGGGAAGGAAAGAAGACAGGAAAAGGA
 GAAACAGAGGGAGGGAAAACCAAGGAGGGCACCAGAAAAGAA
 AA GAACCAAAAGGAGGGAAGAACGACAGACCAAGAGAAAAAA AAAGGAAGGAAAGAAAAAAGGCAGGGGAGGGGGGGGGAGAAC
 A A A A A C A A A A A A A A A A A A GAAGGGGAACAAGGAGGGAA GAAA GAGAAAGAAGAGAAGAGGGCCCCAAAAAAAACCGGGAGAGAG G G GCC GACAAGGGCCAAGGGAAAGGAAAGGAGAAAGGGAAAG A G GA A G GAAAGGGAAAAGGAAGGGAAAAAAAGGAAACAGGGA G G GAAAAGGGAACGGGCGGGAGGAAAAAAAAGGGGAAGAAAG A A G G G A A A A A A G G A A A A G G G G A A A A A A A A A A G G G GAACAC C A A G G A A A A A A G GAA A GCCGGAAGGAAAAAAGGCCA GAGAAAAA AAGGGAAGACAAAAGAAGGAGAAGACCGGAAGGAGAGGAGGG
 G G G G G A A A A G G G G G GAAAAGGAAAAGGGGGGCCGGCCCAAA G GAAGGGGAAGGAAAAGGAAGGAAGGAACCAAAACCGGAAGAG GAAAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGGGGGAAAAAAAAGGAACCAAGGGGAAAAGGGGCCGGC CAAAAGGAAAAAACCAAAAAAGGAAAAGGAAGGAAAACAGBA AAACCCCGGAAGGAAAACCAACCGGGGGGGGAAAACAAAAAA A G GAA A G A A G G C C A A G G G G G G G G G G G G A A G GAAAA A GAAAA $A$ GAAGGAAGGAAAAGGGGGGCCAAGGGGAAGGAAAAGGCCGGG GAAAAGGAGGAGAGGCAACGGGAAGACGAGACCAAAGGGGGA G G G G G G GAAAACCGGCAAAGGGGGGAAAAAAAAGAAAGAAAA AGGAGCACCAAGAGAAGCCATAGAACACCCAAAAAAAAAAAG A GAAAAAGAAAAAGAGGGAAAGGAAAAGGGGAAGAGAAAAAA A A A A A A A G G G G A A A C G GCCAAAAAACGCCCCGGGGAGAAAAG G GAGGGGAGCGGAGGAAGGAGGGACGGCCGGCCCCACGACAA G G G A A A A G G G G G G CAGAGGAATTCCACCAAAGGCCCCAAA GA A G G C C A G C C G G G G G A G G A A C C A A C A G G GACC G G G A A A G G G G C $C G G T T A A G G G G A A G G A A A A G G G A G A A A A G C A G G G G C A G A A A G$

A G G A A A G A A G G A A A G G G G G G G A G G G A G G G G A G G A A G G C C G G G $A \subset A G G A A G A G C G G G G G G G G A C G G G G T T G G C C A G G G G G G A A A G$ ACCTAACAAGAGACAAAGGAAAAAGAGGGGAAAAAAAGGGGA $A T T A A G G G G G G A A G G A A G G C G A G A A G G G A A G A A G G A A A A G A A$ A A GAA A G G G G GAAGGGGCCGGGGAACCGGAAGGGGAAAAGGG G G G A G T A A A A A A G A A TAC CAA G GAGAGAAAGGAAA GAAAAAA A G G T T G G A A A G GAACCGGGCCCAGAAGGGGGGGGGGAAAAAG G G G G G G G G G G G G G G GAA A GAAG GAAAAGAGGAGGGAAAAAAA $A G G G G G A G G G G A A A G A A A G G G C A G A A A G A A G C C G A A G A C A G G$ G G GAAGGCAGAGGGAAGAACCGAGGGGAACCAAACAAAAAAA A G G A A T TAATTGAAAGAAAAGGAGAAAAAGGGGAAAAAATTA

 C G GCCAAAAAAGGCCCAGGAAACGGGGAAGAAGAACCABAAG GAAAAGGGGGAAGGAAAGGGGGGGAAGAGAAAAGAAGAAAAC A A A G GAGGGAAACGAGGAAAGAACCGGAAAAGGAAAAGCGGA A A G G G A C G G G G G G G G G G A A G A G G A A G G G G C A A G A A G A G G A A A A A A G G G GCCAAGGGGAGAGCCACACAAAAAAAAAAGG
GGCAGAGGGGCCAAGGGGAAAAGGGGAACCAACCCCAAGGA A A A G G A A A A A A G G A A A A C C G G G G G G A A C CAA G G G GAAAA G G G G G GAATTGGAAAAGGGGAAAAAAGGGGGGGGAAAAAACAAAA A G GA A A G A GAGGGAGGGAGGGGGAAGAAAGAGGGGAAAAGAA ACCAAGGAAAAGGAAAAAATTGGGGCCAAAAGGCCGACAACB GAACCAAAAAAAAAACCAAAAGGAAGGGGGAGGCAGAAACAG A G G A A A A G A G G A A A A G G A A G G G G G G G G A A C C G A A G T T G G G G A GAAGAGGAAAAGGGGCCAAAGGCAGGGAAAAGAAAGAAAGGG AAAGGAAGGCCAAGGGGGGAAAAAGCCAGAAAAGGAACCCCG G G G G G A A G A C C G GCGGGAGAAAAAAAAAACCAAGGGGAGACA GAGAAAAAGGAAGCACAGAAGGAGGAAAGGAAGGGGGAGGGC C C A A A A A GACCCCGGGGAGGGGGAAGGGAAGGAAA GAA GGGG $G C \subset A A G G A A G A A A C C A A G A A G A G G A A G A A G A A G A G A A G A C A G$ $A C C G G G G A A C C T T G G A A C A A A G A G G G C A A G G A G G A A G A G A A G$ G G G G G A A C C A A G G G A A G A TAAAGGGAGAAAACCC GAAAA G GA GAGGGAGGAACAGGGGGGGAAGAGGAGGGGAGGGAGGGAAAA

 A G GCCAAAAGAGGGAAACGAAGGGGGGAAGGAGAAGGAAAAG GAAGGAAAAGGGGAGAAAGCAGGCAGGAGGCGGGGAAAGAGG GAGGAAGCCAGGGGAGCAAAAAAGAGAAAAAGGAAGGGAAAA AT TAA $A \operatorname{G} A G A A A C A A G G G G G G G G G G A A G A A G A G G G A A C A A A A$ AGGAAAAGGGGCCGAAGAAAAAACCCCCCAAGAAGAAGAAAT TAACATTAGGCAACCAGAGGGGAGAGGAAAGGAGAAGAAAAG A GAGGAAAAGGAAGGAAGGAAGGGGGGGGAAGGGAAAAACAA A G G A A G GAAA $A \operatorname{A} \operatorname{AAAAAGAGGGAAGGGAAAAGAGGGGGGAAAA}$
 GAAGGGGAAGGGGGGCCGAGGAGGGGGAAAGAAAAAACCGGG G G A C A G A G G G G G G G G G G G G G G G G A A G G A GAAACCCCC A A A G A A A GAACCCACAAAGGAGCCAAAAGACCCCAAGGGGGAAAGGA G G GAGTAAGAGGAAGAGCCGAGGAAGAGAGGAAAGGAAAAAA TAAAAGAAAAGGAAAAAGAAGAAAGAGGAAGGGAATTCAGAA G G GAGAAAAGAAAACCCAGAAAGAAAAAACCCCAAACAGGAG A A GAAGGAAAAGGAGAGCAGGCCAGCCGAGAAAAAAAAGAGG G G G G G G GCCAA G G A A C C G G A A A G G A A A A A C CAAAAAACGGGGG G G GAAACGAGACCGGGGGGGGAAGGGGAAAGAGCGTAAACAG A GAGAGGGGGAAAAAGAGGAACCAGGGAGTTGGGGGAAACBC C CAA $\operatorname{C} C A G A A A A G A A C C G A G A A G A G G A G G A A G G G A A G C A A A A$ A A G G G G G A A G GCCAAA A $\mathcal{A} A A G G G G A A G G A G A A A A G G G G A A A A A$ A G GAA $A \operatorname{G}$ GAAAGAAAGAGAAGACAGATAAAAAAAAGAAGGGGG CAGGGGGAACCAAAAAAAAAAGGGAATAAAAAGAGAGAAAAA

A A GCCAGGGGAGGGGAGAAGGGGAGAGGGCAAGAAAACCGGA GACTAGAGAAAAAAAGGAAGGGAGAAAGGAAGGAAGAAAGAC
 A G GAAAAAAAAACGAGGAAAGAGAAGGGGCCCCAGAAGAACA GTAAAAAAAGGAAGGAGAACCGGGAGGAACCAAGGAAAAAGA GAGGAGGGGGAAGGCACAGGGGAGCAAACCAACACGGAACCT A G G G G G A G G A A A A A G A A A G G G G A T T A A A A A G G G G A G G G G A A G G GAGACAAAAGGAACAGGGGAGGAAGACGGGGGGAAGGGAGGA A A A A G G G G GAA $A \operatorname{G} \operatorname{A} A A A A A A C C G G C C A A G A A G G G G G G G G A T X A$ ACCGGAAAACCAGGGGGGGCAGGGGAAGGCCAAAAGAGAAAG A A A GAAAAAATAGAGAGGAAGCCGGAAGGGAAGGGGGAAGAA
 G G G A A G G G GCCGGAAGGAAGAGGGGGGAAGGAACAGAGAAAA ACCGAGGAAAAGGGAGAAGCAAGGAACGAGAGAGAAAAAAAG A G GAGAAGAAAACAAACGGAAGAAGAAGGGGGAAGAAGAGGA G G G G G GACCAAAAGGGGAAGGCCAAGGGACCAGAGGGGAACG A G G G G A A A A A A G G G GAAAA A GAA A G G G A GA GAA G G GAC GAC C $A C C A A A G G G A G A A A G A A G G G A G A A G A A G G G A G A A A G G G A A G G$ $G G G A G A A A G G G A G C C A G A A A A G G A G G G G G G C A A G G G A A A G G C$ C G GCCAG GAGGAGCCGATTAAAACCAAAGGAAGGGAAGAAAA A G G G G G G G G G GCC CAGGAAAAGGGGAAGGAAGGAAAAAAA AA CAAAGGGCCAGGAAGGGAAAAAAGGCCGGAAAAAAAAGAAGG A G G G G GCGAGAACAAGGGGGGCCAAGCAAAGAGAGAGGAAAA G G G A G G G C C G G A A A GAA $A \operatorname{GGGGAGAAAGGACCGAAAGGGAAAA}$ G G GCCAGAAGGGGAAAAGGATGGAGGACCAAGGAGAGGAGAC C G G G GA GACCCAACCGACAAAGGGGAACAGGGGGGGGGAAAA ATACAAACCCCAGAGGAGGAAAAGGCCGGAAAAGGGGAAGAA AAAGAAAGGAACCGGAAAAAAGGAAAAGGGAAACCCCAAGAAA G G G G G G G A A GAGGACAAGAGGGAAAAAAAAAAAACAGCAAAG $A C C G G G G G G G G A A C A C A A A A C G G G G G A A G G A A G G A A G G G C G G$ GAAACAAAAAAGGAAAAGGAAAAAAGGAAAGCAGAGGGGCCG $G C A C C A A A G A A G G A A G G A A G G A A G G A G G G G A C C G A C C G G A A G$ A G GAAAGGAAAGGAACCAGATGAGAGAGGGGAGAAAAGAAAA
 G GACCAAAAAAGGAGAGAGAAAGGAGGAGGAAAAGAGAAAAA A A GACAAGGCCGGGAGAGGAAGGACCCGGAGGGGGGGAAAAG G G GAA A GAACCAAAAAGAAAGGAAGCCAGGGGGCAGAACGGC AAAAGGGCCACAGAGGAGAGAGACGGGGGGAAGAGGAAAGAA GAGAGGAAAAGGGGAGGAAAAGGAGGGAAAAGAGGCCAAAAG
 AAAAACCAGGAGAAAAGAAAAGAGAGGGGGGAAGGAAGACCG GAATTCCGGGGCCAGGGGAAAGGAAGGAAATAGGGGAAGGGG GAAAGGGAGAAAGGGGGAGCCAGAAGAAAGACCGAAGAGAGG A A GAAAGGGAGAGAGGAAGCGGGAAAAGGCCAAGBAAGAAAG GAAAAGGAAAAAACCGGAAGGAAAAGGAAGGGGGGAAAAAAA $A G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G A A$ A G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G G A A G G A
 A G GAAAAGGAAGGCCAAAAGGAAGGAAGGAAAAGAAAAAGGG GCCCCAAGGCCAGAAGGGGGGGGGGAACCGGCCAAAAGGCCG GAAGGAAGGGGAACCGGAAAAAAGGAAAAAAGGAACCAAGEC CCCGGAACCAAAAAAGGAAGGAAAAAAGGAAGGGGAAGGGGA
 GCCGGAGAGGGGACCCCGAGAGGAGAGGAGGAAGACCGGCCG GCCGGATGAAAGAAAACGGGAAAGACAGGAAGGGGCCATAAA
 A G GAA A G A A A GAGGAAAAAAAAAAGAAGAGAGAAGAAACCCC CAAGACCAAAAGAAGAAAAGGAAAAAAAAGGAAACAGA GAAA $A G G G G A A C A A A A A A A A A G G A G A G A C C C C A G G C G A G G G G A G A A$

A G G A A GAGGGGAAACGGAACAAAGGGAAGACAAAGGAAGCCG $A C C G A G A G G G G A G A A G G G G A A G G G G G A G G C A G G A A G A A A G A A$ AAAGGAAAAAAGGAAAAAAAAAAGGAAGAAAGAAGGAAAAAA ACGGAAGCCGGGGGAAAAGAAGACAAGAGGGAGACAGACAGG AA G GAGAGACAAGAAAAAAGGAAGGGAAAGGAAACACGGGGG G GATTAAAGCGCCAAAAAAAACCGGGGGGAAGGGGGGAGABA GAACCAGGGCAAAAAAAAAAGGAGGGGGAGAGAGGAAGGGGC A G G G G G GAAGGAGAGAGACGGAAGGACGAAAAAGGTTGGCCA C C A A A A A C CAA $A \operatorname{A} A A G G G G A A G A A A A G G G A G A A G G A A G G G G A$ $A C C G G G G A A A G A G G G C C A A A G G A A A G G G G G G A G A G G A G A G C G$ G G GAGCCCAGGGAAGGGGAGAACAGAAAAAAAAAAGGAAAAA CAGGGGGGGGAAGGAGGAGGGAAGAGGAAAGGGAAAACAAAA A G G G G G G A G C A A A G A G G A A A G G G A A G G G G G A G G A A G G G A G G A A G G G A A A G G G A G A A G G A G G A G A A G GAGACGGAGAAAAA A A A A G A G G G GAAGAAAACGGGGGAGAGGGGAACCAAAAGGGGGGATG GAGCACCAAAAAAAAAGGGCGCAGAAGAAGGCAAGGAAAGAA
 A A A A A GAGGAAAGGGAGCACCGACAGAAAGGCCGACG
CCGAGGGGAAGAAACCGGGGGGGGGGAAAAGGAAAAAAAAG G G G G G G GCCGGAAGGGGAGGGAGGAAGGAGGAAACAGAAGAA A G GAAGGAGAAGGGAAATTAAAAGGAGAAAGAAGGAAAAGAA ACAGAAAAGGGAAGATTACCCGGAGGGGAACCAGGGAAGAAA AAGGGAACACAAACCAAGGAAAAAAGAGAAGAGAAAGAAAAG $A G G C C G G A A T A A G G A G G G A G G A G A A G G G G A G A G G A A A G A A G A$ G G G G G A A A A C C C A C C GACA $A \operatorname{AGAAAGGGAAGGAAGGAAGAGAA}$ G GAGAGGGGAGGGAGACGAAAGGCCAGGAGGGGGGGGGACAG AAACCGAAGGGGAAGACAAGAGAAGCCGGAAAAAAAGGAGAA CAGTAAAGGAAAAAAAACAAGAGGAAGGAAAACAGGAGAAAC AAACCAAACATAGAGAAAGAAGGAACCAAGGAAGGGAGAAGAA AAGGACAGGGACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAA A A A A A A A G A A G G A A GAAAAAGGGAGAGCCGGAGAAGGGAAAC CAAGGGAGGAGAAAAGAAAAAGAGGAAGAAGAAAAAGAAAAG GAAACGGAAAAAAGAACCCGGAAAAAAAGAAGGGAGGGAAAA CAGACGAAAAGGGGGCCGGAAAAGGAAAAAAAAGGAAAGAGA G G A G A G G G G A A C C G G G G A A G G A A G GAGGGAAAAGGAAAA A A G $A G G A G G G G G A A G G G G G G T A A A C A G G C C A G G A C G G G A T A G G G A$ AAAAAAGAGAGAGGAAAAAAAAAGAGAGAGGCCAAGAAGGGG G G GAGAGGGGGAACCAGGACAGGAAGGAGGAAACAGGCAAAAA A A A A A A A A A A ACCCAGAAAAAAAGAGGAGGGA GAA GGGAAGG G G G A G G G G G G G C A A GAAAACATTAAGGAGGGAGAAACA GA G G A G GCAAAACAAGGGAGGAAACGAAAAGAAGGAAATAAAAGAA A A A A G G A A A G A A A A A A A G A A A G A A GA GAAAAAAAA G G GACAC A GAGGAGGGAGAGAGGAAGCGCAGAGGGGGGGGGGAACCGGA AACGGAAGGAGAGAAGACCACAAGGGGGGAACCAAAAGAAAA
 G G G G G A A A A A A G G G G G G A A G G G G G G A G G A C C C C G G G G G G G G A
 C GAA A A GAAAAAAGGCCCCGGAGAAGGAAAAGGGGGAGAGGA AAAGGAAAAGGGAGAGGAAGGAACCAGCAGGAGGAAGAGAAA GAAGGGGAAAGAAAGAAAAGGGGGAAGCCGGAAAAAGGGGGG G GAGGGGGGAAGGACAAAAAACCCCAAAAAAGGAGAGAAGAA A G G G G G G C C A A A G G GAGGAAAACCCGAGGGGAAGGGGAACAG GAGAAAAGGAAAAGGAGAAAAAAGGAGAAAGAACCGGAGGGC $C A C A A A C G C C C A A G G A A A A G G A A G G A A A A A A G A A G G G A A A G A$ G G GCCAAGAAGCAAGGGGACCACAGAGAACCGGAGGGGAGAA ACCGAACAGGGAAGACAGGGGAAAAAAAAAAAAAGTTCAGAG G G G A A G G A GCC G A A G G GCC G GAGAGCCAGAGGGGAGAAAAA G G G G G G A G A A G G G G G G G G A A G GACA $\mathcal{A} C C G A G G G G G G A A G A A A G$ AAGAGAGAGAAGGGGAGGAGAGAAAAAAGAAGGGAAGGGGAA

A GAAAGGAAAAAGGGGGGAAGAGAAAAGCAGGAGAAGAGGGG GAAAACCGGGGGGAAGGAAAGAGACAAGAAGGGGAGAAAGGA G GACCAGCAGGAAACCGGGAAGGAAGGAGAGCCGAGCGAAGAG GAAAGGGAAAAGAGGGACCGAAGGGAGGGACAAGGGACAAAC CAAAAGACAACGAAAAGGGGGCCACGGAAGGGGGGACAAGGG GAAAA $A$ A A A GAGGAAGGAAAAGGGGAAAAAGGAA G GAAAGGGGG GACAAGGGGAAAGAGAGAAGGAAAGAGGGGGAGAAAACAAAA $G G A A C A G A A A A A G A G G G C A A G C C G G A G C A A A G A A A G G A A G G G$ A A G G A G A A C G G A A G G A G G GACAAAAGGAGGGGGAAGAAA GAA A G GAGGGAAATAGACCCGGACAAGAGGGGGGAAGGGGAGGGG GAAGGAACCAGGGGGAAGGAAGGAAAAGGGGAACAAGAGAGA
 G GA $A \operatorname{GAA} A G A C G A G G G A A A G G G G G G A G A A A G G G G G A A G G G G A$ A G A A G C A A C A A A G G G G G G G G G G G G G G G A CAA A A GA G A G G T T G G G GAACCAAGGAGGAAGCAGAAGAAGGAAGGCACCGGGAAAG G G G GCA C G GAGGAAAAAGGAAACGAGGAAGGGAGGTTAAATG G G G G G G G G A G G G A A G G G G G G G G G G A G G A G T A G A A A A G A A A G G $A C C G G G G G A A C A G A G A A G G A G A G G G G G A G A A G G A A A A A A A A G$ GAAAAAAGGAAGGGGAAAGAGGGAAAAAAGCGAGGAAAACCC ACCAGGAGGGGAAAAGAAACCAGAGAAACGAGGGGAGAAAAA GAGACAAACACGAGAGGAGGGCCCCCCGAGGGGCACAAACCA A G GAGAACCGGAGGAGAAGAGACCCGGAAAAAAAGGAGGCCC C G A A A A A A G GACCAGAGAAGAAAAGGGGGGAGAACAGA GAAC A A GAGAAGGAAGGACGGCCAAGGCCGAAAGGGGAAAGAAAAG $G G G A C A A G G G G G G A A A A G G A A A A G G A G G A G G G A G A A A A A G G G$ GAAAGGAAAGGAGCCCCAAACAAAAAAGAAGAGGAACGGAGG G G G G G G GA $\operatorname{l}$ A A $C A A G G A G G G G G G G G A G A G G A A A A G G A A A A A A A$ A A G G G A A G GCCAA G G G G A A G GAAAAGGCCACAAGGACGAGAA A G G A C G G G A A A GAGGAAAGCAAAGGAAGAAAAGAGGAGGCCA AAAGGGGCCAACCACCAAAAAAAAAAAACGGGAAAACGAAGA C G G G G C A G G A T A G G G A G G G G G A A G G A A A G A A A G G A A A C C G A G AAAAACCCCCCGGGGAGGGGGGGCCAAAACCAAGGAAAAGGG G G GAAAAGGGGATGGGGGGAAAAAAAAAACCAAAACCABAAG A GAA A G G G GAGAGAAGGAAAACCAAGGAAGACCAAGAAAGGG GACCCACAGAAGAAAAAAAACAAAAAAAAGCAGAA GAGGGGA A G G G G G A C A C C G G G G G G A G A G A G A C T A A G A G A G G A G G G G C C G A G G G G G G A A A A G G G G G G G A G G G G G G G G C C G G C A A $G$ G G G G G G G GAAGGGGAAGGGGGGAAAAAGGAAGCCCCAGGAGGAGGAGAA G G G A A G GCGAAAAACAGCAGGGAGAGGGACCAAGAGAAGAAG GAAGGAAGACAGGGGAAAGCCGAAAAGGAGAAAACGAAAAAG GAATTAGGAAGCCGGGGTAAAGGCAGGAAAGGGAAAAGACAA A A G A A A A C C G A G A C C A GAG GAAAACGAAAGGAAG GAAA G G G G AA G G GAAGAAGAGGAGGAGGGAGGGAAAAAAGGTTAGGGAGG A G GCGGGGGAAAAGGAAGGCAGCGAGAAGGAACGAGGAAAGC C C C A A C C G GAGAAAAAAGGCAGGAAGGATCCGACCCCGAAGC GAACCCCGGGAGGGACCGGAAAAGGAAGGAAAGGAAGGAGBA G G G A C A G A G A G G G G G G G G G A G G G G A A G CAC C C A A A A G G A A A G G
 $A C C G G A A G G G G G G A G A A G G A A G G G A G G A A G A G G C C G G G G A G G$ A GAGAGGAAGGGAGAAGACGGAGAGGGAGGAGAACACGAABA $A C C A G C C A G A A A G G A G G G A C A G A C A C A A A G G G G A A G G A A A C B$ GAAAGGGAAGGACGGAAAGAAAAGGCCAAGAGGCCAAAGGGA
 G G GAAA A A G GAGAGGGGGGAGAGGGGGGAGGAAGGGAAAGAA GAAACGAGGGGAGAAGGAAGGAAAAAAAAGGAGGGGAGAGAA G G G G GCCCAAAACGACAAGAAAGGGAAGAGAGGGGGGGAGGG A A G G GCC G A G GAGCCGACCCCAACCAGCCGGCCAAAAAAG GA G G A A G G G A A G G A A G G A C GA GAAC G GA GAGAGACAATTGGGAC CAGGGGGGACCGGGAAGGGAAGGCCGGCCACCCCAGGGGCCC

C C C G G C CAAAAGGCCGGAAGGGGGGAAAAAAGGGGAAAGGGA A G G GAGGGGAAGAAGGGGAAACCGAAAGGGGGGGAAAGGGGA GAAGGGGCAAAGAAGAGGGGGGAAGAAAGAGAAAAAGGAAGA GAGCAGGAAGGCCCACCAAGGGGTAAAGGAAAAAAGGAAGGG GAAGGGAGGCCAGACAAGGGGAGGGGGGGCAGAGGAGGAAAA A G GAACCAGAAAAGGAATAGGAGGGGGGGAAGGAGAAAGCAG GAAAAAAGAGGAAAAAAGAAGAAAAGGAGAGTTGGGGAACAA A GAAGCCAAAAAAACGAAAGGAAGAAAAAGGACAGAAACAGA C GAGACAAAAAGGGGAAGAGGAAACAGAAACGGAAGGGACGT TAGAGAAAGCAGGAAACGGAGGGGGAAAAGGAAAAGGAAGGA A G G G G G G G GAAAAAAAAATAAAAAAGGCCAGGGAGGACCAGA ACCAAAAAGTTAAAAAGAAGGAAAAAAGGAAGACCGGAGGGG A GAGGGGAAGAAAGGGAAAAGAGAAGGAGGGAGGGGGAAAAC A G G G G C C A A A A G G A A A A G G G G G GAAGGTTGGGGGGGAAGAGG G G G GACCCCAGACAGGAAGGAAGGAGAGGAGAGCCGGAGAAA GAAAAGGAACAAGCCGAAAAAGGAGGGGAACGGGAGACCCAG G G GAGGAGGCAGAAGGGGAGAGGAGAGGGAAAAGGAGAGAAG A A GAA A G G G G G G G G GAGCC G G A G G G G G A A A GCAGGGA
GGAACGACAGAAGGAAAGGGAAGGGGGGAGAAAAGGGAAAG GAAAGCCAGGGGGGGACGGGACAAGGGAGCCAGGAGAAAAGG GAAAACAGATTGAGAGAGAGGGGGGGGAAAGACAAAAGAGGA AAGCCGAAAAAGAAACCAAATGGAACCGAAGAGAAGGGGGGG GAAAGAAGGAGAAAGACCAGAAAGAAAGGGGGGGGAAAAAAA A G G G G G G A GAC GAAAAGAGGGAGAAAGGGAAGGAGGGGGACA AA G GCAAGGGGAGACGGAAGACCGAAAAGAGGAGGAAGGGAG GAGGGGGACGAAACCGAGAAACCAAAAAACAACGGAAAGAAA GGGCAAATTGGAGAGGAAACCAGGAAGAAACAAGGGGAAGGG GCCAAGGAAGGGGGAGAAAGGAAGGAAGGAGAAAGGACCGGA A G GAAGAAGCACCGACCAGAAAAGAGAAGGAGAGAGGAGGGA A A A G GAAAGGGGGGACCAAGGCAGGGGACGAAAAGGGAAAAA GAAGAAAAGGAAAGGGGAAGGGGGGAGAAAAAGGAGGGAAAG GGGTAGGAGAAGGAAGGGGGAGAGAGGGACGAAGGGGGGGGG G GAGGGAGAGGGAGGAAGGGGGGAAAAAGAAAGAAGAAGAAG GCCAAGGGAGGCAAGGGAAAAGAGAGGAGGCAAGGGGGGGGG AA A G G A A C A A A G GAGGAGGAAGGCAAGCCAACAGGAGAAGGG GAGCAGGAGAACAGGAAGGCCAAGGGAAAAAGAAGAAGGAAA AGGGGGACACCGGAAGGAAGGGGAAGGCCGGAAAAGGGGCCA A G G G G G G G G G GAAGGGGAAGGAAAAAAAACCCCAAGGAAGGG G G G T TAA $\operatorname{l}$ G A A A A A A G G C C G GAAAAGGAAAAAAAAGGGGGGA AAAGGAAGGAAAAAAGAGAAAGAGGAACCGAGGGAACCCAGC
 A G GAACCAGAGGAGGGAGGAAGGGGGAGGGACCGGGGAAGAA AAGAAAGGAGGAAAAAAAAAGGGAAGGAGAAAAAAAAAAGAG A G GAAAAGCGGGCCAGAAGGAAGGAAGAAGAGAAGAGAGAGG G G G GAA $\operatorname{GAA}$ A GAGGAGAAAGGAGGGCCAAGGAAAAGACAACA A G A A A G G A A C C G G A A G G T TAACCGGAAGGGGGGAAAAGGCCA A G GACGGAAAAGGGGCCAAAGGAAGGGAGAAGAGAGAAGGGA GAGGAGGCCAAGAGGAGAGAAAGGGAGAACCGGGGAAAGGAG GAGTAGAAAGGGGGGAAGGGGACGAAAAAGAAAAGAAAAACA T GCAGGACCCCACGGGGGGAAGGAAGGGGAAAAGGGGAGCCC CAGGGAAGGAAGGAAGGGGAAAAGAAAGAACAAGAAAAAAAG GCAACGGCAAGGGGGAGAAGGAAAAGAAGGAGGAAGGGGAAT AGGGGAACAGGAGGAAAAAGCCGACAGAAAACCAAGGCCAGG AAACCGGAAGAAAAGGGGGAGGGAAGGAAAGGGAAGGAAGGA AAAAAGGGACCCCGGCCGGTTGAAGGAGAGGCCAAGAAAGCG A GAGGCAGAAGCCGGGGTAGGAAGGGGAAAAAAAGAGAGGGG GAAAAGGAGCCAAACGGACGAGGAAAGGGGGGGAAGGAAGGC C GAGGGAGGACTTACAGACAAGGAGAGAGAAGGAACGAGAGG GAGCAGAGGCCAAAGAAGACCGGGGGGAGCAGGGAAGAGGAA

GAAAGGAAAAAAGACGAGAAGGGAGGAAAAACCGAAACAGGC CAAGGAAGAACAAAAAGAGAAAAACCCAAAGGGGGAAGAAAA A G G G GACGGAAGGGGAAGAGGAAAGAGGAAACCGGGAAAGAA AAAAGAGAAAAAGGGAACAAGGGAGCCGAAGGAAAGAAGACC GCCAGGGAGCCAGAAGGGACCGAAAGGAAGGCCAAAAAAGAA ACAAAAAGAAAGGAAAAGAGGAACCGGGGGGAAAAAGAGAAC A G G G G A G G A GACC G CAA $\mathcal{A} G G A C C A A A A G A A A A A G A A C G G G G G$ GAAGGGGAAAAGGCCAAGGGGAAAAAGACAAAAAAGGGAAAG GAAGGGGAAAAGGGGGGCGGAAACAAATTGCGGAAAAGAGGA A GGCCAAAAAAGGAAGGAAAGAGAGCCGGGGAAGAAGCAAAA A G GCCGGGGCCGGAGAACAAAGAAAGGGGAAGGAATTGGGAA $A C C A A A T G G A A A A G G A A G G G G A A G A G G G G A A G G C A A G A B A A G$ GAAGGAAGGAAAACCGGGGAAAAGGGAGAAGAAGGGAACA GA CAAGAGAGGCAAGGGGAGAGGAAAAGGAGCCAAGGGGCAAAA AAAAAGGAGGGGGAGCCAAAAAACACCAGAAGGAAAAGAAAG GAAAAGGGGAAGGGGAGGGGAGACACCAAAGAAGGAAGAACAA C GAGAGAGAAAGGGGGAGACCAGGAAAAAGGAAGGAACAACB A GAGAAAGGAAGGAGAAGAAAACAAGGCGGAAAGGAAAAGAA A A A C C C C A A C C C C C C G GCCAACCGGGGGGGGAACCCCAAGAA ACCAAAAGGAACCGGGGAAAAAAAAGGAAGGGGAAGGCAAAAA A A ACCAAAAAAAAAAAAAAAAAAGGGGGGCCGGGGCCCCACA A G G G G A A A A G G G G G GAAAAAAGGGGAAGGTTCCGGGGCCCAA A G G G G G G G G G G A A A A A A G G G GAAAAAGGAAAAGGAA G G A G GAA $\mathcal{A}$
 G G G A A A A A A G G A A C CAAGGAAGGGGGGCCAAAACCGAAAAAG G A A A A A A A A A A A A A A A A A A G GAACCCCAAGGAAAA G GAAAAA A G G A A G G G G G G G G A A A A G G G G G G C C C C C C G G C C G G C C G G A A G GAA A G G G A A G G A A G GAA $A \operatorname{A} \boldsymbol{A} A A G G G G G G A A G G G G G G G G A A A A A$ A G G G G A A G G G GCAACCAGGAAAACCAAGGGGAAA GAAAAAGG GAGAGGGACTTGGAAGGCCGGAAGAAAAAAAACGGAGGAGAG A A A A A A A G GAAAA A A A A A G GAGAAAAGCCAAAGGAAA GAAAC CAAGGAGAAAAGGAGGGAAAACCAGACAGAGAGAAAAAAAAC $C \subset C G G G G A G G G G G G G G G A A A G A A A A G G C C A C G G G G C C A G A A A$ A GACCAACCAGGAGAAAAGGGAAGGAAAAAAAACCAAAAAAG GAGAAGGGAGACGAGAGGGCAGAGGGGGGGGCCAAAAACGAG GAAGGAAAAGGCAGAAGGAGGGACATAAAGGGGGGACAGGAA G GAGGGATAGAGGGGGGAACCAGGGAAAGGGAAAAAAGGGAG GGGCCGAAAAGCCGGAGAAGAAGGGAAAAAGAAAACAAAAGA GAAACGGAGAGGAAAGGAAGAAAAAAAAACACAAGAAAAA GA A A A A G A A A GACAA GACCAGAATAGGCCAGAAAGACAAAGAAA A GCGGCCAGAAGGAAAGGGGGGGAAAAGGAGAGCCAAGAAGC C G A A A A C A A G A A A C CAA $A \operatorname{GGGGAAAGCAAGGAAGCCCCGAGAA}$ G G GAAGGGAGGGGAAGGAAACAGAAAGATGAGGACGGAAGGC
 G GACC G G G A A C G G T T T T G GTTCCGGAAGGTACCCAAAGAAAA A G GCCGAGAGGAAGAAGCCGAAAGAGGAGACCCAAGGAAGAG G G G G GCAGGAACCGGGGGGGAAGAGAGAACCGGGGAAAAAAA G GAAAGGCCAACCGGGAAGCAGGGACCCAAAGGAACCGGGGA AAAAGGAAGGGAAGGAAAACACAGAAGAGGAGAGAGGAAGGG G G G G A A A A A G G G G G A CAC CACAGGAAACCAAACAC GAAAG GA G G GAGGCGGGGAGCCGGAAACACAGAGAGACGGCAGACCGGA
 A A A G GCCAAAACCGGGGGGGGAAGGGGGGCCAAGAGGCAAAG G G G G A A A A A G G A A A A A A A A A A A A G GAA $A$ G GAAAAAA A GAA $A$ A G G G G G G T T G GAACAGGGGAAAAGGAGGGCCAGCCAAAAGAA GA ACAAAAAAAATAGACAAAAAGGAGGGAAAGGGGAAAGGGCCG GAAAAGGAAAGAAAAAACCAGTAGGAAGAGGGGGGABAGAGAG G G G G G G G G G A G G A G G G G G A A G G A A A G G G A GAGGGGG G G A A A A AAGAAGCAACCAAAGGAGGGAGGAGAAGGAAAGGGAGGACGG
 G G A A A GACCCCAGAAGGGGGGGGAGAGAGAGGACCAGGAAAA $G G A A A A A G G G G G G A A A G A G G G G G A A G G A G G G G G A A C C C B G G A$ G G GAAAAAAGGGGAACCGGCCGGAAGGAAGGAAAGAAGGGGG GAAAAGGAAAAGGGGGGAGGAACGGAAGGAAGGAAGAAAAGA G G G A G A A A A GAGGGAAAAAAAAAAAGGAGGGAAAAAAAAA GAG G G G G G A C G A A A A G G GAA $A$ A $A$ GAAAGGGGGACCGGAAAGCAAAG GGGAAAAAAAACCGGAAGGGGGGGGCCGAAACCGGAAAAAAG A G G G G A G A A G G G A A A $\mathcal{A} G G G G G A A A A G G A A G G G G G A A A A A G A C$ C T TAGGAAAGGAAGAGGAAAGGGAAAGGGAGAGGGAACAAAA G G GAAGGACCCGACCAAGGCCGGGGGGCAAGAAGGGGACAGG $A C A G A G A G A A A G G A G A A C C A G G A A G G G G G G G G A G G A A A G A A G$ GAAGAACAGGAACAGAAGGAAAAAAAAAAAGAGCAAGGGGGG A G G G GCCAAAAAAAAAAAAGGAAGGAAAGGAGGAGCCGAAGG A GAGAGAAAAAAAGGGAGGAAAGAAGGCCGGGGAAGACAAAG G G G GAACAAGGGGGGCCGGGAACGAGGGAGGGAGGGGGGGGA A GAGAGAGAGGGGGGGAGGGGAGGGGGAAAGGGAAAAAAAAC CAGGGGAAAAAGGGGAAGGAAAAGGAACCCCACGAAG
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 AAGAAGCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGAAAAC CAACCGGCCAAGGGGGGAAAAGGCCGAAGAAGGAAGAC G GAC C C C G G G G C C G A G G A G G G G G G GCCGGAAGGAGGAAGA GAAAA $A$ G G A A G G G A G A G A G A C A A G G A GAGGGGGGGAAGGGGAC G G T T A AAAGGAAAACAAGGGCCGGAGCCGGGGGGAAAGAAAGCAAAG G G G G A A GACGGGAGGAAGGGGAAGACCCCAGAAAAGGCAAAG $G C C A A C C G G G A G A A G G G G G G G G G G G G G G G G A A G G G G G A G C A C$ CAGAGAAGAAGGGACAAAGAAACCCAAGGAAAGGAAGGGGGC $A C C G G A A A G G G A G G A A G A G A G A A A G G G A A C A G G C C A G G A A A G$ GCCGGGGAAGGAGAGAAACGGGGAAGGGGCCAGGGGAAAGAA A GAGAAAAAAAAAAGGAGGGGAAGGGGAGGGAGAAGAAAAAA $A G G G A G G C C C C C C G G A G A C A A A G G G G G A A A A A A A G G G G A A G G$

G G GAC GAAAACAAAGAAAGAGCCGGGAGGAGGGAGGAAAAAG G G G G A A G C C A A GAGAGATAGGGGAAAAAAGGGGAAAAAAGAA G G G G A A A G G GAGGAAAGAAAAAGGGGGGAAGAGGGCAAAAAA CAGGAAGCAGAGGGGAGGGGGCCGGGGGGGGAAGGGGAAGAA A GAGGGGAAGACAGGAGAAAGAGAAGGAAGAGGGGCAAAAGA
 C C C C G A G A A G GAGCCAACCGGGAGGGGAAATGGGAGAAGGGA AGAGGGAGACCGGGGCCGAGGAGAAAACCAACAGGGGGAGGA AAAGGAACCAGGGAGACGGAAAAGGAACCAGAAGGAGAAAAA AGCAGGGCCGAAGCGGGGGGAGAGACCAGGGAAGGAAAAGBA A A A G G G G G G G G A A A A C C G G A GCC G G G G G G T TAA A A A A A A G G G
 $G C C A A G G C C A A G G G G A G G A G A G A C A A G G A A A A A G G A A G A A A C$ C G A A C C C G G C C G G G G A A G A A G G G G GCCAC C C G A A G G A G G A A G G G G G G G G A A A GCAA A G G G GAGCC GAGGAAAGACAA G G CACGGG G G G A A G G G G G GAGGGCCGGGAAGAACCAAAGCCAGAAGGCCG G G G A A C A G G G G G G G G G G G G A A G G G G A G A GC CA G A A G G C C A A G G G G GAAAACGAGGAAAACCCCAGGGAGAACCGAAAAGAAAGG $G G G A A A A A A G G A A G G C C A A A A G G G G A A G A A A G A A G C C A A A G G$ A G G G A G G A A A G G G G A G G A A G G A C TAGGAGCXAAGGAAGAAAG GAAGGAAAAAAAAGAAAAAAAGGCCGGAGGAAAGAAAAGGGG G GAGGGAAAAGAAAAGGGGAAGGAGGAGAGGGAGGAGAAAAA A G G G G A G G G G G GACCAAGAGGCAGGAAGGAAAACCAAGGGGG $G C C G G G G A A G G G G G G A A G A A G C A G G A A G G A G A A A A A G G A A A G$
 AAA A GAAAAGGCCGGAAAGAAAAAGAGAGAGAGGGAAGAAGG G GAA A A GCAAGAGAGAAGGGGCCCCCCGGGGGAGGGGGAAAG G G G G G G G G G G A A A A A C A A A A A G G G G G A G A A GAA $A$ G A A G A G G A AAAGGAAAGGGAGCAGAGGGGAAACAAAACCAAAAAAGAAGA C GAAAGAGAGGAAAAGGAGGGAAGGAAAGGGGGAAAAGAAAC C G G A A A A A A G G G G A A G G G A G A A A A A A GAA $A$ G GAGAG GACAAA A C GAGAGGAGGGCAAGAGGAAGAGAAAAGGGGGAAAGAAACCG G G GAAGGGGCCGGGGAAAAAGGAGAGGCCGAAAAAGGAAAAA A G G G G A A G G G G A A G G A A A A A A A A A A G GAGGGGGAACCAAA GA A A A G G A A G GCCGGAAGAGAAGGAGAAAAAGAGGACAA GACCG $G G G G A A G A A A G A G A C G G A A G G A G A A A A A A A A A G A G G A A A C C B$ G G G GAACAGGAAAAAAAAAAAAAGAAGCAGAAAAAAAGGGGA A A A A A A A A A A A GGAAACGGAGCCAAGGAAAAAACCGGAAG GA GCCGGGGAAACGGAGAGGGAGGAACGGGGGGAACCAACGGGG GAAACGGAGAAGGGGGGGAAGACAAGACCGGCAGGAGAGGAG GAAAGAGGGAGAAGGAAGGGGAAAGAAGGCCCCAGGGGAAAC CAAGGAAGGAAAGGGGAAGCCCAAAAGGGGAGAAAAACAAAG A A A A A GAGGGGTTGGCGGAAGAAAAAAGGAGAAAGCAGGCCC CAACAGGGGGGAACAAAGGAGAGGACAGAGGCCGGGGCAAAA GA $A$ A $A G A A G G G A G A A A G G A G G A A A A G G A G A G A A A A A G G A A A A$
 A G G A A G GCCAGCAGAAGCCGGGGAAAAGGGACAAAACGGGGG
 A G GAAAAAAGGAAAACCGGAAAAGGAAGGGGAAAACCAAGGG G G G G G A A A A G G G G C C G G G G A A A A G G G A A A A G G G G G A G A C G A G GAACCGGGGGGGGACAGCAGAGAGGGACAACAGGAACACAGG AACAAAGGAGGAGGAAGATAGGAAGAGGGGAGAGGAAAAGAG
 GAGGAAAGGAGAGGAAGGAGAAGGGAAGGAAAGAAGAAAGGG GAAACAACCAACCGGGGGAAAGGGGCCAAATGGGGAAAGAAA GAAGAGAAGGGAGGACCGGGAAGGGAAGGGGGGGGGAAGGGC CAAAAAGCCAAGGAAGAAGAAGAAAGGAAAAGAAGAAGAGGC A A A G G A A A A A A A A G G A A A A A A A ACCCCCACCCAAACAAAA G G A GAGGAAAGGCAAGGGGAAGGGACGGAAGAGGTAACAGAAGGC

CAAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGGAAAGGAAA A G G G GCCCCAGGGAAGGAAAAAACAGGCCAAAGAGAAAGGGG G G G G GCCCCGGCCAGAAGGAAAAAAAGGAAGGAAAAGACAGG GAAAGGAAGAAAAGGAAAAAAGGGGGGCAGGAAAGAAAAAC G A A A A A A ACCGGAGGGGGGGAAAAGGCCGGAAGGGAAGAGAGG A A A G GCCAGGGAGCAAAGGGGGGAAGAGAAGGACCAAA GA GA G GAAAGGGAGGCAGGGAAAGAAAGGAAAGCCCCGAAGCACCB G G G A A A A G GAA $A \operatorname{G}$ GAAAAGGAGAAGGAACACCAGGGGGGGGGA G G G A A A G A A G G G G G A A A $\mathcal{A} G G G A A A A G G G G A G G G G G A A G G G G G$ G G GAAGGGGAAGGCCAGGGAAAGGGAGAGAACCGAGAAAGAG
 G G G G G A A C C A C A GAGAGAGAAGAAGAAAAGAGGAA GAA G GAA GACGGAAGGAGAGGACAGGGGCCAAAAAGCCCCAAACAACCA A A A A A G G G GAA A A A A A A A G G G G G G A A GAAAAAGGAAAAGAAAC A GACCACAGCCAAGACCAAAAAAAGACAGGAGAAGAGATAGA G GAGGAAAAAAGGGGGGGGAAAAGGGGGGAAGGAGAAGBCAA A G G G A A GAA A G G GCAAAGGGGAAACAAAAAACCAAGGAGAAA A A GAGCCGGGGGAAGAAGGCCAAGGCCGGGGAAAAAA
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 GAAAACCAAAAGAAAGAGAGGGGGGAAGGGGGGGGAAGGGGG GAAA A $A \operatorname{A} G \mathrm{G}$ GAAGGGGGGAGAGGGGGAAAAAAAAAGACAAAGA A A G G A A A G A A G G G G G G G G A A G G G A A A A G G G GAA $A$ G C A A A G $G A$ A G A A A G A A CA $\operatorname{A} G \mathrm{G}$ A GAGGAGAAAAGGCAGAAAAACCAAGAAAA G G G G A C C G G G GCC G G G G A G G A G A G G A A A A G G G A A A G G A G A G G GAAAATTAAGGAAAAAATTAGGGAAGGGGGGAACA GAGAGAG GATCCGGAAGGAGGGCCGGAACCGGAGAACAGAGGGAAACCG GAAGGGAGGAAGGAAAGAAAAAGCCGGAAGGAAGAGAAGCCG G GACGCAGGAAAAAAGAGGGAGGGAGGAGGAGAAAGAAATTG GAAAGCCAAAGAGAGGGCCAGAAAAAAAAGAATAGAGAGGGG $A G G C C G G G G G C G G G A G G A G A A A A G G G G G G A G A G C C A A G A A B A$ ACCGGGGGGAAACGGGGAGAGAGAGGGAGAAAAGGGGGACAA TGGGACCAAAAACAAAAAAGGAAAAGAGGACCCGGAGAGAAA AACAAAGGAAGGGAAGGCCAGCAAGGGAACCGGCCAAGGCCG GCCCCAGAGGGGAAGGGAAAACCGAAGGAAGGGGGAAGAACB G GAGACAGAGGGGAAAAACAAGCAACCAAAAAAGAAGCAAAG GGACGAGAAAAGGCCAAAAAGGGTAAGACCCCAAAAGGAAAC
 GAAGGGGGGAGGACCAACCAAAATTGAAGAGAAGAAAAAACC A A GAA A A A GAGACACAGGGCCAAAAGGAAGGGGGGAAAAAAC CAGCCGGGGGGAAAGGAGGAAAACCGGGGGGAGGGGGBAAAA A A A A A A A A A G A G G A G G G A A A A A A C CAA A G G G G G A A A A A A G G A AAAGGAACCGGGGAAAAAAGGGGAAAAGGAAAAAAAAAAAAC CAAAAAAAATTCAGGGAAAAAAAGGGGAAGGGGAAAATAGGG G GAAAGGGGAAAAAGGGAAGACCAACCAAGCAAACCCGAGGG GAAAAGGGGCCTTGAAGGGCCGGAAAAACCAAGAGAGAGAAC C G A A A G A G A G A A C G A A A A A G G A A A A GAGGGACACGAAG G G G A A GAAAAGCCAAGGAAACAAAACCCCGAGGGACAAGGGGAAAA A G G G G G A A GAA $A \operatorname{GGGAAAGGAACCGAAAAAACGAAGAGAGGGG}$ $A C C G G G G A G C A G G G G A A A A A G A A A A G G G A G A A C A A C C A A A G G$ G G G A G A G C C G G A G A G G G C C G GAGGAGGAAGGAA GAA GAACC G GAATAACGGACGAAGAGAGGAGGACGGGGAAAAGGAACAAAG G G G G G A A G A G G A G A A A GAA A A GAGGAAGGCCCCAAAGGAGAA A G G G G G G T A C C A A A A A A A A A G A A A A GGCCAGACAAAAG G G A A AAAGACAGAAGAAGGGACACCGGAGAGAAAGAGGGAAAAGAG

A G G G G A G C C G G A G G G A A A G A G G G A A G G G G A A A A A CAAA A A G G
 A A A A A G GAGACAAGGAGAAGAGGGAGAACAAGGGGGAAAAGA A A G G G GAGGGAGGGAAAGGAAGGAGAAGGAAACAAAAAAGGG G G GCAACGGAGCCGGGAGAAAAAGAGAAAACGAACGAGAAAG GAGAAGAAGGAGGGGGGCCGGAAGACAGGAAGAAAAAGAAAA A A A A A C C A A G G A T G GAGGAAAGCGGGGGAGGAAAAGAAAAAG G G G GAGAAGACGAAAGGAGAGCACCGGCCGGGGAAAGAAAGA ACAGGAAGGAAAAAGCCGGGGGGCCAAAGAAAGACAAGGGGG $C A G G G A G G G A G G A A A G G A A G A A G A G C C G A G A G G G A C C G G G G A$ ACAGGAGAGGGAAGGGCGGGGAAGGAACCACAAAACAGAGGG GAAGGGAAGCAGGAGAAAGGCAGGGGGGAGAGAAGAGGAAAG GAGAAAGAAAAAGAAAAAGACCCGGGGCAAAGGCCAAGAAAA AAAGGCCGGTTGGACAGAAGACCCCAACCGGGAGGAACCGGA G G GAGAAGAAGGGCCGGGGGAGGGGGAAAAGGGAAAAAAGGG G G GAAA A $A \operatorname{AGG} \operatorname{A} A \mathrm{~A} G \mathrm{GA} A G G C C G G A A G G A A A A G G G G A A A A C A A$ A G G G GCA $\mathrm{C} A \mathrm{~A} G \mathrm{G}$ GAAAAAGGAAGGGACAGGGAAAGGAAAAGAA GAAA A G G G GAA $A \operatorname{AGGGAA} A A A A G G G G G A A A A G A A G G A G G A A A A$ $G G A G A C A G G A A A G G A A G A C G C G G G G A A G G C C A A A A A A G A G G G$ GAAGAGAAAGAGAGGCCAAAGCCGGGAGGAAGGCCAAAGCAC C G GA $\operatorname{l}$ A $\operatorname{A} A A G G A A G G G G G G G G A A C C A A A A G G G G G G A G A A G G G$ G G G GAGGAAGGCCAAAAAACAAAGAGGAAAGAGCAGAAC GAA CAAAAGGGGAAAAGGGGAAGGTAGACCGGGGGGGACCAAGGG GCAGGGAGAGAAACACAGGAGAGACGCACGGAAAA GAAAGGA GAAAAAGAGGGGGGAGGGGAAAGGGGAAAAAAGCAGAAAGAA G G G GAA A A A A CAA $A \subset G G A A G G A A C C G G A A A A A A G G G G G G A C G$ ACAGGAAAAAAGGGAAGAGGGAGAGCCAGAAGGGGGGACBAC C G G GAACAAGAGGGGAGGGGGAGAACACCGCAAAAGAAAACG G G GA $\operatorname{G} C A G G G A A A A A G G A A G G A A A A G G G G A A C C A A A A G G G G A$ A G GAA $A \operatorname{GACA} A \subset C \subset C A G G G G G G G G G G G A A G G G G A A G G G A A A C$ CAAAGAGAGAACCAAGGGAGAAAAAAAGAGAGAGAGGGAGAA A GAGAGAAAAAACAGCACAGGGGCAAGGGGGAAAAGGCAAAC C G GAAAAGGAAAAAAAAAAAAAAGAGAAGAAACAAG GAAAAC G G A G G A A G G G G C C G A A $\mathcal{A} G G G G G G G G A G A G G G G G G G A A G A A A A$ AAACACCGGCCAAGAGGCAGAAAGCGGATAAAAGAGGAAGAA G GAA $A$ A $A C C G A G G A G A A A G A G A A G G A A A A A G G G G G G A A A A G C$ C G GAAACAGCCAAGGCCGAGGAAAGAAAAAGAACCAGGGGAG GAGAGGGCAGGAACCCCGGGGCCAAGGGGGGGGCCAGAAAGA G G G A A A A A A A C G G A A G GCC G GAGGGAGAAACAGGGAAAAAAA A A A A A A A G GAA A GCAACGGAGAGGGCCCCGGAAGGAAAGGAA A GAGGAGGAGGGGAAGGAGAAAAAGAAGGGAAGAGACCAAAA A GAA $A \operatorname{GGGGCCA} A C A A A A G G A A A G A A A G A G A G G A A G G G G G G G A$ GAAAAAGCAGGGGAGAAAAGAAAGGAGGGAACC GAAAGAGAC CACAAGGGGAAGGACGGAAAGAAGACGAACCAGAAGGCCGGG GAAGAAAAAACAAAAAAAAAGGGCCGGGGGGCCACCACAABAA A A A G G A GAACCGGGGAAGGGGAAAAGGAAGGAACCAGGAABAA AAAAAAAGGGGGGAAAAAAGGCCCCGGAAAAAGCCAAAAAAA C GAAAT TAAAAACGGGGAAAGAAAGGAAGGCCGGGGAATAC AAAGGGGGGCAAGAGAAACGGTACCAAAAGGGAGAGAGAAGA G G G G G A G G A A A GAGGCCAGAGACCCAGGAGGCAGAAAAGAGA
 GAGACAGGGAAAGAAGGGAGAGGGAGGAGAGGAGCGAGGGGA A A G G GCAGGAAAAAACCGGAAGGAGGAAAAGATGGGGGAABA AGACAGGGAAGAAGGGGAGCCAAGGGGGGCCCCCAGAAAAAA A GAAATACCAAAAACAAAAGGGGGGAAGGCCAGAGGGAACAG GAACCCCCCAGGAGAGAACAGAAGAAAGGAAGGGGAAAAAAA GCGAAGGACAACCAGAAGGGAAGAAAAGAAAAAAAGACAA GA $A G G G A G G G A G A A G G G C C G G G G A A A A C C G G G A A G G G A G G A A G A$ C GAAAGGAAAGGGGGAAGGAAAAAAGGAAGGAACCGAAAAAA

AACGAGGGGAAAAAGAAAGCCGGAAGAAGCCAGACAGGGGGG GAA A G G G A G A A C C G G G G G G G G G G G G G G A A A A A A A A T T A A C C G GAAGGAAGGAAGGCCGGAAGGGGGGGGAAAAGGGAAAGACCA $A C A G A G G A G A G G G G G A A G G A G G G A C A A C A G A G G G G A G C C G G A$ A A GAGCAGGAGAAGGACGGCAGGGAAGGAACAAGGAAAAAAG A A GCCGGGGGGCCAGAGAGAAAAGAGGGAAAGAAGGGGAAGA ACCGGAAGAAGAACAGGGGCAGGAGAAACGAGGGAAAGGGGA AA $A$ A A $A A G G G G G G A G A G G A G A A A G G A G A A C A G G A A G G G A G A A$ GAA A A GA $A$ A $A \operatorname{GAGGGGGGGAGGAAAAAAGGAGAGGGAGAGCCA}$ AAAAAGGAACCCCGGAACCGGAAAAGGAAGGAAAAAAGGTTA GAAGGAAGGGGCCAAGGGGCCAGAAAAGGAAAAGGAAAGAGG G GAAAAACCCCGGAGGGAGAAAACCCAAAAGGAGGGAAGAGA G GAAGGGAAGGAACCAAAAAAAAACCCGAGGGACCGGCCGGA A A A G G A G G A $\mathcal{A} A G G A A C A G G G G G G G G G G A A A A A A A A G G A A G G G$ G G G G G G G G GCC G G A A A A G G G G G G A A G G A A C C G G G G A A G G A $G A$ GACGGGGGGGGGGAAGGGGGGAGAAAAAAGAAAGGAGAAAAA A A G G G A A A T G G G G G A A G GAA $A \operatorname{GGGC} C A A A A A A A A A A A G G G A G G$ G G A A A G G G G G G G G A A G G A A G GCCAAGGGGCCAAGGCC
$A G C C A A A G G G A A G G C C A A G A A A G G A A G G G A A A A C A A G A C C A$ A GCAACCAAAGGGGGAAAAACGGGGAGTAAAAAAAAAGAAAC $C G G A A A G G A G A C C G G G G A A C C A A A G A A C A G G A A A A G A C C A A G$ GACAAGGAAGGCCGACCAAAGGAAGGGAAAAAAAAGAAAAAA A G G A A A A A A C A GAGGGGAAAGGAAAGGGGCCCAGGAAAAGAG A GAGAAAAAGGAACCGGGAAAGGCCGGAACCAAGGAGAAGAA A G G G G A A A G A A G G A A G G A A A A A G GAGAAA A A A CA GAAAA A A G GAAAGACAAGAAAAGGAGAGAAGAAAAAAGGGGGGAAGAAAA AAAGGAAGGGGAACGAGAAAAGGGAGAAAAAAGAGGAGACBA A G G G G G G G G G G A A G G A A G G G GCCGAGAAGAAAACCAAAAA GA A A A A A A A A GAGAGGGGGAACCGAGGAGAAAAGAGGGACAAAG GAAAAAAGGGGGGGGAGGAGAAGGAGAGACACCGAAACAAGA C C A A A A A A A GAGGAGGGAGACGAAGAAGGGGGGGGAAAGAGA AGGAGGGAGAAGGGACCCCAGGGAAAAAGGGAAGGGGGGCCA A G G G G A A A A G G G G G GAACC $A \operatorname{CA} A G G G G G A G A A G G C C G G A A G A G$ A A A A A A A G G A G G A G C A G G G C A G G G A G A C A G G G G A A G G G G G G A AA $A G A G A C C A A A A A A G G A G A G C G T A G A A G G G C A G A A G A G A A A$ A G A G G A A G G G G G G A A A A A A G G A A G GAAAAACAAACC G G G G G G G GAAAAGGGGAAGGAAGGGGAAAAAAGGGGAAAACCAAGEGGA AAAGGGGAAAAGGGGGACCAAGGGGGGAAGGGGAGAGAAAGA GAGAAAAAGCCAAGAGGAGAGACGGGGGGGGGGGGAAAAGAC CACACAGGGAGAAAGAAGAGGCAGGGGGGCCGGGGAGAXAAA $A G G A G G G A G G G A G G A G A A A G G G G C A A A G G G G G G A A G A A G A G G$
 GGGGACCCCCAAAGAAGGACAGGACAAGAGGGGAAAAGGGGA $A C C G G G G G G A A A A C C G G A A A A C C G G G G C C A A A A A A G G G G T T G$ G G G G G A G A C G G G GCCACGGAAGAGGACAAGAGAGACCAGGGG GAGAAGAAAAGGAGGGAGGAAAAGGAAACAAAAGAAAAAGEG G G G G G G GC C G A GAGGAAAGGGAGAGGAACGGGAAAAAGGGGG GAGGGAGCCAAAGGAGGGGAAGGGGGACCAAGGGGGAAAAAA G G GAACCCCAGGGAAGGAAGGGGAAGAGAACGACCAGAAAAG A A A G G A A A A G GCCCC G G G G A A G G G G G GCC G G C C A A A A G G A G C CAACCGGGAGGGAAACCGGGGCCGAGAGACCGGAAAACAGBA AACGGGGGAGAAGAGAAAGAGAAAGCAAAGGAAGGAGGAGGA $A G G A A A A G G A A G G G G A A T T A A G G G G G G A A A A A A A A A G A A G A G$ G G GAGGAGAGGACAAAAAAGAAGAACCAACCAAAAAGGAGGG $G C C G G G G G A C A G G G G G G G G A A G A G G G G A A G G A A A A G A A G A A A$ G GACAGGAGAGACAGAGAAAGGGTTAACCGGAACCGAGGGGA GA $A$ A $A G G G A G G G G G G G A G G G G A A G G A A C A G G G A G A G A A G A A A$ A G G G G G G G G A A A G A A C C A A A A G G G C C A A G G GCCA A A CAAA G C CAAGGACGGCCAAAACCGGGGCACAGGAGGAGGGGAAGGGGG

GACATGGAAGGAAGACCAGAAGGGGACAAGGAAAGCCAAAAG GAACCGGGGAAAAAAGAAGAACAGGAAAGGAAGGGAGCAGBA G GACAAGAGAAGAGGACAGAGGGAAAAGGAAGGAAAAAAAAA AGGAACCCCCCGGGAACACAAGGAAAAGGAGAGGGGGAAGAG AACAAGGAGAAAAAGCCGGAAACGGGAGGAAAGCGAGAAGAA GAA A G G G G G G G G A A G G G C C A G A A G G G G A A A A $\mathcal{A} A G G G G G A G A G$ G G G G A G G G G A A G G A C G A G G A A G G A G A A G G G G G G A GCC CAA $\mathcal{A} C$ CCCGGGAAGAGAACAAGAGAAGAGGAGGAGGAAAACCGAAAA A A A A GCAAAAAAAGGCCGGGAAGGGGGAAAGAAGAAAAAAAA GAGGGAAGGAGAAGCGAAGAGAGGGAAAAGGAGGGGGGGGGG G G GCCAGAAGGAAAAGAAAAGGGAAGGAAAAAGGGGAAAGAA
 $G G G A A A A A A G G A A A A G G G G A A A G C C A G G G A A G G A A A C G G G G A$ ACCGGAGAACCGGGGAAGGGGCCAAGGAAAAGGGGAAAAAAA A G G G G G G G GCC C G G A GAGAAGGAGAAGGAGAGGGGAGAAAAA A A GAGAAAAAAGAGGGAGGGGAAAACCAAAAGGAGAAGAAAC A G GAGGGAGAAACAAGGCCGGCAGGAAGAAGCCGGCCAGGAA GAGGGGGCCGGAGAAGGAGAAGGAAAAAGGGGGAAGAAAAAA $A A A G G G G A G G G G G A G C A A G G G A G A G G G A A A A G G G G G G G A G A G$ G G G GACAGACACAAGGAAGGGAAGGAAGGAGACGAAGGAAAA GAGAAAACCGGGGAAAAGGAAGGCCGGAAGGAAGGAAGGAAA AAAAAGGAAGGAAGGAAGGAAAAAAAACCAAAAAAAAAAGGG G G GAA $A \operatorname{GGG} \operatorname{GA} A G G A A A A A C A A A C A A A A A A G G A A G G C C A A C A A$ A G A A A G G A A G G A G A GCCAAAGAACCGGGGGGGGA GAA GAGGG GAAA $A$ A $A \operatorname{C} C G G A A A A A G A A G G C A C C A A A A G G A A G G G G G G G G G$ A G G G G A A A GCAAAGGCCCCGGGAACGGGACAAAGGTAAAAAA G G G G G A A A ACCGGAAGGCCGGCCAGAAAAAAGAAAAAAAAGA C GAA $A \operatorname{Gg} \operatorname{A} A A A A A A A A A A A A G C C A A A A G G G G A A G G G G G G G G A$ A G G A A G G C C G G A A G G G G G G G G G G G G A A G G G G A A G G A A C C G G G G G G G G G G G G G G A A A A A A A A G G G G G G C C G G G G G G G G C C C C C C C CAAGGCCAACCAAAAGGCCCCCCAAGGAAGGGGAAAAAAGGG GCCAACCGGCCGGAAGGAAGGCCGGGGGGAAGGCCGGGGGGA ATAGGAAGGGAACGGACAAAAGAGACAGAAGAAAAAAGAAGA GAAAAAAAACCGGGGCCAGGAAAAAAAGGGGAGAGAGGAAGA AAAGGAAGGAAGAAAGGAAGGCCGAGGAGGGAAAAAGAAAGG AA $A$ A $\operatorname{G} A A G A C A A G G G G G G A A G A A G G G G A A G A A C G A C A A C A A A$ AACGGGGAAAAGGAAAAGGGGGGAGGGAAAAAAGGAAAAAGA G G G G G T TACAGCAAGGAAAAACCACGAGGGGAGAGAGAACAC CAGAAGAACGACCAAGGGGAAAAAGATACAAAGGAAGCAAAA $A C C A A A A A A G G A G G G C C G G A A A A A A C A G G G G A G G G G G G G G A A$ AGACCAGCCGGAAGGGGCCAAGGAAGGCCAAGGAAAAGAAAG G G G G A GCGGCCAAGGGGAAGGAAGGGGGGAACCGBAAGAAAG $A G G G G A A A G G G A G A A G G G A A A G G G G G G A A G G C C G G A A G G G G G$ A G G G A G G G A G G A G A GATGGCCAGAGAGAAGAAAGBAGAGCAA $A G G C A G G A A G A G A A G G G G A C A G G C C G G G A A A A A G G A G G G G A A$ CA $A \operatorname{GA} A A G G A A G G G G G A A G A A G G G G A A A A T T G G G G G A C A G A A$ A G G GAAAAAAAGGAACCAAGAAAGGAAGGAGCAAACCGGGGAA CAGAGGGAACCGAAAGGGGAAGACCAAGGCACAAAGGCCAAA ATTGAGGGGAATTGACCGGCCAAAAGGGGAGAGGGAGAAAAA
 A G GCCGGCGACGGGGGACAAAGGCAGCAGAAGGGGGAGAAAC C G GAA A GA $A \operatorname{GA} \operatorname{A} G A A G G G A G A A A G A C G G A A A G A G A G G A A G G A A$ A G A A A G G G GAACC G GAAAAAAGGCGGGAACAGGGAA GAA GGGG G GAAAGGGGAAGGGAGGAAAGGGAAGGGGAAGGAACAAAGAA A A A A A A A A A A A A A A A A A G G G GAA $A \operatorname{AGACAGAAGGAAGGAAAGG}$ GAGAGGGGGAGGACAAAAAGGAGAGAGGGCCAGCCGGAACAG G GAGGACCCCCCCGGGGGGAGGGGGCCAAGACAGGGGGAAGA G G G A G G A G G G G A G G G A A A A C C C A C A G G G GA G G G G G A A CA A A C $C G A A A A A C C G G A A A A G G G G C C G G A G G A A G A A A A G G A A G A A A A$

AAGGGGACCGGAAGGAGGAAGAAGGAAAGCCAAAAGGCCGGG
 G G G G GAAAAGGGAAAAGAAACACGAGGAAGAGAAGAAAAAGAG GAAACGGGACCAACAGGGAACCCAAGAAAGAGGAAAAAAAAG GAAAGAAAAGGAAAAGGGGAAAGAAGGAAGAGGAAAACAAAA A G GCCAAAAGGGGAAAGAAAAAGGGAGAAAAAGCCAAAACCA ACCGGCACCAAGAAGGAGGGAGGAGAGCCAGAGGAGGAGGGC C G GAAACGGGGAGAGAAAAGGAAGGAAGGAAACAGCCGAAAG
 GCAAGAGGGGGCCGGAAAAGGGGAAGGAGGAACGGGGAAAGC
 GCAGACAAAAGAGGGAGGGAAAAAGAAAAAAGGCCAGAAAAG G G G A A G G G GAAAA A G GAGAAAACCGGCCAGCCAAAACGCCGGC CA $\operatorname{A} G A A A A A A G G G G G A A G G G A G G G G A G A G A G A G G A A A G G G G G$ GAAAAGAGGAAGGCCAAGGAAGGGGGGAAAAGGAAAGGAGAA GAGGAGAAGAAAGGAGGCCAAGGGGAACCGGGGGGAAGAAAG
 CAAAGAGAGGGAAGGGGACAACAGACCAGCCGGGGGG
AAAGAGGAAACCGAAAAAAAGGGAGGGGACAAACAGGGGGA A AACCAAGGGGAAGGCCAACAGGGAGAGAAAGGGAAAGAAGG AAGGAAGCCGGAAGGGAAGAGAGAGGGGGAAAAGAAGAAGGG A A A G G G G G G A A G G A G A A A G G A G G G G G G G A A A G G G G G A A A G G C AAAAAGGAGCCACCCGGGGCAAGGGGGAGACAAGAAGAAAAG GAAGACCAGAGGAACGAGGGGGGGGAACCAAAAGGAAAAAAG GAAGGGGAAAACCGGGGAAAAAAGGAAAAAAAAGGGGGAAAA $A C C A A A A G G G G A A G G A A G G A A A A A A G G G G G A A A G G T T G G G G A$ GAAGGGAAGAGCACCGGAAGGGGGGAAAAAAAAAAGGAACAA A G G GACCAAGCAAAAAGGGAGGGACAGGACCCCGGAAGAAAG $G \subset A G G G G G A A A A A G A A G A T A A G G G G G G A A A G A A G A A G G G G G T$ TGGGGAAACGGGGGGCAAAGGGGAAAAAAGGAAGGGGGGGGG $G C C G G A A A A A A G G A A G G G G A A A A A A G G A A C C C C A A G G G G G G A$ GAGCCAGGGGGAGAACCGGAAGGGGAAAGGAAGGAAAGGAGA AACGGAAAAGAAGACGGACAAGCAGGGAAAAGGAGGGAAAAG GAAGGGGGACCGGAGGGGAAGAAAAGGGGGGAAGAAAGACAA
 A G GAACCAGCAGGCCGAGGGGAGGGCAGAACAGGBAAAAGGG G G GA A A A G GAAAAGAGAAAGGGGGAGACCAAGGAGGAAAAAA CAAGGGGGGCCAAAAGGGGAAAAGGGGAAAAGGGGAAGAAAA G G GCCAAAAGGAAGGGGAAGGGGGGGGAAAAGGGGGGGAAAA A A A A A A A A A $\mathcal{A} G G G G G A A G G A A A A A A G G G G A A G G G G G G G B C A A$ AAAGGAAGGGGAAAAAAGGAAGGGGAAAGAGAGAGAAAAGAG GAGAAGGGGAGAGAGAAAAGAGGAAGAAGACAAAGCCAAGGG GAGAAGGCAGGAACCGGAAAAGGAAAGGGCCGGCAGGGGGGG GAGAGACAGCCGGAGCAGGGAGGAGGGAAAAGAGGCCAAATC C G G GA $\operatorname{G}$ GAGAAAAAAAAGGAAGAGATTAAGAGGGGGGGAGAC
 AAAAACAGAGGACAGGGGACCAGAAAAAGGGACAAAGGGGGA GAGGAAGGAAGAAAAAGGGGAGGGAAAGGAGGAGGGAACACA $A C C C C A G A A G G G G G G A A A A A A C C A A A A G A A G A A A A A A G G G G A$ G GAAAAAAAGGGGGGGAGGAGAGAAGGCCAGGAGGGGGAGAA ACAGGGACCAAAGCAAGAAAGGGAGCACCGAAGGGACCACCG AACAAAAGGAAGACACAGAGGAGGGAAAAAAAGAAAGAAACG $G C \subset A G G A G G A T G A A A G G A A G G G G C C G C G G A G G A A G A G A A A G A$ G GAA A G GAA A G G G G G GAAAAAGGAAGGGGGGAACCAAGGGGG GAGAAGGCCAAGGGAAAAAAAAAAGGGAGACGGGAGGAAACA $G C \subset A A A A G G G A A C C C A G A A C A A C A A T T A A G G C C G G A A G A A A G$ G G G A A G G G A G G A G G G G GCCAGAAGAGGCCAACCCCAAGGGGG G G GGGAAAAAAAAGGCCAAAAAAAAGGAAGAGAGAAGAAGAG AGAGAGACCGACCAAGGGAGGGGCAAGGGAAGAAAGAAAGAA

A A GAA A G GAGGGAAGGGGAGCAGAAGGGAAAGACAGGGAAAG ACCAAGGGACCGAAGCAGACCGGAAAAGACACGCGGGAAAAG G GAGAAAGAAGACAAAAGAGGAAGGAACCGGGGAAGGAAAAG
 G G G GAAAAACAAGAGGGAAGGAAGGCAGAAAAAAGAGAAGGG G A A A C A A A A A A A A G GAA $A \operatorname{GGA} G A G A G G A C G G A A G A A A G G G G C$ AA GAAAGGAAGCCCAACACAAAAGGAGGGGAAAGAGGGGAGG $G C A C A G G A A G G G G G G A A A G A G G G A A G A A G A A G G C C G G A G G A A$ G G G A A G G A G A A A G G A A A A A $\mathcal{A} G G G G G G G G G G G A G A T G A G A C C A$ $C G G A C G A G A A G C C G A A A A G G G G G A A A A G G G A A A A A G G G A G G A$ A G G G G A G G G A A A G G G A A A G A G C G G G G G A A A A G GA G A C G G C C G GAGAGAGACGAGGACGGAACCGGAAGGGACAAAGGAGAAGAA GAGAAGGAGCCGAAAAGAGGGCAGGAGAAAGACGBACBCGGG G G G G G G G G G A G G G A A A A A $A G G A A A G G A A G G A G C G B A A G A G A G A$ A G G G A A C G GAAAA $A \operatorname{A} A A A A G G A T X A A A A A A A G G G G G G G G G G G G$ GAAGGGAGGAAACGAGGAGGAAGAGAAGGAGAAAATTACGAG G G GAACCAAAAAAGGGAAAAGAGACGAAACCGAGGACACGBA GAAAGGAAGGGAAGGAGACAGGGAGGGGAGAGAAAACAAACAA A G G G G G G G GAAGGGGAGAGAAGAAAAAAAAGACCAGAAAAAG G G G A A A G A A G G G G G G TAC C C CAAAGGGAAGGGGACCCACAC G AGGAGAAGGGAGGCCAACAAAGGGGATGGGGAAGGAGGACAC CAGCCAAAAAAAACCCCGGGGGGGGGGGAGGGAGGGGAGGBA GAGCCCCGGGACAAAAGAGGGAACCCAGGAGGAGAAGCCGAG GAGGGGCGGAGGAAAACGACCGGCCAAGGGGGCGAAGACGGG GAGAGGGCGAGAAAAGGGAAAGGAGCAAGGGAAACAAGACAA G G GA GA GCAAACAGGAAGAGGAAAAGGTTCCGGGGCCCCGGA A G G G G A A A A G G G G G GACAAAA A A A A A GAAAGGCCAAG GAAGGG A A A G G G G G GAGGGAGGAAAGAAAAACAAGGGAAA GAAAAAAAC GACGGAAAGGGGGGGAGAAGGGGAGGGAAAGAAAAAAGAAAG A A A A A A G A GAAAAAAAAAGGGCCCCAAGGGGAAAAAAAGAA C G G G G G G G A A A A A G G A GAGAAAAGGCC GAAAGGAA G GA G G G A AAAACGGGGAACCGGAGCCGAAAGGAAAGCAGGCAACAAAGG GCAACAGAAGGGGAGAGAGAAAAGGGGGACGACAAAGAAAAA
 AAAGGAGGGACACGGCAAAAAAGAAAAGAAGAAGAAAAGGAG AAAGGGGAAAAGGCAGGAAAAGACCAAAAGGCCAAGAAAGAA GACCCACGGGGAGGGGGGGAAAACCAAGGAGAACCAAGACCG A G G GAAAA A GAAGGACCGAGAGGGAAACGAGAAGGGAAAACA
 C G GAA $A \operatorname{GA} A A A G A A A A G G A C C G G G A G G G A G G A A G G C C A A G G C$ CACAGAACAGGGAAAGGGACAAAAACCGGGGCCAAGAAAAGBG A G GAA A G G GAA A G G GAGCAAC GAAGGGGAGAAAGGGGAAA G C $C G G G G A A A A C C A G A G C C G G A G C C G G G C A A G G G G G G G G A G A A A$ A G GAGAAAAAAGGGAAAAACCGGAGGGAGGGAGAAAAAGGGG
 GAAAAGGGGAAGGGGCAGGGGAAAAGGAAAGAGGGGAAAGAA A G G G A G G A G A G A G A G G G A G A G G A A A A A A A G GCC G G G G A A G A A AA GAA $A$ AA $A G G A A A A A A A G A C A G G G A A A A C A A G A A A G A A G G C$ CAAAA $A \operatorname{A} A A \operatorname{A} G A A G G A A G G G G G A A A A A A A A A A A A A G G G G G G A$ G G G A A G G A A C C G G G G A A G A A G G G A A G GAA $A$ G GAA A $\mathcal{A} G A G G G G G$ GACAAAAGGAGGGACGGGGACAAAAGGCAAGAAGAAGAGACG GAAGGGGAAAAGGGGAACCAGGAGGAAGGGGGGGGAAAAGGG $G C C G A A G A G G G A G A A A A G G G G A A A A G G G G G G G A A A A A A G G E C$ $C G G C C A A G G G G A A A G A A G G G A A A C C G G C G G A G G G G G C A A A A G$ G GAA A A G G G T TA $A$ A $A C C G A C A A C G G G G C A C A G G G G A A G G A G A$ GAGGAGACCGGGGGAGGGGAACCGAAGAAAGCAGAAGAAAAA G G G A A A A A GAGAGGAGAAAGGAAAAGGAAGGTAAGGGGGGGG A A A A A A G C C G G G G G G A G A G G G G A G G G G G A C C G G G G G G C A G $G$ A TACAAGGAGCCGAGGCCGGGGAAGGGGAAGGAGAAAAGAGGG

G GAAGGAAAAGAAGGCCAAGGAAAAGGGGGGTTAAAAAAAAG
 AGACCAGAAAAAAAAAGGGGAGGGAAAAGACGGCAAAGAAAG G GAAAAAGAAAGGGGGGGGGGGGGAAAGAAGGGAGGGGAAGA GAACGGGAAGGAAAATTCAAGGGGGAACCGCAGGAGACAGAG A G G A G G G A G G G G G G G A A A A GAAA A C CAA G GAA A GAA G G A A G G C CAA $A \operatorname{GA} A A C G G C A G G G A G G A G G G G G G G G G A A G A G G A G G G G G A$ AGGAAGGAAGACCCCGGGGAAGGGAGGCAAAGGAACCAAAAA A G G A A G G C C G G GAA $A C C A G A G C C A A G A A A G A A G A G C A A A A A G$ AAGAAGGGGAAGGGGGGAGGAGGAGGCAGGGAAAAAACAAGC A A A A GA A G G G G G G G A A A A A G GAA A GAAAGGGAAACCCAAAAA G G G G GCCAGGGAGAAAAAGGGGGAGGGAAAGCCGGAAAAAGC A G G G G G G A G G A GAA $\operatorname{T} A A A G G A G A G G G A T G G C C G A A A G A G A G A C$ A GAGGGGAAAAAAAAAAAACCAACAGGAAAAGGGGGAAAGGG
 A G G A G GAGAGGGAGAACGGGGGGGGAGAGCAGAAAAGGGGAG
 A G GAACCACAAAGCCGGGGGGGCCAAGAAAAACAGCG
CAACGGAAAAAAAGGGGGAGACAGGGGAAAACAAAAGGGGC CA $A$ A $A \operatorname{A} A C C A G A A G G G A G G A G G G A G G A G G A A G G A A G G C A G A A$ GAACCGAGGAAGGAGGGAGAGAGGGAGAGGAGGAAGAAAAGA A A A GAACGAGAAAAGGGGGGGAAGGAAGGAAAGACCAGACCA GAGAGAGCCAAAGGAAAAACAAAAAGGGGAAGGAAAACAAAG GAAGGAAAAAAGGAAAAAGGACAAGAAGGAAACGAAAAAAGBG
 GAGGGAAGGAAGGAGGACCGGAAGGAAGAAAAAAAGAAAGGG G G GAGGAGGAAGGGGGAAAAAAGGAGGGAAAGAGGAAAACCT A GACC GAACGAGGAAGGCCGAAAGGAGAAGGGGGGCCGGGGA GAAGGGGGGGCGAAAGAGGAAAACCGAGGGGAGGGGGCCGBA GAGAGAAAGGGAGGGGAAAGGGGACAAAACACAAGGAAAGGA GCCAGAGGGGGAGGAGGCAGAGGGGAAAAAAGAGAAGABAGA AGGAAGGAACCAGGGAAGGGGGAAAGGCCAAAACCACAAGAA A A G G G G G A A A A G GAGAAGAAGAAAAAGGGGAGGAACAAAAAA C G G A A A G G A A GAGGGACCC GAAAGAGGAGAAAAAAAAAAAAG G G G A A A C G G G A A A G G G G A G GA C A G A G A A G G GA G G G A A G G A A G GCACC G G CA $\mathcal{A} G \operatorname{C} G A A C G G G G G G G G G G A A G G G G A A G G G A A A C A B$
 G GAGGGGAAGGGGAGGGAAAAAAGGAGGAGGGGGAGAAAAAA A A A A A G G G G GAGAACCCGGAAGACACCAACAGGGGGAAAAAG
 A G GAAAGCCAAGAAAACGGACGGGAAGGACCGAAGAAAGAAA A G A A A A A C A A G A A A C G G G A G A G G G A C CA G C C A A A A G G G G G A A A A A G G GAGGCAAGAAAAGACCGAAAAAGAGGGGGGAAAAGGT T G GAACCAAAGGAGAGAAGCAACGAGGAAAAAAAACCAAGBA A A G GAGGGGAGAAGGGACAGAACAAAAAAGAAGAGGAAGGAG A A A G A G A A A G A A A GAAGCCTAGAAAGGGGAACCGGGAAGA GA GCCGGGGAGAAAAATGGAGACAAGGGGAAAACACCGGAAAAA AAGCAAAAAAAAAGGAAAACAAAAAGGGGGGAGACAGGAATT A GAGAA $A \operatorname{A} A C C G G C A A G A G G G C A T T A A C C G G A A G G G G G G A G C$
 G G G GAGGAAACGAAGGGAAGGAAGAGGAAAGAGAAGAAAGGG GAAAAGACCGGGAAAAGGGCCAGAGAAGGAGAACAGAGAGAAA AA GAGCCACGGAAGGGAGGAACCAGAAAAGAACGCGAAAAAG GAAAAAAAAAAAAAAAAAAAAAAAAAAGGGGGGGGAAAAGGG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA A A A G G A A G G A A A A G GAAGGAACCGGAAAACCAAGGGGGGAAA $A G G G G A A A A G G A A G G G G A A G G A A G G G G A A G G G G G G A A G A A A A$ A A A A A G G A A G GAACCGGGGGGGGAAAAAAGGAAGGAAAAGGA $A G G G G A A G G G G A A A A G G G G A A A A G G G G G G A A C C A A C C G G G G A$

A G GAACCAACCGGGGAAAAGGGGGGAAGGGGGGAAAAGGGGG GCCCCAAAAGGAAAACCGGAAAAAAAAGGGGGGCCAAAGAAG GAAGGAAAAGGAAAAGGGGCCCCAAAAGGGGGGGGAACAAAC C G GAAAAGGAA G GAAAAAAAAAAAAACCAAGGGGGGAAGAAAC CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACCAACCG GAACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGGG G G GAAG GAAGGAAAAGGCCAAAACCAAAACCTTGGGAAAAAA $A C C G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C A A A G$ GCCGGGGGGAAAAGGAACCAAGGAAGGGGAAGGGGAAGACCG GAAGGGGGGAAGGGGGGGGGGCCGGGGGGCCAAAAGGGGGGG GAAAAAAAAAAAATTAAGGGGAAGGCCAATTAAAAAAAACCA A A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAAGAAACCG G G G G G A A T T G G A A A A G GCCCCCCAAAAAAAATTAAAA G GAAT TAAAAAACCAAAAAAAAGGGGAAGGGGGACAAGAGAGCA G GA GAAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCGBA AAAAGAGAAGGGGAGACGGAACCAGAAAAAACCAAGGGGAAG A A G A A A A G A G ACAA ATAAAAAGAGGAAAAAAAACCAAAGA GA A A GAACAAAAAAACACACCCAGGCCGGAAGGAATTAAAAGEG AAAAAGGAGAAGAAGAAAAGGCCCCGGGGGGAGGGACGAAAG
 G G GAACCCGAGGCAAGGAGAGGAAAGGGGGGAGGGGGAAGGG G GAAAAAAACCAAACAGGGAAGAAGGATTGAAAAAAAAGGGA CAGGGAGCCACGGGGGGGGAAAAAAAGAAAAGGAAAGAAAGC A G G A A A A A GAA $A \operatorname{G} \operatorname{A} A A A A G G A A A G A A G A G G A A G A A G A G G A G G G$ $G C C A G A A G G A A A A G G G G A A G G A A A A G G C C A A G G A A G A A A G G G$ GAAAAAAAAAAGGAAGGCCAAAAGGGGGGAAGGGGGGGGGGA AAAAAAAGGGGAAAACCGGGGGGCCAAGGGGGGAAGAAAAGA GAAGGGGAAGGAAGGGGCAACAAACAGGGAAAGAAAGGAAGAC CAAGGAAGGGACCAAAATTAAGGGGGAAAGAGAABCCGGGGA AAAGAGAAAGGAACCGGGGCCGGGGGGAAAGAAAAAGGAACA G G GAAAAAA A GAAAAAAAAAAAAGGAAGGGGAAAAAAGAAAA CAGAACCGGGGACAGGGCCAAAAGGGGACAAAGCCAGGAGGA ACCAAGGAAACGGAAAGAGGGGGAAGAATCCAAGGGAGACAAA A GAGAAAGGGGAAAAAACCAAGGGGAACAGAACGGGGGAAAA A G G G G G A A C G A C C G G G G GAGGGGAGGAAAGAACCC GAAAAA $A$ GAAGGGAGGGGGGGGGAGGAAGGGAGGAGCCAAGGAAAAAGG GAGCCGAGGAGAAGGACGACACGAAAAACGGGGCCAAGGGGG GGGCCGAAAAACCCCGGAACCAAGGGAAAGGGGAAAAAAAGA AAA A G G G G GCCGGAAAAAGAAAAAGCCGGCCGGGAGGGGGGA A A G A A A A G A G G A A G G G G G G G G A A A A G GC CAAAA A GCAAA A A C C G G GAGAAGGAAAGAAAGAGAAAGAAAAAGGGGGGAAAAGGG GAGGAGGCCAAAAAACGCAGGCCAAAAGGGAAGGGAGACACA G G GAAGGGGAACCGGAAGGCCGAGGGAACAGAAGAGGGAAAA
 $A C C G G G G A A A A G G C C G G C C G A G G G A A G G G C C G G G G A A G G G A A$ $G C C A A G G A G A A G A A A A A G G A A G G G G A A G A C C G G A A A A A A G B A$ A A A G G A A A GCA $\operatorname{A} A A A A A A A G G G C C A A G G G G A C G A G G C A C A G B A$ AAACCACATACCCCCAAAAAAAAGGAAGGGGAAGGGGAAAAG
 A A A G GCAGGAGCCAAAAAAAAGGAAAAAAGGGAAATTGAGGA G G GAA $A \operatorname{G} G A G G A G A A A G G A A A A G A A A A A A G G A G A C A A A A G G C$ $A C C A G G G A A A A G G A A A A A G G G A G A A G A G A G A A A A G G A A A G G A$ GAGACGGGGGGAAGGGGAAGGGGAAAAAAAGAACCAACAAAA AAAAAAAGGGAAGAACAGAAGGAGGCCAGAGAGACCAAGGGG GAAGGGGAAAGCCGGGAAGGGGGGACAGAAGGGAAGAAACAA A A A G GCCAGAGAGAGGGGGAAGGGGCCAATTAGAAAAAGAAG A A A A A G G A A A A A A C CAGAGGGGAAAAAGGAAAGCCGGGGGAA A G GCCAGAGAAAAGACACAGGAGAAAAGGAAAAAAGAAAAAAG ACAAACCAGAGGAGAGAAGAAAAGGAAGGGGGAAGAAGAAAA
$A \subset C A A G G A G G G A A G G G A A A A G G A G G C A A A G G A A G G G G A G A G A$ A G GA GCCGAACAAGGAAAAAAAAGAGGGGGACACAAAGAAGG A G G A $\mathcal{A} A G C G A G G G G G G G G G G G G G G G A A G A C A A A G G A A C A A A G$ G G G GAGCAGAGAGGCGGAAAAAAAGGAGGAAGGACGAGGGAG AAAGAAACCACGGGGAGGGAAGGACACGAGACACCCAAGTTG G G A G A G A G G G A A A A G G G A G A A G G A A C C A A G G G G G G A G A G G G G G GAGGTTAACCGGGGGGAAAAGGGGCCGGGGAGAAGGGAAAG GAGCCAAGAAAGGGGGGGGGAAGGGGGAGGGGAAAGACAAAG G $C A G G G G A A A G A A G G G G G G G G G G A A G G A G A T A C A G G A A A A G A$ AAGGAGAGGAAGGGGGGGGGGGGCCGGAACCGGAAAAAAAGG AAAAGAAGGAACAGAGGGAACCCAAAATTCCGACCGGAGAAA A A A C A G G G G A G A A $\mathcal{A} G G G G G A A A A G G G G G G G G C C G A A A A A G G G$ A A A A A A A A A A A G GCAGAAAAAAAGGAAGAAAAAAGGGGGGGA A G A A A A CAGCCAAATGAAAGACAGCAAAAGGGGGGGAAGAAA A A A A A C CAACCGGAACCGAAAGGACGGAAAAAAAAAAAAGGA GAACACAAAGAAAAAAAGAAGAGAAGAAAGGCAAAGGGAAGA CAA $A \operatorname{GA} A C C C C A A A A A A G G A G G G A A G G G G A A G G G G G G G G G G A$ GCGCCGGGGAAAAGGGGGGAGGAGGAAAGAAACAAAA
G GAGAACCAAGGGGAAGGGGCCGAGGAAGGAATAACGGGGG GAAGAGGGGAAGAAGGGAAGAGGCCGGGGAAGGAAACBGCAG A G G A GAAAAGGGGAAGATTCCGGAAGAAGAATTAAAAG GAAC $C \subset C G G A A G A A G G A G A A G A G G G A A G G A G G A A G C A A A G A A A G G G$ GCCAAGGGGCCGAGACAAAAAGGGGAAAGACGGAAAGCCAGG C G G GACAGGCAAAGACCAAAGAAAAAAGGAGAACCAACCGGC CAACCACACGGCAGGACGGGGAAAGAGAAAAACCCAAAAAGA G G GCC G A A A A A A G A A GAAGAGGCGACGGGTTGGAGGAAAAA G

 A G G G A A GCCAGAGAGAGAGGGAGACACGAGGAAGGAAGGCCG $G C C G G G G A C A G A A C A G G G A A A A A G G G A G G A C G A A G A A G A G G G$ $G C \subset A A A A G G G G A G G G G G G G A A G G A A G G A A C C G G G G A A A A G G G$ GCCGGAAAAGGCAAAGGAAGAAAGGGCGGAGAGGAGAGAAGA GAGAAGGAGAGACGGAAGGACACGGCCACGGAGAGACGGGGC $A G G C A G A A C G G G A G G G G C G C A A G A C A A A A G G A A A G G G G A A A A$ GAGGAACGGGGCCAGAAGGGGAAGGACGGGGAAAACCAAA GA CACAAAAAAGGAAAAGGCCGGAGGGGAGACCGGGAGGGGAAA A A GAC $\mathrm{C} G \mathrm{~A} A A A A A G G G G A G A G C C G G G A A A A G G A C C G G A G G G G$ GAAGGAGCCAAGGGGGGAAAAGGAAAGGAGGGACCGGAGAAA A GAGAGGGGAGGAGGAACCGGAGACGAGGAAGGGGGAGAGGG GA $A$ A A $\operatorname{A} G A G G G G G G G A G A A A G A G A C A A C C G G G G G G A A A G A B A$
 G G G A A C C A A A A G G G G C C G G G G A A G G A A G G G G A A A A G G G G G G A A G G A A G G G G G G A A A A G G G G A A G G A A A A G G G G G G G G G G A A G G G GAAGGGGAAGGGGGGAAGGAACCGGCCAAAACCAAGGAAGAA A A A G G A A A A A A A A A A A A A A A A G GTTAA G G A A G GAAAA A GAAA $A C C G G G G G G A A A G A G G G A G C A G G A A G G G G A G A G A A G G G G G G A$ AA $\mathrm{A} G \mathrm{~A} C \subset A A G G G A A A C G A A A A A A G G C C A A A A A G A G G G A G G A C$ C GAA A GAGGCCAGGAAAAGGAAAGGAAAAAAAAAGAGGGGGA
 GCCAGGGGGAAGGGGGAGGCCCCGGAACCGAAACCGGGAGAG GACGGCCAACCCAGCAGAAAAGGCATTGAAGCCAAAGCAAGA G G G G A A A A GA $A$ A $A G G G G A G G G G A C G G A A G G G G A A A A A A A G A A A$ GAACCGGAACCGGAAGGAAAGAAGGGGAAAACCAAGGGAGGG G G G GAA A G GAGGAAGGAGAAAAAAAAACAAAAAGGGGAAGGA A A A G G A A G A GAGAAAGGAGAAAAAAAAGGAAAA GA GAAAA GA GAGTTAAGGAAAAGGGAGGAAAGAAAGAGGAAGAA GAA G GAGA AAAGGAAGACGCCAGAGAAAAGGGGACACGGGAGAAAAAAAG
 G G GAACAGGAGGGAGAGGAAGAGGAAAGGGGAAAGCAGGGGC
$C T T A T G G G G C C C C A A G G A G A C G G G G A A A A C C G G A G A A C A A A G$ A GAGGGGGGACGGGAGCGACCGGGAAGAAAAGAAAAAAAAAA G G GCACCAAACGAGGGAAGAAGGCCAAAAGGAGGGGATAAAG G G GAA $A \operatorname{GGGAA} G A A G G G G A A A A A A G G G A C A G A G C A A A A A G G G$ GAAGGAGAGCAAAAAAGAGGGGGGGAAAGAGAGGAGAACCCG A G GAGCAGAACAGACCAGGGAAAGGAAGAAAAACCAAAAGGG G G G A A A G G A G G G G A A G G C C C G A A G GA $\operatorname{A} A A A G G A A G G G G G G G G G$ G G GCC G G A A G G G G G GAGAGGGAGGGAGAAAGCCGGGAA GAG G G G G GAGGGGAACCAATXCCGGAAAAAAGAAACCTTGGGAAAG G G G G G G G G GACAAAAGACAGGCCGGCCAGGGCCGACCAACAA A A A G G G G A A G G G G A A A G G G GAA A A GAGAATTGGACCACAAA A A GCCGAAAGAAGGGATGGACAGGAAAGAGAAAGGGATTCXGAG A A A G G A A G G G G G G A A G GAAGGCCCCAAACAGAGAGAAAAGAA AAAAAGGAAGGGGAAAAAACCAGCCAGAAAAGAAAGGAAGAG ATTAAGGAGAAGGACGAAAAAAGACAAAGAAGGGGAACACCG GATGAAAGAGAGGACGGGGAGGGAAGAGGAGACGACAGAGGA A A A G GAA $A \operatorname{GAA} A \mathrm{~A} A \mathrm{~A} A A A A A A A G G G A A A A A A G G G C C G A A A G B A$ A GACCAAAAAGAGAGAGAGGGACGAAGTACAGGACAAGAAAA AAAGAAACCAGAAAAAAAAAGAAAGGGAAGGCGAAGGCCCCG A G GAAAGACCCAAGGAGCAAAAAAAGAGGAAAGAAAGAAAAG GAAAAGAGGGAAAGGAAAAAGATAGGGGAGAGGGGAAGGGGA A A A G G A A G GAGACGGCCGGAGCAGGCAGGGAGAGAAAAGGAA A G G G A A A A C G GCCAAAAACCCACGGCCAAGGCCGAGAAAGGA A G G C C A G G A G G A A A A A $\mathcal{A} A G G G G A G G G G G G A A G G A G G A C A A G B$ AA $A G G G A A A A A C C A A A A A A G G A A A A G G A A G G G G G G G G A B A A G$ G G G G G A A A A G G G G G GC CAA $A \operatorname{AGGGGGAAAGGGGAGAAGAAAGA}$ GAAGGGAAACGAGAGGGGGGGGAAGGGCCGGGAGGAACAGAG GAGGAGGCCGGAGGGAGGGAGCCAGGGGGCCGAAACCATGAG GAGGACCAAGGAAAAGGGGGGAAAGGAAAAGCAGGAGGAAAA G G GAAAAGGAAAAGGAGATGAGGCCAAGGAAAGAGGGGGCAA GAAGGGAAAGGGGGGAAAGAGAAGGAAAGGACCAGAGAAGAA AGGCAAAGGGAGAAGGAGAGAAGGGAGGGGGGGAAAAGGCCA GAAA $A \operatorname{A} A A \operatorname{A} A A A A G G A A A A G G G G A G G G G A C G C C G G G G G G G G G$ A GA A A G G G GAC $\mathrm{A} A \mathrm{~A}$ GAAGGGGAGAGGGGGGAAATACGAGGGGG
 AAGACAAGGAAAAAAGAGAGAGGCCAGAAAAGGGACAAAAAA A G G G G G G A A G G G G CA A A A A A A G G G GAA A G G G GAAA A CAA A G A
 A G G A A G G A A G G A A G G CAGGAAAAGGTAAGCCAGCCGAA GA GA A A A A G A A G G G G GAA A G A A G GACCGGGAGCAGAAA GAA GAAA G A G GAA A A G A A GCC GAGAAGAAGGGGGAAGAAAAAACCTTGGG GAAAAGAACAGAAAGGAAAGGCCACGGAAGGCAAGGAGAAGA CAAAAGGAAAAGGGGAGGGGGAAAAGGCAAGGAAAAAGGGGA A A A A G G A G A C A A G A A G G G G G G G G G A G G A ACCCCGCAAAAAAA $A C C A A G A C C G A G A G G G G A C G G A G C C A A G G A A A G G G G G G A A G A$ A T T G G G G G G A G G A G G G G A G G G A A A A A C G G A A A G A A C C G G G G A A ACAAAGGAAGCCGAGGGAACAGAAGAAGAAACAAAABACCG G G GATAACCGAGAGGAAGGGAGGGGGACCAGGAGGAAGGCGC C GAGAGAATCAGGGGGGAAAAGGAAAAAGGAAGGAGCAAGAG A GAAAAAGGGGAAGAAGAGCCGAGGCCAAGGCCAAAGCGGGA
 A A A A A A A A A $\mathcal{A} A G G G G G G G G G G A A G G G A G A A G G G A G B A A G A B C$ CAACCGGGGCAGGAGGAAAAAGGAGAGGGAGGGGAGGCCGGA
 GAGAGAGAAAAAAGGGGAGAGGGCCAGAAGGAAAAAGAAGAG GAAACAGAGAGGAGAAGCAGACAAAGAGGAAGGAGAAAAAAG A G GAAAACAGAAAAACCAGGGCCGGGGAGGCGACGGGACAAG G A G A A G G A GAGAA $A$ A $\operatorname{A} G G G G A G A A A A A C C C G G C A A A A A A A A A G$ G G G G G A A A A G G G GAA $A \operatorname{AGGGAAAAGGCCGGAAAAGGGGAGAAA}$

G GAGGAGGGAGGGAAAAGAAAGGAAAAGGCCGGGGAACAGAG A GAGGAAAGAAGGAAAGCCGGCCAAAAGAGGCCCAACGAGAG AGAACGGCCCCGGAAGAAAAAGGAAAAGGAAGAAAGGGACAG A G GAAAACCGGGGGGAAAAAAAAGGGGAAAAAACCAAGGGGA AAAAAGGGGAACCAAGGGGAAGAAAGAGGTTAAAAAGAAAAA
 A G G G G G G A A G G A A G A A C A A C C G GACGGC CAA GAAAAGGC C CA $G C A A A A A A G G G A A A A A A A G G A A A A A G G C C A A G G G A C A C C G G A$ A A G A G A A G G G GCC G G G G C C G G C C G A G G A G G G G G G G G A A G A G G GCAAGAAGACCGGAGAGGAAAGGGACCAGAAAAGGGGAAGGG GAGAAAAAAAAGGAGAAAAAAAGAAGAAGAAAAAAAAAAA GA GAAAAAAGAGGGGAAAAAAAAGGAAAAGGGGGGAAAAAAGGA A G G A A G G A A G GCC G GAAAAAGGAAAAAAGGAAAAAAAAAAGGG GAAAAAACCGGAAAAGGGGGGGGGGAAGGCCAACCAACAAAC C G GCCGGGGGGAACCAAAAGGAAAAAAGGAACCAACCCCGGA GAAAACCGGGGGGAAAAAAGGGAGGGGAAAAAAAAGAAAGGC A A ACCCAAATTAGAAGGGGCACCAAAAGGAGAAAAGGGACCG G GAACAGCCAAGGAGAGGGGGGGAGCCAAACCCAGGG
A G GAGGAAAACCAAGGAGAAGGGGAGAAGGGGAGCAAGGGG GAAA AA A A GAAACAAGAGGAAGGGGGGAAACAGAGCCGGGGA A A A G GAAGGGGGGAAGGGGAGAGAACCAGAAGGAAAAAGAAA A GAAAAAAAGAAAAGGGCCGGAGGAAAAGAGGAAGGGAAGGG G G G G A A A G A A A G G G G G A A G A A C C G GAGAGAGAA A A C C G G G G A G G G A G G G G G A A A A A A A A G G G G T A G G G G G GCCGAAAAAAAAAA $A A G G G A G G G G A G G A A G A G G A G G A G G G G G G G A G G G G G A A G A A G$
 G GAAACCGGGGAAGGAAGAGGAGGGGGGGAACAGAAAGACAC C G G A G A A G G GAAC GAGAGGCCCACCAGAAGAGGAAGGCAGAA G G G G G G G G A G G G G G G G G A A G G G A G G A CA $A$ A G G A A A G G C C G G A AGGAGGAGGAAGGAAGGAACCGGCCGGAAAAAAAAGGAAAAC CAGAAAGAGTTGGCCGGAGAGAGGGAAGGAACCAAAAAAAGE GAGAGGAAAGGGGAAGGCCGGCAACGGGAAAAAGGCCAGACA AAAGACAGAGGAGGAGGAAAAAAAGGAAGAAGGACCCBAGAA G GAGGGAGGGAAAAGAAAACCBAGGCCGGAAAAGGAAGAGAG A GGCCCAAGGGAAAAAAAAGGAAAAAGGAAAAGGGGGAAAAG G G GCCAGAGGAAGACAGAGGAAAAAAAGGCCAAAGAAAAAGA AAACAGGGGGAGAAAAAAGAAGGTTGGAGAACCGGGGAAAAA AAAGAGAGGAGGAAAAAGGAGAAGAAAAAAAAGCCGGAAGGG GAAGGAAAAGGAAAACAGGCCGAAGGGGGGGAAAGAAGBCAA $A C C C C A C G C G G A A C A A A C A A G A A G A A A C G G G A G A T A G C X G A A$ $C G G C C A A A A A G G G G G A A G G G G G G G G G A A G G A A A G G G G G G G G A$ A G G G G G G A A A A A A $\mathcal{A} G A G G G G G A A G A G A A A G G G G G G A G G G T T A$ $A C C A A A A A A A G C C G A A G A A G G G G A G A A G G A A A A C C A A A C A A G$ GCCAGGGGGAAAAAAAAGAAAAAAAAAAACCAAAGGAAAAAA G G G G G G A A A A A A A A C G GAA $A \operatorname{ACC} G G A C A A G G A A A A G G G A A A A$ A G GCCGAAGGGAGGAAAAAAAGGCCGGGGAAAGAGGACCGAA GACAAAAACAGTTGGAAGGGGGAGCAAGGGGCCCCAACAAGB GAGCGAGAAAAGGAAGGAGAACCAAGAAAGATTCCGGGAGGA ACAGAAGAGAGAGGGCACAGAGGCCAGAGAAAAAAGGGACAA ACCAAAAAAACGGAGAGAAAGAAAAAAGAAACCGGGGGAAAAA A A A G G G G G G G G A A A A G G A G GACAAAAAACAGGGGGGAGAAGAG AAAGAGAAGGAGAGGAGAAAAAAGGCAAAAACCAAAGGGCCG GAAAAAAAGAAGGGGAAAAGGGGAAGGGGAGGGAGGAAAAAG AGGAAGAGGACCAAAAGGGATAGACAAGGGAAACCCCAGAAA AAGCCAGGACAAAGGCCCCGGAGAACCAGACACGGGGCAGAA A A A G A $\mathcal{A} G G G G G A A G G G G G G G G G G A T A A G G G G C A A G C A A G A B A$

 $A C C G G C C A G G A A A A A C C C C G G G G G G T A G G G G A G G G C A A A G G G$

G G G G GA $A \operatorname{GGGGGAA} A A A A A A A G G A A G G A A G G G G A A G A A A G G A$ A A A G GCCGGAAGGGGAAAAGGAAGGGGAAAAGGCCGAAAAAG G G G G GCC G GAAAAAAAAGGAAGGAAGGGGGGAA G GAAAA A A A A G $A$ G G G G GCCGGAAGGGGAAGGGGAAGGGGAAAAGGAAAAAAGGG GAAAAGGGGAAAAGGAAGGGGAACCAAGGAAAAAAGAAACC G G G GAAAAAAGGAAGGAAGGAAAAAAGGGGAAGGGGCCGGGGA AAAGGAAGGGGAAAACCAACCGGAAAAAAGGGGAAAAABAAG GAAGGCCGGGGGGGGGGGGGGAAGGGGGGGGGGGGCCGGGGG G G G G G G GAAAAACCGAGGAAGGGGAAAAGGAAGGGGACGGGGG G G G G GAA $A \operatorname{GCC} C G G G C C G G C A C C G A G A A G C C G A G G G G A G G G A$ GAAGGAACCAGAACCGGGGAAGAAGCCGGGGGGGGGAGACAA A GAGGCCGGGGAACCCCGGAGGAGGAAAAAGAAAAGGAGGGG AAAGAAAGAAAGGGAGGAAAACCCCGAAAGGCCAAAGAGAAA GGGCCGGCCAAGGGACAGAAAAAAAAAAAAAAACCGGGGGGA AAAGGGGAAAGGGCCAGGGGAGGGGGACCAAGGAAACAGAAG GAATTGGGCGGGGGGAAAAAAGGAAGGGGAAGGCCAAAAAAAA A G GAGAGAAGAGAAAAACCGGAGCCAAAGGGGGAAAATACAC C GAGGGGAGAGGAGGAAGGGGAAGGCCGAAGAGAAGGAAAAA A A A A A A ACCAAGAAAAAAAAAAAAGAGGGGGAAAGAGGACAA A $G G G G G G A C A G G G A A G G A A A A G G A A G G G G A C G A G A C C A A A A A$ G G G GAAAAAGGGGGGAAAGAGGACGCCAAACGAGGAACCGGA GAGACAACAGAAAGGAAAAGGGAGGAGGGACTTCAGAAAAAAA AA $A G G A G G G A A A A A A A A A G A A A G A G G A C C G G G G G A A A G G G A A$ A G G G GCCACAAGGGGGGAGAGGGAAAAAAAAAGGAAGAAAAA GAGAAAAAAAGACCCAAAGAAACAAAAAAAAGGGGAAAAGAC
 A G GAGACCCAGGGGGAAACAGAGGAGGGGGAAGCCGAAAAAG GAGACAGGAAGGACCAGGGGGCCGAGGGGCAAGAGGAGACAC A A G G A G G A A G A G G GAAGGAGACCGAGGGGAGGAGGGA GAAAA AAAGGGGGAACAAGGAGGGAAAGGGAAGAAAGGAAAGGAGAA A GAGAAAGAAGACGAAAGGGGGGGGAACAAGGGGGAGGAAGG GAACCGGAAGAAGAGAGGGACGGGGAAGAAGAGAGGAGAAAA AAAGGCAAAGAGGAAAAGGAGGGCCGGAAGAAGGGAAAAAAG
 G G A G A A G G A G G G G A GCCGAGGGAAAGAGGAGAAGAAAAAAAG A G GA $\operatorname{A} G A G A G A G G A A A A C C A A A A A G C C A A G G G G A A A A G A A A A$ A GACAGGAGCAGGCAAGCAAACAGAGGGAGAAGAGAAAAAAG GAACCGGAGAAGAAGAGAGGGAAGGGAAAAGGGGAGGAAGAAA GCAAAAAAAAAGAGAAGAACAAGGGCCGGAAAGAAGAAAAAA G G G G A A G A A G G A A G GAA $A \operatorname{A} A A A G G G G A A G G A A A A G G G A G A A A G$ GAACAGGGAGGAGAAGGAAAAGGCCGGAAGGAAAAAAGAACA AAAAGAGCCAAGGGGAAAAGGCCAGAAAGCAAGAGAGAACAC CAAGGAAAAGGAAGGAAAGAAGGAAAGAAGAAAGGGGAAGGG G G G G G G GAGGGAGAAGGAACCGGCCAAAAAAGAGGGAAAAAG GAAGGGGAAACAAAGGAGGGGGGAGCCAAAGAAAAGAGAGAC C GAGGAGAAAAAGAACCAGGGACGACCBAAGAGGGAAGGGGG $G G A A G A A G G G G A A G G C C A A A A A G C A G G C G G G G G A A A A A G A A G$ AGGAAAAGAGAATGAGGAAGGAAAAAAAGAAGAGAGAACGAA GAAGAGGAAGGGAACGGGGCCGAGAGAGGAAAAGGAAGAAAA A G G G G A A A GAC $\mathcal{A} G A C G G A G A C G G C C G G G G A C G G A A A A A G A A G$ G G G A G A G T T A G A G C C G G G G G A C C A A A A C C G G G A A C A G G G G G C C G GAGGAAAAGCAGGGGAAAAAAGGAAGGAACCAAAACAAAA A G GA G GACCGAAGAGGAAGGAACAAAACAACAAGAGGCAGAA AGGAAGAGGAAAGAAGGAAAAGGAGAAGGAGGGAAAAAAGGA
 A A A A A G GAA $A$ A $A \operatorname{G} \operatorname{A} A A A G A G A A A A A G G A A A G G A G G G G G A G G A A$
 $C G A G G C C G G A G G G G G A C A A G G C C C C G G G G G A G G G G A A A B A G B$ AGGGAACAAACGAGAGGGGGAGGAAGGGAGGAAACAACAGAA

A G G A A G G G G G G G G A G G G A G G A A GAGGGCCCAAAGACAGGGGC $A C C G G G A A G A A G G G G A C G A A G A A A A A G G A G A A A G A A A A A G G C$ CAAAAAACAGGGAGGGGGAAGAAGAAAAGGAAAGGGAGGGGG G GAGAGGGGCCACGGAAGGGGGGGGACGGGACAGGCAAAGAA GAAGGGGCAACAAAGAGACAGGGAGGAACAGGAGGGGGGGGC C GAGGAGAGAGGAAGAGGGAAAAAAGGGAGGAA GAA G GAAGGA $A \subset A G G A G A G A G G G A A G G G G G G A G A A A G G G G G G G G G C A A C G A G$ GAAGATAGGGGTAAGGGCAGGGAAAAAGAGGGGAGGGGAAGA GAAGAAGGGGGAAGGGGGGAAGGGGAAGAGGCACAGACAAAC $C \subset C A A A A G G A A A C G G A A A A A G C C G G G G A A A A G G A A G G A A A C A$ AAAGAAAGAAAGGCCGAGAAAGGGGAAGAAGAACCAACAAAC CAA $A \operatorname{GA} A A A G G G G G G A A G G A A G G C C G G A A G G G G G G A A A A G G C$ CAACCCCCCAAGGGGGGAAAAGGAACCGGAAGGGGAAAAGGA A A A G G A A G GAAAAAAAAGGAAAAAAAAGGGGCCGGGGCCGGA AAAGGGGGGAAAACCGGGGGGGGGGAAAAAAAAAAGGCAAAA A G G G GAAAACCAAAAAAAAAAGGAAAAGGGGAAGGAAAAAAG GAAAAGGAAGGAAAAAAAAGGAAGGAAAAAAGGCCGGGGGGT TGGAAAAGGGGAAAAAAAAGGGGGGGGGGGGAAAAAA
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G G G GAGAAAAGGGGGGGAAGGAAAAAGAGAGAGAGAAAAACG GAAAACCGGAGGAAAAGGGCAGAAGGAGAGGAACCAACAACC C G GAG $\operatorname{G}$ GAA $A \operatorname{GAAAAACCAAGGAAGAGGGGAAGGTTAAAACCT}$ TAAGGAAGGAAAACCCCGGGGAAGGAAGGATAAAAAACCGGA AA GAAAAGGCCGGAAAAAACCCCAACCGGGGAAAAAAGGGGA
 GCCGGAAGGAAGGAAAAGGGGAAAAGGCAAGGACCACAAAAA GACAGAGACAAAACCAACCAGGGAACGAGAAAAGAGGGAAGC C G G G G A A G G G A A G C A G G G G G A A A A A $\mathcal{A} G G G G A A G G A A G A G G G G$ GCCGAGCGGGGAGCCTTGGAGAACCCCCCGACCGGAAGAAAA AAAGGAGAAAAAAGGAAGGAACCGGAAGGGGATGGAAAAAGA G G G G A A A G GAAAAGGGGAGCCCCAAGGCCGGAGGGCAAAGGG GAGGAAACAAAGGCAAGGGAGTTAAGAGGAAGGCCGGCAAAA A A A C C A A G G A A GGAACCAAAAGGAAGGCCGGACCAGGAACA G CAAAAACGAAACCGAGCAAGGAAAAAGGAGGAAAAGGGGGGG GAAAAGGAGGACCGACAAGGAAGACGCCAAGGGAAAAAAGGC $A C C C C G A A A A A G A A C C C G G A A G G C A G G C C A A A G G A A G A A A G C$ A A C G G G G G GAA A G A A G GAA $A \operatorname{AGAGAAGAAGAAGAGGGGGAACC}$ CAAGGAAAAGGACGGAGAAGGGGAGGGGGAAAACCAGAGGGG
 AACGACAAACCGGAGGAGAGAGGGGGGAAGGCCGGAAGGAGA A G G G A C A A G A A A A G G G G G G G G G A A G C C G G T T G G G G C C G G G G A AAAGAAGGGAAGGTTAAAGAAGGGAAAGGGGACAAAGGAAAC A A A G G A A A A A A A A GACAGAAGAAAGGGAGGAAGAAAAAGGAA A GAGAGGGGCCAAGGACAAAAGGGGGGAAAGGGCCGAAGGGA CAAGGGAGGCAAGGAAGCAAAAAAAAAGGAACCGAGGAGGGG GAGAAAGAGAGGGGAGGACAACCAGAGAAGGAGGGAAAAGAA GACGGGGAAAAAGGGAAGACCGGGGAAGGGGAAGGACAAGGC AAACCGGGACCAAGGAAGAACAAGCAGAAAAAGAAGAGCACA C GAAGAAAAAAAAGGGGGGGAAGAACCGAGAAGCCGAAAAGAG G G A A G A C A A G G A G G G G A G G GA $\mathcal{A} G G G G G A G A A G G G G G G G A A A A$ AA $A G A G G A G G A A G G G A G A A A A A G G G A A A G G A A A G G A G G A G G G$ G GAACAGGGGAAAAACCAAGGAAGGCAGAGGGGAAACAAAAG GAAGGAGGAAACCGACCAGGAGAAGGGAAGGGGAAAGTAACA G G G G G G G G A G G G G G A G GAAA A $\mathcal{A} A A G A A G A A A G G G A A G G A A C A A$ A A G G G A A G GAA $A \operatorname{G} A A A A A A A G G A A G G A G A G C C C C G B A A C C G G G$ $G C C G G C C G G C C G A G A C C G G A G G G A A A A G G C C A A G G G G A A G G A$ AAAGGGAACAGGGAGAAAACCAGGGGGACAGGAAAGAAAAAA

 A G G G G A A G A C G A G C C G G G G A A G G G GA GA A A GA A A C G G G G A G C C G G G A A A G A A A A A G G G GA GAGGGAAGAAGACAG GAAAA G G CA A
 G G G G G G G G A GACAA GACGAGGAAAGGGACAAGAAATAGAGGA
 $G G A A G A A G G G A G G A G G A A G A A A G G A A G G A G G A A A A C C G A G A A$ G G GAACCGGAAGGCCAAAAGGGGCCGGCCGGGGGGAACAACC C G G GAAAGGAACCGGGGAGGGAAAAAAGACAGGGAAAA GAAA A GAGAAGGAGAAGAAAAAACCAAAAGGGGGACACAAAAAGAA A GAGGAGAGAAAGAAGGAGCAAAGGGGGGGAAAAAGACAAAG G GAAAACAGAGGGCCATGGAAATGCAAAAAGAGGACGCAAAA CAGCAAGAAAAAAGGGAAAGGTTAGAAGGGAAAGGGAAAAAC A A A A G G G G G GAGGGGAAAAGGGGAAAACCAAGGAAAAGGGGG G G GAGGGAAGAAGAAAAACACAGGAGAGGAGAGGGAGGACAA AAAGGAAGGGGCCCCGGGAGGAGAAGAGAGGAAAGCCAAGAA CACCAACAAGGAAAGAAGGCCCCGGAAAAGAGAGAGGAGAAA GAAGGGAAGAACCGGCCCCGAGGAGGAGAGAGGAAGGGGGGG GAAGGGAAAGGGAATGGAC GAGAAGAAGGAACAAA GGGGCCG GAAGGAAAAGGGGAAAGACCCGAACGGGAGGAGGGAAAAACC

CAGTTTTAAAAAAAGAGGAAGGCAGGAGGGGCAAACCGAAAG GCCGGGAAACCGAGGGGAAGGGAAAAACCGGGGCCCAAAAAA AAAGGGGAAAGAGAGAAGGAGAGAAGGGGGGCACCGAAAAAA AAAGGAAAAGGAAAAAAGGGGAAGGGGGGAGAACCGAAAGAA A A G G G G G G GCCAAGGGGCCCATAAAGGAGGACAAAAGAGAAA
 $A G G G G G G G G G G G G A A A G G G G A A G G G A G A A A A G G A A A C B G G G G$ AGGAAGGAACCACAGAAGGGAAAGGGGGGGGAGGGAAAAAAG G GACCAAAGGGGACCGGGGGGCAAAAGGAAGGAAGGACAAAA AGGGGGGGGAGAGAAAAGGAAAAACAAAAGGAAAGCCGAAAA A GACCGAACAAAAGAGGAAAAGGGGGGAAGAGGACAGAGAAG
 GAGCCGGAAGGAGAGAAGGTTAACCAGGGCCGAAACCGGGGA A GAAAAAAAGGGAGGGGGGGAGAAGGGGGGAACAGCCAAAGG A G GAGAAAAAAGGAAGAAAAGAGCCAAAAGGGGGGAAAAAAG
 G G G G G G GA GAACAAAGGAAAGAGGGAGAGAAGGAAAACAACB AAACCGGAAGGCCCCGGAAAAAACCAAAGAAGGGGGG
GGAGCCAAGAGGGGAGGAGGCCCAAAAAAACCGGAACABGA C G G G G A A A A GACC G G G GAA G GCC G GAA GAGGAA G GAA GA G GA
 AAAAGGGGAGGGAGAAGATGAAAGGGGACGGAGGGGAAAGGG A G G CAG GA G GAAACCAAAAAGAGGAGAAACGGAAACAGAATA G G G A A G G A GCCAGAAAAAAGGACGGCCCCCAAAGAGGGAAAG
 GAAGGAAAACAGAGGGGAAAGAAGGGGGGGGAGAAAAAACAA AAACCGACCGGAGCAGAGGGAGGGGCCGGAGAACCAAGAGAG
 AAACAGCGGGAGGAGAAAAGGAAGGGGACAAGGAGAGAGAAG AAACAGGAAAAGGAAAAAAAGCCGGGAGAAAGAAGGGACAAA G A G A A A $\mathcal{A} G G G G G G G G A A A A C C G G G G A A G G A C A A A C A G A C A G G$ G GAAAGGAACCAAAGGGGGGGTTGACCAAGGCCAAGACAAAG GAGGGAGGGGGGGGGAAAAGGGGAAAGGAGGAAAAAAAC GAA
 $G C C C C G G A A G G G G A A A A A G G A G G G A G G G G A A A G G A C A G A C C A$ G C C G G A A A A G G A G A A C A G A G G G G A A A A G G GAA A A G G G G A T T A AAAAAGGCCGAAGGGCCGGGGGGCCGGCAAGGGGAGAAACCA GAA A A G G G G G GAA $A$ A A A $\mathcal{A} A G A G A G G G C C A G G A G A A G G G G G A G A$ A G GAGAAAAGAGAGGAAGCAAAAAAAAAAGGAAGGGAAA GAA G G GAA A A G G G GCC G GAATTAAAACACAGAAGGGACAAAAAAA ACAAAAAGGGGGGCCAAGGGAAAAGACGAAAAAAAAACCCCG G G G A A C C G GAGACAAAAAGGAGCCCAAGGAAGGCCACGAAGA G G G GAGGACAAAGAAAAGGCAAAGGAAGGGGGGAGGAAAGAC C G G G G A GACCCAACCGGAAAAGGAAGAAGCCGGAAGGCAAAG GCCGGGAAAAAGGGAGAGGCCGGAAAAACAAGGGGGGGGGAA $A C C A A G G A A A C C C A A C C G G A A G G A A A G G G G G A A G G G B A A G G G$ GAAGACAGAGGGGAGGAGGCCGGAAAAGGGGAAAAGGGAAAG GAAAAGGGAGAAACCGAGAAACCGGGAAAAAGGGAGGAGGGA CAGAGAGGCGGGGGGGAAGAGGGTTGGAAGGGGAGGGCAAAG G G G G A A G G A G G G G G A C C A G G G G G A G G GCACAC CAA A G A A A A G
 TAAGGCCAGAAGGAGGGAAAAAAGGCCGGGGCCAAGAGGGGA
 A GAAACCGAAGAGAGGAAAACCCGGAGCCGGGGTTAAAAGGG G G GCCAGGAGGGACAAACAGGAAAAAGAAGGGGAAAAGAAAA AAACCAAGGAAAAAAAAGAAGAGAGACGGGAAGAAAGAAGGG
 A G G A A G G A GAGGGGAAAAGAAAGGAGGAACCCCGGCCAAA G G $A G A A A G A G A A A G A G G A A A A A A A A A A G G G G G A A G G A G G G A A G A$

CAGCAAAAAGGGGGGAAAACGGGCCAGGGGAGGGGAAGAAGG

 G G G G G G GCAAAAAGGAAGGCCAAGGAAGGGAAGAAGGCAAAA A G G G G GAGACCACAAAAAAAGGGAACCGAACAGGGAAAGGAG A GAGGGAGGAACAAAAAACGGCCGGGAGAAGAAAAGGAAABA A G A G G A A A A G G A A G G G G G G G G A G G G A A G G A A T T G G G A GAA $A$ A
 C G G A GCC G A A A G G G A G G A A A A A G G G G G C C G G G G C A G G G G G A G GAGACGAAGAGGGAAGGAAGGGGGGCCGGGGACGAGAAAGGG G G G G G G A A C A A G G A G G GCC G G G G G G A A G G G A A
 A A A A G A ACCACAC GAAGAAAAAAGGGAAGGAAGCCGAAAGAA $A C C G A G G A G G G G A G A G G G A C C A G A A G G G G C C G G G G C C G G G G A$ A G GACAAGGGAGGAGAAAAGGAGAGAGACGGAGAAAGGAGGA AAAGAGAAAGGAAAGCCGGGGCCGGAGGAGAAAAAGAAAAAA
 A G G G G G G G G G G A A G G G G G G G G A A G A A G G G C C G A A T A G G A G G G A G G GAGAGGGACCGGGGAAAAGGAACCGGGGGGAAGAAAGGA A A A A A A A A A A A A A A A A A G G A A G G G G G G C C A A C C A A G G G G G G A A A A A A A A A ACCAAAAAAGGAAAAAAGGGGCCAACCAAAAAAG GAAGGAACCGGAACCCCGGGGAAGGGGAAGGAAAAGGTXAAG GAAGGGGAAGGAACCAAGGAAAAAACCTTCCAAGGCCGGGGA A A A G G A A G G G A A G G A A A A A GAAA A A A A A GAACA GAAC G GAAA A A G G A A G G A A A G GAA $A \operatorname{GGGCAAAGGGGCCGGAGGGAAAACAGGA}$ AAAAACCAACCGGCCGGCCGGAAAACAGGGAAAAAGGGGGGG G G GAAAAGAGAAACCAAAAGGAGGAAGCCGGGAGGAAAAAAG GAGGGGACAAGAAGAGGAGAGGACCCAGGAAAAGAAGGACAA
 AAAAAGGCAGGAAGGGGCCAAGGGAAGGGCCGGATGGGAAAG G G G A A A A C C A A A A A A A A A A G G A A G G A A T T A A C C A A A A G G G G G GCCAAAAGGAAAAACCCAAGGAAGGAACCGGGGAAGGGGCCG GAAAAGGCCGGAAAAGAGGAAAAAGGAACGGGGAAAAAAAAA A G G A A G G A A A A G G G G C G A A A A G G G G A A G G A A GAA A G G A A A A C CAAGGAAAAGAGGGGCCAAGAGGCAACGAGATAACAAGACGG
 C G G G G A A G G T T A A A A G G G G G GAAAACCAAAAAAAACCAAGGG GAAGGAAAAGGAACCGGAAAAGGGGCCGGAAAACCAAGAAAG G G G A A G G G GAACCAAAAAAAACCGGCCAAGGAAGGAAGGGGA
 CAACCGCCACAAAAAAGAAGGGAGGAAACAAAAACGGGGGGG GAAAAAAGGAAAACCGAGGAGGAGGGGAAAGAA G GAAGGGGC AAGGGGAAAAACCGAAAAAAGAAAGGGGGAAAAGGCAAAAGG GAAGGGACAGAAAGGGGAATAACGGGGGGCCAAAGEAAAGAA
 CAAA $A \operatorname{G} G A A A A A A A G A A A G G G G A A A G A A A A G G T A G G G G A G G G G$ A A A A A G A A GACAAAGGGGGAAGAGACCAGGGAAAAAAAAGGG GAACGGGACAGCCGAGGGGCCAAAGCAAGAAGGACAGCAAAA AAAACACGGAAGAAAAGAGAAAGAACAAGAAGGGGGGAAAAA GA $A$ A $A G G T T A A G G G G G G G A A A G G A A G G G A A A G G A A G A A C A A A$ $G G A A A A A G G G A A G A G A G A G A A A G G G A G G G A A A A G G A A G G G G A$ GAGGGGGAAGGAAAAAAGGAAAAGAGGAAACGGGGGGGAGGA GAGAAGGGGAGGGGGAACCGGGGAAAAAAGAGAAAAAAACAA A G GAAAAGGGGCCGGGGCCGGAAAAAAGGAAGGGGAAGGGGA AAACCCCGGAAGGAACCAAGGGGGGGGCCAAGGGGGGGAAAA A A A A A A A $\mathcal{A} G G G G G A A G G G G A A A A C C A A G G G G C C C C A A A A A A A$ A A A A A G G T TAAAA A GAACCGGGGAACCAAAAAAGGCCAAAAA A G G G G G G G G G G G G A A A A $\mathcal{G} G G G A A A A C C G G G G A A A A A A C A G G G$ G G G G G G G G G A A A A A A G G G G A A A A A A G GCCAACCAACCAAAAA
 A G G A A A A $\mathcal{A} G G G G G G G C C G G G G G G G G G G A A G G A A G G C C C C G B A$ A G GAAAAGGAACCGGAAGGAAAAGGGGGGAAGGCCAAGAAAG GGGAAAACCAAAAAAAAAAAAAAAAGGAAAAGGAAAACCGGA A G G G GAAAAAAAACCAACCGGGGGGCCCCAAAAGGCCAAAAG GAAGGAAAAAACCGGCCGGAAAAAAAAAAAAGGAACAAAAAG GAAGGAAGGAAAAGGAAAACCAAGGGGAAGGAAAAGAAACCG GGGAACCAAAACCAAGGAACCAAGGCCCCGGCCAAGGGGGGA A G G A A A A A A A A A A G G A A A A G G C C G G A A A A G GAA G G G G A A G G G GAAGGGGCCAACCCCGGAAGGAAGGAAGGGGGGGGAAGAAAG G G GAAAAAAAAGGAAGGAAAACCGGAAGGAAAAAAGGCCGAA A G GAACCGGAAAAAAAAGGAAGGAAGGGGGGGGCCGGGGCCG GAAGGAAGGGGAAAAAAAAGGGGCCAAGGAAAAAACCCCGGG GAAGGGGGGGGAAAAAAAAAAAAAAGGAAGGGGAAGGGGGGG GAAAAAAGGAAGGAAGGCCTTGGTTAAAAAAAAAAAAAACCG G G GAAAAGGGGGGAAAAAAGGGGGGAACCAAGGAAAAAAAAG GAAAACCAAGGGGAAGGAAAACCGGAAGGGGCCGGAAAACAA
 GAAAAAAGGCCAACCAAAAAAAAGGGGCCGGGGAAAAGAAAC C G G A A A A A A G G A A G A A A A A A A A A A A A A G G A A A A G GAA G G C C A AGGAAAAGGGGGGAAGGAAAAGGGGGGAACCAAGGGGAAAAA $A C C A A A A G G A A G G G G A A A A A A C C A A A A A A G G A A A A C C G G G G G$ GAAGGAAGGGGGGAAAAAAAAAACCAAAAGGGGAA GGGGGGA A $G G G G G G G G A A A A A A G G G G A A C C G G G G A A G G G G G G C C C C G G G$ G G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A A A G G A A A A G G C C A A A A A A G G G A A A G G G$ GAAAAGGGGAAGGAAGGGGCCGGGGGGAAAACCAACCAAGGG G G G T T G G G GAA $A \operatorname{GGG} \operatorname{G} A A G G A A A A A A G G G G G G A A G G G G G G G G G$ GAAAAAAGGAAGGGGAAAAAAGGGGAAAACCGGGGAAGAAAA AAAGGAAAAAAAAGGGGAAAAGGAAAAAACCGGGGAAGAAAA A G G G G G G A A G G G G C C G G G G A A G GAAAA A G A A C C A A C C A A G G G G G G A A $\mathcal{A} G G G G G A A A A A A G G G G A A G G G G G G G G A A A A A A A G G G G C$ $C G G G G C C G G G G A A A A A A G G G G A A G G A A G G G G A A G G A A G G A A A$
 $A G G A A G G G G G G A A A A G G A A A A G G A A A A G A G G A A A A G G G G G G A$ A A A G G G G G GAA $A \operatorname{GGG} G A A G G A A A A A A G G A A G G G G G G G G A A G A A$ A G G G G A A A A A A A A G G G GC C A A G G G G G G A A A A G G G G A A G G G G A TGAAGCCGAGGATGAAGCCGGAAAAGGAAGGAA GAAAGGGGG GAGGAGGAGAGAGAAGACAGGACAAAAGAGGAAAAGGBAAAG GATGAAAACGGGGCATTGGAAGGCCAGGGAAGGGGCCAGAAG A G GA GA A A A GAAA A GAACCAGAAAAGGGAGAGAGAGGAAAAC CAACCGGGAGAGAAGAAAAGGAAAGAAGAACAGTTGGGGGGA A A A A A A A A A G G G G A A GAAA A G GAAAAAAA GAAGGAAAAGAGAC CAACCGGCCAAGGGGGGGACAGAAAGGCCAGCCAGAAAATAA GAAGGAGAAAGGGAAAGTTCCAAAGAAGAAAAAGGAAAAAGA G G G A A A A A A A A A G GAA GCCCCAAAAGGACGGAATACAGGGGA G G A A C G G A A G G G G G G A G A G G G A A C A G G G G G G G G G G A C G A G G A AAGAGGAGAGAGACCGGCCGAAGAAGAAGAGAGAAAAAAGGC CAACCAAGGGGAGCCCCGGAGGGAAAAAAAAGGGGAAGAAGA A GACCCCAGAGAGGAGGTTACGAGAGGACACCAAGCAAAACG GAGGGCCCCAACCGGAAAAAAAGGAAGCACAAGGAAGAGGGG GAAGAGGGAGGAACCAAAAAAAAAAAAGAAAGAAGGGAGCAG AAAGAAGGGCAAAAAAAGGGAACAAGGGGGGAGGAGGCAAAC C G G G C G A A G A A A G G G G G G G A C A G G C T T G A G G G G A A G G G G G G G G G GAAGGAAAAAAGAGAAGGGGAAGGGAGAAGGCCAAACAAG $A A C C A A A G G A A G G C C G G G G G G A A C C G G A A A G G G A G G G G G G G C$ A G G G G A A A ACCAGAAAAAGAAAAGGAAGGCCGAAAGGCAGGC C G G TAA A CAG GAGAAAAGGGGAAAAAAAAAACCAA GAAAGGG G G G C C A A A G G A A G G G GAG GAGAGGAGGCCAGAAAAAGCAAAA GAAGGGGGGAGCAGAGGAAAGACAGCCGGCCAGAAGAGGGGA

A A A G G GAAGAGCCGGAAAGCCGAAAAAGGCCAAAACAGGGAC CACGGGAGGAAGGAAGGGGAAACAGGGAGAACCAGGGAGABA G G GAAA A A GAGAAGGCCACGGAGAAAAGGAAGAAAGGCCAAA A A A A A G GAA A GAAAAGGGGGGGGCCTTGGGGGAAAGAAGGGG GAACCAAAAAGAACCAAGGAGCCAACCCCCCGAGAGACCGGG GCAACAAGGGGGAAAAAGGGGGGGGGGGGCCAAAGAGGGGAC C C CA GAA $A$ A A A C CA A GAGGGAGAGAGAAGGAAC GAAA GAA GA ATAAAGGAAGGAGGGAAGGGGGGAGAGGAACAGCAACAAGGG
 GAAGACCGGAGCAAGGGAGAGAGAAGGGAGGAGGGAGGGGAG GAGCCCAGAAAAAAAAAAAAGGACCGGGGAACCCCAG
GATTGGAAAAAAAGAAAAAAAAAACAAAGGGGAAGGAAGAG GACCAGGGGGGACGGGGGGGAAGGGGGGAAGACCAACBAAAC
 GAGAGAAGAGGCCGGGACAGAAAGGACAAAAAGAAGACCGGG G G G G G G G G G G G A GAGAAGGGGCC G G C C C G G CAC C G G G G G G C C A A A GAGGGAAGAGGAAGAGAGGAAGGAGAAGAGACAGAACAAA GCCAGGGGGAAAGAAAAGGAGAACAGGGGGGGGGGGGGAGGG GGGCCAAAGGGAACCTTAAGAATAGAAATAAAAGGAAAAAAG G GAGGGGAGGAGGGGGAGGAGAAAGAACAGGAGGGCCGAAAG GAAAAGGGGAGCGCCCCGGAAGGAAAAGGAAGGAGGACAGAA GCAGGGGAAACGAGGAAGGCCGGGGAAGAGGAACCAGGGCCG GAAGGAAAAAAGGGGGGGGAAGGCAGAAAAGAGGAGAAGCAA AAACCGAAGAGAAGAGAGAGGAGAGAAAAGAGGAGGGAAGAAA GAAAAGAGGGGGAGGACGGCCAGAGACAGGGCCGGAGAAGGA A G GAAGGAAGGAGAGCCGAGGAGAGGGAAGGAAGGAAAAAGA AAAGGCCTTCCCCAAAAGGAAGGGGAAACAAAGGGATAAGGG GAAAGAAAAGAGAAGAAAAAAGGGAGGCAGAGGGGGAAAGAA A A A A A GAAGCAAGGAAGGGCCGGGACCAAGGAAAAAAAACAA A GAACCCGAAAGAGGCCGAAGGGGGGGGGGGAGAGGGGAAAA A G G G G G G A G G G C C G G A G G G G A A G A G G G C C A G G A G A G A G G C A A AAAGGGAAAGAGGGGAAAAAAGGGACAAAGAAAAGGGGAGGG GAAGGAAGGAAGAAAGAAGCGCCAAAGGAAAAGGAAAAAGGG GAAAGGGAGGAGACCGAGAGGAGAAAGGACAAGGGGAAACCB G G G A A A C A A A G A TAA $A \operatorname{A} G A A G G A A G A G G G G G G A A A G G G G A A A G$ GAAAAAAGGCCAAAACCGAGGGAACCACAAAAACCCCGAAAG GAAAGGGGGAAGGGGAGAGAAAGAAAAGAAAGGAGGAAAAAG GAAGGAACCGGAAGAAGAGGGGGAAGGGGAAGGCCAGAGAAG A G G GACAGGGAAAAATTAGAGAAGAAGAGAAGGGGGGAAGAA CAAAACCAAAAGGAAAAAAACAAGGGGGGAGAGAGGGAGGAA GAAAAGGAAGCAAGAGGGAAGGGGAGGAAAGAAAAGAAGGAA A A A A A G GCCAAGGCCCCGGGGAAGGGAGAAGGGAAGGGGCCC CAAAAAAGGGGAAAAGGGGGGGGAGGGAAGGGAAAAAAAGGC C CAA $A \operatorname{G} G A A G G A G A G A A G G G G G G G G G G A C G G A A A A A A A A G A A$ AAAGGAGAAACATGGCCCCGGGACCAACAGACAAGAAAATAG
 GCAGACCGGGGGGGGGGAAGGAAAGAGACGGGGAAAAAAAAG GAAGGGGGGAGGGGGAGTTGAAGAAAGAGGAAGGAAACAAAA A A A A A A G A A A A A A A A A A GAGGACGCCCGGAAGGAAAAGAGAA GCAGGGGAAATAGAGAACCGGGAAGCCCCGAGGGGACAAAAG A G G G A A A CACAAGAAGACAGGGAAGAAGATAAAAAAAAGGAA $A C C A G A G C C G A C C A A A A G G C A A A G G C A A G G G G G A C A G G A$ A A A G G G A A G A A A G A C A A A A G A A G A A C C C C C C G GCCC CACA G C AGGAAAAAAGGTTGAGGGGCCGGCAGAAGGAAAGACAGGGGA AAAGAAAAAGGAAAAGGTTGGAAGGAGCCAAAGAAAAAAGAA A GAGGGAGGAAGAAAGGGGGGAGAGACAGGGAAAAGGAAAGA ACAGAAAGAAGGGAGAAAAACCCAAAAAGGGAAGAAAAAGGG GAAGGAAAAAAAAAAAGGGAAAAAAGGAAAAAAAAAAAAAAA $A A A G G A A A A A A G G G G G G G G G G G G A A A A G G A A G G G G G G A B A A G$

GAAGGAAGGAAAACCGGAAAAGGAAAAAAAAGGAACCGGGGG G G G A A T T G GAA $A \operatorname{GA} A A A A G G G G G G G G G G A A G G A A A A A A A A A A A$ AAAGGCCCCGGAAGGGGCCGGAAGGAAGGAAAAGGGGCAAAA AAAGGCCAAGGAAGGAACCAAGGAAAAGGAAGGCCGGGAAAA AAACCGGGGGGGGAAAAGGGGAAAAGGCCAAGGCCAAGGGGA A G G A A C C T T G G G G C C A A G G G G G G A A G G G G G G A A G G A A A A G G G GCCGGAAGGAAGGGGAAGGTTAAGGAAAAGGGGAAAAGGGGA A A A A A A A A A A A A A G GAAGGGGAAAAAAGGAAGGGGGAAAGGA A G G A A G G G GAA $A \operatorname{GG} \operatorname{G} A \mathrm{G} G A C G G A G A A G G G A A A G A A G G G C A A A C$ AGGACGGGAAAGAAAGGAAAAGGAGATAAGGAAGGGGGGGAA A G GCCAAGGAAACGAAGCCGGGGGGGGCCGAGGAATTACGGG
 TGGGGCAAGAGAAGGCAACGGAAAACCGAGAAGGGAGAAAAG GAGACTTAGAAGGGAACGGAGAAGGAAAGCAAAGGAGGAGAC C GAAACGGGGGGAAAAAAAAGAACCAAAAGGGAGGGGAAGAC CAACCGAGGGGGGAGGGAGCCAGAGGGGGAGGAGGAGGGAGA A GAACGAGACCAAAAAGGAGGAAGAGGAAGACCGGAAGAABA AAAGGAAAAAGACGGAGGAGGGGTAGGAAGAAGGACCAAAAA AAAGGGGTAGGGGGAAAAAGGGGAAAGCCAAGGGGGGAAAAC C G G G G A A G GAACACATAACAGAGAAAGAACCCCACAAGBGAC CAAGAAGGGAGGGAAAAAGTAAAAAGGAAGGGGAAAAAAAGA A G GAA $A$ A $A$ ACCA $C A A C A A G G G A G A A A G G A G G A G A G C C G G G G G$ G G G A G G G G A A G GA $A \operatorname{G} A A A A G A A G G G A G A A G G G G G A A G G G A A A A$ G G A G A G G G G G G A G G G G A A G G A A A A G A A A A A A G G G A C A G A G G G G G G A A C A G A A G A G G G A G G G G G A A A A A A A $A \operatorname{GA} A G G G G G G G G G G A$ A G G A A T T G GAGGGAAGGAAGAAAAAGGAACCCAAAAGAGCCA AGAGGAACCAGCAGATTAAGAAAATTACCAGAAAAGGAGGAG GAGAAAAAAAGAACCGGTAACAGAGACAGTACCGGGACAABA G G GAAAAAAGAGGAACCGAAAAACCAAGAAAAAGBAAGAAGG GAGAACCGGAAAAAAGGGGAAAAAAAAAAGGGGGGGAAACAG G G G G G G G A A A A G G A A C C A A G G G G G G G G G G A A A A G G G G A A A A G GAAAAGGGGGAAGAAAGAAGGAACCGAGGGGAAAAGGATACG $G C C G A C C A A A A A G A A A A G G G A A A G G G G A A A A C A G A A C A G A G G$ G G G A A A G A G G G A G A A A A G G A A A A G G A G CAAAGGAAAAAATTA

 GAGAACCGGGAAGAAAAAGAGGGAAAAGGGGGGGGGAAGGGG G G G G G G G G GAA $A \operatorname{GT} A A A G G A A G G G G A A A G A C A A G G G G C C G G A$

 GAGAAAAGGAAGGAAAAAACCAAAAGGAAAGAAGGCCAAAAA A A GA $\operatorname{G} G A A A C A G G A A A A C C A A G G G G G G A A A G G A A G A G A G G A A$ AGGGGCCAAGGTTGGAAAAAAAAACAAAAAGAGCAG GAAAAC CAAAACAGGGGGGGGAAAAGGAAAACCAACCGGTTAAAAAAC C G G A A A A A A G G A A C CAAAA A G G G G G A A A A A A G GAAAA A G G G A A G G G G G G G G C C G G G G A A G G G G G G C C A A A A A A A A T T G G A A G G A AAAGGAAAAGGAAAAAAAACCGGGGGGGGAAAACCGGGAABA AAACCAAGGAAGGAAAAAAAACCCCGGGGGGGGAAGGAACAA AAAGGAAAAAAAAGGCCCCAAAACCGGGGCCGGCCCCAACAG GAACCGGAAGGAAAACCGGAACCGGGGGGAAGGGGGGGGGGG GCCGGAAGGAAGGGGCCGGAAAACCGGTTGGAAGGCCGGGGG G G G A A G G A A G G G G G G G G G G A A A A G GAAAAAAAAAAAAAAA A A $A$ A $G C C A A G G A A A A A A A A G G G G G G A A G G G G A A G G C C G G G G G A A A A$ AAAGGCCAAAAAAGGCCAAGGCCAAGGCCAAGGGGGGAAAAG G G GAAGGAACCGGGGAAAAAAAAAAAACCAAAAGGGGCCGGG GAAGGAAAAAAGGAAAACCGGAAGGAAAAAAGGAAAAGAAAA AAAGGAAAAAAAAAAAAAAAAGGAAAAGGAACCCCAAGAAAC A A GCCAAGGGAAAACAGAAAGCCGGAAAAAAGGCCAAGAA GA $C A G C A G A A A A G A C A G C C A A A A G G C C G G A A A G G G G A G A G G G G A$

A G G G GAAGGCAAAGGAGGAAAAAAAAAAACCAAGGAAGGCCG G G GACA $A \operatorname{A} A C G G G G G A A G G A C A G G G A A A G G A G C G A A C C A A C A$ AAAAAGAGAAGGGAGCCGGAAAACAGGAAGGGGGATTGAAAA $A C C C C G G C C A G G A G A G A A C A A A A G G A A A A A G G A A A A A A A G A G$ A G G G G T T A A A A A A G G G G GAGGAGGAAAGGGGAA G G CACA G GA A A G G G G G G G G GACC G GAAAACAGACGGAAGGAAGGCCGAAAGAA A A C G G G A A A G G A A G GAGGGGAAAAGACGGAAAAGGAAAAAAA AAAAAGGGATTCAAAAAAAGAAGGGAGAAAAACATGAAACCG GAAGAAAGAAAGAAGGGCCCCGGTTGGAAAAAAAAGGGGGCA G G GAAAAGGAACGCCAGGAAAGGGGGGGAAAGGAAACAAGAT TAAGGGGAAGGGGAAGGGAAAGGGGAAGGAATTGGAA
GAAAGGAAGGCCGGAAGAAAAGAGGGGGAACCGGAGAACCA A A GCCAAAGCCGACCAAGGGGAAGGGGAACACAGAGGGGGAG G G G G A A G G GAAACAGAGGAAAGGAAAGAAAAAAGGAAGAAAA G G GACAAAGGGAAAAGGACGAGGCCAAAAGGACGGAAAATTG G G G G GAAGGAAAAAAACGACACCAAGGGGGACCAGAACAAAT TAAAACCGGAAAGAAGAGGAACAGAGAAAAGAGAGGGAGCAG G G G G A A A G GAAAAGGAAGGGAAAAAGGGGAGGGGAGAGAGGG AAGCCAAGGGGAAAACCCCGGGGACGGGAAAAAGGGGGGGGA A A A A A G G A A A A G G A A G G C A A G G A A GAC G G G G G G T T A A G G A A GAGGGGGAAGGAAAGAAAAGGACAAGGGGGGGGAAAAAAAGA
 GAAGGAAAAAGGGCCAAGGAGAAAAGAACAGAAAAGGGAAAG GAAGGGGAAAGGGCCGGGGCCGGAAGGGAAAAAAAAGAAA GA G G G G G G G A A A A G G G G C C G G G G A A G G G GAA $A \operatorname{AGGGGGGAAACAC}$ C C A A G A G G A A G A G A CAA A G TAGAAAGGAATAAGTTCAAGAC G GAGGGAAGGCCGGAACGAGAAAGGGAAAAAGAGGAAAAGGGC
 A A A G G A A A GAA $A \operatorname{A} A A G A A A A G A A A G G G G G G G G G A A T T G A A G A$ G G GAGGGAAGGGAAACCGGAGGGCCGGAACCAAAAGAAAAAG G A A A A A G A C A A A A C C G A A A A A A A G G A A ATCCAA G GAAC GAAC $C G G G G A A G A C C G G G G G G G G C C A A G G G A G G G G A A A A G A G A G A A$ C T T GAA A GAAAAGAGAGGGAGAGGGAAAGAACCAAAAAGAAG A GAACCCGACAGGAGGGGAAGAGCAAAAAAAAAAGAAAAGAG A A C C A G G G A GAGGAGGAGCAAGGAAAGAGAGAGGGGAAAGAA A G A G A A A G G G G G A A G G A A C G A G G G G A C G G G G A G C C G G C C G G G G GAGGGGACAGCCGAACGAAAGGGGCCAGGGGGGGCACAAAA $G C C A A A G G C A A A A G G A A A A A A C C G A G A G G A A A A C C G G G G A G G$

 C G G G GCCGGGGAACCGGAAAAAAGGGGAGAAGAACCCCCGGA ACAAAAAAGGGAAGAGGAGAAGGAAGGAGAGGAGGAACAAGB $A C C A G A G G G G A G A A G A G A A A A G G A A A A G G G G A A A A A A G G G G G$ G G GCCAAGGAAGGGGGGGAAAGGAGAGGAAGAAGAGAAAAAA AAAGGGGAAAAAAAAAAACCCAAGGGGGAAGAGGGCACAA GA CAAA A A G G A G G A GCAGACAGGAGGGAAGGAGGGAA GAGAGAA A A C G A G A G A G A A A G G C C A G GAGAAAGGCCGGGGAAAAAAAAG GAAAACCGGGGGGAAGGAAGGGGCCAAAAGGCCGGAAAAGGG G GAAAAAGGCCAGAGGGAAGGGGGGGGAAACAAGAAGAGAAG
 AAAGGAAGGAAGGGGGACCACAGGAAAGGAAGGCCAAAACAA AA $\operatorname{A} A A G A A C G G A C G G G G G A A A G G A C G G A A A G C C G G A A G A G A A$ A A C G G A G G G A G A A G GAAGGTTGGAAAAAGAAAAAGCAAAA GA AAAGGGGCCACGGGAAAAAAAAAAAGGCCAGGGCCGAAAAAG GAAA A G G G G G A GAA A A A G G A GAA $A \operatorname{A} G A G G G C A G A G G G G A G A A G$
 GA $A$ A $A G G A G G G A G C C G G A A A G G G G G A A G G C C A G A T G G G A C C A$ AAAAAAAGGGAAAGGGGAGAAAGAAGGAGAAAAAAAAAACAG GAGGGGGAGAAAAAAAGAAGGGGGAGGGGGGAAAACCGGCCC

CAAAAGAGGAGAAAGCAAGGGAGAAAAAAAAAGAGGGAACCA GAAAAAGAGGGAAAGAAAAAAGGAAGAGACACAAAAAGAAAA G G A A G A A A G A G G G G G G G G G A G G G A G G G G G A A G G G G A GA G C C A AAACCGAGGGAGGCAAAGGGAAAAGAAACGAAGCCAAAAAAG AAC $\mathrm{A} A \mathrm{~A}$ GAAAAAAGAGGGAGGGGGGGGAAAAGGAAAAAAGGG G GAGACCAGACGAGGACGGACAGGAAGAAGGAGGAAAAAGAA A G GAGGACCAAGGAGAAGAGACCAAGAAAAGGGGAAAAGAAA CAAGAAAAAAAGAGGTAGGGGGGAAACGGAAAAAGGGGAAAC
 A G GAGAAAAGGAGAGGAGAAAGAAAAGAAAAGAAAGGGGGGA C G G G G G GCCGGAAAGCACCAAAAGGAACCAAGGAAAGAGGGA A A G G G GACAGACCCCGGAAGGAGAGGGGAGACCATAAGGCCA
 GAAAAAGAGAAGGAAAAGGAGAAGGAGGGGGGGGGGAGGGGG GAATTAAAAGGGGAACCAAAGGGAAACAAAAGGAAAAAAAAG A A A A A A A A A G GAAAAGGAGAGAAAAAAAACAGGCCGGAAGAG AA $A G G G G G A G G A A G G A A A A A A A A A G C C A A G G G G A A A A A A A A G$ GAGAGATAGGGGGAAAGAAAAAGAGAGGATTGACCAACCCCA C GAGAAGAAAGGGGGAAGGCCAAGGAAGGGGAAGGCCCCGGA A A A A A A A G G G G A A G GAAAA $A \operatorname{A} A A A G G G G G G G G A A G G G G A A A A G$ G G GAAGGAACCGGAAAAGGAAAACCAAAAAAAAAAGGGGCCA A A A A A A A A A A A A A G G G GCCGGCCAAAAAAGGGGGGGGAAAAA AAACCGGAAGGGGAACCGGGGAAAAAAAAGGAAGBAAAAGGG GAAAAAGGGAGAAGAGAGAAAGAAAGGACCCAAGGAGAGGGA A G G G G A A G G G G A G A C A A A A A A A GAGC GAAAA A GAACCAAG G G GAAGGAAAAAAGGAAGGAAGGAAAAGGAAAAAACCAAAAAAA A A A A A A A G G G G G G G G G G G G A A G G G GAAAAAAAAAACAAAGAA A G GAAAAAAGGAAGGAAGGGGGGAAGGGGAAAAAAAAGAAAA

 GAACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGAAAGAA AAGGGACAACACCGGAAAGGGAAGGAAAAGGAACCGGAAGAA A G G A A A A G G A A G G G GAAAA $A \operatorname{A} A A A G G A G G G G G G G G G C C C A G A A$ A A GCCAGGGGGAGAAGGGGGGAGAGGGGAAGAGCCGAAAGGC C G G A A G G A A G G A A A A $\mathcal{A} G A A G G G G G G G G G G G G A A A C G A A A G A A$
 G GAGGGGAAAGAAAGCAGACAAGGAAAGGAAAGAAGAAAACT T GAAA $A \operatorname{A} A A G G A A A A A A A G A A G A G A G A A G G G G G G G G G A A G A G$ A A A G G A A A A A A G G GAAA $A \operatorname{A} A A A A A C A G G G G C C G G A A C C G G G G T$ TAAAGGGCAAACCCAAACCAGGGAGGAGACAGGCAAGBAGAC AAGAAAGAAGGGGAAGGCCACAACCGAAAAATTGGAAGAAAG G G GCCAAAAGGAAAACCAAGGGGAAATAACCGACCGGAAAAG GAAAAAAAGAGCAGGAGCAAGGGGGAAGGGGGGAAAACCGGG CAGGGAAAACAGGGGGAAGAGGGAGGAAGGAGAATGGAGGAA A G G A A A G A GA G A GA A G G G G A A A A G G A A A A A A G G G GAC GAA C G A GAGGAACCAAAGAGAAAGGGAAAAAAAAGGAACCGGAAAAG C C C A A C C A G G GCAA A A A A A CA G G GAGAGCAGAGGGAAAAGGG C G GACAGCCAAAAGGGGGGAAAAGGAAAAGAGGAGAAAAGGA A G G G G G G GAA $A \operatorname{AG} \operatorname{GA} A A A A G G A A C A G G G G A A A A A G G A A G G C C G$ GAAGGAAGGAAGGCCGGAAAAAAAGATGAAAAAAACCBGAGA GCAGGGGAAGAGAAAAGCCGGAAAGAAGGAAAGGGGAAAAAC C GCCACCAGAAGGGGGGGGAAGGGGGGGGACGAAAGAAAAAG GAGGGAAGGGAAAGGGAAGAAAGAAGGACAGAGAGCAGAAGG GGAGCCCCAAAAGCAGAGGAACAAGAAAAAGGGGGGGCAAAA GAAGGAAGAAAAAAAGGAAAGGGAGAAAGAACCAAGGAAGGG $G C C G G A A G G A C G G G A A G A A A A G A A A A A G G G G G G C C G A A A G G G$ $G T T A A G A A A C C G G A A A C A A A A A A G G A A G G G G G A A A A A G A A G G$ $A C C G A G G A G A A G G A A A A A T C C C C G A A G G G G G G G A A G G G G G G A$ $A C A G A C A A A A C G A A C C G A A A A C C A A C G A A G G A A G G G G A G A A A$
$A C C C C A A A A A A G G A A A A T T G G G G A A A A A A G G G G G G A A G G G G A$
 A A A A A C C A A A G A C G A CAAAGGGGCCGGGGCCAAGGACGAGGA ACCAAAGAGAAAGCAAAAAAAAAAAAGAAAAGGGAAGAGCCA A A A A C C G A GAGGGGAAGAGCCGGGGGGGGAAAAATAGGAAAA
 A G G A A GA G G G G G G A A A A A A A GAGCCTTAAAAGGGAAGAAAAA AAAGGGAGAGAAGAAACACGAGACCAAAGAGGAGGAGGGGGA
 G G GAACCGAGAGGGGAAGGGGCCAAAACCGGCCCCAAAAAAA G GAGGGGAACCGGTTACGGCCAAGGGGGGGAGAAAAA
GAGAAAAGAAGAAACCGGGGGGAAAAGGGGAAGGGGGGAAA G GAA A GAGAAGGACGAGAAGGAAAAGAAAAAAGGGAAAACCG G GAGAGGAAGGAGGAAAGAGGGGAAGGAGGGAAAAAAAAAGA A G GAAAAGAGAAGCAAGGGGGAGCCCCGGAAGGGGAAACAAA CAAA $A \operatorname{A} A T \mathrm{~T}$ T G GAAGGAAGGGGAAAAAAGGACGGGGGGCAGGG
 GAAATAGGAAGGGAAAAAAAGAGAAGGAGAGAGCCAAGBACB AAGGGCCGAGGAACAGGGGGAAAAGAAAGAACCAAGGGAAAA A G A A A G A G A A G G A A A G G G G A G A A G G G G G G A A A G G G G G C C G G A AGGAAGGAAGGGAGGGGGAGGGGCAGGAAAAACCCAGAAGGA
 G G G GAGGCAAAAAGAGGAAGGAAAAAAAAGGAAAAGAAAGAA A GAGAAAACAGGAGGAAAGAAAGCAAGAGAGAGAGCCGGGGG $G C C G G A A G G G G A A A A A A G G A G A A G A G G G G G A A A G A G A A A A A G$ AACACACGGGGGGTTGGAAGGGGAAGGAAGGAGGGGGGGGGC C G GAGGGCAGGGGGGGGAAAGCCAGAAAACCAAAAGGAAAAA A G A A A A G A A G G A A A GCCGGAAGAGGAGGGAGAGAAAAGAAAA GAAACCCGGAACAGGAAGGGAGAGGAACAGGGGACGAAAGGG GAGAGAGAAGGAAGGGGAGGAAGCCAGGGGGACGGGGGAGAG GAAA A A A G GAACCAAGATTAAGAGGGGGGCCGGAAGAAAGGG G G G G GAAAAACACGAAGGAAGGAAGAGAGAAGGAGCAAAGGG GAAACGGAAGAACGGAAGGGGCCGGGGCAAAGGGGGGGGCCC C G G G G G G G G C C A A C C G G C A G A G G G G A A C C A G A G G G G G G G A G G GCAAAGGGGAAAAGAGGGGAGAAAGGAAGAAGAGAGAACCCG GAAGGGGAACCCCGGGGGGCAAGGGGGAAAAGGAAGAAAAAA A G G G GCAA GCCGGGGAAGGGAACGACCGGACGAAGGGGGCCG GAGGGGGAACCGGGGAGCCGGAGAGAGAAAAGGAGACAGAAA A G G G G G A A A G G G G C C G G A A A G C A A C A G G G G G G G A G A A G G G G G
 G G G GAAAACGGGAAAACGGGAGAAAACAGAAGAAAGAAGGGG GACAAGAAGAGAACCGAAAGGAAGGGAGAGAGGGGAAGAAGA G G GAGAGAGTTGGAACCAAGAGGGACCAAAAGGAGCAGACAA G G G A A A G G G G G A A G A A A A A G A G G A G G G C A G G G G T A A A G G G G G GAGGGGCAAGGGGAGGGCCGGAAGGAGGGCAGGGAACCAAGG
 A G GAA A A G GAAAAAAGAGGGGGAAGGAAGGAAAGAGAAAAAA T G GCAAAAGAGAAGGGAACGGAGGGAAAAGGGGAAGACAGAG CAGAGAGAAAAAAAAGGGGCCAAGGCCGAAAAAAAGGAAAAG A A A A C G G G G G G G GAAA $A \operatorname{AGGCAAACAAAAAAGGGAAAGACAAA~}$ TCCAGAGCAGGAGAAGAAAAAAAGGGGAACGAAAACCGGGGG G G G G GCAACAAGACCGAAAAGAAAACCAGAAGGGAAAAGTAA CAGAGAAGGAAAGAAGAAAGGAAAAAACGCCCCAAGCAAGGA C GAGAGGACAAGGGGAGAAGGAGAGAACCGCAAAAAAGGGGG $G C C A G A A A A G A G G T A A A A A G A G G G G A A A A G G A G A A G A G A A A A$ AAAGAGGAACAAAGGGGGAGAAAAGGGAACCAAAAAAGGGGG GAAGGCCGACCAAAACCAAAAACAACAAAAGAAGGAGGAAAG
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AAAGGAAAAGGCGGGCACCAGAAGGGGGGAAGGGGGAACAGA $G C C A A A G G A G A C C C C A A A C C G G A A A G A A A G A A A C C A A G G G A G$ AAAGAAAAAAGGGAGGGCCCCCAAAGAGGGGGGGGGAAAGAA GAGGAGGGGGGGGGGGAAATTGGGGAACCAAAAAAGAAAGAC C G G G G A A G GAA A GA A T TAAAAAAAGGAAAACCGGGGCCAACAA ACCGGAAGGAAAAGGGGAAAAAACCGGGGAAAAAACCGGCCG G G G A A A A A A G G A A A A G G A A G G G G G G G G G G C C A A A A A A A A G G A A G G G G G G G G G G A A A A A A G G G G A A A A C C G G G GCCGGAACAAAA $A C C A A G G A A C C G G G G A A A A G G G G G G A A G G A A C C G G G A A A G G G$ G G G G GAAGGAAGGCCGGGGGGAAGGGGAACCAAGGGGCCGGG G G GCCAACAAAAGAGACGAAGGGAATTAAACAACAAAAGCAG G G A A A A G G GCAA G GACACCAAGAGAAAAGAGAGGAGAAACAA C C C G A C A A A G G A A GAGGAAGGGGAAAAGGAGAGGAAACAAAC CAAGGACGGGAGACCGGAGACCAGGGAAGACGGAAAAGAAA G GAAGGCCGGAACCAGGGAAAACCGGGGAACCAAAAGGCCAAG A A A A A GAGGAGAGAGGAGGAAAAGGAAAGGAAAAATTCAAAG A G G G G A A A A C C A A A A G GAAA A GAGGAGAAAAAGAGAA GAA GA CAGGAGAGGGAGAGAAGAAACAGACGGGGGGTTCAGAAAAAC CAAAAGGAGCCAAGGGGACAATAGGGAGACCAAAAGGCAAGA G G A A A A A C C A A A A A A A A G G A A A A A A G G G GACA GA G G G G GAC G GAAAAGAGAGGGGGGGGGGGAAAGAAAGGAAGGGGAGAAAAA A G G G G GAA ACCAAAAACAAAAAAACCCGGCCAAGGAAGAGAG G G G G A GAGGGACCACGAAGAAGGAGGGCAGAGGAAGAGAGGG G G GAA A T $T$ G GAAACAGGGAGGAACGGGGAAGGGGCCCCGAAAA A A A A A A A CCGGGGAGGAGAGGAACCGGGGAAAAGGAAAAAAG GAA A G G G G GAA $A \operatorname{G} G \mathrm{G}$ GCCAAAAGGAGCAAAGGGGAGAAGAAGA AAACCAGAGGACAAAAAGGAAGGAAGACACCGGGAAAGGCCG ACAGGCCAACCAGGAGGAGAGGGAGGACCGACACAGAGAATA GAGCAGAGGGGGGAAAAGAGAAAAGCAGAAGGAGAAAAACAA GAAGGCAATAAAGGAGGAGCCAAACACAGGGCCAGAAAGTAA GAAAAAAAGGGGCAGGGAGAAGAGAGGGGGAAAGGAGGAGGA A G G G G A A A C A A A GAAAA A A A A G GAGGGGGAAAAA $A$ A A A A G G G A AAAAAGGAAGGAAAGAAAAAAAAAACCAAGGGGAAAACAAAC G GAAAGGGGAAGGGGCCAAGGGAGGGAAGAAGGAGAACAA GA GAGGGAAAGAGGACAGAGGGAGGAGAGAACCGGAAAGTXAAA G G G A A A A G G G G G G G GAAAGGGAACCCACCAGAAGGAAAACCG G G G G GAGGAAACCGGGGAAAGGAGGGGACGGAAAAAGAAAAG A GAGAAAAAGGAAGGGGAGAGGGAAGGGGAAGACAGAAAAAG GAGAAGGGGAAGGAAAAGGAGAGGAGAAAAAGGAAGGGACAA A G G A A A A T TAA $A \operatorname{G} G A \operatorname{A} G A A G G A A A A G G A A A A A G G G G G T X A G A$ A T A G G G G G G G G A A C C A GAAA A CA A A G G GACA A G G G G G G A C C A G G G G G G G G G G A A A G G C A G G A A A A C G GAC C GAAAAA A A GAC C C $C \subset C A G C A A G A G C A A G G G A A G G C A A A C C G G A G C C A G G G C A G G G$ G G G A A G G G GA G G G G G A G A A A C A A A A A A G G G GC C A A G G A A G G A A A A GAAAGAAGAACCGAAGCAGGCAGGGGGAAAGAGGGAAAG G G G A G GCA G GAGACCGAAGGGAGAAAGGACCGGGGAAAAAAA A G G G G CA G GCAC CAA G G G GAGGGC C C C A A A A A C C C C G A G G G A G G GACCGGGACCGGACCCGGAGGGGAAGAGCCACCAGGAGAC G GAAGGGACCCAAAGGAAGAGGAAGGGGAGCAGAGGAGGAGAA G GAGAGATTGGAGGGGAAAAGGACGGACAAGAGCAGAAGAAA GAAAAGGAAAAGGAGAGAAGGAGGGAGGAGGAAGAGGAGAAG GAAGGAAGAAACCAAAAAAGGGGGGCCGGAAGGAGGAGAGGG G G G G G GAA $A \operatorname{G} \operatorname{A} A A A A A C C G G G G A A A A G G G G G G G G A G G A A A A G A$ A G GAA $A \operatorname{GCCA} A G G G G A A C A A A G G A G G G A A G G A A A G A G G A A A A$ A A GAGAGACGGAAAGGAGGAAGAAGGGGGGGCCGGGAGAACG G G A A A A A A A A GCCAGGGAAAAGGTTAGGGGGGGAAGGCAA G G GAAAAAACCGGGAGACCCCGGAACCGGGGAAAAGGGGAAGAA A G A A G A C G G G A A A G G G G G G GAGGGGCCAAGAGAGA GAAAG GA AAACAAAGGGAGGAGAAAAGGGGGGGGAAAAAAAGCCAAAAC

CTTGGGGAAGAGAAAGGCCGGACAAAAAGCCCAAAACGGGGC C G G G G G G A A C C G GAAA A A A A GAAAAAAAACCAAAGCAAAG GA A G G G GCC $C$ G $\mathcal{A} G G G A G G G A G G G G A C A G G C C A A G G A G A G G A A A G$ GCCAAGGAAAACGAGGAGGCAAAAAAAAGAGCAAAAAAAGAA $A C C G G G G A A A G G A G A C C G G G A G G G A A G C A C G G A G A G A A A G G A$ AAAAGGGGAGGGGAAAACAGAGAGGGACAGAGGCAAAAAGAA AAAGGAAAAAAAAGGAGGGGAGGCCAAAACAAAAAGGEGAAG GCCGGCAAACCAAAAGGAAGGAAAGAGAGAATTGGGGCAAAC AAAACGAGACAGAGAGATACAAAGACCGAAGAGAAAGAAAAA AAACCAAGGAAAGGGAAAGGGGGCCCCGGCCGGAAAAAAAAA A G GCCAACCAAAAAAGGGGCCCCGAGGCAGGAAACAG
A G GAA A A GAGACCAAAGAAAGGAGGAGGAGGGAAAAGAAAA G G G G G G G G G A G G A A GAGCCGGCCAGGGGGGGGGAAGGAAAA $\mathcal{A}$ GAAAACCGAGAAGAGGGCCAAAGAGCCAGAGAGGGAAGACAG GAAAAAGAAGAGCGGAAAGAGAGACAAAGAGAAGGAAAACCC CAAAAAAGGAAGGGGGGGGAAGGGGGGACGGAGAGCAGAAGA $A C C A G G G A C G G G G A A A A A A G G G G C C G G G A G G G G G G C A G A A A G$ G GAGGGGAAGGCAAAAAAAGGGCAGAACCGGGGAAGAAACAC CAACCAAGGCAAAAAAAGAGGGGGGAGAGGGAGGACAGACAA CAC GAAAAAGGGGCCGGGGCCAGAACCAAGAACGAGGGAGGA G GAGGAAAAAAGGAAAGGAAAGAGGAAAGCGAAGAGGG GAAT ATAGGAAAGGAAATTCATACAGAAGCAGAAGGGAGCAGAAAG GAAACAGAGAGGACAAGAAGGAAAAGGAGCCATGACCCAGAC CAAA A G G A A A G A G G GAGGGAGAGAACCAAGGAAAAGAAAA GA A G G G G G GCCGGAACCGAGGGGAAGAAAGGGGAAAAGGGAAAA A GAAGCCAGGGAAAAAAAGAGGGAAAACAGGCCAAAAAAGAA $A C C G C A C G G A G A A G G A G A G A A C C G G A A G G C C A A A A G G G G G G A$ A G GAAAAAAAAGGAAGGCCGGAAGGGGAAGGGGAAGGABAAG GAAGGGGGGAAGGGGGGAAAAGGGGGGAAGGAAGGGGAACAA AGGTTGGGGAAGGAAAAAAAAAAAAGGGGAAAAAA GAAAAGG G G G G GAAAAGGGGAAAAAAAACCGGCCGGGGAAAAGGGGAGA GAAGGAGGGAAAGGAAGAATTAGCAGACGGGAAGAAACAGAG GAAGGAGCCGGGGGAAGAAACGACGGGGAAGCCGGACGAGAA A G GA $\operatorname{A} A A A G G G A A C C A A A G G G G G A G G G A A G A A A A A G G G A A G A$ $A G G G G G G A G G G G G A A G G G A A A A C A G G G G G G G A G A G A G G A A G G$ AA $A G G A A A A A A A A A A G G A A G A A A G G C C G G A A A A G G G G A C A A$ A G G A G G G A G G A G G G G G G G G G G A A G G G G GA G G C C G A A G G G G A A GAGGGGGGAAGGGAGGGAAAAGGGGAGAGGACAAAGGCAAAG G G G G A A G T T G A A A C C G G A A G A A A G G G G G G A C G G A G G A G A A A A A G G G GCACAGGAAGAAACCGGCAAAGAAAGGCAAAGCAGA GA $A C C G G C C G G G G A A A A A G A G G G A C A G A A G G A A G G A C C C G A A A C$
 $C G G A A C C G G G G A C A C G G G G G G T A A A C G A G G G A A A G A G G G A C A$ A G G G G A A G G G G G G A A A A GAGGGGAAGGAGAAA GACCAG G G GA GAAAACCAAGGGAGGCCGGAAGGAGCCGGAAAACCAAGAAAAA ACCGGCCAACCAACCGGAAAAAAAGACGAAAGAAAGGGGCGG G G G A A G G G G A T A A A C G G A A A G G G G G G G G G G G G G A G A A G A G G T TAAAGGGAAGAGGAAGGGGAGAAAAGGCAAAAAGGGGAAAAC CAAGGAAAAAAAAAACCGGAAAAAAAAAAGGAAGGAAAAAAA
 $A G G G G G G A A G G G G A A G G T T G G A G G A A A A G A G A G A A A A G G T T G$ GAAGAGGGGAATTAGCCGGCCGAAGGGAACCGGGGGGTXACG GAAAAAAAAGAGAGGAGAAGGAAGAGAGGGGCAGBTAGAGAG AAGAGAAGGGGGGCCAGAGAGAAAGAAGGGGGGAAAAAACAA A GAGGGGAAAGGCAGAAAGGGAAGGGGAAGGAGAAAAAAGBT TAAA $A$ A $A G G G A A G G G A G G A C G A G G C C C C G G A G A A A A A A A G G G G$ G GACCGGAAGGAAACAAGGAACCGGGGAGAGAAAGCCBAAGG G G GAA A A G GAAACGCGGGGCCAAGGGGGAAGAAGGCABAAAC $C A C A A C G G A G G G A A C G G G G A G G G G G A A G G G G C A A G A A G G G G A$

AGAGAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAA $A C C A G G A G A G A A A G G C G A G A A G A G A A G A A G G G A A A A A G A A A A$ $A C C A A G A A G G A C C C C G G G G A G A A G A A G A G G G G G A G A G C A A A A$ GAAGGAGGAGGGGAGGGAGAGAGGGGGAGAGGGCCAGCAAAA A G GAAAAAGGAAAGGAAGGAGAAAACCGAAGAGGGCAAGAGG GAAGGAAGGGGAAGGGGCCAGGAGACCAGAGCCGGAAGGGAA G G G A A A A A A A A A A G GAACCAAAAAAAAAACCGAGGCCAGAC G AAAGGGGAAAAAAAAAGACGGGGAAAAAAGGGGGGGAAAAAA A A A A A A A A G G G A A G G G G A C T A G A G A A G G G G A A A G G A A A A G G A AAGGGAAGGGAGAAACAAACCAAGAAAGGAAGGAAAAGACAC $C \subset C A A G G G G A G G G A A C C A G A A A G A A G G G G A A A C C C A A A A A A G$ GAAAAGGAGAGAGGAAAAAGGCCAAAGAACCACAAGGGGAGG G A A A A A A A G GAAGGAGAGAATGGAGAAAAAAGAAAG GA GAA G $A$ G G G A G A A C C A A A GCCAAGGAAAAAGCCCCGGCCCAGAAAGGA
 AAAAAGACAAAAAGGAAAAAAGGCCAACGGGGGAGGACACAG GA GAGGAAACAAGAGAAAAAAAAAAATTACCAACCGGAC GAA G G GA G TACCAGAAGAAAAAGGAGGAGGAAAAAAGGAGGAACT TAAAAAAGGAAGGAAAGAAAGAAAAGGAGCAGGACAAAAGAA

 G G G G G A A A A G G G G A A A A A A G GAA $A \operatorname{A} A A \operatorname{A} G A A G G G G G G C A A A C$ CAAGGGGCCGGGGAAAAGGGGAAGGAAAAAAAAAAGAAAAAG G G G A A G G A A G GCCAA $\mathcal{A} G C C G G A A G G A A C A G G A G G A G A A A A A A$ $A C C G G A A T A A A G G G A G A A A G G A A G G G G G G A G A A A A A G G A A G G$ GAGCAAAGGGGAAAGCCGGAGACAAGGCCGGAAAAGGCCACB

 G G G A G A A A A A A C C G G G A A G G G G A G G A GAGCGAA GA G GA GAAA AGGAGAAGAGGAACACCAGGGAACAAAAAGGAGGCAAAGGAG A A GAA A GACGAAAAAGAAAAAGGAAAGACGGGGCAAAAAAAA A G G GACAGAGGGGAGAGAGAAGGGACCCCGGAGAAGAAAAAG G G G G G G G G GCCAGGGAAGGAAAGGAGGGAAGGGCACACAAAA $G G A G A A A A A C C G G A A A A A A A G G A G G G G G A G A A A A A G G G G G G A$ $A C C A A A A A A A A A A G G C C G A A A G G A A G G G G A A A G A C A C A T G B A$ A G A A C G G G G G G A A CAAAA A GAAAAAAAAGGGTTAAAAGAAGG A GACAGAGAAGAGAGGGAAAAAACAAAGAGGAAAAAGAAATC CACAGGGCACAAACCAACCGGGGGGGAAAGGAAGGGGAAAAC C C G G A G G A GAACCACGGAACCGGAAGAGGAAGGAAAGGAAGAG G G G A G A G G A G G G G A A G G G G A A A A G G A GA G A A G G G G A C G G A G A $G G G A G C C G A A G G A A G A A G G A A G G G G A G A G G G G C T T A C G A A A G$ GAAGGCAGACCCCAGAGGGGAGGGGCCGAACAAGGGGGGAGG A G GAAGGCCGGGGGAAAAAAAAAGGAGGGAAAAAGAAGAAAA GATGACAAAAAAAAGAAGAGGCAGGGAAGAAAGGGGAAGAAA
 G G G A A G G G G C C G A A G G A G G G G G G G A C C G G G GA $A$ A A $\mathcal{A} G G G C A A$ A G G G G A A G G A A GACCGGAGAAGGGGGGGAAACGCAAAA G G G A A A G GCCGGGGAAAAGAGGGAAGGGGGAGAGAAAAAGAAGGGGG G G G G G T T A A G G A A C C G G A A G GCC G G G GC C G G GA G G G G A GA G A G GAGAGGAAGGGAAAGGACAGCAGGAAGAGACCAAGAAAACA A A A A G G G A G G GCAGGAGGGGGACAGCAAGGAAGAGAGAAAAG GAAGGAACACAAACCGGAGGGAGGGCCAAGGGGGGGAGGGGG GAAAAAAGGAGGACGGGGAAGGGAGAGAGAGGGAA$G G G G G G G$ GAGGGAAAAGGAAAAAAGGAAAAAAGGGGCCGAAAGAAAAAG A G GCACCGGGATTCCAAAAGGGGAAAAGGAGGGAGGAGAAGA G G G G A A A G GAGCCCAGACAGGGGAAGGAAGCAAGGAAAGAGA G GAGGGAAGAGAGGGCAAAAACAAAGAAAGGAAAA GGGGGGA A G G A A G G A A A A G G G GAA T T A A A G G G GAAAAAAGGGGAAAA G $A$ A A AAAGGCCAAAAGGAAAAAAAAGAGAAACCAAGGAAGGAAGGG

A G G G G A A G GAA $A \operatorname{AGGGGG} \operatorname{G} A \mathrm{~A} A A A G A A G G G A A G G G G A A A A G A C$
 CA $A$ A A A A G GAAA A GAGAGGAAGGAGAGCAAGGGCGGAA GA GA G G GAAAAAGGAAAGGAAAAGGCCGGGGGGAAAAGGGAAAGAA A G GAAAAGGAAGGGGAAAAAAAAGGGGAAAAGGGGGAAAAAA G G G G G G G A A G G G G A A A A $\mathcal{A} G G G G G G G C C C C G G A A A A G G G G G G G$ G G G A A G G A A A A C C G GAAAACCGGGGCCGGAAAAAA GGGGGGA AAAGGGGGGGGGGCCCCCCAAAAAAAAAACCAAGGGGAACAA A A A G G A A G G A A A A G G A A A A G GCCGGAAAAAACCAAAAG GGGA AGGGGAAAAGGAAAAGGAAGGCCCCAAAAAAGGAAGGCCGGA A A A A A G G G G A A G G G G C C G G A A G GAA A G G G G G A A G G G G
G G G G A A G G G G G G A A A A G G G G A A G G G G A A A A A A A A G GAA $\mathcal{A} G G$
 G G G G G A A G GCCAACCAAGGAAGGGGAAGGCCGGGGAAAAGGG G G GAACCAAGGAAGGAAAAGGGGGGGGGGAACCGGAAAAGGA A G GAA A G G G G GAA G GCCGGCCAAAAGGAAAAAAAAAAGGCCG GAA $A \operatorname{GAAAAAGGAA} G G G G A A C C A A A A G G A A A A A A G G G G G G G G G$ GAACCAAAAAACAGGGGGGGGGAAAAAAAAAGGGGGGABAAG $G G G G A A A G G C A A G A G A G G A G G A G A A G A A G A A A A A A A A A A G A G$ G G G GA G A A C A G A A G A A A A A A A G G G G G G G C A GA G A G A G G G G A A AAAGGAAAAGGAAAAAAAAAACCGGGGGGGGGGGGACAAGGC $C \subset C A A A G G G G A G A A A A G A A G G A A A G G A G G G G A A G G G G A A G G A$ A GAA A A A A A CATTGAGGAAAAGGATGAGGGGCCAGAGGGCCG $G G A A A A G A G G A G G G G G G G G G A G A G A A A G G A A A G G A A A A C G B A$
 $A C C G G A A C C A A G G G G A G A G G G C C A A A A G G A A A A G G G G C C A G G$ GAAGGAAGAAGAAAAAGGGAGAAGGAGAAAGAGCCAGTXAAA GA $A \operatorname{GG} A \mathrm{G} A \mathrm{G} G \mathrm{G} G A A A A C A G A A A A G G G G G A A A G G G A G A A A A A A A$ GACAGCCAAAGAAGGGAGGGAAGAGAATAGGGGTTGAAAGAG G G G G G G G A A A A A A A A G GAAAGAAGAGAGGGGGGAACACAAAG GAAAAGGAAAAGGAACAAGGAGGGACACCAGGGAACAAAGAA A G GAA ACGGGGAAAAGAGAAGGGGGGGGAAATAGGCAAGAGA AAAGGAAGGGGAAGGAAGGCCCCGGAAAGGGGGAAAGABAAA AAAAAAAGGGACCGGAAGAGGAAAAGGCCAAAGAAAAAAAAA CAAAAAAGGGGGGGGAAGGGGAAGGGAGAAGAAAAAAAAAAG A A G G G A A C C G G G G G G G G G G A A A A A A G G G G C A A A A G G G A C G A $G$ A A G GAGGGGAAGGCAAAGGAGAAGAAGGGCCGGAAGGAAGAG AAAAGGAGGAAGAGGGAGGAAAAAGGGCCGGAGAACAAGCCA

 AAGACAAGAAGCAGGAAAAGAAAGGAAGGAAAAAGAAGACAG A GAG $\mathrm{A} G \mathrm{G}$ GAAGGCCATCCGGGGAGCAAAAAAAGAGAAAGAAAG AAACAGGAGCAACAAAAAAGAAAGGGAGGGGGAGGGGGGGGG GAAAAGGAGAGAAGACCAGAAGGCCAAAAAGGGGAGGAAAAG GAAAAAAAAGACCGGGGAAAAAAAAAAGGGGGAAACCGAAGA $A C C A A G A G A G G A G G A G G G G C C G G A G G A A A G G A A C A A G G A G G A$
 C G G G G G A A A A A A G G G G GAA $A \operatorname{AGGGGGGAA} \operatorname{GA} A G G G G A G A A A A A$ ATTCCAAAAAACAAAAGAGAAAGCCGACAGGAGGGGGGACBG
 GAAAACCGAAAAAAGGAGGGAACCCGAACGAGGAGGAGAGGC
 A G G G G A A C C G G A A A A G G A A G A G G G G A C G A A A A A G G G G A G C C G GAAAAAAAGGGGAAAAAAGCCGGAGAAAAGGGGACCAAAAAA A A A A A A A A A A A AC GAACAAAGGGACAACCAGGGCAGGAAAGG G GAGGGGCCCCAAGGCCAAGGAAGGAAGGGGAGAGAAAGGGG G G G A A A A G A G A A A C C G A G A GAA A A A G GC CA G G G G G G G C C G A A G G G G G G A A G G A G G G G G G A A A A A GAA A G C CAA A GAAA A A GA G G G GAGGGGAACCAAGGAAAAGGGGAAAGGAGGGAAAAAAAAAC

A G A G A A A A A GAAATTGGGCCACACGAAAAAAAAAAAAAGGA
 G G GCAAGAACAGGGGGGAGAAAAGGGGAAAAAAAACCGBGAC A GAA A GAA A A A G G GAGAGGGGGGGGGGACAAAGAC GAAAG GA A GAGGGGACGGAACCGGAACCAAAAAGGGGGAATTAAACCCG AGACCAAAAGGAAAAAAGAATCCCCGAGGAAAGAAACTTGGG
 A G G G A A A G G G G A A G G G GAA A G C C G G G G GAACGAAGAGAAC C C C GACCAAAGAAGGAAGGAAAGAGAACAAGGAAAAAGACCCCA AAAGGAAGGAAGGGGGGCCGAAAGAGGGGGGCCGGGGGGGGG GAAAAGGAAAAAACCAAGACCAGAGGACCGGAAAACCAAACA A G GAC C G A A A A GAA $A \mathrm{G}$ A GACCGGGGGGAAACAAAAGATAAAG G GAGGAGGAGAGGGGACGGAACAAAAAGGAAAACCGAAAGGAC CAAGGGGAGTTGGGGAAGGGAACGGGGAGGGAAGGAAAAAGA AGGGGCCGAGAGGCAAGGGAGGAGAAAAAGAAAGACACACAA A G G G G A A A G G G G G A A G GAGAAAAAAAAGGAGGGAACAAAG AA C GAA $A C C A G A G G A C C C C G G G A G G G A A A G G G G A A A G A A A A G G G$ GAAAAAAGGGGCCGAAAAGAAAAGGAGGAGAAGGGGGAAAAG G G G A A A A A A G G GACAGAGAAACCGAAGACCAGAGGGAAAAC G GCCAAAACAGGGACCCCCAAACAGAAGGGGGTAAGGACCGGG G GAAAACGGGGAGAAGGGGAGCAGGGGAAAGAGGGGAAAAAG G G GA $\operatorname{l}$ A A A A G G G G G G T T A A A A C C G G A A A G G G G G A A G A G G G A G A A A A GAGGAAGAAAAACGGGAGGGGGGACAAAAGGAAAATXA A $G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAAAAAAAAAAAAAGGGAAAAAGGCCAAGGGGGGA A G GAA A G G GCCAAAACCGGAAAAGGGGAAGGGGAAGGGAAAA AAAGGGGAAAAAATTAAAAGGGGAAGGGGAAGGAAGGGAAAG GAAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGAA A A A A A G G A A G G A A A A G G A A A A A A A A A A G GAAAA $A$ A G G G GAAA A AAAGGGGGGAAAAAAGGGGAAAAGGAAAAAAGGAAAAGAAAA AGGCCAAAAAAGGGGAAAATTGGGGGGGGGGAAGGAAAAAAG GAAAAGGGGAAGGGGAACCGGAAAAAAGGCCGGGGGAAAAAC $C C C T T A G A A G G A G A A A A T T A A G G G G C A G G A G A A A G C C A G G G A$ GAGACCGAGAAAGAAGACCGGAAGAGAAACCGGGGGGACGGG GAAGAAACCAAGGGGAAGGCCGAACAGACAGAGAAAGGAGAG G G G A C GAAA A G G G A A A A A G GAGACAAAAGAGCAAAAGGAAAG G G G G G G G A A G G G A C C G G A A A A G GAA A GACAAAAA A GA G GAA A GAAGGAACAGGAAGGGGAGGGAAGAGGACCCAGAAAGAAAAC CAACAAAGGGAAGGGGGAAAAAGAGCCAAGGAAAACAGAAAG A GACCAAGAAAGAAAAACCCCGGAGACGGAAAAAAAAGGGGA $A \subset C A A G G G G G G A A G G G G A A A A G G A A A A G G A A G G G G A A A C A B A$ G G GAAGGGGGGAAGAAGGAAAAGAAAGAGGGAAACGAAAAAG G G GAGGGAGAAAGAAGAAAGGGGAAAAAAAACCAAGGCAAAG G G G G GAAAGAAGGAAGGAAAAAAGGAACCGGAAGGGGAACAA G G G A C A A A G GAAACAAGCCGGAAACAAAAGGGGGAGGCAAAC A A A G GCC $C$ G $G G G G G A G G G G G G G G G G A A A A A A G A A G G G G G G C C A$
 G G G A A A A A CACAACCGGAAGGAAGGCCGAAATAAAGGGAGAG AAAACGGGGAAGAAACCAAGACACCGGACAAAAGGGAAGAGG G GAAAA AAGGAAACCCCGGCCAGAGAAGGAAGGGGGGCCGGG G G G A ACCCACAAGAGAAGAAAAAAAGGAACCCCGGAGAAAAG A G G G A C C G G G A A A G G G G G GCC G G G A G G A A C C G G G G A G G G G A G A G G A GAG $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} C \subset A A C C A A G G G A G G G A A A G G G G G G G G A$ A G G G G A A C C C C G G C C G G C C G G A A G G G G A A G G G G A A A A A A G G A GCCGGAGAAGGAACCAGAAAGAACCCCAAGGGAAGCCCAAAC
 $A G G A G G G G G G G G G A A A G G G A A C A G G G G G G G G G A G G A G A A A A A$ GA $A$ A A $A \operatorname{GAA} A G G A A A A A A G G G G A G G G A G G A G G G A G G A A G A A G A$ A A A G G GA GAAAAAAGACAGAAGGGAAGAAGAAAGGGGGAAGAG $G G G A G G G G G G G G G G A G G G G A G A G A G G G A G A A G A A A G A A G A G A$

A G G A G A G A GA G GAA A G GAAAAGGAAAGAAGGACGGGGCCCCG
 GACGGGAAAAAAAGGGGGGGAGAACAAAAAAAAAAGGAGCAG G G G G GAAAAGACCCCACGGCCAAACGAAGAACAAGGAAGATA GAGAGGGGGAAGGAAAAAAGGCAGGAAAATTAA GAAAGGGGG G G G G G G G A A G G A A A GCCAAAAGGGACAGGGGGGAAGACAGAA GAGGGGAGGACAGAGGAGGAAGGCCGGAGCCAAAAGGAAAGC ACAAAAACCCCCCCAAAAAAAACGGGAAAAAAAAAGGGGGGG ATAGGGGCCGGGGGACCAGAGGGAAGGAGAGAGGGGGCCGAG ACCGAGAAGAACCCCGGAAAGAAAGGAGCAACCCAGGAAAAG GAAAGGGAAGGGGAACCGGCACAGGGGAAAAAAAAGG
G GCC G G A A G G A A G G G GCGAAGGGGGCAACCGGGGGAAAAA G G G A A A A GCCGGGAGACAGGGGGGGAAAGGGGGGAAAAAAGAG G G GCCGGAAAAAAAAGGAAGAAGAGAAGGAGGAAGCCAAGAG AAGGGAAAAGAGGCCGGAAAGAAAAAGAAGGGAAAAGCAAAA A G GAGAAGGAGAAAACCAGAGAAGACCAAGGCAAGAGCA GAA CACAGGGAAGGAGAAGGGAAGAAAAGAGGGAGGGGACAGACB A A G G G GAGGAAGGAAAGGGGAAGAGAGAAAAGAGGCAAAAAA $A G G A A A A A A G G A A G G G G G G G G G G G G G G G G G G A A G G G G G A A A G$ G A A G G G G A A G G A G G G A G A G A A G G A A G G G A G A G G A A G G A A A $G A$ A A GAGAGGAAAAGAAAAGGAAAGACAGAGCCGGAAGGGGAAA GACAGGGGAAAAAAAGAAAAAAGAGAAAAACCCAGAGAGABA G G G A A G G A A A A C C A G G G G G G G A A C C C C G A G G G G A G G G G G C C G G G G C A A G G G A G A G G A G G C C A A A A A GAGAC GAA G GA GAGA G G A A G G A A A G A G G G A G A G G A A A G G A A A A G G A A C C G G G G A A A G G G C A G GCCAAAAAGGGGGGAGGAGGAGAGACAAAAACCAAGGGGA
 G G G A A A A A A A A A A G G G A A CAGAAGGCAGGCCAGGACCAAGGC CAA $A$ A $\operatorname{A} G A A A A A A A A G G G G G A A G A G G G A A A A G G G G A A A A C A G$ G GAAGAGGGAAGGGGCCAGGGAAGGACCAAGGACAGAACGGG $G C C G A G A G A G G G G G A A A G G A A C C G G A A A A G A A G C A G G A G G G G$ GCCAGGAGGAACAGAGGAAGAGGAAAGGGGAAAAGAGGGGAC C GAA A GAGGAGGCAGGGAAAAGGGGAAGGAGAAAAGGGAAAA A A GA $\mathrm{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A}$ GAAGGGAGGAGGAAAAAAAAAAAAAAGGAGGA A A A G G G A $G G G G G G A A C G G G G G G A T T G G G A A A A G A A G G C A A C B$ G G GAAGGTTAAAAAATTAGCAGGGAAAGCGAGAAAAAAAAAG GAAGGGGAAGGCCGGAGGGAAGGGGGGACGAAAAACCGACCA GCAGGAAGGAAGAGGGGAAAACAAAGGGGAGCACACCCAGBA A C C G A A A G G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A A A A G G A A A A G A A G A G G A G G GAGGGGGGCCAAC GATAACAAAG G G G A A A G A A A A G GAAGGGACCGGCAAGACGAGAAAAAGAAAA GAGAAGGACAGAAAGGGGGGGAAAAGGCGCCAGGAGGAAAAG GAACACCAAGGAGAGAGAGATAAAGAGAATTGGACAAAAAGG AAAAAGGGAACGAGGAAAAGGAGCCGAAAGGGGGAAGABAAG G G A G G G G A A G G A A G A G G A A A C G G A A G GA GAACCATAC G GA G G GAAAAAAGGAAGGAAGGAGGAACAAAGGGAAAGAGCCABAAC A G GCAAGGGAACCAAAGAGGAAGGAAGGGGAAAGACCTXGAA A A GACAAAAGGGGCCGGAAGGAAGGGAGGGAACAACAAGAAA G GACCAGGGGGAAAGAAGGGCGAGAAAGGGAGGGAAAAAGGG G G GCCCCAAAAAAAAGGGGGGAAAAGGAACCGGAAGGCCGAA AAAGGAACCGGAAGGAAGGAAGGAAGGGGGGGGGGGGAAAAA GAAAAGGAAGGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAG GAAGGAAAACCCCAAGGGGGGGGGGAAAAAAGGAAGGGAAAA A G G G GAACCGGAAGGGGGGGGAAGGGGAAAAAAGGGAAAAAG G G G G GCC G G A A A A G GAAGGCCAAGGGGAAGGAAG GAA GAAAA A G GAA A GAA A GAA $A \operatorname{AAGGAAACAAACGGGGAAAAGGAAAAGCC}$ AACCACCGGAGAGGAGAAAAAAAGGGGAAACAAGAGGAAAAG GA G G G A A G A A A A GA A A A G G C C G G GAAA G G G G C C A A G G A A G G A $A G G G G G G A A G G G G G G C C G G A A G G G G G G A A A A C C G G G G A A A A G$

G G GAA A GAAGGAAACGGGAGAGGACGGAGCAGAGGAAAGGGG G G G A G G G A G G A G A A G G A G G G A G G A A A A A A G A G G G G A A G G G G G GAAGGGGCCAACCGGAAGACAGAAGTTGGGAAAAGGGGAAAA $A C C A C A A A A G G A C A G A G C A G G A A A A G G A A G G C C A A C C C A G A G$ GAGAGAAGGGGGAAAAACCAAAAAAGAAAAGGGAGAAAAGAA $A G A G G A A A G G G G G A A G A G A G G G G G G G G A C G G C C G G G A A A G G B$ G GAGGAAAAGGAATTCCGAAAGGAAAGGGGAGGAGAGAGAAA CAAGGAGAGGGAGTAGAAAGGAGAAAGAAAACCGGAGGACCC C G G A A A G A A A A C C G A A GAA $A$ G GAAAAGAGACGAGACAAA GAA G GACCAACAAGGGACAAAAAGGCCGGGGAGAGCCAAGGGGGGG A GAGAGAAGACAGAGAGGAAACCGAACGGGGCCGAGGGGGGA $A G G G G G A A G G A G A G A G G G G A G A G A G A A A A A A G G G A G G A A G G G$ GAAAAAGGGAAACAGAGGGGAGGGGGGGGAAGGAAGGGAAAA GACGAAAGGGGAAGGAGAAAGCCAGAAGGGAGAAGGAGAAGA AAAGGAAGGAGAAGAAACCGGGAACGGAAAGGAGGAGGGGGG AACGGAAGGAAGGAAAATTGGGGGAAGAAAAAAGGAAGAAGG GAACC $A \operatorname{CA} A A G G G G A C G G A G G G G A A A G G G G C C G G G G C C B G G A C$ C C C A A A A G G G G A A G G G G G GAGAGGAGAGGAAAAGGGAAAA GA G G G GAGGGAGGGACATTCCAGGAAAGGCCAGCCAAGAGAAAA GAAA A A A $A \operatorname{A} G \mathrm{G} G A \operatorname{A} A A G G G G G G G G G G T A G G A A A A G G A A C A A A A$ A G G G G G GAA A A G GAA $A \operatorname{AGGAAAAGAGGGAAGAAGGGAAAAAAG}$ GAACCAAACAGGGAACCGGGGGGGGAACCAAAAGGAGAGAGG G G GAGCCGAGGGGAAGGAAGGACAAAAGGAGGAGAAAAAAAA A A A G A A A C CAGGGGGACAAGAGACAAAGGAATTAAAACAGAA $A G A G G A A G G G G A G G G A G A G G G G A A G A A A C A G G G A A A A A A G G G$ G GA A G GAGAGAGGGAAAGGCCGGTTAAGGGGAAGACCABAAA A GAGGGGAAAGAAGAGGAAAGAAAGGAAAAACCAAAAGGGGC A G G G GACGGCCAAGGAAAAGGCCACAAGGGGAAAAGGAAAGG G G GCCAAGGCCGGGGAAAGGAAAAAGGAAAAAAAGCAAAACA G G GAGGGGGAAAAGAGGCAGACCGGGGGGGGAGGGACGAAAA CACAAGGAGGAGAAGCCAGGGGGAAAGAAGAGGCAGAAAAAA C GA A $\operatorname{A}$ TAAAGGGGAGGGACGGAAAGAGAAAGAAGGGAGAAAA A GAGAGGCCGGAAAAGACCAAGGAACCACAAAGCCAGAGAAG
 A G G G G G G G A A G A A A A G G A G A A A A G GAGGACACAAACCAGCAA ACCAAAGAAGAGGGGGGGGAAAAGAGGAAAAGGCCCCBAAAA
 GAGCAGAGGACGAGAGGGGGGATGGAAGAAAAAGGGGGGGGG A A G G A G A G G G G G G T T A A G G G G G G G G A A A C G A A G A G G A G A G A A
 GAATTACAACCAAGGAAGGGGAAAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAGAAGAGGAAAGAAAAAGAAAAAAGAAA GAAGGAACAAAAACACACAAGGAAAAACCGGGGAGAAGGGGA $A C C G G C C G G C C A A G G G G C A A A G A G A G A G G G A G G G G A A G G C C A$ A A A A A A A G G G G A A A A A A A GAC G GACGGGGGGGAGAAA GAAAA G G G G G A A A GAA $A \operatorname{GCC} C A A G G A A A A A A G A G A G G A A G G G G C C G B A$
 AAAGGGGGGAAAGAAGGAAAAAAAAGGGGCAGGAACCCAGAG G G GAAAAGGAAAGAGAGAGCAGAGGAAAAGGCCGGGGGAGAA A A A A A A A G A A G G GAAAAGAGAAAGGGGGGAGAGAAGGGAAAG GAGGGCCAAAGAACCGGGAAAAGCCACGAACGAGAGGGGGGG GAACGAACGGAAGGGGGAAAACCAAGACAAAACAGCAA GAGAA C G G G G A G G A G G G G G G A A G G T T G G G G G G A G G A A G G G A G C C A G A A GAGGAGACGGAAGGAGGAGGGGGAGGAGCCGGAGAAAAGGG G G G G G A A A A G G G CAAA A A G G GAAA A A A A G A A A GGGGAAA GA G G A GAAAAAGGAGGGGGAGGGGCAAAACCAGGGCAGGGGGGGGC CAACCGGGAAACCGGTTGGAAAAGGGGCAAGGGAGAACAACB GAAGGAAAAAAAACCGGGAAAA GGGGGAGGGAGCGAGCCBGA AAGGAAGAACAGGCCGAGGGAGAGGCCGAAAAAAAGGGGCAA

AAACCGGAAAAGGGGAACCCCGGGGAAGGAAGGGGAAAAAAA A A A A A G G G A G G A A G A A A A A G G G G G G C C G G A A A G A GA G CAAC A A A A G A G G G G G G A A A A A $A G A G C A A G G G G G G A G A A A A G G G G G G G$ GCAGGAAAAGGAAGGGGAAGGGGGGGAAAGGGGAGGAGATAA A GAGGGACAGGAAAAGAGGGGGGACAAACAAAACCAAGGGGG GCCGAAAGGGGGGAAAAGAGAAGCCGGGAAGGGAGGGGAAAC $A C C A A A A A G C C G G A A A A G G A A G A C C A A A A G G C C A A G G G G G G A$ A A A A A A A A A G G A A A A CAAACCAGAAGGAACCGGAGGGCCGGG $G C \subset A A A A A G A A G A A A A A A G A G A G G A G C G G G G C C A A C A A A A A A$ G G GAAGGGGAGAAGAGAAAAAAACCGAAAAAACGACAACAAA A A GAACAAGAAAAGGGAGGAAGGAAAAGGAGGAAAAG
CAAAGGAGAAAAAAGGAAGGAAAACGGGAAGGAGAAAAAAA AAAGAGAAGCCCCAAAACAAAGGAAGGAAAAGGGGTTAAAAA A C C G G G G G G A A C C A A G G A A C C G G G G A G GAC G G G G G A A A A C A A GAACAGGCCGGAGGGGGAAGGAAAAGGCAGGACAAAAAAGGA GAACCGGAGAAAGAAAAAAGGAAACGGAAAGAAGGAAGAAAA A A A A A A A A A A A G G A A A A G GAAA A G G G GAAAAAAAAAA A $A$ A G G G G GCAGGGGAGAAACGACAAATTAAAGAAGGGGGGAGCCABAAG G G G G G G G G G G G A A C CAAAAAAGGGGAAAAGGTAAACCAAAAA A GAAAAGGGAAGAGACCAAGGAAGAAATAAAAGAAGGCCGGC CAAGGGGAGAAAAGGAACAAAAAAACAAGGAGGGGCAAAAAA A G GCCCGAAAGGAGGGGGGGGGGGGAAGGAACCGAGAAAGAC G G G G A A A A G G GAA $A \operatorname{GAAAAAACAGACGGCCGACCAAGGGAGAG}$ AAGCCAAGGAAAAAGAAAAGGAGAAAGCCGAAAAAAGAAGAA AA $\operatorname{A} A C A A A G G A A A A A G G C C A A A C G G A G G G A A C A A A G A G G G G A$ AA $A G G G G A A A A A A A G G G A A A A G G G G A A A A A G G G G A G A A A A G G$ GGACACCAATTAACCCGATCCGGAAGGCCAAAAAAGGAAGGG GAAAGACAAGGGGAAGAGGAGGGCACCGGCAGGTTCCABAAG A G GACAAGAAACCGGGGAGGGGGAGCCAAGAGGGGCCABAAA G G G G GAA $\operatorname{G}$ GCAGGAAGGGGAGCCAGGAAGAAAGAC GAAAAAA GAGACCCAAGGAAAGGGGAAAGCAAAACATTAAGGAGAAGAA GAAGAGAGGAAGGGGAAGGGGGGAAAAGGGGAAAAAAGGGGA GACGGGGCCGGAAGGAAAAGGAGCAAGAGGGAAGGGGAAGAA GAGAAGGGGGGAGAAGGCCGGGGGAACACAGGAGGAAGAGAC C G G G G A A A G GAGGAGGACCAACCGGGGAAGAGAAAGACAAAG GAAGGCAAGGGCAGGGGCATTAAAAAAGGCACCAAAAGGGGA A GAGGGACCGAAAAAGGCCGGGGGGAAGAGAGGAACCGGGGA $C G A C C A A A A G A A A A G C A G A A A A A A G G A G A G G A A G A A A G G G G G$ GAAGGGGAAGGAAGAAAGGGGGGAAGGGGGAGAAAAGABAAG AACAAAGGAAAAGGGGAACGGAAGAAAAAAAGACCAAAAAAG G G GAGGACCGACAAGAGAAGAGAGGAAGAGAGATTGAACAAG $G C C G A A G A A A G G A G G A A A T G A G G C C G G A G A A C A A G G A A A G G G$ AGAGGGACCGAAAGGAAAGCCCCAAAAGGGGAAGGGGAGAAG A G G A A A A G A A A GAGGCCGGCCAAGGCCAAAAGGCCAAAAGGG G G GAA A A G GCCGGAGAGGGAAGAGAGAGAGACCGGAAAGABA
 $A A G C C A T G G G G G G A A A C G A A G A G A A A G G A G A A A G G A G C A A G B$ A A GAGAAAAGGGGAAAAGGGGGGGAAAGGAAGGCCAAGAAAC CAA A GAAAAGGAAGGCCAAGGAAGGCCGGAAAA GGGGAAGAC C G G G G G G G G A A A A A A G GA G A G A A C C G A A C G G C C G GC G G G G G C $A G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A G G A A A G A G G A A$ AACGAGGGAGAAGGAGGCCAAAAAAGGGAGGAAAAGGGAAGG GAAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G GAA $A \operatorname{GA} A G G C A A G A A G G C A G G G G G G G G G A C C A G A A A$ G G A A G G A G A G G A A A A A G GAACA A A C G GAA G G G GACAGGGCC G G G G A A A A C C G G A G G A A A A G A A GAGGAAAAGGAGAA GACAAG G G G GAAAAAGGACCGGAGGGAAGGGGGGGCGGAACCAAAAAAG A G A A A A C C C G G A A G GAGACCCGGCACCCAACAA G GAGGGG GA A A GAACCGAGGAAGGAAGGGGGGCCGGCCAGGGGGACGAGAG

GAGAGGGGGGGAGGAGGCCTTAGGAGGCAAAAGAGGGGAGAA

 GAAGAGAAGAGAGGGGAACAGAGTAGAGAGGAA GAAAGGGGA A A A A A G GCCAA $C$ C G G GAAGGGGGGGGGGAGGAGACCGAAAAAG G G GAA $A \operatorname{GCCA} A G G G G A A G G A A A A A A G G A A G G G G A A A A G A A G G$ G G G A A G G A A G G A A A A A A G GCCCCAACCAAGGGGGGGGGAAAG G G GAAAAGGGGCCGGGGAAGGCCCCGGAAAAAACCAAAAGGA A A A G G A A $\mathcal{A} G G G G G A A A A G G A A G G A A G G A A A A G G A A G G G G G G G$ G G GAACCGGAAAAAAAAGGGGAAAAAGGAAAGGCAAAAGGGA G GAA A G G GACCAAGGCCGGGGGAAAAAAAAGAAGGAGAAGAA G G G GAGGGGAAGGAACAAAGGGGAAGGAAAAAAGAGAAAGGG A G A A G A G G G G A G G G A G G C A G A A A G G C C G G A A G G G A G G A A G A G G G G G G A A A G G GCGGGGAGAGGGAAGGAGAAAGGGGAAACAA AGGAAAAAAGGAAAAACAAAGGGCAGAAAGAAGAAAAAGGAA AACGAACAAGGACAGCCGGTTGGAGAGAGAGGAGAAGGAAAG G G G A A G G G G G G A A G GAAAAAAAAAAAAAAAGGAAGGGGAAGAA AAAGGGGGGAAGGAAGGAAAACCCCAAAAGGAAGGAAGAAAG GAAGGAAGGGGAAAAAAAAAAGGGGGGAAGGGGCCAAGGGGA
 C G G G G G G G A A GACAGAAGAGGATAAGGAAGGAAAAAAGACCA GAAACAGAGGGAGGGAAAACCAAGGAGGGCACCAGAAAAGAA A G GAAAAGGGGAACCAAAAGGCCAAGGAAGGAAAAAAAAGBA A A A A A C C A A A A G G A A G GAAGGAAGGCCGGCCAAGGGGAAAAA

 A A A A A A A A A A A A A A A A A A GAAGGGGGAAAAGGAGGGAA GAAA GAGAAAGAAGGGAAAAGAACCAAAAGAAAAACCGGAAGAGAA GAGCCAAAAGGGGCCAAGAGACCGGAAGGAAGAAAGAAAAAA A G GAGGGCAAGAGGAGAGGAAGGGGAGGAGAAAAGCCAAGGG GAGAAGAAGGAACAGCCAGAAGGGGGGGAAAAGGGAAAAGAG AAAAGGAAAAAGGAAAAGGGGAAAGTAGAAGAGAGAGCCCCA A G GAAAAGGGGCAGGACAGGAAAGAGAGAAGCAAGGGAAGGG
 GAGGAAAAGCGGGAACAAAGGGGGGAAAAAAAAAGGGAACAG G G G G G G G A A G G G G C G G A GAA A A A G G G GAAA A G CA $\mathcal{A} A A G A A A A$ GCAAAAGAAAGAAGGAAAAAAGGAAAAACGGCCCAGGAGGGA $G T T A G A G G A G A A A G G A A G G G G G G C C A A G G A A G G A A A A C A A A G$ GCCGGAGGGAAGAAAAAAGAAACCAGAAGGAGAGGAGACABC C GATTAGAAGGAAAAGGAAAACGGGGAAGAGAGAAAACAGGG GAACCCCAGCAGGTAGACCAACCAAGGAGAAGAGGCCCAAAA A G GAACGAAGGCCAAGGGGGGAGAAAAAAGGAAAAGGAAA G G $A$ G GAGGCAGGGGAAAAGGAGACGAAGGGCCAGGACCGGAAAAG G G A A A G G G G A A A A G GCCACGGAAGGCCAAGACCGAGGGGGGG G G G G G G G C A GACC G G CAAA A G G G G G GAAAAAAAAAAAAA GAAA G G G G GCACCAAGAGAAGACATAGAACAACAAAAGGTTAAATG A A A A A A A G A A A A A A A G G GAAGAGGAGAGGAGCAGAGGAAA A A A A A A A A G G G GAAACCGGCCAAAAGAGGCCACGGGGAGAAAAG GAAAAGGGGGGAAAATTGAGGAGACAGAAGGCCGCCCGGCCG GAGAAGGAGAGCGCAAAAGGGTTCCACAAAAAACCCCBAABA A G GAA A GCCAGGGGAGGGAACGGCAGGAACCGGAAGAAGAAA CAGAAAAGGGGAAGGGAAAGGAAGAAAAGCAGGGGCAGAAAA A G G A A A G A A G G A A A A A G G G G A G G G A G G G G G A G G G A G G C C A G G AAAGGAAAAGCAGGGGAGGACGGGGTTGGCCGGAGCCAGCAA A A A A A A CAAAAAAAAGGAGGAAAAGAGAAGAAAAAAAGGGGA ATTAAGAAGGGAAGGAAGGCGGGAAGGGAGGGAGGAAAAAAA A A GCAGGAGGAAGAGAGACAGGGGAGCAGAAGGGGAAAAAGG G G G A G TA GAGAGGAAAAACAACGAGGGAAAGGAAA GAAAGA G $A G G A T A G G A A G G A A C G G G G C C C A G A G G G G G G G G A G G G G A G G A$

A GAGGGGGGGGGAGAAGGGGGGGGAAAAAAGAGGGGAGAAAA
 GAGGAGGAAGGGGGAGGAACCAAGGAAGGCCAAACAACAAAA AAGAAAAGGTTGGAAGGAAAGAAAAGGGACGCCGAGGAATTA
 A A A A A C C A A G G G G A A A A C CAA $A \operatorname{AGGGGGGGAAAAAAAAGGGGA}$ CAACCAAGACAAGACCAAGCAACGGGGAAAAAGAACCBAAAA ACAAAGGCCAAGGAAAAAGAGAGGAAGAGAGAGAAAGAAGAC A A A G G A G G GAACC G G G G G G A GAACCAACACAGGAAAACCGBA AGGGGCCGGGGGGAGCGCCGGGGAAAAAGAAGGCAAAGAAAG A A A G G G GCCAAGGGAGGGGCCCCACCAAAAAAAAAGG
G GCAGAAGGGCCAAGGGGCCGGGAGGAACCAACCCCCAGCA GAAGGAAAAGAAGAAAACCAGGGGGAACACAAAAGCABAGAG G G G G G T T A A A A G G A A G G A A G A A G G A A A A G G GAAAA GACAAA A
 ACAGGGGAAAAGGGGAAAATTGGAGACGGGGAGACAACCCCA AAACCACAAAAAAAACCGAGAAGGAAGGGGAGGCAAGAACAG A G G A A A A A A A G G G A G G G G G G G G G A A A G G A C C G A G G A T G G G G A GAAGAAGGGAAGGAGCCAAAGGCAGAGGAGAGAGAGGGAAAG AAAGGAAGGCCAAGGGGGGAAAAAACCAGAAGAAGBACCCCG G G GAGAAAAACAGCGAGAGTAGAAAAAAACCGAGGAGAGACA GAGAAAAAGGAAGCACAGAAGGAGGAAAGGAGGAGGGAGGGA A A A A A A A A A C C C CA A G G G G G G A G G A G G GA G GAAAAAAA G G G G G GCAA C G G G A G A A A A A A A $\mathcal{A} G G G G G A A G G G G A A G G G G A A G A A A G$ GCCGGGGGGCCTTGGGACACAAAGGCCAAGGGGAAGAAGAAG G G GCGGACCGGAAGAGGTTGAAGAGGGAAAACCCCAAGAGAG G G GAGGGGAACAGGGAGGGCAAAGGGGGGAAGGAAGGAGAAA GAGGGAAAACCGAGGAGGAGGAAGGGGGGGAGAAAABAACAG $A G G C C T T G G G G G G A G A G A A G G A G G A G G G G A A G G A A G G A A A A A$
 GAAA A A A A A G G G G G GAA $A \operatorname{AGCC} G G C A G G A G G C G G G G A A G A A G A$ GAGAAGGCCGGGGGAGCGAAAAAAAGAGACAAGGAAGGGAAA A T TAA A G A GAACCAAGGGGAGAGGGGAGAGGAGA GAAGGGAA A A A A A A A G GAGCC GAA $A \operatorname{AAAGAGGCCCACCAAAAAGAAAGCAA}$ $T G G C A A T G G G C A A C C A G A G G G A A A A G G A A G G G G A A A A C A A A G$ A G G G G A A A G G G A A G G A A A G GAG GAGGGAGAAGGAAAAAAAAA A G GAAA A CAA $A \operatorname{A} \operatorname{A} A A A A G A G G G A A G G G A A A A G A A A A A A G G A A A$ A G GAGAAAACCGGGAAATTGGGGAAAAGGGGGGGGAAGAAAG
 GAACAGAGAGGGGGGGGGGGCGGAAAGGGGACCCCCCAAAGG AAGAACCCCCAAGAGAACCAAAAAACCCAGAGGGGBAAAGGG G G G G G A A G G G G GAA $A \operatorname{A} A C C G G A G A A G G G A G G A A G G A G G A G A T$ TAAAAGAAAAAAAGAGAAAAGAAAGAGAAAGAGGAATCAAAA A G GAGAAAAGAGACCAAAAAAGGAAGAAACCCCAAAAGAAAG GAAAAGGGAAAGGGGAGCCGGCCAGCCAAAAAAAAAAAAAAG G G G G G G G C C A A G G A A C C G G A A G G G A A A GACC C A G GAC G G G G G GAAAACCAAAACCGGAGGGAGGGAAGGAAGGGGGGTAAAAAG A GAGAGGAAAACAGAGAGGGACCGGGGGGTTGGAAGAGACGC C CAA GCAGAGAGGAAACAAGAAGAAAAAGAAAGAAA GAAGAA A A G G G G G G G G G A C A A A G A A A A G GAAAA A $\mathcal{A} G G G G G A G G A G A A A A$ A G GAA A GAAGGCCAGGGCAAAAAAAAAGAAAAAA GAAAAAGG C G G G G G G A A C C G G A A G G G A G GAGGATTTTAAGGGGAAAAAA G G G GCC G G G G A A G G G G G G A A G G G G A A G GAA A C A A A G C C C C G G G $G C \subset A A A A G G A A A A A A G G A A G G A A A A A A G G A A G G A A A A G A A A C$ CAAGGAAGGCCAAGGAAGGCCACAGGGAAAGGGGAAGAGAAA A G G A A G A A A A A AC G A G GAAGGGGGGGAGGCCCCAAGAAACCB G T T A A G A G A G G A A G G G G A A A A G G A A A A G G C C G G A A A A A A G G A G G G A A G G G A A A G GCCCCAGGGGAGCAACCCCAACCGAAACCT A A GAGAAGGAAAAAGAAAGGGAATTAAAAGGGGGGAAGAGGG

GAGACAGGAGGAAAAGGGGAGAAGGACGGAGGGAAGAAAAAA A A A G G G G G GAA $A \operatorname{GA} A A A A G A A C A G A C G A G A G G G G A G A A A A T X A$ $A C C G G A A G A C C A G G A G G G G A A G G A G A A G G C C A A G G A A G A G A A$ ACAGAAAGATTGGAGGGAAGGACGGAAAAAAGGAAAACCGGA A GAAAGGGGAAGGAAAAGGAGGGACCAGAAGGAAAGGGAAAA G G GAA $A \operatorname{G} G \mathrm{G} A C A G A A A G G A A A A G G G G G A A G G A A C A A A G G A A C$ $A C C G A G G A A A A G G G A G A A G C A A G G A A C G A G A A A A A A A G A C A A$ AGGGGAAAACACCAACCGGCAAAGGGAGGAAAAGGAAGAGGA G G G G G G A A C G G G G G G A A A A G GACGGGGAAACGGAGAGGAAA G G G GAGGGGGGGAAAAGGGAAGGAAAGGGGGGAAAAGAGGCCC $A C C G G A G A A A G A G A G A G G A G A A A G G G G A G G A G A A A G G G G A G G$ G G G G G A A G G A G A G C C G G G A A A G G A G G G G G C C G G A G A G G G A G A A G GCCGGGAGGGGACGAATGAGAACAAAGGAAGAAGGGGCCG
 CACAAAAACGGAAGGGGAAAAAAGGCCGGAAGAGAAAGAAGA
 G G G G G G G C C G G GAA A G G A G A G A GAA A A G G C C G G A A G G G G A A $G$ G G GCCGGAAGGGGAAAAGGATGGAAGACCGAGGAGAGAGAAA CCGGGGGCCACAACCGAAAAAGGGGAACAAGAGAGGGGAAAA C T T C C A A A C C C G G G GAACGGAAAGGCCGGAAGAGGAGAGAAC AAAAAAAAGCACCGGGAGGGGGGAAGAGGAAAAACACAAGAA G G G GCAGCCAAAGCCGGGAAGGAAAGGGGGGAAAAGGACAAG ACCGGGGGGAGAACACAAAACAAGGAAAGAAAGAAGGGGGGG GAACCGGAAAAGGAAGAGGAAAAAAGGAAGGAAGAGGAGCCG GAACCAAGGGGGGGGGGGAAGGAGGAAAGGACCAACCAAGGG G G GAA $A \operatorname{G} G A G A G G G A A C A G T T G A A A A A G G A G G G A A A A A G A A G$ A G GAA A G G G G GAGGAACGAAGGAGGAAAAGGAAAAGGGGGCA G GACCAAAAAAGGAGAGAGCAGGGAAGAGGAAAGGGGCAGAC AAGCCAGGACAGGAAAAGGAAAGCCCCGGAGGGAGAGAAAAA GAGAAGGGAACGAGAAGAAAGGAAGCCAGGGGGAACACCGGC A C A G G G G G C C C A G A G G A A A A A G A G G G G A G G A G G G G G G G A A $\mathcal{A} A$ GAGAGGAAAGGGGGAGGAAAAGGAGAGAAGAGAGGGCAACAA G GAA $A \subset A G G A G G G A A G G A A A G A A G G A A A G A A A A G G G G A C A G G$
 G TATTXCGGGACCAGGGGAGAGGAAGGAAATAGGGGAAGAGG GAAGGGGAGAAGGGGGGGGCCGGAAGAAAGACCGAAGAGGGG A G GAA A G G G G GAGAGAAAGCGGGAAAAGGCCGAAGAAAGAAG GAAAAGGAAGAAACCGGGAGGAAAAAGAGGGGGAGAAAAAAA
 $A G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G A A A G A A$ AAAGGAAGGGGGGAACCCCGGGGAAAAGGAAGGCCCCGGGGA A G G A A A A G GAA $A \operatorname{G} G C X A A A A G G A A G G A A G G A A A A G G A A A A G G G$ $G C C C C A A G G C C G G A A G G G G G G G G G G A A C C G G C C A A A A G G C C G$ GAAGGAAGGGGAACCGGAAAAAAGGAAAAAAGGAACCAAGEC
 A G G A A C C G GAA $A \operatorname{GCC} C \mathrm{C} G A A A A A G G G G G G G G G A A A A G G G A A A A$ ACCGGAAGGGGAACCCCAAAAGGGGAAAAGGAAAACCGGCCG GCCGGAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTXGGG G G G G G A A G G G G G G G GAAGGCCAAGGCCGGAAAAAATTAAAAA A G G A A G G A A A A A A G GAAAAAAAAAGGAAAAAAAAGGAACCCCC CAAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGAAAA A G G G G A A A A A A G G A A A A A A G GAACCCCAAGGGGGGGGAAAA G G G G G G A A G G G G A A C C G G A A A A C C G G G G G G C C A A G G A A G G A A A AAAAAAAGGGGGGAAGGGGAAAAGGAAAAAAGGAAGAAAAAG GAAGGAAAAGGAACCAAAAGGAAAACCAAAAAAGBAAGGCCG G G G A A G G A A A A G G A A A A A A A A A A A A GGGGGGGGCCGAAAAA G G G G A A A A A A A A G G A A A A A A A A A A G GAA G G G GAAACAC G G G G G GAA $A \operatorname{T} \boldsymbol{T} G G G G G C C G G G G A A A A C C G G G G A A A A G G G G G G G G G G G$ G G GCCGGGGAAAAAAAAGGGGAACCGGAAAAAAAAGGGGGGA

A G G G G G G A A G G G G G G G G A C G G A A A GAC GACAAAAAT TAAAAA CCAAACACCGAGGAAGGGAAAGATAAGGGGGAAGGAGGGGGA GCCGAGGAGAGAGAGACAAGGAACAGCGAAAAAAGAAGAGCG GAGAGCCCAGGGAAGGGAAAAACGGAAAAAAAAAAGGGAAAC CAGAGGGAGAAGGAAGGGGGGAAGAGGAAGGGGAAAACAAAA A G G G G G G A G C A A A G A G G A A A GAGGAAGAGGAGGAA G G G A A G G A
 A G G G GAA $\operatorname{G} A A A A A C G G G G A G A A G A G A A C A A A A A G G G G G G T T G$ G G G A A C C A A A A A A C A G G G GCGCAGAAGAAGGCAAGAGGAA G G A G G GAGGGGCCAAGGGGAAAATTGGAAGGGAAAAAGACCGGC A A A A A GAGGAAAGGGAGAACCAAAAAAAAGGCCAACG
$C \subset G A G G G G A A G A A A C C G G G G G G A G G G A A A A A G A A G A A A G A A$
 A G G G A G G A G G A G G A A A A T T A A A A G GAA A A A GAA A GAAAAA A A ACAGAAAAGGGAAGGATACCCGGAGAGGACCCCGGGAAGGAC A G G G GAACACAAACCAAGGAAAAAAGAGAGGGGAAGAAACAG $A G G C C G G A A T A A G G A G G G A G G A G A A G G G G G G A G G A G A A A A A G$ G G G G G A G A A G G A A A A A A C C G GAA $A \operatorname{GGG} G A A G G A A A G G A A G A A A$ $A G G G G G G G G A G G G G G A C A A A A G G C C A A A A A G G G G G G A A G C A G$ A A A C C G A A G G G A A G G A C A A G A G A A G C C G G A A A A A A A G G A G A A CAGTAAAGGAAAAAAAACAAGAGGAAGGAAAACAGGAGAAAC AAACCAAACATAGAGAAAGAAGGAACCAAGGAAGGGAGGAGA A A G G A CAG G GACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAA A A A A A A A G A A G G A A GAAAAAGGGAGAGCCGGAGAAGGAGAAC CAAGGGAGGAGAAAAGAAAAAGAGGAAAAGGGACAAAAAAAG G GAACGGAAGAGAAAAACCGGGAAGAAGGAAGAGAGGGAAAA CAGACAAAAAGAGGGCAGGAGAAAGGAAAGAAAGGGAAGAAA GAAAAGGAGGACCAGGAAGGGAAAGAAAGCAAAGGAGAAGAG GAGGGAGAGAAGGGGAGTAAACAGGCCAGGACGGGATAAGAA AAAAAGGAAGGAGGAGGGGGGGGGAGAGAAGACAGGGAAABG G G G A G A GAGGGAAACAGGACAGGAAAGAGGAAACAGGCAAAA AAAGAGAAAAACCAAGAAAGAAAAAGGGGGGGGAGGGGGAGG G GCGGGGGGGGCAAGAAAACATAAAGGAAGGAGAACCAAGGG A G G A A GACCAAGAGAGGAAACAAAAAAAAGGAGTTAAAAGAA A A A A G G G A A G GCAAAAA A A TAA A A A GGGAAAGAAAAGGAACAC A GAGAAGGAAGAGAGGAAGCGCAGAAGGGAGAGGAGAACGAA $G C C A G A G G A A G A G A G G A C G A A A C G G G G G G G A C C A A A A G G A A A$ A A A C C G G G G G A A A G G G G G GATCCAGGGAACCCATAAGAGGGG GAGGGAAAAAGGGAGGGGAGGGGGGGGAACACAGAGGGGGGG GAAGGACAGAGAGAGAGAGCCAAAACCAGGGGGAAAGGAAGA C G GAAGGAAAAAAGACCACGGAGGAAGCAAAGAAAAAAAGGA AAAGGAAAAGGAAGAGGAAAGAAACAGAACGAGGAAGGGAGG GAAAGGGGAAGAAAGAAAAGGGGGAGGCCAGAAAAAAAGGGG G GAGGGGGGAAGGACAAAGAACCCAAAAAAAGGAGAGAAGGG A G G GAGGACGAGGAGGGGAAAACCCAAGGAGAAGGGGACCAA GAAAAAAGGAAAAGGAGAAAAAAGGGGAAGGAACCGBAAGBC CAAAACCCCCCAAGGAAAAGGAAGGAAGAAAGAGGGAAAGGG G G GCCAAGAGGCAAGAGAACCCCAGGGAACCGGAAGGGGAAA AACGAACAAGGAAGAAAAGAGGAAGAGGAAGAAAGATCAGAG GAGAGGAAGCCGAGGGGCCGGAAGGCCAGGGGGGAAGAAAAG G G G G G G G A A G G G G G G G G A A A GAC G G C CAA $\mathcal{A} G G G G G A A G A A A A$ AA $A G G G G A A G A G G G G A G A A A A G A G A A A A G A A G G G A A G G A A A A$ A G A A A G G A A A A A G G G G G A A A G A A A A A A C C A G G A GA G G A G G G G GAAGACCGGAGGGAAGGAAAGAGACAAGAAAGGGGAAAGGGA G G GCCGGAAGGAAACCGAGAAGGAAAGGGAGCCGGCCAGAAG GAAAAGGAAAAGGGGAACCAAGGGGGGGGCCAAGGAACAAAC CAAAAAAAAAAAAAAGGGGGGCCAAGGAAGGGGGGACAAGGG GAAAA $A \operatorname{A} A A A G G A A G G G G A A A G G G G A A A A A G G A A G G A A G G G G A$ $G C C A A G G A G A A A G A G A G A A G G A A A G G G G G A G G G A A A A A A A A G$

GAAACAGAAAGGGAGGGAAAGCCGGAGCAAAGAAAGGAAGAA A G GAA A A C C G G GAGAGGAGACGAAGAGAGAGGGAGGAAAAAA A G GAA $A \operatorname{GCA} T \mathrm{~T} G \mathrm{G} A C \subset C G G C C G A A A G G G G G A A A G G G G G G G G A$ GGAGGAACCAGGGAGAAGGAAGGAAAAGGGGAACCGGGGGGA AAAAGCCGGAGAAGGAAGAAAAGGGGGCCCAAAAAGGGACC G A GA $A \operatorname{GA} A \operatorname{A} G C C A A G G A A A A G G G A A G G G G A G G G G G G A A G G G G A$ A G G A A C C A A A A A A $\mathcal{A} G G G G G G G G G G G G G C C A A A A G G G G G G T T G$ G G G A A C C A A G G G G G G G GCC G G A A A A G GAA G GAACC G G G GAA $\mathcal{A}$ G G GCCAAGGAAGGAAAAGGAACCAAGGAAGGGGGGTTAAAAG G G G G G G G A A G G G G A A G G G G G G G G G G G G A A A A A A A A A A A A G G A ACCGGGGAAAAGGGGAAGGAAAAGGGGAAAAGGAAAAAAAAG GAAAAAAGGAAGGGGAAGGGGGGAAAAAACCAAGGATAACCC C C C G G G G G G G G A A A A G GAAC A A A A G A A A A GGGGGGAAAAAA $\mathcal{A}$ GAACCAACCCCAAAAGGGGGGCCCCCCGGGGGGCCAAAACCA A G GAAAACCGGAAAAAAAAAAAACCGGAAAAAAAAGGGGCCC CAAAAAAAAGGCCGGGGAAAAAAAAGGGGGGGGAAAAAAAAC CAAAAAAGGAAGGCCGGCCAAGGCCAAAAGGGGAAAAAAAAG G G GCCAAGGGGGGAAAAGGAAAAGGAAAAGGAAGGAAAAGGG GAAGGAAAAGGGGCCCCAAAAAAAAAAGGAAAAAACCGGGGG
 A G G G GAAGGCCAAGGGGAAGGAAAAGGCCCCAAGGAAGAAAA A G GCCGGGGAAAAGGAAAACCAAGGAAGGAAAAAAGGGGCAA AAAGGGGCCAACCAACCAAAAAAAAAACCGGAAAACCAAGEC
 GAAAACCCCCCGGGGGGGGGGGGCCAAAACCAAGGAAAAGGG G G G A A A A G G G G A A G G G G G G A A A A A A A A A A C CAAAAC A G GAA G GAAGGGGGGGGAAAAGGAAAACCAAGGAAGGCCAAGGAAGGG GAACCCCAAAAAAAAAAAACCAAAAAAAAGGGGAAAAGGGGA A G G G G A A C C C C G G G G G GAAAAAAACCAAGGAAAAAA GGGGCCG G G G G G G G A A A A G G G G G GAA A G G G G G G G C C G GAAAAA $A \operatorname{A} G G G G G G$ GAAGGGGAAGGGGGGAAAAAAGGAACCCCAAGGGGAAAAGAA A G GAA $A \operatorname{GGGAAAAACCAAAAGGAAGGGGGGCCAAGGGGGAAAA}$ AAAGGAAAACCGGGGAAGGCCGGAAGGGGGGAAAAGAAAAAG GAATTGGGGAACCGGAAAAAAAAAAGGAAAAGGAAAAGGCCG G G G A A A A C C A A A A C C G G G G A A A A C C A A A A G G G G G GAA A G G G A $A G G G G A A A A G G G G G G A A G G A A A A G G A A A A A A G G T T A A G G G G A$ A G G G G G G G GAAAAGGAAGGCCCCAAAAGGAACCGGGGAAAAG $G C C A A C C A G G G A A A A A A G G C A G A A A G G T T C C G A C C A C A A A G G$ GAGACCCAGAAAGGGCCGGAAAAAGGAGGGGGGAAGGGAAGA G G G A C G G G G A G G G G G G G G G G G G G G A G G A A C C A A A A G G A A G G A A G G G G GAAACCAAGAGGGGAGAAAAGACCAAGGACTTGAGAG A A A G G GAA A A G G G A GAGGAAAC $A \operatorname{AAA} A G G A A A G G C C A G A G G A A$ AAAAAGGAAGGAAGGGGCCGGAGGGGGAGGAGAACACAAAGA ACCGGAAAGAAGGAAGGGACAAAAAAAAAGGGGAAGAAAAC G GAAAGGGAAGGCCGGGAAGAAAAAGCCAAGAGGACAAGGGGG $G G A A A C A A G G G A G G A A G A G A A G G A A G G A G A A A A G A A A A G A A A$ $A G G A A A G A G G G G A A G A G G G G G A G G G A A G A G G A A G G G G G A G G A$ G GAAAAAGGAGGGAAAGGAGGAAGAAAAAGGAGGGAAGAAAA G G G G GACCCGGCCGACAGGAAGGAGAAGAGAGGGGGGGAGGG GAGGGCCGAAGAGCCGAACACAAACAAACGGACAAGAGGGGA G G A A G A A CAG GAAGGCCGAGAACGGGGAGGGCCGATTGAAAA C G G G G G G GAC CA A A A G GAGAAGGCCGGCCAACCCC G G G G C C C C C C C A G A C A A A A G G G G G G G G G G G G G G A A A A C C G G G G G G A A A A A A G G GAA A G G GAGAA $A$ AAAAAAACCGACAAGGAGGAAAAAGGGA GAAGGGGCAGGGGAGAGAGAGGGAAAAGGGGAAAAAAAAGGG GAGAACCGGGGCCAACCAAAGGGTAAAGAAGAGGAGAAAGGG GAAGGAAGGAAGGAAAAAGAGGGGGAGAGCAGAGGGGGAAAA A G G C A C C A G GAGAA G GAAA $A \operatorname{A} A A G A A C C G G A A G G G G G G G A A A B$ GGAAAAAGAGGAAAAAAGGAGGAAAGGGGAGTTCGGGAACAAA

A GAAGCCAAAAAAACGAAAGGAAGAAAAAGGACAGAAACAGA $C G A G A C A A A A A G G G G A A G A G G A A A C A G A A A C G G A A G G G A C G T$ TA $A$ A $G A A A G C A G G A A A C G G A G G G G G A A A A G G A A A A G G A A G G A$ A G G G G G G G GAAAAAAAAATAAAAAAGGCAAGGGAGGACCAGA
 A GAGGGGAAGAAAGGGAAAAGAGAAGGAGGGAGGGGAAAAAC A G G G G C C A A A A G G A A A A G G G G G G A A G G T T G G G G G G G A A G A G G G G G GACCCCAGACAGGAAGGAAGGAGAGGAGAGCCGAAAAAA G A A A A G G A A C A A G C C G A A A A A G G A G A GAAACGGGA GAC GAA G A GAGGAAGGAAGAAGGGAAAAAGAGGGGGAAAAGGAGGAAAG

G G GACGCCGGAAAGGAAGGGAGGGGGAGAGAACAGAAAAA G GAAAGACGGAGGGAGCCGGGGCCGGGGGGCCGGAAAAAAGAA A A A A A C A A A T T G A G A GAAAGGGGGGAGGGGGCCAAAAAAA GA AA GACAAAACAAAGGACAATTGGAACCAAGGGGAAGGGAAGG GAAGGAAGGGGAAAACCCAGAAAAAAAAGAGAGGGAAAAAAA $A G G G G A G G G A C A A A A A G G G G G A G G A A G A G A A A G A G A G G A A A A$ A G GCCCAGGAGAGACGGCAGAACGAGAAGAGGAGGAAAGGAG GAGGGGGACAAAACCGGGAAAACAAAAAACAACGGGAABAAA GAGCAGAATGGAGGGGAAGACGGAAAGGACCAAGGAGAAGGG GCCAACCAAGGAGGGAAAAAGGGGGGGCCGGAAAAGGCCGGA A A G GAGAGGCACCGACCGGAAAAGGGGGGGAAAGAGAAGGBA A A A G G A A A G GCGGGGCCAAGGCAGGGGCCGGAAGGGAAAAAA GAAGGGAAAGGAAGGGGAAGGGGGGAAGAAAGGAAGAAAAA G $G G G T T G G A G G A A G G A G G G G A A G A G A A G G A C A A A G G G G G G G G G$ GAAGGGAGAAGGAGGGAAGAGGGCAAAAGAAGGAAAAAAAAG $G C C A A G G A A G G A A G G G G A A A A A A G G G G G G G G A A A G G G G G G G G$ A A G G G A A A A A A G G A GAA A GAGGGCAAGCCAGAAGGA GAA G G G GAGCAGGAGAACAGGATGACGAAGGGACAGAGGAGAAGAAAG A G G G G G G C C G C G G A A G G G A A G A A A A G G C C A GA GA GA G G G C C G G A G A G A G G G G G G G G G G G GAGGAGAAAAAAACCCAAGGAAAA G G G GAAAAAGAAGAGGAGCCAGGAGAAAGGAAAAAAGGGGGGA A GAGGCCGGGAGGGAGAGAAAAAAGAACCGGGGAACCCAACC C C C G G A A A G A G G G A A G G G G G G A G A G A G A G G G G G A G A G G A G G G GAGGAACGGGGGGGGAAGGAAGGGGGAGGGGCCGGGGAAGAA A A GAGAGGAGGAAAAAAAAGGGGAGGGAGAAAAAAAAAAAAG G G G GAAACCGGGCAAAAAGGGAAGAGGAAGAAAAGAGGGGGG GAGGGGGAGGGGGAAGAAAGGAGGGCCAAGGAAAAAAAACCA A G G G A G G A A C C G G A A G G T T A A C C G G A A G G G G G G A A A A G G C C A
 GAGGAAGCCCAGAGGAGGGAAGGGGGGGACCGGGGAAGAAAB G G G A A A A A A G G G G G G G A A G G G C C A A GAAAAA A A G GACAAACA TGCGGAACCCCACAGGGGGAAGGAAGGGGAAAAGGGGGGCCC
 GCCCCGGAAAGGGAGAGGAGGAAAAGAAGGAAGAAGAAGAAA A G G G GCACCGGGGAAAAAACCCGACAGAAAAACAAAGCCAGB A A A C C G G A A G A A A A G G G A G G G G G G A G G A A A G G G A A G G C A G G A A A A A A G G GAACCCAGCCGGTTAAGGGAGGGACCAGAAAAGAA AAAGGCCAAGGCCGGGGAAAGGAAGGGAAGAGAAAAGAGGGG
 CAAGGGAAGCCTTCCGGACAAGGAGAGGGGAAGAAGGGAAGA G G GCA GAGGGCCAGGAAGAACGGGGGGAGCAAAAAGAAGAAG GCAGGAAAACAAGCCAAGAAGAGAGGAAAAACCAAAAAAABC C GAAGAAAACCAAAAGGAAAAAACCCCAAGGGGGGAAAGAGG GAGGGCCGGAAGGGGCAAAGGAAAGAGAAAACCGAGGAAAAC A GAGGAAAAAAAGAGAACAGGGGGGACGAGGGAGAAAGGCCG GCCGGGGGGCCGGGAGGGAACGACCGGGAGAACACAAAGGCA $A C A A A A A G A G A C G A A A A G A G G A A C C G G A G A G G A G A A G G A A A A$ A G G G G G GAAAACCGCAAGGAAAAAAGAAAAAAAGGCCAAGGG

GAAGGGGAAAAAACCAAGGGGTTCCGGCCAAAACCGGAAAAA
 AAACCAAAAAAGGAAGGAAAAAAGGCCGGGGAAAAGAAAGGA A G GCCAAAAAAAAGGAAAACCGGGGGGGGAAGGAATTGGGGA $A C C A A T T G G A A A A G G A A G G A A A A G G G G A A A A G G A A G G G A A A G$ GAAGGAAGGAAAACCGGGGAAGAGGGAGAGGAAAGEAACABA C G A A A A A G GAA $A \operatorname{GGGGG} \operatorname{GAA} G G G A G A G G A A C C A A G G A G C A A A A$ AAAAAAGAGGGGGAGCCAACAGACACCAGGAGGAAAAAGGGA A G G G G A G A GAA $A \operatorname{GA} A \mathrm{G} A \mathrm{G} A A A A A A A A C C G A G G C A A G G G A A A C A$ $C G A G A G A A A G A A G G G G A G A C C A G G A A A A A G G A A A A G A C C C C G$ A GAAAAAGGCAGGGGGGGAAACCAAAAGGAAGAGGCCAAGAA GAGGGCCGGGCGCACGAACAGCCGGGGGGGGAAACCCAAGGG ACCGAGAGGAACCGGGGAAAAAAGAGGAGAGGGAGAAAAAAG A GACCAGGAAACAAAAAAAAAGAAAGGAGACAGGGCCCCCCG AA $A G G A A T A G G G G G G G G G G A A A A A G A A G G A A C C G G A A A C C B A$ AA $A G A A G G G A A A A G A A A G G A A A A A G G A G A A A G G A A G G A A G G A$ GAACCGGAGGAAGAGAAGAAGGGAAAAGAAAAAGGGGGAAGA GAGAAAAAAGGAACCGAGGAAGGAGGGCCAAAACCGAAAAAG GAAAAAAAAAAGACCAAGAGGCAAACCGAGGGAAAGAAAAAA A G G A A A G A A G G A A A A GAGGAAAAAACCGCGGAAAGCCGAAAG GAAGGGGAAAAGAAACAAGAGGGAAAGAAGGAGGGAGAAAA G A A G G G A A G G G GCACCCAGGGAAACCAAGGGGGAAGGACAGGG GAGGGGGACTTAGGAGGCAGGAAAAGACAAACCGGGGGAAAG A A A A A G G A GAA $A \operatorname{G} \operatorname{A} A A G A G G A A G G A A A G C C A A G G G A C A A G G A A$ CAAGGGGACAAAGAAGGAAAACCAGCCGGGGGGGAAAAAAAC $C \subset C G G A G A G A A A A G G A G A A A G G A G A C G C C A C G G A G C C A G A A G$ AGGCCAACCGGAAAAGGGGAGAAAACCAAAAAACCAAAAAAG GAAGGAAAAAAGGGGGGGGAAAAGGAGGGAGCCAAGAAAAAG GAAGGAAAAGGCAGAGGAAGGAAAATAAAGGGGGGCCBAABA $G G A G G G A A A A A G G G G G G A A C C G G G G A A A G G G C A G A A A G A A A A$ GAGCCAAGAAGCCGGGGGGAAGGAGAAGGGGAAAAACAAGGG GAACCGGGGGGAAAAAGAAGGGAAAGAAAAACAAGAACAAAG A GAAGGAGGCCGAAACCGGAAAAGGCCGGAAAAACGAAAAAA $A C C A G A C A G G A G G G A G G G G G G G G A A A A G G A G G G C C B A A G A G C$ C G A A A A CAAGAAACCAAGGGGGAGGAAGGAAGGCCCAAAAAA G G G G A G G G A G G G G A A G G G A A C A A A A A GAA $A$ A A G G A A G G GAA $\mathcal{A} C$ CAAGAAAGGGAGAAGCAGGAGGAAAAACAGGGGAAGAAACC G G GACCGGAACCGGTTTTAGATACAGAAGGAAAAAAAAGAAAA A G G C C G A A A G G A A G A A GCC GAAAGAGGGGCCCCCAC GAAGGG
 AAAAAAGCCCCAAGGAAGGAAGGGACCAAAAAGAACCGGGGA AAAGGAAAAGGAAGGAAAAAAAAGGAAAAAAGGGAGGAAA G G $A$ GAGGGAAAAGGGGAACCCCAAAGGGGAACGAACCCAGAAGAA G G G G GCC G G G G G G A A G G A A C C C C G G G G G G C CA G A A G A C C A G G A GAA A A A A GA $A \operatorname{AGGGAGGAAGGGAGGCAGGGGAAAACCGGGGA}$ GACAGCCAAAAACAGAAAAGGCAAGCGAGCCGGAAAACACAG G G G A A A A A A A G A A A A A A A A A A G GAAAA G GAAC CAA A G GA G G G GAA A G A A A G G G A A G G G G A A A A G G A G G G C C G G C C A A G A G A G G G ACAAAAAAATTGGACGGCCGGAAGAGAAAAGAGAAGGGGCCG GAAAAGGGAAGCAAAGACCAGTAGGAAAAGGGGGGAGGAAGG
 A G G G A G G A A C C G A G GA A G G GAA A G G GAGGGAGGAGG GAAC A A G A T A A G G C A G G G A G G A A A G G G A G A A A A A A G G G G G A C C A G G G A AAAAAAACCCCGGACGGGGAAGAAGAGGGGGAACCGGAAAAG G G G A A A G A GA G G G GAGGAAAAGGGGAAGGAAGGAACCABAAG G G GCCCCGGGGAAAACCAGACGAGAGGCCGGAAGGAAGGGGG GAAAAGGAAAAGGGGGGGGAAACGGGGAAAAAGAAGAAAAGG G G GAG GAAAAAGGAAAAAAAAAAAAGGAAGGAAAAAAAAAAAG G G G G GAA $A \operatorname{A} A A A A G G A A G G G G A A G G G G G G C C G G A A G G C A A A G$

G G GAAAAAAAACCGGAAGGGGGGGCCGGAACCGGAAAAAAG
 C T TAA $A \operatorname{GAA} \mathrm{~A}$ GAAAAAAAAAAAGGAAGGGGGGGGGGGGCAAA$G$ G G GAAGGCCGGGGCCGGCCCCAAAAGGAAGGAAGGGGCCGBA AAAAAAAGGAAGGGGCCAAGGAAGGGGAAGGAAGGAAGGGGA A A A A A CCGGAAAA G GAA $A \operatorname{A} G A A A A C C C C G G G G A A A A G G G G G G G$ G G GAACCAAAAGGAAAAAAGGAAGGAAAAGGGGAACCBAAAA A G G A A A A A A A A A A G G G G G G A A A A A A GGCCAAGGAAAACAAA $\mathcal{A}$
 A G G G GAAAAGGGGAAAAGGGGGGAAGGAAGGGGGGAAAAAAA A G G A A G G G G A A G G A A G G G GCCAAGGAACCCCCCGGAA
G GCCGGGGAAAAGGAAAAAAAAAAGGCCGGGGAAGGAAAAC CAAAACCGGCCGGAAAAGGAAAAGGAAAAAACCGBAACCGGG G G G A A G G C C A A A A A A G G G G G G G G A A A A C C G GAA A GAAAAAA A G G G G G G GCCGGAGAAAACCAACAGAAGAAACGGGAAAGGGCT TGCAAAAAAGGGGGGGGCCAAAAAGAGGACGGGCAAAGGACC C G GAA $A \operatorname{GA} \mathrm{~A} G A C C A A A G G A A G G A A G C C G A A G C A G A A C G A A G A$ GAATAGAGAAAGGGGGGCCAAGGGAGGGGAAGGGGGAAAGGG GAGGGGGGACCAGGACCCCCCGGAAGGACGGGAAAAAGGGGA GAAAAAAAGGGAGTAGAGGAAACGAAAAAAAAAGGGGGAAAA $G C C A A A A A A T T G G C C A G C A A G A A G G A A A A A A G G G G G G G A A C A$ A GAGGGGACAGAGGGAGGAGGCAAGGAGAGAGGAAGGGACAA
 G G G A A ACCCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAAAA A G G A A A A G GAACCGGGGAGAAAAGGGGAAGGGGAACCAAGAA A A GAAAAAATTACAGGGGGAAGGGAAGGAAGGAAGAGCAAAA G GACAAGGGGGGAGGAAGGCCAAAACAAAAGAGAAGCGAGAA GAACCGGGGAAAGGGGGGAAGAGAGAAAAGAGAACAAGAGGA A A A A G G A G A A A GAGGGGGGCCGAGGAAGGCCCAAGAAAGGAG C G G G GAGAGGGCAAAGAGGAGGAAAAGCCGAGGGAAAGAAAA C A A A A A A A A G G A A G GCCCAAGAAGGAGAAAAAAAAGGCCAGA $C G G A A C C C C A A A A G G G G G G A A A A G G G G A A G G T T G G A A G G G A G$ G G GAGGGAAAAAAGGAAGGCCCCAGAGGGAGAGAGAAAAAAC C A A A A G A G A G G A A G G A A GA $\mathcal{A} G G G G G G G G G G G A A A A G A A A A A A$ A A A G G G G G GCC C G G G G G A A G G G G A G C A A G A A G G A A A G G G G G A G G GAC GAGGAAAACACAGAAGAAAAAGAAGGGGGGGAAAACBG AAGACAGAAGAGAAAGGAAAAGGAAAAAAAAAAAAAAAAGGA AAAGGAAGGGGAAAAAAGGGGGGGGGGCCAAAAGGGGCAGGA A G GAA $A \operatorname{GA} A A A C C A A A A A A G G C A A G A A G A G A C A A G A G A G G G G$ GAAGGAACCAGCAGGAGGAAAACGGAAAAAAGGACAGCACCA A G GCAGCGGGAGGGGAAAAAAAGAAAACCGACAGGGGGATAC CAAACAGACGGAAGGAGAAGAGGCCGAAGAAAGACGAGAGAA C C C G G G G A C A A G G G G G GAGAGCCGGAGGGAGGAAGAGAAAA G G GAA A G GAGAGAGACAAGGAGAGGGGGGGAAGAGAACGETXA A A G G G A A A A CAAGGGCCGGGGCCAGGGGGCAGGCAGAACAAA G G GAAGGCCAGGAGGAAGGGGAAAACACAAGCAGAGGAAGAA GACAGCCAGAAAAAGAGGGGGAAAAAAAGGAGGAGAGGAAAA C G GA GAAAAGGGGACAAAGAACCCCAAGGAAGGGAAGGGGGC $A C C G G A A A G G G A G G A A G G G A G C A A G G G G A A A A G C C G G A G G G G$ GCCAGAGAAAGAGAGAGACAGAAGGGGAGACGGAGGGAAAGG AAAGGGAGAGGAGAGAAAGAGGAAGAGAGAGGGAAGGAAAAA AA $A$ A A GGCCCCCCGGGGACGAAGGGGAAGAGAAGGGGGAAAG G GAACGAAAACAAAGAAAAAGCCGGAAAGAGAGAGGAGAAAG G G G GAA ACCAAGGAAAATAGGAGAAAAAAGGGGAGAGAAGAA $A G G G G A A A G G A G G G A A G A A A A A G G G A G G A G G A G G G A A A A A A A$ CAGGAAGCAGAGGGGGGAGGGGCAGAGAGGGAGGGGGAGGAA A GAG $A \operatorname{GG} \operatorname{GA} A G A C A G G G G A A A G A G G A G G A A A A G G G G C A A A A G G$ $A G A A G G A G G G A G C G G G G G A G G A A A G A G A A A G A A G G A A A G A G C$ $C \subset C C G A G A G G G A A A C G A C C G G G A G G G A G A A T G G G A G G G G G G A$

AAAGGGAGGCCGGAGACGAGGAGAAAACCAAAAGGGGGAGGC AAAGAAGACGGGGAGACGGAAAAGGGACAAGGAGGAGAAAAA ACCGGGGACGAAGCGGGGGAAAAGACCGGGGGGAGAAGAGAA A GAGGAGGAAACCAACCGGAGCCGGGGAATTGAGGAAAAGGA AAAGGCCAACCAAGGAACCCCAAGGGGGAGGGAAAGGAAAAG $G C C A A A A C C A A G G A G A G A A A A A A A A G G G G A A G A G A A G G A A C C$ C G GACCAGGCCAGGAGAGGGGGGAGCCACCCGAAGGAGAAAG G G G G G G G A A G G A A A A G G G G G G C C A A G GAAAA A C C G GAACAAA A A G G G G G G G G G G A A G G C C G G G G G G A A C C A A A A C C G G A G G G C C G G G G A A A A G GAGGGGGGGGGAAAGAGGGAGACGGGAGGACGBA $A C C G A A A A C G A G G G A A A C A A C A G G G G G G G C C G A A A A G A A G G G$ G G G G G G G A A G G A A G G C C A A A $\mathcal{A} G G G G A G G A A A G A A G G G G G G G G$ A A G G A GAGGAGGGGGGGGAAGCCAAGGGGACGAAGAGABAAG G GAAAAAAGAAAAGACAAAACAGACAGAAAAAAAA GAGGGGG GAAGGGGAAAAAAAAAGGGAAGGGGGAAAGGGAGGGGACAAA AA $A G G A G G G A G A A A C C A A A G G C A G G G A A G A A G G A C A A G A A A G$ ACAAAAAAAAAAAAGAAAAGGCAAGAAAGAGGAGAAGGGGGA A G GAGACAGAAGGAAAAAAAAGAAGGGGAGAAGCAGAAAAGG $A G G G G A A G A G G A A A G G G A G G G G G G G G G A G A G G G A G G A G A G G G$ GAAA A G G A A A GAGGGGGGGGGAAAAAAAAGGAAGGGGAACAA A G GAAAAAAGGAAGGAAGGAAGGGGGGAAGGAAAAAAAAAAC CAAGGAAGGGGGGCCGGGGGGCCAAAAAAAAAAAAAAGAAAC CAAAAGGGGGGAAAAGGAAGGAAGGAAGGGGGGGAAGAAAAC CAGAACACAAGGGAGAGGGGAAAAGAGAAGGGGGGGAAAAAA C A A A A GAG GAGCAAGGGGAAGAGAAAAAGAGAACAAGAAAC G GAGAAAGGGCAGGGGAAGAAGGAGAGACCGAAAAAGAAGAGA GAGGGCAAGGAGAAGAGAAAAAGAAGGGGGGAGAGACCAAAA A A GAGGAGGACGGAGAAGAAGAAAAGAAGGAGGAAGAGACAG GAGAAAGAAGGGGACAGGAAGAGAAAAGAAAGGGGGAAACCG A GAGACCGGGAAAAAAAAAAAAAGAAGCAGAAAAAAAGGGGA A A A A A A A A A A A G G A A C C GGGGCCAGGGAAAAAACCGGAAGAA GCAGGGGAAACGGAGAGGGAGGAACGGGGGGAACCACGGGGG GAAACGGAGAAAGGAGAGAGGCCAAAACCGGAAGGAGAAAAA GAAAAAGAGAGAAGGAAGGGGAAAGAAGGCCCAGGGGGAAAC CAAGGAAGGAAAGAGGAGGCCAAAAGGGGAAAAAAAACAAAA A A A A A A A G G G G T T G G G G A A G G A A A A A A G G G GAAAA A C G G C C C CAACCGGGGGGAAAAAAGGAAGGGGCCGGGGCCGGGGCAAAA AAAAGGAAGGGAGAAAGGAGGAAAAGGAGAGAAAAAGGAAAA
 A G GAA A GCCAGAAAAGGCCGGAGAAAAAGGACAAAACGGGGG A GAGAGAGGGGGGAAGGAAAATTGGGGAAGGAAGGGGGAAAA G GAGAAAAAGGAAAACCGAAGAGGGAAGGGAACAAACGAGGG GAGAGAGCAGGGGCCGGGGAAAAGGAAAAGGGGGAGAAAGAA G GACCGGGGGGGGCCGGAAGAGAAGGACAACAGGAACACGGG GACAAAGGAGGAGGAAGATAAAAGGAGAGGAGGGGAAGAGGA
 GAGAAAAGGGGAAGGAGGAAAGGGGAAGGAAAGAA GAAAGGAG GAACCACCCAACCGGGGGAAAGGGGCCAAATGGGGAAAGAAA GAAGAGAAGGGAAGACCGGGAAAAGAAGGGGAGAGGGAAAGA C GAAAAGCCAAGGAAGAAGAAGAAAGGAAACGAAGAAGAGGC AAAGGAAAAAAAAGGAAAAAAAACCCCAACCAAAAAAAAA GA GAGGGAAA $\operatorname{A} A A A A G A G G A A G G G A A G G A A G G G G T T C C G A A A A G A$
 A G G G GAACCAGGGAAGGAAAAAACAGGCCAAAGGGAAGGAGG G G GAGCCCCGGACGGACAGAAAAAAAGGAAGGAGAGGCAAGG GAAGGAAAAAAAAGGAAAAAAGGGGAGAAAGGAAGAAAAACA A A A A A A A C C G G G G G G G G G G A A A A G G C C G G A A G G G G A A A A A A GAAG $A \subset C G G G G G G C C A A G G G G G G A A G G G G A A G G C C A A A A A A G$ GAAAAGGGGGGCCGGGGAAAAAAGGAAAACCCCGGAACACCG

G G GAAAAGGAAGGAAAAGGGGAAGGAACCCCGGGGGGGGGGG
 G G G A A G G G GAA $A \operatorname{GCC} G G G G A A G G G G G G A A A A C C G G A A G A A A G$ GAAGGGGGGGGAAAAGGAAAAGGAAAAAAAAGGGGCAGGGGG G G G G GAACCCCAAGGGGAAGGAAGGAAGGAAGGAAAGAAAAA GACGGCAGGAGGGAACAGGGGCCCAGAGGCCCCAACCAACCA AA A GAGGGAAAAAAAAAGGCGGGAAAAAAAAGGAAAAGAAAA AAACCCCGGACAAGACAAAAAAAAAAAAAGGGGGGGGTTGGG G G A A G A A A A A A G G G G G G A G A A A A A G G G GAAC GAA A A G GAACA AGGGAAGAAGGGGCCAAGGGGGAACAAAAATCAAGAGAGCAA A A GAGCCGGGGGAAGAAGGCCAGGGCAGGAGAAAGAA
CAAAAAGGAAGGCCAAGGGACCAAGGGGAAGGGAGGGGGAG GAGCCAGCCAACCAGGGCCCCCCGGGAAGAAAGGGAACAAAA G G A A A A G G G A A G A G A A G G G C C G G T T A G G G GA G G G G A G G GA C A GAGGGATGGAAGAAAAGAAAAAAGGGGGGAAGGGGGAAAGGG A G G G G G GA GATGGGGAAAAAGGGAAGGGGGGAGGGAAAAAAA GAAGGCCGGAGGGAAGAGGATAGGGGGCCGGGCAGCCAGGGG GAAAACCAAAAGAAAGAGAGGGGAGAAGGAGGGGAAAGAGAG AAAGGGGGACAAGAGAGAGGGAGAGGGGACAAAGGACGAGGG
 A A A A A G GACGGAAAAGGAAAAAAGGCAGAGGGAACAAGAGAA G G G GAGCAGAGCAGGGGGGAAAAGGGAAAGGAAAAGGGAAGA GAAAATTGAAGAAAAAATTAAGGGGAGAGAGGGCAGAAGAAG GATACAGGAAAGGAACCGGAACCGGGGGGCAGAAGAGGACCG GCCAGGGAGAAAGGGGGAAAAGGCCGGAAAACCGGGGGGCCG G GACGCAGGAACAAAAAGGAAAAAAGGGGGGGGAAGGGGTTG G G GAACCAAGGGGGGGGCCGGAAAAAAAAAAAAGGGGGAAAA A G GCC $C$ G C C C C G G G G G G G G A A A A G G G G G G G GAAC C A A A A A A A A ACCGGAAAAAACCGGGGGGGGGGGGGGAAAAGGAAGGGAAAT TGGGGAAAAGGCCAAGGGGGGAGAGAAAACCAAAA GGGGGGG
 GACCCGGGGGGGAAGAGAAAACCGAGGGAAGAGGGAAGGCCA GAAAACAGGGGAGCAAAACAACCTACCGAGAGAAAAGCAAAG GAACGAGGGGGAAAAAACCGGGGAAAAAAACAAGAAGGAAAA
 GAAGGGGGGAAAAAAAACCAAAGATGAAAAAAAAAAAAACAA A G GAA A A A GAGACACAGGGCCAAAAGGGAGGAGGGAACACAA CAGCCGGGGGGAAAGGAGGAAAACCGGGGGGAGGGGGAAGAA A GAGACAAAAAGGAGGGAAGAAACCAAGGGAGAAAAACAGAA AAAGGGAACGGGAAGAAAAGGCGAAAAGGAAAAGAGAAAAAC A A A A A A A A ATTCAAGGGGAAAAAGAAGGAGGAGAAAAAAGAA GAAAAAGGGAAAAAGGGAAGACCAACCAAGCAAACACGGGGG GAAAAGGGGCATTGAGGGGCCGGAAAAAACAAGAGAGAGAAC CAAAAAAAAAACCAAAAAAAGAGAAGAAGGACACGAAGGGGA AAAAAGGCCAAGGAACCAAAACCCCAAGGAAAAGGGGGAAAA A G G G G A A A A A A G G G GAA $A \operatorname{GAAACCAAAAAAAAAGGGGGGAAGGG}$ GCCGGGGAAAAGGGGAAAAAGAAAAGGAAAACCAACCAAGGG G G GAAGGCCAGAGGGAGGCAGAAGAGAAAAGGAGGAGCACCG GAATAACGGACGAGGAGAGGAAGACGGGGAAAA GGAACCGGG A A A G GACAAAGAGAAGGAAAAGAGAGAAACCCCAAGGAGAAA A G G G GAGAACCAAAAAATAAGGAGAAACCAGACAAAAGAAAA AAAGGCAGGAGCAAAAACACCAGAGGGAGAGAGGGCACCGGA A G G G G A G C A G G G G A A A A $\mathcal{A} G G G G G G A G G A A A A G G C C A A A G G G G$ AGGAAAACCAGAAGGAGGGCCGGGGAAAAAGAAGAAGAGGGG A A A A A G GA $A$ A $A G G G G A G A A G A G G G A G A A C A A G G G G G G A A G G G$ G G G G G A A G G G A A G G A GAGGAGGAGGAAGGCCCCAA GAAA G GA A G GCAACGGGGACAGAAGAGGGGGGAAAACCAACCAAGBCAA A A G A A A A A GAAAGAGAGCCGGCCAACCAAGAAAAAAAGAAAG $G C A G A A C G G G G A T G G A G G A A G C C A G G G G A G G A A A A G A A A C A A$

G G G G GAAGGCCAAAAGGAAAAAAACGGACAGAGAAAGAAAGA A A A A G G A A G A A A A G GCCGGGGGGCCAAGGCAGGCCAAGEAGG CAA A G G GA G G GAAAAAAGAGAAGAGCCGAGAGGGGACAA G GA $A C A G G A G G G A G A A G G C C A A G G A A G G A A C C A A G A A A C A G A A G G$ $G C C G G G A A G A A G G A G C C A G C C G G A G G G A A A A A A A G A G G G A G G$ G G GAAGGAAGAAAAAAAAGACCCGGGACAAGAAACAAGAGAA AAAGGCCAAAAGAACGGAAGGACAAAAACGGGAGGGACAGGG G G G G G G G A A G G A A A A A A G G GAAAAAGGAAAGGGGAC GAAA G G G G G G A A A A G GAGAACGAAGGCCGGAAGGAAAAGGGGAAAACAA A G G G GAAAAGGAAAAGAGGAAAAGACAGGGAGGGGGGGAAGA G $G A G G G G G A A A A G G G G A A A G A A G G G G A G G G G A A G G G A A A A A G$ G G A A A A A G GAA $A \operatorname{GAA} A G C C C C A A A A G G G G C C G A G A A A A A C B C$ C GAGAGAAAAAAAGGCCGAGGACGGAAAAGAAGACAAAGCAA C G GAGAGCAGGAAGGGGGGAAGGCCACGAAAGGAAAAAAGGG G G G GAGGAAAGCCGGAAGAAAGGAAGGAGAGAGCAAACAAAA A G GAAA A A G GATAAAGGGGAGTAAAAAAGAGGGAACCAAGAG GAAGGAAAAAAAAAAAAGGAGAAAACCACGGAAGAAGABAAG GAACAGGGGGGGGGGAAGGAAGGAAAAGAAGGGCAGAAGGAA GGGGAAAAACCAACCGGGAAAGGCCGGAAAAAAGGAGGGCCB ACAGGAAAAAAGGAAAGAGGGAGAGCCGGAAAGGGAGAAGGA $C G G G A C C A A G A G G G G A G G G G G G G G G A A C C C C A A A A A A G G C C G$ G G G G G A A G GAA A A A A A G G G C G A A G G G G G G A A C C G G G G A G A G G A A GAAAGCCAACCCCGGGGAGGGAGGGGAAGGGAGGGEAAGC CAGGGAAAGAACCAAGGGGAAAACAAAAAAAAAGAAGAAAAG GAAAAAAAAAACCGGCCCAGGGGAAGGGGGGAAGAGGCAAAC C G GAAAAAAGAAACCAAAACAGAGAAAGGAAAAAAGAAAA G G $A$ G GAGGAAAGAGACAAGGGGGGGGGGAGAGGGGGGGAAGAAAG A GACACCGGCCGGAAGGAAGAGGCCAGTTAAAAGAGGCAGAG GAAAGAGCCGACGAGCAAGAGCAAGAAAAGGGGGGAAAAAAC CAAAAACAGCCAAGGAAAAGGAAGGAAAAAGAACCAGGGGAA GAGAGGGAAGGAAACCCGGAGCCAAGGGGGGGGCCGBAAGAA A G GAAAAAGACAAGAAGACGAGGAGGGAAAAGGGGAAGAGAG A A A A A A A G A A A A GCACCGGAGAGGGCCCCAGGGAATAGAGAG A GAGGGGAAAGGGAAAGAGAAGAAGAAGGAAGGGGCCAAAAA A GAGGGGCCAACCAGCAGGAAGGAAGGGGGGAAGGGGGAABA A GAGAAGCAGGAGGGGAAAAAAAGGAGAGAACCAATTGAGAC CACAAAGAGGGAGCCGGAAAGGAAACGAACCGGGAAGCCGGG GCAAACAAAACCAGAAAGAAGGGCCGGGAGGCCCCCCCAAGAA AAAGAGGAACCAGGAAGGGGAAAAAAGAAGGAACCGGGAABAA A A A A A A A A A A GAGGACAAAAACCCCAAGGGGGGACGGAAAAC C GAAAATGAGACCGGAAAAAAAAGAGGAAAGCCAGAGGAAAC
 G G G G G G G G A A A A A G GCCGGAGACCCAAGAAGCAAAAAAGGGC AATGGAGAAAAAGGAGGGGAAAGAGAGGGAAAACAAGAAGGG GAGACAGGGAAGGAAGGAAGAGGGAGGGGAGAAGGGGGGGGA A G G G GCC G G G A A A G A C C G G A A G G A G G A A A G G T T G G G G G G G G C AAACAGGGAAAAAGGGGAGACAAGGGGGGCCCCCAGGAAGAG A GAAATACCGAAACCAGGAGGAGGGAAAGCCAGGGGGAACAG GAACCCCCCGGGAAAAAAAGGAAAAAAGGAAGGGGAGAAAAG G G GCAGGCCAACCAGAAGGGAGGAAAAAAAGAAGAAAACA GA C G G A A G G A A G A A A G GCCGGGGAAAACAGGGAAGGGAGGAGGC C GAAA $A \operatorname{A} A A G G A G G G G G G G A A G A G A A G G A A G A A C C G A A A G G A$ AAAGGGGGGAAAAGGAAGGCCGGAAAAGGCCAACCGGABAAAA A G G G G G G G GAACC $\mathcal{A} G G G G G G G G G G G G G A A A A A A A A T T A A C C G$ GAAGGAAGGAAGGCCGGAAGGGGGGGGAAAAGGGAAAGACAA ACAAAA A A GAGGGGGAAGGAGGGCCAACAGAGGGGGGACAGA A A A A A A A G GAGAAGGAAGGCCGGGAGGGACCAAGGAAAACAG G G G C C G G G A A GCC G GAGAGAAAAAAGGGGAAGAAGGAAAAAA $A C C A G A A G G A A A A C C G G C G C A G G A G A A A C G A G G G A A A A G A G C$

A A G A A G A G G G G G G G G A G G A GAA $A \operatorname{AGGGGAACAGGGAAGGAAGA}$ A A A G A G G G G G G A G A G G G GAGGAAAAAAGGAGAGGGAGAGCCC AA GAA $A \operatorname{A} A A C C C C G A A G A C G G A G G A G G G A A G A A A A A A G G T T A$ GAAGGAAAGGGCCAGAGAGCCAGAAGAGGCAAAAGGGGGAGG GAAAAAACCCCAGGGGGGGCAAACCCAAAGGAAGGAAAAAGG GAAAGAGGAAAAGCCAGGAGGGACCCCGAGAGACCGGCCGGA
 G G G G G G G G A A C GAA A A CAGGGAGACGGAACCGGAGGAGAAGG GCCGGGGGGGAAGACAGAGGGAGGAAAAAGAAAGGAGCAAAA A G G G G G A T T G G G G G A G GAA $A \operatorname{GGG} G C A A A A A A A A A A A G G G G G G G$ GAAAAGGGGGGGGAGGGAAGACAAGGAGACAAGGGAC
A GCCGAAAAGGAGGCCAAAAAAGGAAGGGAAAACACGACCA $A G C A A C C A A A G G G G A T A A A C C G G G G G G T T A A G A A A G A G G A G C$ A G G A A A A G A G G A C G G G GAACCAAGGAAAAGGAAAAGACAAA G GACGAAGAAGGCCGAGCAAAGGAAGGGAAAAAAAAGAAAAAG AA $A G A G A G A C A A A G G G G A A A G A A A A G G G G A C C A G G G A A A G A G$ A GAGAAAAAGGAACCGGGAAAAGCCAGAACCGAGGAGAAGAA A G G A G GAGGAAGGAAAGGAGAGGGAGAAAGGAAAGAAAAAAA $G G A A G A C A A A A A A G G G A A A G G A G A A A A A A A G G G G G G A C A A A A$ A A A G G A A G A G G A A C G A G G A G A G G A A GAAAAAA A A A A G G G G C C A A G G G G G G G G G GAAGGAAAGGGACAAAAAAAAAACCAAAAAGA A A A A G A A G G G G G G G G G G CACAGAGGGGCAGAGAGGAACAAAA GAAAGAGGGGAGAGGGGAAAAGGGAGAGACAACGAGACAAGA C C A A A A A A A GAGGAGAGGGCCAAGGCAGGGGGGGGAAAGGAA A G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGACCA
 AAAAAGAGGGGGGCCGGGGCAGGGAGACAGGGGAAGGGGGGA A A G GAGACCAACACAAGGGGGGGAAAAGGGGAAAAGGAGAAA A A A G G TA $\mathrm{A} G \mathrm{G} G \mathrm{G} G A A A A G A A G G A A G G A A A A C X A A C C G G G G G G G$ GACAGGAGAAGGAAAGGGGAAAAGAGGGGCAGACCAAGGGGA A A A G G G G A A A A G G G G G A C C A A G G G G G G A A G G G A A G A G A A G G G GAGAAAAGGACAAAAGGGGAGCCGGGGGGGGGAGGAAAAAAA CACACAGGGGGAGAGAGGAGGCAGGGGAGCCAGAGAGGAGAG
 A G G A A G G G G G G A GAGCAGAACCCGAAGAGGGAAAAAACAAAG G G G GACCCCAAAAAAGGGACAGGACAAGAGGGGGAAAGGGGA GACGAGGGGAGAACCGGAAAACCGGGGACAAAACAGGGGTTG G G G GAA ACCGGGGCCACGGAAGAAGCCAAGAAAAACCAGGGG G G GCCAAGAAGGAAGGAGGAAGAAAAACCGAGAAAGAAAGGG GAAAAGGCCAAAAGGAAAGGGAGAAGAAAGGGAACBAAGAGG GAAGGAGACGAGGAAGGGGAAGGGGGACCGAAGAGGAAAGAG G G G A A C C C C G G G G A A C C G G G G G G G G A A A A A A A A A C A G G A A A A AAAAACACCAGAAACGGGGAAGGGGGGCCAGACAAAACGAGC CAACCAAGAGGGAAACCGGGGACGAGAAACCGGAAGAACA GA
 A G G A A A A G GAA $A \operatorname{GGGGAAATGGAGGGAAAAAAAGGAAGAAAAG}$ G G G A A A A G A A G A C A A G GACAAGGAACCAACCGGAGGGGA A A G ACAGGGGGAAAGGAGGGAGAAAAGGAGAAGGAAAAGGAGCAA GAAAAAAAGGGACAGGGAAAGGGATAGACAGGACCGAAGGGG GA $A$ A $A G A G A G G G G G G G A G G G G A A G G A A C C G G A A G G A A A G C C A$ A A GAGGGGGGAAACACCAAAAGGGCAAAGAGACGGACAAAGC C GAGGAAGGCCAAAAACAAGGAAAAGGGGGGAGAGAAAAGGG GCCTTGGAAGGAAAAAAAGAAAGAGCCAAGGAAAACCAAAAG GGACCGGGGAAAAAAGAGGGAAAAAAAAGAAAGGGAAAAGGG G GAAAAGAGAAGAAGCCGGAGAACCGGAAAAGGAAAAAGAAA A A GAACCCCCCGGAAACACAGAGAGAAGGGGGGGGGAAAAAA ACCGGAAGGAAAAGGACAGAACCGGGAAGAAGGCCAGGGGAA G G G G G A G G G G G A A G G G G C C G G A A G G G GAAAAAA A A A GA A A A A A GAGAAGGGGAAAAACGAAGGAGGGGGAGGGGAGGGCCAAGGC

C CAGGAAAGGGAACAAAGGGAGAGGAGGAGGAAAACCGAAAA A A A A G A A A A A A A A G GCC G G A A A A G G G GAAA A GAGGAGTAAAA $A G G G G G A A G A G G A G C G G G G A G G G G G A A G G A A G G G G G G G G G G G$ GGGCCGGAAGGAAGGAAAAGGGGGGAAAAAAGGAGGAGAGAA
 G G G A A A A A A G G A A A A G G G G A GAGCCGGAGAAA GAAACGGGGA AACGGAAAACAGAGAAGAGGGAAGGAAGGGGAAAAGAAACAA A G G A G A A G GCCAGGAAAGGGGGGGAAGGAAAGGGGGAACAAA
 C G GAGGGAGGAACACAGCCAGAAAGGAGAAGCCAGACAGGAA G G GCGAGCCGGAAGAGGGGGAAGAAGAAGGGGGAAGGAAAAA A A A G G G G G G G G A G A G A A G G A GAGGGGGGAAGGAAGAGAAGAG G G G GACAGAAACAGGAAGGAGAAGGAAGGAAACGGGGGGGGG G G G G A G G C C A A G G C A G A G G GA G G A C G G G G A G G G A G G G G G G G G G G GAA A A A A A GAGGGGAAGAGAAAATACCCAGAGAGAGAAGG
 A G GAAA A A A G GAGGGCCGAGGAACCGGGGGGGGGGAAAAGGG G GAAACCCCGAAAATAACAAGCCAAGGAAGGAGGAGAGAGAA AAAAAAGGGAAAGGGACGCGGAACCGGAAAAAAGGAAGAAAG GAAGAAGAGCCGGAAGGACAGCCAGAAAAGAGAGAAAAAGGC CAAAGAGAAGGCCGGAAGAAGCCAAGGGGAGAAAGGAGGAGG
 G G G G G G G G G G G A A A A A C A G GAA A G G C CA $A$ G G G G G G C C C C C C C CAAGGCCACCCGAAAGGCGCACAAAGAAAGGGGAGAAAGGGG $G C C A A A C G G C C G A A A G G A A G G A C G G G G G G A A G G C C G G G A G G A$ C T TA GAAAGGAAAGGACAAAAGAGAAAAAGGAAAAAAGAAGA GAAAAGAAACCAGAGCCAGGAGAGACAAGGGGGGGAGGAAGA GA $A \operatorname{GGG} \operatorname{G} A \mathrm{G} G A A \operatorname{A} A A A G G G A G G C C G A G G A G G G A A A A A G G A A A A$ A G G G G A A G GCCAAAGAGGGAGAAGGGGAGAAACGGAACACAT $A C C G G G G A A A A G G A A A A G A G G G G A A G G A A A A A A G A A A A A A G A$ G G G G A T T C C A G CAA $A \operatorname{GA} A G A G A C C A C G A G G G G A G G G A G A A A A C$ $C G G A A G G C C G G C C A A G G G G A A A A G G T T C C G G G G G A A G C A A A A$ $A C C A A A A A C G G G G G G A C G G G G G A G A A A A A A A G G G G A A G A A G A$ A GAACGGACAGGAAGAGACGAGGAAGGCCACAGAAAAGAAAG G G G GAGCGGAAGGGGAAGGCCCCAAGGGAAAAAAAGAAAAAG GAAGGGGGGAAGGAAGGGGAAAAGGGGAAGGCCGGAAGGGGA A G GAAAAGGGGGGGGATAGACGGAAAGGAAAGGGGGGAACAC A A GCAA $\operatorname{A} C A G A A A G G G G A A C A G G C A G G G A A A G G G G G A A A A G A$ C G G G A A A G G A A G G G G A A A G A G G G G G G G A A T T A G G G G A C C G G A A A A G G A A A A A A A G T T A A TAGGGAGGAAGGGGCAAAAC GAA GA AA $A$ A $G A G A A C A G G G A G G G G A C G A A C A A A G A A A A A A G G C A A A A$ ATTGAAGGGGAATAACCGGCCGAAAGGGGGGAGGGAGGAGAA AAAGGGGGGGGAAGAGAGAAAGGGACCAAAGAAGGGGGAAAG GAAAAAGGGCCGGAAGGCCAAGGCACCAGGAAGAGAAAGGAA $A G G A A A G A G G A G A A G G G G G G A G G C C G G A G G G G G G G A A G G G A A$
 G GAAA $A \operatorname{G} G \mathrm{G} A A \operatorname{A} G A A A G A A A G G G A A G G G G A A G G A A C C A G G B A$ A GAAAAGAAAAAAGAGAAGGGAAGGACAGAAGAACGGGAABA G G GAGGGGGAAAAAAAAAAGGAGGGAGAGACGGCCAGAAAAG GAAGGCCCACACCGGGGGGAAGGGGCCAAGACAGGAGGAAGA G G G A G G A G G G GAGGGGACCCCAAAAAGGGAGGGGGAACAGAC C G GAAAACCGGAAAAGGGGCCGGGGAAGGGAGAAGAGGAAAA A A GA $\operatorname{A} G A C C G G A A G G G G G G G G G A G G G A A G C C G A A A G G C C G G G$ GAAAGAAAACCAGAAAAGGGAAAAGGGGAGGACGGAGAGAGG G G G G GCAAAGGAAAAGGAAAAACGAGGAAGAGAGGAAAAGGG GAAACAGGACCGACAGGGAACCCAAGAGAAAAGAGAAGAAAA G G A A A A A G A G G GAAACGGGGAAGGAGGGAAAAGGAAACAAAA A G G A C A A G A G G A G A A G G A A GAAA $A \operatorname{AGGGAA} G A A G A C A A G A A C A$ $A C C G G C A C C A A G A A G G A G G G A A G G G A G A C G G A G G A G G A G G G C$

C G GAAACGGGGAAAGAAGGAAGGAAGGGGAAAAAAAAGAAGA
 AAAGGGGGGGGCCGGAAAAGGGGAAGGAGGAACAGGAAAAGA
 $G C A G G C C G A G G G G G G G G G G A A A A G G A A G G A A G G A A A A G A A A G$ GAGAAGGGGAAAAGGAAGAAACCAGCCGGCCCACAGGACGGA A G G A A A A A A G G G G C G G A A G G A A G A A G G G G G GAAAAAAA G G G G G GAAAAAAGGGAAGCCAAGGTAAGGGGGGGAAGGGGAAGAGAG GAGGAGAAGAAAGAAAACAGAGGGAAAAAAAGGGBAAAGGAG GAGGGAAGGAAAAGGGGGGAAGGAAAAGAAGGGAGAGAGAAC CAAGGAGAGGGAGGGGGACGACAGAAAGGACAGGGAG
AA G G G GAAAACCAAAACAGAAAAAGGAGCCGAACAGGGGGA AAACCAAGGGGAAGGCCAAAAGGAAAAAAAAGGAAAAGGGGG $A A G G A A G C C G G A A A G A A G G A G A G A G G G G G A A A A A A A G G G G G G$ A G G G G G G A GAA A GAAAAAA A G G G G G G G G GAAAA A G G GAAA A G C C G GAAAGGGACACCCGGGGAAGGAGGAAAACAGGAGAAAAAA GAA A A A C G GAA $A \operatorname{A} A A A A A G G G G G G A G A A A A G G G G G G G G A A A C A$ GAGGGGGAAAGCCAAAGGGGGGGAGGGAGAAGAGGAAAAGAA $A C C G G G A A G G G A C G G A A G G A G G G C C G G G G A A A A G G T T G G G G A$
 AGGGGCCAACCAAAAAGGGAGAGCCGGGACCCCAGGAGAAAG GCAGGGGGAAGAGGAGGTTAAGGGGGGAAAAAAGGAAGGGGT T G G G G A A A A $\mathcal{A} G G G G A C G A G G G A G A A A A A G G A A A G G G G G G G G A$ GCCGGAAAGAAAGAAGGGGAGAAAAAGAACCGCAAGGGGGGA
 $A C C A G A A A A A A G G A C G G A C A A C C G G A G G A A A G G G G A A A G G A G$ AAGAGAGAACCGGAGAGAAGGAAGAGGAGAAGAGAGGAAACA G G GAAAACAAGGAAGAGGGGGGGGGGAGGGGAAGGGGCAAAA GAGGGAAAGAAGGACGAAAGGAAGGCAAACCGGGGAAGGGGA G G G G GCAA $A \operatorname{AGAAAAAAAAAGGGGAAAAACAAGGAGAGAAGAA}$ C G G G G G G G GCC G G G GCCAAGGGAGAGGAAACGAGGGGABAA G GGGACCAGGAGGGAAGGGGAAAGGGAGAAGGGGGGGGGAAAA AAAAAAAAAGGAGAAGGAAAAGGGGGGAACCGGAGGGGAACA

 G G GAA $A \operatorname{G} \operatorname{GAA} A G G A G C G G C A A A G G A A A G G G A C G G A A G A G G G G G$ G G G G GCCGGACGGAAAAGGGAGAAGAGGACAAAAGGC GAATA CAGAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} A A A A A A A G A A G A A A T T G A G A G G G G G G G G G A C$ C T T C C G G G A A G G G A A A GA G A A A A GAAC GA GAGACA G GA G GA A A A A A A A A G G G G A A A G G G G GCC G G A A A G A GA G C C A A G G G G G G A GAGGAAAGGAGAAAAGGAGGAAGGAAAGGAGGAGAGAACCAA
 G GAAAGAAAGGAGGGGAAGAGAGAAGGCCAGGAGGGGGAGGA $A C A G G A A C C A A A G C A A G A A A G G G A G C A C C G G A A C G A C A A C C G$ GCCAAAAAGAAGAAAAAAAGGAGGGAAGAGAAGGAAGAAAAA
 A G G G G G G G A G G A G G G G A A A A A G G A A G G G G G G G A C C A A A G G G A G G G GAA A A A A A A G GAGAAAGAAAGGAGAGACAAGAGAAACCG $G C C A A A A A G A A C C C C A G G G C A C C A A A A A G A A A A G A A C G G G A G$
 G G G G G A A A A A A A A G G G CAAAAAGAAAGGAGAGAAAAGAGAAA AAAGAAACCAACCAAGGAAGGGGAAGGAGAAGAGAAGAAAAG A A G A A $\mathcal{A} G G A G G G A G G G G G A G C G G G A C G G A G G G G C C G G A G A A G$ $A C C A A G G G A C C G A G G A A A A C C G G A A A A G G A A G G G G G G G A G A A$ AAA A G G G G GAAAAAAAGAAGGAAAGGGACGGGGAAGGGAAAA $A G G A A G G A A A G G G A A G G G G G G A A A A A G G G G A G G G A A G G G G G G$ G G G G A A A G A C A G G G G G GAA A GAAAAAAAGAACAGGGAAAAGAA G G A A C A A A GAGGAAGAAGGAAAAAAGGCCAGAAGGAACGGGC CAGGGAGAAAGACCACCACGAAAGGAAGGAAGAGAAGAAGAA
$G C A C C G G C A A G G G G G A A A G A G G G A A G A A G A A G G C C G G A G A A A$ G G GAA $A \operatorname{GGG} \operatorname{GAA} A G A A A A A A G G A G A G A G G G A G A A A A G A A A A A A$
 A A G G G A GC C G A G G A A G A G G G G G G G G G G G G A A G G G G C C G G G C G GAGGGGGACGAGGACGGAAAAAGAAAGGGCAAAGGAGGAGAA G G G A A G G G G A C A A A A G G G G G G C A A GAGAAA A A C G GAC G C C G A GAGGGGGGGAGGGAAAAGGGGGGAGGAAGAGGGGAAGAGCAA AGGAAACAGAAGAGGAAAGGATTCACAGAGGGGGGAGAAAGA
 G GGAACCAACCTAAGGGAAGGGGCCGGGGCCAAAGCCCCGGG GCAA C G A G G G G GAA A G GCCAGAGAAAGGAGGGGAACAA GAAA A G G G G G G G GAAAGGGAGAGGGAAAAGAAAAGCCAAGGCAAA G G G G A A A G A A G G G G G G TACGCCAAGGGGAGGGGGACCCCCACA AA $A$ A $G C A G G A A A G A C G A A A A A A G G G A T A G A G G A G G G G A A A A C$ CAGCCAGAAACAGCACGAGGGGGGGGGGAAGAAGGGGGBAGA GAGCCCCAGGAAAAGGGAAGGAACCCCGGGGAAAAAACAAAG GAAGGCCGGAAGGAACCGGCCGGACAAGGGGCCAAAAAAGGG G G G G G G G C C G G A A A A G G G G A A G G G G A A G G G GAAAC GAAA A A A G G G G GAGCAGACAGGGAAAGGAAAAGGTTACAGAGCCCCGGG A A G G G A A G A G G G G G G A A A A A A G A G A G A A A G G C G G A G G A A G G A AAAGGGGAGAAGGGGGAAAGAGAAAAAGGGGGAGGAAAAAAC $C C C G G A A G G G G G G G G A G G A G G A G A G A G A A A G G A G A A A G G A G G$ A G A A A A A A GAACAGGGAGGAGCCAAAAAGAGACCAGAGAGAA C G G A A G G G A A A C A G G A GAGAAAAGGCCGGAAGGGAGAAGAG G AAAACGGGGAACCGGAGCCGAAAGGAAAAAAAAAACCAAGEG GAACCAGGAGGGGAGGGAGGAGAGGAAAAGGCCAAAGGGAGC A GA A G G G A A A A G G G G G G G GAGGAACGGAACAGAGAGGTXGAG A GAA $A \operatorname{A} A G G G C C C G G C A A A A A A A A A A A G A A G A A A G G G G G G A G$ A GAA $A$ A $\operatorname{A} A A C A G A C A A G A A G A A A A C G A G A G G A C A A G A A A G G G$ $G C C C A A C G G G G A G G G C G A A G G A A C C A G A G G G A A A C A A G A C C G$ A G G A A A A A A G A G G G G A C G A G A G G G G G A C G A A A A G G A G G A C C G A G GAC A G G G G G A A A A GAA A A A G G G G G GAGGAGGCA AAAA A GA CAA $A$ A A G G A G A GAAAGGGACCGGGGAGAAGGAAGGCAAAGGC C C C G G GAAA $A \operatorname{AGGAAAAGAACAAAGAACGGGGCCGBAAAGAGG}$ A G G G A A G A GAA $A \operatorname{GGGGGGCACCGAGGGGAAGAGAAAAAAAGGC}$ CAAGGGAGACCGGGGCCGAGGACGACCAAAGAGAGGGAGAAA A G GAA A A GAGGAGGGCAGAACGGGGAAGGAGAGAAGAAGAGG A G G G GAACCGAAGAGAGAAGGGGGGGGAAAGGGGGAAGAAAG GAA $A$ GAA A $\mathcal{A} G G G G A G A A A A G A G G A A A A G G G G G A G A A A A G G G A A$ A G G A A A G A G G G A G A G G G G G G G A A G A GATAA A A C G G A GAAAAA A A GAA A A $A \operatorname{AGGGGGAAAGGGCCGGGGAAGAACGGAGAAGAGGC}$ CAAAAGGAAGGAAGGAAAAGGGGAAGGAAAAAAGGGAAAAAG G G GAAGGAACCGGAACCGGGGAAAAGGGGGGAAGGAAGGGGG GAAAAAAGGGGAACCAAAACCGGAAGGAAGGAAAAGGGGCAA A A A A A A A $\mathcal{A} G G G G G A A A A C C A A G G G G G G G G G G G G A A G G C A A A A$ $A C C A A G G G G G G G G A A G G A A G G G G A A G G G G G G A A A A A A G G G G C$ C G G A A A A A A G G A A A A A A G G A A A A C CAA $A \operatorname{AGGGGGGGCAAACCG}$ GAAAAGGAATTGGAACCAACCCCGGAAAAAAAAGGAAGGGGA AAA A G G GAAAAAAGGGGGGGGCCGGAAAAGGAAGGGGGAAAG G A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A \mathrm{~T}$ TAAAAAGGAAAAAAAAAGGGGGGGGA

 A G G A A G G A A G G A A G G C C A A G G G A C A G G G G G G A T A A A A A A A A G GAAAGAGGGGGGAAAGGGGGGAAAAAAAACCGGGGCCGGGGA AAACCAGAAAAGAAAGGAGGACGGACCGGCCAGAACAGAAGG G G G G A G A G A A A $\mathcal{A} G G G G G A G G G G G G G A A A A A G G G A G G G G A A G G$ GAAGGGGAAGGCAAAATCCAGGGGGAAACCCGGGAGAAAGAG A G G G G G G G G G G G G G A A C G A G G A A C C A A G GAA A A A G G G A A A G A CAAAGAAACGGCAAGGAGGAGAGGGGGAGAAGAGGAAGGGGG

A G GAAGGAAGACCCCAGGGGAGGGAAGAAAAGGAACCAAATA G G GAGGGCCGAGAGGCCAAAGCCAAAAAAGAAGGGCAGAAAA
 ACAAGAGGGGAGGGAGAAAGGAAGGAAAGGGAAACACAAAGA AAGGACCGGAGGGAACAAGAGAGGGGGAAGGCCAGGAGAGGC
 A GAA $A \operatorname{GGA} A A A A A A A A A A A C C G A C A A G A A A A G G A G A G A A A G G$ G G G A A G A A G GAGGGGAAACAAA G GAAAAAGAAGGGGGGGGGG $A G G G G G A G A G G G A G A A C A G G G G G G G A A G G A A G A A A A G C B G A G$ G GAAGACGAGAGAAAAAAAAAGGAAAAAGAAAACCGAAGGCA A A G G A C C A C G G A G A C G G G G G G GCCCAAAGAAGCCAGC G
 CA $A G G G G C C G G G A A G G A G G A A G G A G G G A G G G G G G G G G C A G A A$
 A G G G GCCAAGAGGGGAGGGAAAAGGGAGGAAAGCCCAGACAA GAGGGGGCCAAGGGAAAAACAAAAAGGAGAAGGAACAAAAGG GAAGGAAGAGAAGAAAAGGGAAAAGGGGGAAAAGGAAAAA GA G GAGAAGAAAAGAAGGAAGGGAGAAAAACGGGGCCAAGAAAA AAGGGAAGGAAAGAAAACCGGAAGGGAGAGACAAGGGAAGAAA G G G A G G G G G A A G G G G G A A A A A G G G G G G G A A A GA G G A A A A C C T AAAACGAACAAAGAAGGCCAAAAGGAAAGGGGGAGCCGGGGA A GAA A A G G G GCGGGAAAGGAAAACCAAGGGGGGGGGGCCGGA GAGGGAAGGGGAGGGAAGAGGAGACAAAAAACAAAGGAAGGG $G C \subset A A G G G G C G A G G A G G A A G A G G G G A A A A A A G G G G G G G G G G G$ A G GAA A GAACCAGGGAAAGGGGGGAGGACAAGACCAC GAGAA A A G G G G GAAAAGGAGAAGAAGAAAAAGGGGAGGCACAAAAAA C G GAAAGGAAAGGGGAACCAAAAAAGGGGAAGAAAAAAAAAG
 GCACCGGCAGGGAACAGGGGGGGGGAAGGGGAAGGGAAACCG GAAAAGGAGAAGGGGCCGGGGGGGAAAAGAAAAAAGGGGGGG G G G G G A GAA $A \operatorname{GGG} \operatorname{GA} A G G A A A A A A G G A G G A G G G A A A A G G A A G G$ $A C A T A G G G G A A A A A C A C A G A A A A C A A C G A A A G G G G A A A G A A G$ G G G G G G G G G G A G G A GAACAAAAAGGAGATATGGGGGGGACCA A G G GAGGCCAAGAAACCGGAAGGGGGGGGCCGGAGAAAGAGA A GAAAAACAAGAAACAGAAGAGGGGCCAACCGAGAAGGAGAA GACGGGAGGCAGGAAACAAACGAAGAAGAGGGGGGAAAAGGT TGGAACCAAAGAAAAAAAGCAAAAAGGGAAAAAAACCGAGGG A G GAA A G G G G GAA $A \operatorname{GGGAAAAAACAAAAAAGAAGAGGAAAAAG}$ GAAGGGGAAAAAAGGAACCAAGGAAGGGGAACCGGGGAAGAA $A \subset C A G G G A A A A A A T T G G G G C C A A G G G G A A A A A A C C G G C A G G G$ AAGCAGAAAGAGAAGCAAACAGAGAAGGGGGAGACAGAGATT TAAAAAAGGCCGGAAAGGGGGAATTAAACGGGAGGGGGGGGA A GAGAGGTAAGAACCGAAGACGAGGCCGAAGAAGAGGGCGAG G G GAA $A \operatorname{GA} A A C G A A G G G A A G G A A G A G G G A G G A G A A G G A A G G G$ GAAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGBA A G G G GCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAG GAAAAAAAAAAAAAAAAAAAAAAAAAAGGGGGGGGAAAAGGG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA A A A G GAA $\operatorname{A} G A A A A G G A A G G A A C C G G A A A A C C A A G G G G G B A A A$
 A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G A A G G A A A A G G A A G G G G A A G G G G A A A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A G G G G G G A A C X A A C C G G G G A$ A G G A A C C A A C C G G G G A A A A G G C G G G A C G A A G G G A A A A G G G G A $G C C C C A A C A A G A A A A A C G G G A A A G A A G G G G G G G C C A A G G A A A$ GAAGGCAGAAGAAAAGGGGCCCCAAAAGGGGAGGGGACAAAC A GAGAAAGAGAGGAAAAAAAAAAAGACAAGGAGAGAAGAAAC $A \subset A A A G G A G A G G A A C G G C C G A G G G A G G G G G G G G G A G C A C G C A$ G GACCGGGGGGGGAAAGAGCCAACAAGACAAGGGAAAAAGAG G GAAGGGAAGGAAAAAGCAAAAACCAAAAACTAAGAGAAAAA

ACAAGAAAAGGGGGGAAAGAACCCAGGGGGGCCAAAACAAAG GCCGGGGGGGACAAGGACCAAGGACGAAGAAGGGGAGGAACB GAAGGGAGGAAGGGGAGGGAGCCGGGGGGCCAAAAAGAGGGG GAAAAAAAGAAAATTAAAGGGAAGGCAAATTAAAAAAAACCA A A A A A A A GAAACCAACCTAAAAGAGGGAAAGAAAAGGAACCG G G G G GCATTGGAAAAAGCCGCACGAAAAAAATACAAAAGGAT TAAACAACCAAAACAGAGGGGAAAGGGGGCCAGAGGBAAGAA AAAAAGGGGAGGGGGAGCCGGAAGGGGAAGGAAAAGGCCGGC A A A A G A G C A G G G G G G C C A G G A C C G G G A A A A A C C A A G G A A A A A AGGTAAAGAGACACCAAAAAAAAAGGAGGAAAACCAAGGAGA A G GAAAAAAGACAAACAAACAAGCCGGGAAGGAATAAAAABA
 G G G G G A C A G C A G G G G A A A A G CA $A \operatorname{GGGGGACACGGGBAACCGGG}$ G G G A A C C G G G G G C G G G G A G A A A A G A A G G G A G G G G G G G G A A G A GAAGACCGACCGAACGGGGCAGAAGGATTAAGACAGAGAAGA $C G G G G G G C C C C G G G G G G G G A A A A A A A G A A A A A A G A A G G G A G A$ A G G G G GAA $A \subset C G G A A A A G G A A A G G A A A A G G A G A A G G A A A A A G$ GCCAGGAGGAAAAAGGGGAAGGAGAGGCCCAGGAAAAAAGAG $G G A A A A A A G G A A G G G G A C C A A G G A A A A G G A A G G G A G G G A G A A$ ACAAAAAAGAGAAAACCCGGGGGCCAAGGGGGGGAAACAAGA G GAGGGGAAGGACGGGGAAACAACCAGGGAAAGAAGGAAGGC CAA $A \operatorname{GAA} \mathrm{~A}$ G G GCCAAAGTTAAAGGGAAAAGAAAAGCCGGGGA GAAGAGAGAGGAACCGGGGCCGGGGGGAAAGAAAAAGGAACA G G G A A A A A A G G A A A A A A A A A A A A G G A A G G G GAAAAAAAGAAAA CAGAACCGGGGACAGGGCCAAAAGGGGACAAAGCCAGGA G GA ACCAAGGAAACGGAAAGAGGGGGAAGAATCCAAGGGAGACAA A GA GAAAGGGGAAAAAACCAAGGGGAACAGACCGGGGGAAAG A G G G G G A C C G A C C G G G G G G G G G G G G G G A A A A C C C C A A G G A A G GAAGGAAGGGGGGGGAAGGAAGGGAGGAGCCAAGBAAAGAGG GAGCCGAGGGGAAGGACGACACGAAAAACGGGGCCAAGGGGG G G GCC GAAAAACCCCGGAACCAAGGAAGGGGCAAAAAAAGBA AAAGGGGGGCCGGAACAGGAAAAGGCCGGCCGGAAGGGGGGA A G G A A GAAA A GAAAAGAGGGGAAAAGGCAGGGGGGCAAAGAC A GAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGAGBAGAA GA GAGGAAGCAGAAGAGGGAAGGCCAACAGGGAAGGGAGACACA G G A A A G G G G A A C C G G A A G G C C G A A G G G C C A GA G G A A G G G A A G
 A A A A A A GAAGAGGCCAACCGAGGGAAGGGCCGGGAAAGGGAG GCCGAGGAAAAAAAAAAAGAGGGGGAAGACAAGCAAAAAGBA A A A G GCAG GAAAAAGGAAGGGCCGAAGGGACAAGGAAAAGAA A A ACCCCTTACCCACAAAAAAAAAACCAAGGAAGGGGCAAAG G G G C A G G G A A A G GAA $A \operatorname{AGGCGAAGAGGGAAGGACAAAGAAAAC}$ CAAGGAAGGAGCCAACAGAGAAGAAAAGAGGGAGGTTAAAGG G G G A A GAGAGGAAGAGGGAAAGGAAAAAAGGAGACAAAAGBA $A C C G G G G A A A A G G G A A A G G G G A G G A G A A A A A A A A G A A A A G B A$ A G G A C G G G G G G A A G G G G A C G G G G A A A A A CAGAACC GACAAA $\mathcal{A}$ G G G G G C A A G G A A G G G A A G A G G A A A G C CAGGGGGACAAAAAA G G GAA A A GCAAGGGAAAAAAGGGGGACAGAAAAGAAGAGAACA
 A G G A A G G A A A A A A C C A G G G G G A A CAGAGGGAGGCCAGA G GAA G G GACAGGGAAAAGACACAGGGGAGAAGGAAAAAAGAAAAAG $G C A A A C C G G A A A A A A A A G G G G A A A A G A A G G G G A A G A A G A A G A$ $A C C A A G G G G G G A A G G G A A A A G G A G G C A A A C C A A G G G B A G A G A$ AGGGGCCGAACAAGGAAAAAAAAAAGGGGGACACAAAAGAGG A G G G G G G C G G G G G G G A G G G G G G G G G A A A A A A A A G GAACAAA $A$ G G G GAGCAGAGAGGCGGAAAAAAGGAAGGAAAGACAAGAGAG GTTAAAACCCCGGGGGGGGAAGGAACCGAGAAACCAAGGTTA
 $G G A G G T T C A C G G G G G A G A A A A A G G G C C G G A G A G A A G G A G G A A$
 $A \subset A A G A G G G G G G A A G G G G G A G A G G A G G A G A T A C A G G A A A G A A$
 AAAGGAAGGCCCCGGGGGAACCCGACCTTACGACCGGGGGAG A GACAA $A \operatorname{A} G \mathrm{G} G \mathrm{G}$ GAA $A \mathrm{~A}$ GAGAAAAAAGGGGGGGACAAAAAAAGGG GAACCGAAAGGGGAAAACAAAAAGGAAGAAAAAAGGGGGGGA A G A A A A A G GACAATTAAAAAAAACCGAGAAGGGAGGGAGAAA A A A A A ACAAAC GAAGCCGAAAGAACAGGAAACCAAAAAGAGA A GAAACAAAGAAACAAAAAAGGGGAGAGAGGAAGGAAAAGGA CAAGGGGCCAAGGAAGAAGGGGCAAAGGGAAAGGGGGAAAGG G G GCC $C$ G $\operatorname{CA} A A A G A G G G G G G G G G A G G G A A G A G A C A A G A$
G G G G A A A C A A G G G G A A G G G G C C G A G G A A G G GA T A A A G G A G G GAAAAAGAGAAAAGGAGAAAAAGACAGGGGAAAGGCCGAAAG GAAAAAAAAGGGGAGAATTCCGGAAGGAAAATTAAAAGAAAC CACAGAAAAGGGGAAGGAGAGCCGGGGAAGGAAAAAAAAGGG $G C C A A G G G G C C G A G A C A G A A A G G A G A A A G C C A G A A A G A C G G G$
 C CACCCCCCGGAAGGCCAAGGGGGGGGAAAACCCCAAAAGGG G G GCCAAAAAAGGGGAAGGGGGGAAGGGGTTGGGGGAAAAAA A G G G G G G A A G G C C G G A A A A A A G G G G A A C C G G G G A A A A A A G G C $C G G A A G G A A A A A A A A A A G G A A T T G G A A A A G G A A G G G G G G C C G$ G G GAAAACCGGAAGGGGGGGGAACCCCAAGGAAGGAAGGCCG GCCAAGGACAGAACAAGGAGAGGAGAAGAACAAGGGAAAAAA GACGGAGGGAAGGGGGGAGGAAGGAGGAACCGGGGCAAAAAA GAAGGCAGAGGCCAAGGCAGGAAAAGCGGAGAGAAGAA G G GA A GAGGAGGGGAGCCAGGAGGCCCCAGCCCCGGAGGGCCGGAGC A G GAA A A A C GAGAAAGGCGAAGGACAGAAAGGAGGGGAAAAG GAGAAACGGAGACAGAAGGAGGAGGCCAGAGAAAACCAAGBC $C \subset C A A C A A A G G A A A A G G A C G G G G A G A A A A C C A G A A A G G G G A G$ AAGCCGGAAGAAAGGAAAGAGCCGGGAGAGGAACAAGAAAAG G G A G G G G A A G A G G G G G A A A G A A G A G A G G A A G A A A C G G A G A A A AAAAAGGAGGGAAGGGAACGGAAACAAGGAAGGGGAAAAGGG G G G A A G G A A G G G G G GAGGGAGAGACAAACAGGGGGAGAGGGG GAAAAGAAGGGGGAAAGGAAAGAAGGGGGCAACGGAAAACBA A A A A A C C T T G G A A G GCCAAAAAAGGAACCGGAAGGGGGGGGA
 A G G G G G GAA $A \operatorname{GAA} A G A A G G G G C C A A C C A A A A A A G G G G A A G G A$
 $C \subset C G G A G A G A A G G G G A G G G A A G G G G G G A G A G G G A A G G G A A G A$ A G G A A A A A A G G GAAA $A \operatorname{A} G A G A A A C A G A C A A G A G G G G G G A A G A C$ CAAAAAAGGCCGGAAAAAGGAAAGGAAAAAAAAAGGGGGAGT T G G G G G G C A A G G A A A A A A A G G G G A A A C G A GAA $A$ A A A A G G A A A $G$ GCAGGGGGGAAGGGGAAAGCCCCAGGGCAAACCAAAAGAAAA GCCGGAAGAACAAGCAGGACAGGCATTAAAGCCAAGGACGGA GA $\operatorname{G} A A A A A A G G G A G G G G A A G G G A C A G C A A G G G G A A A A A G A A A A$ A A A A A A G G GCC G G A A G GAAA A A GAGGGGAAACCGGGGGGGAA
 C G G A A A A G A GAA A GAGGAGAACAGGGGGGGGAA GAAAAAGGG GAGTTGAGGAGAGAGAAGGAAGGAAAGAGGAAGAAGAGAAGA A A A G G A A A A G GCCAGAGAAAAAAAGACACGGAAAAAAAAAAG GAAAAAAAAGAGGAAAGAGAAAAGAAGAGGGAGAAAGAAACA A G G A A C C G A A G G G G G G GAA A G G GAA A A G G GAAA A GAAA A A A C ATATTGGAACCAACCAAGGACGGAAAAGGCCAGGGGACAAAA A G GAAAGGGACGGAACCGACCAGGAGGGAGAGAAAAAAAAAG G G GCAACGACCGAGGAAAGAAGGCCCAGAGGGGAGGATAAAG GCGGAAGGGAAGAAGGGGAAACAGGGGCCAGGGAAAAAAGGA G GAA A G G G GAAAAAAAAGAGGGGGGGAAAGAGAGGAGACACCA A A G G G A A A ACCGGCCCCGGAAGAAAAAAAAAAAAAGGAAA GA $G G G A A G G A A A G C G A A A A C C C G A A G G A A G A G G A A G G A G A G G A G$

G GACCAAGGGGGAGGGGGGGGAGGGAGAAAGCCGGAGGGGGG A G G A A G G A A A A A A A A A A A A GGCA GAGGGAGAAAATGGGAAAA A G G G G G GAGACAAAAAACAGGCCGGCCAGGGCCAACCAAAAA A A A A A G GAAGGGGAAGGGGAAGGAAGGAATTGGCCAACAAAG GAAAAAAAAAAGGTTGGCCGGAAAAAAAAAAGGAATTCCGGA A A A G G A A G G A A G G G GCCAAGGCCCCAACCGGGGAAAAAAGGG GCCAAGGAAGGAAAAAAAACCAACCAAAAAAGGAAGGAAAAG GTTAAGGAAAAGGCCGGAAAAGGCCAAAGAAGGGGGACCCCG G T T A A A G G A A A G G A A G G A G A G G G A G A A G G A GAA $A$ A A A A A G G A AAAGAAAAGAAGAAAAAAAAAGAGGAAAAAAGGCCGGAAGGC A GACCAGAAAGAAAGGGGGGGACGAAAAAAAGGCCAAGGGGG GAAGGAACCGGAAAAAAAAAAAAAAGGAAGGCCAAGGCCCCA A G G A A A A A A C CAA $A \operatorname{GGG} \operatorname{GAAAAAAAAAAAGGAAGGAAAAGAAAG}$ GAAAAGGGGGGAAGGAAAAAAAAAAGGAAAAGGGGAAGGGGA A A A G GAAGGAACCGGCCGGGGAAGGAAGGGGAAAAAAAAGGA AGGAAAAAAGGCCAAAACCCCCCGGCCAAGGCCGGGGAAGGA
 A A G G G GAAAAGACAAGAAAGGAAGAAGCAAGAGGGGGAGAAA AA $A G G A A G A A G G G A G C C A A G G A G G G G A A G G G G A A A A G A A G G G$ G GAGGAAAACGAGAGGGGGGGAAGGGGAAGGAAAAGAAAGGA AGGAAAAAACCGGGGGGGGAGCCAGAGGGAAAAAACCTXAAG G G GAACCAAGGAAGAGGAGAGAAAGGAGAAGCCAGGGAGCAA G A G G G G G G G A A A A G G G G T T G A G G A A A A G G A A G G G G A G G G C C G GAAGGGGAAGGAGGGAAAGGGGAGGGGGGAACCGGGAAAAAA $A G G C A G A A A G A G A G G G A G A G A A G G G A G G G A A A G G A A A G A C C A$
 A GAAAGGAGACGAGAAGAGAAAAGAGGGGAATTCCAAAAGAA
 GAAAAAAGGAAGAAAAAAAGAGGCCAGAAGGGGAAAABAAAC C G G G GAAAAGGAGCAAAAAGAGGGGAAGGGGAAAACCAAGGG A A G A A A A G GA G G G A G G G A A G G A G A A A A A GAGGA G GA GAA G G G AAGGAGGAAGGGAAGCAGAAGGAGGAAGGACAGCCAAGGAGA
 A G G G A T A G A A G C C G A G G G G A A G G A A A A G G G G A A C A C C T T A A G GAAAAGACCGGGGGGAAGAGACCCCAAGGAACCAAGGGAAGC C A A A A G G A A G A A A G G A G G G G G G A A G A G C A A A G A G A G A G G G G A A A A A A G G G G A A G G A A G G G G G G G G G G G G A A C C C C G C C C C C C A G AAC GAAAGGAAAAAGAGACGGGGACAAAGAAAGAAAGGGGGG
 A ACAAAGGAAGCCGAGGGAACAGGAGAGGAAAAAAAAGACAA G G G T T G A C C G A GAG GAAGGAAGGGGGACAAGGAAGAAGGCGC CAAGAGGAAAAGGGGGGAAAAAGAAAAGGAAGGAACCAAAAA AAAGGAAGGAGGAAAGGGGCCGAGAACGAAAACAAGGGGAGG A A G G G G G G G A G A A G G G G G G G A G G G A G G A A A A C C A A A G G A G G G A A A A A G A C A A A A A A A G GAGGGAAGGGGGGAAGGGGAAGGGGA CAACCGGAGAAAGAAAAAAAAAGGGAAGGAGGGAAGAACGBA A G G A G A A A A A G GA G G A A C A A C G G G G G G A G G GA GA G C C G G C C A GAGGGAGGGCAAAGGGAGGGGAACCGGAAGGAAGAGGCAAAA AAACCGGGGAGAAGAAGCAGACAGAGAGAAAGGGGCAGACAA A A G G A A A A A G G G G A A C C G G G GCCGGGGGGGGAAGGGGCAAA G G G G A A G G A A G G A A A A G G G G G G A A A A A A C C G GCCAAAAAA A G A A A A G G A A A A G G G G A A G G G G A A A A G G C C G G G GAA A G G G G GAA A
 A A A A A A A G GAAGGAAGGCCGGAAAAGGAAGGCCAACAAAAAA A A A C C G G C C C C G G A A A A G G G G G G C C G G G G G G G G G G G G G G A A A A G G A A A A C C A A G G G G A A GA G GCCGGAACAAAGGCCAAGGGGG
 G G G G G A G A G A A A A G G A A G G A A G G G G G G A A G G G A A G A A G A G A G $A G G G G G G G A G G A A G G C C A A C C G G A C G G C C G A G A G A G G G C C C G$

GCAGAAAGGGGGAAAAGAGGAAAAAGGGCGAGGGACAAAAAG GA $A \operatorname{G} G A A G G G G G G A G G G C C G G C C G A G G A A G G G G G G G A G G G G G$ GAAGGGAGACCGGGGAGGAAAAGGACCGGGAAGGGAGAAAGA GAGGAAAAAAAAGGGAAAAATGGAAGGAGAAAAGGGAAAAAA A A A A A A A A A A GAAAACA $A \operatorname{A} G A A G G G A A A G G G G G G G G G G G A G G G$ A A G A A G G G A A G CAA A A A A A A G G A A A A A A A GGGGGGAAAA G G A A G GCCAACCGGAAAAAAAAGGGGGGCCAAAAGACCAACAGGA AAAACGGAAAAAACCAGAAGGAAGGGAGGAACCAAACCAAGG G A A G A A C G G G G A A G G A A G G G G A A G G A G G G A A A A A A G G A A G G A AGGGCCAAAAAAGAACGAAAACCGGCCAGGGAAGGAGAAACA GAAACAGCCGAAGAGAAGGAGGGGGCCCCCCCCAGGG

 A A A G G C A G G G G A G A A G A G G G G A G A A C CA A A A A A A A A A G G G A G A GAAAA A A A GAGAGGGGCCGGAGAAAAGGAGGAGGGAAAGAG G GAAAAAGGAAGAGGAAAGACCCGGAGAGGGAAAACCGAGAA
 $A G G G G A G G A A A G G G A G A G G A G G G G G G G G G G A A G G A G G A G G A G$ GAGAAGGAGAAGGGGAAAAAGAGGAAGGGAAGAAGAAAACCG G GAGACCGGGGAAAGAAAAGGGGGGGGGGGGCAAAGAAACAC CAAGGGAAGGACCGAGAGGCCAAACAAAAGAGGAAGGCAAA G GAGAGGGAAGGAGGGGGAAAGAAGGACAGAGGAAAGGCCGBA A G GA $\operatorname{l}$ GAGGAAAAAAAGAACCAGACGGAAAAAAAAGGGAAAC CAAAAGGGGTTGGCCGGAAAAGGAAAAGGAACCAAAAAAGGA A G G G G A A A A G G G G A A G GCC G GAAC CAAAAAAAGGGGAAGGCCG G G G G GAAAAGGAAGGGGGGAAAAGGAAAAAAAACCAAGBAAA G GAAGGAGGAAAAAGAAAGCAAAAGCCGAAAAAGAGAGGAAA AGGCCAAAGGGAAAAAAAAGGAAAAAGGAAAAAGGGGGAAAG A G GCCAGAGAAAGACAGAGAAAAGAGAGGCCGAGGAAAAAAA AAACAGGGGGAAAAAAAAAAAGGTTAGGGACACGGGGGAAAG A A A A A A A G G A G A A A G G A G G A G A A G G A A A A A A A GCC G G A A G G A GAAAGAAAAAGAAGAAAGGCCAAGGGGGGGGAAAGAAGGCGA $A C C C C A C G C A G A A C A A A C A G G A A A A A A G G G G A G A T A G C C B A A$ C G GCCAAAAAGGGGGAAGGGGGGAGGAAGAAAAGGAAAGGGG A G G G G G G A A A A A A $A \operatorname{GA} A G G G G G A A G A G A A A G G G G G G A G G T T X A$ ACCAAAAAAAGCCGAAGAAGGGGAGAAGGAAAACCAAAAAAG GCCAGGGGGAAAAAAAAGAAAAAAAAAAACCAAAGGAAAAAA G G G G G GAAAAAAACCGGAAGGCCAGAAAAGGAAAAGGGGAAA A A G A C G A A G G G A G G A A A A A A A G G C C G G G G A A A A A A G G C C A G A A A C A A A A A A A A A TAGAAGGGGGACCCAGGGGCCCCAACAAGB GAGGGGGAAGAAGAAAGGGAACCAAGGAAGGATCCGAAAGGA A A A A A A A G G G G G G G G C A A A GAA A A CAGGGAAAAAAG GAACAA ACCAAAAGGCCAAGGGGAAAGCCAAAAGAAAACGGAGAGGGA A A A G G G G G G G G G G G G G G G G A A C A A A A A C A G GAGGGGAAAAA G G G G G G G G G G G A A A G G G G G A A A A A G G CAAAAAAC CAAA A A GAA $A$
 AGGAAGGAGCCAAAAGGGGATAGACAAGGGAAACCCCAGAAA AAACCAGGACAAAAGCCCCAGGGCACCGGCCAAGGGGCAGGA AAAGAAGGGGGGAAGAGGGGGAAAAGAAGAGCCAACAAGGGA

 $A C C G G C C A G G A A A A A C C C C G G G G G G A A G C G G A G G G C A C A A G A$ G G G G G G G G G G G G A A A G A C A G A G G G G A G G A A G A G G A G G A A G G A AAAAGCCGGAAGGGGAAGGAAGGGGGGAACCGGAAAAGAGAG GAGAGACGGGAAATTGAAAGGGGAAGGGGGGAAGAAGAAGGG $A G G G G C C G G A A A G G G A A G G G G A A G G A A G A G G G G G G G A A A G G G$ A A G G A A G G G G G A A G G A A G G G A G G C C A A G G G G A A G G A G G G G C G G G G A A A C A GA GAAA GCAGGAACAAA GAGGAAAA GGCCGAAAA $G G A G G A A G G G G A A G G C C A G C C G G A C A A A G G G A G G G A C G G G G A$

A GAAACAGAAGAGGGAGGGGGAAGGAAGGGGGGAGAAAAAGG G G G G G A G A A G A C C A A G G A A G G G G A A A A G G A A A G A A C C G G A G G GAGGAACGACAGGGGGCAGAAACGAAAGGCCAAGGGAAAGGA AAAAGGACCGGAACCAAAATTAAGGAAGGGGAAGGGAGAAAG AAAGGCCGGGGAACCAAAAGGGAGAAGAAAGAAAAGGGGGGG A G A A A C A A A GAGGAAAGGGGGAACAAACAGGACGAAGA GAAA A G GACAAACAACGGAAAAAAAAAGAGAAAGGGACCGGAGAAA A GAG $A \operatorname{GAG} \operatorname{A} A G G A A C C G G A G A A G G G G G A C C C C G G G G C C A A A A G$ GAAATGGGCGGGGGGAAGAAAGGAAGGAGAAGGACCAAAAAA A A G G G G GAA A A GAGGAACCGGGGCCTAGGGGAAAAGATXAAA CAA A GAAGGAAGAGGAAGGGGCAAGACGAAGAGGAAGAAAAA A A A A A A A C C GAAAAAGAGGAACAGGGGAGGGAAGGAAGACCA $A G G A G G G A C G G G G A A G G G A A C A G A G G G G G A A A A G A A C G A G A A$ G G G GAAAGGCCGGGGCAGGGGAAGGCCAAACGAAGAAGAAGG G G GAC C AAAAAAAAGAAGAGGGAGGAAGGACTTAAAAAAGAA AA G G GA $A$ A G GAAAAAGAGGAAGGAGAACCAGAGAA GGGGGGG A G G A A A A A C A A G G G G G GAGAGGGGAAAGAGAAGGAA GA G GAAA GAGAAAAAAGGCCACAAAGAAACGAGAGAAGAGAGGAGAGAA C GAAGGGAAAAAAGGGGGGAGGGACGAACAGGAAGACAAAAA A G G A G A C C C A G G G G G A A A C G G A A GAGGGGAAGGCCAAA GAA $\mathcal{A}$ GGGCCAAGAAGGGACAAAGAGACGGGGGGCAAGAGGAGACAC A G G GAA A A G GAGGGAAGGAGACCGAGGGGAGAAGGGAGAGAA A GAA A G G G A A CAAGGAGGGAAAGGGAAGAAAAGGAAGAAAAA A G A A A A A A A A G A C A A C A A G G G G G G G G A C A G GA G A G G G G A A G G GAACCGGAAAAAAGGGGAGACGGGGAAGAAGGGAGGAGAAAA A A A G G A A A A GAGGAAAAGGAAGGCCGGAAAAAAGGAAAAAAG G G G G G G GAA $A \operatorname{GA} A G A G A A A G G G A G G A A G G G G A A A A A A G A G G G$ G G G A A A G A A G G G G G G C C A A G G A A A GAAGGGGAAAAAAAAAA A A G G G G A A G A G G GAAAGACCAGAAAGCCAAGGGGAAAAGAAAA AGACAGGAGCAGGCAAGCAAACAGAGGGAGAAGAGGAAAAAG GAACCGGAGAAGAAGAGAGGGAAGGGAAAGGGGGAGAAAGGA ACAGAAAAAAAGAGAGGAACAAGGGCCGGAAGGAAAAAAAGA G G GAA $A \operatorname{GAA} A G A A A G G A A G A A G G G G A A G G A A A A G A G A G A A A A$ $G G A A A G G A A G G A G A A G G G A C A G G C A G A A A A G A C A A C A A G A A A$ A GAA A G GCCAAGAAGGAAAGAACAGGAGGCCAGAGAGAAAAC
 G G G G G GAGGAGAGAAGGAACCGGCCCAAAAAGAGGGAAGAAG GAAGGGGCACCAAGGGAGGAGGGGGCAGAGGGAGAAAAAAAC CAAGGGGAGACAAAACCGGGGAAGGCCAAAAAAGAAAGGGGG G GAGGAAGAGGAAGGCCAAAAGGCAGGGGGGGGAAAGAGAAA A A GAAAAGGGATTGAGGAAGGAAGAAGAGAAGAGAGAAAGAA GACAAGGGAGGAACCGGAACCAAAAAAGGAAGGGGGGGAAAA AAGAGGGGGCCAACCGGAAACGGCCGGGGACGGAAAAAGAAA G G G G G A G T T A G A G A C G G G G A A C C G A CAACAGGACC G GAAG G C
 G GAAGAACCAAAGAGGAGGAACCAAAAAACCAAGAGGCAGAG A A G G A G A G GCCGGAAGGGAGAGGAGGAAGAGGGAAAAAAGGA G G G G G A A G G G G G A G G A A A A G G G G A G GAA $A C C G G G A C A C C G G G$ AAAGAAGGAGAGGAAGGGGGACAGGAAAAAGAGGGGGGGGGG
 C G A A GCC G G A G A A G GCCGGGGCCACGGGGAAGGGGAGAGGGG A G G A A CCGGAC GAGAAGAGGAAGGGAGAAAAGAACACAAAAC C G G A G A G A G G G G G G G G G G G A A G G A G G G C C C A A A A A A A G G G G A AACAAGAGGAGGGAGACGAAGAAAAGGAAAAAAAAAGGGGGC CAAAAAAAAGGAAAGGGGAAGAAGAAAGGAGAGGGGAAAAAA A A A A A G G G GAACCGGAAGGGGAAAACCGGGGAAAAAAAAGGA
 A A A G G A A A A G G G G G G A A A A $\mathcal{A} G G G A A G G G G G G A A A A G A A A G G C$ CAAGGGGGGGGGGAAGGGGAAGGAAGGGGGGGGGGAACAAAG

GAAAAAAGGGGAAGGGGCCGGGGAAAAAAGGGGAAGGGAAGA GA $A$ A A $\mathcal{A} G G G G G A A G G A G G G G A A G G G A A G A G G C A C A G A A A G G C$ CACAAAAGGAAACAGAAAAGGCCAAAAGAAAGGAAGAAAACA A A A A A GAGACAAGCCGAGAGAAGAAAAAAAAGAACAAGCAAC CAA A GAAAAGGGGAGGAGAAAGGCAGGAGGGGGAGCAAAGAA CAACACAACGAAAGGAGGGAAGGAACCAGGGGGGGCCAAGGG GAA $A \operatorname{G} G A A G A A A A A A G A G G G A A A A A G A G G G G C C G B A G C C G G G$ AA $A G G G G G G A A A G C C G G G G G G G G G G G G A A A A G A A A A G A A G G A$ AAAAGAAGACCAAAAGGCCACAAGGGGAGGGAAGBAAGAAAG AAAAAAGCAGGGGAAGACAGGAAGGAAGACAGGCCAGAGGGA TGGCAGAGGGGGAGAGGAAAGGGGACGGGGGAAAAGG
 GAACCCCAAAAAACCAAAAAAAAGGAAGGGGGGGGGGAAAAA GA $A$ A $\operatorname{GA} A G G G G G G A A A G A A C A G G G G A G A A G G G G A A G G G A A A T$ TCAGGAGAAGACAAAGCGAGGGACAGAGGAACCAGAAAAAAA GAACAGGAAAAGGAAAAGGAAGAAAGGCCAAGGACAAGAACC A A A A A G G G G G GAA $A \operatorname{GA} A A A A A A A A G G G G G G A A C C A A A A G G C C A$ ACAAAAGGAGAAAGGAAAAGGAAGGGAAGAAAGGAAGCAGAG ATTGGGAGGAAGAAGAAAAGGAAAAAAGGGGGAACBAGAGAA C G G G G GAA $A \operatorname{GG} G A A A A G A A G C C G G A C G G A A G G A A G G A A A G A G G$ G G G G G G G G A G G A C G G G G G G G G A A A GA GA G C C A G A G A G G G C A G G GAGGAAGGAAGAGGGGCCGGGAGAAAGGCCGGAGGGGAAAG A GAG $A \operatorname{GAG} G \operatorname{A} A A A A G G G G G A C C G A C C G G G A A A A G C C G G G G C C T$ A A G G G A A G G G G G G A A G GAAA A CAA $A$ AAGGCGGGGGAAGGAAGAC
 ACAGGCCCCAAAAAAGGAGCCGGAAGGAGAAGGAGGAAAAAG GACAGAAACGGAGAACAAAAAGGGGGGGGAGCCGGGGGGGGC CACGGAGGGAAAAAGCAGGGGAAAAGACAAGAGAAAAGACAA A ACGGAAAAGGGAAAAGGGGGAGACAGCCGGAGGGAGGAAAA GAGGGGAGAGAGGGGAAGGACGGCCAAAAAGCAGGGGCAACC A G G A C G G G A G G G A A G G A A G G G G G G A C C A G A A C C A G G G A G G G C CAAAAAAAGCAAACAAGAAGGGAAAAGGGGGCCAAAGAAACA G GAAAGGCCGGCCCCCCAGAAGGAGGGAAGGAAAAAAGAAAA AAAAAAAGGGGCCAAGGCCAAGGAAGGAAGGGGGGAAGAGGG
 A G GAA A G G A A A G G G GAAAAGGCAAAGGGAAAAGAGGAGAAAG ACAAAAGGGAAAAGGAAGGAGGGCCTTAAGGAGACCCAGGGG AAACAGGGACCACGGGGAGAAGAAAGGGGAAGGAGAAAAAGA G G GACCCAAGAGGGGAGCAGAAACCGGAACCAAAGGAGGAGG A A G G A A GAGAGAGGAGGGGGAAAGGAAAGGGAACACAAAAAA AACGAGGAACCAGAGAAAAAGGGGGCCGGGGAGAGAGGACCB A G G A A G G G A A A G G G G G GAAAAAGACCAGAACCAAGGAAAAAA G G G G G G A A G G G G A TAAAGGGGGGGAAGGCCGGAAGGAGGGGGA AAAGGGGAAAAGGAACCAAGGTTAGGAGGAGAAAAAAAAGGG G G GAACCAAGGCCAAAACAGGAGCCAGAACCCCGGAAAGGGG A A A G G A A A A A $\mathcal{A} G G G G G G G A C A A A G G G G G G G G G G G G A A A G G A A$ AAAAAGGAAGAGGGGGGGGAAAAGAGGAAGAGGGGAAGAGAA G GAGGCCGGGGCCGGAAAATAAAAAGGGAGGGGGGAGAAAAA AA $A G A A A A G A G A A G A G G G G A A C C G G G A G A A G A A A G G G G G G G G$ GAAGGAAGAAGCCCAAAGGGAGAGGAAGGGGAAGGGGAAGGG A GAAAGGGAGGAGAAAACCGGTTGGCCCAAGGGGAAGAAAAG AACGAAAAAGGGAGAAACCAAAAAGCAAGGGGGAAAACAGGG G G G A A A A G G A G G G G G A G G A G G A A G A G G A G G G G G G G GA G G C C G GAAAACCGGAGGAAAAAAAAAGAGGAAAAGGAAACGAACACA CAGAGGGAAAGGAGACCCAAGGAAAGGAAAAGGATAAGAGCA TAAGGAAAGAAAACCACAGAAAAAGCAAGTTAAAACACCGGA AAGAAAAGGCCGGAAAACCCAACAAACAAAGGGAAGAGGGGA A A A A A G G G G G G G A G A G A G G A A G G A GAA A G G A CAAAA A A G CA A $G C C A G A A G G G A A G G A A A G G G G C A A A G G C A A G A A A C A A G G G G G$

GCCGGAACCGGAACCAACCGGGGAAGGAAAACCAAAAAAAAC C G G G G A A G G G G G G C C A A A A G G G G G G G G A A G G G G A A G G G G A A $G$ GCCAAGGGGAAAACCTTGGAAAAAAGGCCAAAAGGGGGAAAA A A A A A A A A A A A A A G GAA $A \operatorname{GAAAAAGGGGGGGGAAGGAAAAGGG}$ G G G G GAAGGAAAAGGGGGGCCCCAAGGAAAAGGAACAAAGAA A G GAAAACCGGGGCCAAGGGGAACCAAAAGGCCCCAAAAAAA AAACCAAGGAAAAAACCAAGGGGAAGGAAGGCCAAAAGGCCC CAAAACCGGAACCGGCCAAGGAAAAGGAAGGAAAAGGGGGGG GAAAAGGGGAAAAGGCCGGAAGGAACCCCGGAAAAGBAAGBA ACCAAAAAAAAAACCGGGGGGAAAAGGAAAAAAAAG GAAGGA AAA A G G G G GAA A GAAGGAAGGAAAAGGAGAAAAGGAGAAAAA CAAGGAAAAGGACGGGGGAGGAGGGGGAGGAGGCAGGGGGGA G G G G G A A A A A A C A A G A A A G GAAA A GAA $A$ A A GGGGGGGAAA G G G $A C C G G C A A G A A A A G G A A A A G A A G G G G G A A G G A A A G G A G G G G A$ A G G G A A A G G G A G G G G A G A G A G G A A G A A G G T T G G A A C C G G A G A A GAGGGGGGAAGGATAAGGAAGGGAGGGGGGCCAAAGGGGAC
 A G G A A G G G GCCGGGGAAGGAAGGAAGGAAGGGGCCGGAAGGC C C C G GAA G GCCAAAAAACCAAAAAAAAAAGGCCAAGGGGGGG G G G A A G G G G A A G G G G G G A A A A C C G G A A A A G G G G G G A A A A A A GAACCGGAAAAAAAAAAAACCGGGGAAGGGGAAAGCCGAAGC A GACCAGAAACAAGGAAAACCAACCGGAAAAGGAAAACCCCA C GAA A A A A A C C A A G G G GAGGAAGGAACGGGAGGACAGAAAAG GAAGGACGAAGGGGGAAAAAAGGGGAAGGAAGGGAAGGAAAA A G G G A G G A G G A G G A A G G A G G G A G A G C A G G G A G A A G G G G A A A $\mathcal{A}$ GAAACAGGGAAAAGACCAAGGAAGGAAAAGGGGGGCCGGGGA G G G G GAAAAAACCAACCAGAAAAGGAGCAAGGGGAGGAACCA
 C G G A G A A G G G G A GAAAAGGGGAAGGGGAGCACCGGAAACGGA GACGGCCGGCCAAGACCGGGGGGCAGAGGCCAAGGGAAGAAA A A A A G G A A CA G G G G GAAAACCGGAAGGCCGAAAA GAA GAAA A GAAAAAAGAGGGAAGGCAGGAAGGAGGAGGGAGGGAAAGAA
 A G G G G A A G A C G A G C C G G G G A A G G G G G G G G G G A A C C G G G G A G C A G G G A A A G G A A A A G G G G A G A G G G C A A A G G C C G G G A G A A A G C C $C G G A C G G G G G G G G A C G G A A A A G G G G G G G G G A G G A A A G A G G G A$ G G G G G A G G A G A C A G G A C G A G G G G G G G G C C A A A A G A T A G A A G A G G GAAA A A GAGGGGGGGAAAAAAAGGGAAAAGGGAAAAAAGA G G G A A A A A G A A G G A G G A G G A A G G G G G G A A A A G G G G A A A A A A $G$ G G G A A C C G GAA $A \operatorname{GCC} C \subset G G G G G G A C G G A C G G G G G G A A A A G A A$ CAGGGAAAGGACCAGGGAGAGAAGACAGAAAAAGAAAGAAAA A A A GAGGAAGAAGGGGAAACCGAAAGGGGAAAACAAACAGAA A GAAAAGGGGAGGGAAGGGCAAAAGGGAGAAAAAAAAACGGG G GAAAACGGAGAGCCAAGGAATTCCGAGAAAAGAACGCAAGA C G GAA $A \operatorname{G} G \mathrm{G} G A \operatorname{A} A G G G A A A A G T T G G G A G G A A A A A G G G A G G A C$ A A A G G G G G A G G A G A G G GAA A G G G G A A A C C A A G G A A G A G G A G G G G G G GAGAAGAAGGAAAACACAAGGAAGGGGGGGGGGGACAA A G G G G A A G GAGCC G CAA A A A A G GAAGAGGAGGAGGCCAAAGC $C \subset C \subset A A A A A G G A A G G A A G G C C C C A G G A G A A A A A G A G G A G A A A$ GAAAGAAAGAACCAACCACAAGGGGAAAAAAGGGAGGGAAAG G G GAAAAAAGGAATTAAAAAAGGGGCCGGAACCAAGGGGCCG GAAAACCAAAAAAAAGGCCCCGGAAGGGGGGAAGGAAAACCC
 ACCGGAAAAACGAAAAGAAGGGAAAAACCGGAACCCAAAAAC AAACGGGAAGGGGGGAAAGGGGGAAAAAAGGAACCAAGAGAA A GAA A CA $A \operatorname{A} A G G C \subset A A G A G G A G G A G G G G G G G G A A A C A G A A G A A$ GAGGGAAAACCAAGGGGCCCATAGGGGAGAAAAAAAGAAAAG
 A G G G GAGGGAGAGACGGGGAAAAAAAAAAAAAAAAACAGAGG

G G G GAA A A A A C C C G G G G G GAAAAGGGGGGGGGGGGAAAAGGG
 G G G G G G G G G G G G G A A G A G G A G G G A C G A GA G G G A G G C G G A G A $G$ GAAAAAACCGAGAGGGGAGGAAGAGAGGAGGGGACGGGAGAA GAA A G G G G G G G A A A A GAGGGGGGAAGGGAAAAAAGGAGAA GA G G G A C A G A A G G A A A G A A G G T T A A C C A A G G C C G G A GACA G G G A A G G G A G A A A G G G A G G G G G G A A A A G G G G G G G A C C G G C C G A A G G AGGGGAACAGAGGCAGAAAGGAGGCAAGAAGAGGGAAAAAAA G G G A A G G G GAAAC $A$ A A GAGAAGAACAAGAGGGGAGGAAGAGAG G G G G GAGAGAACAAAGGAAAGAGGGAGGGGAGGAAAACAACG A GAAAAAAAAAACACGGAAAAAACCAAGGAAAAGAGG
G G G G C C A A A A G G G GAA A G G GACAAAACAGACCAGCACAGGA C G GAGGGCAAACCGGGGAAAGCCAGAAGAGGAAGGAAAAA GA CAAGGGGAGGGGAGGAGGGAACCGGGAAGAAGGGGAGGAGGA A A A A A G G G A G G GAGAGGAAAAAAAGGGCCGGGGGGAAAAGGG GAGAAGGGGGGAACCGGGGGGGGGGGACCGGGAGACAAGTTG G G G GAGGAGACGGAACAAAAGACGGCCCAAAAAGAGGAGGAG A A G G G A G A A A A A A GAA A G GAAAAGGGGGAGGGGACAGAACAG GAAAGGGGAAAGAGGGGAAGGATGGGGGGGGGGAAAAGGCCC $A G G C A G G A A G G G G A A G A G G A A G G A A A A G G G G G A A A A A A A G A A$ G G GAAGGAACCAAAGGGGGGAGGAAAACAGAAACCAAGGGGC AAACAGCGGAAGGAGAAAAGGAAGGGGACAAGGGGGGAGAAA A A A A A A GAAAA $A \operatorname{A} A A A A A C A G G C G G G A G G A A A A G G G G C A A G A$ A G GAAA A $A \operatorname{GA} A G G G G G A G C A A A G G G G G A A G A C A A C C G G C C G A A$ G GAAAGGGACCAAGGAGGGGGTTGAGGAAAGCAGAAAACBAA
 A G GCAGGAAGGGGGGAAAAGAAAGGGACAAGCAAGGCGGGGG GACCCAAGGGGGGCCGGGGAAGGAAAGAGGAGGAACAGAACA GAAAAAACCAAGGGGCAAAGGGGAAGAAGGAGGAGAGAATXA AAAGAGGCCGAGGGGCCGGGGGGCCGGCAAGGAGAGGAACAC GAAAAAAGGAGAAAAGGGGAGAGAAGCAGAAAAAGGAAAGGG A GGAGGAAAAAAAAGAACCAAGGCACACAAGGGGGGAAAGAA GAGGAGAAGGGCCGGGAATAAGAAAAAAAGGAACCAGCAGAA A A A A A A A A GAA A GCCGAGGGGAAAGCCAAAGGAAAGGACGCA GAAAACCGGGGACCAGAAGAAGCCCCAAGCAGGCCCCGGGGA G G G GAGGCCAAGGAAGGGGCACAAGAAGGAGAGAGAAAAGGC CAAAGGGACCAGACCGGGGAAGGGAGAAGCCGGAGGGCAAAG GCC G G GAAA $A \operatorname{AGGGAGAGGCC} G G G A G A C C C A G G G G A G G G G G G$ $A C C C A G G G G C C C C A A C C G G A A A A A A A G G G G G G A G G G A A A A G G$ G G G A A C A G A G G G G G GAAAGCC GAAAAAACGGGAAAA G G G G A A A G GAAAAAGGAGAAAACAAGAGAGCGGGAAAAAGGGAGAGAABAA
 GAGGAAGGAGGAGGGCCAGGGGGGGAGCACACCAAGAAAAAG A A G A A G G G G G G A G C A G G A A A A A A G G GA GAAAAAA A G G G A G G T TAA A G A C A G A A G G G G G G G A G G A A A G C A G G A G C C A A G A G G G G G AA $A G G G A A A G A G G A A A A A G A G A A A A G G G A A G G G G G G A A A A A A$ A A A A CAC GAAGAAAAAAAACCCCAAGGCCGAGGTTAAGAGAG A GAACGGGAAGAAAAAAAAAGGACAAAGGGGGGAAAGAGCAA GAGACAGGGACCAGAAAAAAGGGAACCAGAAGGAAAAAAGGG GAGAGGGGGAGCACCAAGAAAAGAAGGAGGAGGCCAGAGAGA A G G A A G G A GAGAGGAAAAGCAGGAAGGAACCCCGGACAGAGG A GAGAGAGAAAAAGGCAAGACAAAAGGAAAAAGBAGGGGGGC C G G A A A A A A G G G G G G A A A A $\mathcal{A} G G G C C G G G G A A G G G G A A G G G G G$ G G GAAAAGGGGGGAAGGGGGGAAGGGGAAAAAAGGAAAGGGA A G G G G A A A A C CAAAAAAAAAAGGGGGGCCAACGGGGGGGAGA GAGGGGGAAAAAAAGGAGGCCAAGGGAAGGAAAAAGACAAAA AAGGGAAAACCACAAAAAAGGGGAACCGGAAGGAAGAAGAAA A A A G G G G G GAAAAAAAAAC GAACGGGGAAAGAGAGGGGAAAA $A G A G G A A A A G G A A G G G G G G A G G G G G A A G G A A T T G G A A G A A A A$

G G GAGAAGGAAAAGGGAACAAGAAAAAGGAAGGAAAGCCGBA
 $G G G C C A A A G A G A G A A A G G G G G G G G G A A G G G G C C G G A A A A G G G$ A G G G GAAACAAGGAGGGCCGGGGGGAAGAAAGG
 AAAGGAACCCCCCAAGGAAAAAAGGAAGGAAAACCAAAAGAA $A C C G G G G A A G G G G G G G G A A C C A A A A G G G G C C G G G G C C G G G G A$ AGGCCAAGGAAGGGGAAAAGGGGAAAAAAGGGGAAAAAAGGA A A A A A G G A A G G A A A A C C G G G GCCGGAAGGGGAAAAGAAAAAA AAAGGCCGGCCAAGGGAAAGGAGGAGAAAGGGGCCGGACAGG A G G A G G A G G G G A G G G G G G G G G G A A A G G G G C C A A T T G G A A G G A A G G G A GAA $A \operatorname{GA} A C C G G G G A A A A A G A A C C G G G G G G A G A A A G G A$ A A A A A GAAAA $A$ A A G GAA $A \operatorname{AGGAAGGGAGGCAAAACAGGGGGGGA}$ GCAGAAGAACCAAAAAAGGAAAGAAGGGGCCGACCAAAAAAG GAAGGAACCGGAACCCCGGAGAAGGGGAAGGCAAAAGTXAAG GAAAGGGGAAGAACCAAGGAAAAAACATTCCAGGGCCGGGGA AAAAGAAGGGAAAGAAAAAGAAAAAAAAAAGCAAACCGAAAA A A GAA A G A A A G GAAGGGCAAAGGGGCCGGAGGGAAAACAGAA AAAAACCAACCGGCCGGCCGGAAAACAGGGAAAAAGGGGGGG G G G A A A A G A G A A ACCAAAAGGAGGAAGCCGGGAGGAAAAAAG GAGGGGACAAGAAGAGGAGAGGACCCAGGAAAAGAAGGACAA A GAA A G G G GAACCGCGGAGGGGGGGAAGGAAGGCCGGAAAAAA A A A A A G GCAGGAAGGGGCCAAGGGAAGGGCCGGATGGGAAAG G G G A A A A C CAAAAAAAAAAGGAAGGAATTAACCAAAAGGGGG GCCAAAAGGAAAACCCCAAGGAAGGAACCGGGGAAGGAGCCA GAAAAGGCCGGCACAAAGGGAAAGGAACCGGAGAACAGAGAA A G GAA $A \operatorname{GAA} A A G G A G C G G A G A G G G G A A G G A A G A G G A G A A A A G$ CAA $A \operatorname{GGA} A A G G G G G G A C A A G G G G C A C C G A A A A A C C A G G A C G G$ A GCAAAAAAGGGGGAGGGGGGACGGGGAAGGAAGAAAAAGGC C G G G G TAA $A$ T TAA $A$ AAAGGGGGAAAACCGAGACAAAACGAGA G GAAGGGAAGGAAACCGGAAAAGGGGCCGGAAAACCAAGAAAA G GAAAGGGGAACCGAGAAAAACCGGACAGAGGAGGAAGGGGA A G GAGAAAAAAGGGGAACCGGAACCCAAGAAAAAAGGAAAAA AAACCGGCCCAAAAAAAGAGGGAAGGAACAAGAACAGAGGGG $G C A A A A A G G A A A A C C A A G G A G G A G G G A A A A G A A A G A G A G G G C$ A G G G G G G A A A A C C G A A A A A A GAA A GGGGGGAAAGGCCAAA G G GAAGAGAAAAAAAGGGGAATAACGGGGGGCCAAGGAAAAAAA A G GAAAAAAAATTAGAGAAGGGGGGAATTGGCCAAGGGAGAC A A A G G G G A A A A A A G G GAGGGGAAAGCAGAAGTAGGGGA G GA G A A A G A GAGGACAAAGGGGGAAGAAACCGGGGAAGAACAGGGG GAACGAGACGGCCAAGGGGCCAGAGCAAGAAGGCCGGCAAAA AAAAACCAGCAGAAAAGAGGAAGAACAAGAAAGAGGGAACAA G G G G G G G T TAA A G G G G G GAAAGGAAGGAAAAAGAAAAAAAAA G G A T A G A G G G A A G A G G G G G A A G G A G A G A G A A A G A G A A G G G G G G G G G G A G A A G G A A A A A A G G A A A A A A A A A A C C G GCCAAGAGA A A G G G G G G G G A A G G G G G A C C G G G G A GAAA A A A GAAA A A GAC CA

 A GAACAGGGAGAGAAGAGGAAAACCAAGGGGCCCCAAAAAAG AAAGAGGTTAAGAAGAGCCGGGGAACCAAAAAAGGCCAAAAA A G G G G G G G G G G G G A A A A G G A G A A A A A C G G G GAAAAAAACA A A G G G G G G G G GAGGAAAGGGGAAAAGAGGACAACCAACCCAAAA A A A A A A A A A $\mathcal{A} G C C G G G G G G G G G G A A G G A A C A G A A C A A G A G G G$ A A G GAGAAGGGGGGGACGAGGAGGGGGGAAGAAAGACGCAGG A G GAAAAAGAACCGGAAGGAAACGGAGGGCAGAACAGGAAGA GGGCAAGCCAAAGAAGAAGGAAAAAGAGACAAGGAGAACGGA A G G G G A A A A CAAAACGACCGGGGGGCCCCAAAAGGCCAAAAG GAAGGGAAAAACCGGCCGAAAAAAAAAAAAAGGAACCAAAAG GAAGGAAGGAAAAGGAAGACCAAGGGGAAGGGAGAGGAACAG

G G GAACAGAAACCAAGGAACCAAGACCCCGGCCGAGGAGAGA $G G A G A A A A A A A A A G G C A A G G G C C G G A A A G G A A A G A G A A A A G A$ GAAAGAGCCAACCACGGAAGGAGGAAAGGGAGGGAAAGAGAA G G G GAGAAAAAAGAAGGAAGAGCAGAAGGAGAAAAGGCCGGG AAGCAACGGAAAAAAAAGGAGGGAAGGGGGGGGACGGGGCCG G GAGGAAAGGGCAAAAGAAGGGGCCAAGGAAAAAACCCAA GA GACGAGGAGGGAAGAAAAAACAGAGGAACAGGGAGGGGGGGG GAAAAGAGGGAGGAAGGCCATAGTTAAAGGAAAGAAAAACCG G G G A G A G G A G A A G C A G A A A G G G G G G A A C C GAAGGACA A A A A A G GAAGCAAGGAGGGAGGAGACCCGGAGAGAGCCGGAGAGAAA GAAAAAGGATTAAAAGGAAAAGGGGGGGGGGAAAGAGGAAAA G GAAAAAGGACAAACAAAAAAAAGGGGCCGGGGAAAAGAAAC A G GCAAAGAGGGAGAAGACAGAAGAAAGGAAAAGGAAGAACA $A G G A A A A G G G G G G A A G G A A A G G G G A G G A A C C A A A G G A A G A G A$ $G C C A A A A G G A A G G G G A A A A G A C C A A A A A A G G A A A G C C G G G G G$ AA G G GAAGAGAGAAAAAAAAAAACCAAAAGGGGAGGAGAGGA A G G GAGGGAAAAAAAGGAGAACCGGGGCAGGGAGGCCCCGGG GCGGAGAAGAAGAAGGAGGAAAAGGCCAAAAAAGAGAAAGAG GAAAAAGGGAGGAAGGGGGCCGGGGGGAAAACCAACCAAGGG G G G T T G G G GAA $A \operatorname{G} G \mathrm{G} A C G A A A G A A A G G G G G A A G G G G G G G G G G$ GAGAAAAGGGAGGGAAGAAAGGAGGCAGACAGAAGAAGGAGA TAGGGAGAGAAAGGGGAAAAGGGAAAAAACCGGGGGAGAAAA A G G G G G G A A G G G GC C G G G G A A G G A A A A G G A A C C A A C C A A G G G G G G A A $\mathcal{A} G G G G G A A A A A A G G A G A A G G G G G G G G A A A A A A G G G G C$ C G G G GCCGGAGGAAAAAGGGGAAGGAAGGAGAAAGAAGAAGA GAGAGAGCGGAAAAAGACCAACCAGAGAAAAGAGGGGAGACA A GAAA A A G G G GAAAAGGAAAAGGAAAAGAGGAAA G GAAGAGAA A A A A G G GA $\operatorname{A} G A A G A G A A G A G A A A A A A G A A G G G G G G G G A A G A A$ A G G G G C A A G A G G A G G G A A C A A G G G G G G A A G A G G G G A A A G G G T TAAAACCGAGGATGAGGCCGGAAGAGGAAGGGAGGAAGGGGG G G G G G G G G G G G G G A A G G A A G G A A A A A A A A G GAAAA A G A A A A G GTTAAAACCGGAGCAATAGGAAGCCAGGGAAGGGGCAAAAAG G G G G G G G A A A A A A G GAACC G GAAAAAGGGGAGA GAA G G GAAAC CAACCAGGAGGAAAAGGAAGGAAGGAAAACCAATTGGAAGBA A A A A A $\mathrm{A} G \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A A G A G G A A G G A A A A G G G A C$ CAACCGGACGAGGGAGGAAAAGGAAAGCCAGACAAAAAAAAG GAAGGGGAAAAGGAAAGTTCCAAAGTAAAAACCGGGGAAGGG GAAAAGGAAAAGGGAGGACACAAGGAGACAGGATTAAGGGGA A $G A A A A G G G G G G G G G A A G G G G A A A A G G G G G G A G A G C C A A G A A$
 CAACCAAGGAGAGACCCGGGGGAAAAAAAAAGGAGAAGAAGAG A A A C C C A A GAGAGGAGGTTACGAGAGGACACCAAGCAAGACG GAGGGCCCCAACCGGAAAGAAGGAAGGAAAAGGAAGGGGGGG GAAAAGGGAGGAACCAGGAAGCAAGAAAAGGGGGGGGGAAAA A G G A A G G G GAAAAAAAAAAAAACCGGAAGGGGGAAGAAAAAC
 G G GAAGGAAAAAAAAAAGGAAAAGGAAGGAAGGCCAAAAAAA A A A C C G G A A G G G GCC $C$ G G G G G G A A C C G G G G G G G G G G A A A G G G A A G G G G G GA A AC G GAAAAGGAAGAGGAAGGCCGAGAAGAAAAC C G GAA $A \operatorname{GAA} \mathrm{~A}$ G G GAAAAGGAAAACCGGAAGACCAGGGAAGGG GAACCGAAGAAAGGGGAGGAGGGGAAGCCAAAAAAGGCAAAG
 A G A G G G G G G G GCC G G A C A GCCAAGAGAGGCCAAAACAGGGGC $C C C G G G G G G A A G G C A G G G G A A A C A G G G A A A A C C G G G G A G G G G$ G G GAAGGAGAGAGGGCCACGGAGAAAAGGAAGAAAGGCAAAA A A A G A A G G A G G G A A A G G G G G G G G C C T T A G A G G G A A G G A G G G G GAACCAAAAAGAACAAAGGAGCACACCCCCCGGGGGGCAAAA G C A A A A A $\mathcal{A} G G G G A A A A A G G G G G G G G G G G G C C A G G G G G A B A A C$ $C \subset C G G A A G G A A C C A A A A G G A A G A G A G A A G G A C C G G A A G G A G G$

ATAAAGGAAGAAGGGAAGGGGGGGGAAGAACAGAACCAAGAA GAAAGGGGGAAGGAAGGAGAACAAGAGGAAGGAAGGGGCGAG GAGAACCGGGGCAAGGGGGGGAGAAGGAAGGGGAGAGGAAAG GGGCCCAAAAAAAGAAAAAAGAACCGGAGAACCACAA
GGTTGGAAAAAAGGAAAAAAAAAACAAAGGGGAAGGAAAAG GCCAAGGGGCGCCGGGGGGAAAAGGGGGAAGACCAACABAGA $A G G C C G G G G G G A G G A A G C A A G G G C C G G A A G G A A A G G A A A G G G$ GAAGGAAGAGGCCGGGACAGAAAGGAAAAAAAGAAAACCGGG G G G G G G GAGAGAGAGAAGGAGCCAGACAGCACCAGAGGGACA A GGAGGGAAAAAGAAGGAAGGAAAGAGAAAAGACAGGCAGAA $G C C A A G A A G A A A G A A A A G G A G A A A A A G A G G G C G G G G A A A A G A$ G G GCCAAGGGGGACCTTCAGGAAGGGATTAAGAGGGAAAAAG G GAGGGGGGGAGGGGAAGGGGAAAAAAAAGGAGGGACGAAGG GAAGA G G G GAGCGCCCCAGGAGGAAAAGGAAGGAA GAAC G GA ACAGGGGGAACGGGGGAAGCCGGGGAAGAGGAACCGGGGCCG GAAGGAAGAGAGGGGGGGAAAGGAAAAAAGGGGGGGGGACAA A G GCCAAAAAGAGGAGAAAGGAGGGAAAAAAGGGGGGGGGGA GAAAAGGGGGGAAGGACGGCCGGAAACAGGGCCAGAGAAGAA AAGGAGGAAGGAAGGCCGAGGAGAAAGAAGGAAGGAAAAAAG A A A G GCCTTACAC GAAAGGGAGGGGAACCAAAGGGTTAAGEG G GAGGAGGAAAAAAGAAAAAAGGAAGGAAAAGGGGAAAAGAA AAAGAGAGGCAGGGAAGAGCCGGGAACGAAGAAAAAAAACAA

 AAAGGGGAAAAAGGGCAAAGAAGGACAAGGAAAA GAGAAA GA G GAGGAAAGAAGAAAGAAGCGCCAAAGAAGAGGGACAAAAGA GAAGGGGAGAAGACAAAAAGGGGAAGGAACAAGGGGAAACAG G G G G A C C G G G G T T A A G GAAAGAAGAAGGGGGAA G GA GA GAA $A$ GAGAGAAAGCGACGACCAAAGAAAAAAAAGGAAACCCAAAAA GAAGGAGAAAAAGGGAGAGAAGGCAAAGAAAGGAGAAAAGAG GAAAGGACCGGGGGGGGGGAGAAGGAGCGGGAGACGGGAGAG A G G GAAAGGAAAGGAATGGAGCAGAAAGGAAGGGGGGCAGEC C CAAACCAAAA G GAAAAAAAACAAGGAAGGAGGGAGGGGGGGG GACAAGGAAGGAAGAAGAAGGGGGAGAAAGGAAGGGAAGAAA A G GAA A GCCAAGGCCCCGGGGAGGGAAAAGGAAAAAAGAAAC CAAAAAAAGAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGGC $C \subset A G G G G G A G A G G G G A A G G G G A G G G G G A C A G A A A A A A A A G G A$ GAAGGGGAACCTTGGCCCCGGGACCAACAGACAGGGGAATAA G G A A G G A G A A G A G G A A A G G G G G G A G A A A A $\mathcal{A} G G G C C G G C G G G G$ $G C A A A C C G G G G G G G G G G G A A G G A A G A G A A G G G A A A G A C A A G G$ GAACGGGAGAAGGGGGGTTAAAAAAGGGGAAGGAAAACAAAA A A A A A G G A A A G A A CAAAGAGGACGCGCAGAAAGGACAAGGAA GCAGGGGAAATAGAGAACCGGAAGGCCACGAGGGGCCAGAAG AA G G A A A CACAAGGAGGCAAGAAAAAAGATAGAAAAAAGGCG AACGGAGCCAACCAAAAAGCCAAGGAGCCAGGGGGGGAAAGAA A A A G G A A A GAAAGCCAAAAAAGGAGCACCCCAGACCCACGAA A G G A A A A G A G G T T G A G G A G A C G G C A G A A G G A G A G A C A G G G G A AAAGAAAGAAGGAAGGGTTGGAAGAAACCAAGGAGAAAAGAA A GAA A GAGGGAGAAAAGGAGGAGAACCGGAGGAAAGGGAAGA $A \subset C A A A A G G G G G G A G A A G A A C C C A G A A A G C G A A G A A A G A G G G$ GAAAGAAAAAAAAAAGGGAAAAAAAGGGAGAAAAAAAAAAAG AAAGGGAAAGAGAAGAGGGGGGAAGAAGGACGAGGGGGAAAG GACAGAAGGAAACCCGGAGAAGGAAAACAAAGGAACCGGGGG G G GAGTTGGACGGAAGAGGGAGGGAGAAAGGAGAAAAAAAAC AAAAGCCCCGGAAGGGGCCGGAAGGACGGAAGAGGGGCAAAA GAAGGCCAAAGAAGGAACAGAAGGAAAGACAGGCAGGGAAAA GAACCGGAGGGGGACAAGGGGAAAAGGCCAAGGCCAAGGGGA A G G A A C C T A G G G G C C A G G G G G A G A A A GAGGGAA G G A A A A A G G GACGGAAGGAGGGGAAAGGTAAGGAAAGAAGAACAGAAAGGA

GAAAAGAGGGGAAGGGGGGAAGACAGAAGAAAGGAGAAAGAA G G G G G G G A G G A G G A A G GACAGAGCAAGGAAAGAGGGGCAGAC A G GAC G G G A A A A A A A G GAAAAAGGGGATAAGGAAGGGGGAGAA A G GCCAAGGAAACGAAGCCGGGGGGGGCCGAGGAATTACGGG A G GAGAACAGACGCCAGGGAAAAGGAAAGAAAAA GAAGGGGT
 GAAACTTAGGAAGAACCGGAAAAGGAGAGCAGAAGGGAGAAC CAAAGCGGGAGGAAAAAAAAGAACAACGAAGAAGGGAAAAGA C C A A C G A G G G G G G A G G G A GC C A G G G G G G A A G G A G G A G G G A A A AAAACGAGAACAAAAAGAAGGAAGAAGAAGACCGGAAGAAAA A A A G G A A A A G G A C G GAA $A$ A $A G G G T A G G A A G A A G G A C C A A A G A$ AAAGGGGAAGGAGAAAGGAAGGGAAGGCCAAAGAGAGAAAAC CAGAGAAGGAACCCATACCGGGGAAGGATCACCCCAAGAGAA C G A G G A G A GAA A G A A A A G G A A A A A A G GAA G G G GAAAAAA A G A A G GAAAAAACCGGAACAAGGAAAAAAGAAAGGGAGAAAGGGG G G GAGGGAAAGAAGGAAAGAAGGGAAAAGGGAGAA GAABGAG GAAAAGGGGAGAGGGGGGGGAAGAGAGAGAAGGGACAAAGGG G G G A A C A G A A G A G G G A G G G G G A A A A A A A G GA G G G G G G G G A A T $T G G A A A T G G A G G G A A G G A A A A A A A A G G A A C C C A A A A G A G C C A$ A GAGGAACCGGAAAATTAAAAGAATTAACAGAAAAGGGGAAG GAGGAAAAGAGAACGGGTACCGGGGCCAGTACCGGAAAAGGA G G GAA A A A A GAGGAAACGGAAGACCAAGAAAAAGAAGAGGGG G G GAACCAGAAGACAAGGGAAAAAAGAAAAGGGGGGGAACCC GAGGGCGGAGAAGGACCAAGGGGGGAGGGAAAAGGGGAAAAG GAAAAGGGGGAAGAAAGAAGGAACCAAGGGGAAAAGGTXAAG $G C \subset A A C C G A A A A A A A A A A G A A A A G G G G A A A A A A A A C C A G A G G$ G G GAAA A A G G G G GAAAAGGAAAAGGGGCAAGGGAACAGAATA $A C C A G C C G A G G A A A A A A G G A A G G G A A A A G A A A A G G A A A A G G G$ A G G A C G G G G A A G G G G G G G G A A G G A A G G C C G G G G G G C A C C A G A G G G G G A A A A GAGGAAAAAGAGAGGAAAGGAAAGAA GAA G GAGA G G G G G G G G G A A A G T A A A A G A A G G G G A A A G C C A A A GA G C C G G T TAGAGGGCCGGGGAACCAACCAAAAAAAAAACCCCTAAGAAT TGAGAAAAGCAGACAAGGAAGAGAGCACAGAAAGAAGAGGAA
 A A GAGGGAACCGGAAAACCAAGGGGGGAAGGAAGGGGGGGAA A G G G GCCAAGGTTGGAAAAAAAACCAAAAAAGGAAGGAAAAC CAAAACAAGGGGGAGAAAAAGGAAACCAACCGGTTAAAAAGC C G GAAAAAAGGGACCAAAAGGGGGGAAAAAAAGAGAAGGGGA A G G GAGGGGACGGAGAAAGGAGGCCACACGACATTAGAAAGA A GAA $A \subset A G A A G C A A A A A A A C C A G A G G G G G A A A G C A G G G A A G A$ AAACCAAGGAAAGAGAAAAAACCCCGGGGGGGGAAGGAACAA A A A A G A G A CAA A A A GCACCGAAACCGGGGACAGCCCABACAA GAACCGGAGGGAAAGACGAAACCGGAGGGAGGGGGGAAGAAG GCGGAAGGGAACGGGCCGGAAAACCGGTTGGAAGGACGAGAG A G GAA A A A A A G G G G GAGAGAAAAAGCAAAGAGAGAAAAAGGG GCAAA $\mathrm{C} A \mathrm{~A} A \mathrm{G} A C A G A A G G G G A A A A G G G G A A G G C C G B A G C A C A G$ A GAGGAC GAAA $A \operatorname{A} A A G A C G A A G G C G G A A G G G G A G A G A G G A G G G$
 AGAGGAACATTAAAAAACCGGGAAAAAGAGAAGCAAAAAGAA AAAGAAAACCCGACCAAGGGAAGGAAAGGAACCCCBAAGGAA A GGCCAAAGAACAACAGGAGGCCGGAAAAAAGGCCCAAAGAA CA GAAAAAAGGCCGGCCAAAAGGACAGGAGGGGAAGGGAAGG A A GAGGAAGCAAAGGAGGAAAAACAAAGACCAAGGCAGGCCA G GGCCGGAGGGAAAAGAAGACAGAGAAAGGAGCGACAAACCG G G A A A GAGGGGGGAGCCGGAAAAAAAGGAAGGGAAATAAAAA $A C C C C G G C C A G G A G G G A A C C C G A G G A A A A A A G A A A A A A A G A A$ A A GA $\operatorname{A} T \mathrm{~T}$ T $G A G A A A A G A A G A G G G G G A A A A G G G C A G G C C B A A A G$ A G G G G G G G G GAC C G G G A A C A G C C G G TA A G G A G G C C A G A A G G A AAAGGGAGAAAAAGGGGGGGAAAAGCCGGAGAAGGGAAAGAG

A GAGAAGAAAACCAAGAAAGAAGGGAGAAAAAAATGAAACCG GAAGAAAAAAAAAGGGGCCCCGGATGGAACACCAAGGGGCCA A G G A A G GCGAGCGCCGGAAGGAGGGGGAAAAAGGAACAA GAA T GAGAAGAAGAAGGAAGAAGAAGGGAAAGAAATGGGG
AAAAGGGGAAGCGGAGAAAAGGAGGGGGAACCGGGGAACCG A G GAC C GAAGCCAACCGAAGGGCCAGGGAAAAAAAAGGGAAAG
 G G GACCAGGGGAAAAAGACGGGGCCAAAAGGACGGAAAATXG GAGCGAAGGCAAAAACCGAAACCAAGGGGGACGAAAACAAAT TAAAAACAGAAAGAAGAAGAACAAAAAAAGGAGAGGGAGCAG G G G G A G A G G G A A A G G A A G G G A A A G A A G G G G G G A G A G A G A G G G G G GCCAAGGGGAGGACACCGGGGACAGGAAGAGAAGGGGGGA A A A A A G G A A A A G G A A G G A A G G G G G G A A G G G G G G T T A A G G A A GAAGGGGAAGGAAAAAAAAGGAAAAGGGGGGGGAAAAAAGGG G G GAACCGGCAAGGGGGAAAGACAAGGAGAGAAGAGGGGGGA GAACGAAAAAAGGCAAAAGAGGAAAGAAAGGAAAAGGGAAAA GAAGGGGAAGGGGCCAGGGCAGAAGAGGAAAAAAAAGGAA GA G G G G G G G A A A A G G G GC C G G G G C A A G G G A A G G G G G G A A A A C C C CAAGGGGAAGGGGCCAAGGTTGAAAGGAATTGGTTCCGAAC G GAGGGAAGGCCAGAACGAGAAAGGGAAGAAGAGBAAAGAAGC CAGGGAAGGAAGAGAGGGGGGGGAGGGCCAAAAAATTAGGGA
 G G G A G A G A A G G G G GAACAGAGCGCCGGAACCAGAAGAAAAAG G A A A A A G ACAAAACCGAAAAAAAGGAAATCCAAGGAACBAAC C G G G G A A G A C C G G G A G G G G C C A A G G G G A GAGAAAAAAAA A A C C T T G A A A G G A A G G G G G G G G G G A A G G A A G GAACCAAAAAA A A $\mathcal{A}$ A GAACACGACAGGGGGAGAGGGGCAAAAAAAAAAGAAAAAAA $A C C A A G G A A G A G G G G A A G G G A A G G A G G A A A G A G G G G A A A A B A$ A GAGAAAGGGGGAAGAACCAAGGGAAAGGGGAAACGGCCGGG G GAGGAGACAGCCAACCGAGAGGGGACGGGGAGGGCACAAAG GCCAAGGCCAAAAGGAAAAAGACAAGAGGAAAAACBGAGGGG GAAAAGGGGGGAAGGGAAAAGAAAGGGGAAAGGGGGGGGAGG G GAGGGAGGACGGCCGGAGAGGGAGAACCGAGGAGGAGAGGC C G G G G A A G GA G GAAAAA $A \operatorname{A} A A A G A A G G G G G C A A A C C C C C C G G G$
 GACAAAGGGGGGGAAAAAAAAAGAAGAGGGGAAAAAAGGGGG G G GCCAAGGAAGGGGGGGAGAGGAGAGAAAGAAGAGGAAAAA AAAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGAAAAAGC C G A G G G G A A G G G G C A A A A A G G G G G G A A G G A G A G A A A A G G G A A $A C C G A A A A A A A G A G G C C A G G A A A A G G G C C G G A G A A A A A G A A A$ G GAGAACGGGGGGGAGGAAGGAGCCAAAAGGCCGAAAAGGGG G GAGAGAAGCCAGAGGGGAAGGGAGGGAGACAAGGAAAAAAG G G G G G A G G G G G G G A GAGGGCCAAAAAAAAGAAAAGGAGAACA AAAGGAAGGAAGGCGGACCACGGAAAAGGAAGGCCAAAAACAA A G G A A G G A C G G A C G G G GAA A A G G A CA G GAGGCCGGGAA GAAA A A C G G G G G GAGGAGAAAGGTTGGAAGAAGGAAAAAACAAAAA A A A G GAGCCCCGGAAGAAGAAAGAAGGCAGGGAACGAAAGAA GAA A G G GAGGGGAAGGAGGAAAAAGGGGGAAAAAGGGGACAG G G GAA A A GAGGAAAAGGGGAGAAAAAAAACAGGGGGGAGGGG G G G G G G G A G G G G G A A G G G G A G G G G G A A G G C C G G T T G G A A A C A A A A A A GAA A GAAAGGGAAGAAGGAAAAGGGGAAAACCAAAAG G G G G G G G A A A A A A G A G G G A G G G G GAAGAGGGAGAGCCAAC C C C G A G A A A A G G G A A A A C C G G G G G G A A A A A A A A A GAGAA GAC CA A A A A A A GAGGGAAAGAAAAAAGGAAGAGACACAAAAA GAAAA G G A A G G A G G A G G G G G G G G G G G G G G G G G G G A A G G G G G G A G C $C A$ A A ACC GAAGGAGGCAAAGGAAAAGGAACCAAAACCAAAAAAG A A A G A A G A A A A A A A A $\mathcal{A} G G A G A G G G G G G A A A A G G A A A A A A G G G$ GAAGACCGGCCGGGGAAGGAAGGGAGGAAGGGGGAGAAAAGA AAGAGAACCAAAGGGAAGAAACCAAGAGAAGGGAAAAAGAGA

CAAAAAAGAAAAAGGTAGGAGGGAACCGGGAAAGGGGAAAAG GAGAGACAGAAAAAAAGAGAGGAGGGACAGGAAGGAGGGGAG A G G G G A A G A G G A G A A A A G A A A GAAA $A \operatorname{A} G A A A G A A A A G G G G G G C$ $C G G G G G G C C G G A A A A A A C C A A A A G G A A C C A A G G A A G G A G G G A$ A G G G G GACAGACCCCGGAAAGAGAGGAAAGAACATAAAGCCA A G G A G A G C C G A G G A A G A A A A G G A G G G A G G G GAAAAA G G G G A A $G$ G G A A A G G G G A A G G A A A A G G A G A A G G G G G G G G G G G G G A G G G G G GAATTAGAGAGGGAACCAAAGGGAACCGAAAGAACAGAGAAA A A A A A A A A A G G A A G A G A A A GGGAACGAGAAAGGCCGAAAGAG GAAGGGGGGGGAAGGAAAAGAAAGGCCCAGGGGAAAAAAAAG GAAGGTTGGGAGAAAAAAAAAAAAGAAGGTTGACCAACCCCC C GAAAGGAAAGGGGGAGGGCCAAGGAGGAGGGAGGCCCABAA
 G GACAGAAACCAGAAACGGAAAACCGAAAAAACACGCGACAA GAGAAAGAAAAGAGGGGCCGACCGAAGAAGGGAGAGAAAAGA AAGCCGGAAGGAGAACCGGAGGAAAAGAAGAGAAGAAAAAGA
 A G G G G A A G G G G A G A C A GAA A A G GAGGGAAAAGGAACCAAGAA GAGGGAAAAAAGGACGAAAGGAAGAGAAAAAAGCAAAAGAAA A A A A A A A A G G G A G G G G G G G A A G G A G A G A A A A G A A G C C A A A G G A G G GAAAAGGAGAGGAAAGGGGGAAGGGGGAGAAAAAGAAAA G GAA A GAGGGCAGGGAGGAGACAAAGGAAGAGAAGGACAAGA
 GAACCAAGAAGCACCGGGGCCAGCCAAGGAGAGGGGAAAAAA A G GAGCCAACAACGGAAGGGGCAGGAAGAGGCACCBAAGGAA G GAAAATGGAAGGGAAGAGGAAGAGGGGAGGGGGGCCAAGAA G G G C A A G G G G G A G A A A GAGGGAGAGGGGAAGAGCC GAAAGAC C G G A A G G A G G G A A A G G A A G G G A G G G G G G G G G A A A C G G A A G G A A A A G G G G A A G G G G G G G G A G A A A A A A G G G G G A C C A A GACAG G G GAAGGAGAAGGGAAGCAAAAAGGAAAAAGAAGGAAGAAAAC T T G A A T G G A A G G G A G A C A A G G A G A G A G A A G G G G G G G G G G G G A $G$ GAAGGAAAAAAGGGGAAGGAAAAAAGGGGCCGGAACCGGGGT TAAAGGGCAAACCCAAACCGGGGAGGAGACAGGAAAGGAGGC CAAAAAGAAAGAGAAGGCCCCAACCAAAAAGTAGGAAGAAAG A GACAAGAAGGAAAACCAAGGGGAATTAACCGGCCGGAAAC G GAAGAAAGGGGCAGGAGAAGGGAGGACAGAGGGAAAACAAGC C G G G G A G A GCA A G G G G A A G G G G G A G GAGGGAGAAT G G G G G G G A A A G GAA A A G G GAGGAGAAGAAAAGGAAAAAGGGGCCC GACAA AAAGGAACAAGAGGGAAGGGGAAAAAAAAGGAACCGGAAAAC C C C A A A C A G G G A A A A A A A A A A G G GA GA G CA GA G G GAA GA G G G G G G A A G G C A A A A C G G G G G G A A A A G G G A A A GAGGAGAAAA A G A G G G G G G A G G G G G A A G A A A G A A A A G G G G G A A A A A G G A A G G C C G GAAGGAAGGAAGGGCGGAAGAAAAGAAAAAAAAAACCGAAAG GAAGGGGAAGGGGAAAACCGGAAAGAAGGAAAAGGGGAAAAC C C C C A G C A GAA $A \operatorname{GGGGGGGGAAGGGGGGGGAAGAAAAAAAAAG}$ GA $A \operatorname{A} \operatorname{A} G A G G A A A A G A A A G G C A A G G A A G C C G G G G G G A A G A A A G$ GAACCCCCCAAAGCAAAGGAAAAAAAAGAAGAGGGGGCAGGAB A A A G G A A G GAAAAAAGGAAAGGGAGAAAAAACCAAGGAAGGG GACGAAAGGCCGGAAGGAAAAAAACAAGGAGGACAGAGAGGA GTTAGGAAACAGAAAACAAAAAAGGAAGGAGGAAACAGAAGG GCCGAGGAGAAGGAAGAAACCCCGGAAGGGGGGAAGGGAAGG $A C A G A A A C A A C A A C C G G A A A A C C A A G G G A G G A A G G G G G A A A A$ $A C C C C A A G A A A G G C A G A T T G G G G A G A G A G G A G A G G A A G G G G G$ A GACAAAGGCCGGAAGGAGGGGGAAGGCAGGGGGGAAAAAGA A GAAACCAAAGACGACAAAGGAGCCAGAGCCAAGGAAAAGAA ACCAAGGGGAAGGCCAAAAAAAAAAAAAAAAGGGGGBAACAA A A A A A C C A A $\mathcal{A} G G G G A G G G G C C G G G G G G A G A A A A A A G G A A A A G$ $G G A G A A G G A A G A G A G G A G A A G A A G C G A A A G G G A A A G A A C B A A$ G G GAAAAGGGGGGGAAAAAAGGGACTTGAAAGGAAGAAAAAA

A GAGGGAGAAAAGAAACCCGAAACCAAGGAGGGGGAGGGGGG GCCAGAGAGGAGAGAAAAGAAGAGAACGGCAAGCGAAGGGGA G G GAACCAAGAGGGGAAGAGGCCAAAACCAGCCCCGAAAAAG GAAAGAGTAACGGATACGGACAAGGGGGGAAAAAGAG

 G GAGAGGAAGGGGAACAAAGAGAAGGGAGGGAAAAAGGAGBA AGGAAAAAAAAGGCAGGGGAGAGCCCAGGAAGAAGGAACAAA CAAA $A \operatorname{GAT} T \mathrm{~T}$ (AGAGAAGGGGGAAAAAAGGACGGGGGGCCGGA A A A A A A A A G G GA $\mathcal{A} G G G G G G A G G G A C G A G G G G G G G A G G G G C C G$ GAATTGGGAAGGGAAGAAAAGAGGAGGGGGGAGCCAAAGCCG A A G G GCCGAGGGACAGGAGGACAGGAAGGACCCAAGGGAAAA
 A G G A A G GAAGGGAAGAGGAGGGGAAGGAAAACCACAGAAGGA A A A GAA A A G G G A GAGGGGAAAAAGGAAAGAGAGGAGAAAGGG
 GAA $A$ A A A A C A G GA G GAA $A \operatorname{A} A A A A G C A G G A A A G G G A G C C G G G G G$ GCCGGAAGGGAAAAAAAAGAGAAGAAGGGAAAAAAGAGAAAA AAACCCCAGGGGGATAGAAGGAGAAGGAGGAAGGGGGGGGGC C G G A G G G A A G G G G G G G G A A G G C C A A A A G A C C A A G A A G A A G A G AAAAAAGAAGGAAAGCCGGAAAAAGGGGGGGAGAAAGGAGAA AAGCCCCAGAACAGGAAGGGAGAGGACAAGGAGCCGGAAGGG G G G A A G G A A G G A A G G G G A G A A A A C C A A G G G GAA $A \operatorname{G} G G G G G A G$ GACGGAGGGGAACAGAATTAAAAGGGGGGCCGGAAGAAAGGG G G G G G A A A A C C C C G A G G GAGGGAGGAGAAAGGGAACCAAGG G GACCC G $C$ GAA $A \operatorname{AAC} A G G A G G G G A C G G G G A A G A G G A G G G G G G C A$ C G G G GA A A GACAACCGGCAGAGGGGAAACAGAAAGGGGGAGG $G C A A A G G A G A A A A G A G G G G A G A A A G G A A G A A A A A A G G A A C C G$ G GAA A GAA $A \subset C C \subset A G G G A G C A A G G G G G A G G A A G C A A G A G A G A$ G G G G GAAA $A \operatorname{ACCGGGGA} G A G A A C C G A A C G G A C A A G G A G G A A C B$ GAAGGGGAACCGGGGAGCCGGAGGGAGGAAAAGGGCCGAAGB G G G G G A A A A G G G G C C A G A A G G C A A A A A G G G G G G A G A A G G G G G G GAGGGGGAAAGGGGAAGAAAGAGAAGAGAAAGCCAGAGGGG
 $G C \subset A A G A A G A G A A C C A A G A A G G G G G A A A A G A A G G G G G G A A B A$ G G G A G A G A G T T G G A GACAGAAGGGGCCAAAAGGAGCAGACAA
 GAGGGGCAAGGGGAGGGCCGGAAGGAGGGCAGGGAACCAAGG

 $T G G C A A A A G A G G A G G G A C C G G G G A G A A A G G G A G A A G A A C G A G$ C G G G G G G A A G A A A G G G G A GCCAAGGCCAAGAAAAGAGAACAA A GAACGGGGGGGGAAAAGGCAGAAAAAAAAAAAAAGGCCBAA TACGGAGCCGGGGAAAAGAGAGAGGGGAACGAAAACCGAAGAA A A G G GCAACAAGGACAAGAGGAAAGGCGGCAAGGAAAGATAC CA GAGAAAGAAAGGAAAACGGAGAAAACGCCACAACCAAAGC CAAAAGGCCCAGGAGGGAGAGAGAGAGACCCAAAAAAGGGGG G GCAACACAGAGGAAGAAAAAGGAGACAAGGAGAGAAGAAGA ATAAAAAAAAAAAGGGGAAAAAAGGAAGACCGGAAAAGGGGA GAAAGAAGACCAAAACCAAAACCAACCGAAGAAGGAGGAAAA A G GA $\operatorname{A} G \mathrm{G} C \mathrm{C} A C A A A A G G A A A A G G G G A A C C A A G G A A G G G G C A C$ AGGACGGAAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAACAA A GAG G A A A G G ACCGGCCCCAGAAGGGGAGAGGGAGAAACGAA GACGAGGGGGACCACGACCCGGAAAAAGGAAAACCAAAGAAA A A A A A A A A A A G GAAGGGCCACCAAAAAGGAAGGGGGAAAGAG GAGGAGGGGAGAGGGGAGAAAGGGGGGCCAAAAAAGGCAGGC C G GAGGAGGAAGGAATTAAAACAAGAAAACCGGAGACACAAA $A C C G G A A G G A A G A G G G G A A A G A G C G G G G G A A A A A A C A G A C C B$ $G G A A A A A A G G G G A A G G G A A G G A G G G G G G G C C A G A A A A A A G G A$

A G G G G G G G G G G A A G A A G G G G G A A A A C C G G G GCC G GAACAAAA $A C C A A G G A C C C G G A G A A A C G G A G G G A G G A A G C C A G G A A A G G G$ $G G A G G A A G G A A G G C C G G G G G G A A G G A G G A C C A A G G A G C C G G G$ G GGCCGACAAAAGAGACGAAGGGAATTAACCAAAAAAGECAG GAAAAAAGGAAGGAAAACAACAAAAAAGGAGAGGAGAAACAA C C C G G A A G A G G A A G A G G A A G G G G A A A A G G G G A G G A A A C C A A C CAAGGCCGGAAGGCCGGGGACAAGGAAGGCCGGAAAAAAAAG GAAGGACGGAACCAGGGAAGACCGGGGAACCAAAAGACXTAG
 A G G G GACAACCAAAAGGAAAGGAGGAGAAAAAGGGAAGGGGA CAGGAGAAGGAAAAAAGCAACGGAAGGAGGAATAAGGAAA GA CA GAA $A \operatorname{GA} \operatorname{A} C C C A A G A G A C A A T A G G A A A A C C A A A A G G C C G G G$ GAAAAAACCAGAAAAAGGGGAAAAAGGGGAAAAAAGGGAAAG GAAAAGGGGGGGGGGGGGGGAAAGAAAGGAAGGGGAAAAAAG AAGAGGAAGCCAAAAACAAACAACCCCGGCCAAGGAAGAGAG G G G GAAAGGAACCCCGAAAAAGGAGGACAGAAGAAGGGGAGG GA $\operatorname{G} A A A T G G G A A C A G G G A G A A C C G G G G A A G G G G C C C C B A A A A$ A A A A A A A C C G G G GAGGAGAGGAACCGGGGAAAAGGAAAAAAG GAAGGGGGGAAGGGGCCAAAAGGAGCAAAGGGGAGAAGAAGA A A ACCAGAGGACAAAAAGGAAGGAAGACACCGGGAAAGAACA ACCAGCCAACCGGAAAGGGGGGGAGAACCGACACAGAGAATA GAGCAGAGGGGGGAAAAGAGAAAAGCAGAAGGAGAAAAACAA GAAGGCAATAAAGGAGGAGCCAAACACAGGGCCAGAAAGTAA GAAAAGAGGGGCCAAGGGGAAGAGAGGGGGAAAGGAGGAGBA A G G G G A A A C A A A GA A A A GAAA $A$ A $\operatorname{A} A G G G G G A A A A A A A A A G G B A$ A A A A A G GAA A G TAGGAAAAAAGAGACCGAAGAGGAGAACAAA
 GAGGGAAAGGGAACAGAAGGGGGAGGGAAACAGAAAGATAAA G G G A A A A G G G G G G G GAAAAAGAACCCAACAGGAGGAGACCCG G G G G GAGGAGAACGGGGAGAGGAGGGGACGGAAAAAGAAAAG A G A G A A A A A G G A A G G G G G G A G G G C A G G G G A A G A C A G G A A A A $G$ G G GCAGGGGAAGGAAAAGGAGAGAAGAAAAAGGAAGAAACC G A G G GAAATTAAGGGAGGAAGGAAAAAGAAAAAGA GAGATGAA

 $C \subset C A G C A A G A G C A A G G G A A G G C A A A C C G G A G C C G G G G C C G G G$ G G GAA A G G A A GAGGGAGAACCGAAAGAGGGGCCGAGAAAGGA AAAGAAAGAAGAACCGGAAAAGGCAGGGGGAAAAAGGGAAAA G G G A G GCA G G A A A C C G A A GCGGGGAGGAACCGGAGAAAGAAA G G G G G A A G G C C C C A A G G G G G G G G C C A C G A A A C C C C G G G GAA A GAAACGGGACCGGCCCCAGAGGGAAGGGGCCCCCCAGGAACA GAGAGAACCAAAAGGAAGGGGAAGGGGGGAAAAGGAGGAGGA G GAGAGATTGGAGGGGAAAGGGACGGACAAGAGCCGGGAAAA GAAAAGGAAAAGGGGGGAAGGAGGGGGGAGGAAGAGGAGAAG GAAGGAAGAAACCGAAAAAGGGGGGCCGGAAGGAGAAAAAGB G G G G G A A G G G G A A A A C C G G G G A A A A G G G G G G G G A A G G A A G G A A G G A A G GCCAAGGGGAAAAAAGGAAGGAAGGAAGGGGGAAAAA
 G G GAAAAAAGGCCGGGGAAAAGGTTAAGGGGGGAAGGCAAGA GAAAAAGACGGGAGACCCCGGAACCGGGGAAAAGGGAAAGAA
 A A A C A A A G G G G G G G GCAAA $A \operatorname{AGGGGGGGAAAAAAGGCCGAAAC}$ C T TA $\mathrm{T} G \mathrm{G} C \mathrm{~A}$ GAGAAAAGCCGGAAAAGAAGCCCAGAACGGGGC $C G G G G G G A A C C G G A A A G A A A G A A A A A A A A C C G A A G C A A A G G A$ A A G G GCCGGAGAGGGGGAGGGAACAGACCAAGGAGAGAGAAA GACGAAGAACAGGGGAAGGAAAAGAAAAGGGCAAAAAAAGAA ACCGGGGAAGGAAAACCGGGAGGAAAGAAGGAAAAGAAAA GA
 AAAGGAAAAAAAAGGGGGGGAGGCCAAAACAAAAAAGAAAAG

GCCGGCAAAACAAAGGAGAAGAAAGAGAGAATTGGGGAAAAA AAACCAAGACAGAAAAAAAAAAAAACCGAAGAGGAAGAAAAA A A ACCAAGGAAAAGGAGAGGGGGACCCGGCCGGAAAAAACAA A GACCAACCAAAAAAGGGGCCCCAAGGCAGGAACCGG
A G GAA A A G G GCCAAAAAAAAGGGGGAGGAGGGAAAAGGAAA G G G GAGGGGAGAAGGGGCCGGCCAGAGGGGAAGGAAGAAAAG GACCACAGAGAGGGGGGACCAGGAGCCAGAGAGGGAAGACAG GAAAAAGAAGAGCGGAAAGAGAGACAAAGAGAAGGAAAACAC CAAAAA A $A \operatorname{A} \operatorname{A} A A G G G G G G G G A A G G G G G G A C A G A A G G C A G A A G A$ $A C C G G C G A C A G G G A A A A A A G G G G C C G G A A G G G G A G A A G G G A G$ G GAA A G GAA $A \operatorname{A}$ GAAAAAAGAGGGCAAAACCGGGGCAGGAAAAC CAACCAAGGCCAAGAAAGAGGGGGGAGGGGGAAGGCABACAC C C C G A GAA $A \operatorname{GCGGCCGGGGCCGGGAAAAAAACCAAAGGAGGA}$ GAAG $A \subset C G G G G G G A A A A G G A A A A G G A A G G G G A A G A G G G G G A T$ AAAGGGAGGGAAATTAAAACAAAAACAAAAGAGAGCAGACCA GAACCGGGGAGAACAAGAAGGAAAAGGGGCCAAGAACCAGAC CAAA $A \operatorname{G} G A A A \operatorname{A} A A G G A G G G A A A G A A C C A G A G G A G A A G G A G G A$ A G G G G G GCCAGAACCGAGGAGAAGAAGGGGGGAAGGGAAAAA A GAAGCCAGGAGAAAAAGGGGGGAAAACAGGCCCAAAAAGAA $A C C C C A A G G A A A A G G G G G G A A A C G G A G G A C C A A A A G G G A G G G$ A GGAAAGAGAAGGAAAGCCGGAAGGGGAAGGGGAAGGGAAAG GAAGGGGGGAAGGGGGGAAAAGGGGGGAAGGAAGGGGAACAA A G G T T G G G GAA $A \operatorname{G} G A A A A A A G A A A A A A G A G A A A A A A G G A G G A G$ G G G G G A A A A G G G G A A A G A A A A C C G G CA GAA $A$ G A GA G G G GA G A GAAG $A$ G $A \operatorname{GG} G A A A G G A A G A A T T A G C A G A C G G G A A G A A A C A G A G$ A GA $A \operatorname{GA} A C C G G G A G A G G G A C C A A G G A G G A G G C C G G A C G A G G A$ A G G G GAAA A G GAACCAAAGGGGGAGGGAAGACAAAGGGAAGA $A G G G G G G A G G G G G A A G G G A A A A C A G G G G G G G A G A G A G A A A G B$ AAGGGAAAAAAGAACGGACAAAAGGCCGGAAAAGGGGAGCAA $A G G G G G G A A G G A G G G A G G G G G A A G G G G A A A G C C G A A G A G G A A$
 G G G GAA ATTGAAGCCAGAAGGAAGGGGAGACGAAAGAAAAAA AAGGGCACAGGAGGACACCGGAAAAAAAAGGAAAAGCBAAGA ACCGGCCGGGGGAAAGGGGGGAAAGAAGGAAGGACCCAAGAC C C C G G G G G G G G G G G G A G G G A A G A G A G A A A G G G A G GC C G G C C C C G G G A C C G G G G A C A C G G G G G G T A A A G G G G G G A A A A A A G G A A A A G G G G A A G G G G G GAAAA A G G G G GAA $A \operatorname{AGGGAAAAAAACCGGAGG}$ GAAAGCCAAGGGGGGCCGGGAAGAGACGGAAAACCAAGAAAA ACCAGCCAACCAACCGGAAAAAAAGCCGGAAGAGAAGGGGGG G G G A A G G A G T T A A A $C$ G $G A A G G G G G G G G G G G G G G G G A A A A G A T$ TAAGGGGAAAAAGAGGGGGAAGAAAGGCAAAAAGGGGAAAAC C GAGGAAGAAAGAAGACAGCAGAAAGAGAAGAAGGAAAAGAC AAGGGAAGGGGCCAAGGGGAAAACCAGACAGAAAAAAGGGGA A G G G G G G A A G G G G A A G G T T G G G G A A A A G G G G G G A A A A G G T T G G A A G G G G G G A A T T G G C C G G C A A A G G G G A A C C G G G G G G T T C C G G A A A A A A A A G G G G G G G G A A G G G A G A GAGGAGAAG GAAAAAA A
 AAACGGGGAAGGCGGAAAGGGCAGGGGAGGGAGAAAAAAAGA T GAA A A A A GAA A G GAGGAAGGGGCCCCGGAAAAAAAGAGGGA G GACCAGCAAGAGAAAAGGAACCGGGGAGGGAAAGCCGAAGG G G GAAAAGGAGAACCGGGGACAAAGGGGAAGAAAGCAGAAAC
 AAAGAAGGAAGAACCGACCGGAGAGGGAAAAGGAAAAAAAAA C C C A G A A G A GAAAGGGGGGAAGAGAGGAAGGGAAAAAGAGAA ACAAAGAAGGACCCCGGAGAGAAGGGGAAGGGGAAAACAAAG
 A G GAAAA $A \operatorname{A} A A A A A G G A A G G G G A A A A C C G A A G A A G G C C A G G G G$ GACAGGAGAGGAAGAGGCCGGAAGACCAAAGCCGGAAGAAAG GAGAAAAGAGAAAAGAACCAAAAAAGAAACCGGGGCCAGACA

AAAGGGGGAGAGAAAGGAAAGGGAAGAGAAGGGGGGGAAACA ACAAAAAAGGGAAGGGGACTAGAGAGGGGAAAAGGGAAAGAA A G G G GAAGGAAAAAACAAACCGAGAAAGGAAGGAAAAAACCC $C \subset C A A G G G G G G G G A A A C A A A A G G C A A G G G A A C C C C A G A G A A G$ GAAAAGGAGAGGGGAAAAAGGCCAAAGAACCACAAGAAGAGG G A A A A A A A G G A A G G A A A G A T T G G A GAGAAAAGAAA G GA GAA G G G GAGAACCAAAGCCAAGAAAAAAGCCCCGGCCCAGAAAGAG
 A A A A G GACAGAAAAGAAAAAAGGACAACGGGGGAGGACCCCG G G GAGAAAAAAGGGGAAAAAAAAAAAAAACCAACCGGCAAAG G G GAGAACCAGGAAAAAAAGGAGGACGAGAGAAGGAGGAACT TGAAAAAGGAAGGAAGGTAAGAAAAGGGGCAGGCCBAAAGAA $A G G A G C C G G A A G A G G G G A G C C G G G A G G G A A G G G G A G G A A A G A$
 G G G G GAAAAGGGGAGAGAAGGGAGGAAGAGAGGGGGGCAAAA C GAA A A GCCGGGGAGAAAGGGAGGGAAAAAAAAAAAGAAAA G G G G GAGGAGGGCCAAGGCCGGAAGGAAAAGGAGGAGAAAAAA $A C C G G C A A A A A A G G G G G G A G G G A G G G G G G G G A A A A A A G G G G G$ GAGCAAAGGGGAGGGCCGGGGACAAGGCCGGAAAAGGCCCCB
 G G G G G T TAGAGAAGAGGGGAAGACCCAAAAGAGAACACAAGA
 A A G A A A A A A G G A A CAC CA $\mathcal{A} G G \operatorname{GAAAAAAAAGGAAGCAAAGGGG}$ AA GAAGGACGAAAAAGGAAAAGGAGGGCCGAGGCAAAGAAAA A A G GACCGAGGGGGGGGAGAGGAGAACCCGGAGAAGAAAAAG G GAGGGGGGCCAGGAAACGCAGGGAGGGAAGAGAACACAGAG G GAAAAACACAAGGAAAAGAGGAGGGGAAAAAAGAGAAGAGA A ACGAGAAAAAGAGGCCGGAAGGAAGGGGAAGGCCCCTTGAA GAACCGGGGGAAGCCAAAAGGAAGAAAGGGATAAAAAGAAAG A GACAAAGAAGAGAAGGAAAAAAAAAAGGGGAAAAGAAATTC $C \subset C G G G G A A A A A C C C A G C C G G G G G G A A A C G G A A G A G A A G A G C$ ACGAAGGGGGACCCCGGAACAGGAAGAGGAAGGAAAAGGAGG G G G G G A A G G G G G A A G G G G G A A A A G GAAAACA A G G GAC G GA G A A G G A A C C A A A G A A G GAA $A \operatorname{GAA} A G G G A A A A A G G C C T T C C A G A A G$ GAAGGCCAACCCCGGAAGGGAGGGGCCGGAAAAGGGGAGGGG AGGAAGGCCGGGGGAAAAAAAAAGGAGGGAAAAGGAGGAAAG GAAAACACAGAAAAAAAGAGGCCGAGAGGAAAGGAGAAGACA G G G GAGAGGCCCAGAGGAAAGAACCGGACAAAAGGCAAAAAA G G G A A A G A G C C A A G G G G G G G G G G G G C C G G G G G G A A G G G G C A A A G G G G A A G GAA A A C C G G A A CAGGGGGGGGAACGCCAGAAA GA $A G G C C A G G G A A A A G A G G G A A G G G G G A G A G A G G A G G A G G G G G G$
 AGGGGGGAAGGGGAAGGACGGCAAGAAGAGACCAAAGAAACA A A A A G A G G G G G A A G G G G G G G GCC G G A A A G GAA G G G G GAAAAA GAAGGAAAACCAACCGGAGAGAGGGCCAAGGGGGGGAGAGGA $G G A G A A A G G A G G A C G G G G A G G G G G G A G A G G G G G A A G G G A G G G$ A G G G G A A A A A G A A A GAGAGAACAAGGGGACCAAAG GAAA A A A A A G GCAC $C$ G G G GAATCCGAAAGGGGGAAAGGGGAGGGAAAAGGA G G G GAAAGGAGCCCAGACAGGGGAAAGGACCAAAGAAAGGGG GAAAGAAGGAGAGGGAACAAAAAAAGAAAGGAAAA GGGGGGA A G G A A G G A CAA A A G GCATTACAGGCAAAAAAAGGGAACAGGA AA G GAACGAAAGGAGAGAAAAGGAAGACCAAGGGAAGCAGGG A G G A G A A G G A A G G G G G G G G A A A A G G G G G G G A A G G G G A G A A A C A G G G G G GAGGAGAAAGGCCGAAGGGAATTAAGGGAGGGAAAC
 GAGGAAAAAGGAAGGAGACGGACGAGGGAAGACGAGAAAGGA A A GAAAA $A \operatorname{A} G \mathrm{G} A \mathrm{G} G \mathrm{G} G A A A A A A A A A G G G G A A A A A G A G G G A A A A G$ $G G G G G A G A C G G G G A A A A G G G G G G G G C C C C G G A A A G G G G A G G G$ $G G G G A A G A A G A C C G G G A A A C C G G G G C C G G A G A A A A G G G G G G A$

AAAGGGGGGGGGGCCCCACGAAAGAAAGAACAAGGAGAACCA A A ACGAAGGAAAAGGAAAAGGCCGAAAAAAGCAAAAAGGGGA A G G G G A A A A G G A A A A G GAA A GCGCCGACAGAAGGAAGCAGAA $A G A C A G G G G G A G G G G C C G G A A G G A A G G A G G G A G G G A G$
 G G G G G A A A G A A G G A A G A G G T T A A G A A G G G G G A G A A A A A A A G G G G G G G GAGGAC GACCAAGGGAGGGGAAGGCCGGGGAGAAGAG GAGAACCAGGGAAAGAAGAGAGAGAGGGGGACCGGAAAAGGA A G G A G G A G G G G A G G A C C A GACAAAA A GAAAAAAAAAAAGGCCG GAAGGAAAAGGAAGGGGAAACAAAAAGAAAAAAGGGAGGGGA GAACCGAGAAACAAGAGAGAGGAGATAAAAAAGGGGGGGTTG GAGAAAAGGCCAAAAGGAAGGGGAAAAGGAAAAACAGCAGAA GA $\operatorname{G} G A A A C C A A A A A A G A G A G A G G G A G G G G G G G G A G A G A G A A A$ A GAGGCAAAGAAAAGAAGACCCCGGAGGGAAAAAACCGAAAA $A C C A A G G G G A A A A G G A G C A G G C A A G G A A G A G G G A A A G G A G G C$ C GAGGAAAAAATTAAAAGGAAGGTTAAGGGGCCGGGGGGGGG G G A A A A G A G G A A G G G G G G G G A G A G A A G G A A A G G G GAAC C G G G G G G A A G G A A A A G GAAAAGGGAAGAAAGGAAGCAAGAAAACAA $A C C G G A A C C A A G G G G G G G G G G C C A A A A A A A A A A G G G G C C G G G$ G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G G G G G G GAAAAAAAGGAAGGGGGGAAAAAAGGGGGAAAG GCCGGAAAAGGAAAAAAGGAAGGGGAATTGGGGAAGGGAAAA A A A A A G G G GAAGGCCGGAAAAAAAAAAGGGGAAAAAAAAAAG GAAAAGGAAAAGGAAAAGGAAGGAAAACCGGGGAAAACAGBA
 A G G G G A A A A A A G G G GAAGGCCCCAATTGGAAGGAAAAGGGGA A G GAACCGGAACCGGGGAAGGAAAAGGCCAAAGAAAAAACCC C A A A A A A $\mathcal{A} G G G G G G G A A A G G G A A G G A A G A A G A A A A G A A G A G A$ A A GAGAACCGGGGGGGGGGGGGGAAAAAAAAAAGGGGCAAAA AGGAAAGGGAAAGAAAAGGAAGAAAAGAGACAGAAGGGGGGA A A A G G A A A GAA $A$ A A A G GA A GCCAAGGGGCCAAGGAACCGGCCA AA $A$ A $\operatorname{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A A G G A G A G C G A G C C A G G G A G A A A G A G G G A$
 AGGCCGAGAGGAAGGAAAAAAAAGGAAGGAAGAGGAGAAAAG A GAAAGGGAAACCATACGGAAGGCCAAGAGAAAAAAAAAAAA
 GCAGGGGAGAGCAGACCAGGAGGCCCAAAAGGGAAAGAAAAG GAAAAAAAAGACCGGGGAAAAGAAAAAGGAAGAAACCGAAGG $A C C A A G A A A G G A A A A A G G G C C G G A G G A G A G G A A C A A G G A G A A$ A G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A A A A A A A A G A G G C C G G A A A G G G A A G G G A A A C$ C G G A G G G G A G A A G G GAAAAAAAGGGGGGAGGGGGGGAAAAAAC A A T A C G G G A G A A A A A $\mathcal{A} G G G G G G G C A A A A A A G G G G G G G A A G A A$ AAGAAAGCGAGAAAGAGAAGAAAGGACGAGGAAAGAGAAGGG G G A TAAC GAAAAAGGAAGGAACCCCAACCAAGGGGGAAAGAA
 G G G G G A A C C G G A A A A G GAA A A G G G GCCAAAAAC G G G G G G C C G G G A G A A A G G G G G A A A A A A G CC G GAGAAGAGGGGACCACACAA A G G G G G GAAAACCAACCAAGGAACCGGCCGGGGAAGAAAAAA G G G G GAGCCCCCAGGCAAAGGAAGGGGAGAGGGGGAAGAAGA GAGAAAGAAGAAAACGAGAGAAGAGGGCCGGGGGGGGCAAAA A G G G G G A G GAA $A \operatorname{GGG} \operatorname{GA} A A A A A G G A G G G C C A A A G A A A A G G G G A$ GAAAGAGCAAACAAGGAGAGGGGAAGGGAAGGAAAGGGGGAC A A A G G G A G A G A A A A T G G G G C C A A A A G A A G GA $A$ A $A$ A A A A G G G A AAAGGAAGAGAGGCCAGACAAGAAAAAGAAAAACCAAAAAAG G G G A A A A A A A A G G G GAGGGGGGAGGGGGAGGAATXAAAAAAA A A A G G GA $\operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{G}$ A A A A A A A GAAAGGGCXAAAGACAAAAGAA
 $G G G C C G G G A G G G G G G G A G A A T C C C C G A A G G A G G A A C C T X G G G$ G G GAA A GAAAAAAAAAGGAACGGAGGAAGGGAAAAAAAAAAC

A G GAAAAGGGGAAGGGGAAAGACGGGGGAACGAAGAGAAAAA CAAAAGAGGGGAAAAAGAAAGAGGACAAGGAAAAAGAACCAA A A A G G A A G GAA $A \operatorname{AGGAGAACAAGGAAAGGCGGAAAGGAAGAGA}$ G GAGAGGGAGGGGAAGGAAACGGGGGGCCAGCACACAAACCG GAGACAGAAAAAAGGGAAACCGGGGGGGACCGAAAAAAAGAA GAAA A A GAAGAGGGGAAGGGACAAAGAAGGGAACCAGGAGGC C GAGGGGAATTGGGGGAAGGACCGGGGAGAAAAGGAAAGAGC AGGCGACGAGAAGCAAAAAAAGAGAAAAAGAGAAACACACAA A G G G G A A $\mathcal{A} G G G G G A A G G A G G A A A G A A A G A A G G G C A A A A A A G C$ CAAGGCCGGGGAACCCAGGGAGAAAAGGGAGAAAGGAAAGGA G GAGAGAGGGGCCAAAAAGAACAAGGGGAGAAAGGAGGAAAG GAGGAAAGAGGAACAGAGAAGCAGAAGACCCGGGGGAAAAAG ACAAAAACAAGAACCACCAAACAGAAGGGGGTTAAGGCCGGA G G G A A A A G G GAGGAAGGAGGGCAGAGGGAAAGGAGAAGAAAA GAGGGGAGAAGAGAGATGAGAACGGAAAAGGGGAAGAGAGAA A GAA A A G GAAGAAAACCGGAAGGGGGGAAGAAAGGAGAAATA
 A G G G A G G G GCCAAAGACAGGAAGGGGAAAGGGGAAGGGAAAA AAAGGGGAAGACAATCAGAGGAGGAGGGGAAGGAAGGAAAAG GAAAAGGGGAAACACAAAAAAAAAAAAAACCAGAGGAAAGGA GAAAAGGAAGGGACAAGGAAAAAAAACGGAAAAGGGGCAAAA AAA A A G G G GAAAAAGGGGGAAAAGGAAAGAGGGAAAGAGAAC $A A G C C A A A A A A G G G G A A G A A T G G G G G A G G G G A A G G G A G A G A G$ GAAGAAGAGGAGGGGAACCGGAAAAGAGGCCGGAGGGGAGAA CACATAAAAAGAGAAAATTAAGGAGCCGGAGAAAGACAGGBA GAGACCGGGAAAACAGACCGGAAAAAAAACCGGAGGAAAAGA GAAGGAACCAAGGGGAAGGCCGAACAGACAGGGGAGGGAGAA G G GCCGAAAAGGGAAAAAGGAGACAAAAGAGCAAAAGGAAAG G G G G G G G A A G G GACCGGAAAAGGAAGGACAAAAAGGAGAAAG GAAGGAACAGGAAGGGGAGGGAAGAGGACCCAGAAAGAAAAC CAAAAACGGAAAAGGGGAAGAAGGGCCAAGGAAAACAGAAAG GAACCAAAAAAAAAAAACCCCAGAGACGGAAGAAAAAAGGGA AACAAGGGGGGAGGGGGAAAAGGAAAAGGAAAGGGAAACA GA A G G A A G G A GCGAAGGGGAAAAGGCAAGGGGGAACCGGAAAAG G G G G G G G A G A A G G A A G G A A G G G G A A A A GAGAACCAA A A CAA A $G G G G G A A A G G A G G A A G G A A A A A A G G A A A C A G A A A G A G G A C C G$ GGGCCAAAGGAAACAAACCGGAAACGAAAGGAGAAGGCAAAA AAAGACCAGGAGGAGAGGGGGGGGAAAAAAGAAGGGGGACAA A A A G G A A A A A A G G A G G GAAAACC GAAGGGGGAGAGGGGAAAA G G GAAAACCCCAACCGGAAGGAAGGACGAAATACAGGGAAAA AAACCGGGGAAGAAACGAAGACACCGGACAAAAGGAAAGAGG GAAAAGGAGAAGAACCCGGCCAGGGAAGGAAGGGGAGCCGGG GAGGACCCAAAGGAAGAGACAAAAAGGAACCCCGGAAGAAAA A G GAACC G GAAAAGGGGGGCCGGAAGGAACCGGAGGGGAAAA A A G G G G G G G G G G G G GCA $\mathcal{A} A C A A A A A A A A G G G G A A G G G G G G A A$ A G G G A A GCCCCGGCCGGCCGGAGGGGGAAAGAGGAAAAAAAA GACGGGGAAGGAACCGGAAAAAACCCCGAGGGAGGCCCAAAA AAAAAGGCAAAGAACGGAAAAGGGGGGAAGGGGAAAAACGBA A G G A G G G G G G G G G A A G G GAAACA $A \operatorname{A} G G G G A G G G A G G G G A A A A A$ GAGGAGGAGGGGAAAAAGGGGGGGAGGAAGGAAGGAAAAGAG AAAGGGAAAAAAAAGACAGAAGGGGAGAAAAAAGGGGAAAGG
 A G GA GAGAGAGGAAAGAAAACAGGAAGGAAGCCAGAACACCG GGGCCAGAGGAAGGGCGAGAGGGCAGGAACCGGAAGGGGGGG GCCGGAAAAAAAAGGGGGGAAAACCAAAAGAGAAAGGAGCAA G G G G G A A A A GACCACACAGCCAAAAGAGGAACAAGGAAGTTG G G G A G G G G G A A G G G A A A A A G A C A G G A A A G T TAA A G A A G G G G G G G G G G G G A A G G A A A G C C A A GAG G G A CA G G G G G G G A A A C C G A A GAGGGGAGGACAGAGAAGGAAGGACGGAGCCAAAAGGAAAGC

A A A A A A ACCCCCCCCAAAACACCGGGGAGAAAAAAGAGGGGA A A A G G G G C C G G G G A A C C G G A G G G A A G G A G A GA G G G G G C C G A G $G C \subset A A A A G G A A C C C C G G A A A A A A A A G A G C A A C C C A A G A A G A G$ GAAAGGGAAGGGGAACCGGCCAAGGGGGAAAAAAAGG
$G G C C G G A C G G A A G G G G G G G A A G A G C C G A C C G G G G G G A A A A G$ G G A A A A GACAGAAGGCAGGGGGGGGAAGAGGAGAAAAAAGAG G G GCCGGAAGAGAAAGGAGGGAGGGAAGGAGGAAGCAAAGAG GAAGGAGGAAAGGCCGGAAAAAAAAAGAAGGGAAAAGAAAAG AA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} C A A G A G A A G A C C A A A G A A G G G G C C G G A$ CACAGGAACGGAGATGGGAAGAAAAGAAGGGGGGGACAGACG
 A A G A A A A A A $\mathcal{A} G A G G G A G G G G G G G G G A G G G G G A A G B A G G A A G G$ G GAGGGGAAAGAGGGAGGGAAAGGAGGGAAAGGAAGGGAGAA A A A G G G GAA A A G GAA GAA GAAAAAAAAGGCCGGAAGGGAAAA GACAGAGGAAAAAAAGAAAGAAGAGAAAAACCCAGAGAGAGG GAGAAGGGAAACCGGGGGGGGAACCCCGGGGGGAGGGGACAA
 A G GAAA A A A G A A G A G G GAA $A \operatorname{A} G A A A A G G A A C C G G G G A A G G G G C$ A G GCCAAAAAGGGGGAAGGAGGAGAAACAGGAACAGAGAABAA A GACCGGGGGGAAAAAAAGCAAAAACCAAGGAAAGCAAGGAA G G G A A A A G A A A A A A GAACCAGAAGGAAGGCCGGAACAAAAGA CAGGAGGAAAAAAAAGGGGGAAGAGGGAAAAGGGGGAAACCG A GAA A A G G GAA $A \operatorname{AGGGAA} G G G G C A G G A C A A G G A A A A G G A C G B A$ $G C C G A A A A A G G G G G A A A G A G A G C A G G A G A G A A G A A A A G G G G G$ GCCGGGGGGAACCAAAGGAGAAGGAGGAGAAAGGAAGGGGAC A A A G G GAGGGGCCGGGGGAGAGGGGGGGGAGGGAAGGGAAAG G G G G G A G A GAAAAGGGGGGAAGGGAAAAAAAGAGAAGGAGAA A A A G G G G G G G GAACACGGGGGAAATGGAAGGAGAAGGCCCCG G G G A A G A T TAAAAAATTAGCCAGGGAAGCAAGAAAAAAAAAG GAAGGAGCAGGCCGGGGGGAAGGGGGGACGGAAAACCGACCG GAAAGAAAGGAAAGGGGAAAACACAAGGGAGCAAACCCAGGT $A C C G A A A G G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A$ AAAGGGAGAAAAGGGAAGGGAGGGGGGCCAACGATGGACGAA GAGGAAGGGAAGGGAGGGACCAGAAGGCCGAGAAAAAAGGAA G G GAA A GCCAGGGAGAAGGAGAAAAGGCGCCGGGAGAAAAAA G GAAACCAAGGAGAGGGGGATAAGGGGGGATAGACAACAAGA AAAAACGGACCAAGGGAGAGGAGCCGAAAGGGGGAAGGAAAA G G G G G G GAAGGAAGAGGAAACGAAAGGAGAACCATACAAAGA GAA $A$ A A A A GAA $A \operatorname{A} A A G G A G A A C C A G G G G G A A G G A G C C G A G A C$ A G G A A A GA G GACCAAAAAAGGAAGGAGAGGAAAGACCTXGAG A A GAAAAAAGGGGCCGGAAAGAAGGGAGGGAACAACAAAGAG GAACCGGGGGGAAGGAAGGGCGAGGAAAGGGGAGAAAAGGGG AGGCCCAAGGAAAAAGGGGGGAAAAGGAACCGGAGGGCAAGAA
 GAGAGGAAAAGGGAAAAGGCCAAGGAAGGAAGGAACCAAAAG GAAGGAAAACCCCAAGGGGGGGGGGAAAAAAGGAAGGGAAAA A G G G GAACCGGAAGGGGGGGGAAGGGGAAAAAAGGGAAAAAG GGGGGCCGGAAAAGGAAGGCCAAGGGAAAAGAAGGGAGGACA A G GAA A GAAGGACAAGGAACCAACCGGGGAAAAGGAAAACAA ACCAACCGGGGAAAAAAAAAAAAGGGGAAAAAAGGGGAAAAG GAAGGAAAAAAGGAAAAGGCCGGAAAAGGGGCCAAGGAAGAA A G G G G G G A A G G G G G GCCGGAA G G G G G G GAAAACCGGGGAAAA $\mathcal{A}$ G G G A A G GAAGGAACCGGAAAAGGCCGGAACCGGGGAAAAGGG G G G G G G G G GAA $A \operatorname{A} A A G G G G A A G G A A A A A A G G G G G G A A G G G G G$ GAAGGGGCCAACCGGAAAAAAAAGGTTGGAAAAAAGGGAAAA $A C C C C A A A A G G C C A A G G A A G G A A A A G G A A G G C C A A C C A A A A G$ GAAGGAAGGGGAAAAAGCCAGAGAGAAAAGGGAGGAAAAGAA $A G A G G A A A G G G G G C A G A A A G G A G G G G G A C A G A C G G A G A G G A G$ $G G A G G A G A G G G G A T T A C G A A G G G A G G G G G A A G G A G A G G A A A A$

CAAGGAGAGGGGGAAGAAAAGAGAAAAAGAAACGGAGGACAA CAGAAGGAAAACCGAGGAAGGAAAAGAAACGGGACAGAAAAG GACCAACAAGGAACAAGAAAGACGGGGGGAGCCAAAGAGAGA A A A A A A A G GCCGGGGAGGAAGACAACCAGGGCCAAAGAGAGA A A GAGAAAGGAGAGAGGGGGGGGAGACAGAAAGGGAGAAGGG $G G A C A A A G G G A A C A G A G G G G A G G G G G G G G A A G G A A G G G A A A G$
 AAAGGAAGGAGAAGAAACCGGGAACGGAAAGGAAGGGGGGGG GCCGGAAGGAAGGAAAATTGGGGGAAAAGAGAA G GAAAGGAGG GAACCGAGAGGGGACGGAGGGGAAAGGGGCCAGAGCCAGAAC
 GAGGAAGGAGGAACCTTCCGGGGAAGGCCGGCCAAGAGAAAA GA $A$ A $A$ A A $\mathcal{A} G G G A A A G G G G C G G G G G G T T G G A A A A G G A A C A A A G$
 GAACCAAACAGAGAACCGGGGGGGGAACCAAAAGGAGAGGGG G G G G GCC G A G G G G A A A GAA G GACAACAGGAAGGAA GAGAGAG A G A A A A GCCGGAGGGCCAGGAGACAAAGGGATTAAAAAAAGG A G A A G A A A G G G A G G G G G A G A G G A A GAGACGGGGAA GAAAG G G GAAGGGAGAGAGGGAAAGGCCGGTTAAGGGGAAAACAGAGAA
 AAGGGACGGCCCAGGAAAAAGCCAAAAGGGGAAAAGGAGGGA G GACAAAGGCCGGGGAAGGGAAGAAGGGAGAGAGGAAAAAC G G G G G G G G G A G A A G A A G G A A A A A C A GAGAGGGAGAGCCAA A A C C C CAA $A \operatorname{A} A G G A G A A G C C A G G G G G A A A G A A G A G G C A G A A A A G A$ C GAA A TAAAGGGGAGGGACGGAAAGAGAAAGAAGGGAGAAAA A GAGAGGCCGGAAAAGACCAAGGAACCACAAAGCCAGAGAAG GAAAAGGGGAAAAACGGGGAAAAGAGGAAAAAAGGAAAAAGA A G G G G G G G A G G A A A A A GAGAAAAAGGGAACACAAACAAGCAA $A C C A A G G G A A A A G A A G G G G G G A A A A G A A A A A G G C C C C B A A A A$ A GAGGAGACAAGGAAGGGGCCAGCAGGCACAGGAAGGAAAAG G G G A A A A G G C C A A A A A GAG G C T T G G A A A A A A A A GA G G G G G G G G G G G A G A G G G G G G A T A A G G G G G G G GAAC C G G G G G G G G A A A A GAAAGGAGGGGAGGAAAAAGGCGTTAAAAAAAGGAAGGAGAG GAATTCCAACCAAGGAGGGGGAGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAGAAGAGAAACGAAAAAAAAAAAAGAAG $G G A G A A C C A A A A A C A C A C A G G A A G A A A C C G A G G G G A A G A G A A$ $A C C G A C C G G C C A A A G A G C A A A G A A A G A G G G A G G G G A A G G C A A$ CAAAAAAGGGGAAAAAGAAACGGACAGAGGGGGGGAAGAAAA A G G A G A A A A A A G GCCAA G GAAAAAAAAAGAGGAAGGGAACGBA GCCACGGGGGGGAGGGGAAAAAAGAAAAAAGAGGGGAAGGBA AAAGGGGAGAAAGAAGGGACAAAAAGAGGAAGGCACCCCGAG A G G A A A G A G G A A G G G A G A G A A A A G G A A A A G G C C G G G G G A G G A A A A A A A A A A A GAGAAAAGAGAAAGGAGGGGGGGAAAGGAAAA GAGAGCCAGAGAACCGGAAAAGGCCAAAACCGAGAAGGGAGG GAACGAACCGGAGGGGGGAAACCAAAAAAAACCGGAAGGGGC C $G G G G A G A A G G G G G G A A G G T T G G G G G G A A G G G G G G G G B C A G B$ A A A G G G GCCGGAAGGGGAAGGGGGAGGAGCCGGAGAAAAGGA
 GAAAAAAGGAAGGGGGGGGGCAAAACCAGGGCAGGGGAGAGC CAACCGGGAAGCCGGTTGGAAAAGGGGCAAGGGAGAACAACB G GAGAGAAGCAAGCCGGGAGAGGGGAGAGGGAGCGAACCGBA AA $A G A A G A A C C G G C G G G G G A G G G G C C G A A A A A A A G G G G C A A$ A A ACCGGAAAGAGGAAACACCGAAGAAAGAAGGGGGAAAAAA AAAAAGAAAAGGAGACAGAGGGGAGCCAGAAAGAGAAAAACB
 GAAGGAAAAGGAAGGAGGAGGGGGGGAAAGGGGGGAAGATAA CAAGGGAAAAGAAGGAAAGAAAGCCAAACCAAACCAAGAAGA GCCGAAAAGGGGGGGCAGAGAAGCCGGGAAGGGGGGGGAAAC $A C C A A G A G G C C A G C C G A A G A A A A C C A A A A G G C A C A G G G G G G G$

GAAGGAATTAGAGAACAAAACGGGAGGAAACGGGGGGACBAG $A C \subset A A A A G G G G A A A A A A G G G G G G A A C C G G A G G C A A A A G A A A G$ G G G G A A A G GAA GAGAAAAAAAAACCAAGGAACCGAAACCGGC C G G TACA $A \operatorname{AGGAAAAGGAGGAAGGAAGAGGGGAAGGGG}$
A A A A GAAGAAGAGAAGAAGGAGAACGCGAAGGGGGGAAAGA GAAAAAAGGCCACGAAACAAAAGGGGGGGGAGGGGATAAAAA $A C C G G G G G G A A A C G G G G G A C C G G G G G G G G C G A G A G A A A A C A G$ GAACAAGACGAGGGGGGAAGGAAAAGGAAGGCCGGCCAAGGG GAACCGGAAAAGGAAGGAAGGAACCAATTGGAAGGAAGAAAA AAAGGGAAAAAGGGAAAGGGAAGGGAAAAAAGAAAGGGAGGA ACAGGGGGGAAACAAAAAGAAAAGGAAAAAGGGAGCCABAAG GAAGGAAAAAACCACGGGACAAGGGCAAAAGTAAACCCAABAA A GAGAAGGGAGGGAACCAAAAAAAAAAAAAAAAAAGGCCGGC CAAGGAGGGAAAAGGAAAAAAAAAACAAGGAGGAGCAAAAAA
 GA GAAAAGGGGAAGGAAAACCGGACAGACGACCAAAGAAGAG $A G G G C G A G G A A A A G G A A G A G G G G G A A G C C A A T A A A A G A A A A G$ G G GCCAAGGAAAAGAGGAAAACCGGGGAGGACCAAGAAAAAG A G G G G G G A A A A A A G G G GAGAA $A \operatorname{A} G G G G A A A A G G G G A G A A A A G G$ GAAAACCAATTGACCCCATCCAGGGGGACGAGACCGAAAGGG GAAAGACAAAAGGAAAAGGAGGGAACCAACCAGTTCCGAAAG AAGCCCAAAAACCGGGGAGGAGGAGCCAAGAGGAGCCABAAAA G G G G G A A G GAA $A \operatorname{GA} A A G G G A G A C G G A A G G A A G G C C A A C A G A A$ A A A C C C C A A G G A A G G G GAA $A \operatorname{GGGGAAAAAAAAAGGAAGGAAGGG}$ $G G G A A A A A A G G G G A G G G A G G G G G G A G A G G G G A A G A A A G A A G A$ GAA A GAGGCAGGGAAAAAAGGGGCAAGGGAAAAGGGAAAAAG G G GAA A G G G G GAAAAGGCCGGGGAACCCCGGAAGGAAAAAAA A G G G GCCGGAAGGGGAACCAACCAAGGAAAAAACCAACAAAG G G G G G A A G G G GCC G G G G C C T T G G G G G G G G A A A A G G G G A A A A A AAAGGAACCAACCGGAACCGGGGAAAAAAAAAAGGAAAAAAC
 GAAGGGGAAGGAAGGAAGGGGGGAAGGGGGGGGAAGGGAAAA AAAGGGGAAAAAAGGAACCGGAAAAAAAAAAAACCAAAAAAG G G G G G A A C C A A A A G G A A A A A A A A G G A A A A A A A A T TAAC C G G A A A A A A G G A A A A A A G G G G T T A A A A A A A A G G A A CA G G GAAAA $A$ A A G A A G GACCAAAAAGAAGGACCCGAGAGAGGAAGGGGGGGAG AAGGAAAAAAAAAAGAAAGACGAAAAAAAGGGGAAAA GAA GA GAGGAAAAGACGGGGGGGGAAGAAAAAAAAACCGGAAGGGGG GAAGGGGAGGAGGGAAAGAGGGGAAAAGAGAAGGGGAAGGAG A A GACATAGAGAGGAACGAGGAGAAAGGAGAGAGGGGCCGGG A A GAGAAAAGGGGAAAAGGGGGGAAAAGGCCCGCCAAGACCA C C C G G A A A A A A CAA $A \operatorname{CCAAAGGAAGGCCGGAAAAGGAGAAGGC}$ $C G G A G G G A G T A A G A A G G A G A A A A C C A A C C G G C C G G G G G G G G A$ A G G G G A A A A A A G G A A G G G A G G A G C A G G G G A A G G A A A G G G A G G A A A A A G G A A A A G GA A G GCCAAAAAAGGAAGGAA GAAAA G G GA A G GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGGAAAAAC C G G G G G GAAGGAAGGAAAGAAAGAAAAAAGGAGAACCAAAAG G GAA A A A A A A G GAAAGGAACCGGCCAAGGAGAGCCGGGAACA AA $A G G G A C C G G G G A A A A G G A A A A A G A A G A A G A G G A A A C A A G G$ G G G A A A A A GAACCGGAAGGCAAGGGAGCCGGAACCAAABAAG A GAAAACCCGGAAGGAGACCCGGCACCCAACAAGGAGGGGAA A A GAACC GAG GAA $A \operatorname{A} G A A G G G G G G C C G G C C A G G G G G A C G B G A G$
 A G G G G G G G GCCCCAAAAGGAAGGGGGGCCGGCCGGGGGAAAA AAAGGAAAAGGGGGGGGAAAAGGAAGGCCAAGGAAAAGAAAG GAAGGGGAAGGAAGGGGCCAAGGTTGGGGGGAAAAAAGGGGA AAAAAGGCCAAGGGGAAGGGGGGGGGGAAAAAACCGAAAAAG $G G G A A G G C A A A G G G G A A G G A A A A A A G G A A G G G G A A A A G G G G G$ G G GAA $A \operatorname{GAA} \mathrm{~A}$ GAAAAAAGGCCCCAACCAAGGGGGGGGGAAAG

G G GAAAAGGGGCCGGGGAAGGCCCCGGAAAAAACCAAAAGGA A A A G G A A G G G G G G A A A A G G A A G G A A G GAAAAA $A \operatorname{A} A A A G G G G G G G$ G G GAACCGGAAAAAAAAGGGGAAAAAAGGAAGGCCAAAAGGA A GGAAGGAACCAAGGCCGGGGAAAAAAAAAAAAGGGAAAGAA A G G G G G G G GAA $A \operatorname{GA} A \subset C A A G G G G A A G G A A A A A A A A G A A A G G G$ G G G A A A A $\mathcal{A} G G G G G G G G G A A G G A A G G C C G G A A G G A A G A A A G G G$ G G G G G G G A A G GCC G G G G A A G G G G A A G G G G A A G G G G G G A A C $C A$ A G G A A A A A A G G A A A A A A A A G G G G C C G GAA $A \operatorname{AGGGAAAAGGGGA}$ A A A G G A A A A G G A A A A C C G G T T G G A A G G A A A A G G G G A A G GAA $\mathcal{A}$ G G GAAGGGGGGAAGGAAAAAAAAAAAAAAGGAAGGGGAAGAA AAAGGGGGGAAGGAAGGAAAACCCCAAAAGGAAGGAAGAAAG GAAGGAAGGGGAAAAAAAAAAGGGGGGAAGGGGCCAAGGGGA A G G G G A A C C G G G G G G G G G G A A G G A A G G A A A A A A G G A A A A G G C C G G G G G G A A A A C CAAAA A G G GAAAA A GAA G GAAAAAAAGGCCG GAACCGGGGGGAAGGAAAACCAAGGGGGGCCCCAAAAAAAAA A G GAAAAGGGGAACCAAAAGGCCAAGGAAGGAAAAAAAAGGA AAAAACCAAAAGGAAGGAAGGAAGGCCGGCCAAGGGAAAAAA A A A G G A A G GAA A A A A A A A A G GCCGGGGAAGGGGGGGGAAAAC C G G A A G G G GAA $A \operatorname{GGGGGGAAAAGGAAAACCAAGGGGGACAGGG}$ A A A A A A A G A A A A A GACAAGGAGGGAGACAAGGGGGAAAGAAA GAAAAAAAAGGGGAGAAGACCCAAAGAAAAACCGGAAGAGAG G G GCCAAAAAGGGCCAAGGGACAGGAAAGGAGGAAGGAAAAG A G G A G G G C A A G A G G A G A G G A A G G G A A GAAAA A A A A C CAA A G A GAGAAGAGGGAACAGGCGGAAGGAGAGAAAAGGGGCAAAAAA A A G G G GAAAAAGGAAAAGGGGAAAGTAGAAGAGAGAACACAA A G GAAAAAGGGCAGGCCAGAAGAAAAAAAGGCAAGAGGAGAA GAGGAGAAAAAAGGGAAAGAGAAAACCGGAAGGAGAGGAGGG G G G G A G A A A G G G G A A C A A A G G G G G G A A A A A A GAGGGAAAC C G G G G G G A G A A G G G G C G G A GAA A A A A G G GAGAGGCAGACA GAA G $G C A G A G G A A A G A A A G G A A A G A A G G A A A A C A G A C C A G A A G G G G$ GATAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGGGGGAAAAAAAAGGAAACAAGGGGGAAAGGGGCCAGC CAATAAGAAAGAACAAGAAAACGGAGAAGAGAGAAAACCGGA GAACCCCAGCAGGTAAACCAACCGAGGAGAGAAAGCCAAAAA A G GAAC A A A $A \operatorname{A} G C \subset A A G G G G G G G G A G A G A A G G A A A A G G A A A G G$ GAAGGCAGGAGAAAGGGGGACGAAGGGCAGGGAACGBCAAGAG GAAAAGGAGGAGAGGCAACGGGAAGACGAGACCAAAGGGGGA G G G G G G GAAAACCGGCCAAGGGGGGAAAAAAAAGAAAGAAAA A G GAGCACCAAGAGAAGCCATAGAACACCCAAAAAAAAAAAG A G A A A A A G A A A A A GA G G G A A A G GAAAAGGGGAA GAG GAAAAA A A A A A A A G G G G A A A C G GCCAAAAAACGCCCCGGGGAGAAAAG G GAGGGGAGCGGAGGAAGGAGGGACGGCCGGCCCCACGACAA G G G A A A A G G G G G GA A GAGGAATTACACCAAAGGCCCAAAAGA A G GCCAGCCGGGGGAGGAACCAACAGGGACCGGGAAAGGGGC C G G T T A A G G G G A A G G A A A A G G GA GAAAA A $\mathcal{A} A A G G G G C A B A A A G$ A G G A A A $\operatorname{A} A A G G A A A G G G G G G G A G G G A G G G G G G G G A G G C A A A A$ AAAGGAAAAGCAGGGGGGGACGGGGTTGGCCAGAGGCAGAAA AACAACCAAAAAAAAAGAGGAAAAGAGAGGAAAAAAAGGGGA
 A A A C A G G G G G G A A A GAGCCGGGGAACCGGAAGGGGAAAAGGG G G GAATTAAAAGGAAAACCAAGGAAGGAAGGAAAAGGAAAAA A G GATAGGAAAGGCCCGGGCCAAAAGGGGGGGGGGGGAAAAG
 A A G G G G G G G G G A A G GAAAGGGCAGAAAGAGGCCAAGGCCGGG G G GAA A GAAGAGGGAGGAACCGAGGAGGACCAAACAACAGAA A G G A A A TA $\operatorname{A}$ TTGAAAGAAAAGGAAAAGAAGGCGAAAGAATTA A A A G A A A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G B A$ A A A A A C CAA $A \operatorname{AGGGAAAACCAAGGGGGGGGAAAAAAAGGGGGA}$ $C G A C C A A A A A A G G C C A A G G C A A C G G G G A A A A G G A A C C A G A A G$

AAAAAGGGCAAGGAAAAGGGGGGGAAGAGAAAAGAAGAAAAC CAAGGAGGGAAACGAGGAGAGAACCAGAAAAGGAAAAGCGGA
 A A A G G G GCCAAGGGAGGGGCCCCAACAAAAAAAAAGG
G GAAAAAGGGCCAAGGGGACAGGAGGAACCAACCCCAAGGA A A A G G A A A A A A G GAAAACCAGGGGGAACCCAGAA GAA GAGAG G G G G A T T G A A A A G G A G G A A A A A G G A A G G G G GAAAA GACAAAA A G GAGAGGGGGGGAGGGAGAGAGAAGAAAGAGGAGAAAAGAA
 GAACCAAAAAAAAAACCGAGAAGGAAGGGGGGGAAAGAACAA A G G A A A A G A A G G A A G G G G A G G G G G A G G A A C C A A G G T T G G G G G GAAAAAGGAAAGGAGCCAAAGGCAGGGAAAAGAAAGGGAABA
 G G G G G A A G A C C A G G GA G G G TA A A A A A A A A A C CAAA G G G G G C C G G G GAAAAGGGGAACCCCGGGGAAGGAAAGGAAGGGGGGGGGC ACAAAAAAACCCCAGGGAGGGGGAAGGGGGGGAAAAAAGGGG GCAA C G G GA A GAAAACAAGAAGAGAAGGAGAAAGA GAA GAAA G $A C C G G G G G A C C T T G G A A C A A A G A G G G C A A G G A G G A A G A G A A G$ G G G G G A A C CA GAGAAG GTTGAAAGGAGAAAACCCCAAAAGGG G G GA $A \operatorname{G} G \mathrm{G} A A C A G G G A G G G C A G A G G G G G G A A G G A A G G A G A A A$ G G G G GAAAACCAAGGGGGGGGAAGGGGGGGGAAAAGAAACAA
 $A G G A C A A A A G A G G G A A A G G A A A G G G G G A A G G A G A A A G G A G A G$ GAAGGAAAAGGGGAGAAAGCAGGCCGGAAGGGGGGAAAAAAG G G GAAGGCCGGGGAAGGAAAAAAGAAAGACAAGGAAGGAAAA ATTAAGGAGAACCAAGGGGGGGGGGAAAAAGAAGGAAGAGAA A A GAAAAGGGGCCGAAGAAAAGACCCACCAAAAAGAAA GAAA TA $A \subset A A T G G G G A A C C A G A G G G G A G A G G A A A G G A G A A G C A A A G$ G G G G G A A A A G G A A G GAAGGAAGGAGGGGGAAGGGAAAAACAA A G GAA A G A A G G G G A A A GAGGGAAGGGAAAAGAAAGAAGAAAA A G G G G A A A A A C G G A A G A T T A GA $A$ A A A A A G G G G G G G G A A G G A G G GAAGGGGAAGGGGGGCCAAAGAGGGAGGAAGAAAAAGCCGGG G GACCGGGGGGGGGGGGGGGCGGAAGGAGAAACCCCCAAGGG A G G A A C C CAAAAGAGAGCCAAAAGACCCCAAGGGGGAAAGGA G G G G G A A G G G G A A G G G G C C G G A GAA A G GA G GAA A GA G GA A A T TAAAA $A \operatorname{A} A A A \operatorname{A} A A G A G A A A G G A A A G A G A A A G A G G A A T C A G A A$ G G GAGAAAAGAAACCCAAGAAAGAAGAAACCCCAAACAGGAG A A GAA A G GAAAGGAGGGCAGGCCAACCGAGAAAAAAAAAAGG G G G G G G GCCAAGGAACCGGAAAGGGAAGACCCAA GACGGGGG G G A A A C C A A A A C C G GAGGGGGGAAGGGAAAGAGCGAAAACAG A GAGAGGGAAAAAAAAAGGGACCAGGGAGTTGGGAAAAACBC C CAA GCAGAAAAGAACCAAAAGGAGGAGGAAGGAAGGCAGAA A G G G G G G GAGGACAAGGAAGAGGAAGAGGGAGAAGGAGAAAA
 G G G G G G G A A C C G A A A G A A A GAAGAATTTAAAGGA GAAAAAA $A$ $A A G C C A G G G G A G G G G G G A A G G G G A G G G A G C A A G G A C A C C G G G$ $G C C A A A A G G A A A A A A G G A A G G A A A A A A G G A A G G A A A A G A A A C$ CAAGGAAGGCCAAGGAAGGCCACAGGGAAAGGGGAAGAGAAA A G GAA A A A A A A A A G G G GAAAGGGAGGAGGCCCCAAGAAGCCA G T A A A A A A A G G A A G G G G A A A C G G A A A GAGCCAGAGAAAA G G G GAGAAGGGGAAAGCCCCAGGGGAGCAAACCAACCCGGAACAA A G G G G A A G GAAAAAAAAAAAGGGATTAAAAGGGGGGAGGAA G G GAGACAAAAGGAAAAGGGGAGAAGGACGGAGGGAAGGGAGAA A A A G G G G G GAA G GAAAAGAACAGACGAAAGGGGAGGAGATTA $A C C G G A A G A C C A A G G G G G G C A G G A G A A G G C C A A A G G A G A G A A$ A CAG G A A G A A T A G A GAGAAGGACGGAAAGGAGGAGAAACGAA A G GAA A G G GACGGAAAGAGAGGGCCAAAAGGGAAAGGGAAAG G G G A A G G G GCCGGAAGGAAGAAGGGGGAAGGAACAGAGAAAC $A C C G A G G A A A A G G A A A A G G A A G G A A C C G G A A G A G A A A G A C A G$

A G G G G A A G A A ACCAACCGGCAGAAGAAGGAGAAGGAAGGGGA $A G G G G G G A C A G G A G G G A A A G G A C A G G G G A A C A G G G G G G A A C G$ A G G A G A G G A A G A G A GA $A \operatorname{GA} A G G G A G A G G G G G G A A A G G A G A A C C$ $A C C A G G G G A A G A G A G A A G G G A G A G G G A A G G G G G A A G G G G A G G$ G G G G GAA $A \operatorname{GGGA} G C C G G G A A A G G A G G G G G G C A G A G G G A G A G A$ C G GCC G G G A G G A G C C G G T T A A GAACAAAAGGAGAAAGGAACA
 CAAAGAGACGGAAGGGGAAAAAAGGCCGGAAGAGAAAGAAGA A G G A G G G G A G A A C A A G G G G G G C C A A G C G A A G G G A G G G G G A G G G G GAGGGCCGGAAAGGAGGAGGGAAAAGGCCGGAAGGGAAAG G G GCC G G A A G G G GAAAAGGTTGGAAGGCCAAGGGGGGGAAAC C G G G G G G C C C C A A C C G G A A A A G G G GAACCGGGGGGAGGAAA A CTTCCAACCCCGGGGAACGGAAAGGCCAGAAAAGGGGAGGAA A A A A A A A G GAAACGGAAAGGAGGGAGAGGGAAAACCCGAAAG G G G GCGGAAGAGGACGAGAGGAAGAGAAGAAAACCAGCAAAA AACGGGGGGAGAACCAAAACCGGGGGAAGGAAGGGGGGGGGG GAACCGACAAAGGAAAAGGAAAAGAAGAAAACCAAGGAGCCG GCACCAAAGAGGGAGGGAAGGGAGGAGGGGGCCAACCAGAAA A G G A A A G G A A A G G A A A C G G T T GAAAGAGGGGAGAAAAGAAAA A A G A A G G G G G G G G A A A C A A G G A A G G A A A A G GAAAA A G G G G G G GAACCAAAGAAGGAGAGAGAAAGGAGGAGGAAAAGAGAAAAA AAGCCAGGACAGGAAAAGGGAGGACCCGGAGGGGGAGAAAAG G G G A A G G G A A C G A G A A G A A A G G A A G C CA G G G G G A A G A A C G G C A A A A G G GCCCCAGGGAAAAAAGGGGGGGGAAAGGGGGGAGAA GA $A$ A $A$ AAAA A $A \operatorname{AGGGAGGAAAAGGGGAGAAAAGAAGGCGACAA}$ G GAGGCAAGAGGGGAGGAAAGAAGGGAAGAAAAGGGGACGGG A A A C A CAG G GA GAAAGGGAAAAAGGGGGGGGAAGAAAGGCCG G TATTXCGGGACCAGGGGAGAGGAAGGAAATAGGGGBAGGGG G G A G G G G G G A A A G G G G G G G A C G G A A G A A A GACC GAA A A GA G G AAGAAGGGGGGAGAGAAAAGGGGGAGAGGCCGAGGAAGAAAG GAAAAGGAAAAAACCGGAAAGGAAAAGAAGGGGAGAAAAAAA GAGCCGGGGAAGAGAAGGGGGAAGGGGAGAGACAAAAAGGGA
 A A A A G A A G G G G G G GACCCCGGGGAAAAGGGAAGACCCGGGBAA A G G G A GA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} C \mathrm{CA} A A A G G A A A G A A A G G A G A G A A A G A A G A$ GACAC $C$ A $A G G A C G G A A G G A G G G G G G G A A C C G G C A A A A A G G C C A$ G GAAGGAAGGGAAACGGAAAAGAAGCAAAAAGGAACAAAGAA $C \subset C G G C A A C A A A A A A G G A A G G A A G A A A G G A A A G A G A A G G G G A$ A G G G A C A A G A A G G C C G G A A A A G G G G GA G G A G G A A A G G G G C A A GACGGAGAGGGGACCCCGAAAAGGGAGGAGGAAGAACGAACA GACAGATAAAAAAAAACAGAAGAGAAAGGTAGGGGCCATGGG G G G G G A A A G A G A G A GAAGGCCGAAGCCAGGAAAAATTAAAAA AGGAAGGAAAGAGGAAAAAAAAAGGAAGAGAGAAGAAACCCC CAAGACCAAAAAAAGAAGAGGAAAAAAAAGGAAACAGGAAAA A G G G G A A C A A A GAAAAA A A A GAACCCCCAGGGGGGGGGABAG
 A A C G A A A G G G G A G A A G G G G A A G A G G A A G A A A G G A A G G A A A A $G$ A A A G GAAAAA $A \operatorname{A}$ AAACAAAAAGAAAGCAGAAAGAAGGAGGACA G G GAA $A \operatorname{GAC} \mathrm{~A} A \mathrm{~A} G A A A A A G A A G A A A G G G G G G G G C C A G A C A G G$ AA G GAGAGACAAGAAAAAAGAAAGGAAGAGGAAACCCGGGGG G GATTGAAGCGCCAGAGAAAACCGGGGGAAAGGGGGGGAAGG GAGCCAGGGAAAAAAAAGAAGGACGGGGAAAGAAGGAGGGGA A G G G G G G A A G G A G A G A G A C G G A A A G C C G A A A A A G A T T G A C A A $C \subset A A A C A C C A A G G A A G G G A A A A A A A G G G G A G A A G G A G G G G G A$ GCCGAGGAGGGGGGGACAAAGGACAGCGAGAAGAGGAGAGCG G G GAGCCCAGGGAAGGGGAGAACAGAAAAAAAAAAGGGAAAA CA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGAGGAGGGAAGAGGAAAGGGAAAACAAAA A G G G G G G G G C C A A G G G G A A A A G GAA A G G GAA A GAA G G A A G G A $A G G A A A A G G A A A A G G A A G G G G A A G G G G C C G G G G A A A A G A A A A$

A G G G G A A A A A A A A G G G GAAAAGGGGAACCAAAAGGGGGGTTG
 A G G A A G G G GCCAAGGGGAAAATXGGAAGGAAAAAAGGCCGGC CAAAAAAGGAAGGGGGGAACCAAAAAAAAGGCCAAGG
$C \subset G G G G G G A A A A A A C C G G G G G G G G G G A A A A G G A A A A A A A A G$
 A G G A A G G G GAA $A \operatorname{GAAAAATTAAAAGGAAAAAAAAGGAAAAGBA}$ AAAAAAAAAGGAAGGTTAACCGGAAGGAACCCCGGAAGAAAA A G G G G A A C C A A A A C CAA A GAAAAAAGGAAGGGGAAGAAAAAA $A G G C C G G A A A A G G A A G G A A G G G G A A G G G G G G A A G G A A G A A A G$ G G G G G A A A A GCCAACGACAGGAAAGGGAAGGAAAGAAAGAAA G GAGAGGGGGGGGAGCCGAAAGGCCAGGAAGGGGGGAAAAAA AAACCAAGGGGGGAGCCAAAAAAGGCCGGAAAAAAGGAAAAC C G GAAAAGGAAAAAAAACCGGAAAAGGAAAACCGGAAGAAAA AAACCAACCTTGGGGAAAAAAGGAACCAAGGAAGGGGGGGGA A G GAAAAGGAACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAAA A A A A A A A G GAA $A \operatorname{GAAAAAAAGGGGAAAACCGGGGAAGGGAAAC}$ CAAGGAAGGGGAAAAAAAAAAAAGGAAGAAGGACAAGAAAAG $G G A C C G G A A G A G A G A A C C C G G G A A G A A A G A A G A A A G G G A A A C$
 G GAGAGGAGGACCAGGAAGGGAAAGAGAGCAAAGGAGAAGGG

 G G G A A G G G G G G A A C C A A G GCC G GAA A GAGGAAACAGGCAAAA
 G GCGGGGGGGGCAAGAAAACATAAAGGAAGGAGAACAAAGGG A G GAAGACCAAGAGAGGAAACAAAAAAAAGGAGTTAAAAGAA A A A A G G GAA A GCAAAAAGATAGAAGGGAAAGAAAAGGGACAC A GAGAAGGAAGAGAGGAAGCGCAGAAGGGAGAGGAGAAC GAA $G C C A G A G G A A G A G A G G A C G A A A A G G G G G G A A C C A A A A G A A A A$ A A A C C G G G G G A A A G G G G G G A T C C A G G G A A C C C A T A A G A G G G G GAGGGAAAAAGGGAGGGGAGGGGGGGGAACACAGAGGGGGGG GAAGGACAGAGAGAGAGAGCCAAAACCAGGGGGAAAGGAAGA C G G A A G G A A A A A A G A C CAC G GAGGAAGAAAAGAA GAAAA G GA A A A G G A A A A G G A A G G G GAA $A \operatorname{GGAACCAGCAGGGGGGAAAGAGG}$ GAAA A G GAA $A \operatorname{G} \operatorname{A} A A A G A A A A G G G G A A G G C C G G A A A A A G G G G G G$ G G GAGGGGGGAGGACAAAGAGCACAAAAACAAGAGAGAAGGA AAGGAGGCCAAGGGGGGAAAAAACCAAGGAGAAGGGGACCAA GAGAAAAGGAAGAGGGGAAAAAAGGGGAAGGAACCGGAGGGC CACAACCCCCCAAGGAAAAGGAAGGAAAAAAGAAGGGAAGEG GGGCCAAAAGGAAAGGGAACCCCAGGGAACCGGAGGGGAGAA
 GAGAGGAAGACGAAGGGCCGGAGAGCCAGGGGGAAGAAAAAG GAGAGGGAAGAGGGGGGAAGGACAGCCGAGGAGAGAAGAAAA A A G G G A G A GAAA A A GAGAAAAGAAAGAGGAAGGAA GAGAAAG A A A A A G A G A A A A A G G G G GAGGAGAAAACC G GAAA G G G GA G G G G G GAAAGCGGGGGGAAGGGAAGAGACGAGAAGGGGAAAA GA GA G GAACGGAAGAAAACCGGGAAGGAAGGGGAGCCGACCGAAGA GAAAGGGAAAAGGGGGACCGAGGGGAGGGACAACGGAACAAC CAAAAAAAAACAAGAGGGGAGCCACGGCAAGGAGGACAAGAA GAGGAGAAGGGGAGGGGAAAGGGGAAAAAGGAAGGAAGGGGG GACAAAGGGAAGGAAAAAAGGAAAAGGGGGGAGAAAAAAAAA G G A A A A A A A A G G G A A G G CAAGACAGAGCCAAGGAAGAAAGGA A G GAA A A A C G G GAGAGGGGACAAAGGGAGGGGGAAAGAAAAA
 GAAGGAAACAAGGGGAAGGAAGGGAAAGGAGGACAGGGGGGA A CAA $A \subset C G G A G G A G G G A G G A A A G G G G G C C A A A A A G G G A A C X G$ A GAG $\operatorname{A} A A G G C C A A A G A A G A A G G A G G G G G A G G G G A G A A G A A B A$ A GAA A C C A A A A A G G G G G G G G G G A G G G G C CAAAA A A GA G G T T G

G G G GACCAAGGGGGAAGCAGAAGAAGGAAGGAACCAGAAAAA
 G $G G G G G G A A G G G A A G G G G G G G G G G A G G A G A A G A A A A A A A G A G$ $A G C A G G G G A A A G G G G G A G G A G A G G G G G A G C A G G G A G A A A A G G$ GAAAAGAGGAAGGGGGAGGGGGGAAAAAAGCAAGGAAAACAC
 GAACCAACCACGAGAGGGGGGCCCCACGGGGGGCAAAGAGCG A G GAGAACCGGAAAAAAAAAGACACGGAAAAAAAAGAAGCCC
 CAAAAAAAGAAGGACAGCCTAGGCCAAAAGGGGAAAAAAAAG G G GCCAAGGGGGGAAAAGGAAAAGGAAAAGGAAGGAAAAGGG GAAGGAAAAGGGGCCCCAAAAAAAAAAGGAAAAAACCGGGGG G G G G G G G A A A A A A $\mathcal{A} G G G G G G G G G A A A A G G A A A A G G A A A A A A A$ A G G G G A A G GCCAA A G G G GAAGGAAAAGGCCCCAAGGAAGAAAA A G GCCGGGGAAAAGGAAAACCAAGGAAGGAAAAAAGGGGCCAA AAAGGGGCCAACCAACCAAAAAAAAAACCGGAAAACCAAGGC C G G G G A A G G T T A A G G G G G G G G A A G GAAAAAAAAA G GAAC C $\mathcal{A} G G$ GAAAACCCCCCGGGGGGGGGGGGCCAAAACCAAGBAAAAGGG G G G A A A A G G G G A A G G G G G G A A A A A A A A A A C CAAAACC A GAA G GAAGGGGGGGGAAAAGGAAAACCGAGGCAGACCAAGAAAGGG GACCCACAGAAAAGAAAGACCAAAAGAGAGCGGAAGAAGAGG A A GAGAACACCAGAGAGAGAAAGACTAAGAGAGGAGGGGCCG G G G G G A G G A G A A G G G G G G A A G A G G G G G C C G G C A A G G G G G G G G GAAGGGGAAGGGGGGGAGAAGGGAGCCCCAAGGGGAAAAGAA A G GAA A G G GAAAACCAAAAGGAAGGGGGGCAAAGGGGGAAAA GAAGGAAGACCGGGGAAGGCCGGAAAGGAGAAAACGAAAAAG GAATTGGGAAGCCGGAGTAAAGACAGGAAAAGGAAAAGACAG AAGAAAACCGAGACCAGAGGAAAACGAAAGGGAGGAAAGGGG
 A G G G G G G G GAAAA A G A A G GCC G CAAAAGGGAACGAGGAAA G G $C \subset C A A C C A G G G A A A A A A G G C C G G A A G G T T C C G A C C C C A A A G G$ GAACCCCGGAAAGGGCCGGAAAAGGGAGGGAGGAAGGGAGGA G G G A C G G G G A G G G G G G G G G G G G G G A A G C A C C A A A A G G A A G G A A G G G G A A A A C C A A $\mathcal{A} A G G G G G G G A G A G A C C G A G G C C T T G G G A A$ A A C G G GA $\operatorname{G} G A G G G A A A G G A A A C G G A G G G A G A G G C C A G A G G G G$ A GAGAGGAAGGGAGGAGACGGGGAGGGAAAAAACCCCAAAAA $A C C A G C A G G A A G G A A G G G G C C A A A A C A A A G G G G A A G A A A C C G$ GAAGGGGAAGGACGGAAAAAAAAGGCCAAGGGGCCAAGGGGG GAAAGCCAGGGGGGGGGAAAAGGAAGGAAAAGAAAAAAGAAG A G G A A A A A A $\mathcal{A} G A A G G G G G G G G G G G G A G G A G G A A G G G A A A G A A$ A A A A A A A G G G G G G A A G G GAGGAAAAAAAAGGAAGGAAGAAAA A G G G G A C C C G A A C G A C A G G A A G G A GAA A A GA G G G G G G G A G G G GAGGGCCGAAGAGCCGAACACAAACAAACGGACAAGAGAGGG GAAGGAGAAGGAAGGCCGAGGCCGGAGAGGGCCAATTGAAAA C G G G G G G A A C C A G A A G G A G A A G G C C G GC CAAC C C C G G G G C C C
 A G G G G G G G G A A G G A A A G G A A A C C G A A A G G G G G G A A A A G G G G A GAAGGGGCAGAGGAGAGGGGGGGAAAAGGGGAAAAAAAAGGG GAAAAGCAGGGCCCACCAAGGGGTAAAGGAAAAAAGGAAGGG GAAGGAAGGACGGAAAAAGGGGGGGAGAGCCGAGGAGABAAA A G GCACCAGAAAAAGAATAGGAGGAGCGGAAGGGGGAAGCAG G GAAAAAGAGGAAAAAAGGAAGAAAGGGGAGTTCGGGAACAA A GAAGCCAAAAAAACGAAAGGAAGAAAAAGGACAGAAACA GA $C G A G A C A A A A A G G G G A A G A G G A A A C A G A A A C G G A A G G G A C G T$ TAGAGAAAGCAGGAAACGGAGGGGGAAAAGGAAAAGGAAGAA A G G G G G G G GAAAAAAAAATAAAAAAGGCCAGGGAGGACAA GA ACCAAAAAGTTAAAAAGAAGGAAAAAAGGAAGACCGGAGGGG A G A G G G G A A G A A A G G G A A A A GA A A A G GAGGGAGGGGGAAAA C $A G G G G C \subset A A A A G G A A A A G G G G G G A A G G T T G G G G G G G A A G A G G$

G G G GACCCCAGACAGGAAGGAAGGAGAGGAGAGCCGGAGAAA GAAAAGGAACAAGCCGAAAAAGGAGAGAAACGGGAGACAAAG $A G A G G A A G G A A G A A G G G A A A A A G A G G G G G A A A A G G A G G A A A G$ GAAAAGGGGGGGGGGGGCCGGAGGGGGAAGGAAGGGA
G G GAC $C$ CC $C$ G $G A A G G G A G G G G A G G G G G A G A G A A A A G G A A A A G$ GAAAGCCAGGGGGGGACGGGACAAGGGAGCCGGAAAAAAGAA GAAAACAGATTGAGAGAGAGGGGGGGGGAAGCCAAAAAAABA AAACCGAAAAAAAAGCCAATTGGAACCAAGGGGAAGGGGGGG GAAA A A A G GAGAAAGACCAGAAAGAAAGGGGGGGGAAAAAAA A G G G G G GAGACGAAAAGAGGGAGAAAGGGAAGGAGGGGAACA A A G GCAAGGGGAGACGGAAGACCGAAAAGAGGAGGAAGAGAG GAGGGGGACGAAACCGAGAAACCAAAAAACAACGGAAAGAAA
 $G C \subset A A G G A A G G G G G A G A A A G G G A G G G A G G G G A A A G G G A C G A A$ AAGGAGAGGCACCGACCGGAAAAGGGGGGGAAAGAGAAGGGA A A A A GAAAGGCGGGACCAAAGCAGGGGCCGAAAGGGAAAAAA GAA A A A A A G G A A A $\mathcal{A} G G G G A G G G G G G A G G A A A G G A A G A A A A A G$ G G G T A G G A G G A A G A A G G G G A A G G G G G G G A C $\mathcal{A} A A \operatorname{A} G G G G G G G G$ GAAGGGGGGGGGGGGAAGGGGGGAAAAAAAAGGAAAAAAAAG $G C C A A G G A A G G A A G G G G A A A A A A G G G G G G G G A A G G G G G G G G G$ GAAGGAAAAAAGGAAAAGGAAGGCCAACAAAAAGGAAAAGGG G G GAA A GAAAACCGGAAGGCCAAGGGGAAAAGGAAAAGAAAA $A G G G G G G C C C C G G A A G G A A G G G G A A G G C C G G A A A A G G G G C C A$
 G G G T TAA $A \operatorname{GAAAAAAAGGCCGGAAAAGGAAAAAAAAGGGGGGA}$ AAAGGAAGGAAAAAAGAGAAAGAGGAACCGAGGGAACCAAGC CAC $\operatorname{C} G A A A A A A A G G A A G G G G G G G G A G G G A G A G G G G G G G G A A G G$ A G GAACCAGAGGAGGGAGGAAGAGGGAGGGACCGGGGAAGAA A A GAGAGGAGGGAAAGAAAGGAGAAGGAGAAAGACGAAAAAG A G GAAAACCGGGCAAAAAGGAAGGAGGAAGGAAAGAGAGGAA GAGGAGGAGAGGGAAGAAAGGAGGGCCAGGGAAAAAAAACAA A GAAAGGACACGGAAAGTTAACCGGCAAGGGGGAAAAAGCAA AAGCCGGAAGAAGAGACCAAGGAAGGGAGAAAAGGAAAAA GA AAGGAGGCCCAGAGGAGAGAAGGGGGGGACCGGGGAAAAAAG G G G A A A A A A G G G GAGGAGGGGACGAGAAAAAAAAGACAAACT TGGGGAACCCCAAGGAGAGAAGGAAGGAGAAGAGGGGAGCAC CAAGGAAGGAAAGAAGGGGAAAAGGAAGAACAAAAAAAAAAG GCAACGGAAAGAGGGAGAAGGAAAAGAAGGAGGAAGGGAAAA A G GAGCACAGGGGAAAAAACCCGACAGAAAGACAAGGCAAGG A A A A C G G G A A A G A A G G G G G G G G G A A G G A A A A G G A A G G A A G G A AAAAAGGGAACCCAGCCGGTTAAGGGAGAGGCCAAAAAAGCA A GAG G C A A A G G G C G G A G A A A G G A A G A G A A G A G A A G A G A G G G G GAAAAGGAACCAAACGGACGAGGGAAGGAGGGGAAGGATAGC
 GAGCAGAGGGCCAGGAAAAACGGGGGGGGAAGAGAAGGAAAG GCAGGAAAAAAAGACAAAAAGGGAGGAAAAACCAAAAAAAGC CAAA GAAAAACAAAAAGAGAAAAACCCAAAGGGGGAAAGABA G G G G GCCGGAAGGGGCAGAGGAAAAAAAAAACCGGGGAAGAC AAAGGAAAAAAAGAGAACAGGGGGGCCGAAGGAGAAAGAACG GCCGGGGGGCCAGAAGGGACCGACAGGAAGAACACAAAGGAA A A A A A A A G A GACGAAAAAAGGAACCGGGGAGGAGAGGA GAAA A G G G G G GAAAACCGCAAGGGACAAAAAGAAAAAGGACA GGGG GAAGGGGAAAAAGCCAAGGGGTAACGGACAAAACAGAAGAAA GAAAGGAAGAAGGGGGGCGAAAAAACAATGCGGAAACAAGGA AAGCCAAAAAAGGAAGGAAAAAAAGCCGGGGAAAAGGACGAA A G GCC CA GACAAGGGAAAACAGAGAGGGGAAGGAATTGGGAA $A C C A A A T G G A A A A G G A A G G A G A A G A G G A G A A G G C A A G A A A A G$ GAAGGAAGGAAAACCGGGGAAAAGGGAAAAGAAGGGGAAGAC CAAAAAAGGAAGGGGGAGAGGAAAAGGAACCAAGGGGCAAAA

AAAAAGGAAGGGGAACCAACAGACCCCAGGAGGAAAAGGAAA G GAA A A G G GAA $A \operatorname{AGGGGGGGGAAACACCAAGGAAGGAAAAACC}$ CAAAAAAAAAAGGGGGAGACCGGGAAAAAGGAAGBAACAACA A GAGAGAAGAAGGAGAAGGAAACAAAGCCGGAAGGACAAGGA GAACGCCAACCCCCCGGCCAGACGGCGGGAGAACCCCAAGAA ACCAAAAGGAACCGGGGAACAGAGAGGAGGGAGAGGACAAAA A AACCAGAAAAAAAAAAAAAAAAGGGGGGCCGGGGACCCCCB A A GAGGATAGGGGAGAGAAAAGGAGCAGGTTCCGGGGCCCGG $A G G G G A G G G G G A A G A A A G G A G A A A G G A A A A A G G A A G G G A A G G$ GAAAAGGGGGAGGGGCAAAAGGGAAAAGAGAAAGGGGGGGGG G G GAAAAAAGGAACCGAGGAAGGGGGGCCAAAACCGGAAAAA G G A GAAAGAAAAAAAGAGAAGAACCCCAAGGAAAAGAAAAAA A G G A A A G G A A G G G A A A A G G G A GAACCCGCGGCCGGCCAGGAG GAAGGAGAAGAGAGAAAGGAGAGGAGGAAAGGGGGGGAAAAA A G G G G GAGGGGCAACCAGGGAGACCAGGAGGGAAGGAAAGGG GAGAGGGCCTTGGAAAGCAAGAAGAAAAAAACCGGGGGAAAG GAAAAAGGGAAAAAAAAAAGGAAAAAACCAAAAAAAA GAAAC CAAGGAAAAAAGGAAGGAAAACCAAAAAAAAGGAAAAAAAAC $C \subset C G G G G G G G G G G G G G G A A A A A A A A G G C C C C G G G G C C G A A A A$ AAACCAACCGGGGGGAAAAGGAAGGAAAAAAAACCAAAAAAG G G GAAGGGGAACCGGAAGGAAAAGGGGGGGGCCAAAAAAAAG GAA $A \operatorname{GAAA} A \operatorname{A} \operatorname{A} A A A A G G A A G G G G C C A A A A G G G G G G C C G G G G G$ G G G G G A A T T G G G G G G G G A A C C A A G G A A G G G GAAAAAA A G GAA $A$ G G GCCAAAAGGCCGGGGAAGGAAGGAAAAGGAAAACCAAA GA GAAACGGAGAGGAAAGGAAGAAAAAAAAACACAAGAAAAA GA AAAAGAAAGACAAGACCAGAATAGGCCAGAAAGACAAAGAAA A GCGGCCAGAAGGAAAGGGGGGGAAAAGGAGAGCCAAGGAGC C GAAAACAAGAAACCAAGGGGAAAGCAAGGAAGCCCCAAGAG G G G G A G G A A G G G G A A G G A A C C G G A A G G T T A A G GCC G G G A A G C CAAGAAAGGAAAAGGAAGGGGAAGGGGCCAAAGCAGAAACCC GAACCGGGAACGGTTTTGGTTCCGGAAAGAACCCAAAGAAAA AGGCCGAAAGGAAAAGGCCGAAAGAAGAAACCAAAGGAAGGA GAGGGAAGGAACAGGGGGGGAAGAGGGAAACGGGGAGCAAAG GAAAAGGCCAACCGGGAAACAGGGGGCCAAAGGAACCGGGGG
 G G G GAAAAAAGAGGACACCACGGGAAACCGAACACGAAABGAA G G G G GCCGGGGGGCAGGAAACACGGAGGGACGGAAGACCAGA A A A G G A A A GAGGGGAGGCAGGGAGGCAGGGGAAAACCGGGAA GACAGCCAAAAACAGGAGAGGAAGGGGAGCCAGGAAGCAAAG G G G G A A A A A G G A A A A A A A A A A A GAGAA G GAACAAA G GAA G G G GAGGGATGGAGCAGGGGAAAAGGGGGGCCAGCCAAAAGAAGG A C A A A A A A ATTGGACAGACGGGAGAGAAAAGAGAAGGGGCCG GAAAAGGGAGGCAAAAACCGGAAGGAAAAGGGGGGAGAGAGA G G G G G G A A G G G A A G G A G G A A GAA $A \operatorname{AAGGGAAAGGAGGGABAAA}$ A A G G A GCAACCAAAGAAGGAAAGGGAAGGGAGGAGAGGAGGA GATGAAGAAGGAAGGAAAAGGAGAAGACAGGGGAACCGAAGA GAAAAAACCCCAGACGGGGGAGAGGGGAGGGAACCAGAAAAB G G A A A A G G G G G G G A A G G A G A G G G A G A G G G A G G G A A C C G G G A G G G GAAAAAAGGGGAACCGGCCGGAAGGAAGGAAGAAAGGGGG G GAGAAGGAGAGGGGAGAAAAACGGAAGGGAGGAGGAAAAGAG G G GA G A A A A GAA $A \operatorname{GAAAAAAAAAAGAAGGGAGAAAAAAGAGGG}$ GAGAGCCGAGAGGGGAAAAAAAAGGGGAAACGGGAAGCACAG G A G G A G A A A G A A C G G A A G G G G A G G G C C G A A A A C G G A A A A A A A A G G G GAGGAAGGAAAGGAGGGAAAAGGAAGGGGGAAAAAGGC C T T G G A A A A A GAAA A G GAAAGGGAAAGGGAGAGGGAAAAAAG G G GAAGGCCGCGACCAACGCCAGAGAGCAGGAAGGAGCAABA A A A G A GA $A$ A A A $A G A G A A A C G G G G A G G G G G G G A A A G A A G A A A A$ GAAGACCAAGGCCAAAAGGAAAACACAAGGGAACA GAAAAGGG A G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGAAACGGGGG

A A A G G G GAAGAGAGGAAGGAAGGAAGGACGGAGAAGACAAAG G G G G A C C A A G G G G G GCCAGGAACGAAGGAGGAA G G G A A G G G G A A A A A A A A G A A G G G G G GAGGGGAGGGGGAAAGGGAAAAAAAAC CAGGGGAAAAAGGGGAAGGAAAAGGAACCCCACGAAG
$A G C C G G A A A A A A G G A A A A C A G A G A G G C A A G A G G A G G G A C A C$ GAAAGCAGGCCGGAGAGGGAAAAGGAAAAGACCGGAGCAGGG AA $A \subset A G G C C G G A G A G G G G G G G G G A A A A C C G A A A G G A A A A C A G$ GAGGGGACCAGGGAAAACCAAAAGAAGAAACGGGAAAGGCCA TCCAAAAAAGGGGGGGGCCAAGAAGAGGGCGGGCAAAGAAAC $C G G C A G G A G G A C C A A A G A A A G G A A G C C G G A A A A G A A C G G A G A$ GAATAGAGAAAGGGGGGCCAAGGGAGGGAAAGGGGGAAAGGG GAGAGGAAACAAAGGCCCCCCGGGAAGACGGGAAAAGAGGBA GAAAAAAAGGGGGTAGAAGAAACGAAAGAGACAAGGGGAAAG GACAAAAAATTGGACAGCCGGGAGGAAAAAAGGCGAGAAACB A GAGGGGACAGAGGGAGAAGGCAAGGAGAGAGGGAGGGACCA A A A A A G GAGGGAAGGCACAGGAAAAGAGAGGGGAAAACAAGA GAGAAACCCGACCGAAAAAGAGGCCAAGGGGGGCCAGAAAAA GAGGAAAAGGACCGGGGAAGAAAGGGGAAGGGGAACAAGAAA A G GAAAAAATTACAGGGGGAAGGGAAGGAAGGAAGAGCAAAAA G GACAAGGGGGGAGGAAGGCCAAAACAAAAGAGAAGCGAGGA GAACCGGGGAAAGGGGGGAAGAGAGAAAAGAGAACAAGAGGA A A A A G GAGAAAGAGGGGGGCCGAGGAAGGCCCAAGAAAGGAG C GAGGAGAGAGCAAAGAGGAGGAAAAGCCGAAGAAAAGAACA CAAGACAGAAGGAGGCCCAAGACGGAGAAAAAAAAGGCCGGA A G G A A C C C C A A A A G GA G G GAAAA A G G GAA G G TAA A A A A G G A G G G G G G G GAAAAAAGGAAAGCCCCGGAAGGGGGGAGAAGAAAA C TA A A A A GAGGCAGGAAAAGGGGGAGAGGGGAGGAGAAAAAA
 G G GACGAGGAGAACACAGAGGAAGAAGAAGGGGAGAGAGCCG G G GAAAGAAGAGAAAAGGAGAAGGAAGGAAAACAAAAA GAAAA
 AA $A$ A A GGGAGACCCAAGAAGGCAAGGAGAGACAAAAAAAGGG GAAGGAACCGGCCGGGGGGAAACGGAAAAGAGGCCGGCCCCG AA $A \subset A G G G G A A G G G G A A A A A A G G A G A C C C G A C A G G G G G A T A C$ CAACCGGCCAGAGGGAGAAGAGGCCGAAGAAAGACGGCGGGC C C C G G G G C C G A G G A G G G G G G G C C G G A A G G G G G A A G A G A A A A G G GA A G G GA GAGAGACAAGGAGAGGGGGGGAAGGGGACGGTTA AAAGGAAAACAAGGGCCGGAGCCGGGGGGAAAGAAAGCAAAG G G G GAA A A CAGGGGGAAGGGGAAAACCCCAGAAAAGGCAAAG $G C \subset A A C C G G A A A A A A A G G G G G A G A G G A A G G G A G G G G G G A A A A$ C G GAGAAAAGGGGACAAAGAACCCCAAGGAAAGGAAGGGGGC $A C C G G A A G G G G G G G A A A G G A G A A A G G G G A A A G G C C A G G A A G G$ $G C C G G G G A A A G A G A G A G A C A G G A G A G G A G A C G G A G G G G A A G G$ A GAGGAAAAAGAAAGGAGGAGAAGGGGAAGGAGAAGAAAAAA AAGGAGGCCCCCCGGAGAAGAGGGGGAAGAGAAAGGGGAAAG G G A A A G G A A A A A A G GAAA $A \operatorname{AGGCCGGGAAGGGAGAAGGAAAAG}$ G G G G G A A C C A A GA GAGAT T G GAGAAAAAAGGGGAGA GAAAAA G G G GAAAAGAAGGGAGGAAAAGGGGAGAAAGAAGGCAAAAAC CAA $A \operatorname{GAA} C \subset A A G G G G A G A G G G G C A G A G A G G G A G G G G G A G G A A$ $A G G G G G G A A A A C C G G A G A A A A G G G A G G A A G A G G G G C A G A G G G$ A A A A G G A G G A A G G G G G G A A G G A A G G G G A A G G A A A G G A G G G G C C C C G GAAA $A \operatorname{AGGA} G A C G A C C G G A A G G G A G A T T G G G G G A A G G G A$ A GAGGAAGACCGGAGACGGGGAAAAAACCAACAGGGGAAGGC AAAGAAGACAGGGAAAAGGAAAAGGGACAAGGAGGAGAAAAA $A C C G G G G C C G G A G C G G G G G A A A A G A C C A G G G A G A G A A G A G G A$ A A A G GAGGAGAACAACCGGAACCGGGGGATTGAGAAAAAGGG A GAGGACAGCCGAGGAACACCAGGGGGAAGGGAAAGGAAAAG GCCAAGACCAAGGGGGGGAAAAAAAAGGAAAGAGAAGGCACC $C G G A C C A G G C C G G G G A A G G A G G G A G C C A C C C G G A A G G G A A A G$

G G G G G G GAAAGCAAAGGGGAGCCGAGGAAAACCAGGACAAGA G G G G A G G G G G G A G G G C C G G G G G G A A C C A A A A C C G GA G G G C C G
 G GCGAAAAAGAGGAAAACCCCAGGGAGGACCGAAAAGAAGGG G G G GAA A A A G GAAGGCCAAAAGGGGAAGAAAAA GGCAAAGAA
 GAA A A A A A GCAAA GAAAGAAAGGCCAGAGGGGAGGAAGGGGG GAAGGAATAGGGAGAGGGGAAGGAAGAGAGGAAGGGAACAAA A A G G G G G G G A G A A C C A A G G G G C A G G G A A G A A A G A CAA G G G A G ACAGAGAAAGAGAGGAAAAGGCCGGAAGGAAAAAAGGGGGGG
 A A G G G A A A A G G C A A G A G G G G A G A A G A G A G A G A G A G G A G G G G G GAAAAGGAAGGGGAGAGGGGGACACACGAGGGAGGGAAAACB A G G A G A G G A G A A A A G A A A G A A G G G G G A A A A G A A G A A A A A A G C AAAGGAAGGGGGGCCGGGGGGCAAAAAAACAAAAAAAGAAAC CAAAAGGGAGGAAAAGGAGAGAAGGAAGGGGGGGAAGAAAAC C G G GACAAAGGAGAGAGGAAAAAAAAAAAGGAGAGGACAAAA C G A GAGGAGAGCAAGGGGAAGAGAAAAAGAGAAAAAGAAACB G G GAA A GAGCCGGGGAAAAAGGAGAGGCCGAAAAAGAAAAAA
 AAAGGAAGGCCGGAAAAGGAAAAAAAAAAGGGGACAAGGCAG G G GAAAAGAGGGGACGGAAGGAGAAAAAAAAAGGGAGAACAG A G G GACCGGAAAAAAAAAGAAAGGGAACCGAGAAAAAAGAGG A ACGAAGAGCAGAAACCAGGGACAGGGAAAAAACCAGAAGAA $A C C A G G G A A A A G G A A A A G G A G G A A C G G A G G G G A C C A C G A A G G$
 G GAA A A G G GAGAGAGGAGGGGAGAGGAGGCCCAGGGAAGAAC C GAA A GAGGAAAAGGGGGGCAAAGAGGGGGAAAGAAACAAAG A A A A A A A G GAGATAGGGAAGGAAAAAAAGGGAAAGCAGAGCC CAACAGGAGAGGAAAAAGGAGAGGACAGAGACAGAGACAAGA G A G A G G A A G G G G G G A A A G A A G A A A C G G G G G G A G A A G G A G G A G GAAAAGGGGGGGGAGGGAAAAAAAAAAAAAAAGAAAAAGGGA A A G GAGGCCGGAAAAGGCCGGGGAAAGGGGAAAAAACAGAGG A G A G A G A G A G A G G A A G G A A A G T A A G G G A G G G A G G A G G G G A G A G G A A A A A A A G G A A A A C C GAA $A$ AAGGGAAGGGAACAAAC GAG G G GAGAGAGAAGGGGCCGGGGAAAAAGAAAAGGGGGAGAAAAAA G GACCGGGGGGGGCCGGAAGGGAGGGACAACAGGAACACAGG AACAAAGAAAGAGAAAGATAGAAGGAGAGAAGAGGAAAAGAA A G G A G A G G G C A G G G G G A G A A GCC G G A A G G A A A A A A G G G G G G A A G G A A A A $\mathcal{A} G G G A A G G G G A A A A G G G G G A G G G A A A A A G A A A A G G$ GAACCACCCAACCGGGGGAAAAGGGCCCAATGGGGAAAAAAG G A A A A A A G G G G A A G G C C G G G G A G G G A A G G G G G G G G G G A G G G C CAAAAAGCCAAGGAAGAAGAAGAAAGGAAAAGAAGAAGAGGC AAAGGAAAAAAAAGGAAAAAAAACCCCACCCAAACAAAAGAA GAGGAAAGGCAAGGGGAAGGGACGGAAGAGGTAACAGAAGAC CAAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGGAAA GAGAA A G G G GCCCCAGGGAAGGAAAAAACAGGCCAAAGAGAAA GGGG G G G G GCCCCGGCCAGAAGGAAAAAAAGGAAGGAAAAGACAGG GAAAGGAAGAAAAGGAAAAAAGGGGGGCAGGAAAGAAAAACB A A A A A A A C C G G A G G G G G G G A A A A G G C C G G A A G G G A A GA G A G G AAAGGCCAGGGAGCAAAGGGGGGAAGAGAAGGACCAAAGABAA G GAAAGGGAGGCAGGGAAAGAAAGGAAAGCCCCGAAGCACCB G G G A A A A G G A A G G A A A A G G A G A A G GAA A A $A C A A G G G A G G G G G G$ G GAAAGGAAGGGGAAAAGGGGAAAAGGAGGGGGGGACGGAAG
 G G GAGAGGGAAGAAGGGAAGAAAAAAAAAAAAGGGAAAAGAG GAGAGAAGCCCAGAGGGAGAAGAAGAAAGAAGGAAAGA GAAA A A A G GCA G GAGGGGACCGGGGCCAAAAAGCCCCAACCAAACA AAAAAGGGAAAAAAAAAGGCGGGAAGAAAAAGGAAAAGAGAA

AAAACCCGGCCAAGACAAAAAGAAAAAAAGGGGGGGGTTGGG G GAGGAACAGAGGGGAGGGAACAGGGGGGAAGGAAAAGGCCA G G G G A A A A A G G G GCAAAGGGGAAACAAGAAACCAAAGAGCAC A A A A A A CAGGGGAAGGAGGACAGAGCAGGGGAAAGAA
$C \subset G A A A G G G A G G C C C A A G G G C C A A G G G G A A G G A A G G G G A A G$ GAGACAGCCCAACGGAGACACACGGGAAGGAAAGGAACAAAA A G G A A G G G G A A A A A A G G G G C C G G T T A G A G G A G G G G A G G G C C G G G G A G A A G G GAGAAAGGAGCAAAGAGCGGCAGGGGGAAAGAA A G G G G G G G G A A A G A G A A A A G G G G A A C G G G G G A G G G A A G A A A $G$ GAGAGCCGGAAGGAAGAGGAAGGGGGGCCGGGGAACCGGGGG GAAAACCAAAAGGAAGGGGGGGGGGAAGGGGGGGGAAGGGGG GAAA A $A \operatorname{G} G A A A A G G G G A G A G A G G G A G A G G A A A A A A G A C B A G G G$ A G G G A A A G A A G G G G G G G G A A G A G A A A A G G G GAA A A A A A A G G A A GAAA A A A C G G GA GAGGAAAAAAGGCCAAGAGAACAAGAGAG G G G G GCCA $C$ A $A \operatorname{CA} A G G G G G A A A A A G G G A A A G G A A A A G G G A A A G$ GAAAATTGAAGAAAAAATTAGGGAGGGGGAGGACCGGAGGGG GAAACAGGAGAAGGACCGGAACCGGGGGACAAAGGGAAACCG GCAGGGAGGAAAGGAAGAAAAAGCCGGAAAGCAGAGAGGCCG GGGCCCCGGAAAAAAGAGGAAAGGAGGAGGGGGAAGAAGTTG G GAA ACCAAGGGGGGGGCCAGAAAAAAAAGAATGGGGGAAGA AGGCCGGCGCCGGGGGGGGAAAAGGGGGGAGAGCCAAGAAAA ACCGGAGAGAAACGGGGAGGGAGAGGGAGAAGAAGGGGAAAT TGGGAACAAGACCAAGAGAGGAGAGAAAGACACAGGGGAGAG AACAAGGAAAGAGAAGGCCAGAAGGGGAACGGGCCGAGGCCG GCCCCGGGGGGGAAGAGAAAACCGAGGGAAGAGGBAAGGCCG G GAGAAAGAGGGCAAACCAAGCTACCGAAAAAGAAGCCAAG GAACCAAGAAGGAACAAACGGGGAAAGACCCAAAAGGAAAAA C G G G G A A G G G G G G A C A GACACAAGACCGGAAAGCCAAAAGGG GAAGGGGGGAGAAACAACCAAAGTTGAAGAGAAAAAAGACAA A G GAAAAAGAGCCACAGGGCCAAAAGGAAGGGGGGAACACAA CAACAGGGGGGAGAGGAGGAAAACCGGGGGGAGGGAGAAAGA AAAGAAAAAAAGGAGGGGAGAAAACAAGGGAGAAAAAAAGBA AAAGGAAACGGGAAGAAAGGACGAAAAGGGAGAAAAAAAAAC A A A G A A A C A A T A A G G G G A A G A A A G GAGGAGGGGAAAAAA G G A GAAAAAGGGAAAAAGGGAAGACCTACCAGGCGAACCCGGGGG
 C G GAA $A \operatorname{GGGGGAC} G A A A C A G G A G A A A A A G G G C C C G A A G G A G G$ A GAAAAGCCAAGGAAACAAAACCCCGGGGGGCAAGGGGACAA A G GAGGAGGAAGGAAAAGGCACCGAAAAAACAAAGAGGGAGG A A C G G G G G GCA $\mathcal{A} G G G A A A A G G A A A A G G G A G A A C G A C C A A A G G$ GAGGGAGCCGGGGGGGGCCGGAGAAGAAAGGAAGGAAAACCG GAATTCCGGAAGGGGAAAAGGGGCCGGGGGAGAAGAACAAGG A A G G GACGGAGAGAGGGGAGAGGGGGAGGCCCCAAAGAGGGA A G G G G G G T T C C A A GAAAAAGGAAGAGGCCAAAAAAAAGAAAA A A A G A A A G A G G A A G G G A A A C C G G G GAGAGAGAGGGAAAAGAA A $G G G G G G C A G G A A G G A A A G A G G G G A G G G G A A A A A C A A A A A G G$ GAAAA A A A A $A \operatorname{A} C C G G A G G G C C G G G G A A G G G G G G G G G G A G G A A$ AAAAAGGAGCCAGGGAGAAGAGGAAAAACAAGGGGGAAAAAG
 AGGCACCGGAGCCAGAAAAGAGAGAGAAAAAGACCAAGACAG A A GAA A A A G GAGGAGAGCCGGAAGACAAGAAAAAAAAGAAAG A A A G A A CAGGGTTGGGGAAAGCCGGGGGAGGCAAAAA GAAAG G G G G G G G G G C C A A A A G G A A A A C A A C G GAC G G G G A A G G A A G G A ACAAGAAAGAAAAGGCCAGAGAGACGAAGCAAAACAAGGGGG CA $A \operatorname{G} G A G G G A G G A A A G A G A G A A G A G C C G A A A A G A A C C G G G G A$ $A C C G G G G A A G G A A G A C C G G G G A A G G A A A C A A A A G A C A G G G G G$ GACGGGAAGAAGGGGACAGGGAGAGGGGAAAAAAGAGGAAAG GAGAAAGAAGAAAAGAGAAACCCGGGACCAGGGCCAAGAAAA AAAGGCCAGATGAAAGGAAAAACCCAACCGGGAGGAACCGGA

A G GAGGAGAGGAGACAGGGGGGGGGGAAAAGGGAAAGAAGGG G G G A A A A G G G G A A G GAAA $A \subset C A G G A G G A A A A G G A G G A G A C C B$ A A G G GCA $\operatorname{CA} A \mathrm{~A} G \mathrm{G} A A A A A A G C A G G G G C A G G A A A G G G G A G A G G A$ GAAA A G G G A A A G G G GAAAAAAGGGGAAAAGGAA G GAAGAAAA G GAAAAAGGAAAGGAAGACGCGGGGAAGGCCAAAAAAGGCGG C GAGGAAAAGAGAGGCCGAAGACGGAAGAGAAGACAAAGCCA C G G A A A A A A G G A A G G G G G G GAA A C CAC GAAGGGAGAAAAG G G G G G G G G GAAAGCCGAAAAACAGAAAGGAGAGGGCAAACAAAA A G A A A A G G G A A A A G A G G G A A G T T G A C A G G A G G G G A C C A A G G G GAAGGAAAAGAAACACAGGAGAGACGCACGGAAGAAGGAAGG GAAAAAGGGGGGGGGAGGGAAGGGAAAGAAGGGCAAAAGAAA G G G GA $\operatorname{G} G A A C C A A G C G G A A G G A A C C G G A A A A A A G G G G G G C C G$ ACAGGAAAAAAGGAAAAAAGGAGAGCCGGAAAGAGAGACGAA C G G G A C C A A G A G G G GA G G G G GAGGAAACCGCAACA GAG GCC G G G G G GAAGGGACAAAGGGAGGAAGAAGGGAACC GAA GAGAGG A A GAAAGCCGACCCCGGGGAGAGGGGGAAGGGGAAGGGAAAC CAAA $A$ A $A \operatorname{GA} A A A C C A A G G G A G A A A A A A A G A G A G A G A G G A A G A G$ A GAGAGAAAAACCGGCCCCGGGGAAGGGGGGAAGAGGCAAAC C G GAAAAGAAAAACAAAAAAAAAGAGAAGAAACAAGGAAAAC G G A G G A A G G G G C C G A A G G G G G G G G G A G A G G G G G G G A A G G A A $G$ AGACACCGGCCAGGAGGCAGAAGCCAGATAAAAGAGGAAAAA G GAGGAGCCGAGGAGAAAGAGCAGGAAAAGGGGGGAAAAAAC C GAAAACAGCCAAGGACGGGGAAAGAAAAGGAAACGGGAGAG G G G A G G G A A G G A A C C C C G G G G C C A A G G G G A G G G C C G G G A A G G G G G A A A A A GACGGAAAGACGAGGGGGGAGACAGAGAAAAAAA A A A A A GAGGAAAACCAAAGGGAGGGCCCCGGAAGAAAGGGGA A G G G G G G G A A G G GAAAGGGAAAAAAGAAGGGAGAGACAAAAA A G G A G A GCCAACCAGAAGGAAAGAAAGAGAGAAAA GGGGGGA GAAAAAAAAGGGGGGAACAGGAAGGAGGGAACCGAAAAAAAC C C C A A G G G GAA $A \operatorname{G} G A C G G A A A A G A G A G G A A C C G G A A G G C C G G A$ GCAGACAAAACCAAAAAAAGGGGCCAGGAGGCCCCCACAAGA AAAGAGGAACCAGGAAAGGGAAAAAAGAAGGAACCAAGGAGG A A A A A A A GAGGGGGAAAAAGGCCCCGGAAAAAGCCAAAAAAC C G G A A T T A A A A A A G G G G G G A A G G G A G G A A G G C C A G A GAATAC A A A G G G G G GAA $A \operatorname{GGGGAAACGGAACCAAGAGGGAAAGAAGAGG}$ GAGAGAGGAAAGAGGCCAGAGCCCCGGAAGGAAGAAAAGGGA $A T T A A G G C A G A A G A A G G G G G G A G G G A A A G G A A A C C G G G A G G G$
 A G G G GCC G G A A A A G A C C G G A A G G A G G A A A G GA T A G A G G G G G A AAACCGGGGAAAAGGAGAACCAAGGGGGGCCACCAGGAAGAA A GAAAAACCAAAACCAAAAGGGGGGAAGGACGGAGGGGAACA GAACCCCCCAGGGGAAAAAGGAAGAAAGGGAGGGGAGAAAAG GCGAAGGCCAAACAAAAGGGAGGAAGAGAAAAAAAGACAAGA $C G G A A G G A A G G A G G G C C G G G A A A A A C C G G G A A G G G A G G A A G C$ C G G A A G G A A G G G G G GAAGGGAAAAAGGAAGGAACC GAAAA GA A A A G G G G G GAAAA A G GAAGGCCGGAAGAGGCCAAACAGGAABAA G G A G G G G A G A A C C G G G G G G G G G G G G G G A A A A A A A A T T A A C C G GAA A G A A G GAA $A \operatorname{A} C \subset G G A A G G G G G G G G A A A A G G G A A A G G C C A$ ACAGAGGAGAGGGGGGAGGGGAGCCAACAGACGGGGGACAGA A A G A G A A G G A G A A A GAA A GCCGGGGGGGGCCGAGGAAAAAAG G G GCCAGGAGGCCGGAGAGAAAAAAGGGAAAGAAGGGGAAGA AACAGAAGGAAAACCGGCGCAGGAGAAAAGGGGGGAAGGGGA A A A A A A A $\mathcal{A} G G G G G G G G G A A A A A G G G G G G A A A G G G A A G A A A G A$ AAAGGGGGGGGAGGGGGGAGGAAAAAAGGAGAGGGAGAGACA A A GAAGGGAACCCGGAGCCGGAAGAGGGAGGAAAAAAGGTTA GAAAGAAGGGGCCAAGGGGCCAGGAAAAGAAAAGGAGGAAGA G GAAAGACCCCAGGGGGAGCAAACCCAAAAGGAAGAAAGGGA G GAGGGGAAGAAAACAGAAGAGAACCCGAGAAAACGGCCGGA AAGGAAGAAAAGGAACAGAGGGGGGGGACGAAGAAGAAAGGA

G G GAGGGGACCGGAGACGGGGGGACAGAACCGGGGAAGGGGA GACGGGGGGGAAGACGGGGGGAAAAAAAAGAAAGGAGAAAAA
 G GAAAGAGGGGAGAGGGAAGACAAGGGGGCCAGGGCC
GGCCAAAGGGAAAGCCAAGAAAGGAAGGAAAACCACAACCA A GCAAACAAGGGGGAAAAAACGGGGAGTAAAAAAAAAGGAGC A G G GAGGGGAACCGGGGAACCAAAGAACCGGAAGAAACAGAA GACGAGGAAGGCCAACCCAAGAAAGGAGAGAAAAAGAAAAAA
 AAAAATACAGGGACCAGGAAAGGCCGGAACCAAGGGGGAGGA A G GAGGAAGAAGGAAGGGAAAAAAAAAAAAACCGGAAAAGGG GAAGGCCAAGGAAAAGGGGAAGGAAAAAAGGGGGGAAGAAAA
 A $G G G G G G G G G G A A G G A A G G G G C C G G G G G G A A A A C C A A A A G A A$ AAAAAAAAAAAAAGGGGAACCAAGGAAAAAAAAGGGGCAAAG GAAAAAAGGGGGGGGAAGGGGAAAAAAAAAACCAAAACCGGC
 A G G G G G G G GAA $A \operatorname{GAAACCCCGGGGAAAAGGGGAAGGGGGGCCA}$ A G G G G GAAAAGAGGGAACCGGAGGGGGAGAAGGCCGAAAGAG A A A A A A A G GAA A A G GAA $A \operatorname{A} A A A G G G G A A C C G G G G G A A G A G A G A$ AGGAAGACCAACACAAGAGAGCGTAGAAGGGCAGAAGAAAAA A GAGGAAGGGGGGGAAGAAGGAAGGAAAACCAACCGGGGGAG GACAGGAGAAGGAAAGGGGAAAAAAGGAGCAGAGCAAGGGGA
 GAGAAAAGGACAAAAGGGGAGCCGGGGGGGGGAGGAAAAGAC CACACAGAGGGAGAGAGGAGGCAGGGGGGCCAGAGAGGAAAA
 A G G A A G G G G G G G G G GAAAACCCCGAGGGGGGAAAAAACAAAG G G G G GCCCCAAAAAAGGGGAAGGCCAAAAGGGGAAAAGGGGA ACCGGGGGGAAAACCGGAAAACCGGGGCCAAAAAAGGGGTTG G G G G G A G A C G G G G C C A C G G A A G A G G A CAA $A$ A A $G A G A C C G G G G G$ GAAAAGAAAAGGAGGGAGGAAAAGGAAACGAAAGAAAGAGGG G GAGGAGACGAGAGGAAGGAGAGAGGAAAAGAAACAAGGGAA GAGGAAACCAAGGGAAGAGAAGGAGGACCGAGGGGGGAGAAA GAGAACCCCGGGGAAGCAGGGGGAGAAGAACGAACGGGAAAG
 CAACCGAAAGGAAAACCGGGGCCAAGAAACCGGAAAAACAAA AACAGAGGGAAAGGGAAGGGGAAGGAAAGGAAAGGAGGAGAA A G GAAAAGGAAGGGGAAATAGGGGGGAAAAAAGGAAGAAGAG G G G A A GAGAAGACAAAGACGAAGAACCAACCAGAGAGAAGAG $A C A G G G G G A A A G G G G G G G G A A A A G G A G A A G G A A A A G A G G C C A$
 GAGAGGAGAGGGGGGGAGGGGAAGGAACAGGGAGGAGAAACA A G G A G G G G GAAAAAACCAAAAGGGCCAGGGGACAGACAAGBC C GAGGACGGCCAAAAACGAGGCACAGGAGGAAGGBAAGAGGG GCCTTGGAAGGAAAACAAGAAAGGGACAAGGAAAGCCAAAAG $G G A C C G G G G A A A A A A A A G G G A A A G A A A G G A A A G G G A G C A G G A$ G GACAGGGGAAGGAGCCAGAGGAACGAAGAAGGAAAAAAAAA AAGAACCCCCCGGGAACACAAGGAAAAGGGGGGGGGGAAAAG $A C C A G A G G G A A A A G G C C G G A A C C G G G G A G A A G G C C A G G G G G A$ GAGGGGGGGGGAAGGGGCCAGAAGGGGAAAAGAGAGAGAAAA GAGAAGGGGAAGAACGAGGAAGGAGGAGGGGAGAGCCCAAGAC C C C G G G A A G A G A A C A A GAGAAGAGGAGGAGGAAAACCGAAAA AAAAGAAAAAAAAGGCCGGAAAAGGGGAAGGAAGGAAAAAAA $A G G G G G A A G A A A A G G G A A G A A G G G G A A G A A G G G G G G G G G G G G$ GGGCCAGAAGGAAGAAAAAGGGGGAAGAAAAAGGGAAGAGAA AAAGAGGAGAAGGCCAAAAAAGGAAGGGGAAAAAAAAGGGGG $G G G A A A A A A G G A A A A G G G G A A G G C C G G G G A A G G A A A A G G G G A$ $A C C G G A A A A C C G G G G A A A G G G C A A G A G A G A G G A G A A A A A C A A$

A G G A G GAGGCCGGGAGAGGAGGGAAAGGAAAGGGGGGCAAAA A G G G G A A A A A A A A G GAA $A \operatorname{AGGGAAAAACAAGAGGAGGAGAAAC}$ C G GAGGGAGAACCACAGCCGGAAAGGAAAGGCCAGACGGGGG G G GCGAGCCGGAGGAGGGGAAGGAAAAAGGGGGAAGGAAAAA AA A G G G GAGGGAGAGAAGGAGAGAGGGAAAGGAAGAGAAGAA G G G GACAGACACAAGAAAGAGAAGGAAGGAGACGGGGGAAGG G G GAAAGCCAGGGCAGAGGAAGGACGGGAAGGAAGGAGAAGA $G G A A A G A A A A G A G G G A A A G A G A A A A A A C C A A A A A A A A G A A G G$
 A G GAAA A A A G GAAAGCCGAAGAACCGGGGGGGGAGAAGAGGG G GAAGACGCGGAAAAAGAAAGCCCAGAAAGGAGGAGAGAGAA A GAA A A GAGCAAGGGCCCCGGGACCGGAAAAAAGGAAAGAAG $G G A G A A G A G C C G G A A G G C C G G C C A G A A A A A A G G A A A A A A G G C$ CAAGGAGAAAGACAGAAGAAGCAAAGGGGGGAA GGGGGGGGA A G G A A G GCCGGAAGGGGGGGGGGGGAAGGGGAA G GAACCGGG G G G G G G G G G G G A A A A A A A A G G G G G G C C G G G G G G G G C C C C C C C CAAGGCCAACCAAAAGGCCCCCCAAGGAAGGGGAAAAAAGGG GCCAACCGGCCGGAAGGAAGGCCGGGGGGAAGGCCGGGGGGA ATAGGAAGGGAACGGACAAAAGAGACAGAAGAAAAAAGAAGA GAAAAAAAACCGGGGCCAGGAAAAAAAGGGGAGAGAGGAAGA AAAGGAAGGAAGAAAGGAAGGCCGAGGAGGGAAAAAGGAAGG A A GAGAAGACAAGGGGGGAAGAAGGGGAAGAACGACAACAAA A A C G G G G A A A A G G A A A A G G G G G G A G G G A A A A A A G G C A A A A G G G G G G G T TACAGCAAGGAAAAACCACGAGGGGAGAGAGAACAC CAGAAGAACGACCAAGGGGAAAAAGATACAAAGGAAGCAAAA ACCAAAAAAGGAGGGCCGGAAAAAACAGGGGAGGGGGGGGGA AGACCAGCCGGAAGGGGCCAAGGAAGGCCAAGGAAAAGAAAG G G G G A GCAGCAAGAGGAAAGGACGAGGGAGACAGAAAAAAA G $A G G G G A A A G G G A G A A G G G A A A G G G G G G A A G G C C G B A A G G G G G$ A G G GAGGGAGGAGAGATGGCCAGAGAGAAGAAAGGAGAGCAA $A G G C A G G A A G A G A A G G G G A C A G G C A G G A A G A G A G G A G G G G G A$ $C G G G A G A G G A A G A G G G A A G A G G G G G A A A A A T G G G G G A C A A A A$ A G GAAAAAAAAGGAACCAAGAGAGGAAGGGGCAAACCGGGGA AAAGGGGATCAGAAAGGGGACGACCAAGGCAAAAAGGCAAAA ATTGAGGGGAATTGACCGGCCAAAAAGGGGGAGAGAAAAAAA
 A G GCCGGCGAAGGGGAACCAAGGCCCCAAAAGGGGAAGGGAA $C G G T A G G A A G G G G A A G G G G A A A A A A G G A A A G G G G G A A G G G A A$ A GAAAGGAGAGACAGAAAAAACCGGGAACAGGGAAAAAGAGG G GAAAGGGGAAGGAAGGAAAGAGGAAGGGAAGGAACCAAGAA $G G A A A A G C A A A A A A A A A G G G G A A G G A C A A A A G A A C G A A A A G G$ G G G A A G G G GA G A A C A A G G A G GAGGGAGGGCCAGCCAGAAAA G GAAGGCCCACACCCGGGGGAAGGGGCCAAGACAGGGGGGGGG GAGAGAAGGAGAGGGAAACCCCACAGGGGAGAGGGAACAGAC CAAAAAACCGGCAAAGGGGCCGGAAGGAGGAAAGGAGAAAAG A A G G G GACCAGAAGGAGAAAGAAGGAAGGACAAAAAGACA GAG GAAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} C \mathrm{~A} G A A A A A G A A G A G G A G A A G G C C A A A G G G G G G$ G G G G GCAAAGGGGAAAGAAACCCAAGGAAGAGAAGGAGAABA GAAACGGGACCAACAGGGAACCCGAGAGAGAGGAAAAAAAAG GAAGGAAAAGGAAAAGGGGAAGGAAGGAAGGGGAACACAAAC AAGCCAAAAGGGGAAAGGAGAGGGGAGAAAAAGCCBAAACAA $A C C G G A A C C A A A A G G A A G G A A G G G G G G C C G G G G A A G G G G G G C$ C G G A A A A G G G G G G G G A A A G G A A G G A A G G G A A C C G G C C G G A A G G G G G G A A A A A A G G G G G G G G G GC C G G G GC C G GAA A G G G A A G G G GAAGGAAGGGGCCGGAAAAGGGGAAGGGGAACCGGGGAAGGC C G GCCAAGGGGAAAAGGAAGGGGAAGGGGCCAAAAAGCCCGA GCAGACAAAAGGGGGAGGGAAAGGGAAAGAAGGCCAAGAAAG G A G A A G G G G A A A A G GAAAAAAAACGGCCAGCCAAAA GGCCGGC $C G G A A A A A A A G A G G G A A G G G A G G A G A G G G G G A A A A A A G G G G G$

GAAAAGAGGGAAGCCAAGGAAGGGGAGAGGAGGAGAGGGGAG GAGGGGAAGAAAAAAGACAAAAGGGAAACAGAGGGGAGAAAG GAGGGGAAGAGGGGGGGAGAAGGAAAAAAGGAAAGAAAGAAC CAAGGAGAGGGAGGGAGACGAAAGACCGGCCGGGGGG
AAAGAGGAAACCGGAAAAAAAGGAAGAGCCAACCGGGGGGA AAACCAAGGGGAAGGCCAACAGGGAGAGAAAGGAAAAGGGGG A A G G A G GCCGGAAAGGAAGAGAGAAGGGGAAAAAAAGAAGGG A GAGGAGAGGAAGAGCAAGGAAGAGGGGAAAGGGGAAAAAAA A A G G A G G G GCCCCCCGGGGCAAGGGGAAGACAGGAAGAAGAG G GAGGACAAAGGAAAAAGGGGGGGGAACCGAAGGGGAAAAC G GAAGGAGGAAGACAGGGAAAAAGGGAGAAAAAAGGGGAAAGA ACCGAGAGGAGAAAGAAGGAAAAAAGGGGGAAAGGTTAGAGA GAAGGAAGGGGCACCGGAAAGGGGGAAAAAAAAAAAGAACAA A G G G GCCAACCAAAAAGGGAGGGACGGAACCCCAGAAGAAAG $G C A G G G G G A A G A G G A G G T T A A G G G G G G A A A G A A G A A G G G G G T$ TAGGGAAACGGGGGACGAAGGGGAAAGAGGAGAAGGAGGGGG $G C C A G A A A A A A G G A A G G G G A G A A A A G G G A C C C C A A G G G G G G A$ GAGCCAGGGGGAGAACCGGAAGGGGAAAGGAAGGAAAGAAGA AACGGAAAAAAGGACGGACAACCGGAGGAAAGGAGAAAAAAG GAAGGGGGACCGGAAGGGAAGAAGAGGAGAGAAGAAGGAACB G G GAAAAAAAGGGAGAGAGGGGGGAAAAGGGAAGGGGCATAA A G GAGCAAACAGGCCAAGAGGAGGGAAGAACGGGGAAAGGAA G G GAGCAAGGAAAAAAAAAGGGGAAAACCAAGGGGAGCAGAC

 A A A A A A A A A G GAGAGAGAGAAAGAGGGGAACGGAGGGGACAA AAA A GAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A G A A A G A G G G G G G A A G G G G G A G A A G A A G G$

 G G G G GCCGGACGGAAAAGGGAGAAGAGGACAAAAGGCGAATA
 $C T T A C G G G A A G G G A A G G G G G A A A A A C C G A G A G A C A G G A G A A A$
 GAGGAAGGAAGAAAAAGGGGAGGGAAAGGAGGAGGGAACCCA $A C C C C A G A A G G G G G G A A A A A A C C A A A A G A A G A A A A A A G G G G A$ $G G A A A A A A A G G G G G G G A G G A G A G A A G G C C A G G A G G G G G A G G A$ ACAGGGACCAAAGCAAGAAAGGGAGCACCGAAGGGACCACCB AACAAAAGGAAGACACAGAGGAGGGAAAAAAAGAAAGAAACB $G C C A G G A G G A T G A A A G G A A G G A G C C G C G G A G G A A G A G A A A A A$ G GAA A A G G A G G A G G G A A A A A A A GAA $A \operatorname{AGGGGGGACCAAGGGBA}$ G G G G A A G C C A A A G GAGAAAAAAAAGGGGGACGGGAGGGAAAA $G C C A A A A A G A A C C C C A G A A C A A C A A T T A A G A C A G A A A G G G A G$ G G GAGGGGAGGAGGGGGCAAGAAGGAGCCGACCCCAAGGGGG G G G G G A A A A A A A A G GCCCAGAAGGAGGAAGGGAGAAAAGAAA AGAAAGACCAACCAAGGGAGGGGCAAGAGAAGAGAGAAAGAA A A GAA A G G G G G A A A A G GAA A C G G GA A G GAA A A A C A G G G G G A G $A C C G A G G G A C C G A G G A A A A C C G G A A A A G G A A G G G G G G G A G A A$ GAAAAAAAAGGCCAAAAAAGGAAGGAACCGGGGAAGGGAAGA A G G A A G GAA $A \operatorname{GGG} A A G G G G A G A A G A G G A G A A A G G G A G G A G G G$ GAGGAAAAACAAGGGGGAAGGAAGGAAAAACAGAGAGAAGAA GAAAAAAAAAAAAGGAAGGAAGGAAGGCCGGAAGAAACGGGC AA G GAAGGAAGCCCCACACAAGAGGAAGGGAAAGAGGGAAGA $G C A C A G G A A A G G G G G A A A G A G G G A A A A G G A A G G C C G G A G A A A$ G G GAA A GAAAAAGAAGAAAGGGGGGGGGGGGAGATGAAGACA A G GAC $\mathrm{C} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} C A A A A A A G G G G G A A G A A G A A A A A A G G G A G G G$ A A G G G G G C G G A G G A G G A A G A A G G A G G GA G A A A G A GAC G G C C G GAGAGAGACGAAGCCGGAACAGGAAGGGACAAAGGAGAAGAA $G G G A A G G A G C C G A A A G G G G G G C A G G G G A A A A A C B G C C G C C G G$ $G G G G G G G G G G G G G A A A A G G G G G A G G G A A G A A C G G A A G A G G G A$

A G G G A A A G GAA $A$ A $A \operatorname{GAAA} A G A A T C A C A A A A A G G G G G G G A G A$ GAAA A A A G G A A A A G G G G A G G A G G A G A A G G G G C A A A T T A A G G G GAGGACCAAACAAGGGAAAAAAGACGAAACCAAGGACCCGGA GAAGGGAAGGGGAGGGGCCAGGGAGGGGAGAGAAAACGBACA A GAA $A \operatorname{G} G A G G A A G G G A G A G A G G A A A A A A A A G A C A A G A A A A A G$ G G GAAA A A A G G G G G G T T C C C CAAAGGGAAGGGGACCCCAAC G A A GAGCAGGGAGGACAACAAAGGAGATGGGGGAGGAGAAAAC CAGCCAGAAACAGCACGAGGGGGGGGGGAGGAAGGGGGAAGA G G GCCCCGGGAAAAAGGAGGGAACCCCGGGGGAAAAACAGAG AAAAGCCGGAGGAGAACGACCGACCAGGGGGGCGAAGACGGG GAGAGGGCGGGAAAAGGGGAAGGGGAAGGGGAACCAAAAAAA A G G G G A A C C A A A A G GAAAA A GAAAA A GTTCCGGGGCCCAGBA A G G G G A A A A G G G G G G A A A A A A A A A A A A A A GGCCAA G G A A G G A AAAGGGGGGAAGGAGGGAAGGAAAAAAGGGGAAGGAAAAAAC C C C G G A A G G G G G G G G G G A A G G G G G G A G A A A G G A G A A A G G A A G AAAAAAGAGAACAAGGAGGAGCCACAAGGAGACCAGAGAGAA
 AAACCGAGGAGCAAGGGCCGAGAAGGAAGCAAGCAACAAAGG $G C A A C A A A A A G G G A A G G G G G A A A G G G G G A C C A C G A A G A A A A A$
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 CAGGGGAGACCAGGGCCGGAGACGACCAAGGGGGGGGAGAAA A G GAAAAGAGAAGGGCAGAACGGGGGAGGGGAAAAAGGGGGG A G G G G A A C C G A A A A G A G A A G G A G A GA G A A A A G G G G A A G G A A GAAGAGAGGAGGGGGAAAGGGAAAAGGAGAGGGGAGAAGGGA A G G GAA $A \operatorname{G} G A G G G G G G G A G A G G A A A A A A A G G C C G G G G A A G A A$ A G G A A A A A G G G GAA A A $\mathcal{A} A G A C A G G G A A A A C C A G A A A A G A G G C$ CAAAAGGAAGGAAGGAAAGGGGGAAGAAAAAAAGAGAAGA GA G G G A A G G A A C C G G A G C A G A A G G A A A G GA G G GAAA A A A G G G G G GACAAAAGGAGAGCCGAGACCAGAAGGCAAGAAAAGGGGCCG A A A A GAGGAGAGGAGAACCAGGAGGGAGGGGGGAGAGCAGAA $G C \subset A A A G G G G G G G A A G A G A G G G A A A G G G G G G A A A A A A G G G G C$ C G GACAAAGGGAAAAAAGGGAAACCGACGGGGGGGCAAACAG G GAAGAGAGTTAGAACCAACCACGGAGAAAAAGGGAAGGGGA
 GAGAAAGAGAGAGGAAAATAGAAGAGAAAGATAGGGGGGGGA
 TCCAAGGAGACAAGGCCGGGGAAGGGGGAAGGGAAAAAAGAG A G G A A G G A A G G A A G G C CAA A GAAAAAGGGGGGTTAAAAAAAA GAAGGGGGGGGGAGAAGGGGGGAAAGAAACCGGGGCCGGGGA A GACCAAAAAAGAAAAGAGGAGGGAACAGACAGCACAGAAAG G G G A A A A A A A A G G G G G G G G G G G G G G A A A A A A G G G G G G G GAA $\mathcal{A}$ GAAGGGGAAGGAAAATXCCGGGGGGAACCCCGGGGGAAAAAA $A G G G G G G G G G G G G G G A A A A G G A A C C A A G G A A G G A A G G A A G G C$ CAAGGAAAAGGAAGGGGGGAAGGGGGGGGAAGGGGAAGGGGA A G G A A G G A A G GCCCCGGGGAAGGGGGGAAAAGGAACAAAAAA AGGAAGGCCGGAAGGCCAAAACCAAAAAAAAGGGGCAAAAAA $A G G A A G G G G A A G G G G G G G G A A G G A A G G G G G G A A A A A A C C G G A$ A A A G G A A G G G G GA G A A A GAGGAGAGAAGGAGCAACCC GAA GA G G G G A C A $\mathcal{A} G G G G G A A A A A A G G G G G G G G A A A G C C A G G A G A G G C$ A A G G G G G G G G A G A A T A G G G A A G G G G A T G G C C A A A A A A A A A A A AAAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGGG

G G G A A A A G GAA $A \operatorname{Ag} \operatorname{G} \operatorname{GAA} A A A A G G G G A A A A G G A A G G G G G G G G G$ G G G G G G G G G G G G G G G A A G G G G G G G G A A G G A A G G A A A A G G G G A G GAGGCCAAGGGAAAAAGGAAGGGAGAGGGAAAAA GAAAGCC A G G GAGCACAAAAACGGGGGGCCCAGGAAAGAAGGCG
CAACGGAAAAAAAGGGGGAGACGGGGGAAAACAA GAGGAGC C G G A A A A A C A G A A G GAA $A \operatorname{GAAGGGGGAAGGAAGGAAGGCAAAA}$ AAACCAAGGAAGGAAGGGGAAAAGGAAGGGGGGAAGAAAAAA AAAAAAAGGAAAAAAGGGGGGAAGGAAGGAAAACCAAGACAA GAGAGAGCCAAGGGAGAAACCAAAAAGGGAAGGAAAACAAGG GAAGGAAAAAAGGAAAAGGAACAAGGAGGAAACGAAAAAAGG GAAAAAGAGACGAGGAAGGGGAGGAAACCGGGGGGAAAAGGG GAGGGAAGGAAGGGGAAACGAAAGGAAAAAAAAAAGGAAGEG G G G A A G G G G A A G G G G A A A G A A A G G G G G G A A A GAGGAAAAC C T AGACCAAACAAGGAAGGCCAAAGAGAGAGGGGGGGCAGGGGA GAAGGAGGGCCGGGAAAGGAAAACCGAAGGGGGGGGGCCAGA GAGAGGAGGGGAGAGAAAAGGGGACGAGAAACAAGGAAAGAA $G C C A G A G G G C G A A G G G G A A G G G G A G G A G A G A G G G A G A A G A B A$ A A G G A A G G A A C A G A GAAGGAGGGGAGGACAAAACCACGGGGA AAGAGGGAAAAGGGGGAGAAGAAAAAGGGGAGGAACAAAAAA C G GAAAGGAAGGGGGAACCGAAAGAGGGGAAGAAAACACAAG GAGAGACGGGAAAGGGGAGGACCGGGAAGGGGGGGAAGAAAG GCACCGGCAGGGAACAGGGGGGGAGAGGGAGAAGGGGAGCAA GAAAAGGAAAGGAGGCCGGGGAGGAAAGGAGAAAAAGGGGGG $G G A G G G G A A G G G G A G G G A A G A A A G G A G G A A G G A A A A G G A A G G$ ACATAAGGGGAAAACCCGGAAAACACCAAAAGGGBAAAGGAG A G G A G G A G G G A G G G G A A A A A A A A G GA G T T A T G G G G G G G G C C G A G GAAAGCCAAAAAACCGGAAGGGAGGGACCGAAGAAAGAGAA A G A A A A A C A A GAAACGGGAGAGGGGCCAACCGAAAAGAAAAA AAAGGGAGGCAGGAAACAAACGAAAAAGAGGAGGGAAAAGET TGGAACCGAAGAAAAGAAGCAACGAGGAAAAAAAACCGAGGG A G G A A G G G G G G A A G G G A A A A A A A A A A A A A GAA A A G G G A G A A $G$ AAAGGGGAAAACAGAAGACAAGAAGGAGAAACCGGGAAGGGA GCCGGGGAGAAAATTGGGGCCAAGGGGAAAAAACCGGCAGAA AAGCAAAAAAAAAAGCAAAAAGAAAGGGGAGAGAAAGA GATT A A A A A A G A GCC G G A A G GA G G G C A T T G A A C G G G A G G G G G G G G A A GAGAGGAAGGAACCGGAACCAAGGCCAAAAAAAAGGCAAAG G G GAA $A \operatorname{GAA} A C A A A A G G A A G G A A G G G G A A G G G G A A G A A A G G G$ GAAAAAACCGGAAAAGGGGCCGGGGAAGGGGAAAAAAAAGBA A G G G GCCCCGGAAGGAAGGAACCGGAAAAAAAAGGAAAAAAG G A A A A A A A A A A A A A A A A A A A A A A A A A A G G G G G G G G A A A A G G G GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGAAGAAAA A A A G G A A G GAAAA $A \operatorname{A} A A A G G A A C C G G A A A A C C A A G G G G G A A A A$ A G G G GAAAAGGAAGGGGAAGGAAGGGGAAGGGGGGAAGAAAA A A A A A G G A A G G A A C C G G G G G G G G A A A A A A G G A A G G A A A A G G A A G G G G A A $\mathcal{A} G G G A A A A A G G G A A A A G G G G G G A A C C A A C C G G G G A$ A G G A A C C A A C C G G G GAAAAA $A \operatorname{AGGGGGAA} G G G G G G A A A A G G G G G$ $G C C C C A A A A G G A A A A C C G G A A A A A A A A G G G G G G C C A A G A A A G$ GAA $A \operatorname{GAAA} A G G A A A A G G G G C C C C A A A A G G G G G G G G A A C A A A C$ C G GAAAAGGAAGGAAAAAAAAAAAACCAAGGGGGGAAGAAAC CAAAAGGAAGGGGCCGGCCAAGGAAGGGGGGGGAACAAACCB GAACCGGGGGGGGAAGGAACCAAAAGGCCAAGGAAAAAAGEG G G GAA A GAAGGAAAAGGCCAAAACCAAAACCTTGGGAAAAAA $A C C G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C A A A G$ GCCGGGGGGAAAAGGAACCAAGGAAGGGGAAGGGGAAGGCCG
 G A A A A A A A A A A A ATTAAGGGGAAGGCCAATTAAAAAAAACCA A A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAAGGAACAG G G G G GAATTGGAAAAGGCCCCCCAAAAAAAATTAAAAGAAAT TAAAAAACCAAAAAAAAGGGGAAGGGGGACAAGAGAGCAGBA

GAAAAGGGGGGGAGGAGCCGGGAAGGGAGGAGAAAAGCCGBA A A A A GA $A$ A A G G G GAGACAGGACCAGGAAAAACCAAGGAGAAA A G GAAAAGGGGCCCATAAAAAGAAGGAGAAAAACCAAAGAGA AGGAACAAAGACACACCACCAAGCCGGGAAGGAATAAAAAGG A A A A A G G G GAA A A G G GAGAGGCCCCGGGGAGAAGGACAAAAG G G G G G A C G G C A G G G A A A A A G C A G G G G G A C A C G A G G GAC C G G G G G G A A C C C G G G C C G A G G A G A G G A G A A G G G A G G G G G G G G A G G G GAAAACAAACCAACCGGGGAAGGAAGGTTAAAACAAAGAAGA
 A GGGAGAAGACGGAAAAGGAAGGGAAAGGAAGAAGAGAAAGG $G C C A A G A G G A A A A G G G G A A G G A A G A G G C C C A G G A A A G A A G G G$ G G A A A A A A G G A A GAGGGCCAAAGAGGAGGAAGGGAGGGAGAA $A C A A A A A A G A G A A A A C C C G G G G G C C A A G G G G G G G A G A C A A A G$ G GAGGGGAAGGACGGGGCACCAAACGGGGAAAAAAAGGAAGAC CAA $A \operatorname{GAA} \mathrm{~A}$ G GACCAAAGTTAAAGGGGAAAGGGAGGCCGGGGA GAAAAAAGAGGAACCGGGGCCGGGGGGAAGGAAAAAAGBAAA A G G A A A A A A G G A A A A A A A A A A A A G GAA $A \operatorname{GGGGAAAAAAGGAAA}$ A G G A A C C G G G GCC G G G GCCAAAAGGGGCCAAGGCCAAGGGGA ACCAAGGAAAAGGAAGGAAGGGGAAGGTTCCAAGGAAAACCA A A A A A A A G G G G A A A A A A C CAA G G G GAAAAGGCCGGGGGAAAA AGGGGGGCCAACCGGGGGGGGGGGGGGAAAACCCCAAGAAAG GAA A G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G G G GCCAAGGGGAAGGCCAAAACCAAAAAAGGGGCCAAGGGGG G G GCC G G A A A A C C C C G GAACCAAGGGAAGGGCGAAAAAAA GA A A A G G G G G GCC G G A A C A A G A A A A A GCC G GCCGGGA G G G G G G A A G GAAAAAAGGAAGAGAGGGGAAAAGGCAAGAGGGCAAAAAC A GAAAAAGGAAAAGAAAGAAAAAGACAGAGGGGGGAAAAAAA G G GAA A GCAGAAGAGGGAAGGCCAGAAAGAAAGGGAAAAAAA A G GAA A G G GAACCAGAAGGCCGAGGGGACGGAGGAAGABAAG A G GAGAGGGAAAAGGAAGGCCAAGGAACCGGAAGGCCCCGGG A A C G A G G C A A A G G C C A G C C G G G G A A G G G G C C G A G G A A G G G A A GCCAAGGGGAGGAAAAAAGAGGGGGAAGACCAGAAAAAAGGA A A A G G A A A GCAGAAGGAGGGGCCAAGGGGCCAAGGAAAAGAA A A A C C A A A ACCCCCCAAAAAAAAGGAAGGGGAAGGGGAAAAG G G G A A G G A A A A G G G GAA $A \operatorname{GGGGAAAAAAAAGGAAAAGGAAGGA}$ AAAGGCCGGAACCAAAAAAAAGGAAAAAAGGGGAATTGGGGAA A G GAA $A \operatorname{GAA} \mathrm{~A}$ G G GAAAGGAAAGGAAAAAAGGAGACAAAAGGA $A C C A G G G A A A A G G G A A A A G G G G G G A G G G A G A A A G G A A A A G G A$ GA $A$ A A $A G G G G G A A G G G G A C G G G G A A A A A A G G A A C C G A C A A A A$
 $G G A A G G G A A A G G C A G A A A A G G G G G A C A G A A G A G A A G A G A A C A$
 AAGAAGGAAAAAACCGGAGGGAAAAAAGGAAGGCCAGAGGGA A G GCCAGAGAAAAGACACAGGAGAAAAGGAAAAAAGAAAAAG $G C C A A C C G G A G A A A A A A G G G A A A A G A A G G G G G A A G A A G A A A A$ $A C \subset A A G G G G G G A A G G G G A A A A G G G G C A A A C G A A G G G G A A A A A$ A G G G G C C A A A A A A G G A A A A A A A A A A G GAG GACACAAAGAAG G A G G A G A G C G G G G G G G G G G G G G A G G G A A A A A A A A G GAAC C G A G GAGGAGCAGAGAGGCGGAAAAAAAGAAGGAAGGAAAAGAAAA A A T G A A A C CAC $\mathcal{C} G G G A G G G A A G G A A C C G G G G C C C C C C A G T T G$ GAAGGGAAGAAAAGGAGAGGAGGAACCGAAGAGAGAAAAAAA G G G G G A T C A C G G G G G G G A A A A G G G G C C G G G GA G A A G G G G A A $G$ GAGCCAAGAAAGGGGGGGGGAAGGGGGAGGGGAAAGACAAAG
 A A G G A G A G GAA $A \operatorname{AGGGGGGGGGACCAGAACCGGCAAAAAAGG}$ AAAGGAAGGACCCGGGGGGAACCAAAATTCCGACCGGAAAAA
 AAAACGAAAAGGGAAGACAAAAAGGAAGGAAAAAGGGGGGGA AAAAACCAACCAAAAGGAAGGCCGGAAGAGGCGGGGAAGGAG

A A A A ACCAAACGAAACCAAAAGAACGGAACAACAAAAAGGGG GAACACACAGAAACAGAGAGGAGAAGGAAGGCAAAGGGAAGA C GAGGGGCCCCAGAAAAGGGGGCAAGGGGAAAGGGGGGAAGA G G GCCGGGGAAAAGGGGGGAGGAGGAAGGAGCCAAAA
G GAGAACCAAGGGGAAGGGGCCGAGGAAGGAATAACGGGGG GCAGAAGAGAAAAAGAGAAGAAGCCGGGGGAGAGACCAGCAG G G G G G A A G A G G G G A G G A T T C C G A A G G A A G G A A T G A A A G GAAC CACAGAAGAGGGGAAGGGGGGAAGGGGAAGGAAAAGAAAGGG GCCAAGGGGCCGGGGAAGACAGGGGGAAAACGGAAAGACAGC $C G G A A C A G G C C G A G A C C A A A G A A A A G A G A A A G A C C A A C C G G A$ CAACCACACGGAAGGCCGAGGAGGGGGAAAACCCCAAAAAAA G G GCCAAAAAAAGAGAAGGAGGCGACGGGTTGGGGGAAAAAA G G G G G G G G A G GCC G G G A G A A GAGGAAGCAGGGGAGA GAC G G C
 G G G GAA ACCAGAAAGGGAGGGGGCCCCAAGGAAGGAAGGCCG $G C C A G G G A C A G A A C A G G A A G A G A G G G A G G A C G A A G A A A A A G A$ GCCAGAAGGGGAGGGGGAGAAGGGAGGAACCGGGGAAAAGGG GACGGAAAAGGCAAAGGCAGAAAAGCCGGAAGGAAGAGGGGA A G GAAGGAGAGCCAGGAGGACACGGCCCCGGAGAGACGAACC A G G A A GAACGGGAGAGGCGCAGGCCAAAAAGAAGGGGAAAAA GAAAAAAGGGGCCAAAAGGAGGAGGACAGAGAAAACCAAGAC C C CAACAAAGGAAAAGGACGGAGGGGAGACCAGAAGGGAAAA AAACCGGAAGAAAAGGGAAAACCGGGGAAAGAACAAGGGGAG G GAGGAGCCAAGGGGGGAAAAAGAGAGGGGGGACCGAAAAAA
 GAGAAGGAGGGAGGGAGAAAGAAACGAACGGGGGGAAAAAAG G G G G G A A A G G G G G G GAGGAGAGAAAAGGGAACCA GAA GAGGG A GAAACCTAGAGAGGCCAGAGAAGGAACGGGAAGAGGGGGGA $A G G A A G G G G G G A A A A G G G G A A G G A G A A G G G G G G G G A A A A A G G$ A GAG $A \operatorname{GG} \operatorname{GA} A G G A G G G A A G G G A C C G A C C A A A A A C A G G G A A G A A$ A G A G G A A A G A A A A A A A G A A A A G G T T A A G G A A A G A A A A A G A G A $C C C G G A G A G A A G G G G G G A G C A G G A G G G G G A G A G A A G G G G G G A$ A G GAAACAAGGGAAACGAAAAAAGGCCAAAAGGGGGGAAAAC C G A A GAA $\operatorname{G} G C C G G G A A A A G G A A A G G A A A A A A A A G G G G G A A G A$ T G G G G G G C A G G G A A T A A A C G G G G A A A CAA A A G GAA G G A A A A A GCAA C G G G G G A G G G G G A A G C C C C G G A G C C A A C A C A G A G A G G G GCCGGCCAACCCACCAGAACAGGCCTTGGAGCCAAAGCAAGA G G G GAAAAGAGAGGGAAGGGGCCGGAAGGGGAAGAAAAGAAA GAACAGGAACCGGAAGGAAAGAGGGAGAAAACCAGGGGAGBA G G G GAA $A \operatorname{GGA} G A A G G G A G A A A A A G A A A C X A A A A G G G G A A G B A$ AAAGGAAAAAAGGAAGGGGAAAAAGAGGGGAAAGAAAAAGGG
 AAAGGAAAAGGCCGGGGAAAAGAGGACACGGGAAAAAAAAAG GAAAAAAAAGAGGAAGGAAAAAAGAGGGGGGGGAAAGAAAAA A G G A A C C G A A G G G G G G G A A G G G G G A G A G G G A A A G GAAA A G A C ATATTGGAGCCACCAGGAGACGGGGAAAGACGGGGAAACAAA
 G GGCACCAAACGAGGGAAGAAGGCCAAAAGGAGGGGATAAAG G G GAA A G G GAA A A A G G G GAAACAAGGGCCGGAGCAAAAAGAA GAAGGAAAACCAAAAGGAAGGAGGGAAGGAAAAGGGAACCCG A G GAGCAGAAAAAAAAAGGGAGAGAAAGAAAAACAAGAAGAG G G G A A G G G A G G C G A A GAC C G G A A G GA G GA G G GA G G G G G G G G G G G GCCGAAGAGGAGGAAGGGGGGGGGGAAGGACAGGGAAAGG G G G GAGGGAAACAAATTCCGGAAAAAAGAAACCTTAGGAAAG A G G G G GAGGCCAAAAGACCGGCCGGACGGGGCCGACCAAAAA A A A GAGGAAAGGGAAAAGGGGAAGGAGAATTAGCCAACAAAA $G C C G A A A G A G G G G T T G G A C A G G A A A A A A A A A G G G A T T C A A A G$ GAAGGAAGGGAGGAAGGAAGGCCCCAAAAAAAGAACAAAGGA AAAAAGGAAGGGGAAAAAACCGGCCAGAAAAGGAAGGAAGAG

ATTAAGGAAAAAGCCGAAAAAGGCCAAAGGAGGGGAAGCCCG GATGAAAGAGAGGACGGGGAGGGAGGAGGAGACGGAAGAGGA A A A GAAAGGAAAAAAAAAAAAGGGAAAGAAAGGCCGGGAGAA A GACCAGAAAGAGAGAGAGGGACGAAGTACAGGACAAGAAAA GAAGAAACCAGAAAAAAAAGGGGGGGGAAGGCGAAGGCCCCG A G G GAGGCCCCAAAGAACAAAAAAAGGGGGAAGGAGGAGAAA G G A A A G A G G G A A A G G G A G A A G T T G G C G G A G G A G A G A A G G G G A A GAGGAAGGGGAAGGCCGGAGCCAGCAGGAAGAGAAAGGGGA AAGGAGAACGGCCAAAACCCCAAGGCCACAGCCGAAGAAGGA AGGCCGGAAGGAAAAGGAAGGGAGGAGAGAAGGGGAACAAGG
 A A G G G A A A A A G G G G G C C A A $\mathcal{A} G G G G G A A G G G G G A G G G A A A A G G$ G G A G G G A A A C G A G A G G G G G G G G A A G G G C C G G G A G G A A C A G A G GAGGAGGCCGGAGGGAGGGAGCCAGGGGGCCGAAACCATGAG GAGGACCAAGGAAAAGGGGGGAAAGGAAAAGCAGGAGGAAAA G G GAAA A G GAAAAGGAGATGAGGCCAAGGAAAGAGGGGGCCA GAAGGGAAAGGGGGGAAAGAGAAGGAAAGGACCAGAGAAGAA
 GAAAGGAAGAAAAGGAAAAGGGGAGGGGACBCCGGGGGGGGG
 G G GAGAACGGGGGGGAAGGGGAGAAAGAAGGAAGAAAGGGGG AAGACAAGGAAAAAAGAGAGAGGCCAGAAAAGGGACAGAAAA A G G G G G G A A G G G G C A G A A A A A $\mathcal{A} G G G A A A G G G G A A A C A A A G G A$ A G G G A G G G G A G A G G G G G C A A G A G A A G G G G A A A A G G G G C C G G A A G G A A G G A A A G GAA A CA A A A GAAGGAAGGCCAGCCGAA GA GA
 A G GAATAGAAGACGAGAAGAAGGGAGGAGGAAAAACCTXGAG G A A A A A A ACGGAAAAGAAAGGACAAGGAAGGCAAGGAGCA GA A A A A A G G G A G A A GA $A \operatorname{A} A G G G G A A A A A G C A G G G A G A A A G G G G A$ AAAGGAAGACAGGAAGGGGGGAGAAAGAACCCCGGACAAAAA ACCAAGACCAAAAGGGGCCAGAAACAAGGAAAGABAGAGAGG AATAGGGGGGGGAGGAGAGGGAGAAACAGAAAGGACCAGGGG AACAAGGGAGGCCAAGGGAACGGGAAAGGAAACAAAAAAACG G G G T T A A C C G A G A G G A A G G A A G G G G G G C C A G G A G G A A G G C G C C A A G A G A A T C A G G A G G G G A A A G G A A A A A A G GAA $\mathcal{A} G G G G G G G G$ G G G A A A A G G G G A A G G A A G G C C G G G G C C A A G GC C A A A A C C G G A A G G G G A A G G G GAA $A \operatorname{AGGGAAAAGGGGGGAAAACCAGGAAAGGA}$ A A A A A A A A A $\mathcal{A} G G G G G G G G G G G A A G G G G G G A A G G A A G G G G G G C$ CAACC G $A \operatorname{CGGCA} G G A G G A A A A A G G A G A G G G A G G G G A G G C C G G G$ A G G A G A A G A G G G A G G G A CACC G G G G G G G G A G A G G G A C A G C C A GAAAAGGAAAAAAAGGGAGAGGACCAAAAGGAAAAAGCAGAG GAAACAGAGAGAAGGAGAAAACCGAAAGAAAGGGGCABACAG AAGAAAACAAAAGAACCGGGGACGGGGGGCCAACCGGACGAG G G G A A G G G GA G A A G A G G G G G G A A A A C C C C G GAAAAAAA A A A G G G G G G A A G A G G G G A A G G G G A A A A G G C CA $A$ G A A A A G G G A GAA A
 A A A G G A A G G A A G G A A G GACGGCCAAAAGGGGCCCACCGAAAA AAACCGGCCCCGGAAGGAGAGGGAAAAGGAAGGGAGGGAAAG A G GAAACCCGGGGGAAAAAAAAAGGGGAAAAAGCCAAGGGGG A GAAAGGGGAACACAGGGGGAGAAAAAGGTTAGAAGGGAGAG GAGAAGGGGGGGGAGAAAGAAAGGGGGGGAAAAAGAAAAAAG G G G G G G G G A G GAA GACCCAACAGACGGCCAAGGGAAGGAAC G G A A A A A A G G G G A A A A A G A G G A A A A A G G G C GA G G G A A A C C G G A GA $A$ A $\operatorname{G} A A G G G G G C A G G G C C G G C C A A G G G G G G A G G G A A G G G G G$ GCCGGGAGACCGGAGGGAAAAGGGACCAGAAAAGGAGGAGGG GAAGAAAAAAAGGAGGAAAATAGAAAAAGAAAAAA GAAAGGGG GAAAAAAGGAGGGAACAAAAAGGAAGAAGAGGGAAAAAAGGA A G G G A G G A A A G C A A G G A GAAGGAAAAAGGAGGAAGAAAAA A A A A GAAAAGAACAGGAGAGGGGGGGGGGAAGGCAAACCAAACAAC

CAGCCGGGAGGAACCAAAAGGAAAGGAGGAACCAAACCCAGA GAAAACCGGGGGGAAAAAAGGGAGGGGAAAAAAGAGAAAGGC AAGCCAAAATAAGAAGGGGCCCCAAAAGGAGAAAGGGGACCB GAAACGGACAAGGAGGGGGGGAGAGACACACCCAAGG
AA $A$ A $G G A A A G C \subset A A G G G G A A G G G A A G A A G G A G A G A A G G G G G$ GAA A G G GAGGAAAGAAAGGAAGGGGGGAGACAAACCCAGGAA A A A A G A A G G G G G G A A G A G G G G G G A A C C G G A A G A A A A A A G G A A AAAAAAGAGAAAAAGGGCCGAAGAAAAGGGGAAGGGGAAGAG G GAGAAAGAAAGAGGAAAGACCCGGAGAGGGAAAACCGAGAA GAGAGGGAGAAACGAAAGGGGTAAGAGGGCCGAAAAACACAG A G G G G A G G A A A G G A A G A G G G G G A A G G G G G G A A G G A G G G G G A G
 GAAGACCGGGGGAGGAAAAGGAGGGGGGGAGAAGAAAGAAAC C G GAG GAA G GAAC GAAAGGACAAACAGAAGAGGAA GACABAA GAGAGAGAAGGAGGGGGAAGGGGGGCCGGAAGGAAGGCAAGA A A GAGGAGGGAGAGAGGAACCGGCCGGAAAAAAAAGGAAAAC CAGGAGGGGTTGGCCGGGGGGGGGGAAAGAACCAAGAGAAAG GAAAAAAAAGGGGAAGGGCGGAACCGGGAAAAAGGCCAGACA AAAGACAAAGGAGGAGGAAAAGAGGGGGGAAGGACCAGGGGG G GAGGGAGGGGAAGGAGAGCAGGGGCCGGAAAAAAAAGGGGG GGGCCCAGGGGAAAAAAAAGGAAAAGGGGAAGGGGGGBAAAG A A GACAAAGGAAGACGGAAGAAAAAAAGGACAAAGAACAGAA AAACAGGGGGAGGAAAAGGAAGGTTGGAGAACCGGGGAAAAG $A C A G G G G G G A G G A A G A A G G G G A A G A A A A A A A G G C C G G A A G A A$ GAAGGGAAAAGAAGACCGGCCGGAGAGAGGGAAGGAAAACAA $A C C C C A C G G G G A C A A A C A A G A A G A A A C G G G A G T T G G C A A A C$ C G GCCAAAAAAGGGGAAGGGGGGAGAAGGGAAAAGAAAGGGG
 A ACGAAAAAGGCCAAAGAAAGAGGGAAGGAAAGCCAGCAAAG $G C C A G A G G G A G A G A G A G G A A A A A A G A A A A C C T A G G G A G A A G A$ G G G G G A A A A A G A A A A G GAA A GCCGGCC GAAGAA AA G G G GAAAA
 GACGAAACCGGTTGGAAGGGGAAGCAAGGGGCCCCAACCGGG GAGCGAGGAGAGGAAAGAGAAGCAAAAGAAATXCCGGGGGGA $A C C G G G G A A A G A A G G C A C A G A G G A C A G G G C A A A G A G G G A C A A$ ACCAAAAGAAAGGGGGGAAAGCAGAAAGAAAACAGGGGAAAA A A A G G G G G G G G A A A A G GAA A GAAAAAAACCGGGGA GAGAA GA G G GAGGGGGGGGGAGGGGAACAAAGGAAAAAACCAAAGGACAG GAAAA AAAGAAGGGGAAGAGGAGAAAGGGAGAGAGGGAAAAG G G G A A GA G GCCAAAAGGGGATAGACAAGGGAAACCCCABAAA AAACCAAGGCCAAGGCCCCAGGGCACCGGACAAGGGGCAGAA A A A G A G G G G G G A A G G G G G G G G A G A A A A A G A G C C A A C A A G G G A AAGAACAAAAAAGGGAAGGAAGAGGGGGGAAGGAAGGGAGGA A G G G G G A C A A G A G A G G G G G A A G A G G G G A A A A G G A A G G A A G G G GCCGGCCAAGGAAAACCCCGGGGGGAAGGGGAAGGCCAAGGG G G G G G G G G G G G G G A A G A C A A A G G A G A G G A G G G G G A G G A A G G A AAAGGCCGGAAGGGGAAGAGAAGGGGGAAACGGCAAGAAAAG
 G G G G GCCGGAAGGGGAAGGGGAAGGGAAAAGGGAGAGAAGGG GAAAAGGGGGAAAGGAAGGGGAGCCAAGGGAAAAGAGGAGCB G G G A A A A A G G G A A A GACGGAAACAAGGGGAAGAGGCCGAGAA GAAGGAAGGGGAAAGCAAGCCGGACAAAGGGGGAGACGAAGG A A A G A C A G A A G A G G G A G G G G G A A G GA $\mathcal{A} G G G G G G G G C A G G G G G$ G G G G G A GAAAACCAAGGAAGGGGAAAAGGAAAGAAACGAAGG G G G G G A A G GCC G G G GCCGGCACC GAGAGGCCAAGGGGAAGAA AAAGGAACCAGAACCAGAGTAGAGGACGGGGGAGGGAGAACA A GAGGCCGGGGAACCCAGAGGGAGAAGAAAAAAAAGGGGGGG A GAGACAAAGAGGAAAGGAAGCACAAAAAGGACGAAAAAAAA $A G G A C G A A C A A G G G A A A A A A A A A G A G A A A A G A A C C G G G G A G A$

A GAGGAGGAGGAGCCAGGGGAGGGGAACCCAGGGAACAGAAG GAATTGGGGGGGGGGAAGAAAGGAAGGGGAAGGACCAAAAAA AA $A$ A $G A G A A G A G A A G A A C C G G G G C C A A G G G G A G A A A A T A C A C$ CAAGGAGAGAAGAGGAAGGGGCAAGACGGAAAAGAAGGBAAA A A A A A A A AC GA GAAAAAA GAAAAAAAGGGGGAA GGGGGACAA A A G G G G GCCAGGGAAGGGAACGGGGAGAGACGGGGCCAGAAA A G G G G A A A A G G G G G G A A A G G G G A G G C C A A A C G A G GA G C G A G G GAGACGAAAAAAAGGGAAAGGGAAGAGGGAATTAAAAAAGAA $A G G G G A G G G A A A A A A G A G G A A G G G G G A C C G G A G A A A G G A A G A$ AGGGACAACAAGGGGGGAGAGGGAAAAAAAAAAGGGGAAAAA A A A A A A A A A GGCCCCAAAAAAAAAAAAAAAAGGGGAAAAGGC CAA $A \operatorname{GGG} \operatorname{G} A A A A A A G G G G G G G G G G A A G G A A G G A A A A A A A A A A A$ A G G A A A A C C A G G G G G A A A C A GAGGAGGGGGAA GAC GAGAAA G G G G C C A G A A G G GAC CA $A \operatorname{AGGGGCCGAGGGGCAAAAGGAGAAAC}$ A G G A A G GA $A \operatorname{GA} A G A A G G G G G G C C G G G G G G G G G A G G G A G A G A A$ A GAA A A GAAACGAGGGGGGAAAGAGGAGAAAGGAAAAAAAAA A GA $A$ A A A $\mathcal{A} A G G A A G A A A A G G G G G G G G A A A A G A G G G G G G A A B A$ GAACCAGAAGAAGGGGGAGCCGGAGAAGGAAGGGGAAGAAAA AAAGGAAAAGAGGAAAAGGAGGGCCGGAAAAAGGGAAGAAAA G G G G G A G C A G G A G G A G A A A G G G A G G A A G G G GAAAAAAA $A$ A A G G G GGGAAAGAAGGGGGGCCAAGGAAAGAAGGGGAAAAAAAAAAG A G G G GAA $A$ A $A G G A A A G A C C A G A A A G C C A A G G G G A A A A G A A A A$ A GACAGGAGCAGGCAAGCAAACAGAGGGAGAAGAGAAAAAAG GAACCGGAGAAGAAGAGAGGGAAGGGAAAGGGGGAGAAAGAA ACAGAAAAAAAGAGAGGAACAAGGGCCGGAAGGAAAAAAAGA G G GAA A GAAGGAAAGGAAGAAGGGGAAGGAAAAGAGAGAAAA G GAAAGGAAGGAGAAGGGACAGGCAGAAAAGACAACAAAAAA A GAAGGGCCAAGAAGGAAAGAACAGGAGGCCAGAGAGAAAAC CAAAGAAAAGGAAAGAAAGGAAGGAGGAAAAGAGGAAAAGAG G G G G G GAGGAGAGAAGGAACCGGCCCAAAAAGAGGGAAAAAG GAAGGGGCACCAAGGGAGGAGGGGGCAGAGGGAGAAAAAAAC CAAGGGGAGACAAAACCGGGGAAGGCCAAAAAAGAAAGGGGG G GAGGAAGAGGAAGGCCAAAAGGCAGGGGGGGGAAAGAGAAA A A G A A A A G G G A T T G A G G A A G G A A GAAGAGAAGA GA G GAA A A A GAAGAGGGAGGGACCGGAGCCAAGAAAGGAAAGGGAAGACAA
 G G G G G A G T T A GAAC C G G G G GACCGACACCAGGAACAGGGGGC A G GAGAAAAAGCAGGAGACGAAGGGAAGGAACCAGAGACAGAA GGAAAAACCAAAGAAAAAGGAACGAAACCAACAAAAGCCGAG A G GAA A A A GAAAAAAGGAAAAGGAGGAGGAGGGAAAAAAGAA GAAGGGGGGGGAAGGAAGAGGGGGGGAAGCCAAAAAAACAGG A A A A A G G A A G A A GAAA $A \operatorname{AGGAAAAAGAAAAGGAGGGAGGGAGA}$ A A A A G GAGGGGCCGGGAAGGAAAAAGGGGGGAGCCAAGAAGA $C G G G G C C G G A A G G G G C C A A G G C C A C G G G G G G G G G G G G G A A A A$
 A $G \operatorname{G} A A G G G G G G G G A A G G G G A A G G A A G G C C C C A A A A A A G G G G C$ C C C G G A A A GAGGGGGCCGAAAAAAAAGGGGAAAGAAGAAA GA
 G GAGGGGGGCAACGGAAGGGGGGGGCCAGAAAAGGCCAAGAA GAAGAGGCAACAAGGGGACAAGGAGGAAAAGAAGGGGGGGGC CAA $A \operatorname{GA} A \mathrm{G} G A \mathrm{~A} G A A \mathrm{~A} A \mathrm{G} G \mathrm{G} A A A A A A A G G A A G G A A G A A G G G G G A$ $A C A G G A G A G A G A G A A G G G G G G A A A A G G G G G G G G G G A A C A A A G$ GAAAATAGGAGTAAGGGCAGGGAAAAA GAGGGGAGGGGGGGG GAGAAGGAGAGAAAGAGGGGAGGGGAAGAGGCCCCGGCAAAC $C \subset C A A A A G G A A A C G G A A A A A G C C G G A G A A G A A G A A A G G A A C A$ A A A A A GA GAAA A GCCGAGAAAAGGAAAGGAGAAACAAGAAAA C GAGGAAAAGGGGAGGAGAAAGGCAGGAGAGAGGGAAAAGGAC CAACCCCCCAAGGGGAGAGAAGGCAGCGGAGGGAGAAGAGGA A GAGGAAGGAAGAGAAAGGAAAAAAAAGGGGCCGGGGCCGGG

AAGGGGGGGAAAACCGGAGAGAGGGGAAAAAAAGAGGCAAAG A GAA $A$ AAAACAAAAAGAACACGAGAGAAGGAAAGGAAAAAAG GAAAAGGAAAGAAAGAAAAGGAAGAGAAACAGGCCGGGGGGT TGGAAAAAGGGAAAAAAAAGGGGGAGGGGGGAACAAG
$C \subset G G G G A A G G A A A A A A G G G G G G G G A A A A A A G G G A A A C C A G G$ G GACCCCAAGGCAACAGGACAAAGGGGAAAAAAGGGGGGGGG G G GAA $A \operatorname{GA} A A G G G A A G G A A A A G G A G A A G G A G A A A A G G G A A A T$ TAAAGAAAAAAAAAAGCAAAGAAAAGAAGGAACAGAAAAGAG G GACAGAAGGGGGGGAAAAAAGAAAGGCCAAAACCGAGAACC AAAAAGGAAAGGGAGGAAAGAAAGGGGGGGAACGAGAAGACAA A A A GAA A A A A A G G G G GAGAGGGGAGGAGGAAGGGAGGCAGAA A A TAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC C G G G G A A G G G GAGAAAAAGCAGGCCGGAGGGAAGGAAAGA G G G G G G G G G A A A G A C G A A G G G A G GA G GAA A G C C G G A G A G A GAA A A GAGGAGGGAAGAGAGGCCGGAAAAAAGGCCGGAGGGAGAAA A GAGGGGGGAAAAGGGGAACCGGCCGGAACAGGCCGGGBCAA A G G G G A A G G G G G G A A G GAACCAAAAGGGGGGGGAAGAAAAAC CAAGGAAGGGGAAGGGGAAGGAAAAAAAAAAAACCCCAAGAG $G C C G G C C C C A A A A A A G G A A C C G G A A G G G G A A G G A A A A A A A A G$ GCC G G A A C C G G G G A A C C A A A A G G G G G G G G A A C C G G G G G G G G C CAA A G G G G GAAAAGGAAGGGGAAAAGGCCAAAAAAAAGAAAA ACCGGAAAAGGAAAAGGGGGGAACCAACCGGAAGGGGGAAAG GAAGGGGAAGGGGGGAAGGCCGGCCAAAAAAAAGGGGCAAAA A G GCCGGGGGGGGAAAAAAGGGGAACCGGAACCAAGGGGGGC CAAAAAAAACCACCCAGAAGGAAAAAAGGGGCCAAGAAAACA GAACAGGCCGGCCCCCCAGCAGGGGGGAAGGAAAAAAAAAAA AAAAACAGGGGCCAAAGCCAAGGAAGGAAAGGGGGAAGGGGG GACAA $\mathrm{C} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A A G A A G G A A G G G G A A A A G A G G G G G G A$ $A G G A A G G A A G A G G G G A A A G G G C A G A G G G A A A A G A G G G G A G A G$ ACAATGGGGAAAAGGAAGGGGGGCCTAAAGGAAAACCAGGGG A A A C A G G G GCCAC G G G G G G A A G A A A A G G G A A G GA G A A A G G G G GGGCCCCAAGAGAGGGGCCGGGACCGGGAACAAGGGAGAAGA A A G G A A G A GAGAGGAGGGGGAAAAGCAAGGGCAAAAAAAAAA AAAGGGGAAACAAAAAACAAGGAAGCCGGAGAGAGAGGGCCG G G G A A GA G GAA $A \operatorname{GGG} G A G A A A A A A C C A G A A A C G A A G G A A A A A A$ G G G G G A A G GA GAA $A \operatorname{A} A G G A G A G G A A A G G C C G G A C A G A G G A A G A$ GAAAGGAAGACAGAGACAAGGTTGGAAGGGGAAAAAAAAGGG G GAGACAAGGGACGAAAAAGGGGCCAGAACCCAGAGAAGGGG A A A G G A A A A $\mathcal{A} G A G G G G A G A C A A A G G G G G G G G G G G G A A A A G A A$ A A A A A G G A A A A GCGGAGAGAGGAGAGGAAGAGGGAAAAAGAG G GAGGCCGGGGCCGGAGAATTAAAAGGGAGGGGGGAGAAAAA A A G G A A A A GAGAAAAGGGGAACCAGGAGAAGGAAAAGAAA GA GAAGGAGAAGGCCAAGAGGAAGAGGAAAGGGAAGGAAAGAGG
 $A C C G A A A G A G G G A G A A G C C A A A A A G C A G G A G G G G G A A C A A B A$ G G G G G G G A A G G G G G G G G A A G G A A A A $\mathcal{A} G G G A G G G A G A A A G C C G$ GAAGACCGGAGGGGAAAAGAAAAGGGGGGAGAACCAACCCCC C G GAGGGAAGGAAAACCAAAGAAGGGGGAAAGGTTAAAACCA TAAAGAAAGAAAAACCCGGAGAAAGAAGGATAAAAAACCGGC A A GAAAAGGCCGGAAAAACCACCAACCAGGGAAAAAAGGGGA A A A A A G G G G G G G G A A G A A G A A G GAGAAGGGGAAAAGGA GAA $A$ $G C C G G A A G G A A G G G A A A G G A G A A A A G G C A A G A A A C A C G A A G A$ GACAAGGCCAAAACCAACCGGGGAACGAGAAACAAGGGAAGC CAGGGAAGGAAAACCGGGGAAAAAAGGGAGAGGAAGGGGGGG GCCAAGGGGAGAACCTTGGAGAACCCCCCGACAGGAAAAAAA GAAAGAGAAAAAAGGAAGGAACCGGAAGGGGATGGAAGGGGG G G G G A A A G G A A A A G G G G A GCCACAAGGCCGGGGGGAAAAG GA GA $\operatorname{G} G A A A A A A A G G A A G G G G G G T A A A A A G A G A G C C C G A A C A A A$ AGACCAAGGAAGGAACCGAAGAGAGGGCCGGCCCCGGAACAG

C GACAACGAAGGCGAGCAAGGAAAAAGAAGGAAGGAGAGAGC GAACAGGAGGACAGACAAGGAAGACGCCAAGGAGAGACAAGC ACCCCGAAAAAGAACCGCGAAGGCCAGCCCAGGAAGGAAGEC C C C G A G G G G GAA $A \operatorname{GA} A G C A G G G G A A A A A G A A A A G G G G G A A C A$ CAA $A \operatorname{GA} A A A G G C C G G A A A A G G G G A G G G G G A A A A C A G G G G G G A$ G G G A G G G A A A A A A G G A A G G A A A A G G G A A A G G G G G G G G A A G G G A A C G A A A A A C A A G G GAA A A G G G G G G G G A A G G C A A G G A G G G G A A G G G A A A G G A A A G G G G G G G G G G G A A C A G G T T G G A G C C G G G G A
 CAAAGAAAAAAAAGGCAGGAGGAGGGGGGGAAGGAAAGGGGA A A A G G A G G GCC G A A GACAGAAGGGAGGAAGGAGCCGGGGGGA CAAGGGAGGAAGGGAGGAAAACAAAAAGAAACCGAGAAGAGG
 GCCCGGGCAGAGGGAAAAACCGGAGAAAGGGCAGGCCAAAGC CAACCGGGACCAAGGAAGAACCAGCAGAAGAGGAAAACCCCC CAA $A \operatorname{GA} A A A A A A A G G A G A G G G A G A A C C G A A A A G C C A G A A G G G$
 A G G G A G G A G A A G G G G A G A G G A G G G G C A G G A A A A A G G G A A G G G $G G A A C A G G G A A A A G A A C G A G G A A G G C C A A G G G G A G A C A G A G G$ G G A G G A A A A A A C C G A C C A A G G G G A G G G A A G G G G G A G G TAA $A$ A GAGGGGGAAGGGGGAGGAAAGAAAAAGAAAGGAAAGGAACAA C G G G G G A G G A G G G A A A A A G G G G A G G A G G G C CAC G G A A C C G G G GCCGGCCGGCCAAAACCGGGGGGAAAAGGCCAAGGGAAAGAG AAAGGGGCCGGAGAGAAAACCAGGAGGCCGGGAAAGAGAAAA A A A C C A A G G G G G G G A G G C A G G A A G G G G A A A G A A G G G G A A G G A A G GAA A G G GCCAAGACCAGGGGGAAAAAACCAA GGGGGGGGA A G G G G A A A A C C G GC C G G G GAA $A \operatorname{AGGGGGGGGGAACCGGGAAAC}$ C G G A A A A G G A A A A $\mathcal{A} G G G G G G G G G A A A A A G A C A G G A G A A A C A A$ $C G G C C G G G G G G G G C C A G A A A A G G G G G G G G G G G G A A A A A A G A A$ G G G G G G G G G G G A A G GAAAA A G G GAA $A$ AGGACAAGA AATAGAGGA GAGAAAGAGAGGGGGGGAAAAAAAAGGAAAAAGAAAAAAAAG G G GAGAAAGGAGGAGGAAGAAAGGAAGGAAGGAGAACAGAAG G G GAACCGGAAGGCCCAGAGGGGACGGACGGGGGGAAAAGEC C G G G G A A G GAACC G G G G A A GGAAAAAAGACAAGAAAAGAAAA A A A GAGGAAGAAGAGGAAACCAAAAGGGGGACACCAAACAAA A GAGAAGAGGAAGGAGGAGCCAAAGGGGGAAAAAAGACAAGG G GAAAACAGAGAGCCATGGAATTCCGAGAAGAGAACGCAAAA CAGCAA $A \operatorname{A} A G A G A G G G G A A A G T T G G G A G G A A A A G G G G A A A A C$ A A A G G G G G A G G G G G G A G A A G G G G A A A A C C A A G G A A G A G G A G G G G G G G A G A A A A A A A A A A A CACA A G G GAGGGGGGGGGGAAAAA AAGGGAAGGAGCCGCAGAAAGGGAAAAGGAGGAGGCCAAAAA C C C C CACAAGGAAGGAAGGCCCCAGGAGAAAAAGAGGGAAAG GAAGGAAGGAACCAGCCCCAAGGGGAAGAGAGGGAGGGGAGG
 GAAAGCAAAAGAGAAGGCCCCGGACGGGGGGAAGGAAAACCC CA G T T T T A G A A A A G G A G G A G G C C G G A A G G G G C A A A C C A G A A G GCCGGGAAACCGGAGAGAAGGGGAAAACCGGGACCCAAAAAC A A A G G G GAA A G G G G GAA A G G G A GAA A A A G G GAACCAA A A A A A A GAA ACAAAGGCAAAAAGGGGAAGGGGGGGGAACCAGAAGGA GAGGGGAGACCAAGGGGCCCAAAGAGGAAAAAAAAAAAGGAA GAAGGGAGAAGTAAGGGAGGGAAGAAAGGGGGGAAGGAAGGG
 A G G A A $\operatorname{A} G A A A C A C G G G A G G G A A A G G G G G G G G A G G G A A A A G A G$ G G G C A G A A G G G G G C C G G G G A G C C A A A G G G G G G A G G G A C C A A A G G G G G G G G GAGGGGAAAGGAAAACCGAGAGGGAAGCGAAAAA GAAACAACCAAAAGAGGAGGAAGAGAGAAGAGGACAGAAGAG
 G G G A C G G A A G G A G A G A A G G T T A A C C A G G G C C G A A A C C G G G G A $A G A A A A A A A G G G A G G G G G G G A G A A G G G G G G A A C A G C C A A A G G$

A G GA GAAAAAAGGAAGAAAAGAGGCAAGAAGGGGGAAAAAAA
 G G G G G A G G GAACAAAGGAAAAAAGGAGGGGAGGAAAACAACB AAAACAGAAAGCCCCGGAAAAAACCAAAGAAGAGAGG
GGGGCCAAGAGGGGAGGAGGCCAAAACAGACCGGAACAGGA C G G G G GACAAACCGGGGAAGGCCAGAAGAGGAAGGAAAAAGA A A A A G A G A G G G G G G G A G G G A GC C A G A A A A A A G G G G G G G A G G A AAAAAGGGAGGGAGAAGATGAAAAGGGCCGGAGGGGAAAGGG A G G A A G G G G G G A A C C G A GAGGGGGAGACACGAAGACCA GATA G G GAAGGAGACGGAACAAAAGACGGCCCACAAAGGGGGGGAG A A G G GAGCAAAAAAAAGGGAAGAGAGGGGGGGGACAGAACAA GAAGGAGGAAAAAGGGGAAAGAAGGGGGGGGAGAAAAAGCCC A A GCAGACAGGGGAAGAGGAAGGAGCAGGGGAACAAAAAAAA G G G G A G G A A C A A A G G G G A G GA G G A A A A C A A A A A C C A A G G G G C AAACAGCGGAAGGGGAAAAGGAAGGGGACAAGGAGAGAGAAA AAAAAGGAAAAGGAAAAAAGGCCGGAAGAAAAAGGGGACAAA
 G G A A A G G G A C C A A G G G G G G G G T T G A C G A A G GCCAA GACAAA C GAGGGAGGGGGAGAGCAGAGGGGAAGGGAGGGAAAAAAAAAA A G G C A G G A A G G G G G G A G C A G A G A A G A A C C A G CA G G G C G G G G G GACCCAGAGGGGGACAGAGGAGGAAGGGGAAAGGAAAAAACA
 A A A A A G G C C G G G G G G C C G G G G G G C C G G C C G G G G G G G G A A C C G G A A A A A G G G A G A A G A A GAGAGAGGACCAGGAGAAGGAAGAGG A G G A G G A A A A A A A G GAA A CAAA A A A A A A A A G GAGGGG GAA A A A GAGGAGAAGGGCCGGGAATAAGAAAAAAAGGGAACAGCAGAA AAAAAAAAGAGGGCCAAGGGGAAAACCGAAGGAAAAGACGCA G G A A A C C G G G G A A C A G A A A GAGGCCCAGGAAGGCCACGGGGA A G G GAG GACAAGGAAGAGGAACAAGAAGGAGGGAGGGAAGAC C GAGGAGACCCAACCGGGAAAGGAAAAAGCCGGAAGGCAAAG GCCGGGAAAAGGGGAGAGGCCGGAAAACCCAGGGGAGGGGGG $A C C C A G G G A A C C C A A C C G G A A G A A A A G G G G G A A G G G G A A A G G$ G GAAACCGGGGGGGGAAGGCCGGAAAAGGGGAAAAGGGAAAG GAAAAGGGAGAAACCGAGAAACCGGAAAAAAGGGAGAAGGBA A G G A A A A $\mathcal{A} G G G G G G G G G G G A G G A T T G G A A G G G G G G A G A A C A C$ GAGGGAGGAGGGGGACCAGGGGGAGGGCACACCAAGGAAAAG AA $\operatorname{A} A A A G G G G G A G A A G G A A A A A A G G G A A A A A A A A G G G A A A G T$ TAAGGCCAGAAGGAGGGGAGAAAGGCCGGGGCCAAGGGGGGA A A A G G G GAAAA A GAAAAAGGGAAGAAGAAGGGAGGAAAAAAA A A A A C C C G G G G A G A G G A A A A C C C G A A GCC GAGGTTAA GAG G G GGGCCAGAAGGAACAAAAAAGGACAAAGAGGGGAAAGGAAAA A A ACCAAGGACAAAAAAAAAAGGAACCGGGAAGAAA GAAGGG GAGGGGGGGGGCCGCGAAAAAAGAAGGAGGAGGCCAGAGGGG A G G A A G G G GAGGGAAAAGGCAAGAAGGAACCCCGGACAGAGG A GAGAAAAAAAAAGGCAAGACAAAAGGGAGAAGBAGGGGGGC CA $A \subset A A A A A A G G G G G A A A A C G G G C C A G G G G A G G G G A A G G A G G$ G G G A A A C A G G G G G A A G G A G G G C A A G A G A A A A A A G G A A A G G G G A G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} C \subset A A A A G A A A A A A G A G G G C \subset A A C G G G G G G G G G G$ G G G G G G GCAAAAAGGAAGGCCAAGGGAAGGAAAAAGGCAAAA A G G G G GAAACCAAAAAAAAAGGGAACCGGAAAGAGAAAAAAA A GAGGGAGGAAAAAAAAACGAACGGGAGAGGAGAGGGAGAAAA A G G G G A A A A G G A A G G G G G G G G A G G G A A G G A A T T G G GA GAAA A G G GAGAAGGAAAAGGAAACAAAAAGAAGGAGGGAGAGCAGGA C GAA ACCAAAAGGGAGGGAAAAGGGGGCAGGGACAAGGAGAA G G GCCAAGGGGAGAAAGGGGGGGGGACGGGGACGGAAAAGGG A G G G G A A C C A A G G A G G GCC G G G G G G A A G G G A G G
$113118000-9 A A G G G G A C G G A A G G G G A A G G G G G A A A A A G G G G C$ CAAAGAACCCCCCAAGGGGAGCCGGAAGGAAGGCCAAAAGGA $A C C A A A A G G G G A A A A G G A A C C G G G G G G A G A C G G G G C C G G G G G$
$A G G C C A A G G G A G G A G G A G A A G G G G G G G C C G G A G C A A G G G G G A$ $A C C G A G G G A G G A A G G C C A G A G C C G G G G A A A A A A A A G G G G A A A$ $A C C A A C C G G C C A A A G G A A A A G G G G A A A G G G G G G A C G G C A A G B$ A G G A A A A G G G G G G G G G G G G G G A A G A A G G GC C G A A A A A G GA G G A G G GAGAAGGGCCAGGAAAAAAGAACCAGGGGGCAGGCAAGA A G A G A G A G A A A G G G A A A A A G G G G A A G GAAA A C C A GAGGAA G A GCAGAGGAAACGAGAGAGAGAGGGAAGAGCCAACCAGGAAAG G G G G G A A C C G GAACCCCGGAGAAGGGGTAGGCAAAAGATAAG GAAAGGGGAAGAACCAAGGAAAAAAAATTCCGGGGCCGGGGA AAAAGAAGGGAAGAAGAAAAAGAGAAAAAGGCAAAACAGAAG A A G A A A G A A A G GAA A G GCAAAGGGGCCGGAGGGAAAACC G GA A A A A A ACAACCGGACGGCAGGAAAAAAGGAAAAGAAGGAAGG GAGGAAAGAGAAACCGAGAGGAGGAGGCAAGAAAGAAAAGAA GGGAGGACAAGAAGAGGAAAAGACCAAAACCGGGGAAAAAAA A GAA A G G G GAACCGCGGAGGGAGAGAAGGAGGGCAGAAAAAA A A A GAAACAGGAAGGGGCCAAGGGAAGGGCCGGTTGGGAAAA G G G A A A A A C GAGAAACAGAGAGGAAAAAAGGCCAAAAGAAAG G G G G G A A G G GAAACCCCGGGGAAAGGACCAGAGGAGAAACAA GACAAGGCCGGAACAAAGGGAAAAGGAAAGGGGAAAAAAAAA A G G A A A G A A A A G G G G G G G A A A G G G G A A G G A A GAGGGAAAAAC CAAGGAAAAGGGGGGCCAAGAGGAACCAAAAAACCAGAACGG ACCGGGGAAGGGGAAAAAAAAAAAAGGAAGGAAGGAAAAAAA A A A G G A A A A A A A A G GAA A G G G A A A A C C GGGGCCAAAAGAAAG GAAGGGGGGAAAACCGGAAAAGGGGCCGGAAAACCAAGAAAA A A A A A G G G GAACCGGGGAAAACCGGAAGGAAGGGGAAGGGGA A G G G GAAAAAAGGGGAACCGGAACCAAAAAAAAAAGAAAAAA AAACCGGCCAAAAAAAAGGGGGGAAGGCCAAGGAAAAAAGGG $G C C A A A A G G A A A A C C A A G G G G G G G G A A A A G G A A A A G G A A G B A$ A G G G G G G A A A A C CA A A A A A G GAA $A \operatorname{AGGGGGGGAAGGCAAAGGG}$ GAAAAAAAAAAAAGGGGAAAACCGGGGGGCCAAGGAAAAAAA A G G A A A A A A A A T T A A G GAA $A \operatorname{AGGGGGCATTGGCCAAGGGAAAC}$ A A A G G G GAAAAAAGGGGGGGGAAAACCGGAAAAGGGGGBAAA
 GAAGGAACCGGCCAAGGGGCCGGGGAAGGAAGGCCGGCAAAA A A A A ACCAACCAAAAGGGGGGGGAAAAGGAAAAAAGGAACAA
 GAATTGGGGGGAAGGGGGGAAGGAAGGAAAAGGAAAAGGGGG G G G G G A A A A G G A A A A A A G GAAAAAA A G GAACGGGCA GAA GA G G G G G A G G A G G G G G G G G G C C G G G G G G A A G G A A A A A A G G G G C C C C G G G G G G G G A A C C G G G G A A A A A A G G G G A A G G G G G G T T A A G G A A A A A A A A G GAA G GAACCCCGGAAGGAACCAAGGGGGGGAAAA A G GCCGGGGAAAAAAAAGGAAAACCAAGGGGCCCCAAAAAAG GAAGAAGATCAGGAAGGCCGGGGAACCAAAAAAGGCCAGGAG A G G G A G G G G G G A G G A A A G G A A A A A A A C G GAGAAAA GACAAA G G G G A G G G C G G G G G G A G G G G A A A A GAGGACGACCAAACCACAA A A A A A A A A A A G GCGAGAGAAGAGAAGGAACCGAACGAGAGGG AAGGAGAAGGGAGGGAAAAGGAAGGAGGAAGAAAAAAGAAAG G G G GAGAAAAACCAGGAAGAACCGGAGGGCAAAACGGGGGGA GAGCAGGACGAGGAAGGGGGAAAAAAAGACAAGGAGAACGBA A G G G G G A A A C CAAA A GACCAGGGGGCCACAAGAAGCCAAGAG GAAGGGGGAGACCGGCCAAGAAAACAAAAAAAGAACCAACAG G GAGGGAGGAAAAGGAAGAACGAAGGGAAGGGAGAAGGACAA G G G A A A A G A A ACCAAAGGACAGAGACCACAGCCGAGAAGAAG GAAGAGACAAAAAGGCCGGGGACGGAAGGAAAAAAGAAAAGG GAAAGAGCCAACCACGGCAGGAGGAAAGGAAAGAAAAGGGGA A G G G G G A G A G A A G A A A G CA $A \operatorname{GGGGAAAAGGGGAAAAGGCCGGG}$ A A GCAACGGAAAACAGAAGGGAGGAAGGGAGGGACGGGAACA $G G A G G A A A G A G C A A A A G A A A G A G A C G A G G G A G A G A G C A A A G A$ GACGAAGAGAGAAGACAGAACAGAGGAACAGAGGGGGGGGGG

GAAAAGAGGGAAGGAAGCGATAGATGAAGGAAAGAAAAACCG G G G G G G G A A A A A A A A A A A A G G G G G G A A C C A A G G A A A A A A G G G G G G G G A A G G A A G G A A A A G GCCAAAAAAAGGGGCCGGGGGAAA G GAAAAGGGGTTAAAAGGAAAAGGAAAAGGGGGGAAAAAAAAA A G G G GAAGGCCAACCGGGGAAAAAAGGCCGGCCAAAAGAAAC C G G A A T T G G G G G G A A G G C C G G A A G G G G G G G G A A A A A A G G C C A $A G G A A G G G G G G G G A A G G A A G G G G G G A A A A C C G G G G G G G G G G G$ GACAAAAGGAAGGGGAAGAAAACAAAAGAAGGAAGCCGGGGG A G G G G A A A A A A A A A A A A A A A A A A C C GA GA G G G G G GAAAA A G A A G G A A G GAAAAAAAAGGAAAACCGGGGCCAGGAGGCCCCGGG G G GAA A G G G G A A A A G G A G G T A G G G GCCAAAAAAAAAG GAAAA $A$ G A A A A A A $\mathcal{A} G G G A A G G G G G G C C G G G G G G A A A A C C A A C C A A G G G$ G G G T T G G G G A A G G G G C C A A A A $\mathcal{A} G A A G G G G A A G G G G G G G G G G G$ $G G G A A A A G G G G G G A A G G A A G G A A G G C C G G A A A A A A A A G G G G T$ T G G G G G G G G A A G G G G A A A A G G G G A A A A A A C C G G G G G G G G A A A

 $C G G G G C C G G G G G G A A A A G G G G A A G G A A G G A A A A A A A A G G G G G$ GAAGGAACCAAAAAAAACCAACCGGAAAAAAAAGGGAAAAAA A A A A A A A G G G G A A A A G G A A A A G G A A A A GA G GAA G GAA G GAA A A A A A A G GAA AGAAAGGAGAGAAAAAAAAAGGAGAGAGGAGGA
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 A G G G G A A A GACAGAACAAGAAGAAGACAGACAAAAAGAAAAC $C G G A A G G A A G G G G A A A A G G A A A A A C A G C C G A A C A G G G G A G G G$ G GACCAAGGAAAGGGAAGGAGGGGAGGCCAGAGAAGAACGAG G TAGGGGAGAGCAGGGGAAAGACAGCCGGACAGGGAAGGGGA
 C C C G G GAGGCAGGAAGGGGAAACAGGGAGAACCAGGGA GAAA G G G GAA A A GAGAGGGAACCGGGGGAAAAGAAAA GAGGGAAAG A A A A A A G A A A G G A A A G GAGGGAGACATGGGGAA GAGGA GAGG GAACCAAGAAGTAAAAAAGGGCACACCCCCCAAAACGCCGGG GAACCAAGGGGGAAAAAGGAGGGCGAAAACCGGGGGGGAAAC CCCGGAAGAGACCAAAAGGGAGAAAAAGGAACCBAAAGAAGA AAAGAAGGAGAAGAGGAAGGGAGGGAGGAACAGAACCGAGGA G GAA A A G G G GAGGAAGGGGCACCAGAGGAAGGAGGAGGAAAA GAGAACCGGGGCAAGGGGGAGAGAAGGGAGGAGAGAAGAAAG G G GCCCCGGGGGAGAAAAAAGAACCGGAGAAACACAG
GAATAGGAGAGAGGGAAAAAAAAAAAAAGGGGAAGAAAGAG GAACAAGAACGACGGAGAGAAGGCGGGGAAGACCAACGBAGC $A G G A C A G G G A G G G A A A G C A G G G G C C G G A A A G A G A G A A G A A G G$

GAGGGAAGAGGCCAGGACAGAGAAGACGAGAGGCAGAAAGGA GAGGGGGAAAAAAAAAAAGAGCCAAAAAGAACCAGAGAGACC A G G G G G GAAAAAACCAAGGAAGGGGGGAAAAGACAGGCAGAA GACGGAAGGAAGGAGGAAAGGGGAAAGAGAGCGGGGGGAGGC G G GCCAAGGGGGAACTTCAGATTAGGAATAAAAGGAAAAAA G G G G G G G G G G G G G G A G A A G G G G A A A G A A C A G GA G G G C C G G A G G GAAAAGGGGAGCGCCCCAGGAAGGAGAGGAAGGAGGGACGAA GCAAGGGAAACGGAGAAGGACAGGGAAGAGGAACAGGGCAAA GAAGAAAGAAAGGAGGGGACAAGCAGAAAAGGGGAAAAGCCG GAGCCGAAAAGAGGGGGAAGGAAGGAAAAAAGGGGGGGGGGA A A A A A G G G G G GAA $A \operatorname{GACA} \operatorname{A} C C G G A G A C A G G G C C G G A A A A G G C$
 A GAGGCCATCCCCGAGAGGAAGGGGAAACGAAGGGTTAAGEG G GAGGAGAAGAAAAGAAAAAAGGAAGGAAAAGGGGAACAAGA A A A A A A A A GAAAAAAAGGGCCGGGACCGAAGGAAAAAGACCA A GAACCCAAGGAAGACAGAAGGGAAGGGGAGGGGGGGGAAAA A G G G G G G A G G GCC C G G G G G GAA A A GCCAC G G G A GAAA G GAAA AAAGGAAAAGAGGGGCAAAAAGGGACAAGGAAAA GAGAAGGG
 GAAA $A \operatorname{AG} \operatorname{A} A \mathrm{G} G A G A C A A A A A G G G G A A G G A A A A G G G G G A A A C A G$ G G GAACCAGGGTTAAGGAAGGGAAAGGGGGGAAGGAGGAAAG GAGAGAAAGCGACAACCGAAGGAACCACAAGAACCCCAAACA
 G G A A G G G C C G G A G G G G G G G G G A G A G A G C G G A G G A C A G G G G A G A G G A A A A G GAA A G G A T TA GAGCAGAAAAGAAGGAGGGCAA G C $C \subset C A A C C A A A A G G G A C A A A C C A A G G G A G G A G G G A G G G G G A G G$ GACAAGGAAGCAAGAAGGGAGGGAAAAGAAAAAAGAAGAGAA A A GAAGGCCAAGGCCCCGGAGAGGGAAAAGGAAAAGAGAAAC CAAAAAAAGAGCAGAAAAGGGAGAGGGAAAGGAAAAAAAGBC C CAGGGGGAAAGGAGAAGGGGAAGGGGCCAGAAGAGAAGAGAG GAAGGGGAACCTTGGCCCCGGAACCAAAAAAAAGGGGGATAA G GAA $A \operatorname{GA} A A A G A G G A A A A A G G G G G G G A A A G G G G C C G G C G G G G$ GAAAACCAGGGAGGGGGGAAGGAGGGGACGGAAGAGACAGGG G G GCGGGAGAAGGGGAGTTGAAGGAGGAGAAAGGAGAACCAA A A A A A G G A A G G A A A A A A A A A GACCCCCGGGAAGAACAA G GAA GAAGGAGGAATAGAGGACCGGAAAGACCCAAAAAAACGAAAG A G G GAAAAACAGGGAGAAAGGGGGGAAAAAAAAGAAAAAGAA AACGGGGCCGACCGAAAAGACAAGGAGCCAGGGAGAAAAGGC CAAGGGGGGAAGGACGAAAAAGGGGAACCCCGGCCCCACGEC A A A G G A A A A G G T T A A G G G G C C G G A A GAG G A A A A G A A A G G G G G $A C A G A A A G A A G G A A G A G A T A G A A A A G G C C A A A G A G A A G A G G G$
 $A C A G A A A G A A G A G G G G A G A A C A C A A C A G G G G A A G A A A A A G G G$ GAAGGAAAAGAAACAAGGAAAAAAAAGGAGAAAAAAA GAAAA A A A G G G A A A G A A A G G G G G G G G G A G G A A G GAA A A G GAG G GAA A GCCAGAAGGAACCCCGGGGAAAGGAAACAAAGGAGCCGAGAA GAGAGTTGGCCGGAGGAAGAAGGGAGAAAGGAGAAAAGAAAA A A A G GCCCCGGAAGGGGCCAGGGAAACGGAAAAGGGGAAAAA GAAGGACAAGGAAAAGGAAAAAGGAAAAAAAGGAAGGGAAAG G GAACAGAGGGAACCAAGGAGGAGAAAAAGGAGACAAGAGAA A G G A A C C A A G G G G C C G G G G G G G G A A A G G G A G G A A G A A A A G G G $G C C G G G A A G G G G G A A A A G G A A G G A A A A A A A G A G A A G A A G G G G$
 G G G G G G G G G A A G GAAGGACAGGGCCGGGAGGAAGGGGCAAAC A A GAAAGGAGGGAGAGGAAAAAGGGTTAAGGCCAAAAAAAAA A A G A A A A G G G A A C A A A GAAAAAGGGGGCCGAGGCCTTCAAAG GAAGGAAAAAAGGACAGAGAAAAGGGAAGAAAAGGAAAAAGA A G G G G C A A GAGCAG GAACCAGAAAACCGAGAAGAAGGGAA G G G G GACAAAGAAGGGACCAGAGAAGGGGGGAAGAAGAAGAGAC

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 AAAAACCACAGAAAAAAGGAAGAATTAACAAAAAAGGAAAAG GAAAA $A$ A $\operatorname{A} G G G A A C C G G T A C C A G A G A C G G A A C C G G G A C A G G A$ G G GAA AACAGGGGGAACGAAAGACCAAGAAAAAGGAGGGAGG GAGAACCAGAAAACAGGGGAAAAAAAAAAGGGGGGGAAACAG
 GAAAAGGGGGAAGAAAGAAGGAACCGAAGAGCCAAGGTXACA $A C C G G C C A A A A A G G A A A A G G A A A G G G G G A A A A A A A A C A G A G G$ G G G A A G G G G G G A G C A A A G G A A A A A A G GAAG GAGCACA GAATA $A C C G G C C G A G G A A A A A A A G A A G G G A T A G G A A A A G G A A G G G G A$ AAACCAAGGAAGGAGGGGCCAAGAAGACCGGAGGGCACCGGG GAGAACCGGGAGGAATAGGGGGGAAAAGGAAAGAGGAGAAGG G A A A A G G A A A A G G T T A A A G GAGGAGCAAGACAAAGAGACGGA
 TGAAAAAGGCAGACAGGGAAGGGAGCACAGAAAAAGGGGGGA G G G G G GAAA A A A G GAGAAACCAAAAGGGAGGAAGGCCGAGAA A A GAGGAAACAGGCAGACCAAGGGGGGAAAGGAGGGGGAABA A G G G GCCAAAGATGGAAAACAGACCAGAGAGGGAAAGGAGAC AAAAACAAAGGGGAAAAAAAAGGTACCAACCAGTTAGAAGGC A G G A A A A A A G G GACCAAAAGGGGGGAAAAAAAAA GAAGAAGA AAGGAAGGAACGGAAAAAAGAGACCACACGGCATTGGAAAAA A G GAACCGGAGCAGGGGAACCAGAGGGAAGGGGCAAGAGAGA GAGCAAAGGAAGGGGAAGGGGGGAAAAAAAAGGGGGGGACAA AAAGGAGCCAAGGGGAACCGAAACCAGGGACAGCCAAGAAAA GAGCCAGGGGGAAGGACAAGGCCGGAGGGGGGGAGAAGAAAG GCGAAAGGGGAGGAGACAGAAAACCAGTAGAACGGCCGAAAAA

 A G A A G A C G A A A A A G GCCGAGGCCGGGGCCAAAGA GA GAAGAA A G G G G A GAGGCAAAGGGAAGGAAAAAACCAAAAGGGGCCGGG GAAGGAAAAATGAAAAACCGGGAAAAAGGGGGGAAAAAAGAA A GAAAAACCCAAACCAAGGGAAGGAAAGGGACCCCGAAGGAC AAGCCAAAGGACAAAAAAAAGCCGGAAAAAAGGCCAAAAGEC CAGAAAAAAGGACAGCCAAAAGGACAGAAAGGGGAGAGAAGG A A GAGGAAGCATAAGAGGAAAAAAAAAGACCAAGGCAAGACG GAGACAGGGCGGGGGAAGGAAAAGGAAAGGAGCGACCCACCG A A A A A A A GAGGAGAAGCAGAAGAAAGGAAGGGGGAATAAAAA $A C C A C G G C C G G A A G A A A C C C A G A G G A A A A G G A A A A A A A A G A G$ A G G G G A T G A GAAAA A GAAA A G G G G A GAGGAGCAGGCCAGAAG G G G G G G G G G GACC G G GACCAGACGGTAAGGAGGCCAGGAGAA AACGGGAAAAGAGAGAGGGGAAAGGACGGGGAAGGAAAAAAA A A A A A G G G A A T C A A A GAAA $A \operatorname{AGGGGGAAAAAAACATAAAACCG}$ GAAAAAAAAAAGAGGAGACCCGGTTAGAAAACAAAGGGGGCA GAGGAGACGGGGGCCGGGAAGGGGGGGGGAAAGGAACAAAAA T GAGAAAGAAAGGAAAGGAAAGGGGAAGGAATTGGGA
AAAAGGGAAACCGGGGAAGAAGAGGGGGAACCGGGGGAGCG GAGCCGAAGCCAACCGAAGGGCCGGAGAACACAGAGGGGGAG G G G GAA AGAGAACAGAGGAGAGGAAAGAAAAAAAGAAAAAAG

G G GACCAAGAGAAAAGGCCGAGGCCAAAAGGCCGGAAAATTG GAGCGAAGGCAAAGAACGACACCAAGGAGAAGGAGAACAAAT TAAAAACAGAAAGAAGAGGAACAAAAAGAGGAGAGGGGGCCG G G G G G GAGGGAAAAGCAGGAAAAGAAGGGGGAAAAGGGAAGA AAGCCCAAGAAAGAACACCGGGGCCAGGAAGAGGAGGGGAGG GAAAAGGAAAAGGAAGGAAGGGGGGAAGGGGAGTTCAAAAAG G G G G GCCAAGGGGGGGGAACGCCAAAGGGAGGGAAGAAAAAA $A G G G G C C A G A A G G A G G G G G G G C C A A A G A G G G A A G A G G G G G G G$ G GAGGGACCGGGGCAGAAGAGAAGAGACCAGAAAAGGAAAAA G GAGGAGACAGGGCCAAGGAAAAGGAGGAAGGAAAAGAAA GA G G G G A G G A A A A G G G G G C A G G G A A G G G G A A G G G G A G G A G A C C C C C A A G A G G A A G A G A C A A A G A A A A A GAGGAAAA GTTCAAGCCG

 A A A G G A A G G A A G G G G A A A A A GAA $A \operatorname{AGGGGGCGAGCCTTGAGGG}$ G G G G GA A A A G G GAGAACAGAGCGCCGGAACCGGGAAAGAAAG A A A GAA GAC GAGAACAAAAAAAAGGAATTCCAAGGAACAAAA C G G A G A G G A C C A GAAGGGGCCAAGGGAAGAGAAGAAAAAAAC
 A GACCACAAAAGGGGAAAAAGAGAACAAAAAAAGGBACAAAG AACAAGGAAAAGGGGAAGCGAAGGAGGAGAGAGGAGAAGAGG A A A A A A A G GAGAAGGAACCAAGGAAACGGAGAGACAGCCGGG G GAGGAGCCGGCCGACCGAGGGAGGACGGGGAGAGAACAAAG $G C C C A G G C C A A A A G G A A A A G G A C A A G A G G G A G A A C A G A G G G G$ A A A G A A G A G G G A A G G G A A A G G A A G G G G A A A A G G G G G G G G A G G G G A G G G G G G A C G G G C G G A G G G G G A G A A A C G G A G G G G A G G G G G CAGAGAAAGAGAAAAAGGAGAAAAGGGGGCAAAACACCCGGG A A A A A A A A A G G G A G G G G A A A A G G A A G G A G A A G G G G GAC C G G G $G C C A A A A G G G G G G A A A A A A A A G G A A A A G G G G A A A A A A G G G G G$ GGGCCAAGGAAGGGGGGGGGAGGAAAAGAAAAAGGGGGAAAA A A A G G G G A A A A A A A A G A A C C C A A G G G G G A G G A A A A C A A A A G C C GAGGGGGAGGGGCAGAAAGGAGGGAAGGGGAGAAAAAGGAG ACCGGAAGAAAGAAGCCAAGGAAGGGGACGGAAGAAAGAAAA G GAG G A C A G G G G G GAGAGAGGAGACAAGAGGACAA GAGGGGG A GAGAGAAGCCAGAAGGGGAGGGAGGGGGACAGGAAAAAAAG GAGGGAGGGGGGAAGAGGGACGAGAAAAAAAAAAGGAGACAA AAAAGCAAGAAGGCGGGACACAGGAGAAGAAGGCCGAGAACA A G GAA A GCCAGACGGGGAAGGGGACGGGGAGCCGGAAGAAAA A A C G G G G A G G G G A A A A A G G T T A G A A G A A GAA A A A G A C G G G G A A GAA A G G CCCCAGGAGAAGGAAAAGGGCAAGGACCGAAAAAG GAAAGAGGGAAGAGGAAGGAGAAGGAAGGCAGAGGGGAAAAG GAACAGAGAAGGAAAAGAGAAGGGAAGGACAABCCGBAGGGG G G G G G G GAGAGGGCCAGAGAGGGAGAAGGCCGGTTGGAACAA A A A A A A A G GAA A A G GAAGGAAGGAAAAGGGAGGAACAAAAAA GAAGGGGGGAACAGAAGGAGGGGGAAGGGGGAGAGCCACCCC C GAGAAAAGAAAAAGCCAGGGAGAAGAAAGAGGAGAGGACCB G A A A A A G A G A A G G A A A C GAGGAAGAGGGACACAAAAAAACA G GAA $A \operatorname{G} G A A G A A G G G G A G G G G G G G G G A A G G A A G G G G G G G G C C A$ AAAACAAAAAAAACCGAGGAAAAGGGACCGAAGACAAAAAAG ACCGAAGAAAAAAAAGGAAAAGGGGAAAAAAGGAAAAAAGEG GAAAACCGGACGAAGCCGGCCGGGAAGAAGGAGGAAAAAGGG AA $A \operatorname{GGG} \operatorname{GA} A C G A A G G G A A G A G G C C C A A A G A G G G G A A A A G A A A C$ CAAAAAAGAGAAAAGAAAGAAGGACCCGGGAAAGGGGAGAAC GAGAGACAGAAAAAAAGAAGGGGAGGACAGGAAGGAGGGAAA
 C G G G G G G CCGGAAAAAACCAAAAGGAACCAAGAAAAGAAAGA A G G G G A A CCGGCCCCGGAAAGGGGGGAAAAAACAAAAAGCAA A G G A G G G C C G A G G A A G G A A G G A A G G G G G G A G A A G A A G A G A A $G$ $G G A A A A G A G A A G G A A A A A G A G A A G G G G G G G G G G G G A A G G G G G$

GAATTAGGGAAGGAACCAAAGGGAACCGAAAAACCGGGAAAG A A A A A A A A A G G A A GAAAAA A G GAACGAGAAAGGCCGGAAGAG GAAGGGGGGGGAAGGAAAAGAAAGGCCCAGGAGGAGAAAAAG GAAGGTTGGAAAAAAAGAACAAGGGAGGATTGACCGACCCCC CAAGAGGAGGGGGAGGGGACAAAGGGGAAAGGAGGCCCAAAAA ACCGGGAAGAGGAGGAAAAGGAGAAAAAAAAAGAGGGAAAAG G GACAAAAAGCAAAAACGGAAAACCGAAAAGCCCCGCBACAA G G GAAGGGAAAGGGGGGCCGACCGAAGAAGGGAGAGAAAGGA AA GACAGAAGGAGAACCGGAAGAAAGGAAAAGAA GAA GAA GA A G GAAA A A A G G G G GAGAGAAGAAAAAAACACGAAGGGGGGGA A G G G G A A G G G GAGACAGAAAAGGAGGGAACAGGAACCAAAGA GAGGGAAAAAAGGCCAAAAGAAAGGAACAAAAGCAAAA GAAA A G A G A A A A G G G A G G G G G G G A A $\mathcal{A} G A G G G A A A A G G G G A C A A A G G$ G G G G G A A G GAA A G G GAAA $A \operatorname{AGGGGAAGGGGGAGAAAAAAGAAG}$ G G GAGGAGGGCAGGGAGAAGAAAAAGGAAAAAAGGAAAAGGG G G G A A A A G GAGGGGGGGAGAAAAATGGAACAAAAGAGAGGGG GAACCAAGAAGCAGCAGGGCCAACCAAGGAGGGGGGAAAAAA A G GAGCCAACAACAGAAGGCGCAGGAAGAGGCAACAAGAAGG $G G A C A A T A G G A G G A A A G A G G A A G A G G G A A G G G G G G A C A A A A G$ G A $\operatorname{A} A A G G G G G G G G A A A G A G G G G G G G G G A A G G A G C C B A A A G A C$ $C G G A A G G G G G G A A G G A A G G G G A A G G G G G G G G A A A A G G A A G G A$ A A A G G G G A A G G G G G G G G A A A A A A A A G G G GAAC A A A G G C C G G G GAAGGAAAAGGGGGGAAAAAAGGAAAAAAAAGGAAAGAAAAA
 A A A G G A A A A A A G G G GAA $A \operatorname{G} \operatorname{A} A A A G A A G G G G C C G G A A C C G G G G T$ TAAGGGGAAAACCAAAACCGGGGGGAAAAAAGGAAGAAAGAC AA GAAGGAAAGAGAAGGCCACAAACGAAAAGAAGGAAAAAGA A G A A A A G A A G G GAAACCAAGGGGAAATAACCGACCGAAAACG GAAGAAGGGAGCCGGAAAAAGGAAGCCAGAGGGAAAACAAGG CAGGGAGAGAAAGGGAAAAAGGGGGAAAGAAAAATGGGAAGA A A G G A G G G G G G A A GAAAAGAAAAAGGAAAGGAGGCCAAAAAA AAAGGAGAAGGAAGGAAGGGGAAAAAAAAGGAACCGGGAGAG $C \subset C G A A C A G G G A A A A A A A A C A G G A A A A C C A G A G G G A A G A G G G$ C G G A C G G A A A A C C G G G G G G A A A A A G GAAAAA A G G GAACA $\mathcal{A} G A$ G GAGGAAGAGGAAGGAGAGAAACGGGGGAAAAAGGAAGACCG GAAGGAAGGAAGGGCGGAAGAAAGGAAAAAAAAAACCGAABAA GCAGGGGAAGAGAAAAGCCGGAAGGAAAGAAAGGGGAAAAAA $C \subset C C A G C G G G A A G A G G G G G A A G G G G G G G G A A G G A A A A A A A A G$ G G G A A G G G G A A A A G A A A G G CA $\operatorname{A} G \mathrm{G} G A A G C C G G G G G G C A G A A A G$ GAACCCCCCAAAGCAGAGGAACAAGAAGAAGAGAGAGCAGAA GAAGGAAGAAAAAGAGGAGAGGGGGAAAGAAACAAGGCAGGG GAAAAAAGGCCGGAAGGAAAAAACCAAGGAGAAAAAAGAAGA GTTAGGGAACAGAAACCGAAAACGAAAGGAGGAAACAGGGGG $A C C G A G G A G A A G G G A G G A T C C C C G A A G G G G G G G A A G G G A A A G$ A A A A A A A CACCAACCGGAAAACCAAGGGGAGAAGGGGGAAGA $A C C C C A A G G A A G G C C G G T T G G G G G G A G A G G A G A G B A A G G G G G$ A GACAGAGACCGAAAGAAGGGGGAAGAAAGGGGGGBABAABA AAAAACCAAGGAAAACAAAGGGGCCAGGGCCAAGGACGAGGA ACCGAAGAGAAGGCAAAGATAGAAAAGAAAAGGGAGGAGCCG A GAACCCAAGGGGAAGGGGACGGGGGGGGAAAATTAGAAGAG GAAGAAGAAGGGGGGGAAAAGGACCGAAAGGGAGAGGACGAA G G G G A A A G G G G A G G GAAAA A G G G GACTTGAAAGAAA G GAAAAAA A G G G G A A G A A A A G A A A C C C A A A A C C A A G G G G G G G G G G A G G G G GCAAGAGGGAAGAGGAAAGAAGAGAACGGCCAACCAAGGGGA G G GAACCAAAAGGGGAAGAGGCCAAAACCGGCCCCAAAAAAA G GAAGGGAAACGGTTACGGACAAGGGGGGAAGAAGGG
GAGAAGAGAAGAAACCGGGGGGGGGAGGAGAAGGGBABCAG G G A A G G A G A A G G A G G A G G A G A A GAA A A A G A A A A G G A A A G C A G GAAGGGGAAAGGGAAAAGAGAGAAGGGAGGGACAAAAAAAGA

GAGCAAAAAAAGGCAGGGGGGAGCCCCGGAAGGGGAAAAAAA A A A G G G G T T G G A A G GAA $A \operatorname{GGGGAAAAGAGGACAGAGAGCAAGA}$ A A A $\operatorname{A} A \mathrm{~A} A A A G G G G G G G G G G A G G G A C G A G G G G G G G A G G G G C C G$ GAATTGGAAGGGGAAGAAAGGGGGAGGAGAGGGACGAAAAAG G G GAACCAAGGAACCGGAGAAAAAAAAAAAACCAAGGGAAAA A A A C C A A A A G G A A G A G G A G G G G A G G A G G G G A A G G G G G C C G G A A G GCCAAGAAGGAGGGGGAGGGGCCAGAAAACCCCGGAAAGAA $A G G G G A G G G G G A G G G G G G A A A A A G G G A G G G G G G A A A G G A G G G$ G G G A A G G A A A A G G A A G G A A G G A A GAAGAAAGGAAA G G CA A G A G GAGGAAACAGAAAGCAGGAAAGCAGGAGAGGGAACCGGGGG GCCAGAAGGGACAAAAAGGGGAAAAGGGGAAAAAAGAGAAAA A A A C C C C G G G G G G T T G G A A G G G G A A G G A G G A A $\mathcal{A} A \operatorname{A} G G G G G G C$ C G G G G G G C A G G G G G G G GAAAGCCAGAAAACCAAAA G GAAGAAA A A A A A A GAAGGAAAGCCGGAAAAGGGGGGGGGGAAAGAAAAA GAGCCCCGGGAAAGGGAAGGGGGGGAACAGGGGACGAAAGGG G G GAGGGAAGAGAGGGGAAAAAACCAAGGGGACGGAGGGGGA GACAGAAAGAACCAGAATTAAAAGGGGGGCCGGAAGGAAGGG G G G G G A A A A C C C C A A G GAA $A \operatorname{GAAAGGGGAGAGGAAACCAAGGG}$ GAACCGGGAGAACGGAAGGGGCCGGGGAAGAGGGGAABACAA C G G G G G G G GCCAACCGGCCAAGGAGAACCAGAGGGGGGAAGAG $G C C C A C G A G A A A A G A G G G A A G A G A G G A A G A C A A A A G G A A A C A$ G GAAGGAAGACCCAGGGAGAAAGGAGGAGGAGGCAAGAGAGA
 GAAAAGGAACCGGAAGGCCGGGGGGGGAAAAGGGGCCGGGBA A $G G G G A A G G G G G G A A G G A A A G A A C C A G G G G G G G A A A A G G G G G$ G GAGGGGGAAAGAAGAAGAAAGAGAAGAGAAAGCCAGAGGGG G G G GAAACCGGAAGAAAGGGAGAAAACAAAAGGGAGGAGGGA GACAAGAAGGGAACCAAAAGGAGGGGAGAAAGGAGAGGGGGA A G G A G A G A A T T G GAGCCAGGAGGAACCAAGAGGAGAAAAAAA G G G A A A G G G G G A A A A A A $C A G G G G G G G G C A G G G G T A A A G G G G G$ GAGGGCCAAGGGGGGGGCCGGAAGGAGGGCAGGAAAACAAGB
 A G G GAAAGGCCAAAAAAGGGGAAGGAAAGGAAAGAGAAAGAT T G GAAAA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A G A A A C G G A G G G G A G G A G G G A A A A A A G G G$ GAAAGGGAAGGAAAGAGAGACAAGGCCAAGAGAGGGGAAAAA A A A A A G G A A G G G GCCGGGGCCGGCAGGAAGGAAAA GGCC G G T TAA A GAACCGGGGAAAAAAAAGAGGGGGACGGAAACCGGGGA AAGGGAAAACAGAACAAAAGGAAAACCAGCAGGAAAAA GTAA C G G G G C A G G A A G G A A GACC G G G GAAAA A GACCC GACAAA G G C CAAAAGGAACAGGAGAGGGGGAAGGAGCCGCAAAAGAGGGGG GCCAGCACAGAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAAA ATTAAGGAACAAAGGGGGGGGCAGGGAAACCAAAAAAGAAGG GAAGGCCGACCGAAACCAAAACCAACAAAAGAAGGAGGGAAA G G GAA $A \operatorname{GCA} A C A A A A G G A A A A G A A A G G A A G G G G A G A G A G C A C$ A G GCCGGCAAAGGGAAAAAAAGGCCGGGGAAAAAAGAAAAAA A A A G G A A A G G A C C G GCACCAGAAGGGGGGAGGAGGGAACAAA GACAAGGGAGGCCCCAAACCGGAAAGAAAGAAACCAAGAGAG A A A A A A A A A A G GAAGGGCCCCCAAAGAGGAGGGGGAAAAGAA GAGAAGGGGGGGGAGAAAATTGGGGAACCAAAAAAGGAAAAC CAAGGAAAAGGGGAATTAAAAAAGGAAAACCAAGGACCAAAA A A A G G A A G G A A A A G GAGAAAGAGCGGGGGCATAAAAAAACAG $G G A C A A A G G G G A A G G A A G A G G G G A G A G G G C C G G A A G A G A A G G$ G G G A A A G G G A A G G G G A GCGAGGAGAGCAGAGACA G GAAAGAG AACGGGGCCCCGGAGGACCGAAGGGGGAAGGGGGGGGGAAAG GAAGGAAGGGGAGGGAAGGGGAAGAGGGACCAAGAAGCCGGG G G G C A G A C A A A G G G GCCAAGGGGGATAAACCAGCACAGAAAG GAAAAAAGGAAGGGAAAAACCAAGAAAGGAGAGGGGAAAACC C C CAACAAAGGAAGGGGGAAGGGAAAAGGAGGGGAAACAAAA $A C A G G A C G G A A G G C C G G A A A A A A G G G A A G A C G G A A A A G A A A G$

GAAGGCCGGAACCGGGGAAAACCGGGGGGCCAGAAGACCTAA A A A A A A A G G G G A A A G G A A GAA $A$ A A G GAAGGGAAAG GATCAAAA A G G G GACAACCAAGAGGAAAAGAGGAGAAAAAGGGAABAGGC C G GAA A A A GAAAAAAGGCAACGGCCAGAGGATTAAGACAAGC CAGGAAGAGCCAAGGGGACAATAAGAAAACCAAAAGGCAAGG GAAAAAACCAGAAAAGGGGGGAAAAGGGGAAAAAGAGGAACB GAAAAAAGAGGGGGGGGGGGGGGAAAAGGAAGGGGGAAAAAG GGGGGAAAGCCAAAACCAAAAAACCGGGGCCGAAGAAGAGGA
 GAGAAATGGGACCGGGGGGGAACGGGGAAAGAGCCACGAAAC A GAGAAACCGGAGAAGGAAGGAACCGGGGAAAAGGAAAAAAG
 AAACCAGGGAAAAAAAAGGCAGGAAGAAACCGGAAAAGGCCG AAAGGCCAACCAGGAGGAGAAGGAAGGCCGGAACCGGAATTG GGGCCAAGGAGAAAAAAAAAAGAGGAAAAGGAAAAGAGACCG GAGGGAATTGGAAAAAAGGAAGACCCCGGGGCCGGAAGGTTG GAGAAAAAGGGGCAGAGAGAAGGAAAGAGAAAAAGGGAAGAA A G G G G GAAAAAAGGAAAGAAAGGGGCGGAAAAAA GAAAGGGG AAAAAGGAAAATAAGAAAAAAAAAACCGAAGAGGAGAACGAG G G A A A G G G GAA $A \operatorname{GGGGC} C A A G G G G G G A A A A G A G G G G A A C A A A A$ G G GA $\operatorname{G} A \mathrm{~A}$ G GAGAACAGAAGGAAGAGAGAACCAGAAAGTXAAG G G G A A A A G G G G G G G GAAAAAGAAACCCACAAGAGGGGAACC G G G G G G A G G A A A C C G G G GAGAGGAGGGGCCGGAAAAGGGAAAA A G A G A A A A A A G A A G G G G A GAGGGAAGGGGAAGAAAGGAACA $A$ G G G C A G G G G G A G GAAAA A G G G G GAAAAAAACAGAAAAAAACCG A G GAAAATTAAGGAAGGGAGGAAAAGGGAAAGGAAAAAAGGG GTTAGGGGGGGCAACAGGAGGCAGAAGAACAGAGGAGGACCA G G G G G A G G G A A GA G GAA $A \operatorname{GGGAAACGAACCGAAAAAGAAACCC}$ C C CAGCAA GAGCAAGGGTTGAAAAAAAGGGGCCGGAAAAGGG G G G A A C G A A G G G G G G G GAACC GAAA A A A G GAGAC GAA G GAC G G AAAAAAAAAGGAACCGAGGAAGGAAAAAGGAAAAAAGAGAAG G G G G GCCGGGAGAGCAAGGGGGGAAAGGACCGGGGAAGAGAA G G G G GCAAGCAGGAAGAGAAGAGACCCAAAACCAAGAGAAAA GAACCGGGACCGGACCCGGGGGGAAAGAGACCCCAGGAGACG GAAGGGACCCAAAGGAAAAAGAAGGGGAACAAAGGGAAAGGG GAAAAAATTGGGGGGAAAAAGAAGGAAAAGGGGAAAAAAGAG GAA A A G GCAGAA $A \operatorname{A} A G G G A A C G A G G G G G G A G G A A A A G G G G A A A$ GAAGGGAGAGACCGAGAGGGGGGGGCCGGAAGGA$G A A A G G G G$

 A G G G G G GCCAGCAAGAAGGAGGAAGGGGGGGCAGAGAGAACA
 GGAAAAGCCGGAAAACCCCGGAACCGGGGAAAAGGGGAAGAA A A A A A A A G G G GCAA $\mathcal{A} G G G G G A G G A G C C A A G A G A G A G G A A G A G$ A A A C A A A A G GAGGAAAAAAGGGGGGGGAAAAAAAGCCAAAAC CATAGAGAAAAAAGAGGCCGGCCAAAAGGCCAAAACCAAAGC
 AGGGGCCGGGGGGAAGGAGAAAACAAAACCAAGGGAGAGGGA GCCGAAGAACAGGAGAAGGCAAAGAAAAAGGCCAAAAAAAAA AACAGAGGAGGGAGAACGGAAAGGAGGAACGAAAAGGGAGAA AAAAGGGGAGGGGAAAACCAAGAAGGACAGGAGAAGGAAAAG G G G G GAAGGAAAAGGAGAGGAAGCCAAAACAAAAAAGAAGAG GCCGGCAGACCGAAGGAAAAGAAGGGGGGAATTGGGGAAGAC AGACCAAAACCAAAAAATACACAAACCGAGGAGGAGGAAAAG A GACCAAGGAAGGGGGGAAGGGGCCACGGCCGGAAAAGAAAG GAAAAGGAACCCCAAAGGGCCCCGAGGCAAGAACCGG
G GAAGGAGAGACCAGAGAGGAAAAGAGGGGGGAAAAAGAAA GAGAAGGGGGGGAGGGGCCAGACGGAGAGGAAAGGAACAGAG $G C C C A A A G A A A G G G G G G A C A A G G G G C C A G A G G G G G A A A G A A G$

G G G G G G GAAAACCGGAAAGAGGGACCAGGGGAAAAGGCACCC
 $A C C G G G G C C G G A G A A G A A A G G A G C C G G A A G G G G A G A A G A G A G$ G G G G G G GAAGGAAGAGAGAGGCCAGGGCCAAGGCCGAAACCC CAACCAAGGCAAAAAGAGAGGGGGGGGGGAGAAGGCAGACAC C C C G A A A A G GCGGCCGGGGACAGAACCGGAAACAAAGGGGGA GAAGGACAAAACGAAAGGAGAAAGGAAGGGGAAAAGGGAAAT TAAAGGGGGGAAAATAAAACAGAGGAAGGGGGGAGCAGACAG GAACCGGGGAGAAAAGGAAGGAAGAGGGGACATAACCCCGGC CAAGGGGAAAAAAAGGGGGAGGGGACAGGAGGAGAAGGAGGA A A G G G G GCCAGAAAAGAGGAGGAAAAGGGAGGAGGAGAGAAA A A A G G GCGGGAGAAAAAAGAGGGAAAACAGGCCAAGAAAAAA $A C C G C A C A G G G G A G G A G G G A A A A A A A G A A C C A A A A G A G G G G G$ A A GAAAGGGAAAGCAGGCCAGCCGGGGGGGGGGGGAGAAGAG G GAA A GAGGGAGGAACGGGGGAGAGGGGGGGGAGAGGCACC G GAAAAAGGAAAGAGGCACAAAAAAAGGGGGAAAGAAGGGGGG G GAAA $A \operatorname{A} A A \operatorname{A} G \mathrm{G} G A A \operatorname{A} G A A G G C C G A A A G A G G G A G A A G G G G G G$
 AAAGGAGACGGAAGGGGGGACGACGAAGGAGCCGGACGAAAA A G G A G A A A G G G GAC CAA $A \operatorname{A} G A A G G G G G G A A G A A A A A G G G A A G A$ $A G G G G G A G G G G A G A A A G A A G A C C G G G G A G A G G G G G G A A A A G A$ A G G G G GAGAGAGACCAGAAGAAAGGACGGAAAAAGGGAGCAA A A GA A G G A GAAAGAGGGGGGGAAGGGGGGGGCCGAAAAGAAA GAGGGGGGAAGAAGGAGAAAAGGGGAGAGGACAGAGACAAAG $G G G A A A G T T G A A G C C G G A G A A A G G G G A G C A A A G A A A G A A A A$ A G G G GAACAAGGGAAAACAAAAAAAGGGAAGAAGAGCAGAGA ACCGGCCGGGGAAAGGGGGAGACAGAAGGAAGGCCCCAAAAC


 G G G G G C C A A G G G G G G C C G G A A G G G G C C G G CA A A C C A A G GAAC AACGGACAAACAAACAGAATAAAGGACAAGAAAAAGGAAGGG G G G A G G G A G T T A A C C G G G G G G G G G G G G A A G G G G G G A A A A G $G A$ A GAA A A G G G GAGGAGAGGGAGAAAAGGCACAAAAGAGAAGAC CAAAGAAAAAAAAAGCCGGAAAAAAAAAAGGAAAGAAAAAAA A G G G G A A G G G GCCAA $\mathcal{A} G G G A A A A A C C A A A A A G A C A G A A G G G G G$ A GAGAGGAGAGGGAAGGTAGAAGGAAAAGAGAGAAAAGATTG A A A A A G G G G GATTAACCGGCAGGAGAGAACCGGGGGGTTAAG GAAAAAAAAAAAAGGAAAAGGGGAAAAGGAAAAAAAAAAGAA $A G G G G A A A A G G G G C C G G G G G G A A G G G G G G G G G G A A A A A A C C G$ G G G G G G G A A G G G G A A A A A A $\mathcal{A} G A A G G G G A A G G G G A A A A A A G G T$ TAAAAAAGGAAGGAAGGCCAAGGCCCCGGAAAAAAGGGAAAG G G GCCGGCCAAAACCAAGGAACCAAGGGGAAAAAGCCGGGGG G G G A A G G G GAACC G G G G G GCCAAGGGGAAGGAAGGAAGAAAC C C C A A C C G G G G A A A A $\mathcal{A} G G G G G G G G G A A G G G G A A G G A A G G G G A$ A G G A A G G A A G G A A C CAACCGGAAAAGGAAGAGGAAAACACAA A A C G G G G G A GAGAAGCGAGAAGAAAAGAAAGAAAAAAGAAAA ACCAAAAGGAAACCAAGAGGGAAGAAAGGGGGGGGAGCAAAA GAGGGGGAAAGGGGGGGAGGGAGGCGGGGAGGGCCGGCAAAA A G G A A A A A A G G GAGGGAGGAAAGAACCGAAGAGGGCCAGAAG GAAGGAAGAGGAAGAGGCCAGGAAACCAGAGCCGGAAGAAAG GAGAAAAAAAAAGGGGGAAAAAAAAAAAACCAAAACCGGCCA A A A G G A A G GAA $A \operatorname{GAA} A G C C G G A G A A A A A A A G G G G G G A A A C C A$ A A A A A A A G G G G GAGGAGACTAGAAAAAGGGGGAGGAAAAAAC AAGGGAAGGAAGAAACAGACCGAAAAAGGAACGAAGAAACAA C C C G A A G G GA G G GAAACAGAAGGCAAAGGGACCCCGGGGGGA
 $G C A A A G G A G G A A G G A G A G A A A G G G G G G A A A A A A A A G G G A A A G$ GGGGGAACCAAAACCAAGGAAAAAAAACCGGCCAAAGAAAAG

GAGAACCAAGGAAGGGGGGGGAAGAAACCGGGAGGGAGAAGA A A A A A GACAGAGAAGAAAAGAAGACAACGGGGGGGGACACCG GGGAGAAAAAAGGGGAAAAAAAAGAATTTCCAACCGGCAAAG G G GAGAACCGGGAAAGAAAAAAGGAGGGGGGGAGGAGGACCT TAA A A A A G GAAAAAAGGAAGGAAAAGGGGCAAAACGAAGAAG GAAGGCCGGAAAAGGGGAGCCGGGGGGAAAGGGAAGAAAGAA A A A A A G G G G G G A A G G A A A G G G A A A G CA $\mathcal{A} G G G A A A A G G G A G G G$ G G G G GAAAAAAGGGGGGAAGGAAGGAAGAGAAAGGGGCAAAC C G A A A A G C C GAGGGGAAGGGGGGGGAAGAAAAAAAGAAAAAG G G GAAGGGGGGCCAAAGCCGGGAAGGACCGGAGAAAAAAGAG $A C C A G C C A A A A A A A A A A G G A G G G A A A G A G G G G A A A A G G G G G G$ G G GAAAAGAGAGGGGACAGGGCCAAGGACAGAAAAGGCAAAA AAAGGGGAAAAGGGGAAGGAAAGAAAGCCGGAGGGGGAAAAA G G G G G T T A G G G GA G GA GAGCCGAC CAAAAAGGGAACAAAGGG G G G G GAAAAAACCGGGAAGAGGGAGAAAAGGAA GGGGGAAAG A G GAGAAGAAGAAAACCGGGGAAAAAAAAGGGGGCAGAAAAA A G GAAAGCCAAGAGAGGAAGAAAAGGGCCAAGAAAGAGAACAA A G G A A A A G G G G G G G G G G A G A G G A A A C C G C G G G G A A G G A G A A A GAGGGGGACCGGGAAACGAAGGGGGGGAAGGGAAAAAAAAG GAAAAAGAACCGGGAAAAGAGGAGGAGGAGAGAGAGAAGAGA AACGAGAAAAAGAGACCGAAGGGAAGAGATAAGACACAAGAA
 G G GAA A A G A A G G G A G G GAAAAAACAAAGGGGAAAAGGAATTC CACAGGGCACAACCCAGCCGGGGGGAAACGGAAGAGAAGAGC ACGGAGGAGAACCACGGAACCGGAAGAGGAAGGAAAGAAAGB G G GA $\operatorname{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A \mathrm{~A} G \mathrm{G} G A A A A A G G A G A G C A G G G G C A A G G G G$
 GAAGGCCGACCCCGGAAAGAAGGGGCCAACCAAGGGGAGGGG GAGTTA T (AAGGGGAAAAAAAAAAGAAGGGAAAAGGAGGAAAA GTTGAAACAGAAAGGAAAAAGCAGAAAGGAAGGGAGAAGCCG G G G GAAAAGCCCAGAAGAAAGAACCGGACGAAAGGCCAACCG G G GAA A G G GCCGAAGGAGGGGGGGACCGGGGGGGAGAACCAA
 A G G A C A G G G A A G A G A G G G A A G A G A G G G G G G G G A G G G G G G G G G GAGAATTAAGGAACCGGAAGGCCGGGGACGGAAGGAAGAAGA G GAGAGGACGGGAAAGGACGGAAAGAAGAGAACAAAGCACCG A A A A GAGGGGGAAGGGGGAGGCCGGAAAGGAAGGGAGAAAAG GAAGGAACCCAAACCGGAAAGAGGGCCAAGGAGGGGAGGGGG GAA A A A A G G G GAA $A \operatorname{A} A A A A A G G G G G G A G A G G G G G A A G G A A G G G$ A G G G G A A A GAGAAAGAGGGGAAAGGCCAAAAAAGGGAA GAAA A G GCAGGAGGAATCCAAGAGGAAAAAAAGAGGGGGAAAAAAG G G GAAAAGGAGCCAAAAAAGGGGAAGGGACCAAGGAAAAAGG G GAGGAAGGGGAGGGCAAAGACAAAGAAAGGAAGGAAAGGGC A G GAAAGCCGGAAAAAAATAAGGGCGACACAAGAGGACAGBA A G GAACCGGTAAGGGGGAAGAAAAAGACCGAGGGAAGCAAGB A G G A A A A A G GAGGAGAGAAGAGAAAGGAGGAGGGGAAAAAAA A G G G G G G G GAAAA A A G G C C GAGGGGGAAAAAAGAA AAAAG GA C G G G G GAC $\operatorname{CAA} A \operatorname{A} G A A A A G G A G A G A G A G A A G G G G G G G A G G G G G$ G G GAA A A G GAA $A$ A A G G GAC G GACAAAGGAGGCCAACC G GA GA A G G GAGGGGAAGGGGAACAAACAGGAGGAGAAGAGGGGAAGA G G G G G A A C C G G A G G A A A G G G G A G G G C A C C G GA G A G G G G A G G G A GAGAAGAAGACCGGGGAAACGGAAGGGGGGAAAAGGGAGAA G GAG $\mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{G} G A C C C C C G G G G G G G A A A A C G A A G G G A A C X G$ G GAGGAAAGGAGGGGGAAAGGCCAAAAGGGGAAAAAAAAAGG A A GAGGACCAGAAGGGGAAGGGGCCGGCCGGAAGGAACAAAG A A A C C G G G G A A G G A GCCA $\mathcal{A} A G G A A G G G G G G G A G A G A G$

 G G G G G GAGGAAGAACCCAAGAAGAGGGGACCGGGGAGAAAAA

GAGAACCAAGGAAAAAAGGAAGAGAGGAGGACCGGAACCGGG A GAGGAAAGAAGGGGCCAAAAGGGAGGCAAAGAGAGAAGCAA $G G A G G G G A A G G A A G G G G G A A C A A C A A G A C A A A A A G A A G G G G G$ GCCCCGAAAAAAAGGGGGGGGAAGATAAGGAGGGGGGGGTTG GAGGATAAGCAAGAGGGAAGGGGGAAAAGAAAACCGGCAAAG G G GAAAACCAGAAAAGGGAGGGGAAAGGCGGAGAGAGGAGAA A G GAGCCAAAAGAGGCAGACCACAGAGAGAAAAGACCAAABA CAAAAGGGGAAAAGGAGCCGGCAAGAAAAAAGGAGAGGAGGC A A A G G A A A A A A T T A A A G A G A A G G T T A A G G G G C C A G G G G G G C G G GAAAAGAGGAAGGGGGGGAAAAAAGGAAAAAGGAAAACGGA
 $A C C G G A A C C A A G G G G A G G G G G C C A A A A A A A A A A G G G G C C G G G$
 G G G G G A G A GA G GACAAAGACAAGGGAGAAAGAGGGGAA GAAA GCCGGACAAAGAAAGGAGGGAAGGGAATAGGGGATGAGAGAA GAGAGGGGAAAGAACGGAAAGAAGAGAGGGGAGAACACAAAG GAAAAGGAAAAGGAACAAGAAGGAAAACCGGGGAAAACAGAA A G G A A G G G G GAAAGAAAGAAAAGAGGGAAAATAGGCAAAGAA AAGGGAAAGAGGAGGAAGGCCCCGAATAGGAGGAAAAGAGAA A G A A A C A G G G A C C G G G A A A G G A A A A G GCCAAGGAAAAAAACA CAAAAAAGGGGGGGGAAGGGGGAGGGGGAAGAAAAAAGAAAG
 A A G G A A G G GAAA A A A A A G G G G G A A A A A G G C C A A A A G G G G G A G

 A G G G G G G G G G G G G G G G A A A A G A A G G G G A G CAA A A G A A A A G G A AAGCCGAAAAGCAGGAAAAGAAAGGAAGGAAAAGGAAAAAAG A GAAAGGGAGACCATACGGAGGGCCGAGGGGGAGAGAGAAAA A GACAGGGGAACCAAAAAGAAAAGGGAAAGGGAAGGAGGGAA AAAGAAGAAAACAGGACAGAAGGCCAAAAAGGGGAAGAAGAG GAAAAGGAAAACCAGGGGAGAGAAAGAGGGGGGAACCAGAGG $A C C G A G G A A G G A G G A A G G G C C G G G G A A G A G G G G A A A G A A A G A$ A G GAAA A A $A \operatorname{Ag} \operatorname{A} \operatorname{A} A A A G G A A G A G G A C A A G G G G C C G G G A A A A A A$ C G G G G GA GAG G G GAGAAAAAGAGAGGAGGAGAAGGGAAAAAA ATTACAGAAAAAAAAAGAGGAAGCAGGCCGGGGGGGGGBCAA A G G A G G G G G A G A A G G G G A G A A G A G G A C G A G G G G A G G G A A G G G GAAAACCGAAAAAGGAAGGGAACCCGAACGAGGGGGAGGGGC CAGGGGAAGAGGGGGGAAGAAAAGGGGAAAACCGGCAAGAAA A A G G G A A C C G G A A G GAAAA A G GAAAAACGAAACCGGGGGGCC G G GAGGAAAGGGAAAAAAGGCCGGGGAAAAAGAGCCCACACAA A A A A A A ACAAACCGAAAAAGGAGCCGACCGGAGAAGGAAAGG G GAGGAGCCCCAAGGAAGAAGAAGGGAAGGGGGAGAAAAAAA GA $\operatorname{G} A A A \operatorname{A} A A G A A A A C G G G A G A G G G G G G A C G G G G G G G G C A A A G$ G GAA $A \operatorname{GAA} A A A G G G G A G G A A A G G A G A G C C A A G G A A A G A G G A A$ GAAGGGGAACACAAAGAAAGGGGAAAGAAAGGAGAAGAGGAC A GAGAGAGAGAAAAAAAGGAACCCCGAAGGAGAGGAAAAA GA A A A A GAGAAAAAAGGGGACAGAAGAGGAAGAAACCAAAACAG
 AAAAGGAGGGGGGAAAAAGAGAGGGGGACAAAGCCAAAAAAA AAAGGGGAAGGAACCAGAACCAAAAAGGGAAAATTAACCCCG GAACCAAGAAGGGGGGAGAATCCACAAGGGAGGAAACTXAGG GAGGAAGAAAAGGAAGGAACCGAAGGAAGAGAAAAGAAAAAC C G G A A A A G G G G A A G G G G A A G G C C G G G G A A C C A A G G G G A A C C C C GAAAAAAGAAGGAAAGAAAGAGGACAAGGAGAGGGACAACC $C \subset C A G C A G G A A A A A A A A A C G A A G G A G G C C A A A A G G G G A A A A G$ G G G G G A A G G G G G G C C A A G G A A G G G G A A C CAACCCCCCAAC CA AGGCCGGAAAAAAGGAAAAAAGGGGAGGACCGAAAAAAAGAA $G G A A G G G A A A A G G G G A C G G G G A A A A G G G G G G A A C C G G G A G G C$ CAAAGGGAAATAGAGAAGGGACCGGAAGGGGAAGAAAAGAGC

C G G G GACAAAAAAAAGGAGAGGAGAGGAAGAGAGACACACAA
 C GAGGCCAGAGGACCAAGGGAAAGAAGGGGGAAGGAAAAGGG GAAGAGAGGAGACAAAAGGAACAAGAGGAGAAGGGAGAAAAA GAAGAAAGAGGAACCGAAAGGAAAAGGCCCAGAGGGGAAAAA A A A A A GACCAGAACCCCCAAACAGAAGGGGGTTAAGGACAGA G G G G A A C G G G A G G A A G G A G A G C A G A G G G A A G G GA G G A G A G A A GAAGGAAAAGGGGGGTTAAGAACAGCAGGAGGGAAGGGAAAG G G A A G A G A A G GCCAAACGGGAGGGGGGCCGAAAAGGGGAATG AAGAAAGGGAACCAAAAAAGAGGAGCAAAGGACAAAACCGGA
 AAAAGGGAAGACATTAAGAAGAGGAAGAGGAGGAAAGAAAAG GAAACAGGGAACCCCAAAAAAAAAAAAAACCGGGGGAGAGAA GAAGGGGAAAGGACAAGGACAAGAGACGGAAAAGGAGC G GAAA AAAAAGGAGCAGAGGAGAGGACAAGAAGGGGGGAAGGAGAAC A G GCCAAAAAAGGGGAAAAATGGGGAAGGAGAAGGGAGAGAG
 A A C A TA G A A A A G GCAGATTAAGGAGCAAGAGCAGAACGGGGG GGGCCGGGGAAAGCCAACCGGAAAAAAAACCGGAGGAACAGA G GAGAGAACAAGGGGAAGGCCGACCGGCCGGAGGAAGGAAAA G G GCCGAAAAGGGAAAAGGGAAAAAGAGGGGAAAAAGAAAAG
 GAAGGAACAGGAAAAAAGGGGAAGAAGACACAGAAGGGACAC CAACCACGGGAGGGGGGAAAAGGAGCCGAGGAAAACAGAAAA A GACCAAGAAAGGGAAACCCCGGAGACGGAAAAAA GAA G G GAA $A C C C A G G G G G G A G G G G G A A G A G G A A G A A G A A A G G G A A A C G G G$ G G GAAAGGGGGAAGAAGGGAAAAAAGGAAGGAAAAAAAAAAG G G GAGAGAGAAAGAAGAAAAGGGGAAAGAGAACCAAGCAAAG GAGAGCAGGGAGGAAGGGAGAAAGGAACCGGAAAGAGAACAA GGGACAAAGGAGAAAGGACGGAACCGAGAGGGGGAGGCAAAA A A A G A C C A G G A G G G G A G G G G G G G A A A A A A G GAA $A \operatorname{G} G G G A C C A$ AAA A GAAAAAAGGAGGGAAGGAAAAGGAAAAGGGGAGGGAAA G G GAAAAAAACAACCGGAAGGTAGGCCAAAAAACAGGGAGAG AAAACGGGGAAAAAACCAAGACACCGGACAAAAGGGAGAAAA G G A A A A A A G G GAACCCCAGCCGGAGAAGGGAAGGGGGCAA G G G G GAACCAACAAGAGAAGAAAAAAAGGAACCCCGGAGAAAAA
 A G GAGAGGGGGGGGGCCAACCAAGGGAGGGAAAGGGGGGGGA A G G G G A A C C C C G G C C G G C C G G A A G G G G A A G G G G A A A A A A G G A GCCGGAGAAGGAACCAGAAAGAACCCCAAGGGAAGCCCAAAC A GAAAGGCAAAGAACGGGAAGGGGGGGAAGGGGAAAACCGGG
 $A G G G A G G G G A G G A G A G A G G A G A G A A G G G A A G A A G G A A G A A A G$
 G G G G G G G G G G G A G G A G G A A G G A GAGAAGGAAGAAA A A A A A A G A
 GAGCCAGGGAAGGGGCGAGAGGGCAGGAACCGGGAGGAAAGG GCCGGAAAAAAAAGGAGGGAAAAACAGCAAAAAAAGGGAAAG G G G G GAAAAAACCCCACGGCCAACCAAAAAAAAGGAAAAAAA AAAGGGGGGAAGGAAAAAAGAAAAGAAAGTTAAGGAAGGGGA GAGAGAGAAGGAAGGACAAAAGGAAAAGGGGGGAAGACAGAAA GAAGGGAAGACGGGGGAGGAAGGCCGGGGCCAAGAAGAAABC ACAAAAACCACACAACAGAAAACAGAAAAAAAAAAGGGGGGGG $A T A G G G G C C G G G G G A C C G G A G G G A A G G A A A G A G G G G G C C A A A$ ACCGAAAGGAACCCCAGAAAAAAAAAACCAACCCAGGAAAAG GAAGGGGAAGGGAGGCCGGCCAAGGGGAAAAAAAAAG
AGACGGCCGGCAGGGGCGAAGGGGGCAACCGGGGAGAAAAG GAAAAAGCCGGGGGAAAGGGGAGGAAAAAAGAAAAAACCGGG $G G G A C G G A A G A G A A A G G G G G A A A G G G A G G A A G G A A A C A A G A G$

GAGGGAGAAAAGGACGGAAAGGAGAAGAAGGGGAAGGAAGAA A A GAGAGGGAGAAAACCAGAAAAGAACGAGGAAAGGGCCGGA CAAAGGAACGGAGATGGAAAGAAGAGGGGGAGGGGAAAAAAG G G G G G GAA $A \operatorname{GA} A \operatorname{GA} A A G G G G A A G A G A G A A A A G A G G C C A A A A G$ G G G G A G G G A G G A G G G G G A G G G G G G G G G A G G G G A G G G G A A G $G A$
 $A G G G G G G G A A A G G A A G A A G G G G G C C G G A G G C A G C C A G A G G A G$ $G C C A G G G G A A A G A A A G G A A G G A A A A A A A A A A C C A A A G A G A G G$ G G G A A G G G A A A C C G G G G G G G G A A C C C C G A G G G G A G G G A G C A A GAGCAAGGGAGAGGAGGCCAAAAAGAGACGAAGGAGAGAGAA A A G GAA $A \operatorname{G} G A A G G G G A A A A G G G G A A G G A A C C G G G G G A A G A A A$ AAGCCAAAAAGAAGGGAAGAGGAGAAAAAGGGAAAGAAGAGG A GACCGGGGGGAAGAGAAGAAGAAACCGAGGAGAGCAAGGGG G G G G G A A G G G G GAA A A A C C G GAAAGAAGGAAAAAACCCAGGA $A G G G A G G C C G A G A G A A G G G G A G G G G G G G A A A G G G G G A G A A C B$ AAAGGGGGGAAGGGGAAGGGGAAGGACAAGGGACAGAAAGAA GACGAGAAAGGAGGGAAAAAACCGGAAAAGAAGCAAGAGGGG GCCGGAAGGAAAAGAAGGAAAGGAAGGGGAAGGGGGAAGAAA AAAGGAACGGGCCAGAGGAGAGGGGGAAGGGGGCAAGGAAAG G G G A G A G A G A A GAA $A \operatorname{GGGA} G A A G G A A A A A A G A A A A A G G A A G G A$ AAAGGAAAAAGGGAAGGGGAGAATTGGAAGGAGAAAGACAC G G G GAAGATTAACAGAAAGGAAAAAAAACCGAAAGAAGAAAAG GAAGGGGAAGGCCGGAGGGGAGGGGAGACAAAAGACCAACAA GAAGGGAAGAAGAGGAGAAAACCCAAGGGGGAAAAACCAGGT A A C G A A A A GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A C A A C C G G G G C A G G G G G G C A G A A A A$ AAAAGGAAAAAGGAGAAAGGAGGGGCGACAACGAAAACAGAA GAGAAAGGGGAGGGAGGAACCAGAAGGCCGAAAGAAAGAGAG G G G G A G G A C A G A A A G G G G G G GCA $\mathcal{A} A G G G G C C G G A A A G A A A A A$ A GACACCAAGGGGGGGGAGTTGAAGAGGAAAAGACAACAA GA AAAGACGAAACAAGGAAAAGGAACCAAAAGGGGAAAAGAAAG G G G G G G G A G A G A A A A G GAAAC G GAAGGAAAACCAACCAAA G G GAAAAAAGGAAGGAAAGAGAACCAGGGGGAAAGGGCCGAAAC A G GAAA A A G GACCAAAGAGGAAGGAAGGGAAGAGACCTXGAA A A GACAAAAGGGGCCGGAAAGGAAGAAGGGAACGAAAABAAG $G G A C C A G A G A G G A G G G A G G C C A A G A A A A G G G A A A A A A G G G G G$


 GAAAGAAAACCCCAAGGGGGGGGGGAAAAGAAGGAAGAAAAA
 GAGGGACGGAGAAGGAAGGCCAAGAAAGAAGAGGGGAGAACA A G GAAGGGAAGCCAAGGAAACAAACGGGGAAAAGGAAAAGCC AACCACCGGAGAGGAGAAAAAAAGGGGAAACAAGAGAAGAGG A A G G G A A A A A A G G A C A GAGCC G G A A A A G G G GCCAA G GAC G G A $A G G G G G G A A G G G G G G C C G G A A G G G G A G A A A A C C G A A G A G A A G$ G G G A A A G G A G G A A C C G GAAAAGGCCGGAGCAGAAG GAA G G G A G G G A G A G G G A A G G A A G G G G A A G G A A A A A A $\mathcal{A} G G G G G A A G G G G G$ GAAGGGGCCAACCGGAAAAAAAAGGTTGGAAAAAGAGGAAAA $A C C C C A A G A G G A C A G G G C A G G G A G A A G C A A G A C A A A C A A A A G$ GAGAGAAGGGGAAAAGGCCAGAGAGGAAAGGAAAGAAAAGAA A GAG $A \operatorname{GA} A G G G G G G C A G G A A G G A G G A A G C C A G A A G G A A G G G G G$ GAAGGAGAGGGGATTACGAGGGGAGAGGGGAGGGGGGGAAAA
 CAGAAGGAAAACCGAGGAAGGAAAAGAGACGGGACAGAGAAG GACCAACAAGGAACAAGAAAGACGGGGGGAGCCAAAGAGAGA A A A A A A A G GCCGGGGAGGAAGACAACCAGGGCCAAAGAGAGA
 $G G A C A A A G G G A A C A G A G G G G A G G G G G G G G A A G G A A G G G A A A A$ $G C C A A A G A G G A A G A G G G A A G G C C A G A A G G G A G A A G G A G A A G A$

AAAGGAAGGAGAAGAAACCGGGAACGGAAAGGAAGGGGGGGG GCCGGAAGGAAGGAAAATTGGGGGAAAAAAAAAAGAAGGGGG GAACCGGAAGGGGAAGGGGGGAAAAGGGGCCGGGGCCGAAAC $C \subset C A A A A G G G G A A G G G G G G A A G G G A G A A G A A A A G G G A A A G A A$ GAGGAAGGAGGAACATTCCGGGAAAGGCCAGCCAAGAAAAAG GAAA A A A G GAGAGAGGGGCGGGGAGAAGGAAAAGGAACAAAG AA GCGAAAAAAGGAAGGGAAAAGAGGGAAGGAAGGAACAAAG GAACCAACCAGGGAACCAGGGGGGGAACCAAAAGGGGGGGGA G G G G GCC G A A G A GAAAAAAGGAAGACAGGAAGGAAGAGAGAG AGAAAAGCCGGAGGGCCAAAAGGAAAAGGAATTAAAAAAGGA A A A G G A A G G G G G G G G G G G G G G A A A A A A C C G G G GAAAAAA A $A$ A


 G GACAAAGGCCGGGGAAGGGAAAAAGGAAAAAAGGAAAGCCG GAGGGGGGAGAAAAAGGAAGACCGGGGGGGGAGGGCCAAAAC C C C A A G G G G G G A A A G C C G G G G G G A A G GAA A A G G C A G G C A A A C C G G A A T A G A G G A G A A A GAC G G A A A G G GAAA A CA G G GAG G G A A AAAGGGGCCAGCAAAGACCAAGGAACCCCACAGACGGAGAAG GAAAGAGGGGAAAACGGGGAAAAGAGGGAGAAAA GAAA GA GA A G G G G G GAA A GAAAAGGGGAAAAAGGGAACACAAACAAGACA ACCAAAGGAAAAAGAGGGGGGAAGAAAAAAAGGCCCCABAAA A GAGGGGCCAAGGAAGGGGACAGAAGGCAAAGGAAAGAAAAG GA $\operatorname{G} A A A A \operatorname{A} G A C A A G A A G A G G C A T G G A A A A A A T A A A A G G G G G G$ A A G G A G A G G A G A G A TAA A G G G G G G G A A A C A A G G A A A A G G A A G GAAAGAAGGGGAGGAAAAAGGCGATGAAAAAGGAAAAGAAAG G GAATAAAACCAAGGGGAGGGAGGGGGTTAGGGCAAAAAGAG GAACCAAGGAACACAGAAGAGGGCCAAAAAAAAAAAAGAAAA AAAGAACAAAAAACACAAAAGGAAAAACCGGGGAGAAGAAAAA $A C C A A C C A G C C G A A A A A A A G G G G G G A A G G A A G G G G A A G B C A C$ CAA $A \operatorname{ACCA} A G G A A A A G G A A A C G G A C G G G G G G G G G G A A A A G G G$ GAAAAGAAGGAGGCCAAGGAAAAAAAAAAGGAAGGGACCAGG GAAACAAAAGGAAGGGGAAAAAAGAGAAAGGAAAGGAGAGAA A A A G G G A A GAA $A \operatorname{GA} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A A G A G G C A A G C A C C C C G B A$ A G G A A A G G GAA A $A$ A A $\operatorname{AAGGGCAGAAGGGAAAAAAGGAGAAGAA}$ ACAGAGGGAAGGGAAAAAAGGAAGGGGAGAAAAAAAGGAAAA G G GAGCCAAGGCACCGGGGGAAGCCACGAACGAGGAGGGGGG G GACGAAGGAAAGGGGGAAAACCAAGACAAAACAGCAAGAGA C G A G A G G G A G G G G G G A A G G T T G G G G G G G G A A A A G G A A G G G G A
 G G G G G A A A A G G G C A C G G G G G G A A A G GAGGGAGAG GAA G GA G G A G A A A A A G G G G A A A G G G A A C CAAAAACGGGGAAAA GAA GA G C CAAACGGAAAGGCGGTTAGAAAAGGGGCAAAAGAGGGAACCG GAAAAGAGGCAGGCCGGGAGAGGAGAGGGGGAAGGAACCGBA A A G G A A G A A C C G G A C G GAGGAGGGGCCGAAAAAAAGGAGCAA ACACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAA A A A A A A A A A A G G A A A CA $A$ A G G G G A GCCAGCAGGGGAGAAACA A GAGAA $A G G G G A A G A A G A A C C A A G G A G G G A G G A A A A A G G A G G$ GCAGGAAAAGGAAGGAGGAGGGGGGGAAAGAGAGGGAGATAA CAAGGGAAAAAAAGGAAAGAAAAACAAAAAAAACCBAAGAAA $A C C G A A A G G G G G G G G C A G A G A A G C C A G G A G G G G A G A G A A A A A$ AACAAAAGGCCAACAAAGGCAAAAAAACAGGCACAGGGAABAA GAAGGAATTAGAGCACACAACGGGAGGAACCGGGGGGCAGAG $A C C A A G A G G A G A A A A A A G G A G G G A A G C G G A G G C A A A A G A G G G$ G G GAA $A \operatorname{GGGA} G G A A A A A A A A A G G C C G G G G A A C C G A A A C A A A C$ CAGTTAAGGGAGGGGAAGGAAGGAAAAGGGGAAGAAA
A A G A G A A G A A G A A A G G G G A G G G A A C G G G A A A A G G G G G A A $\mathcal{A} A$ G G G GAGAGGCCCCAAAAAAGAAGAGAGAGAAAGAGTTAAAAA $A C C A G G G G G A A A A A G G G A A C C A A A G G G G A C G G G G G G A A A C A G$

GAACAAGACAAAGGGGGAAGGAAAGGGAAGGACAGACBAGGG GAACCGGAGAAAGGAAAGAAGGACCGGTAGGGAGGAAGAAAA
 AAAGGGGGGGACCGAAAAGTAAAAGAAGGAAAAGGCCGAAAG G G G G G GAGAGAACACGAGAAAAGGGCAAAAATTGGAAACAGAA A G G GAAAGGAGGAAACCAAAGAAAAAAAAAAGGAAGGCAAAA AAAAAGGGGGAGAAGAACAAAAAAAAAGGAAAGAGCAAAAAA AGGCCCGAAAGGAGAGGGGGGGGGGAAGGAACCAAGAAAAAG GAGGAAAAAGGAAGGCAAAACAGACGGCCAACCAAGGBAGAG AAGCCAAAGGAGAAGGGAAGGGGGAGGCCGAAAGAGGGAGAA GAGCCAAAGAAAAGAGGACGACCGGAGAGGAAAGAAAAAAGG A A G G G G G G A A A A A G G G G G G G G A G G G G A A A A G G G G A GAAA A G G GAAAACCAATTAACCGGTACAGGGAGACGAGACAGGAAGEG GAAAGACAAAAAGAAGAGGGGAGCACCAGCAAGATCCGAAAA AAGCCCAAAAACCGGGGGGAAGGGGCCGAAAGGAGCCAGAAA G G G G G A A G GAA $A \operatorname{GA} A G G G G A G C C G G A A G G A A G G C C A A A A A A G$ G G GCCCCAAGGAAAAGGGGAACCAAGGAAAAGGGGGAAAGAA GAGGAAAAAGGGGGGGAAGGGAGGGGAAGGGAA $\operatorname{A} A A A A A G G G G G$ GACGGGGGCAGAGAGAAAAGGAGCAAGAGAGAAGGGAAAAAA G G G A A G G G G G G A G A A G GCC G G G G G A C C C C A G G A G GAA GA G A C AGGGGACAGGAGGAGGACCAACCAGGGAAAAAAACGACAAAG GAGGGCAAGGGCAGGGGCCTTAGAGGAAGAAACGAGAAGAGA A GAGGGACCAACAGAAGCCGGAGAGAAAAAAAAGGAAAAAAC CAAACCAGAGAGAAGCAAAAAGAGGGAAAGGGAAGTACBGGA GAAGGGGAAAGAAGAAAGGGGAGAAGGGGGAGAAAGGGAAAA AACGGAGAAAAAGGGGAACGGAAAAAAAAAAGACCAAAAAAG G G GAGGACCGACAAGAAAAGAGAGGAAGAGAGATTAGACAGA GACGAGGAAAAAAGGGATTGAAGCAGAGGAAAAGGAAAAGGG G GAA $A \operatorname{GAC} C A A A A G G A A A G A C C C A A A A G G G G A A G G G G G A A A G$ GGGAAAAGAAAGAGGCAAGCCAAGACAAAAGGGCAAAAAAGAG G G G G A G A A G A C G G G G G G G G A A A A A A A A A A A A C C G GAAA G G G A G GAGGGGAGGAGGGAAAGAGGGGAAAAGAGAAGGGGGAGAAG A A GACATAGAGAGGAACGAGGAGAAAGGAGAGAGGGGCCGGG A A G A G A A A A G G G G A A A A G G G G G G A A A A G G CAC GCCAA G GAC C C CAGGAAAAAGAAGGCCAAGGAAGGCCGGAAAAGGGAAAGBC C G G A G G G G G A A A G A A G G A G A G A A C C A A A C G G C C G G G G G G G G A
 A A A GAGGGAGAAGGAGGCCAAAAAAGGAAGGAAGA GAGGGGG GAAG $A \operatorname{GG} \operatorname{GA} A A A G G A A C C G G G G G G G G C C G G A A G G G G A A G A A A C$ C G G G G G G A A G G A A G G A A A G A A G G A A A GAGGGGGAACC G GAA $\mathcal{A}$ GAAGGAAAAGGAAAAGGAAACAGACAGAGAGAGCCGGGACAA G G G G A G A C C G G G G A A A A G G A A G A G G A A A A G G G G A A G G C C G G G G G GAAA A $A$ A G GCCGGGGGGAAGGGGGGCCAGAACCGAGAAAA AAAAAACCCGGAAGGAGACCCGGAACCAACCAAGGGGGGGAA A G G A A A C A A A A A A G GAA $A \operatorname{GGGGAGCCAGCCGGGGGGCCAGGAG}$ G G G G G G G G G G G A G A A A A C CATGGGAGGCAAAAGAGGGAAAA G G G G G G G G A A G G A A A C A A G G G A A G G G G G C C G G A A G G A G G G G A G
 G GAAAAAGGGGGGAAAACCGGGGAAAAAAAGAAGAAAGGGGA $A G A A A G G A C G A G G G G A A G G A G G G A G A G A G A A A A C C G G G A A G B$ G G GAA $A \operatorname{GCCACGGAGAAAGCAAAAGCGAAGAAGGAAGGAA} A A$ G G GAA A G A A G GAA A A CAGGCCCCGACCACGGGGGGGGGACAA G G G G A G A A G A G A C G G C G G A G G A C C C G G G A A A A A C C A A C A A G G A GAGGAAGGGGGGAAAAGGAAGAAAGGAAAGGGAAAGAGGGA G G G A A A C G GAAAAGAGAAGGGCAAAGGAAAAAGCACAGAAGA GAAGGGGGACCAAGGCCAGGGAAAACCAAGGAAGGGBAAGGA A G G A A A A G GAAAAAGCCAAAAGGAAGGAAAAAAAAAGCAAGAG $G G G A A A G A G G G G G G A G G A A G G A A A A C C G G A A G G G A G A A A A A B$ G G G G G GAGAAGCCGAAAGGAAGGAAGGAAAAAAGGGGAAAAG

A G G GACAGAGGGGAACCAAAGGGAAAACAAAAGAGGAAGGGA C C C A A C CAA $A \operatorname{GCC} G G C C G G A T A G G G A G G G A G A A A A G G G G A G G$
 A A G G G GAGAAAGGAAGGGGGGACCCCCGGGGAAGGAAAAAAA GAA A GAAGGGGAAAAAAAAAAAGAGGGAAAAAGAAACGGGGA A G G G G A GCCAGGGGGGGGGGAAGAAGGAAAAAAAGAATAAGC C G G A G G G G A A GCCA $\mathcal{A} A A G G G G T T A A A G A A G G A A A A A A G A A C G$ G G GCCGGGGAGGGAGGAGACCAAGGGGAGCACCAGAAAAAAG A A G G A G A A A A A G G C C A A A A A A C C A A G A A A A A A A A A A A A A A G G A GGGACCAAAAGGGGAGGAAACCAACAAAACGAAAGAAAAAA
 C C G GAAAAAGAGGGGAGGAAAAGAAAACCAAGGGGGAAAGGA A G G A A A A A A C C A A A A A A G G A A A A A A G GAA G GAA G GAA G G G G A G G G A A A A A A GAGGAAAGAACCCCAAAAGAGAACAGAAGAGAG GGGCCAAAAGGAGCCAAGAAACCAGAAAGAAGAAAAGAAAAG A G G G G G GCAGGGGAAAAAGGAAGGAAGGAAAGAA GACAGGGG
 A G G A G A A A A C A G G A A A A G G G G A A G G T T G G G GAAAAAACCC CA AGGAAAAGGGGCCGGACAAAAGAAAGAAAGGAAGGAGAAGAA G G G G A G G G A C A A A A G A A G G G G A A A A C C G G A A G G A A A A G A G G G G G G GAAAAGGGGGAACAAAGGAGGGAAAAAAGAAGGGAACC G G G GA $\operatorname{l}$ G GAAAGGGCGGAGAAGAAGGGGAAAACCGGCCAGAAA GCAGGGGAAGGAAAGGGAAAAGGAAAACCGGACCAGAAGAGG G A TA $A$ A $\operatorname{A} G A A A A A G G A A G G G G G G C C A A G G G A A G G A A A C A A A G$ GCCAGGGGGAAGAGAAAGGAACCAAGGGGAAAAAGGGACGGC C GAAAGGAAAAAACAAGAAAAGGAAAAGGAGAGAAAACCGGA GAACCACAGAAAGTAAAACGACCGAGGGGGGAAAGGCAAAAG GAAAAGGAAGGCCAAGGAGGGAGGGGGAAGGAAGAGGGAAGA G G GAGCAGGGGGAGGAGAGACGAAAGGAAAAGACCGGAAAGG GAAAAAGGGAAAACGCACCGGAAGGCCAAAACCAAGGGGGGG G G G G G A G A A A A C C G G C A A A G G G G G G G G A A A A A A A A A A G GAAA AGGGGAACCAAGAGAAGACATAGAACACCAAGAGGTTAAAAG A GAGAAAGAAAAAAAGGGGAGGGAAAAGGGGCAGGGGAAAGC A A A A A A G G G G A A A C C G G C C A A A A A A G G G C A A A G G G G G A A A A $G$ GAAAAGGGGGGAAAGTTGAGGAAAAAAAAGGCCCCACGACAA
 AGGCCGGAAAAAAGGGGAAACAACAAGGACCGGAAAAAAGAC $C G G T T A A A G A G A A G G G A A A G G A A G A A A A G C A G G G G A A G G A A A$
 A CA $A \operatorname{GAA} A A G C G G G A A A G G A C G G A G T T A G A C G G G G G G G A C A A$ $A C C A A C C A A A A A A A A G G G G A A A A A G A G G G G A A A A A G A G G G G A$
 A G G A A A GAGAAAGAGGGAAGGGGGGGCAGGAAGGGGGGAGGA GAGAGAAGAGAGGAAAAACAACGGGGGGAAAGGAAGAAAGAG A G G T T A G G A A G GAACC GAGCCCAGAGGGGGGGGGGGGGAAGA $A G A G G G G A G G G A A A A G G A G G G G G A A A A G A A G A A A G G G G A G A A$ A G G G G G A G G G G G A A A A A A G GACAAAAA A A G G C C A A G G C C G G G G G GAAAGCAAAGGAAGGAACCGAGGGGGACCGAACAACAGAA A G GAATTAGTTGAAAGAGAGGGAAAAAAAGGGGAAAAAATTA A A A A A A A $\mathcal{A} G G G G G G G G G C C G G G G G G A A A A G G A A A G A G A G G G A$ A A A A ACCAAGGAGAAAAACAAGGAGGGGGAAAAAAGGGAAGA CGGCCAAGACAAGACAAGGAACCGGAGAAAAAGAACCGGCCG A CAAA $A \operatorname{G} G C A A G G A A G A A G A G A G G A A G A G A G A G A A G G G A G A C$ ACAGGAGGGAAAAAAGGAAAGAACCGGAAAAGGAAAAGCGGA A A G G G A C A GAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} A A A A G G A A A G G G A A A G A A A A G G A A G$ GAAGGGGCCGAGGAAAAGGCCCCCCCAAAGAAAAAGG
GGCAGAGGGGACCAAGGGACAGGAGGAACCGAACCCCAGCA GAAGGAAGAGGAAAAAACCGGGGGGAAAAAAGAGGCAAAAAA GAGAAAAAAAAAGAAGGGAGAAGGGGGGGGGAAAAGACAAAA

A G G A A A G A GAGGGAAAGAGGGGGAAAAAAAAGGGGAAAAAGA ACAAAAGAACAGGGGAAGGAAAGAGCCGGAAAGCCAACACCA GAACCCCAAAAAAAACCAAAAGGAAAGGGAAGGCAAGAAAAA A G G A A C A G A G G GAA $A \operatorname{G} G \mathrm{G}$ GAAAGGAAGGGAACGGGGATGGGGA AAAGGGGGAAAAGAGCCAAAGGCAGAGGAGAGAGAGAAAAGA A GAA A GAA $A \operatorname{ACCA} A G G G G G G A A A A A G C C G G A A G A A G A A C C C C G$ G G GA G A A A A A A G GCCGGAAAAAAAAAAAACCGAGGAGAGACA GAGAAAAAGAAGGAAAAAAAAGGGGAAAGAAAGAGGGAGGGC A A A A A A A G A C CACA A G G G G G G A G G A G G A A A GAAAAAA A GA G G GCAAGGGGGGGAAAAAAGGGGGGAAGGGGAAGGGGAAGAAAG GACAGAGGGCCTTGGGGCCCCGAAGGCGAGGGGAAGGAGAAG G G GCGGGCCGGAGGGAGTTAAGGAGGGGAGAGCCCGAAAAAG G G G G G G G A A C C G G G G G G G G C A A A G G G G G G G A G G A A G G A G G A A GAAGGAACACCGAGGAGAAAGGAGGGGGGGAGAAAAGAACCB A G GCCTTGGGGGGAGGGAAGGAGAAAGAGAAGGAAGAAAAAA AA $\operatorname{A} A C G A A A A A G G G A A A G G A A G G G G G G A A G G A G A A G G G A A A G$ GAAA A A A A A G GAGGGAAGGCAAACAGGAAGGGGGGAAA GA G G $A$ G G G GAGGCCGGAGAAGCAAAAAAGAAAAACAGGAAGGGAAAA ATTAAGGGGGAACAAAGAGGGAGGGAAGAGGAGGGAACAAAA
 TAGAAAAGGCCAAGCGGAGGGAAAAGGGAAGGAAAAGAACAG A GAA A GAA $A \operatorname{Ag} \operatorname{A} A A A G A A A G A A G G A A G G G G A A G G A A A A G G C C A$ A G G A A A G C A A G A A G A A A G G G G G A G G A A A A A A A G G GAA G G G A A A G G A G A A A A A C G G G A A A T T G G G G A A G G G G A A G G A A A A G G A G G
 G GAAAAAGAGGGGGGGGGCCGGGAAAGGGGCCGCCCGAAGG A A GAACCAAAAGGAAGGCCAAAAGACCCAGAAAAAAAAAGGA G G G G G A A G G G G A A G G G G C C G A A G G A GAGAGGGAGGGAAAAAA A G G G A A A A A A G A A GAGAAAAGAAGGGGGAGGGGAAAAAAAAA GAGAGAAAAGGAAACCAAGAAGGAAAAGACCACAAACGAAAG A A G A A G G G G G A A G A G G G A A A GCCAACC GAGGGAAAAAGAA GA G G G G G G GACGAAGCACCGGGAGGGAGAGAACCAAGCCGGAGG G GAAACCGAAAACGGGGGGGGAAGGAGGAAGAGCGAAAACAA A A A A A G G A A A A C A A A A A A G GAACGGGGGGTTGGAA GAGAC G C C CAA ACAGAGAGGAAACGAAAGGAGAAGGAAAGGAAGAA GAA A A G G G G G G A A G A C A A A G A A A A G G A A A A A G GA $A$ A A A A A A G A A G GAGAAAGAAAACAGGGGCAGACAGGTTAAAACAGGAAGGAGC $C G G G G G G A A C C G G A A A A A A A A G G A A T T T A A A A G A G G G G G C C A$ $A G G C C G G G G G A G G G G A G A A G G A G G G G G G G A A G G A A A A C C G G G$ GACTTAAAAAAGAAAGGAAGGAAAAAAGGCAAGGAGAGAAAA CAAGGAAAAACGGGGAAGGCCCCAGGGAAAGAGGAAGAAGAG G G G A A A A A A G G C C A A A G G A A G G G G G A A G G C C A C A G G A G G A C G GTAAAAAGAAGGGGGGGAACCGGAAGGAACCAAGGCAAAAGG GAAGAGGGAAAAACCACGGGGAAGCAAACAAACCCGBAACAA A G G G G A A G G A A A A A G A A A G G G G A T T A A A A A G G G G G G A G A A A G G G G GCCAG $C$ A A G G A A A A $\mathcal{A} G G G G G A A G G C C G G G G G G A A G G G A G A G$ A G A G G G G G G A A G G G A G A A A C C G G C C A A GAGGGGGGGAGAT TA ACCGGAAAACCGGAAGGGGCAGGGGAAGGACAAAGAAGAAAA AAA A A A A GAATAGGGAGAAGGACAGAAAGAAAGAGGAACGGG A A A A A G G G GAC A G GAAA $A \operatorname{AAGGGGGCCAAAAGGAAGAGGGAAAG}$ G G GAA $\operatorname{A}$ GAAAAAACAGGGAGAGGAGGGAAGGAACAAAGAGAC CCCGGGGAAAAGGGAGAAGCAAGGAACGAAAGAAAAAGGCCA A A G A G A A G A A A C CAAACGGCAAAGGAAAGAAAA G GAAGAG GA A G G G G GAACAGGAGGGAAAGGACGGGGAAAAGGAGAGGGACG G G G A G G G G G G G A G A A A G G A G G G A A A A G G G G GAAAA A A G G C C C CACGGGGAAAAAGAAAGGAGAGAGGGGAGGGGGAAAGGAAGA G G G G G A A G G A G A G C C G G G A A A G G G G G G G G G C G G A A G G G G A A A A G GCC G G A A G G G G C C G G T T A A G GAAAAA A GAA A A A A G A G C C G G G GAGAGGGAGCCAAGGGAGGAAGGAAGGGAAGAAAAAAAGA

CACAGAGAAGGGAAGAGGAGAAAGGCCAGAAGGGGGACGGGG
 G G G G G G G C C G G A A G GAA A G G G G G A A A A GAA A $\mathcal{A} G A A A A G G G G G A$ A A GCC G GAA A GAAAAAAAGTTGGAAGACCGAGGAGAGAAGAA ACCGGGGCCCCAAACAACAAAGGGGGACCGGGGGGAGGAAAA C T A A A A A A CACAGAGAAGGAAAAAGCCGGGAGAGAAAGAAA A A A G G A A G GAACCAGGAGGGAGGGAAAGGGAAACCCCAAGAA GGGGCAGAAGAGGACGAAAGGAAGAGAAGAAAACCAGACAAA $A C C G G G G G G A G C A C A C A A A A C A G G G A A G G A A A A G A A G G G C G G$ GAAACGACAAAGGAAAAGGAAAAGAAGAAAGCAGAGGAGCCG GAACCAAGGAGGGAGGGAAGGGAGGGGGGGACCGACCAGAAG A G G A A A G G A A A G GAAACGGTTGAAAGAGGGGAGAAAAGAAAA
 GAACCAAAGAAGGAGAGAGAAAGGAGGAGGAAAGGAGCAAAA A G GCCAGGACAGGAAAAAGAAGGCCCCGGAGGGGGAGAAAAG G G GAA $A \operatorname{G} G A A C G A G A G G G A G G A A G G C C G G G G G G A A G A C C G B A$ $A \subset A G G G G C C A C A G G G G A G A A A G A G G G G G G G A A G G G G A A A G A A$ G G G G G A A A A G G G G G A G G A A A A A GAGGGGAAAGAGGCCAAAA G $G G A A G C A A G A G A G A A A G A A A G A A G G G A G G A G A A G G G A A C G G A$ A G A A A C C A G A A A A A A G G A A A A A A G A G G G G A GAA $\operatorname{A}$ G G A G G C C G GTAATCCGGGACCGGGGAAAAGGAAGGAAATAGGGGGAGGGA GAAGGGGGGAAAGGGGGGGCCGGAAAAAAGACCGAAGAGGGA A G G A A G G G G G G A GAGGAAGCGAGAAAAGGACAAAGAAAGGAA GAAAAGGAAGAGAACAGGAGGAAAAGGAGGGGGGGAAGAAAA $A G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G G A$ A G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G G A A G $G A$ AAAGGAAGGGGGGAACCCCGGGGAAAAGGAAGGCCCCGGGGA A G G A A A A G GAA $A \operatorname{GGC} C A A A A G G A A G G A A G G A A A A G G A A A A G G G$ GCCCCAAGGCCAGAAGGGGGGGGGGAACCGGCCAAAAGGCCG GAAGGAAGGGGAACCGGAAAAAAGGAAAAAAGGAACCAAGGC C C C G G A A C C A A A A A A G G A A G G A A A A A A G G A A G G G G A A G G G G A A G GAACCGGAAGGCCGGGACAAGAGGAAGGGAAGAGGGGAAA GCCGGAGAGAGAACCCCAAAAGGGGAAAAGGAAAACCGAACA GACAGAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTXGGG G G G G G A A G G G G G G G GAA $A \operatorname{GCC} C A A G G C C G G A A A A A A T T A A A A A$ A G G A A G G A A A A A A G G A A A A A A A A G GAAAAAAAAA GAAACCCCC CAAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGAAAG AAGAGAACAAAGAAAAAAAAGAGCCCCCAGGCGGGGGGAGAG A G G G G A A G G G G A A A CAGAACACAGGGAAGACAAA GAAA GAAG
 AAAGGGAGAGGAAACCAGAGGAAAGCAAAGAGAGGAAGAACB GCGAAGGACGAGGGAGAAGCAGAAAGGGGGGGGCCAGACAGB AAGGAGAGACAAGAAAAAAGAAAGGAAGAAGAACCACGGGGG G G A T T GAGGGGCCAGAGAAAACCGGGGAAAAGGGGGGGGGGG GAGCCAGGGCAAAAAAAGAGGGACGGGAAGAAAAGGAGGGGA A G G G G G G A A G G A G G G G GAC $\mathcal{A} G G A A A G A C G A C A A A G A T T G A C A A$ C CACACACCAAGGAAGGAAAAGATAAGAGAGAAGGAGGGGGA GACGAGGGGGGGGGGACAAGGAACCCCGAGAAGAGGAAAGCG G G GAGCCCAGGGAAGGGAAAAACGGAAAAAAAAAAGGGAGAA
 A A GAGGGGGCCAAGAGGGAAGGGAAGGGGGAGGAAGGAAGAG A G GAAAA A $A$ A A A A A $\mathcal{A} G G A G G G G A A G G A G A C G G G G A A G A G A C A A$ A G G G G A A G A A A A C G G G G G A A A G G A G A A C C A A A A G G G G G G T T G GGGAACCAAAAAAAAAGGGCGCAGAAGAAGGCAAGAGAAAGAG A G G G A G G G GCCAA G GAGCAAATTGGAAGGAAGAAGGACAGGC CAAAAAAGGAAGGGGGGAACCAAAAAAAAGGCCAAGG
CC $C G G G G G A A A A A A C C G G G G G G G G G A A A A G G A A A A A A A A G$
 AGGAAGGGGAAGGAAAATTAAAAAGAAGAAGAAAGAAAAGGA

A A A A A A A G G G G A A GAATACCCAGGGAAAACCCAGGAAAGAAA A G G G G A A A A C CAAACAAGGAAAAAAAAGAGGAGAAA GAAAA G $G G G C C A G A A T T A A G G G G G G G G A A G A A G A A G G G G G A G A A A A G A$ G G GAGGGGACCCACCGACAGGAAGGGGAAAGAAAGAAGGGGG GAAAAGGGGGGGGGGACAAGAGGAAAAAAGGAGAGAGGAAAA
 CAGAAAAGGAAAAAAAACAGGAAAAGGGGAACCAAGAAAGAC AAACCCAACAAAGAAAAGGAAGGAACCAAGGAAGGAAGGGGA A G G A A A A G G A A C C A A G G G G C C G G T T G G A A G G G G C C A A G A G G A A A A GAAAGAAGGAAGAAGAAGGGGGGGCCGGAGGAAGGBCAA CAAA A A A G G G G A A A A GAAAAAAAGGAAAAGGGAAAA GAAAAA G GAAAGGGAAAAAGACCCCAGAAAAAAGGAAGAAAGGGAAAC CAGCCAAAAGGGGGGAAAAAAAAGGAAGGAAGAGGAAAGA GA GAAAAAGGGAACCAGGAAGAAAAAGAGAGAACCGGGGGAAAA
 A A A A A G GAGGGGGGAAGAAAGAAAAAAAAGGCCGGAGAAAGA
 G G G G G GA GA GAACCAAAAAGAAAGAGGAGGGAGGGGGGAAGG $G C C G G G G G G G G C A G G G G C A A A T A A A G G G G G G G G A A A C A G A G G$ A G G A A A A A A G A GA G A G G A A A C G A A A G GAA $A$ G GA G A T C A G A G A G AAAAGGAAAGAAAAAAAGAAAGAGGAGAAAAAAAAG GAAAAA
 AACGGAGGAGGAGAGAACCCCACAAAGGGGACCAAAAAGGAA

 G G G A G A A G G G G G G G G G G A A C C A A A A C C G G G GAA A A G G A GA G C CAAGGGGGAAAAAGGCCCCGGAGAAGGCAAAGAAGAAAAGAA A A A G G G A A A G G GAAA A G A A A A A A A A G GAAC GAA A A A GA GA G G GAAA $A$ A $A \operatorname{G} A A G A A A G A A A A G G G G G G G G C C A G A A A A A G A G G G G$ GAAGGGGGGAAGGCCAAGGAGCCAAAAAAAAGGAGGAAAGGG
 GAGCAGAGGAAAAGGAGAAAAAAGGGGCAAGGAACAGAGAGA CACAACCCCCCAAGGAAGAGGAAGGAAGAAAAAAGGGAAGGG G G GCC GAGAAGCAGGAGGACCCCGGGGAAACAGAGGGGAAAA A A A G GCCAGGGAAGAAAAAAGGGGGGGGAGGAAA GAAAAGAG GAGAGGAAGCCGAGGGGCCGGAAGGCCAGGGGGGAAGAAAAG G G G G G G G A A G G G G G G G G A A A GAC G G C CAA $A \operatorname{AGGGGGAA} G G A A A$
 A G G A A G G A A A A G G G G G G G A A A A G A A A A G C A A G G A A A G A G G G G GAA A A C C G GA G G G A A G G A A G G A A A A A A G G A G G G G A G A A G G G G GGACCAGCAGGAACCGGAGAAGGAAAGAGAACCAACCAAGGA A A A G G G G A A A A G G G G G G C C G A A G G G A G G G A C A A C G GAAAAAA CAAGAAACACCGAGAAGAGGGCCCCGGCAAGAAGGAAGAAGA A A GAAAAGGAGAAGGAAAAGGGGAACAGAGGAAAAAAGAAGG $G C C A A G G G G A A A G A G A G A A G G A A A G G G G G A G A G A A A A C A G A G$ GAAACGGAAGGGGAGGGAAAGCCGGGGAAAAAAAAGGAAAAA

 G G G G G GAACGGGGAAGAGGAAGGAAAAGGAGAACCAGAAAGA A A A G G GCGGGGAAGGAAAAAAAGAGAGACCAAAAGGGAAAC G
 A A A A G A A CCAAAGGGGGGGAAGAGGGGCCCCAAAAAAAAATA GA G G A C C A A G G G G A A G G A A A A A G G G G G A A A GAACCA A A A A A A G G G G G G G G G G G A A A A A A G G A A A C A A G GAGAGGA G G T T G GTTA $A G G A G A G G A G G A A G G A G A G A G G G A A A G G G A A A A A A G G A A G G A$ $A C C G G G G A A C C G G G G G A G G G G A G A A A G A G A A G G A A A A G A A G G$ GAAGAGAAGGAAGGGGAAGAGGGGACAAAGCAAGGTTGAACA A A C A G A A A G G G G A CA GAAACCAGGGGAAAAAGGAGAGAAAA G GAACCAACCCCGAAAGGGGAACCCCAAAAGGGGAACAAACAA

A G G G G G GAAAAGGAAAAAGGGCCCCGGGAAAAAAGGAGGCCC CAAAAAAAGGACCAGAGAAAAGAAGGGGGGAGAACAGAGAAC A A GA $\operatorname{A} A A G G A A G G C C G G C C A A G G A C G A A A G G A G A A A A A A A A G$ GGGCCAAGGGGGGAAAAGGAAAAGGAAAAGGAAGGAAAAGGG GAAGGAAAAGGGGCCCCAAAAAAAAAAGGAAAAAACCGGGGG
 G G G G GCAG GACAAAGAAAAGGGAGGGGACCCAAGBACGAGAA AGGCCAGAAAAAAGGGAAAAAGGGGAAAACAAGAGGAGGCCA AAAGGGGCCAAACCCAAGAGAAAAAAAACGGGAGACCAAGGC $C G G G G C A G G A T A G G G A G G G A A G A G G A A A G G A G G A A G A A C A A G$ A GAGAACACCCAAAGAGGGGGAGACGAGACCAAGGGAGAGGA GA $A$ A A A A $\mathcal{A} G G G A T G G G G A G G A G A G A G A G A A C A A G G A A A G C C A$ A G G A G G G G G A G G G A A A G GACAACGGAGCCAAACAAAAAAGGG GAACCCCGGAAAAAAAAAAAAAAAAGGAACCGGGAGAAGAGG GAGGGGAAAACAGAGAGGGAGGGCCAAGGAAAAAAGGGGCCG
 GAA A G G G A A G G G G G G A A A A A G G GAGCCCCAAGGGGAGGAGAA G G GCAGGCCAAAAAAGGCAGGGAAAGGAACCAAGAGAGAAAA AAAGGAAGACAAGGGGAGGCCGAAAGGGAGATAACGAAAAAG GCATTGGGAAGCCGGAGTAAAAAAAGGAAAGGGAAAAGACAG AGGAAAACCAAAACCGGGGAAAACCGAAAAGGGGGAAGGGGAA A G G G G A A A A G G G G G A G A A GAGAGGGAAAAAAGGTTAGGAAGG A G G G G G G G GAAAAGGAAGGCCCCGAGAAGGAACGGGAAAAGG $G C C A A C C G G G G A A G A A A G G A A A A A A G G T T C C G G C C A C G G G G G$ G G GACCCAAAAGGGACCAGCAAAAAAAGGGGGGGAGAAAA GA G G GCC C G G G G G G G G G G G G G A G G G A A G G A A C C T A A A G G G A G G A A G G G G GACACCAAAAGGGGAAAAAAAACCAAGGACTTGGGAG GAA $A \operatorname{G} A A A A A G G G G G G A A G A G A G G A A G G A A A A G G C C G G G G G G G$ A GAGAGGAACGGAGGAGACGGAGAGGGAGGAGAACACAAABA $A C C A G A A A A A A A G G A G G A A A A G A C A A A A A G G G G A A G A A A A A G$ GAAAGAGAAGGCCAGGGGGAAAAAACCAAAAGGACCAGGGGG G GAAGCAGGGGAGAAAAGGACAGAAGAGGAAGAGAAAAGAAG $A G G A A G G G G G A G G A G A G G G G G A G G G A G A A G G A A G G A G G G C B A$ G G G A A A A G GA GAGAAAAAAGGAAGAAAAAGGGGGGGAGAGA G G G G G G A C C A G A A C G A A A G G A A G G G G A A G G G G G G G G G G G G G G G AAGAGCCGAGGAACCAACCCCAAACAACCGGCCAAGAGAGAA G GAA A A GCCGGGAGGCCGGAAACGGGGAAAGAC GATTGAAAC $C G G G G G G G A C C G G A A G G G G G A G G C A G G C C A C C C C A A G G G A C C$ CACAGACAAAAGGGCGGGAAGGGGGAAAACAGGGGGAAGABA A A A A A A GA $\operatorname{A} G A G A A G A G G A A A C C G A C A A G G A G G A A A A A G G G G$ GAAGGGGCCGAGAAGAGAGAGGAAGAAAGGGAAAAAGAAGGG G G GAACCGGGGCCAACCAAAGGGTAAAGAAGAGGAGAAAGGG GAAGGGAGGACGGACAAGGAGGGAGGGAGAAGAGGAGAAAAA A A GAAACAAGGGAGGGATAGGGGAACCGGAAGGGGGGGAAAG
 A A A A GCCAAAAAACCGAGAGGAAGAGGAAGGCCGGAACCGGC C A A A A A A A A A A G G G GAAAA $A$ A GAAAC G GAAACAGAA G G GAC G T TA $A G G A A A G C A G G A A C C A A G G G G G G A A C C A A G G G G G G G A G G G$ G G GAGGGGGAAACAAAAATAAAAAAGGCCAGGAAGGACAAGA $A C C A A A A A G T T A A A A A G A A G G A A A A A A G G A A A A C C A G G A A G G$ A GAG $A \operatorname{GG} \operatorname{GAAAAAA} A A A A A A A G G A G A A G G A G G A G G G G G G A A A A C$ A G G A GCCAAAAGGAAAAGGGGGGAAAGTTGGCGAGAAGGGGG A G G G A C C C C A G A C A G G A A G G A A G G A G A G G G G A G A C A G G G A A G GAAAAGGACCAAGCCGAGAAAGGAGAGAAACAGGAGACGCAG A GAA $A$ A A A GAA $A A G G A G A A A A A A G G G G G G A A A A G G G G G A A A G$ A A G A A G G G G G G G G G G A G C C G G G G G G A G A A G G A A G G G A
G G GAGGACGGAAGGGAAGGGAGGGGGAGGGAAAAGAAAAAG G A A A A C C G G G G G G G GAC G G GACA $A \operatorname{A} G A G G G A C G G A A A A G A G G A$ GAAAACCAATTGAAAAAAAGGGGGGAGGAGGCCGAAAAAABA

AAGCCGAAAAAAAAGACAATTGGGAACGAAGAGAAAGGGAGG GAAGGAACGGGAAAGACCAGAAAAAAAAGAGGGGGGAAAAAA A G G G GAG G GACAAAAA A $A \operatorname{A} A G G G A A A A A G G G A A A G G G G G G A A C C$ A G GCCCAGGAGAGACGGCAGAACGAGAGGGGGAGGAAAGGAG GAGGGGGACAAAACCAAGAGAACAAAAGACAAAGGAAGAAAG
 $G C C A A C C A A G G G G A A A A A A G G A A G G A A G G G G A A G G A A C C G G A$ AGGAAGGGGAACCAACCAAAAAAAAAAGGGGAAAAAAGGGGA AAAGGAAAACCGGAACCAAGGAAGGGGCCAAAAGGAAAAAAG GAAAAAAGGAAGAGGGGAAAGAGGGGGGAGGAAGAAGAAGAG
 G G G A G G A G A G G G A G G G A A G G G G G C A A A G G A A A G G A G A A A A A $G$ G G G A A G G G A G G CAA $A \operatorname{GGGGGGA} G A G A G G A G G C A A A G A G G A A G G$ A G G G G A A C C A A G G G G GAG GA A G G A A G G C C G GAA A G G G A A G G G GAGCAGGAGAACAGGATAAGGCAAGAAAAAAGAAAAAGGGGG A G G G G GACACC G GAA A G GA G GA GAAGGCCAGGGGGGGGAACA
 G G G A A A A A G GAGGGGAGCCAGGAAAAAGGAAGAAAGGGGGGA

 G G G GACCAGAGGAGGAAGGAAGAGGGAGGGACCGGGGAAGAG A A GAGGGAAGGGAGAGAAAAGAGAGGGGGCAAGACAAAAAAG A G G GAGACCGGCCAAAAAGGAAGGAAGCCAAGAAAAAGAAAG G G G G A A G G G G G A G G A GAAAA A A A GGGCCAGGGAAAAAAAACAA A A A A A G GCCCCGGAAGGTTAAACAGCAAGGGGGAA GAACCCA AAGCCGGAAAAGGGGACAAAAGGAGGGGGAAGGAAGGGAAGA GAGGAGGCCCAGGGGGGAGGAAAGGAAAACCGGGGAAAAAAAA G G G A A A A GAG $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} G \mathrm{C} C A A A A A A A A A A A A A G G C X A A A C T$ T G G G G A A C C A C A C G G A GAGCAGGAAGGGGAAGAGGAGAGCCC CAGGGAAGGGAGGGAGGGGGAGAAAAAAACCAAAAGAAAAAG G A A A C G G C A G G G G G G G G A A G G C A A A A A G G A A G G A A G G A G G A A AGGAACAAAGGAGGAAAAACCCGCCGGAAAGACAAGGCCGGG AAACCGGAAGAAAGGAAGGAGGGGAGGAAAGAGGGAACAGAA A A A A A G G G GCCAC G GCCAGATGAGGAAGGAACCGGAAAACAA
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 CAAAAAAGAACAACAGGAGAAAACCCCAAGGAGAGGAGGGGG G G G G GCCGGAAGGGGAAAAGGAAGGGGAAAACCAAGAAAGAC A GAG G A G C A A A G G A G A A CAGGGGGGCCGAAGGAGAAA GAAC G GCCGGGGGGCCAGAAAGAAAAGAAAGGAAAACCCCAAGBCAA A A A A A A A GAGAGGAAAAGAAGGACCGGAGAGGAAAGGAAAAC A A G G GAGGGGAACGCAAGGAAAAAAGAGAAAAAGAACGGGGG G G A G G G G A A A A G GCC G A G G G G T A A C A G C C A A A A A A G G G G G A G GAAGGGAAGAAGGGGGGCGGAAACAAATTCCAAGGCCAAA GA A G G A C A A A A GAGGGAGGGGGGAGGGACGGGGAAGAAGCAGAA AA GACAAAAAAAGAGAAAAAAAAAAAGAGGAGGAAATA G GAGA $A C C A A T T G G A A A C G A A A G G G G A A A A G G A G G G G G C A A G A G G G A$ $G G G A A G A A A G A A A C C G G A G A A A A G G G A A A A G A A A A A A C A A G A$ C G A A A A A G G A A A G G G G A A A GGGGGGGGAGCCAAGGGGCAAAA A G A C A A $\mathcal{A} G G G G G G G G C C A A A A A A A A C C A G A A G G A A A A G A A A G$ GAAAGAGGGAAGGGGAGGGAAGAAACCAAAGAAGGAAGACAA C GAGAGAGAAAGGGGGAAACCAGAAAAAAGGAAGGAACAACG A GAGAGAAGAAGGGGAAGAAACCAAAGCGAAAAAGCCAAGGG GAGCGCCGGGCGCACAAACAGCCGGCCGGAAAACCCCAAGAAA A C C A A A A G G A A C C G G G G A A CAGAGGAGGGGGAAAGAAAAAAA AAACCGGGAAAAAAAAAAAGAGAGAGGGGCCGGGGACCCCCG

A A G A G G A T A G G G G A G G G G A A A G G A G CA G G T TAC G GA G C C G G G A A G G A A G G GA G A A G A A A G G A G A A G G A A G A A A G G GAA G G G G G G GAACAGGGGGAGGGGCAAAAGGGAAAAGAGAGAGGGAABAGA G G GAAAAAAGGAACCGAGGAAGGGGAGCCAAGACCGGAAAAA G GAGAAAGAAAGAAAAAAAGGAAACACAAGGAAAAAG GAAAA A A GAAAGGAGGGAAAAAAGGAGACCCCCCGGACAGCCGGGAG G GAGGGGAAGGAAGGAAGGAAGGGAGGAAGGGGGGAGAAAAG
 GAGAGGGACTTGGAAGGCAGGAAAAGACAAAACGBAAAAGAA AAAAAAAGGAAAAGGGAAGGAGAAAAGCCAAAGGAAAAGAAC C GAGGGGACGAGGGGGGAAAACCGGCCGGGGAAAAAAAAAAC C C C G G A G A A G G G G G G G GAAA A GAGAC GACACGGGGCCAGCA G A GACCCACCGGGAGAAAAGGGAAGAAAGAGAAGCCBAAAAAG GAGAAGGAAGGGGAAGGAGCAGAGGGGGGGGCCAAAACCGGG AAAGGAAAAAGCAGAGGAAAGAAAATAGAGGAGGGCCGGGGA G GAGGAATAGAGGAGGGAACCGGGGGAGGGGAAAAAAGAAAG GAGCCGGAAAGCCAGAGGAAAGGAGTTAAAGAAAACCAAA GA GAAACAGAGAGGAAAAGAGGAAAAAAAAACACAAAAAAAGBA AAAAGGAGGCCGAAACCGGAATAAGCCGGGAAAACAAGGGGA
 CAAAACCAAAAAACCCAAGAGGAAGAAAGGAAGCCCC GAGAA GAGGAGGAAGGGGAAGGAACCGGAAGGTTAAGGCCGGGGAGC C GAGGAAGGAAAAGGAAGGGGGAGAGACAAGAGCAGAAACCC CAACCGGAACCGGTTTTGGATACAGAAAATACCCAAAGAAAA AAGCCGGAAAGAAAAGGCCAAAAAAAGAGCCAAAAGAAAGGA GAGAGAAAGAAAAGGGGGGGAAGAAAGAAACCGAGGGCAAAG GAAGAAGACACCAAGGAAGAAGGGGGCAAAAAGAAACGGGGG GAAGGGGAGAAGGGGGAGACAAAAAAGAGAAGGGAGAAAGGG G G G A A A A A A A GAGGACACCACGGGAGGAAGACCACAGAAGGA GAGGGCCAGGGGGAAGGAACCCCGGGGGGCCAGAAGACAAAA A A A A A A A G G G G G G A A A A C C A A G G G G C C G G G G A A A A C C G G G G G $G C C A A C C G G A A C C G G A A A A G G A A G G G G G G C C G G A A G G C A A A G$ G G G A A A A A A G G G G G G G GCCAAGGAAAAAAGGCCAA G GAAAGG G G G A A T T A A G G C A G G A A A A G G G G G GAGCCGGCCAAAA GAG GA A A A A A A A A A A TGGCCAGACAGAAGAAAAAGGGGAAAAAACAG GAAAAAGAAAACAAAAACCGGAAGGAAGGGGGGGGAGGGGGA GAGGGAAAGGGGGGGGGGAGGGAAAGGAAGAGGGGAGAAAAG AA GAACCAAACAAAGAAAGAAAGGGAAGGAAGGAGAAGAGGG
 GAAAAGAACCCGGCCGGGGAAGGGGAGAGAGGACCGGGGGAG GAAAAAGGGAGGGGAGGGGGGGGAGGGGGAGGGGAACCAAAG G G GCCCC G G G G A A A A A C G GCC GAAAGGCCGGGAGG GA G GA G C G G A A A A G G A GAGGGGGGGGGACCGGAGGAGAAGAGAAAAAGA G G G A G A A A A G A A G G A G A GAGAGAGAGGGGGGGAGAAAAAGGG GAGAGCCGAGAGGGGAAAAGAAAGGGGGACCGGGAAGAAAAG G G G A A A A A A A A C C G GAA $A \operatorname{GGGGGGGGCCAAAACCGGAAAAAAA}$ A $G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGAAAAGGGGGGAAAAGGAAGGGGAAAAAAGAC C T T G G A A A A A GAAAAGGGAGGGGAAAGGGAGAAGGGACAAAA G G GAAGGCCCCGACCGACGCCAGAGGGCCGGAAGGGGCCGBA AAAGGAAAAAAGGGGAACCGGGGAAGGGGGGAAGGAAGAAAG GAAGGCCAAGGCCAAAAGGAAAAAAAAAAGGAAAAGGGGGAA A G G G GCCAAAAAAAAAAAAGGAAGGAAGGAAGGGGCCAGGGG GAAGGGAAAAAGAGGAAGGGAAGAAGGCCGGGGAAGGACAAG G G G G A C C A A G G A G G GCCGGAAAAAAAAAAAGAAGGAAGEGGA A G A G A A A G A A G G G A G G A G G G G G G A G A G G A G GA G A GAAAAAAC A A G G A G A G A A A G GAGGAGGCAAAGGAACCCCACGAAG
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A A G GAGACCGGGGAAAGCCAAAAGGAAAACCGGGGAAGGGCT TCCAAGAGAGAGGGGGGCCAAGAAGAGGGCGGGCAGACAACC C G GAA A GAGGACCAAAGGAAGGAAACCGGAAAAGAAC GAAAAA AGAAAGAGAAAGGGGGGCCTAAGGGGGGGAAGGAGGAAAAGG G G GAGGGGACAAGGGCCACCCAGAAAGACGGAAAAAGGGGGA GAAAAAAAAGGGGTAGAAGAAACGAAAAAAAAAGGGGAAAAA GAC GAAACAATGGCCAGCAGGAAGGAAAAAAGGGGGGAAACA AGAGGGGACAGAGGGAGAAGGCAAGGAGAGAAGGAGAAAAAA A GAGAGGGGGGGAGGAAAAAGAAAAGAGAAGGGAGAAAAAAG GGGCAACCCAACCGAAAAAAAGGCCGAAGGGGGCCAGAAGAA G G G GAAAGGAAACAGGGAGGACAGGAGAAAGAGAACCAGGAG A G GCAAAAATTACAGAGGGAAAGGAAGGAAGGAGGAGCAGAA G GACAAGGGGGAAAGCACCCCAAGGCCGAGGAGAACCAAGAA
 GAAGGGGGAAAGAGGAGGGACAAGGAGAGAACAGGGAGAGAG $C G G G G G G A G A G C A G A G A G G A G G G A A G G G C A A A G A A A A G G A C A$ CAA $A \operatorname{ACA} G A G G G A G G A A C A A G A C G G G G G A A A G G G A G G G C A B A$ CAGCAACGCGACAAGGGAGGAGGAGAGGAGGTAAGGAAGAAA GAGAGAGAAAAAAGGGGGGACACAGGGGGAGAGAGAAGAGAAA C TAGAGAAAGGCAGGAAAAGGGGGAGAAGGGGGGAAAAAAAG $G C C A G A G G G A A G G G G G G C A G G G G A G C A A G A A G G A A A A G G G G A$ G G GACGGGGAGAACAAAGAGGAAAAAAAAGGGGGGGGAACAG G G GAAAAAAGGGGAAGGAAAAGGAAAAAAAAAAAAAAAAGAA A A A G G A A $\operatorname{A} G \mathrm{G} G \mathrm{G} A A A A A A A G G G G G G G G G G C C A A A A G G G G C C G G A$ A G GAA AGAAAACCAAAAAAGGCAAGAAGAGACAAGAAAAAGG G GAGGAACCAGCAGGAGGAAAACGGAAAAGAGGCCGGCCCCA A G GCAGGGGGAAGGGAAAAAAGGAAAACCGACAGGGGGATAC CAACCGGCCAGAGGGAGAAGAGGCCGAAGAAAGACGAGAGAA C C C G G G GACAAGGGGGGAGAGCCGGAGGGAGGAAGAGAAAAG G GAAGGGA GAGAGACAAGGAGAGGGGGGGAAGAAAACG GTTA A A G G G A A A A C A A G G GCCGGGGCCAGGGGGCAGGCAGAACAAA GGGAAGGCCAGGAGGAAGGGGAAGAAACAGGCAGAGGCAGAA GACGGACAGGAAAGGGGAGGGGGAGAAGGAAGGAGAGAGCAC C G G A G A A G A A G G G C C A A A G A A C C G C GAA A A A G GAAA G G G G G A $A C C A G A A G G A A G G G G G G A G G G A A G G A G G A C A G G C C A G G A A G G$ GACGGGGAAGGGGGGGGCCAAAAAAAGAAAAGGAAAAGAAAA AAAAAAAGGAAGGGGGAAGGGAAGGAGAGGGAGAAAAAAAAA A G G G G G GCCCCCCAGGGCCGGGGGGAAGGGGGGAGGGGAGGA G GAAAGGCCACAAAGAAAGAGCAAGGAGGAGGGGGAAGAGAG G G G GAA $A \subset C A A G G A A A A T A G G A G C A C A C A A G G G A A A A A A G A A$ $G G G G A A A G G G A G G A A A G A A G A A G A G G G G A G G G G G G A A A A A A A$ C A G G A A G C A G A A G G G G G G G A G G C G G A G G G G G A G G G G G A G A G A A GAGGGGAAGAAAGGGGAAAGAGGAGGAAAAGGGGCAAAAGA A GAA A GAGGGAGCGGGGGAAGGAAGAGAAAGAAGBAAAAAGC C C C C G G G A GAGAGCCAACCAGGGAGGAAAATGGAAGGGGGGA A GAGGGAGACCGGGGCCGAGAGGAAAACCAAAAGGAGGGCBA AAAGAAGCCAGGGAGACGGAAAAGGGACCAAAAGGAGAAAAG $A C C G G G G A A G A G G G G G G G G A A G A G A C C G G G G G G A G A A G A A G A$ A GAGGGGGGAACCAACAGGGGCCGGAGAATTGAGGAAAAGAA AAAGGCCAACCAAAGGACCCCAAGGGGGGGGGAAAGGAGAAG $G C C A A G A C C A A G G A G A G G A A A A A C A A G G A A A A A G G A A G A A A C$ C G A A A C C G GCAA $\mathcal{C} A A A G A G A G G G G G G C C A A C C G A A G G A G A A A G$ G G G G G G G A A G G A A A A G G G G A G C C A A G G G A A G C C G G A A A C G G G GAGGAGGGGGGGGGGCCGGGGGGAACCAAAGAAGGGGAGACA GAGAACAAGGGGGAGGGAGAAGGAAAAAGCCAGAAGGACGAA $G C C A A A A A C G A G G G A A A A A A A A G G G G G G A C C G G A A A A A A G G A$ A G GAA A GAA $A \operatorname{A} G A A G G C C A A A A A A A A G G A A A A A A G G C C A A G G G$ $G G G A A A A G G A G G G G G G G G A A G A C T A G G A G C X A A G G A G A B C A G$ GAAAACAGGCACAGAAAAACCAGACAAAGGAGAGAGAGGGGG

GAAGGGATAAGGAAAAGGGAAAGAGGAGAGGAAGGGGCAAAA
 A A A A A GAAAAAAAGGGAGGAACAGGAAGGAGAAAAAAGAAAG GAAGGACGGGGAAGAGGGAAAGGGGGGGAGAAGCAAAAGGGA A A G G GAAAAGGCCGGAAAAGAGAGGGGGGGGGGGGAAAAAAG G GAGGAGCAAAAGGGAAGGGGCCACCCGAGGGAAGAGAAAAG
 AAAGGAAAGGGAGAAGAAGAGCAACAAAACCGAAAAAGGGGA $A G G C A G A A A G G A A A A G G G G A G A A G G G A A G G A A G G A A A G A G A A$ C G GAACAAAGGGGAGAGAAGAAAAAAGAAGGAAAGGAAAAAA CAAAAGAGGAGCAAGAGGAGGAGAAAAGGGGGAAAAGAACCG G G GAAGGGGCAGGGGAAAAGGGAGAGGCCAAAAGAGAAAAAA G G G G G A A G G G G A A G GAAAAAAAAAAAGGAAGGGGAACCAAGGG A A G G G GAGGCCAGAAGAAAGGGAGGAAAGGAAGCCAAGACAG G G G GAA A A A A GAGCCGGAAGGGGAAAAAAAAAAAAGAAACCG G G G G G A A A A G GCCGGCCGGCCAAAAGGAAAAAAAAAAGGGGA A A A A A A A A A A A G GAACCGGGGCCAAAAAAAAGGCCGAAAGAA $A C C G G G G A A A A A A G G G G G G G G A A C C G G G G G G A A C C C C C C G B A$ AAAAAGGGGAAAAAAAAAAGGAAGGGGAAGGAAGGGGGAAAAG G G G G G A A A A A A G G G GAAAAAAAGGGGAAAACCCCGGAAGAAAC CAAGGAAGGAAAAGGGGGGCCAAAAGGGGAAAAAAAACAAAA A A A A A A A G G G G T T G G G G A A G G A A A A A A G G G GAAAACC G G C C C CAACCGGGGGGAAAAAAGGAAGGGGCCGGGGCCGGGGCAAAA A A A A A G G A A G G G G A A A $\mathcal{A} G G G G A A A C G G A G G G A A G A A G G A A A A$ $G G A G A A G A G G G G G G G A G G A A A A A A A A A A A A A A G A A A A A G G G A$ A A G GAGGCCGGAAAAGGCCGGGGAAAGGGGAAAAAACGGGGA
 A GAAAAAAAGGAAAACCGAAGAGGGAAGGGGACAACCAAGGG GAGAGAGCAGGGGCCGGGGAAAAGGGAAAAGGGGAAGCAGAG GAAAACGAGAAAAAAAACAGAGAAGGACAACAGGAACAAGGG A A A A A A G G A A G A G A A A G A TAAAAGGAGAGGAGAGGAAAA G G G $A$ AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} G \mathrm{G} A A G G G G G A G A A G C C G G A A G G A A A A G A A G A G A G A$ G G G A A G A G G G G A G G A G G A A G A A G A GAAAGGAGGGGAAAA G G G G GAAAACCCGAACAGGGGGAAGGAGCCAAATAGAGAAGAGAA $A C A G A G A A G G G A G A A C C A G G A A G A G A A G G G G G G G G G G A G G G C$ CAAAAGGCCAAGGGAAAGGAAGAAAGGAACCAAGGAAGAGGA AAAGGAAAAAAAAGGAAAAAAAACCCCACGCCAAAGAAAGGA AAAGGGAGGCAAAGGAAGGGGCCGGAAAAGGTAACAGAAAGC CAAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGAACAGEGGA A G G G G A A C C A A G G A A G G G GCC G A A A G GC CAAA A G G A A G G A A G GGGAGCCGCGGACAGACAGAAAAAAGGAAGGAAAAGGCCGGG GAAAGGAGGGAGAGGCAAAGAAGAGGGAAGGAAGGAAAACAA AAAAAAACCGGGGAGAGGGAGAAAAACAGAAGGAAAGAGGGA A A A G G A A G G G G G G A A A A G GAA $A \operatorname{A} A A A A A A A G G G G C C A A G G G G G$ G G A A A G G A A A G A A G GAAAAAAGAGGGAAGGCGCGAAGAAAAG G G GCA GAA $\operatorname{CAAA} \operatorname{A} A A A A A A A G G A A A A G A A A A C A G G G G G G G G G G$ $G G A A A A G A A G G G G G A A A G G A G A A A A G G G G G G G G G G A C A A G A G$ G G GAAA A A G GAGGCAGGGGAAGGGGGGAGACCCGGGGGAAAA GAGGGGGGGAAGAAAGGAAGAGAAAAAAAAAGGGGCCGGGAA GAGAGAACCCCAGAGGGAGGGAAGGAAGGGAGGAAAGAGAAA AAAGGCAGGGGAGGAAAGGAGCCAAAAAGCCCCAACCAAACAA A G G GAAGAAAAAAAAAAAAGGAAAAGAAAAAGGGAAAAGAAA A GACCCCAGCCGAGACACAAAAAAAAAAAGGGGGGGGTXGGG GAAGGGAAAAAAGGGGGAGAAAAAAAAGACCAAAGGGAACCG G G GAAA A A A G G G GAAAAGGGGAAAAAAAAATCAAGGGAGCAC AAGAAACAAGGAAGGGGGGCCGGGGAAGGGGAAGAAA
A A A A A A G G A A G GACCAAGAAAAAAAGAGAGGAAAGGGGAAA G G GCC G G A C C A A C G G G GACACCCGGGAGGGAAGAGAACAAAG GAAAAGGAAGGAAAAAGGGCCGGTTGGGGAAGGGGGGGAAAA

A A A A A A T G G G G G G A A A A A GAAAAGAGCGGAAGGGGGGGAGAA A G G G G G G A A T T G G A GAAAAAAGGGGAGGGGGGGGGGAAAAAAA GAGAGCCGGAGGGAAGAGGTTAAAGAGCCAGCCAGCAAGGGG GAAAACCAAAAGAAAGAGAGGAGAAAAGGAGGGGGAAGGGGG GAA A GA $A \operatorname{G} G C A A G A G G G G G G G G G A G A G G A A A G A G A A A G A G G A$ A G G A A G G G A A G G G A GAGGAAGAGAGCCGGGGAA GAAAAAG GA AAAGAGACCAAGAAAGGGGAAAAGGCAGAGAAACCAAGGGGG G G G GACCAGAGAAGGGGAAAAGAAGGGAAGGGAAAGGGAAAA GAA $A$ A A T A A A G A A G A G A T T G G G G A G G G G G G G G A A A G G A G G G G GTTACGGAAGAGGAACCGGAACCGGAGGACAGAGGGGAACCG GAAGGGGAGAAGGAAGGAAAAGGCCAGAAGGCAGAGAAGCCG GAA A G A A G GAAAA TAGGAGGAGGGAGGAGGAGAGAGAAGTXC CAAGGACGAGGGGGGAGACAGGAAAGAAAGATTGGGAAGGBA A G G A C A G G GC C G G G G G G G G A A A A A G G G G G A G G GA C A A G G A A A $A C C G G A G A G A A A C G G G G A G G G A A A G G G G G C A G A G G A G A G A A T$ TGGAACCAAGACCAAAAAAGGAAAAGAGGACACGGGGAGGAG A ACGAAGGAAGGGAAGGCCGGAAGGGGAACGGGCCAAGGCCG GCCGCAGAGGGGGGGGGAAGACCGGGGGAAGAGGGAAGGCCG G GAGAAAGAAGAGCAAAACAAGGAACCAAAAAAGAAGCAAAG G GAGGGGGAAGGACCAACCAAAGTAGGCCACCAGAGGGAAAC CAGGGGAGGGGGGACAGACACAAGACCGGAAGGCCAAAAAAA GAAGGGGGGAGGACCAACCAAAGATGAAAAAAAAAAAAACCA A G GAA A A A GAGACACAGGGCCCAAAGGGAGGAGGGCACCCCA A A GCA $\mathcal{A} G \operatorname{GGGGA} G G G A A G G A A A A C C G G G G G G A G G G G G A A G A A$
 AAAGGAACCGGAAGGAAGGAACCAAGGGGGGGGAAAAAAAAA AAAGGGGAATTAAAAAAAAAAAAAAAGGAGGAGAAAAAAGGG GAAAAGGGGAAAAGGAGGAGAAAAACCAGGCAAACCCAAAGB GAAGAAGGGAAATGGGGAAAAAAGGGGACAAAGGGGGAGCAA C GAGAGAGAGAACGAAAAAAGAGAAAAGGAAAACGAAGGGGG A G G G GAACCAAGGAAACGAAACCCCAAGGAAAAAGGGGAAAG AAGGGGGGGAAAAAAAAGGCACCAAAAAACCAAAGAGAGGGG ACCGGGGGGCAGGAGAAGAAGGAGGAAGAGACCAAACAAGGG G G G A G G GCCAGAGGGAGGCGGAGAAAAGAAGGAGAAAAAACG $G G A T T C C G G A A G G G G A A A A G G G G A C G G G G G A G A A G A A C A A G G$ A G G A G A A A A G G A G A GAGAA A A GAGGAAGGCCCCAA GGGAAAA AGGGGGGTACCAAAAAATAAGAAAAGACCAGACAAAAGGGAA AAAGACAGAAGAAGGGGCCCCAGAAGGAGGGAGAGAAAAGAG A G GAGGGCAAGAGAAAAGGGGGGGAGGGGAAAACCAAGAAGA A G A A A A A A C G G A A G G G G G GCC G G A G GA GAAA A A G G G GA G G G G A A A A A G G G GCCGGGGAGAAGGGGGGGGCCAAGGGGAAAAAGB
 AGGCAACGGAGACAGAAGAGGGGGGAAAACCAACCGACACAG A A A A A A A G GAA A GAGAACCGGACAACCAGGAAAAAAAGAAAA A A A A A A A G G G GATGGAGGAGGCCGGAGAAGGAAAAGAAACAG G G G G G A A G G C C A A G A G G A A A A C A A C G GAA G GA GAA G G A A A G G A A A A G GAA A A A GAA A ACGGGGGGCCAAGGAAGGCCAA GAA GC C G G G G A A A GA $\operatorname{A} G A A A G G A A A A G G G G C C A A G G G G G G C C G G G G A$ AAAGGAAGGGGGGAACCAGGGAACGGAACAAAAAACAGAAGG GACGGAAGGAAGGAGACAGCCGGGGGGGAGAGAAGAGGAAGG G G G A A G G A A A A A G G GAGGGACACAGGGCAGGAACCAAAAAAA ACAAGCCGGTTAAACAGAAAACCCCAACCGGAAGGAACCGBAA GC G A G A A G A A G G G A C G G A G GA G GA G G G A A A G G G A C A G G A A G G GAGAAAAAGAGAACGGAGGACAGAAGGAAAAGGGGAAGACCG AA $A A G C A A A G G A A A A G A A G A A A A G A A A A G G A G G A G G A G A G A A$ GAA A G G GAAAA $A \operatorname{A} G \mathrm{G} G A A A A A A A G G A G A A A A G G A A G G G G G A G A G$ G GAGACAGGAAGGAAGGCCCCAAAAGAGGCCGAAAAAAAGGC C A A G A A A G A A A G GAGACGGGGCCGGAAGAGAGGCCAAAAAAA $C A G G G A G C A G G G A A G G G G G G A A G C C C C G A A G A G A G G G A A G G A$

G G G GAGGAAGGCCGAAAAACAGAAAGGAGGGGGAAGAACGGC CAAAAGGGGAAAAGAGGAAGGAAGACAAGAGAGGAACBAGAG GAAAGAAAAAAAAAAAAGGAGAAAAGCCCGGAAAAGAAAGAA AAAAAGGAAGGGGAAGGGGAAGGAAAAGGAGAGCAAAGAAAG G G GAAAGAACCAAGGAGAAGAAACCAGGAAAGAAGAGAGCAA ACAA C G $\mathrm{A} G \mathrm{~A}$ GAAGGAAGAGGGAGGGCCAGAAAGAGGGACGAC C G G G A C C A A G A G G G G G G G G G G A G G G A A A A C C C C C C G A G G C C G G G G G GAA $\operatorname{G}$ GAACAAAGGGACGCAGAGGGGAACCAAAAGGGGA A G G A A G G A C A A C C C C A G G G G G G G G G G G A A G G G G G G A G A A G G C $C G G A A A G G G G A A C A G G G G A G A A A A A G A G A A A G A G G A G A A G A G$ G GAGGGACAAAACAGCACAGGGGAAAAGGGGAAGAGGCCGAC C G G A A G G G A A A A A A A A A A A A A A A GAAA G GAAACAAA A A A G G C G GAGGAAAGAGACGAAGGGAGAAGGGGGGGGGGGGCCGAAAA A A A C A A CAGGCGG GAGGAAGAGGCCAATTAAAAGGAGCAAAA G GAAAAACCAAGGGGCCGGGGAAGGGGGGGGGGGGAAAAGGC $C G G A A C C G G C C A A G G A C A A G G A A G G A A A A G G A A C C G A A A A A G$ G G G G GAGCCAGAACCCCAGAGCCGAAGGGAGGGCCGGAAAGG A G G G G A A A GCC C G A A G GAAAAGGGGAGAGACAGA GAAAAAAG AAAAAGGGAAAAGCACCAGGGGGGGCCCCGGGAAAAAGAGAA
 AAAAGGGCCAACCAAAACGAAGGGAGGGGGGAAGGAGGAAGA GAA A A A GCAGGAGAAAAAAAAAAGGAGGGAACCGGATGAGGC CAAAAAGGGGAAGACAGCAAGAAGACGAACCAGAAGGCCGGG G A A A A C A A A A C A A G A A A A A G G G GCCAA GAGGCCCCCACCGGG A GAGAGGAACCGGGAAGAGGAAAGAAGAAGGAACCAGGAAGG A A A A A A A GAGGGGAACAAAGACCCCAGGAGAGGACAGAAAAC C GAGAATAAAAACAGAGGAAAGGAAGGAAGGCCGGGGAATAA A A A G G G G G GCA $\mathrm{C} G \mathrm{G} G \mathrm{G} G A C C G G A A C C A A G A A G A A G A G G G G A G G$ G G G G G G G G GAA $A \operatorname{A} A G C C A G A G A C C C A G G A A G A A G A G A A A G G A$ A A TAAAGCAGAAGGAGGGGGGGGGGGGAGAAAACAGGAAGAG GAGACAGGGAAGGGAAGGAGAGGAAGGGGAGAAGGGGA $\operatorname{A} A A A B A$ A G G G GCCGGGAAAAACCGGAAGGGGGGAAGGTTXGGGGGGGA AAACAGGGAAAAAGGGGAGCCAAGGGGGGCCCCCCGGAAAAA A G A A A A A GCAAAAACAAAAGGAGGGAAGGCCGGGGGBAACCB GAACCCCCCGGGAAAAAAAGGAAAAAAGGAAGGGGAGAAAAG GCGCAGGCCAACCAGAAGGGAGGAAAAAAGGCAAAAACCGGC C G G GAGGGAAAGGGGCCAGGAAAAAAAAGAAGGAAGGAAAGAC C GAAAGGAAGGGGGGAAGGGAAAAAGGAAGGAACCGGGAABA A A C G A A G A G T A A A G GAA A GCCGGAAGGGGACAGACGGA GA GA GAAA A $A \operatorname{G} G \mathrm{G}$ GAACCAAGGAAGGGGGGGGAAAAAAGATXAACCG $G A A G G A A G G G A G G A C G G G A G G G G A G G A G A A A A G A A A A G G C C G$
 AAGAGCAGGAAAAGGCCGGAAGGAAGGGACCGGAGGACAAAG
 A ACGGCAGAAGAACAAGGGAAGGGGAAACGAGGGAAAGGGGA A A G A A A A G G A G G G G G G G A A A A A G A G G G G A A A G G A A A A G A G G A GAAAAGAGAGAGGGGGGAAGGGAGAGAGGGGAAGGGGAAACA A A GAA A G GAAAACGGGGCCGGAAAAGGAAGGGAAAAAGAATA G GAA $A \operatorname{GAA} A A G A C A G A G A G C C A A G A G A A G C A G A G G G G G A A A G$ GAAAAAAAAACGGAAGGAGAAAACCCAAAGGAAGGAAAGGGG GAAAAGGAAGAAGCCAGGAGAAAAACCGGAAGAACAGCCGGA A G GAA A G A A A A G GAAAAAAAAGGGGGGGCCGAAGAAAGAAGAA G G G A A G G A A A C A A A GAC $\mathcal{A} G G G G G A C A G G A A C A G G G A A A A G G G$ GAAGGGGGGAAAACCGGGGGGGGAAAAAAAAGGGGGGCAAAA $A A G G G G A T T A G G A A A A G G A A G A G C C A A A A A A G A A A G G G G A G G$ G GAAAAAGGAGGGAGGGAAGACAAGAAAAAAGGGGCC
$A G C C A A A G A G G A A A C C A A G A A A G G A A G G A A G A C C A C A A G C A$ $A C C A A C C A A A G G G G A T A A A A C G G G G A G A A A A A A G G A A G G A G C$ AAGGAAGGAGACCGGGGAACCAAGGAACAGGAAAAGGCAAAG
$G C \subset A A G G A A G G C C G G C C A A G G G G G G G G A A A A A A G A G G A A A A A$ A G G A A A A A A A A A A G G G GAAA A A A A A GGGGCCCCGGAAAAGAG A GAGAAACAGGGACCAGGGAAGGCCGGAACCGAGGAGAAGGA A G G G G GA $\operatorname{A} G A A G G A A G G A A A A G G G A G A G A G A A C A A A A G A A A G$ GAAAGACAAGAAAGGAAAAGAAGAAAAAAGGAGGGGAGACAA AAAGGAAGAAGAACGAGAAAAGGAAGAAAAAAAAAGAGACBC A G G G G G G G G G G A A G GAAGGGGCCGAGAAGAAAACCAAAAA GA ATAAGAAGGAGAGAGAGAACAGGAGAGAAAAGAGGGAAAAAG GAAAAAGGGGAGAGGGGAAAAGGGGGAGACACCGGAACAAAA $A C C A A A A A A G A G G A G G G A G A C G A A G A A G G G G A G G G A A A G G A A$ A G GAGGGAGAAGGGACCCCAGGGAAGAAGAGAAGGGGGACAA AA $\operatorname{A} G \mathrm{G} A \mathrm{~A} A A A G A G A G C A C C G G G G A G G G G G A A G G C C G G A A A A A$ A A A A A A A A $\mathcal{A} G G G A C C G G G G C A G G A A G G A A G G G G A A G G G G G B A$

 GAAAAGGGGAAGGGAGGGGAAAAAAGGAGCAGAGCAAGAGBA
 GAGAAAAAGCCAAGAGGAGAGACAGGGAGAGGAGGAAAAGAA CACACAGGGGGAGAGAGGAGGCCAGGGGGCCGGGGAGGAGAG
 AGGGAGGGGGGAGAGCAGAACCCGAAGAGGGGAAAAACAAGG G G G G GCCACCAAAAAAGGACAGGACAAGAGGGGAAAAGGGGA GCCGGGGGGAGAACCGGCAAACCGGGGCCGAAAAAGGGGTTG G G G G A G G C C G G G G C C A C G G A A A A A G C CAAAA A A GAC C G G G G G G G GCCAAGGGGAAAAAAGGAAAAGAAAACGAAAAAAAGAGGG GAA A A A GACGAAAGGGGGGGGAGAGAAACGGGACC GAA GA G G G G GAA $A \operatorname{A} A C G A G G A A G G G G A A G G G G G A C C A A G G G G G G A G A A G$ G G G G A C C A C A A G G GAGCAGGGGGAGAAGACCGGCCAGAAAAA A G GAACCCCAGCCCCGGAGAAGGGGGGCCGGCCAAAAGGGGA CAACCAAGAAGGAGACCGGGGACAAGAGAACAGGAAAACAGC A A C G G G G A A G A G G A G G A A G G G C A G G A A A G A A A A G G G G G G G G A A G GAAAAGGAAGGGGAAATGGGGGGAAGAAAAGGGGGCAAAG G G GA GAAGAAGACAAGGCCAAGGAACCAACCGGGGGGAAAAA AAAGGAGAAAAGGGGGGGGAAAAGGAGAAGGAAAAGAGACAA GAAAAAAGGGGAAGGGGAAAGAGAAGGCCGGGAACBAAGGBA G G G G G A A G A G G G G G G A A A G G G G A A G G A CA $\mathcal{A} G G A G A A G A A C A A$ A G GAGGGGGAAAGAACCAAAAGGGCCAAGAGAAGGACAAAGC $C G A G G A C G G C C A A A A A C G A G G C A A A G G G G G A A G A G A A G A G G G$ GCCATGGAAGGAAAAAAAGAAAAGGCCCAGGCAAGCCAAAAG G GACCGGGGAAAAAAGAGGGAAAAAAAAGGAAAGGAAAAGGG $G G A A A G G G G A A G A A G A C G G A G G A C C G A G G G A G G G A A A A A A A A$ A A A A A C C C C C C G G A A C C A CAA G G A A A A A G G G G G G G G G A A A A $A C C A G A A A G C A A A A G A C G G A A A C G G G A A A A A G G C C G G G G G G A$ A A G G G G G G G G G GAA A G G C C G G A A G G G G A A A A A A GA GA GAAAA
 C C A G G A A A G G G A A C A A GAGAAAAGGAGGAAGGAAACCGACAG A G A G G A A G A G A A A G G C C G G A A A G G G G G A A G G G A G G A A A A A A A A G G G G A A G G A G A A C C A A A G G G G G G G A A G A A G G G G G G G G G G G G GAGCAAGCAAGAAGGAAAAGGGGAAGGAACAGGAGGAGAAAA A A G G A G G A GAGGGCCAAAAAAGGAAAGAAGACAAA GAGGGGC C G G A A A A A A G G A A A A G GAGAGAACCAGAGAAGGAACCGGGGA ACCA $C$ G $G G \operatorname{G} A C A G A G A G G G G G G A A G G A G G G G G G G G G A A A A A A A$ A A G G G GAGGCCGGAAAAAAGGAAGGAGGAGAGGGGAGACAAAA AA GAGAAAAAAGAGGGAGGGGAAAACCAAAAGGAGGAGACAC A G G G G G G G GAACCCCGGCCAGAAGGGGAAGGCCGGACAAAGA G G G G G G G C C G G G G A A G G G G A A G G A A A A G G G G G G G A A G A A A A A $A G G G G G G G G G G G G G G A A G G G G A A A G A G G A A G A A A G G G A A G A G$ GA G GACAGACAAAA GAAAGGGAAGGAAAGGGACAAAAGAAGAG $G G G A A A G C C A G G G A A G A G G G A G G C C G G G A G G G A G G G A G G A G A$

G G A A A A A A A G G G GAGGGGGGGGAAATACCCCGGGAAAGAAGA GAGGAGGGGGGAGAAGACCCCACAAAAAAGAAAGGACAACCG AAAAAGGAAGGAGGGCCGAGGAGACGGGGGGGGGGAAAAGGG GAAAAACGGAAGGATAACAAGAACCAAAAGGAGGAGAGAAAA A G G G GA GAGCCAGGGACGGGGAACCGGAACACCGGTAAGAAA GAAGGAAAAAAAAAAGGCCGGACGGCCAAAAGAAAAAAAGBA
 A G A A A G G C C G G A A G G G G G G G G G G G G G A G G G CA A $\mathcal{A} G A G C C G G G$ G G GAGAGAGAGAAAGACAGGAAGAGACGGAGGGGGCCCCCCC $C G A G G C C A C C C A A A A G A C C C C C A A A G A A A A G A G A G A A A G G G G$ GCCGAACGGACGAAAGGAAGGCCGGGAGGAAGGCCAGGAGGA C TAGGAAAGGAACGGACGACAGAGAAAAAGGAAAAAAGAGGA GAAAAAACACCGGAGCCGGGAAAAAAAGGGGAGAGAGGAAGA A A G G G A A G GAGGACAAAGAAGAAGAGGAGGGTAAAGGAAAAA
 TAAGGGGAAGAGGAAAAGAGGGGAGGGAAAAAAAAAAAAAGA G G GAATTCCGGAAAAAAAAAACCCCGAGGGGAGGGAACACAC C G G A A A A A A G GCCCAGGAAAAAAAGATACGAAAGAGGCAAAA $G C A A A A A C C A G A A G G C C G G G G G A A A A A A G A G A G G G A G A G G G C$ AAACCGGCCAGGAGGGGACAAGGAAGGAACCAGAAAAABAAG G G G GAGCGGAAGGGGGAGGCCCCAAGGAAAAAAGAGGAAGAG A GAGGAGAAGGAGAAGGGAAAGGAAAGGAAAACAAAAGGGAA $A G G G A A A A A G G G G G G A T G G C C G G G G G G A A A A G A G G G G G G C C C$ A G GCCGGAAGAAAGGGGAAAAGGCCAAGGAAAAGGGGGGGAA C G G G A G G G G C A G A G G G A A G A GCGGGGAAATTAA G G G G C C C G A A AAGAAAAAAAAGGTAACAAGGGAGGAAGGGGCAAAACGGAGA
 ATTGAAGGGGAATAACCGGCCGAAAGGGGAGGGAGAGEAGAG
 AAGACAGGGCCGGAGGACAGAGGCACCAGGGAAAAAAAGGAA C G G A A G G A A G A G A A G G G G G A A A G A C G G A G G G G G G G A A G G G A G AGAAAGGGGAGCCGGAAGAAGCCGGGAACAGGGAAAAAGGGA
 GAAAAAGCAAAAAAAAAGGGGAAGGACAAAAGAACAGAAAGAG G G G A G G G G G A G A A A A A $\mathcal{A} G A G G A A G G A A G G A C G G C C G A A A A A G$ G GAGGACCCCCCCGGGGGGAAGGGGCCAAGGCCGGGAAGGGG GAGAGAAGGAGAGGGGACCACAACAAAGGAGAGGGAAAAAAA $C G G C A A A C C G G A A G A A G A G A C A G G G A A G G A A A A A G A G G A A A G$
 GAAA $A \operatorname{A} A \mathrm{~A}$ GACCGGAAAAGGGAAAGGGGGAGGAAGAAAGGGGG G G G G GAAAAGGAAAAGGAAACACGGGGAAAAGAGGAAGAGGG GAAAAGGGGCCAACCGGGGCCCCGAAAGAAAGGAAAAAAAAG GAAAGAAAAGGAAAAGGGGAAAGAAGGAAGAGGAACACAAAC A A GCCAAAAGGGGAAGGGAGAAGGGGGAAGAAAACGAGACAA ACCGGAACCAAGAAGGAGGGAGGGGGGCCGGGGAAGGGGGGC
 G G G A A A A G GAA $A \operatorname{GA} A A A A G G G G A A G G G G C C A A A A G G G A A A G G G$ GAAGGAAGGGGCCGGAAAAGGGGAAGGGGAACCAAAAGGGGC C G GAAAAAAGGAAGGAAAAAAAAAAAAAAAAAAAAGGCCGGA A A A A A A A A A A A G G G G G G G GAAAAGGAAGGCCGGAAGGABAAG G G GAA A G G G G G A A A A A A G G G GCCGGCCGGCCAAAAGGAAAAC CAAG $A \operatorname{AAA} A A G G G G G G A A G G A A G G G G G G A A A A G G G G A A G G G G G$ GAAAAGGGGAAGGCCAAAAAAGGAAAAGGGGGGGGGGGAAAG G G G G G G GAAAAGGGGGGAAAAAAGGCCCCGGGGGGGGGAAAA G G GAAAAGGAAGAAGAGAGGAGGAAGAGGGGAGAGAGAGGAC CAAGGAGAGGGAGGGAGACAAAAAAACGGACAGGGAG
CAGGGGAAAACAAAGACAGAGGGAGGGGACAAACAGAAGGA $A C C A C G G G G G G A A G G C C G A C C A G A A A A A A A A G G A A A A G G G G A$ A G GAA A GCCGGAAAAAAAGAGAGAGGGGGAACAAAAGAAAGG

A A A G G A G G G G A A G G G A A G G A A G G G G G G GAAAA $A \operatorname{A} G G A G A A G C$ A A G GAGGGGACCCACGAGGCAGGAGGAGGCCAAAAGGGAAAG GAAAACCGGAGAACCAAGGAGAGAGAAACGGGGGGAAAAACB GAGGGGGAAGGCCAGAGGGGGGGGGGGGGGAGGA$G A A A A G G G$ $A C C G A G A A G G G C C A G A A A G G G G G C C G G G G G A A A G G T T G G G G G$ G G G G G GAGGGGCCACCGAAGGGGGGGAGAAGAAAAAGAAAAG GAGAACCAAGCGAGAGGGGAGAGCCGGGACCCCGGAAAGAAA $G C A A A G G G A A A A A A A G G A T A A G G G G G G A A A G A A G A A G G G G G T$ T G G G G A A A C G G G G G A C G A G G G G G A A A A A A G G A A A G G A G G G G G GACGGAAAAAAAGAAGGGGAGAAAAGGGACCCCGAGGGGAGA G G GACGGGGGGGGAGCCGGAAAGAGAAAGGAAAAAAAGGGAA ACCGGAACAAAAGAAGGACAACCGGAAGGAAGGGGAAAAAAG GAAGGGGAACCGGAAGGGAAGAAGGGGAAAGAAGAAGGAACB G G G A A A A A A A G G GAGAGAGAGGGGAAAAGAGGAGGGGCAAAA GAGGGCAAACAGGCCAAGAAGAGGGCAAACCAGGGAAAGGGA GAGAGCAAGGAAAAAAAAAGGGGGAAACCGAGGGGAGCAGAC
 G G GCCAAAGGGAGAAGGGGAAAGGGGGAAGGGGGGAGGAGAG AAAAAAAAAGGGGGGAGGGAAAGAGGGGAACAGAAGAGAACA
 GAGCAAGAGGGAAAGGAAAGAAAGAAAGGCCCCGGACAAAAG GAAAAAGCCGGAAGCAGCAGAAGAAGGGGCCGGCAGAGGGGA G G G G G C C G G C C A G A GAA $A \operatorname{GGGGGAGGAGGACAGAGGCCGAATC}$ C G G G A G G A A A A A A A A A A G G A A G A A A T TAAAAA G G G G G G G G G A C
 A GAAAAAGAGGACAGGGGACCGGAAAGAGGGCCGAGGGGAGA GAGAAAGGAGGCAAAAGAGAAGGAAAAGGAGAAAAAACACAA $A C C A C A G G G G G A G G G C C G G A A G C G G G A G G A G A A C A G A A A G G G$ G G A G G G G G A G G G G G G G G G G G G G G A A G G A C A G GAC G G G A A A A A AAAAGAACCCCGGAAGGAAGGAGGGCCAAGAAAGGAACACCB A A C A A GAAACAAACACCAAGGGGAGAAGAGAGGAAGGAGACAA GAA A GAAAATTAAAAGGGGGGAGCCCCGGAAGGAAAGAAGAA G GAA $A$ A $\operatorname{A} A A G G G G A G G A A A A A G G A A A A G G G G A A C C A A A G G G G$ G G GAA $A \operatorname{GCA} A A A G G A G A A A A A A A G G G G G G A A A G G A G G A A A C G$ $G C C A A A A G G A A C C C C G G G G C C A C G G A A G G A A A A A A C C G A A A G$ G G G G G G G G G G G A G G G G G C A A G A A G A G G A A GAC C C C A A G G G G G G G G G GAAAAAAGAGGCCCAGAAGGAGGGAGAGAAAGGGGGAG GAAAAAACCAACCAAGGGAGGGGAAGGAGAAAAAAGGAAAAA A A G G A A G A A G G G G G G G G G A G C A G A A C C A A G G G A A A A G G G G A G ACCAAGGGACCGAAGCAGACCGGAAAAAAAACGCGGGAAAAA A A A GAGAGAAGACAAAGAAGGAAGGAGCCGGGAAAAAAAGAA $A G G A A A G A A G G G G A A G G G G A A G A G A G G G G G G G G A A G G B A G G G$ G G GAA $A \operatorname{GA} A A A A G G G G G A A G G A A A G C A G G A C A G G G A G A A A G A$ GAAACAAGGGGAAGGAAAGGAGAGGGGCCGGAAGAAAGGGAA A G G GAGGAAGGCCAACCCCGAGAGGGGGGGAGAGAAGAAGGA GAACAGGCAAAGGGGAAAGAGGGAAGAAGAAGGCCGAAGGGA GA $\operatorname{G} \operatorname{G} A \mathrm{~A} G A \operatorname{A} A A G G A A G A G A A G G G G G G G A G G G G G T T A A A G C C A$ CAGACGGGGAGACGAAAAGGGGGAAGAAGAAAAAAGGGAGGA A G G G G A G G GAA $A \operatorname{G} G \mathrm{G} A A A A G A G G G G G G G A A A A G G A G A C G G G C G$ GAGAGAGACGAGGACAGGAAAAGAAAGGAAAAAAGGGGGGGA A G G GAGGGGCCAAAAAGGGAACAAGAGAAAAACGGCCCCCBA GAGGGAGAGGGAAGAGAAGAGAAGGAAGGAGCGAA GGGGGGA A A G G A C C G G G A A A G G G A A A G G T T A A A A G A A GA G G G G G G G G G A G GAGGGAGGAACCAAGGGGAAGGAGAAGGGGCCGATTACGAG GAGGAACGACCTAAGGGAAAGGGACGAGACCGAAGACCAAGAA ACAGGAAAAGGAAAAGGCCGGGGAAAAGAGGGGAACCGAAAA A G G G G G G G GAA A G G G A GAGAGGAAAGAAAAACCCAGGAAAA $A$ GCGGAAGAAGGGGGGAAGGACCAGGGGGGGGAGAACCCACAA A G GAGAAGAAAAAACGAAAAAAGGGATGGAGGAGGGGAAAAC

CAGCCAGAACCGGAAGGAGGAGGGGGGAAAAAAGGGGGGAGA G G GCCCCGGAAAAAGAGGGGGAACCCAAGGGGGAAAACABAA A A A A G GCGGGGAAGAACGACCGACCGGGGGAGGGGGGCCGGG GAGAGAGGGAGAAGGAAAAAAGGGGAAGGGGAAACAAAAAAA A G G G GAACCAAAAGGAAAAGGGAGAGGTTCCGGGGCCCCGGA
 AAAGGGGGGGGAAGGAAAAGAAAAAAAGGGGAAAGAAAAAAC GAAGGGAGGGGGGAAGGGGGGGGAAGGAAAGAAAAAAGAAGG A G A A A A A A G A A A A A GAAAGGGCCACAAAGGGACCA GAGAGGC $C G G A G G G G A A A A A G G A A A G C A A A G G C C A A A A G G G A A G G G G G G$ A GAACGAGGAGCAGGAGCCGAGAGGGAAGCAAGAACCAAAGA $G C A C C G G G A A G G G G G A G A G G A A A G G G G A A C G A C G A A A A G G B A$
 A G GAGGGGGCCCCGGCAAAGAAGGAGAGAAGAAGGGAAAAAA AGGAAAAAAAAAACAAGGAGAAACCGGGAGGCCGAAAGAAAG $G C C C A C C A G A G G G G G C G A G G A A A A A G G A G G G A A C C A A G G C C G$ A A G GAGAA $A \operatorname{AGGGGA} A C C A A G A G G A A A A G G A G A A G G A G A A A C G$ A G GCCGGGGGAGGGAAAAGCCAGGGAGGGAAGGAAAAAAGAA C GAAAGGAAAAAAAAAGGAGCAGGAGGGAGGAAGGCAAAGGA C C C A G A A A A G G A A A A G G G G A A C C A A A C G G G G C C G G G A A G G G G G G G G A A A A G G A G G A G G G A A C C G A G G G G G A G A A A A GA G GAA G C CAGGGAAAAACGGGGCCAAGGCCGGGCAAAGAGAGGGAAAAA A G G A A GA GAGGAGGGAAAACCCGGGGAGGAAGGAAGGAGAAA A G G G G A A C C A A G G G GAGAAGGAGGGAGAAAGGGAGAAAAAA $A$ GAAGAAAGGGGAAGACAGGAAGAAAAGGGGGAGAAAAGGGGA A G G G G G G G G G G G G G GAA $A \operatorname{GGG} \operatorname{GAAAAAAAAAGGCCGGGAAAAAA}$ A G GAAAAAAGGAAGGGGGGCCGGGGGGAACCGGGGGGAAGAC C A A A A G G A A G G A A G G A A G G G G A A G G A A A A A A A A A A G G G G G G G G G GAA $A \operatorname{GAA} C \subset G G G G C C G G G G A A T T G G A A A G A A G G G A G G G G G$ GACAAGAGGAGAAACGAGACCGGAAAGCAAGGAGGAGAGACB
 GCCGGGGGGGGGGAAGGAAGGAAAAGGGGGGAAGGAAGGGGA AAACCGAAGAGGGGGAAGGGACACCAACCGAAGGGGCAAAAAA G GAGGAAGGTTAAAACCAACCAAGGGGAAAAGGAGGAGGGGG G G G A A A A C C G G G GAAA $A \operatorname{AGGAACCGAGGAAAGAAGGGGAGCAA}$
 A A A A A G GCCGGGGGGGGAGGGGGGGGGGGCAGAAGGGCCGGT TCCAAGGAGCCAAGGACAGGGGAGGGGAAAGGGAAAAAAAAA A GAA A G A A A A G A A A G G CAAA A G A A CAGGGGGGATGAAACAAAA GAA A G G GAA A G GAAAAAAAAGGGGAAGAAACCGGGGCCGAABA A GAACAGGGGAAAAAGGAGGAGGGACCGGACAGCCCCAAAAG G G G G A G A G A G A G G A G G A A G G G G G A A A A G A G G G G A A G G G G G G G GAACGGGAAGGCAAATXCAAGAGGGGGCCGGAAAAAACAAAA $A G G G G G G G G A G G G A A C C G A G A G A G C A A G G G A A A G G A G A A A G A$ A GAA A G G GC C G GCA $\mathcal{A} G G A G G G G A A G G A G A A A A A A A G A G G A A A A$ A A GAA A G A A A A ACCCAGGAGAGGGGGGCAAAGGAACCAAATA G G GAGGACAGAGAGGCCGGGGAAGGGGGAGGAGAGCAAAAAG AGGAGAGGGAAAGAGAGAGGAAGAGGCGGGGAAAAGACAAGA AAAGGGGGGGAGGGGAAAAGGAGAGAAGGGGCAACCCAAAGAA A A G G GCC $C$ G G G G G G A A A A G A GAGAGAGCAGGACGGGAGAGGC A G G G G G G G G G A G A A T A G G G A A G G G G T T G G A CAAAA A A GA GAC AAAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGAG A G GCAAAGGAA G G G G GAAAAAAGGGGAAAGGGAGGGGGGAAGA A G GAGGAGAGGGGGAAAAGAGGAGGAGAGCAGGGAAGCGAAG G GAA A A C G A GAGGGAGAGGACGGAAAAAAGAAACAAAAGGCC $C G G G G G C C C G A A G C C G G G G G G C C A A G G G G G G A A G G C G$
CAACGGAGAAGAAGGGGGAGACGGGGGAAGACGAGAAGAGC C G G G G G G A C A G A A G G G A A G G G A A A G GAA A A G G G G A A G C A G G A GAAAAGAAGGAAGGGGGAGGGGGAGGGAGGAAGAAGAAAGAA

A G G GACCAAGAAGGGAAAGGGGAAGGAAGAAGGACAAGACAG GGGAAAACCAAAAAAGAAACACAAAGGGGAAAGCACACAAAA GAAGGAAAAAAGGAAAAGGGACAAAGAGGAAAAAAAAAAAAA G GAAAGGAGAAGAGGAAAGGGGGGAAACCAGAGGGAAAAGGG GAGAGAAGGAAGGGGAACCGAGAAGAAAAGAAAGGGGGGGGA
 A GAACGACCGAAGAAGGCCAAAGGGAGAGGGAGGGCCGGGGG GAAAGAGAGGCGAAAGAGGGGAAACAAGGGGGGAGGGGCGGG
 GACAAGGAGCGAGGAAGCAAAAGGGAAGAGAGAGAAGGAAAG A A G GAAGGACCGGGGAAGGGGAAAAGGCCAAAACCCCAAAAG A G G G G A G A GAA $A \operatorname{Ag} \operatorname{G} \operatorname{G} G A G A A G A A A A A G G G G A G G A A A A A A C A A$ C G G A A G G A A A GAGGGCCCAAAAAAAGGGGAAGAAAACCAAAG $G G G A G A C A G A A A A A G G G G G A A A A A A G G G G A G G G A A A A A A G G G$ GAACCGGAAAAAACCGGGGGGGGGGAGGAAGAAGGGGAGAAG GAA A G GAGGGGGAAGCAAGGGAAAAGAGGGGGAGAAGGGGGG
 GAATTAAAGAAAACCCCAGAAGACCACGGCAGGGGAAAGAAA A G G A A GAGGGAGGAAAACCAAAAGGAGATATAGGGGGGGCCG G G G GA G GCCGAAAGAAAAGAAAAGAGGGACAAAGGAAGGGGA A GGAAGACAAGAACCGGGAAAAGAACCAGACGAAAAGGAAAA GACGGGAGGCAGGGAACAACCGAAGAAGGGGGGGGAACAAGA TGGAACCGAAAAAAAGAAGCAACAAGGAAAAAAAACCAAGBA A A G GAGGGGGGAAGGGGCAGAACAAAAAAGGAGAGGGAGGAA AAAGGGGAAGGAAGGAACAAAGGAAGGGGGGCCGGAAGGGGG GCCAAGGAGAAAAAAAGAGCCAAAGGGCAAACACCGGCAGGG G G GAA A A GAGAGAAGCAGACAAAGAAGAGAGGGACGGGGTTAA A GAAAAGAGACGGAAAGGGAGCAATGACCGGAAAGAGAGAGC A GAG $A \operatorname{GG} \operatorname{T} T \mathrm{~T} A A A A C \subset A A G G A C G G G G A C G G G G G G G A G G G A G A A$ G G G G G G G A A A A A A G GC G T T G G A A GAGGAAAGAGAA G GAA A G G GAAAAGGACAGGGAAAAGGCCAGAGAAGGAGAACAGGGAGAA AAGAGCCACGGAAGGGAAGAACCGGAAGAAAACGCGAGAAAG GAAAAAAAAAAAAAAAAAAAAGAAAGAGGGGGGGGAAAAGAG GAAACAGGAAGAATAAAGGGAAACCAAGGAGGAGGGAGAAAA ACAAGAAGGAAAGGGAAGGAAACAGAAAAGCAAGGAGGAAAA A G G G G A A A A G G CA $A \operatorname{GGGGGAAGGAGGAGAAGGGGGCGAAAAAG}$ AAAGAGGAAAGAACCGGGGGGGGAAAAAAGGAAGAAAAAGGG A G GAGAAGGGGAAAAGGGGAAAAGGGGGGAACCAACCAGGAAA CAGCAGCGACCGGGGAAGAGGGGGGACGAAGGGAAAAGGGGA GCCCCAAAAGGAAGAACGGGAAAGAAGGGGGGGCCAAGAGAA GAAGGAAAAGGGAGAGGAGACCCAAAAAGGGAGGGAAACAAC
 AAAGAAGAGGGGAACGGCCGAGGAAAGGGGGAGGAGCACBCA GAAGCAGAGGGAGGAAGAGACCACAGGCCAAGGAAAAAAGEG G GAAGGGAAGGAAGAGGCAAAAACCAAAACCTAGGGAAAAAG A CAG G A A G A G G G G G GAAGGGACCAAGGGGGGCCAAAACAAAG GCCGGAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGAAACB
 G G A A A A A A GAAAAATAAAGGGAAGGCAAATTAAAAAAAACCA A A A A A A A G A A ACC GACCAAAAAGGGGGAAAGAAAAGAAACCG GAGAGAAATGGAAGAGGACGCACAAAGGAAGTACAAAGAAAT TAAACAACCAAAAAAGAAGAGAAGGGGGACAAGAGAGCAAGA GCAGAAGGGAGGAAGGGACAGGAAGGGAGGAAAAAAGCAAGC AAAAGAGAAGGGGGGCCGGAACCGGGAGAGACCGAAGGAAAG AA GAAAAGAGACAAATAAAAAGAGGAAAAAAAACCAAA GAGA AA GAACAAAGACAAACAACCAGGCCGGGAAGGATTAAAAGGG AAAGAGGAAGAGAAGAAAAGGCCACGGGGAGAGGGCCAAAAG G G G G GAA $A \operatorname{GCA} G G G A A A A A C C A G G G A G A C A C G A G G A A C C G G A$ GGGAACCGGAGGCGAGGAAAAAAGAAGGGAGAGGGGGGAGGG

G GAAACAAACCAAACAGGGAAGAAGGATTGAAACAAAAAAGC C G G G G A GCCCC $C$ C G G G G G G GAAAAAAAAGAAAAAGGAGGGAAAC A G G GAGAAAACGGAAAAGGAAAGGAGAGGAAGGGGGGGAAGAG $G C C A G G A G G A A A A G G G G A A G G A A G A G G C C C A G G A A A G A A G G G$ G GAAAAAAGGAAGGGGACCAAGGAAAAGGAAGGAAAGABAAA ACAGAGAAGAGAACACCCGGGGGCCAGAGGGAGGAGACAAAG G GAGGGGAAGGACGGGGCACCAAACGGGGAAAAAAAGAAAGC CAAGGAAGGGACCAAAGTTAAAGGGGAAAGGGAGGCCGGGGA GAAAAAAGAGGAACCGGGGCCGGGGGGAAGGAAAAAAGAAAA A G GAAAAAAGGAAAAAAAAAAAAGGAAGGGGAAAAAAG GAAA A G GAACCGGGGCCGGGGCCAAAAGGGGCCAAGGCCAAGGGGA ACCAAGGAAAAGGAAGGAAGGGGAAGGTTCCAAGGAAAACCA A A A A A A A G G G G A A A A A A C CAA $A \operatorname{AGGGAAAAGGCCGGAGAGAAG}$ A G G G G GACCAACCGGGGGAAGGGGGGAGAAACCCCAAGAAAG GAAGGAAAGGGGGGGAAGGAAGGAAGGGGCCAAGGAAAGAGG G G GCCAAGGGGAAGGCCAAAACAAAAAAAGGGGCCAAGGGGG G G GCCGGAAAACCCCGGAACCAAGGGAAGGGCGAAAAAAGBA AAAGGGGGGCCGGAAAAGGAAGGAAAAAAGCAAGAGGAGAGA AGGAAAAAAGGGAAAGAGGGGAAAAGGAAAGAGGGAAAAGAA A GAGAGAGGAAAAAAAAGAAAGAAACAGAGGGGGGAAAAAGA G G GAAGGAAGGGGGGGGAAGGCCGGAAAAAAGGAAGGCCCCG GAAAAGGGGAACCGGAAAGCCAAGGAAACAAAGAAGGGAAAA A G GAGGGAGCAGAAGAAGACCAAGGGACCAGGAAGCCCCGGA A A A A A A A A A A A A A A A GGCCAAGGAAGGGGACAAAAAAGAAAG GCCAAGGGGGGAAAACAGGGGGGGGAAAAAAGGAAAAAAGAA A A A G GCAGGAAAAGGGAAGAGAAAAGGGGCCGGGGCAAAGGA ACACCCCATCCACACAAGAGAAAAACCAAGGAAGGGGCAAAG
 A G G A A A A G G G GCCAAAAAAAAAGGAAAAAAGGAAGATTAAAGG $G G G A A G A G A G G A G A A G G A A A A A G G A A A A A G G G G C C A A G A G G A$ $A C \subset A G G G A A A A G G G A A A G G G G A G G A G A A A A A A A A G A A A A G G A$ G G GACGGGGGGAAGGGGACAGGGAAAGAAGGAACCGACAAAG G G G G GCAAGGAAGGGAAGAGGAAAACCAAGGGGCCCAAGAAG G G G A G G G A A G G GCAGAAAGAGAGGACAGAAGAAAAGAGAACA A A A G GCCAGAGGGAGGGGGGGAGAGCAAGTTGGAAAAAGGAG A G GAA A A A GAGGAACGGGGGGAAAAAAGGGAGGCCAGAGGAA GAGCCAGAGGAAAAAAACAGGAGAAAAGGTAAAGAAGAAAAG ACAAAACGGAGGAGAGAAGGGAAAAGAAGGGGGAAAAAAAGA
 A G G G GCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAGAAGG A A GAGAGCGGGGGGGGGGGAGAGGGAAAAAAAAGGAACAGGG GAGAAGCAGAGAGGCGGAAAAAAAGAAGGAAAGAAAAGAAAA ATTAAAAACACAGAGGGAGGAAGACCCGAGACACCCAGGTTG G GAGAAAAGAAAAGGAGAGGAGGAACCGAAAAGAGAGAGAAA G G A G G A A C C G G G G G G G G A A A A A G G G C C G G A GA G A A G G G G A A G G G GCCAAAAAAGGGGAGGGAAGGGGGGAGGGGAGAGAAAAAG GAAAGGGAGAGGAGGGGGGGGAGAAGGAGATACAGGAAAGGA A G GAAGAGGCAAGAGAGGGAGAAAAAGAACCAACAAAAAAGG AGAAAAAGGCCCAGAGGAAACACAACCTTAAGACCGGGAAAG A GAAAAGGGAGGAAGAGAAAAAAGGGGGGGGACGAAAAAA GA AAAACAACAAGGGCAGAAAAAAAGGAAAAGAAAA GAGAGGAA AAAAACCGGCCAATTAAAAAAAAGCAAGGGGCCGGAAAGGGG GAACACCGAACGAAGCCGAAAAACCAAGGCACCAABAGGGGG GAACACAAAGGAACCGAAAAGGGGAGGAAGGCAAGGAAAGGA C GAGGGGCCAAGGGAAAGGGGGCAAAGGGAAAGGGGGAAAAA GCGCCGGAAAAGAGGGGGGGGAAGGGAGGGGCCCAAA
$G G A G A A A C A A A G G G A A G G A G C C A A G G A A G G A A A A C C G G G G G$ $G C A A A A G A G A A G A A G A G A A A A A G A C A G G G G A A A G G C C B A A A G$ AAGAGAAAAGGGGGGAAATACAAGGAAAGGATTAAAAGAAAC
$C C C G G A A G A A A G A G A A A A G A G C A G G G G A A G G A A A A A A A A A G G$ GACAAGGGGCCGAGGCAAAAAGGAGAAGGCCAGAAAGACGGG C G G GACAGGCAAAAAACCAGGAAAAGAAAGGGAACAAGAAGC CAACCACACGGCCGGACAAGGGGGGAGGAGAAACCAAAAGGG G G GCCAAGACAGGGGAAGGGGGGAACGGGATAGGGGGCAAAA G A A G G G G G G G GCC G G A A G G G G A A A A A A A A A A G G A A G G C C G G C C G G A A A A A A G G G G G G A A G G A A T T G G G A GA G G G A G G G G G G C C A G G G GAAGGCAAAGAGGGAGGGAGCCCCAAGGAAGGAAGGCCG GCCGGGGACGGAACAAGGAAAAAGGGAGAAAGAAAAAGAGGG GACAGAGAGAGAAGGGGAAAAGGGAAGGGGCGGAGCCAAGAA GCCGGAAAAGGAACAGGAAGAAAAGGCGGAGAGAAGAAGGGA GAGGAGGAGGGCCGGAAGGACACAGCCCCGGGGAGACGGGGA
 A A A A A C C G G G GCC G GAAGGAGGAGGACAGAGAAAACCAAGAC C C CAACAAAGGAAAAGGACAGGGGGGAGACCAGAAGGGAAAA AAACCGGAAGGAAAGGAAAAACCGGGGAAGGAAAAAAGAAAG

 GAAAAAGGGAGAGGGGGAGAGAGCCGAACGGGGGGGGGGGGA
 G G GAACCAAAAAAGGCCGGGGAAGGAAGGGGAAAAGGGGGGC CAAAAGGGGAAGGAAGGGGAAGGGGAAAAGGGGGGAAGAAAA A A A G G A A A A A A G GA A G GAAAACCGGCCAAAACCGGGAAAGAA A A A G G G G G G A A A A $\mathcal{A} G G G C C A A G G T T G A A G G G G G G A A A G G G G C$ C C C G G G G G G A A G G A G A G G G A A A G G G G G G G G G A G A G A G G G G G C AA $\operatorname{A} G A A C A A G G A A A A C G A G G A A C G G A C A A A A G G G G G G G A A A C$ C GAGGAAGGCCAGAAAAAGGAAAAGCAGGCACAAGAGAGAGA T G G G G G GAA A G A A A TAAC A A G G GAACC GAAAGGGAAGGA GAA GAAGGAGGGAAAGAGGAAGCCCCAGAGCAGACACAGAGAGAA GCCGGAAGACCCAGCAGAAAAGGAATTAAAGCCAAAGACAGA GAGAAAAGGAAGGGGAAGGGGCCGGAAGGGGAAAAGAGAAAG $G C C C A A G G A C C G G A A G G G A A G A G G G A G A A A A C C A G G G G A G G G$ GAGAAGGGGAGAAGGGAGAAAAAGAAACCAAAAGGGGAAGAA AAAGGAAGAGAGAAAGGGGAAAAAGAGGGGAAAGA GAAAAGG
 ACAGGAAAAGGCCAGAGCAAAGAAGCCCCGGAAGAAACAAAA GCAAAAAAAGAGGAAGGAAAAAAGAGGGGGGGGAAAAAAACA A G GAACCGAAGGGGGGGAAGGGGAAGAAGAACAGGAAAAAAA A A A T T A GAGCCACCAGGGGAAGGAGAAAGACGGAGAAACAAG
 GGGCAACGACCGAGGAAGGAAGGCCAAAAGGGGGGAATAAAG G G G A A G G G G A A G A A G G G G A A A C A G G G G C C G G G G A A A A A A G G A GAAGGAGAGCACAAAAGGGGGGGGGGAAGGGGGGAGACCCCA A G GAGCAGACCGGAAAAAGAAGAGGAAAAAAAACAAAAAGEG G G GAA A G G A G G C G A A G A C C G G A A G GA G GA G G A A G G A G A G G G A G G A C C G G A A G G G A G G A G G G G G G G G G A G A A G G C C G G G G G G G G G
 A G G G G A A G GACAAAAGACCGGCCAGAAGGGGACAAACAAAAA AAAGAGGAAGGGGAAAAGGGAGGAGAAAAATGGACCACAAAG GCCGAAAAAGGGGATGGCCAGGAAAAAAAAAGGAATTCCGGG A A A A G GAA A GAGGAGCCGAGGGCCCAACCGGGGAGAAGAGGG ACAAAGGAAGGAGGAAAAACCAGCCAGAAAAGGAAGGAAAAG
 GATGAAGAAGAGGACGGAGGGCGGGGAAGGGCCGGAAGGGGA AAAAAGGGGGAGAAAAAAAAAGGAAAAGGGGGGCCAAGAGAA A GACCAACCAAAGAGGGGGGGACAAGGTAAAGGCCAAGAAAA A A A G A A A CCGGAAAAAACAAGAGAGGGAGGGCGAAGGCCCAA A A GAAAGACCCAAGGGGAAAAAAAAAAGGAAAGAAAGAAAAB GAAAAGAGGGAAAAGGAGAAGATAGGGGAAAAGGGAAGGGGA

A A A A G A A G GAGACAGCCGGGGAAGGAAGGGAGAGAAAAGGGA A G G G A A A A C G GCCAAAAACCCCCCGGCCACGGCCGAGAAAGGG A GACCAGGAGGAAAAAGAGGGAAAGAGGGAAGGAGAACCGGG AA $\operatorname{Ag} \operatorname{GG} \mathrm{GA} A A A A C C A A A A A A G G A A A A G G A A G G G G G G G G A G A A G$ A G G G G A A GAGGGGGGCCAAGGAGAGGAGGGGAAAAGAAAAGA

 GAAGACCAAGGAAAAGGGGGGAAGGAAAAAGCAGGAGAACAG G G G G A A A A G A A A A G G G G T T G A G G A C G A A G C A A G A GA G G G C C G G GAAGGAAAGGGGGGGAAAGGAAGGAGGGAAAAAGAGGAGAG

 GAAGAAAGGCCAAAAGGGGAAAAAAGGGGAATTCAAAGGGGG
 A G GCCGAGGAAGAGAGAGAGGGGCCGGGAGAAGGACAGAAAA $C G G G G G G A A G G A G C A A A G G A A A G G G C A A A A A A A C A C C A A A G A$ $A G G A A G G G G A A G G G G G G C C G G A G A A G A G G A G G A A G A G A A G G G$ GAAGAGGGAAGGAAGCAAAGGAAAGTAAGCCGGCCAAGGGGG AAAGGAAAGGGAAGGAAGGGGACGGGGGCAGCAAGAGGAGAG A G G A A A A A A G G A CAAAAGGAAGGGAGAGGGAGACACCATAAG GAAAAAACCGGAAAGGAAAGGCCACAGGGGGCAAGAACAAAC CAAAAGGAAAAGGGGAAGGGGGAAGAGCAAGGAAAAAGGGAA A A A A G G A G A A A A G G A A GAGGGGGGAGGGAACGCCCACACAA G A ACGAGAGGAAAAAGAGCCGGAGACAAGGAAGGGGGGGGGGA A T T G G G G A A G G A A A G G G G G A G G G C C C C A G G A A G G A C C A G G G G ACCGGAGAAAGCCGAAGAACCGGGAGAAGAAACAAAAGAACAA GAGATAACCGAAAAGAAGGGAAGAGAAAAGGAAA GAAGGCGC CAAAAAATTAAGGAGGGGAAAAGAAAAAGGAAGGAGCGAGAG

 GAAAAGGCCAAAAAAGGAAGGAAGGGGGGAAGGGBAAGGGAA AAACCGGAAAAAAAAAAAAAAGGGGAAGGGGGGAAGGCCGGA A G G G G A A A A G G A A A G G A A A A C G G G G G G A A G G G GA G C C G G C C G G G G G G A A G A C A A A G G GAGGGGGACCGGAAGGAAGAGGAAAAA GAACCAGAGAGGAAAAGCCGGAAAAGGGGAAGGAGAAAAAAA A G G A A A A CAGAGGAACCAGGGCCGGGGGGCCAACGGAACGAA G G GAAGGAGAGAAAAGGAGGGGAAAACCCGGCAAAAAAGAAG GAGGGCAAAGGGGAAAGGGGAAAGGCCAGGAAAAGAGGAGAG G GAGGAGGGAGGGAAAAAAAAGGAAGGAAACGGAAAACAAAA AAAAGGAGGCAAGAAAAACAGCCAAAGGAAGCCCAACAAAAG AAAACGGCCACGGAAGAAGGGGGAAGAGGAAGGGAGGGAAAA A A GAAACCCGGGGGAAAAAAGAAGGGGAAGAGGCCAAAGGEG A G GAA $\operatorname{G}$ GAGGAAACCGGGGGAAAAAAAGGTTGGAAAGGAGAG GAGAGGGAGGGGAGGAAAGCAGGAGGGGGGGGGGGAAAAAAA A G G G G G G A A G G A A G GCCAACCGGCCGGAAAAGGAAGGCXCCA GCAGGGAGGGGGAAAAGAGAAAAAAGGCCAAGGAACACAAGA G G G A G A A G G G G GCGGGGCCGGCCAAGGAGAGAGAGAAAGAGA GCCGGAAGAACGGAGGGAAAAGGAACCAAAAAAGGGGAAGGG GAAAAAAAAAAGGAAGAAAATGGAAAAAGAAAA GAAAAAGGG GAAAAGAGGAGAGGAAAAGAAGGGAAAGGGGAGAGAGGAAGAG A A G GAGGAAAACAGGAAAAGGAAAAGAGGGGGAGGAAAAGAA A G GCC G A A A A G G G G A A GAGGGGGGGAAGGCAAACCAAAAAAC CA $\operatorname{G} A A \operatorname{A} G A A \operatorname{A} G G A A C A G G A G G A A A G G A G G A A A C A A A C C C G G G$ GAAAACCGGGGAAGGAAGGGGAAGGGGAGAAGAGAGGCAAGAC AAGGCAAAATTAAAACGGGCACCAAAAGGAGAAAGGGGACCG GAAAAGGACAAGGGGGGGGAGGGGGCCAAACACAGGG
A G G G G G A A A G C C A A $\mathcal{A} G G G G A G G G G G G A A G G A G A G A A G G G G G$ GAAGGGGAGAAACGAGAAGGAGGGGGGAGACAGAGCCGAABA AAAGGAAGGGGGGAAGAGGGGAGAACCGGGAGAGAAAGAAAG

A A A A A A GAGAAAAGGGGCCGGAGGAGAGGAGGAAGAGAGGGG G GAAAAAGAAAGAGGGAAGACCCAGAAGGGGGAAACCAGAAA A A GAGGGGGAAACGAACGGGGTAAGAGGGCCGAAAAACCCAG
 GAGAGGAGGAAGAGAAAAAGGGGAAAGGGGAGAGAAAAACCG G G A A A C C G G A G A A A G G A A A G G G G G G G G A G A A C A G GAA G G C A C C G GAGGAAGGGACAAAAGGCCAAACAAAAGAAGAAGGCAGAA GAGAGAGAAGGAGGGGGGAGGGAGGACGGAAGGAAGGCCGGA A G G A A A A G G A A GAAA $A \operatorname{A} G A A C C G G C C G G A A A A A A A A G G G G G A C$ $C G G A A A A A A T T G G A C G G A G A G G G G A A A G G A A A C C A G A A A A A A$ G G G G GAAAAGGAGGAGGCCGGAACCAGAACAGGGGAAAGCCA A GAGAAAAAGGAAGAAGAGAAAAGGGGAGAAGGCCAAGAGAA G GAGGGAAGGAGAGGGGGGAAGGGGCCAAAAAAAAAAGAAAA A GGCCAAAAGGAAGAAAGAAGGAGAAGGGCAAGAAGAAACAA AAGACGGGGGAAGACGGAGAAAAAAAAGGCCAAAGCAAAGAA AAACAGGGGGAAAAAAAAGAAGGTTAGAGCCACAGGGGAGAG ACAAAAAAGAGGAGGGGGGGGAAGAGAAAAAAGCCGAAAGAA GAAAGGACAAAAAGGAAAGACAAGGAGAGAGGAGGAAAAGAA ACCCCCCCCGGAACCAAAAGGAAAAAACCGGGGTTGGCAAAC C G G C C A A A A A A G G G G A A G G G G G G A A A A G G A A A A $G$ G G G G G G G A A G G G G G GAAAAAAAAGGGGGGAAAAGGAAGGGGAAGGGGTTA AAAGGAAAAGGCCAAGGAAGGGGAAAAGGGGGGAAGGCAAAG GCCAAAAGGGGGGGGGGAAAAAAGGAAAACCTTGGAAGGGGG G G G G G A A A A G G A A A C G G A A G GACGGAC GAAGAA GAA GA G GAC A A G A C A A G G G G A G A A A A A A A A G GCCGGGGGAAGAGGACAAGA AACAAGAACAGATAGAAAGGGAACCCCGGGGCCCCAACCGGG GAGCGAGAAGAAGAAAGGGAAGCAAGAAAGAATCCGGAAGAA A A A A A A A G G G G G G G GCAAAGAAGACAGGGAAAAAAG GAACAA $A C C A A A A G G C C A A G G G G A A A G C C A A A A G A A A A C G G A G G G G A A$ AAAGGGGGGGGGAGAGGGGAACCAAAAAAGGAGGGAGAAAAG A GAGAGAAGGAGAGGAGGAAAAAAGCAAAGACCAAGGGACAG GAGGAGAGGAAGGGGAAGAGGAGAAAGGGAGGGAGGAAAAAG A G GAA A A A GAACCAAAAGGTTGGAAAAGGAAAACCCCBAAAA A A G A C A A G A C A A A G GCCCCGGAGCACCAGCCAAAGAGAAGGG
 A G G G G C C A G A A A G G G A A G G G A A A G G G G G G G A G G G A G G G A G G C
 $A C C G G C C G G A A A A A A C C C C G G G G G G A A G C A A G G G G A A C A A G B$ G G GAAAGCGAGGAGAGACAAAAGAAGGAAAGGGGAAGAAGAA
 GAGAGCCCGGAAAATGAGGAAAGGAGGAGGGAAGGGAAAAGAG A A GA $\operatorname{A} A A A A A A A G G G G A A G G G G A A A G A A G A G G G G A A A A A A G B G$ G G GAAGGGGAAGGGGAAGGGAGGGCAAAGGGGGGGGGAACAG G G G A A A A A G G G GAGGACAACAAAAAAAGGAAAAGAACAAAAG GAAGGGAAAAAAAGGCCGGAAAGACAAGGAAAGGGACGGGGA A A A G A C A A A $\mathcal{A} G G G A G G G A G G G A A G G A G G G G G G G A B A A A G A G G$ G G G G G G G G A G A A CAA $A \operatorname{A} G A A G G A G A A A A G G A A G G B A C C G G G G G$ GAGAACCAAAAAGGGGCGGCACCAAGGGGCCGAGGAGAGGGA GAAAGGACCAGAACCAAAGTAAAAGACGGAGAAGGGAAGACA AAAGGCCGGGGAACCCAGAAGGAGAAGAAAGAAAAAGGAAGG A A A A A A A A A A A G G GAA $A \operatorname{GAAAGCACAGAAAAGCCAAAAAGGGG}$ GGGCCGACCAAGGGAAAAAAAAAGAAAAAAGGACCCGAGAGAA A G A G G A G G A A G A G C C A G G G A A G G G GAACCCAGGAAAC GAGA G GAATTGGCCGGGGGGGAAAAAAACCAGGGAAGGAACAAAAAA A G G G G A GAAAAAAAGAACCAGGGAAAAGGGAAGAAAAAAAAC C G G G G G G A G A G G A G G A A G G G G A A G G C C A A A G A G A A G G G G G A G A GACCGACCAAAAAAAAGGGACAAGGGGGGGAAGGAGGACCB A A A G G A G C C G G G G G A G G G A A C G G G GA GA G C C G A G A C C G G G G A G G G G GAAGACGGGGGAAAGGGAAGGCCAACCAAAGGGGAAAG

GAGACGAAAAAAAGGGAAAGGGAAGAGGGAATTAAAAAAGAA A G G G G A G G G A A A A A A G A G G A A G G G G G A C C G G A G G A G G G G A G G A G G G A A A C C A A G G G G G G A GAGGGAAAAAAAAAAAA A A A G GAA G G G G G GAAAAAAAACCAAGGAACCAAGGGGGGAA G GAAAAAGGC CAAGGGGCCGGGGAAGGGGGGAACCAACCGGAAAGCCGGGGG G A A A A A A A A A A A A A A C C C CAA G GAA $A \operatorname{AGGGAAAAAAGGGAAAG}$ GAAAAGGAAGGAACCGGGGGGCCAAGGGGAAGGGGAAGAAAA AGGGGAAGGAAGGGGAAAAAACCAAGGGGAAAAGGAAGGGGA A G G A A G G G G A A A A G G A A G G A A G G G G A A A A A A G G A A G G G G G G A AAAGGAAGGAACCGGAAGGGGGGGGAACCAAGGGGAAGGGGG GAACCAAAAGGGGGGGGAACCGGAAAAGGAAGGGGAAGAAAG G G G G G C C A A G G G G A A A A $\mathcal{A} G G G G G C C G G A A G G G G G G A A A A A A G$ G G G G G A A A A G G G G G G A A A A G G A A G G A A G G A A A A G G A A G G G G G G A A A A A A A A A A GGGGC CAAAAAAAGGGGGGGGGGAAAAGAAA G
 A A A A A G GAACCGGAAAAAAAAAAGGGGGGGGGGAAAAAAAAG
 $A C C A A A A G G A A A A G G G G A A C C G G G G C C G G A A G G A A G G A A G A A$ A G G G GAAAAGGAAAAAAGGAAGGGGAAGGAAAAGGAAGAAAG GAAAAGGAAGGGGGGGGAAAAGGAAGGGGGGAAAAAAGAAAA AAAGGAACCGGGGGGAAAAGGCCGGAAGGAAGGGGGGGAAAC C G G G G G GAAAAAAGGAAGGAAGGAAAAAAAAAAGGAAAAAAG G G G G G A A A A G G A A G GAAAAAA A G C C C CAAAAGGGGAAAACCG GAAGGGGCCAAAAGGAAAAGGGGGGCCGGGGAAGGAAGGGGC C G G G G A A A A C C A G A A C C G G G G A A G G C CAAA A A G G A A A G G G G G G GAGGAAAAAGAAGGCAAAGAAGCAAAGGGGAAAAAGAGAAG A G GAA A A GAGATTGAGGGAGGAAGAGGGGGAGAGAGACAAAA GACAAGGGAGGGACCGGGGCCGAGAAAGGAAGGGGAAGACAA A G G G G GAAGCCAACCAAGGACGGACAAGGCCGGAAAAAGAAG G G G G G G G A T G GAGCCAGGGGACCGACAACAGGAACAGGGGGA A G G G G A A A A G G A A G G A GAC GAGGAACC GAAGCAAGGAAAGGG GAAAGAACCAAGGGGGAAGGAACGAAACAACCAGAAGCAAAA
 GAAGGAGGGGGGAGGAAAAGGGGAGAAGGCCAGAAAAACGGA A A A A A A G G A G A A G A A G GA $\operatorname{A} A A A A A A A G A A A G G G G A G A G G A A G A$ A GAGGAAGGAAAAGGGAAAAAAAGGAGGGGGAAACAAGAGGA $C G A A G C C G G A G A A G G A C A A G G C C A C G G G G G G A G G G G G G G G G G$ A G G GACCGGACAAGGAGGGGAGGGGAAAAAAAACCACAAAAAA A G G A G A G A G G G G G A G G G A G G A A G G G G A C C C A A A A A C A G G A G A A AC G G A A A GAGAGGGCCGAAACAGAGGGGAAAAAAGGGGGGC CAAAAGGCCAAAAGGGGAAGGAAGGAAGGGGGGAAAAAAAAA A A A A A G G A A C C A A A A A A G G G G G G A A C C G G A A A A G GC CA A G G G GAAAAAAAACCAAGGAACCGGAAGGAACCGGAAAGGGGGGGC CAA A G G G A G G G A A A G G G A A G G G G A A G G G G G G A A A A G G G A G G A A C A A $\mathcal{A} G G G G G G G G G A G G G G G G A G G A A G G G A G G G G G C A A C G A G$
 GAAGAAGGGGGAAGGGGGGAAGGGGAAGAGGCACAGACAAAC $C \subset C A A A A G G A A A C G G A A A A A G C C G G G G A A A A G G A A G G A A A C A$ A A A A A A A GAAA A GCCGGGGAAGGGAAAGGAGGACCAAGAGAA
 C GAAAAAACAAGGAGAGAGGAGGAACCGGAGAGAACAAAGEG G G G G G A A G GAAAAAA A A A G G GA GA A A A A G GAGGC G G G G C C G G A A A G G G A G A GAA A GCCGGAGAAAAAGAAGAGAAAGAGGCAGAA AGGGGGAAACAAAAAAAACACGAAAAAGGGACAGGAAAGAAG $A \subset A A A G G A A G G G A A G A A C A G G G A G A A A A A A A G G A C A G A G G G T$ TGGCAAAGGGGAAAAAGAAGGGGGAGGGGGGAACAAG
CC G G G GAAGGAAAAAAGGGGGGAGAAAAAAGGGAACCAAAG GAACCCCAAGGCCCCGGGGCCAAGGGGAAAAAAGGGGGGGGG $G G G A A G G G G G G G G A A G G A A A A G G G G A A G G G G A A A A G G G A A A T$

TAAAAAAAAAAAAAACAAGGAAAAAAGGAAAAAAAAAAGGG G G G A A A A G G G G G G G G A A A A A A G G A A G G C C A A A A A C GAA GAC C AAAAAGGGAGGAGGGAAAAAAAAGGGGGGAACCAAAAGGCAA AAAAAGGAAAAGAGGGAGAGGGAAGAAAGAAGGGAGAAAAAG AATAGAAGGAAAAGGAAAAGGAAAAAAGGGGAACCAAAAAAC C G G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A G G A A G G G G G G G G G G G G G A A G A C G A G G G G G G A A A G A G G GCCGGGGAAAAAAA AAAGGGGGGAAAAAAGGCCGGAAGAAAGGCCGGGGAGAGGAG
 A G G G GCAAGGGGGGAAGGACCGAGAAGGGAGAGGAGGGAGAC CAAGGGAGGGAGAAGAAGAAGAAAAAAGGGAGAACCGAAAGAA A A A G G A C C C G G G G A A A G G G A CA $A G A A A G G A A G G G G G A A A A A A$ GACGGAACCGGGGGGAAAAAAAGGGAGAGGGACGGGGAGAAC C C C G G G G G G A A A A A A C C G G C C A A A A A A A A G G G G G A A A A A C C G $A C C G G A A G G G G G A A A G G A G G G G G A C A G A C G G G G G G A G G A A A A$ G G G G G GAGAGGGGGGAAGGCCGGCCAAAAAGCAGGGGCAACAC A G G A C G G G A G G G A A G G A A G G G G G G A C C A G A A C C A G G G A G G G C CAAAAAAAGCAACCAAAAAGGAAAAGGAGGGACGAGGGACCA GAACAGGCCGGCCACCCAGAAGGGGAAGAAAAAAACAGAAAA A G A A A C A G G G G C C A A G G C C A A G G A A A G G A A G G G G G A A G A G G G AACGAAAGGGGGGGGAAGGGAAGAAGGGGAAAAGAGAGAGAG AAGCAGGGAGAAGAGAAAAAGCAGAAGAAAAAGAGGGGAAAG GCAATAGGGGGAGCGAAAGAGGGACAAGAGGGGCCCCAGAGB A A A A A A A A A A C A A $\mathcal{A} G G G A G A A G A G G A G G G G A G G G G A A A G G G G$ G G GACCCAAGAGGGGGGCAGAAACCGGAACCAAGGAAAGABA A A G G A G G G G G G G G G G G G G G A A A A A A CAAGAGCAAAAAAAAAA AACGAGGAACCAGAGAACCGGAAAGCCGGAGAGGGAGAACAA A A A A A A A G G A A G G G G G G G G G G A A C C G G G A C C A A G G A A G A G A G G G G G G A A A G A A T T G G A G G G A A G G A A A G A A G G C C G G G G G G G G A GAAGGGAAGACAGGGACCAGGTTGGAAGGAGGAGACCAAAAG G G G A A C A A G G GACAAAACCAGAGCCAAAAACCCGGGAGGGGA A GAGGAAAAGGAGGGGAGACAAAGGGGGGGGGGGGGAAGAGA

 A G G A A A A A $\mathcal{A} G G G A A A G G G G G A C C G G G A A A A G G A G G G G G G G G G$ GAAGGGGAAGGCCAAAAGGAAAAGGAAAAGGAAGGGAGAAGG A GACAAGGAGGAGAATACCAGATAGACCAGGGGAAGGGAAAA $A C C G A A A A A A A A A A A A G G C G A A A A G A A G G G G G G G A A A C A A G A$
 GAAGACCGGAGAAGAAGAGCAGAAAGAGAGGAACCAAACAAC C G G G G G GAA A GAAAAC CAA $A \operatorname{A} A G G A A G G A A A A G G A A A A G G G G T$ TAAAAAAAAAAAAACCGGAGAAAACAGGATAAAACACCGGA AAAAAAAGGCCGGAAAACCAACCGAACAGGGGGAAGAGGGGA
 GCCGGAAGGAAGGAAAAGGAGCAAAGGCAGGGAACAAAAAGG GCCGGAGCCGAAACCAACCGGGGAAGGAAAACCGAAGAGABC C G G G G A A G G G G G G C A A G A G G G G A GAGGAAGAAGAAA A A GA G G GCCAAGCAGAGAGCCTTGGAGAACACGCCAAAAGGGAGAAAA GAAAAAAAAAAAAGGAAGGAAACGGGAGGGGAAAGAAAGGGG G G G G A A A G GAAAAGGAGGGACCCAAGGAAAAGGAGCAAAA GA G G G A A GACCGAGGCAAGAGGGTACAAAGAGACCCCGAACAAA AAACCAAGGAAAGGACCAAAGGGAAGGACGGCCCAAAGACAC C GACACCGAAGGCGACCAAGGAAAAGGAAGGAAAA GGGGGGG G GAAAGGAGGACAGGCCGGAAGGACGCCAGGAAAAGGAAGAA ACCAAAAAAAAAACCCCGGAAGGCCGGCCCCGGAAGGAAAAA A A A G G G G G G A A A A A A G G A A G G G G A A A A A A A A A A G GAAAAAAA A A A G G A A A A G G A A $\mathcal{A} G G G A A A G A G G G G G A G G A A G C A A A A A G A A$ G G G A G G G G A G A A A A G G A G G GAAA A G A A A A G G G G G G G G A A A G G GACGACAGGCAAAAGGAGAAAAGGGGGAAGGAAGAAAAGGAA

A G G G G A A G G G G G G G G A G A G A G A A G G A A G G T T G G A G C C G G A G G $A G G G G G G G G G A G G A T A A A G A A G G A A A G G G G G C C A A G G G A G A A$ AAAGGGAGAAAAAAAAAAAAGAAAGAGAGGAGGAAAAA GGGA A GAAAGGAGACAAGGCCAAAAAGGGGAAAAGAGCCGGGGGGA ACAGGGAGGCAAGAAAGCAAAAAGAGAAAAAACAAAGAAGGG G G G A A A G A A G G G G A A A A C C G GCCGGAGAAAGGGAAAAGAG GA GACCGAGCAGAGGGAGAGAACAGGGAAGGAGCCGGCCAAAAA AAACCGGAACCAAGGAAAACCCCCCGGAAAAGGAAGGCCCCC C G G A A A A A A A A A A G GAA $A \operatorname{GAAAGGAACCAAGGGGAAGGCCGGG}$ GAAGGAAGGGGGGGGAAGGGGGGGGGGAAGGGGAAAAGAAAA A G GAA $A \operatorname{GA} A A A A A G G G G G G A A A A G G A A G G A A A A G G G A A A A A G$ GAACCAAGGAAGGAAAAAAGGAAGGAAGGGGGGGGAAAAAAG GAAAAGGAAAACCAAAAGGAAAAGGAAAAGGGGAAGBAACCG G G G G G G GAAAAGGAAAAAAGGAAAAGGGGAAAAAA GAAACAC $C G G G G G G G G G G G G C C G G A A G G G G G G A A A A C C C C G G A A C C G G G$ GCCGGCCAAAAAAAACCGGGGGGAAAAGGCCGGAAAAGGGGA A A A A A A A C C G G G G G GCCGGCCAAGGGGCCAAAAAAGAAAAAA
 GAAAAGGGGCCAAAAAAGGGGGGGGGAAACCAAGGGGGGGGA A G G G G A A G G G G A G A C G G A G G A G G G G A G A G A G A G C C A G G G G G A AGGAACAGAAAAAGGGGAAAGGGAAGGGGCCGGGGAAGGGGC CAGACGGGGGGGGCCGGGAAAAGGGAGGGAAAGGAGGGGGGA G G G G G A G G A G A C A A G A C G A G G G G G G G G C C A A A A G G T T A A G G G $G G G A A A A G G G G A G A G A G G A A G G A G G A G A A A A G G G A A A A A G G G$ $G G A A G A A A G A A A G A G G A G G A A G G G A A G G G A G G G G A A C A G A A A$ G G G GAACGGAAGGCCCAGAAGGGACGGCCGGGGAGAAAAAGA CAGGAAAGGAACCAGGGGGAGCCGGAAAACAAGAAAAGAAAC A GAGAAGGAGAAGAGAAAACCGAAAGGAGAAAAAAGACAAAA A GAGAGGGGGGGGGAAAGGAAAAAGGGAGGAAAGAAACAAGB $G G A A A A C A G A G G G C C A A G G A A T T C C A A A A A G G G A A G G C A A G A C$ C A G A A G G G G G A G A G G A A A A G G T T G G A A G G A A A A A G G G A G G A A AAAAGGGGAGAAGAGAGAAGGGGGACAACGAAGAGGAAGAGA GAGGGAGAAGAGGGAAAACACGGGAGGGGAAAGGGGGAACAA A A GAGGGAAGGACCCGGGAAAAAAAGAGAAGGAGGCCAAAGC C C C C A A CAA A GCA G GAAGGCCCCAAAAAAGAGAAAG GAGCAG
 G GAGGGAAAGGGAATGGCCGGAAAGCAAGAAAAAAGGAGCCG GAAGGAAAAGGAGAAGGCCCCGAACAAGAGGAGAGGAAACCC CA G T T T T G G A A GAG GAGGAGGGCAAGAGGGGCAAAACGAAAA ACCGGAAGGACAAGGAGAAGGAAAAAACCGGAACCAAAAAAC AAAGGGGAAAGAGAGAAAGAGGGCCAAAAGGAACCGGGAGAG A G G A G C A A A G G A A A A GA A GAGAAGGAGGGAGAAAAGAAAAAA A A A A GAAAACCAAGGGGCCCAAAGAAGAGGACAAAAGAGAAA G G G G G A A A A A G T A G G G G G G A G A A G A G A G G A A G G G A A G G G G G A $A G G G G G G G G G G A G A A A G G G G A A A A G A G A A A A A A A A A C A G G G G$ A G G G A A G A A C C C C G G G A A G A A A A G G G G G G A G G G G G G A A A G G G $G G A A A G A G G A G A A C C G G A G G G C A A A A A A A G G A A A G A A C A A A G$ G G G G G G G G G G G A G A A GAGGGGAAAAGAGAAGGAGGCGGAAAA GAACCAACCAAAAGAAGAGGGAGAGAGAAGAAGCCGGGAAAA G G G G G G G G G G G G A A A A A $\mathcal{A} G G G G G A G G G A A A A A A A A A A A A A A G$ G G GCCAGAAGGAGAGGAAAATAAGCGGGGACAAGGCCGGGGA A GAAAAAAAAAGAGGAGAGAAGAAAGGGGGGAAAACCAAGAAA A G G A A A A A A GAGGAAGAAAAGGGGCAAGAAGAAAGAAGAAAA G G GAAAGGGAGACAAGGGAAGAACAGGGGGGGAGGAAGGAAG G G G G G G G G GAACCAAGGAAAAAAGGGGAGGAGGAAAACACCA A GACCGGAAGGCCACGGAAAAAACCAAGGGGGGGGAG
G G G G A C A A GAAAGGAGGAGGCCAAAACCGGCCAGCACAAGC C G G G G G A C A A A C C G G G G A A G G A C A A A A G G G G C A A G A A G A A G A $C \subset A G G A G G G G G A A G G G G G G A G C A G G A A G G G A G G G G G G G A G G A$

AAAAGGGGAGGAAAAGGATAAAAAAAGCCGGGGGGAAAAGGG AAAAAGGGGGAAACCGAGGAGGGAAGACAGGGGAACAGAATA G G G GAGGAGACAGAAAAAAAGCCGGCCCCCCGAGAGGGAAAG G G G G G G GCAAAAAAAGGGGAAGAGAGGGAGGAGACAGAAAAA G GAA A G G G A A A GAGGGGAAGGAAGGAGGGGGAGAA GAAGCCC A G GAA A A A A G G G GAAAAGGAAGGAACAGGGGAACAAAAAGAA GAGAAAAGGAAGGAGGGGGGGAGAAAAAAGGCAACAAGAAGA AAAAACCGGAAGGGGAAAAGGAAGGGGCCAAGGAGAGAGGAA A G A A A A G A A A A G G A A A A A A G GCC G G GAGGAAAAA GC GAAAA G G G GAAAGGGGGGAGGAAAACCGAAGGAAGACAACCAGACGGG G G A A A G G G A C C G G A A G G G G A G T T A A C CAAGGCAAAAACAAA G GAGAGAGAAGAAGAGAAAAAAAGGAAGGAAGGAAAAAACAAA $A G G A A G G A A A A G G A G G G C A G G G A G G G A C A G G C C G G C C G G G G G$ GCCCCAGGGGGGGCCGGGGGAGGAAAAAGGAGGGACCGGCCG GAAAGAACCAGGGAGCCAAGGGGCAGAAAAAGGAGAGAATTA A A A GAGGCCGAGGGGCCGGGGGGCCGGCAAGGAGAGAAACAG GAAAAAAGGAGAAAAGGGGAAAAGAGCAGGAAAAGGGAAGAG A G GAGGAAAAAAAGGAACCGAGGAAAAAAGGGGGGAAAAAAG GAGGGGAAGGGCCGGGAATAAGAAAAAGAAGAACCGGCCGGG ACAAAAAAGAGGGCCGAGGGGAAAGCCAAAGGAAAGAACGCA GAAAACCAGAGCCCAAAAGAAGCCCAAAACCGGACACGGGGA GAGAAGGACAAAGAAGAGGCCAAGGAAGGGGAGAAGAAAAGC CAAA A G GACAAGGCCGGGAAAGGGGGGGGCCGGGGAGACAAG GCCGGGAAAGGGGAAGAGGCCGGGAGACCAAAGGGAGAGGGA $A C C A A G G G G C C C C A A C C G G A A A A G A A G G G G G G A G G G G A A A B G$ G G GAACAGAGGGGAGAAAGCCGAAAAACGGGAAAAGGGAAAG GAAAAAGGAGAAAACAAAAGGGGGGGAAAGAAGGGGAGAAGA $C G G G G G G C C G G A G G G G A G G G G A A A T A G G G G G G G G G A G A A C C C$ GAGGAAGGAGGAGGACCGGGGGGAGAGAAAACCAAGGAAAAA

 AA $A G G G A G G A A A G A A G G A A G G G A A A A G A A G G A A G G G A G A A A A$ AAACCCCGAAGAGGGAAAACCCCAAGGCCGAGGTTGAAAGAG A GAACAGAAGGAACCAACAAGAACAAGGAGGGGAAGGGAAAG G G GACGGGGAACAGAAAAAAGGGAGCCGGGAGGAAAGAAAAG $G G G A G G G G G A G C A G C G A A A A A A A C A G G G G A A G A C A A G A G A G A$ A G GAA A GAGAGAGGAAAAGCAGGAAGGAACACCGGACAAAGA A GAGAGAGAAA $A \operatorname{A} A G G C C G G C C A A A A G G A A A A G G G G G G G G G G A$ CAGCAAAACAGAGAGAAGAGGGGCCGGGGGAAGGGAAGAAGB G G G A G A C G G G G A G A A A G G G G G A A G G G G A A A A A A G G A A G G G G A AAGGGAGAACCAAAAAAAAAAAGAGGGCCAACGGGGGGAAAAA GAGGGGGAAAAAAAGGAGGCCAAGGAAGGAAGGAAGGCAAAA AGGGGAAGGCCCCAAAAAAGGGGAACCGAACGGAGGAGAGAG AAAGGGAGGGAAAAAGAACGAACGGGAAAAGGGGGGGAGAGA A GAGGGAAAAGAAAGGGGGGGAGAGAAAGAATTGAAAAAACAA G G GAGAAAGAAGAGGAAACAAAAAAGAAGAGGGAGAGCCGGC CAAAACCAAAAGGGGGGGAAAGGGGGGAAGGGACAAGGAAAA G G GCCAAGGGGAGAAAGGGGAGGAGACAGGGCCGAGAAAGAA A G G G GAAACAAGGAAGACAGGGGGGAAGAAAGG
 AAAGGAAGCCCCCAAGGAGAGAAGGAAGGGAAGCCAAAAGAA $A C C G A G A A G G G G A G A G G A A C C A G A G G A G G C C A G G G C C G G G G A$ A A GCCAAGGAAAGAGAAAAGGAGAGAGACGGGGAAA GAAGGA AAAAAGAAAGGAAAGCCGGGGCCGGAGGAGAAAAAGAAAAAA $A C C A A A C G G A C A A A G G A G A A G G G G A A A A G A G A G A A G G C A G G A$
 AAGAAAAGGAACCAGAAAAGAAGAACCGGAGGGCAGGCAAGG A A A G A G A A A A G G G G A G G A G GA G GAA A GAA G G C CA G A G G G A G A $G C A G A G G A A C C A A A A G A G G A A A G A A G G G G C C A A C C A G G A A A G$

GAAGGGAACGGCAACCCAGGGAAGGGGTAGGAAGAAGTXAAG GAAGGGGAAGGAACCAAGGAAAAAACATTCCAGGGCCAGGBA AAAGGAAGGGAGGAAGAAAAAAAGAAAAGAGAAGAACGAAAA AAGAAAGAAGGAAAAGGCCAAGGGGCCGGAAGGAAAACCGGA AAAAACCAACCGGCCGGCCGGAAAAAAGGAAAAAAGGGGGGG G G GAAAAGGAAAACCAAAAGGGGGGGGCCGGGAGGAAAAAAG G G G G G G GCCAAAAGGGGAAAAGGCCCAAGCAGAGGAAAAAAA AGAAGGGGGAACCGCGGAGGGAGAGAAGGAGGGCAGAAAAAA A A A G A G A C A G G A A G G G GCCAAGGGAAGGGCCGGTTGGGAAAA G G GAAAAACAAAAAAAAGAGGAGGAAATAAGCCAAAAGAAGG G GCGAAAGGGAAACCCCGAGGAAAGGACCAGAGAAGGAGCCA GACAAGGCCGGAACAAAGGAAAAGGAAACGGGGAAAAAAAAA A G G A A A G A A A A G G G G C G A A A A G G G GAA A G A A GAG GA GAAAA A C GAGGAAAAGGGGGGCCAAGAGGCACCAAAAAACCAGGACGG $A C C G A G A A A G G G G A A A G A G A G A A A G G G A A G G A A G G A A A A G A A$ C GAGGAAAGATAAGAAGGGGGAAAACCGAGACAAAACAAGAG GAAGGGAAGGAAACCGGAAAAGGGGCCGGAAAACCAAGAAAA G GAAAGGGGAACCGAGAAAAACCGGACAGAGGAGGAAGGGGA AGGGGAGAGAAGGGGAACCGGAACCCAAGAGAAAAGAAAAGC A A ACCGCCAAAAAAAAGGAGGGGAGGACCAAGAAAAGAGGGG GCAAAAAGGAAAACCGAGGGGGGGGGAAAGGAAAGGGAGGGA AA $A \operatorname{GGGAAAAAACCAAAAAAGGAAAGGGGGGAAAGGCAAAGGG}$ GAAGAAACAGAAAGGGGAAAACCGGGGGGCCAAAGAAAAGAA A G G G A A A A G A G T A A $\mathcal{A} G G A A G G G G G G C A A T G G C A A A A G B A G A C$
 AAA A A G GAGAAAAAAGGGGAAGGGACCAGGGAAAAACAGGGG GAAGGAGCCAGCCGAGGGGCCAGGGAAGGAAGGACAGCAAAA A A A A CACAGCAAAAAGGGGGAGGAAAAGGAAAGAGGGAACAA GAGAGGGTTAAGGGGGGAAAAGGAAGGGAGAAGAAAACAAAG GAATAGAGGGAAGGGGGGGAAGGAAGGAACAGGAGAAGGGGG G G G G G A G A A G G A A G A A A G G A A A A A A A G GACCGGCCAGGAGGA G G G G A G G G G A G G G G G G A C C G G G G G G A A G G A A A A A A G G G G C C C
 A A GACAAAGAAGGAACCCAGGAGAGAGCCAAGGGGAGABAAA A GACCAGGGAGAAGAAAAGAAGACCAAGGGGCCCCAAAAAAG GAAGAAGATAAGGAAGGCCGGGGAACCAAAAGAGGCCAAAAA A G G G G G G G G G G A G G A GAGGAA TAAAAACGGGGAAAAAACAAG G GAGGGGGGGGGGGAAAGGGAAAAGAGGACGACCGACCCACAAA A A A G A A A A A A G G CAAAAAAAAAAGGGGGACAAAACAAAAA GA
 A G G GAGAAGAACCAGGAAGAACCGGAGAGAAAAACGGGGGGA $G G G C A A G C C A A A G G A G A G G G G A A A A G A A A A A G G G G G A A A G G A$ A G G G G A A A A C A A A A C G GCC G G G G G GCCAAAA A A A GCAAA G G G GAAGGAAAAAACCAGCCGGGGGACCAAAAGAGGAACCAAAAA GAAGGAAGGAAAAGGGAGACCAAAGAGAAGGGAGAGAAAACB
 GAAGAAAAAAAAAGGCCGGGGCCGGAAGGAAAAAAAGGAAGG GAAAAAACCAACCACGGAAAGGGAAAAGGAAGGAAAAGEGAA ACGGGGAAAAAAGAAGGAAGAGCAGCAAGGGAAGAGGCCGGG GAACCAAGGAAAACAGAAGGGGGAAGGGGAGGGACGGGAACA G GAGGAAAGGGCAAAAGGAAGGGACGAGGGAAAAACCCAA GA GACGAGGAGGGAAGAAAAAACAGAGGAACAGGGAGGGGGGGG GAAAAGAGGGAGGAAGGCCATAGTTAAAGGAAAGAAAAACCG G G GAGAGGAGAAGCAGAAAGGGGGGAACCGAAGGACAGAAAA G GAAGCAAGGAGGGAGGAGACCCGGAGAGAGCCGGAGAGCAA GAAAAAGGATTAAAAGGAAAAGGGGGGGGGGAAAGAGGAAAA G G A A A A A G GACAAACAAAAAAAAGGGGCCGGGGAAAAGAAAC A G G A A A A A A A G A A G A A GACAGCAAAGAGGGAGAGGAAGACAA $A G G A A A A G G G G G G A A G G A A A G G G G A A G A A C C G A G G G A A A A A A$
$A C \subset A A A A G G A A A G A G C A A A A A A C A A G A A A A G G A G G C C A G G G A$ A A G G G A A A A GA GAAAAAAACAAACCAAGAGGGGGGGAGAA GA A G G A A G G G A A A A A A A G GAA A A A C G GAGCAAGGAGGCCCCGGG G G GAA A G G G GAAAGGAAGGTAGAGGCCGAGAAAAAAGAAAAA GAACAAGGAGGAAAGAGGGCCGGGGAGAAAGCCAACAAAGGG G G G T T G G G G A A G G G G C C A A A A $\mathcal{A} A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A G G G G G G G G G G$ G G G A A A A G G G G A G G A A GAA $A \operatorname{AGAAGGCAGAAAAAAGAAAGGGT}$ $T G G G G G G G G G A G G G A A A A A G G G G A A G A G A C C G G G G G A G A A A A$ A G G G G G G A A G G G G C C G G G G A A G G A A A A G G A A C C A A C C A A G G G G G GAA A G G G G G A A A A A A G GAGAAGGGGGGGGAAAAAAAGGGC CAGAGCCGGAGGGAAAAGGAGAAGGGAAGAAAAAGAAGGAGA GAGGGAGCGAACAAAAACCAACCAGAGAAAAAAAGGGAGACA A GAAAAAGGGGAAAAAGAAGAAGAAAAGAGGAAGGGAGAGAA A A A A G G G A G G A A G G G G A G G A A A A A A A G A A G GA G A G A G G A G G A A G GAGAAAAAAAAGGGACCCAGGGAGGAAGAGGGGAAAGGGA TAAAGCCGGGGTTGAGGACCGTAGAGGAAGGAAGAAAAGAGA G G G G A G G G G G G A G A A G G A A G G A A A A A A A A G G G G G G G G A A A A $G$ GAA A G A A A A G G G G A A T T G G A A A G C C G G G G A A G G G G G G G G C A G A G G G GAGAAGAAAGGAAACGGGAGAAGGAGAGAGGGAAAAAA CAACCAGGGGAGAAGGAAAGGAAAGAAGACCAGATGGGGGGA AAAAAAAGAGGAAGGAAGAGGGGGAGAGGAAGGCCAAGAGAC CAACCGGCCAAGGGAGGGACAAAAAGGAAGGACGGCCAAAAG GAAGGGGAAAAGGAAAGTTCCAAGGTAAAAACAGGGAAAAGA
 A A A A C G G G G G G G G G GAGGGGGCACAGGAGGGAGAGCCAAA GA A G G G G A A A A A A G G C A A GACAAGGAAAAGGGGGGAAAAAAGGC $C \subset A A C A A G G A G G G A C C C G G A G G A C A C A C A G A A G A G G A G A A G G$ A GAACCAAGAGAGGAGGATACGGGGAGAAACCCAACCAGACG GAAGGACCCAACCGGAAAAAAAAGGAACCCCAGGAAGAGCBA AAAAAAGAAAGGACCGGAAGGAAGGGAGAAAAAGGGGGAAAA A G G A A G G G G A A A A A A G A A GAACCGGAAGGGGGGGAGAAAAAC $C G G C C A A G G C A A G G G A G A G A C A G G G T T G G G G G G C A A G G A G A G$ G G GAAGGAAAAAAGAGAAGGGGAAGGGAGAAAGACAACAAAG A A C A A A A G GA G G GACA G G G G G A A C CAGAAA A A G G GAGGGGGA AA $A$ A $\operatorname{G} G A G G A C A G A A A A G G A A G G A A A C A G A C A A A A A G A A A A C$ C G G T T A G C A A G G G G A G A A G G G A A A C G G CAAAC A A G A G A A A G A G GAACGAAAGAAGGGGAGGAGAGGAGGCCAAAAAAGGACGAG GAAGGGGGGGGAAGAGGAAAGACAGCCGGACAGGGAAGGGGA A A A G G GAGGAGCCGGACAGCCGAGAGAAACCGAAAAAAGGAC CACGGAAGGCAGGAAGGGGAAAAAGGGAGCAACGGGGGAAGA GAAAAAAAGAGAGGGAACCAGGGAAAAAGAAAAGAGGGAAAAG A A A A A G G A A G G A A A A G G G G G G A GACATAGAGGAAA GAAAGGA G GACCAAGAAGAACAGAAGAGCACACCCCCCGAAAGAACGGG GAAACAAGGGGAAAAAAGGGGGGGGGGGGCCAGGGGGGAAAA CACAGAAAAAACCAAAAAGAAAAAAAAGGAAAAAAAAGAGGGG A TAGAGGAAGAGGAGGAAGAGGGGGGGAACCGGCAACAAGGG GAAGGGGGGAAAGAAGGAGAACCGGGGAAGGAAAAGGCCGGG
 GAGCCCAGAAAGAGAAAAAGGAAAAGGGGAAACACGG
A A A A A A G G GAGAGGGAGAAACAAAAAAAGGCGGAGGAAAAG GACAAGGGAGGCCGGGGAGAAAGGGGGAAGGAAAAACCAAGA AA $A \subset C G G G G A G G G G A G G A A A G G G A C A A A A G G A G A G A A A A G G G$ GAGGGAAGAGGCCGGAAAAAAAAGGCCAAAAGGCAAAACGGG G G G G G G G A G G G A G G G A A G G G G A A G G A A G G A A A A G G G G G G C C A AA $A$ A $\operatorname{Ag} \operatorname{G}$ GAAAAAGCAGAAAAGGAGGGGAAAAGACAGGACAAA $G C C A G A A G G G G G G G G G G G G A A A A A A A G A G A G C C A G G G G A A G A$ GCGCC GAGGGGGACCATCAGAAAGGAAATAAAAGGAAAACCG GAAGGGGGGAAGGAGAAGGAGAAGGGACAAGAA GGCCGAAGBG $G G A G A G G G G A G G G G C C C A G G G A G G A A A G G A A G G A G G A A C A A A$
$A C \subset A G G G A A A A G G G G G A A G C C G G A G A A G G G G A A A A G G C C A A A$ A A A A A A A A A G G A A A G G GAAAA $A \operatorname{A} G C A G A A A G G G G G G G A A G C C A$ GAGCCAAAGGGGGGAAAAAGGAGGGAAAAAAGGGGGGGGGGA A A A A A G G G G G GAAGGCCAACCAGAGACAGAGCCGGGAAAGAA
 A A A A G ACTTACCCGAGAAGGAAGGGGACCAAAAGGTTAAGGG G GAA A G G A A G A A A G G G G G A GAAGGAGGCCGAGGAGAACAA GA A A A A A A A G GAAAGAAGGAGCCGGGACCGGGGGAAAAAGAACB $A G G C C C C A A G A A A G A C A G A A G G G A A G G G G A G G G G G G G G A A A A$ AGGGGGGAGGGACGGGGGGGGAAAACCACGGAAAAAAGAAAA AAAGGAAAAGAGGAGCCAAAAGGAAAAAGGAAAAGGGGAGGG GAAGGAAGGAAGAAAGAAGCGCCAAAGGAAAAGGAAAAAGEG GAAAGGGGGGAAAAAAAAAGGGGAAGGAAAAAGGGBAAACCG
 G G G G GAAAGGGCCAACCGAAGGAACCACAGGAACCCCGACCA
 G GAA $A \operatorname{G} G C C G G A G G G G G G G A G A G A G G G G G G A A G C C A G G G G G A$ A G G GAA A G GAAAAAAATAGAACCGGAAAGAAGGAGGGAAAAC $C \subset A A A C C A A A A G G G A C A A A A C A A G G G A G G G G G G A A G G G G G G G$ GACAAGGAAGGAAGAGGGAAGGGAAAAAAAGAAAGGAGGGGA AAGAAGGCCAAGGCCCCGGGGAAGGAAAAGGAAAAGAGAAAC CAAAAAAAAAACCGGAAGGGGGGAAGGAAGGGGAAAAAAGGC C C C G G G G A A A A G G G GAA $A \operatorname{GGGGAA} G G G G C X A A A A G A G A A G A G G$ GAAGGGGAACCTTGGCCCCGGAACCAAAAAAAAGGGGBATAA G G A A G G A G A A G A G G A A A A A G G G G G G G A A A G G G G C C G G G G A G G GAAAACCGGGGAGGGGGGAAGGAAGAGACAGAAAAGACAGGA G G GCGGGGGAGGGAGAGTTAAAAAAAGAGGAAGGAGAACAAA A A A A A G G A A G G A A A A A A GAAGAACCCCGGAAGGAACAAGGAA ACAGGGGAAATAGGGGACCGGAAAGCCCCAAGAAGAAAAAAA AAGAAAACACAAGGGGACAGGGAGGGAAAAAAAAAAAAAGGG A A C G G G G C C G A C C G A A A A G A C A A G G A G A C G G G G A G A A A A A G C $C G A G G G G G G A A G G A C G G A A G A G G A G C A C C C C A G C C C C C C G G A$ A A A G A C A A A G G T T A A G G G G C C G G A A GAG GAAAA A A A A G G G G G ACAGAAAAAGGAAAGAGATAGGAGAGGCXAAAGAGAAGAGGG A G G G G A A A G G A A A A A G GAAAAAAGAGCCGGGGAAAAAAA GA GA A A A G G A A G A A G A G A G G A GACCACAGCAGGGGAAGAAAAAGGG GAAGGAAAAGAAACAAGAAAAAAGAAGAAAAAAAAAAGAAAA
 GCCAAAAGGGAACCCGGAGAAAGGAAACAAAGGAGCCBAGAA G G G G G T T G G C C G G A G G A A G A A A G A A A A A A C G G G A A A A G A G A A AAAGGCCCCGGAAGGGGCCGGGAAGCCGGGAAAGGGGAAAAA GAAGGACAAGGAAAAGGAAAAAAGGAAAAAAGGCAGGGAAAA G GACCGGGGGGAGACAAGGAGGGAAAGACGAGGACGAAAAAA A G G A A C C A A G G G GC C G G G G G G A G G A G G G G A G G A A G A A G A A G G GACGGGAAGGGGGAAAAGGAAGGAAAAAAAGAGAAGAAAA GA GAAAA A A $A \operatorname{A} G A G G A A G G G G G A G G A C A G A A G G A A G A A G G A A G A G$ G G G G G G G G GAA A GAAGGCCAGGGCAGGGGGAAAGGGGCAAAC A A GACAGAAGGAAAAGGAAAAAGGGTTAAGGACGAGAGAAAA A A GACAAGGGAACAAAGAAAAGGGGGGCCGAGGCCTTACAGG GAGGGAACAGACGACGGGGAAAAGGGAAGAAAAA GAAGGGGA $A G G G G A A G G G G A A G G A A C C A G A A A A C C G A A A G G G A G G A A A G G$ $G G G C C A A A G G A G G G A A C G G A G A A G G G G G G C A G A A G A A G A G A C$ A G A A GCGGGGGAAAAAAGAAGGGCAACGAAGAAGGGGAAAAA $A C C A C G A G G G G G G A G G G A G C A G G G G G G A A A G A A A G G G G G G G A$ A GACCAAAAACGACCGGAAGGAAAAAGGAGACCGBAAAAGEC ACAGGAAGGAGCCGGGGAAGGAGTAAGAAAAGGAACCAAGGA AAACGAGTAGGAGGAAGGAAGAGAAAGCCAAAGAGAAAAAAA CAGAGGAAAGACACATACCGGGGAAGGTTAAACACAAAGGAC CAAAAGGGGGGGGAAAAAGTACAGAAGAAAGGGAGGACAAGA

AGGAAGAGACCAGCCCAGGGAAAAAAGAAGGAGAGAAAGGGA
 GAAAAGGGGAGGGAGAAAGAAGGGGAGAGAAGGGAAAGAAGA A A A A A C A A A A G G G G G G G G G G G A A A A A A A G GAA A A G G G G G A G T TGGGAATGGGGGGAAGGCAGAAAGAAAGGACAATAGGAGCCA A A A A ACCACAGAAAAAAGGAAGAATTAACAAAAAAGGAGAAG GAAAAGAGGGGAACCGGTACCAGAGACGGAACCGGGACAGBA
 GAGAACCAGAAAACAGGGGAAAAAAAAAAGGGGGGGBAACAG G G G G G G GAAAAGGAACCAAGGGGGGGGGGAAAAGGGGAAAAG GAAAAGGGGGAAGAAAGAAGGAACCGAAGAGCCAAGGTXACA $A C C G G C C A A A A A G G A A A A G G A A A G G G G G A A A A A A A A C A G A G G$ G G G A A G G G G G GAGCAAAGGAAAAAAGGAAGGAGCACAGAATA $A C C G G C C G A G G A A A A A A A G A A G G G A T A G G A A A A G G A A G G G G A$ AAACCAAGGAAGGAGGGGCCAAGAAGACCGGAGGGCACCGGG GAGAACCGGGAGGAATAGGGGGGAAAAGGAAAGAGGAGAAGG GAAAAGGAAAAGGTTAAAGGAGGAGCAAGACAAAGAGACGBA TAGAAGGACAGAGGACCGGAACAGAGGCACAACCCTAGGTTT TGAAAAAGGCAGACAGGGAAGGGAGCACAGAAAAAGGGGGGA G G G G G GAAA A A A G GAGAAACCAAAAGGGAGGAAGGCCGAGAA AAGAGGAAACAGGCAGACCAAGGGGGGAAGGAAGGGGAGGAA A G G G GCCAAGGTTGGGAGAAAGACCAGAGAGAGAAGGGAGAC A GACACCAAAGGGAGCAGAAGGAAACCAAACGGTTAGAAGGC A G G A A A A A A G G G A C C A A A A G G G G G G A A A A A A A G G G A A G G G G A A G G A A G G G GACGGAGGAAGAAGACCCCCCGACATTGAAAAGA AGAAGCAGAAGCAGGGGGACCGGGGGGAGAGAGAAAGAGAAA GAGCAAAGGAAGGAGAGGAAGGCCAAGGAGAGGAGGGGACAA AAAAGGGCCAAGAGGAACCAAAAACAAGGCCGGCCAAGAAAG GAGCCAGGGGGGAGGAAAAGGCCGGAAGGGGGGAGAAGAAAG GCGAAGGGGAAGGAGCCAGAAAACCAAAAAACCGGCCGAAAA A G G A A A A A A A G G G A GAGAGCCGGGGAAAAAAGAGAAAAAGGA GCAAAGAAGCCAGGGAAGGAAGGGGGGAAGGCCAGAGCACAG A GAGGAAGGAAGAGGCCGGGGGCGGGACGAAAGAGAGAAGAA A G G G G A G G G GCA $\mathcal{A} G G A G A A G G A A G A G A A C A A A A A G G G C C G G G$ GAAGGAACAATGAAAAACCGGGAAAAAGAGAGGCAAAAAGAA AGAAAAACCCAAACAAAAGAAGGAAAAGGAACCCCAAGAAAA A G GACAAAGAACAACAGAAAGACGGAAGAGAAGCCCAAAGGA CAGAAAAAAGGACAGCCAAAAGGACAGAAAGAGAAGAGGGGA A G G G G A A G G C A TAA A A G G A A A A A A A A A A A C CAA A GAA G G C C G G G G A C A G A GCGGGGGAAGGACAGGGAAAGGAGCGAACCAACA A A A A A GAGAAGGGAGCCGGAAAACAGGAAGGGGGATTGAAAA ACCCCGGCCGGAAAAAACCAAAAGGAAAAGGAAAAAAAAGAA A G G G G T TAAAAAAGGGGAAGGGGAAAAGGGGAAGGCAAAGGG G G G G G G G G GAACCGGAACCGGCCGGAAGGAAGGCCGGAAGAA $A C C G G A A A A G G G G A A G G G G A A A A G G C C G G G G A A G G A A A A A A A$ A A A A A G G G G T T A A A A A A A A G G G G G GAAAAAAAAATTAAAACAG GAAAAAAAAAAGGGGAAAACCGGTTAAAAAAAAAAGGGGCCA A A A G G G G G G G G G GC C G GAA A G G G G G G G G GAAGGAACAAAAA T TAAAAAAAAAAGGAAGGAAAAGGGGAAGGAATTGGAA
AAAAGGAAAACCGGAGAAGAAGAGGGGGGACCGGGGGAGCG GAGCCGAAGCCAACCGAAGGGCAGGAGAACACAGAGGGGGAG G G G GAGGAAGGCCAGAGGAGAGGAAGGAAAAAAAGAAAAAAG GAGACCAAGAAAAAAGGACGAGGCCAAAAGGACGGAAAATTG G G G G GAAGGAAAAGACCGGAACCAAGGAGGACGAGAACAAAT TAAAACCGGAAGGAAAAGGAACCAAAAGAGGAGAGGGAAAAG G G G A A GA $\operatorname{A} G \mathrm{G} A A A A A G C A G G G A A A A A G G G G G G G A A A G G G A G G G$ AGGCCCAAGAGAGAACACCGGGGACAGGAAGAGAAGGGGGGG A A A A A G G A A A A G G A A G GAA $A \operatorname{AGGGGGAAGGGGGGTTCAAAAAG}$ GAGGGCGAAGGGAAGGAAACGACAAGGGGAGGGAAGAAAAGG

A G GAGCCGGCAAGAGGGAGAGACAAGGGGAGAAGAGGGGGGG G GAGGAACAAGGGCAGAAGAGAAAAGAACAGAAAAGGAGAAG GAAGGAGACGGGGCCAGGGCAGAAGGGAAAGGAAAAAAAAAA A G G G G G GAAAA $A \operatorname{AGGGC} C G G G G A A G G G G A A G G G G G G G A A A C A C$ CCAAGAGGAAGAGACAAAGTAGAAAGGAATAAGTTCCAGAC G
 CA A G A A G G G A A G A G A G G G A G A G A A G G G A C A A A A A A T T A G G G A AAAGGAAAGAAGGAGGAAAAGAAGGGGGGCGAGACTTGAGGG G G G G G A G A A G G GAGACCGGAAGGCCGGAACCAGGAGAGAAAG AAAGAGGCCGAGAACGAAAAAAAGGAAATCCAAGGAACGAAA C G GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} C \subset A G G A G G G G C \subset A A G G G A G G G G A A G A A A A A G A C$ C T T A A A G G A A G A $\mathcal{A} G G G G G G G G A G G G A A G G A A C C A A A A A G A A A$ AAAACCCGACAGGGGGAGAAGAGCACAAAAAAAAGGACAAAG AACAA $A \operatorname{A} A A \operatorname{A} A \mathrm{~A} G \mathrm{G} G A A G C A A G G A A G G A G G G G G G A A A A G G G G$ A GAGAAAGGAGGAAGAACCAAGGGAACGGAGAGCCAGCCAGG GAAGGGGACAGCCAACCAAAAAAGGCCGGGGGGGGAACAAAG GCCAAGGCCAAAAGGAAAAGGCCAAAAGGAAAACCGGGGGGA A A A G G A A A A G G A A G GAAAA $A \operatorname{A} G A A G G G G A A A A G G G G G G G G G G G$ GAAGGAAGGCCAACCGGGGGGGGAAAAACGAAGGGAAGAGGG GAAA $A$ A A A GAGAACAGGAAGAAAAGAGAGAAGAACCCCCGGG ACAGAAAGGGGGAGAAGGGGAGGCAAGAGAGGAGGGACAAGG
 G G GCCAAGGAAGGGGAGAAGAGGGGAGAAGGGAAAGAAAAAA
 CAAGGGGAAGGGGAAGAAAGGGGGGGAGGAGAGCAAAAAAAG ACCAAGAAAGAGAGGCCGGAAGAAGAGCCGGAGAAAAAGAAA G GAAACCGGGGAGAAGGAAAGGGACGGAAAGCCAAAAAGAGA A A A A A GAGGCCAGAGGGGAGGGGGGAAAGACGGGAAAAAAAG GAGGGAGGGGGAAGGGGGGAAGGGGAAGAAAAAGGAAAACAA AAAAGAAAGAAGGCCGACCCCAAGGGGAGAAGGCCAAAAACA A G G A A G G C C A G A C G G G G G A G A A G A C G G G G G G C C A G A A G G G A G AACGGGGAGAGGGAAAAGGTTAGAAGAAGAAAAAGAAGAGGA A G GAAGGCCCCGGGAGAGGGAAGAGGGAAGGAACCAAAAAAG GAAGGAGGGGAAAGGGAGGAAAAGGAAAGAAGAGGGAAACAG GAGCAGAAAAGGGAAGGGGAGGGAAGGGGAAAACCGGGGGGG G G G A G G G A A G G G G A C G G A G G G G G G G A A G G C C G G T T G G A A C C A AAAAAAAGGAAAAGGAAGGAAAGAAGAGGGGGAAACAAAAAA GAAGGGGGGAACAAAGGAAGGGGAAGGGGGGAAAACCAACCG CAAAAAAAGAGAAGGCAAGAGAGGAAAAAAAGGAGGGGGCCG GAAAAAAAGGAGAAGCCGAGAAGAAGAAACAAAAAAAAAAAG GAAGGGGAAAGGGGGAGGGGGGGGGAGGGAAAGCGAGGGCCA A A A C C A A A G A A A G CAAAGGAAAAGGAACCGGGCCAABAAAA $A C C A A A A A A A A A A A A G G A A A A G G G G A A A A G A G G G A A A G A A G G$ GAAAACCAGACGAAGCCGGCCGGGGGGAAGGGGGGAAAAGGG A A G G G G A A C G A A G G G A A A A GAC CAAAA A G G G G G GACAA GA G C
 C G G G G C C A A G G A A A A G G A A G G G A A GAACAGGAA A GAAG G G A A A A G G GCAAAAGAGAGGAGAGAGAAAGGCAAGAAAAGGGGGGA C G GAGGGACGGAAGGAACCGAGAGGGACCGAGAAAGGAGAAC A G G G G A A CAGACCCCAGGAAGAGAGGAAAGACCATAAGACCA A G G G G G G A C A A G G A A A A A A G G GAGGAAGGGGAA GAAAA A A A G G GAAA A $A \operatorname{A} G \mathrm{G} G \mathrm{G} A A \operatorname{A} A C A A G A G C A G G G G G G A G G G G G A A G G G G G$ G A A T A G G G G A G A A A A C C G A G G G G A A C CAAAAAAACAGA GAAA A A A A A A ACAAGTAGAAAGGAGAAACAAAAAAGGCAAGAAGAA A A G G GAGAAGGGAAGAAGAGAGAAAGGAAGGGGAAGAGAAAG GAGAAAAAAAAAAGAAGAAAAAAAGAGGAATAACCAACCGGC C G A A A G G A G G G G GAGGGGACAAAAGAGAAGGAAAGGGCAAAA $A C C A A G G A A G G A A G G A A A A A A A A G G G G G G G G G G G G G A A A A A G$ GAACCAAAACCGGGGCCGGAAAACCAAAAGGAACCGGGGCCG

GAAAAGGGGAAAAGGGGCCAAAAAAGGAAAAAAGGGGGGGGC CAACCGGAAGGAAGAGCGGAGGAAAAGAAGAGAAGAAAAAGG A A GAA $\operatorname{A} G A A G G G G A A A A A A A A A A A A A A A A C C A A G G G G G G G G A$
 G G G G GAAAAAAGGACGAAAGGAAGAGAAAGAGGAAAAGAAAA A A A GAAAAAGGAAGGGGAGGAGGAAGGAAAAGAGGCCAAAGG A G G G A G A G G A A G A A G G A A G G G A G A A G G G G G A G G A A A G G G A A $G$ $G G A A G G A G G G G A G G G A G A A G A C A A A G G G A A A A A G G A A A A G G G$ G G G A A A A G G A G G G A G G G A G A A A A A A G GA $\operatorname{A} C \subset A A A G G G G G G G G$ GGACCAAGAAGCACCGGGGACAACCAAGGAAGGGGGGAAAAA A G GAACCAACAACAGAAGGGGCCGGAAGAGGCACCGAGAAGG G GACAATAGGAGGGAAGAGGAAGAGGGGAAGGGGGCCAAAAA G G G C A G G G G G G G G A A A $\mathcal{A} A G G G G G G G G G A A G G G G C C A A A A G A C$ A A G A A G G A G G G A A A G GAA $\mathcal{A} G G A G G G G G G G G G A A A C G A A A G G A$ AAAGGGGAAGGGGGGGGAGAAAAAAGGGGGACCAAGACAGGG GAAGGAGAAGGGAAGCAAAAAGGAAAAAGAAGGAAGAAAAC T

 TAAGGGGAAAACCAAAACCGGGGGGAAAAAAGGAAAGGAGGC CAAAAAGAAAAAAAAGGCCCCAACCAAAAGGAAGGAAA GAGAA A A A A A G GAAGGAAAGCACAGGGGAATTAACCGAACGGGACCA G GAGAAAGGGGCAGGAGCAAGGAAGCCAGAGGGGAAAACAAC C G G G G G G G GAAA $A \operatorname{A} \operatorname{A} A A A A G G G G G G G A A G G A A A A A T G G G G G G A$ AAGGAAGAGGGAGGAAAAGAAAAGGAAAAGGGGCCCCAACAA AAAGGAGAAAGAGGGAAGGGAAAAAAAAAGGAACCGGAAAAC $C \subset C A A A C A G G G A A A A A A A A A A G G A A A A C C G G G G A G A A G A A G G$ $C G G A C G G A A A A C C G G G G G G A A A A G G G A A A A A G G G G A A A A G G G$ G GAGGAAGAGGAAGGAGAGGAACAGGGAAAAAAGGAAGGCCG GAAGGAAGGGAAGGGGGAAGAAAGGATAAAAAGAGCCAGAGG GAAGGGGAAGAGAAAAGCCGGGAAGGAGGAAAGCGGAAAAAC C C C A A $\mathcal{A} G G G G A A G A G G G G G A A G G G G G G G G A C G A A A A A G A A A G$ G G GAA $A$ A A GAAAAAAAAGGCCGGGGAACCGGGGGGAAGAAAG GGACCGCCAAGAGCAGAGGAACAAGAAGAGGAGGGGGAAGAA AAAGGAAGAAAAAGAGGAGAGGGGGAAAGAACCAAGGAAGGG GACGACAAGCCGGGAAGAAAAAACCAAGGAGAAAAGAGAGGA GTTAGGGGAAAAAAAACAAAAAAGGAAGGAGAAAACAGGGGG $A C C G G G G A A A A G G A A G A A T A C A C G G A G A G G G G G A A G G G G A G G$ AAAAAAACACCAACCGGAAAACCAAGGGAGGAAGGGGGGAGA $A C C A C A A G A A A G G C A G A A T G G G G A G A G A G G A G A G G A A G G G G A$
 A A A A ACCAAAGACGACAAAGGGGCCAGGGACAAGGAAAAGAA ACCAAAGAGAAGGCAGAGATAGACAAGAAGAGGGGGGAAACB $A G A A C C G A G A G G G G A G G G G A C G G G G G G G G A A A A A T A G G A G A G$ G GAGAAGGAAGAGAGGAGAAGAAGCGAAAGGGAAAGGACAAA G G G A A A A G GA G G G GAAAAAAGGGACATGGAAGAAAAGAAAAA G GAGGAAGAAAAGAAACCCGAAACCAAGGAGGGABAGGAAGG GCAGGGGGGGAGGGAAAGGGAGAGAACGGCCAACCAAGGGGA G G GAACCAAGAGGGGCAGAGGCCAAAACCGGCCCCAAAAAAA G GAA A G GAACCGGATACGGCCAAGGGGAGAAAAGGGG
GAGAAGAGAAGAAACCGGAGGGGGAAGGGGAAAGGGGAAAA GAAGGAAAAAAAACGGGGAGAAGAAAAGGGAAGGGAAAAAAG G GAGAGGAAAAGGGAAAGAGAGAAGAGGGGACCBAAGAAAAA GAGCAAAAAAAGGAAGGGGGGGGCCCAGGAAGAAGAAACAAA CAAAGGATTGAGAGAAGGGGGAAGAGAAGCCAGAGAGAAAGA
 GAATTGGAAGGGGAAGAAAGGGGGAAGAAAAAGACGAAGACG A G GAGCCAAGGAACCGGGGAAAAAGAAAGACCCAAGGGAAAA A A A C C A A A A G G A A G A G G G G G G G A G GAG G G G A A G A G G G C C G G A $A G G C A A G G A A G A A G G G G A A G G G G C A A G A A A A C C C C G G A A A G A$

A A G GAA A A G G GAAA $A \operatorname{A} G \mathrm{GA} A A A A A G G G A A G G G G G G A G G G A G G C$
 G GAGAAACCAAAAGGAAAGAAAGCAGGGGGGAGAGACGGGGG $G C C A A A A G G A A C C A A A A A G G G A A A A G G A G G A A A G A G A G A A A G$ AACACCCGGGGAGTTGGGAGGAGAAGGGGAAGGAAGGGGGGA C G G G G G G C A A G A GAGAGCAAACCGGAAAACCAAGAGGGAAAA AAAAAGGAAGGAAAACCGGAAAAGGAGGGAGGGAAGGAAAAG G G GCCACAGGAAAGGGAAGGAGGAGACCAGGAGAAGAAAGGG
 AACAGAAAGGAACGGAATTAAGAGGGGGGCCGGAAGGAAGAA G G G G G A A A A A CAC GAA $A \operatorname{A} A A A G G A A G A G G G G G A A A G C A A A G G G$
 C G G G G G G G GACAACCGGCAGAAGAGAACCAGAGAGAGGGGGA $G C A C A C G A G A A A A A A G G A A G G A G G G A A G G A C G A G A A G A C A C B$ G GAAAAAGGAACCAAGGAAAAGGAAGGGGGGGGCAAGGGGGG G G GAGAAAGACGGGGGGAAAACCAAAAGGAAAA G GAAAAACC G GAAAAGGAACCGGAAGGCCGGGGGGGGAAAAGGGGCCGGGBA A G G G G A A G G G G G G A A G G A A A G A A C C A G G G G G G G A G A A G G G G G $G G G G G G G G A G A G A G G A A G A A A G A G A G G G G A A G G C C A A A G A G G$
 GACGAGGAAGGAACCGAAAGGAAGGGAGAGAGGGGAAAGGGA GAGGGAAAGATAGAGCCAAGAGGGACCAAGAAGGGCAGACAA A G G A A A A G GA GAAAACACAGAGGAGAGAAGGAGAAGAGGGGA A G G G G G G A A A G G G G G G G A C G G C A G G A A A G A A G G G A C C C C A G G

 T G GAA A A A G G GAAGGGACCAGGGAGAAGGGGAGGAAAACAAC C G GAGAGGAGAAAAGAGGGCCAAGGACAAAAAAGGAAAACAA AAAACGGAGGGGGCAGGAGCAAAAAAAAAAAGGAAGGCAAAA $A C C A A A G C A G G A G A A G A G A A A A A G G G G G A G G G A A A C C G G G G A$ A G G G GCAACCAAACCAAAAGGAAAGCCAGAAGGAAAAAGTAA CAGAGAAAGAAGGAAGAACGGAGAAAAGGCCCCAACCAAGGC CAAAAGGAACAGGGGGGGGAGAGAGAGACCCAAAAGGGGGGG GCCGGAAAAAAGGAAGGAAGAAGAGACAAAGGGAGGAAAAGA ATAAAGGAACCAAGGGGGGGGCAGGGAGACCAGAAAAGGGGG GAAGGCAGGCCAAAACCAAAACCAACAAAAGGAGGGGGGGAG G G GAGGGCAACAAAAGGAAAAGGAAGGCAGGGGGGAGAGCAC AGGCCAGCAAAAGAAAAAAAAGGCCAGGGAAAAAAAAAAAAA AAAGGAAAAGGCGGGCACCAGAAGGAGGGAAGGGGGGCAAAA GACGAGGGAGACCACGACCCCAAAAGAAGAAAACCAAGAGAA A GAAAAAAAGGGGAGGGACCCCCGAGAGGGGGGGGAAAAGAA GAGAAGGGGGGGGGGAAAATTGGGGAACCAAAAAAGGCAAAC CAAGGAAAAGGGGAATTAAAAAAAGAAAACCAAGGCCACAAA A A A G G A A G G A A A A G G G G A A A GAGCGGGGGCATAAAAAAAAC G GAACAAAGGGGAAGGAAGAGGGGAGAGGGCCAGGAGAGAAGB
 $A C C G A G G C C C C G G A A A A C C G A G G G G G G A A G G G C A G G G G A A G B$ GAA A G A A G G G G G G G CAA A G G G A A GAGGGGCCAA G GAACCGGG G G GAAGACAAAGGGGCCAAGGGGGATAAACCAGCACAGAAAG G GAAAAGCGCAGGGACACACCAAGAAAAGGGAAGAGAAAACC CACAACAAAGGAAGAGGGAAGGGAAGAGGAGAGGGAACAAAA C CAG GACGGGAGACCGGAAAAAAGGAAGGCCGGGAGAGAAAG GAAGGCCAGAACCGGGGAAAACCGGGGAGCCAGAAGACAAAG ACAAAGAGGAGAAAGGGGGAAAAGGAAGGGGAAGGTTCAAAG A G G G GCCAAACAGGGGGAAAGAAGGAGAAAAAGGGAAGAGGC CA G GAGAAGGAAAAAGGAAACGGACAGAGGATTCAGAAAGGC C G G GAA A A GCCAAGGGGACAATAGGGAAAACAAGAAGACAAG G A A A A A A C C A G GAAAA G G G G GAAAA A GAGACAGAA G G G GAA A GAAAAAAGAGGGGGGGGGGGAGGAACAAGGAGGGGAGAAAAG

A G G G GAAGGCCAAAACCAAAAAAACGCGGCCAAGGAAAAGAA G G G A A G G G G G GCCAAAAAAGAAGGAGGGCAGAGGGAGGGAAA G GAAAAAAGGGGCCGGGGGGAACCGGGGAAAGAGCCACBAAAC A GAGAGAACAGAGAGGGAAGGAACCGGGGAAAAGGAAAAAAG GAAGGGGGGAAGGGGGGAAAAGAGGAAAAGGAGAGAAGGGGA AAACCAGGGAAAAAAAAGGCAAGAAGACACCGGGAAAGGCCA ACAGGCCAACCGGAAGGGGAGGGAGGGCCGGAACCGGAATTG GGGCCAAGGAGAGAAGAAAAAGAAGAAAAGGAAAAGAGGCCG GAGGGCAATAGAGAAAGAGACAACCCCGGGGCCGGAAGGTAG G G GAAAAGGGGCCAGAGAGAAGAGAGGAGGAAAAGGGAAAGA A G G G G GAACAAGGGAAAGAAAGGGGCGGAAAAAAAGAAGGGG AAAAAGGAAAATAAGAAAAAAAAAACCGAAGAGGAGAACGAG $G G A A A G G G G A G A G G G C C A G G G G G G G A A A G G A G G G G A A C A A G A$ G G G A A A A G G G G A A A A A A A G GA G G G GAGAACCGGAA G G T TAAA A G G G A A A A G G G G G G G GAAAAAGAAACCAACAGAAGGAGAACCG G G G G GAAGGAACCGGGGAAAAGGGGGGCCGGAAAAGAAGAAA A G G A A A A A A A G A A G G G G G G G G G G A A G G G G A A G G A A G G A A A A $G$ G G G C A G G G G G A G G A A A A G G A G G G GAAAAAAAGAAAA AAAAC $A$ A G GAAAATTAAGGAAGGAAGGAAAAGGAAAAGGAGAGATA G $\operatorname{T} A$
 AGGAGAGGGAAAAGGCAAGAAAACGGACCGAAAAAGAAAACC $C \subset C G G C A A G A G C A A G G G T T A A A A A A A A G G G G C C G G G G A A G G A$ G G G A A G G A A A G G G G G G G A A C C G G A A A A G G A GACAAA A A A G G A A A A A A A A A A G G A A C CAA $A \operatorname{AGAAGGAAAGAGAAAAAAGGGGGAA}$ G G G G G C C G G G A GA G CAA A G G G G GAA A GAAACGGGGAAA GAAA AGGAGCAAACCGGAAGAGGAGAGACCCGAAACCAAGGGAAAA GAACCGGAACCGGCCCCGGGGGGGAAGGGAACCCCGGAAACB GAGGGAACCAACAGGGAAAAAAAGGGGAGAAAAGGGAAAGGG GAAAAAATTGGGGGGAAGAAGAAGGAAAAGGGGAAAAAAGAG $G C A G A G G C C G A A G A G G G A A C G A G G G G G G A G G A A A A G G G A A A G$ GAAGGGAGAAACC $A \operatorname{A} A \operatorname{A} A A G G G G G G G G A C A G A A G G A G A A G A A G G$ G G G G G GAA $\operatorname{G}$ GAAAAACCGGGGGGGAAAAAGGGGGGAAAAAGA A G G GA $\operatorname{A} G A C A A G G G G A A C A A A G G A G G G A A A G G G A A A G G A A A A$ A $G G G G A G C C G G A A A G A A G G G G A A G G G G G G G G A A A A A A A A C A A$ G GAAAGGAAAACCAAAAAAGGGGTTAAGGGGGGAAGGCAAGA GGAAAAGCCGGAAAACCCCAGAACCGGGGAAAAGGGGAAGAA A GAAGACGGGACAAGAGGGAAGGAACCAAAAAAAAGAAAAAG A AACACAAGGAGGAGCAAAGGGGGGGGAAAAAAGGCCAAAAC CAAAAAAAAAAAAGAAGCCGGACAAAAGGCCAAGAACGAGGC CAAAAGGAAAAGGAAGGAAGGAAGGAAAACCAAGGCCAAAGB G G G G GCCGGGGGGAGGGAGAGAACAGAACAAGGGGAGAAGGA ACCAAAGCACAGGAGGAGGCAAAGAAAAGGGCCAAAAAAAAA $A C C G G A G G A G G G A G A A C G G A A A G G A G G A A C G A A A A G G G A G G A$ AAAAGGGAAGGGGAAAACCAAAAGGAAAAGGAGAAGGCAAGA A G GAGGAGGAAAAGGGGAGGAAGCCAAAACCAAAAAGAGAAG $G C C G G C C A A C C G A A G G A A A A G A A G G G G G G A A T T G G G G A A A A A$ AAACCAAAACCAAAAAATACAAAAACCAAAGAGGAGGAAAAG A GACCAAGGAAGGGGGGAAGGGGCCACGGCCGGAAAAGAAAG AGAACGAACCACAAAAGGGCCCCAAAGCAGGGACCGG
G GAA A G A A G GCCAAAAAAGAGGAGGGGGAGGGAAAAA GAAG GAGGAGGGGAGAAGGGGCCGGCCAGAGGGGAAAGGAAAAAAG $G C C C A A A G A G A G G G G G G A C C A G G A G A C A G A G G G G G A A A A C A G$ G G G G G G G A A A A C C G G A A A A G G G G A C CAGGGGAAA G GAAAC C C CAAGAGGAGGAAAAGAAGGGAAGGGGGCCGGGGGGCCGGAGC A A C G G G GACGGAGAAGAAAGGAGCCGGAAGGGGAGAAGAAAG G G G G G G G A A G G A A G A A A G G G G C C G G G A C C A G G G C A G G A A C A A C GAAC $A \operatorname{A} A G A A A A A G A A A A A G G G G G G G G G G G G A A G G C A G A C A C$ C C C G G GA G GCCGGCCGGGGACAGAACAGAAAACAAAGGAGGG $G G A G G A C G A G A C G A A A G G A G A A A G G A A G G G G A A A A G G G A A A T$

TAAGGGAGGAAAAATCATAAAGAGGAAGGGGGGAGAAAACAG GAAACGGGGAAAAAAGGAAGGAAGAGGGGCCAAGAACCCGGC CAAA $A \operatorname{G} G A A A A G A A A G G G G G G G G G G A C A A G G G A A A A G G A A A G A$ A G G G G G GCCAGAAACGAAGAGGAAAGGGGGGAAAGAGGAAAG AAAGGGGGGAAGGAAGAAGAGGGGAGACAGGCCAAGAAAAAA ACCGGCCAGGGGAGGAGAGAAAAAAAAAACCAAAAGAGGGGG GAGAAGGGGGAAGAAGGCCGGCAGGAGGGGGGGGGAGAAGAG $G G A A A G A A G G A A G A A C G G G G G G G A G G G G G G G A A G G G A A A C C B$
 G GAAGGAAAGGGGAAAGAAGACCGGCAGAGGAAAAGGGGAGA GAAAGGGGGAAAGGAGGAATTGGAAGGCGGGAAGBAACCGGG GAAGGAGACGGGAGAGGGAACGACGAGGAAGCCGGCCAAGBA A G G G G A A A G G G A A C C A A A GAGGGGGGGAAGAAAAA G A A GAAA A $A G G G G G G A G G G G G A A G G A A A A C C G G G G A G A G G G A G G G G A A A A$ AAGGGGAAAGAAAAAGGACAAAAGGCCGGAACAAGGGAGCCA A G G G G G G A A G G G G G GAGGGGGAAGGGGAAAGCCGAAGGAGAA GAGGGAGGAAGGGAGAGAAAAGGAGAAAGGGCCGAAACAAAG G G GAA A G T TAAAAACAGGAAAAAGGGGAGCCAAGBAAAAAAG AGGGGAACAGGGGAACCCCGGAAAAAAGAAGCAAAGCGGAGC ACCGGCCGGGGAAGGGGGGAGCCAGAAGGAAGGCCCCAAAAC CAAAAGGGGAAGGAAGGAAGGAAAAAAAAGGAAAGCCGGACC CAGGGGCAAAGACACGGGGGGTTGACCAAAGAAGGGGGGCCA A G G A G G A G GA G G G G A CAAAGGGGAGGAGGGAAGACCAAGAGG GAAAGCCGAGGGGGGCCGGGAGGGGCCGGCCGGAAGGAGAAA ACCGGCCAACCAACCAAGATAAAGGCCGAAAGGGGAGGGCCG G G G A G A G G G A A A A A A A A A G G G A G G G G G G G G G G G A G A A A A G G T
 C G A A A GAAAAAAAGGCCGGAAAAGAAAAAGGGAGGGAAAAAC A A G A G G A G G G GCC $C$ G G G G G G G G G G A A G G C C G G C C G G A A G G G G A A A A A A G G G G G G G G A A G G TAAA A G A A A A G G G G G GAAAAAAT TA ACAGGAAGGAATTGGCCGGAAGAAGAGAACCGGGGGGTXAAA GCACAAAAAAAGAGGAAAAGGGGAAGAGGAGAAAAAAAAGAA

 TAAGGGGAGAAGGAAGGACAAAGCCCCAGGGAAAAAGA GGAG $G G A C C A G C A A A A A C C A A G G A A C C G G G G G G G G A A G G C C G A A G G$ G G GAA $A$ A $\operatorname{A} G A G C C G G G G G G A C A A A A G G A A G G A A A A A A G G G A C$ $C C C A A G G A A G G G A C C G G A G A G G G G G G A G G G G A A A G A A A G G G G$ GAAGAAGGAAGAACCAACCGGAGAGAGAAGAGGCAAACAAAA CACGGAAGAGGGAAGGGGGAAAAAAAGAAGGAAAAAAGAGAA AAAAAAAGGAAACCAGGAGGGAAAAAGAGAAAAAGAGACGAG G G G A G G G G A A $\mathcal{A} G G G G G G A G G G G G G C G G G G G G A G C C G G C A A A C$ $C G G A A A A G G G A A A G G A A G G A G G G G G C C G A A G A G G G C C G G A G G$ GCCAAGGAAGGAAGAGGCCGGAAAACCAAGGACGGAAGAAAG GAGAAAAAAAAAAGGGAACAAAAAAGAAACAAAAGCCGGCAA AAAGGAGGAAAGAAAAGCCGGAGAAAAAAGGGGCGGGAACAA
 A A G G G A A G GAA A A A ACAAACCGAGAAAGGAAGGGAAAAACAC $C C C A A G G G G G G G G A A A C A G A A G G C A A G G G G A C C C C G G G G G G A$ A A A GAGGGGGGGGGAGAAAGGCGAAGGAACGACAAGGGGGGG GAAAAAGAGGAAGGAAAGAATGGGGAGAAAAAAAAGGAAAAG G G GAGGAACAAAGCCGAGAAAGAAGAAACAGACAAAGAAAAG GAGAACCAAGGAAAGGGGGGGGAGAAACCGGAAAGGAGGAGA AAAAGGAAAGAAAAGAAAAAAGGACAACGGGGGGGGACACAG G G G G G A A A A A A A GAGTAAAGAGAAAATTAACAACCGGCAAAG GA $\operatorname{G} G \mathrm{G}$ TACCGGGAAAGGAAAGGGGGCGGGGGAAAGAGGACCT T GAGAGAGGAAAAGAGGTAGGAACAAGGGAAAACCAAGAAAG GAGGGACGGAAGAGGAGGGCCGGGGGGAAAAGGAAAAAAGGA AAAAGGAGGGGAAAGGAGGAGAAAGCAGGGGAAGAGGGGGGG

G G G G A GAGAAAAGGGGGAGGAAAGGAGAGAAGGGGGCAAAC
 G G G G A G G G G G GCCAAAAGCCGGGAGGAACAGGAGAAAAAAGA G $A C C G G C C A A A A A G G A A A G A A G G G A G G G G G G G G A A A A G G G G G G$ G G GAACAAAAAAGGGACAGGGCCAAGGACAGAAAAAGCAAAA A A A G G G G A G A G G G G G A A G G A A A G A A A G C C G GA G A G G G G G A G A G G A G G T T A G G G A A G G G G G G CAAACCCAAAAAGGAACAAC G GA G G G G GAAAAAAACAGAAGGAGGAAGAAAAGGAGGAGGGAAAG A A GAAGAGAAGAACACCAGGGAAAAAAAAGGAGGCAGAGAAA AGGAAGGCCAAAAGAGAAAAAAGGGAGACGAAAAAAAG GAAA A A GAACAGGGGGGGGGGAAAGGAAAACCCGGGGAAGGAAAAG G GAGGGGGGCCGGGAAACGCAGGGGGGGAAGGGCACACAGAG GAAAAGGCACAGGAAAAGGAGGAGGAGAAAAGAGGGGAAAAA A A A G G G G A A A A GAGGC CAA AGGGAAAAAATTAGAAACATGAA G GAACGGGGAAGGCCGGAAGGAAGAAGGGGATAAAGAGGGGG G G GCAGGGGAAGGAAGGAAGAGACAAAGGGGAAAAGAAATTC CAAGGGGAAAAACCCAGCCGGGGGGAAACGGAAGA GAA GA G C ACGAAGGGGGACCCCGGAACCGGAAAAAGAAGGAAAGGAAGG $G G G G G A G G A A G G A A G G G G G A A A A G G A G A G A A A G G G C C A G A G G$ G G G G G C C A A G G A A G G A A A A GA $A \operatorname{AGGGGGAGGGCCTTACGAAAG}$ G GAAGCAAACCCCGGAGAGGAGGGGCCAACCAAGGAGAGAGG G G G TAA A A A G GAGAAAACAAAAAGAAGGGCAAAGGGGGAAAG GTTAAAACAGAAAGGAAAAAGAAGGAAGGAAGGGAGAAGACB G G G A A A A A GCCCC GAGGGAAGAACCGGCXAAAAGGCCAACCB G G G A A G G G GCC $C$ CAA $A$ A A $\mathcal{A} G G G G G G A C C G G G G G G G G G A A A C A A$ A G GAA A A A A CAGGCCGGAGCAGGGGGGGAAACGAAAGGGGGA A G GCCAAGGAAAAAAGGAAGGAAAAGGGGGGAAAGGGGGGGG GAAAATTAAGGAACCGGAAGGCCGGGGCCGGAAGGAAGAAAA A G G G G G G A A G G G G A A G GCCGGAAAAAAAAGGCCAAAAAACAA AAAGGAAGGGGAAGGGGGGGGCCGGAAGGAAGGGGGGAAAAA GCAGGAACACAAACCAGAGAGAGGGCCAAAGAAAGAAGGGGG GAAGAAAGGGGAAGGAGAAAGGGAGGGGGAGGGAAGAAAGGG A G G G G A A A GAGAAAGAGGGGAAAGGCCAAAAAAGGGGGAAAA AGGCCGGAAAATTCCAAGGGGAAAAAAAAGGGGGGAAAAAGAG G G G A A A A G G G GCCAAAAAAAGGGGAAGGAACCAAGGAAAAGGG

 AAAGGCCAAAAGGAAAAAAAAAAGGAACCAAGGAAGGAAGBAA
 A A G G G A G A G G A A A A A A GCC CAGGGGGATAAAGGGAGA GAA GA C G G A G GAC GAAA A GAGAGGGGAAGGGGAAAGGGCGGAGGGGG G G G A A GA $\operatorname{G} G \mathrm{G}$ GAAAAAGGAAGGCCGAAGAAGGCCAACCGGGGA $A G G G A G G G G A A G G G G A A A A A A A A G G G G A A G G G G G G A G A A A G B$ G G G G G A GCCAG G G A A G A A G G G A G G G CAC C G G G G G G G G A A G G A AAAAAGGCAAACCGGAAAACCAGGGCCGGAGAAGGAGABAAG G G G G G G G A A GAGGCCCAAC GGGAGGAAGAAAAAGGGAAACAA $G G A C G A A G G A A A A G G G A A A G G C C A A A A G G G G C A A A A A G G G G A$ A G G G G A A C C A G A A A G G GAGGGGGCCGACAGAAGGAAGCAAAA A A A C A G G G GAA $A \operatorname{A} A G C C G G A A G G A A G G G G G G G G A G A G$
 GAGAGGAAGGAAGAAGAGGTTTAGAAGGGGGAGAAAAAAGAA GAGGGAAGGACGGACCCAAGAAAGGGGAAACAGAGGGGAAAA GAGGGCCGGGGAAGGGAGGAAAAAAAGGGAACCGGCACAAGG AAAAAGAGGAAGGGACCGGCCGGAAGGCAGAGAGGGAAAAAA A GAGGGAAAAGGAAGGGAAACGAAAAGCCGAGAGGGAAAGGG $G C A C C A A A A A A A A G G G G G G G G A A G A T A A A A A A G A G G G G B T A G$
 G G G G A A A C C A A A A A A G A G A GA G G G A G G G G G G A G A G A G G G G A A $A G A G G C A A A A A A A G G A A G A C C C C G G G G G G G A G A G A A C A A A G A$

CACAAAGGGAAAAGGAGCCGGCAAGGAAGAGAGAGAGGAGGC C G A G G A A A A C A T T G A A G G G A A G GAT GA G G G GAC G G G G G G G C A G G A A A A G A G G A A G G G G G G G G A G A A A A G GAAA A G GA GAC C G G A G G GAGGAAGAGGGAAAAGGGGGGAAGGGAAGAAGGAAAACAA $A C C G G A A C C A A G G G G G G A G A G C C A A A A G A A A G A G G G G A C G G G$ GAGGAGAGAAGAAAAGGAGGGAAGGAGAGGGGGCAGGTXAC G G G G G G G G A GA G GACACAGGCAAGGGGGAAAGAGAGGAGAAAA $G C C G G A A G A G G A A A G G A G G G A A G G G A A T A G G G G A T G A G A G A A$ A A GAGGGGAAAGACCGGAAAGAAAAAAGGGGAGAACACAAAA G GAAAAGGAAAGGAACAAGAAGGAAAACCAGGGAAAACAGAA AAGCAGGGGGAAAGAAAAAAAAAAAAGAAAAAAGGCCAAGAA A G G G G GAA $A$ A A GAG GAAGGCCACGAATGGGAGGAAA GAGAAA A GAGACAGGGAACGGGAAAGGAAAAGGCCAAGGAAAAAACCC CAAAAAAGGGGGGAGAAGGGGGAGGGGAAAAAAAAAAGAAAA AAAGGAACCGGGGAGAGGGGGGAAAGGAAAAAAGGAGCAAAA A G G GAGGGGAAAGAAAAGGAGAAGAAAGGCCAAAAAGGAGAG A GAA $A \operatorname{A} A A G A A G G G G G A A G C C A A A G G G C C A A G G G A C C G G G C G$ A A G A G A G G G G G G A A A G G G G G G G G G G C C G G G G G G A A A A G G G G A $A G G G G G G G G G G A G G G G A G A A G A A G G G G G G A A G G G G A A A A G G A$ A G G A C G A A A A GCA G GAAGAAAGAGGAAGGAAAAGGAAGAAAG G G GAAGGGGAACCTTACAGAGGGCAGAGAGAAAAAAAGAGAA AAAAAGGGGAACCAAAAAGGAAAGGAAAGGGGAAGGGGGGAA AAAGAGGAGAGAAGAACAGAAGGCCAAAAAAAGGAAAAAAAG GAAAAGAAAGACCAAAGGAGAAAAAAAGGGGGGAAACGAAGG $A C C G A G A A A A G A G G G G G G G C C G G A G A A A A G G G G A A A A A A G A A$ A G GAAAAAAAGGAAAGAAAAAGGCCAGGAAGCGGGGGAAAAC C G G G G GAGAGGGGAGAAAAAGAGAGGAGGAGAAGGGGAAAAA ATTACAGAAAAAAAAAGAGGAAGCAGGCCGGGGGGGGGGCAA $A G G A G G G G G A G A A G G G G A G A A G G G G A C G A A G G A A G A G A A G G G$ GAAAAACAAAAAAGGAAGGAACCCCAAACGAGGGGGAGAGGC
 AA GAGGACCCGAAGAAGAAGAAGAGACGAAAACGGGGGGCCG G GAGGAAAAGGAAAAAAGGCCGGGGAAGAAGAACCCACACAA A GAAAAAAAAACCGAACAAAGAGACGACCAGAAAAAGGGGGG GAAGGAGCCCCAAGGCAGAAGAAAGGAAGGGGGAAAAAAAAG $G G G A A G G A A A A A A A A G G G A G G G G G G G G C C G G G G A G G G C A A A G$ G GAA $A \operatorname{GA} A G A A G G G G A A G G A A G G A G G G C C G A A G G A A G G A A G A$ G GAGGGGAACACAAGGGAAGGGGAAGGAAGGGAGAAGAAGAC A G G A A A A A A A A A A A TAGGGAACCCCAAAGGGGGGA GA GAGAA
 $G G G C A A G G A A A A G G G G G G G G A G A A G G G A A G A A A T T A A A G A A C$
 AAAAGGGACGGAACCGGAACCAAAAAAGGGAAATTAACCCCG
 GAAGAAGAAAAGAAAGGAACCGAAGGAAGAGGAGAGGGAGAC
 C GACAGAGGAAGGAAGGAAAAAAAACCAAGGAAGAGACAACC $C \subset A G G A A G G A A A G G A G A C C G A A G G G G G C C A G A A A G G G A A A A G$ G G G G G A G G G G G G GC C A A GAAAGGGGGACAAACCCCCCAACAC AAGCCGGGAGAGAAGAAAAACAGGGAGGACCGAAAAAAAGAA A A A A G G G A A A A G G G GACGGGGAAAAGGAGGGAACCAGAAGGC CAAGGGGAAATAGAGAAGGAAACAGAGAGGGGA G GAAAGGGGC A G G G G A C G A A A A G C A A G G G G G G G G G G G A A GAGAAACAAACAA A G GAGGAGGAGGGAAGGAGGAAAGAAAGGGGGGAACAAAGAA C GAA ACCAGAGGACCCCGGGGGGAAAAGGGGAAAAAAAAGGG G A A A A A A G G G GCCAAAAAAAAAAAGGGGGGGGAAGGGGGAAAG G G G A A A A A A G G A A A A A A A A A A C CAA AGC CAAAA GGGGGGCC G GCCAAAAAAGGGGCCCCAAAAAAAAGGGGGGAAGAAACAGGG GAAAACCGGGGAAAAGGGGAAAAGGGGAAGGAAGGGAAAAAG

G G GAAAAAAGGGGGTTAAAACCGGAAGGGGGGAAAAGAAAG GAAGGGGAAGGAAAAAAGGGGGGGGGGCCAAAAGGAAAATTA A G G G G G G A A A A A A A A A A A A A A G G G GAAAA A G C C A A G G G G G G A A GGAAGGGGCCAAAACCGGAAAAGGGGAAGGGGAAGGGBAAA AAAGGGGAAAAAATTAAAAGGGGAAGGGGAAGGAAGGGAAAG GAAAAGGGGAACCCCAAAAAAAAAAAAAACCGGGGAAAAGAA AAAAAGGAAGGAAAAGGAAAAAAAAAAGGAAAAGGGGGAAAA AAAGGGGGGAAAAAAGGGGAAAAGGAAAAAAGGAAAAGAAAC A A GCCAAAAAAGGGGAAAAATGGGGGAGGAGAAGGAAAAGAA GAAAAGGGGAAAGGGAAACGGAAAAAAGGCCGGAGGGAAAAC $C \subset C T T G G A A A G A G A A A A A T G A G G G G A A G G G G A A G G A C G G G G G$ G G GCC G G A GAA $\mathcal{C} G C A A A C C G G A A G A G A A A A C G G G G G G C C G G G$ GAAGAAACCAAGGGGCAGGCCGACCGGCCGGAGGAAGAAGAG G G GAC GAAAGGAGAAAAGGAAAAAAGAGGGGCAAAAGGAAAAG G G G G G G GAA $A \operatorname{GAA} C \subset G G A A G A G G G G G G C C G G A A G G G A G A A A G$ GAAGGAACAGGAAGGGGAGGGAAGGGGACCCAGGAAGAAAAC CAAAACCGGGAAGGGGGAAGAGGGGCCAAGGAAGACACAAAA A AACCAAAAAAGAGGAACCCCGGGGACAACAAAGAGAAAGAA $A C C C A G G G G G G A G G G G G A A G A G G A A G G G G A A G G G G A A A C G G G$ G G G A A G G G G G G A A A A A G GAAAAGCAGGAAGGAAAC GAAAAA G G G GAGGGAGAAAGAAAAAAGGGGAAAAGAGAACCAAGACGAG GAGAGCAAGAAGGCCGGGGGACAAGAACCAAGAAGAGAACCA G G GACAAAGGAGACAAGCCGGAACCGGAAGGGGAAGGCAAAA A A A G A C C A G G A G G A A G G G G G G A G G G A A A A G G A A G G G G G A C C A AAAGGGGAAGAAGGGGGAAGACAAAAGAAAGGGGGGGGAAAAA G G G GAAACCCCAACCGGAAGGAAGGACGAAATACAGGGAAAA AAACCGGGGAAGAAAGGCAGACACCAGACAAAAGGGGGGAGG G G A A A A G A GAA $A \operatorname{GA} A C C G G C C G G G G A A A G G A A G G G A G C A A G G$ GAGGAACCAAAAGAGGAGACAAAAAGGAACCCCAGAAGAAAA A G GAACCGGAAGAAGGGGGACGGAAGGAAACGAAGGGGAGAG
 A G GAAGGACCCAGCCGGCCGGGGAGGGAAAAAAGACAAAAGG GACGGAGAAAGAACCGGGAAAAACCCCGGGGAAGGCCCAAAA
 $A G G A G G G G G G G G G A A A G A A A A C A G G A G A A G G G A A G G G A B A A G$ GA $A \operatorname{G} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAGAGAGGGGGGGAAGAAGGAAGGAAAAGGG AAAGGAAAAAAAAAGACGGAAGGGAAGGAGAGAAGGAAGAGG GAGGGGGGGGGAGAAAGAGAGGGGGAAGGGAGAAAAAGGGGG A G G G G G G G G G G A A C A A A A A A C A A G GAGGAAGCCAGAAAACAA G G GCC $C$ G G G A A G G C G G G G G G G G G A A A G G A C C G G G A A G G G G G G $G C C G G A A A A A A A A G G A G G G G A A A C C A A C A G A G A A A A G G A C A A$ G G G G G A A A A A ACCACCCAGACCAACAAGGAACAAGBAAGTTG G G GAGGGGGAAGGGAAAAAAACAGGAAGGATGAAGAAGGGGG GAGGGGGAAGGAAGGCCAAGAAGAACAGGGGAGGAGAACAAA GAGGGGAGGACAGAGGAGGAAGGACAGAGCCAAGAAGAAAAC CAAAAGACCACACCAAAAAAAACGGGAAGAAAAAA GAGGGGA A A A A G G G C C A G G G A A C C G G A G G G A A G G A G A G A G G G G G C C G A G ACCAAAAGGAACCCCGGAAAGAAAGGAGCGAACCAGGAAAAG GAAAGGGGAAGGGAGCCGGCCAAGGGGAAAAAACAGG
$G G C C G G A C G G A A C G A G G G A A A G G G G C G A C C A A A A A G A A A A A$ GAAAAAGACGGAAGAAAGGGGAGGAAAGGGGGGAAAAAAGAG $G G G C C G G A A G A G A A A G G A G A A G G G G G G G G G G G A A G C C A A A A G$ GAAGGAAAAGAGGACGGAAGGAAAAAGAAGGAAAAAGAAAAG A A G G G G G G G G G G GAAAAGGGGAAGACCGAAGCAAAAGAAAAC C C C G G GACCGGGGAAGGAAAGCAGAAAAGGAGGGGACGECCA A A G G G G A G G A A G G A A G G A A G G G G G G A A A A A A A A G G C C GA C A A
 G G G G G G G A A A GAG G GAAAAAAAA AAAGGGGGAGGBAA G GAA GA AAGAGAGGAGAAGGAGAAGAAAGACAGAGCCGGAAGGGAAAA

AAAAAAGGGCAAAGAGGGAGAAAAAAAAAAACCAAAGAGAGG GA $\mathrm{A} A \mathrm{~A} \mathrm{~A}$ GAAAACCAGGGGGGGAACCCCGAGGGGAGGGGACAA GAGCAGGAGAGGGAAGGCCAAAAGGGGCCGAAGGAAAAAGGA A G GAAA A A A G G G GAGGAAAGGGAAAGGAACCGGGGAAAGAAA AAGCCAAAAAAAGGGAAAGAGGAAAAACAGGGAAAGAA GAAA AAACCAGGGGGGAGAGAGGCAAAAACCAAGGAAAACCGGGGA A G G A A A A A A A A A A G GAACCAAAAGGAAGGCCGGAACCAAGEC CAAAAGGAAAAAAAAGGGGAAGGGGGGAAAAGGGGAAAACAA
 $A C C A A G A A A G G G G G A A A A A G A G C A G G A G A A A G G C A A G A G G G G$ GCCGGGAGGAACAAAAGGAGAAGGGGGAAAAAGGGGGAAAAC A A A G G A A G G G GCC $C$ G G G G GAGAGGGGGAGGAGGGCAAGAXAAG
 ACAGGAAAAGGGGAAGGGGAGGATTGGGAAGGGAAAAAAACG G G GAAGATTGACAAAATAGAAAGGAAACCGAAAAAAGAAAA G GAAGGGGCAGGCCGGGGGGAAGGGGGGACAAGAAACCGACAA GCAGGAAGGAAGAGGGGAAGACACAAGGGGGCAAACCCAGBA AACGAAAGGAAGGAGAGACAACCGGGGAAGGGGAAAAAAAAC A GAGGAAAAAAGGGGAAGGAAGGGGCGCCGACCAAAACAAAG G G GAAAAAGAAGGAAGGGGCCGGCCGGACGAAAAAAAGGAAA AAGAAAGAAAAAAAAGGGGGGAAAAGGCGCCAAGAGAAAAAA G GAAACCAAGGGGGGGGAGATGAAGAGGATTGGCCAAAAGGG AAAAAGGGAACGAGGAAAAGGAGACGAAAGGGGGGGGGAAAA
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 $G G A A G G A C A A G C C G G A A G A C A G A A G A T A G G A A A A G G G G A A G A$ TCACCAAGAGGCCAAGGAAGGAAAAGGCAAGACAAACAAAAG GAGAGAAGGGGAAAAGGCCGGAGGGAAAAGGGAGGAAAAGAA A A A G G A A G G G G A G C A G A A A A GAGGAGGCCAGAC G GA G G G G G G G GAA A G G G G G A G G A T T A C A A G G G G G G G G G G A A G G G G G G G G A A A A A A G G G G G G G G G G A A A A A A A GAGGAAGGGAAAAAGGGAACAA CAGAAGGAAAACCGAGGAAGGAAAAGAAACGGGCCGGGAGAAA $G C \subset C A C C A A G G A A A A G G A A A A A C A G G G G G A G C C A A A G A G A G A$ AAAAAAAGGCCGGGGGGGAGGACAACCAGGGCCAAAAAAAGA A A GAAAAGGAAGAGAAGGGAGAGAGACAGAAAGGAAAAAAGG G GACAAGGGGACCGGGGGGGAGGAGAGAGCAAGAAGGAGAAG GACGAAGAGGAAGAGAGAAGGCCGGAAGGAAAAGGAAAAGAA A GAGGGAGGAAAAAAAACCGGGGACGGGAAAGAA GAGGGGGG $A C C G G A A G G A A G G A A G A T T A G A G A A A A A G A G G A A G A A A G G G G$ GAACCGGGAGGGGAAGGGGGGAAAAGGGGCCGGGGCCABAAC C C C A A A A G G G G A A $\mathcal{A} G G G G G A G G G G A G G G G A A G A G G G A A A G A A$ G G G GAGGGAAGAACATXCCGGGAAAGGCCGGACAAGAGAAAA GAGAGAAGGGGAGAGGGGCGGGGAGTAGGAAAAGGAACAAAA A G G G G GAAAAAAGAAGGGAAAAGGGAGAGGAAGAGGACAAAG

GAACCGAACAGGGAAACAAAGGGGGAGCCGAGAAGGGGGGGA G G G G GCCAAGGGGAAGGGAGGCCGACAAGAGGAGAAAAAGAG A G A A A A GCCAGGGGGCCGGGAAACAGGAGGATTAAAAAAGGA A GA $A \operatorname{GA} A \operatorname{A} G A G A G G G A G G G G G G A G G G G A A A G G G A A A A A A G G G$ G GAA $A$ A A A A $G A A G A A G G G G G G A A T T A A G G G G A A A A A A G G G G A$ A A A G G G G A A A G A A A A $\mathcal{A} G G G A A A G A G G A G A A G C C A A A A G G G G C$ A G GA GCCGGACAAAAGAGAAACCCCGAAGAGAAAAGGAGAGA AAAAAAAAAACGGGGAAAGAAGGAAGGGAGAGAGGAAGAACB
 $C A C G A G G A G A A G A G G C C G G G G G G A A G G G A A A A A C A G G A A A G A$ CAAGGAAAAGGGGAGGGACGGAAGGAAGGGGAAGGAACAAAA A A A A A A GCCGGAAGAGAAAGAGGCACCCCACAGACAAGAGAA AAAGGAGGGGGAACCGGAGAAAAAAAGAAGAAAGGCAAGA GA A G G G G G G A A G G A A G A A G G G A A A A A G G GAA A A CAAAAAG G C C A $A C C A A A G G A A A A A G A G G G G A G A A G G A A A A A A G G A C A C G B A A A$ A GAGGGGCCAAAGCAGGGGACGGCAAGCCCAAGAAAGCAAAAA GAGCAGAGGACGAGGGGGGGGAAAGAAGAAAAAGAGGGGGGG A G G G G G G G G G G A G T T A A A A G G G G A A A A A C A A A G A A A A G G A A G $G G A A G A A G G G G G G G A G A A A G G C G T T G A A A A A G G G A G G G A G A G$ GAATTACAACCAAAGGGGGGGAGAAAGAAGGGACACCAAGAG GAACCAGAGAACACCGGAAAAAACCAAAAAAAAAAAAGGAAG GAAGGCCAAAAAAAAAAAAGGAAGGAACCGGGGGGAAGAAAA $A C C A A C C A G C C A A A A A G C A G A G G G G A A G G A A G G A G G A G A A A C$ C G A A A A A $\mathcal{A} G G G G A G A G G A A A A G G C C A A A G G G G G G G A A G G G A G$ G G G G G A A A G G A G G C C A A G G CAAAAAAAAAAGGAA G G GAAAG GA
 AAAGGAAGGAAGGAAGGAAAAAAAAAAGGAAGGCAACACGGG A A G G A A A A G G A A G A GAGAGCCGAAGAGAAAGCAA GAGAAA GA ACAAAAAGAAGAGGAAAGAAAAAAGGGGGAAAAAAAGABAAG GAAGGCCGGGGCAACAGGGAAAGCCACGAACAAAAGGGGGGG GAACCAACCGGAGGGGGAAAACCGAAAAAAACCGGAAGGGGC $C G A G A G G A A G A G G A G C A G G T T A G G G A G A A G G A G G G G G G C G G G$
 G G G G G A A A A G G G C C C G G G G G G A A $\mathcal{A} G G G G G G G G A G G A A G G G G G$

 GAAGAAAGGAAGGCCGGAAGAGGAGGGGGGGAGGGAGCCGGA AAAAAGGAACCGGACGAAGGAGAGGCCGAAAAAAAGGAGCAA ACACCGGAAGGAGAAAAAACCAAAGAAAGAAGGGGGAAAAAA A A A G A GAAA A GAA A A A A A A G G G GAGCCGGCAGGGGGGCAACA A GAGAGGGGGGAAAAAGAAGCAAGGGGGGAGAAAAAAAGAAG GCAA $C$ A A A $\mathcal{A} A G G A A G G G G A A G G G G G G A A A A A A A A G G G A G A A A C$ CAAGGAAAAAGAAGGAAGGAAAGACAAACCAAACCGAAGAGA GCCAAAAAGGGGGGGAAAAAAGGCCGGGGGGGGGGGAAAAAA ACCAAGAGGCCGGCCGAAGCAAAACAACAGGAACAGGGAAGA GAAGGAATTAGAGCCCCCAACAGGAGGAAACGGAGAGCCGGG
 G G G A A G G G G G G GAAAAAAAGAGACCGGAGAAACAAAACAAGC CAGTTAAGGGAGGGGAAGGAAGGAAAAGGGGAAGGAG
CAGAGAGGAAGAAAGGGAGGGGAAGGGGAAAAAGAGAAGGG G G G G A GAGGACACAAAACAGGGGAGGGAGGAGGGGATAAAAA ACCGGGGAGAAACGGGGAACCAAAAGGAACCGGGGGAAACAB GAACAGGCCAAAGGGGGAAGGAAAGGGAAGGACAGACGAGGG GAACCGGGGGAAAGGGAGAAGGACCGGTAAGGAGGAAGAAAG AAAGGAAGGCAAGGAGAAGAAAGGGGGAAGAAAGAGGGAGGA AAAGGGGGGAAACGAAAGGTAAAAGAAGGAGAGGGACAAAAA G GAGGGAGAGAACACGAAAAAGGGGCAAAAGTAGAACACGAA A GAAAAGGGGGGAGACCGAAGAAAAAAAAGAGGAAGGCAABA CAAAGGGGGGAGAAGAACACAGAGAAAGGAAAGAGAAAAAAA

A G GCCGGAAGGAAAAGGGGGGGGGGAAGGGACCAAGAAAGAG G G G G A A A A GAGAAGGCAAAACGGAAGGCCGAACAAAGGAAAG
 G G GCCAAAGAAAAGAGGACAACCAGGGAAGGCAAAAAAAAAA A G G G G G G G A A A A A G G G G G G GAA A G G G G A A A A G G G G G G A A G G G GAAAACCAATTAACCCGTTACAGGGAGACGAGACCGGAAGAA GCAAAAAAAGAAGAAGGGGGGAGCCCCGGCAGGTTCCGGGAG AAGCCAAGAAACCGGGGAGGAGGAGCCAAAAGGAGCCGAAAG G G G G G A A G G A A G G A A G G G G G GCCGGAAAGAAAGACAAAAGAA GAGACACAAGGGAAAGGGGAACCGAGGCAAAGGGGAGAAGGG
 GACGGGGCCGGGGAGAAAAGGAGCAAGGGAGAAAGAGAAAAG G G G A A G G A G G G A A CAGGCCGGAGAACCACGGGAGGAAAAAAC A A G G GCC G GA A G G G G GACCAACCAGGGAAGAGACCAACAAA G G G G G GCAAGGGCAGGGGCCTTGGGGGGGGCAACGGGAAGAGA AAAGGAACCAACAGAAGCCGGAGAGAAAAAAGAGAAAAGAAC CAACCAAAAAAAAAGCAAAAAGAGGGAAAGGGAAGTAGGGGG GAAGGGGAAGGAAGGAAAGAGGGGAGGGGGGGGAAGGGAAAA AACGGAGAAAAAAGGGACCGGAAGAAAAAAAAACCAAGAAAG
 GACAAGGAAAGAAAGGATTAAAGAAAAGGAAAAGGAAAAGGG AAAAGAACCAAAAGGAAGGACACGAGAGAAGAAAGGGGGGAG AAGGAAAAAAAAAGGAAAACCAAAAAAAAGGGGAAAAAAAA G G G G G G A A A A A A G G G G G G G G A A A A A A A A A A A A C C G G A A A G G G G
 AAGACATAGAGAGGAACGAAGAGAAAGAAAAGAGGGGCCGGG A A G G G A A A A A G G G A A GAGGAGGGAAAAAGCACCCCAAGGCCC C C C G G A A A A A G A A G GCCAAGGCAGGCCGGGATAGGAGAAGAC C G G A G A G G GAA $A \operatorname{G} C A A G G G A G G A C C A A C C G G C C G G G G G G G G A$
 A A CAA $A \operatorname{GAAAAAGGAAAGCCAAGAAAGGAAGGAAGAAAAGGBA}$ G GAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G GAA A GAAAGCAGGCAAGAAAGAGGGGGAACAAGAAG GAAGGAAAAGGAAGAGGAACCGGCCAGGGAGAGACGBAGCAA A G G G G GACCGGGGAAAAGGAAGAGGGAAAGGAGGAGACAA GA G G G A A A A A G G A C C G GAGGGAAGGGGGGCCAAAACC GAGAGAA A A A GAACCCGGAAGGAGACACGGCAACCAACAAGGGGAGAGA A GGAACCAAAAAAGGAAGGGGAACCAGACAGGGGGCAAGAAG GAGGGGGGGGGAAGAAACCATAGGAGGAAAAAGAGAGAAAAG G G G A G G G A A G G A A A C A A G G G A A G G G G G A C A G C A G G G G G G G G G G G G G G G G G A A A G G G G G G A A A A A G GAAGCAAAAGGGAAA GAAA
 AGAAAGGCCAAGGGGAAGGAGGGAGAGGGAAAACCAGGAGGG G G G G A G G A C C C G GAGCAAGCAAAGGCCAAAAAAGGGGAGAAA GAGAAGGGAAGGAGACAGGCCCCGACCACGGGGGGAGAGCAA A G G G G G G A A A A A A G GCCGGGGAACCGGGGAAAAACAACAAGG $A G A G G C A G G G G G G A A G A G G A G A A A C G G A A G G G G A A A A A G G G A$ G G GAAACGGAAAAGAGAAGGGCAAAGGGAGAAGCACAGAAGA GAAGGGGGACCAAGGCCAAGGGAAACCAAAGAAGGAGAAAGA GAGAAAGGGGAAGAGACAAAAAGAAGGAAAAAAGAAGAAAGAG
 G G G G G GAGAAGCCGAAAAGAGGGAAGGAGAAAGAGGAAACAG A G G G A A A GAGGGAAACCAAAAGGAAAAAAAAAAAAAAAAGGA $A C C A A C C A A G G C C G G C C G G T T A G G G A G G G A G A A A A G G G G A G G$ G G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A A G A A A A A A A A A A A A G G A A G G G G A A G A A$ AAAGGGAGAAAGGAAGGAGAGCCCCACGAGGAAGGAAGAAAG GAAGGAAGGGGAAAAAAAAAAGGAGGGAAGAGGCAAAGGGGA A G G G G A G A C G G G G G G A G G G A A G G A A G G GA GACA A G A A A A G G A $C G G A G G G G G G G A C G G A A G A G G T T A A G G A A G G A A A A A A A A A C A$

G GAACAGAGGGGGAGGAGACCAAGGAGGGCACCAGAAAAGAA A A G GAAAAGAGGACCAAAAAGCCAAGAAAAACAAAAAGAGGA A GGAACCAAAAGGGGAGGAAACCAAAAAACCAAAAGAAAAAA A A A G G A A G GAA $A \operatorname{GA} A G \operatorname{A} A A A G G C A A G A G A G G G G G G G G G G G G A A$ C G GAAA A A G GAGGGGGGGAGAAGAAAAACAAGGGGGAAAGAA A G G A A A A A A C C A A A A A A G G A A A A A A GAAA G GAA G GAA G G G G A G G G G A A G A A GAGAA GAGAAACCAAAAAAAAACCAGAAGGGGG GAGACAAAAGGGGCCAAGAAACCGGAAGGAAGGAAGAAAAAA A G G G G A G C A G G G G A A A A A A $\mathcal{A} G A A A A A G G G A G A G A A G A C G G G G G$ G G GAAGGGGAACCGGCCGGAAAAGGGGGGAAAACCAAGGGGA A G GAAAAAACAGGAAAAGGGGAAGGTTGGGGAAAAAACACAA A G G A A A A G G G GCCGGCCAAAAAAAAAAAAGGAAGGGGAAGAA G G G A A G G G A C A A G A GAAA $A \operatorname{AGGAAAACCGGAAGGAGAGAAGGG}$ $G G G G A A A A G G G G G A A C A A A G G A G G G A A A A A A A A A G G A A A C C G$ G G G G G G G A A A G G GC C G G G G A A A A G G G GAAAAGCAGAC G GAAA GCCGAGGAAAGAAGGGAAAAAGGAAAACCGGACCAGAAAAGA GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGGGAAAAAAAAAGAACCCAGAGGGAAAAGGGACAGC C GAAAGGAAAGAAAAGGGAGAGGGAGAGGGGAGAAAACAGGG GAACCACAACAAGTAAAACGACCGAGGAGGGAAAGGCAAAAG AAGAACGAAGGCCAAAGGGGGAGAGGGAAGGAAGAGAAAGAA G G GAGCAGGAGGAAGAGAGCCGAAGGGCAAAGACCGGAAAAG G GAAAAGGGAAAACGCAACGGAAAGCCAAAACCAAGGGGGGG G G G G G A A C A GACC G G CAAAAAGGGGGAAAAAGAAA GAGAAAA GAGGGAACCAAGAGAAGACTTGGAAAACCCAGAAGATAAAAG A GAGAAAGAAAAAAAGGGAGGAGGAGAGGAGAAGAGAAAAGAC ACAAAAGGGGAAACCGGGCAAGAGAGGGCACAGGGAGAACAAA GAAGAGGGGGGGAGGTTAAGGAGACAGCAGGCCCCAAAAAAA A G G A A G A G GAA $A \operatorname{G} C A G A G G G G T T A C A C A A G A G G A C C C A A G A A$ AGGCCGGACAAAAGGGGGACCAACCGGAACCGGGGAAGAGAA C G G T A A A A GA G GA G G G A A A G G A A G G A A G G C A G G G G A A G G G A A AAGAAGGAAGGAAAGAGGGAAGGAAGGAGGAGGAAGGCCGBA $A C C A G A A G G C C G G A A G A G G A C G G G G T T A G C C G G A G G C G A A A G$ AACTAACAAGAGACAAGGGAAAAAGAGAGAAAAAAGAGAAGA ATTAAAAAGGGAAGGAAGGCGGGAAGGGAGGAAAAAAAAGGG A A GAAA A A $A$ A A A G G G G G GAC $\mathcal{A} G G G G G G C A G G A A G G G A A A A G G G$ GAGGGAAGAGGGGAAAAACAAGGAAGGAAGGAAAAGAAAAAA A G GAAAAGGAAGGCCGGGGCCCCGGGGAGAGGGGGGAAAAGA

 GAAGGGGAAGAGGGAGGAACCGAAGAGAAACAACCGAAAGAG A G G A A T T A A T T GAA A GA A A G G A A A A G GAA G G C C G A G G C A A T A AAAGAGGGGGGGGGGGGCCGGGGGGAAGAAGAAAGGGGGGGA AAAGACCAAGGGGGAGACCCAAGGGGGGGAAAAAAAGGAAGA CAACCAAAACAAGACAAGGCACCGGAGAAAAGGAACCGACAA

 A G G G GCCAGAGGGAGGGCAGAGGAAAGGGCAAGAAAAGAAAG A GAGGGGCCGAGGGAGGGGCCCCCCAAAAGAAAAAGG
G GCAGAGGGGCCCAAGAGCCGGGAGGAACCAACCCCCACCG GAAGGAAAAGAAAAAAACCGGGGGGAAAACAAAAGCAGAGAG G G G G G T T A A A A G G GAA A GAGAAGGAAGAGGGAAAAAAACAAA A G G A A A A $\mathcal{A} G G G G G A A G G G G G G G G A A G A A A G A G G A G A A A A G G A$ $A C C A G G G A A A A G G A G A A A A T T G G G G C C A G G A A G A C G A C C C C A$ GAACCACAAAAAAAACCAAAAGGGAAGGGGGGGAAGGAACAG A G G A A C A G A A G A A A G G G A A A G G G G G G GAA A C A A A A G T T G G G G G GAAAAAGAAGAGGGGGCGAGGCCAGGGAAAAAAGAGAAAAGB AAAGGAAGGCCAAAGAGGGGAAAAGCCGGAAAAGGAACCCCG G G G G G A A G A C C A G G G G G G G A A A A A A A A A A C CAA A G G G G G C C G

G G G GA GAA A GAAGCACAGAAGAAAGAAAGGAAGGGGGAGGGC
 GCCAAGGAAGGAACCAAAAAAAAAAGGAAAAAAAAAAGAAAA $A C C G G G G A A C C T T G G A A C C A A G G G G G G A A G G A A G G A A A A A A G$ G G G G GAACCAAGGAAGGTTAAAAGGAAAAAACCCCAAAAGGG G G G G G G G A A C C G G G G G G G G A A G G G G G G G G A A G G A A G G G G A A A A G G G G A A A A C C A A G G G G G G G G A A G G G G G G G GAAAA A GAAC A A AGGCCTTGGGGGGAAGGAAGGAAAAAAAAAAGGAAAAAACAA A G G C C A A A A A A G G G G A A G G A A G G G G G G A A G G A A A A G G G G A A G GAAGGAAAAGGGGAAAAAAAAGGCCGGAAGGGGGGAAAAAAG
 ATTAAGGAAAACCAAGGGGGGGGGGAAAAAAAAGGAACAAAA A G G A A A A G G G GCC G GAAAAAAAACCCCCCAAAAAAAAGAAAT TAACCTTGGGGAACCGGGGGGGGGGGGAAAAAAGGGAAAAAG
 A G GAA A GAA $A \operatorname{A} G \mathrm{G}$ GAAGGAAGGAAGGAAAAGGAAGGGGGAAAA A G G G G A A A A A A G G A A G G T T A A A A A A A A A G G G G G G G G A A G G G G G GAAGGGGAAGGGGGGCCAAGGAAGGGGAAGGAAAAGGCCGGG
 A G G A A C C A A A A A A G G G GCCAAAAGGCCCCAAGGGGGAAAGAA A G G G GAAGGGGAAGGGGCCGGGGAAGGGGGGAAGGGGAAAAT TAAAA A GAA $A \operatorname{A}$ GAAAAAAAAGGAAAAAAAAGGGGAATTCCGGG G G G A A A A A A A A A A C C C C G G A A A A A A A A A A C CACAAACA G GA G A G G A A G G A A A A A G A G G G A A G GACA A C C C GAGAAAAAAAAGGGGG G G G G G G GCCAA G GAACCGGGAAGGAAAAAACAAA AACGGGGG G G A A A C C A A GACC G G G G G G G GAA $A \operatorname{AGGGAAAGAGCGTAAACAG}$ G GAGGGGGAAAAAAAAAGGAACCAAGGAATTGGGGAAAAGAC CAAGGAAAAAAAAAACCAAAAGGAGGAGGAAGGAAAGCAAAA
 AGGAAAGAAGGAAAGGGAAGAAAAATAAAAAAAAAAAGGGGG C G GA $\operatorname{G} G \mathrm{G} A A C C G A A A A A A A G A G G G G A A A A A A A G G G G G A A A A A$ AAGCCGGGGGAAGAAAGAAGGAGGGGGGGAAGGAAAACCGGG GACTAAAAAAAGAAAAGAAAGGAAACAGGCAGGAAAAAAAAA
 A G G A A A A A A A A A CAAA A A A A GA GAGGAGGCCACGGGAA GCC G
 G G GAA A GAAAAGGCCCCGGGGGACCAACCCAAAACAGAACCT
 G G GCCGGGAGGAAAAGGGGGGAAAGACGGGGGGAAGAAAAAG
 AACGGAAAACCAGAAGGGGAAGGGGAAGGCCAAAGGAGAAAA A A A G A A A G A A T A G G G A G A A A G A C A GAAA A A A A GA G GACC G G G A GAAAAGGGACGGAAAGAGGGGGACCAGAAGAAAAGGGGAAG G G GAA A G G GACAGAAAGGAGAGGGGGGAAGGAAAAGAGAAAA $A C C A A G G A A A A G G G A G A A G C A A G G A A C G A G A G A G A A A A A A A G$ A G G A G A A A A CACCAACCGGCAGAGGGAGGAGGAAGAAAAGGG G G G G GAACCGGGAGGAAGAAGCCAGGGGACCAGAGAGGAACB A G G G G A G G A G G A G A G G G A A A G A A A A A G G GA GAAA A A A G G C C A AAC A GAGAAGGAGGGGGAAGAAAAGGAGGAAAAAAGGGAAAG G G G G G A A G G A A G G C C G G A A A A G G A A G G G G C C G G G G A A G G G G A $A G G C C G G G G G G G G A A A A A A G G A A C C A A G G A A G G A A G G G G C C G$ G G GAA A G G G G GCCAAAAAAAAAGGGGAAGGAAGGAAAAAAAAA $A C C A A A A C C G G A A G G G G A A A A A A G G C C G G A A A A A A A A G A A A A$ A G G G G G GAA A GAAAAGGGGGGCCAAGGAAAAGGAAGGGGAAG G G GAA $A \operatorname{GCC} G G A A A A A A G G G G G G A A G G G A C C G A A A G G G G G G A$ GAGACGGAAGGAAGAAAAGTTAGAGGACCGAGGAGAGAAGAA C C G G G G GACCCAAACAACCAAGGGGGACAGGGGGGAGGAAAA
 A A A G GAAGGAACCAGGAAGAAGGGAAAGGGAAACCCCAAGAA

G G G GCAGAAAAGGCCGAGAGGGAGAGAAGAAAAACGGACAAG $A C C G G G G G G G G C A A A C C A A A A G G G G A A G G A A A A A A A A G G C C G$ GAAAAAAAAAAGGAAAAGGAAAAAAGGAAGGAAGGGGGGCCB GAACCAAGGAAGGAAGGAAGGAAGGGGGGAACCGGCCGBAAG G G GAAA A GAAAGGAACCAGATGAGAGAGGGGAGAAAAGAAAA A G G A A G G G G G GAGGAACGAGGGAGGAAAAGGAAAAAGAGGCA G GACCAAAAAAGGAGAGAGAAAGGAGGAGGAAAAGAGAAAAA AAGACAAGGCCGGGAGAGGAAGGACCCGGAGGGGGGGAAAAG G G G A A G G A A C C A A A A A GAAA A GAA G C CA G G G G G CA GAAC G G C AAAAGGGCCACAGAGGAGAGAGACGGGGGGAAGAGGAAAGGA GAGAGGAAAAGGGGAGGAAAAGGAGGGAAAAGGGGCAAAAAG GAAGGAAGGAAGGAAGGAAAAAAGGAAGGAAAAGGGAAAGAA A A A A A CCGGAAAAAAGGAAAAAAGGGGGGGGAAGGAAGGCCG GAATTCCGGGGCCGGGGAAAAGGAAGGAATTAAGGGAAAGGG GAAGGGGGGAAGGGGGGGGCCGGGAAAAAAACCGGAAAAGGA A G GAA A G G G G G A A A A A A A A G G G GAAAA A GCAAA G GAA G GAA G GAAAAGGAAAAAACCGGAAGGAAAAGGAAGGGGGGAAAAAAA $A G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G G A$ $A G G G G A A G G G G G G A A G G A A G G A A G G G G G G A A G G A A G A A A A G A$ A A A A G A A $\mathcal{A} G G G G G G A C C C C G G A G G A A A A G G A A G A C A C G G G G A$ AAGGAGAGGGAGGCCAAAAAGAAGGAAAGGAAAGAAAGAAGG GACCCAAGGCCGGGAAGAAGGGGAGGAAAGGAAAAAAGGCCA

 A G G G A A A A G G A G G C C G G G A CAA A A GAAA A A G GA GA G G G G C A G GACGGGGAAAGGACCCCGAAAAGGGAGGAGGAAGAACGEACA GACAGATGAAAGAAAACGGGAAAGAAAGGAAGGGGCCTTGGG GAGGGGAGGGGAGGGAAGGCCAAAGCCAGGAAAAATTAAAAA A G G A A G G A A A GAGGAAAAAGAAAAGGAAAAAAAGGAACCCCC CAAAACCGAAAAAGGAAAAGGAAAAAAAAGGAACCGBAGAAG A A GAGAACAAAAAAAAAGAAGGGACCCCAGGCCAGGGGGGAAA A G GAGAAAGGGAAACAGAACCAAGGGAAAAAAAAAAAAACC G GCCGAGAGGGGAGAAGGGGAAGGGGGGGGCCAGAAGGAAGGG A A A G G GA GAA $A \operatorname{AGAAACAGAAGAAGGAAAAGAGAGGAAGAAAA}$ GC G A A A G C C G A A G G G G G G G C C G G A A G G G G G G G G C C A A C C G G A AAAGGGGGGCCAAAAAAAAGGAAGGAAAAAGAACAAAGGGGG G G G T T GAGGGGCCAAAAGAAACCGGGGGAAAGGGGAGGGAGA GAACCAGGGCCAAAAAAAAGGGGGGGGGAGAGAGGAAGGGGA A G G A G A G A A G G A G G G G G A C G G G A G G A A A A C C A A G A T T G G C C A ACACAAACCGAGGGAAGGAAAGGTTAAAAAGAAGAAGGGGGA GACGAGGGGGGGGGGACAAGGAACCCCGAGAAGAGAAAAGCG GGGAGCCCAGGGAAGGGAAAAACGGAAAAAAAAAAGGGAGAA CAGGGGGGGGAAGGAGGGGGGAAGGGGAAGGGGGACACAGAA
 $A G G A A A A G G A A A A G G G G G G G G A A G G A G A A G G G G A A G G G G C C A$
 G G G A A C C A A A A A A A A A G G GCCCCGGAAAAGGAAGGAGAAAA G G G G G G G G G GCCAAGGAGCAAATTAGGAGGAAGAGGAAAAGGC A A A A A A A G GAAGGAGAGAACCAAAAAAGAGGCCAAGG
$C \subset G A A G A G A A A A C A C C A G A G G G G G G G A A A A G G A A G A A A A A G$ G G GAGGACCGGAAAGAGAAGGGGAAGGAAGGAACCGGAAGGG A G GAA A G A GAAGGGAGATTAAAAAGAGGGGGGAAA GAAAA GA ACAGAAAGGGGGAGGATACCCAAGGAAGACCAAGGGAAGAAA AGGGGAAAACCAAACAAAGGAAAAAAAGAGGAGAAGGAAAAG GAGCCAGAATTAAGGGGGAGGAGAAGGAGGGGGGAAAGAAGG GAGAGGGAAGCAAACAACCGGAAGGGGAAAGAAAGGAAGGAA G GAGAGGGGGGGGGGACAAAAGGACAAAAAGAGAGAGAAAAA
 $C G G T A A A G G G A A A A A A A A A A G A G G A A G G A A A C C A G A A A A A A C$

AAACCCAACAAGGAAAAGGAAGGAACCAAGGAAGGAAGGGGA A G G A A A A A GAACCCAGGAGCCGGTTGGAAGGGGCCAAGAGBA A A A A A A A GAA $A \operatorname{A} A A \operatorname{A} A A G A A G G G G G G G C C G G A G G A A G G A C A A$ CAAAGAAGGGGAAAAAAAAAAAAGGAAAAGGGAAAAGAAAAA G GAAAGGGAAAAAGACCCCAGAAAAAAGGAAAAAAGGGAAAC CAGCCGAAAGGGGAGAAAGGGAAGGAAGGGAGAGGAAAAGGG GAAAAAAGGAACCAGAAGGAAAAAGAGAGAACAGGAGAAAAG AGGGGAGAGCAGGGGAGTAAACAGGCCGGAACGAGATAGGGA
 G G GAGAGAGGGAAACAGGACAGGAAGGGGAAAAAAGAAAGGG G G G GAAAGAGACCCAAAAAGAAAAAAGAGGGAGAGGGGAAGA G GCGGGGGGGGCAGGGACACATAAAGGAGGGAGAAAAGAAAA A GGCAAAAAAAGAGAGGAACCGAAAGGAAGGGGTTCAGAGGG A A A A A G GAA A G A A A A A A G GAA $A \operatorname{AGGGGGAAAAAAAAGGGACAC}$ A GA A A A G G A A GAGAGGAGGGGAAAAGGGGGGAGGAGAACAAA GACGGGGGAGGGGGGAACCCCCCGGGGGGGACCAAAAGAAAA $A G A C C G A G G G A G A A G A A G G A T A A G G G G A A C C A A T A G G A G G G G$ GAGGGGACAAGGGAGGGAAGGAGGGAGAAAAAAAAAGGGGGGG G G G A G A A G G G G G G G G G GAGCCAAAACC G G GAAAA A A G GA G G G C
 AAAAAGACAGGGAGAGGAAAAAAAAGGCAGGAGAAGGAGAGG GAAAGGGGAAGGAAGAAAAGGGGGAGGCAAGAAAAAAAGGGG GAAGGGGGGAAGGCCAAGGAGCAAAAAAAAAGGGGGGAAGGG G G G A A G G A A G G G G A G A G G A A A C C A C GAGGAGAAGGGGCAC CA A A A A A A A G GAAAAGGAAAAAAAAGGGGCAAGGAACAGAGAAA CACAACCCCCCAAGGAAGAGGAAGGAAGAAAAAAGGGAAGGG GAGACGAAAAAAAGGGGGGCCCCGGGGAAAAAAGGGGGAAAA A A A G GCCGGGGAAAAAAAAGGGGGGGGAAGGAAGGAAAAAAA A G G G G A A A A C C G G G G G G A A G G G G G G A A G G G G G G G G A A A A A A G G G G G G G A A A A G G G G G GAAGGCCAACCAAGGAAAAAAGAAAA $A G G G G G G G G G G G G A A G G A A A A G G A A A A A A A A G G G G G G G A A A A$ A G G A A A A G G G G G GA A G GAA $A \operatorname{AGGGAAAAAGAAAAAAAGGGGGGG}$ G G G A A G G G G G G G G A A G G A A G G G G C C A A A A G GAAAAAA A $A \operatorname{A} G G G$ GAACCGGAAAAAACCGGGGAAGGAAGGGGGGGCGACAAAGAA GAAGGGGAAAAGAGGGGCCGAAGAGAGGGAAAACGBAACAAC CCAAAGAAAACGAGAGGAGAGCCACGGCAAGGAGGACAAGGA GAGGAAAGGAGGAGGGAAAGGGGAAAAAAGGAAGGAAGGGGA $G C C A A G G G G A A A G A G A G A A G G A A A G A G G G G G A A G A A A C C G G G$ GAAAAGGAAAGAGAAGGCAAACCGGGGCAGAAAAAGAAAAAA A G GAAAACCGGGAGGAGAGCCAAAGGGAGAGAGAGGGGAGAA A G GAGGGCAATAGACACGGACAAAAGGGGGGAAGGAGGGGGA
 AAAAGGGAGGGGAAGAAAAAAGGGGGGACCAGAAGGGAAAAG A GAG $A \operatorname{AA} A G C C A A G G G G A A G G G G A A G G G A G G G G A G G A G G G A A$ A GAGGCAACGAGGGGGGGGGAGAAGGGACACGAAAAAGXTTG G G G GACCAAGGAGAAAGCAAAAGGAGGGAGGCACCAGGAAAA G G GCCAAGGGGAAGAGAAGAAACGAGGGGAAAAAGATGATXA A G G A G G G A A G G A A G G G G G G G G G G A A G G G G T A G A G A A G A A G $\mathcal{A} A$ $A C C G G G G A A A C G G G G A A G G A G A G G G G G A G A A G G A A G A G A G G G$ G G A G G G A G G A A G G A G G A A G G G G G A A A A A A C C GAG G T TAAA A A $A C \subset A G G A G G A G A A A A A A A A C C A A G G G A A A G A G G G G A G A G A A G$ GAACCAACCCCAAGAAGGGGGCCCCACGAAGGGAACCAAGCB A G G G G G A C C G G A A A A A A A A G GC C A C G G A A CA GA G GAA G G C C C CAAAAAAAAGGACAGAGAAAAGAAGAGAGGAGAACAGAGAAC A A GAGAAGGAGGACCGGCCAAAGCCGAAAGGGGAAAGAAAAA G G G A C G A A G G G G G G A GAGGCAAAAGAGAAGGGA GA GACAGGG GAAAGGGGGAGGGCCCCAAACGAAAAAGAAAAAAAACGGGGG
 $G A G G G A A G G C C A A G G G A A A G G G G G G A G C C C C A A G G C C G A A A A$

AGGCCGGGAAAAAGGGAAACAGAGGAAGAAAAGAGGAGGCCA AAAGGGGCCAAACACCAGAGAAAAAAACCGGAAGACCAAGBC C G G G G A A G G A T A G G G A G G G A G G A G G A A A G G A A G G A G A C C G A G AAAAACCCCCCGAAGGGGGGGGGCCAAGACCAAGGAAAAGGG G G GAAAAGGGGAAGGGGGGAAAAAAAAAACCAAGAACAACAG A GAGGGGGGAGAGAAAGGACAACGAGGCAGACCAAGAAAGGG GAACCCCAGAAAAAAAAAAACAAAAGAAAGCGGAAGAAGAGG AAGAGAACACCAGAGAGAGAGAGCCAAGGAAAAAAAGAGACA A G G G G A A A A G A A G A G A G G A G G A G G G G G A C G G C A G G G G G G G G G GAAGGGGAAGGGGGGAAAAGGGAGGCCCCAGGAGGAGAAGGA G G GCAGGCGAAAACCAGAAAGGAAAGGAACCAAGAAAAAAAA G GAGGGAAAAAAGGGAAAGCCGAAAGGGAGAAAACGAAAAAG $G C A T T A A G A A G C C G G G G T A A A G A C A G G G A A G G G A A A A G A C A G$ A A GAAAACCGAGACCAGAGGAAAACGAAAGGGAGGAAAAGGG A A G G G A A A A G G G G G A A A G G G G A A A A A A A A A A G G T T G G G G G G A A G G G G G GAA $A \operatorname{A} A A \operatorname{A} G A A G G A A G G A A A A G G G G A A A A G G A A G G C$ CAAAACCGGGGAAAAAAAACCAAAAGGAACAAACCCCAAAAC CAACCCCGGGGGGAACCGGAAAAGGAAGGAAGGAAGAAAGAA AGGCCAAAAAAGGGGGGGGAGGGGAAGCACCAACAGGGAAAG A A G G G G A C C A A G G G A A G G G G G A A G GAACC GA A GACTTGAAAA AACGGAAAGGGGGGGAGGAAAGGAAGGGAAAGGCCAGAGAGA AAAAAGGAAGGAAAAAGACGGAGAGGGAGGAGAACACAAGAA ACCGGCAAAAAAAGGGGAAAAGACCCAAAGGGGGAAGAAACB GAAAGAGAAGGCCAGGAGGAAAAGGCCGAGAGGCCAAAGGBA $G G A G G A A G G G G G G G A A G G G A C G G A A G A G G C A G A G A A A A G A A G$ A A G A A G G G G A A G G G G G G G G A G A G G G G G G A G G G A G G A A A A G $G A$ G GAACAAGGAGGGGAAGAAAGCAGAAAAAGGAAGGGGGAAAA A G GAGCCAAAACCGACAGGAAAGAGAAGAGAGGGGGGGAGAA A A GAAACGAAGGGACGGACCCAAAAAGACGGACGAGAAAGGG GAAGGAGAAAGGAAGACGAGACCGGGGAGGGCCGATTGGGAC CAGGGAGAAACAGGAAGAGAAGGCCAGCXAACCCCBGAGCCC $C \subset C G G A C A A A A A G G C G G G A G G G G A G G A A A C A A G A G A A A G G G G$
 $A G A G G G G C A G A A A G G G G G G G G A A G G G G G G G G A A G A A G G A G G G$ G G G A A C C G G G GCC C A A C G A G G G G A A A A A A G G G G G G G G A A G G G GAAGGAAGGAAGGCCAAGGAGAGAGGGAGCAAAGGGAAAAAA AAGAACCAAGGGGGGGGTAGGGGAAGCGGAAGGAGGAAGCAA G G GAA A A GAGGAAAAAAGAAGAAAAGGGGAGTTGGGGAAAAAA AAAGGCCAAAAAACCGAAAGGAAGAAAAAGGACAGGAAAAAA C GAGACAAAAAGGGGAAGAGGCAAAAGAAACGGAAGGGAC G T $T G G G G A A G G C A G G G A A A A A G G G G G G A A C C A A G G G A G G G A G G G$ GAGGGGGGGAACCTAAATTGAAAAAGGCCAGGGAGGACAAGA ACCAAAAAGTTAAAAAGAAGGAAAAAAGGAAAACCGGGGGGG G G G G G G G A A A A A A G GAAAA A GAGAAGGAAGGAGGGGGAAAAA $A G G G G C C A A A A G G G A A A G G G G A G A A A G T T G G C G G G G A A G G G G$ GAGGAACCCAGACAGGAAGGAAGGAGAGGGGAGACGGGAAAA G GAGAGGACCAAGCCGAGAAAGGAGAGGAACGGGAGACAAAG AAAGGAAGGAAGAAGGGGAAAAAGGGGGGGAAAGGGGAGAAG A A GAAA A $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A \mathrm{~A} G \mathrm{G} A C G G A G G G G G A A G G A A G G A A$
G G G A G G A C A G A A G G G A G G G G G G G G G G A G A G A A C A G GAAAA A GAAAGACGGAGGGAGCCGGGGCAAGAGGGCCGGAAAAGAAGA GAAAACAGATTGGAAAAAAGGGGGGAGGGGGCCAAAAGAAGA
 GAAGGAAGGGGAAAACCCAGAAAGAAAGGAGGGGGAAGAAAA A A G G G G G G G A C A A A A G G G G G GAGGAAAGGAAAGGGGGGAAAC A G GCCCAGGAAAGACGGCAGAACGGGAAGAGGAGGAAAGGAG GAGGGGGACAAAACCGAAAAACCAAAAAAAAACGGGAAAAAA
 $G C C A A C C A A G G A G G A A A A A G G G A G G A A C G G G G A A G G A C C G G A$

A G GAAGAGGAACCAAACAAAAAAGAGAGGGGAAGAAAAGGGA AAAGGAAAACCGGAACCAAGGAAGGGGCCGAAAGGAAAAAAG GAAGAAAGGAAAAAGGGGAAGAGGGGGGAGAAGAAGAAAAAA GAGTAGGGGAAGGAAGGGGGAAAAAGGGAGGCAAGGGGGAGG G GAGGAAAAGGGAGGGAAGGGGGAAAAGGAAAAAAAAAAGAG G G G A A G G G A G G A A G G A G G G G G G A G A G G G G G $C A A A G G G G G G G G$ GAGGGAACAAAGGGGGAGGGGGGAAGGCCGGCAGGGGAAAGA GAGCAGGAGAACAGGATAAGGCAAGGAAAAAGGAGGAGAGAA A G G G G A A A A C C A G A A G G A A G G A G A A G GA A A G G G G G G G G G C C A GAGGGGGAGGGGGAGGGAAAGGGAAAAAAAACCAAAAAAGGG G G G TAAAGGGGAAAGAGCCAGGAGAGGGAGAGAAAGAAGGGA A GAGGACAAGGGGGGGGGAGAGAAGAACCAAGGGAACAAGBC CACGGAAGGAGAGCAGGAAAAAGAGAGGGGGGGAGAAAAGAA A A G G GACGGAGGAGGGAGGTAAAGGGAAGAACCGGGAAAAAG G G G G G G G A A G G A A A A A A A A G G G GAGGGGGAAAGACAAAA GAA A G GAA A A GCGGCCAAAAGGAAGGAAAGCAAAGGAAAGAAAAG
 A GAGAAGACCCGGAAGGTTAACCAGCAAGGGGGAAAAAGACAA AGGCCGGAAGAAGAGACCAGGAAGGGGAAAAAAGAAAAGGGG G G G G G A G C C A A G G G G G G G G G A A G G G G G G G C C G G G G A A G G G A A GAGTAGAAAGGGGGGGAAGGGACAAGAAAAAGAGGACAAACA TCCAGGAACACCCAGAGGGCAAGAAGGGGAAGAGGAGAGCCC CAAGGGAGGGAAGAAAAAGAAAAGAAAGAACAAGGAAAATAA $G C A A C A G A A G G G G A G A G G A A G A A A A A A G G A A A G A A G G G A A A T$ A G G G G A A A A G G A A GAAAAA A C C G C C G GAAA A A CAA G G CA A G G AAAACGGAAGAAAGGGGGGAAGGAAGGAAGGGGGAGACAGGG AAAGAGGGACCCCGGGCAGATGGAGAAAAGAACAGGAAACCG A GAGGAAGAAACCGGGGTAAGGAAGGGAAGAAAAAAAAGGGG GAAAAGGAACCGACCGGACAAAGGGAGGAGGGGAAGAAAGBC C GAGGAAAGACTTCCAGCCAAAGAAAAGGAAGGBAGAAAAGG G G G C A G A A GCCAAAGAAAACCAGGGGGGGCAAAAAGAAGAAG GCCGGGAAAAAAGCCGAGAAGGGAGGAAAAACCGAAAAAAGC CAAAGAAGACCAACAAGGGAAAACCCCAAAGAGAGGAGAAGA G G G G GCC G GAA A G G GAAAA A G A A A G G G GAAAAACCAAGAAAAAC A A A G GAGAAAAAGAGAACAGGGGGGCCGAGGAAGGAAGGCCG GCCGGGGGGCCAGAAAGAAAAGAAAGGAAAACCCCAAGGCCA A A A A A A A GAGAGGAAAAAAAGGACCGGAAAAGAAAGGAGAAC CAGGGGGGGAACCGCAAGGAACAAAGAGAAAAAAGAAGGGGG G GAGGGGAAAAGGCCAAGGGGAAACAGCXAAAACAGGGAGAA
 AAGACAAAAAAGGAAGGGGGGAGGGACGGGGAAAAGGACGAA AAGCCGAGAAAAAAGAAAAAAAAAAAGAAAAGGAAAAAAGAA $A C C A A T T G G A A C C A A A A G G G G G A A A G G G G G A G G C C A G A G G G G$ G G GAAGAAAAAAACCGGAGAAAAGGGAAAAGAAAGGAACAAA C GAAAAAGGAAGGGGGGAAGGGAGAGGAACCAAGGGGCAAAA A A A A A A GAGGGGGAGACAACCGGCCCCGGGGGGAAAAGAGAA G GAAGGGGGAAAGAGAGGGAAGAAACCAAAGAAGGAAGACCA $C G A G A G A G A A A G G G G A A G A A C G G G A G A A A G G A A A G G A C C C C G$ A A A A A A A G GCAGGGGGAGAAACCAAAGGGAAGAGGACAAGAA AAACGCCAGCCCCCCGGCCAACCGGGGGGGGAAACACAAGAA AACGAGAGGAAACGGGGAAAAAAAAAGAGGGGGAAGGCAAAA A A A C C A A A A A A A A A A A A A A A A GAGAGGGGCCAGGGCCCCCAA $A G G G G A A A A G G G G A G A G G A A A G G G G A A A G T T C C G G G G C C C B A$ A G G G GA G G GAGAAAAAAGGAGAAAAGGAAAAGGAAGGGGAA G GAAAAGGGGGAGGGGCAAAAGGGCATAAAAAAAAGGGGGGGGG G G G G A A A A A G G A A C C GAGGAAGGGGGGCCAAAACCGAAAAAG GAAGAAAGAGAGACAGAAAAGAACCCCAAGGAAAAAGGAAAA A A G A A A G G A G G GAAAAAAGGGGGGCCCCCCGGCCAGCCAGGAG G GAGGGGAAGAGAGAAAGGAGAGAAAGAAGGAGAGAAGAGAG

A A G G G A A G G G GCACCCAAGAAGACCAGGAGGGAAGGACAGGG GAGGGGGACTTAGGAGGCAGGAAAAGACAAAACAGGGAAAAG A A A A A A G G G GAGGAAGAGGAAGAAAGGCCGAGGGACAAAGAA CAAGGGGCCAAGGAGGGAAAACCAGCCGGGGGGAAAAAAAAC $C C C G G G G G G A A A A A G A G A A G G G A G A C G A C A A G G A G C C A G C A G$ G G GCCAACCGGAAAAGGGGAAAAAACCAAAAAACCAAAAAAG GAA A G A A A A A A G G G G G G G G A A A A G GAAGGGGCCAAAAAAAAG GAAGGAAAAGGCAAAGGAAGGAAAAAAAAGGGGGGCCGAAAA GAAGGGAAAAAGGGGGGAACCGGGGAAGGGGCAAAAAGAAAA GAGCCGAGAAGCCAGAGGAAAGGAGAAGAAGAAAACCAAGGG GAACCGGGGGGAAAAGGAAGGGGAAAAAACACAAGAACAAGAA A A A A A A A G GCCAAAACCGGAAAAGGCCGGAAAAACGAAGGAA A C C A G A C A G G A A G G A G G G G G G G G A A G A G G G G G G C C G A A G G G C C G A A A C C A A G A GAACCAAGAGGAAGAAGGAAGGCCCCGAGAA G G G GAGGAAGGGGAAGGGACCAACAAGATAAGGACGGGAGGC CAAGAAAGGAAAAAGCAGGGGGGAAAAAAGGGGAAGGAACAC GAACCGGAACCGGTTTTAGATAAAAAAAGTAACCAAAGAAAA AAGCCGAAAAGAAAAGGCCGAAAGAGGGGCCCAAAGGAAGGG G G GAGCAAGAACAGGGGGGAAGGAGAGAACCCGAGAGAAAAA GAAGAAAACCCAAAGGAGGAAGGGACCAAAAAGAAACGGGGG AAAGGGAAGAGGAGGAAGAAAAAGAAAAAAAGGGGGGAAGGG G G G GAAAAAGGGGAAAACCCCGGGAGAACGGACACGGAAGAA A A G G GCCAGGGGGAAGGAACCCCGGGGGGCCGGAAAACAAAA A A A A G A A A G G G G G G A A G C A A G G A G G C A G G G G A A A A C C G G G G G $G C C A A C C G A A A A C A G A A A A G G A A G G G G A G C C G G A A A G C A A A G$ G G GAAAAAAGGGAGAGACAAAGGAAAAGAAGCCAAGAAAGGG GAGGAATAGGGAAGGAGAAGAGGGGAGCCGGCCAAAAGGGGG A A A A A A A A ATTGGCCAGACAGAAGAGAAAAGAGAAA GAGCCG GAAAAGGGAAGCAAAAACCGGAAGGAAGAGGGGGGAGGAAGG GAGGGAAAGGGGAGGAGGAGGGAGAGGAAGAGGAGGGGAAAA A A G G A G C A A A C A A G G A A G G A A A G G G A A G G G A G G A G A G G A G G A GATAAGGAAGGAAGGAAAAGGAGAAAACAGGGGAAGCGGAGA GAAAAAAACCCGGCCGGGGAAGAGGGGAGGGAACCGGAGGAG G G A A A G G G G A G G G G A G G A G A G G G G G A G G G A A G G G A A C C G A A G G G GCCCCAGGGGAGAACGGCCGAAAAGACGGAAGGAAGGGGG G G A A A A G G A G A G G G G G G G G A A C C G G G G A A G A A G G G A A C A G G G G G GA $\operatorname{l}$ A A A A GAA $A \operatorname{GAAAAAAAAAAAAGGGGAGAAGAAAGAGGA}$ G G GAGCCAAAAGGGGAAAAGAAAGGGGGACCGGGAAGCACA G GAGAAAAAAAAACAGAAGGGGAGAGACGAAAACGGAAAAGAA
 C T TAGGAGAGGAAAAGGAAGGGGAAAAGGAAAAGGAACAAAG G G GAA A GCCCCGGCCAAGGCCGGGGGGCCGGAAGGGGCCGBA AAAGGAAAAAAGGGGAACCGGGGAAGGAGGGAAGGAAGAAAG G GAGAACAGGACCAGAAGGAAAACACAAGAGGGCAAGAGGAA A G GAGCCAAAAAAGACAAAAGAAAGGAGGAAAAGGAAGAAGA A G A A A G A A A A A A A G GAA $A \operatorname{GAAAGGGGAGCCAGAGAAGACAGAA}$ G G G G G A C A A G G G G G GACAGGACCGAAGGGGGAA G GAA G G G G G $\mathcal{A} A$ A G G G A A A A A G G G G A A A A G G G G G G A G G G A A A G G G A GAAAAAA A A A G GAGAGAAAAGAGGGGGCCAAGGAACCCCACGAAG
G GACAGGGAAAAGGAAAAAAAAAAGGCCGGGGAAGGAAAAC CAAAACCGGCCGGAAAAGGAAAAGGAAAAAACCGGAACCGGG G G G A A G G C C A A A A A A G G G G G G G G A A A A C C G GAA A GAA G GAA A A G GAAAACCGGGGAAAGACAAAAGAAGAAACGGGAAAGCCCT TGCAAAAAAGAGGGGGGCCAAAAAGAAGACGGGCAGACGACC C G GAA $A \operatorname{GA} A A A C C G A A G A A A G G A A G C C G G A A A A G G A C A G A A A$ A G A A A G A G A A A A G G G G G A C T A A G G G G G G A A A G G G G G G A A A $G$ G G G G G G GAAACAAGGACCCCCCGGGAAGACGGGAAAAAAGGGA GAAAA $A$ A A $A \operatorname{Ag} G \mathrm{G}$ GTAAAGGAAACGAAAAAGACAAGGGGAAAAG GACAAAAAAATAGCCAGCCAGAAGGAAAAAAGGGGGGGAAAA

A G G G G G G A C A G G G G G G G A A G G C A A GAAAAAAGGAAGGGACCA A A A A A G GAGGGAAGGCAAAGGAAGAGAGGAGAGAGAACAAGB G GGAAACCCAACCAAAAAAGAAGCCAAGGGGGGCCAGAAAAA G G GAAAAGGAACCGGGGAGAAAAGGGGAAGGGGAACAAGAAA AAGAAAAAATTACAGAGGGAAAGGAAGGAAGGAGGAGCCGAA G GACAAGGGGGAAAGAAGCCCGAGACAGAGGGGAACAAAAAG G G GCCAAAAAAAGAAGGAAGGAGGGAAAAAAAACC GAAAAAA GAAGGGAAAAAGGGGAAGGACGAGGAGGGAACAGGAAAGAAC C G G G G G G A G G G C A G A G A G G A G G A A A A G C C GAA $A$ G A A A G G A C C CAAGACAGAGGGAGGACAAGGACGGAGAAAAAGAAGGGCAGC C G GAACCCCAACAAGGGAGAAGAGGGGAAGGTTGGAAGAAAG G G G G G A A A A A A A A G G G A A G A A C C G G G G G G G G G G A G G A A A A A C C A A A A G G G A G G A A G G A A A A $\mathcal{A} G G G G G G A A A G G G G A A G A A A A A A$ G C A G G G G G G C A G G G G G G A A G G G G A G C A G G A A G G G A A G A G G G G GGGCCGAGGGGAAAACAAAGGAAGAAAAAGGGGGGAGAAACG AA GACAGCAGGGAGAAGGAAAGGAAAGGAGAACACGAAAGAG A G A A G A G G A G G A A A A A A G G G G G G G G GACCACAC GAAGCAA GA A A GAAAGAAAACCCAAGAAGGCAAGAAAAAAAAGAAGGAAGG G G G G GAACCAGCAGGAGGAAACCGGAAAAGGGGCCGGCCCAA A G GAA A C G G G A A G G GAAAAAA A GAGAACCGAAAGGGGAAAAC CAAACAGCCAGGGGGGGAAAAGGCCGAAAAAGGACGAGAAAA C C CA $A \operatorname{GGA} C A A G G G G G G A G A G C C G G G G G G A A A A G G A G A A A A G$ GAA A G G G $\operatorname{A} A A G G A A A A A A G G G G G G A G G G G G A A G A G A C C G T T X A$ A A G G G A A A A A A G G G GCCGGGGCCAGGGGGCAAGCAA GAAAAA A G G G A A GAC $\mathcal{A} G G A G G A A G G G G A A G A C A C C G G A A A A G G C A A A G$ GCCGGACGGGAAAAGAGGGAGAGGGAAGGAAAGGGGGACCCC CAGGGAAAAGGGGCCAAAGAACCGCGAAGAAGGAAAGGGGGC $A C C G G A A G G A G G G G A G G G G A G C A A G A G G A A A A G C C G B A G A G G$ GCCGGGGAAGGAGGGGGCCAAAAGAGGAGACAGAGAGAAAGA A GAGAAAGGAAGGGGGAAGGGAAGGAGAAGGGGAAAAAAAAA
 G GAACGACCACGAGGAAGGAGAAGGAAGGGGGGGGAAGGGGG GAGAAGGCCAAAAGGGATAAGAGCACACCAGAGAGAGCAAAG GAAGAGAGGAAGGAAGGAAAAAGAAGGGAGGAGGGCCAAGGA A G G A A G G C A A A G G A G G G A A G G C C G G G G A G G G G G A G G G A G G G G A A A G G G G A A A A C A G G G G A A G G A G A A A A G A A A G G G G C A G A G G G AAAAGGAGGGAGCGGAGAAAGGAGGGGGAAGAAAGGAGAAGC CACGGAGGGAGAGACGACCAGAAAGGAGGTTAGGAGGGGGGA A G G G G A A A A C C G G A GACAAAAGGAAAAGGAAAAA GAGBACAA AAAGAAGACGGAGAGACGGAAAAGGAACAGGAAAAAAAAAAG $G C C G G G G A A A A G G G G G G A G A A A A A A C C G G G G G G A G G A G A G G G$ A G G G G A G G A A A A C G A C C G G A GCC G G G G G A A TAA A A A C G A A G A AAAGGCCAGCCGAAGAAAACCGGGGAGGAGGGAAAGGGAAAG GCCGAAACCAAAGGGGGGAAAAAAAAGGAAAAAGAGGCCCCC C G A A C A A A A A A G G A A A A GAGGGGGGCCACCCAAAGAAGAGAG G GAGCGGAAAACAGAGGGGAGCCAAGGAAAGACAGAAACGGG G G G A A G G G G G G A G G GC C G G A A A G GAAAAAAAAC C G GA G G G C C G
 G GCAAAAACGAGGAAAAAAACGGGGGGAACCGACAAGAAGGA G G G G A G G A A G G A A G G C C G A A A A GAGGGAAAAAA A GCC GA G G G G G G A A GA G A G G G G G A G G GAAGACTAGGAGCCAAGGAGAGCAG GAAAACAGGCACAAAAAAACCGGCCAGGGGGGAGAAAAGAGG
 A G G G GAGGGGGGAACCAAAGGCAGGAAGGGAGGAAAAGAAAA AAAAAGAGAGAAAGGAAGAAGCAAGAAAGAGGAGAGGGAAAG GAAAAAAGGGGGGAAAAAAAAAAGGGGAAAAGGAAAAGGGGG G G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A G G G GAAAA A G G G G G G G A A A A A A G G G G G G G G G GC C C C C C A A G G G G G G G G A A C $C$ A AAAGGGGAAAAAAAAAAGGAAAAAAAAAAAAAAGGAAAAGGA

AAAGGAAGGAAGGAAAAGGAAAACCAAAAAAAAGGAAGGGGC C A A A A A A A A G G A A A A A A G G G G G G A A A A G GAAAAAA A GAA G G A A $G \operatorname{GAA} A A A A A G G G G G G G G A A A A A A G G G G G G G G A A A A A A C A A A A$ AAA A GAAGGGGCCGGGGAAGGGGAAAAGGGGAACCGGAACCG G G GAAAAGGAAGGGGAAGGGGAAAAAACCAAAAAA GAGGGGG GAGGGCCAGGAGAAGGGAAAAAGGAAGAGAAGGAGCCCCGGG A A A A G A A G GCCAAAGGAGGAAGGGGAAAAGGGGCCAAGACCG GAGGAGGGGGGGGCCGGGAGGAGAAAAAAAAAGGGGAAACAA A GAGAACAGGGCCGGCCGGCCAAAAGGAAAAGAAAAAGEGGA A A A A A A A A A A A G GAACCAGGGACAGGGAAAAAACCGGAAGGG
 GAAACGGAGAAAGGAGAGAGGACGAGGAAGGAAGGGGAGAAG $G G A G G A A A A A A G G A G A A A A A G A G G G A A A G C C A A G G G A A G A A C$
 A GAAAAAGGAAAAAGGGAAGGAAAAAAAGGGAAGGAAGAGCC $C \subset A A A G G A G A G G A C A A A A G G G A G G A C A G A G A C A G A G A C A A G A$ GA $A$ A $\operatorname{A} G A A G G G G G G A A A G A A G A A A C G G G G G G A G A A G G A G G A G$ GAAAAGGGGGGGGAGGGAAAAAAAAAAAAAAAGAAAAAGGBA AAGGAGGCCGGAAAAGGCCGGGGAAAGGGGAAAAAACGAAGG A GAGAGAGAGAGGAAGGAAAGTAAGGGAGGGAGGAGGGAAGA G GAAAAAAAGGAAAACCGGAAAAGGAAGGGGACAACAAAGAG GAGAGAGCAGGGGCCGGGGAAAAGGGAAAAGGGGAAGCAGAG GAAAACGAGAAAAAAAACAGAGAAGGACAACAGGAACAAGGG A A A A A A G G A A GAGAAAGATAAAAGGAGAGGAGAGAAAAAGGG
 G G GAAAAGGGGAGGAGGAAGAAGAGAAAGGAGGGGAAAAGGG GAAAAAACCAACCAGGGGGAAGGAGACAATTAGAGGAGGGGA $A C A G A A A G G G G A G A A C C A G G A G G A G A A G G G G G G A G G G G G G G C$ CAACAAGACGAAGAAGAGGGAGAAAGGAACCAAGBAAAAGAA A G GAAGGGGAAAAGGGGGGCCAACCCCCCCCAACCAAAAGGG G G G A A A A A A A A G G G G A A G G G G A A G G A A G G G G T T C C G G A A G G C CAAGGGGAACCCCGGGGGGAAAAGGGGGGTTAAGGAAAAAAA A G G G GCCCCGGGGAAGGAAAAGGAAGGCCAAGGGGAAGGGGG G G GAACCGGGGAAGGCCAAAAAAAAGGAAGGAAGGGGCCGGG GAAGGAAGGAAGGGGAAAAGGAAAAGGAAGGAAGAAAABAAA
 A A A G G A A G G G G G GAAAA $A \operatorname{A} G G G G G A A A A A A G G A A A A A A G G G G G$ GAAAAGGGGGGAAGGAAAAAAAAGGGGAAGCGGAAGAAAAAG G G GCA $\mathrm{C} A \mathrm{~A} G \mathrm{G} A \mathrm{~A} A A A A A A A G G G G A A A A A A A A A C A G G G G G G G G G G$ GAAAAGGAAGGGGGAAAGGGGAAAAGGAGGGGGGGCAAAAAA
 GAGAGGGGGGAAAAGGGGAGAGATAGATAAGGGAGCCAAGAG G G G G G GACCACAGAGGGAAAAGAGGAAGGGAGGGAAGAGAAG GAAGGAAGGAGGGGGAAGGAACCAAAAGGCCACAACCAAACAA A G G GAA A A A A A GAAAAAAAGGAGAAAAAAAAGGGAAAAGGAA A GAACCCAGCCGGAAAACAAAAAAGACAGGAGAAGAGATAGA G GAA $A \operatorname{GACA} A A A G A G G G G G A A A A A G A A A A C C A A G G G G A A A C G$ G G GAAA A A A G G G GAAAAGGGGAAAAAAAAATCAAGGGAGCAC A A GAAACAAGGAAGGGGGGCCGGGGAAGGGGAAGGAA
A A A A A A G GAA $A \operatorname{AGACCAAGGAACAAAGAGAGGAAAGGGGAAA}$ GAGCCAGACAACCGGGGCCCCCCGGAAAGAAAGAGAACAAAA G GAGAGGA G G G A A A A A A G G G CC G G T T A G G GAAA A A G G G G GA C A
 A G G G G G GAGATGGAGAAAAAGAGGGGGGGGGGGAGAAAAAAG G G G A A C C G GAGGAAAAAAGTTAGAGAGCCAGCCAGCAAGGGG GAAAACCAAAAGAAAGAGAGGAGAAAAGGAGGGGAAAA G GAAG A A A $\mathcal{A} G G G G A C A A G A G G G G G G G G G A A G G G G A A G A G G A C B A G G G$ A A G A A GA G A A G G G A A A A A A G GAGGGCCGGGGAAGAAAAAG G G AAAGGAAACAGGAGAGGAGAAAAGGCAGAGAAAACAAAGGAG

G G GAACCGGAAAAGGGGAAAAGAAGGGAAGGAACAAGAGAGA $G G A G A T T G A A G A A G A G A A T A G G G G G G G G G G G A A A A A G G G G G G$ GTTAAGGAAGGGGAACCGGAACCGGAAAAAAAAGGGAAACCG GAAGGGGGGAAGGAAGGAAAAGGCCGGAAGGCCGGAAGGCCG GAAGGAAGGAAAATTGGGGAAGGGGGGAAGGGGAAAAAATXC
 A G GCCGGGGCCGGGGGGGGAAAAGGGGGGAAGGCCAAGAAAA $A C C G G G G G G A A A A G G G G A A G G A A A A G G G G A A A A G G G G G A A A T$ TGGAACCAAAACCAAAAAAGGAGAGAAGGAACCGGGGGAAAA AAAAAGGAAAAGGAAGGCCGGAAGGGGAACCGGCCAAGGCCG GCCCCGGGGGGGGGGGGAAAACCGGGGGGAAGGGGAAGGCCG G G G G G A A A A G G G G A A A A C CAA G GAACCAAAAAAGGGGCAAA G G GAGGGGGAGGGACCAACCAAAAAAAGACACCAGAGGGAAAC
 GAAGGAGGGGGAACCAACCAAGGATAAAGAGAAGAAAGAACA A G GAAAAAGAGCCACAGGGCCAAGAAGGAGGAGGGAACACAAA C G GCA $\operatorname{C}$ GAGGGAGAGGAAGAAAACCAGGGGGAGGGGGAAAGA A GAGACAAAAAGGAGGGAAGGAAACAAGGAAAAAAAAAAGAT AAAAAAACCGGAAGGAAAGGAGGCCAAAAAAAAGGAAAAAAA
 GAAAAAAGGAAAAAGGGAAAACAAACCAGGCAAACCCGGAGG GAAAAGGGGAATTGAGGAAAAAAGGGGCCCAAGGGGGAGAAC C GAAAGAGAGACCAAAACAGGAGAAAAAGGGCACGAAGAAGG A G G G G A A C CAA $A \operatorname{G}$ GAAACAAGACCACGAAGGAAAGGGGGACC G G G G G GAA $\operatorname{G}$ GAA $A$ GAAAAAGGCACCGAAAAACCGAGGGGGGGGG $A C C G G G G A G C C G G G G A A A A G G G A A A G G G A G A A C A A C A B A A A G$ G G G A G A G A C G G G G G G G G GCGGGGGAGGAAAGGAGAAAAACAG GAATAACGGACGAGGAGAGGAGGACGGGGGAGAAGAACAAGG A A G G G A A G A G G A G G G G G G A A A G A GAGAGGACCCAAAGGAGAA A G G G G G G TACCAAGGAATAAGGAGAAAACGGCCAAAAAAAAA A A A A A A A A A G G A A A G GACACCAGGGGGGGGGGGGGAAAAAAA A G G G G G GAA A GA A A GAA A G G G G G G A GGGGAAGACCAAAGGGG A A A A A A A A CAGCAA $A \operatorname{A} A G G G C C A G G G G A A A A G A A G G G G A G G G G$

 A A GCACCGGGGAAAAAAAAAAAAGGGAAACCAACCGGCAAAB AAGAAAAGGGGAGAGAGCCGGACGACAAGGAGAAAAAGAAAG GAAGGACAGGGTTGGGGAAAGCCAGGGGGGGCAAAGAAAAAA G G G G A GA $\operatorname{G} G C C G A A A G G A G A G A A A C G G A C G G G G A A A G A A G A A$ A A A A A GAAAAAAAGGCCAGAGAGACGAGGCAAGCCAAGGGGC C G G G G A A G GAGGAGAAAGGAAGGGGACAAAAAAAACCGGGGA ACCGGGGAAGGAAAAGCGGGGAACGGACCCCAAGAAAAAAGG GCCGGAAGGAAGGGGCCGGGCAGAGAGAAAAAAGGAGAGGGA
 A A A G GACA GATGACCAGAAAAACACAACCGGAAGGAACCGGG
 GAGAAAAGGAGAACGAAGGCCAGAAGGAAAAGGGGAAAACAA
 GAAGGGGGAAAGGAGGGGAAAGGAGGAGGGGGAGGGGAAGAA G GAGACAGGAAAAGAAGACGCGGGGAAAGCCGAGAAAGAGGC C GAAAAAGAAAGAAGCCGAGGCCGGAAGAGAGGCCAAAAAAA
 G G GAA $A \operatorname{GAA} A G C C G G A A A A C A G A A A A G G G A G G G A A A A C A G A A$ C G A A A A GA GAAAAGAGGAAGGAAAAAAAAGGGGAACCAA GA G GAAGGAAAAAAAAAAAAGGAGAAAACCACGGAAAAGGBAABAA GAACAAGAGGGGGAAGGGGAAGGAAGAGAAGAAAAAAAGGAA G G G GAAAAACCAAGGAGGAAAGACCAAGGAAGAAGAGAGCAA
 CAGGGCCAAGAGGGGAGGGAGAAGAAAACGCCACAAAGAACG

GAGAGAAGGGACAAAGGGAGGAAGAGGAGAACCGAAGAAAGG A A GAAA A CCAACCCCAGGGGGGGGGGGAAGGAGGGAGAAGEC C G GAGAGGGAACCAGGGGAGAGAAAAAAAAAAAGGGGAAGAA G GAGGGACAAAACAGAAAAGGGGAAAAGGAGAAAAGGCAAAC C G GAAAGGGAAAAAAAAAAAAAAGGGAAGAAACAAGAAAAGC G G A G G A A G G G G C C G G A A G G A G A G G G A G G G G G G G G G C A G G A A A AAACAACAGGCGGAAGGAAGAGGCCAGTTAAAAGAAGAAAAA A G GAGAACCAAGGAGCAGGGGAAGGGAGGGGGGGGAAAAGAC C G G A A C C G GCCAA G GACAAGGAAGGAAAAGGAAACAGAGGAG GAGAGGGCAAAAACCCCAGAGCCGAAGGGGGAGACGGAAAAG G G G GAAAAGCCGGAAGGACGAAGGGAGAGCCAGAGAAAAAAG A A A A A GA $\operatorname{A} A A A A G C A C C G G G G A G G G C C C C G G G A A A T A G G G G G$ A G G G G G G G A A G G G A A A GAGAAGAAGAAGGAAAGAGCAAAAAA A GAG $\operatorname{A} G \mathrm{G}$ GCCAACCAGCAGGAAGGAAGGGGGGAAGGAGGAAAA A GAAAAAAAGGAGAGGAAAAAAAGGAAAGAACCGATTAAGAC CACAAAAGGGGAGCCAGCAAAAAGAGGAACCGGAAAGCCGGG GCAAACCAAAAAAGGAAGAGGGGCCAGGAGGCCCCCCCAABA AAAGGGGAACCGGGGAAGGGGAAAAGGAAGGAACCAGGGGGA AAAAAAAGAAGAGGACAAAGACCCCAGGAGAGGACAGAAAAC C G A A A T T A A A A A C G GAGGAAAGAAAGGAAGGCCGGGAAAAAA AAAGGGGGGAAGGGGAACCGGAACCAAAAAAAAAAGAGGAGG G G G G G G G G A A A GAGGCCGGAAACCCAAGAAGCAAAAAAGAGA
 GAAACGGGGAAGGGAAGGAAAAGAAAGGGGGAAGCBAAAAGAG A G G G GCC G G G A A A A A C C G G A A G G G G G A G A G G T T G G A G A G G G A AAAAAGGAAAAAAGGGGAGCCAAGGGGGGCCCCCAGAAAAAA A A A A A TAGCAAAAAAAAAAGGAGGGAAGGCAAGAGGGAACAG GAACCCCCCAGAAGAGACCAAAAGAAAGGGAGGGGAGAGGAA G G GAA $A \operatorname{GAAAACCAGGAGGAAAGAAAAGGAACAAAGACAGBA}$ CAGGAGGGGAAGGGGCCAGGGAAAACAGGAAAAGGAGGAAGAC C G A G A G G A A A G G G G G A G G G A A A A A A G G A A G G A A C C G G G A G G G AACGAGGGGAAAAGGAGAGCCGGAAGAGGCCAAACGGAGAAA A G A A G G G G G A A C C A G G G G G A G G G G G G G A A A A A A G A T T GAC C G GAA $A \operatorname{GAA} A G G A A G C C G G A A A G G G G G G A G A G A G G G A A A G A C A A$ $A C C A A G G A A A G G G G G A A G G G G G G C C A A C A G A C G G G G B A C A B A$ A A G A G C A G G A A A A G GAC G G CA G G G A GGGAACGAGGAACACA G A G GCCAGGAGGCCGGAGAGAAAAAAGGGAAAGAAGGGGAAGA AACAGCAGAAGAACAGGCGCAGGAGAAACGAGGGAAAGGGGA

 AAGAAGGAACCCCGAAGACGGAGGAGGGAGGAAAAAAG GTXA A A A G G A A G G G G C C A G A G G G C C A A A A A A G G A A A A A G A G G G A G G GAAAAAACCCCGGGGGGAAAAAACCCCAAGGGAGGAAAAGAA G GAA A A G A A GAAGCCAGAAGAGAACCCGAGAGACCGGCCGGA

 GAAGGGGGGGAAGACGGAGAGAGGAAAAAGAAGGGGGCAAAA A G G G G G G T T A A A A A A A GAAAGAGCCAAAAAAAAAA GAAGAGG GAACAAAGGAGGGAGAGAAGACAGGAAGAAAGGGGAC
AACCAAGGAAGGAACCAAGGAAGGAAAGAAAACCACAAGCA ACCAAACAAAGGGGAAAAACCGGGGGGAAAAAAGGAAGAAAC C G G A A A A A A G GCC G G G GAACCAAGGAAAAGGAAAAGGCAAA G GCCAAGGAAGGCCGGCCAAGGGGGGGGAAAAAAAAGAAAAAA AGGAAAAAAAAAAGGGGAAAAAAAAGGGGCCCCAGGAGAGAG A GAGATACAGGGACCAGGGAAGGCCGGAACCAAGGAGAAGAA A G GAGGAGGAAGGAAGGGAAAAGGAGAAAGAACAGAAAAGAG GAAAGACAAGAAAAGGAGAGAAGAAAAAAGGGGGGAAABAAA A A A G G G A G A G G A A C G A G GA GA G GAA A A A A A A A GAA G G G G C C A $A G G G G G G G G G G A A G G A A A G G G A C A A A A A A A A A A C C A A A A A G A$

A A A A G A A G G G G G G G G G G CACAGAGGGGCAGAGAGGAACAAAA GAAA A A G G G GAGAGGAGGAGAAGGAGAGACACCGGAACAAAA $A C C A A A A A A G A G G A G G G A G A C G A A G A A G G G G A G G G A A A G A G G$ A GGAAA $\operatorname{A} A A A A G G G A C C C C A G G G A A A A A G G G A A G G G G G G C C A$ AA $A G G A A A A G G G G G G A A C C G G G G A G G G G G A A G G C C G A A A A A A$
 A A G GAAACCAACACAAGGGGGGGAAAAGGGGAAAAGGGAAAA AAAGGAAAGGGAGGAAGAAAGGAAGGAGAACAACCGGGAGAAA GACAGGAGAAGGAAAGGGGAAAAGAAGGGAAAACCAAA GGGG A GAAGGGGAGAGGGGAACCAAGGGGGGAGGGGGAGAGAAGGG G G GAAAAAGCCAAAAGGGGAGCCAGGGAGAGGAGGAAAAAAC CACACAGGGGGAGAGAGGAGGCCGGAGGGCCAGAGAGAGGAG $A G G G G G G A G G G G G G A A A A A G G G G A A A A G G A G G G G A G A G A A A A$ A $G \operatorname{G} G A G G G G G G G G G G A A A A C C C C G A G G G G G G G A A C A A C A A G G$ G G G GACCCCCAGAGAGGGGAAGGCCAAAAGGGGAAAAGGGGA $G C C G A G G A G A G A A C C G G A A A A C C G A G G C C A A A A C A G G G G T T G$ G G G G A G GCCGGGGCCACGGAAGAGGCCAAAAAAAAACGGGGG G G G A C G A G G G G A A A GAA $A \operatorname{GAAAAAGGAAAAGAAAGAAAGGGGG}$ GAAGGAAAAGGGAAGGGAGGGAGAGGAACGGGAACAAAAAGG G G G G A G G A C G A G G A A G G G G A A G G G G GAC CAAGGGGGAA GAA G G G G GAACACAGGGAAGCGGGGGGGGAAGACCGACCAAAAAAA A GAAACCACGGACCCGGGGAAGGGGGGCCGGCCAAAAGGGGC CAACCAAGGAGGAAAACGGGGCCAAGGGAACGGGAAAACABC
 A A G A A A A G GAA $A \operatorname{G} G \mathrm{G}$ GAATXAGGGGGAAGAAAAGGAGGCAAAG G G G G G GA A A G GCCAAGGCCAAGGAACCAACCAGGGAGAAAAA AAAAGAGGAAAGGAGAGGGAAGAGGGGAAGGAAAAGAAAAAG GAAAAAAAGGGACAGGGAAGGAGATAGACAGAAACAAGEGGA GAGAGGAAAGGGGGGAAAGGGGAAGGAAAAGGAAAGGAGCCA A G G G G G G G GAAGGAACCAAAAAGGGCCAAAGACGGCCGAAGAG CAAAGACGGCCAAAACCGAGGCAAAGGGGAAGGAAAAGAGGA GCCATGGAAGGAAGACAAAAAAAGGCCCAGGCCGGACAAAAG GAACCGGGGAAAAAAAAAGAAAAAAGGAAGAGGGGAGAAAGG GAAAAAAAGAAAAGGAAAGAGGACCAAGGAAAAAAAAAGGGG AGGAACCCCCCGGGAACCCAGAGAGAAAGGGGGGGGGAAGAA $A C C G G A A G G A A A A G G A C A G G A A C G G A A G G A A A G C G A G G A G A A$ GAGGGAGGGGGAAGGGGACAGAAAGGGAAAAAAGGGGAAAAA G G GAA A G G GAA A A A A GAAAGGGGAGAAGGGGGGGGACAAAAC
 A A A A G A A G A G A A A G GCCGGAAAGGGGGAAAAGAGGGGTAGAA $A G G G G A A G G A G G G C C G A A G G G G G G G G A G A A G G G G G G G G G G G G$ G G GCAGGCAAGAAGAGAAAGGGGGAAGAACAGGAAGAAAGAG A A G G G G G G G G G G G G G G G A A A A A G A A G G G G G G C C A A G A G G G G C G G GAAAAAAGGAAAAGGGGGGAGCCGGAAAAAGGACCAGAAA $A \subset C A G G G G A A A A A G A G G G G G G A A G G A G G G A G G A A A G A A A C A A$ A A A G G G G A GCCGGAAAAGAGGGAAAGGGAGAGGGGGGCAAAA A G G G G A A A A A A A A G GAAA $A \operatorname{AGGGAAAAAAAGAGGGGGAAAAAC}$ AGGGGGGGGAACCCCAGCCGGCAAGGAAAGGCCAGACGGGGG G G GCGAGCCGGAGGGGGGGAAGGAAGAGGGGGGAAGGAAAAA A A A G G G G G G G G A G A G A A A GAAGGGGGGAAAGGAAAAGAAAA $A$
 GAGAAAGCCAGGGCAGAGGAAGGACGGGAAGGAAGGAGAAGA G GAAAGAAAAGAGGGAAAGAGAAAAAACCAAAAAAAAGAAGG
 A G GAAAAAAGGAAGGCCAAAGAGCCAGGGAGGGAGAAGAAGA GAAAGCCGCGAGAAAAGAAAACACAGAAAGGGGAAAAAAAAA A GAA A A A A GAAGGGGACGGGGAAACGGGACAAAGGTAAAAAA $G G A G A A G A G C C G G A A G G A C A G C C A G A A A A G A A A A A A A A A G G A$ $C A A G G A G G A G G C C G G A A A A G G C C A A G G G G A G G A A G G A G G G G A$

A A A G G G G A C A A GAGGGGGGGGAGGGGAAGCCGAAGGGCCAGA GAGGGGGGGAGAAAGACAGAAAGAGACAGGGGGGGACCCCCC C GAGGCCAACCAAAAAAGGCACAAAAAAAGGGGGGCAAAAGG GCCAACCGGACAAAAGGAAGGACGGAAGGGAAGCCAGAAGAA CAAGGGAAGGAAAGGCCAACAGAGAAAAAGGAAAAAAGAAAG GAAAAAAAACCGGGGCCAGGGGAAAAAGGGGGGGGGGGAAGA GAGAGGGGGAAAACAAAAAAGACAAGGAGGGAAAAGAAAAAA AA $A G G G A A A A A A G G A G G G G A A G G A G G G G G G A A A C A A A A C A G A T$ A A C G G G G A A G A G G A A G G G A G G G G A G G G A A A A A A G A A A GAA $A$ A G G G GATTCCAGCCGGAAAAGACCCCAAGGGGGGAGAGAAAAA CAGGAGACCGAACCCGGAGAAAAGGTTACAAAGGAAGCAAAG GAAGAAACCGGAGGGCCGGGGGAAACAGGGGAGGGAAAGGBC A GAACAGCCGGGAAGGGAAAAGGAAGGAACCAAAACAAGAAG
 AAAGGGGAGAGGGAAGGGAAAGGGAGGGAGACC GAAAGGGGA A G GAAA A $A$ A A $A G G A G A T G G C C G G A G A G A A G A A A G G G G A G C C A$ A G GAA A G A A A A GAGGAGGACAAGAAGGGGAAAAA GAGGAA GA C G G A A G A G G A A GAGGAAGGAGCGGGAAAATTAGGGAACAGAA A A G A A A A A A A A G GAAACAA $A$ AAAAGGAAGGGGAAAACCGGGGC C G G G G G G T TAAAAAAAGGAACCAAACCAAGCAAAAAGAAAAAG A A TAAAGGGGAATAACCGGACAAAAGGGGAGGGAGGGGGGGG G G GAA A GAA $A \operatorname{A}$ GAAAAAAAAAGAGGACAAAGGAAGGGGGGGAG A A A A C G G G GCC G G A G G GCAAAGGAACCGGAAGGGGAAGABAA
 A A A A A G G G G A A C C G G G A GAGGCCAGAAACGGGGAA GAA G G G G G G G A A G G G G A A G G G A A A A A G G G G G A G G G G A A G G A A C C A G G G G G GAAAGGCAAAAAAAAAGGGGAAGGCCAGAAGAACGAAAAAA
 GAAAGACCCCCCCCCGGAGGGGGGGCCAAAAAAGGGGGAAGG G G G G G G G G G G G A A G G G GCCAAAACAAGGGAGAGGGAAAA A A A CAAAA $A$ A A $A$ C A GCAA A $\mathcal{A} G G G C C G G A G G A G G G G G G G G A G A A A A G$ $A G G G G G A C C G G G A G G G G G A G G G A G G G A A G A C G G G G A G A C A G G$ GAAAGGAGGACGGAAGAAGGAAAGGAGAAGGACGAAAGGGGG G G G G GCAAAGGAAAAGGAACCCCGGGGAAAAAAAGAAGAAGG GAACCGGAACCAAAACGGACCCCAAAAGAAAAGAGAAGAAAA G G A A A A A G A G G G A A A C G G G GAGGGAGGGAAAAAGAAAAAAAA
 AACGGCACCAAGGAAGGGGGGGGAGAGCCAGAGGAAGGGAGC C G G G A A C G G G G A A A G G A A G G A A G G A A G G G G A A A A G A A G A A G G G G G A A G G G A G A G G G G G G A A G GAC $\mathcal{A} G G G G C C A G G A A G A G A A A G A$ GAAGGAGGGAGACAGAAAAGGGGAAGGAGGAACAGAGGAGGA C G GCA C G G G G G G A A G A A G A A G G G G C A G GAACA A A A A A G C C C G A GCAGGCAAAAGGGGGAGGGAAAAAGGAGGAAGGAAAAGAAAG G G GAAGGGGAAAAGGAAGAAACCAACCGGCCAAAAGGACGBA A G G A A A A A A $\mathcal{A} G G G G G G A A G G A A G A G G G G G A G A G A A A A G A A G A$ $G G A C A A A G G G G A A C C A A G G T A G G A G G G G G G A G G A G A G G A G A G$ G G G G G A A A A A A GGGAAACAAAAGAAAAAAGGAAAGGGA GAA G G G G G G G GAA $A \operatorname{Gg} \operatorname{G} A \mathrm{~A} A A \operatorname{A} G A A A A A A A A A G A G G G G G G G G G G G A A$ CAAAGAGAGAGGGAGGGAAAAAAAAAAGGAAAAGGAG
CAAAAAGGAAAAAAAAAAGAGGGAGGAGACAAACAGAAGGA $A C C C C G G A G G G A A A G G C G A C A G G A A A A A A C A G G A A A A G G G G G$ A G GAA A G G C C G G A A A $\mathcal{A} A A G G G G G G G G G G G G A A A A A A A G G A A G G$
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 $A C C G A A A G G G G A C G G A A A G A G G G A C G G A G G A G A A G T T G G G G G$ G G A G G A A A G A GAAC C G GAA G G G G G GAAAAAAAAAAA AAAAAA G G G GACCAACCAAGAGGGGAAAACCGGAACCCCAGGAGGGGA

GCAAAGGAAGGGGGAGGATAAGGGGGGAAGGAAAAGGGGGGT TA $A \operatorname{G} G A A C C A G G G G A G G A G A A A G A A G G G G A A G G A G A A G A A G A$ $G C \subset A G A A A G A A G G G A G G A G G G A A A A G G G G C C G C G A G A A A G G A$ A G GCCGGAGGGAGAACCGGACGGGGGGAGGAGGAAAAGGAGA $A C C G G A A C C A A G G A C G G A C G A C C G G G G G A A A G G A G A A G G G G G$ A A GAGAGAACCGGAGAGAAGGGAGAGGGGAAGGAAGAAACCG GAGAAAACCGGAAAGGGAGAGAGGGAAAGGGGAGGGGCATAA GAAGGAAAACCAGCCAAAAAAGGGGAAAACCGGGGAAGAAGA A G G G GCAA C G $\operatorname{AAAAAAAAGAGGGGAAAAACGAGGGGAGCAGAC}$ $C G G A G A G G G C C A A G G G C A A G G G G A A A G A A A C G A G G A G A G G A A$ G G GACAAAA $A \operatorname{A} A A A G G A A G G A A G G G G A A A A A G G G A G G G G A G A G$ A A A A A A A A A A GAGGGAGGGAAAGAGAGGGAAGGGGGAAAACA A A A G G A A $\operatorname{A} G A G G G G G A A G G G G A G G A A A A A G G G G A G A A G A A G G$ GAGAAGGGGAGAGGGAAAAGAGGGAGGAGACACGGCCAAAGG G G GCAGGAAAGAAGCGGAAAAAAAAGGGGAAAGAAAAGGGGG G G G G GCCGGCCAAGGAAGGGAGAAGGGGACAGGGGCCAATXC C G G GAGGAGAAAAAAAAGGAAAAAATTAAAAGGGGGGGGGGC
 A GAAACAGGGGACAGGGAAACAGGAGGGGGGCCAAGGGAAGA G G G A A A G G A A G A A A A A A G G GAGGAAGGAAGGAAAAAACACCA $A C C A C A G G G G G G G G G C A G G G A G C G G G A A A G G A A A A A G G A G G G$
 AAAGGAACCCAGGAAGGAAGGGGAGCAACGGGGCGACCAACAA ACCAAGAAACAAACAAAAAGGAGGGAAAAAAAGAAAGGGCCG GCCGGGGGGAAAAAAGGGAGGAGCCGCGGAAGGAAAGAAAGG GAAAAAAGAAGAAGGGAAAAAGGGAGGAGGGGACCAAAAAGA GAGAAGGAAAAGGAAAAAAGAAAAGGGAGCCGGGAGAAACCG $G C \subset A A A A A G A A A C C C A G A A C A C C G A T A A G G A C A G A A C G A A A G$ GAGGGAGGAAGGGGGGGCAAAAAGAGGCCAAAAAAGAAGABA GAGGGAAGACAGGGGGCAAGAAGAAAGAAAAGAGAAGAGGAA AGGAAGACCAACCAAGGAAGGGGCAAGAGGAAAAAAGAAAAG G G GAA A GAAGGGAAGGGGACCGGGGCCAAGGGACAAGGGGAG $A C C G A G G G G A C A A A G C A G A C C G G A A G A A A A A C G C G G G A A A A G$ GAAAAAAAAGGCCAAGGAAGGGGAAGGCCGGAAAAAAAAGAA $A G G A A G G A A G G A G G G G G G G A A A A G G G G A A A A A G G A G G A A G G G$ GAAAAAAGACCAGAGGGAAAGAAGGAAAACCGGGGGAAAAAA G GACCAAAGAGGAAGAAGGGAAAGAGGCCGGAAAAAACCGGA AGGGAGGAAGGCCCACCCCAAGAGGAGGGAAAAAAGGGAGGA
 G G G A A G G G G A A A A G A A A G A G G G G G G G G A G G G A G T T A A G G C C C C GGCCAAAAAGCCGAAAGGGGGGAAAAGGGAAAAAGAAAGGG A A GA $\operatorname{A} A \mathrm{~A} G \mathrm{G} G A A \operatorname{A} G \mathrm{G} A A A G G G C G G G G G A A A A A G G G C A A G C C G$ G G G G G G GAAGGGGAAAGGACAAGAAGGGACAAAGGGGAAGAA GAGGAGGGGCCAAAAAAAGGGCAAGAAAAAGACGGAACCCGG

 G G G G G GA $\operatorname{G}$ GAACCAAGGGGAAAGGGAAGGGGCAGATTCAAAG G GGAACCAAACAAAGGAAAAAAGAAGAAACCAAAGAACCGGA GCAGGAAAGAGAAAAGGCCAGGGAAAGGAGGGACACCGAACA A GAAGGGAGGAGGGGAGAGAGGAAAGAAAAGCCAAGAAAAAG G G GAAA A A A $A \operatorname{A} G \mathrm{G} G \mathrm{G} G A A G G C C A A G G G G G G G G G G A A C C C X C X A$ A G GAGCAGAAAAGACGAAAAAAAGGATGGAAGGGGGGAAAAC CAACCAGAACCGGAAGGAGGAGGGGGGAAAGAAGGGGGAAAG GAGCCCCAGAAAAAGAGGGGGAACCCCAGGGGAGAAACAGAA A A A A GCC G GAG GA G GAAAACCAACCGGGGGAGCGGGGCCGGG GAGGGAGCGAGGAGAAGGAAAGGAGCAGGGGAACCAAAAAAA GAGGGAGCCGGAAGGAAAAAGAAAAGGTTACAGGGCCCCGGG A A GA $\operatorname{A} A A \operatorname{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G A A A A A A A A A G A G G A A G G G G A A A G G A G G G$ A GAAGGGGGAGGGAGAAAAGAAAGACAGGGGAAAAAAGAAAG
$G C C G G G G G G G G A G G G G G G G A A G G A A G G A A A A G G G A A A A A A G A$ A A A A A A A A GAACAGGGAAGAGACACGAGGGGCCAAAAGAAAA
 A GAACAAGGGGAAAGGGCCGAGAGGGAAGCAGGAAACAAAGA GAAACAGAAGGGGAGGGAGGGAAGGGGGACCACAAAAGAAGC A GA A $\mathrm{A} A \mathrm{~A} A \mathrm{~A}$ GAGGGGGGGGGGAAACAGAACCGAGAGGTXGAA A G G G G G G G GACAC G GAAAAGGAAGGGGAAAAAAA GAAA G GAAA AGAAGAGAAAAGACAGGGAGAGACCGAGAGGCCAAGAGAGAG $G C C C A C C A G G G G G G G C G A G G G A A A A A G G G G G A A C C G A G A A C G$ G G GAA A A A G G G G GAACCGAGAGGGAAAGGGGAA GGGAAAAA G G G GACGGGGGAAGGAGAAACCAGGGAGGGAAGGAAAAAAGAA
 CACAGAACAGGGAAAGGGACACCAAACGGGGCCGGAAAGAGG G G G G A A A G G G A G GA G G GAA $A \operatorname{CA} A A G G G G G A G A G A A G A G G A A G A$ CAGGGAAAAACGGGGCCAAGGACGAGCAAGGGGGGAGAAAAA A G GAAAAGAGAAGGAAAAACCCCAGGGGGAAGGAAGGGGGGA A G G G G A A C C A A A G A GAGGAGGAGAGAGGAAAGGAGCAAAAAA G G A G A G A G G G G A A G G C C G G A G G A A A A G G G G G G G G A G A G G G G A A G G GAA A G GAGGGGGAGAGAGGAAAGAAAGGACGGGAAAAAA A A G A A G A A G G G A A $\mathcal{A} A G G G G C C G G G G G A G A C C G G A G G G A A G B C$ CAAAAGGAAGGAAGGAAGGGGAAGGAAAAGAGAAAAGAGAGA G G G A A G G A A A C G G G GC C G G G G A A T T G G A A A A A A G G GA G G G G G GACAAAAGGGGAGACAAGACCAGAAGGCAGGGGGGAAAAAAG G GAA A A G G A GAAGGGCACCAGGAAGGAAAAGGGGGGGCAAAA ACCGAAGGGGGGGAAAAAAAGAAAAGGGGGGGAGAAAGGGGC C G GCCAAAGAGAAAAAAGGGAAACCGGGGGAAGGGGCAACAG GAAAGAGGGTTGGAGCCGGCAACGGGGAAAAAGGGGAGGGAA GAGGAGACCGGGGGAAGGGAACCAAAGAAGGAAGAAGAAAAA
 A G G G A G G C C A G A G G G A G G G G G G A G G G G GA C A $\mathcal{A} A G G G G C C G G T$ TACAAAGAGCCAAGGACAGGGGAGGGGAAAGGGAAAAAAGAG AAAGGAAAAAGAAGGCCGAGGGACCGGGGGGAAAAAAAAAAG GAAAGGGAGGGAAGAGGGGGGGAAAAAAACCGGAGCCGGGAA A GACCAGGGAAGAAAAGGGGACGGAAAAGACGGCCAAGAAGB G A A A A A A G A A A G G G G G A A G A A A A A A A A A A G G A GA GA G G G G G G GAAGGGGAAGGCAAAAACAAGGGGGGAACGCAGAAAACAGAB A G G G GA A A G G G G G G GACAA A A GAGCCAAGAAGAA G GAGAAA G C CAAGGAAAAGGCCAAGAAGGGAGGGAGAGCCGAGGAGAAGGG A A G G A A GAAGACCCCGGAAAAGGAAAGAAAAGGAACCAAATA G G GAGGACAGAAAGGCCGGGGACGAGAGAAAAGAGCAAAAAG A A G G G A A G GAAGGGGAGGGAAGGGGCCGGGGAAAAAACAAGC A A A A G G G A G G A G A A A A A $\mathcal{A} A A G G G G G A A G G G G C C C C C C A A A A A$ $A G G G G C C A G G G G G A A A A A G G G G G G G G G A A A G C C A G G A G A G G C$ A G G G G G G G G G A G A A T A G G G A G G G G G T T G G C C G A A A A A A A GAC A GAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGGAAGAG G G G A A A A G GAA $A \operatorname{GGG} G A A A C A A G G G G A A A G G G A G G G G G G A A G G$ $A G G G G G A G A G G G A G A A A G G G G G A G G A A G G A A G A A A A A G G G G G$ G G G G GCCAAGGGAGAGAGGCCAAGAGAGGGAAACAAAGGCCA A G GAACCACAAAGACGGGGGGCCCAGGGGAGACGGCC
A A A A G G A G A A G A A G G G G G G G C C A G G G G A A A A A GA G G G G A A C C G GA GAGCCAGAAGGGAAGGGAAGGAAGGAGGGGAGGAAGAG GAACAAAAGAAAAAGAGGGGGGGGGAGAAAAGGAAGAAAGGA A A A A A A C G A A A A G G G G GAGGGAAAGAAGGAAGGCCCAAACAG GAGGGGGACGAGGAAGAAAAAAAAAGGAGAAGGAACAACAGG GAAGGAAAAAAGGAAAAAGGACAAGGAGGGAACGAAAAAAAA $G G A A A G G A A A C G G G G A A G G A G G G G A A A A C G G G G C G A A A A A G A$
 A G G A G A A A A A A G G G G G G A A G G G G G G A G A A G G G A A G A A G G C C A $A G A A C A A A C G A A G A A G G C C A A G G G G G G G G G G A A G G C A G G G G G$

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 A A A G G A A A A C C A A C C G G G G C A A A A G G A T T G A GACA G G A G A G C CAGAGGGCCACAGGGAAGGAAGAAAGGAACCGGAAGGAAAGA A A G GAGAAGCCGGAAAAGGAAAGGAGAGGGAGAGGAGAAGGG GCCGGGAGGGAGAAGAGGGAAGAGAGGCCCAGGAAAAAAGGG G G A A A A A A A A A G GAAGACC GAAGGGGAAGGAGGAA GAA GAA G $A C A A A A A A A G G A A A A C C G G A A G G A A G G A G G G A A A A A A C A A G B$ GAAGGCGGGGGACAGGGAACCAACCAGGGAAGGGAGAAAGAA

A GAGGAAGGAACCAAGGATAAAGGGAAGAGAAABGCCGGGGG GAAAAAAGGCGCACCGGAGCCGGGGAGAAGGGAGAGGGACCB GAGAACAAAAAGAAAGAAACAGGAGGGAGGGCACAAAAAAAC $C G G T T A C A G G G A C A G A G A C G G A A G G G G A A A A G G C C G A A A G G G$ $A C C C A G G A A C C A G A A A G A G G G G G A A G A A A C C G G G G G A A A A A A$ AAA A A TAGGGGAAGAAAGCAAAGAGGAAAGGCCGGGGAAAAG A G G G G GACCAACCAGAGGAGGGGGGGAGAAACCACBAGAAAG GAAGGAAAGAGAGGGGAGGAAAGGAGGAGCCCAAGGAGGGGA G G GCC G A G G G G A A G GCCAAAAC GAAAAACGAGACCAGAGGGG A GACCGAGAGAACACGGAACCAAGGAAGGGGCCAAAAAAGGA AAAGGGGGGGCGGAACAGGAAGAAGACAGGCAGAAGGGGGGA A G G A A A A A A G G A A A A GAA $A \operatorname{AGGGAAAAGAAGGGGGGAAAAAAA}$ A A A A A A A G GAAAAAAGAGAGAAAGACAGAGGGGAGGAGAA GA $G G G A A A G A A G A G G G G G G A A G G C C G G A A A A A A G G A G A G A C A C A$ G GAAAGGGGAACCAGAAGGCCAAGGGACCAGAGAAAGGGAAG A G GAGAGGGCAGAAGAAGGCCAAGGAACCAGAAAGCCCCGGG A A A A A A GCAAAAGACAGCCGAGGAAGGGGCCAAGAAAGGGAA GCCAAGGGGGGAAAACAAGGGGGGGAAGACAAGAAAAAAGAA AAAGGCAGGAAAAGGGGAGGGACAAGGGGCCGAGGCAAAGGA AAACCACAACCCCACAAGAGAAAAGCAGAGGAAGGGGACAAG G GGCAGGAAAAGGGGAAGGGGAGAGAGAAGGACAAGAAAGAA A GAA ACAGGAGCCAAAAAAAAGGAAAAAAGGGAGATTGAGGA G G GAA $A \operatorname{G} G A G G A G A A A G G A A A G G A A A A A A G G G G C C A A G A G G A$ $A \subset C A G G G A A A A G G G A A A G G G G A G G A G A A A A A A A A G A A A A G G A$
 G G G G GCAAGGAAGGGAAGAGGAAAACCAAGGGGCCCAAGAAG G G GAGGGAAGGGCAGAAAGAGAGGACAGAAGAAAAGAGAACA
 A G G A A G A A GA $\operatorname{A} G A A C G G G G G G A A A A A A G G G A G G C C A G A G G A A$ GAGCCAGAGGAAAAAAACAGGAGAAAAGGTAAAGAAGAAAAG ACAAAACGGAGGAGAGAAGGGAAAAGAAGGGGGAAAAAAAAG AACAAGGGGGGAAAGGACAAGGAGGCAAACGAAAGAGAGAGA A G G G GCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAAGAGG A A G A G A $\mathcal{A} C G G G G G G G G G G G A G A G G G A A A A A A A A G G A A C C G G G$ GAGAAGCAGAGAGGCGGAAAAAAAGAAGGAAAGAAAAGAAAA ATTAAAAACACAGAGGGAGGAAGACCCGAGACACCCAGGTTG G GAGAAAAGAAAAGGAGAGGAGGAACCGAAAAGAGAGAGAAA G GAGGAACCGGGGGGGGAAAAAGGGCCGGAGAGAAGGGAAAG G G G C C A A A A A A G G G G A G G G A A G G G G G G A G G G G A G A G A A A A A $G$ G A A A G G G A G A G G A G G G G G G G G A G A A G G A G A T A C A G G G A A G G A A G GAAGAGGCAAGAGAGGGAGAAAAAGAACCAACAAAAAA GAG A G A A A A A G GCCCA GAGGAAACACAACCTTAAGACCGGGAAAG A GAAAAGGGAGGAAGAGAAAAAAGGGGGGGGACGAAAAAAGA A A A A C A A CAA G G GCAGAAAAAAAGGAAAAGAAAA GAGAGGAA A A A A ACCGGCCAATTAAAAAAAAGCAAGGGGCCGGAAAGGGG GAACACCGAACGAAGCCGAAAAACCAAGGCACCAAGAGGGGG GAACACAAAGGAACCGAAAAGGGGAGGAAGGCAAGAAAAGAA C GAGGGGCCAAGGGAAAGGGGGCAAAGGGAAAGGGGGGAA$A A$ GCGCCGGAAAAGAGGGGGGGGAAGGGAGGGGCCCAAA
G GAGAAACAAAGGGAAGGAGCCAAGGAAGGAAAACCGGGGG GCAAAAGAGAAGAAGAGAAAAAGACAGGGGAAAGGCCABAAG
 $C \subset C G G A A G A A A G A G A A A A G A G C A G G G G A A G G A A A A A A G A A G G$ GAAAAGGAGCCAAGACCAAAAGGGGAAAGCCGGAAAGCCAGG C G G GACCGGAAAAAACCCAGGAAAAGAAAAGGAACAAGGGGC $C \subset A C C C C C C G G C A G G C C G A G G A G G G A G A A A A A C C C A A A A A G A$ G G GCCAAAAAAAGAGAAGGAGGCGACCGTTGGGGGGCAAAG GAGGGAGGAGGCCGGAAGAAGAGAAAGAAAGGGAGGGCCGEC $C G G A A G A A A A G G A G G A G A G G A T T G G G A A A G G G A A A G G G G C C G$

GAGAAAGGCGGAAGGGGAGGGAGACACGAAGGAAGGAAAACG GCCGGGGCCAAAAAAGGAAGGGAGGGAGAACAAGGGAAAAGG GCCAGAGAGGGAGGGGGAAAAGGGAGGGACCGGAGCAAAAAA GAAAGAAAAGGCACAGGCAGGAAAGGCGGAAGGGAGAGAAGA GAGAAGGGGAGCCAGGGGGCCCCAGCCCCAGAGAGCCGGAGC C G GAAAAACGAGAAAGGCGAAGGACGGAAAGGAGGGGAAAAA GAAAACCGGGGCCAGAAGGAAGGGGACAAAGAAAACCAAABA CACAAAAGAGGGAGAGGACAGGGGGGAGGCCGGGAAGGAGAA A A GCCGGGAGAAAGGGAAGAGACGGGAAAAGAACAAGAGAAG GAAGGAGAAGAAGAGAAAAGGAGGGGGGAAGGAACGGAAGAA A A A A A G GA $A$ A $\operatorname{A} G A G G A A A C G G A G A C A A G G A A G G G G G A G A G G G$ GA $A$ A A $A \operatorname{GA} A G G G G G G A A G G G G G G C C G A A C A G G G G G G A A G G G A$
 A A A A A C CTTGGAAAGCCAGGGAAGGGACGGGAAGAGGAGGGC CAGAAGGAGGAAGGAAGGGAAGGAGAAGGGGAAAAGAAGGGA A GAGGGGGAGAAGGAAGGAAACCGAACGAAAACAGGAAAAGA
 C C C G G A G A G A A A G A G G G A A C C G G G G G G G G A G A G A G G G G G G G A A A G G A A C G A G G GAGGCCGGGAACGGCCAAAAAGAGGGAGGAC C GAA A G G G GCCAAAAAAGGGAAAGGAAAACAAAAGAGGAAGT T G G G G G GAAAGGATTAAACGGGGAAAAAAGAGGGGAAAAGAA ACCGGGGGGAAGGGGGAGGCCCCAGAGCAGACACAGAGAGAA GACGGAAAACCCCGGAAAACAGGCATTAAGGCCAAAGACAGA
 GACCCAGAACCGGGAGGAAAAAAGGGGAAAACCAGGGGAGGG G G GAA $A \operatorname{G} G \mathrm{G} A \mathrm{~A} G A A \operatorname{A} A A G A G A G A G G C A A C G A A A G G G G A A A G C$ A GAGGAAGGGGAAAAGGGGAAAAGGGGGGGAAAGGGAGAGAA G G G T T G A G GAGAGGGAAGGAAGGAAAGAAGGGGAAAAA GA GA AAAAGAAAACGACGGAGAAAAGGAGACAAAGGGAAAAAAAAG GAAAAGAAAAAGGAAGGAGGAGAAAAGAGGGAAAAGGGACAA G G G G A A A G A A A G G G G A G A A G G G G G A A A G G G G C A G G C C G G A A A ATATTGGAGACACCAAGAGACGGGGCAGGCCGGGGAACAAAA A G G G G G G G GCCGGAACCGACCAGGAGGGAGAGAAAAACACAA A G GCCAAGGCCGGGGAAAAAAAAAAAAGGGGGGGGAAAAAAG $G C \subset A A G G G G G G A A G G G G A A A A C C G G G G A A A A G G A A A A A A G G G$ GAAGGAAAACCAAAAGGAAGGGGGGAAGGAAAGGBAACACCG AGGAGCAGAAAAAACCAAGGAAAGAAAAAAAAAAAAGAAGGG G G GAA A G G G G GCGAAAACCCGAAGGAGGAGGAAGGAGAAGAA GAACC $A \operatorname{AA} A G G G A A G G G G G G G G G G G G A G A A G G C C G G A G G G G B A$ A G GAA A G G A A A CA A A A A A A G GCAGAGAGAGAAAATGGGAAA G AGGGGAAGGCCAAGAAACAGGCCGGACAGAGACAAACCAAAA A A A G G G G A A G G G G G A A $\mathcal{A} G G G A A G G G A G A A A T G G A A C A A A A A G$ GCCGGAAAAGGGGATGGCCAGGAAAAAAAAAGGAATTACGAG A A A A G GAA A G G G G A A GCGAGGGCCCAACCGGGGGGAAGAGAA AAAAAGGAAAGGGGGAAAACCGGCCAGAAAAGAAAGGCAAAA A A TAAA A G GAAAACCAACCGAGGCCGAAGGGGGGGGABCACA GAA $A$ A A $A \operatorname{G} A G A G G A C G G G G G G G G A G G G G G A G A C A A A A G G G G G$ AAAAAAGGGGAGAAAGAAAAAGAAAGAGAAGGGCCAGGGGGA A G GCCAACAAGGGGGGGGGGGAAGAGGTTAAGGACAAGAAAA AGAGAAACCGGAAAAAAAAAGAGAGAGAAGGCCAGGGCCCCA A G G GAA A ACCCAAGGGGAAAAAAAAAAGGAAAGAAAGGAGAA GAACAGGGGGGAAGGGAGAAAAAAAGGAAAAGGAGAAGGGGA A GAGGAAGGAACCGGCCGGAGAAGGAAGGGAAAAAAAAAGGG A G G GAAAACGGACAAAACCCCCCGGCCACGGCCGAGGAAGGA $A G G C \subset A A G G G G A A A A A A G G G G A A G G G G G G A A G G A G G A C A A G G$ AAGGGGAAAAGCCAAAAAAGGAAGAAGCAGGAGGGGGAAGAG
 GAAGGAAAACGAGAGGGGGGGAAGGGGCAGGGAGGAACAGAA GAGAAGGACCGAAGGGGGGAACCAGGGGGCAGAGACCATGAG

GAGAACCAAGGAAAAGGGGGGAAGGAAAAGGAAGGAAGAAAG G G G A A A A G G A A A A G GA GATGAGGACGAAGCAAAA GAGGGCC G GAAGGGGAAGGGGGGAAAGGGAAGGGGAGGAACAGAGGAGAG GAGCAGGGAGAGAGGGAGAAAAGGGAAGGAAGGGAGAAGCCA G G G G G G G G G GAAA $A \operatorname{A} A A A A A A G A G A G G G A A G G C C G G A A A G G G G$ G G A G A A G A G C C A A G A G G G G A A G A A A G G G G A A A T A C A A G G G G G G G G G G A A G G G G A A G G A A A G G G G G A A A G G A G G G A G G A A G G A G A AGGCCAAGGAAGGGAGGGGGAGGCCGGAAGAAGGACAAAAAA C G G G G G G A A G G A G C A A A G G A A A G G G A A A A A A A A CAC CAAAAA AGGAAAGGGAGGGGGAGCAGGAGAAGAGGAGGAAGAGCAGGG A A G GAGGAAAGGAAGCAAAGGAAGGTAAGACGGCCAAGGGGA A A A G G A A G G G G GAA $A \operatorname{AAA} A G G A A C A G G G G G A G A A A G A G G G G A G$ A G G G A T A G A A G A C G A A A A G GA G G G A GAGGGAGAAACCTXGA GAAAAAACCGGAGAGAAAAGAACAAGGGGAGCAAGGACAAGA CAAAAGGGAGAAGGGAAGGGGAAAGGGCAAGGAAAAAGGGGA A A A A G GAGACAAAGAAGAGGGGGGAGGGAACGCCCAACAAAA $A C C A A G A C G G A G A G G G G A C G G A G A C A A G G A A G G G G G G G G G B A$ A T T G G G G G A A G G A G G G G G G A G A G A C C C G G G A A G A A C C G G G G G $A C C A G A A A A A A C C G G G G A A C A G A A G A A A A A C C A A A A G A C C B$ G G G A T A A C C G A G A G G A A G G G G A G A GAACAGGAAA GAA G G C C C C GAAAAATTAAGGAGGGGAGAAGAAAAAGAAGGAACAAAAAA AAAGGAAAGAGAAAAGGGGCCAAAAACGAGAACAAGGCGGGG A A G G G G A G G G G G A A G A G A A G G G G G G G G G A G A C C A G G G A A G G G G TACAGACAAAAGAAGGAGGGAAGGGAGAAGAGAGGAGEGGA
 A G G G GAAAAGGGAAGGGCACCAGAGGGAGAGAGGGCCGBCCG GAGAGAGAAAAAAGGGAGGGGGACCGGAAGGAAGAGGCAAAAA GAACCAGAGAGGAGAAGCAGACAAAGAGAGAGGAGAAAAAAG A G G A A A A CAGGAGAACCGGGGACGGGGAGCCGACGGGACAAA G G G A A G G A A A G A A A A G G G G GGGAAACCCCGGAAAAAAAAAAG
 G GAGGAAGGAAGGAAAAGAAAGGAAAGAGCCGGAGAAACGAG AAAGGAAGGAAGGAAAGACGGACAAGGAAAAACCAACAAAAG A GAAAGGCCACGGAAAAAGAGGGCAGAGAAAGAAAGGGAAAA AAGAAACCCAGGGGAAAAAGGAAGGGGAAGGGGCCAAAAGAA A G GAA A G A A G GAACCGGGGAAAAAAAAGGTTGGAAAAAAAAG GAA A G G GAAGGGGGGAAGGAAGGAAGGGGGGGGGGAAAAAAA A G G G G G G A A G GAA $A \operatorname{GCCA} A C C G G A C G G A A A A G G A A G G C C C C G$ GCCGGGGGGGGAAAAGGGGAAAAAAGGCAAAGGAACCCCGBA A G G A A A A G G G G G G G G G GCCGGCCAAGGAAAAAAAAGGAAAAA $A C C G G A A A A A A G G G G G G A A A A G G A A C C A A A A A A G G G G A A G G G$ G A A A A A A A A A A G G A A G A A ATTAGGAAAGGAAAAGAAAAAGGG
 A G G G A G G G A A G A A A G G G GAGGGGAAAAGGAGAAA GACAAA GA
 C G G A C G G A A G G GAC CA $\mathcal{A} G A G G A A G G G A G G A A C C A A A C C A A G A$ GAAGAACGGGGGAGGAAGGGGAAGGGGGGAAGGGAGGCAAAA AAGGCAAAATAAGAACCGGAACCAAAAAGGGAAGGGGAAACA GAAAAGGACGAGGAGAGAGAGAGAGCCACCCAAGGGG
G G G A G G G A G G C C A A G G A G G A G G G G A G A A G G A G G G C A A G G G G GAAAGAGGGAACCGAGGAGGAGGGGGGAGCCGGGGCCBAABA AAAGGAAGGGGGGAAGAGGAGAAAACCAGGAGAGAAAAAAAG A G A A A A G A G G A A A A G G G C C G G G G G G G A A G A A G G A A A GA G G A G GAAAAAAAAAAGAGGGAGGCCCCAGAGGGGGGAAAACAGAAA A A G G G G G G GCACC $C$ G $\mathcal{C} A C G G G G T T A G A G G G C C A A A A A A A C C A G$ A A G G G A G G A A A G G GAAA A G G G G A A GAGGGAAAAAAGGGAAA $A$ G G G G GAA $A \operatorname{GAAAAAAAAAAAAGAGGAGGGGGAGGAGGAGACCG}$ $G G A A A C C G G G G A A A G A A A A G G G G G G G G G G A A C A G G A A G A C A C$ $C G G A G A A G G G A A C G A G A G G C C A A C C A G A A G A G G A A G G C C G A A$

GAGAGAGGAAGGGAGAGGAAGGAGGCCGGAAGAAAGGCCGGA
 C G G A A A A A A T T G GACGGGGAGGGGAAAGGAAACCAGAAAAGA G G G G G A A A A G GAGGAGGCCGGCACCAGAACCGAAGACAGCCA AAAAAAAAAGGAGAAAGAAAAAAAGGAAGAAGGACCAGGGGG GAAAGGGAGAAAAAGAGAGCAGGGGACGAAAAAAAGAGAAAA $A G G C C A A A G G G G A G A G A G A A A G G G G A A G G A A A A A G A G G A C C G$ AAGACGGGGGGGGAAGGAAAAAAAAAAGGACAAGGCACAAGAG A A A C A G G G G G G A A A A A A A G GAGGATAGGGCCACGGGGGAAAG AAAAAAAGGAAAAAGGAGGGGAAGAAAAAAAGGCCGGAAAGA G GAAGAACAAGAAGAAAAGCCAAGGAGGGGGAAGGAAAAGAA ACCCCCCCCGGAACCGAAAGGAAAAAACCGGGGTTGGCAAAC


 $G C C A A A A G G G G G G G G G G A A A A A A G G A A A A C C T T G G A A G G G G G$ G G G G G A A A A G G A A A A G GAA $A \operatorname{ACC} C G G C C G G A A A A G G G G G G G G A$ A A A A A A A G G G G G G A A A A A A A A G GCCGGGGAAAAAAGGCAAAA A A A A A A A A A A A A A A A A A GGGGAACCCCGGGGCCCCAACCGGG G G G G G G G A A G G A A A A A A G G A A C C A A G GAAGGTTCC G G A A G G A AAAAAAAGGGGGGGGAAAAAAAAAAGGGGAAAAAAGGAAAAA ACCAAAAGGCCAAGGGGAAAACCAAAAAAAAAAGGAAGGGAA A A A G G G G G G G G G G G G A G G G A A C C A A A A CAG GAA A GA GAAAA $A$ A GAGAGAAGGAGAGGAGGAAAAAAGCAAAGACCAAAGAAAAG GAGGAGAGGAAAGAGGAGGAGAGAAAGGGAGAGAGGAAAAAG A G G A A A A A A A A C C A A A A G G T T G GAAAAGGGAAACCCCA G GAA AGGCCAAAAAAAAAGCCCCAGGGCACCAGACAAGGGGAAGGG
 A G G G G C A A G A A G G G G A A G G G A A A G G G G G G G G G G G G G G A A G G C C G G G G A A A A G G A A G G G G G G A A A A A A GGGGAAGGAAAAAAAAA ACCGGCCGGAAAAAACCCCGGGGGGTAGCAGGGGGAAAAGGG G G GAGAGGGGGGAAAAAAAAAGGAAGGAAGGGGAAGAAAGGA AAAGGCCGGAAGGGGAAAAGGAAGGGGAAAAGGCCGGAAAAG G G G G GCCGGAAAAAAAAGGAAAGAAGGGGGGAAGGAGAAAGAG $A G G G G A C A G A A G G G G A A G G G G A A A G G A G A A G G G A A A A A A G E G$ GAGAAGGGGAAGAGGAAGGGAAGCCAAGGGAGAAGGAAACCG G G G A A A A A A G G GA G GACAGCAAAAAGAGGAAGAGACCAAGAA GAAGGGAAGAGAAAGCCAGACAGACAAAGAGGGAGACAGAGG
 G G G G G G G G A G A A C G A G G A A G G A G A A A A G G A A G G G A C C G G G G G GAGGAACGACAGGGGCCGGCACCAAGAAGCCGAGGGGAGGAA GAAAGGACCGGAACCAGAGAAAAAGACGGAGAAGGGAABACA AAAGGCCGGGGAACCCAGAAGGAGAAGAAAGAAAAAGGGAGG A A A A A A A A A A A G G GAA $A \operatorname{GGAAGCACAGAAAAGCCAAAAAGGGG}$ GGGCCAACCAACGGGAAAAAAGAGAGAGAAAAACCCGAGAGA A GAGGAGGAAGAGCCAGGGAAGGGGAACCCCGGAACCAAGAG GAAATGGCCGGGGGGGAAAAAAGCCAGGGAAGGACAAAAAAA A G GA $\operatorname{l}$ A $\operatorname{GAA}$ A A A A A GAACCAGGGACAAGGGAAGAAAAAACAC C GAGGGGAAAGGAGGAAGGGGAAGGCCGAAGAGAAGGGAAAA AAACAGACCAAGAAAAAAGGAAAAAAGGGGGAAGGGGGACAA A A G G G G G A C A G G G A A G G G G C C A G G GAGAGACGGGACC G G G G A G G G G A A A A A C G G G G GCAA G G GAAGGCCAAACGAGGAGGAAGA G A A C C G A C A G A G A A G G A A A G G G A A GAGGGAATTAAAAAAGAA A G GAGGGGGAAAAAAGGAGGAAGGGAACCGGAGGAAGGGAGA A G G GACACCAAGGAGAGAGAGGGAAAAAAAAAGGAAGAGAAA GAGAAAAAAGGCCCCAAAGGAACGAGAGAAGAGGGAAAAGAC CAAGGGGAAAAAAGGGGGGGGGGACGAACGGAAAGACA GAAA A G G A G A A A C G G G G G G A A C C G G G G A A G G G G G A A G C C G A A G A A $G$ GAGACAGGGAGAAACAGGGGGCCAAAGGGCAGGGGGAGAAAC

C G G GAA A A G G GAGAAGGGAGAACGAAGAGGGGAAGGAAAAAG A GAG $A \operatorname{GG} \operatorname{GA} A C C G A G G A G G G A A A A G G G A G A A A G G A A A G A A G A G$
 GAACCGGCAGAAGAGAGGGAAGGAGAAAAGGAGAAGGGAAAG A GAA ACAAAGAGGAAGAGGAGGGCCGGAAAAAGGGGAAAAAG G G G G G G G A A G G A G G A G A G A A G G A G G A A G G A GAA A A A A G A G G A
 G G G G GAA $A$ A $A \operatorname{A} G G A A A A C C A G G A G G C C A A G G G G G A G A G A A A A$ A A A A A A G G GAAGGCAGGCCAAAAGAAGGAGAAGAAAAAAGAA GAACCGGAGAAGAGGAGAAGGAAGGGGAAGGGGGAGAAAGAA ACCAAGAAGGAGAGGGGCAAAAGGGACGGAAAGGAGAAAAAA G G G G A A G A A G G A A A G G A G G A A G G G G A A G G A A A A G G GA G GAA A G GAAAGGAAGGAGAAGGAACAAGCAGAGAGGACCAAAGACCA A GAGGGGCCAAAAAGGAAAAAACGGGAGGCAAAAGGGGAAAAA CAA $A \operatorname{GA} A A A G G A A G G A A G G G A A G G A A G A A G G G A G G A A A A A G G$ G G G G GAAAGAGAGGAAGGAACGGCCCAAAGAAAGGAAGAAAG GAAGGGGCACCAAGGGAAGAGAGGGCAGAAGGAGAAAGAAAC CAAGGGGGGCCAGAACCGGGGAAGGACAAAGAGAAAAGGGGG $G G A G G A A A A G G A A G G C A A A G A A G C A A G G G G G A G A A A G A G G A G$ A A G A A A A G A G A A T G A G GAA G GAA GAAGAGGAAAG GAAAAAAA $A C C A A G G A A G G A A C C G G A G C C G A A A G A A G A A A G G G G G G A A A A$ AAGAGGGGGCCAACCAGAGAAAGCCGGGGCCGGAAAAAGAAA G G G G G A G T TA G G G C C A G G G A A C C G G C C C C A A G A C C G G A G G G A A G G A A G G A A G G A A G GAGCCGGGGGGACGAGGAAGAAACCGAA G GAAGAACCAAAGGGGAGGAACCAAAAAACCAAGAAGCAGAA
 G GAGGAGGGGGAAGGAAAAGGGGGGGAAGCCAGGACACCGGA

 C GAGGCCGGAGGGGGCCGAGGCCACGGGGGGAGGGGGGGGGG A G G G A C C G GCC C A G GAGGGAAAGGGAGAAAAAACCACAAAAC A G G A GA A A G G G G GA G G GAGGAAGGGGACCCAAAAACAGGAGC A A A G G A A G GAA A G G GCCAAAGCAGAGGGGAAAAAA GGGGGGC
 A A A GAGGAGCAACAAAAGGGGGGAAACGGAACAGGCCAAGAG GAAAAAGAAACGAGGAGACGGAAGGAACCGGAAA GGGGGGGC
 ACAAGGGGGGGGGGAGGGGGGAGGAAGGGAGGGGGAACAAAC

 CCCAAAAGGAACCAAAAAAGGCCAAAAGGAAGGAAGAAACAA A A A A A G G A ACC G GCCAAAAAAGGAAAAAAAAAACCAAGAAAC CAAGGAAAAGGGGGGGGAAAAGGAAGGGGGGGGGGCAAAGGC CAACCCCCCAAAAGGAAGGAAGGAACCGGGGGGGGCCAAGGG GAAGGAAAAAAAAAAAAGGAAAAAAAAGGGGCCGGGGCAGGA A G G G G A A A A A A G GCCGGGGAAAAAAAAGGGGAAAA G GAAAG GA A G G G G G G A A A A A A A A A A C C C CAAAAAAGGAACC G GAAG GAA A ACCAAGGAAGGGGGGAACCGGGGAAAAAAAAGGAAAAAAGET TGGCCAAGGGGAAAAGGAAGGGGAAGGGGGGAACCGG
C C G G G G A A G G A A A A A A G G G G G G A A A A A A A A G GAA A C A A G G G GAACCCCAAGGCAACGGGAAAGGGGAAGGAAGGGGAAAAAGG
 TAAGGGGAAGACAAAGCAAAGAAAAGAAGGACCGGAAAAAAG GAAAAAAGGGGGGAAAAAAAAAAAAAGCAAAGGACGAGGACC A GAAA A G A A A G G GAGGAAAAAAAGGGGGGAACCAAAAGACAA A A A A A G G A A A A GAGGGAGAGGGAAGAAAGAAGGGAGGAAAAG
 C A G G G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A $\mathcal{A} A A G G G G G$ G G G G GAGAAGGCCAAAAAAAAGGAGGGAGCCGGAGAGAGCAG

GAAGGGGGGAAAAGAAGGCGGAAGAAAAGCCGGGGGGGAAAG A A A G G G G G G G G G G G G A G A A A C G A C C G GAACA A GCC G G G G C C T TGGGGAAAGGGGGGAGGGAACAAGGAGGGGGAGAAGAAAGGC CAA A G GAGGGGGAAGGAAAAGAAAAAAGGGGAAACCGAAAAA AAAGGACCCGGGGAAGGGGCCAGGAAGGGAAAGGGGAAAAAA GACAGAAACGGGGGGAAGAAAAGAGAGAGAGAAGGAGAGA GA
 $A C C G G C A A G G G A A A A A G G G A G A G C C A A A C G G A G A G A G G A A A A$ GAGGGGAGAGAGGGGAAGGACGGCCAAAAAGAAGAAGCAACAA AGGACGAGGGGGGAAAAAGAGGGGACCAGAACCAGGGAGAGC C CAAACCAGCACCCAAGAAAGGACCGGGGGGAAAAGGAAACAA AAACCGGCCGGCCACCCAGCAGGAGGGAAGAGGAAAAAAAAG AAAGACAGGAGCCAAAGCCCAGGAAAGGGAGGGGGAAAAAAA $A C C G A A A G A G A A G G A G A G G G G G G A A G G G G A A C A A A G A G A G A A$ A G GAA A GAAAAAGAGGAAGGGCAAAGGAAGAGGAGGGGAAAA $A C C A T A G G G G A A A G G A A A G A G G G A C T A A A G G A G A C C C A A G B A$ AAACCGGGACCAAGGGGGGAAGAGAGGGGAAGGGGAAAGGBA GAGAAACAAAAGAGGAGCAGAGACCGGGACCAAGGAAAGGGG A G G GAGGAGGGGGGGAGGGAAAAGGCAAGGGAACACAAAGAA AAAGGGGAACCAGAGAGAAGGAAAGCCGGAGAGAGAGAAACB AAGGGGAGAAAAAAAAGAGAGGACCGGAACCAAGGAAGAAAG
 G G A A G G G A G A C G G G GCCAAGGTTGGGAGGAGGGAACAAAGAA G A A A A A A G GAGCCAAAAAAGGGGCCAGAACCAAAAAAGGGGG A G G G G A A C A G G G G G G G A A A C A A A G G G G A G G G G G G G A A A A G G A
 G GAGGCCGGGGCCGGGGAATTAAAAGGAAGGAGGGAGAAAAG A G G G G C A G G G G A A G A G G G G G A A C A G G A G A A G G A A G G G A G A G A G GAGGGGAAGGCCAAGAGGAAAAGGAAAAGGAAGGGAGGGGG GAACAAAGAAGAGAATACCAGATAGACCAGGGGAAGGGAAAA $A C C G A A A A A A G A A A A A G C C G A A A A A A A G G G G G G A A G A C A G G A$ A G GAA A A A A A GAGGGGGAAGGAAAAAGAGAGAGAGGGGGCCG GAAGACCGGAGAAGAAGAGCAAAAGGAGAGGAACCAAACACC C G G G G G G A A G G A A A A C C A A G G G A A A G GAAAAGGATAAGAGCT TGAAGAAAAAAAAACCCGGAAAAAGCAGGAAAAAAAACCGGA AA GAAAAGGCCGGAAAACCAAACGACCGGAGGGCAGAGGGAA A GAGAGGAGGGGAGAGAAGAAGGAGAAAGGGCAAAAGAGCAA $G C C A G A A G G G A A G G A A A G G G G A A A A A G C A G G G A A C A A G A A G A$ GACGGAGCCGAAACCGACCGGGGAAGGAAAACCAAAGAGAGA C G G A G A A A G G A G G C A A GAGGAGAGAGGAAGGGGAAA G G G G A A G A GCCAAGCAGAGAGCCTTGGAAAACACGCCAACAGGGAGAAAA GAAA $A$ A $A C A A A A A G G A A A G A A A C A G G G G G G G A A A G G A A A G G G$ G G G GAAAGGAAAAGGGGAGCCCCAAGGCAAAGGAGCAGAAGA G G G A A GACCGAGGCAAAAGGGTACAGAGAGAGCCCGAACAAA A A A A C A A A GAA A GAACCAAAGGGAAAGACAGACAAAAGBCAC C GACACCGAAGGCGAGCAAGGAAAAAGAAGGGAGAGGGGGGG GAACAGGGGAAAAGACAAGGAAGACGCCAGGAAGAGAAAGGA ACCACAAAAAAGACCCCGGAAGGCCGGCCCAAGAAGAAAAGA AAC C A A G G GAAAAAAGGAAGGGGAAAAAGAAGAGGAGAAACA C G A G G A A A A G G A A A $\mathcal{A} G G G A G G G G G G G G A A G G G G A A A G A G G B A$ G G G A G G G G A G G A A G G G A G G G A A A G G A A G A G G G G G G G G A A A G $G$ A A C A A CA G GCAAAAAGGGGAAGGGGGGAAGGAAGGAAA G G GAA A G G G A A A G G G A G G G G G G G G G G A A G G C A G G T T G G G G C C G G G G G A G G GAGGGGGGGGATAAAGAAAGAAAGGGAGCCAAGGGGAAA
 A GAGAGGAGACAAAGACAGAAAGGGGAAAGGGGCCGAAGGGA C CACGGAAGCCAGGAAGCAAAAAGAAAAAAAACGAGAAGAGG $G G G A A A G A G G G G G A A G G C C A A C A A G G G A A A G A G G G C A G A G G A$ AAACGAGCAGAAGGAAAGACCGGAGAAAGGGCAGGAAAAGGA

A A ACCGGAAACAAGGAAAACCAAGCAGAAAAGGAAAACCCCA C GAGGAAAAAAAAAGGGAGGAGGGAACAAAAGGCCGAAAA G G $A$ GAAGGACAAGGAGGGGAAGAAGGGGAGGGAAGGGAAGGAAAA AA $\operatorname{A} A A G G G G G A A G G G A A A A A A A G G G C A A G G A A A G G A G G A A G G$ G GACCGGGGGGAAAAACAAGGAAGGCAGAGGGGAGCCAAAGAA G GAGGGGGAAACCGAACGGAAAAGGGGCAGGAGAAAGAAACB G G G G G G G G G G G G G A A G G A A G G C A G A G G GAA A GAAA G GAAC C A CAGGGGAGGAGAGAAAGAGGGGAGGAGAGCACCGGAACAAGAG GCCGGCCAGACGAGACCGGAGGGAAAAGGCCAAGGGGAGAAA AAAGGAAAAAAAGAAAAAACCGGGAGGACAGAAAAAAAGAAA
 A A G A A G G G GCCAA $\mathcal{A} G C \subset A A G G G G G A G A A A C C A A A G A G G G G G G$ A G G G G A A A A C C A G C C G G A G G A A G G G A G A G G G G G C C A G G G G G A A G G A A C A G A G A A A G G G G G G G G G G C A GAGGCCGGAAAAA G C C A A A G G A C G G A G G G G G A A G G G G G G G G G G G G G G A A G G G A G G G G A G G G G G G GAGGAAACCAGCCGAGGAAGGGGCCAAAAGATAAAAAA A A A G A A G G G G G G G A GAGGAAGGAGGGGAAAAAGGAAACAGAA
 AAGGGAAAAAAGGGGCAGAGGGGCCAGCCAGGGAGAAAAGGC C G GAA A G G GAAACAAGGGGAGAAAACAGACAGGGAAAAAAAC AAAGGGGGGGGAAAGAAAACCGGAAGGGGAAAACAAAAC GAA A A A A A G G G G GAGGAAAGGGCAAAAGGGAGGAAAAAAAAAGGA G G A A A C CAGGGAGCCATAGAATTCCGAAAAGAGGAGGCAA GA CA $A$ A A $\operatorname{A} G A G G A G A G G G A A A G G T T A G A A G G A A A A G G G G A A A A A$ A A A A G G G G A A A G G G G A A A A G G G G A A CAAC GAA A A A A A G G G G A
 A A G G GAGAGGGAACCGGGGAAAAAAAAGGGGGAGGCCAAAGC C C CAAACAAGGCAGGGAGGCCCCAAAAAAAAAAGAGGAGCAA GAGGGGGAAAACCAAGCCCAAGGGGAAAAAAGGAAGAAGGGG G GAGGGAGAGGAAATGGACGAAAAGCAGGAAAAAAGGGGCCG GAAAGCACAGGAAAAGGCCCCGAACAGAAGGAAGBAACACCC CAGTTTTGGAAAAGGAGGAAGGGAAAAGGGGAAAACCGAAAG AACGGAAGAAAAAGGAGAAGGGAAAAACCGGAACCAAAAAAC AAACGGGAAGGAGAGAAAAGGGGCAGAAGGGCACCGAAAGAG A GAGGAAAACGAAAAGAGGGGAAGGAGGGAGAAACGGAAAAA GAGGGGAGACCAAGGGGCCAATAGAGGGGGACAAAAGGGGGA A A G G G A A A A G G A A G G G G G G A A A A $\mathcal{A} G G G G G A A G G A A G G G G G G A$
 A G G G A A G A A C C C C G G G A G G A A A A $\mathcal{A} G G G G G G G A G A G A A A A G G G$ GAACAGAAGGGGACCGGGGGGCAAAAGAAAGAAAGAAAAAAG G G G A G G G G G G G G G G A A A G G A G A A A C GAGAGGGGAGCCAA A A G GAAACAACCAAAAGGAAAAGAGGGGAGAAGAGGCCAGGAAAA G G G G GA $\operatorname{l}$ A $\operatorname{A} A \mathrm{~A}$ GAAAAAAGAAGGAAGGGAAAAAAAAAAAAAAA G G GCCAAAAGGAGAAGAAGTTAAGCAGGGCCGAGGACAGGAA $A G A G A G A A A A G A A G G G G G G A A A A A G G G G G G G A C A G C C A A A G G$ A G GAGAACAGAGGCAAAAAGGAGCCAAGAAGAAGAAAAAAAA G G G A A G G A G G G C C A A G G G G G G A A C C G G G G G G G G G G A A G G G G G G G G G G G G G GAACCAAGGAAAAAAGGGGAGGAGGAAAACAAC G AAACCGGAAGGCCCCGGAAAAAACCAAAGGAGGGGAG
G G G G A C A A G A A G G G A G G A G GCCCAGACAGGACGGAACAA GC C G GAGGACAGACCGGGGAAGGCCAGAAGAGGCAAGAAGAGAA
 ACAGGGGAAAGGAGAGGATAAAAAAGGACGGGGAGAAAAGGG GAACAGGGGGAAACCGAGGAGGGAAAACAGGGAGAAAAGTTG G G G G A G G A GACAGAAAAAAAGCCGGCCCCCCGAGAGGGAAAG
 A GAA A A G A A A A GAGGGGAAAGATGGGGGGAGAAAAGAAACAA
 GAGAAAAAGCAAGGGGGAGGAAGAAAAAAGGAACCAAGAAAA

AAAAAGCGGAAGGGGAAAAGGAAGGGGCCGAGGAAAAGGGGA A G G A A A A A A GAGGAAAAAAGGCCGGGGGGAAGAAGCGACAGA G G G A A G G G G G G G A G GAACAC A CAAAAGAAGCCAACCACCCGGG G G G GAGGAACCGAAGGGGGAGTTGACGAAGGCCAAAACAAAG GAGAGAGGAGAAGAGAAAAAGGGGAGGGGAAGGGAAAAAAAA A G GCAGGAAAGGGAAGGAAGAGAGGGACAGGCAGACCGGGGG $G C C C C A G G G G G G G A C A G G G G A G G A A A G G G A A A G G G C C G A A C A$ GACGGAAACGGGGAGCCAAGGGGCCAAAGAAGGAGGGGATTA A A A G A G G C C G G A G G G C C G G A G G G C C G G C A G G G A G A A G G A C C G GAAAAAGAGAGAAAAGGGGAGAGAAGCAGGAGAAGGGAGGGG G G GAA A A A A GAGAGGAACCAAGGCAAAAAGGAGGGGAAAAAG GAGGGGAAGGGCCGGGAATAAGAAAAAAAAGAACCGGCAGAA A A A A A A A A GAGGGCAAAGGGAAAAGCCAAGGGAAAAGACGAA GAAAAACGGAGAACAAAAGGAGCGCCAGGCAGGACAAAGGGA AAAAAAGACAAAGGAAAGGAACAGGAAGGAGAGAGAAGAGGC CAAGGGGACAAGACCGGGAAAGGGAGAAGCCGGGGAGGAAAA GACGGGAAAGGGGGAGAGGACAGAAAACCAAGGGGAGGGGAA A GCCAAGGGCCCCAACCGGAAAAAAAAGGGGGGGGGGAAGGG G G G A A A A A A G G G G G GAAAAACGAAAAACGGGAAAAGGGAAA G GAAAAAGAAAAGAACAAAAGGGGGGGAGAAAAGGGGAGAAGA $C G G G G G G C C G G G G A G A A G G G G A A A T A G G A G G G G G G G G A A C C G$ G G G A A G G A A G GAGGACCGGGGGGAGAGAAAACCAAGAAAAAA
 TAAAGCCAGAAAGGGGGAAGAAAGGCAAGGGCCGAAAAAGGG
 A A A A CCCGAGGAGAGAAAACCCCAAGGCCGAGGTTAAAAGAG A GACCAGGAGGAACACACAAGAAAAGGAAAGAGAAAGAAAAG G G GACGGGGCCCAGAAAAAGGAAGGAAAGGAAGGAAGAAAAG GAGGGGGGGGGCAGGGGAAAAAGCAGGAGGAAAAAAGAGGGG
 A G A G A G A A A A A A A G G CA $A \operatorname{GCCC} C A A A G G G A G A A G G A G G G G G G A$ CAGAAAAACGGGGGGAAAACGGGCCAGGGAAGGAGAAGGGGG
 A G G A G A G A A A C G A A A G A A A GAA $A$ A A G G GC C A A C G A GA G G G G G G G G G G G G G A A G A GAA A GAA $A \operatorname{ACC} C A A G G A G G A A G G A A G G C A A A A$ A G G G G A A G GCCCCAAAAAAAGAGAACCAACCGGGGAAGGGGG AAAGGGAGGGACAAAGACCGAACGGGAAAAAAGAGGAAAGGA AAAGGGAAAAAAAAAGGGGGGGGAGCAAGAATTGAGAAAACAA G G G A G A A G G A A G A G G G A C C A A A A G GAA $A \operatorname{AGGGGGA} G G G C A G A A$ C GAGGACGAAAGGAAGGGAAAAGGGAGCAAAAAAAGGGAGAA GAGACGAGGGGGGAAAGGGGAGGAGCCAGGGCCGAAAAAAGA $A G G G G A A C C G A G G A G G A C A G G G G G G A A A A G A A G$
$113120000-9 \mathrm{G}$ - 0 G G GAGCCGGAGGGGGAAGGGGAAAAAAGGAGC AAAAGGACCCCCCAAGGGGGGCAGGAAGGAAGGCCAAAAGAA $A \subset C A A A A G G G G A A A A G G A A C C G G G G G A A G A C A G G G C C G G G G G$
 ACAAAGAAAGGAAGGCCAGAGCCGGGGAAAAGAAAGGGAGAA $A C C A A C C G G C C A A G G A A A A G G A G G A A A G G G G G G C C G G C C G G G$ A G G A G G A G G G G G G G G G G G G G G G A A A G G G G C C A A A T A G G A A G G A G G G A GAA $A \operatorname{GGC} C A G A A A A A A A G A A C C A G G G G C A G G C A A G A$ A G A A A G A A A A G G G G GAGAAGGGGAAGGAAGGACAGAGAGAGG $G C C G G G G A A A C G G G A A A A A G A G G A A G G G G C C G A G C A A A A A A G$ G GAGGAACCAGAACCACGGGGAAGGAGAAGGCAAAAGTXGAA AAAAGAGGGAAAACCAAGGAAAAAACATTCCAGAGACGGGGC AAAAGCAAGAAAGGAGACAAAGAGAAAAGAGAAGACCAGCAA A A G A A A G A A A G G A A G G G C A A A G G G GAC G G A G A G G A A A A C G G A AAAAAACGACCGGCCGGCAGGGAAAAAGGAAAAGAAGGGGGG $G G G G A G A G G G A A A C C A A A A G G G G G G G G C C G G G A G G A A A A A A A$ G G GAGGACAGGAAAAGGGGGGAACCAAGGAAAAAAGGGGCAA

A G G G G G G G GCACC $C \subset G G G G G G G G G G G A G G A G A G C A A G A A G A A$ A A A G A G G A A G G A A G G G GCCAA G G G A A G G G C C G G A T G G G G A A G GGGAAAACCGAGAAACCGAGAAGGAAAAAGGCCBAAAGGAGA G G G GAAAAGGAGACCCCGAGGAAAGAACCGGGGAAGGGGCCA ACCAAGGCCGGAACAAAGGGAAAAAGAACAGAGAAAAAAAAC
 C G A G G A A A A G A G G G GCCAAGGGGCACC GAGATAACAAGACGG $A C C A A A A A A G G G G A A G G G G G G A A A G G G A A G G G A G G G A A A G G C$ C G A A G A A G G A T C A G A G G A GAGCACAACAAAAAA GAACAA G G G GAAGGAAAGGAAACCGGAAAAGGAGCCGGAAGAACGAGBAAA G G GAA $A \operatorname{G} G \mathrm{G} G A C C G A A A A A A A C C G G C C A A A G G A A G A A G G G G G$ A A G G G G G G GAAA A A GAACCGGCACCCAAGAGAAAAGAAAGGC A A ACCCCAAAAAAAAGGAAGGGAGGGACCGAAAACAGGGGGG GAAAAAAGGTAGACCGAGGGGGAGGGAAAGGAAAGGBAGGGA AAAGGAAAAAGCCGAAAAAAGAAAGGGGGAAAAGGCAAAGGG GAAGAAACAGAAAGGGGAATACCGGGGGGCCAAAAGAAAGAA A G G G G A A G G G G A A G G A GCA $\mathcal{A} G A G A G C C A T G G C A A A A G G A G A C$ A A A A G G G A A A A A A GA GAGGAGAAAGAAAAGGTAGGGGGAGAA AAAAAGAAAACAAAAAGGGAAGAGACCAGAGAAAAACAGGGG GAACGGGCCAGCCGGGGCGACAGAGCAAGAAGGACAGCAAAA AAAACACGGAAGAAAGGGGGAGGGAAAGGAAAGGGGGGACAG GAGAGGGATAAGGGGGGGAGAGGAAGGGAAAGGAAGACAAAG GAATAAAGGGAAGGGAAAAAAAGAGGGGGAAAGGGAAGAGGA GAGGGGGAAGGAAAAAAGGAAAAGAGGGACCGGGCGBAAGAG G G G A A G G G G G G G G G G A A C C G G G GAGAAAGGGAAAA GAAACA A
 A AACCCAAGAAGGAACCAAGGGGGGGGCCAAGGGGGGAGAAA AAAACAAGGGGAGAAGGAGGAAACCAAAGGGACCCGAGAAAA A A A A A G G A TCA $\mathrm{A} A \mathrm{~A} A \mathrm{~A}$ GCCGGGGGACCAAAAGAGGCCAGGAG A G G GAGGGGGGGGAAAAGGGGAAAAACGGAGAAAAGACAAGG G G G A G A G G G A G G A G A G G A G A A A A GAGGCCAACCGACCAACAA AAAGAAAAAGGCCGAGAGAGGGGAAGGGAAAAAACAAAAAGG
 A G G A A A A G GAACCAGGAGGAAACGGGGGGAAGGCCAGGAAAG G G GCAAGCCAAAGAAAAAAAAAAAAGAAAAAGGGAGAACGBA A G G G G A A A A A A A A A C G A C C G GAGGGCCACAAGAAGCCAAGAG GAAGGGAAAAACCGGCCGAAAAAAAAAAAAAGGAACAAAAAG G GAGGGAGGAAAAGGGAGACCAAGGGGGAGGAAAAGGGAAC G G G G A A C C A A A A C C C A A G GACC GAGACCACAGCC GA G G G G G G A G G A A A A A A A A A A A G G CAA G G G C C G G A A A G GAAA GA G G A A G G G GAAGGGGCCAACCCCGGAAGGAAGGAAGGGGGGGGAAGAAAG G G G A A A A A A A A G G A A G G A A A A C C G GAA G GAAAAAA G G C C G G A A G GAACCGGAAAAAAAAGGAAGGAAGGGGGGGGCCGGGGCCG GAAGGAAGGGGAAAAAAAAGGGGCCAAGGAAAAAACCCCGGG GAA A G G G G G G G A A A A A A A A A A A A A A A G GAA A G G GAA $\mathcal{A} G G G G G G$ G A A A A A A G G A A G G A A GGCCTTGGTTAAAAAAAAAAAAAACCG
 G GAAGCAAGGAGGAAAGAGACCAAGAAGGGGCCGGAGAGAAA GAAAAGGGGTTAAAAGGAAAAGGAGAGGGGGAGAAAAA GAAA G GAAGAAGGCCAACCGAGAAAAAAGGGCCGGCGAAAAGAAAC

 G A C A A A A G G A A G G G G A A A A A A C C A A A A G G A G G A A GCC G G G G G A G G G GAAGAGAGAAAAAAAAAAACCGGAAAGGGAGGAGAAGAC A G G G A A G A A A A A A A A G GAGGACCGGGGCAAGGAGGCCCCGGG GCGGAAAAAAAGGGGGGGGTAGAGGCCBAAAAAGGGGGAGAB GAAAAAGGGAGGAAGAGGGCCAGGGGGAAGGCCAACCCXGGA GAATTGGGGAAGGGGCCGAAAGAAAAGAGGGAAAGAGGGGGG G G GAAAAAGGAAGAAGGAAGGGAGGAAAACAGAGGGAAGAGA

A A G G G A G A A GAGGGAGAAAAGGGAAGAGACCGGGGAAGAAAA A G G G G G G A A G G G GCC G G G G A A G G A A A A G G A A C C A A C C A A G G G GAGGAGGGGAGAGAACAAGGGAAAGAGGGGGAAGAAAGGGGC
 GAGGGAGCGAAAAAAGACCAAACAGGGAAAAAAAAAAGGCCA A G G G A GAGGGGAAGGGGAAAAGGGAAAGAAAAAGGAAGGGGA A GAGGGGGGAAAGAGGAGAAAAAAAAAAAGGGGGGGAAAGAA A G G G GCCGGGGGGAGGAACAAAGGAGGGAGAAGGGAAAAGGA TAAAGACGGAGATAAAGAACCTTGGGGAAGGAAAAAAAGBGA A G G G G G G G G G G G GAAAAAAGGCCCAAAGAAGGAAAGGGAAAG GATGAAAACGGGGCATTAGAAAGACAAGGAAGGGGGGGACAA A G G G G A A A A G G TAGGAACCAGAAAAAGGAGAGAGAGGAAAAC CAAAAGGAAAAAAGGGGAAGGAAAAAAGAACAGTTGGGAAGA
 CAACCGGCCAAGGGGGGAAAAGAAAGGACAGCCAGCAAAAAG GAAGGGGAAAGGGAAGGTTCCAAGGTAGAAACAAGAAAAAGAA A G GAAAAAAAAAAGGAACCAAAAGGAAAAGGAAAAAAAAAAG GAACCGGGGGGGGGGGGGGGGCCCCGGAAGGGGGGCCAAAAA A G G G G A A A A A A G G A A A A A A A A G G A A A A GGGGGGAAAAAAG G C $C C C A A A A G G G G G G C C C C G G A A G G C C C C C C G G A A G G A A G A A A G$ GAACCAAGGGGGGAAGGTTCCGGGGAAAAAACCAACAAAAAG GAAGGAACCAACCGGAAAAAAAAGGAACCCCAAGGAAAAGAA AAAAAGGAAGGAACCGGAAGGAAGGAAAAAAAAGGGGGAAAAA A $G \operatorname{GAA} A \mathrm{~A} G \mathrm{G} C \mathrm{C}$ CAAAAGGGGAACCAAAAGGGGGGGGGGAAAAC C G GCC G G G G A A A A G G G G G G A A G G G GAAAAAAAGGCCGAAAAAA AGGAAGGAAAAAAGAGAAGGGAAAAGGAGAAAGACAAACAAA $A C C C C G A A G A G G G C C G G G G G G A A C C G G G A A G G G G G G G G G G G A$ A G G G G A A A GAC G GAAAAGGAAAAGGACGGCCAAAAAGCAGAC C G G T A A G A A G G G G G A G A G G G G A A A C A GAAAAC A A G G G GAA G A G GAACAAGGAAAGGGAAGGGGGGAAGGCCAGAGAAGAACBAA GAAGGGGGGAACCGAAGGAGGCCGGAAGGACGGAGGAGGGAA AAAGGAAAGGGCCGGCCGGCCAAAAGAGACCGAGACAGAAAC CAAGGAAGGCCGGCAGGGGAACCAAAGAGAAACGGGGAGGGG G G G GAGGAGGGAAGGCAACGGGGGGAAAGAAAAGAAGGAAAA A A A A A A G A A A G G A A A G GA $\mathcal{A} G G G G C C T T G G G G A A G A G G G G A G G$ GAACCAAAAAGTACAAAGGGGAACCCCCCCCAAAAGGCCGGG GAACCAAGGGGGGAAAAGGAAGGCCAAAACCGGGGGGGAAAC $C \subset C G G A A A A A A C C A A A A G G A A A A A A A A G G A A C C G G A A G G G G A$

 GAGAAACAGGGCCAGGGGGGGAAAAGGAAGGGGGGAGGAAAG GGGCCCAAAAAAAAAAAAAAGAAACGGAGAAAAAAGG
AAAAAAGGGAGAGGGAGAAACAAAAAGAGGCGGAAGAAAAG GCCAAAGGAGGCCAGGGGGAAAAGGGGGAAGACCAACAGAGC A A GACGGGGAGAGGAGGAAAGGGACAGAAGGAGAGAAAAGGG GAAGGAAGGGGCCGGGACAGAAAGGACAAAAGGAAAACCGGG G G G G G G G A G G G A G G GAA A G G GACGGAC G G CAAC G G G G G G C C A AAGAGGGAAAAAGCAGGAAGGAAGGAGAAAAGGCCGGCAAAG $G C C A A A A G G G A G G G G G A G G A G A A A A A G A G A G C G A G G G A A G G G$ GCGCCGAGGGGAACCATCAGAATAGAAATAAGAGGGAAACAG GAAGGGGAGAAGGAAAAGGGGAAGGGACAAGAAGGCCGGGGG G GAAAGGGGAGGGGGCCAGGAGGAAAAGGAAGGAGGAACAAA GCAAGAGAAACGAGGGAAGCCGGAAAAGAGGAAAAGGCAAAA AAAGAAAAAGAAGAGGGAACAGGCAGAAAGGGGGGGAAACCG GAGACGAAGGGGGGAGAAAGGAGGGGACAGAGGGGAGGAGAA GAAAAGAAGAGAAGGACAGCCGGAGAAAGAGCCAGAGGAGGA AA $A G A G G A A G G A G G G C C G A A G A G A G G G A A A G G A A A G A G A A G A$ A A A G GCCTTACACGAGAAGAAGGGGGAACAAAAGGATAAGGG GAAAGAGAAGAAAAGGAGAGAAGAAAGCAGAGGAGGACAGGA

A A A A A A A G GAAAGAAGGAGCCGGGACCGGAGGAAAAAGACCA A GACCCCAAGAAAAAAAAAAAGGAAGGGGAAAGGGGGGAAGA A G GAGGGAGAGCCGGGGGGGAAGAGCGAAGGAAAAAAAGAAA A GAGGAAAAGAGGGGCAAAAAGGAAAAAGGAAAAAGGGAAGA G GAGGAAAGAAAAAAGAAGGGGCAAAGGAGAAGGAAAAAGAA GAAA A $A \operatorname{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A A A A A A G A A G G G A A G G A A C A G G G G G A A A C C G$ G G G A A C C G G G G T T A A G G A A G G G A A A G G G G G G A A G G A G G G A A G GAGAGAAAGGGACGACCAAAGGAACCACAAGAACCCCAACAA
 G GAAGGGCCGGAGGAAGGGAAAAAGGGGGAAAGACAGGAGAA A G G G G A A A GAA $A \operatorname{G} G A A A G G G G A A G A G G A G G A G G G G A G A A A G C$ CAAAACCGAAAGGGACAAAACAAGGAAGGAGGGAGGGGGGGG
 A G GAA A GCCAAGGCCCCGGGGAGGGAAAAGGAAAAGAGACAC CAAAAAAAAAACCGGAAGGGGGGAAGGAAGGGGAAAAAAGEC $C \subset C G G G G A A A A G G A G A A G G G G A G G G G G C C A G A A A A A A A A G G A$ A A A G G A GAAACATGGCCCCGGGACCAACAGACAAGEAAATAG G G A A G G A G A A G G G A A G A G G G G A G A A A A A A G G G G C C G G G G A G G $G C A G A C C G G G G G G G G G G A A G G A A A G A G A C G G G G A A A A A A A A G$
 A A A A A A GAAAAAAAAAAGGGGAAGCCCGGAAGGAAAAGGAAA GCCGGGGAAATAGGGGAACAGGAGGCCACGGGAGGCCGAAAG AA G G A A A C CAA A G GAGACAGGAAAAGAGATAAAAA GAGGCCG ACCGGAACCGACCGAAAGGCCGAGGGGCCAGGGGGGACAGEC A A A G G A A A GAA G GCC G A A A A A G G A GCACCCCGGCCCCACAGC A G G A A A A A A G G T T GAGGAGCCGGCAGAGGAAAAGAAAA GAGG AAAGGAAAAGGAAAAGGATGGAAGAAGCCAAGGAAAAAAGAA A GAGGAAGGAAGGAAAGGAAGAAAGCCGGGGAAAAAGGAAGA $A C A G A A A G G A G G G A G G A G A C C A C A A C A A G G G A A G G A A A A G G G$ GAAGGAAAAGAAACAGGGAAAAAAAAGAAAAAAAAAAGAAAA A A A G G G A A A G A G A A GAGGGGGGAAGAAGGACGAGGGGGAAA G GACAGAAGGAAACCCGGAGAAGGAAAACAAAGGAACCGGGGG G G GAGTTGGACGGAAGAGGGAGGGAGAAAGGAGAAAAAAAAA AAAGGCCCCGGAAGGGGCCGGGAAGACGGAAAAGGGGCAAAA GAAGGCCAAGGAAAGAGCAAAAGGAAAGAAAGGCAGGGAAAA GAACCGGGGGGAGACAAGGAGGAAAAGACGAGGACAAGAGAA A G GAACCTTGGGGCCAAGGGGAGAAGGGGGGGAAGAAAAGGG GCCGGGAGGAGGGGAAAGGTAAGGAAAAAGGGGAAAAGAAGA A A A G A G A A A A G A A A GAGGGGGAAAAAAGGGAAGGA GAAA G GA A
 CAGACAGAAGGGAGAGGAAAAAAAGTTAAAGCCAAAAAAAAA A A A A C A A G G A A A C A A A G A A A A A G G G G GC C A A G GCCTTCAA G G AAGGGAAAAGACGACGGGGAAAAGGGAAAGAAAAGAAA GAGA A G G G G A A G G G G A A G GAACCAGAAAACCGAAAGGGAAGAAGGG G G GCCATAGAAGGGAACGGAGAAGGGGGGAAGAABAGBAAAA A A A G G G G G GAGAAAAAAGGGGGAAACCGGAAAAGGGGAAAAA $A C C C C A A G G G G G G A G G G A G C A G G G G G G G A A A G A G G A G G G G B A$ A GACCAAAAACAAACGGAAAGAAAAAGAAGACCGBAAAAAGC C CAGGAAGAGGACGGAGGAGGAATAAGAAAAGGAACCAAGAA AAAGGGGAAGGAAAAGGAAGGAGAAAGCCAAAGGGAGAAAAC CAGAGAAGAGAAACAAACCGGGGAAGGTTAAACACAAAGAAA CAAGAGGAGGGGGGAGAAATACAGAAGAAGGGGAGGAAAGGA A G G A A GAGACCAGCACAGGGAAGAAAGAAGGAGGGAAAAGGG G G G G G G GAA $A \operatorname{GA} A A G G A A G C A A A A A A A A G G G A G A A G A G A A A A$ G G A A A G G G G A G G G G G A A G G A A G G G G G G G G A A G G G G A A G G A A A A A A A A C A G A A A A G G GA $A \operatorname{GGGGGAAAAAAGGAAGGGGGGGGGGA}$ TGGAATTGGAGGGAAGGAAGAAAGAGAAGACAAAAGGGGCCA AAAAGCACCAACAGAATGAAAAAATTACCAGAAAAGAAGAAG GAAAAAAAGGGAACCGGAAACGGGGCCAGTACCGGAACAGGA

G G GAAAAAAGAGGAAACGAAAAACCAAGAAAAAGGAAGAAGG GAGAACCGGAAAAAAGGGGAAAAAAAAAAGGGGGGGAAACAG G G G G G G G A A A A G GAACAAAGGGGGGGGGGAAAAGGGAAAAAG GAAAAGGGGAAAAAAAAAAGGAACCGGAAAACCAAGGTTCCA $A C C G G C C A A A A G G G G A A A A A A A A G G G G G G A A A A A A A A G G G G G$ G G G A A G G G G G G G G A A A A G G A A A A A A G GAAGGGGAAC CAATXA $A C C G G C C G G G G A A A A A A A A A A G G A A T T G G A A A A G G A A G G G G A$ AAACCAAGGAAGGAAGGCCCAAGAAAACCAGGGGGCAACGGG GA $\operatorname{G} A A C C G G G A G G A A T A G G G G G G A A A A G G G A A G A G G A G G G G G$ GAGAGGGAGAAGGTAAAGGAAGGGGAAAACCAAAGAGACGGT T G GAGGGACGGGGGACCGAACCAGAAGCACACCCCTAAGTAT T G G G A A A A G A A A A A A A G A A G G A G G G C C C C A A A A GAA A A G G G G G G GAGGAAGAAGGAAGAAACCAAAAGGAAGGAAGGCCGAGAA A G GAA A A A A CA $A \operatorname{A} C A G A C C A A G G G G G G A A G G A A G G G G A G G A A$ A G G G GCCAAGGTTGGGAGAAAGACCAGAGAGAGAAGGGAGAC A GACACAAGAGGGGGCAGAGGAAAACCAAACGGTTAGAAAGC A G GAAAAAAGGAACCAAAAGGGGGGAAAAAAGGA GAA GAGAA A G G G A G G G GCC C G G G G A G G GAGACCACACAAAATTGGAAGAA AAAGGAAAAGGAAAGAGGACCGGGGGGGGAAAACAAGAAAAA GAGCAAAGGAAGGAAAGAAAACCCCGGGGGGGGAAGAAACAA AAAAGAGACAAAAGGCACCAAAAACAGGGCCGGCCCAAACAG GAGCCAGAGGGGAAGACGAAGCCGGAGGGAGGGAGGAGAGAG GCCGAAGGGAAGGAGCCAGAAAACCAGTAGAACGGCCGAGAG A G G A A G A A A $\mathcal{A} G G G G G G G G G A C A G G G A A A A A A G A G A A A A A G B A$ $G C A A A G A A G A C A G A G G A G G A A A G G G G G A A G G C C A G A G C A C A G$ A GA $A \operatorname{GA} A \operatorname{A} G A A G A A G C C G G G G G G G G A A G G A G A G A G A G G A G G G$ A G G G GAGGGGCAGGGGGAAGGAAAAAAACAAAAAGGGCCGGA GAAGGAACCTTAAAAAACCGGGGAAAAGAGAGGCAAAAAGAA AAAGAAACCCAAACAAAAGGAGGAAAAGGGACCACGAAGGAAA AGGCCAAGGGAAACCGGAAGGCCGGAAAAAAGGCCAAAAGGA A A A A A A A A A A A C C G G C C A A A A G G C C G G A A A G G G G A G G G G A G G AAGAGAAAGCCAAGGAAGGGAAAAAAAGACCAAGGAAAGACG GAGACAAGGCGGGGGGAAGACAGAGAAAGGAGCGAACAAACAA A A A GAA A $A$ A $A G G G A A C C G G A A A A C A G G A A G G G G G G A T A A A A A$ ACCCCGGCCGGAAGAAACCAAAAGGAAAAGGAAAAAAAAGAA A A G G G A T A A G A A A A G G A G A G G G G A A A A G G G G A A G G C C A G G A G G G G G G A G G GAACC G G G A A C G GCCGGAAGGAAGGCC G GAA G G A AACGGAAGAGGAGAGGGGGAAAAAGCCGGGGAAGGAAAAAAG A G A G A A G G A A T A A A A G A A A G G G G G G A GAAAAACTTAAGACCG GAAAAAAAAAAGAAGAGACCCGGATAGAAAAAAAAGBAGCCA GAGGGGGCGAGGGGCGGGAGGGGGGGGGAAAGGAACCAAAAT TAAAAAAAAAAGGAAAGAAAAGGGGAAAGAAATGAAA
AAAAGGAAAACCGGAGGAGAGGAGGGGGGACCGGGGGGGGG GAGACGGGGCCGAACGAAGGGCAGGAGAACACAGAGGGAAAG
 G G G ACCAAAAAAAAAAGACGGAGACAAAAAGACGGAAAATXG G G G G GAAGGAAAAGACCGGAAACAAGGAGGACGAGGACAAAT TAAAACCGGAAAGAAGAGGGACAAAAAAAGGAAAAGAAGAAG G G GAAAAGGAAAAGGAAGGGAAAGAAGGGGGGAAA GGGAGGG GAGCCAAGGGGAGAACACCGGGGACGGGAAGAGGAGGGGGGA A A A A A G G A A A A G G A A G G CAAGGAAGACGGGGGGATCAA GAA G
 $A G G A G C C G G C A A G A G G G A G A G A C A A G G G G A G A A G A G G G G G G G$ G GAGGAACAAGGGCCAAGGAAAAGAGAACGGAAAAGGAGCAG GAAGGAGACGGGGCCGGGGCCGAAGGGAAAGGAAAAGAAAAA A G G G A G G A A C A A G G G C C G G G G C A A G G G A A G G G G G G A A A A C C C
 GAGGGAAAGCCGGAAGGGGAAAAGGGAAAAGAGGAAAA GGGC CAAGGAAAGTAGAGGAGGGGGGGAAGGCCAAGAAATTAGGAA
 G G GAGGGAAGGGAAAACAGAGCGCCGGAACCAGAAGAAAAAG GAAAAAGACAAAAACGAGAGAAAGGAAATCCAAGGAAGAAAC CAGGGAAGAACAGGGGGGGCCAAGGGGGGAGAAAAAAGAGGC $C T T G A A G G A A G G G G G G G G G G G A G G G A A G G A A C C A A A A A G A A G$ A GAACCCGACAGGGGGAGAGGGGCAAAAACAAAAGAAAAAAA $A C C A A G G A A G A G G A G G A G C A A G G A A A G A G A G A G G G G A A A G A A$ A GAGAAAGGGGGAAGGAACGAGGGGACGGGGAGCCGAACAGA GAAGGGGACAAACGACCAAGAGAAGACAGGGGGGGCACAAAG $G C C C A A G G C A A A A G G A A G A A G A C A A G A G G A A A A C C G G G G G G G$

 CA $A$ A $G A A G G G G A A C A A G G A G A A A A G A G G G A A A A C C C C C C G G G$ A A A G A A A A G G G GA $A \operatorname{GA} A G A G G A G G C A A G A A A A G G G G G A C C G G G$ GACAGAGGGGGGGAAAGGAAAAGGAGAGGGGCAGAGAGGGGG GGGCCAAGGAAGGGGAGGAGAGGAGAAGAAGGAGAGAAAAAA AAAGGGGGAAAAAGAGAAAACAAGGGGGGGGAGAGAAAAAGC
 $G C C G A G A G A G A G A A G C C A G G A A A G G A G A C G G A G G A A A G A A A G$ G GAGACCAAGGGGAAAAGAGGGGACAAGAGGACGAGAAAAGB A GAAAAAGGCCAGAGGGGGAGAGGGGGGGCCGGAAAGAGAAG GAAGGAAGGGGGAGGAGGGCCAAAAAAAAAAAAGGGAGACAA AAAGGAAGGAAGGCGAAACACGGAAAAGGAAGGCCAAAAACA A G GAGGAAAGGACGGGGGAGAGGAAAGAAAGCCGGGAGAAAAA ACCGGGGAGAGAAGAAAGGTTGGAAAAGGAAAAAACCAAA GA AAAAGGGCCCCGGAAAAAGAAAGAGGGCAGGGACCAAAAAAA G GAGGAGAGGGAAAGGAGGAAAAGGAGAGAAGAGGGGGACAG
 GAGGGGGGGAGAGCCAGAGAAGGAGAAGGCCAGATGGGACCA AAAAAAAGGAAAAGGGAAGAAGGAAGAAGAAGAAACAAAAAG GAGAGAGGGAACAAAAGGAGGGGGAAGAGGGAGAGCCGGCCC C GAGAGAGGAGAAAGCAAGGGGGAAAAAAAAAGAGGGGACCA GAAAAAGGGAAGGGGCCAAAAGGGAAAAAAAAAAAAAAACCG
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 AAGGGCAGGAGAGGGAAGAAAAAAAAGAAAGGAAAGGGGGGA
 AGGGGGACAGACCACGGGAGGGGGGGAAAAACCATAAGGCCA $A G G G G G G A A A A G G A A G A A A A G A A G G G G G G A G A A A A A G G G G A G$ GAAGAGGGGGAAGGACAAAGGAAGGGGGGGGGGGGGAA$G A A G G$ GAATAAGAGGGGGAACCAAAGGGAAACGAAAGAACAGAGAAG GAAAAAAAAGGAAAAAAGGAAAACCGAGAAAAGAAGAAAAAA A G G G GAAAAGGAAGGAAAAAAGAAGCGCCGGGGAAAAAAGGA A G GAAAAAAAAAAAAAAAACAGGGGGGGGTTGGCCAACAGCAA CAAGAAAGGGGGGGGAGGACAAAGGGGAAGGAAGGCCCAAAA $A C C A A A A G G A G G A G G G A A A A G G G A A A G A G A G G G A G G G A A A A G$ G GAAAGATACCGGGAACGGAAAACCAAAAGGCCCCCCAACAA GAGAAAAAAAAGGAGGGACAAAAAAGGAAGGGAGAGAAAGBA A G GCCGGAAGGGGGAGCAGGGGGGAGGCAAAAAGGAAAAAGG A A G G G G G G A A G A G GAGAGAGGGAAAAGAACCAAGGAGGAAGA A A GCGAAGGGGGGCCGGGAAAGGGGGGAAAAGGCACCAAAAG GGGGGAAAAAGAGACGAGAGAAAAAAAAAAAAGCAAAAAAAA A G A G A A A A G G G A G G G G G G G A A G G G GAGGAGGGAGGCCAAG GA AGGAAAAAAAAAAAGGAAGGGAGAAGGGGAAAAGAAGAGAAA

G GAAGGAGGGGAGAGAGAAGACAAAGGAAGAGAAGGACAAGA G G GAAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G}$ GAAAGAAAAAATTGAAGCCAAABAGGGGGG GAACCAAGAAGCAGGAAGGCCAGACGAAGAGGGGGGGAAAAA A G GAGCCAAAAAAAGAAGGGGCAGGAAAAGACAACAAGGGGG GAAAAATGGAAGGAAAGGGAAGGAGAGGAGGGGGGCCCAGAA G G G A A G G G G A G G G G A G G A A A A G G G G A GAAA A A A C C G A A G G A C A G G A A A G A GA G A A A G G A A G GAGGAGGGAGAGAAAAGAAAA GA $A G A A G A G G A A G A G G G G G A G A G A T G A G G A A G G A C A A G A C A G G G$ G GAAAGGGAAAAAAACCAAAAGGAAAAGGAAGGAAGAAACCT TGAATGGCAAGAAAACCAGGGGAAAAAAGGGGGGGGGAGAAG AAA A G A A A A A A G G G GAAGGAAGGAAGGGGCCGGGAACAGGAA TCAGGGGCAAACCCAGACCAGGGGGAAAAAAGGCAGAAAAAA A G G G A G G A A A G G G A A G GCCCCAACCGAAAAGAAA G GA G G G G G A A GACAAGAACGGAGGAACAAGGGGGAAAACCAACCGGAAAAG GAAAAAGGGAGCAGGAGAAAGGAAGCCGGGGGGGAAAACGGC $C G G G G A A A A C A A G G A G A G G G G G G A G G A G G G A G A T T G G G G A G G$ A G G A A A A A G G GAGGAGAAGGAAAAAGAAAGGAGCCCCAAACA AAAGGAACCAGAGGGAAGGGAGAAAAATAGGAAACGGAAAAG CACAAACAGGGAAAAAAAACAGGGAGAGCAGAGGGAAGAGGG
 $A G G G G G G G G G G G G A A A G G G A A A C G G G G G G A A A A G G A A G G C C G$ GAAGGAAGGAAGGCCGGAAAAAAAGATGAAAAAAACCGAAGA GCAGGGGAAGAGAAAAACCGGGAAAGAGGAAAGGGGAAAAAA CCCCCCCAGAAGGGGCGAGAAGGAGAGGGACAAAAGAAAAAG GAGGGGAGGAAAAGAAAGGCAAGGAAGCCGGGGGGAAGAAGA GAACCCCCCAAGGAAGAGGAACAAGAAAAAAGGGGGGCAGGA GAA A GAAGAAAAAAAGGAGAGGGAGAAAGAACCAAGAAAGGG GCCGGCAAGACGGGAAGAAAAGAACAAGGGGGACAGAAAGGG GTTAAAAAACAGACAACGAAAACGAAAGGGGGAAAAAGAAGG $A C C G A G G A G A A G G A A A A T T C C C C A A G G G G G G A G A A G G A G G G A$ ACCGGAAAAACGAACGGAGAACCAAGGGAAGAAGGGAABAGG $G C C C C A A A A A A G G C A G A T T G G G G G G G G G G A A A A G G A A G A A A A$ AAACAGAAACCGAGGAAGGGGGGGAGACCGGGGGGAAAAGGG A G GAACCAAAGCCGAAAAAGGGGCCGGGGCCAAGGACAAGGG ACCGAGGAGAAGGCAAAAAAAAAAAGGAAGAGGAAAGGGCAA A G A C C G G G G G G A G A A G G G G C C G GAGAGAAAAAAATGGAAAAA G GAAAGGGGAGAGAGGAGAGGGACCGAAAGGAAAAGGACAAA
 GAAAAAAAAAAGGAAACCCGAGAACCCGGAAGAGGAGGGGGA GCCGGAGGGGAGAGAGAAGGAGAGAACGGCCAACCAAGGGGG GGGAACCAAGAAGAGCCGAGGACAAAAACAGCCCCAAGAAAA G G A G G G G T A A C G G A A C C G GACGAAGAGAGAAGAAAAG
GAAAAGAGAAGAAACCGGGGGGAGGAGGAGAAGGGGAGCCG G G G A A GAGAAGAACGGGAAGAAGAAGAAGGAGGGGAAAACCG
 A G G A A A A A A A A G G A A G G G GAGGGACCAGGGAGAGGGACAAAC CAAA $A$ A A T T G A A A A A G G A A G G G G G A A A G G A C G G G G G G C A G G A
 GAAAAAAAAGGAGAAAAAAAGAGAAGGAGAGGGAAAAAGCCG A A G G GCC $C \mathrm{C} G \mathrm{G} G A A C A G G G G G A A A G G G A G G C C A C A A G G G A A A A$
 A G GAA A G A A G G GAA A A G GAGGGGAAGGAAAACCACA AAAAGA A A A G A A G A G G G A G A G G G G A A A A A G G A A A G A G A G G A G G A A G G C G G G GAGGCAAAGAGAGGAAGGAAAAGGAAGGGAAAGGCAAGA GAAGAGACCAGAAAGCAAGAAGGAAGGAAGGAGGGACGGGGG $G C C G G A A G G A A A A G A G A A G A G A A G A A G G G A A A A A A A A G A A A A$

 GAAAAGGAAGGAAAGCCGGAAAAAAGGAGGGAAAAGGGAGAA

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 GCCCC G G G A A ACC G G GAGGGGAAA GGGCC GAGGAGGGGGGGC C G G A G G G G G C C A A A A A G C A A A G G G G A A A C G GA $\mathcal{A} G G G G G G G G G$ GCACAC GAAGAGAGAGGGAGGGGGGGAGGACAAGGAGCCCCG GAAGGGGAACCCCGGGGGGCAAAAAGGGGAAGGAAAGGGGGA A G G G G C A A G A C G G A G G G G G G GCC G G C CAAACAA A GAG GACC G G G G G G G G G A A C G GAGAGCCAGAGAAGGAACAAAGGACGGGGG A G G G G A A A G G G A G C C G G A A G G C A A C A G G G G G G G G G G A G G G G G G GAGGGGAAAAAAAGAAAAAAAAGAGGGGCAGGAA GGGGGGG GAGAAGGACAGAAGACCAAAAGAGGACGGAAAAAAGGGAAGG GACAAAAGGAGGACCAAGAAAGGAGAAAAGAGGAGGAAGGGA G G GAGGGGGTTAAAGAAAGGGAGAACCAAGAAGGGAAAACCA A G GAAA A G GAGAAGACCAAAAGGGGAGAAAGAGAAGAGGGGA G G G G G G G A A A A G G A G G GCCAGCCGGAAAGCAGGGGCCCCGGG G G G G G A A C C A A A A G GAAAA $A \operatorname{A} A A A G G A A A A G G G G A A A A G G G G A$ AGGAAAAGGCCAAAAGGGGGGAAAAAAGGAAAAAAAAAAGGT T G G A A A A G G G G G G G G A A A A G G G G G G A A G G G G A A A A G G A A G G G GAAAAGGAAAAAAAAGGGGCCAAGGCCAAAAAAGGAAAAAAA A A A A A G G G GAA A GAA $A \operatorname{AGGGCCGGCCGGAAGGGGAAGGCAAAA}$ $A C C A A G G A A G G G G A A A A A A A A A A G G G G A A G G A A A A C C G G G G G$ G G G G GCCCCAAAAAAAAAAGGAAAACCGGCCGGAAAAGAAAC C G G A A A A G GAA $A \operatorname{GAAAAACCGGGGAAAAGGAACCGGCXAAGBC}$ CAAAAGGCCAAGGAAGGAAGGGGGGGGAACCAAAAGGGGGGA ACCGGAAAAAAGGAAGGAAAAGGGGAAGGGGGGAAAAAAAAA ATTAAAAAACCAAGGGGGGAAAAAAGGAACCGGAAAAGGGGG G G G G G A A A A C C G GAACCAAAACCAAAAAAGGGGGGAAGAAAA A G G G G G GAAC CAAAAAGGGGAAGGAAGGAAGGGGGGGGGAAAAA A G G C C G G C C A A G G A A A A A A A A G G C C G G G G A A A A A A G G A A A A A AAAGGAAGGAACCGGAAAAGGGGGGGGGGAAGGGGGGCAAAA ACCAAAAAAAACCAAGGAACCAAAAAAGGAAAACCAAAAAAG G A A A A A A A A A A A A A A A A C CAAAAAAGGGGAAGGGGAAAAAA G G G G G G G G G G G G G G G G G A A A A T G G G G G A C A A A A A A A G G A A A A C C G G A A A A A G G G G G A A A A A A A A CAA GAAAACCGGAGCCACAAA A A A A A G GAAAAAAGGGGAAGGGGGGGGAGAAAAGACAGACCB GAACAAAGGGGGAGGGGGAGGGGAGGGGGCCAGGAAAAAGGG A G GAGGGGGAGAGAAGGGGGGAAAACCGGGGCCGGAACAAAA $A C \subset A A G G C C C C G G A A A A C C A A G G G G G G A A G G C C A G G G A A G A A$ A A A A G A A G GAGGGCCGGAGGGAAGAGGGGCCAAGGAACCGGG G G GAA $A \operatorname{GCA} A A A G A G A C G A A G G G A A A A A A C C G G A A A A G G C C G$ G GAAAAGCCCAGGGGAAAAACGAAAAAAAGGAGAAGAGACCC $C \subset C G G A A A A G G A A A A G G G A A G G G A A A A G G G G A A G A A A C A A A C$ CAAAGCCAGAAGAACAGGGCCAAGGAAGGCCGGAAAAGAAAA G GAGGCCGGAACCGGGGAAAACCGGGGAGGCAGAAGACAAAA A A A A A A A $\mathcal{A} G G G G G G G G A G G A A A A G G A A A G A A A A A G A T C A A A G$ A G G G G A C A A C C A G A A G GAA A G GAGGAGAAAAGGGGAA GAGAA A A G GA $\operatorname{A} A A G G A A A G A A G A A A C A G A C G G G G G G T T A A G G A A A G C$ CAGGAAGGGCCAAGGGGCCAATAGGAAAAACAAAAGGACABA G GAAAAACCAGAAAAAGGGGAAAAAGGGGAAAGAGAGGAACB
 A G G G G G A A A A CAAAAACAAACAACCCCGGCXAAGGAAGAGAG GGGGAAAGGAACCCCGAAAAAGGAGGACAGAGGGAGGGGAGG G G G A A T T A GAA A A A A G GAAAACCGGGGAAAGAGCCCCABAAA A A A A A A A C C G G G G G G G A GAGGAACCGGGGAACAAG GAAAAAG
 AAACCGGGGAAAAAAAAGGAAGGAAGAAACCGGAAAAGGCCG AAAGGCCAACCGGAAAGGGAGAGAGGACCGAAACAGAAATTG

G G GCAAAGGAGAAAAAAAAGAGAGGAAGAGGAAAAGAGACCG G G G G G A A T T G G A A G A A GAGAAAACCCCGGGGCCAGCAGATAG G G GAA A A G G G GCCAAAGAAAAGGAAGGAAAAAAAA GAAAGGA AGGGGAAACAAGGGGGAAAAAGGGGCCAAAACAAGGAAGGGG AAAGAGGAAAATAAGAAAAAAAAAACCGAAGAGGAGAAC GAG
 GAGAGAAAGGGAACAGAAGGAAGAGAGAACCAGAAAGTXAAG G G G A A A A G G G G G G G GAAA $A$ AAGAAACCAACAGAAGGGAACCC G G G G G G A G G A A A C C G G G G A A A A GAG $\mathcal{A} G G C C G G G A A A G G G A A A A$ A GAAAAAAAAGAAGGGGGGGGGGAAGGGGAAGAAAGGGACAG G G GCCGGGGGAGGAAAAGGAGGGAAGAAACAGGAAAGAACCG G G G G A G A T TAA $A \operatorname{G} G A G G A A G G A A A A G G G A A A G G A G A G A T G G G$ ATTAAGGGGGGCAACAGGAGGCAAAAGGACAGAGGAGGAACA G G G G G G G G G G A A A G GAA A G A A A A C GAACCGAAAAA GAAAC C C C C CA GCAA GAGCAAGGGTTAAAAAAAAGGGGCCGGAGAAGGA G G GAA $A \operatorname{GA} A G G G G G G G G A A C C G A A A A A G G G G A C A A G G G A C G G$ A A A G G A A A A A G GAC CAA $A \operatorname{AGAA} G G C A A G G G G A A A G G G G G G G G A$
 $G G G A G A A A G C C G G G A A A G A G G G G C C C C A A A A C C A A A A G A A A A$ GAAACGGGGCCGGACCCGGGGGGAAAAAACCCCCAGGGGACG GAAGGGACCAAAAGGAAGAAGAAGGGGAGCAGAGGGGAAGGG GAAAAAATTGGGGCGAAGAAGAAGGAAAAGGGGAAAAAAGGG GAAGAGGCAGAAGAGGGAACGAGGGGGGAGGAAAAAGAAAAG GAAGGAAAAAACCAAAAAAGGGGGGCCGGAAGGAGGAGAGGG G G G G G GAA $A \operatorname{G} \operatorname{GAA} A A A C C G G G G A A A A G G G G G G G G A G G A A A A G A$ A G GAA A GCCAAGGGGAACAAAGGAGGGAAGGAAAGAGGAAAA A A GAGAGACGGAAAGGAGGAAGAAGGGGGGGCCGGGAGAACA G GAAAAAAAAGCCAGGGAAAAGGTTAGGGGGGGAAGGCAAGB GAAAAAACCGGGAGACCCCGGAACCGGGGAAAAGGGGAAGAA A GAA A AC G G G A A A G G G G G G GAGGGGCCAAGAGAGAGAAAGGA A A A C A A A G G G A G G A GAAAA A $A \operatorname{AGGGGGGAAAAAAAGCCAAAAC}$ $C T T G G G G C A G G G A A A G G G C G G A C A A A A G G C C A A A A C C G G G G C$ C G G G G G GAAACGGAAAGAAAGAAAAAAAACCAAAGCAAAGAA A G G G G C C G GA G G G A G G G A G G G G A CAGGCCAAGGAGAGGAAA G $G C C A A G G A A A A C G A G G A G G C A A A A A G A A A A G C A A A A A A A G G A$ ACCGGGGAAGGAAAACCGGGAAGAAAGCACGGAGAGAAAGAAA AAA A G G GAA A G G GAAAACAGGGAAGGGCCGGAGAAGACAGGA AAAGGAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAGAAAAG GCCGGCAGACCGAGGAAAAAGAAGGGGGGAATTGGGGCAAAC A GACCGAGAAAGAAAAATTAAAAGACCGAAGAGGAGGAAAAG G G GCCAAGGAAGGGGAGAGGGGGCCACGGCCGGAAAAGAAAG GAAACGAACCACAAAAGGGCCACGAAGCAGGGAACAG
A GAA A G G GAAAACCGGGGAAGGAAGAGGGGGGGACAGAGAA G G G G A G G G G A G G A G G G G C C A G A C G GAGGGGAAGGAA A A A A A G GACAACAGAAAGGGGAGACAAAGAGACAGAGGGGGAAGACAA G GAGAAGAAGAGCGGAAGGAGAAAAAAGGAAAAGGAAAACAA CAAAA $A$ A A $A \operatorname{A} A A A G G G G G G G G G G G G G G G C C G G G G G G A A A A G G A$ $A C C G G G G C C G G G G A A A A A A G G G G A A G G A A G G G G G G A A G G G G G$ GAAGGGGAAGGAAAAGGAAGGCCGGAACCAAGGAAAAGAAAC CAACCAAGGAAAAGGAAGGGGAAGGGGGGGGGGAAAAAAAAC C C C G G G G G GCCGGCCAAGGCCGGAAAAAAGGCXAAGGAAGAG G G G G G A A A A A A G G A A G G A A A A G G G GAAAA G C G G A A A G G G G G A A ATAGGAAGGAAAATTCATAAAGAAGCAGAAGGGGGAAAACAA G GAACGGGGAGAACAGGGAGGGAAAGGAGCCTTAACCAAAAC
 A A G G G A GACGGAACCAAAGGGGAGAAGGGGGAAAAAGGAAAG A GAGGGCGGGAGAAAGAAGAGGGGAGACAGGCCAAAAAAAAA ACCGCCCAGGGGAGGAGAGAACCGGAGGACCAAAAAAGAGGG $A G G G A A A A G G A A A C C G G C C G G C A G G A G G G G G G G A G A A A A A A G$

G GAGGAAAAGGAGAACCAAAAAGGGAAGGGGGGAAAGCCGCG A G GAAA A GACAGAAGCACAAAAAAAAGAGGAGAAAGGGGGAG G G G G G A A C C A A A A A A G GAAAAAACGAAAGAGGAAAA GGGGGGG G GAA A A GAGAAAAAAAGGATTAGCAGAGGAGGAAAAAAAAAG GAAGGGGACAAAAGGAAAACCAAGGAAGGAGCCGGACGAGGA A G G A G G A G G A G A A C C A A G G G G G G G G G G A A A A C C G G A G G A G G G A A G A G G G A G G G A G G GAGGGAACCAAGGAGAAGGGGAGAAGGG AGGGGGAGAGAGAACAGAAGAAAGGACGGAAAAAGGGGAAAA $A G G A A G G A G A A A A A G A G G G A G G A A G G G G A G G C C G A A G A G G A A$ G G G G G G G G A A G A A G G A G A A A A G G G G G G G G A A A A A A GACA $\mathcal{A} A G$ G G G GAGGTTGAAACCGGAAAAAAGGGGGGCCGGAGGAGAAAA A A G A GCACAGGAAGAAACCGGCAAAGAAAGGCAAAGCAGABAA $A C C G G C C G G G G A A A G A G A G G G C C A G G A G G A A G G C C C C A A A A C$ CACA C G G G G G A A G G G A G G G A A G G G A A GA GAAA A A A GAC G G C C C CAGGACCAAAGACCCGGGGGGAAAACGAGAGAAGGGGGGCCA A G G G G A A G G G G G G G G C A A A G G G G G G GAGGGGGGCCAAA GA G G GAAAACCGAGGGGGGACGGGAGGGGCCGGAAAACCAAAAAAA $A C C A G C C A A C C A A C C G G A A T A A A G G A C G A A A A A G G A G G G G G G$ G G G G G G G G G T T A A C C A A G G A G G GAGGGGGGGGGAG GAAA G G T TAAGGGGAAGAGGAGGGAGGGAAAAGGAAAAAAGGGGAAAAC $C G G A G A A G G A A G G G G A A A A C C G G A A G G G G G G G A G G G A A A G G C$ A A A G G G G G G G GCCAAGGGGAGGGAAGGCCGGACGGAAAGGAA A A A G A G G G G G G G G A A G G T A G A G G A A A A G G G G G G A A A A A A T T A A A A G A A G A G A A A T G GCCAGCAGAGGAGAACCGGGGGGATCXG GAAAAAAAAGAGAGGAGAAGGAAGAAAGGAGAAGAAAAAAAG
 A GAGGGGAAAGGCAGAAAGGGCAGGAGAGGGAGAAGAGAGGT TAAA A A GAGAAGGAAGGCCAAAGCCCCAGGGAAAAAGGAGAG GAACCGGCAGGAGACAAGGAACCGGGGAGAGAAAGCCGGGGG G G G GAGAGGAGCCGCGGAGCCAAGGGGGAGGAAAGCAGAGAA C A C A A C G G A G G A A A A G G A G A G G G G G A A G G G G A A G G A A G G G G A A G GAAGGAAGGAACCAACCGGAAAAGGAAGGAGCACACAAAA $C \subset C G G G G G A G A A A G G C G A G A A A A G A A A A A G G A A A A A A G A A A C$ ACCAAGAAGGAACCAAGAGGGAAAAAAGGAGAGGGGGCABAA
 A G GAAAAAGGGAAGGAAGGAAAGAGCCGAAGGGGGCCAGAGG GACAGGAGAGGAAGAGGCCAGGAAACCAGAGACGGAAGAAAG GAGAAAAAAAAAAGGGAACAAAAAAGAAACAAAAGCCGGCCA AAA A G G GAAAAAAAAAACCGGGGAAAAAAGGGGGGGGAACAA A A A A A A A G G G G G G G GAAAA T T T A GAAAAGGGGAAG GAAAAAAC CAAGGAAGGAAGGAACCAACCGGAAAAGGAAGGAAAAAACCC C C C A A G G G G G G G G A A A A A A A A G G C C A A G G A A C C C C G G G G G G A A A A A A G G G G G G G G G G G G A A G GC CAA $A \operatorname{A} G A A C C A A A A G G G G G G G$ GAAAAGGAAGGAAGGAAGGAAGGGGGGAAAAAAAAGGGAAAG G G G G G A A C CAAAACCAAGGAAAAAAAACCGGCCAAAAAAAAG GAAAACCAAGGAAGGGGGGGGAAAAAACCGGAAGGGGGAAAA A A A A A G G A A G G A A A A A A A A A A G G A A A A C C G G G G G G G G A A C C G G G G G G A A A A A A G G G GAAAAAAAAAAAATTCCAACCGGCAAAA G G G G GAACCGGAAAAGGAAAAGGGGGGGGAGGAAGAGGAACT TAAGGAAGGAAGAGAGGAAGGAACAAGGGAAGACCAAGAAAG GAGGGCCGGAAAAAGGGAGCCGGGGGGAAAGAGAAGGAAAGA A A A A A GAA A G G A A A G GAAGGGGAAGGCAGGGGAAAA GGGAGA G
 C GAA A A GCCAAGGGGAAAGGGGGGGAAGAAAAAAAGGGAGAA
 $A C C A G C C T A A A A A G A G A G A A G G G A G A G A G G G G A A A G G G G G G G$ G G G A A A A G A G A G G G GAAAAGGCCAAGGCCAGAAAAGGCAACA A A A G G G G A GAGGGGGGAAGGAAGAAGGACA AA AA GGGGAAA G G G G G G T TAA A GAAGAGGGGCAAACCAAAAAGGGAACAACGGA

G G G G GAAAAAAACAGAAGGAGGAAGAAAAGGAGGAGGGACAG A A G A A A A A A A G GAAACCGGAGGACAAAAAGGAGGGAAAAGAG AGGAAGGACAAAAGAGAAAAAAAGGGGCCGAAAAAAAGAAAA A G GAAA A $A \operatorname{AGGGGGGGGAGAGGAAACCGCGGGGAAGAAGAAG}$ A GAGGGGGACCGGGAAACGAAGGGGGGAAGGGGAACACAGAA GAAAAGGAACAGGGAAAGGGGGAGGAAAAAAGGGGGAAGABA A A C G A G A G A A A GAGGCCAAAGGGAAGAGATAAAAAAAAAGAA
 A G A A A G A G A A G G G A G G G A A G A A A C C A A G A G GAAAA A G A A T T C CACGGGGAAAAAACCAACCGGGGGGAAAAGGAAGGGGAAAAC $C \subset C A A G G G G A A C C C C G G A A C A G G A A G A G G A A G G A G A G G A G G G$ G G G G G A A G G G G G G A A G G G G A A A A $\mathcal{A} G G G G G A A G G G G C C A A G G G$ G G G G G C C A A G G A A G G A A A A A A G G G G G GAA $A$ G G C T T C C G G A A G GAAGGCCAACCCCGGAAAAAAGGGGCCAACCAAGGGGGGGGG G G G T T A A A A G G G G A A A A A A A A A A G GAA G GAAAA $A \operatorname{A} G G G G A A G$ GTTAAAACCAAAAGGAAAAAAAAGGAAGGAAGGGGGAAACC G
 G G G A A G G G G C C G G A A A A G G G G G G G G C C G G G G G G G G G G A A C C A A G G A A A A A A A A G GCCGGGGCCGGGGGGGGAAGGAAAAG GGGA A G G C C A A G G A A A A A A G G A A G G A A A A G G G G G G A A G G G G G G G G G GAAAATTAAGGAACCGGAAGGCCGGGGCCGGAAGGAAGBAAA A G G G G G GAAGGGGAAGGCCGGAAAAAAAAGGCCAAAAAACAA A A A G G A A G G G G A A G G G G G G G GCCGGAAGGAAGGGGAGAAAA $A$ GAAGGAACACCAAACGGAAAGGGGGCCCAGGGGGGGAGAGBA
 A G G G GAAA A A G GAA A A G G G GAAAAGCGGACAAAGGAAGAGAG
 GAAGAGAGGAGCCAAAACAGGGGAAAGGACCAAAGAAAGAGA A GAGGGAAGAGGGGGCCAAAAAAAGGGAAGGAAGAAGAGGGA AGGAAAGACGAGAAGCATTACAGGCAAAAAAAGGGAACAGGG AAGGACCGAAAGGAAAAAAGAGAGAGACCGAGGAAGGCAGAA A G GAGAAGGAAGGGGGGGAAAAAGAAGAGGAAAGGGGGGAAC A A G G G A GAGGAAAAAAGCCGAGGGGGGAAAAGGAAGAAAAAA C G G A G G A C G A A A G G A G A G G G G A A G G A G C A G G G G G G G G G G G G G G G G A A G G G G A A A A A G G GAC G GACAAAGAAGGCCAAGCA GA GA
 G G G G G G GCCAGAGGAGAAGGGAGGGCCCCGGAGGGGAAAGAA AAAAAGGCCGACCGGAAAACCAGAGGCGGGGCAGGAGGAAAG G G G G G G G A A A A G GCCACACGGGAGGAAGAAAAAGGGGAACAA AAACCAAAGGAGAAGAAAAGGCCAAAAAGGGCAAAAAGGGEAA A G G G GAACCAAAAGGAGAGGGGGCCGACAGAAGGAAGCAGAG A A A A A G G G G G A G G A G C C G G A G G A A $\mathcal{A} G G G G G G A G G G A G$
$A G G G A A G G G G G G A G A C G G G G A A G G G G A G A G A G A G A G G A G A G$ GAGAGGAAGAAGGGAAAGGTTAAGAAGGGGGGGAAAAAAGEG G G G G G GA G GACAACCACGAGAGGGGAGGACCGGGGAGAAGAG G G G A A C C A G G G A A G G A A G A GA G G G A G G G G A A C C G G A A C A G G G A G G A G G A G G G A A G G A C C G G C C A G G A G G A A GAGA A A A A G G C A A G GAGGGAAAAGGAGGGGAACCGAAAGGACGAAAGGGGGGGGG GAACCAAAAAAAAGGGGGGGGAAGATAAGGAGGGGGGGGTAA G G G A A A A G G CAA A A GAGGAGGAGAAGAAGAAAACCGGCAAA G
 A GAGGCAAAGAAAAGAAAAACCCGGGGGGAAAAAAACAAAGA
 $C$ GAGGAAAAAATTAAAGAGAAGGATGAGGGGACGGGGGGGGA G G A G A A G A G G A A G G G G G G G G A G A G A A G G A A A G G G G A A A C G G A G G G A G G A A GAGGGGAAAGGGAGGAAAGGAAGCAAGGAAACAA ACCGGAACCAAAGGGGGGGGGCCAAAAAAAAAAGGGGCCGGG G G G G A G A G A A G G A G A G G A G G G A A A G G G G G G G G G A A G G T T C C G G G G G GAGGGGGAAAACAGAAAAGGGAGAAAGAGGGGAGAAAA
$G C C A G A C G A G G A A G G G A G G G A A G G G A A T A G G G G T T A A A A G A G$ G G G G G G G A A A A A A A C G GAA A GAA A A GAGGGGAGAACACAAA $A$ GAAAAGGAAAAGGAACAAGAAGGAAAACCGGGGAAAACAGAG A A GAA A G G G GAAAGGAAAAAGAGAGGGGAAAAAGGCAAGAGA A A GAGGAA $A \operatorname{A} A G G G A G A A G G C C C C G A A T A G G A G G A A A A G G G A G$ A G G A A C C G GAACC G G G A GAGGAAAAAGCCAAGGAAAA GAACC
 A G G A G A A C C G G G G G GAGGGGGGGAAAGGACAGAGGGGCAAAA A G G GAGGGGAAAAAAAAGGAAGAAAGGGGACAGAA GGGGGAG AAAGGGAAGAAAAAGGAGGCCAAGGCGCCAGAGGACCGGGCAA

 A A GCCAAGGGGAAGGAAAAAAAAGGAAGGAAGAAGAGAAAAG A GAGAGGAAGAACATCCGGGGAGCAGAGAGAGAGAAAAAAAG AAAAAGGAACCAACAAAAGGAAAGGAAGGGGAAGGGGGAGGG GCAGAGGGGGGAAAACCGGGAGGCCCAAAGGGGGAAGAAAAG GAAAAAAAAGACCGGGGAAAAGAAAAAGGAGGAAACCGGGGA $A C C G A A A A A A G A A A A G G G G C C G G A G G A A A G G A A A A A G A A A G A$ A G G A G A A A A A G GAAA A A A A GGGGACGGAAAGGGAGGAAAAAA C G G G G G G G A G A G G A G G A A A G G A GAGGAAGAGAGGGAGAAAAC A ATCCAAAAAACAGAAGAAAAAACCGGCCGGGGGGGGGGCCA
 GAAAACCGAGAAAGGAAGGAACCCCAAACAAGGGGGAGAGGA A A G G G A A G G A G A G A G G A A G A A G G A G G G G A G G A A A A A A G G A A G AGGAGGACCCGGAAAGGAAAAGGGGCCGAGAACAGAGAACCG GAAGAAAGGAGAAAAAAGGCCGGGGCAGGGGAGACCACACAG A G G G G G GCCAACCGGCCAAAAGGCCAACCAAAGCAGGGGGGG GAAAAAGCCAAAAAGAAGGAACCAAGAGGGGGGAAAAAGGGG G G GAAAAGAGAAAACGAGAAAGGAGGGACGGGGAGGGCAAAG GAAAAAAGGAAGGGGAAGGAAAGGGAGCCGGAAGAGAAGAGB G GAGGGGAACCAAGGGAGAGGGGAAGGGAAGGAGAAAAGGAC A GAGAAAAAGAAATTAAGGAACCCCAAAAGAGAAAGAGAGGG GAAGGGGAAAAAGCGGGACAGGAGAAGGAGGAACCAAAAAAA G G GCCGGAACAGGGGGGAGAAAAGGGGAAGGAATTAAAAAAC A G G A A A A $\operatorname{A} G A G G G A A A A G G G G G G G G G G C C A A A G A C G A A A A A A$
 A GACCGAGAAGGGGAAAGAATCCCCGAAAAAAGGAACTTGGG GAAAAGGAAAAGAAAGGAACCGAAGGAGGGGAAGAGAGAGAA A G G A A A A G G G G A A G G A G A A A GACAGGGGGAAGGAAAAAAAAA CAACAGAGGGAAGAAAGAAAGAGGACAAGGAAAGAGAACCCC ACAGGAAGGAAAGAAAAACAAGGAAAGGCGGAAAGGGGGGGG GAAAAGGAAAGAACCAAAACCAGAGGAACGGAAAACCAACAG AAGCCAGAAGAAAGGGAAAACGGGGAGGACCGAAAAAAAGAA GAAAGAGAAGAAGGGCCGGGGAAAAGGGGAGGACCGGAAGGC CAAAAGGAGTTGGGGGAAGGACCGGAGGGAGAAGGAAAGAGC C G G G GCCGAGAAGAAGGAAAAGAGAGAAAGGAAGACACACAA A G G G G A A A G G G G G CA $\operatorname{A}$ G GAAAAAAAAAAAGAAGGGCACAGAGGC CAAGGCCGGGGAACCCAGGGGGAAAAGGGGGAAAGAAAAGGG GAAGAGAGGAGACAAAAAGAACAAGAGGAGAAGGGAGAAAAG GAGGAAAGAGGAACAAAAAAGCAAAGGCCCAGAGGGGAGACB ACAAAGACAGGGACCCCCAAACAGAAGGGGGTAAGGACCGGG G GAAAACGGGGAGAAGGAGAAAAGAGGGAAGAGAGGAGAAAA GA $A$ A $\operatorname{G} A A A A \operatorname{A} A G G G G T T A A A A C C G G A A G G G G G G A A G A G A A A G$ GAAAGAGAAGGCCAACCGGAAGGGGGGCCAAAAAGGGAATTG A G G GAA A A GAACAAAAAAAAAGGGGAAAAGGACAAAGCGGGA A A G GAGGGGCCAAAACCGGGAAGAGAATTGGGGGAGGGGGAG A GAA $A \operatorname{GG} \operatorname{GA} A G A C A T T A A G A A G A G G A A G A G G A G G A A A G A G A A G$ GAACCAGGGGACCCCAAAAGAAAAAAAGAACGGGGGAGAGGA GAAGAGGAAAAGGCAGGGGCAAGAGACAGAAAAAGAGCAGAA

AAAGAGGAGCCGGGGAGAGGACAAAAAGGGGGGAAGGAAAAA $A G G C C A A A A A A G G G G A A A A A A G G G G A A G G A G A A G G G A G A G A G$ $G G A A A G G G G A A G G G G G G A A G G A A A A G A G G C C G G A G G G G A G A A$ $C C C T T G G A A A G G G C A G A T T A A G G G G A A A G A G C A G G C C G G G G G$ G G GCCGGAGAAGGCAAACCGGAAGAGAAACCGGGGGGCCGGG G GAAAGAACAAGGGGAAGGCCAACCGGCCGGAGGAAGAAAAA G G GACAAAAAGGGAAAAGGGAAACAGAGGGGAAGGGGAAAAG $G G G A G A G A A G G G G A C A G A A A A G G A G G G C C G G A A A G A A A G A A G$ GAAGGAACAGGAAAGAAGGAGGAAAAGACACAGAAGAAACAC CAACAAAGGGGGGGGGGAAAAGGAACCAAGGAAGAAAC G GAAA A GACCAAGGAAGGAAAACCCCGGAGACGGCAAAAAAAGGGGA $A C \subset A A G G G G G G A A G G G G A A A A G G A A A A G G A A G G G G A A C C G G G$
 G G GAG G G A A A A A A A A A A A A GGGGAAAAAAAACCAA G G CACAA G G G G G GAAGGAAGGAAGGAAAAAAGGAACAGGAAGGGGAAACA A G GAAAAAAGGAAAAGGCCGGAACCGAGAGGGGGAGGCAAAAA A A A G A C C G G G G G G G G G G G G G G G G A A A A A A G GAA G GA G GAC C A AAAGGGAAAAAGGAGGGAAGACAAAAGGAAGAGA GAGGAGAA $G G G A A A A A C A A A A C C G G A A G G A A G G C C A A A A A A A A G G A A G G G$ GAAAAGGGGAAAAAACCAAGGCCCCGGAAAAAAGGGGGAAAG G G GAAA A G G G GAACCCCGGCCGGAAAAGGAAGGGGGGCCGGG G G GAACCAACCAAGGAAGGAAAAAAGGAACCCCGGGAAAAAG G G G G GCC G G G G A A G G G G G GCC G G G G G G A A C C G G G G A A G G G G G G G G A A A A G G G G G G G GC CAA A C CAA A G G G G GAAAA A G G G G G G G A A G G G G A A C C C C G G C C G GC C G G A A G G G GAA G G G G A A A A A A G G G GCCGGAAAAGGAACCAAAAGGAACCCCAAGGAAAACCCAAAC C G GAA $A \operatorname{GA} A G G A A A A G G G G G G G G A A A A A A G G G G A A A A C C G B A$ A G GAA $A \operatorname{GAAAA} A \operatorname{A} A A A A A A A A A A A G G G G A A G G A A G G G A A A A A G$ GAAAAGGGGAAGGGGGGGGGGGGGGAAAAGGAAGGAAAAGAA AAAGGAAAAAAAAGGCCGGGGGGAAAAAAAAAAGGAGAAAGG G G G A G A G G GAGGGGGGGGGAGAGAGGGAGGAGAAAAAGGGGA A G G G G G G G G G G A ACAGAAACCAAGGAAGAAACCAAGAAACAA G G GCCGGGGGGAAGGCCAAGGGGAAGGAACCGGGAGGAGAGG $G C \subset A G G A G G A A G G G G A G G G G G G G A C G G C C A A A A A A G G G A A A G$ GAAGGAAAAAACCCCCCGGCCCCCCGGGGAACCAAGGGGTTG G G G G G G G A A A A A A G G A A A A A A A A A G G G G G G T T G G G G G G G G G G G GAAAAAAAAGGCCGGAAAAGGGGGGCCGGAAGGAAAACAAAG G G G G G A A G GAAAAAAGGGGGGGGCCAAGGCCAA GGGGGAAAA ACCAAGGCCCCCCAACCAAAACCAAAAGGAAAAGGAAGGGGA A A A G G G GCCGGGGAACCAAGGAAGGGGAAAAGGGGGGCAGAA ACCGGGGAAGGCCAAAAAAGGAAGGAACCAACCCAGAAAAAA G G G G G A A G G G G A A G GCC G G CAAAGGGGAAAAAACAAA
G GACGGCCAGCAGGAACGAAGGGGCCAACCAGGGGGAACAG GAACAAGCCGGAAGACAGGGGGGGAAAAAGGAAAAAAAAGBG $G G G C \subset A G G A A A A A A A G G A A A A A G G G A A G G G G G A A G C C A A A A A$ $A G G G G A G A A G A G G A C G G G A G G A A A A G G A A G G A A A A A A C A A A G$ A G G G G A G G GA GAGAACAAGAGAAGAACGGAAAAA G GAGCCGGC CACGGAACCGGGGTTGGGAAGCAGAAAAGGAGGGGCCAACAA A A GAGGAAGAAGGAAGGAGGAAGAGAGGAAAGAGGCCAACAA A A A A A A A G G G G A G A G A G G G G G G G G G G G G G G G A A G G G G G G A G A GAA A G G G G A A G A G G G G G G G A A A G G A G G A A A A G G A A G G G A G G G AA $A$ A $G A G A A A A G G A A A A G G G A A G A C A G A G C C G G A A G G G A A A A$ GACGGGGAAAAAAAAAAAAAAGGGGAAAACCCCGGGGGGGGG G G GAA $\operatorname{G} G A A A A C C G G G G G G G G A A C C C C G G G G G G A A G G G E C A G$ G G GCAA $\mathcal{A} G G G G G G A A G G C C A A A A G G G G C C A A G G A A A A A A G G A$ A A G GAGGAGGAGGAGGAAAGGGAAAGGAACCGGGGAAA GA GA AAGCCAAAAAAAGGGAAAGAGGAAAAACAGGAAAAGGGAAAG A A A C C G G G G G G A A G A A A A G CA GAAAACAAGGAGAACCGGGGA GGGGAAAGAGAGAAGAACCAGAAGGAAGGCCGGGACCAAGGC

CAGGAGGACAAGAGAAGGGGAGGGGGGGAGAAGGGAAAACCG
 AACAAAAAAGGGGAAAAGAGAGCAGGAGAGAAGAAAAGGGGG GCCAGGAAGAACAAAAGGGGAAGGAGGAGAAAGGGGGAGAAC
 A G G G G A G A G A A A A G G G G A G A A G G A A A A A A A A A A A A A G G A G G A A A A A G G A G G G G A G A A G G G G A G A A A TAA A GAGAAAA G G C CA C A GAGAAAATTGACCGAAAGGAAAGAAAACCAAAAGAAGGAGAG GAAGGAACAGGCCAGGGAGGAAGGGGGAAAAAAGGCCAACAA A A A G GAAGGGGAAGGAGAAAACACCAAGGGGAAAACAAAGAA ACCAAAAAGCAGGGGGGCCAACCGGGGAAGGGGAAAAAAAAA A A A G G A A A A A A G G G G A A G G A A A A A A G GC C A A G G A TAAC C G G A A A A A A A G G G GAGGGAGGGACCAGAAAGACAAAAGGAAGAAAG G G G G G G G C C G G A A G G G G G G G GCCAAGGGGCCGGAAGAAAAAA AAAAACCAAGGGGGGGGAATTAAGGGGGGAAAGACAACCGBA AAAGACGAAACGAGGAAAAGGAGACAAGAAGGGGAGGGGGAA
 GAAAAGAGGGAGGAAGGGGGGAAGGAGAGAAAGAGCCAGAAA A G G A A G G G GAACCAAGGGGAAGGAAGGGGAAGGAACCTXAAG G G GCCAAAAGGAACCAAAAGGAAGGAAGGAACCAAAAGAAAG GAACCGGGGGGAAAAAAGGCCAAAAAAGGAAAAAACCGGGGA A G GCCAAGGAACCGGGGAAGGAAGGAAGGCCGGGGGGAAGGG G G G G G G G A A A A G G G G A A A A G G A A G G G G A A G G G G G G G G G G A A $G$ G G G A A A A G G G G G G A A A A G GCCAAGGAAGGAAGGAACCAAAA G GAAGGAAAACCAAGGGGGGGGGGGGAAAAAAGGGGGGGGGGA A A A A A A A C C G G G G G GAA $A \operatorname{AGGGGGAAGGGGGGAAGGGGCAAAA}$ A G G G GCCGGGGAAGGGGAAAAGGAAAAAAGGGGGGAAAACCC C G G A A G G A A G GCCAAGGAACCAACCGGGGAAAAGGAAAACAA $A C C A A C C A A G G G G A A A A C C G G C C G G G G A A C C A A A A A A G G G G A$ A G G G G A A G GAAAACCGGAACCGGGGAAGGGGAAAAGGCCGGA A $G \operatorname{GGG} G \mathrm{G}$ G A A A A A A A A A A A A A A A $\mathcal{A} G G G G G A A G G A A A A A A G G G G G$ G G G G G G GAA A GAACCGGAAAAGGCCGGAGCAGAAAGGGGAGA
 G GAGGAAAAGGCCGGAAGACAAAGGTTAGAAGAAGGGGAAGA TCACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAG GAGGGAAGGGGGAGAAGCCAGAGAGAAAAGGGAGGAAGAGGA A GAA A A A A G G GAGAAAAAA AGGGGAGGACGGCCAGGGAGGGG G GA $A \operatorname{GA} A A G G G G A T T A C G A A G G G A G G G G G G A G G A G A G G A A A C$ CAAGGAGAAAGGGAAGAAAGGAGGAAGAGCACCAGAGGACCA C G GAA A GCAAACCGAAGAAGGGAGAGAGACGAGACAAAAAAG GACAAACAAGGAACAAGAAGGCCGGGGAGGGCCAAGGGGGGG A A A G A GA $\operatorname{A} G C C G G G G A G G A A A C C G A A C G G G G C C A A G G G G G G A$ A G G G G GAAAGGGGAAAGGGAGAGAGACAGGAGGGAGAAAGGG GAAAAAGGGAAAAAGAGGGAAGGGGAGGGCAAGAAGGABAAG GACGAAGGGGAAGGGAGAAGGCCAGAAGGGAGAAGGAGAA GA
 AACGGAAGGAAGGAAAATTGGGGGAAGAGAGGAAGAAAGGGG GAAACGAAAGGGGAAGGGGGGAAAAGGGGCCGGGGCCAGAAC $C \subset C A A A A G G G G A A G G G G G G A G G G G A G G G G A A G A G G A A G A A G G$ G G G A A A G A A A A A A A ATTCCAGAAAAGGACGGAAAAAAAAAAG G G G G G A A G G G G G G G G G G G C G G G G A A A A G G A A A A G GAACAAAA A G G G GAAAAAAAAAAGGAAAAGGGGAAGGAAGGAAGGCAAAAG GAACCGACCAAGGAACCAGGGGGGGAACCGAGAAGGGGAAGA AAGAGCCAAAGAGAAAGGGGGCCGGCCAAGGAAGGAAAAGGG G G G G A A GCCAGAGGGCCGGGGAACCGAAGGATTAAAAAAGAA A G G A G A A A GA $\operatorname{A} G \mathrm{G} G \mathrm{G}$ GAAAGGGGAGGGGACGGAGCAGAAAGGA G G G A G G A A A A A G G G A GAG G G C A G T T A A G G G GAAAAACAGAGA A A G A G G G G A A G G A A A A G G G A A G G A A GAA A A A A G C C A A A A G G G G C $C G G A G C C G G A C A A A A G A G A A G A C C C A A A G A G A A A A G G G G A G A$

GAACAAAAGACGGGGGAAAAAGGAAGGAAGAAAGGCAAGACA
 CACAAGGAAAAGGGGCCAGGGGGAAAGAAAAGACAGAAAGAC CAA $A \operatorname{GA} A A A G G G G A G G G C C G G G A G G G G A A A G A A A G G A C A A A A$ AAAGGGGCCGGAAAAAAACGAGGAACCCCACGGACGGAGAAA GAAAGGGGGAAGAACGGGGAAAAGGGGAAGAAAGGCAAAAGA A G G G G G G G A A G A A A A G G A G A A A A A G G G A A CACAAACAA G CA A $A C C A A G G G A A A A G G A G G G G A G A A G A G A A A A A G G C C A C G A A A G$ A A A A G G GCCAAGGAAGGGGACAGAAGGCACAGGAAGGCAGAG G G GAAAAAGACGAGAAAAACCTTGGAAGAAATAAAGGGGGGG
 G G A A G G A G G G G A G G A G A A A G G C G T T G A GA GAGGGAA G G G G A G G G A T T A CAAACAAAGGGGGGGAGAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGGAACAAAAAAGAAAAAAGAAA G GAGAACCAAAAAAACAAAGGAAGAAACCGAGGAGAAGAAAA $A C C A A C C A G C C A A A G A G A A G A G A G A A A G G G A G G G G A A G G A A C$ CAAAACAAGGGAAGGGGAGCCGGCCGGGGGGAAAACCGAGAA GAGAGAAGGGAGGCCAAGGAAAAAAAAAAGGAAGGGACCGBA AAAACGAGAGGAAAGAGGACAAAGAGGAAGGGGGGAAGAGAG A GAG G A A G GAAGGGAAGGGCACAAAAAGGAAGGAACCACAAA AGGAAGGAAGGGGGGGGAAAAAAAGGGAAGGAAGGGAAAGAA $A C C A A A A G G G G A A G G C C A A G A A A G G G G A G G G G G A A G G G A A A G$ G G G G G A A G G G G A A C C G G A A A A G GCCCCAACCAAAA G GAA G G A G GACGAAGGAAGGGGGGGAAACCGAAAAAAACCGGAAGGGGC CAAAAGGAAGAGGAGCAGGATAGGGGGGGAAAGGGAGGAAGA $A G A G G A G C C G G G A G G G G A A G G G G A A G G A G C C A G G G A C A A A G G$ GAGAGAAAAGGGGCCGGGGGGAAGGGGGGGGGGGGAA$G G G G G G$
 CAACCGGAAGGGCGGATAAAAGAGGAGCAGGGGGGGAACCCG G GAGAAAGGAAGGCCGGAAGAGGGGGGGGGGAGGGGGCCGGA AAAAAGGAACCGGACGAGGGAGAAGCCAAAAGAAAGGGGCCA ACACCGGAAGGAGGAAAAACCAAAGAAAGAAAGAGGAGACAA AAA A A G G G A A GAA $A \operatorname{ACCA} G A G G G G A G C C A G A A G G G G G G C A C A A$
 GAAA A A A $A$ A A G G A A $G \operatorname{A} A G G A G G G G G G A A A A G A G A A G G A G A A A C$ CAAGGAAAAGGAAGGAAGGAAGGCCAACCCCAACCAAGGGGG GCCAAAAAAGGGGGGAAGAAAAGCCGGGAAGGGAGAGAAAAA $A C C A A G A A G C C G G C A G A A G A A A A C C A A A A G G C A C A G G G G G G A$ GAAAGAAATGGAGAACAAACCAGGAGGAACCGGAGGGCAGAG $A C \subset A A A A A A A G G A A A A A A G A G A G G A C C G G A G C C G A C A A A A A G$ G G G A A G G G G G G GAGAAAAAAAAACCGAAAAACCGGAACAAAA A A G A A C A A G G A A A G G G G G G A A G G A A A A G G G G A A G A G G
CAAAGAAGGAGAAAGGAAGGAGAACCCGAAAGAGAGAAAAA AAGGAAAAGACCCAAAACCAAAGGGAGAAAAAGAGTTAATAA A A C G G G G A GAA A C G G G GAAC CA $A \operatorname{AAGAGGACGGGGGGAAACAA}$ G GACCGGCCGGGGGGGGAAGGAAAGGAAAGACCGGCCAAGAG GAACCGGAGGAAGGAAAAAGGAACCGGTAGGAAGBAAGAAAG
 ACAGGGGAGGACCGGCCAATAGAAGGAAGGGGGAGCCGGGAG GAAGGAAAAAACCACGAGAAAAGAGAAAAAGTAAACCCAAGA A GAGAAGGGGGGGAACCAAAAAAAAAATAAAAGGAGGCAABAA CAAAGGGGGGAGAAGAACAAAAAAACAAAGGAGGGCAAACAA A G G A C G G A A A A G G G A G G G G G G G G A G A A G G G A G C A A G G A A G G G G G GAAAAGGGGGAGGAAAAACGGCCGGCCGACCAAGGGAAAA A A G GCGAGGAAAAGGGAAAGGGGGGAGCCGAAAAAAAAAGAG GAGCCAAAGGAAAGAGGACAAACGGGGAGGACAGAGAGAGGA AA $A G G G G A A A A A A A G G G A A G A A G A G A A G A G G G G A A A A A A A G G$ GAAAACCAATTGACCCGATCCGGGGGGAAAAAACAAGAAAGG GAAAGCCAAGAGGAAAAGGGGAGCAGCGGAAGGTTACABAAG

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 GAAGGCAAGGGCAGGGGAATTAGAGGAAGAACCGAAAGAAGA A GAGGAACCGGCAGAAGACGGAGGGAAGGAAGAGACCGGGGA $C G A C C A A A A G A A A A G C A G A G A G A A G G A G A A G G A A G T A C G G G A$ GAA $A \operatorname{GA} A A A G G A A G A G A A G G G G G G A G G G G G A G A A A A G G A A A G$ $A C C A A G G A A A A G G G G G G A A G G A A A A A A G A A A G A C C A A G A A A G$
 $G C C G G G G A A A A A A G G A A T T G G G G C C G G G G A A C A G G A A A A G G G$ AGAGGGACCAAAAGGAAAACCACGAGAGAGGAAAGGGGAAAG G G GAAAAGGAAGGGGCAGGACGAGACAAAAGGGCAAAGAGAA
 A GAG A G G G G G A A G A A A A GAGGGGAAGAAAAAAGAGGAAAAAA AAACCAAGGGGGGAAAAGGAGAAAAAAGAGAGAGGGGCCGGG A A G A G A A G A G G A G A A G A G G A G G G A A A A G G A A C G C C A A G G A A C CAAAGAAAAGGAAGGCCGAGGCAGGCCGGGATAGGGGAAGGC C G GAGGGAGTAAAAAGGAAAGAACCAAACGGCCGGGGGGGGA A G G G G A A A A A A G G A A G G G A G GAGCAGGGGAAGGAAAAA GA GA A A A G A G G G A G A A G GAGGCCAAAAAAGGAAGGAAAAGAAGGAA G GAGGAGAAAAGGAACCGGGGAGGGCCGGGAGGAGAAAGAAC C G G G G G GAA A GAAGGAAAAAAAGAAAGAGGGAGAACAA GAA G
 GAGGAAACCGGGGAAAAGGAAGAAGAAGAAGGGAA GACCGGG G G G A A A A G G GACC G GAGGGCAAGGGAGCCGGAACCAAGAAAG A GAAAACCCGGAAGGGGCCCCGGAACCAACCAAGGGGGGGAA A A G A A A C G A G A A A G G A A G G G G G G C C G G C C G G G G G G A C G G G G G G G GAGGGGGGGAGGAGACCATGGGAGGCAAAAGAGGGAAGAA G G G G G G G G A C GCAACAAGGAAGGGGGGCCGGCAGGAGGAAAA A A G A G A G G A G G G G G G G G A A A A G G A A G G C C A A G G G A A A A G G A G GAAGGGGAGGGAGGAGACCAGAGTAGAGAAGAAAAGAAGAGA A A A A A G GCCAAGGGGAAGGGGAGAGAGAGAAAACCGGAAA G G A A A G G GAA $A \operatorname{GCCA} C G G G G A A G G A A A A A G C G A A G A A G G A A G A G A G A$ G G GAA $A \operatorname{GGA} G \mathrm{G} A \mathrm{~A} A A A A G G A C C C G A C C A C G G G G A G G G G A A A G$ GAGAAAAGGGGCCAGGGAAGGACCCGGGAAACACCAACAGBA $A G A A G A A G G G G A G A A G A G G A G G A A C A G C A A G G G A A G G G G G G G$ $G G G A A C C G G G A A A A A A A G G G G A A A A A A G G G A A G C A A A A G G G A$
 GAGGAGGGGGAGGAAACAAGAGGAAGGAAAAAAGAGGCAGGG


 CACAACCAAAGCCGGCCAGTTAGGGAGGGGGGAGAGAAAGGA A G G GAGGAGAGAGGGGAAAAAGACAGAGAAGAAGGAGAAGAA AAGGGGAGAAAGGAAGGAGAGACCCACGAGGAAGGAAGAAAG GAAGGAAAGAGGAAAAAGAGAGGGGAGAAGAGGCAACGGGGA A G G G G G G C C A G G G G G G G G G G G A A A A G G A A A A A A A G C A TAA $\mathrm{A} C$ C G G G G G GAAAGACAGAAAAGGATAAGGAAGGGAGAGAAAAAA G G A A C A GAGGGGGGGAAAACCAAGGAGGGAACCGGAAAAAAA AGGAAGAGGAGAACCAAAAGGCCGAGAAAAACAAAAAGAGGA AAGAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGGAAAAG A GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGGAAAA
 A GACACAAACAAAAAAAAGGAAGAAAAAAGGAAGGAAGGGGG GAGGAAGAAAAGAGGGGAAAAAAAAGAAAAACCGGAAGAGAG

GAGACAAAAGGAGCCAAAAAACAGGAAAGAAGAAAAGGACAG A G G G G A A A A G G G G A A A A A A $\mathcal{A} G A A A A A G G A A G G A A G G C C G G G G G$ G G G A A G G G G G A A C G G C C G G G A A G G G G G GAAAA A C GAAA G G A A A A GAAAAGAAAGGAAAAAGGGAAAGTTGAGGAGAAAACCCCA A G GAAAAGGGGCCGGCCAAAAAAAAAAAAGGAAGGGGAAGAG G G G A A GA G A C A G G G GAAA $A \operatorname{AGGAA} G A C C G G G A A G A G A G A A G G G$ GAGGAAAAGCGGGAAAAAAGGGGAGGAAAAAAAGGGGTACCB G G G G G G G G A G G G G C G G G G A A G A A G G G GAGAGGCAGAC G GAA $\mathcal{A}$ GCAAAAGAAAGAAAGAAAAGAAGAAAACCGGCCCAGGAGGBA GTTAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGGGAAAAAAAAAGAAACCAGAGGGGAAGGGGCAAAC CAATAAGAAGGAAAAGGGAGACGGGGGAGGGAGAAAACCGGG GAACCCCAACCGGTAAACCAACCGAGGAAAGAAAGCCAAAAA A G G A A C C A A G GCCAAAA G G G G G G G A A A GAA G G A A A A G G A A G G A G GAGGCAGGAGAAAAGGGGACGGAGGGCCAGGGCCGGAAAAG G G GAA $A \operatorname{GGGAAAA} G G C C A A G G A A G G C C A A G G C C G G G G G G G G G$ G G G G G G GCCGGCCGGAAAAGGGGGGAAAAAAAAAAAAAACCG G G G G GCCCCAAAAAAGGAATTGGAAAAAAAAAAGGTTAATTA A A A A A A A A A A A A A A A G GAAGGAAGGGGGGAAAAAAGAAAAAA A A A A A A A G G G G A A C C G GCCAAAAGGGGCCCCGGGGAAAAAAG GAAAAGGGGGGAAAATTGAAGGGACGGCAGGCCGCCCGACAA G G G A A G A G G G G G G C A G A G G G G T T C C A C C A A A A G C C C C G A G G A A G GACAGCCAGGGAAGGAAACGGCAGGAACCGGAAGAGAAAA A G G A A A A A G A G GA $A \operatorname{GGGA} G A G G A A G A A A A G C A G G G G C A G A G A A$ A A G A A A G A A G G A A $\mathcal{A} G G G G G G A G G A A A A G G G A G G A A G G C C G G G$ A A A G G A A A A G G G G G G A A G G A C G G A G T T G G C C G G A GC C G G C A G AAAAAACAAGAGACAAGGGAAAAGGGGAAGAGAAAAAGGGGA

 G G GAGAAGAGAGGAAAAACGACGGGAGAAAAGGAAGAAAGAG G A G T T G G A A G G A A A A C G G G C C C C G A G G G G G G G G A A G G G G G G A A GAGGGGGGGGGAGAAGGGGGGGGAAAAAAGAGAGGGGGAAA
 GAGGAGGAAGAAGAAGGGACCAAAGAGGACCGACCAACAGAG A A GAAATAGTTGAAAGAAAGGAAAAGGAAGGCBAAGGCATTA A A A A A $\mathcal{A} G A G G G G G G G G G C C G G G G G G A A A A G G A A A G G G G G G G A$ AAAAACCAAGGGGGAGACCCCAAGGAGAGAACAAAAGGGGGA $C G A C C G A G A A A G G C C A A A G C A A C G G G G A A A A A G A A C C G A A A A$ A A A A A G GCCGAGGGAGAAGAGAGGAAGAGAGAGAAGGGAGAC
 A G G A G A C A GAGGGGGGGAAAAGGAAGGAGCAAGCAAAGAAAG A G A G G G GCCGAGGAAAGGGCCCCACAAAAGAAAAAGG
G GCAGAGGGGCCCCAGAGACGGAAGGAACCAACCCCAACCG GAAGGAAAAGAAAAAGACCGGGGGGAACACAAAAGCABAAAG G G G G A A T A A A A G G G G A A G G A A G G A A G G G G G GAAAA A A A A C G A A
 ACAAGGGAAAAGGAGAAGAATAGAGCCAAAAAGCCGACAAC G GAACCACAAAAAAAACCAAGAAGAAAGGGGAGGCAAGAACAG A G GAAAAGAAGGAAGGGAAAGGGGAGGAACCAAA GTTCGGGG GAAAAGGAAAAAGAGCCAAAGGCAGGGAAAAGAAAGAAAGBA AAAGGAAGGCCAAGGGGGGAAAAAGCCAGAAAAGGGACACCG
 G G G A A A A G G G G A A C C C C G G G G A A G G A A A G G A A G G G G G G G G G C ACAAAAAAACCCCAGGGAGGGGGAAGGGGGGGAAAAAAGAGG GCAAGGGAAGAAACCAAGAAGAGGAAGAGAAAGAGAAGAAAA $A C C G G G G A A C C T T G G A A A A A A A A A G G C G A G G G G A A A G G A A A G$ G G GCGAACCAGAGGAAGATGAAGAGGGGAGAGCCGAAAAGAA GAAGGAGGGAAAAGGGGGGCAAAGGAGGGGAGGAAGGGAAAG G G G G G G A A A C CAAA A G G GAAGGGAGAGAGGAAAAAGAAACCG

A G GCCTTGGGGGGGGAGAAGGGGAAAGAGAAGGAAGGAAAAA A A A C C A A A A A A G G A A G G G G A A G G G G G G A A G G G G A A G G G G G G G GAA A G A A A A G G G G G G A A G G C C G G A A G G G G C C G G G G A A G G G G G G G GAAGGCCAAGGGGCCGGAAAAAAGGAAAAGGAAGGGAAAA A T TAA A G G G G GCCAAGGGGGGGGAAAAGGGGGGGGAACAAAA A G G A A A A G G A A C C A A G G A A A A A A C CAAC C G G G G G GAA G G C C T T G G A A A A G GCCAACCGGGGGGAAAAGGAAGGAAAAGAAAAAA AAAGGGGGGGGAAGGAAGGAAGGGGGGGGCCGGAACCGCCAA A G G A A A G C A A G A A G A A G A G G G A A G G G A A A G GA G A A A A G G G A A AGGAGAAAACCGGGAAATTGGGGAAGAGGAGGGAGAAGAAAG GAA A G G GAAGGAGGGACGAGGAGGGGGAAAGAAAAAGCCGGG GAAAAAAGAGGGGGGGGGGCCGGAAAGGGGACCGCCCAGAAA A A A G A A C A A A A A GAGAGCCAAAAAAACAAGAAAAAAAAAG GA A A G G G T A A GAGGAAGAGACAAGGAAAAAAGGGAAGAGAAAAA A GAGAAAAAAGAAGAGAAAAGAAGGGGGGAGGGAAATAAGAG G G G G G GAAAGAGAACAAAAAAGGAAAAAACCAC GACAA GAA G
 G G GAGAGACGAAGCCCCGGGAAGAAAAAACCCAAGCCGAAGG $G G A G A A C G G A A A C G G G G G G G G G A A G A A G G A G G G G G A A A A A A A$ A A A A A G G A A A A C C A A G A G G G A A C G G A G G G A T C G G A G A G G G G C CAAGGAAAAGAGGAAACGAAAGGAGAAGGAAAGGAAGAAAAA AAAGGGGGAGGAAAAAAGAAAAGAAGAAGGAGAAAAAGAGAG A A G A A A G A A A GCA G G G G CAGACAGATTAAAAAAA GAAGAAGC C G GAG G G A A C C G G A A A A A A A A G G G A A A A A GAGGGGA GAAAA A $A G G C C G G G G A A G G A G A A A A G G A G A G A G G G C A G G A A A A C C G G G$ GAATTAAAAAAGAAAGGAAGGAAGAAAGGAAGGAAGAAAAAA $C \subset A A G G A G A C C A G G G A A A G A C A C G G A A G A A G G G A A G G A G A A A$ A G G G A GA G A A A A A G A A GAA A GAGAGGAAGCCAAGGGAAACC G
 GAGGAGGAAAAAGCCACGGGGGAGCAACCAAAAACAGAACAA $A G G G G A A G G G A G A G G A A G G G G G A A T A A A A G G A G G B A G A A G A G$ G G GCCGGGAGGAAAAGGGGGGAAAGACGGGGGGAAGAAAAAA
 AACGGAAAACCAGAAGGGGCAGGGGAAGGCCGAAGGAGAAAA A A A G A A A G A A T A G A GAGGAAAACAGAAGGGAAGGGGACCGGG $A G A A A A G G G A C G G A A G G A A G G G G A C C A G A A G A A G A G G G A A A G$ G G GAA $A \operatorname{GGGAA} A G A A A A G G A A A G A G G G A A G G A A A A G A G A A A A$ $A C C G A A G A A A A G G G G G G A A C C A A G G A A A A G G G A A A A A G A C A A$ A A G A G A A G A CACCAAACGGAAGAGGGAGGAGGAAGAAGAGBA
 G G G G G G G G G G G A G A A G GAAA A G $A$ A $\mathcal{A} A A G G G G G A A A G G A C B C A A$ A A C G G A G G A G G A A G G G G A A A A A A G G G G G G A A A A A A G G A G A G A G G G G G A A G G A A G G G C G G GAAA $A \operatorname{A} A A A G G G C C A G G G A G A G G A A$ C G GCCAGGAGGGGACGAATGAAACCAAGGAAGGGAGGGGCCG G G G A GAGGGAGCCAAAGAAAGGGGGAAGGAAAGAAAAAAA GA
 A G G G G G C G A G A A A A A G G G G G G C C A A G G A A A G A G A G G G A G A G G
 G G GCCAGAAGGAGGAAAAGATGGAGAACCAAGGAGAGAAAAC C G GAGAGCCCCAAACGACAAAAGGGAACAAGAGAGGGGAAAA C T TCAAAACACGGGGGACGAACAGGCCGGGAGAGGAGAGAAC A GAAAAAGGAACCAAGGAAAAGGGAAAAGAAAACCCCAAGAA G G GCCAGCCGAGGACGAGAGGGAAAGAAGGAAAACAGCAAAA $A C C G G G G G G A G A A C C A A A A C C A G G G G A G G A A A A G G A G A G G G G$ GCAACGAAAGAGGAAGAAGGACAGGAAAAAACCAAAGAGCCG GAAACGAGGGGAGGGGGAAGGGGGGGGGGAACCAACCGAAAA A G G A A G G G G A A G G G G C C G G T T G G A A A A G GAA A G A A G G G G C C G G G G A A G G G G A A A A A A C C A A G G A A G GAAAA A GAAAA G GAAACA AAACCAAGGAAAAGGGGGGAAAAAAGGAAGGAAAAAAAAAAA

AAACCGGAAAAGGAAAAAAAAGGCCCCGGGGGGGGGAAAAAG G G G A A G G A A C C A A A A G G G G G G A A G G C C G G G G G G A A G G C C G G A $A C C G G G G C C A A G G A A G G G G G G G G G G G G A A G G G G G G G G A A G A G$ G G G A A G G G G G G G G G G G G G G G G G G G G G G G G A A A A G G C C A A C A A GAAAAAAGGAGGGAAAAAAGGAAGGGAGGGGAAAGGGCAGGA A GACAAAAAAAGAAAGGAAAAAAAAGGAGAACCAAAAGACCA ATATTGCAGGAAAGGGGAAGAAGGAGGAATTGGAGGGGAAGA GAAAGGGAAAAAGAGGGAGCCGGGAGGGAGAACAAGGGGAGG A A G A A G G A G A G G G G G G G A G C G A G A A A A G G A C A A A G A A A A G G A AAAAAAGAAGAGAAAAAGGGGAAAAAGGGGGGGGGAAGAAAA
 A G G A G A A A G G G G G G A G G A A A G G A A G G A G G A A G G C A A G G A A G A
 A G G G A G A A GAA $A \operatorname{G} G C A A A A A G G A A G G A A G G A A A A G G A A A A G G G$ GCCCCAAGGCCGGAAGGGGGGGGGGAACCGGCCAAAAGGCCG GAAGGAAGGAGCAACAGAAAAAAGGAAAAGAGGGACCAAGGC $C \subset C G G C A A C A A A A A A G G A A G G A A G A A A G G A A A G A G A A G G G G A$ A G G G A A A A GAA $A \operatorname{GCC} G G G A A A G G A G G A A G A G G A G A A G G G C C G$ $G C C G G G G A A G G G G G C A C G G G G G G A G G G G G G G A A G G C C G G C C G$ GCCGGTTGAAAGAAAACGGGAGAAACAGGAAGGGGCCATAGA GAGAGGGGGGGAAGGAAAACCGAAGCCAAGGGAAATTAAAAA A G G A A G G A A G G G G A A A A A A G G A A A G GAGGGAGGAGAACCCCC CAAGACCGGAAGAGGAAGGGGAAGAAAAAGGGGCCAAABAAA AAGAGGACAAAAAAAAAAAAGGGAACCCAGGCGAGGGAAAAA AGGAGAAAGAGGAACAGAAAAAAAAAAGGCCAAAGAAGAAAA $A C C G G G G A G G G G G G A G G A G C A G A G G G A G A C A G G A A G G A A G A A$ AAAGGAAAAAGGAACAAAAAGAAGGAAAAGAGAAGGAAAACA G G G A A A A C C A A A A G A G A G G C A GACAAGGGGGGGCCAACCGAA A A A G G G G G GCCAG GAGAAAGAAAGGAAAAGGGAACACGGGGG $G G A A T A A A G C G C C A G A G A A A A C C G G A G G A A A G G G G G G G G G G A$ G A G C C A G A G A A C A A A G A A A G G G A C G G G A A A A G A G G G A G G G G C A G G G GAGAAGGAGGGGGACGGAAAGACGACAAAAAATAACAC CAAAACACCAAGGAAGGGAAAGAAAGGAGGGAAGGGGAGGGG GACAAGGAGAGGGGGACAAAGGACAGCGAGAAGAGGABAGCG G G GAGCCCAGGAAGGGGAAAACCGGAAAAAAAAGAGAAAAAC
 A G G G GA A A GCAAAGAGGAAAGGGGAGGGGGAGGAAGAAAGAA A G GAAAAGGAAAAGGAAGGGGAAGGGGACAGGGAAAAGAAAA A G G G G A A G A A A A C G G G G G A G A A G A GAAC $A$ CA A A A G G G G G G T T G G G G A A C C A A A A A A C A G G G GCGCAGAAGAAGGCAA GA GAA G G A A G GAA A G G GCCAA G G G G A A A A T T G G A A G GAA A A A G GACAG G C A A A A A GAGGAAAGGGGGCACCGACAAAGAAGACAAGG
$C \subset G A A G G G A A A A A A C C G G G G G G G G G G A A A A A G G A A A A A A A A$ G G GAGGACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGG A G G A A G G G GAA $A \operatorname{GAAAAATTAAAAAGAGAAAGAAGGAAAAAGA}$ A A A A A A A A G G G GAGATTACCCAGAGAGGACCCAGGAAGAGAA A G G G G GACACAGACCAAGGAACAAAGAAAGGAGGAGGAAAAG A A GCCAGAAAAGGGAGGAAGGGGAAGGGGGGAGAAAAGGAGG GAGAGAGGAGCCAACGACAGGAAAGGGAAGGAAAGGAAGAAA G GAGAGGGGGGGGAGCCGAAAGGCCAGGAAGGGGGGAAAAAA AAACCAAGGGGGAAGCCAAGAAAGGCCGGAAAAGAAGAAGAA CAGTAAAGGAAAAAAAAAAGGGGGAAGGAAAACAGGAAAAAC CAACCCAACAAAGAGAAAGAAGGAACCAAGGAAGGGAGBAGA AAGGACAGGGACCAAGGGGCCAAAAAAAAGGGGCCAAAAGGA A A A A A A A G A A G G A A GAAAA A G G GAGAGCCGGGGGAAGGACAA CAAAGAAGGAGAAGAGAAAAAAAGGAAAAGGGACAAGAAAAG GAAACGGGAAAAAGGCCCCAGGAAAAAAGAAAAAAGGGAAAA C G GCC G A A A A G G G G GAAAAAAAAAGGAAGGAAGGGGAAAA G GA GAAGAAAGGAACCAAAAGGAAAAAAAAAAAACAGGGGGAAAA

A G G G G A G A GCAGGGGAGTAAACAGGCCGGAACGAGATAGGGA AAAAAGGAAGGGGAAAAAAAAAAAAAAAAGGCCAGGGAGAGG G G GAGAGAGGGAAACAGGACAGGAAGGAGGAAACAGACABAAG A GAGAAAGAGACCCAGAAAAAAAAAGGGGGGGGAGGGGGGGG G GCGGGGGGGGCCAGGACACATAAAGGAGGGAGAAACAGAGG A G G A A A A A C A A G G G G G G A A C C A A A A A GAA G GA G T T CA GA G G G A A A A A G GAA A GAAAAAAGGAAGGAGGGAAAAAAAAGGBACAC A GAGAAGGAAGAGAAGAAGCGCAGAGGGGGGGGGGAACAGGA ACCGGAGGAAGGGAGGACCACCCAAAGGGAAGCAAAAAGAAA AAACCGAGGAAGAAGGAGGTTCCAGGGAACCAATTGGGGGGG

 AGAAAGGGAAAAAGGACCCAGAAAAGGAAAAGAGGAAAAGGG AAAAGGACAAGAAGAGGAAGGAACCGGCCCGGGGGAGAAAGG G GAGGGGAAGGAAAAAAAAAGGGAAGGCCGGAAAAGGGGGGG G G GAGGGGGGAGGCCAAGGGGAAAAGAGACAAAGGGGAAGAA AAAAAGGCCGAGGAGGGAAAAACACAAGGAAAAGGGGCCCCA GAGAAAAGGAAGAAGAGAAAAAAGGGGCAAGAACCGGGGGGA CACGACCGCCCAAGGAAAAGGAAAGAAGAAAAAAGGAAAAGA G G GCCAAGAGGCAGGGGAACCCCGGGGAAACAGGGGGGAAAA A ACGACCGGGGAAAAAAAAGGGGAGAGGAGGGAAGTTCAAAA GAGGGAAAGCCGAGGGGACAGGGAGAAGGGGGGGAAGAAAAG G G G A G G G A A A A G G G G G G A A G GCCAACCGAGGAAAAAAGAAAA $A G G G G A G G G G A A G A A G G A A A A G A A A G A A G A A G G G A G G A B A A G$ GAA A A A A $A \operatorname{A} G A A A G G G G G G A A G G G G A G A C C G G G A G G G G G G G G G$ G G G G A G G G G G G G G A A G G G A A G A G A C G G G G G G G G A A G A G G A G G G GAACGGAAGAAACCGGAGAAGGAAGGAGAACCGACCAAAGA GAAAGGGAAAAGAGGAAACGAGGGGGGGGCCAAGGAACAAAA CAA $A \operatorname{A} G A C A A C G A A A G G A G G G C C A C G G C A G G G G G G C A A A G A A$ GAGAAGAAGGGAAGGGAAAAGGGGACAGAGGAAAGAAGGGGG $G C \subset A A G G G G A A A G A G A G A A G G A A A G G G G G A G G G A A A A A A A A G$ GAAACAGAAAGGGAGGGAAAGCCGGAGCAAAGAAAGAAAGAA A G GAAAACCGGAAGAGGGGACAAAGGGAGAGGGAGGGAAAAA A G GAA A GCATTGGACCCGGCCGAAAGGGGGAAAGGGGGGGAA G GAGGAACCAGGGAGAAGGAAGGAAAAGGGGAACCGGGGGGA AAAAGCCGGAGAAGGAAGAAAAGGGGGCCCAAAAGGGGACCB A GAGGGAGGCCAAGGAAAAGGGAAGGGGAAGGGGGAAGAAGA A G GAGCACCGAAGGGGGGGAAAAGGGGCCCCAAAAAAAGAAA GAGAAACGAAAGGAAGGAAGAGGAAGGAAGGCACCGGGAAAA G G G G C G G G G G G A A G A G A A G A A A C GAGGGGGGAAAAAA G G T T A $A G G A A A G G A G G A A G G A G G G A G G G G A G G A G A A A A G A G A A A G G G$ $A G C A G G G G A A C G G G G A A G G G G G G A A G G G G A A G G G A G A G G G G G$ G GAGAGAGGAAGGGGGAAGAGGGAAAAGAGCAAGGATAACCC A A C A G A A A G G G GAAAGAAACCAGGGAAACAAGGGGAAAAAAG GAACCAACCCCAAAAGGGGAGCCCCACGAGGGGCACAAACCA A G G A G G G A C A G G G G A G A G G G G A C C C G G G A CA A A G GAA G G C C C C GAGAAAAGGAACAGAGAAAAGGGGAGGGAAAACCGGGAAAA A G G G G A A G GAGGACCGGCCTAGGAAGAAAAGGGGAGGGAGAA G G GCCGGGGGGAGAAAAGGAAAAGGAGGAAGAAGAAACAAGA GAAGGAAAAGGGGCCACAACCAACAAAAAGGGGGAACGAAGG GAGGGGGGGCCAAGGAGGGGGGGGAGAAGAAGAGAAAAAAAA AA G G GAAAACCGAAGAAAAAGAAGGAGAACCAAGGACGAGAC A G GACAGAAAAGGGGAAGGCAGAGGAAAACCAGAGGAGAACA AAAGGGGCCAACCACCAGAAAAAAAGAACAGGAGAACGAAGA C G G G GCAG GATAGGGAAGGGGAAGGAAAGAAAGGAAACAGAG A A A A A C C C C C C G G G GAGGGGGGGCCAAAACCAAGGAAAAGGG G G GAAAAGGGGTTGGAGAGAAAAAAGAAAACAAAACCGAAAA
 $G C \subset C C C C G G A A A A A A G A G A A C A A A A A A A A C C G G A A A A G G A G G$

A A G G G A A A A C CA A A G G G G G A G G G A C T A A GAGAG GAGGGGCCA $A G G A A G G A A A A G G A G G G G A G G A A G G G G A C G G A A G G A G A A A G G$ $G C C A A G G A A G G G G G G G A G A A G A A G G C C C C G G A A G G G A A A G G G$ G G GCAGGCGAAAACCGGAAGGGGAAGGAAAACAGAGAGAGAG GAAGGAAGACCGGGGGAGGCCGAAAAAAAAATACCGAAAAA G GCATTAGGAAGCCGGGGAAAAGAAAGGGAAGGGAAAAGACCG A A G A A A A C C G A GACCAGAGGAGACCGAAAGGGAGGAAGGGGA A A G G G A A A A A A A G G A G G G G G G G G G G A A A A A A G G T TAAA A A G G A A GCGGGAGGAAAGGAAGGAAGCGAGAAGGAACGAGGAAAAC CACAACCGGAGAAAAAAAGCAGAAAGGAACCAACCCCAAAAC CAACCCCGGGGGGAACCGGAAAAGGAAGGAAAGAAAGGAGGA G G G A C A A A A A A G G G G G G G G A G G G G A A GCACCAACA G G A A A G G A A G G G G A C A A A G G G A A $\mathcal{A} G G G G G G A A A A C X A A G G C C T T G A A A A$
 A A A A A G GAAGGAAGAGGCCGGAGGGGGAGGAGAACACAAAAA ACCGGCAAAAAAGGAGGAAAAGACCCAGAAGGGAAGGAAAAG G GAA A A G GAGGCCGGAAGGAAAAGGCCAAAAGGACAAAGGAA G G A A G A A G G G G G G G A A G A G A C G G A A G G G GCCGGAAAAA A A A G $G G G A A A G A G G A G A A G A G G G A A A A G G A G G G G G A A G G A G A A G G B$
 GGGAGCCAAAACCGACAAGAAAGAGAAGAGAGGGGGGGAGGA A A GAGCCAAGGAGCCGACCCCAACCGGACAGACAAGAGAGGA

 CACGGCCAAAAGGGCGGAAAGGGGGGAAAAAGGGGBAAGGGA A G GAA $\operatorname{G}$ GAGGAAAGGAGAAAAACAAAAGGGAGGGGAAGGGGA G GAGGGGAAGAGAAGAGAGAGGAAGAAAGAGAAGAGGGAAGA G G GCAGGAAGGCCAACCGAGGGGTAAAGAAGAGGAGAAAGGG GAAGGGAGGCCAACCAAGGGGAAGGGGAGCAAAGGGGAAAAA AGGAACCAGAAAAGGAAAAGGAGGGGGAGGAAGAGGAGAAAG G G A A A G A A A G G A A A A GAAAGGGAAAGGAGAGTTGGGGGAAAA AGAAGCCAAAAAAACGAAAGGAAGAAAAAGGACAGAAACAGA C GAGACAAAAAGGGGAAGAGGAAACAGAAACGGAAGGGAC G T TAGAGAAAGCAGGAAACGGAGGGGGAAAAGGAAAAGAAAGGA A G G G G G G G GAGACAAAAATGAAAGAGGACAGGAAAGGCAAAG ACCAAAAAGTTAAAAAGAAGGAAAAAAGGAAAACCAGGAAGG A GAGGGGAAAAAAGAGAAAGGGGAAGGAGGAGGGGGAAAAAA A G G G GCCAAAA C A G GAAAGGGGGGAAAGTTAGCGGGAAGGGGG A G GAACCACAGACAGGAAGGAAGGAGAGGGGAACCGGGAAAA G GAGAGGACCAAGCCGAGAGAGGGGAAAAACGGGAAAGAAAA AAAGGGAGGAAGAGGGGGAAAAGAGGGGGAAAAGGAGGAAAG

G G G G G GCC C G A A G G G G G G G G G G G G G GA A A GAAAA A G GAAA A GAAAGCCAGGGGGAGCCGGGACCGGAGGGCCGGAAAAAAAGA GAAAACAAATTGAAAAAAAGGGGGGGGGGGGCCAAAAAAABA A A GACAAGACAAAAGCCAATTGGAACCGAAGAGAAGGAGAGG GAAGGGACGAGAAAGACCAGAAAGAAAAGAGGGGGGAAAAAA A G G G G G GA GACAAGAGGGGGGAGAAAGGGAAAGAGGGGAACA AAGGCCAGGAGAGACGGCAGGACGGGAGGGGGGGGAAAGAAG GAGGGGGACAAAACCGAAAAACCAAAAAAAAAAGGAAGAAAG G G G A A A A T TA G G G G G G A A G A C G G A A A GAAACAA G GA GAA G G A GACGACGAAGGGGAAGAAAAGAAGGAACGGGAAGGAACCGBA A G G A A G G G GCACCAACCAAAAGAGAGAAGGAAAAAAAGGGGA A A A A GAAAGCCGGGACCGAGGAAGGGGACAAAAAGAAAAAAG GAAGAGAAGGAAAGGGGAAAGAGGGAGGGGAAGAAGAAAAAG
 GAAGGGAGAAGGAGGGAAGAGGGCAAAAGAAGGAAAAAAAAG $G C C A A G G A A G G A A G G G G A A A A A A G G G G G G G G A A G G G G G A A G G$ AAGAGAAAAGAAGAGGAGGAGGGCAAGCCAGAAGGAGAAAGA

G G GAAGGAGAACCGGATGACGCAGGGGAAAAGAAGAAGAAAA $A G G G G G A C A G G G G A A G G A A G G A G A A G G C C A G A G A G A G G A A C G$ $G G G A G G G G G G G G G G G G G G A G G A G A A A A A A A A C C A A G G G A A A G$ G GGAAAAGGAAAAGGAACCGGAAGGAAGGAAAAAAGGGGGGA AAAGGCCGGGAGGGAGAAAAAGAGGGAACGAGGAACCCAAGAA C C C G G A A A A A G A G C A G G A G A G G G G G G G G G A G G G G G G G G A A $\mathcal{G} A$ A G G A A C C G GA G G G G G G A G G T A A A G G GAGGAACCGGGAAAAA G $A G G G G A G G A G G A A G A G A A A A G A G G G G G G G A A G G C C A A G A A A G$ A G G G A G A G C G G C C A A A A G G A A G G A A G G C A G A G A A G A A A G A G G G G GAAGGGGGGGGGAGACAGGAGGGCCAAGGAAAAGACAACA AAAGAAGCCCCGGAAGGTTAACCAACCAGGGGGAAAAAGACAA A G GCCGGAAGAAGAGAACAAGGAGGGGAGAAGAGAGAAGGGG G G G G G A G C C C A G G G G G G A G G A A G G G A G G A C C G G G G A A A G A A A A G G A A A A A A G G G G G G GAAGCGAAAAAAAAAAAAGGACAAAAA T GCGGAACCACCCGGGGGGAAGGAAGGGGAAGGGGAAGGCCC CAGGGGAGGGGGGGAGAAGAAAAAAAAAACCAAGAGAAATAA GAAACAGAAGGGGGGAGAAAGAAAAAAGGAAAGAAGGAGGAA A G GA G CAAAGGAAGAAAAACCGGACAGAAAGAAAAGGCCGGG A A A A C A G G A G A A A G G G G G GAGGGGAGGAAGGGGGGAACCGGG GAAGGGGAACCCCGGGGAAAAGGGGAAAAGAACGGAAGACCA A GAGGCAGAAGGCGGAGTAAGGAAGAGAAGAGAGGGGGGGGG GAAAAGGAGCCAACCGGAAAAGGGAGGGGGGGGAAGAAAGGC
 GAGCAGAGGCCAAAGAAGACCGGGGGGAGCAGGGAAGAGAAA GAAAGGAAAAAAGACGAGAAGGGAGGAAAAACCAAAAAAAGC
 GAGGGCCGGAAGGGGAAGAGGAAGGAGAAAACCGAGGAAAAC A A A G G A G A A A A A GAAAACCGGGGGGACAAGGGAGAAAGGCCG GCCAGGGGGCCGGGAAAAAACGAAAGGAAGAACACAAAGGCA $A C A A A A A G A G A C G A A A A G A G G G A A C G G A G G G A A A A G G A G G A C$ A G G G G A G G A G A A C G C A A G G A A C A A A A A GAAAAA A A A A C G G G G G GAAGGGGAAAAGGCCGAGGGGTAACGGACAAAAAAGGGGGAG GAAGGGAAAGAGGGGGGGGAAAAAACAATCCGAGACCAAGAG A A G A C G A A A G A G G G A G G G G G G A G G G C C G G G GAA A GAACAAA A
 $A C C A A A T G G A A A A G G A A G G G G A A A A G G A G G A G G C A A G A G G B A$ G G GAA A A A A GAAACCGGAGAAAAGGGAAAAGAAAAAACCAGA $C G A A A A A G G A A A G G G G A A A G G G G G G G G A G C C A A G G G G C A A A A$ A GACAAGGGGGGGGGCCAAAAAAAACCAGAAGGAAAAGAAAG GAAA A A G G GAA $A \operatorname{Ag} \operatorname{A} G A G G G A A G A A A C C A A A G A A G G A A G A C C A$ C GAGAGAGAAAGGGGGAAACCAGAAAAAAGGAAGGAACAACB A G A A A GAA $A$ A A A G G G G GAGGAAACAAAGCGAAGAAGACAAGGG G G G G GCCGGGGGGAAAAAAGGCCGGCCGGAAAAACACAAGAA ACCGAGAGGAAACGGGGAACAGAGAAGGGGGAAAGAAAAGAA A G GCCAGAAAACAGAAAAAAAAAGAGGGGCCGGGGAACCCAA A G G A G A A T A A G G G A G G G G A A A G G A G CAGGATCCGGAGCCC A A
 GAACAGGAGGGAGGGCCAAGGGGAAAAAAAAGAGGGAAGAAA A A GAAAAAAGGAACCAAGGAAGGGGGGCCGAGGCCAAGAGAG G A A A A A A G A G A A A A A A A A A A GAAACACAAGGAAAAAGAAAAA A A GAAA A GAGGGAAAAAAGAAAAAACCGGGGAAAACCAGGAG G GAGGGGAAGAGAGACAAGAGGGAAGGAAGGGGGGAAAAAAAG
 GAGAGGGACTTGGGAGGAAGGAAAAGGCCAACCGGGGAAAAG AAAAAAGAGGAGGGAAAAGGAGAAAAACCAAGGAACAGAAAC CAAGGGGAAGAAGAAGGAAAACCAGCCGGGGAGGAAAAAAAC C C C G G A G A GAAAAAGGGAAAGGAGACGCCACGGGGCCBAAAA A GACCAACCGGAAGAGAAGAGAAAACCGAGAAGCCAAAAAAA GAAGGAAAAAAGGGGGGGGAAAAGGGGGGAGACAAGGCAGAG

A A A G G A A A A G GAA $A$ A $A \operatorname{GAA} A G A A A A T A A A G G G G G C C G G A G A$ G GAGGGAAAAAAGAGGGAACCGGGGAAAGGGCAGAAA GAAAA GAACCAAAAGGCCGGGGGGAAGGGGAAGAAGAAAACCAAGGG GAACCGGGGGGAAAAGGGGAAAAAAAAAAAACAAAAAAAAAG A GAGGGAGGACAAGGCCAAAATTGGCCAGAAAGAAAAAAGAA $A C C G G C C A A A A G G A A G G A G G G G G A A A A G G A G G G C C G A G G A G C$ C G A A A A A A A G G A A A A CAA GAGAAAACAAGGAA GAACCGGGGA GAGAAGGGAAAGGAAAGGACCAGAAGGAAGGGGCCGGGAGGG CAAAAAAGGAAAAAGAAGGGGAAAAAACAGGGGAAGGAACAC GAACCGGAAACGGATTTGGTTCCGGAAGGAACCCAAAAGCAC C G GAC GAAAAAAAAAAAACGAAAGGGGAGCCCCCAC GAAGBA
 GAAGGAGACCCAAAGGAGGAAGGGACCCAAAAGAAACGGGGA A A A G G G A A G G G A A A G G A G A A A A A GAGGGGAAAAAA G GAAAAAA GAAGGAAAAGGGGAACCCCAAGGGAGGAAGACCCCAGAAAGG G G G G G GCGGGGAACAGGGACCACAAAGAGCCGGCAAACAAGG
 GCCGGCCGAAACCAAGAGAAGAAGGGGGGACAAGGGGCAAAG
 G G G G A A T G G A G C A G G G G A A A A G G A G G G C C A GACAAAAAAA A A ACAGAAAAAAAAGACAAACGGGAGAGAAAGGGGAAAGGGACG GAAAAGGAAAGAAAAGACCAGTAAGAAGAGGGGGGAGAGGAA GA $A \operatorname{GGG} \operatorname{GA} A G A G A A G G G G G G A G A A A A G G G A A A A G G G G G G A A A A$
 G T T G G A A C A G G A A G G A A A G G G A G A A G G C A G G G G G A G C G G A G G GAAAAAACCCCAGAAGGGGGAGGAGGGAGGGAACCAGAGAAG
 G G GCCCCGGGGAAAACCGGCCAAAAAGCCGGGAGGGAGAAGC G G A G A A G G A G A G G G G A G A G A A A A G GAGGAGAA GAAA G CA G G G G G G G GAAAAAAGGAAGAGAGAGAGAGGGGGGGAGAAAGAAGA GAGAGACGAGAGGGGAAGAAACAAGGGGAACAAGAGGCACAA GAGAAGAAAAAAAGGTAAGAGGGAGACGGAACCGGGACAAAG A A GAA A G G G G G G G G A G G A A G G T A C A A G G G G G G G G A G A G G G G C
 G G GCAA GAACCAACCGACGCCAGAGAGCAAGGAGGGAACAGB $A C A G A G A A A A A G G G G C A A C A G G A A G G G G G G G A A G G A A G A A A G$ G GAGGCCAAGGCCAGAAGGAAAACACAAGAGAGAAGGGGGGA A G G G GCCAAAAAAGAAAAAGGAAGGAAGGAAAGGGACGGGGG A G A G A G A A A A A A A A GAA A GAAA A A A GGC CAGGGAA GACAAA G
 A G G G G A A A A A G G G A A GAG $\mathcal{A} G G G G A G G G G A A G G G G G A A A A A A C$ A G GAA $A$ A $\operatorname{A} A A A G G A G G A G G C A A A A G A A C C C C A C G G A A$
$A G C C A G G G A A A A G G A A A A A A A A A A G G C A G G A G A A G G A A A A C$ GAAAGCAGGACAGAGAGGGGAGAGGAAAAGAACGGAGCAAGA A A G A A G G C C A G A G A G G G G G G G G G A A A A A C G A A A G GAA A A C A G A A G A A A A C CA G A G A A A A C CAACAGGAAGACCGGGAAAGGGCT T G CAAAAAAGGGGGGGCCAAAAAAAGGGCGGGCAAAGAACC C G GCAGGAGAACCGAAGGAAGGAAGCCGAAGCAGAACGAAGA GAATAGAGAAAGGGGGGCCAAGGGAGGGGAAGGGGGAAAGGG GAGGGGGGACCAGGACCCCCCGGAAGGACGGGAAAAAGGGGA GAAAAAAAGGGAGTAGAGGAAACGAAAAAAAAAGGGGAAAAA $G C C A A A A A A T T G G C C A G C A A G A A G G A A A A A A G G G G G G G A A C A$ A GAGGGGACAGAGGGAGGAGGCAAGGAGAGAGGAAGGGACCA AAAAAGGGGGGAAGGCAAAAGAAAAGGGGGGGGAGAACAAGG GGGAAACCCAACCAAAAAAAAGGCCGAGGAGAGCCAGAAAAA
 A A GAAAAAATTACAGAGGGAAGGGGAAGAAGGAAGAGCAAAA G G A C A A G G G G G A A G GAAGCCCAAGACCAAGGGGAACCAA A A G $G G A C C G A A G A A A A G A G G A A G G A A A G A A A A A A A A C C G A G A A G G$

G GAAGGGGAGAGAAGAAGGAAAAGGGGGGAAAAGGAAAAAAC
 CAAGACAGAGGGGGGACAAGGCCGGGGGAAAGGAAGGCAAGC $C G G C A C C C C A A A A G G G G A A A A G G G G G G A A G G T A G G A A G A A A G$ G G G G G A G A A A A A A G G GAGGACCCGGGGGGAGGGAA GAAAAAC CAAAAGGAAGGAAGGAAAAGGAAGAGGAGGGAGAAAAAACAG GAAA $A \operatorname{AGGGGCA} A G A G G G A A G G A G G G C A G G A A G G G A G G G G G G G$ GGGACGAGGAGAAAACAAAAAAAGAGGAAGGGGGGGGGAAAA AAGCCGGAAGAAAAAAGGAGAAGGAAGAAAAACACBAAGAAA AAAAGAGGAAGGAGAGAGGGGAGAGGACCACACGAAGACAGA A G GAA A GAAAACCCAAGAAGGAAAAAAGAGAAAGGGGGGGGG G GAA A A A A CAGAAGGAGAAGACCAGAAAAAAGGACGGCACC G
 C GACCGGCCAGAGGGAGAAGAGGCCAAGGAAAGCCGGCAGAC $C C C A G G G A C A A G G G G G G A G A G C C G G A G G G A G G A A G G A A A A A G$ GAAGGGGAGAGAGACAAGGGGGGAGGGGGAAGAGACCGGTTA A A G G G A A A A A A G G G GCCGGAGCCAGGGGGCAGGCAGAACAAA G G G G A A G A C G G GAGGAAGGGGGAGACACAAGCAGAGAAAGAA GACAGCCAGAAAAAGGGAGGGGGAGAAAGGAGGAGAGGAAAC
 $C C C G G A A A A G G A A A A G G G G A A C C A A G G G A A A A G C C G G A G G G G$ GCCAAAAGAGGAGAGAGAAGGAAGAGGGGCCAGGGAGAAAGA A A A G A GA $A$ A $A G G G G G G A A G G G G A A G A G A G A G G G A A G A A A A A A$ A G G G A G GCCCCCCGGGGACGAGGGGGAAGAGGAGAAGAAAGA GAAACGACCCCGGGGGAGGAGAAGGAAGGGGGGGAAAGGGGG G G G GAA ACCAAAAGAGGTTGGAGAAAACAGGAAGGGAAAAAG GAGGAGAAGAAGGGAGGAAGAAGAGGGAAGGAGGGCAAAAAA CA $A \operatorname{GA} A \operatorname{A} C \subset A A A G A G G G A G A G G C G G A G G G G G G G A G G G G A A G G$
 GAAAAGGGGAAGGGGGGAAAGGAGGGGAAGGAAGGAAAGGGC C C C G G A G G G A G A G A C G A C C A A G A A A G A G A T T G G G A G G G G G G A AGGGGAAAACCGGGGCCGAAAGGAAAAGCAAAAGGAAGGCCA AAAGAAGCCAGGGAAAAGGAAAAGGGACCAGAAAGAGCAAAG $A G C G G G G A A A A G G C G G G G G G A G A G A C C G G G G A G G G A A A A G A A$
 A GAGGACGGCCGAAGAAAACCGGGGGGGAGGGAAAGGGAAAG GCCAAGACCAAGGGGAGGAGAGACAAGGAAAAAGAAGGCACC CAACCCAAGAAAGAAAAGAGGGGAGCCCCCCAAGGAAGAAAG GAACCGGAAAGCAGGAGGGAACCAAGGAAAGACABAAAAGEG G G G A A G G G G G G A A G GCC G G A A A A A A A A A A A A C C G G G G G G C C G G G GAACAAGGGGGAGAGGGGAAGAAAAAGCCAGAAGGACGAA $G C C G G A A A C G A G G A A A A C A C C A G G G A G G A C C G A A A A G G A G G A$ GAGGAAGAAGGAAGGCCGAGGAGAGAGGGAAGAAGCCGAGGG A G G A A GAGAAGGGGAGGGGAACCAAGGGGCCAAGBAAGAAAG GAAAAAAGGAAAAGAAAAACCAGACAGAGGAAAAAGAAGABG GAAGGGAAAAAAAAAGGGGAAGGGGAAAAGGAAGGGGCAAAA
 A A A A A G G G G G G A A G GAA $A \operatorname{A} \boldsymbol{A} A A A A A A A A A A G G G G G G G G G A A A G$ GAAAAAAGGGGGGAAAAAAAAAAGGGGAAAAGGAAAAGGGGG G G G G G A A A A A A A A G G G G A A A A A A A A A A A A A A GGGGAAAA G G G
 AAAGGGGAAAAAAAAAAGGAAAAAAAAAAAAAAGGAAAAGAA A A A G G A A G GAA G GAAAA $A \operatorname{A} G A A A A C C A A A A A A A A G G A A G G G G C$ CAAAAAAAAGGAAAAAAGGGGGGAAAAGGAAAAAAG GAAGGA A G G A A A A A A G G G G G G G G A A A A A A G G G G G G G G A A A A A A C C A A A A A A G G A A G G G G C C G G G G A A G G G G A A A A G G G G A A C C G G A A C C G G G G A A A A G GAA $A \operatorname{GGGGAA} G G G G A A A A A A C C A A A A A A A A G G G G G$ GAAGGCCAAAAGGAAGGAAAAGGAAGGGGGGAAGGAAAAGAAA A G GAA A G G GAA $A \operatorname{AGGGAAAAGGAAAAGGGGAAGGAAGGGAAAG}$

GAAAAGGAAGGGGCCAAGGGGGGAAAAGGAAGGGGGGAACAA A A A A ACCGGAAACAGACAGACGGGAAACAGAGAGAAAAGAAG GCCGAGGGGCAAACCACAGAGACGGGAAAAAAGACGAAAAGAG GAAGGAGGAACGGGGGGGGGGAACCAGAGGGGACCCCGGGGG GAACCGGAAAAAAAAAAAAGGCAAAAACCGGAAGGGGGAAAA

 A A A A A A A G G G GTTGGGGAAGGAAAAAAGGAGAAAGCAGACCC CAACAGGGGGGAACAGAGGAGGGGACAGAGACAGAAAAAGAA GAGGGAAGGGGAGAAGGGAAGAAACGGGGGGGGGAGGAGAAG GAAAAGGGGAGGGAGAGAAAAAAAAAAAAGAGGAAAAGGGAA A G G A A G G A C A G A A A A G GCC G GAGAAAGGGAACCAAACGGGGG A A A A A A A G A A A G G G A G G A A A G TA $A \operatorname{GGGGAA} G G A A G G G G G A A G A$ G GAAAAAAAGGAAAACCGAAGAGGGAAAGGAACAACAAAGGG G G G G G A A CAGGAGCCAGAGGAGAGGGAGAAGGGGAAGCAAAG GAAACCGAGAGAGACAGCAGAGAGGGAAAACAGGAACACAGAG
 A G GAGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGAAGGAAGG GAGGAGAGGGGGGAAGGAAGAAGAGAAAGAAAGGAAAAAGAG G GACCACACGACCAGGGGAAAGGAGCCAATTAGAGEAGAGAA GCAAAAAGGGGAGGAACAGAAAGAGAAGGGGGGGGGGAGGGC CAAAAGGCCAAGGAAAAGGAAAAAAGGAACCGAGGAAAAGAA AAAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAGA G G G A A A A A G A A G G G G G A G G A G A C G G A A G A G G T A A C G G G G G G C CAAGGGGGACCCCGGAGAGCAGAGGAGAGTTGGGACAGAGAA A G G G GCCCCAGGGAAGGAAAAAAAAGGCAAAGGGGAAGAAGG G G GAACCGGGGAAGGCCAAAAAAAAGGAAGGAAAGGGCCGGG GAAGGAAGGAAGGGGAAAAGGAAAAGGAAGGAAGGAAGAACA A A A A A GAACGGGGGGGGGGAGAAGGCCGGAAAGAAAGAGA GA AAAGGAAGGGGGGAAAAAGGGGGAAAAAAGGAAACAAGGGGG G GAAAGGGAAGAAGGAACAAAGAGGGAAGGCGGAAGGCACAA G G GCA $\operatorname{CA} A G G C A A A A A A A G G G G A A A G G A A A C C A G G G G G G G G G G$ GAAAAAGAAGGGGGGAAGGGGAAAAGGGGAGGGA $\operatorname{A} A A C A A G A G$ G G G A A G G G GAAGGCAGGAGGAGGAGAGAGCCACGAGAGAAAA GAGGGGGGGAAGAAGGGGAGAGAAAAAAAAGGGGGCCAAGAG
 GACGGAAGGAAGGGAAAGGAGCCCAGAGGCCACAACAAAACA A G G GAA $\operatorname{A} G A A A G A G A A A A G C G A G C A A A G A A A G G A A A A G G G G A$ A A A A C C C G GAC G A A A A A A A A A GAGGCCGGAAAAA GAGATA GA G G A A A A A C A A A G G A G G G G G A A A A G G GAGAAC GAA GA G GAAC A
 A A G A G C C A G G G G A G G G A G G C C G G G G A A G G G G G A A $\mathcal{A} A A$
A A GAAAGGAAGGACCAGGGACCAAGGGGAAGGAAAGGGGAG GAGCCAAACAACCGGGGACCCCCGGAAAGAAGGGGAACAAAA G G A G A G G A G G G A A A A A G G G C C G G T T A G G G A A A G A G G G G G A C A
 A G G G G G G A G A T G G A G A A A A A $\mathcal{A} G G G G G G G G G G G G A G A A A A A A A$ GAGAGCCGGAAGGAAAAGGTTAGAAAGCCAGCCAGAAGGGGG GAAAACCAAAAGAAAGAGAAGAGAGAAGGGGGGGGAAGGGGG GAAA A $A \operatorname{G} G \mathrm{G}$ GAAGGGGGGAGAGGGGGAGAACAGAAACCGAAGA A G GAA A A A A G G G G A GAGAAGGAGAGACGGGGAAGAAAAAGAA A GAAAAAACAGGAGAGGAAAAAAGGCAGAGAAAACAAAAAAG G G G G A C C G G A G C A G G G G A G A A G A A G G A A A G G A A C A A G A G A G G G GAGAATGAAGAAGAGAATAGGGGGGGGGGGAAAAGAGGGAG GTTACGGAAGAGGAACCGGAACCGGAAAAAAGAAGGAAACCG GAAGGGAAGAAGGAAGGAAAAGGACGGAAGGCABAAAGBCCG G GACGCAGGAAAATAGGGGAAGGGAGGAGGAGAGA GAA GTTC CAAG $A \operatorname{A} A G A G G G G G G A G A C A G G A A A G A A A G A T T A G G G G A A G B$ $A G G C C G G G G C C A G G A G G A G G A G A G G G G G G A G G G A C A A G A A G C$

ACCGGGGGGAAACAGGGAGGGAAAAGGGGAAGAGGGGGAAAT T G G GACCAAGACCAAAAAAGGGGGGAAGGACACAGGGGAGAA A A C G A A G G A A G G GAA $A \operatorname{ACC} C G G A A G G G G A A C G A G C C A A G G C C G$ GACCCGGGGGGGAGGGGAAAACCGGGGGAAGGGGGGAAGACA GAAAACCGGAGAAAAAAAAAACCTAGCGAGAGGGAGGCAAAG GAAGGGGGGAGAAACAACCAGGGTAAGACACCAGAAGAAAAC CAGGGAAGGGGGGCCGGCCCCAAAAAAGGAAAGACAAAAGEG GAAGGAGGGAAGAAAAACCAAAGATAAAGAGAAGAAAAAACC A A G A A $\mathcal{A} G G G G G A C C C G G G G C C A A A A G G A A G G G G G G A A A A A A C$ $C G G C A G G G G G G A G G G A A G G A A A A C C A G G G G G A G G G G G G A A G A$
 ACAGGAACCGGGAAGAAAGGACGAAGAGGGAGAAAAAAAAAC A A A G A GACAATCAAGGGAAAAAAGAAGGAAGAAAAAAAAGGG G GAAAGGGGAAAAGGGGAAGACATACCAGCCAAAAACAAAGA GAAAAGGGGCAATGGGGAACAAAGGAGCCAAGGGGGGAAAAA AAAGGAAAAAACCAAAAAAAAGGAAAAGGAAAACGAAGAAGG G GAGAAGCCAAGGAAACGAGACCACAAGGAAAAGGGGAACAG A G GAGGAGGAAGAAAAAGGCCCCAAAAAACCAAGGGGGGGGG GACAGGGGGCAGGAGAAGAAGGAGGAAAAAACCAAAAAAGGG G G GAAGGCCAAAAGGAAGGGGAAAAAAAAGGAAGGAAAACCG GAATTCCAGAAGGGGAAAAGGGGCCGGGGAAAAGGAACAAAG G G G G G A A A A G G A G A GAGAAAAAAGAGAGGACCCAAAGGAAAA A G G G G G GAACCAAAAAATAAGAAAAGAACGGCCCAAAGGGGA AAAGACAGAAGAAAGGGCCCCGGAGAGAAAGAGGGAAAAGAG A G GAGGGCCAGAGAGAAAGAGGGGAGGGGAAAAACAAAGAGG AAAAAGAAAGGCAGGGGGGCCGGAGGAGAAGGGAGAGAGGGA AAAAAGGGGCCAGGGAAAAGAGGAAAAACAAAGGGGAAAGGG
 G G GAACCGGGGAAAGAAAAGGGAGAGAAAACAACCAAGGCCA AAGAAAAAAAAGGGGGGCCGGACGAAAGGAAGAAAAAGAAAA A A A A A A CAGGGATGGAGGAAGGCAGAGAAGGCCAAAAAAAAG GGGAAAAGGCCAAGAAGAAAGAAACGGACGGGGCAAAAAGAA AAAAGAAAGAAAAAGCCGGGGGGCCAAGGAAGGCCAAGGAGG CAAGGGGGGAGGAAAGAAAGAAGAGCCGGAAGGGACCGGGGA ACAGGGGAAGGAAGACCAGGGAACGGACCACGAGAAAAAGGG GACGGAAGGAAGGGGACAGCCGGGGGGGAGAGAAGAGGGGGG GAAGGAAAAGAAGAGAGGGAACCGGGGCAAGAACCAAAAAAA AAAGGCCAAATGAACAGAAGAAAACAAACGGGAAGGACAGBAA
 GA $A$ A A $C A G G G G G G G G G G G G A A A A G A G G A A A A G G A G A A A A C A A$ A G G G G A A GAGGGAAAAAGGAAGGAAAAGGAAAGGGAAAAGGG GAA A G G GAAAA $A \operatorname{Ag} \operatorname{A} \operatorname{A} A A A A A A A G G G G A A A A G G A A G G G G G A G A G$ GAAAAAAGGAAGGAAGGCCCCAAAAGGGGCCAAAAAAGAGGC C G G G A G A A A A A GAGGACGGGGACGGGAGAGAAGAC GAGACAA C A G A G A G C A G G A A G G G G G G G G A A A C A C G A G G G G A G G G A A A $G A$ G G GAA A GAAGGCCAAAAAAAAAAGAGGGGGGAGCAAACAAAC C G G A A A G A A G A TAAAA $A$ AGGAGAAGACAGGAGGGGACCAA AAA GAAGGAAAAGGAACCCCGGGGGGCCCCCCGGGAAAGGGAAGG GAACAAGGGGGAGAAGGGGAAAGAAGGAAAAAAAAAAAGAAA G G G G A A G A A C C G A G C A G A A A A G A C C GGGAGAAAGGAAA G C C G GAAGGAAAAAAGGAAAGAGGGGGAGCCAGAAAGGGGGACGAC CA $\operatorname{C} G A A C A A G G G G G G A G G G G G G G A A A A C C G G A A C C G A G A A A G$ G G G A A A A G G A A C A A A G G A A G G A A A A G G G GAAC CAAAA A G G G A AGGAAGGAAAACCCCAGGGGGGGAGGGGAGGGGGGAAAAGGC $C G G A G G G G G G G A C A G G G G G A A A A C A G G G G G G G G A A A G G A G A G$ A G G G G GACCAAACAGAACAAGGGCCGGAGAGAAGAGGCAAAC C G G A A A A GAGAGACAAAAAAAAAGGAAGGAACCAAAAAAGGC G G A A G A A G G G G C C G A A G A G A G G G A GA $\mathcal{A} G G G G G G G G C C G A G A G$ $G G G C A C C G G C C A A G A G G C C G A G G C C A G A T G A A A G G G G C A G A G$

GAAAGAGCCAACGGGCAGGGGAAGGGGGGGGGGGGGAAAAGC C GAAACCGGCCAAGGCCGAGGGAGGAAAAGGAAAAAGAGAAG G G G G G A GCC G G A A C C C C G G G GCCAA G G G G A G G G C C G G G A G G G AGGAAAAAGAAGGAAGGCCAAAGAGAGAGACGGAGGAGGGAG ACAAAAAAACAGGAAACAGGGGGAGCCGCGGAAAAAAAAAAA A A A G G G GAAAA A $A$ A A A G GAAAAGGGGAAGGAAGGGGACAAAA G A GAGGGGCCAACCGGCACCAAGGGAGGGGAGAAGGAGAGGAA GAAGAAGAAGGGGGGGAAAGAAAAGAGAAAACCGAATGAAAA CACAAGGGGAAGGACGGAAAGGAGAGGGAACGGGAAACAAGB GCAGACAAAACCAGGAAAAGGGGCCGGAAGGCCACCACCAGA AAAAAGGAACCAAAAAGGGAAAAAAGGAAGGAACCAGABAAG A GAGAGAGAAAAAGGCAGAGAACCCAGGAGAAGACGGAAAAC C G G A A T T A A A A A C G G G G G A A A A A A A G G A A G G C C G G G G G A T T A A A A G G G G G GAA A G G GAAAA A G TA A C CAA GAG GAA A A G GA G G G A A G G G G G G G GAA $A \operatorname{GGGCC} G \mathrm{G}$ GAGACCCAGGAGGCAGAGAGAAAA A A TAGAGAAAAAAAAGGGGGAAGAAAAAGAAGAAAGAAAAGA

 A GAAAGGAAAGAAGGGGGGCCAAGGGGGGCCAAAAAAAAGAG
 G GAACACCCGGAAAAAAACAGAAGAAAAGGAAGAGGGAGAAG GCGCAGGCCCACCAGAAGGGGAGGAAAGAAGAAAAGACAAGA C G G A A G G A A A A G GAGCCGGAAAAAAAAGGAAA GAGAGGAGGC C G A A A A G A A G G G G G G A G A G G A G A G A A G G A A G A A C C G G G G G G A A C C A A G G G G A A C C G G G G G G C C G G A A G G G G C C G G C C G G G G G G G GAA A G G G G G A A A C A G G G A G G G G G G G G G A A A A A A G G T T GACC A GAA A GAAGGAAGGACGGAAAGAGAGGAAAAAAGAAAAGGCCG
 A A GAGAAGGAGAAGGACGGCAGGAAAGAAACAAGGGAAACAG AAGCCGGGAAGCCAGGGGGAAAAGAGGGAAAAAGGGGAAAAA ACCAGAAGAAGAACAGGCGAAGGGGAACXAAGGAAAAABAGC A G GAA A G G G G G G GAGAAGGGGAGGGAGAACCGGGAAGAAAGA GAAAA A A GAGAAGAGGGAAGGAAAAAAGGAGGGGGAGAACAA AAAAAGGAACCCCGGAACCGGAAAAGGGAAGAAAAAAGGTTA A A A G G A A G G G GCCAGAGGGCCAAAAAAGGAAAAA GAGGAAGG GAAAAAACCCCGGGGGGAAAAAACCCCAAGGGAGGAAAAGGA G GAA A A GAA A A A GCCAGAAGAGAACCCGAGAGACCGGCCGGA A A A G GA $\operatorname{A} G A G A G G A A C A G A G G G G G G G G A A A A A G A A G G A A G G A$ G G G G G A G G A C C G A A G A C G G G G G G A A G G A A C C G G G G G A G G G G A GAAGGGGGGGAGGACGGGGAGAGAAAAAAGAAGAGGGCAAAA AAGGGGAATAGGAAAAGGAAGGGCCAAAAAAAAAAGGGAAAG G G A C A G A G G G G G G A A A G A A G G C C A G GA G G C A A G G G A C
AGCCAAGGAGGAAGCCAAGGAAGGAAAGAAAACCACAACCA A GCAACCAAGGGGGATAAAACGGAGAAAAAAAAAAGAGGAGC A G GAAGGGAAACCGGGGAACCAAAGAACCAGAAAAAACCGAA GACGAGGAAGGCCAACCCAAGAAAGGAGAGAAAAAGGGAAAG A A G G A GAGACCGAGGGGAAGGGGAAGGGGCCAAAGAAAAGAG A GAGAAAAAGGAACCGGAAAAGGCCGGAACCGAGGGGGGAGA A G G G GAAAAAAGGAAGGGAAAAAAAGAAAGACCGGAAAAGGG GAAGGCCAAGGAAAAGGGAGAAGAAAAGAGGGGAGAAAGCAG
 A G G G G A G G G G G A A G GAA A G G G C C G G G G G GAAAAC A A A A A A G G A A A A A A A A A A A GAGGGAGAACAGAGGAGAAAAAAGGGGCAAAG GAAAAAGGGGGGGGGAGGAGAAGAAAAAAAACCAAGAACGGC CAAAAAAAAAAGGAGGGAGACGAAGAAGGAGGGGGAAGAGGA A G G G G G G G GAA A GAACCCCGGGGAAAAGGGGAA GGGGGGCCA A G G G G GAAAA A A $A \operatorname{AGGAACCGGAGGGGGAGAAGGCCGGAAGAG}$ A A A A A A A G G A A A A G G A A G G A A G G G G GACAGGGGAAA A A GA G A $A G G A A A A C C A A C A C A G G G G G G G G T A G A G G G G A A A A A G A G G A A$

A GAGGAAGGGGAGGGGGGAAGGAAGGAGAACGACCGGGAGAA GCCGGAAAAGGAAAAGGGGAAAAGAAGAGCAGAGCAAGGGGA AAAAGGGGAGAGGGGAACCAAAGGGGGAGGGAAGGAGAAGAA G G GAAAAGGCCAAGAGGGGGGACAGGGAGAGGAGGAAAAGAA $A C C A C A G A G A G A G G G A G G A G G C A A G G G G G C C A G A G A G G A A A A$ A G G G G G G G G G G G G A A A A A A A G G G G A A A A A A $\mathcal{A} A G G G G A G A A G A G G$ A A G G G G G G G A G A G A GCA GACCCCAAGGGGGGGGCCAACCGGG GGGAACCCCCAAAGAGGAACAGGACAAGGGGGGGGAAGAAGG G C C G A G G G G A G A A C C G G A A A A C C G A A GC C G A A A A A A G G G A T A GAGGGAGACGGGGACCCGGGAGAAACCAAGGAAAAACGGGGG GAGACAAAAAGGAGGGAAGAAGAGAAAACGGAAAAAAGAGGG GAAGGAAAAGGGAGGGAGGAGAGGGGAACAGAACCAAAGAGA G G G A A A G A C G A G G G A A G A G A A G G A GAAC C G G G G G G G G G G A A A GAGAACCCCGGGGAAGCAGGGGGAGAAGAACGAACGGGAAAAG AAAGAAAACGGACACGGGGAAGGGGGGCCGGCCAAAAGGGGC CAACCGAAAGGAAAACCGGGGCCAAGAAACCGGAAAAACGGC A A A G G G G G A G A A GA $A \operatorname{GAA} A G G G C A G G A A A A G A A A G G A G G A G G A$ A G G A A A A G GAA $A \operatorname{GGG} \operatorname{GAAT} T A G G G G G G A G A A A A A G A A G C A G A G$ G G GAGGAGGGGCCAAAGACGAAGAACCAACCAGAGAGAAGAG ACAG G A G G A A A G G G G G G G G A A A A G G G G A A G GAAAAAA A G C A A G GAAAGAAGAGACAGAGAAAGAGATAGCCGGAAACAAGGGGA
 A A G G G G G G GAAA A A A C CAAAA A G G G CAA GAGCCAGCC GAGGG C GAA $A$ A $A \operatorname{A} G C C C A G A A C A A G G A A A A G G G G G A G G G G G A G A G G G$ GACATGGAAGGAAGACAAGAAAGGGCCAAGGCAAGACAAAAG G G GCCGGGGAAAAAAAAGGGAAAAAGAAGGAAGGGAGAAAGG G GACAAGAAAAAAGGACAGGGGACCGAAGAAAAAAAAAGAAA A G GAACCCCCCGGAAAACCAGAGAGAAGGAGAGGGGGAAAAG $A C C A G G G A G A A A A G G C C G G A A C C G G G A G G A A A G G G G G A A A A A$ GAGAGGGGAGGGGAAAGCCGGAAAGGGGAAAAAGAGAGAGGA G G G G A G G G G A A GAC CAA $A \operatorname{AGAA} G G G G G A G G G G A G G G A C A A A B C$ $C \subset A G G A A A G G G A A C A A G A G A A G A G G G G G A G G G A C A C C G A C A A$ A GAGGCC C GAGAAAGGCCGGGGGGGGAGGGAGAAAAGGTXAAG G G G A A G A A G A G G A C C A A G G G G A G G G A A A A $\mathcal{A} G A A A G G G G G G G G$ G G G C A A G C A A G A A G A G A A A G G G G G A A G CAAA A GAAAA A A G A G A A G G A G G G G G G G G C C A A G A GA G G A A A A A G GACA A A G G G G G G C G G G A A A A A A G G A A A A G GAGGGGGCCAGGGAAGGGACCAGA GA $A C C A A G G A A C A A A G A G G G G G G C A A G A G A G G G G G G A A A A A C A A$ A G G A A A A A GCCAGGAAAGAGGGAGAAGGAAAGGGGGGCAAAA A G G G G A A A A A A A A G GAA $A \operatorname{GA} A G A A A A A C A A G A G G G G G A G A A A C$ A G G G G G G G GAAACCCAGCCGGCAAGGAAAGGCCAGACGGGGG G G GCGAGCCGGAGGGGGGGAAGGGAGGGGGGGAAGAAAAAA A A A G G G G G G G G G G A GCAAGAAGGGGAGGAAGGAAAA AAAAA $A$ GA $\mathrm{A} G \mathrm{G}$ A A A A A A C A G G G A A G G G G A G G A A G G G G C C A A G G G G G G A A A A A A A A C C G G G G A A G A G G G A A GAC G G G A G G G A A G G A G G A G A G GAAAGGAAGGAGGGAAAGAGAAGATACCAAAAAAAAAAGGA GAGAAGGGGGGGGAAAACCCCCCAAAAAAGAAAGGCCAACAA A GGAAAGAAGGAGAGCCGAGGAGACGGAGGGGGAGAAAAGGG GAAAGACGCAAGAATAGCAGGCAAAGAAAAGGGAAAAAAAAA AAAAAGGGGCAGGGGCCGCGGAACCGGAACACAAGAAGAAAG GAAAAGGAGCCGGAAAGCCGGCCGGCAAAAAGAAAAAAAGEC CAAGGAGAAAGACAGAAAAGGCCAAGAGGGGGAAGGAGAAGG
 GAGGGGGAGGGCAGGACGGGAAGGGCCGGGGGGGGACCCACA CAAA $A \operatorname{ACA} A A C G G G A G G G G C A C A A A A A A A G G G G A G C A A G G G A$ $G C C G A A A G G A C A A A A G G G A G G A A G G A A G G A A A G C C A G A A G G C$ C TAA A GAGGGAAAGGCCAACAGAGAAAAAGGAAAAAAGGGGG $G C A A A A A A A C C G G G G C C G G G A A A A A A A G G G G A G G G G G G A A A A$ AAAGGGAGGGGAACCAAAAAACCAAAGAAGGAAGAAGAAAGA

A G G G G A A A A A A G GAGGGAAGGAAGGAGAGGAACGAAACCGGT TAAGGGGAAGAGGAAGAGGAGAGAGGGAAAAAAGGCAAAA G $A \operatorname{A} A$ G G G G G T TCCGGAAGGAAGAGACCCCGAGGGGAAGGGAAACAC C G G GAAAACGGCCAAGGAGAAAAAAAAAAAAAAAAGGCAAAA $A C C A A A A A C G G A A G G C C A G G G A A A A C A G G G G A G G G A G A G G G C$ AAACCAGCCGGAAGGGGACAAGGAAGGAACCAAAAAAGAAAG G G G G A GCGGCAAGAGAAGGCCCCAAGGGGAAAAGAGAAAGAG GAAGGAGAGAGGGAAGGGAAAGGGGAAAAAAAAAAAAGGGGA $A G G G A G A A A G G G G G G A A G G A C A G G G G G A A A A G A G G A G A G A C C$ CAGCAGGAAAAGAAGGGAAAAGGAAGGAAAAAAAGAGGGAGA

 C G G A G G G T TAAAAAAAGGAGACAAACCAAGAACAAAG GACAAA A T T G G A G G G G A A T GACCGGAAGAAAGGGGAGGGAGGGAAAA G G GAA A G G G G G G A A GAAAAAGGAAGAAACAAGAAA AA AAAGAAG AGGCCGGCGCCGGGGAACAGAAGAACCGGGAAGGGAAGGAAA
 A G A A A G G G GAGCCAGGAGGGGCCGGAAAAGGGGAAGAAAGGG $G G G A A A G G G A A G G A A A A A A G G G G G A G G G G A A G G A A C C G G G G A$ G G A A A G G A A A A A A GAGAA AGGAAGGCCGGAAAACCAGGAGGA G G GAGGGGGAGAAAAAGAAGGAGGGAGAGAAGGCCAGAACAA G GAGGCCCACACCGGGGGGAGGGGGCCAAAAAAGGAGAGAGA G G G A G G A G G G G G G C G G A C C C C A A C A A G G G G G G G G G G A C A G $\mathcal{A} A$ C G G A A GAAC $A \operatorname{A} G A A G A G G G G C C A G G G A A G G G A G A A G A G A A A A G$ A A G A G A A C C G G GA $\mathcal{A} G G G G G G G G A G G G A G G C C G A G A A G A C G G G$ GAAAAGAGACCAGAAAAGGGGAAAGGGAAGGACGGAGAGAGG G G G G GCAAAGGAAAAGGAAACCCGAGGAAGAAAGGAAGAGGG GAACCAGAACCGAAAGGAAACCCAAGAGGAAAAGGAAGAAAA A G G A A A A G G G G G G A A C C G G G G G G G G G G G G A A A A G G A A C C A A A A G G A A A A $\mathcal{A} G G G G G G G G G A A G G G G G G G G G G G G G G C C A A G C C C B$ GAA $A \operatorname{GCC} C \subset A A G G A A G G G G G G G G A A A A C C A A A A G G G G G G G G C$ $C G G G A A C A G A G A G A G A A G G A A G G A A G G G G G A A C G G C A A A G G A$ GAGGAGAGAGAGGAGAGAGAGACGGGGACAGGAAGGAAAGGG GAAGGAGAGAGCCGGAAAAGGGGAAGGAGGAACAGAGGAAGC C G G A A A G A A G G A A G A A G A A A A A A A A GAGACAAA AAA GC C G G A GAAAAAAAAAGAGGGGGGGAAAAAGAAAGCAGGACGAAAAAG G G GAA A G G G GAAAGAGAGGGACCGGCCGGCCAAAAGAACAGC CAA $A \operatorname{GA} A A A G G G G G G A A G G A A G G G G G G A A A A G G G G A A G G G G G$ GAAAAGGGGAAGGCCAAAGAAGGAGAGAGGAGGAGGGGAAAA
 G G G A G A A G GAAAAA A A G G G GA G GAA A A G G A G G G G G G G G G G G C CAAAGGGGGGGAAGGGGACAACAGAACAGACAGGGGG
CAAGAGGAAACCAAGACAAAGGGAGGGGACAAACAGGAGGA ACAAAGGGGGGAAGGCCAACCAAAAAAAAAAGGAAAAGGGGA A G GAA A GCCGGAAAAAAAAAAAAAAGGGGAACAAAGGGGGGA A A A G G A A G G A A A A $\mathcal{A} G A A G G A A G G G G G G G G A A G G G G G G A A A A A$ A G G G G G G G GCCCCCCGGGGCCGGAAGGGGCCAAAAGGGAAAG GAAAACCGGAAAACCAAGGAAAAGGAACCGGGGGGAAAACCG
 GCCAAGGAAGGCCAAAAAAGGGGCCGGAGGGAAGGTTGGGGA G GAGGAAAGGGAACCGGAAAGGGAAAAGGAGAAGAAAAAAAA GAGAACCAAGGAAAAGGGGAGGGCCGGGACCCCGGAAAAAAG GCCAG G G G A A G A G G A A G A T G A G G A G G G A A A G G A G A G G G G G G T TAGGGGACCGGGGGACGGGGGAGGAAGGGAAAAGGGGGGAGA AACGGAAGGAAAGGAGGGGAGAAAAGGAACCCCAAGGAGAGA GAGACAGGGGGAGAGCCGGAAAAAAAAAGAAAGAAAAGAAGA $A C C G G G G C C A A G G C C A G C C A A C C G G G G G A A A G G A G A A G G G G G$ A A GAGAGAAACGGGGGGAAGGAAAAGGAGGGAAGAAAGAAA G GAGAAGAAAAGGAAAGGAGAGAGGAGAGGAAGGGGGAAATAA

GAGAGCAAGCAAGCCAAAAAAGGGGAAAACCGGGGAAAGGGA
 C A GAA A G G GCCAAAAGGGAAGGGAAGGAACCAAGGA GA G GAAA GAGACAAAGGGAGAGGGAGGAGGGGGGGAGGGGGGGGGAGA$G$ AAAAAAAAAGGGGAGAGGGAAAGAGAGGAACGGGGGGGACAA
 GAGCAAGAGGGAGAGGGGGAAGGGAGAAGACCCGBACAAAGG G G G A A G G C A G G GA G G G GCC GAGGGAGGGGCCGGCAGAGAAGG GAGAGCCGGACAGGGCAGGAAGAAGGGAACAGAAGGAAATXA CAGGGGGAGAAAAAAAAGGAAGAAATTAAAAGGGGGGGGGAC CATACAGGAAGGGGAGGGGAAAAAAACGAGGGACAGGAGAAA A A A A A A A G G G G A A A G G G GACCGGAAAGAGAGCCGAGGGAA GA A G GAAA A G G G G CAAAA A $A$ A $\operatorname{A} A A A G G A A A A G G A A G A G A A A C A C X A$ $A C C A C A G A G A G G G A G C C G G G A G C G G G A G A A G A A A A A G G A G G A$ G G A G A G A G G G G G G G G G G G G A G A G A A G G C C G G A A G G G G G A G G A AAAGGAAACCAAAAAAAAAGGAGGGCCCCAAGGGGAACCCCG AACAAAAAGAAAACACAGAAAGGAGAAAAGAAGAAA GAAAAA A A A G G A A A A T T GAA A G G GAGGAAACGCGGAGGAA G G G GAA G GA $G G A A G A A G A G G G G G G A A A A A A G G A A G G A G G G A A C C A A A G G G G$ GAAAAGGAAAAGGAAAAAAAAAAAGGGAGACAAGAGGAACAG $G C C A A A A A G A A C C C C A G A A A A C C G A T A A A G G C C G G A A G G G G A$ G G G G G G G G G G G A G G G G G C A A G A A A A A GAA A A A CAC GAA GA G A GAGGGAAGACAAAGGCCCAGAAGGAGGAAAAAAAAGGGAAAG A A A A A A A CCAACCAAGGGAGGGGCCAGGGAAGAGAGGAAGAA A A G A A G G G G G G A A A G A GAACCAGAAGGGAA GAACAGGGAGA G ACCGAGGGGCCAAGGAAAACCGGAAAAGAAACGCGGGGAAAA GAAAAAAAAGGCCAAAGGAGGGAAGAGCCGGGAAAAAAAGAA $A G G A A G G A A G G A G G A G G G G A G A A G A G G G G G A G G G A G G G A G G G$ GAGGAGAAAAAGGGGGGAAGGAAAAAAGACCAGGGAAAAAAA GAAACAAAAAAGAAGGAGGAAGGGAGGCCGGAAGAAACGGGC CAA GAA G GAAAACCCACACGAGAGGAAAAAAAAAA GAAAGBA AAAAAGGAAGGGGGGAAGGGGGGAAGGAAAAGGCCGGGGGGA A G G A A G G G G A A A A A A A A A A G G G G G G G G G G G G G G T T G G A A C C C C G GCCAAAAGGCCGGAAGGGGGGGGGGAAAAAAGGGAAAGGG G A A G G A A $\operatorname{A} G A A G G G G G G G G G G G G G G A A G G A A A A G G C C A A C A G$
 A G G G G G G G GC C A A G G G G G G G G C C G G G G C C G G C C A A C C C C G G A A G GAAAAAAGGGGAAAAGGGGAAGGGGAAGGGGAA GGGACAA A G G A A A A G G A A G G A A A A $\mathcal{A} G A A A A A A A A A A A G G G G G G G G G G G G G$ G G G G G A A G G A A C C G G G G G G A A G G A A G GAA $A \operatorname{AGCCAAAACAAAG}$ GGGAACCAACCAAAAGGAAGGGGCCAAAACCAAAAAACCGGA A C C G G A A G G G G G G G G G G C C G G G G G G G G A A A A A A A A C C G G C C A AAAAAGGGGAAGGGGGGGGAAGGAAGGAAAACCAAGGCAAAG GCCGGAAAAGGGGGGAAGGCCAAAAGGGGAAGGCCCCACAAG G G G G G A A A A G G G G C C A A C CAAAA A GTTGGGGAAGGGAAAAAC CAACC G GAACCGGAAGGGGAAGGAAGGAAGGAAAAAAGGGGG G G G C C A A G G A A A A G G G G G G G G A A C C A A G G G G A A A A A A C C A A G GAAGGCCAAGGAAAACCAACCAAACGGGGGGCCGAAGCCAGA
 G G G G G A G C A G A C A G G G A A A G G A A A A G GTTAXA G G GCCCC G G A A G GAGCAGAAGGGAACCAAGAGAGAGGAAGGGGGAAGAAGGG A GAA A G G A GAAGGGGAAAAGAGAAACAAGGGGAAGAAAAAAC GAC C G A A A G G G G G G G A A G G A G G G G G G G G A A G G A G A A A G A A G G AAAAAGGGGAACAAAGGAGGGCCACGAGGGGAAAAAAGAAAA A G GAGGGGAAACAGGAAAAAAAAGGCAGAAAGGGAGGAAAAG A A A A C GAGGAGCAGGAGCCGAAAAGGAAGCAAAAACCAAGBG GAAACAGGAGGGGGGGGAGGGGGGGAAAAGGCXAA$G G G G G G A$
 AAAGGAAGGCCCCGGCAAAAAAAAAAAAAGGAAAGGAGAAAG

A GAAGAGAACAGACCGGAAGAGAACGAGAGGACAAAAAAGAG GCCCCACGGGGAGGGCCAAGGAACCAAGGAGAACCAAGGCCG G G G A A A A A GAAGGGAACGAGAGGGAAACGAGAAGGAAAACAA A G GAC $\mathrm{C} A \mathrm{~A} G \mathrm{G} G A A G A G G A A C A A G G G G G G G G A G G A A A A A A G G C$ CAAGAAGGGAAAAAAGGAACCGGGGGGAAGGAAGGAAAAGGC C C C G G G A A A G G GAAA A G G A A C C A A A A C C G G G G C C G G G A G G G G G
 CAGGGGAGACCGGGGCCGGGGACGAGCAAGGGGGGGGGAAAA A G G A G A A G A G A A G G A C A G A A C G G A G G A A G G GA G A A A G G G G G G G G GAGAACCGGAAAGAGAAGGGGAGGGGAAGGGGGAAGGGAG GAA A A GAGGAGGAGACAAGGGAAAAGGAGGGAGGAGAAGGAA A G G A A G G A A G G A A A A G G G G G G A A GAGATAAGACGGAGAAAAA
 C A A A A G G A A G G A A G G A A A G G G G A A A G A A A A A A A G A G G A G A G G G G GAA $A \operatorname{GAA} A C G G A G C A G G G G G A A A G G A G G G A A G G G A G G G G G$ GAAAAAAGGGGAACCAAAACCGGAAGGAAAGAAAAGGGGCCG A GAA A A A GAGAGGAACACCAGGAGGGAGGGGGGAGGGCAGAA GCCGAGGGGGGGGAAGGAAGGGAAAGGGGGGAA$A A A A A G G G B A$ CAGACAAAAAGGAAGAAGGGACACCAACGGAAGGGGCGACAA GAAAGAGAGTTAGAACCAACCACGGAGAAAAAGAGGAGGGGA GAGGAGAACAGAGGAAGGGGACCGAAGAAGGAAGGGGGBCAA
 $A G G G G G G C C G G G G G G A A G G G G A A G G G G A A C A G A A G A G A A G A A$
 AAAAGAAAAAGAAGGCCAAGGAAAAGGAGGGTTGAAACAAAG
 AAACCAAGGAAAAAAGGAGAAGGAAACGGACAGAACAGAAGG
 GAACGGGAAGGCCAAATCAAAAGGGGAACGCAGAAAACAGAG A G G G G G G G GAGGGAACAAAAAGAGCAAGGGAGAAGGAAAAGA C G A G G GACCGGCAGGAAGGGGAAGGAGAAAAAAGGAGGAAAA AAAAAGGAAAAAACCAAAAGAGGGAAGCAAAGGAACCAATTG GAGGGAAAAAAGAGGCCAGGGAAGGGAAAGAAGAGCAAAAAG A G G A G A G G GAAAGGGAGAGGAAGAGCCAGAGAAAAGGCAAGA A A A G G G G G G G G G A G A A A A A A GAA A G G A G G G G A A A A C C G A A G A G G G G A C A G GAGGGAACAAGGGGGAGGGAAGGCCGGAAAAGAC C G G G G G G G G A A A A T TAA A GAAGGGGTTGGCCAAAAAAAAAAA AAAGGGGAAAAAAAAAAAACCAAAAGGAAAAGGGGGAAAGGA G G G C A A A G G G A G G G G G A A C A A A G G A G A A G G GA G G G G G G G A G A
 $G G A A G A C G A G A G A G A G A G G C C A G G A A A G G G A A A C A A A G G C C A$ A G G G A GCAC $\mathcal{A} A A G C C G G A G G G G C A A G G G A A G A C A G G G$
CAACAAAGGAAAGGGGGGAGACAGAGAAGGACGAAAGGGGA
 GAAAAGAAGAAAAAGAGGGGGGGGGGGAGAAAGAAGAAAGAA A A A A A A A G GAAAAAAGGGGGGAAGGAAGGAAAACCAAAAAAA A G G A A G G A A G G G G G G A A A A C CAAAAGGAAAAGGAACAAAAAG GAA A GAAAAAAGGAAAAGGAAAAGGGGGGGACCGGAAAAGGG G GAAAAGGGACAAGGAAGGAGAAAAAAACGGGGCGAAGAGGA GAGGGAAGGCAGGAGGAACGAAAGGAAAAGACAAGGAAAGBA G G G G G GAGGAAGGGGGGAAAAAGGAGGGGAAAAGGAAAACAA A GAACGGCCGAAGAAGGCCAAAAGGAGAGGGGGAGCCGGGGA G G A A G A G G G G G G A G A G A G G A A A A C C G A G G G GA G G G G G C C G G G G G G A G A A A G G G G G G G G A G A G G A G A A A A A A C A A A A G G G A A G G A $G C \subset A G A G G G C G G G A A G G C A A A G G G G A A A A A A G A G A A G A G A G G$ A G G A A G G A A C C G G G GAAAGGGGAGAGGACAAGACCCCAAAAA A G G G G G G A A A A G G A A A A GAGGAAAAAGGGGGGGAAAAAACAA $C G G A A G G A A G G A A G G C C C C G A A A G G G G A G A A G A A A A C A C C A B$ $G G G A A C C G G A A A A G G G G G G A A A A A A G A G G G G A G G G A G A G A A A$
$G C C C C G G C C G G A A C C A G G G G G G G G G A A G G G G A A G G G G A A C A G$
 G GAGGAGAAGGGGAGGGAAAAAAGGAAAAGGGAGAAGGAAGA ACATAGGGGGAGAAAACAGAAGAAAACGACAGGGGGAGAAAG G GAGGGAA G GA G GA GAACAGAAAGGGGATTTGGGGGGGGCCA A G G GAA $A C C A A G G A A A C G G A C G G G A A G G A C C G A G G A A G G G G A$ A A A A A A A A A G G A A A A A G GAAAGGGACCAGCCGA GAAGGGGGA GACGGAAGGAAAGAAACGAACAAAGAAAAGGGGGGAAAAGGT T G G A A C C A A G G GA GA GAGGCCACGAGGGAAAAAAACC GAGGG AAGGAGGGGAGAAGGAACAGACCAAAAAAAAGGGGGGAGGAG AAAGAGAAAGAAAGAAGCCTAGAAAGGGGAACCGGGAAGAGA GCCAGGGAGAAAAATGGAGACAAGGGGAAAACACCGAAAAGA AAGCAAAAAAAAAGGAAAACAAAAAGGGGGGAGACAGGGATT A G A G A A G A GCCGGCAA GAGGGCATTAACCGGAAGGGGGAABC A GAGAGGTAGGAACCGAAGACGAGGACGAAGAAAAGGGCAAA
 GAAAAGAACAGGAGAAGGGCCGGGGAAGGGGAACAGAAAGAA A A GAGACCCAGGGAGAAGGAACCAAAAGAGGCCCCGAAAAAG GAAAAAAAAAAAAAAGGGAGAAAAAGAAGAGAGGGAAAAGGG GTACCGGAAGGAATAAACGGAGACCAAGGGGAAAGAAAGAAA AAAGGAAGGGAAGAGAAGGAACCGGAAAACCGAGGGGGAAAA A G G G G A A A A G G CAA A A G GAAGAAGGGGGAAGGGGCAA GAAAA
 A A G G G A A G G A G G A A A G G G G A A A A G G G G G G A A C C A A C C A G A G A C G GCAGCGACCGGAGAAGAGGCGGGACGAGGGGAAAAAGGGG GCCCCAACAAGAAAACCGGAAAAGAAGGGGGGGCCAAGEGAA G GAGGAAGAAGAAAAGGGGCCCCGAAAGGGGAGAGGACAAAC A GAAA A A GAAA $A \operatorname{A} G \mathrm{G} A A A A A G A G A A G C C A G A G G G A G A A G G G A C$ A A A G A A G A G G G G A C C A GAC GAGGGAGGGGGGAGGAGCAC CAA G GAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAGAAAAGA G GAAGGGAAGGAAAAGGCATACACCAAAACCTAGGAGAAAAA ACAGGAAAAGGGGGGAAAGAAACCAGGGGGGCCAAAACAAAG GCCGGGGGGAAAAGGAACCAAGGACGAGGAAGGGGAGGACAA GAAGGGAAGGAGGGGAGAGAGCCGGAGGGACGAGAAGAGGGG G A A A A A A A G A A A A T TAA $A \operatorname{GGGGGAAGCAGATTAAAAAAGACCC}$ AAAGAAAGAAACCAACCAAAAGGGGGGAAGGAAAAAGGAACG G G G G GCATTGGAAGAGGACGCACAAAGAAAGTAAAAAGGGAT TAAACAACCAAAAAAAAGGGGAAGGGGGACAAAAGGGAAGBA
 A A A A A A A A A G G G G G GCCGGAACCGGAAAAAACCAAGGGAAA G GAAAAAAAAAAAAAAAAAAAAAAGGAAAAAAAACCAAGGGGA A A A A A A A A A A A A A A A A A C CAAGGCCGGAAGGAATTAAAA G GA A A A A A G GAAAAGGAAAAAAGGCCCCGGGGGGGGGGCCGAAAG G G G G G A A G GAA G GAAAAAACCGGGGAACCCCAAA GAAACA GA A G GAACCGGAGGCAAGGAGAGAAAAAGGGGGAAAGAGAAAGA G GAGAAAAACCAAACAGGGAAAAAGAATTGGGAAAGAAAABC CA $\operatorname{A} A \mathrm{~A} A \mathrm{~A} C \mathrm{C} A C A G G G A G G G A A G A A A G G A A C A G G A A G G A A A A C$ A GGAAAAAAACGGAAAAGGAAAAAAGGGGAAGGGGAGGAGGG $G C C G G A A G G G A G A G G G G G A A G G A G A G G C C C A G G A A G G A A G G G$ GAAAAAAAAAAGGAAGGCCAAAAGGGGGGAAGGGAGGGAGAG A A A A A A A A G G G A A A A C C G GAGGGACAGAGGGAGAAAACAGGG GAAGGGGGAGGACGGGGAAACAACCAAGGAAGGGAGAAAGGA CAA $A \operatorname{GAA} \mathrm{~A} G \mathrm{G} A C \subset A A A G T T A A A G G G A A A A G A A A A G C C G G G G A$ GAAGAGAGAGGAACCGGAGCCGGGGAGAAAGAAAAGAAACCG GAGAAAAAAAGGAAAAAAAAAGAGGGAGGGGAAAAAAGAAAA $C G G T A C C A G G G C C G G A G C C G A A A G G G G A C A A G G C C A G G A G G A$ ACCAAGGAAACGGAAAGAGGGGGAAGAATCCGAGGAAAACAA A A A A A A A G G G G A A A A GAC CAA G G G GAAAA AAC C G G G G G G G A A $A G G G G G G A C G A A C G G G G G A G G G G G G G G A A A A C C C C A A G A A A A$

GAAGGAAGGAGAGAGAAAGAAGGGAGGGGCCCAAGGAGGGGA G G GCC GAG G G G A A G GCCAAAAC GAAAAACGAGACCAGGGGGG AGACCGAGAGAACACGGAACCAAGGGAAGGGCGGAGAGAAGAG A GAA A A GAGCCGGAAAAGGAAAAGGCCGGCCGGAAGGGAAAC A G GAAAAAAGGGAAAGAGGGGAAAAAGAAGGGGGGAAAAAAC A GAGAGAAGGAAAAAAAAAGAAAGACAGAGGGGGGGAAAAAA
 GAAAAGGGGAACCGGAAAGCCAAGGAAAAAAGGAAGGGAAAA
 $A C C G G A A A A A A A A A A G G C C A A G G A A G G G G A A A A A A G A G G G A G$ GACAAAGGGGGAAAAAAAGAGGGGGGAAAAAGGCAGAAAAAG A A A A GAAAGCAGAAGAAAGGGAAAAAGGGAAAAGGAACAGAA ACACCACATCCACCCGAGGGGAAAGCAGAAGGAGGGBACAAG GAGCCGGGAAAGGAGGACCGAGGAGGGGAGGCCAAGAAAAGA AAAGGAAGGGGCCAAAAAAAAGGAAAAAAGGAAGATTAAGGG G G G GAGAGAAGAGAAGGAACAGGAAAAGAAGGGCCAAAAGBA $A C C G G G G C A A A G G G G A A A G G G G G G A G G G A A A A A G G A A A A G B A$ GAGACGGGGAGGAGGGGACGGGGAAAGACAGAACCGACAAAG
 GAAGGAGCAAGGGAGAAAAGGGGGACAGAAAGGAAGAAACAA AAAAGACGGGGGGAGAGAGGGGGGGCAAGTTAGAAAAAGAAA A G G G A G A A GAGGAACAGGGGGAACAGGGGGGGGCCAGAAAAG G G G A C G G A G A A A A G A C A A A G GAGGGGAGGTAAA GAGAAAAAG A A A A A C C A GAAAAAAAAGGGGAAAAGGAAGGAAA GAAAAGGG $A C C A A G G G G G G A A G G G A A A A G A A G G C C G A C G A A G G A G A G A G A$ A G GA GCCGAACAAGGCAGAGAGAGAGGAGGACACAAAAGGGG A G G A G A G G G G G G G G GAGGGGGAGAGAAAAAAAAGGAACAAA G
 ATTAAAACCCCGGGGGGGGAAGGACACGAGAAACCAAGAATA $G G A G A G A G G G A A A A G G G A G A A G G G A C C A A G G G G A G A G A G G G G$ $G G A G G T T C A C G G G G G A G A A A A A G G G C C G G A A A G A A G G A G G G G$ G G GCCAAAAGAGGCGGGAGGAAGAAGGAAGGGAGAGAAAGAA A A A A G G G G G G G G A A G A GCGAGAAGAGGAGTTCCGGGGAAGAA A A G G A GAA $A$ A A A G G G GAGGGAGAACCAGAACCAGCAAAAAGAA A GAA $A$ A A G GACCAGAGGAACCCCAACCTTCCGACCGGGAAA G G G G A A A A $\mathcal{A} G G G G G A A A A A A A A A A G G G G G G G G C C B A A A G A G G G$ A AACCGAAAAGGGAAGAAAGAAAGGAAAAGAAAAGGGGGGGA A A A A A ACAGACAAATGAAAGACAGCAAGAGGCGGGGAAGGAG A A A A ACCAAACGAAGCCGAAAGAACGGAAAAACAAAAAGGGA GAAAAAACAGAAAAAAAAAGGGGGAGAGAAGAAGGAAGAGBA AAAAGGGACACGGAAGAAGGGCCAAAGGGAAGGGGGGGAAAG G G GCC G G A A G A G A A G G G A GAGGAGGAAAGAGACAAAA
G G G G A A C C A A G G G G A A G G G G C C A A G G A A G G A A T A A C G G A A G GAAAAGGGGAAAAAGGGAAAAGGCCGGGGGGAAGGCCABAAG A A G A G A A G A G G A G A G A A T T C C G A A G G A A G G A T T G A G A A GAAC CACAGAAAAGGGGAAAGAAAACCGGGGAAGGAAAAAAAAGGG $G C \subset A A G G G G C C A A G A C A G A A A G G A G A A G G C C A G A A A G A C G G G$ C G G G GCCGGAAAAAACCAAGGAAAAGGAAGGAACCGGCAAGC $C \subset A C C C C A C G G A A G G C C G A G G A G G G G G G A A A A C C C A A A A G G G$ G G G C C A A A A A A G G G G G A G G A G G C A A G G G G T T G G G G G G A A A A A G G G G G A G A A G GCCAGAAGAAGAGGAGGCCGGGGAGAGACAAC C G G GA GAGAAAAAGGAGAGGATTGGGAGAGGAAAGAGGGCCA GA $A$ A A $A G G C G G G G G G G G A G G G G G C C C C G A A G G A A G G A A G A C G$ GCCGGAGACAGAACAGGGAAAAAGGGAGAACAAAGAAGAGGG GACGGAGAGAGAGGGAGAGGAAGGAGGAACCGGGGCAAAAAG $G C C A A A A A A G G A A C A A G A A G A A A G G G C G G G G A G G A G A A A G G A$ GAGAAAGGGAGAAGGAAGGCCACGGCCCCGGAGAGACGGGGA A G GCA GAACGAAA GAGGCGAAAGACAGAAGAAAGGGGGACAA G G G G GACGGAGCCAGAAGGAGGAGGACAGGGAAAAACAAAGA

CAC GACAAAGGAAGAAGCCGGGGGGAAGACCGGGAGGGGAAA
 GAAAGAAACGAGGAAAAAAGAGGAGAGGGGGGGCCGAAAGAA
 GAAAAGGAAGGGGAGAAAGAGGGCCGGACAGGGGGGGGAAGA

 C G G A A G G G G G G A GAAA $A \operatorname{AGGCCGGGGAAGGGGGGGGAAA} G G G A$ AAAGGGGGAGAGGGAAGGAGAACGACCGAAACCGGGGAAGAA AGGGGGAGGAAGAGAGGAAAAGGTTAAGGAGAGGAAAGGGGA
 A G G A A A C A A G G GAA A G GAGAAACAGACAAGAGGGGGGAGAAC C GAA A A A G GCCGGAAAAAGGAAAGGCAAGAAAAAGGGGGGGA T G G G G G G A A G G G A T T A A C CAGGGAACCAAAAGGAA G GAAAAA GAAAGAGGGAAAGAGGAGGCCCCGGAACAGAAACCGGAAGGA ACCGGAAAACCCCGCAGAACAAGCATTGAAAACGAAGAAGAA GAGGAAAAGAGGGGGGAGGGGACGGAAAGGGGAGAGAAAAAG GCCCAAGGACCGGAAGGAAAGAGAGGGAAAACCAGGGGAGGG G G G GAAGGGAGAAGGGGAAAAAAAACAACGAAAGGAGGAABC A G A A G A A G G G G A A A A G G A A A A C A A GAGAGGAAAAAAAAA A G G GAATTGAGGAGAGAGGAGGAAGGAAAGAGGAGGAAAAGGGGA A A A A GAAAACGACAGAAAAAAGAAGCCACAGGAAAAACAAAA $G C A G A A A G G A A G G A A A G A G G A G A G A A G A G G G G G A A A A G A C C A$ G G G G A C A G A A A G G G G A G A A G G G G G A A A G G G A C A G GAA G GAA A A A A A TA $A$ A GACCCAAAGGGACAGAGCAGGCCAGGGGGCCBAA A GAGGGGGGAAGGAACCGACCAGGAGGGAGAGAGAGAAAAAA G G GAAACGACCGAGGAAAGAAAGACAAGAGGGGGGGATAAAG G G G G A A G G G A A GAA A G G G A A A C A G G G GACGGGGAAAAAAA $A$ A A GAAGGAGAGCAAAAAAGAGGGAGGGGAAGGGGGAAAACCCCA A G G G GAAAAACAGCCCCGGAAAAGAAAAAAAAAAA GAAAAGG G G GAA $A \operatorname{GAAA} G \mathrm{~A}$ GAAAAAACCGAAGGAGGAGGAAAGGGGGGAG GAACCAAGGAGGAGGGGGGGGAGGGGGAAGGCCGGAAGGGGG A G G GAGGGAAAAAAATACAGGCAGAGAGAGACAATGGGAAAG A G G G G GAGGCCAAGAAAAAAGGCGGACAGAACCAACCCACAA A A A G A G G A A G G G G G A G G G G A A A G A G G G A A T T G G A C A A A A A A GCCGAAAGAAGGGATAGCCGGAAAAGAGAAAGGAATTAAAAA AAAGGAAGGGAAGAGCCAAGGGCCCAACCGGGGAGCAAAGGA AAAAAGGCAAGGGGAAAAACCAGCCAGAAAAGAAAAGAAAAG ATTAAGGAAAAAGCCGACAGAAGACAAAAAAGGGGGGCAACA GTTAAAGAAAAGGAAGGAGAGCGGGAAAGGGCCGGAAGAA GA A GAGAGGGGGAGAGAGAAAAAAAGAGAAAAGGGCCAGAAAAA A G G A C A G A A A G A G A GAGAGGGACAAGGTTCAGGCCAAGAAAA A A A A A A A ACGGAAAAAACAAGAGAGGGGGGGCGGGAGACCCG A G G G G G GCCCCAA G GAGCAAAAAAAGAAGGAGGGAGGGGGAA GAACAGAGGGAAAAGGAGAGGTTGGGGAAAAGGAGAAGAABA A GAGGAAGGAAACGGCCGGAACCGGAAGGAAGAGAAAGGGGA A G GAAAACCGGCCAAAACCCCCCGGACACGGCCGAAGAAAGG AAACCGGAAGGAAAAAGAGGGGAAAAAAGAAGGGGAACAGGG A G GAGAAAAAACCGAAAAAGGAAAAGGCAGGGGGGGGGAAAG A A G G G A A G A A $\mathcal{A} G G G G G C \subset A G G A G G G G A A G G G G A A A A G A A G G G$ G GAG $A \operatorname{G} \operatorname{GA} A A C G A G A G G G G G G G A A G G G G C A G G A A A G A A A A A A G$ GAAAAGGACCGAGAGGGAGAGACAGGGGGCAAAAACCTXAAG G G G A A C C A A G G A A A A G G G G G G A A A G G A A A G G C A G G A G G G C A G GAGGAGAGGAAAAGGAGATGAAGACGAAGCAAGGGGGAGCAA G G A A G A A A A G G A G G G G A G G G G A A G G G G A G G A C C A G A A G G G G G A G GAA A A A A GAAAGGGAGAGAAGGGAAGGAAAA GAAAGGCCA

 GAAAGCACGGGGGGGAAAGAGGGAAAGAAGGGAGGAAGAAGG

A A GAC GAA A AA GAGAGAGAGGAGCCAAAAGAGGGACAAAAAC C G GA GA GAAAGAACAAAGAAAGGGGAAAGAGAAAACCAAA G G $A$
 A A G GAGGAAGGAAGGAAGAAGAAGGTAAGACAGCCGAAGAGA A A A A GA A G G G G GAGGGGAAAACCGGGAGCGGAAAGAAGAAAG G G G G A T A G G A A C C G G G G A G A A G G G A GAAGGAAAAACCTXGA G GAAAAAAAAGGAGAAGGAAGGACACAGAAAGCAAGGAGCABA CAAAAGGAAGAAGAGAGGGGGAAAGGGCAAGGAAAAAGGGGA AAAAGGAGAAAAGGAAGAGGGGGGAGGGAACGCCCACCAAAG AACGAGAGGAAAAAGAGCCGGAGACAAGGAAGGGGGGGGGGA A T T G G G G A A G G A A A G G G G G A G G G C C C C A G GAA $A \operatorname{A} A C C A G G G G$ ACCGGAGAAAGCCGAAGAACCGGGAGAAGAAACAAAAGAACA GAGATAACCGAAAAGAAGGGAAGAGAAAAGGAAAGAAGGGGC CAAAAAATTAAGGAGGGGAAAAGAAAAAGGAAGGAGCGAGAG A GAAGAAGGAGAAGAAGAGCCAAAACCAAAAACAAGGGGGGG

 CAACCGGAAAAAGAGAAAAGAAGGGAGGGGGGGAAAGACGBA A G G G G A A A A A GAA $A \operatorname{AGGACAACGGGGGGAGGGGGAGACGACAA}$ GAGAGAGGACAGAGGAAGGGGAAACAGAAGGAAGGAGCAAAA AAACCGGGGAGAAAAAGCAGGAAAAGAGAAAGGGGCAGAAAG A G GAAAACAAAGGAACCAGGGACGGGGAGGCAAGGGGCAGAG G G GAA A G G G G G A A GAGGAGAGGAAAACACGGCAAAAAAGGAG GAGAGAAGAGGGGAAGGGGGAGAGGCCGGAAAAAGAGABAAG G GAA A G G G G G G G GAAAAAAAAAGGAAAGAAACGGAGAACAAAG A GAAGGAGGCCAGAAAGCCAAACAAGGAAAGCCAAACAAGAG A GAACGGGCACGGAAAAAGAGAGCCAAAAAGAAAAGGAAAAA A G GAACCAAGGAAAAAAAAGGAAGGGGAAAAGGAAAAGGGAA A A A A A G G G G A A A A A A G G G G A A A A A A G G G GTTGGAA G GAAAA A GAAGGGGGGGGAAGGAAAGCAGGGGGGAGGGGAAGAAGAGGA A G G G G A G A A G G A A GAACAAAAGGCCGGACGAAAAAAGCCCAA GCAAAAAGGGGAAAAAAAGGAAAAAGGCAAAGGGACACCGGA
 GCAAGAAGACCGGAGAGGAAAGGGACCAGAAAAGGGGAAGGG GAGAAAAAAAAGGAGAAAAATAGAAAAAGAAAAAAAAAAGGG GAAAAAAGGGGGGAAAAAAAAGGAAAAGGGGGGAAAAAAGGA A G GAA A GAAGGCCGGAAAAGGAAAAAAGGAAAAAAAAAAGGG GAAAAAACCGGAAAAGGGGGGGGGGCAAGCAGACCGACCGGA CAGACGGAAAGGACCAGAAGGAAGGGGGGAACCAAACCCGGG GAA A A A C G G G G A A G GAA $A \operatorname{AGGGAA} G G A G G G A A G A A A G G C A A G A$ AGGGGCAAATAAAAACGAGAACCGACAAGGGAAGGAGAAACA GAAACAGACGAAGGGAGGGAGGGGGCCACCCACGGGG
G G G A G G GAGGCCAAGGGGGAGGGAGGTAGGAGGGCAAGAGG GAAAGAGGGAACCGGGAAAGGGGGGAGGGCCGGGGCCBAAGA A A A G G C A A G G G G G A A G A G G G G A G A A C C G G G A G A G A A A G G A A G A A A A A A GAGAAAAGGGGCCGGAGGAGAGGAGGAAAAGAGGGG G GAAAAAGAAAGAGGGAAGACCCAGAAGGGGGAAACCAGAAA AAGAGGGGGAAACGAACGGGGTAAGAGGGCCGAAAAACACAG A G G G G A G G A A A G G A A G A G G G G G A A G G G G G G A A G G A G G G G G A G GAGAGGAGGAAGAGAAAAAGGGGAAAAGGAAAAGGAAAACCG G GAGACCGGGGAAGGAAAAGGGGGGGGGGAGAAGAAAGAAAC C G G G GAA $\operatorname{G}$ GAACCGGGGGGCCCAACGGAAGAAGCAAGCABAA G G G A A G G G A A G A G A G G G G A G G A A G G A C G G G G A A G A G G C C G G A AGGAGGAGGAAGAAAGGGACCAGACGGAAAAAAGAGGGGAAC CAGAAGGGGTTAGCCGGAAAAAGGAAAGGAACCAAAAAAAGA GAGAGAAAAGGGGAAGGCCGGAACCAGGAAAGAGGACAGCCG A GAGGCAAAGGAGGAGGGGAAGAGGGAAGGAAGCCAAGAAAA GGAAGAAGGAAAAAGAGAGCAAAAGCCGAAAAAGAGAGAAAA AGGCCAAAGGGAAAAAAAAGGAAAAAGGACAAGAGGGGACAG

A G GCCGGGGGAAGCCGGGGAAAAGAGAAGACAAAGCCCAGGA A A A A A G G G G A A A A A A A A G G A A G G T T G GAGCCCCGGGGGAAA ACAGAGAGGAGGAGGGAGGAAGGGGAAAAAAAGCCGGAAAGG GAAGGGGCAAGAAAACCGGCCAAGGAAAGAGGAGGAAAGGGA ACCCCCCCCGGAACCAAAAGGAAAAGAGGGGGGTTGGACGAC CAACCAAAAGGGGGGAAAGAGGGAAGAGGAAGAGGAAAGAAA A G GA GAGAAAAAAAGGGAGGGGAGAAAAAGGAGAGGGGGTTA A AC G GAAAAGGACGAAGAAAGAGGGAAGGAAAGCCAGACAAG GCCAAAGGGAGAGAGAGAAAAAAAGAAAACCTAAGAAGAGGG GGAGGAAAAGGAAACGGAAGGACGGACGAAGAAGGAGAGAAC A G GAAAAGGGGAGAAGACAGAGGCCAGGGGAAGAGGACCGGA GCCGAAAACAGTTGGAAGGGGGACCAAGGGGCCCCAACCAGG GAAGGGGGAGAGGAAAGGGAAGCAAGAGAAATTCCGGGGGGA ACCGGGGAAAGAAGGCACAGAGGACAGGGCAAAGAGGGAAAC ACCAAAAGACCAAAGAGAAAGCCAAAAAAAAACGGAAGGGGA AAAGGGGGGGGAAGAGGGGAAAAAAAACAGGGGAGGGCAGAG A GAGAGAAGGAGAGGAGAACCAAGGCAAAGAACAAAGAGCAC GAGAAAAGGGAAGAGGAAAAGGGAAGGAGGGGGGGGGAAGGA A G G A A A A A ACCAAAAGGGGATAGCCAAGGAAAACCCCAGGAA A G GCCAGAAAAAAGGCCCCGGAGAACCAGCCACAGAGAAGGG AAAGAGGGGGGGAGGGGGGGGAGATAAAAAGCAAACAAGGGG A G GAGCAAGAAAGGGAAGGGAAAGGGGGGAAGGGAGGGAGGA A G G G G GACAA G G G G G G G A A A A A A A A A GAGGGGGCCAAGGGGG GCC G GCC G GAAAACACCCCGGGGGGAAGGAGGGGGAACAAGG GGGAGAGCGAGAAGAGACCAAAGAGAGAAAGGGGGAGAAGGA AAAAGCCGGAAGGGGAAAAGAAGAGGGAAACGGAAAGAGGAG GAAAGCCCGGAAATtGAGGAAGGGAGGAAGGAAGAGGAAGGG
 A G G G G G G A A A A A A G GAA $\operatorname{G}$ G G GAACCAAGGGGAAGGGGAACC G GAACCCCGGGGAAGGAAAAAACCAAAAAAAAGGAAAAAAAAG GAAGGAAGGGGAAGGCCAACCGGCCAAGGAGAGGGACAGGGG AAAAAAAAAAGAGGGAGGGGGAAAGGGAAGGGGGGAAGGGGG GAGGGGGGAGAACAAAGGGGGAAAACCGGCCAAGAACGGGGG GAGGAACGACAGGGGCCGGAAACGAGAAGCCGGGGAGGGGGG G G A A G A ACC G G G GCC G G G G TAAAGGAAGGGGAAGGGAGGACA A GAGGCCGGAGAAACAAAAGGAAAAGGAAGGCCAAGGAAGGG A GAAACAAAGAGGAAAGGAGGAAAAAAAAGGACGGAGAGGAA GGGACGAACAAGGAACAGAAAAAGAGAGAGGGACCGGGGAAA A G G G G A G G GA GAGGC G G G G GAGGGGAACCCAGGGGCCGAGAA GAATTGGGGGGGGGGAAGAAAGGAAGGAGAAGGAAAAAAAAG A A G G G G G A A GAGGGGAACCGGGGCCAAGGGAAGAAAATACAC C GAGGAGGGAGAAGGGAGGGGCAAGACGAAGAGGAAGGAAAA AAAAAGACCGAAAAAAAAGAACAGGGGGGGGCAAGAGGAACA A G GAGGGCCGGGGAAGGGGCCAGAGGGGGACGAGACCGGGAG G G GAAAAGGCCGGGGAAGGGGAAGGCCAACCAAAAAACGGGG GAGCCAAAAAAAAAGAAGAGGGAGGAGAGACTTAAAAGAGAA A A G G G G GAA $\mathrm{A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{G}$ GAAGGGGAACCAAGGAAGGCGGGA AA G GAAAACAAGGGGGGAGAGGGAAAAAAAAAAGAGGAGAAA GAGGAAAAAAGACCCAAAGAAACAAGAGAAGAGGGAAAAGGC CAAGGGGCAGAGAAGGGGGGGAGACGAACGGAAAGACAGGAG AAGAAAAACAAAGAGCAACAGAGGAGGGGAAAGACGAGGAAG GAGACAGAAGGGACCAGGGGGCCGAGGGGCAAGAGGAGGAAC A G G GAA A A G G A G G GAAGGAGACCGAGGGGAGAAGGGAGAGAA A GAAGGGGAACAAGGAGGGAAAGGGAAGAAAGGAAAGGAGAA A GAGAAAGAAGACGAAAGGGGGGGGAACAAGGGGGAGGGAGG GAACC G GAAGAAGAGAGGGACGGGGAAGAAGAGAGGAGGAAA AAAGGCAAAGAGGAAAAGGAGGGCCGGAAGAAGGGAAAAAAG GGGGGAGAAGGAGGAGAAAGGAAGGGAGGAGAAGAAGAAGGG GGAGAAGGAGGGGAGCCGAGGGAAAGAGGAGAAGGAAGGAGA

AGGAGGAAAAAGGAAAACCAGAAAGACAAAGAGGAGAAGAAG A GACCGGAGCAGGCAAGAAAACAAAGGGAGAGGAGGAAAGAA GAGCCGGGGAAAAAAGGAGAGGAAGAAAAAGGGGGGAAAAAG GAAAAGAAGAAGAGAAGCACCGGGGACGGAAAGAAGAGAGGG G G G GAA A A A A G GAAAGGAGCAGGAGGAAGAAAAAAAAGAAAA G G A C A G G G A G G G G G A G G G A CA G G CAGAAAAGACAACAA GACA A GAGGAGCCAAGAGGAAAAGACCGGGAAGAAAGAGGGGACAC CAAGGAACAGGAAGGAAGGAAGGAAAGAAGAAAGGAAAAAGAG G G G G G A A A G A G A G G A A G G A A C G G C C C A GAGAGAGGAAA G CA G GAAGGGGAAACAAAGGAAAGGAAGGCCAAAAAAAAGAGAAAC CAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} C \subset \mathrm{C} G A A C \subset A G G G A C G A A C G A G G G G A A A A G G G G G$ GAAGGAAAAGGAAGGCAGAAAGGAAGGGGGGGGAA$G G G G G G A$ A A A A A A A G GAATTAAGGGAGGGAGAAGGGGAGAGAGGACGAA GAAGAGGGAGGGACCGGAGCCAAGAAAGGAAAGGGAGGAAAA A G G G G GAAGCCGACCGGAAACGGCCGGGGAAGGAAAAAAAAG G G G G G A G T TAAAAACGGGGAACAAAAAACGGGGCCGGAGGGC
 A G GA GAACCAAAAAAAAAGGAACAAAACAACAAGAGGCAGAG A A GAAGGGGACAGAAGGAAAAGGGGGAAGAGGGAAAAAAGGA G G A G G A G G G G G G A G G A A A A G G G G A G G G A A C CAAAACACAAA $A$ GAAAAGGAAAAGGAAAAGGAAAAGGAAAAGGAA GGGGGGGGA A A A A A A A G G G GCC $C$ G $\operatorname{A} A A G G G G A A A A G G G G G G G G C C A A G A A A A$ A G G G GCC G G A A G G G G C C A A G G C C C C G G G G G G G G G G G G G G A A A A G G G G A A A A C C A A A A $\mathcal{A} G G G G G G G A A G G G G G G A A C C A A A A A A A$
 $C \subset C G G A A G G G G G G G G C C G G A A A A A A G G G G A A A A A A G G A A A A A$ A G GAA A GCCGGGGGGGGAAAAAAAACCGGGGAGGGAAGGGGG GAAGAGGGGCACCGGAAGGGGGGGGACAGGACAGGCCAAGGG GAAGAGGAACCAAAGAGCCAGGGAAGGACGGGAGGGGGGGGC C GAGGAAAGAAGGGGAAGGAAAAAAGGGAGGAAAAAAGAGGA A A A G G A A $\mathcal{A} G G G A G A A G G G G G G A G A A A G G G G G G G G G A A A C A A G$ GAAAATAGGAGAAGGGGCAAGGAAAAAAAGGGGAGGGGAAGA GAGGAAGGGAGAAAGGGAGGAGGGGAAGAGGCCCCGGAAAAC CCCAAAAGGAAAAGGAAAAAGCCGGAGAAGAAGAAGGGAAAA
 C A A G G G A G A G G G G A G A A G A G A G G A A G G G G G G G G G G A A A A G A C C GAAAAAACGAAGGGAGAGGAGGAACCGGAGGGAGCAAAAGG A G G G G GA G GAAAA A A GAGGAAAAAAGAGGGGCCGGGGCAAGA $A G G G G A G A G G A G G C C A G G G A G A G A G A A G G G A G A A A G A A A G G G$ A GAGGGAAAAACACAGACCCCAAGAGAAGAACAGBAAGAAAA ACAAAGGAAAGGAAGAACCGGGAAAAAGAAAGGACAGAGGGT TGGCAAAGGGGAAAAGGGAAGGGGAGGGGGGAACCAG
C C G GAGGAAGAACACAGGGGGGAAAAAAAAGGAACCAAGGA GAACCCCGAGGAAAAGGAACAGGGGAAGGAAAGGBAGGGGGG
 TAAAGAGAAGACAAAGCGAGGGACAAAGGGACCGGAAAAAAG GAAAAAAGGGGGGAAAAAAAAAAAAAGCAAAGGACBAGAACC A A A GAA A G A A G G G G G G A A A A A GAGGGGAGGACCAAAAGGCCA AAAGAAGGAAAGAGGGAGAGGGAAGAAAGAAGGGAGGAAAAG A ATAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCBAGA GAA CA $A \operatorname{G} G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A B A A G G G G G$ GAAGGGGAAAAAAGGAAGGAAGGGGGGGGCCGGAGAGAACAG A A A G G A G G G A A A A A A A G C CA G G A G A A A A G C C G G A G G G A G G A A AAAGGAGGGAGAGGGGGGAACAACCGGAACCGGACGGAGCAT A A GAGCAGGGGGGGAGGGAACAAGAGGCGGGAGAAGGGAGGC C GAAGGAGGGAGGAGGAAAAAAAAAAAGAAAAAACCGGGGGA AAAGGCCCCAGAGAAGGGGCCGGGAGGAAAAAGGGGAAAAAG GAAAAAAAAGGAAAAAAAAGAGGAGAGAGGGACGGGGGGGGA $C \subset C G G A G G G A A A A A G C A G G C G A A A A A A A A G G G G A A A A G G C A A$

A A C G G A A A A G G GAAAAAGGAGGGCCGGACGGGGGGAGGAGAA G G G G GAAGAAAGGGGAAGGCCGGCCAAAAGGAAAAGAAAACA AAGAAGAGAGGGAAGGAGGGGGGAACCGGAACCGGAAAGAGC CAAAAACAGCAACCAGGAAAGGAAAAGGGGGACGAGAAAACA GGAAAAGCCGGCCCCCCAGAAGGGGGGAAGAAAAACAAAAAG A GAAAAAAGGGCCAAGGCCCAGGAAAGGAGGAGGGAAGAAGA ACCGAGAGAAAAGAAAAGGAAGGAAGGGGGGAAGAAAAAGAA $A G G A A G G A A A A G G A G G A A G G G C A G A G G A A A A A G G G A A A G A A G$ $A C A A T A G A G A A A G G G A A G G A G G G C C T A A A G G A G A C C C A G A G G$ AAAAAAGAAACACGGGGAGAAAAGAGGGGAAAGGAAAGGGGG G GGCCCCCAGGAAAGGGCAGAAACCGGAACCAAGGAAGGGGA A G GAA A G G GAAAAAAGGGGAAAAGGAAAAGGAAAAAAAAGAA AACGAGGAAACGGGGGGAAGGGAAGACGGAGAGAGAGAAACB AA $A$ A A $\operatorname{A} A \mathrm{~A} A A A G G G G A G G G G G A A A C G G A A A C G A A G G A A A A A A$ AA $A$ A $\operatorname{G} G A G G A G A T G A A G A G A G G A A A G G C C A G C C A G A G G A A A G$ GAAAAAAGGCCAGGGACAAGGTTGGAAGGGGAAAACAAAGBA A A A A A A A G G G G A A A A A A A A G G G GCCAAAAACCAA G GAAAA G GA A G G A A A A A A G G G G G G G G G G C C A A A A G G A A G G G G G G G G G G G G A A A A A A $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A A G G G G A A A A A A G G A A A A G G A$
 G G GAAAAAAGGAAAAGGGGAACCGGGGAAAAAAGGGGAGAAA GAA $A \operatorname{GA} A A A G G C C A A A A G G G A G G G G A A G G A G A A G G G G A G G G G$ G GAAAGGAAGGGGAATACCGGATGGACCAGGGGAAGGAAAAA $A C C A A A A A A A G A A A A A G G C A A A A G G A A G G G G G G G A A A A A A G A$ $G G G A A A A G A A G A G A G A G G A G G A A G A G G G G A G A G G G G A A A A C A$ GAAAACCGGAGGAAAAGAGCAGGAGGAGAGGAAACGAAAAAA CAGGGGGAAAGGAAACCAAGGGAAAGGAAAAGGATAAGAGCA TAAAGAAAAAAAACCCCGGAAAAAACAAGATAAAACACAGEA AA GAAAAGGCCGGAAAACCCACCGACCAGAGGGAAAAGGGAA A GAAAGGAGGGAAGAAAGGAAGGAAAAGGGACAAAAGAGCAA $G G C A G G A G G G G A G G G A A G G A G C A A A G G C A A G A A A C A C G A G G A$ GACGGAAACAAGGCCGACCGGGGGAGGAAAACCGGGGGGAGC
 GAAAAGCGGAGAGCCATGGAAAACACGCCGAAAGGAAAAAAA GAAAAAAAAAAAAGGAAGGAACCGGAAGGGGATGAAAGGGGG G G G A A C A G G A A A A G G G G G GCCACAAAGCAGAGGAGAAAA G GA GAGGGAAAAAAGGAAGGAGGGTAAAAAAAGACCCCAAAAAAA A GACCAAGGAAGGGAACGAAGAAGGGGACGGCCCAGAGACAG C GACAACAAAGGCGAGCAAGGAGGAAGAAGGAAGAAAAAAAC GAACAGGGGAAAAAAAAAAGGAACCGGAAAGGAGAGACAAGC $A C C C C G G A A A A A A C G G C C A G G A C A A G C C C G G A A G G A A G E C$ A A C G A G G G G G G G G G G G G C C G G G G A A A A G G A A G A G G G G G G A C A $C G A C G T A A A G G A C G G A G A A G G A G G G G G A G G A G G C A A G A A G A A$ $A G G A G G G G A G A A A G G A A G G G A G A G G A A A A G G G G G G G A A A G G G$ $A \subset C G G C \subset A G C C G G A G G G G A G G G G G G G G A A A G A A A G G A G A A A A$ A G G G A C A G GAA $A \operatorname{G} G \mathrm{G}$ GAGAGAGGAAGAAGGTTGGAGCCGGGAA AAAGAGGGGAAGGAAAAAAAAGGAAAGGGGGCCAAGGGAAAA AAAA A GAGGGAAAAAAAAAGGAAGGGGAGGGAGAAGAAGGGA A GAAA A GAGACAAGGCCAGAAGGGGGGAAGGGGACGGGGGGA CAAGGAAGGCAAGAAAACCAAAAGAAAAAAACCGAGAAGGGG GAGAAAGAGGGGGAAGGCCGACCGGAGAAGGGGGACAAAAGA GACCGGGAAGAAGAAAAAACCAGGGAAGGGGCAAGACAAGGA AAACCAGAAAAAAGGAAAACCAAGCAGAAAAGGAAAACCCCA $C G A A G A A A A C C A A G G G G A G G A A G G A A C G G G A G G A C A G A A A A G$ GAAGGACGAAGGGGGAAAAAAGGGGAAGGAAGGGAAGAAAAA $A G G G A G G A G G A G G A A G G A G G G A G A G C A G G G A G A A G G G A A A A G$ GAAACAGGGAAAAGACCAAGGAAGGAAAAGGGGGGCCGGGGA
 GAGAGGGAAGGAGGAGGAAGGAAAAGGGAGGGGAAGGAACAA

C G G G G GAGGGGAGAAAGGGAGGAGGGGGGCACCGGCAACAGA GAACGCCAGACGAGAACGGAGGGCAAAGGCCGAGGAGAGAAA AAAAGGGACAGAGGGAAAACCGGAAGGCCGGAAGAAAGGCAG AAACAGAGGAGGGGAGGAAGGAAGGAGAAGGGGGGGGAAGGG AA AGGGGGGCCAAAACCGGAGAGGGGGGACCGAAAAGGGGGG A G GAA $\operatorname{l}$ A $\operatorname{GA} \mathrm{A}$ GAGACAGAGGAAGGGGGAAGGGGCCGGAGAGA A G GAACC $\mathrm{C} A \mathrm{~A} A \mathrm{GA} \mathrm{G}$ G G GAGAAGGCAGAGGCCGGAAGAAGCCA A G G A C G G A G G G G G A A G G G A G A A G A GAGGGAAAGAAGGGGGGG G G GAGAAAAAACAGGCCAAGGGAAGGGAAGAGAAAAAAAGGG G G G GAAGAGAGAGAAAAGGGGGGAGGGAAAAGGGAAACAAGG GAAGGAAGGGGGGAGAAGGAAGGGAAGGAGGAAAACCGGAAA G G GAACCGGAAGGCCCAGAGGGGCCAGCCAGGGGGAAAAGGC C G G G G A A G GAACCGGGGAAAGAAAAAAGGCCGGGAAAAGAAA AAAAAGGAAAAGGAGAAAACCAAAAAGGGAAAAAAGGCCGAA AAAGAGGGGAAAAGAGGGGAAAAAGGGAGAAAAAAAAAAGGG GGAAAAAAGGGGGACATGGAATTCCAAAAGGGGAAGGCCAAC

 A G G G G G G A A A A G G A A A ACCAAGGAAAAGGGGAAGGGGAAAAA A G G A G G G A A G G ACCCGGAAAGGGCAGAAAGGAAGGCCGGGGC CCCCACCAAGGCAGGGAAACCCCGGAAAAAAAAGAGGGGAAG GAGGGGAGGAACCAGGCCCAAGGGGAAAAAAGGGAGAGGAGG G G GAGAAAAGGGATTAGACGAGAGGCAAGAACAAAGGAGCCG GAAAGCAAAAGAGAAGGCCCCGGACAGGGGGAGAGGAAACCC C G GAT T T G GAAGGGGGGGAGGCCAGGGGGGGCAAAACAGAAA AACGGGAGACCGAAGGGAAGGAAAAAACCGGAACCAAAAAAA A GAGGGGAAAGGGGGAAAGGGAGAAGAAGGGCCCCAAAAGGA A G GAACCGAC GCAGAGGAGAGAAAGGGGGAGAACCGGGAAAA GAAAAAAAACCGAGGGGACCAAAAAGGGGGGCCAAAGAGAAA GAAAGAAGAAGTAGGAGAAGGGGGAAAGGAAAGAAGGAAAGG A G G G G G G G GAAGGCCGGGGAAAAAAAAAAAAAAAACCGGGGA AGGAAGGAACCACGGGGGGGAAAGGAGGGAGGGGGAAAAGGG GAAAAAAGGGGGACCGGAGAACAAAGGGAGGGAGGAACAAAG GAGGGGGGGGGAAAAGAGGGGGACCGAGGAAGAAGCGGAAAA AAAACAACCGAGAGAAGGGGAAGAGAGAAGAAGCCAGGGAAA GGGAGAGAGAGAAGAAAAAAAGAAGGAAAAACCGGAAAAAGG GAACCGGAAGGGGAAAAAGATAACCGGGGAAAAGGCCAGGGA AAAAAAAAAAGAAGGAGAGAAGAAAGGGGGACCGGCCGAGGG A A G G G A A A A A A G G A A A A A A G G G GCCAAAAGGGGGGGGGAAAA GAGAAGGAGGGCCAAAAAAAGAAAAGGAGGGAAAGAAGGAAG G G G G G G G A G G G A A GAA A A A G G G G G GAAAAAAGGAAGACCCCA A A A ACAGAAAGCCCCGGAAGAAACCAAGGGAGAGAAG
GGGGACAAGAGGGGGGGAGGCCAAAAAAAACCGGAACAAGC C G G G GAAAAGACC G G G G GAAAAC G GAAGAGGAAGGGAGAGGC C A A G G G G G G G G GAGGAGGGAGCAGGGAGGAAGGGGAGGAGGA AAAAAGGAAGGAAAAGGTTAAAAAAAACCGGGGGGAAAAGGA AAACCGGGGAAAACCGGAAAAGGAAAAAACCGGAAAAGGTTG G G G G G G GAAACAGCAAAAAAGACGGACCACAAAGGGGGGAAG GGGGGGGCCAAAAAAGGGGAAGGAAGGGGGGAACCAGGACAA GAAGGAGGAAAAAGGGGAAAGATGGGGGGAGAGAAAAAGCAC AAGCAGGAAGGAGAAAAAGAAGGAAAAGGGGAACAAAAAGAA GGGAAAAAACAAGAGGGAGAAAGAAAAAAGGAACCAAGGAGA A A A C A GCGGGAGGAGAAAAGGAAGGGGCCGAGGAAAAGGGGA AGGAAAAAAGAGGAAAAAAGGCCGGGAGAAAGAAGCGACAGA A G GAAA A G G G G G G G GAACACCGAAGAAGGACAACCAAACGGG G G A GA G G G ACC GAAGGGGGGGTTGACGAAGGCAAAAACCAAG GAAGGAAGAGGGGGGAAAAAGAGAAAGGAAGGAGAAACCAAA A G GCA C GAAAGGGAGGGCAGAGGGGGGAAGGCAGACCGGGGG GCCCCAAGGGGGGACAGGGAAGGAAAGAGGAAGGACCGGACA

GACAGAAACAGGGGGCCAAGGGGCAGAAGAAGGAAAGGATTA A A A G G G GCCGAAGGGCCGGAGGGCCGGAAAGAAAAAGGACCG GAAAAA A A $A \operatorname{A} G \mathrm{G} A A A A G G G G G G G G A A G G G G G A G A G G G A A G G G G$ A GGAGAAAAGAGAAGAACCAAGGCCCCCCAAGGGGAAAAGAA A G GAAAAGGGGCCGGAATTAAAAAAAAAAGGAACCAGCA GAA AAAAAAAAAAAGGCAAAGGGAAAAGACAAAGGAAAAGACGCA G GAAACCGGAGACCAGAAGAAGCCCCAGGAAGGCCCCGAAGA
 C GAGGGGCCCCAACCGGGAAAGGAAGAAACCGGAAGGCAAAG GCCGGAAAAAGGGGGAAGGCCGGAAAAACCAGGGGAGGGGGG $A C C C A G G G A C C C C A A C C G G A A G A A A G G G G G G A A G G G G A A A G G$ G GAAACAGAGGAGAGGAAGCCGGAAAAGGGGAAAAGGGAAAG GAAAAGGGAGAAACCGAGAAACCGGAAAAAAGGAAAAGGGGA C G G A G A G G C G G G G A G G A G G G G A A A T G G A A G G G G G G A G CA A A C GAGGAAGGAAGGGGAACAGGGAGGGAGCACAACAAGGAAAAG A A GAA A G G G G GAGAAGGGAAAGAGGGAGACAGGGGAAAAAAA TAAGGACAGAAGGAAGGGAGAAAAGAAGGAGCCAAGAGGGGG A A GAGAAGAGGGGAAGAAAGGAAAAGGAAGGAAAGAAAAAAA AGGAACCGAAGAGAGAAGAACCCAAGGCCGAGGTTGAAAAAA A A A A C G G G A A G A A C A CAAAGGGAAAAAGGGGGGAAAA GAAAA AAACCAAAGACCCGGGAGAAGAGGGACAAGGAGGAGAAAAAG GAGAGGGGGAGCAGCGAAAAAAGCACGGGGAGACAGGAGGGG $A G G G A G G A G A G G G A A A A G G C A G G G A G G A A C A C C G G A C G G G G A$
 CAGCAAAACAGAGAGAAGAGGGGACAGGGGAAGGGAAGAAGB
 A G G G GAAAACCAAAAAAAAAAGGGGGGCCAACCGGGGGGGGG G G G G G G GCAAAAAAGGAGGCCAAGGAAGGAAAGAAGACAAAG A G G G G GAGAACACAAGAAAAGAGAACCGAACGGGGAAGAGAG GAAGGGGGGAACCAAGACCGAACGGGAAAAAAGAGGGAGGGT A A A G G A A A A A G A A A G G G G G A G A GAGCAAGAATTAAAA GACAA AGGGGAAAGAAGAAGAACCAAGAAAGGAAGGGGAGGGCCGGA C GAAACCAAAAAGGAAGGAGAGGGGGGCAAAGAAAAGAAAAA GA $\operatorname{G} A \subset G A G G A G A G A A A G A G G A G G G G A C G G G G A C G G A A A A A G B$ G G G A G A A A C G A A G G G G GCCGGGGGGAAAAAAAG
 AAAGGAAGCCCCCAAGGAGAGAAGGAAGGGAAGCCAAAAGAA $A C C G A G A A G G G G A G A G G A A C C A G A G G A G G C C A G A G C C G G G G A$ A A GCCAAGGAAAGAGAAAAGGAGAGAGACGGGGAAAGAAGAA
 AACGAACGGACAAGGGAAAGGAGGAGAAGAGAGACGGCAAGA
 AAGGAGAGGAACCGGGAAAGAGGAACCAGAGGGCCGGCAAAG A GAGAGGAAAGGGGAAGAGGAGGAAGGAAGGCCAAGGGAAAA GCAGAGGAACCAAAAAAGAGAAGGAGGGGCCGAGCAGAAAAG GAAGGGAACAGAACCCCGGGGAAGGAGAAAGCAAAAGTXGAA GAAGGGGGAAGAACCAAGGAAAAAACCTTCCAGGGCCGGGGA AAAA A A A G G G GAGAAAAAAAAAAGAAAAGAGAA GAAC GAAAA A A GAAA A A A G GAAAAGGCCAAGGGGCCGGAAGGAAAACCGBA A A A A A ACAACCGGACGGCAGGAAAAAAGGAAAAGAAGGAAGG GAGGAAAGAGAAACCAAAAGGGGGGGGCCGGGGGGAAAAAAG G G G G G G GCCAAAAGGGGAAAAGGCCCCGGAAAAGGAAAAAAA A A A A A G G G G A A C C C C G G A A G G G G G G A A G G A A G GCC G G A A A A A AAAAAGGCCGGAAGGGGCCAAGGGGGGGGCCGGTTGGGAAAG G G GAAAACCAAAAAAAAAAGGAAGGAATTAACCAAAAGGGGG GCCAAAAGGAAAACCCCAAGGAAGGAACCGGGGAAGGGGCCG GAAAAGGCCGGAAAAAAGGAAAAGGAACCGGGGAAAAAAAAA A G G A A G G A A A A G G G GCCAAAAGGGGAAGGAAAAGGAAAAAA G $C G A G G A A A A G A G G G G C C A A G A G G C A C C A A A A A A C C A G G A C G G$

A GCAAAAAAGGGGGAGGGGAGACGGGGAAGGAAGGAAAAGAC
 GAAGGGAAGGAAACCGGGAAAAGGGCCAGAAAACCAAAGGAG GGGAAAGGGAACCGAGAAAAACCGGCCAGGGAAGGAAGGGGA A G G G G G G G GAAAGAGAACCAGAAACCCGGGGGAGAAGGAAGC


 GAAGAAACAGAAAGGGGAAAACCGGAGGGCCAAAGAAAAGAA AGGGAAAAGAGTAAGGGCAAGGGGGCAATGGAAAAAGAAGAC AAAAGGGAAAAAAAAAAGGGGAAAGAAGAAGAAGGGGAGGAA A A A G A G A A GACAAAAAGGGAAGAGACCAGGGAAAAACA GA G G $A$ G GACGAGACAGCCGAGGGGCCAGGGAAGGAAGGACAACACAA A GAACACGGAAGAAAGGAGAAAGAACAGGAAAGAGGGGACAA GAGAAGGATAAGGAGGGAAAAGGAAGGGGGGGGAAGAAAAAA GAAAAAAGGAAGGAGGGGGAAGGAGGGAACCGGGGGAGGGGG
 G G G G A G G A G G G G G G G G A C C G G G G G GAAGGGAGACA GA GACCC C G G A A G G G G G G C C G G G G C C G A A A A A A G G G A G G G G G T T G G G G C C G G C C A A A A A A G G A A C C C A G G A G A GAGC CAA G G G G A G G G A A A AAACCAGAGAGAAGAAAAGAAGACCAAAGGGACCCGAGAAAG AAAGAAAAAAAGGAAGGCCGGGGAAACGAAAGGGGCCAGAAAA A G G G A G G G G G G A G G A G A G G A G T A C A C C G G G GAA A A A A C C A G G GAAGGGGGGAGGGGAAGAGAAAAAAGGAAGGACAAACCACAA AAAGAAAAAGGCCGAGAGAAGAGGAGGAACCGAAAAAGAGGG
 G G G GAGAAAAACCAGGAAGAAACGGGGGGAAAAACGGAGGGG GAGAAAGACGAAGAAGGGGAAAAAAAAAAAAGGAAAACCGBA A G G G G GAAACAAAAAAACCAAGGGGCCACAAGGAGCCAAGEG GAAGGGGGGGGACGGCCAAGGAACCAACAGAAGGACCGACAG G GAGGGGGGAAAAGGAAAAACGAAGGGAAGGGAGAAAGACCA G G GAAAAAAAACCAAAGGAAAGGGACCACAGCCGAGGGGAGG GAAAAGACAAAAAAGCAGGGGAAAGAAGGGAAAAAAGGAGGG GAAAGGGCCAACCCCGGCCGGAAGGAAGGAAAAAAAAGGGGA A G G G G A A G G G G G G A A A A C C G G G G A A A A G G G GAAAA A G G C C G G A A G GAACCGGAAAACCGGAAGGAAGGAAGGAAGGCCGGGAAAA A A A G G A A G GAAAAAAAAAAAAAAAAGGGGGGGGGGGGAAGGG GAAGGAAGGAAAAAACCGAAAAAAAGGAAGGAAGGGGGGGGG


 GAAAAGGGGTTAAAAGGAAAAGGAAAAGGGGGGAAAAAAAAA AGGGGAAGGCCAACCGGGGAAAAAAGGCCGGCCAAAAGAAAC $C G G A A T T G G G G G G A A G G C C G G A A G G G G G G G G A A A A A A G G C C A$
 GAAAAAAGGAAGGGGAAAAAACCAAAAGGAGGAAGCCGGGGG
 A G G G A A G A A A A A A A A G GAGGACCGGGGCAAGGAGGCCCCGGG GCGGAAAAAAAGGGGGGGGTAGAGGCCGAAAAAAAGGGAAAG GAACAAGGAGGAAGGAGAGCCAGAGGGAAGGCCBACCCAGGG GAATTGGGGAAGGGGCCAAAAGAGAAGAGGAAGAGAAGGGGG GGGAAAAAGAAGGAAGGAAGGAAGGAAAACAGAGGGAAAAGA TA $A \operatorname{G} G A \operatorname{A} A A G G G G A A A A A A G G G G A A A A A A C C G G G G A A G A A A A$ A G G G G G GAAGGGGCCGGGGGAGGAAAAGGAACCAACAAAGGG G G G A A G G G G G G A G A A A A G G G G A A G G G G G G G G A A A A A A G G G G C
 G G GAGAGCGGAAAAAAACCAACCAGGGAAAAAAAGAGAGACA A GAAAAAGGGGAAGAAGAAGAAGGAAAAAAGAAAGAAGAGAA AAAGGGGAGGAAGGGGAGAGAAAAAAGAAGGGGGGGAAAGAA

A A GAGCAGGGGGGAGGAAACAAGAAGGAAAAAAGGAAAAGGA TAAAGACGAAGATAAAAACCGTAGAGGAAGGGAAAAAAGGGA G G G GAGGAGAGGGAAAAAAGGCCCAAAGAAGGAAAAGAAAAA GTTAAAAACGGGGCAATAGAAAGCCAGGGGACGGGGCAGCAA A G GAGAAAAGGAAGGAACCAGAAAAGGGAGAGAGAGGGAAAC CAACCAAAAAAGAGGGAAAGGAAAAAAGAACGGTTGGGGGAA A A A A A GAGAGGGGAAGAAAAGAAAAGAAGAAGGAAAA GAGAC CAACCGGCCAAGGGGGGGACAGAAAGGCCAGCCAGAAAAAAG GAAG GAGGAAGAGGAGGTTCCAAGGTAAAGAAAGGAAAAAAA A G GAAAAAAAAAAGGAGACACAAAGAGAAGGAAAACAAGAGAA GAAACGGGGAGGGAGGGAGGGCACAAGAGGGGGGGCAAAAGA
 C CAAAGAGGGGGGCCCCGGAGGGCACACAGAAGGGAAGAAAG GAACCCAAGAGGGAAGGTTCCGAGAAGACACCAAGCAAGACG GAGGGACCCAACCGGAAAAAAAGGGAACCCCAAGGAAAAGGA AAAAAAGAAAGGACCGGAAGGAAGGAAGAAAGAGGGGGAAAA A G GAA A GAGCACAAAGAGGGAACAAAGGGGGGGGGGGAAAAC
 AAGGAAGGACAGAGAGAAGAGAAAGAGAGGAAAAAGACACAA $A C C A A G A A G G G G G C C G G G G G G A A C C G G G A A G G G G G G G G G G G C$ AGGGGAAAGACAGAACAAGAAAAGGCCGGCCGAAAAGAAAAC C G G TAA A A A G G G G GAGAGGGAAAACAGCAGAACGGGGGAAGA G G A A C A A G G A A G G G G A A G G A G G G G A G G C C G G G G A A G G A C G A G GAAGGGGAGAGCCAAAGAAGGCCGGACAGCCGGAGAAGGGGA
 $C \subset C G G A A A G C A G G A A G G G G G G C C A G A G A G A A C C G G G G G G G G G$ G G GAA $A \operatorname{A} A A G G G G A G C A A C A G A G A A A A G G A A G A G A G G G A A A G$ A A A G A A G G A G G G A A A G G G G G G G G C C T T A G A G G A G A G G A G A G A G G GACGAAAAGAACAGAGGAGCACACCCCCCGGGAGAACAAA GAAAAAAGGGGAAAAAAGGGGAGGGGGGGCCAGGGGAAAAAC C C C G G A A G A G A C C G A GAGGAAAAAAAAGGAAACAAAAAAGGG $G T T G G G G A A G A G G G G A A A G A G A G A A G G A A C C G G C C A A A A G G G$ GAAAAGGGGAAAAAAGGGGAACCGGGGGAGGAAAGGGGGGAG
 GGGCCCAGAGAGAGAAAAAAGGACCGGGGAACCCCAG
GATTGGAAAAAAAGAAAAAAAAGAAAAAGGCGGAAGAAAAG GCCAAGGGGCGCCGGGGGGAAAAGGGGAAGGAAAACCCAAGC A A GACAGGGAAGGAAGGAAGGGGACAAAAGGGGAGAAGAAGA G G G A G G A A A G GCC G G A A A A A A A A G GCCAAAAAGCA GAAC G GA
 AAGAGGGAAGAGGAAAAGAAGGAAGGGAAGGAAAAGGACGAA GACGGGAGGAAAGAGGAAGGGGACAAGAGAGCGGGGGGAAGA G G GCCAAAAGGAACCTTAAGATTAGGAATAAAAGGGAAAAAA GAAGGCGAGAAAGGGGAGGAGAAAGAACAGGGGAGCCABAAG GAAAAGGGGGGCCGCCCAGGAGGAAAAGGAAGGAGGACAGAG GAAGGGGAACCAAGGAAAGCCGGGGAAGAGGAACCAAGGCCG GAAGGAAAAGAAGAGGGGGAAGGCAAAAAAAAGAAAAGGCCA GAGCCGAAGGGAGGAGAGAGGAGAGAAAAGAGGAGGGGA $\operatorname{A} A A A$ GAAAAGAGGGGGAGGCCAGCCAGAGACAGGGCCGGGGAAGAA A G GAA A G A A G G G G A GCCGAGGGGAGGGAAAGAAA G GAAAAAGG A GAGGCCATCCCCGAGAGGAAGGGGAAACAAAGGGATAAGGG GAAAGAGGAGAAAGGGAGAAAGGAAGGAAAAGGGGAAAAA GA A GAGAGAGGCCGGGAAGGGCCGGGACCAAGGAAAAAAAACCA AAACCCCAAAAAAGGCCGAAGGGGAGGAGGGGGAGGGGGAAA
 A A A G G A A A A G A G G G G A A A A GAA $A \operatorname{GGGCCA} G A A A A G G A G G A G G G$ GAAGGAAGGAAGAAAAAGGCGCCAAAGAAGAGGGAAAGAGGA
 GAGAAAAAAAAAAAAGGAAGGAAAAGGGGGGAAGGGGGAGAG

GAGAGAAAGCGAAGACCAAGGGAACAAAAAAAACCCCAAAAA G GAA A G G G GAA $A \operatorname{AGGGA} G G G A A A G C A A A G A A A G G A G G A A G G A G$ GAAGGAACCGGAGAAAGGGGGGGAAGGGGAAGGCCAGAAGAG A G G GACAGGGAAAAATTAGAGAAGAAGAGAAGGAGGAAAAGA CAA GAACAAAAGGAAAAAACCAAGGGAGGAGGGAGAGAGAGA GACAAGGAACCAAAAAGGGAGGGAAGAGAAGAAAGAAAGAAA AA GAAGGCCAAGGCCCCGGAGAGGGAAAAAGGAAAGAGACAC CAAAAAAGGGGAAAAGAAGGGAGGGGGAAAGGAAAAAAAGGC C C A A G G G G A G A G G A A A A G G G G A G G G G G C C G G A A A A A G A G G G A GAAGGGGAACCTTGGCCCCGGAACCAAAAAAAAAGGAAATTG G G G A A G G G A A G A G G A A A A G G G G G A G A A A A G G G G C C G G G G G G G GAAAACCGGAGGGAGGGAAGGAAAAAAAAGGGAAAGAAAAGBG
 A A A G A A G A A A A A A A A GAGGGGACGCCCGGAAGGAAAAGAGAA GCCGGGGGAATAGGGAACCGGAAGGCCACGGGAGGACAAAAG AGGGAAACCAAAAAAGGCCGGAAAAAAGGTTAAAAAAGGCCA ACCGGAACCAAACAAAAGGCCAAGGGGCCAAGGAGGGAAGAA A A A A G A A A A A A G GCCAAGAGAAGAACCCCCCAGACCCACGAA A G G A A A A A A G G T T G G G G G GCC G G C CAAA A GAGA A A CA G G G G A A A A G A A A G A A G G A A G G G T T G G A A G A A A C C A A G G A G A A A A G G A A GAAGGAGGGAGAAAAGGAGGAGAACCGGAGGAAAGGGGAGA $A C C A A A A G G G G G G A G A A G A A C C C A G A A A G C G A A G A A A G A G G G$ GAAAGAAAAAAAAAAGGGAAAAAAAGGGAGAAAAAAAAAAAG A A A G G A A G A A A $\mathcal{A} G G G G G G G G G G A A G A A G G A A G G G G A G A B A A A$ GACGGAAGGGAAACCGGAGAAAGGAAAAAAAGGAGCCBAGGG GAGAAATGGACGGAGAAGGGAGGGGGAAACGAGAAAAGAAAA AAAGGCCCCGGAAGGGGCCGGAAGGACGGGAGAGGGGCAAAA AAAGGACAAGGAAAGAGCAGAGGAAAAGAAAGGCAGGGAGAAA G G A A C G G G G G G G G A A A A A G G G A A A A A GC C GAA G C CAA GA GA G A G GAACCTAGGAGCCAGGGGGGGGAAGAGAGAAGGAAAAGAG GACGGAAGGAAGGGAGAGGTAAGGGAAAAGGGGAAAAGGGGA GAAAAGAGAAGAAAGAGGGGGAAAAAAGGAAAGGAGAAAGAA G G GAGGGAGGAGGGAGGACAGGGCAAGAAGAGAGGGGCAGAC A G GCCGGAAGGGAGAGGAAAAAAAATTAAAACCAAAAAAAAA A A ACCAAAGAACCAAAGCAAAAGGGGGCCAAGGCCTTCAAGG A A G G G A A A A G A C G C C G G G G CA GAG GAAAGGAAAAAAAA AA GA T G G G G A A A GAGCAGGAACCGGAAGACCAAGAAGAAAGGAGGG $G G G C C T T G G G A A G G A A C G G G G A A G G G G G G A A A A G G G G G A A A A$ A A A A G G G G G A G A A A A A A GAGGAACAAC GAAGGAGGGGAAA GA
 AAACCAAAAAAGAACGGAAAGAAAAAAGAAACCGGAAAAAGC $A C C G G A A G A A G A C G G A G G A G G A G A A A A A A A A G G A A C A A A G B A$ A AACGAGTAGGAGGAAGGAAGAAAAGGCCAAAAAGAGAAAAA C G G G G G A G A A A C A C C TACC G G G GAAGGTTAACCCCAAA GAAA CAAGAGGAGGGGGGAGAAATACAGAAGAAGGGGAGAAAAGGA A G GAA A A GACCAGCACAGGGAAGAAAGAAGGAGGBAAAAGAG G G G G G G G A A G G A A A G GAA G CAAAAAAAAAGGGAGAA GA G GAAAA G GAAAGGGGGGGGGGAAAGGAAGGGGGGGAAGGGGCAGAAGA GAAAAAAGAAGAAGGAAGGGGAAAAAAAGGAGGGGGGGGGGA
 AAAGGAACCAACCGGTTAAAAAAAAAACCGGAAAAGGGAAAG GAAAAGAAGGGAACGGGAAAAAGAGACAGTACCGGGACAGGA A G G A A A A A A GAGGAACCAAAAAACCAAGAAAACAAAGGAAGG GAGAACCAGAAAACAAGGGCAAAAAAAAAGGGGGGGGAGCCG G G G G GCGGAGAAGGACCAAGGGGAGGGGGAAAAGAGGAAAAG G G A A A G G G G G A A G A A G GAAGGAACCGAAGAGCAAAG GTXAC G $G C C G A C C G A A A A G A A A A G G G A A A G G G G A A A A C A A A C C G G G G A$ GA $\operatorname{G} A A A \operatorname{A} A G G G G G A A A A G G A A A A G A G G C A A G G G A A A A A A T T G$ $A C C A A C C G A G G A A A A A A G G A A G G G A A A A G A A A A G G A A A A G G A$

AAGACGAAGAAGGGGAGGCAAGGAAGACCAGGGGGCAACGGG GA $A$ A A C C G G G A G G G A A A A $\mathcal{A} G G G G G A A A G G G G G G G G G A G G G G G$ G G G G G G G G GAA $A \operatorname{G} \operatorname{GA} A A A G G A A G G G G A A A A C C A A G G G G C C G G T$ TAGGGGGACGGGGGACCGAACAAAAAGAAAACCCCAAAGAAT TGAGAAAAGAAAAAAAAAAGGAGGGCACAAAAA GAA GAGGGG GA G A A A A G GAA $A \operatorname{G}$ GAAAAAACCGAAAGGAAAGAAGGACGAAAA A G G A A GAAACAGGAAAACCAAGGGGGGAAGGAAGGGGGGGGA AGGGGCCAAGGTTGGAAAAAAAACCAAAAAAGGAAGAAAAAC C A A A A A A G G G G G G A G A A A A A G G A A A C C A A C C G G T T A A A A A G C A G GAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAAAAAGGGA A G G G A G G GACCGGGGGAGGGAGACCACACGACATTGGAAAGA A GAGGAAAAAGCAAGAAAACCGGGGGGAGAGAGCAAGAGAAA GAGCACAGGAAGGAAAGAAAACCCCGGGGGGGGAAGAAACAA A GAGGAGACAAGAGGCACCAACACCGGGGCCAGCCCAAACAG GAGCCAGAGGGAAAGACGAAGCCAGGGAGAGGGGGGAGAGAG GCGGAAGGGAAGGGGCCGGAAAACCAGTAGAACGGCCGAGAG G G G A A G G A A G G G G G G G G G G A A A A A G CA A A A A GAAAAAAA A G A GCAAAGAAGACAGAGGAGGGAAGGGGGAAGGCCGGGGGAAAA AAAGGCCAACAAAGGCCAAGGCCAAGGCCAAAGAGGAAAAAG GAGAGAGAAGCAGAGAGAAAGAAAAGACCAAAAGGGGCCGGA GAAGGAAAAATGAAAAACCGGAAGATAGAAAAGAAAAGAGAA A A A G A A A A A A A A A A A A A A A A A G GAAAAGGAACCCCAA GAAAC A A G A C A A G G G A A A A CAGAAAGCCGGAAAAAAGGCCAAGAAGC C G G C A G A A A G G A C A GCCAAAAGGCCGGAAGGGGGA GAGGGGA A G G G G A A G GCAAAGGAGGAGAAAAAAAGAACGAAGCAA GAC G GAGCCAGAGGGAGAGAAGGACAGGGAAAGGAGCGAACAAACG AAAAAGAAAAGAGAGGCAGAAGACAAGGAAGGGGAATAAAAA $A C C C C G G C C A G G A G G G A A C A A G A G G A A A A A G G A A A A A A A A A G$ G G G G G A T G A A A A A G G G A A A G G G G A A A A G G G GAA G G C C A A G G G A G G G G G G G G GACCGGAACCAGACGGAAGGAAGGCCGAAAGGA A C C G G A A A A G G A G A G G G G G A A A A A GCC G G A GAAG GAAAAAAA AAAAAGGGATTCAAAAAAAGAAGGGAGAAAAACATAAAACAG GAAAAAAGAAAGAAGAGACCCGGTTAGAAAAAAAAGGGGGCA GAGGAGAGGAGCGCCAGAAAGGGGGGGGGAAGGAACCAAGAT TAA A A A $A$ A A $A \operatorname{A} A G G A A G G G A A A G G G G A A G G A A T T G G A A$
GAAAGGAAGACCGGAGGAGAGGAGGGGGAACCGGGGGAGCG AAGACGAGGCCGACCGAAGGGCAGGGGAACACAGAGGGGGAG G G G G GAGGGAAAAAGGGAAAAGGAAGGAAAAAAGGAAGAAAA G G GCCCAAGGGAAAAGGCCGAGGCCAAAAGGCCGGAAAATXG GAGCGAAGGCAAAAAAAAACCCCAAGGGGAACGGGAACAAAT TAAAAACAGAAAGAAGAGGAACAGAGAGAAGGGGGGGAACAB G G G G A A A G GAA $A$ A A G G CAGGAAAAAAGGGGAGGAGAAAAAA G G AAGCCAAGGAGAAAACCCCGGGGCCGGGAAGAGGAGGGGAGA AAAAAGGAAAAGGAAGGCAAGAAAGCCGGGGAGTTAAGAAAG G G G G G C G A A G G G A A G A A A A G GA A A A G G G G G G G G A A GA GAAA A
 G GAGGAACAGGGGCAGAAGGGAAAAAACCAAAAAAGGAGCAG GAAGGAGACAGGGCCGGGGCAGGAAAGGAAGGAAAAGAAAGA G G GAA A GAACAAGGGGGAAGGAAGGGGGAGGGGAGGAGACCC CAAA $A$ A $A \operatorname{AA} A G G G C C A A A G A A G A G G A G G G A A A G T T C C B G C C G$ G G G G G A A G G A A G G A A G G G G G G G G A GAA A A A GA GAAAA G GAAA
 A A A G G A A A G A A G G G G A A A A A G A A G G G G G G C G A G A C T T G A G G G G G G G GAGAAGGGAGACCGGAGGGCCGGAACCAAAAGGAAAAG AAAAAGGCCGAGAACGAGAAAAAGGAAATCCCAGGAAGAAAC C G G G G A A G A C C G G G A G G G G C C G A G G G A G G G G A A G A A A G GAA A C T T A A A A $\mathcal{A} G A G G G G G G G G G G G G G G G A A G G G A A C A A G A B A A A A$ A A A A A C C G GCCGGAGGAGAAGAGCAAAAAAACAGGAAAAG GA $A A C C C G G G G A A A G A G G A C C G G A G G G A A G G G G G G A A A A A G G G A$

AAAAAGGGGGGGGAGAACCAAAGAAACGGGGGGAAGGCCGBA G GAGGAGCCGGCCGGAAGGAAGAAGACGGGGGGAGAACAAAA $G C \subset A A G G G C G A A A C G G A G A G G A C A A A A A G A A A A C C G G G G G G A$ $A C A G A A G A G G G A A G G G A A A G G A A A G G G A A A A G G G G G G G G A G A$ G GAGGAAGGCCAACCAGGGAGGGGGAAACGAAGAGAAGAGGC $C G G A G C A A G G G A A C C G G A A A A A A G G G G A G A A G A A C C C C C G G G$ ACAAAAAAGAGGAGAGGGGAAGGAAGGGGGGAAGGGACAAAA AACAGGGAGGAGAAGAGAAAAAGAAGAGGGGAAAAAAGGGGG G G GCCAAGGAAGGGGGGGAGAGGAGAGAAAGAAGAGAGAAAA AAAGGGGAAAAAAAAGACCCCAAGGGGAAGGAGAGCCAAAGC C GAGGGGGAAGGGCCGAAAAGGGGGAAGGAGAGAAGAGGGAG $A C C G G G A A A G A G G G G A C A G G A G A A G G G A C G G A A A A A A A G A A A$
 $G G G G A G A A G C C G G A A G G G A A G G G A G G G A G A A A A G A A G A A A A G$
 A A A A GAAAGAAGGGGGGCCACAGGGGAGGAAGGCCAAAAACAA A A GAGGACCAACCGGGGGGGGGGCCAAGGGGCCAAAAGAAAG ACCGGGGGGAAGAAAAAGGTTGGAAGAAGGAAAGBAAAAGAA A GAAGGGCCCCAGGAGAGGAAGGAGGGCAGGAAACBAAAGAA GAAG $A \operatorname{G} G \mathrm{G} G \mathrm{G} G A \operatorname{A} A \mathrm{G} G \mathrm{G} A \mathrm{G} G A \operatorname{A} A A G G A G A G A A G A A G A G A G C A G$ G G G A A GAAA $A \operatorname{AG} \operatorname{A} A A A G G G G A G G G G A A G G A C A A G C C G G A G G G G$ G G GAGGGAGAGGGACAGGGAGGGAGAAGGCCGGTTGGAACAA A A A A A A A G GAAAAGGAAGGAAAGAAGAGGGAGAAACCAAAAG GAAGGGGGGAACCGAAGGAGGGGGAAGGGGGAGAGCCAGCCG C GAGAAAAAAGAAAGCAGGAGGGGAGAAAGAGGGGAGGACCB GAAAAAGGGGAGAAGACAAGAAGGAGAGAAACAAAAAAACAG GAA A G GAA A A G G G G G G G G G G G G G G G A G G G A A A G C G A G G G C C A A A A A CAAA A A A A GCAGAGGAAAAGGGACCGAAGACAA GAAA G $A C C G A A G A A A A A A A A G G A A A A G G G G A A A A G A G G G A A A G A A G G$ GAAAACCAGAAAAGGCCGGCCGGGAAGAAGGAGGAAAAAGAA
 $C G A G A A A G A G G G A A A A A A G A G G G C C C C G G G A A A G G G G G G A A C$ C G GA GACAGGAAAAAAGAAGGGAAGAACAGGAA G GAAAGAAAA A G G G GCAAAAAGGGGGGAAGAGAAAGGCCGGAAAAGGGGGGA C G GAGGGACGGAAAGAACCAAAAGGGACCAAGAAAAGAAAAC A G G G G A A CAGACCCCAGGAAGGGGGGAGAAACCAAAAAGCAA A G G G G G GACAA $A \operatorname{A} G A A A A G A A G G A G G A A A G G G G A G G A A A A A A G$ GAAAAAGAGAAGGAAAAGGAAAAAGAGAGAGGGGGGAGGGGG G GATTAGAGAGGGAAACGAAGGGAACCAAAAAACCGGGAAAA A A A A A A A A A A G A A A A A A G GAAAAAAGGGGAAGGCAA GAA GAA AAGGGAAAAGGAAGGAAAAAAAAAGGGAAGGAGGAGGGAAAAG GAAGGTTGGAAAAAAAGAACAAGGGGGAATTAACCAACCGCC CAAAAGGAGGGGGGGGGGGCCAAGGGGGGAGGAGGGGACAAA A A A G G GAA A A G GAGGAAGAGGAGAAGGGGGGAAGGAACACAG G GAAAGAAAGCAGGAACAGAAAACCGAAAAGACCCGCBACAA G G GAA A G G GCCAAGGGGACAAACGGGGCAAAAAAAGGAAGAA AAGCCGGAAAGGGGAGCAGGGGAGAGGAAAAGAAGAAGAGGG A A G G G A G G G A G A G G G G G G G G G G A G A G G A C A A G G A G A G G G A G A A A GCGGAGGGGAGACGGGGAAGGGGGGAAAAGGAACCAAAGG G G G G G A A A A A GAGACGGGAGAGAAAGACAAAAGCAAAAGGAA A GAGAAAAGGGAGGGGGAGGAGGGGAGGAGAAAGGCAAAAGG A A G G A G G G GAA A A $A \operatorname{AGGAGGGGAGAAAGGGAAGAAAGGAAAAG}$ G G G A G G A G G G C G G A G G G A A A A A A A A A G G A A A A A G G A A A A G G G GAGGAGAGGGGGGAAAGAGGAGATTGAAGACAAAAAGGGGGG GAACCAAGAAGCAGCAGGGCCGGCCAAGGGGAGGGGGAAGAG A A GAGCCAACAACAGAAGGCGCCGGGAAAAACCCCAAGGGGG GAAAATTGGAAGGAAGGGGAAGGAAAGGAGGGGGGCCAAAAG $G G G C A A G G G A G A G G A G G A G A G A G A G A G G A A A G G A C G A G A G A C$ $A A G C A A G A G G G G A A G G A A G G A G G A G G G A G G G A A A C G A A A A G A$

A GAAGAGGAGGAGGGGGGGGGTTGAGGAAGAACAAGACAGGG GAAAGGGAAAGAAAACCAAAAGGAAAAGGAAAGAAGAAACCT TGATTGGCAAGAAAACAAGGAAAAAAAGGGGGGGGAGAGAAA AAAGGAGAGAGGGGACAGAGAGGAAGGGGCCAGAAACAGGGT TCAGGGGAAAACCAAAACCAGGGGGAAAAAAGGAAAGGAGAC A A G A A A G A A A G A GAAGGCCCCAACCGAAAAGAAGGAAAGGGA A A A A A G G A A G G A A G GAACCGGGGAATTGACCGAACGGGACCA $G G A A A A G G G A G C A G G A G C A A A G G A A C C G G G G G G G G A A A A A G G$ C G G G G G G G G A A A G A A A A G G G G G G G G A A G G A A A A T T A G G G A G A AGGAAAGAGAGAGAAGAGGAAAAAGGAAAGGAGGCCAAACAA
 CACAACCAGGGAAAAAAAAAAGGAAAACCGGGGAGAAAAAGAC C G G A C G G C A A A A C G G G G G G A A A A G GAAAA A A G G A GAAAA A G A G GAG $\operatorname{G} G A \operatorname{A} A \mathrm{~A} G \mathrm{G}$ GAAGAGGGGAACAGGGGAAAAAGGAAGGCCG GAA A GAAGGGAAGGCGGAAAAAAAGATGAAAAGAGCCAGAGG GAAGGGGAAGAGAAAGGCCGGGAAGGAGGAAAGCGAGAAAAC C C C C A GCGGGAAGAGCGAGAAGGGGGGGGCCAAAAGAGAGAA GAGAGAAAGAAAAGAAAGGCAAGGAAGCCAGGGGGAAGAAAG G G GCCGGAAGGGGAAGAGGAACAAGAAAAAGGGGGGAAAAGA GAAA A GA $A$ A A A A GA $A$ A $A G G G G G G G G G G A A G G A A A C A A G G C A G G G$ GCCGGCAAGCCGGGAAGAAAAAACCAAGGGGAAAAGAAAGGG GTTAAGAGAAAAACAAAAAAAACGAAAGGGGGAGGAAGGGGA $A C C G G G G A G A A G G A A A A T T A C A C G A G G A G G G A G A A G G A G G G A$ $A C A G A A A A A A C A A C C G G A G A A C C A A G G G A A G A A G G G G G G G G G$ $A C C A C A A A A A A G G A A A A A T G G G G A G A G A G G A G A G G A A G A A G A$ AAACAGAGACCAAGGAAGGGGGGGAAACCGGGGGGAAAAAAA A GAAACCAAAGCCGAAAAAGGGGCCAGGGACAAGGACAAGAA $A C C A A A G A G A A G G A A G A G A T A G A C A G G A A G A G G G A G G A G A C G$ A GACCGGGGAGAGGAGGGGCCGGAGGGAGAAAAATGAAAAAA G G GAA A G G GAAAAAAAAGGGGGAGCAAAAGGAAAAGGACGAA G G G A A A A G G G G G G G A A A A A A G A GACTTAA GAAAAA G GAAAGGG GAAAAAAAAAAGGAACCCCGAGGAACCAAAGAAGGAGGGGGG GAAAAAAGGGAGAGAGAAGGAGAGACCAGCAAGCGGAGGGGG G G G A A C C A A A A G G G GCCGGGGCCAAGGACAGCCCC GAAA A A A G G A G G G G T A A C G G T T A C G G A C A A G G G G G G A A $\mathcal{A} A A G G G$
AAGAAGAGAAGATACCGGGGGGAGGAGGAGAAAGGGAGAAA G G GAAGGAAAGAACCGGGAGAAGAAGAAGGAAGGGAAAACAG G GAGAGGAAAGGGAACAGAGAGAAGAGGGGACCGAAGAAAGA GAGCCGAAAAAGGCAGGGGGGAGCCCAGGAAGAGGAAACAAA A A A G G G A T T G A A A G GAA $A \operatorname{GGGGAAAAGAGGCCAGAGAGAAAGG}$ A A A G A G GAGAGGGGGAGGGAGAGACGGGGGGGGAAGGGGCCG GAAATAGGAGGAGAAAAAAAGAGAAGGAGAGGGACGAAAACB A G GAGCCAAGGAACAGGGGGAAAAGAAAGACCCAAGGGAAAA A A A C C A A A A G G A A A A G G G G G G G A A G A G G G G A G G G G G G C C G G A A G G C A A G G A A G A A G G G G A A G G G G C A A GAAAACCCC G GAAA GA $A G G G A A G G G A G A G G G G G A A A A G A A G G G G G G G G G A A A G A A G G G$ GGGAAGGAAAAGAAAGGAAGGAAAAAGAAAGAAAAGAACAGA GAAGAAAACAGGAGGAAGGAAAGCAGGAGGGAGGGACGGGGG GCCAGAAGGGACAAAAAAGAGAAGAAGGGAAAAAAAAGAAAA A A A C C C C A A G G G G A T A G A A G G A G C A G G G G A A G G A G G G G G G G C CAGAAGGAAGGAGAGAGCAGGCCAGAAGGACAAGAAGAGGGG AAAAAGGAAGGAAAACCGGAAAAAGGGGGGGAGAAGGGAGAA $A G G C C A C A G G A C A G G A A G G A A A A G G C C A A G G A G C C G G A A G E G$ GAGAGGGAAGAAAAGAGAGGAAGACAGGGGGACGGAGAGAAG $G C C G G G G G G G G A A G G A A T T A A A A G G G G G G C C G G A A G G A A G G G$ G G G G G A A A A C C C C G G G G G G G G G G G G A G A G G G G A A G C C A A G G G $G C C C C G G A A G A C C G G G A A G G G A C G G A G A A G A G G A G G A G A G A A$ C A G G G A A A A A A A A C C A G A A GAGGGGAAACGGAGGGGGGAAG G GAAAAGGAGAAAAAAGGGAGGAGGGGAGGAAAAAAGGAAACG

G GAAGGAAGCCCCAGGGAGCAGGGGGGAGGAAGCAAGAGAGG G G G G G A A A GCC G G G GAGAGAAACGAACGGACAAGGAGAAAC G GAGGGGGAAACGGGGGGACGGGGGGGGGAACAGGGCCGAA$G G$ G G GAGGAAAGGAGCCAAAAGGAAACAAGGGGGGGGGGAGAGA G GAA $\operatorname{GA} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} G A A A A A A A A G A A G A G A A A G A C G G G G G G G$ GAGAAGAACGGGAGACCGAAAGAGAAAAAAAGGGAAAAGAGG GCCAAAAGGAGAACCAAAAGGAGGGGAGAGGGGGGGGGGGGA GAGGGGGAGTTGGAGACGGGGAAAACCAAGGAAAGCAGAAAG G G G A A A G A G G G A A G G C A C A A A A A A G G G A A G G G G T A A A G G G G A G G GAA $A$ G A A G G G GAAGGACGGAAGGGGAAAAAGAACCCCGGA GAGGGAACCGGCAGGGAAGGGGAGGAGAGGAAGAAGGAGGAA A G G G A A A A GAAAAAAGAGGGGAAGGAAAGAAGAAA GAAAGAA TGGAAGAGGAGAAGGGGCCAAGGAAAAGGGGAGAAAAACGAG CAGAGAGGAGAAAGGAAAGCCAAGGACAAAAAAAGAAAACAA A A ACCAGGGAGGGCAAGAGAAAACAAAAAAGGGAAAGACAAA TCCAGAGAAAGGGAAAAGAGAAAGGGGGACGAAAACCGGGGA GAGGGAAACAAGAACAAAAGGAAGGGCGGCAGGAAGAAGTAA CAGAGAAAGCAGGAAAACCAGGGAAAAGGCCCCAAGCAAGBA C GAGAGGACAAAGAGGGGGAGAGAGAAACGCAAAAAAGGGGA GCCAGCACAGAGGAAAAAAGGAGGGCCAAGGGGAAGAGAGGG ATAAAAAAAAAAACGGGGGGGCAAGGAGGCCGGAAAAGGGGG GAAAGAAGACCAAAACCAAGAACAACAGAGGGAGGGGGAAAA G G G G G G GAAACAAGAGGAAAAGAGAGACAAGGGGGGGGAAAA AGGCCAGAAAAAGAAAAAAAAGGCCAGGGAAAAAAAAGACAA A A A G G A A A G G A G G G GAAAC $A \operatorname{A} G A A G G A G G G A G G A G G G G C A A G B$ GACGAAGAAAACCACGAACCGGAAAGGAGGAAACCAAAGAAA A GAGAAAAAGGGAGGGGACCCCAGAAAGGGGGGGGAAAAAAG G G G G A G G G G G G A G G G G G G A T T G G G GAAAAAAAAAAAGGAAAAC C GAAGAAAAGGGGGAAAAAAAAAGGAAAACCGGAGCCACAAA AAAAGGAAGAAAAGGGGAAGGGGGGGGAGAAAAGACAGACCB GAACAAAGGGGGAGGGGGAGGGGAGGGGGCCAGGAAAGAGGG A G GAGGGGGAGAGAAGGGGGGAAAACCGGGGCCGGAACAAAA $A C C A A G G C C C C G G A A A A C C A A G G G G G G A A G G C C A G G G A A G G A$
 G G G A A G G C A A A A G A GAC GAA A G GAAAAAAACCGGAAAAGGCCG G GAAAAGCCCAGGGGAAAAACGAAAAAAAGGAGAAGAGACCC $C \subset C G G A A A A G G A A A A G G G A A G G G A A A A G G G G A A G A A A C A A A C$ CAAAGCCGGAAGGCCGGGGCCAAGGAAGGCCGGAAGAGAAAA GAAGGCCGGAACCAGGGAAAACCGGGGAGCCAGAAGACAAAAA A A A A A A A $\mathcal{A} G G G G G G G G G G G A A A A G G A A A G A A A A A A T T C A A A G$ A G G G G A A A ACCAAAAGGAAAAGAGGAAAAGAAGGGAAGAAAA CAAGGGAGGGAAAGAAACACCGGACGGGGGAATAAGAAAAAC CAAGAGGAGCCCCAGAGCCGGTAGGAAAACCAAAAGGCAAGA G GAAAAACCAGAAAAAGGGAAAAAAGGGGACGGGGAGGAACA GAAAA A A $A$ A A $\mathcal{A} G G G G G G G G G G A G A A A C A G G A A G G G G G G A A A A A$ A G G G G A A G GCCAAAAACAAAACAAACCCGGCXAAGGAAAAAAG G G G A A GA G G GACCACAAAGAAGGGGGAAAAAAGAAAAGAGGG G G G A A T T G G GACC G G G G G G G G A A G G G G A A A GA G C CAC G GAA $C$ A GAGAAACCGGAGAGGAAAAGAGCCGGGGAAAAGGAAACAAG
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 GAAGGAAAAGGAACCGGAGGAGGGGAGAAACAGAAAGTXGAA

G G GAAAAGGGGGGGGAAAGAGAACCAACCGGAAGGGGACCCG G G G G G A G G A A A C C G G G GAGAGGAGGAGACGGAAAAAGA GAA $A$ A G A G A G A G A G G A A G G A G G G A G G G CAGGGGAAAACAGGAACAG GAGAAGGGGAAGGAAAAGGAGAGGGAAAAAAGAAAGGGACAA A G G A A A A T TAAA A G G G G G G G G G GCCAGGACAAGGGGGTTGGA AAAGGGGGGGGAACCGGAAAAAAGAGGGAAAGAGGGGAAACB G G G G G G G G G G A A A G G A A G G GAAAC GAACC GAAA AA GAAACCC CACAGCAA GAGAAGGGGTTGAAAAAAAAGGGCCAGGGCAGGA G G G A A C G A A G G A G G G G G A A A C A A A A G G G G G G C C G G G G G A C G G AAAGGAAGGAAAACCGAGGAAGGAAAGGGGAAAGAGGGAAAG G G GAGGC G G G A A A G GAAGGGGAAAAAGGACCGGA GAAA G GAA G G G G GCAGGAAGGAAGAGAGGGGCCACGAAAACAAGAGAAAA G GACC G GAACCGGACCCGGGGGGAAAGGGCCACCAAGGAACA GAGAGAAACCAAAAGGAGAGGAAGGAGAAAAAAGGGAAAGGG GAAAAAATTGGGGCGAAGAAGAAGGAAAAGGGGAAAAAGGAG GAA A A G GCAAAGGAGGGGAGGGGAGGGAAGGAAAAAGAGAA G GAAGGGAGAAACCGAGAGAGGGGGGACAGAAGGGGAAAAAGA GAGGGGAAGGAGAGACCAGAGGAGAGAGAGGGGGGGAAAGAC A A G GAGGACAAGGGGCACAGAGGAGAGAAAAGGGGGGGACAC AA $A$ A A A GACAGCAAGAAGGAAGGAAGGGGGGAAAAAAAACAG G G G G G G GAAAACCGGGGAAAAGGTTGGGGGGGGAAGGCAAAG GAAAAAGACGGAAAACCACAGAACCGGGGAAAAAGAGAAABA A A A A A A A G G G GCCA A $\mathcal{A} G G G G G G G G G C C G A G A G A G A G A A A G A A$ A A A A A A A G GAA $A \operatorname{GA} A G C A A A G G G G A G G G T A G A A A A G C C A A A A C$ CTTGGGGAAAAAAAAGGCCGGCCAAAAGGCCAAAACCAAGAC C G G G G G GAAACGGAAGGGAGGGAAGAATACCAAGGCCCAAGA A G G G GCC C G G G G G G G G GAA A GAA A C CAAAAAAGGGGGGAAG A A A A A A A G G A A A A G G A A A A A A A ACCAAGGGGAAAAAAAAAAGAA $A C C G G A G G A G G G A G A A C G G G A A G A A A G C A G G A A G A G A G A G G A$ AAAGGGGAAGGGGAAAACAGAAAGGAAAAGAAGAAGACAA GAG A GAGGAAGAAAAAAGGGAGGAAGCCAAAAAAAAAAAAAAAAG GCCGGCAAAACAAGGAAGAAAGAAAAGAGAAATAGGGAAAAC A GACCGAGAAAGAAAAATAAAAAAACCGGAAAGGGAGAAAAG A GACCAAGGAAAGGGAGGGGGGGACCCGGCCGGAAAAGACAG A A A AC GAACCACAAAAGAGACCCAAAGAAGGAACCGG
A G G A A GAGGGCCAAAAGAGAGGAGGAAGGGAGGACAGGAAA A G GAA A G G GAGAAGGAGACAGCCGGAGGGGAAGGAAGAAAAG GACCACAAAGGAGAGGGACCAAGAACCGGGGAGGGAAGACAG GAAAAAGGAGAGCGGCAAGGGGGCCAAAAGGAAAGGACACCC C A A G A G A G G G A A G G G A G G G G A A G G G G G C C G G G G A G C A G A G G A $A C C G G G G C C G G A G A A G A A A G G A G C C G G A A G G G G G G A A G A A A G$ G GAG A G G A A G G A A G A A A G G G GCCAGGACCAAGGCCGGAACAC CAACCAAGGAAAAAAAAGAAGGGGGGGGGGGAGGACAAACAC $C \subset C G A G A G G C C G G C C G G A G A A A G G A C A G A A A C C A A A G G A G G G$ G GAGGAAAAAACGAAAGGAGAGAGGAAAGCGAAAAGGGAAAT ATAGGGAGGAAAAATCATAAAGAGGAAGGGGGGAGAAAACAG GAAACGGGGAGAAAAGGAAGGAAGAGGAGCCATAACCCAGAC
 A G G G G G GCC C G A A A C GAGGAGAAGAAGGGGGAAAGGGGAAAA A GAGGGCGGGAGAAAAAAAAAGGAAAACCGGCCAAGAAAAAA $A C C G G C C G G G G A A G G A G A G A A A C A G A A G A C C A A A A G G G G G G G$ A G G A A A G A GAAGGAAGGCCGGCAGGGGAGGGGGAGAAAAAAG G G A A G G G G G A A G G A G C G G A A G G G A G G G G A G G A A G G G G A A C C G AAGATGGGGAAGGAGCACAAAAAAAGGGGGAAAGAAGAGGGG G GAA $A \operatorname{GAAA} \mathrm{~A}$ G G GAAAGAAGACCGGCAGAGGAAAAGGGAAGA GAAA A G G G G A A A G G A G G A A T T G G A A G G C G A G GA GAAACA A A G GAAGGAGACAGGAGAAGAACCAAGGAGGAAGCCGGCCAAGBA A G G A G G A A G G G A A C C A A A G G G G G G G G G A A GACA A A G G G A A G G


A G G G G A A A A A A GAAAGGAAGGGAAGAAGGAAAAAGGGGAAAA
 G G G G G G G G A G G A A G GA $A$ A A A A A G G G GAAA A G G C C G A G G C C G A G G G G GAA ATTGAAGCCAGAAGAGAGGAGAGCCAAGGAAGAAAA A G GAGCACAAGGGGAAAAAAAAAAAGAGAAGAAAAGAAAAAC A GCGGCCGGGGAAAGGGGGAGACAGAAGGGAGGCCCCAAAAC CAAAAAGAGGGAAGGGGAAGGGGAAAAAAAGAAGGCCGBCCC C G G A A C C G G G GACACC GAGGGTTAACGAGGGCAGGGGGAACA A A G G G A A G G A G G G G G C A G A G G G G G G G A G G G A A G A C C A G G G G A G GAGGCCAAGGGGGGCCGGGAAGAGACGGAAAAACGAGAAAA ACCGGCCGACCAAACAAAATAAAGGACAAGAAAAAGGAGCGG G G G A G G G A G A T A A A C G G A G G G A G G G G G A G G G G G A G A A A A G G A TGAAGAGGAAAAGAGGGGGAAAAAAGGCCAAAAGGGGAAAAC CAAGGGAGAAAGAGGACAGCAGAGAGAGAAGGAAGGAGAGAC CAAA $A \operatorname{A} A \mathrm{~A} G \mathrm{G} G C \subset A A G G G G G G A G C A A A A A A G A C A G G A A G G G G$ GAA A A G G G GAA $A \operatorname{G} G A A G T A G A A A G G A A A A A A A A A A A A G G T T G$ A A A A A G G G GAATTAGCCGGCAGAAAAGAACCGGGGGGATCCA GCACAAAAAGAGAGGAGAAGGAAAAGAGGAGAAAAAAAAAAA A G G G GAA $A \operatorname{AGGGGGC} C A A A A A G A A A A G G G G G A A A A A A C A A$ AAAGGGGAAAACCGGAAGGGGCCGGAAGGGGAAAAGGGGGGT TAAGGGGAAAAGGAAGGCCAAAACCCCAAGGAAAAGGGGAAG GAACCAGCAAGAGCCAAGGAACCGGGGGGAGAAGGCCGGAGG
 C C C A A C G G A G G GAA A $\mathcal{C} G G G G G G G G G G A A G G G G A A A G A A G G G G G$ A GAGAAGGAAGAACCAACCGGAAAAAGAAGAGGCACACAAAA CACGGGAGAGGGAAGCGAGAAAAAAAGCAAGGAGAGAAGGAC AAAGAAAGGGACCCCGGAAGGAAGAAGAGAGAGAAAACAGAG G G G A G G G A A G G G G A G G G A G G G G G C C G G G G G GAGCC G G C C A A C A G G A A A A G G A A A A G GAA $A \operatorname{AGGGGGGGCCGGAAAAGGCCABAAG}$ GAAGGAAAAGGAAAAGGACAAGGGACCGGAGCCGGGAGAAAG G G G G A G A A A G A G G G G G A A C G A A A GAGAAACC GAA GCCGGCCA AAAGGGGGGGAGAAAGGAAGGGGGAGGGGAGGGGGAGGAACA ACAAAAAAGGAAAGGGGCCAAAAGAGGGGGAGAAAGGAAAAC AAGGGAAGGAAAAAACAAACCGAGAGAGGAACGAAGAAACAA C C C G A A G G G G G G G A A A C A G A A G G C A A G G G GAC C C C G G G G G G A A A A GAGGGGGGGGGAGAAAGGCGAAGGAACGACAAGGGGGGG GAAAAA AAGGAAGGAAAGAATGGGGAGAAAAAAAAGGGAAAA G G GAGGAACGAAGACGAGAAAAAAGACCCGGCCCAAGAAAAA GAAAGCAAAGGAAGGGGGGAGGAAAAACCGGGAGGGGAAAAA A A A A A GAAA $A$ A A A A A GAAAAAAGGACAACCGGCGGGGAACAC G G G G G A A A A A A G G G GAAAAAAAAAAAAATTCCAAACAGCAGAA G G GA GAACCAGAAGAGAAAAAAGGAGGGGGGAAGGAGGACCT
 GAGGGCCGGAAAAAGGGGGCCGGGAGGGAAGGGAAAGAAGAA
 G G G G A A A A A A A G G G G G G A A G G G A G G A A GAGAAA A GAGCAAAC C G G A A A A C CAA A G G GAAGGGGGGGGAAGAAAAAAAGGGAAAA G G G GAA A G G G GCCAAAGCCGGGAAGGACAGGAGAAAAAAGAG $A C C G G C A A A A A A G G A A A G A A G G A A G A G A G G G G A A A G G G G G G G$ G G G A A A A A A A A G G G GAAAA A GCCAAGGCCGGCAAAGGCAACA GAAAGGAAGAAGGGGAAGGGAAGAAGGACAGAGAGGGGAAAG G G G G G T T A A G G A A GAGGGGCAAACCAAAAAGGGAACAACGGA
 A G GAGAAAAAGAAAACCGGGGAAAAAAAAGGGGGCAGAAAAA A G GAAAGCCAAGAGAGGAAGAAAAGGGCCAAGAAAGAGAACAA A $G G A A A A A G G G G G G G G G G A G A G G A A A C C G C G G G G A A G G A G A A G$ A GAG $A \operatorname{GGG} \operatorname{G} A C C G G G A A A C G A A G G G G A G G A G G G G A A A A A A A A G$ GAAGAAGAACCGGGAAAGGGGGAGGAGGAGAGAAAGAABAGA AACGAGAAAAAGAGGCCGAAGGGAAGAGATAAGAAAAAAGGA
 G G G C A G G G GAA $A \operatorname{GAA} A G G A A A A A A C A A A G G G G A A A A G G A A T T C$ CAC G G G G A A A A A CACA $A \operatorname{AACGGGGGGAAACGGAAGAGAAGAGC}$ AC GAA $A \operatorname{GA} A A A C C C C G G A A C A G G A A A A A G A A G G A G A G G A G G G$ G G G G G A G G A G G G G A A G G G G A A A A G GA GA GAA A G G G C C A G G G G G G G G GCC G A G G G A A G A A G A A A G G G G G G A GAGGCATCC G G A A G GAAGGCAGACCCCGGAAAGAAGGGGCCAACCAAGBAGAGGGG AGGTAAGCAGGGGAAAAAAGAGAGAAGGGAAAAAAAGGAAAA GTTGACACAGAAAGGAAAAGGAAGAGAGGCCAGGAAGGAACA AGGAAGAGGCCCAAAGGAAGGAACCGGCCAAAAGGCAAACCG G G G G A G G G GCC G G A A A A G G G G G G G A C C G G G G G G A A G G A G C A A
 A G G A C G G G G A A G A G A G G G A A G G G G G G G A G A G G A A $\mathcal{A} A G G G G G G$ GAGGATTAAGGAACCGGAAGGCCGGGGCCGGGAGGGAAGAGA G GAGAGGAAGGGAAAGGCCGGAAAGAAGAGAACCAAGAAACA A A A A GAAGGAGAAGGGGGAAGCCGGAAAGAAGGGGGAAAAAA GCAGGAACACAAACCAGAGAGGGGGCCAAAGAGAGGAGGGGA

 GA $A$ A A $A G G G G G A A C C G A A A G G G G G G A A G G G G A A G G A A A A G G G$ GAGGAGAGGAGCCCAGACCGGGGAAAAGAGCCAAAAAAGAGA AAAGGGAAGAAAGGGCACAAACAAGAAGAGGAAAAGGAGGAA A G A A A A GACAA A G G G GAATTAAAGGCAACAAAGGAGAACAGGA A A G G A C C G A A A G G A GAGAAAAAAGGGACCGAGGGAAGAAGGG A G G G G A A A G G A A G A G A G A A A A A A A A A A G GAAGGGG GA GA GA C C G G G G A GAGGAAAAAAGCCGAGGGGGAAAAAAGAAAAAAGBA CAGAGAAGGAAAAGGGGGGAAGGAGAGCAAGGGCCAAAGGGG GAGGAGAGGAAGAGGAGACAGCCGAAGGAAGACGGGCAAGAA G G G A A A G A GAA $A \operatorname{GGG} \operatorname{GAA} A A A A A A G G G G A A A A A G A G G A A A A G G$ G G G G G G G A A G G G G A A A A G G A G G G G G C C C C G GA $\mathcal{A} A A A G G G G G G$ G G G G A G G C A G A C C G G A A A A C C G G G G C C G G A GAA A A G G A G G G A AAAGGGGGAGAGGACACACAAAAAAAAAACCGAAGGGAACAA G GAGGAAAGGAGAGGAAAAGGCCGAAAAGAGCCAAAAGGGGA A G G G G A A A C A G A A A G G GAGGGC GCCGACAGAAGAAAGACGGA A A A C A G G G G A A G G G G C C A G A A G A A $\mathcal{A} G G G G A G A G A G G G$
G G G G A A G G G G G G A A A A G G G G A A G G G G A A A A A A A A G GAA $A$ G G G G G G G A A A GAA $A \operatorname{GAA} A \mathrm{~A} A \mathrm{~A} G A T A A G A G G G G A G A G A A A A A A A G G$ GAGAGAAGGACGACCAAGGGAGGGGAAGGACGGGGAGAAGAG GAGAACCAGGGAAAGAAAAGGGGGGGGGGGACCGGAACAAAA A GAAA A $A \operatorname{G} G \mathrm{G} G A A G G A C C G G A C A A A A G G C A A A A A G A G A A G C A A$ GAAGGGAAAGGAAGGGGAAACAAAAGGACAAAAGGGGAGGGG GCACCGAGAAACAAGAGAGAGGAGGTTAAAAAAGGGGAGTAG G G GAAAAGGCAAGGGAAGGGGAAAAAAAGAAAAACAGAAGAA GAGGAGAACGGAAGGAAAAAAGGGGGGCCGGGGAGAGAGAAG GAAGGCAAAGGAAAAAAGAACACGGGGGGGGGGGGACAAGGC CAC G A A A A G G G A A A G G GAA A GAAAAAGAGGGGAAGGGGAAGAA A G G G G G A A A C A T T G A A GAGAAA $A$ A T TAA G G G GACA A G G G G G C A GAAAAGGGGAAGGAGGGGGGAGAGAAGGAAAAAAAAAACGBA A G G G G A A G G G G G G G A A A G GAAAAAAAAAAAGGCAAAGGGAACA A A C G G GACCGAAGAAAGAGAACCAAAAGAAAAAGGGGCCGGG G G G A A A A G A A G A A G A A G G G A G C A A G G G A GAGAGCA G G T TAA A G G G G GAGAAAAGGCACAAACAAGGGGGGAAGGGGGAAAAAAG GAAGGCCGAAAGAAGGAGGGAAGAGAAAAGGGGTTGAAAGGG G G G G G G GAAAAAAAAGGAAAGAAAAAAGGGGGGAAAAAAAAG G GAAAGGAAAAGGAACAAGGAGGGACACCAGGGAACACAGAG A A GAACCGGGAAAAAGAAAGGGGGGGGGAAAAAGGCCGAABA A A G G G A A G G G G A A G GAAAGCCCCGAATGGAAAGAAGGAAAAA A A A A A A A G GAACC G G GAGAAGAAAAGGACGAGGAAAAGACAA $C G A G A G A A G A G A G G G C A G G G G A A A G G A A A G G A A A A A A G G A G G$

A A G G G A A C C G G G G G GAGGGGGGAAAGGGACAGAGGAGCAAAA A G G GAGGGGAAAGAAAAGGAGGAAAGGGGCCGGAAGAAAAAG AAAGGGAGGCAAAGGGAGGCCAAGGCGCCGGAGGGCCGGGGA A A GAGAGAGGGGAAAGGAGAGCGAGCCAGGGAGGAGAAGGAA A G GA A A A A GAGAGAGGAGGAAAAGGGGAGCAAGGGGAAAGAA A A GCCAAGGGGAAGGAAAAAAAAGGAAGGAAGAAGAGAAAAG A GAGAGGAAGAACATCCGGGGAGCAGAGAGAGAGAAAAAAAG AAAAAGGAACCAACAAAAGGAAAGGAAGGGGAAGGGGGAGGG GCAGAGGGGGGAAAACCGGGAGGCCCAAAGGGGGAAGAAAAG GAAAAAAAAGACCGGGGAAAAGAAAAAGGAGGAAACCGGGGA $A C \subset A A A A A A G G A A A A G G G G C C G G A A A A A A G G A A A A A A A A G G A$ A G G G G A A A A G G A A A A A A A A G G G GCCGGAAAAGGAAGAAAAAC C G G G G G G A A A A $\mathcal{A} G G G G G A A G G G G G G G G A A G G G G G G G G G A A A A$ ATTCCAAAAAACCAAAAAAAAAACCGGCCGGGGGGGGGGCAA A G G G G G G G G A A A A G G G G G G A A G G G G C C G G G G G G G G G G A A G G G GAAAACCGAGAAAGGAAGGAACCCCAAACAAGGGGGAGAGAA
 A G GAGGACCCGGAAAGGAAAAAGAGACGGGGCCAAAAAAACAA GAAAAAAAGAGAAAAAAAGCCGGGGAAGAAGAACCCACACAA A A A A G A G A A A A C CAAACAAGGAACCGGCCGGAACAGGGGGGG1 GAAGGAGCCACAAGGCAAAGGAAGGGAGGGGAGAGAAAGGGG G G GAA A GAAAA $A$ A A A C GAAAAAGGGGGGCCGGGGAGGGCAAAC G GAA A A A G GAA $A \operatorname{AGGGA} G G A A A G G A G A G C X A A A G G A G G G G G G A$ GAAGGGGAACCAAGGAAAAGGGGAAAAGAGGAAAAAAAAGAA
 AAAAGGGGAGAAGGGGGACAGAAAAAGGAAAAACCAAAAAAG G G GAAAAAAAAGGGGGGAAAAAAGGGGAAGAAAATCAAAAAA A A A A G GAA A G G G G A A A A A GAGAGGGGGACAAAGACAAAAAAA A GAA A G GCCGGAGACAGGACAGAGAGGGGAAGATTCACAAC G AAACCAAAAGGAGAAAAGAAACCCCAAGGAAGGGAACTTGGG G G G A A G G A A A A A A A A A G G A C C A A G G A A A G G G G A A A A A A A A A C A G G GACAAGGGGAGGAGGAAGCCAGGGAAACGAGGAGAAACAA CAAAAAAGGGGAAAAAAAAGGGGGAAAGGAAAAAAGAAACAC ACAA $C \subset A G G A A A G G G G G C C A A G G G A G G C C G G A A A G G G A G A G A$ G GAGAGGGAGGGACCAAGAACGGGGGACCAGCACACCAAACA A G GCCAGAAAAAAGGGAAAACAGAGAGGACCGAAAAAAAGAA G GAA A A GAAAAGGGGCCAAAACAGGAAGGAGAACCGGAAGGC CAA A G G GAGATAGAGAAGGGAAAAGGGAAGGGAGGAAAGAGA A G G G GCCGGGAGGCAAGGGAGAAGAAAAAGAAAAACAAAAAA
 $C G A A G C C A G A G G A C C C A G G G A G A A A A G G G A G A A A A G A A A G G A$ G GAGAGAGGAGCCAAAAAAAAAAGGAGGAGAAGGGAGGAAA G GAGGAAAGAGGGAAAAAAAAGCAAAGGCCCAGAGGGGGGCCG GCCAAGACAGGGGACCCAAGACAGAGGGGGGTAGGAACCGGG GAAAACCGGGAAGGAAGAGAAAAGAAGGAGGAAAGGAGAGAA GA $A$ A $\operatorname{A} G A G A A G A G A G A T G A G A A C G G A A G G G G G G A A G A G A A A G$ GAAGGAGAAGGACAAACGGGAGGGGGGCCAAAAGGAGAATTA A G G G G G GAAAAAAAAAAAAAAGGGGAAAAGGCCAA GGGGGGA A G GAA A G G GCCAAAACCGGAAAAAGGATAGGGGAAGGGAAAA A GAGGGGAAAAAATTAAAAAGAGAAGGAGGAGGAAGGGAAAG GAAACGGGGGAACACAAAAAAAAAAAAAACCGGGGAAAAGAA GAAGAGGAAAGGACAAGGAAAAGAGACGGAAAAGGGGGAAAA A GAGGGGAGCAAAAGGGGGAAAAGGAAAGAGGGAAAGGAAAA AGGCCAAAAGAGGGGAAAATTGGGGGAGGAGAAGGAAAAGAG G GAAAGGGGAAGGGGAACCGGAAGAGAGGCCGGAGGGGAGAA CACATAGAAGGGGAAAATTAAAGGGAAGGAGAAAGCCAGGGA GAGACCGAGAAAGAAGACCGGGAGAGACAACAGGGABACGGG
 GAGACAAAAGGGGAAAAAGGAAAAAGAAGAGCAAAGGAAAAG

G G GAGGGGAGGAACCAGGAAAGGAGGGCCAAAAGGGAGAAAA GAAGGAACAGGCAAGGAGGGGGAGAGGACCCAGAAGAAAAAC CAAAACCAGGAAGGGGGAAGAGGAGCCAAGGAAGACAGAAAG G GACCAAGAAAGAAAAACCCCAGAAAAGGAAGAAAAAAGGGA
 G G GAA A GAGCGAAGAAGGAAAAGCAGGAGGGAAACGAAAAAG
 G G G G GAA $A \operatorname{GGA} G \mathrm{G}$ GAAGGAAAAAAGGAAACAGAAAGAGGACAA G G GACAAAAGGAAAAAGCCGGAACCGAAAGGAGGAGGCAAAA AAAGACCAGGAGGGGGGGGGGGGAAAAAAGGGAGGGGGGCCA A A A G G A A A A A A G G G G G G A A G G A A A A A G GAA A A GA GAA G G GAA G G G A A A A A A A CAACCGGAAGGAAGGCCAAAAAAAAGAAAGAG A A A A A G G G GAAAACACGCAGGCCCCGGAAAAAAGGGAGAAGG G GAGAAGGGGAAACCCCAGCCGGAGAAGGAAGGGGGGCCGGG GGGAACCCACAAAGGAAGAAAAAAAGGAACCCCAGAGAGAAG

 A G G GAA A ACCCAGCCGGCCGGAGAGGGAAAGAGAACAAAGGG $G C C G G A A A A A G A A C C A G G A G G A A C C C C A A G G G A A G C C C A A A C$ A G A A A G G A A G A GAA A A G G G G G G GAGAGGAAGGGAAAAAAGGA
 GAAAAGGGGAGGGGGGGGGGGGGGGAAAAGGAAGGAAAAGAA A A A G G A A A A A A A A A GACGGGAGGAAAGGAGAGAGGAGAAAAG G G G A A G G A A A A A A $\mathcal{A} G G G G G G G G G A G G G A G A A G A A A G A G G G G A$ A G G G G G G G G G GAA A A GAAAAAAGGGAAGGAGGAAAG GAAAAAA GAGCCAAAGAAGGGGCGAGAGGGCAGGAAACAGAAAGGGGGG GCCGGAAAAAAAAGGGGAGAAGAACAGCAAAAAGAAGGGCAG GAGGGAAAAAACCCCCCGGACCCCCGGGGAACAAGAAAGTXG G G G G G G G A G A A A G G G A A A A A A A A G G G A G G T T G A G G GA G G G G G GAGAGAGAAGGCAGGACAAGGGGGACAGGAGGGGAAACAGAA GAGGGGAGGACAGAGGAGGGAGGACAGGGCCAAGAGGGAAGA ACAAAGACCCCCCCACAAACACCAGGAGGAAAAGAAAGGGGA A A A G G G GCCGGGGAACCAGGGAAGAGGAGAGGGGGGGCCGGG $A C C G A G A A G G A C C A C A G A A A G A A A G A A G C A A C C C A G G A A A A G$ GAAGGGGAAGGAAGGCCGGCAAAGGGGAAAAAACAAG
$A G C C G G C C G G A A G G G G C G G A A G G G C C A A C C A G G G A G A A A A G$ GGAAAAACCGGGAGACAGGGGAGGGAAAAAGAAAAAACAGGG GGGCCGGAAAAGACAGGAAAAAAGGGAGGAGGAAGACAAGGG

 AACAAGAACGGAGATGGAAAGAAGAGGAGGAGGGGAAGAACB G G G G G GAA $A \operatorname{GA} A G G A A A G A G G A A G A G A G A A A A G A G G C A A A A A G$ $A G G G A G A G A G G A G G G A G G G G G A G G G G G A G G G G A G G G G G G A G A$ G G A A G G G G A G G A G G G A G G G A A A G G A G G G A A A G G A A G G G A G G G A A GA G A G A A G A A G A A A A A G GAA GACAGGGCCAGCAGGGAAAA GACAGAAGGCCAAAAAAAAGGGGGGCCGGCCCCAAGGAAAAG G G G A A G GAACACCGGGGGGGGAACCCCGGGGAAGGGGGAAAA AAAAAGGGGGGGGAAGGCCAAAAGGGGCCAAGGAAAAAAGGA
 A G GCCAAAAGGAAGGAAGGGGAAAAAACCAAGGAAAAGGGGA AAACCAAGGGGGGGGAAAAAAAAAACCAAGGGGGGAAAAGGG GGGAAAAAAAAAAGGAACCAAAAGGCCAAAAAAAACCAAGGC C A A A A $\mathcal{A} G C \subset A A G G G G G G G G A A G G G G G G A A A A G G G G A A G A A A A$ AAAAAGGGGAAGGGGAAGGGGCCGGCCAAGGAAAAGGCCGGA $A C C A A A A A A G G G G A A A A A A G G G G A A G G G G A A G G A A A A G G G G G$ GCCGGGGGGAACCAAGGGGAAAAGGGGAAAAAAGGGGGAAAC
 A G G G G G G G G A A A A $\mathcal{A} G G G G G A A G G A A A A A A A A G A G A A G G A G G A$ AAAGGGAAGGGAGAACGGGAGAAATGGAAGGGGAAAGACACG

G G GAA A A T T GACAAATTAGCAGGGGAACCGGAAAAAAAAAAG GAAGGGGAAGGCCGGGGGGAAGGGGGGCCAAAAAACCAACAA ACCGGAAGGAAGGGGGGAAAAAAAAGGGGGGCCCCCCAAGGA $A C C G A A A A G C A G G G G G G C C A A C C G G G G A A G G G G A A A A A A A A A$ A A A G GAAAA A A A GAGGAGGGAAGAGGGCCAAGGTTAACCAAA GA G A A A G A GAA $A \operatorname{GAAAGGGACCGGAAAAACGAGAAAAAGAAAA}$ GAGAAGGACAGAAAGGGGGGGAAAAGGCGCCAGGAGAAAAAG GAACACCAAGGAGAGAGAGATAAAGAGAATTGGACAAAAAGBG A A A A A G G G A A C G A G GAAAA A GAGAC GAAAAGGGGAGGGAGAG GAAGGAGAGGGCAGGGGCACCGAAAGGGGAACGTTAAGAGGG GAAAAGAAGGAGGAAGGGGGAACAGAGAGAAAGAGCCAAAAAA $A G G C A G G A G G A C C A A A G A G G A A G A A A G G G A A G A G A C C T X G A G$ A A GACAAAAGGGACCAGAAAGAAGGAAGGAACCAAAAGAAAG GAACCGGGGGGAAAGAAGGCCAAGAAAAGGAAAAACAGGGGA A G GCCAAGGGACAGAGGAGGGAAAGGAAGCCGGGGGAAAAGA G G G G G G GAAAA $A$ A $A \operatorname{GAAAAGGAGAAGGGAAGAGGAGGGGAAAA}$ GA $\operatorname{A} A A A A G G G G G G G A A A G G C C A A A G A A G G A A G G G A C C A A C A G$ GCAGGGAAAACAAGAAGGGAGAGGGAAGAGAGGGAAAAGGGG A A A A A GACCGGAGGGAGGGGGAGAGGGGAGGGAGGGGCAAAA A G G G G A C G G G G A A G G G G A A A A G G A A A A GAGGGGGGAAA GA C A $C G G A A A G A A G G C C G A A G G A C C A A A C A G A G G A G A A G A A C A C C C$ AACCACCAAGGGGAAAACAGACAGGGGGACCAAAAAAGGAGG A A G G G A A G GAAAGACAGAGCCGGGAAAGGGGAAAAGGCAA GA $A G G G G G G A A A G A G A A A C G A A A G G G G A G A A G G A C G A A G A G G A G$
 G G GAGAGGGGAAAGGAAGGAAGGAAAAGAAAGGGGGAAAAAA A G G G G GAAAGGACAGAAAACCGAAGTTGGAAGAAGGGGAABA TCACCCAGAGGAAGGAGAAGGAAAAGGCAGGCCAACCCCGAG G G G A G A A G G G G G A G G G G C C G G G G G G A A A A G G G A G G A A G G G G A A A A A A A A G GA GAGAAAAAAAGGGAAGGCCGGCXAGGGGGGGG
 C GAA A G GAGAGGGAAAAAAAGGGGGGGGGCACCAAGGGACAA AAGGAGGCAAACCGAAGAAGGGGGAAAAAGGAACCAAGAAAG GACCACCAAGGAAAAGGAAGGCCAGGGAGGGCCAAGGGGGGG GAAGAGAGGCCGGGGGGGAAGACGGAAGGGGCCAAGGGGGGA A G G G G G G A G G A G A G A A G G G A A A A A A A C A G GA G G A A G G A A G G G GAAAAGGGGAAAAGGGGGGAAGGGGAAGGCCAAAAGGGAAAG GAAGGGGGGAAGGGGAAAAGGCCGGAAGGAAAAGGAAAAGAA
 A A A G G A A G G A A G G A A A A T T G G G G A A G G G G G G G G A A A A A A G G G GAAAAAAAAGGGGAAGGGGGGAAAAGGGGCCGGGGCCBAAAC
 G G GAAGGAAAAAAAATTCCGGAAAAGGCCGGAAAAAAAAAAG G G G G G A A G G G G G G G G G G C C G G G G A A A A G G A A A A G GAACAAAA A G G G G A A A A A A A A A A G GAAAAGGGGAAGGAAGGAAGGCAAA G GAACC GAACAGGGAAACAAAGGGGGAGCCGAGAAGGGGGGGA G G G G GCCAAGGGGAAGGGAGGCCGACAAGAGGAGAAAAAGAG A GAAAAGCCAGGGGGCCGGGAAACAGGAGGATTAAAAAAGEA A GA A G A A G G A G A G G G A G G G G G G A G G G G A A A G G G A A A A A A G G $G$ G G A A G A A A A G A A G A A G G G G G G A A T T A A G G G G A A A A A A G G G G A
 A G GAGCCGGACAAAAGAGAAACCCCGAAGAGAAAAGGA GA GA A A A A A A A A A A C G G G G A A A GAA $A \operatorname{A} G A A G G G A G A G A G G A A G A A C B$ GAGGGGGAAGGGGAAGGAAAAACAGAGGGGGAGGGCCAAAAA CAC $\mathrm{C} A \mathrm{~A} G \mathrm{G}$ G A A GAGGCCGGGGGGAAGGGAAAAACAGAAAAGA CAA $A \operatorname{G} A A A A G G G G G G G G C C G G G A A G G G A A G G C A A G G G C G A A A$ AAAGAGGCCGGAAAAGAAAGGGGCACCCCCCAGACAGGGGAA
 A G G G G G GAAGGAAGAAAGGAAAAAAGGAACACAAACAAGCCA
$A \subset C A A A A A A A A A G G G G G G G A A A A G A A A A A A A G G C C C C G A A A A$ A G G G G A GACAAAGCAAGGGAAAGAAAAAACAAGAAAGCAGGA
 A G G G G G G G G G G G G T T G G G G G G G G G G A A C C G G G G G G G G A A G G G GAAGGAAGGAAGGAAGGAAGGCCTTAAGGGGAAAAAAGAAAG GAATTAAAACCAAGGAAGGGGAAAAGGAAGGAAAAAAAAAAG GAAAAGGGGAAAAAAAAGGGGGGAAAAAAAAGGAAAAAAAAA AAAGGAAAAAAAAAAAAAAAAGGAAAACCGGGGAAAAGGGGA $A C C G G C C G G C C A A G G G G A A A A A A G G A A G G A A G G G G A A G G C C A$ AAAAAAAGGGGAAAAAAGGCCGGCCGGGGGGAAAAAAGGAAG
 A A ACCAAAAGGAAGGGGAACCGGAAGGAAGGGGGGAAGGGGA

 A A A A A A A A A A A G GAACAAA GAAAGGAGGGAGAGGAGGGAAAA G G G G GCCAGGGCAAAAGGAGAGGCCACAACCGAAAAGGGGGG GAACGAACCGGGGGGGGAAAACCGAAAAAAACCGGAAGGGGC C GAGAGGAAGAGGAGCAGGATAGGGGGGGAAAAGAAAGCGGG AAAGGGGAAGGAAGGAAAAGGGGGAAGGGCCGGAGACGAGGG G G G G G A A A A G G GCACAGGGAGGAAGAAGGAAGAAGCAA GAA G GAAGAAAAGAGAGAGGGAGGGAAAACCGGGGCAGGGAGGGGC CAAACGGGAAGCCGGTTAGAAAAGGGGAAAGGGAAAACCCCA GAAAAAAGGAAGGCCAGAAAAGGGGAGGGGGGGGGAGCCGGG A A G G A A G A A A A A G A C G A A G GAGAGGCCGAAAAAAA G G G G G C C A AAACCGGAAGGGGGAGAAACCAAGGAAGGAAGGGGAAAAAAA A A A A A GAGGAGAAAAAAAAGGAGAGCCGGCCGGGGAGAAACA A G G G G G G G G G GAAAAAAGAACCAACGGGGGAGGAAAAAAGAGG $G C A A G A A G A G G A A G G G G A A G G G G G G A A A A G A G A A G G A G A T A A$ CAAGGGAAAAGGAAGAAGGGAGGCCAAACCAAACCAAGGGGG $G C C G A A A G G G G A A G G A A G A G G A G C C A G A A A G G G A A A G A A A A A$ A A CAAAAGGCCAGCAGAAGAAAAACAAAAGGCCAAGGGGGGA GAAAGAAATGGAGAAAAAACCGGAAGGAAACGGGGGGACGAG ACCAAAAGGAGGAAAAAAGAGGGAAGCGGAGCCAACAAAAAA G G G A A A G G G A A A A G G G A A A A A A A C C GAAGAACC GAAAACAGA CAGAACAAGGAAAAGGAGGAAGGAAAAGGAGGABAGG
CAAAGGAAAAAAGAAGAAGGAAAACGGGAAGGAGAGAAAAA AAAAAAAGGCCCCAAAACAAAGGAGGGAGAAGGGGTTAAAAA ACCGGGGGGAACCAGGGGACCGGGGAGGACCAGAGAAAACCA GAAAAAGACGAAGAGAGAAAGAAAGGACAGAACAAAAGAGAA GAACCGGAGAAGGAAAAAAGGAAAAGGAAAGAAGGAAGAAAA A A A A A A A A GCAGGAAAAGGAAAGGGAGAAGAAAAAAGGAGGG GCAGGGGAAAACCGGCAAATAAAGGAAAGGGGGAACCGGGAG G GAGGGAGAGAACACGAGAAAGGGGAAAAAGAAAACCCCAGA A GAAAA A G GAGGAGACCAAGGAAGGAAAAAAGGGAGGACGBC CAAGGGGAGAAGAGGGACCAAGAGAAAGGAAGGGGCAAAAAA A G G C C G G A A A $\mathcal{A} G A G G G G G G G G G G G G A A G G A A C C G A G G A A G A C$ G G G G A A A A G G G A A G GCAAACCGGAAGGCCGACCAAGGGAGA G GAGCCGAAGGAGAGGAAAAGGGGAAGGACAAAAAAGGGAGAA A G GAAAAAGAAAAAAGGCCAACCGGAAGGAAAAGAAAGGGGA A A A G G G G A A A A A A A G G G A G A A G G G G GAAAAGGGGGGAAAA GA G G GCCCCAATTGACCCGAACCGGAAGGCCGAGACAGGAAGEG GAAAACCAAGGGGCAGGGGAAGGCACCAGCCGGTTCCGAAAG A G GCCCAAAAACCGGGGAGGAGGAGCCGAGAGGGGCCGAAAA G G G G GAAGGCAGGAAGGGGAGCCAGAAGGAAGGCCAAAAAAA GAGCCCCAAGGAAAGAGGGAACCGAAGCCTAAGGGGGCAAAA
 GCCGGGGCCGGAGAGAAAAAGAAAAAGAAGGAAAGAGGAAAA G G G A A G G A G G G A G C A G GC C A G G G G A C C C C A G G A G G A A G G G G C $C G G G G A A A G G A G G A G G A C C A A C C G G G G A A G A G A A A G A C A A A G$

GAAGGCAAGGGCAGGGGCATTAAAAAAGGCACCAAAAGGGGA A GAGGGACCGAAAAAGGCCGGAGGGAAGAAAGGGACAGAGAA CAACCAAAAAAAAAACCGGAAAAAGGAGAGGAAGGAAGGGGG GAAGGGGAAGGAAGAAAGGGGGGAAGGGGGAGAAAAGGAAAG AACAGGGAAGAGGGGGAACGGAAGAAAAAAAGACCAAAAAAG G G GAGGAACGACAAGAGGAGAGAAGCAGAGGGGTTAGAAAAG GCCGAAGGAAGAAGGAATTGGGGCAGAAGGACAAGAAAAGGG GGAAGGACCGAAAGGAAAGCCCCAAAAGAGGAAAGGGGAGAG A A G G A A A G A A A GAGGCAAGCCAAGACAAAAGGGCAAAAAAGG G G G GAGAAGACGGGGGGGGAAAAAAAAAAAACCGGAAAGGGA

 A A GA $\operatorname{A} A A A A A G G G \operatorname{A} A A A A G G G G G G A A A A G G C A C G C C A A G A A C C$ C CAGGAAAAAGAAGGCCAAGGAAGGCCGGAAAAGGGGAAGGC C G GAGGGGGAAAGAAGGAGAGAACCAAACGGCCGGGGGGGGA A G G G G A A A A A A G G A A G G A A G G G GAA $A \operatorname{AGG} G A A G G A A A G A G G G G$
 GAAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G GAA A GAA $A \operatorname{A} A A A G G A A G G A A A G A G G G G G A A C C G A A A G$ GAAGGAAAAGGAAAAGGAAACAGACAGAGAGAGCCGGGGCCA G G G GAGACCGGGGAAAAGGAAGAGGAAAAGGGGAAGGCCGGG G G GAAAAGGGGCCGGGGGGAAGGGGGGCCAGAACCGAGAAAA AAAAAACCCGGAAGGAGACCCGGAACCAACCAAGGGGGGGAA A G G A A A C A A A A A A G GAA $A \operatorname{AGGGAGCCAGCCGGGGGGCCAGGAG}$ G G G G G G G G G G G A GAAAA A C CAT G G GAGGCAAAAGAGGGGAAA G
 A G G G G A GAAAGGGGGGGAAAAAGGAAAAAAAAAGAAAAAGAA G G A A A A A G G G G G G A A A A C C G G G G A A A A A A A GAA A A A A G G G G A A G A A A G GACGAGGGGAAGGAGGGAGAGAGAAAACCGGAAAGG GGGAAGGCCACGGAGAAAGCAAAAGCGAAGAAGGAAGAAAGA G G G A A G G G A G G A A A A A A G G A C C C G A C CAC G G G G A G G G G G A A G GAGAAAAGGGGCCAGGGAAGGACCCGGGAAACACCAACAGGA
 G G GAACCGGGAAAAAAAGGGGAAGAGGAAGAAGAAAA GAAGG GAAGGGGGACCAAGGACAGGGAAAACAAAGGAAGGAGGAGGA

 G G GAGAAGAAGCCAAAAAGAGAGGAGGAGAAGGGGGGGACAG A G GAAAAAA $A \operatorname{A} \operatorname{A} \operatorname{A} A \mathrm{~A} A A A \operatorname{A} A A G A G C C G A C A A A G G G G G G G G G G C$ C C C A A C C A A A A C C G GCCA GTTAGGGAGGGAGGA GAA GAA G G A
 A A A G G A A A A G A A G A A A G G G G G A C A CAC GAG GAA G GAA GA GA A G GAAGAAAGAGAAAAGAAAAAAGGGGGGAGAGGCAACGGGGAA A G G G G A GCCAGGGGGGGGGGAAGAAGGAAAAAAA GAATAAGC
 G G A A C A GAGGGGGGGAAAACCGAAGGGGGAACCAGCCBAAAG GAAGGAAGGGGAACCAAAAGGCCGAGAAAAACAAAAAGAGGA AAGAACCAAAAGGGGGGAAAACCAAAAAACCAAGAGAAAAAG A GAGGAAGGAAGGAGAAAAGGAAGGGGGGAGAGAGAGAGAAA C C G G A A GAGAAGGGGAGAAGAGGAAAAAAAAGGGGAAAAGAA A GACACAAACAAAAAAAAGGAAGAAAAAAGGAAGGAAGAAGAA G G G GAGGAAAAAAAGGGGAACCAAAGAGAGAACGGGAAGAAA G G GCC G A C A G G G G C C A A G G A A A A G GAA G G A A A A A A G G GAAA A A G G G G G GCA $\mathcal{A} G G G A A A A A G G A A G A A G G G A G A A A G G C A A G G G G$ GAGAAGGGGAACCAGCCAGAAAAGGAGGAAAGGCGAAAAAAA A A G G G A A A A A A G G A A A A A G G G A A G GAAAAGGAGAAGGCAAAA A G GAACAGGAGAAAGAAAGAAGGGAGGAAGGCAGGGGAAAAA $G G G A A G G A A A A A G G G A A A G G G G A G A A C G G G A A G A G A G G A G G A$ GAGGAGGAGCGGGAAAACAGGGGGGGACAGAGAAGGGTACCG

G G G A G A A A A G G G G G G G A A A G G G A A G G GA GAGCC G GACGGGGA $A C A G A G G A A G G C A G G A A A A G A A G G A A A A C A G A C A A G G G G G G A$ $G T T G G G G A A A A A A G G A A G G G G G G C C A A G G G A A G G A G A A C C A G$ $G C C G G A A A G A A G A A A G A A G A A A C C A G A A G G A G A A G A A A A A G C$ $C G A T T G G A A A G A A A A G G G G A A C G G G G A A G A G G G A A A A C C G G G$ GGAGCCCGGCCAGAAAACCAACCGAAGAAAGAAAGGCCAAAA A G G A A C G A A G GCCTAAGAGGGAGAGAGAAGGAAGAGGAAGGG $G G A A G C A G G A G G A G G A G A G C C A A A G G G A A A G A A C C G G C A A G A$ G G G A A G G G G A A A A G G C C A A G G A A G G C C A A G G C C G G G G G G G G G G G G G G G GCCGGCCGGAAAAGGGGGGAAAAAAAAAAAAAACCG G G G G GCCCCAAAAAAGGAATTGGAAAAAAAAAAGTTTAATTA A A A A A A A A A A A A A A A G GAA $A \operatorname{GAAAGGGGGGAAAAAAGGAAAAA}$ A A A A A A A G G G GAACCGGCCAAAAGGGGCCCCGGGGAAAAAAG GAAAAGGGGGGAAAATXAAGGGGCCGGAAGGCCGGCCGGCCG G G G A A G G G G G G G G A A G G G G A A T T C C C C C CAAA G C C C C A A G G A AGGCCAGACAGAGAAAGAAACAGAAGGAACCGGGGAAGGGAA C G G T T A A G G G G A A G G G A GA G G G A A A A A G G CA $\mathcal{A} G G G A A G A A A G$ A G G A A A G A A G G A A A G G G A G G G G G G G G G A G A A G G A A A G C C A G A $A C A G G A A A A G C G G G A G A G G C C G G A G A T A G C C G G A G C C G A A A G$ GACAACCAAAAGGAAAGGGAAAAAGAGAGAAAAAAAAGEGGA $A T T A A G A G G G G A A G G A A G G G G G G A A G G G A G G A A A G A A G A A G G$ A A A CA $A \operatorname{G} G \mathrm{G} G A A G A G A G A C G G G G G A G C A G A A G G G G A A A A A G G$ GAGAATAAAAAGGAAAAACAAGGAGAGAAGGAAAAGGAAAAA A G G A T A G G A A G G A C C C G G G C C A A A A A G G G G G G G A A G G G A G G A

 G G GAAGGCCGAGGGAAGAACCGAGGGGAAACAAACGAAAAAA A A GAAATGGTTAACAGAAAAGAAAAGGAAGGGGGGGGCATTA A A A G A A A G G G G G G G G G G C C G G G G G G A A A A G G A A G G G G G G G G A AAAAACCAAGGGGAAAACCAAGGAGAGAGAACAGAAGGGGGC C GACCAAAACAAGACAAGGAAACGGAGAAAAGGAACCAGCAG ACAAAGGGCGAAGGAAAGGGGAGAAGGGGAGAGGAGGAAGAC AAAGGGGGGAAACGAGGAGAAAACCAGCACAGGAAAAGCGAA A G G G G C C A GA G G G A G G G C A GAG GAAAGGGAAGGAAAAGAAA G AAAGGGGACAAGGGAGGGGCCCCCCAAAAAAAAAAGG
G GCC G G G G G GCCAAAGAGCCGGGAGGCAACGAACCCCCCCG GAAGGAAAAGAAGAAAACCGGGGGGAAAAAAGAGGCAAAGAA GAGGAATAAAAAGGAAGGAGAAAGAAGAGGGAAAAGACAAAA
 ACAGGGGAAAAGGGGGAGAATAGAGCCAGGGAAACAAGCCAA GAACCACAAAAAAAACCAAGAAGGGAAGGGGGGCAAGAAAAG G G G A A C A A A A A G A A G G G G A A G G G G A A G G A C C G A A G A T G G G G A GAAGAAGGAGAGGGGGCGAAGGCGGGGAAAAAAGGGAAAAGA AAAGGAAGGCCAAAGAGGGGAGAAACCAGAAGAGGAAACCCG G G GAGAAAACCAGCGGGAGAAGAAAAAAACCAAGGGGAAACA GAGGAGAAGGAGGAAAAAAAAGAAAAAGGGAGGGGGGGAAAA A A A A A A A G GCCCC G C G G G G GAGGGAAAGAAGGGAAA GAA GA G G GAAGGGGAAAAAAACAAGAGGGGAAGGGGAAGGGGAAGAAAG A ACAAAGGGCCTTGGGGCCCCGAAGGCGAGGGGAAGGAGAAG G G GCGGGCCGGAGGGAGATAAGGAGGGGAGAGCCGAAGAAAA GAGGGAGGAACAGGGGGGGAAGAGGGGGGAAGGAAGGGAGAA GAGGGAAAACCGGGGAGAAGGAAGGGGGGAAGAAAAGAACAG A G GCCTTCGAGAGAAAGAAGGGGAAAGAGAAGGAAGAAAAAA AAAAAGAGAGAGGAAAACGGAGGGGGGAAGGAAAAGGGGAAG G GAGGAAAAGGAGGGAAGGCAAGCCGGAAGGGGGGAAAAAGG G G G A A G G C C A G G G GAGCGAAAAAGAGAAAAAGGAAGGGAAAA ATTAAGGGGGAACAAAGAGGGGGAGAAGAGGAGGGAACAAAA A G G A A A A G GA GCCA A G G A A A A A ACCAACC GAGAAG GAA G CA T TAGAAAAGGCCAACCGGGGGGAAAAGGGAAGGAAAAGAAAAA

A A A G G G G G G G G A A A GAA A GAAGGAGGGGGCAGGAACAGGCCA A G G A A A G C A A G A A G A A GAGGGAAGGAAAAAGAAA GAA GA AAAA A A GA $\operatorname{A} A A \operatorname{A} A A C G G G A A A T T G G A G A A G G G G A A G G A A A A G G G G G$ GAA A G G G G GAA $A \operatorname{GGG} \mathrm{G} C \mathrm{C} A A A A G G G G A A G G G G A A G G A A C C G G G$ G G G A A A A A A G G G G G G G G G G C C G G G G A G G G G A C C C C C C A A G G G G G A A C C C A A A G G A A G GCCAAGAGACCCCAAAAAAAAAAG GA
 A GAGAAAAAAGAAGAGAAAAGAAAGAGGAGGGGAAAAAAAAA G G G G GAAAAGGAAACCAAGAAGGAAAAAACCACAAACGBAAG AAGAAGGGGGAAGAGGGAAGGCCAGCCGGGGGGAAAAGGGGA GAGGGGGCCAAAGCAACGGGAGGGAAAAACCCCGGCCAGAAG
 A A A A A G G A A A A C CAAAA $A \operatorname{A} A A A C C G G G G G G T T G G A A G G G G G G C$ CAA $A \operatorname{GAAAA} A \mathrm{~A}$ G G A A A A G GAAGGGGAAGGAAAAGGGAAAAAA AAAGGGGAAGGAAAAAAAAAAGGAAAAAAAAAAAAAAGAAAG AA $\operatorname{A} A A G G A A A G C A A G G G C A A A C A G A T A A A A A A A A G A A G G G G G$ C G G G G G G A A C C G A A A A A A A GA G G GATTTXAAAAGGGAGGAC CA $A A G C C G G G G G A A G A G G G G A G G A G A G A G G G C A G G A A A A C C G G G$ GACTTAAAAAAGGGAGGAAGGAAAACAGGCCAAGGGAAAAAA
 AGGGAAAAAGGCCAAGGGAGGGGGGAAGGCCACGGAAGGACG GAAAAAAGAAGGGGGGGCACCGGAAGGAACCAGGGAAGAGGG GAAAAGGGAGAAGGCACGGGGAACCAAAAAACCCCGGAACCT
 G G GCCAAAAGGAAAAGGGGGGAAGGCCGGGGGGAAGGGAAAA A A A G G G G G GAA $A \operatorname{GA} A \operatorname{A} A A A C C G G A C A A G G A A G G G G G G G A T T A$ ACCGGAAAACCGGGAGGGGAAGGGGAAGGCCAAAGAAGAAAA A A A A A A A A A T T G G A G G G GAAGCCGGAAAGAAAGA G GAAACGAA A G A A A G G G GAC $\mathrm{A} G \mathrm{G}$ GAAGGGGGGGACCAGAAGAAGAAGAGAAG G G GAAGGGGACAGAAAGGAAAAGGGGGAAGGGAAAAAGAAAA $A C C G A A G G A A A A G G A G A A G C A A G G A A A A A G G G A A A A A A A A A G$ AGGGGAAAACACCGAACGGAAGAAGGAAGAGGAAGAAAAG GA G G GAGAACCGGGAGGAAGAAGACGGGGAACCAGAGAGGAACB A A G G G G G G G G G A G A G G G A A A G A A $\mathcal{A} A G G A G G G A A A G A A G G C C C$ $A C C A G A A G A G G A G A G G G A A G A A A G G G G G G G A G A A A G G A G A G G$
 $C G G C C G G G A G G A G A C A A A T G A G A A C A A G G G A G G G A G G G G C C G$ GAGAAAGGGGGCCAAGGAAAGAGGGAAGGGAGGAAAAAAAGA CACAGAGAAGGGAAGAGGAAAAAGGCCGGAAGAGAAACBGGA
 G G G G G G G C C G G A A G G GAG GAGG GAAAG GACCGGAA G G G G GA G A GAGCCGGAAGGGGGAAAGGATGGAAAAACGGGGAGAGAGAAA ACCGGGGCCACAAACAAAAAAAGGGAACCGGGGGGAGGAAAA CTACAGAACACAAAGAACGAACAAACCGGAAGGAGAAGAAAC CAAAAAAAGCACCAGGAAGAAGGGAAAGGGAAACCCCGAAAG G G GCCAAACAAGGACGAAAGGGAGAGAAGGAAACCAGCAAAG $A C C G G G G G G G G C A A A C A G A A C A G G G A A G G A A A G A A A G G G C G G$ GAAACAACAGAGGAAGAAGAAAAAAGGAAGGAAAAGGGGCCG GCACCAAGGAAGGAGGGGAGGGAGGAGAGAAACGACCAGAAG A G GAAAGGAAAGGAACCAAAAGGGAAAGGAGAAAAGAGACAG A A GAA A G G G G G A A A GAACGAGGGAGGAAAAGGAAAAAGAACAA G G GCCAAAGAAGGGGGGGGCAAGGAAGAGGAAAAAAAAAAAA A A A A C A G G A C A G G G A G A G G G A G G A A C C G G A A G G G G A G A A A A G G GAAGGGAACGAGAAAAAAAGGAACCAAGGGGCAAAAAGGC CAAAAGGCCACGGAGGAGAGAGACGGGGGGAAAAGGGGAGGG GAAAAGAAAAGGGAAGGAAAAGGAGAGAAAAGAAGGCGACAA G GAG $A \operatorname{G} C A A G A G G G G A G G A A A G A A G G G A A G A A A A G G G G A C G G G$ A A A C A C A G G G A G A A A G G GAAAAA A G G G G G G G G A A G A A A G G C C G GTATTCCGGGACCAGGGGAGAGGAAGGAAATAGGGGGAGGGG

 G GAGAGGGAGGGACCGGAAAAAAAAAAGGAGAGAGAAAAGGG GAGACGGGGCAAAAAGGAAGGAAGGGGGGAGACGAGAAGGAA A G GAGAAGGAGAGAAAGAAGGGAAGGAGGGAGGCAAGAAAAG A A A A A A A G G G G G G G GCCCC C G A A G G GAGGGAAGACACA GA GA A A G G A GAA A G A G G A C A A GAA $A \operatorname{A} G A G G A A A A G G G A G A A A A A G G G$ GAACCGGAGACGGGAGGGGGGGGGGAACCGGCAAAAAGGCCA A G G A G G G A GAGCCCCAGAAAAGAGGCAGAAAGGGACCAAGBC $C \subset C G G C A C C A A A A A A G G A A G G A A A A A A G G G A A G G G G A G G G G A$ A G GAACAAGAAGGCCGGAAAAGGAGGAAGGGGAAAGGGECAA GCCGGAGAGGGGAGCACAAAAAGGGAGAAGGAAGAACGAACB GCCGGATAAAAGACACCGGAAGAGAAAGGAAAGGGCCATGGG G G G G G G A A G A G A G G G A A A GACAAAGCCAGGAAAAATTAAAAA A G G A A G GAAAGAGGAAAAAGAAAAGGAGAAAAAGGAACCCCC CAAGACCGAAAAAGGAAGAGGAAAAAAAAGGGACCAGGAAAA A G G G G GACAAAGAAAAAAAAGAGACCCCAGGCGGGGAAAAAG A G G G G A A A GAGGAACAGAAAACAAGGAGGCCAAA GAAGAAAA $A A C G A G A G G G G G G A A G G G G A A A A G G A A A A A A G G A A G G A A A A G$ A A A G G A A A A A G GAACAAAAAGAAAGCAAAGAGAAGGAGAACA G G G A A A GACAAAGGAGAAGCAGAAAGGGGGGGGCCAGACAGG A A G GAGAGACAAGAAAAAAGAAAGGAAGAGGAAACCCGGGGG $G G A T T G A G G G G C C A G A G A A A A C C G G G G A A A A G G G G G G G G G G G$ G G GCC G G G G A A A A A A A A GA G GAAC G G GAAAAA A A A G GAGGGGA A G G G G A G A A G G G G G G G G A C G G A A A G A C GACAAAAAATAACAC CAAAACACCAAGGAAGGGAAAGAAAGGAGGGAAAGGGAGGGG GACAAGGAGAGGGGGACAAAGGACAGCGAGAAGAGGAGAGCG G G GAGCCCAGGAAGGGGAAAACCGGAAAAAAAAGAGAAAAAC CAGGGGGGGGAAGGAGGGGAGAAGAGGGAGGAGAAAACAAAA A G G G GAGAGCAAAGAGGAAAGGGGAGGGGGAGGAAGAAAGGA A G G A A A A G GAAAA $A \operatorname{A} A A A G G G G A A G G G G A C A G G G A A A A G A A A A$ A G G G G A A G A A A A C G G G G GAGAAGAGAACCAAAAGGGGGGTTG G G GAACCAAAAAACAGGGGCGCAGAAGAAGGCAAGAGAAGAA $A G G A A G G G G C C A A G G G G A A A A T T G G A A G G A A G A A G G A C A G G C$ AAAAAGAGGAAAGGGGGCACCGACAAAGAAGACAAGG
$C \subset G A A G G G A A A A A A C C G G G G G G G G G G A A A A A G G A A A A A A A A$ G G GAGGACCGGAAAGAGAGAGGGAAGGAAGGAAACAGAAGGG AGGAAGGGGAAGGAAAATTAAAAAGAGAAAGAAGGAAAAAGA A A A A A A A A G G G G A G A T TACCCAGAGAGGACCCAGGAAGAGAA A G G G G GACACAGACCAAGGAACAAAGAAAGGAGGAGAAAAA G $A A G C C A G A A A A G G G A G G A A G G G G A A G G G G G G A G G A A A G A A G G$
 A G G G G G G G G G G G G G GCCAAAA A GCCAAAAAAAGGGGGGAAAAA AAACCAAGGGGAAGGACAAGAAAGGCCGGAAAAGAAGBAGAA CAGTAAAGGAAAAAAAACAGGAGAAAGGACACCAGGABAAAC A A A C C C C C CAA A G G GAAAAAA G GAACCAAGGAA GGGGGGGGA A A G A A A A G GAACCAAGGGGCCGGTTGAGAGGGGCCAAGAGGG A G G G G A A A A G G GAA A A A GAAGGGAGAGCCGGAGAAAGGGCCA AAAAGAAGGGGAAAAAAAAAAAAGGAAAAGGGGAAGAAAAAA GAACCAGAAGAGAGGACCCAGGAAGAAGGAAAAAAGGGAAAA
 GAAGAAGAGGACCAAGAAGAGGAGGGGGGCCCAGGGGGAAAA A G G G G G G G G A A A G G G G G A A A A C A A GCC G GAACCAAATGGGGA AAAAAGGAGGGAGAAAGAAAAGAGAAAGAGGCCAGAGAGAGG G G G G G G GAGAGCAACGGAAAAGGGAGGGGAAAAAAGGAAGAG G G G G A A A G G G GCCCAAAAA A A A A A A A G G G G G G G G A GA GA GA G A G GCGGCGGGGGAAGGGAAAAAAAAAGGAGGGAGGAACAAAAA A G GCA $\operatorname{A} A A C A A A A A A G G A A C C A C A G G A A A G G G T T A A A A G B A$ AAAAAGAGAGAAAGACAGAAAGGGGGGAAAGGACAGGBACAC

A GAGAAGGAAGAGGGGAGGGGAAAAGGGGGGAGGAGAACAAA GACAGGGGAGGGGGGAACGCCACGGGGGGGGCCAAAAGAAAA A G GCC $C$ C $A G G \operatorname{GAA} A G G A A G G A T A A G G G G A A C C A A T A G G G G G G G$ G G G G G A A A A A A G G G G G G A A G GA $A \operatorname{GGGG} \operatorname{G} A A A A A A A A A G G G G G G G$ G GAAGACAGAGAGAGAGGGCCAAAACCGGGAGAAAGGGGAGC C G G A A G G A A A A A A A A C CACAGGGGAAGCAGAAAAGAAAAG GA AAAAGGGCCAGAAGAGGAAAGAAACGGAACGAAGAGGAGAGA GAAGGGGGAAGAAGGAAAAGGGGGGAGACGGAACAAGAGGGG G GAGGGGGGAAGGCCAAAGAGCACAAAAACAAGAGAGAAGGG AAAAAGGCCGGGGAGAGGAAACCACGAGGGGAAGGGGACCCA
 C C C A A A C GCCCAA G GAAAA AGAAGGAAAAAAAAAGGAAAGGG G G GCCAAAAGGAAAGGGAACCCCAGGGAACCGGAGGGGAGAA A A C G A A C A G G G A A A A A A A G A G G A A G A G G A A GAAA A A TAA A A G G G GAGGAAGCCGAGGGGCCGGAGAGCCAGGGGGAAGAAAAAG GAGGGAGAAGAGGGGGGAAGGAAGGCCAAGGAGAGAAGAAAA
 A A A A A G G A A A A A A G G G GAA $A \operatorname{GAAAAAAACCGGGAGGGGAGGAA}$ $G G A G A C C G G A G G G A A G G G A A G A G A C G A G A A G A G G A A A A A G G A$ A G G C C G G A A G G A A A C C G G G A A G G A A G G A G A G G C G A G C G A A A A G GAAGGGAAAAGAGGGACCAAGGAGGGGGCCAAGGAACAAAC CAAAAAAAAAAAAAAGGGGGGCCAAGGAAAGGAGGCAAAGGG GAAAAGGAAGGAAGGGGAAGGGGAAAAAAGGAAGGAAGGGGA $A C C A A G G A A A A A A G G G G A A G G A A G G G G G G A A G G A A A A A A A A G$ GAACCGGAAGGGGGGGGAAGGCCGGGGAAAAAAAAGAAAAAA


 AAAGGGCGGGGAAGGAAAAAAAGAAAAACCAAAGGGGAAAAG GAAGGGAGGCCAAGGGGGGAGGAAGGGGAAAGGAGGAAGGGA A GAA $A$ A A $A C A A A A G G A G A G A A G A G G A G A C A C A A G A G A A G T T G$ G G G GACCAAGGGGGAGGCAGAAAGAGGAAGGAACCGGAAAAG
 $A G G A G G G A A G G G A A G G G A G A G G G G A A G A G A A A A A A A G A A G A A$ $A C C G G G G A A A C G G G G G A G G A G A A A G A G A A A A G G A A A A A A A A G$ GAAAAAAAGGAAGGGAAAGAGGGAAAAAACCAAGGATAACCC AACGGGAGGGGGAAAGAAACCAGGGGAACGAGGAGAGAAAAG GAGCCCACCCCAAGAAGGGGGCCCCCCGAGGCGCACAAACAAA A G G A G G A C C G G G G G G G G A G G GACACAGAACCGGAGAAA GACA C A A A A T A A G GACC $\mathcal{C} G \mathrm{G} G \mathrm{G} A A A A A A A A G G G G G G A G A A C A G A G G A C$ A A GAGAAGGAGGACCGGCCTTGGAAGAAAGGGGAAGGGAGAA G G GCC GAGGGGGGAAAAGGAAAAGGGGAAAAAAAAAACCGGG GCAGGAAAAAAGGCCCCAACCAAAAAAAAGGGGGGAAGAAAG G G G G G A A G GCCCCAAGGGGGGAAAAGGAAAAGGAAAAGGGGG GAAAAAAGGCCAAGGGGAAGGGGAAGGCCCCAAAACCAAGBC C G GCC G G A A C C A A G GAA $A \operatorname{GCCCGGAAAAAACCAAAAGGGGCCA}$ AAAGGGGCCGGCCCCCCGGAAAAAAAACCGGAAAACCAAGBC CAAAAAAAATTGGGGGGGGAAGGGGGGGGGGAAGGAACAAAA A G G G G A A A A C C A A G G G G G G G G G GCCAAAACCAA G GAAAAGGG
 A A A G G G G G G G G G G A A G G A A A A C C A A G GAAAA A C CAAAA G G G G G $G C C C C C C A A A A G G G G G G G G C C A A G G G G A A C C A A A A A A G A A A G$ G G G G G G G A A A A $\mathcal{A} G G G G G G G G G G G C C A A G G A A A A A A G G G G C C G$ G G G A A G G A A A A G G A A G G A A G G G G G G G G C C G GAAAA A G G GAA $A$ GAAGGGGAAAAGGGGGGAAGGAAGGCCCCGGAAGGAAAAGAA A G G A A G G G GAA $A \operatorname{G} G C \operatorname{CG} G A A G G A A A A G G A A A A A A G G G G G G G G G$ GAAGGAAGGCCGGGGAAGGCCGGAAAGAAAAAACCGGCAGAA GCAATAAAAAGCCGGGGAAAAAACCGGGGAGAGGAGAAACCB AAGAAAACCAAAACCAGGGGAAACCGAAAAGAAGGAAGGGGA

A G G G G A A A A G G G G A A GAGGAGAGGGGAGAAAGGTTGGAAAAG A G GCCGGGGAAAAGGAAGGCAGCAAAAGGAACCAAGGAAGEC CACAACCAGAGAAGAGAAGCAAAAAGGATCCGACCCCGAAGG GAGCCCCAGAAAGGACCAGCAAAGGGAGGGAGGGAGGGAGAA

 A A C G G A A G G G G G G G G A G G G G A G G A A A G A A A A G G C C G G G G A G A AAAAAGGAAGGAAAAAGCCAGAGGGAGGGGAGAACACAAGGA ACCGGCAAGAAAGGAGGGACAGACAAAAAGGGGAAGAAAAAG G GAAGGGAAGGCCGGAAGGAAAAGGCCAAGAAGACAAAGGGA

 GAACCGAGGAGAGGAGGAAGGAAAAAAAAAAGGAGGGGGGGG G G G G G A C C A A A C C G A C A A GAAA A A GAAAAAAGGGGGAAA G G A A G G G GCCGAAGGGCCGGACCCAAACAGACGGACGAAAGAGGA G GAA A A GAAGGAAGGACAAGAACGGGGGGAGACAATTGGGAA
 C C CA $\operatorname{C} C \subset A A A A G G G C G G G A G G G G G G A A A A C A G G G G G A A G A G A$ A G G G A G G G G A A GAA A A G A A A A C C A A A A G G G G G G G A A A G G G G A A A A G G G G A A $\mathcal{A} A G A G G G G G G G G G A A G A A A G A G A A A A A G G A A G A$ GAGCAGCAGGGCCAACCAAGGGGTTAAGGAAAAAAGGAAGGG GAAGGGAGGACAGACAAAGGGAGGGAGAGCAAAGGGGAAAAA AGGCACCGGAAAAAGAAAAGGAAGAGCGGAAGGAGGAGAAAG G G A A A A A A A G G A A A A A A GAA $A$ G A A A G GAGGGTTCGGGAACAA A GAGGCCAAAAAAAAAAAAGGAAAAAAAAGGCCGBAACAGGC CAAAAAAAAAAGGGGAAAAGGAACCAGAACCAGAAGGAAGGT TAAA A A A A A A A G GAACCAGGGGGGGAACAGAAGGAGGGAGGA A G G G G G G A GAGACTAAAATAAAAAAGGCAAGGAAGGACAAGA $A C C A A G A A G T T C A G A A G A A G G A A A A A A G G A A G A C C G G A G A G G$ A GAGGGGAAGAAAGAGAAAGGGGCAGGAGGAGGGGGAAAGAC A G G A G C C A A A A A G G A A A G G G G G G A A G G T T G G G G G G A A G G A G G GAGGAACCCAGACAGGAAGGAAGGAAAGGGGAGACAGGAAAG G GAAAGGACCAAGCCGAAAAAGGGGAAGAACAGGAGAGACAG A A A G G G A G G A A G A G G G G A A G A A G G G A G G G G A A A G G A G G G A A G

G G GACGCCGGAAAGGAGGGGAGGGGGAGAGAAAAGGAAAAG GCAAGCCAGGGGGAGCCGGGGCAAGGGAGCCAGGAGAGAAAC GAACACAGATTGAAAAAAAGGGGGGAGGAGGACAAAAGGGGA
 GAAGGAAGGGGAAAACCCAGAAAGAAAGGAGGGGGAAAAAAA AA $A G G G G G G A C A A A A G G A G G G A G G A A G A G A A G G G G G G G A A A C$ A G GCCAAGGAGGGCCGGAAAACCGAAAAGAAAAGGAABAAAG GAGGGGGACGGAACCGAGAAACCAAAAGACACCGGAAGAAAA G G GCAA ATTGGAGAGGAAGCCAGAAAAGACCAAGGAGAAAGA GACGAGGCAAGGGAAGAAAAGGAGGAAGGAAAAGGAACCGGA A G G G A A A A A CACC GACCAGAAGAAAAAAGAAGAGAGAAGGGA A A A G G A A G G GCGGGACCAAGGAAGGGGACGAAAAGGGAAAAG GAAAA A A $A \operatorname{A} \operatorname{A} A A A A G G G G G A G G G G G G G G G G G A A G A A G A A A A A G$
 G GAGGAAAAAGAAGGAAAGAGGGCAAAGGAAAGAAAAAAAAG G G G A A G G G A G G A A G G A G G G G G G A G A G G A G G CAAA A A G A G G G G A G G G G GACCGAAGGGAAGGGGGGCAGGACAGAAGGGGAAGAG GAACCGGAGAACCGGAAGACGAAAAAACAGAGGAGAAGAGAA A G G G GAAAAGCGGAAGGAAGGGGAAGGCCAGAGAGAGGGCCA G G G G G A G A G G G G G G G G G A A A GAGAAAACAACCCAAAGGAGGG G G G A A A A G G G A A A A GAGCCAGGAAAGA GAGAGGAA G G G G G G G A A GAGGACAGGGGGGGGAGAAAGAGGGACCGAGGGACCAAGGA CAC G G A A A G A A A G A A G G A G A G A G A A A G G G A G G G A G A G A A G G A A G G GACCGGAAAAGGGAGGTTAAGGGAAGAACCGGGGAAAAG

G G GAGGGAAAGGAAAAAAAGGAGAGGGGGAAAGACGAAAGAA $A G G G A A A G G G G G C C A A A G G G A G G G A A G C A A A G A A G A G A G A G G$ G G G A A A GA $A \operatorname{GGGGG} G A A A C A A G G G G G C C G G G G A A A A G A C A A C A$ AAAGAGGCCACGGAAAGATAACCGGCAAGAGAGAAAAGGCCA AAGCCGGAAAAGGGGCCAAAAGGAAGGGGAAGAAAGAGGAAA GAGGAGGCCAAGAGGAGAGGAAGGGAGAAACAGAAAAAAGAA GAGTAGAGAGGGGGGGAGGGGCCAAGGAAAAGAGGACAAACA TGCGGAACCACCCAGGGGGAAGGAAGGGGAAGAAGAGAGCCC C G G G G A A G G G A A G G G A A G G G A A A A A CAAAACAAAA G GAA TA A GCAAAGGAAAGAGAGGGGAAGCAAAAAAGGAAGAAGGAGGAA A G G G GAACAAAGGGAAAAACCCGAAAAAAAGAAAAGGCCGGG GAACCAGGGGAAAGGGGAGGGGGGGGGAAAGAGGAAAAAGGG A A A G A G G A ACCCCGGGCAGATGAGGAAAAGAACAGAAAAGAA
 GAAAAGGAACCAAACGGACGAGGGAAGAAGGGGAAGGTXAGC CAAGGGAGGCCTTCCGGCCAAGGGGGGGGGAAGGAGGGGGGA A G G A A A A G G GCCA G GAAAAAAAAGAGGGGGAAAAAA G G GAGAA G GCAGGGAAAAAGGCCAAGAAGGGGGAAAAAACCGAAACAABC CAAAGAAGACCAAAAGGAAAAAACCCCAAGGAGAGGAGAAGA G G G G G A C G GAA $A \operatorname{GGG} \operatorname{GAAAAGGAAGGGGGAAACCGAGAAAAAC}$ AAAAGAGAAAAGGAGAACCAGGGAGCCAAGGAAGAGAAGCCC GCCAGGGAGCCGGAAAGGAACGGAAGGAAGACCACAAAGGCA ACAAAAAAAGAGGAAAAGAGGAACCGGAGAGAAAAAGGAAAC C G G G G A G G G GACCCCAAGGAACCAAAAAAAAAA AAACGGGGG GAAGGGGAAAAGGCCAAGGGGAAACAGCCAAAACAGGGAGAA GAAGGGAAGAAGGGGGGCGGAAACAAATTGCGAGAACGAAGG A A GACAAAAAAGGAAGGAGGGGGGGCCGGGGAAGAAGACAAA A A GCCGGGGCAAGAAAACAAAGAAAGGAGAAGGAAATAGGAA $A C C A A T T G G A A A C G A A A G G G G G A G A G G G G A A G G C A G G G A A G G$ G GAAGAAAGAAAACCGGGGAAAAGGAAGAGGAAGGGAACAGA C A A G A G A G G C A A G G G G G A A G G A A A A G G A G C C A A G G G G C C A A A AAAAAGGAGGGGGAGCCAACAGACACCGGGAGGAAAAGGGAA
 C GAGAGAGAAAGGGGGGAACCAGAAAAAAGGAAGGAACAACB A GAGAGAAGAAGGGGAAGAAACCAAAGCGGAGAGGACAAGAA GAGCGCCAGGCGCACGAACAGCCGGGGGGGGAACCCCAAGGA ACCAAAAGGAACCGGGGAACAGAGAAGAGAGAGAGGACAAAA A GACCAAGAAACAAAAAAAAAAAGAGGGGACGGGGCCCACAAA


 G G G A A A A A A G G A A C CAA $A \operatorname{AGGAGGGGGGCCGAGACCGGGAGAG}$ GAAAAAAAAAAAAAAAAAAGGAACCCCAAGGAAGAAGGACAA A G GAA A G GAGGGGGAAAAGGAGACCCCCCGGACGGCCGAAAG GAAGGGGAAGAGAGAAAAGAGAGGGGGAAAGAGGGAGAAGAG
 GAGGGAGACTTGGGAAGCAAGAAAAGACAGAACGGAAGAGAG AAAAAAGGGAAAGGAAAGGAAGAAAAGCAAAAGGAAAGAGAA CAA A GAGACAAGGGGGGAAAACCGGCCAGGGAGAAAAAAAAC C C C A G G G A G G G GA $\mathrm{A} G \mathrm{G} G \mathrm{G}$ GAGGGAGACGACACAGGGGCABCAA AAAGCCACCGGAAAAAAAGGGAAGAAAGGGGGGCCGAAAAAA G G G A A G G A A G G G GAA A GAAAAAAAGGGGGGGGCCAA GACAGGA A A A G G A A A A A G CAAA A G A A A G A A A A A A A A G G G G G G C C G G G G A G GAGGGATAGAAGAAGGAACCGGGGAAGGGGAAAAAAGAAAG GAGCCGAAAAGCCAGAGAAGAAGAGTAAAGGAAAACCAAAAA A A A A A A G A A A A G GAAA GAAGAAAAAAAAACACAAGAAAAGGA AAAAGGAAGACGAAACCGGAATAAGCCAGGAAGACAAGAGAA A G G G G C C A GAA $A \operatorname{GGGAA} G G G G G G G A A A A G G A G A G C C A A G A A G C$ CAAAACCAAAAAACCCAAGAGAAAACAAAGGAACCCCGGGGG

G G G GAGGAAGGGGAAGGAACCGGAAAGATGAGGCCGGGAAAC CAA GAAAGGAAAAGGAAGGAGAAGAGACCAAAACCGGCACCC GAACCGGGAACGGTTTTGGTTCCAGAAGGAAACCCAAGACAC A GGCCAAAAAGAAAAGGCCGAAAGAGGAGACCAAAGAAAGGG G G GAGAAAGAACAGGGGGGAAGGAGAGAACCCGAGGAAAAAA GAAGAAAACCCAAAGGAGGAAGGGACCAAAAAGAAACGGGGG A A A G G GA G G G G A A A G G A A A CACAAAGGAGAAGAGAG GAAA GA GAGGGAAAAGGGGAACACCACAGAAGAACAACCCCGAAAAGAG
 A A A A A A A A GAGGGGGGGAAGGGAAGCAAAGGAAGGAAAAAGA $G C \subset A G C C G G A A A C A A A A A A G G C A G G G G A G C C A A G A G G A C A A A$
 G G G G G A A G G A G A A G G G G A A GAGGGGGGCCAGACAAAAAAAAA ACCGAAAAAAAAACCAAACAGAAGAGAAAGGGGAAAAGAAAA GAA $A \operatorname{A} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A \mathrm{~A} A A G A C C A A T T A G A A G G G G G G G G A G A G G G A$ GAGGGGAAGAGAAGGGGGAGGGAAAGGAAAAAGGGGAAAAAA A A G GACCAACCGGAGAAAGGAGGGGGGCGGAAGGGGAAACAA GATGAAGCCGGGAGGAAGGGGAAAAGACAGGAGGGGCGAAGG GAAAAAACCCCAGAAGGGGAAGAAGGGGGAGGACCGGGAAAG GAAAAAGGGAGGGGAGGGGGGAGGGAGGGAAGGGAACCAAAG GGGCCCCAGGGGAGAACAGACGGGAAGCCGGGAGGAAGGGGG GAAAAGGAAAAGGGGGGGGAACCGGGGAAGAAAAGAGAAAGG G G G A A G A A A GAGGGAAAAAAAAAAAGGAGGGAAAAAAAAA GA G G G G G A C G A A A A G G G A A G A GAAA A G G G GACCGGAAA GACAA G G G G A A A A A A A A C C G GAA $A \operatorname{AGGGGGGGCCGAAACCGGAAAAAAG}$ A G G G G A G A A G G G A A A G G G G G G A A A A G G A A G G G G G A A A G A G G C C T TA T GAAAAGAAGAAGAAAGGGAAGGGGGGGGGGGACAAAA G G G A A G G A C GCGACCGACGCCAGAGGGAAAGAAGGGAACAGAG ACAAAGAGGAAGGAGCAACAGAAGGGGAGGGGAGGAAAGAAA GAAAAACGGAAAAGGAAGGAAAACACAAGAGAGCAAGGGGGG G G GAGCCAAAAGAAAAAAAGGAAAGGAAGAAAAGGACAGAGG AAAGAGAAAAAGAGGAAGGAAGGGAGGCCGGGGAAGACAAAG G G G GACCAAAGAGGGCCAGAAACAAAAGAGGAAGAAAGGGAA A A A G A A A G A A G G G A G G A G G C G A G G G A G GAAGGGAGAAAAAAC A A G G A A A A A C A G G A GAA AGAAAAA A A A ACCCCACAAGG
GGCCGGAGCACAAGGACAAAGAGAGGAAGGAGAAGGAAAAC GAAAGCAAGACAGGGGGAAAAGGGGGGCCAAAAAGGAAAAAA A A GCAGGCCAGGGGGGGGGGGCGGAAAACAAAAGGAAAAAAG A G G G A G A C C G G A G A A A GCCAACAGAAGGAACGGAAAAGGGGT T G G A A A A A A G G G G G G G G C C A A A A A $\mathcal{A} G G G A G G G G A A A A G G C C C$ C G GCAAGGGGACCAAGGGGGGGAGGACAAGGCAGAACGGGGA GAATAAAAAAAGGAGGGCCTAAGGAGGGAAAGGAGAAAAGGG GAAGGGGGACAGGAACCCCGCAGAAGGCCGGGGAAAGGGGGG GAAAAGAGGGGAGAAGGAGAAACAAAAAAAAAAGGGGAAAAA A A C A A A A A A A TAGCCAGAAAGAAGGAAAAAAGGGGGBAACCG GAAGGGGCCGGAAAGAGGAGGCAAGGAGAAAGGAAGAAACAA A A A A A G G G G G G A A G G A A A A G G A A A A G G G G G G G G A A A A A A A A $G$ G G GAACCCCAACCAAAAAAAAGGCCAAGGGGGGCCAAAAAAA A G GAAAAGGAACCGGGGAAAAAAGGGGAAGGGGAACCAGAAA
 GAAAAGGGGGGGAGGAAGCCCAAGACAAAAGAGAAGCAAGAA $G G A C C G A A G A A A G G A G G G A A G A G A G A A A A A A G A A C G A A A A G A$ GAAGGGGAAAAGGGGAGGGACAAGGAGGGCACAAGAAGAGAG C G G G G A GAA A G A A G A G G G G A G G A A A A GCCGAGGGAAAGAAAA CAAAAAAAAGGAAGGCCCAAGAAGGAGAAAAAAAAGGGCGGA C G G A A C C C C A A CAA $A \operatorname{GGGGGAAAAGGGGAAGGTTGGAAGAAAG}$ G G G G G A G A A A A A A G GAAAGACCCGGAGGGGGGGAGAAAAAAC C A A A A G A G G G G A A G G A A A A G G G G G G GAA A G GAGAA G GAAAAA GAAGGAGGGCAGGGGGGAAGGGGAAAAGGAAGGAAGGGGGGG

G GGCCAAGGAAAACCAAGGAAAAGGGGAAAAAAAAGGGGCCA A A ACCGGAAAAAAAAAAAAAAGGAAGGGGGGCCCCGGGAAAA A G G G G G G A A G G A A A A G G G G G G G G G GAAAAACCC CAA G GAAAAA AGGAAGGAAAACCCCGGAAAAAAGGAAGGGGCCGGAAGGGGG GAAGGAACCAAAAGGAAAAAAAAGGAAAAAAGGCCGGCCCCA A G GAACCGGAAGGGGAAAAAAGGGGCCCCAAAAGGGGGGTTC CAACCGGCCGGAAAAGGAAAAGGCCAAAAAAGGCCAACCGGC C C C G G G G C C G G G GAA $\operatorname{C} G G G G G G C C G G G G G G A A A A G G A A G A A A G$ G G A A G G G A G A G G G C C A A G G A G A G G G G G G G A A G A GAAC G G T T A AAGGGAAAAAAGGGGCCGGAGACGGGGAGAAAGAAAACCCAG G G GAAAGCCAAGGAGAAGGGGAAGGCACCAGAAAAGGCAGAAA GACGGAAGGGGAAGGGGGGGGGGGGAAGGAAGGGGGAAACAC CA $A \operatorname{GGAA} G \mathrm{G} G \mathrm{G} G \mathrm{G} G C \subset C A A G A A C C G G G G A A A A A G A A A G A G A G A$ $A C C A G A A G G A G G G G A G G A G G G A A G G A G G G A A G G C C G G G A A G B$ $G C C A G A G G A A G G G G G G G A C A G A A A A G G G G C C A G A G A G G A A G G$ A A A G A A A A A G G G G G G GAGGGGAAGGGGAAGGAGAAAA GAAAA A A G GAGGCCCCCCGGGGACGAGGGGAAGGGGGAGGGAAAGGG GAAACGACCACGAGGAAGGGGCAGGGAGGAGGGGGAAGAGAG GGGAAGGCCAAGAAAAAAAGGGGAAAAAAAGGGGGGBCAAAAG G G G G A A A G G A A G G A A G G A A G G G G A A G G A A A G A G G G C A A A G G A $A G G A A G G A A G A G G G G G G G G A G C C G G G G G G G G A A A G G G A G G G G$

 C C C G G A G G G A G A G A C G G C C A G A A A G G A G A T T G G G G G G A G G G G A GAGGGAGACCGGGGCCGAGAAGGAGACCAAAAGGAGGACGA AAAAAGGCCAGAGAGACGGAAAAGGGGCAAGGAGGGGCAAAA A G GAGGGACGAGGCGGGAGGAGAGACCGGGGAAAGGAAAGAA A GAA A A G G A G GACAACAGGAGCCGGGGGAATGAGAACAAGGG A GAGGACAGCCGAGGAAAACCGGGGGGGAGGAAAAGGGAGAG GCCAAGACCAAAGAGAGGAGAGAAAAGAAAAAAAAGGCCCCC C GACCAAAGCAAGGAGAGAGGGGGGCCACCCGAAGAAAGGAA G GAGGGGAAAGCAAAGGGGGGACGAAGGAAGCCGGAACCGGG G A G G A G G G G G G G G G GCC $C$ G G G G G G A C C C A G G A A G G A G G G C C G G G G A A C A A G G G G G A G G G G G A A G G A G A A A G C C G G A A A G A C G G A $G C C G A A A A A G G A G A A A A C A C C A G A G A G G A A C A A C A G G G A G G G$ G A A A A A GA A A GAA G GC C GAGGAGAGAGGGAAGAAGCCGAG G G G G G GAGGGAAGGGGAGGGAAGACTAGGGGCCAAGGAAGAAAG GAAAAAAAGAAAAAAAAAAACGGCCGGAGGAAAAAAAAAAGB GAAGGAATAAAAAAAGGGGAAGGAGGAAAGGAAAGGGACAAA A A G G G G G G GAGAAAACCAAGGCCGGAAGGGAAGACAA GAGAG $A C A G A G G G A G G G A G G A A G A A G C A A G A A A G A G G A G A G G G A A G G$
 AA $A G G A A A A G G C A A G A G G G G A G A G G G G G G G G G G A A G G G G G G G$ GAAAGGGAAGGGGGGAGGGGGACAAACAAGGGAGGGGAACAG A G G A A A A G A G A GAGGAAAGAAAGAGGAAAAGAAGAAAGAAGAC A A A G G A A G G A G G GCCGGGGGGCAAAAAGACAAAAAAA GAAAAA CAAAA A A $A$ A A G G A A A A A GAGGGAGGAAAGGGAA GAAA A A A G GAC CAGAAAACAGGAGAGGGGGGAGAAGAGAAGGAGAGAACAAAC CAAGAGAAGAGCAAGAGAAGGGGAAAAGGGGAACAAGAACAA G G GAAA A A GCAGGGGAAGAAGGAGAGGCCAAAAAAGGAGAGA G G G G G C A G G G A GAA $A \operatorname{GGGAAAAAGGAGGAGGGAGAGACCAGGG}$ AA $A$ A $\operatorname{G} G A G G A C A G G G A A A A G G A A G A G A A G A A A G C C A A G A A A G$ GAGAAGGAAAGAGCCGGAAGGAGGAGAAAAAAAAAGAAACCG AGGGAACAGGAACAGACAGACAAAAAGCAGAGAAAAAAGGGG $A C C G A A G G G C A A A C A A C A G A G A C G G A A A A A A G G A A G G A A A A G$ GAAGGGGGGCCGGGGGGGGGGAAACAGAAGGGGCCCCCAAGG GAAACGGAGAAAGAAAAAAGGAAGAAACCGGCAAGGAAGAAA GAAAAGGAGGGAAGGAAGGGGAAGGAAGGCCCAGGGGAAAAC C GAAGGAGGAAGGAAAAGGAAAAAAGGGGAAAAAAAACAAAA

A A A A A A A G G G G T T G G G G G A A G A A A A A A G GAAAAA A CA GACCC C CACAGGAGAGGACCGGGGGGGGAAAAAAAAAAAAAAAAGGA GAGAGAAAGGGAGGAAGAAAGAAACGGAGGGAGGAAGAAGAA G GAAAGGGGGGGGGGGGAAAAAAAAAAAAAAGGGAGAGGGGA A G G GA G GACAAAAAAGGCCGGAAAAAGGGGACAAAACGGGGA A GAAAAAGGGAGGGGGGAAAGAAGGGGAGGGAGGAGGGGGGG GAAAAAAAAGGAAAACCGAAGAGGGAAAGGAACAACCAAGBG G G G G GAACAGGAGCCAGAGGAGAGGGAGAAGGGGAAGCAAAG GAACCGGGGGGGGACAGCAAAAAGGAAAACCGGAACCCAAAA $A C C A A G G G G A G G G G A G G T T G G G A A G A G G G G A G A A G G A G A G G G$
 GAGGAAAGGGGGGAAGGAAGAAGAGAAAGAAAGGAAAAAGGG G GACCCCCCGAACAGGGGAAAGGAGCCAAATAGAGAAGAGAA $A C A G A G A A G G G A G A A C C A G G A A G A G A A G G G G G G G G G G A G G G C$ CAAAAGGCCAAGGGAAAGGAAGAAAGGAACCAAGGAAAAGGA AAAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAAAG

 A G G G GCCCCGGGGAAGGAAAAAACCGGCCAAAAGGAAGGGGG G G G G GCCCCGGCCGGAAGGAAAAAAAAGGAAGGAAGACAAAG GAAGGAAAAAAAAGGAAAAAAGGGGGGAAGGAAGGAAAAAAA A A A A A A A C C G G G G G G G G G G G G T T A A A A A A A A G GAA $A$ G G G G G A A A A G G A A G G G G G G A A A A G G A A G G A A A A G GAA $A \operatorname{ACC} C A A G G G G G$ GAAAAGGGGGGCCGGGGCCAAAAGGAAGGCCCCGGGGAAAAA A G GCCGGAAAAGGAAAAGGGGAAGGAAAAAAAAAAGGAGAA G GAAAAGGAAGGGGAAGGGGAAAAAAGGGGGGGGGGCAAAAAG G G GAA $A \operatorname{GGG} A A G G A A G G G G A A G G G G A A A A C C A A G G A A A A A A A$
 GAAGGAACCCCGGAAGGGGGGAAGGAAGGGGGGAAGAAAGAA AAAGGAAGGGGAAAACCGGGGCCAAAAGGCCCCAACCAAAAA A G G A A G G A A A A A A G GAAGGCCAACCAAGGAAGGAAAAGGGGA AAACCCCGGCCGGAAAACCCCAAGGCCGGAAAAAAAAAAAAA A G G G G A A C C G G G G G GAA $A \operatorname{GAAACCGGAAAACCAAGGAAGACAA}$ A G G G G G GAAAAGGAACCGGGGAACCAAAATTAAGGGAAAAAA A G G G GCCGGGGAAGGAAGGCCGGGGAAGGAAAAAAAA
A A A A A A G GAA $A \operatorname{AGC} C A A A A G G C C G G G G A A G G A A A A G G G G G G G$ GGGCCGGCCAAAAGGGGCCCCAAAAAAGGGGGGGGAACAAAG
 G G GAAAAGGGGGGAAGGGGCCAAAACCGGCCGGGGGGAAGAA $A G G G G G G A A T T G G G G A A A A G G G G A A G G G G G G G G G G A A A A A A A$ AAAGGCCGGAAGGAAAAGGTTGGAAGGCCGGCCGGAAGGGGG GAAAACCAAAAAAAAAAAAAAGGGGAAGGGGGGGGAAGGGGG GAAAAGGGGAAGGGGGGAAAAGGGGAAAAAAAAAGACBAGBA A G GAA A A GAAGGGGGGGAAGGAGAAAAGGGGGAGACAAAGAA A G GAAAAACGGGAGAAGAGAAAAGGCAGAGAGAACAAAGAAG
 G G A A A A T G GAG GAAAAATXAGGGGGGGAGGGGGAAAA GAAAA GTTCCAGGAGAGGAACCAGAACCGGGGGGAAAAGGAGGGCCA GCCGGGAAGAAGGAAAGAAAAGGCCGGAAGGAAAAAAGGACAA G GACCCCGGAAAAAAAAAGGAAGGAGGAGGAGAAAGAAGATG GAAGGACGAGGGGAGGGCCAGGAGAAAAAAATTAAGGAAGAA
 A C C G G A G A G A A C C G G G G G G G G A G G G G G A G C A G G A G G G G G A A T TCGGAAAGAGACCAAGGGGGGGGGGAAAACCACAGAGGGGGG $A A C A A G G A A G G A A A A G G C C A G A A G G G G G A G G G G C C G A G G C C G$ GCCCCGGGGGGAAAAAGAAGACCGAGGAAGGAGGGBAAGCCG GAAAACAGAGGAGCAAACCAACCTTCCGAAAGAGAAGCAAAG GAACGAGGGGGAAAAAACCGGGGAAAAAAACAAGAAGGAAAA $C A G G G A A G G G G G G A C G G C C C C A A A A A C G G A A A G A C A A A A G G G$

GAAGGGGGGAAAAAATACCAAAATTAAGGGGAAAAAAGAACA A G G A A GAAAAGCCACAAGGCCCAAAGGAAGGAAGGAACACAA
 GAAGGAAAAAAGGGGGGAAGGGGAAAAGGAAAAGGAACCGGT TAAAAAACCGGGGGGAAGGAAGGCCAAAAAAAAAAAAAAAAA A A A A A A A A ATTAAAAGGAAAAAAGGGGAAGGGGAAAAAAGGG G G G A A G G G GAAAAGGGGGGAAAAAACCAAGGAAAAAAAAGAA A G G G GAA $\operatorname{G} G C \subset A A A A G G G G C C G G A A A A A A C C G G G G G G G G C C C$ C A A A A G G G G G GCCAA C C G A A G G A A A A A A A A G G C C G G A A G G G G A AAAAAGGCCAAGGAAAAAAAACCCCGGGGGGCCAAGGGGCCG GAA $A \operatorname{GAA} \operatorname{A} G A A \operatorname{A} G A A A A G G C C G G A A A A A A A A G G G G G G G G G G A$ ACCGGGGAACCGGGGAAAAGGAAAAGGAAAACCGGCCAAGGG G G G G G A A C C G G G G G G G G C C G G G G A A G GAA A GAA A GAAAAC C $\mathcal{A}$ GAATTCCGGAAGGGGAAAAAAGGCCGGGGGGGGAAAACAGGA A A A G G A A A A G G G G G G G G A A A A A A A A A A A A C C C CAA G GAAAAA A G G G G G GAACCGGGGAAAAGGAAGGGGAAGGCCCCGAAAGGG GAAAAAAGAGGCAAGAAAACCGGGGAGAGAGAGGGAAAAAAG G G G G G A G C A A G G G A GAA $A \operatorname{GA} A G G A A A G G G A A A A C C A A G G A G G$ A GAAAAACCGGAAGGAGGGACGGAGGAGAAGGAGGGGGGGGG A A A G A G G A G A A A G G G G G A A A A G G G A G A C C A A G G G G G A A A A G G AAGGGGAGGGAGGGAAAGGAGGAGGAAGGACAAAAGAAAAGG A G GAAACGGAGCCGGGAGAGAGAAAAAAAACAAACGGCAAAG G G G A A G G G G A A G G G G G G C C G G A C G A CAGGAAGAAAAAGAAA $A$ A A A A A C C A G G G A T G G A G G A A G G C G G G G G G G G A A A A G G A A A A A G G G A A A A A GACGGAAGGGGGGAACCGGCCGGGGAAAAAAAGA A A A A G A A A GAA A A A GCCGGGGGGCCAAGGAAGGCCAAGAAGG
 ACAGGAGAGGGAAGGGCAGGGAACGGACCCCAAAACAGAGGG GACGGGAAGCAGGAGACAGCCGGGGGGGAGAGAAGAGGAAAG G G GAAGGAAGAAGGGAGGGACACAGGGAAGGAACCAAAAAAA ACAGGCCGGATGAACAGAAGAACACAACCGGAAGGAACCGBA A G GAGGAGAGGGGCCGGGGGAGAGGGAAAAGGGACAGAAAGG GAGAAAAAGGGAAGGGAGGACAGAAGGAAAAGGGGAAGACCG GAAA $A \subset C A A G G A A A A G A A G A A A G G A A A G G G A G G A G G G G G G G A$ GAAGGGGAAAAGGAGGAGAAAGGAGAAAAGGAAGGGGGAGAG G GAGACCAGAAGGAAGGCCCCAAAAGAGGCCAAAAAAAACGC CAAAAGAAAAAGAGGACGAGGCCGGAAAAAAGGCCAAGACAA CAGAGAGAAGGAAGGGGGGAAGGCCCCGGGGGGGGGGGAGGA G G G A A G G A A A GCC G A A A A A CAGAAAAGGGGGAGCAAACAAAA
 GAAGGGAAAGAGACACAGGGGGGACGGACGGAAAAGAAAGGA GAAAAAGGGGGGGGAAGGGAAGGGGGAAAAGGGAAAAAGGAA G G GAA $\operatorname{A} G A A C C A A C \subset A G A A G A G A A C G G A A A A A A G G G G G G A C G$
 C G G A A A C A A GAGGGGAAGGGGGGGAAAACCCCACC GAGAAC G GAGAAAAAAAACCAAGGAAGGAAAAGGGGAACCBAAGGGGGA
 CAGAGGGAGGAACAGGGGAAAAACAAAAAAAAAGAAGGAAAA A A A A A A ACAAACCGGCACAGGGGAAGGAAGGAAGAAGCAAAAA C G G GAGGAAAAAACCAAAACAGAAAAAGGAAACBAAAAAGGG G G G G G A A A G A G A C G G A G A G A G G G G GAGGGGGGGGGCAAAAA G G G G A A C C G G G G G G G A G GAA A A G G C CAGTTAAAA A A G G G CA A A G G A A A G G GCCAACCGGCAAGAGCAAGAAAAAGGGGGGAAAA GC C G A A A A C A GCCAA G GACAAGGAAGGGAAAAGAACCAGGAGAG G G G G G G G C A G GAAACCCGGGGCCAAGGGGGGGGCCGAAAGAA A G G G A A A G GACAA G GA GAC GAAGGGGGAAACGGGGGAGAAAG A A A A A GA G GAAGGAACCAGAGGGGGCCCCAGGGAAAAGAGAA A GAGGAGGAAAGGAAAAGGAAAAAAAAGGAAGGGGCCAAAAAA AAAGGGGCCAACCAGAACGAAGGGAGGGGGGAAGGGGGGGGA

GAAGGGGCCGGAGAGAAAAAAAAGGGGGGAACCBAATGGGGC CAAAAGGAGGAAGACGGAAGGGAAACCAACCAGGAGGCCGGG GAAAAAAAACCCAAAAAAAAGGGCCAGGAGGCCCCCACCGGG A GAAAGGAACCAGAAAGGGGGAAAAGGAAGGAACCAGAGGGA AAAGAAAGGGGGGAAAAAAGACCCCAGGAGAGGACAGAAAAC C G G A A T T A A A A A C G G G G G G A A G G A A G GAAGGCCGGG GAATAC AAAGGGGGGAAGGGGGAACAGTACCAAAAAGGAAAAAGAAGG G G G G GAGGAAAGAGGCCAGAGCCCCGGGAGGAAGGAAAAGGA
 G G GACAGGGAAGGAAGGAAGAGGAAGGAGAGAAGCGAAGGGA
 A A A C A G G G A A G A A G G G G A A C C A A G G G G G G C C C C C C G G A A A A A
 GAACCACCCAGGAGAAAACGGGAAAGAGGGAGGGGAGAAGAG G G GAA $A \operatorname{GACA} A C C A G A A G G G G A G G A G A G A A G C A A A G A C C A G A$ $C G G A A A G A A G G A G G G C C A G G G A A A A C A A G A A A G A G A G A A A G C$ C GAAA $A \operatorname{A} A A A G G G G G A A G G G A A A A A G G A A G G A A C C G A A A A G G$ A ACGAAGAGTAAAGGAAAGCCGGAAGAAGACAGACAGGAAGA GAAGGGGAAAACCGGGGGGGGAGAGAGGAGAGAGATTAACCB G A A G G A A G G A A G G C C G G A A G G G G A G G A A A G A G G G A A A G G C C A ACAAAAGAGAGGGAGAAAGAGGGACAACCGAGGGGGGACAGA A A GAGAAGGAGAAAGAAAGCCGGGGGGGGCCGAGGAAAAAAG A G G A C A G G A A G A C G GAAAAAAAAAAAGGGAAAGGAAGGGAAAA $A C C G G C A G A A G A A C A G G G G C A G G A G A A A A G G G G G A A A G G G G A$ A A G A A A A G G A G G G G G G G A A A A A G G G G G A A A A G G A A G G G A G G A A A A G G G G G G G A G G A G G G G A G G A A G A GAGGAGAGGGA GA GACA AAGAAGGAAACCCGAAGCCGGAGAAGGAAGGAAAAAAGGTTA GAAGGAAGGGGCCAGGGGGCCAGGAAAGGCAAAGGAAGAAAG GAAAAAACCCCGGGGGGAGAAAACCCAAAGGGAGGAAAGAGA G GAGGGGGAGAAGCCAGAAAAAAACACAAGGAAACAGCAAGC A A G G A A G G A G A G G A A C A G A G G A G G G G G A C G A A G G A A G A A G G G G G GAGAGGACCGGAAAAGGAGAGACAGAACCAGAGAAAGGGA GACGGGGGGGGGGAAGGAGAGAGGAAAAAGAAGGGGGCACAA A A G G G GATTAGAAAAAAAAAGAGCCAAAAAAAAAAGGAGAAG G G A C A A A A G G G G G A G A A A A G G C A G G A A G A A A G G G G A A
AGCCAAAGAGGAAGCCAAGAAAGGAAAGAAAACCCCAACCG AGCAAACAAGGGGAAAAAACCGGGGGGAAAAAAGAGAGGAGC A A G GAA A A A GACCGGGGAACCAAGGAACAGGAAAAGACCBAA GCCGAGGAAGGCCGACCCAGGGAGGGAGAGAAAAAGAAAAAA A G G A A A A A A C A GAA A A G GAAGAAAAGGGGACCAA GAA GAAAA A A A A A TACAGGGACCAGGAAAGGCCGGAAACAAAGGAAAGGA A G G A G G A G G A A G G G A G G G A G A A G G A A A A A GACC G G A A A A G A $G$ G GAAGACAAGAGAAGGAGAAAGGAAAAGAAGGGAGAAGAAAA A A A G G G G A A G G A A G G G G G A GAGGGAAAAAAAGGAGGAGGCCC A G G G G G G G GAGGAGGAAAGGGACGAGAAGGAAACCAACAGGC A A A G G A A G G G G G G G GAGCAAAAAAGGGCAGAAAGGAACAAAA GAAGGGGAGAAAAGGAGGGGGAAAAAAAAAACCGAGAACAGAA

 A A G G G GAAAAGAGAGCACCGGGGAGGGAGAAGGCCGGAAGAG
 A G GAAAACCAACCCCAAGGGGGGAAAAGGGGAAAAGGGAAAAG A A A G G A A A G G G A G G A G G A A A G G A A G G A G A A C A A C C G G G G A A A ACCGGAAAAGGAAAAGGGGAAAAGGAAGGAAAACCAAAAGGG G G G A A G G G G G G G G G G A A C C A A G G G G G G G G G G G G G G A A A A G G G G G G A A A A A A C CAAAAGGGGGGCCAAGGAAAAAAGGAAAAAAC C A C C C G G G G G G G G G G G G A A G G C A G G A G G G C C G G G G A G G G G A G A G G A G A G G G A G G G G A G A G A A G A G A A C C G G A A G G A A A A A A G G G G G G G A A GAGGGGGGGAAAACCCCAAGGAGGGGACCAAACGGG

G G G GACCCCAAAAAAGGAACCGGAAAAGGGGGGAAAAGGGGG $G C C A A G G G G G G A A C C G G A A A A C C A A G G C C A A A A C C G G G G T T G$ G G GAAAACCGGGGCCACGGAAAAAGCCAAGAAAAAACGGGGG GAGAAAAGAAAGGGGGGGGAAGAGAAAACGAAAAAAGGAGGG GAAGAAGACGAAAGGAAAGAGAGGGGAACAGAACC GAAGAGA G G GAAA A A C GAGGGGAGAGAAGGAAAACCGGGGGGGGGAAAA A A GAACCACGGGGAAGCAGGGGGAGAAGAACGACCGGAAAAG A GAGACAACAGCCCCGGAGAAGGGGGGCCGGCCAAAAGGGGA CAACCGAAAAGGAGACCGGGGACAAAAGAACAGGAAACAABA AACGGGGGAAAAGGGAAGGGGAAGGAAAGGAAAGGAGGAGGA A G GAAAAGGAAGGGGAAATAGGGGGGAAAAAAGGAAGAAGAG G G G A A GAGAAGACAAAGACGAAGAACCAACCAGAGAGAAGAG $A \subset A G G G G G A A A G G G G G G G G A A A A G G A G A A G G A A A A G A G G C C A$ A GAAAGAAGAGACAGAGAAAAGGATAGCCGGGACCBAAGGGA GAGAGGAGAGGGGGGAAAGAGGAGGGACAGGAAGAAGAGACG AA GAAGGGGAAAGCACCAAAAAGCCAAGGGGACAGACAAGGC C GAGGACGGCCAAAAACGAGGCACAGGAGGAAGGGAAGAGGG GCCTTGGAAGGAAAAAAGGAAAAGGCCAAGGAAAACAAAAAG $G G A C C G G G G A A A A A A A A G G G A A A A A G A A G G A A G G G G G C A A G A$ GAACAAAAGAAAAGGACGGGGAACCAAGGAAAGAAAAGAGAA AGGGAACGCGCAGAAACCCGGAGGGAAGGGGAGGGGAAAAAG $A C C A G A G G G A A A A G G A C A G A A C C G G G A G G A A G G G G G A A A A A G$ G G G A A G G A A G G GAA $A \operatorname{A} A G A C A G A A A A A G G A G A A A A A A A A A G G G$ G G G A A G G G G G A GAC CAA $A \operatorname{AGAA} G G G G G A G G G G A G G G A C A A G A A$ C CAG G GAA $A \operatorname{G} G \mathrm{G} A A C A A G A G A A G A A G G G G A G G A A A A C C B G A A G$ AAAAGCAAAAAGAGGCCGGGAGGAGGGGAAGAAAAAGTAAAG GAGAGAAGGGGAACCAAGGGGGGGGAAAAGGAGGGGGGGGGG
 A A G G A G G G G G G G G C C A A GAGAGGAAAGAGGACAGA GAGGGGC C G G A A A A A A G G A A A A G G G G G GAGCCAAGGAAGGAACCGAAGA $A C C A A G G A A C C G A G G G G G G G G C A A G G G G G G G G G G G A A A A A A A$ AAGGGAAGGCCGGAAAAGAGGGAGAAGGAGGGGGGAGACAAA A A GAGAAAAAAAAGGAAGGAGGAAAACGAGAAGAAGAGACAC A G G G G G G G GAACCCCGGCCAAAAAGGAGAAGCCGGACAGAGG G G G G G G G A C A G A G A A G G A G A A G G A A A A A GAGGGAAAAAAAAA A G A G G G G G G G G G G G G A A $\mathcal{G} G G G A A A G A G G A A G A A A G G A A A G A G$ GAGGACAGACAAAAGAAGGGGAAGGAAAGGGCCAAGGGGAGG G G GAAA ACCAGGGAAGAGGGAAGCCGGGAGGGAGGGAGAAGA G G A A A GAAA A GAGAGGAGGGGGAAATACCCCGGGAAAGAABA GAGGAGGGGGGGGAAGACCCCACAAAAAAGAAAGGACAACCG $A G A A A G G A A G G G G G G C C G A G G G G A C G G G G G G G G G G A A G A A G A$ GAAAGCCCCGAAAATAGAAGGCAAAAAAAAGGGAAAAAAAAA A A A A A G G G GCAGGGGCCCCGGAACCGGAACACAAGAAGAAAG GAAAAGGAGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGC CAAGGAAAAAGCCAGAAGAAGCCAAGGAGAGAAAAAAGAAGA A G A A G G G C C G G A A $\mathcal{A} G G G G G G G G G G G G A G G C C G A A G G G C C G G G$ G G G A A A G A A A GCA G GCCGGAAAAAAAAGGAAGGGGACCCCCC C GAAGCCCCCCAAAAAAGGAAAAAAAAAAGGGGAAAAGGGGG GCCGGAAAGACAAAAGGAAGGAAGGGAGGAAAACCAGAAGGA C TAA A A A G G GAAAGGCCGACAGAGAAAAAGGAAAAAAGGGGG $G C A A A A A A A C C G G G G C C G G G A A A A A A A G G G G G G G G A G G A A A A$
 A A G G G G A G A C A A G A G G G G G A A G A G G G G A G A A A A G A A A C C A A A $A C C G G G G A A A A G G A A G A G A G G G G A A G G A A A A A A G G A A A A A G G$ G G G G G T TACAGCAGGAAAAAAACCCGAAGGGGGGGAGCACAC C G G A A G A A C G A A C C A A G G G A A GAA GTTACAAAGAAAGCAGA G GAAAAAACCGGGGAGCCGGAGGAAACCGGGGAGAGAGGAAGA A A A A C A G A C A G GAGGGGCCAAGGAAGGAAACGGAACAGAAAA G G GAAGCGGCAAGGGGAAGGCACGAGGGAAACAGAAGGAGGA

A A A G G A GAA $A \operatorname{A} A \mathrm{~A} G A \mathrm{~A} G \mathrm{G} A A A G G A A A G G G A A C C A A A A G G G G A$ A G G A A A A G A A G G G G G T T G G C C G G G G G G A A A A A A G G G G G G C $C$ A A G GCA A G A A A A GAGGAGGACAAGCAAGGGAAAAAGAGGAAAC C G G GAGAGGAAGAGGAAAGGGGGGGGAAAATAAGGGAACAAA A G GAAAAAAAAGGTAACAAGAGAGGAAGGGGAAAACCGGGGA CAGAGGGATAAAAAAGGAGCCAAACAAAGCAAAAAGBACAAG A A T G A G G G GAATTGACCGGACAAAAGGGGGGAGGGAGAAAAG AAAGGAGGGAGCAAAAAAAAAGGAAAACAAGAAGGGGAGAAA A G G C C G G G G C C G G G G A A A A G G G G A A C C G G A A G G G G A A A G A A C $C G G A A A A A G G A G A A G G G G G A A A G A C G G A G A G A G A G G A G G A A A$ A GAAA A $A \operatorname{G} G A A C C G G G A G G G G C C G G A A A C G G G G A A G A A A G G A$ A G G A A G G G GAA $A \operatorname{A} \operatorname{A} A A A A A A G G G G G G G G G G G G G G A A A A G A A A G$ GAAAAGGCCAAAAAAAAGGGGAAGGCCAAAAAACCAAAAGGG
 A G G G GCCAAAACCGGGGAAGGGGGGCCAAAAAAGGGGGBAAA A G GAAAAGGGGGGGGAACCAAAACCAAGGGGAAGGAAAAAAC C GAAAGAACAGAAGAAGGGCCGGGGAAAGGAGGGGAGAAAAG GAGGGGAGCGGGAGGGGGGGGAAGGAAAGACAAGAGAACAAG G GAGGGAGACCGGAAAAAGAAAAAGAGAAGGAAGGAGAAAGAG G G G G G C A G A G G A A G A A G A A A CAC GAGGAAGAGAAA GAAAAGG GAACCGGAACCAAAAGGAAACCCGAGAAAGAGGAGAAAAAAG GAA A G A A A A A G GAGAGGGGGAGGGAGGAAGAAGAAAAACAAA AGGCCGAAAGGGGAAAAAAGAAGGGAAGAGAGGCCAAGACCA $A C C G G A A A C A A G A A G G A G G G A G G A G A G C C G G G G G A G G G G G G C$ C G G GAAC $A \operatorname{AGG} G A G A G A A A G G A A G G A A G G G A A A C A G C C G A A G G$ G G G G G A A G A G A G G G G G G G G G GC C G G G G C C G G A A G G G G A A G G G GAAGGAAGGGGAAAAAAAAGGGGGGGGGGAACCAAGGAAAGA C G GAA $\operatorname{A}$ GAAAGAAGAAGAAGAGACAAAGACCGGAAAGACGGG GCCGGCCAAAGGGGGAGAGAAAGAGGAGGAAGGACAGAGAAA GAGAAGGAGAAAAGAGAAAAACCAGCCAGCCAAAAGGCCGGA CA $A \operatorname{G} A A A A A A G G G G G G G A A G G A A G G G G G G G A G A G A A A A G A A G A$ G GACAGAGGGGAACCAAAGTAAGGGGGAGGAGGAGAGGGGAG GAGGGAAAAAAGGGAGACCAAGGAAAAAAGGAAAGAAAAAAG G G G G G G G A A G G G G G GA $\mathcal{A} G G A A A A A A A A G A G G A G G G G G G A G A A$ CAAGGAAAAGGAGGGGGACAAAAAAACGGACAGAGAG
AAAGAGGAAACAGAAAAAGAGGGAGGGGACGAAAAAGAGGA $A C A C C G A G G G G A A G G C C G A C A G G A A A A A A A A G G G A A A G G G G A$ A G GAA A GCCGGAAAGAAGGAGAGGGGGGGGACAGAAGAAAGA A A A G G A $\mathcal{A} G G G G G G A G A A A G G A G G G G G G A A A A A G G G A A G A A G C$ AAAAAGGAGACCCACAAGGAAAGGGAAGGCCAGAAAGAAAAA GAAGACCGGAGGAACAAGGGGGGAGCAACGAGGGGGAAAACA G G G G G A G G A A G A A $\mathcal{A} G A A G G G G G G G G A G G G G G G A A G G A A G G G A$ $A C C G G G A G G A G C C A G G A A A G G G G C C G G A G G G A A G G T T G G G G A$ GAAGGGAGGGGAACCGGAAAAGGAGGAGAAGAAAAAGAAAAG GAGGACCAAGCAAAAGGGGAGGGACGGGGCCCCGGAAGAAAG $G \subset A G G G G A A G G G G G A A G A T G A G G A G G G A A A G G G G A G G G G G G T$ TAAGGGACCGGGGAAGGGGAGAGGAAGAGAAGAGGGGGGAGA GACGGGAGGAAAGAAGGGGAGAAAAGGAAACCCGAGGAGAGA A G GACAGGGGGGGGGCCAGACAGAGGAAAAAGGAAAAGGGGG AACGGAACAAAGGAAGGACAACCGGGGAAAAGGGGAAAAAAG
 GAAAAGACAGGGAAGAGGGGGGGAAAAGGGGGGGGGAAAAAA G G GA $\operatorname{ACA} \mathrm{C}$ G GAAGGCCGAGAAGAGGGAAAAACGGGGAAAGGGG GAGGGAAGGAAAAAAAAAAGGGGAAAAACAAGGAAGAAAAAA
 G G GAACCGGAAAGGGGGAAAAGGGGGGGGGGAGAGAGGAGAG A A A A A A A A A G G G GAGAGGGAAGGAGAGGACCAGAGAAAACAG A A A G G A A G G G G G A G G A A G G G G A G G A G G G G A G G G G G A A G A A G G GAGCAAGAGGGAGGGGAGAGAGGGGGGGGACCCGGCCAAGGG

G G GAA A GCAGGAACCGGAAAAGGAAGGGGACGGCAGAGAAGG GAAGGCCGGACGGAGAAGGGGGGAAGGAAAAAAAGGCBAATC CA GAAA $A$ A A A A A A A A A A G GAA G GAATTAAAAGGGGAGAGAAC C T T C C A G GAA A A G GAGGGGGGAAGACCAAAAAACAG GAGAA G G G GAACAGAGGCCGGAGGACCGGAAAGAGGGAAAAGAAAGAA G G GAAAGGAGGCACAGGAAAAGGAAAGAGAGAAGAAACCCCA AACACAAAGGGGGGGCAAGAAGCAGAAGAAGAACAAGGAGBA GAAGAAAGAGGAGGGGGAGAGAGAAGGACGGAAGGGGGAAGA A A A A G G A C C C C A G A A A G A A G G A G G G C A A C A A G G G G A C C A C C G AACAAAAGGAAGACACAGAAGGGGGAAAAAAGGGAAGAGACG GACAGGAGGTTAAAAAGGGGGAGAAGCGGAAGGAGAGAAGAA
 GAAAAGGCAAAAGGAGAGGAAAAGGGGGGCCGGGAGAAACCG $G C C A A A A A A G A A C C C A G G A A A A C G A A A G G A A A A G A A C G A G A G$ G G G G G G G G G G G G G G G A A A A G G G A GAGGC CAAACCCAAGGGGG G G G G G A A A A A A GAG G G GAAAAA AAAAGAAGAGAAA G GAGGGA G G G G GAGGCCAACCAAGGAAGGGGAAGGAAGAAAAAGAAAAAA A G G GAGGGAGGAAAAGGAACCAAAACGGAAGGGCAAGAGGBA $A C C G G G G A A A C G A A A C A G G C C G G A A G A A A A A G G G G G G G A A A G$ GAAGAGAGAAGACAAGGAAGGAAGGAGCCGGGGAAGGBAAGB G G GAA $A \operatorname{GA} A A G G G G A G G G G G G A A A A A G A G A A G G A A G G G A G G G$ G G GAAAAGACAAGGGGGAAGGAAGGAAGAACAGAGAAAAGGG G G GCCAAAAAAAAGGAAAGAAGGGAGGCCGGAAGAAACGGGC A A G G A G GAA $A \operatorname{GCC} C A C C A C G A G A G G G G G G A A G A G G A G A A A G G$ GCACCGGCAAGGGGGAAAAAAGGAAAAGGAAGGCCGGAGGAG GA $\operatorname{G} A A \operatorname{A} G A A A A G G G A G A G A G G A G A G G G G G G G A G A T G A A G C C A$ CAGCCGAGAAGCCAAGAGGGGGGGAGGAAAAAAAAGGGAGGA
 GAGAGAGACGAGGACGGAACAGGAAAGGACAAAGGAAGAGGA A G GAA A GAGCCGAAAAGGGGGAAGGAGAAAGACGGACGCGGG G G G G G G G G G G G A G G A G A G G A G A A G G A A G G A G C G A A G G A A G G C AGGGGAAGGAAGAAGAAAGGATTCAAAAAAGGGGGAGGGAGA G G A A G A A G GAAAC $A$ A A G GAGGAGGAAAAGGAGCAAAATACGAG G G GAACCAAACAAAGGAAAAGGGCCGAGACCGGGGCCCAAGB G A A A G A A G G G G A A G G A GAC $\mathcal{A} G G G G G G G A A A A A A A A C A A G C A A$ A G G G G A G A G G A A G G G G G G G G G A A A A A A A A G G C C A A G G C C A A G G G G A A G G A A G G G G G G TACCCCAAGGGGAAGGGGCCCCCCCCA A A GAACAGGAA GGACAAAAAAGGAGTTGGGGAAGGAGGACAA CAGCCAGGAACAGCACGAGGGGGAGGGAAGGGAGGGBAGAGB GAACCCCAGAACAAGAGAGGGAACCCAGGAAGGGAGGCAGAG AAGAGCCGGAAGAAACCGACCGACCAGGGAACCAAGGCAAAA

 A A G G G A A A A G G G G G GCCAAAAAGGAAGAAAAGGGGAAGGGGGG G G A A A G G G GAGGGAGAAAAGAGAAAAAGGGGGGGGAAAAAAC
 A A A A A G G G GAACAAAGGAGGGCCACGAGGGGAAAAAAGAAAA A G GAGGGGAAACAGGAAAAAAAAGGCAGAAAGGGAGGAAAAG AAAACGAGGAGCAGGAGCCGAAAAGGAAGCAAAAACCAAGGG G A A A C A G G A G G G G G G G G A G G G G G G G A A A A $\mathcal{A} G C X A A G G G G G G A$ A A A $\mathcal{A} G G G A A A A G G G G G G G G G G G A A C G G G A A A G A G A G G A T G A A$ AAAGGAGGGACACGGCAAAAAAGAAAAGAGGAAGGAAAAAAG
 $G C C C A C C G G G G A G G G C G A A G G A A C C A G A G G G A A A C A A G A C C G$ A G GAAAAAAAAGGGAACAAAAGGGAAACGAAAAGGAAGACAA A G G A C G G G G G G A G A A G A A G C A A G G GAGGGGAGGAAAAAAGAA
 C C C A G G A A A G G G A A A G G G A CACAAACC G G G G C C G G G A G G G G G AGGGAAGGGGAAGGGAGCCACGAAGGGGAAAGAAGAGAAAGA

CAGGGGAGAACGGGGCCGAGGACGACCAAGGGGGGGGGAAAA $A G G A G A A G A G A A G G A C A G A A C G G G G A A A G G G A A A A A G G G G G G$ $G G G A G A A C C G G A G A G A A A A G G A G A G G G G A A G G G G G A A G A A A A$ G GAGAGAAGGGGAGAAAAAGGAAAAGGGGGGGGAAAAGEGGA A G G A A A GAGGGAGAGGGGGGGAAGAGATAAGACGGAGAAAAA A A G A A GAGGGGGGAAAGGGCCGGGGAAGAACGGAGAAGAGGC CAAAAGGAAGGAAGGAAAAGGGGAAGGAAAAGAGAAGAAAAG G G GAA $\operatorname{G} G A A C C G G A G C A G A A G G A A A G G A G G G A A A G A A G G G G G$ GACAAAAGGAGAAACGAGACCGGAAAGCAAGGAGAGGGGCCA A GAAGAGGAGAGGAACACCAGGAGGGAGGGGGGAGGGCAGAA GCCGAGGGGGGGGAAGGAAGGGAAAGGGGGGAA $\operatorname{G} \boldsymbol{A} A A A A G G G G A$ CA GACAAAAAGGAAGAAGGGACACCAACGGAAGGGGCGACAA GAAAGAGAGTTAGAACCAACCACGGAGAAAAAGAGGAGGGGA GAGGAGAACAGAGGAAGGGGACCGAAGAAGGAAGGGGGGAAA
 A G G G G G GCCGGGGGGAAGGGGAAGGGGAACAGAAGAGAAGAA TACAAAGGGACGAGGCCGGGGAAGGAGAAGGAGAAAAAAGAG A A A G G A A A A G G A A G G G CAAAGGACAGGAGGGTTGAAACAAAA GAAGGGGGGGGGGGAAGAGGGGAAAAAGACCGGGGACGAAGA A A A A C A A A G G A A A A A G G A A A A G G A A A C G G ACGGAACA GAA G G G GAGAGAGAAAGGGGAAGGAAAAAAAAGAGGGGAGGGGGGGG GAACGGGAAGGCAAAATAAAAAAGGGACCGCAGGAGACAAAA A G G G G G G G GA G G GAACCAAAAGAGCCAGGGAGAAGGGCAA GA A GAA A GACCGGAAGGAAGGGGAGGGGGAGAAAAAGAGGAAGA A A A A A G G A A A A A A C CAA A A GAGGGAGGCCAAAGCAACAATTG G G G G G A A A A A A GAGGCCGGGGACGAGAAAGAAGAGAAAAAAG
 A A A G G A G G G G A GAGAAAAAGGAGAGAAGGGGAAACAC GAAAA $A$ G G G G A C A G G A G G G A A A A A G G G G G A G G G A A A G C C A G G A G A G G C A G G G G G G A GAAAATTAAGGAGGGGGTTGGCCAAAAAAAAAAA A G A A G G G G A A A G A A A G A G A C C A A A A G G A A A A G G G G G G A A G G G A G GCA $\operatorname{CA} A \mathrm{~A} G \mathrm{GA} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A C A A A G G A G A A G G G A G G G A G A G G G A$ A G GA $\operatorname{A}$ GAAAAGAAGACCGGGGGAGGGGAGCAGAAAGGGAAAG G G G A A A A G GAA A A G A GAAGACAGGGGAAGGAAACAAAGACCA A G G A A C C A A A A G G A C G G G G GGCCCCAAAAGGCCAAGG
$A A C C A A G G G G A A G G A A A A G G C C G G G G A A G G C C A A G G G G G G C$ $C G G G G G G C C G G A A G G G G A A G G A A G G G G G G G G G G A A G G C A A A A$
 A G A A A A C G A A A A G G GAGAAGGAAGGAAGGAAGGCCCAAACAG GA GA GA GAC GAAGAAGAAAAACAAAGGGGAAAGCACACAABA GAAGGAAAAGAGGCAAAGGGACAAGGAGGAAACAAGAGAAAA A G GAAGGAGACGAGGAAAGAGGGAAAAACAGAGCGAAAAAGA G G GAGAAGGCAGGAGGACCGAAAGGAAGAGAAAAGAGGAGGG G G GAA A A G GAA $A \operatorname{A} G \mathrm{G}$ GAAAGAAGGGAGGAAAGGGAGAAAACCT
 GAAGGGGGGCCGAAAGAGGAAAACCAAGGAGGGAGGGCCGBA A A A G G A A G G G G A A A G A A A A G G G G C CAA A A A A C CA G G G A A A G A GCCAGGGGGCGAGGAGGAAGGGGAGGAGAGAGAGAAGAGAGA A G GAAAGAACCAGGGAAGGAGGAGAAGACAAAACCACAAGAG A A G G G A GAGAAGGGGAAAAAGAAAAAAGGGAGGAACAAAACA A G GAAAGGAAGAGGGACCCAAAAGAGGGGAAGAAAACAACAG
 GAACCGGAAAGGAAAGGGGGGAGGGAGGGGGAAGGGGA$G A X A G$
 G GAG $A \operatorname{GGA} A G G G G A A G G A A A A G A A G G G G A G G G A A A A G G A A G G$ ACAAAGGGGGAGACCACGGGAAACACCAAAAAGAGAAAAAAG
 A G GAA A GCCAAAAAACCGGACGGGAGGGACCGAAGAAAGABC AGGAAAACCAAAACCGGAAGAAGGACCAGCCAAAAGGGAAAA

GACGGGAGGCAGGGAACGACCGAAGAAGAAGAGGGAAAAGGT T G GAACCAAAGAAAAAAAGAAAAAAGGAAAGGAAACCAAGGA A G GAA A G G G G G GAGGGACAGAACAAAAAAGAAGAGGGAGGAA AAA A A GAAAGACAGAAGCCAAGAAGGAGAGAACGGAAGGGGG $G C \subset A G G G A A A A A A A T G G A G C C A A A G G G C A A A A A C C G G C A G G G$ A A GCAGAAAGAGAAGCAAACAGAGAAGGGGGAGACAGAGATT TAAAAAAGGCCGGCAAAAGGGAATTGAACAGGAGGAGAGAGC A GAGAGGTAAGAAACAAGGAAGAGGACGGGGGAGAGGGGGGG G G G G A G G G A A A G A G G C G T A G G A A A A A G GA G GA G A A G G G A G G G G GAAAGACCAGGAGAGGGGCCGGGGGAGGAGAAAAGAAAAGA A G G G GCCCCGGAAGGAAAGAACCAGAAGAAAACGCGAAAAAG GAAGAAACAAAAAAAAAGAGAGAAAGAAGGGGGGGAAAAAGAG GAACCGGAAGGAAAAAAGGAAAACCAAGGGGAAGGGAAGAAA A A A G G A A G GAAAGGGAAGGAACCGGAAAACCGAGGGGGAAAA A G G G G A A A A G G A A G G G G A A G G G A G GA $\operatorname{A} A A A A G G G C G A G A A A G$ AAAGAGGGAAGAACCGGGGGGGGAAAAGAAGGAGGAAAAGGG
 CAACCGGGGACGGGGAAGAGGGGGGCCAAAAGGGAGAGAAGA AACAC GACAAGGAGGACGGGGAAGGGGGGGGGGCCAAGAGAA GAAGGCAGAAGGAGAGGAGACCCAAAAAGGGAGGGAAACAAA AAAGGAAAAGGGGAAGGAAGAGAGGCCGGAAAAAAAAGAGAA ACAGAAGGGAGAAAAGGACGGGGAAAGGGGGAAGGGGCAGAA AAAGGAAAAGGAGGAAGAGACCACAGGCCAAGGAAAAAAGEG G GAAGGGAAGGAAGAGGCAAAAACCAAAACCTAGGGAAAAAG ACAG G A A G A G G G G G GAAGGGACCAAGGGGGGCCAAAACAAAG GCCGGAGGGAAAAGGAAACAAGGACGAGGAAGGGGAGAAACA GAA A G GAGGAAGGGGGGGGAGCCGGGGGGACAAAAAGAGGGC G G A A A A A A G A A A A A TAAAGGGAAGGCAAATTAAAAAAAACAA A A A A A A A G A A ACC GACCAAAAAGGGGGAAAGAAAAGAAACCG GAGAGAAATGGAAGAGGACGCACAAAGGAAGTACAAAGAAAT TAAACAACCAAAAAAGAAGAGAAGGGGAAAAGGAAAACAAGB GCAGAAGGGAGAAAGAGACAGGGAAGGGGAAGAAAAACAAGC AAAGGGGAAGGGGAGACGGAACCAGGAGAGACCGAAGGAAAA A G G A A A A G G G GCCAAATTAAAAGGGGAAAAAAAACCAAAAAAA A G GAACCAAGACACACCACCCGGCCGGGAAGGATTAAAAGEG GAAGAGGAGGAAAGGAAAAGGCCACGGGGAGAAGGACAAAAG G G G G G A C G GCA G G GAAAAAGCAGGGGGACACGAGGGACCGGG G G GAACCCGGGCCGAGGAGAGGAGAAGGGAGGGGGGGGAGGG GAAAACAAACCAACCGGGGAAGGAAGGTTAAAACAAAGAAGA
 A G G GAGAAGACGGAAAAGGAAGGGAAAGGAAGAAGAGAAAAG $G C C A A G A G G A A G A A G G G A A G G A A G A G G C C C A G G A A A G A A G G G$ G GAAAAAGGGGAAGGGACCAAGGAAAAGGAAGGAAAGGAAAA $A \subset A G A G A A G A G A A C A C C C G G G G G C C A G A G G G A G G A G A C A A A G$ G GAGGGGAAGGACGGGGCACCAAACGGGGAAAAAAAGGAAGAC CAA $A \operatorname{GAA} G G G A C C A A A G T T A A A G G G G A A A G G G A G G C C G G G G A$ GAAAAAAGAGGAACCGGGGCCGGGGGGAAGGAAAAAAGAAAA A G G A A A A A A G G A A A A A A A A A A A A G GAA G G G GAAAAAA A GAAA A G GAACCGGGGCCGGGGCCAAAAGGGGCCAAGGCCAAGGGGA ACCAAGGAAAAGGAAGGAAGGGGAAGGTTCCAAGGAAAACAA A A A A A A A G G G G A A A A A A C CAA G G G GAAAAGGCCGGGGGAAAA A G G G G G G C C A A C C G G G G G G G G G G G G G GAAAAACCC CAA G GAA A G A A G G A A G G G G G G G G A A G G A A G G A A G G G G C C A A G G A A G G G G G
 G G GCCGGGAGAACACAGCAACCAGGGAGGAGCGGAGAAAAGG
 A G GAAAAAAGGGAGAGAGGGGAAAAAGCAAGAGGGCAAAAAC A GAGAGAAAGGAAAAAAAAAAAAGACAGAGGAGAA GGGGGGG GAGGAAGCAAAAGAGCGCAGGCCAAAAGGAAAAGGAAAAAAA

A G G A A G G G GAACCGGAAGGCCGGGGGGCCGGGGGGAAGAAAG GAAGGAAGGAAAAGGAAAACAAAGGAACCAAGGGGCCCCGGA $A C C A A G G C C A A G G C \subset A A C C A A G G G G A A G G A A A A G G A A G G G G G$ GCCAAAAGGGGAAAAAAGGAAGGGGGGAAAAGGCCGAAAAAA AAA A GAAAACCGGGGAAGGGGAAAAGGGGAAAA G GAAACCGBA ACCCCCCTTCCCCCCGGGGGGAAGGAAGGAAGGGGGAAAAAG G G GCC G G A A A A G G G G G GCCAAGGGGGGAAGGCCAAGAAAAAC CAAGGAAGGGGCCAAAAAAAAGGAAAAAAGGAAGGTTAAGGG
 $A C C G G G G A A A A G G G G A A G G G G G G G G G G A A A A A A G G A A A A G A A$
 G G G G G A A G GAAAAGGAAGGGGAAAACCAAGGGGCCAAAAAAG G G G A A G G A A G GCC G GAA A GAAAAAAACCGGGGAAAAGAAACAA AAAGGCCAAAAGGAGGGGGAGAGAGCAAGTTGGAAAAGAAAG A A G G A G A A GAGAACCGGAAGGGAAAGAGGAAAGCCAGAGAAA G G GACAGAGAAAAGGCCAAGGGGAGGAAGTAAAGAAGAAAAA
 AACAAGGGGAACCGGGACAAGAAGGAAGACGAAAGAGGGGGG AAGAACCGGCCAAGGAAAAAAAAGGGGGGGACAAAAAAGGGG
 G G G G GCCGGGGGGGCAGGAGAGAAGGAGGAAAGACAAAGAAG A A TAAAACCACGGGGGGGGAAGGCCAAAAAAAACCAAGGTTA A A A A A A A G G G A A A A GAGAAGAGGAACCGGAGAAAAAAAGA GA G G G G G A T C A C G G G G G G G A A C A G G G G C C G G G G A G A A G G G G G A G G G GCCAAAAGAAGCGAGGGAAGGGGGGAGGGGAAAAAAAAAG GAAAGGGAGAGAAGGGGGGGGAGGAGGAGATACAGGAAAGGG A G G GAGAGGCAAGAGAGGGGGGGCCGGAACCGGAAAAAAGGG A A A A A A A A GACAAAAGGAACCCCGAAATTCCGACCGGGGGAA A A A C A G G G G A A A A A G G G G G G A A A G G G G G G A G C C G A A A G A G G G AAACCGGAAGGGGAAGACCAAAAAGAAAAGAAAAGAGGGGGA A A A A A C CA GAC GAATGAAAGACAGCAAGAAGCGAGGAGAAAA $A C A A A C C G A A C A A G G C C G A A A G A A C G G A A A A C C A A G A G G G G A$ GAACAAACCAAAAAAAAAAGGAGAAAAAAAGAAAGGAAAGBA $A G A G G A G C C C C A A A A A A G G G G G G A A G G G G A A A G A A G G A A A G G$ G G GCC $C$ G G $G$ A A A A A $\mathcal{A} G G G G G A G A A G G G G G G A A C C A A A A$
 GAAGAAAAGAAGAAGGGAAAAGGCCGGGGGAGAGACCABAAG GAAAAAAAAGGGGGGAAAAACAAGGAAAGAATTGAAAGAAAC CACA $\mathrm{C} A \mathrm{~A}$ A A A G GAGAAGAAAGCAGGGGAAGGAAAAAAAAGGA $G C C A A G G G G C C G G G A A A A A A A G G A G A A G G C C A A A A G G A C A G G$ C G G A A A A G GCAAAAAACCAAGAAAAGAGAGGGACCGAGCGGC C CAACCCACGGCAAGACGAGGAGGGGGGAAAACCCAAAAGGG G G GCCAAAAAAGGGGGAGGGGGGAACGAGATAGAGAGCACAG GAGGGAGGAAGCCAGAAGGAGAGGAGGCCGGAGGGAAACACC C G G G A G A G A A A A A A GA GA G A A T TA GAAAA G GAA G GA G G G C C A
 $G C C G G G G C C A G A A A A A G G G A A A A G G A A G A A C A A A G A A G G G G G$ GACAGAGGGGGAGGGGGAGAAGGGAGGAACCGGGGCAAAAGA GCCGGAAAAGGCACAGGAAGAGAGGGCGGGGAAGGGAGAAAG GAAGAGGGGAGAAGGAAAGCCCCGGCCAAGGAGGGCCGGGGC C G GCCGAACGAGAGAGGCGAAAGAAAGAAGGGAAGGGAAAAG G G G GACCGGAGACGGAAGGGGAAGGCCGGGGAAAACCAAAGA CACAAAAAAGGAAAAGGCCGGGGAGAAAACCGGGAAGGAGAG A G GACGGAAAAAAGGGAGGAGACGGGAGAAGAACCGGAGAAG G GAGGGGAAGAGGGGGGAAAAGGAAAGGAGGAACCGGABAAA A A A A A A G G GA G GA G GAACC G G G G C C G G G G A A G G G G G A G A G G G GA $\operatorname{G} A A A A A G \operatorname{A} A G G G G G G G A A A A A A C C G A C C G G G G G G G A A B A G A$ G G G G G G A A A G G G G A A A G A A GA GAAA A G G G CAA A A A A G A G A G G G G G GAACCAAAAGGGGCCGGGGAAGGAAGGGGAAAAAGGGGGA

A G G A A G G G G G A A A G A G G G G CA $\mathcal{A} G G G A A G G G G G G G A A G A A A A$
 A G G G G A A G GAAAAAAGGAAAAGGTTAAGGAAAAAAAAAAGGC $C \subset C G G A A A A A A G G G G G G G G A A G G G G G G G G A A G G A A G G G G G G A$ A G GAAAAAAGGGGAAGGAAAAAAGGCCAAAAGGGGGGAAAAC C A A A A A A G GCC G G A A A A G G A A A A G GAAAAAAAA A G G G G GAA T T G G G G G GAA $A \operatorname{G} A A T T A A C C G G G G A A C C A A A A G G A A G G A A A A A$ AAAGGGGGGGGGGGGGGAACCCCGGGGCCAACCAAAAAAGGG GCCGGCCAACCAACCGGAACCGGCCTTGAAGCCAAGAACABA GAGAAAAAGGGAGGGAAGGGGCCAGCAGGGGGAGAAAGAAAA AAAAAAGGACCGGAAGGAAAGAGGGAGAAAACCGGGGGAGGA A G G G A A G G G G G A A G G G A GA GA G A GACAAC GAAA A GA G GAA G C A GAA A A A A A A A GA $A$ A A G G G G A A A A $\mathcal{A} G G G G G G G A A G G A A A A G G G$ $G G G T T G G A G G G G G A G G A G G A A G G A A A G A G G A G G A A A A G A A A A$ AAAGGAAAAGGCCGGGGAAAAAAGGCCCCGGAAAAAAAAAAG GAAAAAAAAGGGGAAGGAAAAAAAAGGGGGGGGAAAAAAAAA A G G A A C C A A G G G G G G G G A A G G G G A A G G G G A A A A G GAAAAAAA A AAATTGGAACCAACCGGGGAAGGGGAAGGAAGGGGAAAAAAA AAAAAGGGGAAGGGGGGGGCCAAAAAAAAGGAAAAAAAAAAG G G G A A C C A A C C A A G GAA $A \operatorname{GAAAGGCCAAAAGGGGGGAAAAAAG}$ G G GAAGGGGAAAAGGGGGGAAAAGGGGCCGGGGAAAAAAGAA AAAGGAAAACCAAAAGGAAGGAAGGAAGGAAAAGGAACCCCA A G G G G A A A A A A A A A A A A G GAA G GAAAAAAAAAAAAA G GAA G G G G G G A A G G A A G GCCAAAAACCGGAAGGAGGAGGGAGGGGGAGAG G G A C C A A G G A G A A G G A G G G G G G G G G G G A A G GA C A G A G G G G G G A G GAA $A \operatorname{GAAAAAAAAATACAGGCAGAGAGAGACATTAGGAAAA}$ A G G G G A A G GCCAAGAAACAGGCCGGACAGAGCCAACCCAAAA A A A G A G G A A A G G G G A A G G G G A A A G G A GAATTAGACAAAAAAA $G C C G A A A A A G G G G T T G G C C G G A A A A A A A A A A G G G A T T A C A A G$ AAAGGAAGGGAGGAAGGAAGGCCCCAAACAGGGAGCAAAGGA A A A A A G G A A A G G G G A A A A A C C G GCCAGAAAAGAAAG GAAAAA ATTAAAGAGAAAACCAACAGAGGCCGAAGGGGGGGGAGCACA GAA A A A G G A GA $A \operatorname{A} A C G G G G G G G G G G G G G G G G C C G G A A G A G G A$
 A GACCAGCAAGGGGGGGGGGGACAAAGTAAAGGCCAAGAAAA GAAGAAACCGGAAAAAACAGGGGGGGGGGAGGGAGGGCCCCB A G G GAGGCCCCGAAGGGAAAAAAAAAAAGAAAGAAGGGGGGA G GAAAAAGGAAAAAGAAAAAGTTGGGGGAAAAGAGAAGGGGA A G A A G A A G G A G A C A G C C G G A G A A G G A A G G A A G A G A A A A G G G G A G G G G A A C C G G A CAAAACCCCCCGGCCCCGGCCAAGGAAGGG AGACCAGGAGGAAAAAGAGGGAAAGAGAGAAAGAGAACAAGG A G G G G A A A A G G A C A A G A A A G G A A G A A G C A A GAGGGG GA G G A A AAGGGAAGAAGGGAGCCAAGGAGGGGAAGGGGAAAAGAAGGG GAAGGAAAACGAGAGGGGGGGAAGGGGCAGGAAAGAAAAGAA GA $\operatorname{G} A A A \operatorname{A} A C C G A G G G G G G G A G C C G G A G G G C A A A A A C C T X A A G$ G G G A A C C A A G G A A A A G G G G G G A A A G G A A A G G CA G GA G A G C A A
 GAA A G GAAAGGAGGGGAAGGGGAGGGGAGAACCGGAGAAGAG A G GCAGAGAAAAAGGGAGAGAAGGGAGGGAAAGAAAAGGCCA G G G G G G A G G A A A A G G A A G A A GA G G G G G G A C G A C A G G G A G G G G A G G A A G G A GAA $A \operatorname{G} G A A G A G A A G A G G G G G G A A A T A C A A A A G G A$ AAAAGAACGGGAAGGAAAAGGGGAAAAAAGGGAGGAAAAAGG A A G A C G A G G A A G A A A G A GAGGAGCCAAAAGAGGAAAAAAAAC $C G G G G G G G A G G G G C A A A G G A A G G G G C A A G A G G A A A C A A A A G G$ GAGAAAGGGGGAGAGGGAAAGAAAAGAAGAGGAGGAGCAGGG A A G A A G G A A A G GAA $A \operatorname{CA} A A A G G A A G G A A G G C C A G C C B A G G G G A$
 A G G A A A A A A G G A CAAAA A GAAGGGAGAGGGAGACACCATAA G GAAAAAACCGGAAAGGAAAGGACACAGAGGGCAAGAAGCAGA

CAAAAGGAAAAGGGGAGGGGGGGAAAACAAAGAGAAAGGAGA A A A A G G A G A A A A $\mathcal{A} G A G G G G G G G G G A A G G A C C C C G C A C C C C A G$ ACCAAGACCGAGAAGGGCCGGAGCCAAAGAAAGGGGGGAAGA $A T T G G G G G G G G A A G G A G A G A G G G A C A A A A A A G G G A A C A G A G G$ ACCGGAGAAAACCGGAGGAACGGAAGAAGAACCAAAAAAAAA A A A A A A A C C A A A A A GAA $A \operatorname{GGGGGGGGGACCGGGAGGAAAGGBA}$ CAA $A$ A $\operatorname{A} G A T A A G G G G G G A A A A A G A A A A A G G A A G G A G C A A G A G$ A GAAGCAAGAGAAAAGGAGCCAAGACCGAGGCCAAGGGGGGA A G G G G G G A GA G GAA A A G G A A A A G GAGGAAGACCAGGGAAA GA AAAAAGGAAGAGGGGGGGGGGGAAGAAAAGGGGGGAAAGAGC CAACCGGGGCAGGAGAAAAAAGGGGAGAGGGAGAAGGCCGGG G G G G G G A A A G G G A A G G G C A C C G G G G G G A G G G G G G G A C A G C C G
 GAACCAGAGAGAAGAAACAGACAGAGAAAAAAGGGCAGACAG A G GAAAACAAAAGAACCGGGGAAGGGGAGGCGACCGGACGGA GAGAAAGAGGGAAAAGGAGGGAAAACCCCGGAAAAAAAGGGG
 G G G G G A G G G A G A G A A A A GAAAGGCAAGAGCCGGGGAACA GAA AAAAGGAGGAAGGAAAGACAGCCAAAGGAGGCCAAACAAAAA A GACCGGCCCCGGGAGAGGGGGGAAAAGAAGGAGAAGAAAAA AGGGAACCCGGGGGAAAAAAAAAGGGGAAAAGGCCAAGGGGG A G G G A G G A G G A A A C A G G A G GA $\operatorname{A} A A A A A A G G T T A G A A G G G G G G G$ G G G A A G G A G G G G A A G A A G G A A G G A G G G G G A GAAA A A A A A A A $G$ G G G G G A G A A G G A A G A A C A A C C G GCCAGC CAA A A A A G G G G C C G GAAAAAAGGGGGAAAGGAAAAAAAAGGGCBAGGAACACCGGG
 GAAAGGAAACCGGGGAGGAAAAAAACCGGGGGGGGAAAAGGG GAAGAAAAAAAAAGGAAAAAAGGAAAAAGAAGAGA GAAAGGG GAAGAGAGAAGAGGAAAGGGAGGGGGAAGAGAAGBAGAAAGG AGGAAGGAAAGCAGGGAAAAGAACAGAGGGGGAGGCAAAGGG A G A A C A A C C G G G A G A A G A G G G G G A G A A A G C A G A C C A A C C A A C $C G G C C G G G G G G G A C C A G A A A G G A A G A A G G A A C C A A C C C C A G A$ GAAGAACAGAGGAAGAAAGGGGAGGGGAGAAGAGAGGCAAAC AAACCCAGATAAGGAGGGGCACCGAAAGGAGGAAAAGAACCB G G G A C A G C C G A A A G GAGGGGGGGGGCCCCCCAAGGGG
A A A A A GAAA A A CAA A G G GAAGGAAAAAAGGAGGGCCGGGGG GAAGGGGAGGAACAAGGGGAAAGGGAGGGCCAGAGCAAGABA AAAGGCAGGGGGGAAAAGGGGGGAACCGGGAAAGAGAAAGAA
 GAAAAAAGAAAGAGGGAGGAACCAAAAGGAGAAGAACGAGAA GGGAAAAAGAACCAACCAGGGAAGGGGAAAAGGAAAAACAAA $A G G A G A G G A G G A G G G G G G G A G A A G G G G G G G A A G G A G G A A A A G$ GAGAGGAAGCAGAAACAAAGGGGAAAGGGAAAAGGAAAAACA GAAGGCCGGGGGAAGAAGAAGAGGGGGGGGGAAAAGAAGCAC CAGGGGGAAGACCGAAAGGACAAAAGGAAGAAGCAAGCAAAG GAAAAGGGAGGAGGGGGGAGGGAGGACAGAGGAAAGGCAABA A A G G G G G G G G G G A G A A G A A A CA A C C G GAAAAAAAA A G G GAA A $C G G G A A G A G T T G G C C G G A G A G A G G G A A A G A A C C A A G A G A A G G$ GAGAGGAAAGGGGAAGGGCGGCAACGGAAAAAAGGCCAGCAA A A A A A A A G A G G G G A A G G A A A A G A A G G A A GAA $A$ G A A C A G G G G G G GAA A GAGGGAAAAGAGAGCAGGGGACGGAAAAAAGAGAGAG A G GCCAA $C$ C G G G GAAA A A A A G GAAAAGGGAAAGGGGGGGAAAA A G G C C A G G G A A A A C C G G G G A A A A G G G G A G C C A A A A C A A A A G A AAACAGGAGGAGAGAGAGGGGGGAAGGAGACACGGGGBAAAG A CAGAGAGGAGGAGGGGGGGGAAAAAAGAAAAACCGGAAAAA GAAGGGGCAGGCAGACAGGACAAGGAAGGGGAAGGAAGGCCG $A C C C C C C C C A G G A A A A A A A G G A A A A G A G G G G G G A T A G C C G A C$ CAACCAAAAAGGGGGAAAGAGGGAGGAGGGAAAGGGAGAAAAG A G G A A A A A A A A A A A A G G G G G G G G A A G G GAGGA GAGGGGGTTA

ACCAAAAAAAGCCGAAGAAGGGGAGAAGGAGAGCCAGACAAA GACAGGGGGAGAGAGAGAAAAAAGGCAAAAAAAGGBAAAAGG G GAGGAAGAGGAACCGGAAGGACAGACAAAAAAGAAAGAAAC AGGCCAAAGAGAAGAGGCCGAGGCCGGAGGAAGAAGGCCGGA GACAAAAAAAAATAGAAGGGGGACCAAGGGGCCCCAACAAGG GAGCGAGGGGAGGAAGGGGAAGCAAGAAAAATTACAGAAA GAC ACAGAGGGGAGAGGGCACAAAAGAAGGAAAAAAGAGGAAAAC $A C C A A A A G A A C G G A G A G A A A G C A G A A A G A A A A C A G A A G G G G A$ A A A A G A G G GA G GAGAGGAGGAAAGAAACCGGGGGGAAAAAAG A GAGAGAGGGGAAGGGGAACAAAAGAAAAGACCAAAGAGCAG GAGAAGAGGAAGGGGAAAAAGGGAAGGGGAGAGAGGGAAGAA A G G A A A A A GCCAAAAGGGGTTGGCCAAGGGAAACCCCAGAAA A A GCCAGGACAAAAGACCCAGGGCACCGGCCACGGGBAAGGG $A G A G A A G G G G G G A G G G G G G G G G G T T A A G G G G A A A G C A A G A G A$

 $A C C A G C C G G G A A A C A C C A C G G G G G G A A C C A G G G G G A A C A A B A$ GAGGGAGGGGGAAAAAAAAGGGGGGAGGAAGAGGAGAAAGAA AAAAGCCGGAAGGGGAAGGAAAGGGGGAACCGGAAAGAAGAG GAAAACCCGGGAATTGGAGGAAGGAGGGGGGAAGAAGAAGGA A A GAGACAGAAAGGGAAGGGGAAAGAAGGGGGGAGAGAAGAA A A GAAA A A G GAGAAGAAAGGGAGCCAAGGGGAAAGAGGGGCG G G GCACCAAAAAAGGAAGGAAAAAAGAGGAAAAGAACAAGAA G GAA A GAA $A$ A $A \operatorname{A} A A G G A C A G A C G G C C A A A A G G A G A G A A A G A G G$ GAAGACAGAGGGGAGGGAGAGGAGGAGAGGGGGAGAAAAAGG G G G G G A G G A GACCAAGGAAGGGGAAAAGGAAGGAACCGGGGG G G G G G A A G GCA G G G GCCGGAAACGGGAGGCCAA GGGGAAGAA A GAA A GACCAGGACCGGGGAAAAGGAAGGGGAAGGGGGAAAA A GAGGCCGGAGAAACAAAAGGAAAAGGAAAGCAAAGGAGGAA AGAAAAAGGGGGGAAGGAAGGAACCGACAGGACAAAGGAAAA A G GCCAAACAAGGAACAGAAAAAAAAAAAAGAACC GGGGGGG AAAGGGGAAAGGGCCAGGGGAGGAGGACCCAGGGACCGGAAA GAAATAGCCGGGGGGAAAAAAGGCCGGGGAAAGCCCAAAAAAA A A G A G A G A A G A A A A GAACCGGGGCCAAGGGAAGAAAAAACAC CAAGGGGAGAGGAGGGAGGGGAAGGCCGAAAAAAAGGGAGAG A GACAAACCAAGAGAAAAAAACAAAAAGGGGAA GGGGGGCCA A A GA $\operatorname{A} G \mathrm{G} A C A G A G A A G G A A C C A G G G G G A G A C G A G A A A G G G G A$ GAGGAAAGAGGGGGGCAAAGGAAGGCCAACCGGGGGGGGGGG G G GCC G G A A A A A A G G G G A A G GAA A G G G G G A A T T A A G G A A A A A A A A G G A A G GAA A A A A A A G GAA $A \operatorname{AGGGAACCAAAAAAGGGGGGA}$ A G G A A A A C CAA A G G GAA A G G G G G G A A A G G G G G G A A A G G G G A A G G G G A A A A A A G A CACAAGGGACCGAGAGAGGAGAGGAGAAAA A G GAGGGAAAAAAGGGGGGAAAGCCAACCAGGAGGCCGAGAAA A G G G GCCCCAGAGAGAAACGGAAGAAGGGAAGGCCAAAAAAG G G GCCAGGAAGGAACAGAGAGACGAGGGGAAGGGGAAGACAA A G G G G A A G GAA $A \operatorname{GGG} G A G A A A A A C A A A G A G A A G A A G A A G A G A G$ A G G A G G G G A A C A A G GAGGGAAGGAGGAAAGAAAGGGAAAAAA AAAAAAAAAAACCAACCAAGGGGGGGGCCGGAGAGGAAAGGG GAACCGGAAAAAAGGGGAGACGGAGAAAAGGGGAGGAGAAAA A A A G G A A G A G A G G A A G A G G G G G G C C G G A A A A G G G G G A A A A A $G$ G G G G G G G A A G G A G G A G A A A A G G A G G A A G G G GAAAAA A A A G G A GAAAAGGAAAAAGGGACGAGGGAGGAAGGGGAAGAAAGAAAG
 A GACAAGGGCAGGCAGGAAAAAAGAGGGAAAGGGGGAAAAAA GAGCCGGGGAAAAAGGGAGGGGAGGAAAAGGGGGGGGAAAAG GAAAAAAAGAAGAAAAGAACAAGGGCCGGAAGAAAAAAGGA G G G A A G G A A G G A A A G G A A GAA $A \operatorname{AGGGAAGGGAAAAAGAGAAAA}$ G G A C A G G A A G G G G A A G G A A A A G G C C G GAA G GAAAAAA A GA C A AGAAGGGCCAAGAGGAAAAGACCAGGAGGCAGGGGAGGAAAC

CAAGGAACAGGAAGGAAAGAAGGAAGGAAAAAAGGAAAAGGG G G G G G G G A G G G A G A A G G G A A C G G C C A A GAAA A G G G G GA G C A G GAAAGGGAACCAAGGGAAGGGAGGGCAAAGGGAGAAAAAAAC CAA A G G GAGACAGAAACGGGGACGACCAAAGAGGGAAGGGGG G GAA A A A GAGGGAGGCAAAAAGGCCGGGGGGGGAAAGAAGAG A G G A A A A G A G A A T G A G G A A G G A A GAAGAGAAGAGA GAAA A A A GACAAGGGAGGAACCGGAACCAAGAAAGGAAGGGGGGGAAAAA AAGAGGAGGACGAACGGAAACGGACGAAGCCAGGAAAGAAAA
 AGGAGGAAAGGAAGGAACCGGGGAGCCAAGGAAGGAGACGGG GAAAAAACCAAGGGGGGGGAACCAAAAAACCAAGAGGCAGAG A A GAA A A G GCC C G A A G G GAGAGGGGGGAGGGGGAAAAAAGGG G G A G G A G G G A G G G G G A A G A G G G G A G G A A G C C A G G G C C C C G G G
 A G G G G G A A G G GCC G G G G A A A A G A G G G G G G G G A G C C G A G A G G C CAAAACCGGGGGAGGCCGAGGCCCCGGGGGAAGGGGGGGGGA A A G GAACAGCCGAGAGGGGAAAAGGGGAAGAAACCACCAGAC C G G A G G G G G G G G G G G G G G G G A G G A G G A C C C A A A A A C A A G G G C ACCAGAAGGGGGGAGCCAAAGCAGAGGAAAAAAAAAGGGGGC CAAAAAAAAGGGAGGGGAAAGAAAACAAGGGGGAGAAAAAAA AAAAAGGGGAAACGGAAGGGGAGGAACGGGGCAAGACAAGAA GAA A A G GCAACGAGGGGACAGGAAGGACCGGAAAGGGGGGGA
 A C A G G G G G G G G G G A A $\mathcal{A} G G G A G A G G A A G G G G G G G G G C A A C G A G$ GAAGATAGGGGTAAGGGCAGGGAAAAAGAGGGGAGGGGAAGB GAA A A A G G G G G A A G G G G G G A A G G G G A A GAGGCACA GACAAAC $C \subset C A A A A G G A A A C G G A A A A A G C C G G G G A A A A G G A A G G A A A C A$ A A A A A A A G GAAGGCCGAGAAAGGGAAAGAAGGACCAACAAAA A A A G G G A A A G G G G G G A A G A G G G G A A G G G G G G G G G G A A TAAA $A$ C G GCACAACGAGGGGAGAGGAGGAACCGGAGGGAACAGAGGG A G G G G G A G GAAAAAA A A G GAAAAAGAGAAGAGCCGGGGCCGBA AGGGGAAAAAAGGCCGGGGAGAGAGAAGAGAAAGAGGAAGAA A GAA $A \operatorname{GAAAAAAAAAAAAACACGAAAAAGGGACAGGAAGAAAG}$ $A \subset A A A G G A A A G G A G G A A C C G G G A A A G A G A C A G G A C A G A G A G A$ TGGCCGAGGGGAAAAGGAAAGGGAAGGGGGGAACAAG
$C \subset G G A G G A A G A A C A C A A G G G G G A G A A A A A A G G A A C C A A G G G$ GAACCCCAAGGAAACGGGAAAGGGGAAGGAAGGGGAAAAAGG GAGGGGGGGGGGGGAGGGACAGGAGGGAGAGGGAAGGGAGAT TAAGGGGAAGACAAAGCAAAGAAAAGAAGGACCGGAAAAAAG GAAAAAAGGGGGGAAAAAAAAAAAAAGCCAAGGACGAGAACC A GAAAGGAAAGGGAGGAAAAAAAGGGGGGAACCAAAAGBCCA A A A A A G G A A A A G A G G G A GAGGGAAGAAAGAAGGGAGGAAAA G AATAGGAAGAAGAAGGAAAGGAAAAGAGGGGAACCGAGAGAA CA $A \operatorname{G} G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A G A A G G G G G$ G G G G G G G A A A G A C A A A GAGAGGAGGAGGGCCGGAGA GA G CA G AAAGGAGGGAAAAAAAGCCAGGAGAAAAGCCGGAGGGAGGAA AAAGGAGGGAGAGGGGGGAACAACCAGGAAAAGACGGAGCAT A A GAGCAGGGGGGGAGGGAACGAGAGGCGGGAGAAGGAAGAC
 ACAAGACGCAAAGAAAGGGACAGGAAGAGAAGGGGGAAAAAG
 CCCGGAAGGAAAAAGCAGGCGAAAAAAAAGGGGAAAAAGCAA A A C G G A A A G G G G A A A A $\mathcal{A} G G G G A G C C G G A C A G G G G G A A G G G A G$ GAGGGGAAAGAGGGGAAGGCCGGCCAAAAGGAAAAGGCAAAC A A GAC A G G A G G A A A A A A G G G G G G G A C C G G A A C C G G A A G G A G C CAAAAACAGCAACCCAGAAGGAAAAAAGGGGCCAAGGAAACA G G A A A G GCCAGGCACCCAAAAGGGGAGGAGAAAAAAAAAAAA A A A A A CA G G G GCCAAAAGC CAA GGAAAGGAA GA GGGGAGAG G G $A C C G A A A G A G A G G G A A A G G A A A G G A G G G G A G C A G A G G G G G G G$

AAGCAGGGAGAAGAGAAAGGGAAGAAGAAAAGGGGGGGAAAG
 AAACAGGGAACACGGGGAGAAGAAAAGGGGAGGGGAAAGAGG GGGACCCAAGAAAGGAGCCGGAACCAGAACCAAAGGAGGGGA A G GAAAAAAGGGGGGAAGGAAAAGGCCGGGGAAAACCAAGAAA $A C C A A G G A A C C A A A A G G A A G G A A G G C C G G G G A A G G G G B A C C A$ A G G A A A A G A A A G G G G G GAGAGGACCGGAACCAAG GAAAAAAA GAGGGGAAGGGATAAAGGGAGGAAAGGCCGGCCAAAGGAAGA G A A A A A A G GCCAGGGAAAAGGTTGGAAGGGGAAAAAAAAGGG GAAGGAAGGGGAAGGAAAAGGGGCCAAAACCAAAAGAAGGGG A GAGGAACAAGGGGGGAGACAAAGGAGAAGGGGGGAAGGGAA A A A A A A A A A GACCC GAGAGAGAAGAGGAAGAGGGGAAGAAAA GAAGGCCGGGGCCGGAGAATAAAAAGGAAAGGGAAAGAAAAA A G G A A A A A G G G G G A A G G G G A A C C A G GAGGGGGAAA G G A A A A A A GAGGGGAAAGCCCAGAGGAAAAGGAAAGGGAAGGGAAGGGG AAAAAAGGAAGAGAATACCGGATGGACCCAGGGGAAGGAAAG AAC GAAAAAGGGAGAAGCCAAAAAACAAGGGGGAAGACAGAA G G G A A G A G A G G A G G G G G A A G G A A A A A GAA $\operatorname{A} G A G G G G A G G C C G$ GAAAACCGGGGAAAAAGAGCAAAGGAAAAGGAAACBAACACA
 TAAGGAAAGAAAACCACAGAAAAAGCAAGTTAAAACACCGGA AAGAAAAGGCCGGAAAACCCAACAAACAAAGGGAAGAGGGGA A A A A A G G G G G G GAGAGAGGAAGGAGAAGGAACAAAAGGACAA $G C C A G A A G G G A A G G A G A G G G G C C A A A G A A A A G A A C C C G A G B A$ $G C C A G A G C C A A G G C C G A C C A G G G A A C G A A A A C C G G G G G A A G C$ C G G G GCAA G GA G GAA $A \operatorname{A} G A A A A A A A A G G A A G A G G G A G G G G G G G$ GAAAACCGGGGGGACATGGAAAACACGCCGAAAAGAAAAAAA G G A A G A G C A G A A A A G G A G G CACCGGAAGGGGTTGGGAA G G G G G G G G A C A G GAAAAAGGGGGCCCCGAAACAGAAGAGCAAAGAA G G G G G A A A A A A G GAAG GAAGGTTAAGAGAAACCCCAAAAAAA A A A C C A A G GAA $A \operatorname{G} G A A C A A A G A G G G G G A C G G C C C A G A G A C C G$ GAAAAAAGAAGGCGACCAAGGAGGAAGAAAGGAGAGGGGGGG G GAAAGGGGAACAGACAAGGGAGACGCCAAGAAGAGACAAGC ACCCCGGAAAAAAACGGCGAGGACCAGCCCCGGGAAGAAAGC A AC C A G G G G G A A G G A G G CA $A G G G G A A A A A G A A A A G G A G A A C A A$ A G G C C T A G A G G C C G G A G G G G G G G A A A A A G A A G G A A A A A A G G A
 GACGAAAAGAAAGAGGAAAGAAGGGGGAAGGAAAGGAGAGGA A G G G A A A G G A A G G G G G G G G A G G A A G C C G G T T G G A G C C G G G G A
 A A A G G GA $\operatorname{A} G \mathrm{G}$ GAAAGGCAGAAGGGGGGGAAGAAGAAGAGAGAA A GAGAAGAGCCAAGGAAAAAAAAGAAAAAGGGGCCGGGGGGA C C A G G GAGGCAGGGAGGAAAACAAAAAGAAACCAAGGGAAGG G G G A A G G G G G G G G G A G G C C A A C C G G G G A A G GA G G A C A G A G G A $A C C C C G G A A G A A G G A A A A A C C G G G G A A G G G G C A A G A C A A G G A$ A GACCGGAACCAAGGAAGAACCACCGGAAAAAGGAGAGAACA C G A A G A A A A C A A A G G G G G G A A G G G A A C G G G G G G C C A G A A A G A GAAGGAAAAGGAGGGGAAGAAGGGGAAAGGAGGGAGGGAAAA A G G GAGGGGAAGGAGGGAGGAGGGGCCGGGAGAGGGAAAAGA GAACCGGGGGAAAGGCCAAGGCAAGCAGAAGGGGGCCGGGGG G GAGGAGGAAACCGGACGGGAAAAGGGCAGGGGGAAGAAACB G G G G GAG G A A G G G A A G GAA A G A A A A GGGGAGGAAA G GAACAC C G GAGGAGGGGAAAAAGGGAGGAGGGGAGAACCGGCACAAGA GACCGCCAGACGAGGACGGAGGGCCGAGGCCGAGGAGGAAAA AAAGGGACCGGAGGGAAAACCGGAAGGCCGGAAGAGAAGAAG $A G A C A G A A G G G G G G A G G C A G G A A G G G G G A G G G A G G G A A A G G G$ A A G GAGGGGCCAAAACCGGAGAGAAAAAAACAAGGGGGGGGA A G G G G A A A A C G A G C C G G G G A A G G G GA GA A A G G G A C G G G G A G C A G G G A CAAAAAAAAGGGAGGGGGAAGGGGCCAAAAAAAAGCA

AAACCGGAGGGGGAAGGGAGAAGAGAGGGAAAGGAGGGGGGG
 $G G G A A A G G G G G A G A G A G G A A G G A G G A G G A A A G G A A A A C A A G A$ G G GAAAAAGGAGGAAAAGGAAGGGGGGAAGGAAGACAAGAAA A G GAACCGGAAGGCCAAAAGGGGACGGACGGGGAGCAAAGGC C G G GAAAGGAACCGGGGGGGGAAAAAAGAAAGGGGGAAAAAC A GAGAAGGAGAAGGGAAAAACGGAAGGAGAACCCAGACAAAG A G G GAGGGGGAAGAAAAGGCAAAAGGGGGAAAAAAAAAAGGG GAAAAACAGAGGGACATGGAATTCCAAGAAAGGAACGCAAGC $C G G A A G G A G A A A A G G G A A A G G T T G G A A G G A A G A A G G G A A A A A$ AAAA $A \operatorname{Ag} \operatorname{A} A A A \operatorname{A} G A A G G A A A A G G A A C C C C G G A G A A A A G G G G G$ G G G A A G G G A G G G G G A A A A A C C A GAA A A G GAAAA A GAGAACAA A A G A G A A G G G G A C C C G G GA G GAAAAGGAAGGAAGGCC GAA G C C C C C A C CAA G GAAA GAAAGCCCCGGAAAAAAAAAAGGGAAAG GAAGGGGGGAACCAAGGCCAAGGGGAAGAGAGGAAAAAGGGG G GAGGGAAAGGAAAAGGACGAGGAGAAGGAAAAAAGGAGCCA GAAAGCAAAGGAGAAAGACCCGAACGGGAGGAAGGAAAACCC C G G A T T TA GAA $A$ A G GAGAAAAGCAGAAGGAGCAGAACAGCAG ACCGGGAAAACGAAGAGAAGGGGGAAACCGGAACCAAAAAAA AAAGGGGAAAAAAAAAAGGGGAGCAAAAAGGAAACBAAAGGG G G G G GCAGACGCAAAAAAAAAGAGGGGGGAGAACCAGAAGAA AAGAGGAGACCAAAGAGCCCATTAAGGAGGACAAAAGAGGAA GAAGGAAAAAGTTGGGGAGGGGAGGAAGGGAAGGGAAGAAAG
 A A G G A A A A A C C A C A G G G G G G A A A A G G G G G G G G G G G G A A A $\mathcal{A} A \mathrm{~A}$ G GACAGAAGGGGGCCGGAAAGCCAAGGGAAGAAGGAAAAGGG G G G G G G GAGGGGGAAAAGGAGGACCGAGAGGGGAACAAAAAG G G GCCAACCGAGAGAAGAGAAGGGGAGGAGAGGACGAAGGBA GAAGGGGAAAAAAAAAAGGGGGGAGGGGAAAAAGGGABAAAA GGGACAGAAAGGGAGAAAGATGACCAAGGCCGGAACCAGGGA A G A G A A A A A A G G A G G G G G G G A G A A G G G G G A A C C G G C C G A G G G AAGGGAAAAAAGGAAGAAAGGGGCCAAAAGGAGGGAAAAAAG
 G G G G G G G A A G A A A G A G G A A A GAGGGAGAGAAGGAAAACAAC G AGAACAGAAAGCCACGGAAAAAACCAAGGAAGAGGAG
G GAGACAAAAGGGGAGAAGGCCCAGACAGGCCGGAACAAGC $C G G A G G G C A G A A C G G G G A A A G A C A A G A G G G G A A A G A A A A G B A$ $C \subset A G G G G G G A G G A G G A G A G G G A A A G A A A A G A G G G G A G G A A G A$ A A A G G G G A A A A G A A A A A T T G G A A A GAGCCGGGGAGAAAAG G G A G GCCAGAGAAGACCGAAAAGGGGAAACCCGGAGACAAGATA G G G GAGGAGACAGAAAAAAAGCCGGCCCCCAGAAAGAAGAAG G G G G G G G A A A A A A $\mathcal{A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A A A A A G G G G A A G G G G A A A A B A C A A$ G GAAAGGAAAAGGGGGGAAGGATGGGGGGGGAGAAGAAGCCA A G G C A G A A A G G G G A A G A G G A A G G A A CA G G G G G A C A A A A A G G G GAGAAGAAGCAAGAGGGGGGGAGAAAAAAGGAACCAA GAAAA A G A A A C C G GAA $A \operatorname{GGGGAAAAAGAAGGGGCCAAGGAGAGAGGAA}$ A G A A A A G A A A A G G A A G A A A A GCC G G G A GA GA GAA A C GAA A G G G G GAA A GAGGGAAAGAGAAACAAAGGGAACAGACCGGCCGGG G GAAAGGGACCGAAAGGGGAGTTAACCAAGGCAAAAACCGAA G G G A G G G A A A A A GAGAAAAAGGGGAAGGAAGGGAAAAAAAAA A G GAA A G A A A G G G A G G G A A G A A A G GAACC G G CA GACC G G G G G $G C C C C A G A G G G G G C C G G G G A A G G A A G G G G G G G G A A A A A A C C B$ GCCGGGAACGGGGAGAAGAGGGGAAGAAGGAAGAGAGAAATA AAAGAAGCCGAAGGGGCGGGGGGACGGCCGGGGGAGAAACCA GAAAAGGGGGGGAAAGGGGAGAGGAGGGGGGGAGGGGAGGGG A G G A G A A A A GAGAGGAACCGAGGCAAAAAGGAGGGAAAAAAG

 $G G A A A C C G G A G A C C A A A A G A A G C G C A A G G A A G G A C C C A G A A G$

GAGGGAGACAAAGGAAAGGCAAAGGAAGGGGAGGGAAAAGGC $C G G A G G G A C C A A A C C G G A A A A G G A A G A A G C C G G A G G G C A C A A$ $G C C G G G A A A A A A G G A A A G G A C A G G A A A A A A A G G G G A G A G A G A$ AGCAAGGAACCACGACCGGAAGGAAGGGGAGAAGGGGAAGGG GAAAACAAAGGAGAAGAAACCGAGAGAGGGGAAAAGGGAAAA $G C A A A G G A A A A G A C C G A G A A A C C G G A A A A A A G G G A G A G G G G C$ $C G G G G G G C C G G G G A G A A A G G G G A A A G G G A A G G G G G G G C A A A G$ G G G GAAGAAAGGGAAAAGGAGAGGGAGCAAAACAAGGGAAAA A G G A A G G G G G G G G A A G G G G A A G G A G G A A A A A G G G G A G A A A G A TAAGGACAGGAGGAAGGGAAAAAAGAAGGGGCCAAAAGAAGG A G GA $\operatorname{l}$ A A A A GAGGAAGAGGAGAAGAGGAAGGAAAAGAGAAAA AGAACCCGAAGAGAGAAAACCCCAAAGCCGAGGTTAAAAAAA A A A A A A G G A A G G A A A A A A A G GAAAAAAGGAGGGGAAAAA GAA G GAGAAGGGGAACAGAAAAAAGAGGGACAGGGAGGAGGAAGAG G G G G G G G G G G GCA GCGAAAAAGGAACGGGGAGGCAGGGGAGG A G G GAGGAGAAAGGGAAAAAAGGGAGGAACACCGGCCAAAAG G G G A A GAGAAAGAGGCAGGCCCAAAGGGGGGAAAAGAAGAAA CAGCAAAACGGAGGGAAAAGGGGACAGGGGAAGGGAAGGGGA $G G G A G A C G G G G A G A A G G A G G G C A A G A G G A A A A A G G G A A G G G A$ A G G G G A A A A C C A A A A G A A A GA $\mathcal{A} G G G G G C X A A G G G G G G G A A G A$ GAAAGAGAAAAGAAAGGGGCCAAAGGAGGGAAGAAGACAAAA A G G G GAAGACCCCAAAAAAGGGGAACCGAAAAGAGGAAGAAA AAAGGGGGGAACAAAGAACGACCGGGGAAAGAGAGGGGGAGT A G A A G A A A A A G A A G G G G A GAGGGAGAAAGAATTGAAA GAAAA
 A G GAGACGGAAAGAAGGGAAAGGGGGGAAAAAACAGAAAAAA G G GCC C A G G G G G G A A G G A G GAGGGGACAGGGCCAAGAAAA G G GAGAGGAACAAAGGGGACAAGGGGGAAAAGAAG
 AAAGGAAGCCCCCAAGGAAAAAAGGGAAGGAGGCCGAAAGGA $A C C A A A A G G G G A A A A G G A A C C G G A G G A A G A C G G G G C C G G G G A$ A AACCAAGGAAAGAAAAGAAGAGGGGGCCGGGGAAGGGAGGA A A A A A A A A A G GAAGGCCGGGGCCGGAGGAGAAAAAGAAAAAA $A C C A A A C G G A C A A G G G A A A G G A G G A A A G G A G A G A C A G C C G B A$
 A A GAAAAAGGACCAGAAAAGAAGAACCAGAGGGCCGGCAAAA A GAAA $A \operatorname{A} A A A G G G G A A G A G G A G G G A G G C A G G A C A G G G G A A A G$ GCAGAAGAACCGAGAAAGAGAGGGAAGAGCCGAGGGGGAAAG GAAGGAACCGGCAAACCAGAGAAGGAGAAGGAAGAGGTXAAG GAAA A G G G G A A A A A A G G A G G A G G G G A A T T C C G G A GACA G G G C AAAAGCAAGAAGGAAGACAAAGAAAAAAGGGCAAAACAAAAG G G G A A G G A A A G A A A G G G CAA A G GAAAAGGGGAGGAAAACAGA A GAGGAAGAACAGACGGAAGGGGGGCCAAGAAAAAGGAGGGG GAGAAGAGAAAGAGCGAGAGGAGAAAACCAGAAGGAAAAGAG GAGGGGAAAGGGAGAGGAAAAAACCAAAGCAAAAAGAAACAG A A A G G G G G GCAAC $\mathcal{C} C C G G G A G A G G G G A G G G G A G A A A G A A G A A$ AAAAAAACAGGAAGGGGACAAGGGAAGGGCCGGATGGGAAAA GAGAAAAACGAGAAAAAAAAAGGAAAAAAAGCCAAAAGGGGG
 GAAAAAGCCGGAACAAAGGAAAAAGAAACAGAGAACAAAAAC
 CAAGGAAGAGAGGGGCCAAAAGGAAACGAGGTTACAAAAGGA $A G C G A G G G G G G G G A A G G G G G G A A A G G G A A G G G A G G A A A A G A C$ C GAGGTAAGTTCAAAGGGGGGAAAACCAAGAAAAAACAAGAG GAAGGAAAGGAGACCGGGAAAGGGGCCGGAAAACCAAGAGAA G G A A A G G G GAACCAAAAAAAACCAGCCAAGGAAGGAAGGGGA A G G G G G G G G G A G G G G G A A C G G CA C C CAA A A GAA A A G G A A G G C A GACCGCCACAAAAAAGGAGGAAGGAAACAAAAACAGGGGGAA $G C A A A A A G G A A G A A C G G A G G G G A G G A A A A G G G A A G G G A G G G A$

A G G G G GAAAAGCCAAGAAAAGAAAGGGGGAAAAGGCCAAAGG GAAGAAACCGGAAGGGGAAAAACAGGGGGCCAAAAGGCAGAA
 AAAAAGGAAAAAAAAAAGGGGAAAGAAAAAGAAAGAGAAAAG A A A A A A A G GCC GAGGGGAGCAGAAACCAGAGAAGAACAGGGA GAAGGAGACAGCCAAGGGGCCGGGGAAGGAAGGCCGGAAAAA AGAACCCAGCAGAAAGGAAAAAAAACCAAAAAAAAGGGGCCA A G GAGGGTTAAGGGGGGAAAAGGGAGGGAAAGGGAAAAAAAA A G A A A A A $\mathcal{A} G G G A A A G G G G G A A G G A G A G A G C A A A G G A A G G G G G$ GAAGGGGAAGGAAAAAAGGAAAAAAAGGAACAGCCAGGAGAA G G G G A A G G GAGAGGGAACCGGGGGGAAGGAAAAAAAAGGCCA
 A A GCCAAAAAAGGAACCAAGGGGAGGGCCGAGGGGAGGAGAA AAACCGGAAGGAGAAGAAAAAAACCAAAGGGACCCGGGAAAA A A A GAA A A TCCGAAGGGCCGGGGAAACGAAAGAGGCCGAAAA AAAAAGGAGGGGGAAAAGGGGTAAAAAAAGGGAAAGACAAGB G G G A A A A G G G G A A GA $\mathrm{A} G \mathrm{G} G \mathrm{GAAAAAAAGGCCGGAAAAACACAAA}$ A A A A A A A A A A G G G A A A A A A A GAGGAGGGACAAAACAAAAA GA
 GAGGGGGAGAACCAGAAAAAACCGGAGGGAAAAACGGGGGGA GAGCAGGACAAGGAAGAAGAAGGAAGAGGCAAGGAGAACGGG A A GAGAAGACAGGAAGACCAGAAGGCCAAGAAAGGCCAAGAA
 G GAA A A A G GAA A A A G GAGAAAGGAAGGGAAGGA GA GGGAAA A G G GAACCGGGGCCCCGGGGAAGGAAACCCAGCCAAAGAGGGA
 GAAGGGGCCAACCCCCGCAGGAGGAAAGGAAAAAAAAGGGAA G G G G A A A G A G A A G A A A G CAGAGCAGCAAGAGGAAA G G CACA GA A A GCAACGGAAAACCGGAAGGAGGGAGGGAGGGCCAGABAAA G GAGGAAAGAGAAAAAAAAAAAAACGAGGGAGGGGGCAAAGA GAAGGAAAGAGAAGACCGGACAGAGGAACGGAGAGGGGGGGG GAAAAAAGGGAAGGAAGGGTTGGATGAAGAAAAAAAACACCA GAAGGGGAAAAGGCAGAGAAGGGGGAACCGAAGGACAGAA GA G GAA A CAAAGGGGAAAGGGCCCAGGGGAGGGCCGGGGGAAAG GAAAAGGGATTAAAAAACAAAAAAGAGGGAGGGAGAAAGGGG G G G G G GAGGACAACCGAGGAAAAAAGGACGGGGAAAAGAAAC $A G G C A T A A A G G A A A A A G C C G G C A G G G G G G A A A A G G G G A G C C G$ A G GAAAAGGGGGGAAGGAAAGAGGGGGAACCAAAAAAGGGGG $G C C A A A A G G A A G G G G A A A A G A C C G A G A G A A G G A A G A C A G G G A$ A G G G G A A A A A A A A A A A A GAAAAACCGAGGAGAGA G GAAAGGC $A G G G A A G A A A A A A A A G G G G G A A C A G G G A A A G G A G G C C C A A G A$ G G G A A G G G G A A A A G GAA $A \operatorname{G} \operatorname{T} A \mathrm{~A} G A G G C C G A G A A A A A A A A A G A A$ GAACAGGGAAGGAAAAGGGCCGGGGAGAAAGCCGACCAAGGG G G G T T G G G G G A G G G G C C A A A A A A G G G G G G G GAAA A G G G G G G G G G G A A A A G G G G A A G GAAAAGGAAGGAAAAAAAAA GAAAGGGT $T G G G G G G A G G A G G G A A A G A G G G G A A G G G G C C A G A G A A G A A A A$
 G G G A A G G G G G G A A A A A A G G G G A A G G G G G G G GAAAAAAA G GA G C CAGAGCCGGGGAAAAAAGGGGAAGGAAGGAGGAAGAAGGGGG GAGAGAGCGGAAAAAGACCAACCGGGGAAAAAAAGGAAAACA A A A A A A A G G G G A A GAAAAAGGAGGGAAGAGGAAAAAAGAAAA AAAGGAGAGGGGGAGAAAAGAAAAAAGAAGGGGGGGAAAGGA A A G A GCA A G G G G G A G G A A C C A G G G A G G G A A A A A G G A A A G G G A TAAAGACGGAGATAAAGACCGTTGGGGAAGGAAGAAAAGGGA A G G GAGGAGAGAGAAAACAGGCCAAAAGAAGGAAAGGGAAAA G A T G A A A A C G G G G A A T T A G A A G G C C G G G G A A G G G GC C A G C A A A G GAGAGAAAAAAGGAACCGGAAAAAGAAAAAAGGAGAAGAC CAAACGGGAAAGAGGAAAAGGAAAGAAGAACGGATGGGGGGA AAAGAAAGGGGAGAGAAGAGGGAGAAAGGGGAAAAGAAAAAC

CAACCGGAAGAGGAAGGAACAGAAAGGACAGCCGGCAGATAA GAAGGAGAAGGGGAAGGTTCCAAAGTAGAAACAGGEAAAGGG GAGAAGAAAAAGGGAGGACACAAAGAGCCAAGGTTAAGGGGA AAAACGGGGGGGGGGAGGGGGCACAGGAGGGAGAGCAAAAGA A G G G GAAAAAAGGCAAGACAAGGAAAAGGGGGGAAAAAAGGC C CAACAAGGAGGGACCCGGAGGACACACAGAAGAGGAGAAGG A G A A C C A A G A G A G G A G GATAC G G G GAGAAACCCAACCAGAC G GAAGGACCCAACCGGAAAAAAAAGGAACCCCAGGAAGAGCAA A A A A A A G A A A G GAACGGAAGGAAGGGAGAAAAAGGGGGAAAA A G GAA A G G GAAAAAAGAAGAACCGGAAGGGGGGGAGGAAAAC C G GCCAAGGCAAGGGAGAGCCGGGCATGAAGGGCAAAGAGAG A A G A A G G A A A A A A A A GAAGGGGAGGAGAGAAAAAAAACACAA $A C C A A G A G G A G G G A C A G G G G G A A C C A G G A G G A G G G G G G A A B A$ A G G A A A A G GCCAAAAAAGGAAGGAAACAGACAAAAAGAAAAC $C G G T A A G A A G G G G G A G A G G G A A A C C G G C A A A C C A A G B A A G G G$ GAAACGAAAGGAAGGAAGGGGGGAAGGCCAGAGAAGAACBAA
 A A A G G GAGGGGCCGGACAGCCAAGAAAGACCAAAAAAGGGGC $C \subset C G G A A G G A A G G A A G G G G A A A C G G G G G G C A A A G G G G G G G G G$ GAGGAAGGGAGGGAGCAACAGGGGAAAGGAAAAAAGGACAAG AAAGAAGGAGGGAAAGGGGGGAGCCTTAAAGGGAAGGAAAGA AGGCCAAAAAGAACCGAGGAAAACACCCCCCGAAAGAACAAA G A A A A A A $\mathcal{A} G G G G A A A G A G G G G G G G G G G G G C C A A G G G G A G G A A$ C C CAAAAGAAACCAAAAGGAAAAAAAAGGAAACBAAAGAGGG ATAGAAGGAGAAGAGGGAAAGGGGGGGAACCAGCACCAAAGA
 GAGGAACAGAGCAGGGGAGAGGGAAGGAAGGGGGGGGGAAAG GAGCCAAGGGAGGGGAAAAAGGAACGGAGAACCACAG
GAATAGGAGAGAGGGAGAAACAAAAAAAAGCGGAGGAAAAG GCCAAGGGACGCCGGGGAGAAGGGGGGGAAGACCAAAGAAGA A G G C C G G A G G G G G G G G G A A A G A G C C A G A A G G A G A G A A G A A G G GAGGGAAAAGGCCGGAAAAAAAAGGCCAAAAGGCCAAAAGGA GAGGGGGAGAGAGAGAAAGGGACAGAAGGAAACGGGGAGACC
 GACGGAAGGAAGGGGGGAAGGGGAAGGGGGGGGGGGGGAAGA GC GCC G A G G G G G A A A T T C C G G T T A A A A A A A A A A G G A A A A A A G G G G G G G G G G G G G G G G A A G G G G A A A A A A A A G GA G G G A C G G A G G GAAAAGGGGAGGGGCCCGGAAGGAAAAGGAAGGAGGACCAAA GCAGGAGAACCGAGGAAGGCCGGGGAAAAGGAACAGGGCAAG G GAGAAAGAGAAGGGGGAAAAGGAAAAAAAGAGGAGAGAACA $G G G A C G A A A A G A G G A G A A A G G A G G G A A A A A A G G G G G G G A G A A$ GAAAAGAGGGGGAAGACGGCCAGAGACAGAGCCGGAAAAGGA AGGAAGGGAGGAGGGCCGAGGAGAAAGAAGGAAGGAAAAAAG A A A G GCCTTACACGAAAGGGAGGGGAACCAAAGGGATAAGEG G GAGGAGGAAAAAAGAAAAAAAGAAGGCAGAGGAGAACAGAA A A A A A A A G GCAAGGAAGGGCCGGGACCGAAGGAAAAAGAACA A G A A C A C A A G A A A A A A A GAGGGGAAGGAGGGGGGGGGAAAAA A G G G G G G G G G G A C G G G G G G G A A G A G C G C C A GAAAA A G G GAA $A$ A GAA $A \operatorname{GAA} A A A G G G G A A A A G A A G G G C C G G A A A A G G A A G A G G G$ G GAGGAAAGAAGAAAAAGGCGCAAAAGAAGAGGGACAAAA GA GAAAGAGGGAAAAAAGAAAGGGGAAGGAAAAGGGGAAAACAG G G GAAACAGAGATAAGGAAAGAAGAGGGGGGCAGGAAGGAAA G G G G G A A A A G GCCAACCGAAGGAACCACAGGAACCCCAACCG GAAGGGGAAAAAAGGGGAAAAGGAAAAGGAAGGGGAAGAAAG GAA A G A A GCGGAAAAGGGGGGGGAAGGGGAAGGCCAAGAAAA A G G G GCCGGGGGGAATXAAGGAAAAAAGGAAGGGGGAAAAAC CAAAACCGGAAGGGGCCAACCAAGGAAGGAAGGAAGGGGGGG GCCAAAAAACCCCAAAAAAAAGGGGAAGGAAAAGGAAGAAAG AAGAAGGCCGAAGACCCGGGGAGGGAAAAGGAAAAGAGACAC

C G GAA A A A G G GCAAAGAAGGGAGAGAGCAAGGAAAAACAAGC C C A A G G G G A G G G G G G A A G G G G G G G G G G A C A G A A G A G G A G A G G GAAGGGGAACCTTGGCCCCGGAACCAAAAAAAAGGGGGATAA
 GAAAACCAGGGAGGGGGGAAGGAGGGGACGGAAGAGACAGGB G G GCGGGAGAAGGGGAGTTGAAGGAGGAGAAAGGAGAACAAA AAAAAGGAAAGAAAAAAGAGGACCCCCGGAAGGAACAAGGAA ACAGGGGAAATAGGGAACCGGAAAGCCCCGAGAAGACGAAAG A G G G A A A C A C A A G G A G G CAGGGAAGAAGATAAAAAAAAGGAA $A C C G G A G C C G A C C G A A A G G A C A A G G A G C C A G G G G G G G A A A G A$ A A A A G A A A A A A A GCCAAAAAAGGAACCCCCCGGCCCCCAAGC A A G G A A A A A G G T T G A G G G G C C G G C A A A G G G G A A G G A A A A A A $G$ $G C C A A A A A A G G A A G G G G T T G G A A A A G G C X A A G G A A A A A A G B A$ A A A G G A A G G A A A A A A G G A A G G G G G G C C G G G G A A A A G G A A G G A AAAGGAAAAGGAAAAAAAACCCCAAAAAAGGAAAAAAAAAAA A G G A A A A A A A A A A A A G G G GAAAAAAGGGGGGCCAAAAAAAAA
 GACGGAAGGGACCCCGGGGAAAAGAAAAAAAGGGGCCAAGAA GAAAATTGGACGGGGAAAGAAAGGAGAAACGAGAAAAGAAAC A A A A GCCCCGGAAGGGGCCAGGAAGACGGAAGAGGGGAAAAA GAAGGACAAAGAAAGAGCAAAGGGAAAAAAAGGCAGGGAAAA G G GAAA A A G G GAGACAAGGGGAAGAAGACGAAGCCAAGAGGG A G G G A A C T A G G G G C C G G A G G G G G G A A A A G G G G A A G A A A A A G G GCCGGGAAGGGGGAAAAGGAAGGAAAAAAGGGGAA GAGAAGG
 G G G G G G G A GAA $A \operatorname{GAA} A G A A G G A G C A G G A A G A A A G G G G C A A A C$ A G GACGGGAAGGAGAGGAAAAGGGGATAAGGACGAGAGAAAA A G G A C A A G G G A A C G A G G C A G A A G G G G G C C G A G G A C T T C C A G G AAGGGAACAGAGGCCAAAGAAAAGGGAAGAAAAGGAAAGABAA A G G G GCAAGAGCAGGAACCAGAAAACCGAGAAGGAGGGAAAG G G G A C A A A GAA $A \operatorname{G} G A C C A G G G A A G G G G G G A A A A G G A G G G G A C$ AAAAGGGGGAGAAAAAAAAGGGACCAAAAGGGGGGGGAAGGC CAAACGAGGGGAGAGGGGGAAGGGGGGAAGGAAA$G G G G G G G A$ A G GCCAAGAACGACCAGGAGGAAGAAGGAAACCGGAAAAGAA
 AAACCAATAGGGGGAAGGAAGAGAAGGCCAAAAAAAGAAAAA C G GAGGAAAGACACATACCGGGGAAGGTTAACCACAAAGAAA C GAAAGGAGAGGGAAAAAAAACAAAGGAAGGGGAAAAAAGBA A G G A A G G G G C C A A C C C C G G G G A G A A A GAA $A \operatorname{AGGGGGAAAAGGG}$ G G G G G G G A A G G A A G GAA $A \operatorname{G} G A A A G G A A A A G G G A G A A A A G A A A A$ GAA A A $A \operatorname{A} G G G G G G G G A A A G G A A G G G G G G G A A G G G G C A G G G G G$ GA $A$ A A A A $\mathcal{A} A \operatorname{A} G A G G G A G G G G G A A A A A A A G G G A G G G A G G G G B A$ AGGAAATGGAAGGAAGGAAAAAAGGAAGGCCAAAAGGGGCCA AAAAGCAACAGCAGAATGAAAAAATAAACGGAAGAGGGAAAG GAGAAGGGGGGAAGGGGTAACAAAAAAGGAACCGGGGAAGAA
 G G G GACCAGCAAACAAGGGCAAAAAAAAAGGGGGGGGGGCCC G G GA ACC G G G GAGGGCCAAGGGGAAGGGGAACAAAGGGAAAG G G GAA $A \operatorname{GGGAAAAAAA} \operatorname{A} A A A G G A A C C A A G G G G A A C A A G T X A C G$ $G C \subset A A C C G A A A A G A A A A G G G A A A G G G G A A A A C A A A A A G G G G G$ G G G A A G G G G G G G G A A A A G G A A TAAAAGAAGGGGAACAAATXA $A C C G G C C A A A G A A A A G A A G A A G G A A A A G G A A A A G G A A A A G G A$ A G G C C A A A G G A G G A G G G G C C A A G A A G A C C A G G G G G C A C C G G G G G G GAACAGAAAGAAAAAGAGGGAAAAGGGAGGGGAAGAAAG GAAA A A GAGGGGGAAAAAGGAAGAGCCGGCCAAGGGGCCGBA TAAAGGGCCAGGGGGCCGGACCAGAAGCACAACCCAAAGTTT T GAAAAAGGCAGACAGGGAAGGGAGCACAGAGAAA GGGGGGA GAGAGAAAGGGAGGAAAAAACGACAGGGAAGAAAGACGAGAG $A G G G G A A A A C A G G C C G A C C A A G G G G G G A A A G G A A G G G A G G G A$
$A G G G G C C A A G G A T G G G A G A A A G G C C G G G G G G A G A A A G G G G G A$ A GACACAAGAGGGGGCCGAAGAAAACCAAACGGTTGAAAGGA AGGAAAAAAGGAACCAAAAGGGGGGAAAAAAAGAGAAGAAGA A A G GAA A GACCGGAGGAAGGAGAACCCCCGACATTGGAAGGA A A A G GAAAA A GAAAGAGGACCGGGGGGGGAAAACAAGAGAAA GAGCAAAGGAAGGAAAGAAAACCCCGGGGGGGGAAGAAACAA A A A A G A G A C A A A A G GCACCAAAAACAGGGCCGGCCCAAACAG GAGCCAGAGGGGAAGACGAAGCCGGAGGGAGGGAGGAGAGAG GCCGAAGGGAAGGAGCCAGAAAACCAGTAGAACBGCCGEGAG A G GAAGAAAGGGGGGGGGGACAGGGAAAAAAAAGAAAAAGAA GCAAAGAAGACAGAGGAGGGAAGGGGGAAGGCCAGGGGAAAA AA A G GACGAAAGAGGCCGAGGGCAGGACGAAGGGGAGAAAGA A G GAGAGAGCCGGGGAGAAAGAAAAGAACAAAAAGGGCCGGG GAAGGAACAATGAAAAACCGGGAGAAAAAAAGGCAAAGAAAA A A A G A A A ACAAAAAAAAAAAAGGAAAAGGAACCCCAAGAAAC AAGCCAAAGAACAAAAAAAAGCCGGAAAAAAGGCCAAAAGBA CAGAAAAAAGGCCGGCCAAAAGGCCGGAAGGAGAAGAAGAGG A A GA $\operatorname{A}$ GAA $A C A T A A G A G G A A A G A C A A A G A C C A A G G C A G G C C A$ $G G G C C A G A G G G A G A G A A G G A C A G G G A A A G G A G C G A A A A A A C B$
 $A C C C C G G C C A A G G G G G A A C C A G A G G A A A A A G G A A A A A A A A A G$ G G GA $\operatorname{G} A \mathrm{~A}$ TAAAAAAAGGAAAGGGGGAGAAGGGAAAGCAAGGGG $A G G G G G G A G G A A C A G G A A C A G A C G G T A G G G A G G C C G G G A G G G$ A ACGGGAAAAGAGGGGGAGGAAAAGACAGAGAAAGGAGAAAA A A A A A G G G A A TCAGAAAAAAAAGAGGGAAAACCATAAGAACG GAAAAAAGAAAGAAGAGACCCAGATAGAAAAAAAAGGAGGCG G G G GAGAGGAGCGCCAGGAAAGGGGGGGAAAGGAACCAAGAT TAAGAGGAAGAGGGAAGGAGAGGAGAAGGAAATAGAA
 A G GCCAAAACCAACCAAGGGGCAGGGGAACAAAGAGGGGGAG G G G A A G G A A G A C C A G G G A A G G A G A A G G A A A A TAA A A A A A A A G G G GAAAAAGAAAAAAAGCCGAAGACAAAAAGCCGGGAAATTG GAGCGAAGGCAAAGACCAACAACAAGGGGAACGAAAACAAAT TAAAAACAGAAAGAAGAAGAACAAAAAGAGGGGGGGBAGCAG
 $A G G C C A A G G G G G G G A A A C C G G G G C C A A A A G G G G A A G G G A A G G$ A GACAGGAAAAGGAAAGCAAGGAGGACAGAGAGTTAAGAAAG GAGGGCGAAGGGAAAAAAAGGAAAAGGGGAGGGAA GAAAGGG A G GAACCGGAAGGGGGGAAAGCCAAAGAGGGAAAAGGGGGGA G GAC $\mathrm{C} A \mathrm{~A} \subset \mathrm{~A} A \mathrm{~A} G \mathrm{G} C A A A A A G A G G A G A A A A C G G A A A A G G A G C A G$ GAAGGAGACGGGGCCAGGGCAAAGGAGGAAGGAAAGGGAAAAA
 CAAAGAGAAGGGGCCAAGGTAGAAGGGGATAAGTTCCGGACG G G G G G A A A GCCAGAACCAAAAGGAGAAGAGGAGAAGAAGAGA C G G G A A G A G T A A A G A G G G G G G G G A G G G C C A A G A A A A T G G G G A
 G G G A A A G A A C G G G G GACAGGGCGCCGGAACCGGGAAA GAAA G AAAAAAGACAAAAACAAGAAACAGGAAATCCAAGGAAC G GAA
 C T T G A A A G GAA $A \operatorname{GA} A G G G A G G G A G A G A A G G A A C C A A A A A G G G G$ G G GCCAAAAAAAGGGAAAAGGGGAACAAAAAAAGGGACAAAG AACAAGGAAAAGGGGAAGCGAAGGAGGAGAGAGGAGAAAAGG A A A A A A A G G G G A A G GAACCAAGGGAACGGAGA GAA G GACCGGG G G G G G A GCCGGCCGAACGGGAGGGGACAGGGAGGGAAAAAAG GCCAAGGCCGAAACGGAAAAGAAAAGAGGAAAAACGGAGGGG GAAAAGGGGGGAAGGAAAAGGAAAAGGAAGGGGGGAAGGGGG GAAAAGGGGCCAACCGGAAGGGGGGAACCGGGGGGAAGGGGC C G GAACCGGGGAACCGGAAAAAAAAGGGGAAAACCCCCCGGA $A C C G G A A A A A A G G A A G G G G A A G G A A G G G G G G A A A A A A C C G G G$

GAAAAGGGGAAAAGGGGAAAAAAGGGGGGGGCCGGGGAAAAA A A A C C G G A A G G G G G G G G A A A A G G G G G G A A G GAAAA A G G GAA A A A A G G G GAAG $A$ A A A G GAAAACCGGGGGGGGGGAGAGCACAAAA CAAAGAGGAGGGGCAGGAAGGGGGGGAGGAGAGCAGGAAAAG GCCGGGAGAGAGGGGAAAGAAGGAGAGACGGAGAAGAAAGAA G G G G G A C A G G G G G A A A A G GAGAGCCAAAAAGACAA AAAGGGG A G G A A A A A GCCAGAAGGAAAGAGGGGGAGAAAGAAAGA GAAG G G G G GAGGGGGAAGGAGGGCCAAAAAAAAAAAAGGGAAACAA AAAGGAAGGAAGGCGAAAACCAGGAGAGGAAGGCCAAAAAAA AGGAGGAACGGACGGGGGGGAAGACAGGAAGCCAGGAGGGAG ACCGGGGAGAGGAAAAAGGTTGGAAAAGGAAAAAGACAAGAA A GAAGGGCCCCAGGAGAAGGAAGGGGGAAGGAACCGAAAGAAA

 GAGGGGGGGGGAACCAAAGAAGGGGAAGGCCGGTTGGAACAA AAAGAGAAGAAAAGGGAAGAAAGAAGGGGAAGAAAAAAACAG GA $A \operatorname{G} G \mathrm{G} G A A A A A A A G A G G G G G G G G A A A A A G G G G G G G A C B G C C C$ CAAAAAAGGAAAAAGCCAGGGGGAAAAAAAAAGAGGGGAGCG G G A A A A G A G G A GAAGACAAGAAGAAAAAAAAAAAAAAAACAG GAAGGAAGGAGGGGGGGGGGGGAGGAAGGAAAGCGAGGAACA A A A A CAAAGAAAGCAAAGGGAAAAGAACCAAGGCCAAAAAAA ACCAAAAAACAGAGAGGAAGAGGGGGGAAGACGAAAAAAAGG G GAGACCAGACGAGGACGGACAGGAAGAAGGAGGAAAAAGAA A G G G G G GACGAGGAGAAGAGACCAAGAGAAGAGGGAAAGAAA CAAAAAAGAAAGAGGAAGGGGGGCCCCGGAAAAGGGGGAAAC GAAAGACGGAAAAAAGGAGGGAAGGGGCCGGAAGGAAGAGAA A A G G GCAGAGGGGAGGAGGAAGAAAAGCAAGGAAAGGGGGGA A G GAGGGACAGCAGGCAACGAGAGGAACCAAAAAAAGAGAGAA A G G G G G A C A G A C C A C G G G A A G G G G G G A G A A A C C T T A A G G C C A A G GAGGGACAAGGAAGGAAAGAAGGGAGGGGAAAAGGGAAAG GAA A A $\mathcal{A} G G G A A G G A A A A A G A G A A G G G G G G G G G G G G G A A A A A G$ GAAAAGGGGGGGGAACCAAAAGGAACCAAGAGAAAAAAAAAA A A A A A A A A A G GAA $A$ A $A$ GA A GAGAAACGAGAAAAGCCAGCAAA G G G G A A G G G G G G A A A A A A $\mathcal{A} G G G A A A A A G G A A G G G G A A G G A B A A G$ GAAGGTTGGAAAAAAGGGGAAGGAAAAGGAAAACCAACCCCC C GAAAAGAGAGGGAAGGAAAAAAAGAGGAAGGAGGGCCAAAC $A C C A G A A G G A G G A G G A A A A G G A A G A G G G G G G A G G G G G C A A A G$ GAACCAAAACCGGAAAAGGAAAACCGAAAGGACCCGCBACAG GAAAAAGGAAAGAAGGGCCGAACAAAGAAGGAAAAGGGAGGC $A G G C C G G A A G G G G G A G C G G A G G A A A G G C A A A G A A G A A G A A G A$ A G G G A A GAA $A \operatorname{A} A G G A G A G A A G G A G A G G A C A C A A A G A G G A A G A$ A A A C C A A G G G G G GCC G G GAAAAGGGC GAACAAGAACC GAA G G G G G G GAAAAGGAGCCGAGAGGAAGAGAAAAAAGCAAAAAGAA $A G G G G A A G G G G G G G G G G G G A A G G A G G G G A G A A A G G C A A A G G G$ A $G G G A A A A A A A A A A A G G G G G G G A G A A G G G G G A A A A A A A A G A A G$ $G G A A G A A G G G G G G A A G G A A G G A A A A G G A A A A A A G G A A A A G G G$ G A G G A G A G G A A G G A G G G A G A A G A A TAAA G G C C G A A G G G G G G G G G GACCAAGAAGCAGGAGGGCCAAACGGAAAAAGGGGGAAAAA A G G G GCCAACAACAAAAGGGGAAGGAAAAGACAACAAGGGGG GAAAAATGGAAGGAAAGGGGAAGGGGGGAGGGGGGCAAAGAG G G G C A A G G G G G A G A A G GAGAGAGAGGGGAAGAGACGGAAAAA A A GCA $A \operatorname{AGGGAGGA} G G A A G G A A G G A A G G G G A G A A A C G G A A G A A$
 G GAAGAGGAAGGAAGCAAAAAGGAAAAAGAAGGAAG GAACC T TAAATGGAAGGGAGACCGGGGGAAAAAAAGGGGGGGGGAGAG GAAGGAAAAAAGGGGAAGGAAAGAAGGGGCCGGGACCGGGGA TAAGGGGCAAACCCAGACCGGGGGGAAAAAAGGCAGAAAGAC A A G G A G G A A A A A GAAGGCCACAACCAAAAGGAAGGAAGAA GA AAAAAGGAAGGAAAGCACAGGGGAAATGACCGGCCGGAACAG

GAAGGAAGGAGCAGGAGAAAGGAGGCCAGAGGGAAAACAAGB C G G G G G G G G A A A A $\mathcal{A} G G A A G G G G G A G G A G G G A G A A T A G G B A G A$ AAGGAGGGGGGAAGAGAAGGAAAAGAAAAGGAGCCCCAACAG AAAAGAGAAGGAGAGAAGGGAAAAAAATAAGGAACGGAAAAC $C \subset C A A A C G G G G A A A A A A A A C A A G A A A A C C G G G G G G A A G G G G G$ CA $A$ A $\mathrm{C} G \mathrm{G} A \mathrm{~A} A A C C G G G G G G A A A A G G G A A A A A G G G G A A A A G G G$ G GAGGAAGAGGAAGGAGAGGAACAGGGAAAAAAGGAAGGCCG GAAGGAAGGAAGGGCAGAAGGAAGGATAAAAAAAAACGAAGA GCAGGAGAAGAGAAAAGCCAGGAAGGAGGAAAAGGGAAAAAC $C \subset C A A G G G G A A G G G G G G G G A A G G G G G G G G A A G G A A A A A A A A G$ G G GAA $A \operatorname{G} G \mathrm{G} A A A A \operatorname{A} A A A G G C A G G G A A G A C G G G G G G A A G G A G G$ GAACCCCCAAAAGCAAAGGAAAAAAAAGAGGAAGGAGCAGGA GAAAGGAGGAAGAAAGGAGAGGGGGAAAGAAACAAGGCAGGG GAAAAAAGGCCGGGAAGAAAAGACCAAGGAGAAAAAAGAGGA GTTGGGAAACAAACACCAATAACGAGAGGAAAAAACCGGGGG $A C C G A A G A G A A G G G A G G A T A C C C G A A A G G G G G G G A G G G G A G G$ GCAGAAACCACAACCGGAAAACCAAGGGGAGCAGGGGGAAGG $A C C C C A A G G G A A G C C G G T T G G G G A G A G A G G A G A G B A A G G G G G$ A GACAAAGGCCGAAAGAGGGGAGAAGACAAGCGGGGAGAGGA A G G A A C C A A A ACC GACAAAGGAGCCAGAGCCGAAGACGAGGA ACCAAGGGGAAGGCCAAAAAAAAAAAGAAAAGGGAAGAGCCG A A A A ACCAA $C$ G G G GAAAGAGCCGGGGGGAGAAAAATAGAAAAG GAAGAAGAAAGAGAGGAAAAGAACCGAAAGGGAAAGGCAAAG G G G G A A A G G A G A G G G A A A A A G G GACTTGAGAGAAAAG GAAAA $G G A G A A A G A A A A G A A A C C C G A G A A C C A A G A G G A G G G G G G G G G$ GCAAGAGGGGAGAGAGAAGGAGAGAACAGCAAGCGGAGGGGA G G GAAACGAAAGGGGCAGAGGCCGAGAACAGCCCCGAGAAAG G A A A G A G T T A A G G A T A C G G A C A A G G G G G G A A $\mathcal{A} A A G G G$
 $G G A A G G A G A G G A A C G G G G A A A G G A A G G A A G A A G G G A A A A C A G$ G G A A A G GAA $A \operatorname{GGG} \operatorname{G} A A C C A A G A G A A G A G G G G A C C G A G G G A G G A$ G GGCAGGAAAAGGCCGGGGGGAGCCAAGGAAAAAGGACAAAA CAAA $A$ A A T TAA $A$ A $\operatorname{A} A A G G G A G A A A A A A A G C C G G G G G C A G B A$ A A A A A A A G G G G A GAGGGGGGGGGACGAAGGGAGAAGAAGACA GAAATAGGAAGAGAAAAAAAAAAAAGGGGGGAGCCAAGACCA A G G G GCCGAGGAAAAGGGGGGAAGGAAGGACCCAAGGGAAAA A GAAC $A \operatorname{AAA} A G G \operatorname{A} A A A G G G G A G G A A G A G G G G A G G G G G G C C G B A$

 G G G A A G G A A A A GAA A G GAAAGGAGAAGAAGGAAAA GAAAA GA GAAGAAAACGGGAAGCAAGAAAGCAAGGGGGAGAGACGGGGG GCCAGAAGGGGCAAAAAGGAGAAGAGGGGGAAAAAGAAAGAG AACACACAGAGAGTTGGGAGGAGCCAGAGGAGGAGGGGGGGC CAGAGGGAAGGAGAGAGCAGGCCGGAAGGAAAAGGGGAGAAA $A G A A A G G A A G G A A A A C C G G G A A A G G G G G G G G G G A A A G A A A A A$ G G GCCACGGGAAAGGAAGGGAAAGGCCAAGGAGCCGAAAGGB GAAGGGGAAAAGAAGAGAGGAAGACAGGGGGACGGAAGAAAA
 GAGGGAAAACCCCGAGGGAGGGAGGGGGGAGGAAGCAAAGGG $G C C A C G G A A G G C C G G A A A A G G C C G G A A A A A A G G G G A A A A C C C$ CAA $A \operatorname{GAAAAAAAACCAAAAAAGGGGAACCAGAGGGAGGGAGG}$ GAAAACGGGAAAAGAGGGAAGAGGGGAGGACAAAAGAAAACB GAAGGGAAGCCCCGGAGGGAAAGGGGGAAAAGGAAGAAAAAA G G G G GAAAACCGGAGAAGGAAACAACCGGCCAAGGGGGAAC G G G G G G A G A A A C G G A G G G A A G G G G G G G G A A A C G G G G C C G G A G G $A G G A A G A A A G G A G A C A G G A G G A A C C A G G G G G G G G G G A A G A B A$ $G G A A G A G A A G A G A G G A A A A A A A A G A A G A G A A A G A C G G A G G G G$
 $G C C A A A A A G A G A A C C A A G A A G G G G G A A A A G G G G G G G G G G G G A$

GAGGGAGAGTTGGAGACGGGAAGGACCAAGAAGAAAAAAAAG
 GAAGGCCAAGGGGGGGGCCGGAAGGAAGGCCGGAAAACCGGG
 A G GAAAAGGCAAAAAAAGGGGAAGGGAAAGAAAGAAAAAGGT T G G A A A A $\mathcal{A} G G G G G A A A A A A G G G G G G G G G G G G G G A A A A A A G G G$ GAAAAGGAAGGAAGGAAAAAAAAGGCCAAGGAAGGGGAAAAA A A A A A G GAAGGGGCCGGGGCCGGAAGGAAGGAAAAGGCCGGT TAA A G A A C C G G G G A A A A A A A A G G G G G G A A C C G G A A C C G G G G A A G G G G A A A A A A A A C CAAAAGGAAGGCCGGAAGGAAAAG GTTC CAAAAAAAAAAGGAAAAAAGGAAAAAAGGCCCCAACCAAGGC CAAAAGGCCAAGGGGGGGGAAGGAAAAAACCAAAAGAGGGGG $G C C G G A A A A A A G G A A G A A A G A A G G G A C A A G G G G A A G A G A A A A$ ATAGAGGAAAAAAGGGGAAAAAAAGGAAACCAAAAAAGGGGG GAAGGCCGACCAAAACCAAAAACAAAAAAGGGAGGAAGAAAG G G GAGGGAACCAAAAGGAAAAGGGGAACAAGGGAAAGAGCAC A G GCCGGCCAAGGGAAAAAAAGGCCGGGGAAAAAAAAAAAAA AAAGGAAAAGGCGGGCACCAGAAGGGGGGAAGGGGGAACABA $G C C A A A G G A G A C C C C A A A C C G G A A A G A A A G A A A C C A A G A G A G$ A A A G A A A A A A G G G A G G GCCCCC CAAAGAGGGGGGGGAAAAGAA GAGGAGGGGGGGGGGAAAATTGGGGGACAAAAAGGGGCAAAC CAAGGGAGGAAGGAATTAAAAAAGGAAAACCAAGGCCACAAA A A C G G A A G G A A A A A G G G A A G G G G C G G G A G C A T A GAAAAAAA A $G G A A A A A A G G G A A G G A G A A G G A G G G G G G G A C A G A A G A G A A G B$ A G G G G G G G G G G A G A A G G G G G G A A A A C C G G G GACA A A A A CAA A $A C C A A G G C C C C G G G G A A A C A A G G G G A G G G G G G C A G G G A A G G G$ G G A A A A A G G G GAGGCGGAGGGAAAAGGAACAAA GGGGCCGGG G G GCAGACAAAGGGGCCAAGGAGAATAAAACAGCAAAGAAAG G G A A A G G C G C A G G A A CACAACAAAAAAGGGGAAAAAAGACCC CACAACAAAGGAAAAGGAAGGGGAAAAGGAAAAAAGAAAAAC CAAGGAAGGGAAACCGGAGACAAGGAAGGCCGGGAGAAAAAG GAAGGCCAAGACCAGGGAAAACCGGGGGGGCAGAAGAACTAG

 C G G G A A A G G A A A A A A A GCAACGGACAGGGGAATCAAAAAA GA
 A G GAAAACCAAAAAAAAGGAAAAAAGGGGCCGGGGGGGGCCG GAAAAAAAAGGGGGGGGGGGAGAAAAAGGGAGGGGGGAAAAG AAGAGAAGGCCAAAACCAAACAAACCCGGCCAAGGAAAAAAG G G G A A GA G G GACCACAAAGAAGGGGGAAAAAAGAA GA GAA G G GAGAAATGGGACCGGGGGGGAACGGGGAAGGGGCCACGAAAA A A A A A G A A CAGGGGGGAGAGGAGACGGGGAACAAGAAACAAA GAAGGAGGGAAGGGGCGAAAAAAGGAAGAGGAGGGAAAGGGA $A C A C C A A A A G A C A G G A A A G C A A G T A G A A A C C A G G A G A A G A C G$ ACAA $\mathcal{C} C \subset A A C C G G A A A G G G G G A G G G G G A A G G A A C C G B A A T T G$
 G G G A A A A T T G G G GAA $A \operatorname{AGGGCCAACCCCGGAACCGGAAGAAAG}$ G G G G G A A A A G G G G G G G G G G A A A A G G G G G G G G A A G G A A A A G $G A$ A G G G G G GC CAA $A \operatorname{A} G A A G G A A A A G G A A G G G G A A A A G G A A A A G G A$ AAAGGGGAAAAAAAAAACCAAGGAACCAAGGGGAAGGAAAAG GAAAAGGGGGGGGGGCCGGAAAAGGAAGGGGGGGGAACCGGG G G G A A A A G G G G A A A A A A A A A A G G G G GGAAAAAAAAA G G T TAA A G G G A A A A $\mathcal{A} G G G G G G G A A G G G G A A C C A A C C G G G G G G G G C C C C B$ G G G G G A A G G A A C C G GA A G G G G A A G G G G C C A A G G G G A A G G G G A A A A A A A A A A G G GAGGAGAGAGGGAAGGAGCCAAAAAAAAAAG G G G A A A G G G A A G G A A A A A G G GAGGAGAGAAAGAAAAGAAAAG A G G G A A A A T G A A G G A G GAACGGGCCGGGACAAAGGGGTXGAA A TAG $\operatorname{T} G \mathrm{G}$ GAGAGCAACAGAAGGCAGAGGGAAAAAGGGGAAACB G G G G GAGGGGAGAGGAAGGGAAACGGACCAAGAAAGAAACCC
$C \subset C G G A A G G G G A A G G A G T T A A A A C A A A G G G G C C G G G G A A G G A$ A G G A A C C A A G G G G G G G GAACC G G A A A A G G A A A A A A A A A A G G A A A A A A A A A A G GAACCAAGGAAGGAAAAAGGAAAAAGGGAAAG G G G G GCCGGAAAACCGAGGCGAGGAGGAACCAGAGAAGGGAG G G GAGCAGGAAGGGAAAAAGGAAAAACGAAAACCAGAA GAAA GAAAAGGGACCGGCCCCAGAGGGGAAGAACCACCAGGAGACB GAGGGAACCCACAGGAAAAAGAAGGGGAGCCGGGGGAAAAGA G GAGAGAAAAAGGCCAAAAGGAAGGGACAAGAGCCGGGAAAA $G C A A A C G C C G A A G G G G G A A C G G G G G A G A A G G T T A A G A A G A A G$ GAAGGAAGGGACCGAGAGAGGGGGGCCGGGAGGAGAAGGGGG G G G G G GAA $A \operatorname{GA} A A A A A C \subset A G G G G G G A A A A A G G A G G G A A A A G G A$ A A G GAGGACAAGGGGAACAGAAGAGGGAAAGGAAGAGGGCAC C G G G G G G C C G G CAA A A A G G G GAA A G G G G G G GAAAAAAAAACC $A$ G GAAAGGCAGGCCAGAGAAGGGGTTGGGGGGGGAAGGCAAGA G GAAAGGCCGGAAAACCACAGGACCGGGGAAGGGGGGCAAAA AAAGGCCAAAACCAGAGGGGAGGAGACGAAAGAAAGAGAAAG GAAAACCGGAAAGAGCAAAGGGGGGGGAAAAAAGGCCBAAAC CATAAAGCAAAAAAAAGCCGGACAAGAGGCCCAGAACGAGGC $C G G G G A G G A C C G G A A G G A A G G A A G G A A A A C C A A A G A C A A G G G$ G G G G G A A A A $\mathcal{A} G G G G G G G G G G G A A A A A A C C A A G G A G A G A G A A A$ GACGAAGAACAGGGGAAGGAAAAGAAAAGGGAAAAGAAA GAA $A C C G G G G A A G G A A A A C C G G G A G G G A A G A A G G A A A A G A A A A G A$ AAAAAAGGGGGGGGAAACAGAAAAGGACAAAAGAAGACAGAA AAAGGAAAAAAAAAGGGAGAAGGCCAAAAAAAAAAAAAAAAG GCCGGAAAAAAAAGGAAGGAAAAAAAAAAAATTGGGAAAAAA AAACCAAGGAAGGAAAAAAAAAAAACCGGAAAAGGAAAAAAA AAACCAAGGAAAAGGGGGGGGGGAACCGGCCGGAAAAAACAA A A A C CAACCAAAAAAGGGGCCCCAAGGAAGGAACCGG
AAGGAAGGGGCCAAAAAAAAGGGGAAGGGGGGAAAAGAAAA A G GAAGGGGGGAAGGGGCCGGCCGGAAGGAAAAGGAAAAAAG $G C C C C A A A A G G G G G G G G A A C C G G A A C C G G G G A A G G A A G A A A G$ GAAAAGGAAAACCGGAAAAGGGGCCAAAAGGAAGGAAAACAC CAAAAAAGGAAGGGGGGGGAAGGGGGGCCAGAAGGCAGAAGC ACCAGCCCCGGAGAAGAAAAGGGCCGGGAGGGGAGAAGAAAG GAAAAGGAAGGAAGAGAGAGGCCAGGGCCAGGGCAGGAACAC CAACCAAGGCAAAGAAAAAGGGGGGGGGGAGAGGACAAACAC C C C G A A A G GCC G GCCAGGGCCGGGAAAAAAAACAAAGGAAGA GAAGGCCGAGACGAAAGGAGAAAGGAAGGGGAAAAGGAGAAA ATAAGGAGGGGGATTCATACAAAAACCAAAAGGGGAAGECAA A GACCAGGGAGAAAAAGGAGGGGAAGGGGACATAACCCAGAC CAAAAAGGGGGAGGGGGGGAGAAGGAAGGAGGAAAGAAAGGA A G G G G G G C C G G GAA A $\mathcal{C} A A A G A G G A A A G G G G A A G A G G G A A A A A A$ AGAGGCCGGGAGAAAAAAGGGGGGAGAAAGGCCAAGAAAAAA AACGCAAAGAGGAGGGGAGAAAAAGAGGACCGGAAGAAAAAA A A GAAA A G G G A A G A A G GACAGCAGGGGGGGGGGGGAGAAAAG GAAA $A$ A A A A G G G G G A A C G G G G G A G G G G G G A G G G G A A A G C A C C G GAAAAAAAAAAAAGGAACAAAAAAAGGGGGAAAGAAGGGGAG GAAAGGACAAGAGAAGGAAAAACGACAGAAGGAGAAGGGGGG GAAAGAGGGAAAGAAGGGATTAGCAGAGGGGAAGAAACAGAG A A A G G A GCCGGAAGAAGGACCAAGGAAGAAGCCAGCCAAA GA A G G A G GAA A A GAACCCAGGGGAAAGGGGAGACAGAAGAAGGG $A G G G G G A G G G G A G A A G G G A A A A C A G G G A G A G A G G G A G A A G G A$ A G G G G G A A A A A GAACAGCCAAAAGGCCGGAAAAGGGGGAAAA
 G G G G GAGGAAGGGAGAAAAAAGGAGGGGGAAAAGGGACAAAG G G G G A A G T T G A G G C C G G G A GAAAAGGGGGCCGAGGAAAAAAA A G G G GAACCAAGGAAAAAAAACAAAAAGGAAAAAAGCAAAAC ACCAGCCGGGGGAGGAGGGAGCCGGAAGGAAAGCCCCAAGAC $C A C A G A G A G A A G G G G G G G G A A G G A A A A G A A G A A A A A C G G C C C$

CAAGAGCAAGGAAACCCAGGGTAAAGGAAGGCAGGGGAGCCA A G G A A A A G GA G G GAAAAAAGGAGGGAAGGGAAGACCAA GA GA G GAAGCCAAGGAAGGCCGGAAGGGGCCGGAAGAACGAGBAAA $A C C G G C C A A C C A A C C A A G A T T A A G G C C A A G A A A G A A A G G C G G$ G G GAGAGGGAAAAAAAAGGGGGGGGGGGGGGGGGGAAAAAAT TGAAAAGAAGAAAAGAGGGGGAAAAAGAAAAAAAGGGGAAAC C GAGGGAGAAAGAGGACAGCAGAGAGAGAAGGGGGGAGAGGC AAAAGGGGGGGCCAAGGGGGGGGAAGGCCGGCCGGAAGGGGA
 GAAAAGGGGAAAAGGCCAACAAAGGGGAACCGGAGAGATCCA GCACAAAAAAAGAAGGGAAGGGAAAAAGGAGCAGAAAAAAAA A G GA $A \operatorname{GAA} A A G G G C \subset A A A A G G A A A A G G G G A G A G G A G A A A C A A$ A A A G G G G A A A A C C G GAAAGGGCAGGAGAGGGAGAAAAAAA G T TAAAAAAGGAAGGGAGGAAGAAGCCCCAGAGAAAAAGAGGAG $G G A C C G G C A G G A A A A A A G G A A C C G G G G A A G G A A A G C C G G A G G$ G G G GAAAGGAGACCCGGAGCCAAGGGGGGAGAAAGCCGGAAA CAAAAGGAAGGGAACGGAGAAGGGGAAGGGGCAAGAAGGGGA A GAGAAGGAAGAACCAACCGGAAAAGGAAGAGGAAAAAAAAA $A C C A G G A G A G A A A G G C G A G A A G A G A A G A A G G G A A A A A G A A A A$ ACCAAGAAGGACCCCGGGGAGAAGAAGAGGGGGAGAGCAAAA GAAGGAGGAGGGGAGGGAGAGAGGGGGAGAGGGCCAGCAAAA A G GAAAAAGGAAAGGAAGGAGAAAACCGAAGAGGGCCAGAGG GAAG $A \operatorname{AA} A G G G A A G G G G C C A G G A G A C C A G A G C C G G A A G A A A G$ GAGAAAAAAAAAAGGGAACAAAAAAAAAACCGAAGCCBGACB A A A G G A G G A A A GAA A G GACGGAGAAAAAAGGGGCGGGAACAA A A A A A A A A G GAAA $A \operatorname{Ag} \operatorname{A} G A C T A G A G A G G G G A A A A G G A A C A G G A$ A G G G GAA $\operatorname{A}$ GAAAAAAAAAACCAAGGAAGGAAGGGAAAAACAC
 AAAGAGGAGAGGGGAAAAAGGCGAAAGAACGCCAAGGGGAGG GAAAAAAAGGAAGGAAAGATTGGAGAAAAAAAAAAGGAAAAG G G GAA $\operatorname{A} A A C A A G G C C G A G A A A G A A G A C A C A G A C A A G A A A G A G$ A G GAGCAAAGGGAAGAGAGGGGGGAAACCGGAAAGAAGGGGA AAAAGGACAAAAAGGAAAAAAGGCCAACGGGGGAGGACACAG G G G G G A A A A A A A G A G TA A A GA G A A A A TAAACAACCGGCAAA G
 TGAAAGAGGAAGAGAGGTAAGAACAAGGGAAGACCAAAAGAA
 A GAGGAAGGGGCAAGGAGGAGAAAACAAGAGAAGAGGGAGAG
 C GAA A G GCCGAGGAGAAAGGGAGAGAAGAAAAAAAGAAAAAG G G G GAGGAGGGCCAAGGCCGGAAGGAACAGGAGAAGAAAAAA $A C C G G C A T A A A G G G A A A A A G G G A G G G G G G A G A A A A A G G A A G G$ G G GAACAGAGAAAAGCCGGAGCCAAGGACAGAAAAAGCAAAA G G A G G G G A G G G G G G G A A G G A A A G A A A G C C G GA G A G G G G G G G A GAAGGTTGGGGGAGGGGGGAAAACCCCAAAGAGAAAACAGGA A G G G G GA $\operatorname{G} A \mathrm{~A} A A A A A A A A G G G G A A G G A G A G G G A G A A G G A G A A A$ AAGAGGAGAGGAACACCAGGGAAAAAAAAGGAGCCGGGAGAA A G GAAAGCCAAGAAAGAAAGAAGAGAGACGAGAAAAAGAAAA AA $\operatorname{A} A A C A A A G G G G G G A G A G G G A A A A A A C C G G G G A A G G A A A A G$ G G A G G G G G GCC G G G A A A C G CA $\mathcal{A} G G G G G G G A A G G C A C A C A G A G$ GAAAAAGCACAGGGAAAAGAAAAGGGGGAGAAAGAGGAGAAA AACGAGAAAAAAAGACCGAAGGGAAGAGATAGGACCCATAAA G G A C C G G G G G A A G C C G G A A G G A A G A A A A G G A T T G G A A G G G G G G GGCAGAGAAGGGAGGGAAAAGAAAAAGGGGAAAAGAAATTC CACAGGGCACACCCCGGCCGGGGGGAACCGGAAAAAAGGGGA A G G G A G G A G GACCACGGAACCGGAAGAAGAAGGAA GAGAAA G
 G G G G GCC G A G G A A G G A A A A GA $\mathcal{A} G G G G G G G G G C C T T A A G A A A G$ GGAAGCAGACCCCGGAGGGGAGGGGCCAACCAAGGAGAAAGG

GAGTAGGAAGGAGAAAACAAAAAAAGGGGCAAAGGAGGAAAA GTTGAAAAAGGAAGGAAAAGGCAGAAAGGAAGGAAGGGAACA G G G A A A A G GCCCC C GAGGGAAGAACCGGCCAAAAGGCCAAACA G G GAAA A G GCC GAA A A A G G G G G G G G C C G G G G G G GA G GA G C A A A G G G GAA $A$ A $C A G G C C G G A G A A A G G G A G A A G A G G A A G G G G G G G$ GAACCAAGGAAGGAAGGAAGGGGGGGGAGGGGAA$G G G G G G G G$ GAGAATTAAGGAAACGGAAAGACAAAAAAGGAAGAAAGAAGG GAAAAAGCCGGAAAAGGAAGGAAGGAAGGAAAAAAGGCAACG A G A A G A G G G A G A A G G G GAAAGCCGGAAAAGGAGGBAAAAAA G GAAGGAACCCAAACCGGAAAGGGGGACAAGGGGGGGGGGAGG GAA A A A A G GAGGAC GAGAAGGGGAGAGAGGGGGAAAGAAGGG
 A G GCAC $\mathrm{C} A \mathrm{~A} G \mathrm{~A} A \mathrm{~T} A C A A G A G G A G G A A A A G A G G G G G G A G A A G A$ G G GAAAAGGAGCCAAAAAAGGGGAAGGAACCAAAGAAAGAGA GAAGGGAGGAGAGGGCAAAGAAAAGGGAAGGAAAAAGAGGGC A GAAAAGACGAGAAGAATTAAGGCCGGCCAAGGAGAAAAGAA
 A G G A A A A G G A A G G G G G G G A G G G G A A A G G G A A G G G G G A A A G A C A G GCGAGAGGAGAAAGGCCGGGGGGGATAAAAGGAGAGAAGAC
 GAGGAAAAAGGAAGGAGACGGCCGAAGGAAAAAGGGGAAGAA G G GAAAAGGAAGGGGAAAAAAAAGGGGAAAAAGAGGGAAAAA G G G G G A G A C G G A G G A A A G G G G A G G G CAC C G G A G A G G G G A G G G A GAAA A G A A A A C C G GAAAACCGGGGCCGGAGCAGAAGAGGAA GAAGGGGGGGAGGACACACAAAAAAAAAACCAAGGAGGAACA GAACGAAAGGAGAGGAAAAAGACGACAAGAGCAAAAAGGGGG A G GAGGAACAGGAAGGGAGGGCGCCAAAAAAGGAAGGCAGAA

G G G G A G G G G G G G A GAC $\mathcal{A} G G G A A G G G G A A A G A G A G G G A A G A G$
 G G G G G G A G G A C G A C C A A G G G A G G G G A A G G C C G G G G A G G A G A $G$ GAGAACCAGGGAAAGAAGAGAGAGAGGGGGACCGGAAAAGGA A G GAGGAGGGGAGGACCAGACAAAAGGAAAAAAAAAAGGCCG GAAGGAAAAGGAAGGGGAAACAAAAAGAAAAAAGGGAGGGAA GAACCAAAAAACAGGAGGGGGAAAAAAAGAAAGAGGGGGTAG $G G G A A A A G G C A A G A G A G G A G G A G G A A A G G A A A A C C G G C A A A B$ G G GAAAACCAAAAAAGAGAGAGGGAGGGGGGAGAGAGGAGAA A G GAGCCAAAAGAGGCAGACCCCAGAGAGAAAAGACCAAAGAA C C C A A G G G GAAAA A G GAGCCGGCAAGAAAGAGAGA GAGAAGGC A GAG G A A A A C A T T G A A GA GAA G GATGAGGGGAC G G G G G G G G C A GAAAAGGAGGAAGGGGGGGAAAAAAGGAAAAAGGAAAACGAA G G G A A G G A A A A G G A A A A G G GAGGAAAGGAAGAAGGAAAACAA A ACGGAACCAAGGGGGGGGGGCCAAAAAAAAAAGGGGCCGGG G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G A G G G G G A A A A A A G A A A A G G G G G GAA A A GA G GA G GAA $A$ GACGGACAAGGAAAGGAGGGAGGGGAATTGGGGAAGGGAGAA GAGAGGGGAAAGACCGGAAAGGAAAAAGGGGAGAACACAAAA G GAAAAGGAAAGGAACCAAGAGGGACACCGGGGAAAACAAAG A A GAA A C G G G G A A GAGAAAGGGGGGGGGGAAAAGGCC GAAAA AAAAGGAGGGGGAAGAAAGCCCCGGAAAGGAAGAAAGGAAAG A GAAACAGGAACCGGGAGAGGAAAAAGCCAAGGAAAAGAACA C GAGAGAAGGGGGGGAAAGGGAAGGGAAAGGAAAAAAGGAGA A A G A $\mathcal{A} A A C C G G G G G G G G G G G G A A A A G G G A A A A A G G A G A C B A G$ AGGGAGGGGAAGGAAAAGGGGAAAAAGGGCCAGAAGAAGAAA A G A A G G A G G C A G A G G G G A G C C A A A G G G C C A G G G G G C C G G G G G

 A G GCC C A G A G G A A G G A A A A A A A A G GAA A G A A G A A G A G A A A A G G G G GAGGAAGACCAACCGGGGAGCAAAAAAAGAGGAAGAAAG

A A A A A A G A ACCAAAAAAAGAAAAGGAAGGGGAAAGGAGAGGA A A A A A A G G G G GCA GACCAGGAGGCCCAAAGGGGGAAGAAGAA $G C A A A A A A A G A C C A G A A G A G A A A C A G A A G G G A A G A C C G A A G G$ $A C C A A G A G A G G G G G A A G G G C C G G G G G A A A G G G A C A G G G A A G A$ A G G G G G G G G G G A A A A A A A A A A G GCCAA G G G GCGGGGAAAAAA C G G G G GAGAGGGGAGAAAAAGAGAGGAGGAGAAGGGGAAAAA ATTACAGAAAAAAGAAGAGGAAGAAAAAAAGGGGGGAAAGAA
 GAAAACCAAGGGAAAGGAGAAAACCAAAAAAGGGGGGGGGGC $C A G G G A A G G A G A G A G G A A G A A A A G G A G A A A A C C G G C C G G A A A$ A A G G GAACCGGGAGGAAAAGGAAAAAAGGGAACGGGGAGCCA G G A G A A A A GA G G G A A A A G G A C G GAGAAAAGGGGCCCACACAA A GAA $\operatorname{GA} A \mathrm{G} C \mathrm{CAACCAAAAAAGGAGCCAACXGGAACCGGAGGGA}$ G G G G G G G C C A C A A G GAA A GAGCCAAGGAAGGGGAGAAGAAGA GAGAAAGGAAAAAACAAGAAAGGGGGGCCAGGGAGGGCAAAG
 AAAGGGGCACAAAGGAAAAGGGGAAAGAAAGGAGAAGAGGGC A A A A A A A A A A A GAATA $A$ AAGAACCCCGAAGGGGGGGGGGGGGG AAAAGGGAAAAAGCGGGACAGGAGAGGGAGACAGCAAGACAG G G G A A A A A A C A A G A GAGGGGGAAGGGGAAGGAATTAAAAAAA AAAGGGAAGAGGGAAAAAGAGGGGGGGACAAAGCCGAAAGAA AAAGGGGAAGGAACCGGAACCAAAAAGGGGAAATTAAACCCG A A A C C A A G A G G A G G A A A GAATCCACAAGGGAGGAAACTXGGG GAGAAGGAAAAGAAAGGAACCAAAGGAAGAGAAAAGAAAAAC A G G A A A A G G G G A A G G G G A A G G C C G G G G A A C CAA A G G G A A C C C C GACAAAGGAAGGAAGGAAAGAGAACAAGGAAA GAGACAACC ACAGGAAGGAAAGAAAAACGAAGGAAGGCAGAAAGGGAAAGG G GAGAAGGAAGGACCAAGAACAGAGAAACAGCACACAAACAA A G GCCAGAAGAAAGGGAAAAAGGGGAGGACCGAAAAAAAGAA GAAAGAGAAGAAGGGACGGGAAAAAGAGGGGGACCGGGAGGC CAA $A \operatorname{GGG} \operatorname{GA} A A T A G A G A A G G A A C C G G A G A G G G A A G G A A A G A G C$ A G G G GACGAGAAGCAAGGGAGGAGGGAAAGAGAAACAAAAAA A G G A G G A G G G G G G A A G G A G G A A A G A A A G G A A G G A A A A A A G G A C GAGGCCAGAGGACCCAGGGAGAGAAAGGGGAAAGAAAAGGG GAAAAAAGGGGCCAAAAAGAAAAGGGGGGGGAAGGGGGAAAA GAGAAAAAAGGAACAGAAAGGAAAAGGCAAAAAGGGBAAAAA A A A A A A ACAAAAACCACAAAAAAAAGGGGGGTAAGGAACAGG G GAGACCGGAAGGAAGGAGGGCAGAGGGAAGGGGGGAAAAAA G A G A G G A G A A G A G G G T T G A G G A C A G C A G G A G G G A A G G G G G A G
 AAGAAGGGGAACCAAAAAAGAGGAGCACAAGCCAAAGCGGGC A A G A A G G G G C C A A G G A C A G G A A G G G G A A A G G G G A A G G G G A A A AAAGGGGAAGACAATCAGAAGAGGAGGAGGGGGAAAGAGAAG GAAACGGGGAAACACAAAAAAAAAAAAGAACAGAGEAGAGBA GAAGAGGAAGGAAAAAAAAAAAGAGACAGAACAAGAGCAAAA A A A A A G G G G A A A A $\mathcal{A} G A G A G G A A A G G A A G G G G G G A A G G G G G A C$ $A G G C C A A A A A A G G G G A A A A A A G G G G A A G G A G A A G G G A G A G G G$
 $C C C T T G G A A A A G G C C G A T T G A G G G G A A A G A A C A G G C C G G A G G$ G G GCC G G G GAA $\mathcal{C} G C \subset A A C C G G A A G A G A A A C C G G G G G G A C G G G$ G G G A A G G A A A A A GCGAAGGCCGACCAGCCGGAGGAAGAAAAA G G GCC GAAAAGGGAAAAGGGAAAAAGAGGGGAA GAAGGAAA G G G G A A G G A A G G G GC C A G A A A A G GAGGGCCGGAAA GAA G GAA G GAAAGAACAGGCAAAAAGGGGAAAAAACCAAGGAAGGAACAC CAACACCAGGAAGGGGGAAGAGGGGCCGAGGAAAAAAGAAAG G GACCAAAAAAAAAAAACCCCAGGGCCGGAAAAGAGAAGGGA $A C C C A G G G G G G A G G G G G A A G A G G A A G A G G A A G G G G A A A C A G A$ G G G A A G G A GC G G A G A G G A A A A G G A A A G G GAGGACC GA GA A A A G G G G G G GAGAAGGAAGAAAGGGGAAAAAAAACCAAAGACAAG

G G G G GAAAGGAGGAAGGGAGAAAAGAACCAGAAGGAGAACCA G G GCCAAAGAAAACAAGACAGGAAAAAAAGGGGAAGGCAAAG A A A G A A C G G G G G G A G G G G G G G G G G A A A A A A GAA A GA G GAC C A A A A G G GAAA A A A G G G G GAAAACAGGGGGAAGGGGGGGGAAAA G G GAAAAACCCAACCGGAAGGAAGGCCGAAATACAGGGAAAA AAACCGGGGAAGAAACGAAGACACCGGCCAAAAAGAAAGAGG GAAAAGGAGAAAACCCCGGCCAAAGAAGGAAGGGGGGCCGGG GGGAAACCCCAGGAGAAAACAAAAAGGAAACCCGGAGAAAAG A G G A A C C G G G A A A G G A G G G C C G G G A G G A A A C G G A G G G G G G A G A G G G G G GAGAGGGGGCCAACATAAGGAGGGAAA GGAGGGGGC A G G GAA ACCCCGGCCGGCCGGAGGGGGAAGGGGAACAAAGAA GCCGGAGAAAGAACCGGGAAGAACCCCAAGGGGGGCCCAAAA A A A A A G G A A A A G GCCA $\mathcal{A} G A A G G G G G G G G A A G G G A A A A A C G G G$ A G G A $\mathcal{A} G G G G G G G G A A A G G A A A C A G G G G G G G G G A G G G A A A A A A$ AA $\operatorname{A} G A A G A A G G G A A A A A G G A G G G G G A G A A G G A A G G A A G A A G G$ AAAGGGAGAAAAAAGACAAAAGGGAGGAAGAAAAAAGGGGGG G G G A G G G G G G G G G G A G G A G G G A A A A G A G G A A G A A A G A G G G G A A G G A G A G A GAGGACAGAAAAAGGAAGGAAGGACGGGACAACB GGGCCAAGGAAGGGGCGAGAGGGCAGGAACCGGGAGAAGAGG GCCGGAAAAAAAAGGAGGGAAAAACAGAAAAAAAAAGAACCG G G G G GAAAAGACCCCACGGCCAAACGAAGAACAAGGAGGATA G G G A A G G G GAA $A \operatorname{GA} A A A A A A G A C A G G G A A G T T A A G G A A G G G G G$ G G G G G G G A A G G A A A GCCAAAAGGGGCCGGAGAGAAGAAAAAG G G G G G A A A G A A A G A A A A G G A A G GCCGGAGCCAAGAA GAAAAC C A A A A A ACCACACCAAAAAAAACGGGAAGAAAAAA GAGGGGA A A A A G G GCCA C G G GAACCGGAGGGAAGGAGAGAGGGGGCCAAG ACCGAGAAGAAACACAGAAAGAAAGGAGCAACCAAGGAAGAG GAAAAGGAAGGGAAGCCGGCACAGGGGGAGAAACAAG
G GCCGGACGGAAGGGGCGGAAGGGGCAACCGGGGGAAAAAG G G A A A A G CCGGAAGGCAGGGGGGGGAAGAAGGGAAAACAGBG GAGACAGAAGAGAAAGGAGGAAAGGAAGGAGGAAGCCAAAAA A G GAA A G GAGAGGACGGAAAGGGGGGGAAGGGGAAAGCAAAA A A GAGAGGGGGGGAACAAGAGAAGACCGAAGAAAGGGCAGAC CACAGAACCGGGGTTGGGAGGAAGAAAAGGAGGGGACAAACB A G G G G G A A A A A G G A A G G G G A A A GAGAGAAAAAAGGCCAACAA

 A A G G G G G G A A A G GAA A A A G GAGGCCGGAGGCAACCAGGGGGG $G C C A G A G G G C A G A G A G G G A G G A G A G C A G A A C C C A A A A A G A G G$ G G G G A G G G A A A A C G G G G G G G G A A C C C C A A G G G G G G G G A G C C A AAAAAGGGGAAAAGGGGCCAAAAAGAGACGGAGGGGAGAGGA
 $C G G C C A A A A G G A G G G G G G G A G G A G G A A C A A G G G A A G A G G A G G$ A GACCGGGGGGAAGAGAGGCCAAAACCAAGGAAGGCAAAGGG GAAAAAAAAAAAAAGAACCGGAAGGAAGGCCGGGACAAAAAA
 A G A A A A G G G A A G G G GCCGGGGAAGGAAAAGGAAAAGGCCGGA GCCAAGGAAGGGGGGCAAAAACCGGAAAAGAAGCAAGAGGGG GCCGGGAGGAACAAAAGGAGAAGGAGGAGAAAGGGGGGAAAC

 AAAAGAAA $A$ A A GAGAAGGGGAGAAATAGGAGGAAAAGGCCCCA GAGAAGATTGACCGGAAAGCAAGGAAACCAAGAAAAGGAGAG GAAGGGGCAGGCCGGAGAGAAGGAGGGAAGGAAAACCGACCA GCAGGAAGGGAAAGGGGAAAACAAAAGAGAGCAAAACCCGGA $A C C G A A A A G A A G G A G A G C C A A C C G G G G A A G G G G G A C A G A A A A$ A A A G G A A A A A A G G G GAA A GAAAGAGGGCCGACCATAACABAA GAGAAAAA GAAGGAAGGGGCCGGCAAGACGAGAAAAAGAAAA AAGAAGGACAGAAAGAGGGGGAAAAGGCGCCAGGAGAAAGAA

GAAAACCAAGGGGGGGAGTTAAAGAGAATTGGCCAAAAGGG A A A A A G G G A C C A A G GAAAAAGGGCCGAAAGGGGGAGAA GAAA G GAGGGGAGGGAAGAGGAAACGAGAAGAGAACGATACGAAGAG GAAAAAAAGGAGGAAGGGGAACCAGGGGGAAAGGGCCAGAAA A G GCA $\operatorname{C}$ GAAGGCCAAAGAGGAAGAAAGGGGAAAGACCTXGAG A A GACAAAAGGGACCAGAAAGAAGGAAGGAACCAAAAGAAAG GAACCGGGGGGAAAGAAGGCCAAGAAAAGGAAAAACAGGGAA $A G G C C A A G G G A C A G A G G A G G G A A A G G A A G C C G G G G G G A A A A A$ G G G G G G G A A A $\mathcal{A} G A G G A A A G G A A A G G G G A A G A G G G G G G A B A A G$ GGGAGAAAGAGGGAAAAGGCCAAGGAAGGAAGGAACAAAAAG GAA $A \operatorname{GAA} A A C C C A G A G G G G G G G G G G A A A A A A G G G A G G G A A B A$ A A GAGAACCGGAGGGAGGGGGAGAGGGGAAGAAGGGGACAAA G G G G GCCGGAGAAGGAGAGACAGGAAAAAAGAGGGGAAGCCA C G G A A G G A A G GCCAA $C$ G GAACCAACCGGGGAAAAGGAAAACAA $A C C A A C C A G G G A G A A A A C A G A C A G G G G A A A C A A G A G A A G A G G$ AA G G GAAGAAAAGACAGAGCCGGGAAAGGGGACAAGGACGBA $A G G G G G G A A A G A G G A A C G A A A G G G G G G A A A G A C G A A G A G G A G$ G G G A G G G A A G G A A C C G G A A A A G G C C G GAGCAGAA G GAA G G G G G G G G G G G G G GAGAAGGAGGAAGGAAAAAAGAGGGGAAAAGAA G GAGGGACAAGCCGGAAAACAAAGGTTGGAAGAAGGGGAAGA TCACCCAAAGGACAGAGAAGGAAAAGGAAGGCCAACCCAAAG GAGGGAAGGGGGAGAGGCCGGGGGGAAAAGGAAGGAAGAGAA A A A A G A A G G G G A GCA $\mathcal{A} A A A A G G A G G A G G C C A G A C A G A G G G G G G$
 CAAGGGGAGAGGGAAAAAAAGGGGAAGGGCAACAGGGAACAA AA GAAGGCAAACCAAAGAAGGGAGAAAAAGGAGCCAGGAAAG $G C \subset C A C C A A G G A A A A G G A A A G A C G G G G A G A G C C A A A G A G A G G$ A A A GAGAGGCCGGGGGGGGAGACGAACAGGGCCAAAGAGAGA A A GAGGAAGGAGAGAAGGGAGAGAACCGGGAAGGAAGAAGAG $G G A C A A G G G G A A C G G G G G G G A G G G G A G G G C A A G A A G G G A A A G$ GACGAGGAGAAGGAGAGAAGGCCGGAAGGAAAAGGAAAAGGA AAAGGAAGGAAAAAAAACCGGGGAAGGAAAAAAAAAGGGGGG A ACGGAAGGAAGGAAAATTGGGGAAAGAGAGAAGGAAGAAAG GAACCAAGGGGGGCCGGAAGGGGAAGGGGCCAGAGCCAGGAC
 GA GAAAGAAGGGACATTCCAGGAAAGGCCAGCCAAAAAAAAG GAGGGAAGGGGAGAGGGGCGGGGGGTTGGAAAAGGAACAAAG G G G G GAAAAGAGGAAGGAAGAGGAGAGAGAAAAGGAACAGAG GAACCAAACAGAGAACCGGGGGGGGAGCCAAAAGGGGGAAGG
 A GAGAAGCCAGGGGGACAAGAGACAAAGGAATTAAAACAGAA
 GAAAGGGGAAAGGGGAAGGCCGGTTAAGGGGAAAACCGGAAA
 $A G G G G A A G G C C A A G G A A A A G G C C A A A A G G G G A A A A G G A A G G G$ G G GCCAAGGCCGGGGAAGGGGAAAAGGAAAAAAGGAAAACCG G G G G G G G G GAAAAAAGGAAAACCGGGGGGGGAAGGCCAAAAC $C \subset C A A G G G G G G A A A A C C G G G G G G A A G G A A G G G G A A G G A A A A C$ C G GAAT TAA A G G GAAGGCCGGAAGGGGAAAAAAGGAAGAAAA AAAGGGGCCGGAAAAAACCAAGGAACCCCAAGGCCGAAAAAG GAAAAGGGGAAAAAAGGGGAAAAGGGGAAAAAAGAAAGGGAA A G G G G G G A A G GAAAA A $A \operatorname{AGG} \operatorname{A} A A A A A A G G A A A A A A A A A A G G C A A$ $A C C A A G G A A A A A G G A G G G G A G A A G A G A A A A A G G C C C C G A A A A$ A GAGGAGACAAGGAAGGGGCCAGCAGGCACCGGAAAGCAAAG GAGCAAAGGACAAAAGGGGGGTTGGAAGAAATAGAAGGGGGG $A G G G A G A G G G G G G T T A A G G G G G G G G A A A A A A A G A G A A G A G A A$ $G G A A G A A G G G G A G G A G A A A G G G G A T A A G A G A A G G A A G G A A A G$ G G A A T A C A A C C A A G G G G A G G G G G G G G G T A G G G G C A CAA A A A G GAACAAGAGAACCCAGAGGGGGACCAAAAAAGAAAAAGAAAA

GAAGAACAAAAAAAACCAAGGAAGAAACCGAGGGGAAGAAAA $A C C A A A C A G A C G G A A A G A A G A G A G A G A A G A A G G G G A A A G C A C$ C GAGGCCAAAGGAGAGGAGACGGCCGGGGGGGAGAAAGAAAA G G G G GAAAGAAGGCCAAGGAAAAAAAAGAGGAAGGGACAAGA GCACCGGGGGGGAGGGGAAAAAAGAAAAAAGAGGGGAAAAAA AAAGGGAGGAAAGAAGGAAAAAAAAGAGGCAAGCACCCCGGG
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 G G G G G A A A A G GCC C C G G G G G G A A A G G A G G G A G A G G C A G G A A G A GAGAGAAGAGGGGGGGGGCCAACAACAAGGAAAGGGAGAGC CAACCGGGAGGCCGGATGGAAGAGGAGAAGGAGAGAACCCCG GAAAAGAGGCAGGCCGGGAGAGGAGAGGGGGGGCCAACCGBA
 ACACCGGAAGGAGAAAAAACCAAGGAAGGAAGGGGGAAAAAA A A A A A A A A A G G A A GACAAAGGGGGGCCAACAGGAGAGAAAC G A A A G A A $G G G G G A A G A G G A A C C A A G G A G G G G G A A A A A A G G A G C$ GCCGGAAAAGGAAGGAGGAGGGGGGAAAAGAGAAGGAAGAAA A GAA $\operatorname{A} G A A A A G G A A G A A A A A A A A A C A A A C C A A A C C G A G G G G G$ $G C C G A C A G G A G A G A G C A G A A A A G A A G G G A A G G G G G G G A A A A A$ ACCAAAAGGCCAAAAGAAGAAAACCAAAAGGCACAGGGGGGG GAAGGAATTGGAGAAAAAACCGGGAGGAACCGGGGGAACAAA $A C C A A A A A G A G A A A A A A G G A G G G G A G C G G A G C C A A A A G A G A G$ G G GAAA A G GAGAAAAAAAAAAAACCAAGGAAACAACACCGGC $C G G T T A A G G A A A G A G G A A G G A G G G A G A G G G G A A G A G G$
AAAAAAGGGAAAGAAAAAGGAAAACCGGAAAGAGAGAAAGA GAGGAGAGGCCCCAAAACAAAAGGGAGGGAAAGAGTTAAAAA $A C \subset A G G G G G A A A C A G G G G A C C A G G G G G G G C G A G A G A A A A C A G$ GAAAAAAAAGAGGAGAGAAAGAAGGAAAAAACCAAAAGAGGG GAACCGGAGAAGGAAAAAAGGAAACGGAAAAAAGGAAGAAAG A A A A G G A A G C A G G G A A A G G A A G G G G A A A A G A G A A A G G A A G G G A CAG $\mathrm{A} G \mathrm{G} G \mathrm{G} G \mathrm{G} A \mathrm{~A} C A A A A A A G A A A A G G G A A G A G G G A G A C A G A A A$ GAAGGAAAAAACCACGAAAAAAGGGAAAAAGAAAACCCCGBAA A A A A A G GAGAGGAAACCAAAGAAGAAATAAAAGAAGGCCGGC CAAGGGGGGAAAAGGAAAACAGAGACAAGGAAGGGAAAAAAA A G GAC C G $\mathrm{A} A A \mathrm{~A}$ GAAAGGGGGGGGAAAAGGAAGGAAGGAAGAG GAGAAAAAGGGGAGGAAAAAAAGCCGGCCAACCAAGGAAGAA $A G G C C G A A G G A G A A G G G A A G G G G G G A G C C G A A A G A A G G A G A G$ GAGCCAAGGAAAAGAGGACGACCGGAGGGAAAAGBAAGGGGG A A A G G G G A A A A A A A G G GAGGGAGAGAAGAGGGGAAAAAAAGG GAAAACCAATTGACCCGATACAGGGGGACGAGACAAGAAGEG GAAA ACCAAGAGGAAAAGGGGGGAAGGGGAAGGTTACGAAAG A A GCCAAAAAACCGGGGGGAAGGGGCCGAGAGGGGCCABAAG GAGAGGAAGAAAGAAAGAGAGCCGGGAAGAAAGACBAAAAAG G G GACCCAAGGAAGGGGAAAAGCGAAGCATAAGGGAGAAGAG GAGAAAAGGAAGGGGGAAGGGGGAAAAGGGGAAAAAAGGGGG GCCGGGGCCGGAGAGAAAAAGAAAAGGAAGGAAAGAGGAAAA G G G A A G G A G G G A G A A G G A C G G G G G G C C C C A G G A G G A A G A G A C AA $A G G A C A G G A G G A G G A C C A A C C A G G G A A A A A A A C G A C A A A G$ GA G A G C A A A G G A A G G G G C A T T A G A G A A G G C A A C G A G A A G A G A AGAGGGACCAACAGAAGACGGAAGGAAAAAAGAGGAAAGAAC CAAACCAGAGAGAAGCAGAAAAAGGGAAAGGGAAGTACBGGA GAAGGAGAAGGAAGAAAGGGGGGAAGGGGGAGAAAGGGAAAG AACGGGGAAGAGGGGAACCGGAAGGAAGAAAAACCAAAAAAG G G G G G A A A A A A A A G G G G G G A A A A A A C CAA A A G A T T A G C C A G G $G C C A A A G G A G G A A A G A A T T G A G G A A A A A G G A C A A G G A A A G G G$

AAAAGAACCGAAAGGAAGGCCCCAAAAGAGGAAAGGGGGGAA AA G G A A A A A A A A A GGCAAGCCAAGAAAAAAGGGAAAA GAAAA G G G G G A A A A A A G GAGGGGGAAGAGAGAAAAACCGGAAGGGGG GAAGGGGAAGGAGGAAAGAGGGGAAAAGGGAAGGGGGAGAAG
 A A GAGAAAAGGGGAAAAGGGGGGAAAAGGCACGCCAAGAACC C CAG GAAAAAGAAGGCCAAGGAAGGCCGGAAAAGGGGAAGEC C G GAGGGGGAAAGAAGGAGAGAACCAAACGGCCGGGGGGGGA $A G G G G A A A A A A G G A A G G A A G G G G A A G G G G A A G G A A A G A G G G G$ AAAGAGGGAGAAGGAGGCCAAAAAAGGAAGGAAGAGAGGGGG GAA A G G GAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC C G G G G G GAA $A \operatorname{A} A A G G A A A G A A G G A A A G A G G G G G A A C C A B A A G$ GAAGGAAAAGGAAAAGGAAACAGACAGAGAGAGCCGGGGCCA G G G GAGACCGGGGAAAAGGAAGAGGAAAAGGGGAAAGCCGGG G G GAAAAGGGGCCGGGGGGAAGGGGGGCCAGAACCGAGAAAA AAAAAACCCGGAAGGAGACCCGGAACCAACCAAGGGGGGGAA A G GAAACAAAAAAGGAAGGGGAGCCAGCCGGGGGGCCAGGAG G G G G G G G G G G G A G A A A A C CATGGGAGGCAAAAGAGGGAAAA G G G G G G G G A A G G A A A CAA A G GAA A G G G G C C G GAA A GAGGAGA G A G G G G A G A A A G G G G G G G A A A A A G GAAAAAAAAA AAAAAA A A A G GAAAAAGGAGGGAAAAACGGAGAAAAGAGGAAGAAAGGGGA A GAAA A GACGAGGAGAAGGAGGGAGAGAAAAAACCGGAAAGG
 G G G A A A G G A A G G A A A A A G GCCACGAACACGGGGAGGGGACAG G G G A A A A G G G GCCAGGGAAAGCCCCAGAAAAAACCAAAAAGAG
 G G GAACCAGAAAAAAAAGGGGAAAAAGGAGAAGCAAAAAAGAA
 G G G G G A G G G G A A G G GCCAA GAA A A A G GAAAAAAAAA G G CA G G G G G G A A A G A G GAGGGAGGCAGAAAGGCCGGGAGAAA G GAAGGGG G G G A G G G A A G G C C G A G G A G G G G G G A G G G G A A G G A G G G A A C A A G GAACAAAAGAAAAACAAGGGGCAGAAAGGGGAGAAGAAGAA CAC GAACAAGGAAAGCCGGTTGGAGGGAGAGGAGAAGAGAGG $A G G G A G G A G A G G G G G G A G A G A A A A A A A G A A G A A G G G G A A G A A$ A G G G G A A A A G A A G A A G G G G G GCCCCCCGGGGGGGGAAAAAA GAAAGAAAGAGAAGAGGAAGAGGAAGGAAAAAGAACCGGGAA A G GAGGGACAGGGGGAAGGAAGGAAAGGAGGCCAGAATAAGAA $C G G G G G G G G A G A C G G C A G A A G A T A A G G A A G G A A G A G A A A C C A$ G GAACAGAGAGGGGGAAAACCAAGGAAGGCACCGGAAAAGAG A G GAA A A A GAGAACCAAGAAGCCGAGAAAAACAAAAAGAGAA AAGGACCAAAAGGGGGGAAAACCAAAAAACCAAAAAGGAAAA A A A G G A A G G A A A G A G A A A A G G C A G G G G G G G G G G G G G G G G G A C $C G G A A G G G G A A G G G G G G A A G G A G A A A A A A A A G G G G A A A A G G G$ A GAAAAAAACAAAGACAAGAAAGAAAAAAGGAAGGGAAGABAA
 GAGACAACAGGGGCCAAAAGACCGGAAGGAAGAAAGGAAAAA A G G G G A G A A A G G G A A A A A A G G A A A A G G GA GAAA A G G C C G G G G G G G GAA A A A G GAACAGCCGGGAAGAGAGAAAAAGGGAAAAGAA A A GAGAAGAAAGGAAAAAAGGAAAGTTAAGGGGAAAACACAA A A GAAAAGGAGCAGGACAGAAGAAAGAAAGGCAGGGGAAGAA G G G A A A A G GCCA $\mathcal{A} G G A A G G G G A A G G C C G G G G A G A G A G G A G G G$ GAGGAGAGGCCAGAAAAAAGGGGAGGAAAAAAAAGGGTACAG G G G G G G G G A G G G G G G G A A A G G A A G G G G G G A G G C A GAC C G A A A $G C A A A A G A A G G A A A G A A A A G A A G A A A A C C G G A C A A G G G G A G G$ GATAGAGGAAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGAGAGAAGAGAAAGGAACCCAGAAGAAAAAAAGAAAGC C G G A A A G A A A G A A A A G G G A A A G G A A GAGGGGAGAAAAC C G G A GAACCAAAAAAAATTAAAAGGCCAAGGGGGGGAAGGGCAAAG $A A G G A C G A A A G C C T A A G A G G G A G G G A G A A G G G A G G G A A A A G G$

G G GAGCAGGGGGAAGAGAACCAAAAAGCAAAAACCGGAAAAG G G A A A G G G G A A A A G GCACCAGAAAGCCGAAACCAAAGGGGGA G G G G G G G A A A A CCGGC CAAGGAGAGGGAAAAAAAAAAGAAAA AGGGGAACCAAGAGAAGACATAGCACCCCCAAAAGATAAAAG GAAGAAAGAAAAAGAGGGGAAGGAAAAGGGGCAGAGAAAGAA ACAAAGGGGAAAACCGGCCAAGAAAGGCCACGGGGAGAAAAG GAAGAGGGGGGAAAGTTGAGGAGACAGAAGGCCCCACAACAA GAGAAGAAAAGCGCAGAAGGATTCCCCAAAAAGCCCCAAAGBG A G G A C A GCCGGGGGGGGGACCGGAAGGAACCGGAAAAAGAAA CAGAAAAGGGGAAGGGGGAAGAAGAAAAGCAGGGGCAGAAAA
 $A C A G G A A G A G C G G G A G A G G A C G G G G T T G G C C G G A G C C G G C A G$ A A A A A A A A A A A A A A A G G G G A A A A A GA GAA GAAAAAAA G G G G A ATTAAAAAAGGAAGGAAGGCCAGAAGGGGAGGGAGAAAAAAA A G GAAA A A A A A G G G G G GACAGGGGAGGAAAAGGGGGAAAAA G G G GAGAAGAGAAGAATAACAACGGGAGAAAAGGAAGAAAGGG G G G T T G G A A A G A A A A C G G GC C C C G G G G G G G G G G A G A G G A G G A $A G A G G G G G G G G G A G A A A G G G G G G G A A A A A A A G G A G G G A G A A A$ A G G G G GAGGGGAAAGAGGGAAAAAAGAGAAGCCGAAGACAGAG G G G A A G GCCGGGGGAAGAACCAAAGGGAAACAACCGAAAAAA A G GAATTAGTTGAAAGAAAAAAAGAAGAAGGGGGAAGCATTA
 A A A A A C C A A G G G G G A GACCCAGGGGGGAGAAAAAAA GGGGGC C GACCAAAACAAGACAAGGAAACGGAGAAAAGGAACCAGCAG $A C A A A G G G C G A A G G A A A G G G G A G A A G G G G A G A G G A G A A A G A C$ AAAGGGGGGAAACGAGGAGAAAACCAGCACAGGAAAAGCGGA A G G G GCCAGAGGGAGGGCAGAGGAAAGGGAAGGAAAAGAAAG A A A G G G GACAAGGGAGGGGCCCCCCAAAAAAAAAAGG
G GCCGGGGGGCCCAAAAACCGGAAGGCAACGAACCCCACCB GAAGGAAAAAAAGAAAACCGGGGGGAAAACAGAAGAAGAAAA GAGGAATAAAAAGGAAGGAAAAGGAGGGGGGAAAAAACAAAA A G GAGAGAGAGGGAGGGAGGGGGAAGAAAGAGGGGAAAAGAA ACCAAGGAAAAGGAAAAAATTGGGGCCAAAAGGCCGACCACA GAACCACAAAAAAAACCAAGAAGGAAGGGGAGGAAAGAACAA
 GAAAAAGAAGAGGGGGCGAGGCCAGGGAAAAAAGAGGAAAGG AAAGGAAGGCCAAAGAGGGGAAAAGCCGGAAAAGGAACCCCG G G G G GAAGACCAGGGGGGGAAAAAAAAAACAAAAGGGGGCCG
 $A C A A A A A G A C C C C G G G G A G G G G G A A G G G A G G G A A A G A A G A G G$ $G C A A G G G A A G A A A C C A A A A A G A G A A G G A G A A A G A G A A G A A A A$ A A C G G A G G A C C T T G G G A C C C A G G A G G G G A G G A G G A A G A G A A G G G G G G G A A C A GA GAAGGTTGAAGGGAGAAAACCCGAAAAGAA GAGGGAGGAACAGGGGGGGAAGAGGAGGGGAGGGAGGGAAAA
 A G G A C T T G G G G G G A G G G A A G G A G A A A GAGAAGGAAAAAACAA A G GCCAAAAGAGGGAAACGAAGGGGGGAAGGAGAAGGAAAAB GAAGGAAAAGGGGAGAAAGCAGGCAGGAGGCGGGGAAAGAGG GAGGAAGCCAGGGGAGCAAAAAAAAGAGACAAGGAAGGAAAA ATTAA $T$ T $\mathcal{T} G G A A A C A A A G G G G G G G G G A A A A G G A G G G A A G A B A A$ A A GAAAAGGAGCCAAGGAAAAGACCAACCAAGAGGAAAGCAA $T G G A A A A A G G C A A C C A G A G G G A A A A G G A A G G G G G A A A C A A A G$ A G A G G G A A G G G A A G G A A G G A A G G A G G G G G A A G G A A CAA A C C A A G GAA A GAAAGGAAAAGAGGGAAGGGAAAAAAGAGAAGGAAA A G G G G A A G A C C G GAAAATTGGAGAAAAGGGGGGAGAAGAAGG GAAGGAGGGAGAGGGACAAAGGGAGAGAAAGCAAAGGCCCBA GAAAAAAAAGGGGGGGGGGCCGGGAAGGGGACCGCCCAAGGG A G G A A C C A A A A G GAAGGCC GAAAGAACAAGAAAAAAAAAGGG


TGAGAGAAAGGAAGAGAAAAGAAGGGGGAAGAGAAATAAAAG G G GAGAAAAGAGACCCAAGAAGGCAGAAACCACAAAAGAAAG G G GAA $A \operatorname{GAAAAAAAAGGGAAAGAAGGCCAAGAAAAAAAGGGGG}$ GAGGGAGCCAAGGAACCGGAAAGGAAAGACCCAAGACGGAGG G G GAACCAAGAACGGGGGGGGAAGGGGAAAAAACCAAAACAG G G G G G G G G G A A A A A A A A G G A A C C A A G G A A T T G G G G A A A A G G C CAA $A \operatorname{GAAAAAAAAAAACCAAAAGGGGGGGGAAGGAAGGCAAAA}$ A G G G G G GAAGGCCAAGGAAGAGGAAGAAGGAGAAGGAAAAAA
 $C G G G G G G A A C C A A A A G A G A G A G G G A T T T A A A G G A G A A A A A A G$ A A GCCAGGGGAGGGGGGAAGGGGAGGGAGCAAGGACACCGGG GCCAAAAGGAAAAAAGGAAGGAAAAAAGGAAGGAAAAAAAAC CAAGGAAGGCCAAGGAAGGCCAAGGGGAAAAGGAAGGGGGGA A G G G A A A A A A A A C G A G G A A A GAGAAGGGGCCCCAAAAGBCCA GAAAAGAGAGGAAGGGGAACCGGGAGGAGCCAAGGAAAAAGG GAGAAGGGAAAAGCCCCGGGGAACCAAACCAACCCGBAACCT
 GA $A$ ACAAA A $A \operatorname{A} A A A A A G G G G G G A A G G A C G G G G G G A A G G G A G A A$ AAAGGGGGGAAGGAAAAAAACGGACGAAAGGGGGGGAGATTA ACCGGAAAACCAGGAGGGGCAGGAGAAGGCCAAAGGAGAGAA ACAGGAAGAATAGAGAGAAGGACGGAAAGGAGGAGGAACGBA A G GAA A G G GAC A G GAAAGAGAGGGCCAAAAGGGAAAGGGAAAG
 ACCGAAGGAAAAGAAAAGGAAGGAAACGAAAGGGGAAAAAAG G G G A A A A A A A A C CAACCGGCCGGGGAAGGGGGGAAAAAAGGG G G G G G A A C C G G A A G GAA G GAACCAAGGGAACAGAGAGAGCCA A G G G GAAAAGGGGGGAGAAGGAAGAAAGGAGAAGGGAGACAA A A C A G A G G A A G A GAGAGGAGGAAAAAAGGAAAAAA GAA GA GA G G GAGAAAGGGAGCCAGAAAAGGGGGGGGGCGGAGGGGAAGC CAGCCAGAAGGGGACGGATGAAACCAAAGGAAGAAGAAAAAA GAGGGAGGGAGACAAGGAAGGAAGGGAGGAAAAAAAAAAAAC CACAGGGACAGGAAGAGGAGAAAGGCCAGAAGAGAAACGAGG

 A A GACGGAAGGAGAAAAAGATGGAGAACCGGGGAAAAAGGAA C C GAGGGCCACAAACGAAAAAAAGGAACAAGAGAGAGGAAAC $C T A C A A A C C A C A G A G G A C G A A C A G G C C G G A A A A G G A G A G G G A$ AAAGAAAGGAACCGGAAAAAAGGGAGAGGAAAAACCCAAGBA G G G G G G G A C A A G GCCGAGAGGGAAAAAAAAAAAACAGCAAAG GCCGGGGGGAGCAAACCAAACAGGGGAGGAAAAGAAGAGCGG GAAACAACAGAAGAAGAAGGAAAGAAGAAAGCAAAAGGGCCG $G C A C C A A G G A G G G G G G G G G G G A A A A G G G G G A C C A A C C A G A A G$ AGGAAAGAAAAGGAAAAAGTTAAAAAAGGAAAGAAGAAGAAA A A A A A G G G GAGAAGACCGAGGGAGGGAGAGGAAAAAGAGCAA G G GCCAAGGGAGGGGGGGGCAAGAAGGGGAAAAAGAGCAGAC A A GACAGGACAGGGAGAAGGAGGAACCGGAGGGGGAGAAAAG GAGAAAGGAACGAGAAAGAAGGAAGACAGAGGGCAGAAAGAC ACAAGGGCCACAGAGGAGAGAGACGGGGGGAAGAGGGAAGAA GAGAGGAAAAGGGGAGGAAAAGGAGGGAAAAGAGGCAAAAAG GAAAGAAGGAAGGAAAGAAAGAAGGGAGGAGAAAGGGACGBA A GAAACAA $A$ AAAAAAAGGAAAAAAGAGGGGAGCAGAAAGGCCA GAATTGCAGAAACGGGGAAAAGGAAGGAATTGGAGGAAGAGAA GAAAGGGAAAAAAGGGGAACCGGAAGGAAGGCCAAGGGAAAG GAAAAGGGGGGGGGGGGGGCCAAAAAAGGAAAAAAAAAAGAA A A A A A G G A A G G G G A A A A G G G G A A A A G G G G G G G G G G A A G G A A A $A G G C C G G G G A A G G G G A A G G G G A A G G G G G G G G A A A A A A G G G B A$
 A A A G G A A G G G G G G A A C C C C G G G G A A A A G G A A G G C C C C G G G G A A G GAAAAGGAAGGCCAAAAGGAAGGAAGGAAAAGGAAAAGGG
$G C C C C A A G G C C A G A A G G G G G G G G G G A A C C G G C C A A A A G G C C G$ GAAGGAAGGGGAACCGGAAAAAAGGAAAAAAGGAACCAAGBC C C C G GAACCAAAAAAGGAAGGAAAAAAGGAAGGGGAAGGGGA AGGAACCGGAAGGCCGGAAAAGGGGGGGGGGAAAAGGGAAAA $A C C G G A A G G G G A A C C C C A A A A G G G G A A A A G G A A A A C C G G C C G$ GCCGGAAAAAAAAAACCGGAAAAGGAAGGAAGGGGCCTXGGG G G G G G A A G G G G G G G G A A G GCCAAGGCCGGAAAAAAT TAAAAA AGGAAGGAAAAAAGGAAAAAAAAGGAAAAAAAAGGAACCCCC CAAAACCAAAAAAGGAAAAGGAAAAAAAAGGAACCGGGAAAA A G G G GAAAAAAGGAAAAAAGGAACCCCAAGGGGGGGGAAAAA G G G G G A A G G G G A A C C G GAAAACCGGGGGGCCAAGGAAGAAAA
 GAAGGAAAAGGAACCAAAAGGAAAACCAAAAAAGGAAGBCCG G G G A A G G A A A A G GAAAAAAAAAAAAAGGGGGGGGCCGAAAA G G G GAAAAAAAAGGAAAAAAAAAAGGAAGGGGAACCCCGGGGG GAATTGGGGGGCCGGGGAAAACCGGGGAAAAGGGGGGGGGGG G G GCCGGGGAAAAAAAAGGGGAACCGGAAAAAAAAGGGGGGA A G G G G G G A A G G G G G G G GCC G G A A A A C C G GAAAAAAT TAAAAC CAAAACCCCAAGGAAGGAAAAAAAAGGGGGGAAGGGGGGGGG GCCAAGGGGGGGGGGAAAAGGAACCCCAAAAAAAAAAAAGGG G G GAACCAAGGAAGGGGAAAACCGGAAAAAAAAAAGAAAAAC
 $A G G G G G G G G C C A A G G G G A A A A G G A A G G G G A A G G A A G G A A G A A$ A G G A A A A G G A A A A G G A A G G G G A A G G G G C C G G G G A A A A G G A A A A G G G G A A A A A A A A G G G G A A A A G G G G A A C C A A A A G G G G G G T T G G G GAACCAAAAAAAAGGGGGGAAAAGGAAGGCCAAGAAAGGA
 CAAAAAAGGAAGGGGGGAACCAAAAAAAAGGCCAAGG
$C \subset G G G G G G A A A A A A C C G G G G G G G G G G A A A A G G A A A A A A A A G$ G G G G G G G C C G G A A G G G G A A G G G GAA A GAA G GAACC G GAA A G A A G G A A G G G G A A G G A A A A T T A A A A G G A A A A A A A A G G A A A A G G A AAAAAAAAAGGAAGGTTAACCGGAAGGAACCCCGGAAGGAAA A G G G GAACCAAAACCAAGGAAAAAAGGAAGGGGAAGGAAAAA A G GCCGGAAAAGGAAGGAAGGGGAAGGGGGGAAGGAAGAAAG G G G G G A A A A C C C C C C G GAA $A$ G GAAAAGGAAGGAAGGAAGAAA G GAAAAGGGGGGGGAACCGGAAGGCCGGGGGGGGGGGGGAAAA AAACCAAGGGGGGAACCAAAAAAGGCCGGAAAAAAGAAAAAC C G GAAAAGGAAAAAAAACCGGAAAAGGAAAACCGGAAGAAAA A A A C C A A C C T T G G G GAAAAAA G GAACCAA G GAA G G G G G G G G A A G GAAAAGGAACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAA A A A A A A A G GAAGGAAAAAAGGGGAAAACCGGGGAAGGGAAAC CAAGGAAGGGGAAAAAAAAAAAAGGAAGAAGGACAAGAAAAG G GACCGGAAGAGAGAACCCGGGAAGAAAGAAGAAAGGGAAAC C G GCCGAAAGGAGGGAAGGGGAAAGGAGAGGAAGGEAGAAGG GAAAAAGAGGACCAGAAGGAGAAAGAGAGCAAAGBAGAAGAG
 A A A G A G G A G G G A G A A G G G A G G G A G G G G G G A A A A G G G G G G A G G G G GA A A GAGGGAAACAGGACAGGAAAGGGAAAAAAAGCAGAA AAAGAGAGAAACCAAAAAAGAAAAAGGGGGGAGGGAGAAAGG $G C \subset G G G G G G G G A A G G A A A A C A T A A A G G A A A G G G A A A C A G G G G$ A G GCAGAACGAGAGAGGAAACAAAAAAAAGGAGATAAAAAAA AAAGGGAGAGACAGACAAATAAAGGGGGAAGAACAGAAAAAA A A A A A G G A A G G G G G GAAGGGGAAAAAAGGAAAGAAGAAAAAG $G C C A G G G A A G G A A G G G A C G A C A C G G G G G G A A C C A A A A G G A A A$ A A A C C G A A G G A A A G G G A A G A TCCGGGGAACCCATAA GAGGGG GAGGGAAAAGGGGAGGGGAGGAGGGGGAAAAAAAAGGAGGAA G GAAGCCAGAGAGAGAGGGCAAGAACCGGGAGGAAAGGAAGA C G A A A G G G A A A A A G A A C A CA GAGGAAGAAAA AAA A A A A A G G A AAAGGAAAAGGAAGGGGAAGGAACCAGCAGGGGGGAAAGAGG

GAAAGGGAAGGAAAGAAAAGGGGAAGGCCGGAAAAAGGGGGG

 GAGAAAAGGAAGAGGGGAAAAAAGGGGAAGGAACCGGAGGGC CACAACCCCCCAAGGAAAAGGAAGGAAAAAAGAAGGAAAGGG G G GCCAAAAGGAAAGGGAACCCCAGGGAACCGGAGGGGAGAA
 GAGAGGAAGACGAAGGGCCGGAGAGCCAGGGGGAAGAAAAAG GAGAGGGAAGAGGGGGGAAGGACAGCCGAGGAGAGAAGAAAA AAGGGAGAGAAAGAGAGAAAAGAAAGAGGAAGGAAGGGAAAG A A A A A GAGAAAAAGGGGGAGGAGAAAACCGGAAGGGGAGGGG $G G A A A G C G G G G G G A A G G G A A G A G A C G A G A A G G G G A A A A G A B A$ G GAACGGAAGAAAACCGGGAAGGAAGGGGAGCCBAGAAAGAA $G G A G G A G A A A A A A A G G A C C G A A G A A G G G G A A A A G G A A C A A A C$ C CAA A G GCAACGGAAAGGGAGCCCCGGCAAGGAGGCCAAGGA GAGGAAAGGAGGGAGGAAAGGGGAAAAAAGGAAAGAAGGGGG GAAAAAGGGAAAGAGAGAAGGAAAGAGGGGGAAAAAACAAAA A G G A C A G A A A GAGAGGGCCGGACAGGGCAAAGAAAGAAAGGG A A G G A G GAAGGGAGAAGGGCCAAAGGGGGGGGGAAAGAAGAA A G G G G G G A A A T A GACCC G GAAAA A A G G G G GAAA A GA GAGGGG GAAGGAAACAGGGGGAAGGAAGGGAAAGGAGGAAAAGAGAGA ACAGGCCGGGGGAGGGAGAAAGGGGGGCCAAAAGGGGAAACA A A A G G A A G GAC $\mathcal{A} A A G G A G A A G G A G G A G G A A G G G A G A A G A A G A$ A A A G G C A A C A A G G G G G G G G G G G A G G G G A C A A G A A A A A G G T T G G G G G A C C A A G G A G A A A A A A A A G GAA A GAA G G CACCA G GAAA A G G G G C A G G G G G A A G A G A A G A A A C G A G GAGGGGA G G T T A A T T G G G G G G G G G A G G A A G G G G G G G G G G A A G G G G T A G G A A A G A A A G G G G C A G G G G G A C A $\mathcal{A} A G G A G G G G G G G G G G G G C A G G G A G A A A A G G$ GAAAAGAGGAAGGGGGAAGAGGGAAAAAAGGGAGGAAAACCC AACAGAAGGGGGAAAAAAACCGGAGAACCGAGGGGGGGAAAA GA G A C A A A C A A G G G G G G A G G G C C C C A C G A G G G G A A C A G A G C G A G G G GAACCGGAGGAGAAGGGCCACGGAAAAAAAGAAAGCCC C G GAAAAGGAACCAGAGAAGAAAGGGGGGAAAACCGGGAAAC A A GAGAAAGAAGGAAAGCCTAGGCCGAAAGGGGAAAGAAAAG
 GAAAGGAAAGGAGCCCCAAACAAAAAAGAAGAGGAACABAGG G G G G G G G A GACAAGGAGGGGGGGGAGAGGAAAAGGAAAAAAA AAGGGAAGGCCAAGGGGAAGGAAAAGGCCACAAGGACGAGAAA A G G A C G G G A A A G A G GAAA $A \operatorname{ACAAAGGAAGAAAAGAGGAGGCAA}$ AAAGGGGCCAACCACCAAAAAAAAAAAACGGGAAAACBAABA C G G G G CAG GATAGGGAGGGGGAAGGAAAGAAAGAAAACAGAG A A A A A C C C C C C G G G GAGGGGGGGCCAAAACCAAGGAAAAGGG G G GAAA A G G G GATGGGGGGAAAAAAAAAACCAAAACCGAAAG A GAA A G G G GAGAGAAGGAAAACCAAGGAAGACCAAGAAAGGG GACCCACAGAAGAAAAAAAACAAAAAAAAGCAGAAGAGEGGA A G G G G G A C A C C G G G G G G A G A GA A A C T A A G A G A G G A G G G G C C G $A G G G G A G A A A A G G G G A G G A A G A G G G G G A C G G C A G G G G G G G G G$ GAAGGGGAAGGGGGGAAAAGGGAGGCCCCAGGAGGGGGAGGG G G GCAGGCCAAAAAAGGCAGGGAAAGGAACCAAAAAAAGAAA GAAGGAAGAAAAGGGGAAGCCAAAAGGGAGATAACGAAAAAG $G C A T T A G A A G G C C G G G G T A A A G A A A G G A A G G G G A A A A A A A A A$ AA GAAAAACAAAACCGGGGAAAACCGAAAAGGGGGAAAAGAA A $G G G G A A A A A A G G G A A G A A G G G G G G G G A G A A A G G T T A G A A A A G$ GAGGGGGAGGAAAGGAAGGAAGCGAGAAGAACCGGGGAAAAC C C C A A C CA GAGAAGAGAGGCAGGAAGGATCCAAACACAAAAC CAACCCCGGGAAGAACCAGCACAAGAAGGAAAGGGAGGAAGAG

 $A A C G G A A A G A G G G G G A A G G G A G G A A A G A A A A G G C C G G A G G A A$

A GAGAAGGAGGGAGGGGCCGGAGAGGGAGGGGGAAACAAGAA $A C C G G C A A A A A G G A A G G G A C A G A C A C A G A G G G G A A G G G A A C A$ GAAAGGGAAGGCCGGGAGGAAAAAACCAAAAGGACCAGGGGG G GAAGCAGGGGAGAAAAGGAAGGAAGAGGAAAAGGCAGAAAG AA $\operatorname{A} A A G \operatorname{A} G \mathrm{G} G A \operatorname{A} A A A A A G G G G A G G G A A A A G G A A G G A G G A G G A$ G G A A A A A G GA G G G A A A GAA $A \operatorname{GGCAGGAAAAAGAGAGGAGAAAA}$ G G G G GCCCAGGCC GACAGGAAGGGGAAGGGGGGGGGGGGGGG GAGAGACGGGGAGACGACCCCAAACAAACGGACGAGAGAGGA G G G A G A A C A G G A A G G C C G A A A A C G G G GAGGGAC G GTTGAAAC $C G G G G G G G A C C G G A A G G G G G A G G C A G G C C A C C C C A A G G G A C A$ $C \subset C G G A C A A G A A G G C G G G A G G G G G G A A A A C A G G G G G A A A A G A$ A G G GAA $A \operatorname{GGG} \operatorname{GAA} A G G A A A A A A C C G G C A A G A A G G A A A A A G G G A$ GAAGGGGCAGAGAAGAGAGAGGAAGAAGGGGAAAAAAAAGGG GGGCAGCAGAGCCCACCAAAGGGAAAAAAGGGGGAGAAAGGG GAAGGAAAGAAAGACAAGGAGAGAGGGGGAAGAGGGAAAAAA A G GAACCAAGAGAAGGAAAGGAGAACCGGAAGGGGGGGAAAA G GAAAAAGAAGAAAAAAGAGGGAAAAGGGAAATCGGGAAAAG A A A A GCCAAAAAACCGAAAAGTAGAGGAAAGCCGGAAACGGC C A A A A A A A A A A G G G GAAGAGGCAACGGAAACAGGAAGAAGGT TA $A \operatorname{G} G A A A G A A G G G A C C A G G G G G G G A A C C A A G G G A G G G G G G G$ A G G G G G G G GAGACTAAATTAAAAAAGGCCAGGAAGGACCAGA ACCAAGAAGTTCAGAAGAAGGAAAAAAGGAAGACCGGAGAGG A GAGGGGAAGAAAGAGAAAGGGGCAGGAGGAGGGGGAAAAAA A G G G G C C A A A A G G A A A A G G G G A G A A A GTTGGCGGGAAGAAG G G G G GAACCCAGACAGGGAAGAAGGAAAGGAGAGCCGAAAAAG GAAAAGGAACAAGCCGAAAAAGGGGAGAACCGGAAAACACAA A GA $A \operatorname{GA} A G G A A G A G G G G G A G A A G G G G G G G G A A A G G A G G A A A G$ A A G A A $\mathcal{A} G G G G G G G G G A G A C G G A G G G G G A A A G C A G G A A$
G G G G G GCCAGAAGGGAAGGGAGGGGGAGAGAAAAGAAAAAG GAAAACCGGGGGGGGACGGGACAGGAGGGACGGAAAAGAGGA G A A A A C C A A T T G A A A A A A A G G G G G G A G G A G G C C G A A A A A A G A A AGCCGAGAAAAAGGCCAATTAGAACCAAGGAGAAGGGGAGG GAAGGGACGAGAAAGACCAGAAAGAAAAGAGGGGGGAAAAAA $A G G G G A G G G A C A A G A A G A G G G A G A A G G G G A A A G G G G G G G C C C$ A G GCCCAGGGGGGCCGGCAGACCAAAAAGGGGAGAAAGGGAG GAGGGAGCCGAAACCAAGAAAAAAAGAGACCACGGAAGAAAA GAGCAAATTAGGGAGGAGGCCGGAAAGGAACAAGGAAAAAGA GCCAACGAAGGGGGAGGAAAGAAGGAACGAGAAGGAAACGGA A A G G G A A A GCACC GACCAGAAGGAAAAGGAAGAGGGAGGGGA A A A A G A A A G GCGGGGCCGAGGAAGGAGCCGAAAGBAAAAAAA $G G A G A G A A G G G A A G G G G A A G G G G G G A A G A G A A G G A G G G A A A G$ G G G T T G G G G G A A A G G A G G G G A A A G A A G G A C C A A G G G G G G G G G GAAGGAAAAAAAAGGGAAGAGGGCAAAGGAAGGAAGAGAAAG GC G A A G G A A G G A A G G G G A G A A G A GAGGAGGCAAA GAGGAA GA $A G G G G A A A A G A A G G G A A A G A G G G A A A G A C G G A A A G G A A A A G G$ GAGCAGGGGAACAGGTTGACGAAAGAACAGAGAGGAAGAAAG A G G G G G A C A C C G G A A G G G A A G A A A A G G C C A GAAAAA A G G C C G GAA A G A A A G G G G G G G G G GAGGGGAAAAAACCCCAAGGAAAA G G G GAAAAAGGAGGGGAGCCAGGAGAAAGGAAGAAAGGGGGGG A GAGGCCGGGAAGGAGAGGAAAAAAGAACGAGGGACCAAGBC C C C A G A A A $\mathcal{A} G G A G A A G G G G G G G G A A G G A G G G G G A G A G G A G G B$ G G G A A A C G G G G G G G G G A G G A A G A G G G A A G GAC C G G G G A A G G A
 A G GAA $A$ A $C \subset G G G C C A A A A G G A A G A A G G A A G A A A A G A A G G A G A$ G G G G G G G A G G G G G A A G A A A A GAGGGCCAAGGAAAAGAAACCA AGGAAGGAACCGGAAGGTTAACCAAAAAAAAAAGGAAGACCA A G GCCAAAAGGAAAAAACCGGAAGGGGAAAAAAGGAAAAGEG GA G G A A A C C A A G A A G G G A G GA G G G GAGAAC C G G G G A A G G G A G GAGTAGAGAGGGGGGGAAGCCACAAGAAAAAGGAACAAAACA

TCCAAGGACACCCGGGGGGAAGGCAGGGGAAAAGGAGGGCCC CAGGGAAGGGAGGGAGGGGAAAAGAAAGGAAAAAAAAAATXG GCAACAGAAGGAGAGGGGAGGAAAAAAGGAAAGAAGAABAAA AGGGGCACAGGAAGGAAAAGCCGACAGAAAGCCAAGGCCGGA AAACCGGAAAAAAAGAGAGGGGGGAGGAAAAAGAAGAAAGBA A A A A A G G A A C C C C G GCCGGTTAAGGGAGAGGCCAGAAAAGC G A A A G GCC G A G GCC G G A G A A A G G A G G G G A A G A G A A A A A A A G G A G GAAAGGAGACGAACGGCCGAGGGAAGAAAGAGAAAGTXAGA C G A A G G A G G A C T T C C G G C C A A G G G G G G G G G A A G G A G G G G G G A G G GCAGAGGGCCAGGAAAAACGGGGGGGGAAAAAAGGAGAAG GCAGGAAAAAAAGACAAAAAGAGAGGAAAAACCAAAAAAAGC C G A A G A A A A C C A A A A A GA GAAAACCCCAAGGGGGGAAAGGAA G G G G GCC G GAA A GAGCAAAGGAAAGAGGAAAACGBAGAAGAC
 GCCAGAGGGACGGAAGGGAACGACAGGAAAAACCCAAGGCCA A A A A A A A A A G GCGAAAAAAGGAACCGGAGAAGAGAGGGAAAC A G G G G G G G A A A C C C C A A G GAACAAA A A GAAAAA A GAAA G G G G GAAGGGGAAAAGGCCGAAGGGAACCGGCCAAAACCGGGGGGA AAAGGGAAGAAGGGGGGGGAAAAAAAATTCCGAGGCCGAGGA A G G A A A A A A G G G G G G G G G G G G G G G G C C G G G G A A G G A A C C A A A AAGACGAGACAGGAGAAAAAAAAAAGGGGGAGGAATTGGGGA A AC G A T TA $A \operatorname{GA} A C G A A A G G G G G A A A G G A G G A G G C A A G A G A G A$ G GAAGAAAGGAAACCGGGGAAAAAGAAAAGGAAAGAAACA GA CAAGAGAGGCAAAAGAAGAAGGGGGAGGGCCAAGGGGCAAAA A GACAAAGGGGGGGGACAACAGACACCAGGAGGAAAAGAGAA G GAGGAGGGAAAGAGGGGGAAAAAACCAAGGAAGGAAAACCC CAAAAAAAAAAGGGGAAAACCGGAAAAAAGGAAAGAACCCCG A A A A A A A G GCA $\mathrm{A} G \mathrm{G} G \mathrm{G} G A \mathrm{~A} A A A C C A A A G G G A A G A G G C X A A G G G$ G G G G GCC G G G G G G A A A A A A G GCC G G G G G G G G A A A A A CAA G G A AACGAGAGGAACCGGGGAAAAGAAAGGAAAGGGGGAAAAAAG G GACCGGGAAAAAAAAAAAGAGAAAGGAGACGGGGCCCCCCG GAAGGAAAAGGGGGGGGGAGAAGAGAAGGATCCGGAGCCCCA A A GAAA A G GAGCAGAAAGGAGAAAGGAGAAAGGAAGGAAGAA GAACCGGAGAAGGGGCAGAGGGGAAAAAAAAAAGGAGGAAGA GAGAAAAAAGGAACCGAGGAAGGAAGGCAAAAACCGBAAAAG GAAAACAAAAAGACCGAAAGGCAAAACGAGGGAAAAGGAAAA AA GAAA AAAGGAAAAAAAGAAAAACCCGCGGAAAACCGAGAG G GAGGGGAAGGAAGGAAGGAGAGAAGGCAAGGGAGAAAAAAA G G G G G A A G G G G CAC C C A A G GA G A C C A G GA G G G G G G G A A A G G G G G G G G G GCCTTGGAAAGAAAAAAAAGACAAACCGGGGAAAAG GAAAAAGGGAAAGGAAAGGAAAAAAGGCCGGAAAAAAGAAAC C G G G G G G A C G A G GAGAGAAAAACAAACGGGGGGGAAAAAAAC CACGGAGAAAGGAAGGGAAAGGAGACGACACGGGGCCAGCAG G G GCCAACCGGAAAAGAAGAGAAAACCGAGGGGCCGAAAAAA $A G G A A G G A A G G G G A A G G A A A A A A G G A G G G G G A A G A G G C A G A A$
 AAAGGGGAAGAGGAGAGGAGCGGGGAAAGGGAAGAAAGAAAA AAACCGAAAGGCCGGAAGGGAAGGGAAAAAGGAAACCAAGGG GAACCGGGGGGAAAAGGGGAAAAAAAAAAAAAAAAAAAAAGG A GAGGGAGGACGAGGCCAAAATTAGAAGGAAGGACGAAAAAA A GCAGACAGGAGGGAGGGGGGAGAAGAGGGGGGCCGGAGAGC C GAAACCAAAAAACCAAGGGGGAGGAAGGAAGGACCCGAGAA A A GAA A G G A G G G G A A G GAACCAGCAAAATGAGGCCGGAAGAC C GAGAAAAGAAAAGGAAGGGGGAGAGACAAGAGCAAGAACCC GAACCGGAACCGGTTTTGGATCCGGAAGGTACCCAAAGAAAC AGGCCAAAAGGAAAAAGACAAAAGAGGGGCCAAAAGAAAGGA GA $A$ A $\operatorname{A} A A G G A A C A A G G G G G A A G G G G G G G A C C G G G G A A A A A A A$ A G A A A A GCCACCA G GAAGGAAGGGACCCAGAAGBACCA G G G G AAAGGAAAGGGAAAGAAGGAACAGAGGGGAAGAAAGGGAAAA

GAGGAAAAAGGAGGACACCACGGAAAACCAACCACGGAAGGG G G G A GCC G G G G G G A A A GAACCACAGAGAGCCGGAAGGCCGGG A G A A G A A A GAA $A \operatorname{GG} \operatorname{A} A A G C A G G G A G G A A G A A G C A A A C C A G A G G$ GACGGCCGGCAACAAAAAAGGCAGGGGGGCCGGAAGGACAAG G G GAA A GAAGGGAGAGAAAAAAGAGAAGAAAAAAAGAAAGGG G G G G A T T G G A G C A G G A G A A GAGGGGGGCCAACCAAGAGAAAA ACAGAAAAATTGGACAAAAAGGAGGAAAAGGGGAAGGGAACAA GAAGAGGAAGGCAAAAACCGGAAGGAAGAGGGGGGGGGAAGA G G G G G A A A A G G GA G GA $A$ A A A G G G A G A G G A A A A G G A G G G G A G A A AAGGGGCAACCGAAGAAGGAAAGGGGACGGAGGAGGGAAGAA AAAAAGGCAGGGAGGAAAGGGAAAAAACAGGAGGACCGAAGA GAAAAAACCCCAGACGGGGAAAAGGGGGGAGGACCGAAGAAG
 G G GCCCCGGGGAAAACCGGCCAAAAAGCCGGGAGGGAGAACC G G A G A A G G A GAGGGGAGAGAAAAGGAGGAGAAGAAAGCAGGG G G G G G A A A A A A G GAAAAAAAAAAAAGGAGGGGAGAAAGAA GA
 G G G A A A A A A A A A C G G TAAGGGGGGGCCGGAACCGGGACAAAG

 GGGCAAGAACCAACCAAGGCCGGGGGGCAAGGAGGAGAAAAG ACAAAGAGGAAGGGGCAACAAAAGGGGGGGGGAGGAAAGAAG G GAGAACAGGAACAGAAGGGAAAAACAAGAGGGCCAGAAAGG G G G G GCCAAAAAAAAAAAAGGAAGGAAAGGAGGAAACBAABA A G A G A GAAA A A $A \operatorname{A} A G G G A G G A A A G A A G G A C G G A G A A A A C A A A G$ G G G A A A C A A G G G G G GC C A G G GC C G G G G G A G G G A G G G G G G G G A
 A G G G A G G G A A A G G A G G A G G C A A A GGAACCCCCCGGAA
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 G G GAACCCCGAGCAAGAAAAAGGCCGAGGAAAACCAGAAGEG G G G G A G A A G G A C C A G G G G G A A A A G G G G A A G G A G A A C C A A G G G AAGCAAAAATTCCGGGGGGAAAAAAGGAAGGAAGGAACCGGA
 $G G A C C G A A G A A G G A A G G A A G G A G G G A A A A G A G A A C A A A A A A G$
 CAAGGAGAGAGCAAAAAGGAGGAGAAGGCGGAGAAGAAGCCC CAAGACAGAAGGAAGCCCAAGACGGAGAAGAAGGAGGGCGGA AAGCAACGCGACAAGAGGGGAGAAGAGGAGGAAAAGAAGGAA GAGAGGGAAAAAAGGGAAGCCACAGAGGGAGAGGGAAGAGBA
 $G C C A A A A G G A A G G G G G G C A G G G G G G C C A G G A G G G A G A A G G G G$ G G GAC $\mathrm{C} A \mathrm{~A} G A \mathrm{G}$ GACAAAAGAAGCAGAGGGAAAAGAGGGGAACA AAACCGGCAGAAAGAAAGAAAGGAAGGGGGGCCCCGGGGGAG
 A G GAA A G A A A ACCCAAGAAAGCAGGAAGAGACAGGAGGGGGG GAAGGAACCAAAAGGAAAAAAACGGAAAAAAGGACAGCACAA A G GAACCGGGAGGGGAAAAAAAGAGACCCAAAAGGGGGATAC CAAACAGACGGAAAGGGAAAAGGCCGAAAAAGGACAACAGAA

C C C G G G G A C G A G G A G G G A G A GCCGGGGGGAAAAAGAAAAAAG
 A G G G G A A A A A A G G G GCC G G G GC CAAGGGGCCGGCCGAAAAAA AGGAAGGCCGGAAGGAAGGGGGAGACACAAGCAGAGGAAGAA GACAGCCAGAAAAAGGGAGGGGGAGAAAGGAGGAGAGGAAAC C G G G G A A A A G G G GACAAGGAACCCCGAGGAAGGGAGGAGGGC $A C C G G C A A G A G G G G A A G G G A G C A G G A G A A C A G G C C G G G A A G G$ GCCAGAGGAAAGGGGGGCCAAAAGAGGAGACAGAGAGAAAGA A A A A A A A G A G G G G G G G A G G G G G A A G A G A G G G A G A A A A GA $A$ A A AAGGGAGCCCCCCGGGGCCGGGGGGAAGGGGGGAAGGGGGGG G G GAA $A \operatorname{GCCA} A A A G G A A G G A A A A G G A A G G G G G G G G A A G G G G G$ GAAAAGGCCAAAAGGAAAAAAGGCCCCCCAAGGAAAACAAAG GAAAAAAGGAAGGAAGGAAAAGGAAGGAAGGAGGGCCAAAAC
 A GAGGGGAAGACAGGAGGAAAGGGAGGAAAAGGGAAAGGGGG GAAAAGGGGAAGGGGGGAAAGGAGGGGAAGGAAAGGAGGAGC C C C C G A G G G G G A A A A G GCC G G A A G G A A A A T T G G A A G G G G G G A AAAGGAAAACCGGGGCCGGGGAAAAAACCAAAAAAGGAAGEC C G GAAGGCCAAAAGGCCGGAAAAGGGGAAAAAAGGGGCAAAG G G G G G G G C C G G G G G G G G G G G G A A A A C C A A G GAA A G A A A A G G A AAAGGAAAAAACCAAAAGGGGCCGGGGAAAAAAAACAAAGGA AAAGGCCGGCCAAAAAAAACCGGGGGGGGGGGGAAGGGAAAG GCCAAAACCAAGGGGGGGGAAAAAAAAAAAAAAAAGGCCCCC CAACCCAAGAAAGAAAAGAGGGGAGCCCCCCGAAGGAGAAAG G G A GC G G A A A GCAGAGGGGAGCCAAGGAAAACCGBAAACAGA G G G G A G G G G G G A A G G C C G G G A A G A A A CAAAA A $A C G G G G G G C C G$ G G GAACAGGGGGGAGAGGGGAAGAGAAAACCAAAAGGAAGGG G GCGAAACCAAGGAAAAAACCGGGGGGGACCGACAAGAAGGA A G G G A G G A A G G A A G GCCAAAGAGAGAGGAAAGAAGCCAAGAG AGGAAGAGAAAGGGAGGGAAGCCAAGGAGCCAAAGAGAACAG G GAGAAAGGAAAAGGAAAACCAAAAAAAAAAAAAAAGGGGGGG GAAGGGGAAAAAAAAGGGGAAGGGGAAAAGGAAGGGGCAAAA A G G G G G G G G G GAAAACCAAGGCCGGAAGGAAAGCCAAGAGAG GCAAAAAAAAAAAAAGAGAAGAAGGAAAGAGGGGGGGGAAAA
 A A G G GAA $A \operatorname{A} A G G C A G G A G G G A A A A G G G G A G A G G G A G A A G A G G G$ GAAGGGGAAGGGGGGAGGGGGCCACCCGAGGGGGGAGAAACA AAGGGGGGAAAAAAAAAGGAAAAAAAAAAAAAAGAAAGAGGA AAAGGAAAGAAGGAAAAGGAGAACCGAGACAAAGAAAGAAGA C G A A A A A A A A G A A A A A G G GAGAGGAAAGGAAAA GA G GAAA A A CAGAACACAGGGGAGGGAAAAAAAGAGGGAGAGAGGACAAAA C G A G A A A G G G G C C G G G G A A G G G G G A A A A G A GAACC G G A A A C A G G G A A A G G GCA G G G GAAGAGGAAAAGACCAAAAAA GAA GAGA GAGGGCAAGGAGAAGAGAAAAAGAAGGAGGGAGAGACAAGAA
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G G G G GAGAAAGGGCCAGGGGAAAGGGAAAAGGGGGAGACAAG GAAAACGAGAGAGACAGCCGAGAGGGACAACAGGAACACGGG GAACAAAGAGGAGAAAAAAAAAAGGAGAGGAGAGGAAAAGGG A G G G G G G G GAA A G G GAAAA A G C C G GAA G GAAAA AAA AA GAA G G G GAA A G G G G G G G A A G G A A GAA A A GAAA A GAGGGA GA GAA G G GAACCAAAAGGACAAAGGAAAAGGGCCCATTAGGGGAA GAAG
 C GAAAGGCCAAGGAAAAGGAAAAAAGGAAACGGGGAAAAGGA AAAGGAAAAAAAAGGAAAAAAAACCCCCCCCAACCAAAAGEG G G G A A A A A A A A G G G GAAGGAGAAGGAAGGGGTACCGGGAAGAC CAAGGGGAACCCCGGAGAGCAGAGGAGAGTTGGAACAAGGAG AA $\operatorname{A} G \mathrm{G} A C A C G G G G A A G G A A A A G A C A G G C C G A A G G G A A A A G G G$ G G G G GCCCCGGCCAGCCGGAAGAGAGGGAGGAAGAGGCAAAG GAAAGGAAGAAGAGGAAAAGAAGAGGGCAGGAAAGAAAAACA A A A GAAACCAGAGAGAAGGAGAAAGCCAGAAGGAAGGGGGGA AAAGGAAGGGGGGAAAAAAGGGGAAGAGGAAGGCCAAGGGGG G G A A A G G G A G G A A G GAAAAAAAGAGGGAAAGCGCAAACAAA G G G GCAA A G GCAAAAAGAGGGGCAAAAACAACGGGGGGGGGGG GAAAAGGAAGGGGAAAAGGGGAAAAGGAGAGGGAGACGAGAA G G G G A G G G G A A G G A A G G A G A A G G A GAGGGACCCAA GAGAGGG G G G A A G G G G GAGAGGAGGAAAGATAGATAAGGGAAACAGGGG G G G G G A A C C A C A A G G G G A A GAGGAGCAAGAAAGAAAAAAAA G $G C \subset G G A A G G A A G G A A C A G G G G C C C A G A G G C C C C A A A C A A C C A$ AA $A$ A A $\mathcal{A} G G G A A G A A A G A G G C G G G A A G A A A A A G G A A A A G A A A C$ A GACCACAGCCAAGGCCAAAAGAGGCCGGAAAAAGAGATAGAA G GAAGAACAAAAGGGGGGGAAAAAGGAGAACGAAGAAGGCCA G G GAA $A \operatorname{GAA} \operatorname{A} G \mathrm{G} G A A A A G G G G A A A C A A A A A A C C A A G G G G A A C$ A A GAGACAGGGAAAAGAGGACAGAGCAGGGGAAAGAA
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 $A C C G G A G A G A A C C G G G G G G A G G G G G G G A A A A G A A G G G G A C A A$
 $A C C A A A G G A G G A G A A G G C C A A C A A G G G A A C G G G C C G A G G C C G$ GCCCCAGAGGGAAAAAGAAAAACAAAGAAGGAGGGGAAAACB GAAAACAGGGGGGCCGACCCACCTTCCGGAAAAAAAACAAAG GAACGAGGAGGGAACAACCAGAGAAAGAACCCAAAGAAAAAA A G G G G A A G G G G G GACAGACACAAGACCGGAAAGCCAAAAGGG GAAGGGGGGAGAAACAACCAAAGATAAAGAGAAGAAAGAACA A G G GAAAAGGGCCACAGGGCCCAAAGGAAGGAGGGAACCAAA C G G A A G G G G G G G G A G G A G G G A A A C C A G G G G GA G G G A G G A A $\mathcal{A} A$ AAAGACAAAAAAGAGGGAAGAAACCGAAGGAGAAAAACAGET ACAGGAACCGGAAGGAAGGGACGCAAAAGGAGAAAAAAAAAC A A A G A GAA ATTCCAGAAGAGAAAGAGGAAGGAGBAAATAGGG G GAAAGGGGGAAAAGGGAAAACAAACCAGGCAAACCCAAGGA

GAAGAAGAGCATTGAAGGACAGAAGAGCCCAAAAAAAGAAAC C A A A A A A A A A ACCAAAAAAGGAAAAGAGGGAAACCAAGGAGG A GAGAAGCCAAGGAACCAAAAAACCAAAAGGAAGGGGAAAAA A G G G GAA $\operatorname{A}$ GAAAAAAAAAGGAACCAAAAAACCGGGGGGGGGGA $A C C G G G G A A C C G G G G A A A A G G A A A A G G A A A A C C B A C A A A G G G$ G G G G G A GCCGGGGGGGGCCGGGGAAGAGAAGGAGAAGAACCG GAATTCCGGACGAGGAGAGAAGGCCGGGGGAGGAGAACCGBA
 A G G G G G G A A C C G A G A G A T A A GAAGGGAACGGCCCC GAA G GAG A GAAAAAGAGGCAAAAAAACCGGGGAGAGAAAAAGAAAAAAG

 A GAGGGGGGAAGGGGGGAAAAAGAAAACCAAGGGGAAAAAGG A A G G G G G G G G A G G G G G A G A A A G A A GAA $A \operatorname{A} G A C C C A A A A A A G G G$ $G G G C C C C G G A G C C G G A A A A A A A A G A G G A A A A G A C C A A G G C A G$ GAGAAAAAGGGGGGGGGCCGGACGAAAGGAAAAAAAAAGAAA A A A A A C CA $\operatorname{A} G \mathrm{G}$ G A TAGAGAAAGCCAGGGGAGGCAAAGAAAAAA
 AAAAGAAAGAAAAGGCCGGGGGGCCAAGGAAAGCCAAGAAAG GAAGGGGAGAGGAAAGGAAGGAAAAACGAAAAGAACCGGGGA ACAGGAGAGGGAAGGCCAAGGAACGGACCACAAAACAGAGGG GCCGGAAGGAAGGGGACAGGCGGGGGGGAAAAAAGAGGGAGG G G G A A G G A A G A A A A GAAAGACCCGGGAAAGGAACCAAAAAAA
 GC G G G GAAAAGGGCCGGGGAAAAGGAAAAAGGGCCGGGAA GA GAGAACAGGGGGAGGGAGGACAGGAGGAAAAGGAGAAGACCG A A G G GCAAA $A \operatorname{A} \operatorname{A} A A A A G A G G A A G G G A A A G G G A G G G G G A G A G G G$ GAAAGAGAAAAGGAGGAGAAAGGGGAAAAAGGAGGGAAAAAG G G A A A C A A G GAAGAAGGCCCCAAAGGAGGACGAAAAAAACBC CAAGAGAGAAAGAAGCCGAGGCCGGAAGAGAGGCCAAAGCAA C A G A G A G A A G G A A G G G G G G G A A G A C C C G G A GA G A G G G G G G G A G G G A A G G A A G G A C G A G A A A A A G A A A GGGGAGGGAA GAAA GAA C GAAAAGAAAATAAAGGGAGGAAAAAAAAAGAGAACAAAAAG GAAGGGAGAGAAACACAGGAGAGAAGCACGGAAGAAGGAAAG GAAAAGGAAGGGGAAAGAGGAGGGGGGAAAGAGAAAAAGAAG GAGAAGGAACCAACCAGGGAAGGCCGGAAAAGAAGAAAGCCG
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 CAGGGGGAGAACCAGGGGAAAAAAAAAGAGAGAGAGGGAGAA A A A A A A A A A A A A CAGAAAAGGGGCCAGAGGGAAGAGGACAAC $C G G A A G G G A G A G A C A A A A A A A A A G G A A G G A A A A A A G G A A A G G$
 A A A A A A C G G GCAGAAGGAAGAAGGCGGTTGAGAAAGGCAAAG GAAGGGGCCAAGGAAAAAGAGCAGGAAAGGGGGAGAAAAGBC C G A A A CCGGCCAAGGACAAGGAAGGAAAAAGAAAAAAGAGAG GAGAGGGCAAAAACCCCAGAGCCGAAGGGGGAGACGAAAAAG G G G GAAAAGCCGGAAGGCCGAAAGGGGAGCCAGAGAAGAGAG
 A G G G G A G G A G G G G A A G G A G G A G A G GAAAGGAAGAGCCAAAAA AGGAGGGCCAACCAGCACGAAGGAAGGGGGGAAGGGGGAAAA A G G A A A G A A G G G G G G G A A A G A A A G GAGAGAAACAATTGAAAC $C C C A A A G G G G A G G A C G G A A A G G A A A G G A A C C G G G A A A C C G G G$ $G C C A A C A A A A C A A G A A A G A A G G G C C G G G A G G C C C C C A C C A G A$
 A A A A A A A A A A GAGGGCAAAGACCCCAGGAGAAGACAGAAAAC C G A A A T T A A A A A C G G A G GAAA GAAAGGAAGGCCGGGGAAAAC AAAGGGGGGAAAGAGAACCGGTACCAAGAAGAAAAGAGGGGA

A G G G G G G G GAAAAGGCCGGGGACCCAAAAAAAAAAAAAAGGC ATTGGAAAAAAAAGAGGAGAAGGAAAGAGAAAAAAGGAAAGG GAGCCGGGGAAAGAAGGGAAAAGGAAGAGGGGACCAAAGGGG AAGGGCAGGAAAAAACCGGAAGGAGAAGAAGATGGAGAGAGA A GAAAGGAAAGAAGGGGAGACAAGGGGGGCCCCAAGAAAGAG A A A A ATTCCGAAAACAGGAGGAGGGAAAGCCAAAGGGAACCG GAACCCCCCAGAAGAGAACAGAAGAAAGGAAGGGGAGAGAAA $G C G A A A G A C A A C C G A A G G A A A G A A A A G A A G A A G A G A A C G G A$ C G G GAGGGAAAAGGGCCGGGGAAAACAGGAAAAGGAAAAGGC CAAAAGGAAAGAGGGAGGGAAGAGAAGGAAGAACCGGAAAGG $A C C A A A G A G T A A A A G A A A A C C G G A A A A A A A C G G C C G G G G A G A$ GAAGGGGAGAACCGGGGAGAGAGGGGGAAAAAAAATTAACCG GAAGGAAGGAAGGACGGGAGGGGAGGAAAAAGGAAAAGACCA A A A G G G G G G G G G G G G G A G G A GAGACAACAAACGGGAGCAGGA A A GAGCAGGAGAAGGCCGGAAGGAAAGGAACGAAGAACAAAG AAGCCAGGAAGACAGAGAGAAAAGAGGGAAAGAAGGGGGGGG

 GAAAAAAAAAAGGGGGGAAGGAAGAGAGGGGAAGGGGGAACC A G GAA A G A A A C C C A A G GACAGGGGAGGGAGGAAAA GA G GTT G GAAGGAAAGGGCCAGGGAGCCGGGAGAGGAAAAAGAAAGAGG G GAAAAAACCCAGAAGGAGAAAACCCAGAGGAAAGGGGGGGG GAAAGAGAAAAAGCCAAAAAAAAAACCGGAAAAAAAACCGGA A G G A A G G A A A A A G G A C A G A A G G G G G A GAAAA A G GAA G G A A G G A G G G G G A G A A A C A A A GAC $\mathcal{A} G G G G G A A G G A A A C A G A G G A G A A A G$ GCCAGGGGGGAGGACGGGGGGAGGAAAAAAAAGAGAGAACAA
 G GAAA A A A $A \operatorname{AGGAGGGAGAAGAAAGGAAAAAAGGGGAA}$
G GCCAAAGGGAAGGCCGAAAAAGGTAGGAAGACCACAACCB A GCAACCAAGGGGAATAAACCGGAGAGAAAAAAAAGGGGGGA A A G G A G G A A A A C C G G G G A A C CAA G GAACAAGGAGA GACAGAA GACGGAGAAGGACGAGCAAAGAAGGAAAAAAAAGAAGAAGAG A A A G A G G G GCC C A G G G G A A A G GAAA A G G G C C C A A G A A A A G G G G G G G G A A C A G G GAC C A G G G A A G G C C A GAAAC A A G G G G G A G G A A G G A G G A A G A A G G G A G G G A G G G G G G G G A A G A A A A G GAAA A A G GAAGACAAGAAAGGAAAAGAAGAAAAAAAGAGAGGAGACCA A A A G GAA A A A A CAGGGGGAGAGGAAAAAAAAAGAGAAAAGGC A G G G G A G G G G GAA $A \operatorname{GGA} A G G G A C G A G A A G A A A A C C A A A A A G A$ ATTGGAAGGAGAAAGAGCAAAGAAGAGCAAAAAGGGGCAAAG GAAAAAGGGAAAAAGAGGAGAAGGGAAAAAAACGAGACAA GA C C A A A A A A A A A A G G G G G A A A A G GAAAA $A$ A G G GAGGGAAG G G G A A G G G G G G G G A A G G A A C C C C G G G G A A G G G G A A A A G G G G G G C C G A A G G G GAAAAAAAAGCACCGGGGAGAGAGAACGACAGGAGAG AAAAAAAAAGGAACCGGGGCAGGAAGGAAGGGGAAGGGGGGA A A G GAAACCAACCCCAAGGGGGGAAAAGGGGAAAAGGGAAAA A A A G G T A A G G G A G G A G G G A A G G A A G G A G A A C G A C C G G G G A A A GCCGGAAAAGGAAAAGGGGAAAAGGAGGGCAGACCTAAGGGG A GAA A G G G A GAGGGGAAACGAGGGGGGGGGGAAGGAGAAGAA G G GAAAAAGCCAAGAGGGGGGACAAGGAGAAAAGGCACAAAA C C C A C A G A GA $A \operatorname{GGGGGGGAAGGAAGGGGGGCCAGAGAGGAAAA}$ A G G G G G G A G G G G G A A G A GAA A A GAAAAAGAGGGAAAAAAAGG GAAAAAGAGAGGGGGCAGAACCCGAAGAGGGGAACBAACGGG G G G GACCCCAAAAAAGGAAAAGGCCGAAAAGGGGAAAAGGGG $G C \subset A A G G A G A G A A C C G G C A G G A A A A G G A C A A A A A A A A A G T T G$ G G GAA $\operatorname{A} G C C G G A G C C C C G G G A G A G G A C A A A A G G G A A C G G G G G$ G G GAC GAGGGGAAAGAAGGAAAAGGAAAAAAAAGGAAGGGGG GAAGGAAAAGGGAAGGGAGGGAGAGGACCGGAAACBAAAAGB G G G A A G G A C G A G G A A G G G G A A G G G G GA C C G A G G G G G G G G A A $G$ G G G GACCACAGGGAACCGGGGGGGGGAGAACGACCAAAAAAA

A GAGACAACGGCCCCGGGGAAGGGGGGCCGGCCAAAAGGAGC CAACC GAGGAGGAAAACGGGGAAGAGAGACCGGGAGACCGGC A A C G G G G A A G A G GA GAAGGAGCAAACAAGGGAAAGGGGAGGA
 G G GAGGAGAGGACAAGGACGAGGAACCAACCAGAGGAAAGAG $G C C A G A G G A A A G G G G A A G G A A A A A G G G G A A G A A C A G A A G A A G$ GAACAAAGGGGAAGGGGAAGGAAATAGCCGGGAACBAAGGBA G G G G G A A A A G G G GAGGAAGGGGAAGGACAGGGGAAGAAACAA A A G G G G G G GAA $A \operatorname{GAAACCAAAAAGGGCAAGGGCCGGCCGGGGG}$ GAAAAACGGCCCAAACCAAGGAAAAGGGGAAGGAGAAAAGAA GCCTTGGAAGGAAGACAAGAAAAGGCCAAGGCAAGACAAAAG GAACCGGGGAAAAAAGAGGGACAAAAAAGAAAGGGAGCAGBA GAACAAAAGAAAAGGCCGGAGAACCAAGGAAGGAAAAGAGAA A G G GAACGCGCGGAAACACAAGGAAAAAGAGGGGGAGAAAAG GACAAAGAGAAAAAGACAGAACCGGGAGGAAAGGGGAAAAAA GAGAGGGGAGGGAGGAGAAAGAAAAAGGAGAAAAAAAAA GAA GA $A$ A A $\mathcal{A} G G G G A G G A C G A G G A A G G G G A A G G G G G G G G A A A A A A A$ CAA A G GAGGGGAACAGGAAAAGAAAGGGGGGGGAACCGGCCG GAAAAAAGGGGAAGGCCAGAAAAGGAGGAAAAAAAAGTAGAG
 G G GCAGGAAGGAAGAGAAAAAGGAAGGAAAAGGGGGAAAAAA A G GAA A G G GAA $A \operatorname{AGC} C A A A A A A G G A A G G G G A A A A A A A A G G G G G$ G G G A A A A A A G G A A A A A $\mathcal{A} G G A G G G C C G G G G A A G G G A A C A G G G A$ A C C A G G G A A C A GAGAGGGGGGAAGGAGGGGGGAAAAAAACAA A A G G G G A A GCCGGAAAAGGGGGGAAGGGGAAGGGGGGCAAAA
 $C G G G G G G G G A A C C C C A A C C G G A A A G G G A A G G C C A G A A A G A A G$ G G G G G G G C C G G G G A A G G G G A A G G A A A A G G G G G G A A A A A A A A A $A G G G G G G G G G G G G G G A A G G G G A A A A A A G G G G A A G G G G A A G G G$ GGGAACCAAAAAAGGAAGGGGAAGGAAAAGGCCAAGGGAAAG G G G A A G G C C G G G G A A A A G G A A G G C C G G A A G GAA G GAA G GAA A AAAAAAAAAGGGGGGGGGGGGAAAAAACCCCGGAAAAAAGGA A A A A A G G G G G G G G A A G GCCCCAAAAAAAAAAAAGGCAAACCG GAAAAGGAAGGGGGGCCGGGGGGAAGGGGGGGGGGAAAAGGG GAAGGCCCCAAAATTGGAAGGCCAAAAAAAAGGAAAAAAAAA A A A A A G G G GAA $A \operatorname{GGGGCCCCGGAAACGGAAAAAAGGAAGAAAG}$ GAAAAGGGGCCGGAAGGCCGGCCGGAAAAGAGAAAAAAAGGC CAA $A \operatorname{GA} A A A G G C C G G A A G A G G C C A A G A G G G G G A G G G A G G G G G$ $A G A A G G G A C G G G A G G G G A G A G A G G G A A G G G G A A G G A G C C G G G$ G G G G G G G A G G G A A A G A C A G G A G G G G C C G G G G G G G G A C C C C C C GAGGCCACCCAAAAGACGCACAAAGAAAGGGGAGAAAGGGA $G C C A A A C G G C C G A G A G G G A G G C C G G G A A G G A G G C C A G G G G G A$ C TAGGAAGGAAACGGACAAAAGAAAAAAAGGAAAAAAAAAGA GAAAAAAAACCGGGGCCGGGAAAAAAAGGGGGGGGAGGAAGA GA $A$ A $\operatorname{G} G A G G A A G A A A G A A A A G A C G G G G G G G G A A A A A G G A A A A$ A G G G G A A G A C C A A A GAGGGAAAAAGGGAGGAACGGAACACAT A C C A G G G T A A A G G A A A A G G G G G G A G G G A A A A A A GACA GAAA A G G G GATTCCAAAAAGGAAAGACCACAAAGGGAGGGAGAAAAC C G G GAGACCGACCAAGGGGAAGAGGTTACGAGGAAGGCAAAA $G C A A A A A A A G G G G G G C C G G A G G A A A A A A G A G G G G G G G G G G G C$ A GACCAGCCGGAAAGAGACGAGGGAGGCAACGGAACAGAGAG $G G G G A G C A G A A G G A G G A A A G G A C G A G G G A G A A A G A A A G A G A A$ A G A G G A G A G G G A G A A G G A A C A G G A A A A G A A A C C A A A A G G G G A A G GAAAAGAGGGGGGTTGGACAGGGAGAAGAAAGGGGGGCCC $A A G C A A G C A G A G A G G G G A A A A G G C A G G G A A A G A G G G G A G A G C$ C G G G A A A G G A A G G G G A A A A G G C G G G G A A A T T G G G G A A C C G G G A A G G G A A A A A A G G T T A A A A A G G G G G GAA A G G G A A A A C C G G G G A CA GAGGGATCCAAAAGGGGCCAAACAAAGAAAAAAGGCAAAA $A T T G A A G G G G A A T A A A C G G C C G A A A G G G G G G A G G G A G G A G A G$

A GAAGGGGGGGAAAAAAAAAGAGGACCCCGGAAAGAGGAGAA A A GCCGGCGCCGGAAGGCCAAAAAAGCAGAAGGGGAAGAGAA
 A GAAAGGGGAGCCAGAAGAAGCCAGGAACAGGGAAAAGGGGA GAAAAGGGGAAGGAAAGAAAAGGGAGGAGAAGGAACAAGGBA G G A A A A G C A A A A A A A A A G G G G A A G GACAAAAGAAC GAAAAA G G G GAGAGGGAAAAAAAAAAGGAGGGAGAGACGGACGAAAAAA G GAGGACCCCCCCGGGGGGAAGGGGACAAGGCCGGGAAGGGG G G G A A A A G G G G A G G G GACCACAACAAAGGAGAGAGAAAAAAC CAAAAAACCGGCAGAAAAGACAGGGAAAAAAAAGGAGGAAAA A G GA $\operatorname{l}$ GACCGGAAGGAAAAAAGAAGGGAGAAAAAAGGCAAGG
 G G G G G A A A A G G GAAAA $A$ A A A C C C C GAGGAA GAAAA A GAGAA G G GAACCGGAAACAACAGGGACCCCGAAAGAAAAGGGAAGAAAA G GAA A A A GAA $A \operatorname{A} G \mathrm{G}$ GACGGGGGGGGGGGGAAAAAGAAAACAAA

 C G G G GCCAAAAAAAAAAGGAAGGAAGGGGAACCGGACAAGAA GAGGAGGAAGAGGGGGGAGAGACAGGGAAAGGGAAAGAAAGA GAAAGGGAGAGACAGAAAAGGGGAAGGAAGGAAGGAGGAGGA
 GCAGACAAAGGGGGGGGAAAAGGGGAAGGAAGGCCGGAAAAA GAAAAGGAGGAAAAAGAGAGACCGGCCAGCCAAAAGGACAGC C A G G A A A A A G G G G G G A A G G A A G G A G G G A G A G G G G A A A G G G G G GAAAAGAGGAAGGCCAAAGAAAGAGAGGGGAGGGGAGGAGAG GA $\operatorname{G} G A G A A G A A A G G A G A A A G A A G A A A A A C A A G G G G A A A G G A G$
 CAAGGAAAAGGAGGGGGACAAAAAAACGGCCGGAGAG
AAGGGGAAAACCGAAACAGAAGAAGGGGCCGAACAGGAGGA $A C A C C A A G G G G A A A G G C A A C A A G A A A A G A C A G G G A A A G G G G A$ A G G A A A G C C G G A A G G G A A G A G A G A G G G G G G A C A G A G G G A G G A A GAGGAGGGGAGGAAAAAAGGGGGGGGGAAAGGGGGAAAAGC AAGAAGGAGCCCCCCGAGGCAAAGGGAAGCCGGAAAGAAGAA GAAGACCGGAGGGACAAGGGGGGAGAAACGAAGAGAAAACCB G G G G G A G G A A G A C A G G G A G A G A G A G A G G G G G G A G G G G G G G G A $A C C G A A A G G A G C C A G A A A A G G G G C C G G A G G A A A A G A T A G A G A$ G G G G G GAGGGGAAACGGAAGGGGGGAAAAAAAAAAGAAACAA A G G G GCCAACCAAGGGGGGAGAGACGGAACCCCAGGAGAGAA GCAA $\mathcal{A} G \operatorname{G} G A G G G G A A A G A T A A G G A G G G A A G G G A A A G G G G G G T$ TA $A \operatorname{G} G A A A C G G G G A A G G G G A G A G A A G G A A G A G A G G G G G G G G G$ GAAGGGAAGCAGGAAGGGGGGGAAAAGGAACGCAAGAAGGGG GAGACAGGGGGGGGGCCAACCGGGGAAAAAAGGAAAAGGGGG $G C C A A G G C C A A G G C C G G C C A A C C G G A G A A A A G G G G G A A G G A G$ A A G A G A A A A C C G G A GAGGAAGAAAAGGGGAGGAAAAGAACC G GA $A$ A A A A C A $\mathcal{A} G G A A G G G A G G G G G A A A A A G G G G A G G G G C A A A A$ GA $\operatorname{G} A \mathrm{~A} C A A \operatorname{A} A A G G C C G A G A A G G G G G A A G G A A A G G G A A G G G G G$ GAGAGCAAGGAGAGAAAGAGGGGAAAAACGAGGAAGAAAAAA
 G G GACCAAGAGAGAGAGGGAAGGGGAAAAAGGGGGGGGAAAA

 G G G A A G G G GAA A G G G A A A A A A G GAA A G G G C CAA A G C C A A G G G
 GAGGGCCGGACAGAGAAGGGAGAAAGGAAAAGAAGGCAATTC CA $\operatorname{G} A A \operatorname{A} G A G A A A A A A A A G G A A G A G A T T A A A A G G A G G G G G G G C$ C T TAC G G G A A G G GAAAGAGGAGAAACCGAGAGAAAGAAGGAG A G A A A A A G A G G A CA $A \operatorname{GGGAACCGGGAGGGGGGACGAGGGAAGA}$ GA G G A A G G A A G A A A A A GAG GAG GAAAGAGAGAA AAAAC CACA $A A C A C A A A G G G G G G G C C G G G A G C G G A A G G A G A A A A A G G A G G A$

G GAGAAAGAGGGGGAAAGAGAGTAAGCCAGGAGGGGGAGGA AAAGGAACCAAAGAAAGAAAGGGGGCAACAAAAGGCCAACCA AACAAAAAGAAAAAACAGGGGGGAAAAAAAAGGAAAGAAAAA GACAGAAAGTTAAAAGGGAGGAGCCCCGGAGGAAGGGGAGGA
 GAGGAAGCAAAAGGAGAAAAAAAAGGGGGACAGAAAGGAACA $G C C A A A A A G G A A C C C G G G A C A C C G A A A A G A A A A G A A C A G A A G$ GAGAGAGGAAGGGGGGGCAAGAAAAAGACGACCACAAGGGGG
 AAAGAAACCAACCAAGGAAGGGGAAGGAGGAGAGGGGAAAAA A A A A A G G G G G G G A G G G G G G G C A G G A G G A A G G A A A A G G A G G A A ACCGAGGGACCGAAGCAGACCGGAAAAAAAACGCGGGGAAAA GAAAAAAAAGGCCAAGGAAGGGAAGGGACGGAAAAAGGAAGAG $A G G A A G G A A A A A G G A G G G G A G A A G A G G A G G A G G G G A G G A G G G$ G G GAAAAAACAAAGGGGAAGGCAGGCAGGACAGGGAGAAAGA GAACCAAGGGGAAGGGAGGGGAAGAGGCCGGAAAAAAGGGGC A A G G G G G A A A GACAACCACAAGAGGAGAGGAAAAAGAAAGAA A A A A A G G A A A G A G G GAA $A \operatorname{AGGGGGAAGAAGAAGGCCGGAGGAA}$ G G G GA $A \operatorname{GGGA} A G G A A A A A A A G G G G G G A G G G G T T A A G G C A A$
 $A G G G G G G G G A A G G A G A A A A A A G G G G G G A G G A G G A G A C A G C C G$ GAGAAAGACAAGGCCGGAACAGGAAGGGGCAAAGGAGGAGGA A G G G A G G A GCC G A A A A GAGGGCAGGAGAAAGACGGACGCGGG G G G G G G G G G A G G G A A A A A G G G A A G G A A G G A G C G G A A G A G C G A A A G A A A C G G A A A A A G A A G G A A A TAAAAAAA G G G G G G G G G G G G G G GAGGGAGGAACCAAGGGGAAAGAGAAGGAGCAAATTACGAG GAGGAACGAACTAGGGAAAGGGGCCGAGACCGGGGCCACAGB G A A A G A A G G G G A A G G A GAC $\mathcal{A} G G G G G G G A A A A A A A A C A A G C A A$ A G G G G A G A G G A A G G G G G G G G G A A A A A A A A G GC CAA G G C C A A G G G GAAGGAAGGGGGGTACCCCAAGGGGAAGGAGACCCCCCAA A A G A A C A GAAAGGCCAACAAAGGAGAAGGAGGAAGGAAAAAA $C G G C C G G A A C C G G A A G G A A G A G G G G G G G A A G A A A G G G G G A G G$ G G GCCAC G G A A A A A GAAGGGGCAACAAAGAGGGGAAGCAAAC A A GAGCCAGAGAAAACCGGCCAACCGGGGAACCGAAGCAAGB GAGAGAGGGGGAAGAAGAAAAGGGGAAGGGGAAACAAAACAA G G G A G A G C A A A A A G G G A A A G G A A A A G G T T C C A G G GCCC C G G A AAGAGCCGAAGGGAACCGAGAGAAAAAAAAGGGGAGGAAGGG AAAGGGGAGAGAGGGAAAAAAAAAAAAGGGGAAAGAAAAAAC C A C G G A A $\mathcal{A} G G G G G A G G G G A G G G G A G G G G A G G A A A A A A G A G G G$

 G G GCC G A G GAGAAGGGGCCAAGAGGGAAGAAAGAACCAAAGA GCACCGGGAAGGGAGGGGGAAAAGGGAAACCCCAAGGGGAGC A GAG A G G A A A A G G A G G G G G A G A A A A A A A A C A G A GA G GA T G A G A GAA A G GAGCCCCGGAAAAAAAGAAAAAAAAGAAGGAAGGAA AAAGGGGAACAAAAAAGAAAAGGCCGGGGGGCCAAAAAAGAA $G C \subset A A C C G G G G A G A G C G A G G A A A A A G G G G G G A A A A G G A A A C B$ A G G GAAAGGGAAGGACCGAAAGGGAAAGGGGGAGGAAAACAA A G GCCGAGGGAAGGAGGAGCAAGGGGGAGAAAGAAAAAAGGC C G A A A G G G A A A G A G A G GAACCGGGAGGAAGGAAG GAAAAGAC C C C G G A A A A G G A A A A G G G GCAAAAACCGGGGCCAGGGA GAGG G G G A A G G G G G A G G G G G G A A C C A A A G G G GA GA A A A GA G GAA $\mathcal{A} C$ C G G G G A A G A C C G G G G C C G G A G A C G A G C A A A G G G G G G G G G C A G A G G G G A A A A A A G G A A A A A A A C G GAGGAA GAGGGAAA GA GA G G $A G G A G A A C C G A A G G G G G A A G G G G A G G G G A G G G G G G A A G A G A G$ GAAAAGAGGAGGAGACAGGAGGAAAAGAGGGAAGAGAAGGAA
 A A G A A G A G G G G G A A A A G G G C C G G G G A A A A C C G G A A G G A A A G C CAAAAGGAAGGAAGGAAGGGGAAAGAAAAAAGAAAAGGGGGG

G G GAAAGGACCAGGGCAGAGGGATAGGAGGGGAGGGGGGGGG GACAAAAGGGGAGCCAAAACCGGAAGGAAAAAAAAGGGGCCB $A G A G G A A G A G A G G A A C A A C A G G A G G G A G G G G G G A G G A A A G A G$ GCCGGGGAGGGAGAAGAGAGGAAAAGGGGGGGAGAAAAGGGA CAGCCAAAGAGGAGGAAGGGACACCGACGAAAGGGGGGAAAA GAAA A A G G G T T A G A GCC G A CAACGGGGCACAGGAGGAGAA GA GAGGAGACCGGGGGAAGGGAACCAAAGAAGGCAGAAGAGCAA A G G A A A A A $\mathcal{A} G G G G G A G G A T A G A A G A G A A A G A T A A G G G G G G G G$ A A G G A A G C C G G G G A G A G A G G G A A G G G G GACA A A A GA G A A G G A TACAAAGGGACGAGGCCGGGGAAGGAGAAGGGGAAAAAAGGG GAA A G A A A A A GAA $A \operatorname{AGGCAAAGGACCGGGGGGATAAAACAAAA}$
 A GAACAGAGGAAAAAAGAGGAGGGAACAGACGGCAAAGAAGB G GAGAGAGAAAGGGGAAGGAAAAAAAAGAGGAGGGAGGGGGG GAAGGGGAAGGAAAAAAAAAGAGGGAAACCCGGGAGACAGAG A G G G GA A A G G G G G GACCAAAAAACCCAGGAAGGAAGGCAGAA C A A A G A A A C G G CAA $A$ A A A G G G G G G G G G G G G C A G A A G G G A G G G G A A GAAGGAAAAACCCAGAAGAGGAAAGAAAAGGAACAAAATA $G G G A G G A C A G A G G G G C C A G G G A A G A G G G A G G A G A G A A G A G A G$ G G G G G A G G G A A A G G G A G A A GAA A A G G C G G A GAAAA $A$ A C C G G A A A A G GAGGGGGGAGAGAGAAGAAGGAAAGGGAAAACAAAAGA G G G GACAGGGGGGAAAAAGGGGGAGGGAAAGCCGGAAAAAGC A G G G G G G A G G A GAA $\operatorname{T} A A A G G A G A G G G A T G G C C G A A A G A G A G A C$ A GAGGGGAAAAAAAAAAAACCAACAGGAAAAGGGGGGGAGGG
 A G G G G G G GAGGGAGGAAGGGGGAAGAGAGAAGAGAAAGGAAG GAAGGCCAAGGAAAAAAGGAAGGGGGGAGAAAACAGAGGCCA A G G A A C C A C A A A A C C G G G G G G C C A A G G A A A A A A G G G G
$C \subset C \subset G G A A A A A A A A G G G G A A A A G G G G G G A A A A A A A A G G G G C$ C G G A A A A C C A A A A G G GAGGGGGAGGAAGGGGGGAA G GAAA A $\mathcal{A} A$ G A A C C A A A G G A A G G G G G A G G G G G G G A G A G G A A G A A G G A A G G A A GAGGCCGAGAAGGGGGAGAGGAAGAAAGAAGGACCAGACAG G G G G G G GCCAA G G A A GACCAACAGAAGGGGGGGAAAACCGGG GAAGGAAAAAAGGAAAAAGGGCAAGGAGGAAACAAGAAAAGA G G G A A A G G GACAAGGAAGGAGAGAAAAACGGGGCAAAAA GA G G G G G A A G GCAGGAGGAAC GAAAGGAA GAAAAA AGGGGAGGA G G G G GAAAAAAGGGGGAAAGGGGAAGGGGAAAAGGAAAACAA A GGCCAACCAAGGAAGGCCAAGGAAGGGGGGGGGGAAGGGGG GAAGGAAGGCCGGGGAAGGAAAACCGGAAGGGGAGGGCAAAG G G G A A G G G G G G G G A A A A A A A G G G G A A G G G G A A A A G G G G A A G G A $A C C G G A A G G G G A G G A A G C A G G G G A G G A G A G G G A A A G G G A A G A$ A A G A A A G G A A C G G G GAA $A \operatorname{AGGGGAAAGGCCGAGAACCCAAGAA}$ A G G G G G GAGAAAGAAGAGAGGAAAAGGAGGAAGCACACAAAC C G G G A G G G A A G G GAGAC CAAAAAAAGGGGAAAAAAACCACAG GAGAGACGGAAAAGGGGGGAACAAAGAAGAGGGGGAGAABAA $G C A C C G G A A A A A A C C G G G G G G A G A G G G G A A A A A G G G G G A A A A$
 G GAGGGGAAAGAGAGGGGAAAGAAGAGAAGGAAAAAAGGGGA ACCAAGGGGGGGGCCAAGGGGAAAACCAAAAAAAAAAAAAAA A A A G G A A A A A A G G G G A A A A G G A A G G G G T T T T A G C G G G A G G C G A G GAAAGCCAAAAGACCGGCCGGAAGGAACCAAGBAAGGGGC A GAAAAACAAGAACCGGGAGAAGGACCAGCCGAAAAGGAAAA GACAGGAAGCAAGAACCGAACAAAGAAAAGGGGGGAAAAGGT TGGAACCAAGGAAAAAAAAAACCGGGGGGGGGAAACAAAGGG A G GAA A G G G G G GA G GAACAGACCAAAAAAAAAGAGGGAGGAG A A A G A G A A A A A C C G A A GCCAAAAGGGAGAGAACGGAAGAA GA $G C C A G A G A G A A A A T T G G G G C C A A G G A G A A G A A A C C B A A A G G G$ A A GCAA A A A A A A A A G C A GAA A GA G G G G G G G G A G C C G G A G T T A AAAAAGGAAACGGAAAGAGGGAAATGAACGGGAAGGGGGGGA

A GAGAGGAAGGAACCAAGGACGAGGACGAGGAAGAAGGCGGG G G G G G G G A A A C A A A G C G TAGGAAAAAAGAAGAACA G G G A GA G G GAAAAGACCAAGAAAGGGGCCGGAGAAAGAGGACCAAAAGGA AAAAGAACCGGGAGGAAAGAACCAAAAAAGGACGCAAAAAAG GAAAAAAAAGAAAAAGAGAGAAAAAGAGGGGAGGGAAAAGAG GTACCGGAAAGCATAAAGGAAAACCAAGGAGGAGGAAGAAAA $A C A A G A A G G A A A G A G A A G G A A C C G G G A A A C C G A G G G G G A A A A$ A G G G G GA GAG G CAA A G G GAAAGAAAGAGAAGGGGGCGAGAAAA A A A G A G G G A A G A A C C G G G G G G G G A A GA GAA A A A G GAAAAA A A AGGGGCAGGGGGAAAGGGGAAAAAGAGGGAACCGACCAGGGA C G GCA $\operatorname{C} C \mathrm{C} A C C G G G G A A G A G G C G G G A C G A A G A G A A A A A G G G G$ GCCAC GACAAGGAGACCGGGAAAGAAGGGGGAGACAAAAAAG GAAGGCAGAAGAAAAAGAGACACAAAAGGGGAGAGGACAAAC A GAAA A A GAAAGGAAAAAAAAAAAGCCAGAGGGAGGAAGAAC ACAAAGGAGAGGAACGGCCAAGGAAGGGGGGGGAAGCACACA GAAGCAGGGAGAGGAAGAGACCACAGGCCAAGGAAAAAAGGG G GAA A G GAAGGAAAAAGCAAACACCAAAAACTAGGGAAAAAA $A C C G G A A A A G G G G G G A A G G A A C C A A G G G G G G C C A A A A C A A A G$ $G C C G G G G G G A A A A G G A A C C A A G G A A G G G G A A G G G G A A G G C C G$
 GAAAAAAAAAAAATTAAGGGGAAGGCCAATTAAAAAAAACCA A A A A A A A A A A ACCAACCAAAAGGGGGGAAGGAAAAGGAACAG G G G G G A A T T G G A A A A G GCCCCCCAAAAAAAATTAAAAGAAAT TAAAAAACCAAAAAAAAGGGGAAGGGGAAAAGGAAAACCGGG GAAAAGGGGGGAAGGAACCGGGGAAGGGGAAGGAAAACAGGA AAAGGGGAAGGGGAGACGGAACCAGGAAAAACCAAAGGAAAA A G GAAAAGGGACAAATTAAAAGGGGAAAAAAAACCCAAGAGC A G G A A C A A A A A A A C C C CACCAGGCCGGGAAGGAATAAAAAGG AAAAAGGGGAAGAGGGAGAGGCCCCGGCGAGAGGGAAGAAAA G G G G GCCGGAAGGAAAACAGGAGGGAGCCCCAAAGGAACGGA G G G A A C C C G A G G C A A G G A G A G G A G A A G G G A G G G G G G G G A G G G GAAAACAAACCGAACAGAGCAGAAGGATTGAGACAAAGAAGA CAGGGGGCCAAAGGGAGGGAAGAAAAGAACAGGAAAAGGGGA
 $G C C A G A A A G G A G G A A G G A A G G A A G A G G C C C A G G A A A G A A G G G$ GAAGAGAGGGAAGGGGACCAAGGAGAAGGGAGGAAAGABAAG AAAGAGAAGGGAACACCGGGGGGCCGGAGGGAGAAGAAAAGA GAAGGGGGAGGACGGGGCAACAAACAGAGGAAGGAAGGAAAA CAAGGAAAGAACCGAAAATGAGGGGGAAAGAGAGGACGGGGA
 GAGAACAAAAAGAAAGAAACAGGAGGGAGGGCACAAAAGAAC C G G T T A C A GAGCC G GAACC G GAAGGGGACGAAGCC GAAA G G G $A C C C A G G A A C C A G A A A G A G G G G G A A G A A A C C G G G G A A A A A A A$ A G A A A A A G G G G A A A A G GCC G A G GAGGAAAAACCGGGGGAAAA A G G G G A A C C G A A C G G G G A A G G G G G G A A G G A A C C A C G A A GAA A
 GAGCCGGGGAGAAAGACGAAAGGAAAACCGAGACCAGAGGGG A G GACGAGAGAACCCGGAACCAAGGGAAGGGCGGAGAGAAGA A GAA A A GAGCCGGAAAAGGAAGAAGACAGCCAGGAGGGAAGA A G G A A GAAA A G A A G A A A G G G G A A A A G GAAA A G G G GAAAA A A A A GAGAGAGGAAAAAAAAGAAAGAAACAGAGGGGGGAAAAA GA GAGGAAGAAGAGGAGGGAAGGCCGGAAAAAAAGAGAGACACA G G A A A G G G GAACC G GAAAGCCAAGGGAACAGGGAAGGABAAG AAGGGAGAGAAGAAGAAAACCAAGGGACCGGGAGGCAACAGA AACGAAGAAAAAGACGGCCAAGGAAGGGGACGAGAGAGAAAG GACAAGGAGAGAAAAAAAAGGGGAGAAGGCAGGAAAAAAGGA A A A G G A A G G A A A A A G G G G G G G C C A A G G G G C C A A G G A A A A G G A $A C A C C A C A A C C C C C A A G A G A A A A G C A G A G G A A G G A G A C A A G$ G G GCAGGGAAAGGAGGAGCGAAGAGAAAAGGACGAGAAAGGA

AAAGGCAGGAGCCAAAAAAAAGGAAAAAAGGAAAATTAAAGG
 $A C C G G G G C A G A A G A A A A G G G G A G G G G G G G G G C A G G A A A A G G A$ AGGCCGGGGGGGGGGGGCCAAAGGAAGAAAGAACCAACAAAA A A GAGCAAGGAAGAACAGAAGGAGGCCAGGGGGCCCAAAGAAA

 G G G GAAAGGGGGAACGGAGGGGAAAGAGGGAAGCCGGGAAAG GAGCC G G A A G G A A G ACACAGGAGAGGAAGTTGAGAAGAAAAA $A C A C A A C G G A G G A G A G A A G G G A A A A G G A A A G G A A G A A A A G G G$ GACAAGGAGGGCAAGAACAGGAAGGCAGACGAAAGAGAGAGA AGGAGCCGAACAAGGAAAAAAAAAAGGGGAAAAAAAAGAAGG
 G G G G A C C G G G G G G G C G G G A GA G A G G A A G G A A A G A C G A G G A A A A ATAAAAACACAGAGGGAGGAAGACCCGAGAAACCAAGGTTG G G G GA $\operatorname{G} A \mathrm{~A} G A A A A A G G G G G G A A G G G A C C G A A G G G A G G G G G G G G$ G G A G G A T C C G G G G G G G G A A A A A G G G C C G G A G G G A A G G A G G A G G G GCCAAAAGAGGCGAAGGAAGGGGGGGGGGGAGAGAAAAAA $G C A A G G G A G A A G A G G G G G G G G A A G G G G A G A T C C G G G A A A G G A$ A G G G A G A A GAA A GAGGGGGAGAAACGGCACCAGAAAAAAAGBG GAAGGAAGGACCAGAGGGAACCCGGCATTCCGACCGGGAAAG A GACAAGGGGGGGAAAAAGAAAAAGGGGGGGCCGAAAGAAGA AAAACAACAAGGGAAAACCAAAAGGAAAAGGAAGGAGAGGAA A A A A A ACAGAC GATTAAAAGGCAGCAAAAGGGGGGGAA GAAA A A A A ACCAAACGAGGCCGAAAAACCGGAACAACAAAAGGGGA A A A C A A A C A A A A A A A A A G G G GAGAAGGAAGGAA G GAA GAAAC CAAGGAGCCCCAGGAAAGGGGGCAAGGGGAAGGAGGGAAAAG G G GCCGGGAGAAAAGGGAGAGGAGGAAGGGGCCAAAA
G G G G A A A C A A G G G G A A G G G G C C A A G GAA A G GATTCCGGAGG $G C A A A A G A G A A G A G G A A A A A A A G C C G G G G G G A A G G C C G A A A G$ A G G G G A A G A G G G G A G G A T T C C G A A G G A A G G A A T G A A A G G A A C CAAAAAAGAAGGAGAAGGGGGAAGGAGGAAGAAGAAAGAGGA GACAAGGAGCCGAGGCAGGCAGGGGGAAGCCGGAAAAACGGG C G G GAAA $A$ G $\operatorname{A} A A A A A A C C A A A G G A A A G A G G G G G A C C B A G C A G C$ CAAACCCACGGCAAGACGAGGAGGGGGAAAACCCCAAAAA GA G G GCCAAAAAAAGAGGAAGGGGCAACGAGTTAGAAAGCCCAB GAGGGAGGAAGCCAGAAAAAGGGGGAGAAGGGGAGAGCAAAA CAGAAGAGGGGAAGGAAAGAATTGGAAAAGGAAAGGGGGCCA G G G A A A G GCAAAGGGAGGGGGAACCCCAAAGGAAGAAAGACG $G C \subset A G G G A C G G A A C A A G G A A A A A G G G A A A A C A A A G A A G G G G G$ GACAGGGGGAGAGGGAGGGGAAGGAGGGGGGGGGGCAAAGAA $A C C G G A A A A G G C A C A G G A A G A A A A A G G G G G G A G G A G A A G A G G$ GAGGGGGGGGGACGGAAAGCCCCAGCCACGGGGGGCCGGGGC $A G G C A G A A C A A G A G A G G G G A A G G A C G G A A A G G G G G G A A A A A G$ G G G GACC G GAGACGGAAGGGGAAGGCCGGGGAAAACCAAAAA CACAAAAAAGGAAAAGGCCGGGGAGAAAACCGGGAAGGAGAG A G GAC G G A A A A A A A G GAGGGGCCGGGGAAGGAACAGGGGGA G GAAGGGGACAAAGGGGGAAAAGGAGGGAAGGAACCGGGAAAA AAAAAAGGGAGAAGGAACCGGAGACGGGGAAGGGGAAAAGGG G G G A A A G G G A G G G G G G G A G A G A G C C G A C C G G G G G G G G G G A G A GAGAGAAAAGGGGGAAGGAAAAAAGAGGGCACCAAAAGGCGG A GAAACCTAGAGAAGCCGGGGAAGGAAGGGGAAAAAGA GGAAA C G G A A G G A G A A A G G G G G G G C A G G A G A A G G G G A G A A G A A G G G G AGAGGGGAAAAGGAAGGAAAACCGACCGAAACCAGGGAAGGA AAAGGAAAAAAGAAAAGAAAAGGATGGAGGGGGGGAAGGGGA C C C G G A G A G A A G G G G A G A G C A A G G G G G G G A G G G G G A G G G G G C A A A G GCC G A G G A A GACCGGGGCCGGACAAAAGGGGGGGAAAC C G A A G G A G GC CA A A A A A A G G G A A A GAA G G C CAA A G G G G GAA T $T G G G G G G A A G G A A A T A A C C A G G G A A C C G A A A G G G A A G G A G A A$

GAAGGGGGGGAGGGGGAAACCCCAGGGCAAACCAAAAGAGAG GCCGGCAGACCAACCGGAACAGGCATTGAAGCCAAGGCAAAG
 GACAAGGGACCGGAAGGGAGGGGGGAAAAAACCGGGGGAGAA A G G GAA A G G G GAA $A \operatorname{AGGAGAGAGAGACAACGAAAGGAGGAAGA}$ A G A A G A A A A A A GA $A$ A $A G G G G A A A A G G G G G G G A A A G G G A A A G A A$ G G G T T G G A G G G G G A G G A G G A A G G A A A G A G G A G G A A A A G G A G C AAAGGGAGACGACGGGGAAAAAAAGACCCGGGAGAAACAAAG GAAAAGAAAGAGGAAGGAGAAAAAAAGAGGGAGAAAGAAACA AGGGACAAAAGGGGGAGAAGGGGAAGAGGGACAGGCAAGGAC ATATTGGAGCCAACAAGGGACGGGGAAAGACGGGGGAACAAG A G A A G G G G GACGGGAGCGGCCAGGAAGAAGAAAAAAACACAA GGGCACCAAACGAGGGAAGAAAGACAAGAGGGGGGAAAAAAG GC G A A G G G G G A A A G G G G G A A A C A G G G G C C G G G G A A A A A A G G A AAAGGAGAGCAAAAAAGAGGGAGGGAAAGAGAGGAAACCCCA A G G G GAAAAACAGACAAGGGAGAAAAAGAGAAAAA GAAA G GAG G G G A A G G A A A GCGAAAAACAGAA $\mathcal{A} A G G G A G G G G G G G G G G G G G$
 GGGAAGGAACAAAAATACCGGAAAAAAGGAACCATAGGAAAA A G G G G A A G GCCAAAAAAACCGCCGGAAGGGACAAACAAAAA AAAGAGGAAGGGGAAAGGGGAGGAGAGAAATGGACCACAAAG GAC GAAAAAAGGGATGGCCAGGAAAAAAAAAGGAATTCCGGG A A A A G G A A G G A G G A GCCGAGGGCCCAACCGGGGAGAAGAGGG ACAAAGGAAGGAGGAAAAACCAGCCAGAAAAGGAAGAAAAAG A A TAA $A \operatorname{GA} G A A A G C C G A C A A A G G C C A A A G G A G G G G A A G C C C B$ GATGAAAGAGAGGACGGGGAGGGAGGAGGAGACGGAAGAGGA AAA A A G G G G GAAAAAAAAAAAGAAAGAGAGGGGACAGGGGGA
 GAAGAAACCGGAAAAAACAAGAGAGGGGGGGCGGGAGACCCG AA G GAGGACCCAAAGGGAAAAAAAAAAAGAAAGAAGAAGGAG GAAAAGAGGGAAAAGAAAAAGTTGGCGAAAAGGAGGAGAAGA AAAAAGAGGGGACAGCCGGGGCAGGCAGGAAGAGGAAGGGGA A A G GAGACCGGCCAAAACCCCCCGGCCACGGCCGAGGAAGGG A A A A C G G A A A A A A A A G G G G A G A A A GAGGGAAGGGGAAAAAA G
 A G G G G A A G A G G G G A G C C A A G G G G G G A A G G G G A A G G G G A A A A $\mathcal{A}$ GAAGGGAAACGAGAGGGAGAGGGAAAGCAAGGAAGAACAGAG G G G G G G GC C G G G G G GAAGGGGCCAAGGGGCAGAAACAATGAG GAGGACCGAGGGAGAAGGGGGAAAGGAAAAGCAGGAGAGCAA G G G A A A A G GAA A A G G G G T T A A G GACGAAGCAA G G G G G G G A C A GAAGGGAAAAGAGGGAAGGGGAAGGAAGGGACCAGAAGAGAA $A G G C A G A G G A A G A A G A A G A G A G G G G G G G G G A G G A A G A G B C C B$ G GAGGGAAGGGGAGGAAGAAGGGGGGGAACGCCGGGGGGGGA AAAAAGGGGCCAAAAGGAGAAGAGAGGGGAAATCCAAAAAGA GAAGGCCGGGGGGGGAAGGAGAGAAAGAAGGGAGGAAGGGGG AA GACAAGGAAGAAAAAAAAAGGACGGAAGGGGAAAAAAAAC

 AAGAAGGAAGGAAGGAAAAGGAAGGAAGGCCAACCGAAGAGA A A A G G A A G G G G A A A A A A G G A A A A A A A A G CA $A$ A A A G G G A G G G A A G G A A A A G A A GCC G A G A G G GAGGGAGAGGGAGAAACCTXGAG GAAAAAAACGGGGAGGAAAGAACACAGAGAGAAGGAACAAGC C A A A A G G A A G A A G A G A G G G G G A A A G G G C A A G G A A A A A G G G G A AAAAGGAGAAAAGGAAGAGGGGGGAGGGAACGCCCACCAAAG AACGAGAGGAAAAAGAGCCGGAGACAAGGAAGGGGGGGGGAA A T T G G G G A A G G A A A G G G G G A G G G C C C C G G G A G G G A C C G G G G G ACCGGAGAAAGCCGAGGAACCGGAAAAAGAAACGAGAGACCB
 C G A A A A ATTAAGGAAGGAAAAAAAAAAGGAAGGAACAAAAAA

AAAGGAAGGAAAAAAGGGGCCAAAACCAAAAAAAAGGGGGGA
 GAAAAGGCCAAAAAAGGAAGGAAGGGGGGAAGGGGAAGGGGA AAACCGGAAAAAAAAAAAAAAGGGGAAGGGGGGAAGGCCGGA A G G G GAAAAGGAAGGAAAAAAAGGGGGAGGGAGAGACGGCCA GAGGGAAGGCAAAGGGAAGGGGACCAGAAGGAAGAAGCAAAA AAACCAGGGGGGAAAGGCAGAAAAAGGGAGAGGAGAAAAAAA AAGGAAAAAAAGGGACCAGGGCCGGGGAGCCAAGGGGCCGGG G G GAA A GAGAGAAGAGGAGAGAAAAACCCGGCAAAAAAAAAG G G G G GAAAAGGGGAAGGGGAAAAGGCCGGAAAAAGAGGAAAG G GAGGAGAGGGGGAAAAAAAAGGCAGGAGACGGAGAACAGAA AAAAGGAGGCCAAAAAAACAGCCAAAGGAGGCCAACCAAGAG $G G A A C G G G C A C G G A A A A A A A G A G C A G A G A G G G A G A A G A A A A A$ A G G G A A C A C G G A G GAAAAA A G CA $A \operatorname{A} G A G A A A A G G A C A A G G G G G$ A GAAA A G G GAAAACAGGGGGAAAAAGAGGTTGGAAAGAAGAG G G GAGAAAAGGAAGGAAGGAAGGAAGGGGAGAAAGAAAAAAG A G G G G A GAAGGAAAAACAACCGGCCAACCAAAAGAGGGCACG GAAAAAAGGAGGAAAGGAGAAAAAAGGCCAAAGGACACAAGG GAGGGGGAAGGGGAGAACCGGAAAAGGAGGGGGGGAAAAAGA GCAGGAAAACCGGAGGGGAGGAGAACCAGAAGGAGAGAAAGA GAGAAGAAAAAGGAAAAAATTGGAAGAGGGAGAAAGAAAGBA GAAAAGAGAAGAAAACAAGAAGGGAGAAGAGAGAGAGAAGGG AAAGAGGAAAGCAAAAAAAGGGAAAAAAGAGGAAGCAAAGBA A G GCCGAACAGGAGAAGAGGGGGGGCAAGAAGACCAAACGAA CAACCAGAAAGAACCAGAAGGAAGGGAGGAAACAACCCCGGA GAAGGAAGGGGAAGGAAGGGGAAGGAGAGGAAAAAGAAAAGAC AGGGCCAAAAAAGAACGAGAACCGGCAAGAGAAAGAAAAAC G G GACCAACCGGAAGGAAGGGGAGAGACCCCCCCGGGG
A GAA A G G A G G C C A A A G G G G A G G G A G G TAGGAGGGCAAAAGG GAAAGAGAGGAACGAAAGGAAAGGGGGAGCCGGAACCGAABAA A A A A GCAG GA GAGAAAAGGAAAAAACCGGAAGGGAAAGAGAA A AAAAGGGGAAAAGGAGCCAAGGAAGGGGAGAAGGAGAGAAG G GAAAAAAAGAGAAGAAGGACCCAGAGAGGGAAAACCAGAAA
 $A G G G G A G G A A A G G G A G A G G A G G G G G G G G G G A A G G G G G G G G G G$ GAAAAGGGGAAGGGGAAAAAGAGGAGGGGGAGAGGGAGACCG G GAAACCGGAGGAGGAAGAGGGGGGGGGGAGCAGAGAAGAAC $C G G A G A A G G G G A C A A A A G G C C A A A C A G A A G A G G C A G G C C B A A$
 A G G A A A A G GAA $A$ AAAAA $A$ AAACCAGACGGAAAAGAAAAGGGGAC C G G A A A G A G T T A GACGGGGAGAGGAAAGGAACCAAAAAAAG G GAGAGAAAAGGGGAAGGCCGGCAACGGGGCAAAGGCCGAACA A A A GACAAAGGAGAAGGGGAAAAGGAAGGAAGGACCAGAGAA G GAA $A$ A A G GAAAAAGAGAGCAAAGGCCAAGGGGAAGGAAAAA $A G G C C A A G G G G A A A A G A A A A G A A A A G G G A C A G G A G G G A A C A A$ A G GCCAGGGAAAGCCAGGGAAAAGAGAGGACGAAGCAAAAAA A A A A A G G G G G A A A A A A A G G A A G G T T G GA GACCCAA G G GA GA G ACAAAAAGGGGGGGGAAGGGGAAGAAAGAAAGGCCGGAAAGAA GAAGGAAAAGGAAAACAAGACGAAGAAAGGGAAGGAAGACAA ACCCCACCCGGGACAAAAAAGAAGAAACGGGAGTTGGCAAAC C G GCCAAAAAGGGGGAAAAGGGGAGGAAGAAGAGGAAAGAGG A G G A A A A A A G A A A A A G G G G G G A A A A GAAA A G G GAAAAA A A T G AACAACCGAGGACAAAGAAAGAGGGAAGGAAAGCCAGACAAG $G C C A A A G G G G G G G G G G G A A A A A A G G A A A A C A T A A G A A G A A G G$ G GAGGAAAAGGAAACGGAAGGCCGGACAAAGAAGAAAGAGAA A A G A C G G A A A G A G G A GACA $A \operatorname{AAGGCCGGAGGGGGGGAACAGGA}$ GACAA GACCGGTTGGAAAGGGAAGCCAGGGGCCCCAACCGGG GAGCCAAAAAAGGAAGGAGAAGCAAAAAAAAATCCGGGAGGA $A C A G A A G A G A G A G G G C A C A G A G G C C A A G G A A A A A A G G A A C A A$
$A C C A A A A G G C C A A G G G G A A A G C C A A A A G A A A A C G G A G G G G A A$
 A GAGAGAAGGAGAGGAGAACAAAGGCCAAAAACAAGGGACAC GAGAAAAGGAAGGGGAAAAGGGGAAGGGGAGGGAGGGAAGAA
 AAAAAAAGGCCAAGGCCCCAGAGCACCAGCCACAGAGAAGGG A G A A A G G A G A G G A G G G G G G G G A G T T A A G G G G A A A G C A A G A G A
 A G G G G A A A A G G A G A A G G A G A A A A G A A G G G A A G G A A G A G G G G A $A C C G G C C G G A A A A C A C C C C G G G G G G A A C C G G G G G G A A C A A G G$ G G GAGGGGGGGAAAAAAAAGAGGAGGGAAAAAGGAGAAAGAA A A A A G A C A G A A G G G GAA $A \operatorname{AGAAGGGGGGAACCGGAAAAGGAAG}$ GAAAACCCGGGAATTGGAAGGGGAAAGAGAGAAAAGAAAGGA
 A G G G A A A G G G G A A G GAA $A \operatorname{GG} \operatorname{A} A A G C C A A A G G A A A G G G G A A C C A$ G G GAACCAGGGAAAGCCGGAACCAAGAAGAAAAGACAAAGAA
 A A A G A C A G A G G G G G G G G G G G G A A G G G G A G G G G G G G C A G G G G G GAGGGGGAAAACCGAGGAAGGGGAAAAGGAAAGAACCGAAGAG G G G G A A C G A C A A G G G G C G G A A C C A A GAGGCC GA G GA GAG G G A GAAGGGACCAGGAACAGAGTAAAGGAAGGGGGAGGAAGAACA AAAGGCCGGGGAACCAAAAGGGAGAAGAAAAAAAAGGGGGGG A GAAACAAAGAGGGAAAGAAGCAAAAAAAGGACGAAAA GAAA G G GACAAACAAGGGAAAAAAAAAGAGAAAAGAACCCGAGAGA A G A G G A G G A A G A G C C A G G G A A G G G GAAACCCGGGACCGAGA G GAATTGGGCGGGGGGGAGAAAAGACAGGGAAGGAAAAAAAAA AA $\operatorname{A} G \mathrm{G}$ G G A A A A GAGGAACCAGGGACAAGGGAAAAAAATAAAC C GAGGAGAGAGAAGGAAGGGGCAAGACGAAGAGGAAGGAAAA AAACAGACCGAAAAAAAGGGACAAGGGGGGGAAGGAGGACCA A A GAGGGCCGGGGAAGGGGCCAGGGAGAGACGAGACCGGGGA
 GAGCCGAAAAAAAAGGAGAGGAAAGAAGGACTTAAAAAAGGA A G G G G G GA $\operatorname{l}$ GAAAAAGGGGAAGGGGAACCAGAGAAGGGAAGA A G G A A A A A CAA A G G G G GAGAGGGAAAAAAAAAAGAGGA GAAA GAGAAAAGAAGCCACAAAAAAAAGAGGGAGGAGGGAAAAAAA C G A A G A G C A G A G A A G A G G G G G A G C C A A C C G G A A G GCC G G G G A
 GAGACAGGAAGGAAAAAAGAGACAAAGGGCAGGGGGAGAAAC

 AAAGAGAGGAACCAAAAAGGGGGAGAACAGGGGAGGGGAGGG GAACCAGCAGGGGGGAGGGAAGGGGGAGAAGAAAAGAGAAAA A A A A GCAAAGGGGAAAAGGAGGGCCGGAAGAAGGGAAAAAAG G G G G G A G A A G G A G G A G A A A G G A A G G GAGGAGAA GAA GAA G G G $G G A G A A G G A G G G G A G C C G A G G G A A A G A G G A G A A G A A A A G A A G$ A G GAGGAGAGAGGAAAACCAAAAAGCCAAGGGGAAAAGAAAA A GACAGGGGCAGGCCGGCAAACAGAGGGAGAAGAGGAAAAAG GAACCGGAGAAGAAGAGAGGGAAGGGAAAAGGGGAGAAAGAA GCAAAAAAAAAGAGAAGAACAAGGGCCGGAAGGAAAAGAAGA G G G A A G G A A G G A A A G G A A G A A G G G G A A G G A A A A G A A A G GAA A G G A A A G G A A G G G G G A G G G GCCGGCAGAAAAGACAACAA GACA AAAAGAGCCAAGAAGGAAAGAACGGGAAGAAAAAAGGGACAC C G A A G A A A A G G A A G GAAA A A A A GAAAAAAGAAAAGGAAAAG G G G G G GAAAGGGAAGGAGGGACGGCCAAGAAAGGGGGGGGCCG GAAAAAACAACAAAGGAAGGGGGGGCAGAAGAAGAAAGAGAA CAAGGGGAGAAAGAACCAGGGCCAACCGAAGGGGAAAAGGGG GAAGGAAGAGGAAGGCAAAGAAGAAAAGGGGGGAAGGGAGAA A A G A A A A A A G G A T G G G GAA G GAAAAAAAGGAAAGGGAAAAAA $G C \subset A A G G G A G G A A C C G G A A C C A A A A A A G G A A G G G G A G G A A A A$

AAGAGGAAGCCAACCAGAGACGGCCGGGGACAGAAAAAGAAA G G G G G A A T TA $A \operatorname{G} G C C A G G G A A C C G G C A C C A G A A C C G G A G G G A$ A G G A A G A A A A GCAGGAGCCGAGGGGCCAAGGAAGGAACCGGA G GAAGGACCAAAGGGGAGGAACCGAGAAACCAAAAGGCAGGA A G G GAGAGGACGGAAGGGAGAGGAGAAGGAAAGAAGAAAAGA G G A G G A A G G G G G A G G A A A A G G G G A GAA $A$ G C C G G G A C A C C A G A A A A A A G G A A A A A GAAA $A \operatorname{AGGAAAAAGGGGAGGAGGGAAAGGAA}$ AAAGGAAAAGGCCGGAAGGGGAAAAAAGGGGGGCCGAAAAAA A A A G G C C G G G G A A G G A A G G G G C C A A G G G G A A G G G G A A A A G G G G G GAACCGGCCAAAAAAGGGGGGAAAGGAGAGAACACCAAAA A A GA A G G G G A G G G A G G G G G A A G G A G A A C C C A A A G G C A G G G G A ACCAGAAGGAGGGAGCCAAAACAGAGGAAGAAAGAAAGGGGC C A A A A A A A A G G A A G G G G A A G G A A A A A A A G G G G G G G G A G A G A G A GAGAGGGGAAACGGAAGGGGAAAACCGGGGAAAGACAAGGA
 CAA A GA $A$ A $A G G G A A G A G A A G G G G A A G G G G G G A A A A G A A A G G C$ $A \subset A G G G G G G G G G G A A G G G G A G A G G A A G G G G G G G G G A A A A A A G$
 GAGAAGGAGAGAAAGAGGGGAGGGGAAGAGGCACCGACAGAC CACGAGAGGGACCAGAAAAAGCCGGAGAAAAGGAAGGGAACA AAAAAGGAACAGGACAAAAAAAGAAAAAAAAAACCAAGAAAA CAA $A \operatorname{GA} A A A G G G G G G G A A A G A G G A A G G G G G G G G G G C A T A G A C$ C GACACAACGAAAGGAGAGAAGGAACCAGGGGGGGCAAAAGB GAAGGGAAGAAAAGAGAGGAAAAAAAAAGGGCCGGGGCCGGG
 A GAA $\operatorname{A} G A G A A A C A A A G A C C A C A A G A G A A G G A C C G G A A G G A A A$ ACAAAGGCAGGGAGGGACCGGGAGAAAGAAAGGACAAAAGAA T G G C A A A $\mathcal{A} G G G G A G A A G A A G G G G G A G G G G G G A A C A G G$
$C \subset G G G G A A G G A A A A A A G G G G G G A G A A A A A A G G A A C C A A G G G$ GAACCCCAAGGAAAAGGAAAAAGGGAAGGAAGGGGAAGGGGG
 TCAGGAGGAGGCAGACCAAAGGACAAAGGAACCAGAAAAAAG GAAAAAAGGGGAGAAAAGAAAAAAAGGCAAAAGACGAAGACC A A A A A G G G A G G A G G G A A A A A A A A G G G G G G A A C C A A A A G G C C A A A A A A G G A A A A GAGGGAGAGGGAAGAAAGAAGGGAGGAAAA G
 CA $A \operatorname{G} G A A G G G G G G A A A A G G A A G G C C G G G G G G A A A G A A G G G G G$ G G G G G G G G A A GAC $\mathcal{A} A G G G G G G A A A G A G A G C C G G A A G G G G C A G$ A A A G G G G G GAAAA A GAAGCCGGAAGACAAAACGGAGGGGAAAA
 $A G G G G A A G G G G G G G A G G G A A C A A G A G G G G G G A G G G G G A A G A A$ C A A A G A A A G G A A A G G G G A A A G A A A A A A G G GAAACC G GAA G G A A A A G GAACCGGGGAAGGGGCCGGAAGGGGAAAAGGAAAAAAA GAAAAAAAAGGAGGAAAGAAAAGAGAGAGAGACGGAGGGGGA C C CAGAGGGAAGAAACCGGGGAACAGAAAGGGGAACAGAAAA $A C C G G C A G G G G G A A A A A G G A A G G C C A G A A A G G G G G A G B A A A A$ G G G G G GA GAGAGGGGGAAGACGGCCGACAGGAAAAAGAACAA A G GACAAGAGGAAAGGAGGAGGGGACCAAAACCGGAAAGAGC C CAAAACAACCCCAAAAAAGGAACAAGGGGGACAAGBAACCA GAACAGGCCGGCCAACCAGCAGGAGGGAAGAGGAAAAAAAAG GAAGGCAAGGGCCAAAACCCAGGAAAGGAAGGGGGAAGAGGG AACAA $\mathrm{A} A \mathrm{~A}$ A A GAAGGAAAGGGAGGAAGGGGAAAAGAGAGAGAG A A G C A G G G A G A A G A A G A A G G G A A A A G G A A A A G G A G G G G G A A A ACAATGGGGAAAGGGAAGGGGGGACTAAAGGAGACCCAGGGA AAACAGGGGCCACGGGGGGAAGAAAAGGGAAGGGGAAAAAGA G G GACACAAAAAAGGAGCCGGAACCAGAACCAAAGGAAGGGA
 A A C G A G G A A C C A A A A G G A A G G A A G G C C G G A GA GA G A G G A C C G AAGGAGAGGAAAGAGAGAAAAGACCAGAACCAAGBAAAAAAG

G G G G G G A G G G G A T A A G G G G G G G A A A G G C C G GACA $A X A G G A G A$ GAAA A G G A GACGGAGCCAAGGTTGGGAGGAGGAAAAAAAGGG G GAAACAAGGGCCAAAAAAGGGGCCAGAACCCAGAGAAGGGG A GAGGAAAAGGGGGGGAGACCAAGGGGAGGGGGGGAAAAGAA AAAAAAGAAAAGCGGGGGGAGAAAAGGGAGAAGAGAAGGGGG G G G G G A C G G G G C C G G A G A A T A A A A A G G G A G G G G G G A G G A A A A A A G G A A A A G A A A A G A G G A G GAC C G G G G A A A G A A G G G G G G G G G GAAGGGGGAAGCCCAAAGGGAGAAGGAGGGGAAAGGAGGGGG A A A A A A A A A G G A A A ATTCCAGTTAGACCAAAGGGAAGGAAAG AACGAAAAAGGGAGGAGGCAAAAAGCAAGAGAGGAAACAAGG
 GAAAACCGGGGAAAAAGAGAAGAAGGAGAGGAACCAACAACA
 TAAG GAAGGAAAACCACAGAGAAGGAAGGTTAAAAAACCGGA A A GAAAAGGCCGGAAAAACCAACAAACAGGGAGAAGAGGGGA A A A A A G G G G G G G GAA $A \operatorname{AGGGAA} G G G G A A G G G G A A A A G A A A A A G$ GCCGGAAGGAAGGAAAAGGGGAAAAGGCCGGAAACACAAA G G $A$ GCCAGAGCCGAAACCAACCGGGGAAGGAGAACCAAAGAGAGC CAGGGAAGGGAAGCCAGAGGAGAGAGGAAGGGGAAAGGAAGA GCCAAGCGGAGAGCCTTGGAAAACACGCCAAAAGGGAGAAAA A GAAGAGCAAAAAGGAAGGAAACAGGAGGGGAAGGAAAGGGG G G G G A A A G GAAAAGGGGAGCCCCAAGGCAGAGGAGCAGAGGA G G G A A GACAGAGGCAAGAGGGAACAGAGAGACCCCGAACAAA A A A A C G A A G G A A G A A C CAA A G G G A A G GAA G GACAAAA A A C C G C GACACCGAAGGCGACCAAGGAGAAAGGGGGAAAA GGGGGGC G GAAAGGGGAACAGACAAGGAAGACGCCAAGGGAAAAAAGGC AACACGGAAAAGACCCGGGAGGAAAGGACAAAAGAAGCAAGAA A AC G A A G G GAA $A \operatorname{G} \operatorname{A} A A G G A A G G A G A A G A G G A A G G G G G G G G C C C$
 G G GAGAGAAAAAAAGGAGGGAAAAGGAGAGGGGGGAAAAAGAG $A A C G A A A A G C A A G G G G A G A G G G G A G G G A A G G A A A G G A G A A G A$ A G G GAAAGGAAGGGGGGGGGGGAAGAAGGTTAGAGCCGGGGA AAA A G G G G G GAGGAAAAGGAAAGAAGGAGAGACAAGGGAAAA A A A G G A A G G G G A A G G A A G G A G G A G G G G A G G A A A A A G G G G G G A A G G A A A A A GCC G A G GACAGAAGGGAGAAAAGGGCCGGA GA GA C CAG G GAGGCAAGAAAGCAAAAAAAGAGAAAACAAGGAGGGG GAAAAAGAGGGGGAAGGACAACCAGAGAAGGAGAACAGAGGA GACCGGGCAGAAGGAAAGAACGGGGAAGGGGCAGGCCGAAGC A G GCCGGAACCAAGGAAAACCAACCGGAAAAGGAAAACACAA
 GAAGGCCGAAGGGGGAAAGAAGGAGAAGGAAGGGAAGGAAAA $A G G A A G G A G G A G G A G G G G G G G G G G G C C G G G A G A A G G A A A A G G$ G GACCGGGGGGAAGACCAAGGCAAGCAGAAGGGGGACAGGBA G GAGGAGGAAACCGGCCAGAAAAGGGGAAGGGGAAAGTAAAG G G G G G G G G G G G G G A A G G A A G G A A A A A G GAA A A A A A G G A A C C C
 GACGGCCAGACGAGACCGGAGGGAAGAAACCGGGGAGAAAAB GAAAAAACCGGAGGGCCGGCCAAGGGGCCAGGAAAGGAGAAA A A A C A GAGGAGAGGGGGCAGGAAGGGGAAGGAAGGGAAAAGA GAGGAGGGGCCAAAAACGGGGGGGGGAAACCAAA GGGAGGGG A A G A G A A G G G G A G C C G G A G G A G G G G G G G G G G A A C C G G G G A G C A G GAAAAGAAAAAGGGGAAAAGGAAGAAGACAGGGAAA GACA C G G A C G G G G G G G G C C A G A A A A $\mathcal{A} G G G A G G G G A G G G A A G A G G G G$ G G G G G A G G A G A C A A G A C G A G G A A A G G G A C A A G A G A T A GAA A A A A A GAGGGGGGGGAGAGGAAGGAAGGGAAAAAAAAAACAGAA G G GAGAAGGGAGGGGGAAGAAAGGAAGGAAGAAAACCGAAAA G G GAACCGGAAGGCCAAAAGGGGCCAGCCAGAGAGCAAAGBC C G G G A A A G GAAACAGGGAGAGAAGAAAGACCGGAAAAABAAC AAAAAGGAAGAAGAGAAAACCGGAAGGGGAAAAAAAAACGGA

A GAAAAGGGGAAGGAAGGGCAAAGGGGAGAAGAAAAAACAGB GAAAACCGGGGGGCCTTGGAAATGCAAGAAGAGGAGGCAAAC CAGCCAGAAAAAAGGGGAAGGTTAGAAGGAAAAAGGAAGAAA
 GAGAAGGAAGGGGGAAAAAACAGGAGAGGAGAGAGAGGACAA A A G A G A G A G G GCCCCGGGAGGAGAAGAAAGGAAGGCCGAGBC C C C C A C C A A G G A A G GAAAGCCACGGAAAAGAGAAAGGGAAAA GAAGGGAAGAACCAAGCCCAAGGGGAAAAAAGGGAGAAGGGG GAAAGGGAAGGAAAAGGCCGGGAAACAGGGACAAAGGAGCCG GAAAGAAAAGGAGAAGGACCCAAACAGAAGGAGGGAAAAACC CAGATTTAGAAAAGGAGGGGGGCAAGAGGGGAAAACCA GAAA ACCGGAAGGACAAGGAAAAGGAAGAAACCGGAACCCAAAAAA A GACGGGAAAGAAAAAAGGGGAAAAAAAAGGAACCAAAAGGG GAAGGCCAAGGCCAAGGAAAAAAGGGGGGGGAAAAGAAAGGA AAAGGAAAACCAAGGGGCCAAAAGGGGAAGGAAAAGAAAAAG
 $A G G G G G G A G G G G G C C A A A G G A A G A A A G A A G A A A A A A C G A A G G$
 $G G A C A A A A A G G A A C C G G G G G G C A A A A G A A A G A A A G G A C A A A A$ G G G G G G G G G G G A A A A A A A GAGAAACGAGAAGAAGGC GAAAA G GAAAAAACCGAAAGAGGAGAAGGGGGGAAGAAGACGGAGAAA
 GAGCCGGAAGGAAAGAAGGTTAACCAGGGACGAAGCCGGGGA A G A A A GA G A A G A A G GAGAGAAAAAAGGGGGACCAGCCAAGGG AAGAGAACAGAGGAAGAAAAGGGCCAAAAGGAAAGAAAAAAG GAGAAGGAGAGAAAAGGGAAGAACAAGAGGGAAGGAAGAGAG G G G G G A A G GAAAAGAGGAAAGAGGGAGGGGGGGAAAACCCCA A A A A CAGAAAGCCCCGGAAAAAACCAAGGAAAAAAGG
G G G GACCAAAGGGGAGGAGGCCCAAACAGACCGGAAAAGGC C G GAGGGCCAACCGGGGAAAGACAGAAGAGGAAGGAAAAGAC
 AAAAGGGGAGGAAAAGGAAAAAAAGGGCCGGGGGGAAAAGGG GAAAAGGGGGGAACCGAGAAGAGGAGACAGGGAGACAAGTTA GAGGAGGGGCCGGAAAAAAAACCGGCCCCAAAAAAGGGAAAA A G G G G A A A A G G A A G G A A G G A A G G A A G GAA $A \operatorname{AGGGCCG} G A A A A G$ GAAGGGGAAAAAAAAGGAAAATTGGAAGGGGGGAAAAGAAAA A G GAAAAAAGGAACCAAGGAAGGGGCCGGGGAAAAAAAAAAG G G GAAAAGGCCGGGGGGGGAAGGAAAACCAACCAAAAGAAAA A A A A A G G G G A A G G G G A A A A G G G G G G G G C C A A G GA G A G G G A A G
 $G G G A A A G G G G G A A A G G G A A A C G A G G G A A G A C G A C C G G C C G G A$ A G A A A G G A A C C A A G G G G G G G G T T A A G G C A A G A A G G A A A C G A A G G GAGGGAAGAAAAACAGAAGGGGAGGGGAAAAGAAACAAAA $A G G C A G G A A G G A G A A G G A A G G A A A G A A A A A A A A A A C C G G G G G$ $G C C C C G G A G A G G G A C A G G G G A A G G A A G G G A A A A G G A A A A A C G$ GACAGGACCAGGGAGAAAAAGGGCAAAGGGAAGAGGGGGTTG A A A G A A GCCGAAAGGGCAGAGGGCCAGCAGGGAAAAGAACAA GAAAAGGAGGGGGGAGGGGAGAGAAGCAGAAGAGGAGGGGGG A G GAAAAAAGAAAGGAAGCAAAAAAAAAAGGAAGGGGAAGAA G G G A A A A G G G GCC G GAATTAAAAAAAAGAAGGAACAGAAGA G $A C A A A A A G G A G G G C A A A A G G A A A G G A C A A A G A A G A G G A C G G G$ G GAAACCGGGGACCAGAAGAAGCCCCAAGCAGGCCCCGGGGG GAGGAGGCCAAAGAAGAGGCAAAGGAAGGAAAGAGGGAAGAC C G G G G G G A C C A A A C C G G G A GAA A GAGAAGCCGGAGAGGAAA G GCCGGAAAAGGAGAAGAGGCCGGAAAAACAAAGGGAGGGGGA $A G C C A A G G A A C C C A A A A G G G A G A A A G G G G G G A A A G G G A A G B A$ GAAGACAGAGGAAGGGAAGCCAAAAAAGGGGGAAAGGAAAAG GAAAAGGAAAAGGCCGAAAAACCAGAAAAAAGGGAGAGGGAA $C G G A G A G G C G G G G A A G A G G G G G A T T A G A A G G G G A A G G C A A A G$

GAGAAAGGAGGGGAAACAGGGGGGGAGAAAACCCAGGAAAAG G G G A A A A G G G G A GA A G G GACAGAAGAAGGAAAGAGGGAAAAA TAAGGAAGGAAAGAAGGGGAAAAGGAAGGAGCCAAGAGGGGG AAGGGGAGAAAAAAAAAAAAGAAGAAGAAGGAAGGAAAAAAA A GAACCCGAGGGGGGGAAAACCCGAAACCGAGGTTAAAAGAG A GAACGGGAGGGAAAAACAAGAACCAAGGAGAGAAAGAGAAG

 $A G G G A A G G G A G G G G A A A A G C A A G G A G G A A A A C C G G A C G G G G G$ AGAGAGAGAAAAAGGCAAGACAAAAGGAAAAAGGAGGGGAAA AAGCAGACCAAAAAAAAGGGGGGCCAAGGAAGGAAAAGAAGAA G G G G G C C A GA G A G G A A GAA $A \operatorname{GCC} C A A A A A A A A A A G G A A A G G G G$ G G G A A G G A A A C A A G A G G A A G A G G G G G G C C A A C G A A A A G G G G G GAGAGGGCCAAGGGGGAAGCCGAGGGAAGAAGGCAGAAAAAA A G G G GAAGACCCCAAAAAAGGGGAACCAAACAGGGAAGGGGG A GAGGGAGGGACAAAAAACGGCCGGGAGAAGAAAAAGAAGGT A GAGGGAGAAAAAAAGGGGGGAAAAAAAGAATTGAGAGAACA A G G G G A A A GAA $A$ A $A \operatorname{GAAACCAAGAAAGGAAGGGGAGGGCAGAA}$ CAAAGACAAAAGGGGGGAAAAAGGGGGCAGGGAAAGGGAAAA G G GCCAAAGAGGGAAGGGGAAGGAGCCAGGGCCGAGAAAGAA A G G G G G A A A GAGGAGAAAAAGGGGGAAAAAAAG
$113123000-9 A A G G G G C C G G G G G G G G A A G G A G A A A A A A G G G G A$ AAAGGAACCCCCCAAGGAGAGCAGGAAGGAAAGCCAAAAGAA A C C G A G A A G G G G A G A G G A A C C A G A G G A G G C C G G G G C C G G G G G A G GCCAAGGAAAGAGAAGAAGAGAAAAAAAGGGCAAAGAA GA ACAGAGAAAGGAAAGACGGGGCCGGAGGGGGAAAAGAAAAAA ACCAACCGGCCAAAGAAGAAGAGAAAAAGGGGGACGGCAGAAA A A G G G G G G G A G G G G G G G G G G G G A A A G G G G C C G G A A A A G G A A G G GAAAAGGAACCAAAAAAAAAAAACCGGGGGGAAGAAAGAA A A A A A A A A A A A G G G G G GAGGAGGAAGGCAGGCCAGAGGGGAA A A A A A A G A A C C A A A A G A G G A A A G A A G G G G C C A A C C A G G A A A G G GAGGAACCGGAACCCCGGGGAAGGGGTAGGAAAAGGTXAAG GAAGGGGAAGGAACCAAGGAAAAAACCTTCCAAA GACAGGGC AAAGGCAAGGAGGAAAACAAAAAGAAAGGAGAAGAACABAAG A G G A A G G A A G G A A A G G G C A A A G G A GACGGAGGGAAAACC G GA AAAAAACAACCGGACGGCCGGAAAAAAGGAAAAAAGGGGGGG G G GAAAAGAGAAACCGAGAGGAGAAAGACAGAAGGAAAAGAG GAGGGGGCAGGGAGAGGAGAGAAACAAGGAAAAAAGGGACAA A A A A A G G G G A A C C G C C G A G G G A G G G G A G G A GAGCAA A A A G A A A A A A A A A C C G G A A G G G GACAAGGAAAAGGCCGGATGGGAAAA GAGAAAAACAAAAAAAAAAAAGGAACATAAACCAAAAGAAGGG G G G G A G G A G G A GAAA A C G G A G A A G G A A A C G G G G A A G G G G C C A GACAAGGCCGGAACAAAGGAAAAAGAAACGGGGAAAAAAAAA A G GAA A G G A A A G G G GCCAAAAGGGGAAGGAAGAGGGGAAAAC CAAGGGAAAAAGGGGCCCAAAGGAACCAAGATACCAGAAGAA A GCGAGAGAGGGGGAGGGGAGACAGGGAAGGGAAGAAAAAAA CAAGGTTAATTCCAAGGGGGGAAAACCGAGAAAAAAAAAAAG G GAA A A A G GAAGGCCGGGGAAGGAGCCAGAAAACCAAGGGGA AAAAAGGAGGAACGAAAAAAACCAGCCAGAGAAAGGAGGGGG A A GA $\mathrm{A} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAGGCCCCAAAAAAAAAGAGGGAGGA A GACCCCAACAAAAAGGGGAGAAGGAAACAAGACCAGGAAGG GAAGAAAGGAAGACCGAGGGGAAGGAAAAGGAAAGAGAAABC A A G A G A A A A G GCC G A G A A A A G GAGGGGGGAAAAGGCCAAAA G GAAAAGACCGGGAGGGGGATAAAAGGGGGCCAAAGGACAGAA $A G G G A G A G G G G A A A A G G A A G G G G G G A A T T A G A A A A G G A A A A A$ A A A A G G G A A A A A A GAAA $A \operatorname{AGGGAAAGCAGAAAAAAGAGAGAAA}$ A A A A A G A A A A CAAAAAGGGAAGAGACCAGAGAAAAACAGGGG GAACGGGCCAGCCGGGGCGACAGAGCAAGAAGGACAGCAAAA AAAACACGGAAGAAAGGGGGAGGGAAAGGAAAGGGGGGACAG

GAGAGGGATAAGGGGGGGAGAGGAAGGGAAAGGAAGACAAAG GAATAAAGGGAAGGGAAAAAAGGAAGGGGCAAGGGAAGGGGG GAGGGGGAAGGAAAAAAGGCAAAAAAGAACCGGGCAGGAGAA G G G GAGGGGAGGGGGGACCGGGGGGAAGGGAAAAAAAAACCC $C G G A A A G A G A G C C G G G G C C G G A A A A A A G G A A G G A G A A G G G G C$ C G GCCCAAGAAGGAACCAAAGGGAGAGCCGGAAGGAGGAAAA A A A A A A A G GAGAGGAGGAGGAAACCAAGGGGCCCCAAAAAAG AAAAAAGATAAGAAGAGCCGGGGAACCAAAAGAGGCCAGAAA A G G GAGGGGGGGGAAAAGGGGAACACCGGGGAAGAAACAAGB GAGGGGGGGAAGAGAGGAGAAAAAAGGACGAACAACCCAAAA
 A A G G A G A A G G G A G G G C C G G G G G G G G G G A A G G A A A G A C G C A G G G G G A A GA $\operatorname{A} G A A C C G G A A G G A A C C G G A G G G C A A A A C G G G G G G A$ G G GCAGGCCAAGGGAAAAGGGGAGAAAAAAAGGAAAACAGGA AGGAGAAAAAAAACCGACCGGGGGGCCAAAAAAGGCCAAGAG GAAGGAAGGGGCCAGCCGAGAAAAACACAGAGGAACCAAAAG GAAGGAAGGAAAAGGAAAACCAAGGGGGAAGAAAAGGAAACB G G GAACCGAGACCCAAGGAAAGGGAACACAACCGAAGAGGAA $G G A A A A A A A A A A A G G A A G G G G C C G G A A A G G G A A A A G G G G G G G$ GAAGGGGCCCACCACCCCAAGGGAAAAGGAAAGAAAAGAAAG GCGGAAAGGAAGGGAGGAAGACCGGAAGGGGAAAAGGCAAGA
 G GAGGAAAGAGCAAAAGAAAGAGACGAGGGAGAGACCCAA GA GAAGAAAAAGGAAGACCGGACAGAGGAACAGGGAGGGGGGGG $G G A A A G A G G A A A A G A A G G G T T G G A T G A A G G A A A G A A A A A C C G$ G G GAGAGGAGAAGCAGAGAAGGGAGGACCGAGGAACAGAAGA G GAGGAAGGAAGGAAAGGGCCAAGGAGAGAGCCGGGGAACAG GAAAAGGGGTTAAAAAGCAAAAGAAAAGGGGGGAGAGGGGAG G GAGGGGGGCCGACCGAGGAAAAAAGGCCGGCGAAAAGAAAC
 A G G A A A A $\mathcal{A} G G G G G A A G G A A G G A G G A A G A A C C G A A G G A G G G G G$ $G C C A A A A G G A A A G A G C A A A G A C C A A A A G G A G G A A G A C G G G G G$ A G G G G GAAA A A GAAAAAGACAAACCAAGAAGGGGGGAGAGGC
 GCGGAGAAGAAGAGGGAGGTAAAGGCCGAGAAAGAAGGAAAA GAACAGGGAGGAAAAAAGGCCGGAGAGAAAGCCAACCAAGGG G GATTGGGGAAGGGGCCGAAAAAGAGGGGGGAAAGGGGGGGG
 $T G G G G G G A G G G G G G A G A A A A G G G A A G A G A C C G G G G A A G A A A A$ A G G G G G G A A G G G GCC G G G G A A G G A A A A G G A A C C A A C C A A G G G $G G G A A G G G G G G A A A A A A G G G G A A G G G G G G G G A A A A A A G G G G C$ CAGAGCCAGGGGAAAAAGGAGGAGGGAAGAGGGAAAAGGGGG GAAGGAACCAAAAAAGACCAACCAGGGAAAAAAAAGGAGCCA A G A A A A A G G G G A A GAAAAA A GA $A \operatorname{A} G A A A A A G G A A A G G A G A G A A$ A A A G GAGGGGAAGAGGAGAAAAAAAAAAAGGGGGGGAAAGAA A $G G G G C C G G G G G G A G G A C C A A G G G G G G G G G A A G G G A A A A G A A$ AAAGGCCGGGGATAAGGAACCTTGGGGAAGGAAAAAAAGAAA A G G GA $\operatorname{A}$ GAGAGAAAAGACAGGACAAAAGAGGGAGAGGAAAAA GAAGGCAACGGGGAATTGGAAGGCCGGGGAAGGGGGCBAAAG A G G G G G G A A A A A A G GAACC G GAAAAAGAAAAAAGAGAAAAAC CAACCAGAAGAGAAGGAAAGGAAAGAAAACCAGATGGAGGAA
 CAACCGGACAAGGGAGGAAAAGAAAGGACAGCCGGAAAATAA GAAGGGGAAAGGGAAAGTTCCAAAGTAAAAACAGGGAAAAGA GAGGAGAAAAAGGAAAGCCCCAAAAGGACGGAATACAGGGAA G G A A C G G A A G G G G G G A G A G G G A A C A G G G G G G G G G G A C A A G G A
 CAAACAAGGAAGGACCCGGAGGAAAAAAAAAGGAAGAAAGGA AAACCAAGGGGGGAAGGTTCCAAAAGGCCCCAAGGAAGGCCG

G G G G GACCCAACCGGAAAGAAAGGAAGAAAAGGAAGGGGGGG GAAAAGGGAGGAACCAGGAAGCAAGAAAAGAGAAGGGABCAG A A G GAAGGGCAAAAAAAAGAACCAGAGGGGGGGAAGGAAAAC $C G G C C G A G G C A A G G G A G A G A C A G G G T T G A G G G G C A G G A A A A G$ G G GAAGGAAAAAAGAGAGGAGAAAGAGGGAAGGCCAAAAAAG
 A G G G G G GAGACGGGAAAGGAAGAGGAAGGCCAAAAAGAAAAC
 GAAACGAAGGAAAGGAAGGGGGGAAGGCCAGAGAAGGACAAA GAAGGGGGGAGCAGAGGGAAGACGGACGGACGGAGGAGGGGA A A A G GAA $A \operatorname{AGGCCGGCCGGCCAAAAGAGACCGAGGCAGGGAC}$ CACGGAAGGCAAGCAGGGGAACCAGGGAAAACCGGGGAGGGG G G G GAGGAGAGAGAGAAACAGGGGGAAGGAAAAAAGGGAAAG A A A GAAAGGGGGGAAGGGGGGAAACATAGGGGGAAGGAAAAA G GAACGAAAAGTACAAAAGAAAAAACCCCCCGAGAGGCCGGA GAAACAAGGGGAAAAAAGGAGAGGGGGGGCCAAGGGGGAAAA ACCAAAAAAGACCGAGAGGGAGAAAAAGGAACCGAAAGAAAA A TA $A$ A $\operatorname{A} G A A A A A G G G A A G G G G G G G G A G G A A C A G A A C C A A A G G$ GAAGGGGGGAAGGAAGGGGAACCGGGGAAGGAAAAGGCCGGG G G G G A C C G GAGCAA $A \operatorname{AGGAGGGGGAAGGAAAGGGAAAGGGGAG}$ GAGCCAAGAGAGAGAAAAAGGGAACGGGGAACCCCAG
GAATAGGAGAGAGGGAAAAAAAAAAAAAAGCGGAGGAAAAG GACCAGGGGCGCCAGGGGGAAAGGGGGAAGGAAAACCGGGGC
 G G G G G A A A A G GCC G G GACAGAAAGGACAAAAGGCAAAACA GA G G G G G G GAGGGGGGGAAGGGGACGGACGGAAAAGGGGGGCCA A A GAGGGGAGAGGCAAAGAAGGAAGGGAAGAGACAGGCCGGG GAA A G A A G G GAGGGGGAAGGGGAAAAAAAAACGGGGAAAAGA G G GCCAAAGGGAACCTTAAAAATGGGGTTAAGGGGGAAAAAG $G G A A G G G A G A A A G G G A A G G G G A A A G G A C A A G A G G G C C G A A G G$ G G A A A G G G GAGCGGCCCAGGAGGAAAAGGAAGGGGAACAAAG GAAAGGGAACCAAGGAAGGCCGGGGAAGAGGAACAAGGGCCA GAA A G A A G A GAGGGGGGGAAAGGAAAAAAGGGGGGGGAGCCA GA $A$ A $C A A G G G G A A A A A A G A G G A G A G A A A A G A G G A G G G A A G A A$ GAAAAGAGGGGGAGGCCAGCCAGGGACAGGGCCAGAGAAGAA A A G G A G G A A G G A G A GCCAAGGGGGGGGAAGGAAGGAAAAAG G AAAGGCCATCCCCAAAAGGGAAGGGGAACAAGGGGATAAGGG
 A A A GAAAAGCAAGGAAGGGCCGGGACCAAGGAAAAAAAACCA A A ACCCCAAAAAAGACAAAAAAGGAGGAGGGGGAGGGGAAGA $A G G A G A G G G G G C C G G G G G G G G A G A G G G C C A G G A G A G A G G C C A$ A A A G G G A A A G A G G G G A A A A A A G G G G C CAAAAAA A GA GAA $A$ A G G GAAGGAAAGAAGAAAGAAGCGCCAAAGAAGAGGAACAAAAAA GAAGGGGAGAAGACCGAAAGGGGAAGGAACCAAGGGGAAACB G G G A A C C G G G G T T A A A G A A G G G A A A G G G G G GA A A G G G G G G A G GAGAGGAAGGGAAGACCAAGGGAACCACAAGAACCCCGACAA GAAAGAGGGGAGGGGGGAGAAGGAAGAGAAAGGAGAAAAGAA GAAA A $A \operatorname{A} C \subset G G G G G A A G G G A A A A G G G G G G G A A A A C G G G G G G A$ A G G G G A A A GAAA A A A A A G GAGCAGAAGAGAAGGGGAGAAGGC CAAAACCAAAAGGGACAAAACAAGGAAGGGGGGAAGGGGGGG $G C C A A G G A A G C A A G A G G G A G G G G G A G A A A G G A A G G G A G G G G G$ A G GAA A GCCAAGGCCCCGGGGAGGGAAAAGGAAAAGAGACAC C G A A A A A A GA $\operatorname{A} C A G A G A G G G G G G A G A G C A G G G A A A A A A A G G C$ $C \subset A G G G G G A A A G G A G A A G G G G A A G G G G C C A G A A G A A G A G A G A$ GAAGGAGAAACATGGCCCCGGGACCAACAGACAAGGAGAAAA GAAGGAAAAGGAGGAGAAGGGAGAGGAAAGGGGCCGGCAAGB $G C A G A C C A G G G G G G G G G A A G G A A G G G G C C G G G A G A A A C A A G G$ GAGCGGGAGAGGGGGAGTTGGGGGAAGAAGAAAGAGAACAAA AAAAAAGAAAGAAAAGAGAGGCCCCGCAGAAAGGACAAAGAA

GCAGGGGAAATAGGGGACCGGAAGGCCACGAGAAGACAAAAG
 AACGGAGCCAACCAAAAAGCCGAGGAGACGGGGAGGAAAAAC AAAAGAAGGAAAGCCGAAAGAGGAGCAACCCAGCCCCACGBC A A GAACAAAGGTTGAGGGGCCGGCAGAAGGAAAGAAAAAAAG $G C C A A A A G A A A G G G G A G A A A G A A A A A G C X A A G G G G A A G G G G A$ AAAGGGAGGAAGAAAAAAAAGAAAACCAGGGAAAAAGAGAGAA ACAGAAAGAAGGGGGGAGAACCCAGAAAAGGGAGAAAGAGGA G GAA GAAGAAAAAAAAAGAAAAAAAAGGAGACAAAGAAAAAA A GAGGAAGGAAAAGGGGAGGGAAGGAAGGACGGGGAGGAAAA GCCAGAAGGAAACCCGGAGAAGGAAAACACAAAGGAAAAAGAA A G G G G A T G GACGGAGGAAAGAAGAAAAAACGGGAAAAAAGAC A A A A GCCCCGGAAGGGGCCGGAAGGACGGGAGGGGGGCAAAA GAAGGCCAAAAAAGGAACAAAAGGGAAAAAAGGCAGGGAAAA G GAACGGGGGGAGACAAGGAGGAAAAGACGAGGACAAAAGAG A G G GAACTAGGGGCCGGAGGGGGGAAGAGAGAAGGAAAAAGG GCCGGAAGGGGGGAAAAGGAAGGAAAAAAAGAGAAAAAAAGG G GAGAGAGGAGAAGGAGGGAGAACAAAGGAAAGGAGAAAAAA $A G G G G G G A A G G G G A A G G A C G G G G C A G G G G A A A A A G G G C A G A A$ A A G A A A A A A G G A A A A G G A A A A A G A A T T A A G GAA A A G A GAAA A A G GAAAAGGAACCAAAACAGAGGGGGGCCGGGGACTTCCGGG A A GAGAACAGACGACAGAGAAGAGGGAAGAAAAGAAAGGGGT T G G G GCAG GAGCAGGCCACGGGAAACCGGGGAGGGAGAAAAG GAGAATTAGAAGGGACCAGAGAAGGAAAGCAAAGGAGGAGAC A A A A GCCAGGGAAAAAAGAAGGACCAAAAGGAAGGGGAAA GA
 AAAACGAGAACAAAAAGAAAGAAAAAGAAGACCGGAAGAAAA A A A C G A A A A G G AC G GAGGAAGAGTAGGAAGAAGGACCGAA GA A A A G G G G T T G G A G A A A GAA $A \operatorname{GAAGAAGGCCAAAGGGGGAAAAC}$ CAGAGAAGAGACACATTCCGGGGAAGGTTCAACACAAGAGAA CAA $A \operatorname{GGG} \operatorname{G} A A A A G G A A A A G G A A C A A A G G A A G G G G A G G A C A G B A$ AGGAAAAAACCGGAACAAGGAGGAAAGGAGGAGAGAAGGGGG
 GAAGAGGGGGGAGGGGAGGAAGGGGGGGGAAGGAAAAGAGGG
 A G G A A A A G G A G G G A A G G A A GAAA A A A A A G GACAAAA G GA G C C A A GAAGCACCAGCAGATTAAGGAATTTTCCAAAAAAGGGAAAG GAGGAGAGGAGAAGGGGTAACAAAGACGGAACCGGGAAAGAA G G G A A G A A A A A G G A A A C G G A A G A C C GAGAGGAC GA G GAAA G G GA GAACCAGAAGAAAAGGGCAAAGGGAGAAAAAGGGGGGCCC G G G G GCGGAAAGGGGCCAAGGGGGGGGAGAACAAAAGGAAAG GAAGAGGGGGAAGGAAGGAGGAAACGAGGGGCACAAGATCAA GACAACCGGGAAGGAAAAAGAGAAGGGAAAACAAAACGGGGA GAGAAGGGGGGAACAAAGGAATAAAGGCAAGGGAACAGAATA AACGGCCGAGGAAAAAAGGAAGGGAAAAGAAAAGGAAGAGGG
 G G G G G A A A A GAGGA A TAA $A \operatorname{AGGAGGAAA} G G G A A G A G A A G G G G A$ G G G G G G G G G A A A G T A A A A G A A G G G GAA G G C CAAA A A G C C G G A TGGAGGGACGGGGAACCAACCAAAAAAAAAACCCCTAAGAAT TGAAAAAGGCCGGCAGGGGAGAGAGAAAAGAGAAAGGGGGGA GAGAGAAAGGAAGGAAAAACCAAAAGGGGGGAAGGCCAGAAA A A A G G G GAACAGGAAAACCAAGGGGGGAAAGGAAGGGGGGGA A G G G G C C A A G G A T G G A A A A A A G A C C A G A G A G G G A A A G G A G A C AAAAAAAGGGGGGAGCAAAAGAAAACCAACCGGTTGGAAGGC
 A A G G A A GAACCGGAGGAAAGGGGACCCCCGGCCTTGGAAAGA A GAA $A C C G G A G C A A G A G A A C C G G G G G G A A G G G G A A G G G A A A A$ A A A C C C A G G A A G G G GAA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G A A A A A A A A A G G G G G G G A A C A$ A GAGGGGCCAAGAAGAACCAAAACCAGGGCCGGACAAGACAG

GAGCCGGGGGGGAGGAAAAGGCCAGAGGGGGGGAGAAGAAAG
 A G G A A A A A A A G G GAGAGAGACAGGGAAAAAAGAGAAACAGGG $G C C A A G A A A A A A A A G G A G G A A A G G G G G A A G G C C A G A A C C C C G$ G G G G G A A G GAAAAAGCCGGGGGCGGGACGAGAAAAAGAAGAA A G G G G G G G G G G A A G G A G A A G G C A G A A A C C A A A A G G G G C C G G A GAAGGAACAATGAAAAAACGGGAAAAAGAGAGGAAAAGAGAA AGAGAAAACCAAACAAAGGAAAGGAAAGGGAACACGAAAGGA
 $C A G C A G A A A G G A A A A C C A A A A G G C C G G G A G G A G A A A A G G G G A$ A G G G G A A G GAATAA $A$ G G GAAAAAAAAAAAACCAA G GAAAGGCCG G G GCCGGAGGGAGAGGAAGCCGGAGAAGGAACCAAAAAAACA A A A A A G A A A A GAGAGGCAGAAGACAGGAAGGGGAAATAAAAA $A C C C C C G A C A G G A G A G A A C C A G G G G A A A A A G A A A A A A A A G A G$ A A GAGAAGAAAAAAGAAAAGGGGGGAAAGGGAAGGCCABAAG AA $A G G G G A G G A C C G G G A A A G G C C G G A A G G A A G G C C G A A A G G A$ A A C G G GAGAGGGGAAGGGGAAAAGGCCAGGGGAGBAAAAAAG A A A A A G G G A A T A A A A A A A A G G G G G G A A GAAAACTTAAAACC G GAAGAAAAAAAGAGGAGACCCGGTTAGAACACAAAGGGGGCA GAGGAGAGGGGGGCCGGAAGGAGGGGGGAAAGGAAACAAGAA TGAAAAGGAGAGGGAGGGAAAGGGGAAGGAATTGGAA
GAAAGGAAGACCGGAGGAGAGGAGGGGGAACCGGGGGAGCG A A GACGAGGCCGACCGAAGGGCAGGGGAACACAGAGGGGGAG G G G G G A G G G A A A A A G G G A A A A G G A A G GAAAAAAAGGAA GAAAA GGGCCCAAGGGAAAAAGCCGAGGCCAAAAGGCCGGGAAATXG GAGCGAAGGCAAAAAACAACACCAAGGGGAACGAGAACCAAT TAAAAACAGAAAAAAGGAGAAAAGAGAAAAGGGGGGGGAAAG G G G G A G A G G G A A A G G A A G G A A A A G A A G G G G G G A G A G A G A G G G A A GCCAAGGGGAAAACCCCGGGGACGGGAAAAAGGGGGGGAA AAAAAGGAAAAGGAAGGCAAGGAAGACGGGGGGTTAAGAAAG GAGGGGGAAGGAAAGAAAAGGACAAGGGGGGGGAAAAAAAGA A G GAGGCGGCCAAAGGGAGAGACAAAGGGAGAAAAGGGGGGG GAAGGAAAAAGGGCCAAGGAGAAAAGAACAGAAAAGGEGAAG GAAGGGGAAAGGGCCGGGGCCGGAAGGGAAAAAAAAGAAA GA G G G G A G G A A A A G G G G G C A G G G A A G G G G A A G G G G A GAA A A C C C CAAGGGGAAGGGGCCAAGGTAGAAGAGGATAGGTTCCGAAC G G G G G GAAGGACAGAACGAGGAGGGGAAGAAGAGAAAAAGAGA CAGGAAGGGAAGAGAGGAAAAAAAGGGAACAAAAATTGAAGA A A A A G G A A GAA $A \operatorname{G} \operatorname{A} A \mathrm{G} A A A A A G G A A G A G A G C G A A C C T T G A A G G$
 A A A A A A GACGAGAAAGAGGAAAAGGAATTACCAAGAAGAAAC C G GAGAAGGACGGAAGGGGCCGAAGAAAGAGCAGAAAGAAAC $C T T A A A A G G A G G G G G G G G G G G A G G G A A G G G A A C A A G A G A A A G$ A GAACACGACAGGGGGAGAGGGGCAAAAAAAAAGGAAAAGAA $A C C C A G G G A G A A G A G G A C C G G A G G G A A G G A G A G G A G A A G G B A$
 G GAA A A ACCGGCCGGAAGGGAGAAGACAGGGGGGGCCCAAAA GCCCAAGCCAAAAGGAAAAAGACGAAAGGGAAAACGGGGGGG
 G GAGGAAGGCCAACCGGGGAGGGAGAACXAAGGAGAAAAGGG CAGGGCAAGAGAACAGGAAAAAAGGGGAAAAGGAACCCCGBA $A C C A A A A G G G G A A A A G G G G A A G G A A G G G G G G A A G G A A C A A A A$ A C C G G G G G G A A A A $\mathcal{A} G \mathrm{G} G \mathrm{G} A A A A A G G A A A A G G G G A A A A A A G G G G G$ G GGCCAAGGAAGGGGGGAAAAGGGGGGAAGGAAAAGAAAAAA AAAGGGGAAAAAAAAAACCCCAAGGGGAAGGGGGGCAAAGAC CAA $A \operatorname{GGG} G \mathrm{G} A \mathrm{~A} G \mathrm{G} G \mathrm{C} A \mathrm{~A} A A A A A G G G G G A A G G A A G G A A G A G A A A G$ $A C C G A G A A A G A G A G G A C G G A A G A A A G G A C G G A G A A A A A A A A G$ $G G A G A A C G G G G G G G A A A G A A G A A A C A A G A A G A C A A G A A G A G G$ A GAGAGAGGCCGGAACGGAGGGGAGGGAGACAGAAGGGGGAG

G G GAGAGGGGGAAAGAGGGCCGAAAAAGAAAAAGGAAAACCG AAAGGCAGGAAGGCGGACCAAGGAAAAGGAAGGCCAAAACAA AAGAAGGACGGACAGGGGAGAGGAAAGAAAGCCGGAAGAAAA ACCGGGGGGAAAAGAAAGGTTGGAAGAGGAAAAAACAAAAGA AAAAGGGCCCCGGAAAAAGAAAGAGGGCAGGGACCAAAAAAA $G G A G G A G A G G G A A A G G A G G A A A A G G G G G G A A A A A G A G A G A A G$ G G G A A G G A A G G A A A A G G G G A A A G G A A A A A CA G GCC G GA G G G A GAGGGGGGGAGAGCCAGAGAGGGAGAAGGCCGGTTGAAACAA A A A A A A A G GAAAAGGAAGGAAGGAAAAGGAAGAAACCAAAAA GAAAGGGGGAACAGGAAGGGGGGGAAAAGGGGGGGCAAGCCC C GAGAAAAGAAAAAGCAAGGGGGGAGGGAGGAGGGAGAACAA GAAAAAGGGGAGAAGACAAGAAGGAGAGAAACAAAAAAACAG
 A A A A C A A A GAA A GCAGAGGAAAAGGGACCGAAGACAAAAAAG $A C C G A A G A A A A A A A A G G A A A A G G G G A A A A G A G G G A A A G A A G G$ GAAAACCAGAAAAGGCCGGCCGGGAAGAAGGAGGAAAAAGAA A G G G G G G A A G G G G G GAA A A GACCCAAAGAGGGGAAAAA GA G C C G A G A A A G A G G GAAAAAAGAGGGCCCCGGGAAAGGGGGAAAC C G GAGACAGGAAAAAAGAAGGGAAGAACAGGAAGGAAGAAAA A G G G G C A A A A A $\mathcal{A} G G G G G A A G A G A A A G G C C G G A A A A G G G G G G A$ $C G G A G G G A C G G A A A G A A C C A A A A G G G A C C A A G A A A A G A A A A C$ A G G G G A A C A GACCCCAGGAAGGGGGGAGAAACCAAAAAGCAA $A G G G G G G A C A A G G A A A A G A A G G A G G A A A G G G G A G G A A A A A A G$ GAAAAA $A$ A $A \operatorname{AAA} \operatorname{A} G A A A A A G A G A A G G A G A G G G G G G G G A G G G G G$ G GATAGGGGAGGAAAACGAGGGGAACCAAAAAACCGGGAAAG A A A A A A A A A GAAAAGAGGAGAAACGAGGAAAGCAAGAAAAG A G GAGAGGAGGAAGGAAAAGAAAGGCGAAGGGGAAGAGAAAG GAGAGATAGGAGAAAAGAAAAAGGGGGAATTAACCAACACAA CAA $A$ A A $\operatorname{A} A G G G G G G G A G G A C A A A G G G G G G A A G A G G G C C C A A A$ AAAGGGAAGAGGAGGAAAAGGGGAAGGGGGGAAGGAACCCCG G G GAA $\operatorname{A}$ GAAGGAAAAAAGGAAAACCAAAAGGCCCCCCAACCG G G GAAGGGGCCAAGGGGCCAACCGGGGCCAAAAAAGAAAGGA A G GCCGGAAGGGGAACCAAGGGGGGGGAAAAAAGAAAAAGGG GAAGGGGGGAAGGGGGGGGGGGGGGGGCCAAGGGGAAGGGGA A G G G G A A G G G G G GCC G G A A A A G G A A C CAAAA A GAAC A A A G G G G G G G GCCGGGGGGCCAAAAAAAAGGAACCAAAACCAAAAAAA A G G G G A A G G G G G G G G G G G G A A G G G G G G G G G GAA A G C C A A A A $G$ G G G G G G G G GAA $A \operatorname{GGG} \operatorname{GA} A G G G G A A A A G G G G A A A A A A G G A A A A G$ G G G A A A A G GCCGGGGGGAAAAAAAAAAAAAAAAGAAAAAGAG
 GAACCAAAAGGAACCGGGGCCGGCCAAGGGGAAGGGAAAGGG GAAGGCCAACCCCAAAAGGCCCCGGGGAAAACCCCAAGGGGG GAAAATTGGAAGGAAGGGGAAGGAAGGAAGGGGGGCAAAAAG G G GCCAAGGGGAAAAGGGGGGAAAAGGGGAAGGAAGGABAAA A A A C C G G G G G G G G G GAA $A \operatorname{A} A A A G G A A G G G G G G A A C C G G A A G A A$ A A A $\mathcal{A} G A A G G G G G G G G G G G G G G T T A A G G A A A A C C A A A A A A G G G$ GAAGGGGAAGGAAAACCAAAAGGAAAAGGAAAAAAGAAACCT TAATTGGAAGGAAAAAAGGAAAAAAAAGGGGGGGGAAGAAAA AAA A G G G G G G G G GAACCAAGGGGAAGGGGCCAAAACCGGGGT TAAGGGGAAAACCAAAACCGGGGGGAAAAAAGGAAAAGGGGC CAAAAAAAAAAAAAAGGCCCCAACCAAAAGGAAGGAAAAGAA A A A A A G GAAGGAAGGAACCGGGGAATTAACCAAAAGGGGCCA
 $C G G G G G G G G A A G G A A A A G G G G G G G G A A G G A A A A T T G G G G G G A$ A G G A A A A A A G G G G A A A A G G A A A A G GAAAAGGGGCCCAAAAAA A GAGGAGAAGGAGAGAAGGGAAAAAAATAGGAACCGGGAGAG C C C GAACGGGGAAAAAAAAAAGGAAAACCGGGGAGAAGAAGAG C G GAC C G $\mathrm{A} A A A C C G G G G G G A A A A G G G A A A A A G G G G A A A A G G G$ G GAGGAAGGGGAAGGAGAAAAAAGGGGGAGACAGGAAAGACG

GAAGGAAGGGAGGGCAGAAGGAAGGATAAAAAGAGCCGAAGA GCAGGAGAAGAGAAAAGCCGGAAGGAAGGAAAGGGGAAAAAA C C C A A G G G G A A G G G G G G G G A A G G G G G G G G A A G G A A A A A A A A G G GAA A G G GAAAAGAAAGGCAGGGAAGACGGGGGGAAGGAGG GAACCCCCAAAAGCAAAGGAAAAAAAAGAGGAA GGAGCAGGA GAAA A GA $A \operatorname{G} \operatorname{A} A A G A A A G G A G A G G G G G A A A G A A A C A A G G C A G G G$ GAAAAAAGGCCGGGAAGAAAAGACCAAGGAGAAAAAAGAGGA GTTGGGAAACAAACACCAATAACGAGAGGAAAAAACCGGGGG $A C C G A A G A G A A G G G A G G A T A C C C G A A A G G G G G G G A G G G A A G G$ GCAGAAACCACAACCGGAAAACCAAGGGGAGCAGGGGGGAGG $A C C C C A A G G G A A G C C G G T T G G G G A G A G A G G A G A G G A A G G G G G$ A GACAAAGGCCGAAAGAGGGGAGAAGACAAGCGGGGAGAGGA A G GAACCAAAACCGACAAAGGAGCCAGAGCCGAAGACGAGAA ACCAAGGGGAAGGCCAAAAAAAAAAAGAAAAGGGAAGAGCCG AAAAACCAAGGGGAAAGAGCCGGGGGGAGAAAAATAGGAAAG GAAGAAGAAAGAGAGGAAAAGAACCGAAAGGGAAAGGCAAAG G G G G A A A G GA GAGGGAAAAAGGGACTTGAGAGAAAAGAAAAA G GAGAAAGAAAAGAAACCCGAGAACCAAGAGGAGGGGGGGGG $G C A A G A G G G G A G A G A A A G G A A A A G A A A G G C A A G C G A A G G G G A$ A G GAACCAAAAGGGGAAAAGGCCAAAACCAGCCCCAAAAAAA G GAAGAGTAACGGATAAGGAAAAGGGGGGGAGAAGAG
A A GAA $A \operatorname{GGA} A A A A A C C G G A G G G G G G A G G A G A A A G G G G G A A A$ GAAGGAAGAAGAACGGGAAGAAGAAGAAGGGGGGGAAAACAG G G G A A G G A A A G G G G A C A A A GAGAAGAGGGGACC GAGAAAA GA GAGAAGAAAAAGGCAGGGGGGAGCCAAGGAAAAAAGACAAAA CAAA $A$ A A T TAA A A A A G G G G A GAAAAAAAGCCGGGGA GAAA G G ACAAAAAGGGGAGAGGGGGGGGGCCAAAAGGAGAAGGAAAAA ACAATAGAAGGAAAAGAAAAGAGAAGGAGGGGGCCAAGGCCG A G GAGCCAAGGAACAGGGGGAAAGGAAGGCCACAAGGGAGAA AAACCAAAAGGGAAAGGGGAGGAAGAGGGGAGGGGGGCCGAA $A G G C A A G G A A G A A G G G G A A G G G G C A A G A A A A C C C C G A A A A G A$ $A G G G A A G G G A G A G G G G G A A A A G A A G G G G G G G G G A A A G G A G G G$ G G GAA $A \operatorname{GA} A A A G A A A G G A A G G A A A A A A A A G G A A A A G G A C G A A$
 $G C C A G A A G G G A C A A A G A A G A G A A G A A G G G A A A A A A G A G A A A G$ A A C A C C C A G G G G G T T G G A A G G G G C C A G A G G A G G A G G G G G G G A CAGAGGGAAGGAGAGAGCAAGCCGGAAGAACAAGAAGGGGAA A A A A A G GAA $A \operatorname{A} A A A G C C G G A A A A G G G G G G G G G G A A A G G A A A A$ G G GCCACAGGACCGGAAAGAAAAGGCCAAGGAGCCGGAAGAG GAGGGGGAAAAAAAGAAGGGAGGACGGGGGGCCGBAGAAAAG GCCGGGGGGGAACGGAATTAAGAGGGGGGCCGGAAGGAAGAG GA $\mathrm{G} G \mathrm{G}$ A A A A C C C C G A G G G A G G G A G G G G G G A G G A G G C C A A G G G GCCCCGGGAAACCGGGGGGGGACGGGGCAGAGGGGAAAACCC C G GA G G G G GACAACCGGCAGAAGAGAACXAGAGAGAGGGGGA $G C A C A C G A G A A A A A A G G A A G G A G G G A A G G A C G A G A A G A C A C B$
 G G GAGAAA GACGGGGGGAAAACCAAAAGGAAAAGGAAAACCB GAAAAGGAACCGGAAGGCCGGGGGGGGAAAAGGGGCCGGGGA A G G G G A A G G G G G G A A G G A A A G A A C C G G G G G GA GAAAA A G G G G G G G G G G G G G A A G G G G A A G G A A G G G A G G G G A A G G C C A A A G A G G G G GAA A A C C G G GAAAACGAGAGGAACCAGAAGAGGAGAGGAA $G C C G A G G A A G G A A C C A A G A A G A G G G G A G A A A A G G G A G G A A B A$ G G G A G A G A G T T G G A A C C A A GAGGGACCAAAAGGAAAAAAAAG G G GAAAAGGGGAAGGAAAAAAAAAAGGAAGGGGAAAAGGGGG G G G A A G G A A G G G G A A G G C C G G A A G G A A A A A A G G G GC C C C G G G G G G G G A A C C G GCC G GAA A G G G A A G G A A A A A A G G A A A A G G G G A
 T G G A A A A $\mathcal{A} G G G G G G G A A C C G G G G G G A A A A G G G G A A A A C A A A C$ $C G G G G G G A A A A A A G G G G A A C C A A G G C C A A A A A A G G A A A A C C A$

AGGCCGGGGGGGGAAAAGGAAGGAAAAAAAAAAAAGGCAAAA $A C C G G G G C C G G G G A A A A G G G G A A G G G G A A G G A A A A C C B A A A A$ A G G G GCCCCAAGGCCAAGGGGAAGGCCGGCCGGGGAAGGTAC CAGAGAAAGAAAGGAAACCGGGGAAAACGCCCCGACCAAAAC $C G A G A G G A C A A G G G G G G G G A G A G A A A G A A G C A A G A G A G G G G G$ G GCGGCACAAAGGTAGAGAGAAAGGACAAGGAGAGAAAAGBA AAAAAGAAACAAAGGGGGAGACAAAGGGACCGGAAAAGGGGG GAAGGCAGACCGAAACCAAAAACAACAGAGGAAGGGGGAAAA
 AGGACAGCAAAAGGGGAAAAAGGCCGGGGAAAAGAGAAAAAC AAAA A A A A GAA $A \operatorname{A} G \mathrm{G}$ GAAACGGAAGGGGAGAGGAGGGACAAGA GACGAAGGAGACCCCAACCGGAAAAGAAGGAAACCAAAGGGA A G A A A A A A A G G A A A G G GCCCCCAAAGGGGAAGGAGGAAAAAA GAGAAGGGGAGAGGGAAGAAAGGGGGGAAAAAAGAGAAAGAA CAAGGAAAGAGGGAAATCAAACAAGAAAACCAGAGCCACAAA ACCGGAAGGAAGAGGGGAAAAAACGGGGGCAAAAACAGACCG G G A A A A A A A $\mathcal{A} G A A A G A G G A G G G G G G G G G G A C A G A A A A A A A B A$ A G G G G G G G G G G A A A A A GCGGGAAAAGCGGGGCCGGAACAAAA $A C C A A G G A C A C A G G G A A A C G A G G G G A G G A A G G C G G G A A A G G A$
 G G GAAGAAAGAGGGGCCAAAGAGAAAAAACCGGAACAAGAAG G GAAAAGCGCAGGGAAAAAACGAGGAAAGAGAGGAGAAAACC $C \subset C A A C A A A G G A A G A G G A A G G G G A A A A G G A G G G G A G A C A G A A$ ACAGGACGGGAGACCGGAAAACAGGGAAGACGGAAAAGAAAG GAAGGCCGGAACCGGGGAAAACCGGGGAGCCAGAAGACAAAA A A A A A A A G G G G A A A G G A A G GAGAGGGAGGGAAAGGTTCAAAA A G G G GCCAACCAGGGGGAAAAGAGGAGAAAAAGGGGAGAGGC CA G A A A A A A A A GAAAAGCAACAGACAGAGAATTAA GAAAGGC C G G GAA A A GCCAAGGGGCCAAAAGGGAGGACAAAAGGCCABA G GAAAAACCAGAAAAAGGGGAAAAAGGGGCCAGAGGGGAACB GAAAAAAGAGGGGGGGGGGAAAAAAAAGGAAGGGGGAAAAAG G G G G G A A A A A C A A A A C C A A A CAACCGCGGCCGAAGAAGAGAG G G G GAAAGGGACCACAAAGGAGGAGAAAAAAGGGGGGGAAAG G G G A A T TAAAAACAGGGAGAACCGGGGAAAAAACCCCGAAAA
 GAAAA $A \operatorname{A} A A A G G G G A G G G C A G A A A G G A A A A G G G G A A A A G G G G A$ AAACCAGAGAAAAGAAAGGAAGGAAAAAACCGGAAAAGGCCA AAAGGCCAACCGGAAGGGGAAGGAAGACCGAAACAGAGAATA G G G C A G A G G A G A A A A A A A A A A G G G G A A A A A GAAAAAA A A C C A G G G G G A A T T G G A GAAAAGGACAACCCCGGGGACAGAAAGTTG GAGAAAAGGGGCCAGAGAGAAGAGAGGAGAAAAAGAGAAGAA A G G G G G A A A A A G G G A A A G A A A G G G G C G G A A A A A A G G A G G G G G GAAAAGGAAAATAAGAAAAAAGAAAACGAAGAGGAGAAAGAA

 G G G A A A A G G G G G G G G A A A A A A A A A A C CAAAAAAA A G GAAAA G G G G G GAA $\operatorname{G}$ GAACCGGGGAAAGGAGGGGCCAGGAGAAGGAGAA A G A A A A A A A A G GAGGAGGGGGGGAAGGAGCAGAAAAGAAAAG G G G C A G G G G GAGGAAAAAGGGGGAAGAGAAAGAAAAGAAAC G A G G A A A A T TAA $A \operatorname{A} A A G G A A G G G A C A G G G G C A A G G G G G T T A G A$ ATAGGGGAGAGAACCAAAAGGCAGGGGAAAAAAGGGAAACCG G G G G G A A G GAA A G G GAAGGGAAACGAACCGAAAAAAAAACAA $C \subset C A G A A G G G G A A G G G G A T G A A A A A C A G G A G C C G G G G C A G G A$ G G GAACGGAAGGGGGAGCAACGGAAAAGGAGACGAAGAAGGA A A A A A A A A A A GAACCGAAGAAGGAAAGAGGAAAGAGGGAAAG G G GAGGCGGAAAACCGAGGCGAGGAAGGACCAGGGAAGAAAA G G G G GCC G GAACG GAGAGAAGAGACAC GAAAACCC GAGAGAG G G A A C G G A A C C G GACC CA GAGGGGGAGAACCAAAAAAACCAA GAGAGGACCCAAAGGAAAAGGAAGGGGAGCCGGGGGAAAGGG

GAAAAAATTGGGGCGAAGAAAAAGGAAAAGGGGAAAAAAGGG GAAAAGGAAAAGGAAAGAACGGGGGAGAAGGAAAAAGAAAAG GAAGGAAGAAACCGAGAGAGGGGGGACAGAAGGGGGAGAGGA G G G G G GAA A A A A A A A C C G G G GAAAAGGGGGGAGGGGAAAAAA
 A G G G G G GCC $C$ G $\operatorname{CA} A G G A A G G A A G G A A G G G G G G C C G G G A G A A C A$ G G A A A A A A A A GCCA G G G A A A A G G T T G G G G G G G GAA G G C C A G G GAAAAAACCGGAAAACCCCGGAACCGGGGAAAAGGGGAAGAA A G A A G A C G G G A A A $\mathcal{A} G G G G G G A G G G G C C A A G A G A G A G A A A G A A$ AAACAAAGGGAGGAGAAAAGGGGGGGGAAAAAAAGCCGAAAC $C T T G G G G C A G G G A A A G G G C G G A C A A A A G G C C A A A A C C G G G G C$ C G G G G G G A A A C G GAAA A A A A GAAAAAAAACAAAAGCCAAGGA $A G G G G C C G G A G G G A G G G A G G G G A C A G G C C A A G G A G A G B A A A G$ GCCAAGGAAAACGAGGAGGCAAAAAAAAGAGCAAAAAAAGAA $A C C G G G G A A A G G A G A C C G G G A G G G A A G C A C G G A G A G A A A G G A$ AAAAGGGGAGGGGAAAACAGAGAGGGACAGAGGCAAAAAGAA AAAGGAAAAAAAAGGAGGGGAGGCCAAAACAAAAAGGGAAAG GCCGGCAAACCAAAAGGAAGGAAAGAGAGAATTGGGGCAAAC AAAACGAGACAGAGAGATACAAAGACCGAAGAGAAAGAAAAA A A A C C A A G GAA A G G GAAAGGGGGCCCCGGCCGGAAAAAAAAA AGGCCAACCAAAAAAGGGGCCCCGAGGCAGGAAACAG
A G GAA A A GAGACCAAAGAAAGGAGGAGGAGGGAAAAGAAAA G G G G G G G G G A G G A A GAGCCGGCCAGGGGGGGGGAAGAAAAAG GAAAACCGAGAAGAGGGCCAAAGAGCCAGAGAGGGAAAGCCG GAAAAAAAAGAGCGGAAGGAGAGACAAAGAGAAGGGACACCC
 AAA A G G GCCGGGGAAAAAAGGAGAAGGGAGGGGAAAAGGGGG G GAGGGGAAGGAAAAGAGAGGCCGGAACCAGGGAAAAAACAC CAACCAAGGAAAAGAAAGAGGAGGGGGGGGGGGAAAAAAAAC C C C G A G G G GCCGGCCAGAGACGGGAAAAAGACCAAGGAAGGG G G A G G A C G A G A G G A A A G G A A A G A G G A A G G G G G A G A G G G G G G A AAAGGGAAGGAAATTAAAAAAGAAGCAGAAGGGGGCAGACAA G GACCGGGGAGAACAGGGGGGGGAAGGGGCCATAACCCAGAC CAAGGGGAAAGAGGGGGGGAAAGGACAGGAGAAAAGGAAGAA A A G G G G GCCAGAAACGAAGAGGAGAAGGGGGGAGGGGAGAAA A GAAGGCGGAAGAAAAAAGAGGGAAAACAAACCAAAAAAAAA AACCCCCAGAGAAGGAGGGAACCGGGGGACCGAAAGAGAAGG A G GAAA A A GAA $A \operatorname{A} C A G G C C A G C A A G G G A G A G A G G G G G G A A A G$ GAAA A A A A G G GAGAAC GAAA A AAGGGAAGAGGGGAAAACACCG AA $A$ A T G G G A A A G A G GAACAAAAAAAGGGGGAGGGAGGA G GA G GAAAAGGAAAAGGCCGGAAAAAAAAAAAAGAAAAAGGGGGGG G GAGGAGGGAAGGAAGGGGTTAGCAGACGGGAAGAAACAGAG AAAGGGGCCGGGAAAGGAACCAAGGGGAAGGCCGGCCAAGAA A G G G G A A G G G G G G A A C C G G G G G G G G G G A A A A A A A A G G A A G G A $A G G G G A A G G G G G G G G G G G G G G A A A A G G G G G G G G G G A A G G G B A$ A G G G G A A A A G GAACCAACCGGAAGGCCGGAAAAGGGGABAAA $A G G A A G G G G A A G G G G G G G G G G A A G G G G G G G G C X A A G G G A A A G$ G G G G G G G A A G G G G G G G GAAAA A G G G G G G GAAAA A A GAA CAA $A$ G G G GAGGTTGAGGCCAGGAAAGAGGAGGGCCAAGGAAGGGAA A G G G G A A A A G GAGAAAACAAAAAAAGAGAAGAAGACCGGGGA $A C C G G G C G G G G G A A A A G A G G G A A G G G A G G A A G G C C C C A A A A C$ C C C G G G G G G G A G G G G G GAAA A G A A GAAAAAAA A A A G GCC G G C C C C G G G A C C G G G G C C C C G G G G G G A A A A G G G G G G A A G G A G G G C C C AGGAGGAGGAGGGAACAAAGGGGAGAAAGGAGGCCAAAGAGA G GAAGCCAAGGGAGGACGGAAGGGGCCGGCAGACCAAGAAAC AACGGACAAACAACCGGAATAAAGGCCAAAAAAGAGGAGGGG G G G G G G G G G T T A A C C G A G G G G G G A G G G A G G G G G A G A A A A G G A TAAG $A \operatorname{G} G \mathrm{G}$ G A $G A G G A G A G G G G G A A A A G G A A C A A A A G A G A A G A C$ C GAAAAAGAAAGAGGACAGCAGAAAGAGAGGAAAGGAAAGAC

A A G G G G A G G G GCCAAGGGGAGGGAAGGCCGGACGGAAAGGGA

 GCACAGAAAAAGAGGAAAAGGGAGAGAGGAGCAGATTGAGAA A G GAGAAGGGGGGCCAGAGAGAAAGAAGGGGGGAAGGGACAA A GACCGGGGGGCCGGAAGGGGAAGGGGAGAGAAAAAAAAGGT TAAAAAAGGGAGGGAGGACGAAGCCCCAGAGAAAAAGAGGGG GGACCAGCAAGAACCGAAGAACCAGGGAGGGAAGGCCGAAGG G G G A A A A G G G G A C C C G G G G A C A A A GA G G A A G A A G G A A G G G G C $C \subset C A A G G A A G G G G C C A A G G G G G G G G A A A G G G A A G G G A A G G G G$ AAAAAGGAAGGAACCAACCGGAGAGGGAAAAAAAAAAAACAA CACGGGAGAGGGAGGGGGGAAAAGGAAAAGGAAAAAAGAGAA $A C C A A G G A A G G A A A A A A A A G G A A G G A A G G G G A G G G G B A A A A A$ GAAGGGGAAAGAGAGAGAGAGGGCCGGGGAGGGCCGGAAAAC C G G A A A A G G GAA A G GAAGGAGAGGGCCAAGGAAGGACGAAAG GACAGGAAAGGAAGAGGCCGGGAGACCAGGGCCGGAAGAGAA G G GAAAAGAGAGGGGAACCAAAAGAGAAAACAAGGCCGACAA AAAGGGGGAGAGAAAAACCGGGGAAAAAAAGGGGGGGAACAA AAAAAGAGGAAAAGGAAACTAAAGAAGGGGAGAAGAAAAGAC CAAGGAAGGAAGAAACAAACCAAAAAAGGAAGGAAGAAACAC $C C C G A G G G G A A A G G A C C G G A A G G C A G G G G G A A C A C A G A G G G A$
 $G C C A A G G A G G A A G G A G A G A T T G G G G A G A A A A G A A A G G G A A A G$ G G G G G A A C C A A A A C C A A A A GAAAGGCCCCAGACCAGAAAGAG A A G G G A A A A G G GA $A \operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} G A A \operatorname{A} A A A A C C G G A A G G G G G A A A A$ AAAAGAACAGAGAGGAAAAAAGGACAACGGGGGAGAAAACAA G G G G GAAGACAGGAGTAAAAAAAAAATAAACAAACAGCAGAA GAAGGTACCGGGGAAGAAAGGGGGGCCGGGGAAGGGAAAACA TAAAAAAGGAAGAAAGGTAGGAACCAAGGAAAAACBAAGAAG
 A G G G G A A A G G G CAA A G A G G A A G A A G CA AGGGAAGAGAAAAAA G G G G GAA $\operatorname{GAAAAGGAGGGAAGGAAAGAAGGGGGGAAGGCABAA}$

 $A C C G G C A A A A A A G G A G A A A G G A A G G A G A G A G A A A A A G G G A G G$ G G G A A A A GAGAAGAGACGGAGCCAAGGCCAGAAAAGGCAACA
 GAAGGATGGGGGAGGGGGGAAAACCCCAAGGAGAAAACAAGAA

 AAGAAAGACGAGAAAGGAAGAAGAAGGCCGAGGCAGAAAACA A $G \mathrm{G} G A C A G G G G G G G G G G G G A G G A G A C C G C G G A G A A G G A A A A G$ A GAGGGGGACCAGGAAACGAAGGGGAGGGGGGGAACACAAAG G G A A A A GCACAGGAAAAAGGGGGGGGGAAAAGAAAGGAGAGC A ACGAGAAAAAAAGACCGAAGGGAAGAGAAAGGCCCCTTGAA GAACCGAGGGAAGCAAAAGGAAAAAAGGGGATAAAAAGAAAA A A A A A A A G A A GAGAGGGAAAAAAAAGAGAGGAAAAGGAATTC $C \subset C G G G G A A A A A C C C A G C C G G G G G G A A A C G G A A G A G A A G A G C$ ACGAAGGGGGACCCCGGAACAGGAAAAAGAAGGAGAGAAAGG GAGGGAGGAAGGAAGGGGGAAAAGGAGAGAAGGGGACAAAAA G G GAGCCAAAGAAGGAAGGAAGGGGAAAGAGGCATCCAGAAG GAAGGCAAACCACGGAAGGAAGGGGCCGAACAAGGGGGGGGG A G G A A G G C A A GAGGAGACAAAAAGAAGGGAACAGGAGGAAAG GATAACAAAAAAAAGAAGAGGCAGGGAGGACAGGAGGGGACA A G GAA A A G GCCCAGAGGAAAGGACCGGAAAAAAGGACAAAAA A G G A A G G G G C C G A A G G A G G G G G G G A C C G G G G G G A A G G G G C C A

 G G G G A T TAAGGAACCGGAAGGCCGGGGCCGGGAGGGGAGAGA

G GAGAGGACGGGAAAGGAAGGCAGGGAGGAAACAAGAAAAAA
 GAAGGAAAACAAACCAGGGAGAGAGCCCAGGGGGGGAGGGGG GAAAAAAGGAGGGCGGGGAGGAGGGAAAAAGGGAAGGGGGGG AA $A G G A A A A G G A A A A A A G G A A A A A A G G G G C C G A A A G A A A A A G$
 GAGGAGAGGAACCCAGACAGGGGAAGGAAGCAAGBAAAGAGAA G GAG $A \operatorname{GA} A G G G G G G G G C A A A G A A A A G G A G A G G A A A A G G G G G G A$ A GAAAAGACAAGAAGCATTACGGGCAAAAAAAGGGAAAAGGA AAGGACCAAAAGGAGAGGAGAGAAAAACCGAGGAAGGCAGGG
 A G G G G A G G G A A A A A A A GCCAAAGGGAATTCAGGGAGAGAA G C CAGAGAAGGAAAGGAGAGGAGAGAGAGAAAGGGCGGAGAA GA G G G A A A A A G G G A A A G A GAA A G C C G G G G GAA A A C GA G C A G G G A G G GAAAAGGAAGGGGAAAAAAAAGGGGAAAAAGAGGGAAAAG G G G G G G GACGGAGGAAAGGGGAGGGCACCGGAGAGGGGAGGG G G G A A G G A A A A C C G G G A A A C C A GAGGC G GAGAA A A G G A G G A A G GAGGGGGAGAGGCCCCACAAAAAAAAAACCAAGGGGGAACA GAAGGAAGGAAAAAGGAAAAGACGACAAGAGCAAAAAGGGGA A G G G G A A A CAGAAAGGGAAAGCGCCAAAAAAGGAAGGCAGAAA AAACAGGGGAAAGGGCCAGAGGAAGGGGGGGAGGGGG
A G G G A G G G G G G G A G C C G GAGAAAGGGGGGGAGAAGGGA GAA GAGGGGGAGGAGGAAAAGGTTTAGAGGAAAGGGAAAAGAAGA G G GAGGAAGACGAACACGAGAGGAAAGAAACAGAGGGAGAA G G G G GACCA G G G GAA A A A A G A A G G A A GGGGGAC C G G C A C A G G G A GAGGAAAGAAGGGGCCAAACAGGGGGCCAAGGGGGAAAAAA G GAGGAAAAGGGAGGGGAAACAAAAAGACAAAAGGAAAAAGG $G C \subset C C G G G G A A C C A A A A A A A A G G G G T T G G G G G G G G G G B A A A G$ G G G A A A A G GCCAAAAGGAAGGGGAAAAGGAAAAAAAAAAGAA AAAGGAACCAAAAAAAAAAAAGGGGGGGGGGAAAAAAGGGGG GAAGGAAAAAAAAGGAAAAAACCGGGGGGGGGGGGAAAAGBC $C C C A A A A G G A A A A A A G G A A G G A A A A A A G G G G G G A A A A G G G G C$

 G G G A A G G A A A A G G A A A A G G GAGGAAGGGAAGAAGGAAAACAA A A C G G A A C C A A G G G G G G G G G GCCAAAAAAAAAAA A G G G GCC G G G G G G A A G G A A G G A A A A G G A A G G A A G G G G G G G G G G A A G G T T C C G G G G G G A G G G G GAAAAAA A A A A A G G G G G G GAA A A GA G GA G GAA $\mathcal{A}$ GCCGGACAAAGGAAAAAGGAAGGAGCATAGGGGAAGAGAAAA A A GAGAGGAAAGACCAGAAAGAAAAAAGGGGAAAAAAAAAAA GAAAAAGGAAAGGAAAAGGAAGGAAAACCGGGGAACACAGAA A A G A A G C G G A A A A G A A A A A A G A G A G G G A A A A A A G G C C A G G G A AGGGGAAAGAGGAGGAAGGCCCCAATTGGAAGGAAAGAGGAA A GAAACAGGAACCGGGAGAAGAAAAGGCCAAGGAAAAAACCA C A A A A A A $\mathcal{A} G G G G G G G A A G G G G A A G G G A G A G G A A A A G A A G G A A$ A A GA $A$ A A $A C G G G G G G G G G G G G G A A A A G A A A A A A G G G G C A A A G$ A G G G A G G G G A A A G A A A A G G A G G G A A A A A G C C A G A A G G G G G G G AAAA A GAGGAAGGGGAAAGCCAAGGGGACAGAGAACAAGGCA

 A G GCCGAGAAGCAGGAAGAGAAAGGAAAGAAGAGGAGAAAAG A G A GAGGAAGACCAACCAGGGGGCAAAGAGAGAGAAAAAGAA A G A C A G G A G C A A C C A A A G G A A A A G G A A G G G G G A G G G A G G C C A AAAAAAGAGGGAAGGCCAAAAGGCCCAAAAGGGGAAAGAAAG GAAAAAAAAAACCGGAAAAGGAAAAAAGGAGGAAACCGAAGA $A C C A A G A A A G G A G G A A G A G C C G G G G G A G A A G G A C A G G G A A G A$
 C G G G G A A G A G A A G A G G A A A G G A GAGAAG GAAAGGGA GAAAAA ATTACAGAAAAAAAAAGGGAAGGCCAAAAAGAAGGAGAAGGG

A A GAGGGGGAGAAAGGGAAAAAAGGCCGAGGAAAGGGGAGGG G G A T A C C A A A A GAA $A \operatorname{GA} A G G A A C C C G A C C G A G G A G G A G A G G C$
 AGGGGAACCGGAAGGAGAAGAGGGGACAAAAACAGAGAGCCA GAAGAGAGGGGGAAAAAGGACGGAGAAAAAGAGACAACACCA A G G A G A GCAAACCAACCAAGGAACCGGCCGGGGAAGAAGAGG G GAA A G GCCACAAGGAAGAAGCAAGGAAGAGGGGGAAAGAAA GAGGAAGGAAAGAACAAGGGAGGGGGGCCAGGGGGGGCAAAG GAAAAAAGGAAGGGGGGAAAAGGGGAGCCBAAGGAAGAGGAA AAAGGGGCAAACAGGAAAAGGGGAAGGAAAAGGGGGGGGGAC A A A A A A A A A A A A ATTAGAGCAACACGGAGAAAAAAAAAAGAA A A A A GA $A \operatorname{GA} A \mathrm{~A} G \mathrm{G} C \mathrm{C} A \mathrm{~A} A C A G A A G A A G A A G A C C G C G G G A A A A$ G G G A A A G A A C A A G G G G G G G G A A A A G G G GAGAAAATCAA G GAC A GAA A G A A A A G G G GAGAGGGGGGGGGGCCAAAGCC GAAAAAA AAAAAGGACGGAGACGGGACAGAAAGGAGAAAATTAACCCCG AAACCAAAAAGGGGAGAGAATCCCCGAGGAAGGAAACTTGGA GAAAAAGAAAAGAAAGGAACCGAGGGAAGGGAAAAGAAAGAC A G G G A A A G G G G A A G G G GAA $A \operatorname{GCC} C G G G G A A C A A A G G G G A A C C C$ CAACAGGAAAAGGAAGGAAGGGGAAAAGGAAAAGAAAAACAC ACAAGCAGGGAAGGAGACCAAAGGAGGCCAGAAGGAGAGGGG GAAAAGGGAAGGACCAAAACCAGGGAACCGGAAAAACCAAC G GAACCGGGAAAAAGGAAAAACGGGGAGGACCGAAAAAAAGAA G GAA $A \operatorname{GG} A \mathrm{~A} A A A G G G G C C A G G G A A G A G A G G A G A A G C A A G A G G C$
 A G G G G C C A A A A A A A A $\mathcal{A} G G G G G G G G A G G A A G A G G A A C A C A C A A$
 C GAGGCCAAAGGAACAAGGAAAAAAGGAGAGGAGGAACCGGG GAAAAAAGGGGCCAAAAGGGACAAGAGGAGAAGGGAGAAGAA GAGGAAAGGGGGACAAAAAGGAAAAGGCCAAAAGGAGAGACG ACAAAGAAAAGGACCACAAAACAGAGGGGGGTAAGGACCGGG $G G A A A C C G G G A G G A A A G A G G G A A A A G G G G A A A G G G G A A A A A G$ GAGAGGAGAAGAGGGTTGAGACCGGAAAGGGGGAAGAGAGAA
 GA $\operatorname{G} A A A G G G A A C C A A A A A A G A A G G G C A C A A G C C A A G G G G G G C$
 AAAAGGGAAGACAATCAGAAGAGGAGGAGGGGGAAAGGAAAAG GCACCGGGGGAACACAAAAGAAAAAAAGGAAAGAGGAGAGGA GAAAAGGAAAGGAAAAGGAAAAGAGACAAAACAAAAGCAAAA
 A G GCCAAAAGAGGGGAAAAAAGGGGAAGGAGAAGAAAAAGAG $G G G A A G G G G A A G G G G G A A A A G A A G A G A G G C C G G A A G G G A G A A$ C C C T T G G A A A G A G A A A A A T GA G GA G CA G G A GAA G GACGGGGA GAGACCGGGAAAGCAAAACAGAAGAGAAAACGGGGGGACGGG G G A G A G A A C A A G GCGCCGGCC G GCCGGCCGGGGGAGGGAGAG G G GCCGAAAAGAGAAAAAGGAAAAAGAGGGGAAAAAGGAAAG G G GAGGGAAGGAAACAGAAGAGGGGGGACAGAAAGAAAGAAA GAAGGAAAAGGCCAAAAGGGGAAAAAGCCACGGAAGGAACAC CAACCACAAGAAGGGGGAAAAGGGGCCGGGGAAAACAGAAAG AGGCCAAGAAAGAGAAACCCCAGGGCCGGCAAAGGGAAAGAA $A C C C C G G G G G G G G G G G G A A G A G G A A G G A G A A A G G G A A A C G G G$ G G G A A G G A GCGGAAAAGGAGAGGAAGGGGAGGAACAAGAGAA
 G G G G G A A A G G G G G C A A G GAGGAAAAGACCAAGAGGAAAACAA AGGCCAAAGAAAAAAGGAAAAGGAAAAAAGGAAAAGGCAAAA
 AAAGGAAAAAAGGAGGGAAGGAAAAAGGAAGAGAGAGGAAAA A G G A A A A A ACCAACCGGAAGGTAGGCCAAAAAACAGGGAAAA A A A A C G G G GAAAACACGCAGACACCGGACAAAAGGAAGAA GA GAAGAAGAGGAAACCCCAACCGGGGAAGGAAGGGGGGCCGGG

GGGAACCCACAAGGGAAAACAAAAAGGGACCCCAGAGAGAAA A A G GACC C G $\mathrm{CA} A \mathrm{~A} G A A A G G G A C G G A A G G A A A C G G A G G G G G G A G$
 AGGAAAGACACAGACGGCCGGGGGGGGAAGGGGAAAAAAAAG GAAGGAAAAGGAACCGGAAGGAACCCCAAGGAAGGCCCAAAAA A A A A A G G A A G G A A C C G G A A A A G G G G A A A A G G G G A A A A A A G G G G G G G G G G G G G G G G A A G G A A A A C C G G G G A A G GAA $A \operatorname{G} G G G A A A G$ G G G G G G G G G G G A A A A A A $A G G G G G A A G G A A G G A A G G G A A A G G G$ GAAGGAAAAAAAAGGCCGGGGGGAAGGAAGAGAAGAGAGAAA GAGGGGGGGGGGGAAAAGGAAGGGGAAGGAAGGAAGAGGGGA
 G G G GCGGAGGAAGGGGGGGAGGGCAAGAACCGGGAGAAGAGG $G C C A G A A G A A A G A G G A G A G A A G A A A G G C A A A A A A A A G A G A A A$ GAGGGAAGGGACCAACCAACCCAACAAAAAAAAGGAAGAAAA G G GAGGGGGAAAGAAAAAAAACAGGGAGGTTAAGGAAGGGGA GAGAGAGAAGGAAGGCCAAAAGGAAAAGGGGAGGAGAACAAA GAGGGGAGGCCGGGGGAGGAAGGACGGGGCCAAGAAGAAAGC ACAAAAACCCCCCCACAGACAACGGGAAGAAAAAAGAGGGAA AAAAGGGCCAGGGAACCGGAGAGAAGGAGAGGGGGGGCAAAA ACCGAAAAGAACCACAGAAAAAAAGGGCCAAACAAGGAAAAG GAAGGGGAAGGAAGGCCGGAAAAGGAGGAGAAAAAGG
$A G C C G G A C G G A A G G A G C G G A G G A G C C A A A C G G G G G G C A C A G$ GAACAGGCCGGAAGACAAGGGAGGAAAGGGGGGAAAAAAGGG G G GCCGGAAAAAAAAAGAGGGGGAGGAGGGGAAAGCCAAAAA
 A A GAGAGGGAGAAAACAAGAAGGGAACAAGGAAGGGGAAAAC CAAAAAACCGGGGTTGGAAAAAAAAGGAAAAGGAAAAAACAA A G G G G G G G G A A G G A A G G G G A A G G G G G G G G G G A A G G C C G G A A A $A G G A A G G A A G G G G G G A A G G G G A A G G G G A A G G A A G B A A G G G A A$ A $G \mathrm{G} G \mathrm{G} G \mathrm{G}$ GAAAAGGGGGGGGAAGGAAGGAAAAGGGGAAAAAAA $A G G G G G G G G A A G G A A G G A A G G G G C C G G G G G G A A C C G G G G G G G$ GCCGGGGAAAAAAAAGGGGGGGGGGAAAACCCCAAAAGGGGG G G G G G G GAACCCCAAGGGGGGAACCCCAAGGGGAAAAAACAA
 A G G A A A A G GAA $A \operatorname{G} \operatorname{A} A A G G A A G G A A G G G G G G A A G G G G A A G A A A A$ A A A C C G G A A G G G G G G A A G G G G A A A A A A A A A G G G G A A A A G G G G A A G GCCGGGGGGAAGGGGGGAAAAAACCAAGGAAGGAAAAGGG GAAAAAAAAAAAAAAAACCGGAAGGAAGGCCGGAACAAAAAA A G G G G G G C C A A A A A A G G G G G G G G A A G G A A A A G G G G A A G GAA A A A A A A G G G GAA $A \operatorname{GGG} G C \subset G G G G A A G G A A A A G G A A A A G G C C G B A$ $A C C A A G G A A G G G G G G A A A A A A C C G G A A A A A A G G C C G G A A G G G$ GCCGGAAGGAAAAAAGGAAAAGGAAGGGGAAGGGGGGGAAAA AAAGGAACCGGCCGGGGAAAAGGGGAAAAGGGGCCAAGAAAG G G G A A A A A A A A G G A A G GAAAA G GAAAAAAGGAAAA G GAA G GA A A A G G A A A A A A G G A A G G G G G G A A T T G G A A G G A A A A G G C C C C G G G G A A G G T TAACC G GAA $A \operatorname{A} G A A A A A A A A C C A A A A G A G G G G G A G$ GAAGGGGCAGGCCGGAAAGGAGGAGAGACGAAAGACCAACAA GCAGGGAAGGAGAGGGGAAAACAAAAGAGGGCAAAAACCGGT
 A A A G G A A A A A A G G A GAA $A \operatorname{GGGAAGAGGGACGACGTTAAACGAA}$ GAGAAAGGGGAGGGAGGGACCAGAAAGCCGAGAGAAAGAAAA G G G GA $\operatorname{G} G C \subset G G A A G G A G G G G G C A A A G G G G C C G G A A G A A A A A A$ A A A A A C C A A G G G G G G G G A G T T A A A G A G A A TTGGCCAAAA G G A AAAAAGGGACCAAGGAAAAAGGGCCGAAAGGGGGAGAAGAAA G GAGGGGAGGGAAGAGGAAACGAGAAGAGAACGATACAAAGA GAAAAAAAGGAGGAAGGGGAACCAGGGGGAAAGGGCCGAAAA
 AA GACAAAAGGGACCGGGAAAGAAGAAGGAAACAAAAGAGAA $G G A C C A G G G G G A A G G A A G G G C G A G G A A A G G A G A A A A A G G G G A$

A G GCCAAGGGGAAGAAGGGGGCAAAGGAACCAGGGGGAAAGA G G G G G G G A A G G G A G G A A A G G A A A G G G G G G G A A G A G G G G G A A $G$ G G G G G G G G G G G G G G GAA $A \operatorname{GA} A \mathcal{A} A G G G A A A A A A G G G A C G A C A A$ GCAAGGAAAACCAAAAGGGGGGGAGTAAAGGAGGAAAAAGGG G G G G GAACCAGGGAGAGAGAGGGAGAGGAGGGAGGGGCAGAA GAGGGAAGGGGAAGGAGGGCCAGAAAAGGGGGGGGAAGAAAA
 AACCACCGGAAGGGAGGAAAAAAGGGGAACCAAAAAAGGGGA A G G G G A A A A A A G GCCGGAGCCGGAAAAGGGGCCAA G GCCGGA A G G G G G GCCGGAAAACCGGAAGGGGAAGGAAAAAAAAGGGGG G G G G G G G A A G G A A A A G G G G G G G G A A G G G G A A A A A A G G G G G G A A G G A A A A G G A A G G A A G G G G A A G G A A A A G G G G G G G G A A A A A A GAAGGAAAAGGCCAAAAAACCGGAAAAGGAAAAGGAAAAGGT TCCCCAAAAGGCCAAGGAAGGGGGGAACCAAAAAAAAAAAAG G G GAAAAGGGGAAGGGGCCGGGGAAAAAAGGAAGGAAGGGGA A G G G GAA $\operatorname{A} G \mathrm{G} G \mathrm{GA} A A A A A A A A A A G G A A G G C C G G C A A A G G G G G G G$ GAAAAGGAAAAAATTCCGGAAGGAAAAGGGGGGGGAAGAAAC C G G G G G G G G G G G G A A A A A A A A G GAA A GAAAAAAAA G GAACAA AAAGGGGAAAACCAAAAAAGGGGAAGGAACCGGAAAAAAAAG GAACCCCAAGGAAAAGGAAGGAAAAGGGGGGCCAAAAGAAAG GAAAAAAGGAAAAGGGGAAGGCCAAAAGGGGCCAAGGGGGGA A G G A A A A G G A A A A G G G G G G G G G G G G C C G G A A A A G G G G A A G G GAAAAAAGGAAAAAAAAGGAAGGGGGGGGAAGGAAGGGAAAG $G C C A A G G A A A A G G A A G G A A G G C C A A A A G G G G G G A A G G G A A A A$ A A A G G A A A A G G G GAAAA A C C G G G GAA A GAA G GAAAA A GAA A G A A A A G G A A G G A A A A A A G G T T G G G G A A G G G G G G G G G G A A G G G G G GAACCAAGGGGGGCCGGGGGGGGAAGGAACCGGGGCCGGGGA $A C C A A A A G G G G G G G G A A A A G G A A A A A A G G A A A A G G A A A A G G A$ A G G A A A A A A A A A A A ATTCCAAAAAAGGCCAACCAAAAAAAA G G G G G G A A G GAA $A \operatorname{GGGGGGCCGGGGGGTTGGAAAAGGAACAAAG}$ GAAGGAAAAGGGGAAGGAAAAGGAAGGGGAAAAGGAACAAAG GAACCAACCGGGGAACCAAAAGGAAGGCCAAAAAGGGGGGGG G G G G GCC $C$ G G G G G A A G G G G A A A A A A A A G G G GAA $A$ G A A A A G G G GAAAAAACCGGGGGGAAAAGGAACCAAGGAATTAAAACAGGA A G G G G A A G G G G A A G GAAAAAGGAAGGAAAAAAGGAAAAAAGAG G G G A A A A A A G G G GAAAAGGCCGGTTAAGGGGAAGGCCAAAAA AAAGGGGAAGGAAGGAAAAGGAAAAAAAAAACCAAAAGAAAA AAAGGCCGGCCCCGGAAGGGGCCAAAAGGGGAAAAGAAAGGG GAACCAAGGAAGGGGAAGGGGAAAAGGAAGGGGGGAAAAAAA
 CAAAAGGAAAAGGGGCCGGGGGGGGGGGGAAAAAAGAAAGGC CAAAAAAGGAAGGAGAGACGGGAGGAAGGAGAAGGAACAAAG A A A A A A GACGGAAGAGAAAGGGGCCCCCCCCAAACAAGG GAA GAAAGGGGGAAGACCGGGGAAAAAAGGAAGAAAGGCAAGABAA A G G G G G G G GAGAAAAAGAGAAAAGGAGGACACAAACCAACAA $A C C A A A G G A G A G G G A G G G G A G A A A A G G A A A A G G C C C C G A A A A$ A G G G G A A A A A A G G A A G G G GCCGGCCGGCCCCGGAAG GAAAAA
 GAGAAAAAGGGGGTTAAGGGGGGAGAAAAAAAGAAAAGAGAA G G A A A A A G G A G G G A A G A A A G G C G T T A A GA GAA A A A A G G G G A G GAATTACAACCAAGGAGGGGGAGAAGGAAAGAAAAAAAAGAG GAACAGGGGAAAACAAAGGGGGAACAAGAAAGAAAAAAGAAA GAAGGACCAAAAAAACAAAAGGAGAAACCGAGGAAAAGAGAA $A C C G G A C A G C C A A G G G G C A A A G A G A G A G G A A G G G G A A G G C C A$ CAAGACAAGGGAAAAAGAGACGGCCGGGGGGAAGAAAAGGAG GAGAGAAGGGAGGCCAAGGAAAAAAAAAAGGAAGGGACAAGBG GAAAAAAAAGGAAGGGGAAAAAAGAAAAAGGAGAGGAAAAAA A A A G G G G A G A A A G A A G G A A A A A A A A GGGGAAG GAACCCCGGG AGGAAAGGGAAAAAGAAAGCAGAAGAGAAAGCAGGAGGAGGA

A A A GAGAAAAAGGAAAAAAGAAAGGGGGGAAAAGAAGGAAAG
 GAAGGGACGGAAGGGGGAACACCAAAAAAAAACAGCAAGAAA
 A GA A G G GACGGAAGGAAAAGGGGGGGGAGCCGGAGACGGAGG G G G G G A A A A G GCCCC G G G G G G A A A G G A G G G A GA G G C A G G A A G A GAGAGAAGAGGGGGGGGGCCAACAACAGGGCAGGGGGGAGC CAAACGGGAAGGCGGATGGAAGAGGAGCAAGGGAACACCCCB G G A A A G A G GCAGGCCGGGAAAGGAGAGGGAGAGCGAACAAGA AAGGAAGAAAAAGACGAGGAAGAGGCCAAAAAAAAGGAGCAA ACACCGGAAGGGGGAAACACCGAGGAAGGAAGGGGAAAAAAA A A A A A GAGGAGAAGACAGAAGGGGGCCAGCCAGAGAGAAACB
 $G \subset A G G G A A A G G A A G G A G G A A G A G G G G A A A G G G G G G A A G A T A A$ A A A G G G GAAA A A A A GAAAGAAAAACAAACCAAACC GAA GAGA GCCGGCAAGAGAGAACCAAGAGGCCGGAAAGGGAGAAGAAAA $A C C A A A A A G C C G G A A G G G G C A G A C C A A A A G G C A A A G G G G G G A$ GAAA $A$ A A A T G G A GCACAAACCAGAAGGAAACGGAGAGACGAG $A C C A A G G G G G G A A A A A A G G A G A G G A C C A G A G C C G A C C A A A A G$ G G G A A A G A G G G A A G A A A A A A A A A C C GAGGAAAC GAAAAAA GA $C A G T A A A A G A A A G G G G G A G G A G G A A G G A G G G A A A A A G$
AAAAGAAGAAAAAAGGGAAGGGGAGGGGAAAGAGAAAAAGA G G G GAGGGGCCACAAAACAGAAGAGGGAGGAGGGGATAAAAA ACCGGGGGGAAAAAGGGGACCGGGGGGGAGGGGAGGAAAAAA A G GAA A GACAAAGAGAGGAAGAAGGAAAAAACCAGACBAGGG GAACCAGAGAAAGGAAAGGAAGGCCGGAAAGGAA GAAGAGAG AAAGGGAAGAAGGGAAAGGAAAGGGGGAAAAAAGAGGGAGAA A A A G G G G G G G A C C G A C A G G A A A A G GAAA A A GA GA GCC G G G A G G GAGGGAGAGAACACGAGAAAGGGGCAAAAAAAAACCCCGBA A GAGAAGGGGGGAGACCGAAGAAAAAAAAGGGGAAGGCCGGC CAAGGGGGGAAAAGGAAAACAGGGGAAGGAAAGGGAAAAAAA AGGCCCGAAGGAAAAGGGGGGGGGGAAGGGACCGAGAAAGAG
 A A GCC G A A G G A GAA $A \operatorname{G} G A A A G G G G G A G G C C G A A A G A G G G A A A G$ GAGCCAAGGAAAAAAGGCCGACCAGAGAGGAAAGGAAGGGGG GA $A \operatorname{GGG} G \operatorname{G} A A A A A A G G G G G G G A G G G G A A A A G G G G A A A A A A G G G$ GAAAACCAATTAACCGGATACAGGGAGACGAGAAAGAAAGGG GAAGGACAAAAGGAAAAGGAGGGAACCAGCAAGTTCCABAAG A A GCCAAGAGAACAGAGAGGAGGAGCCGAAAGGAGCCGAAAA G G G G G A A G GAA $A \operatorname{GAAAAGGGAGCCGGAAAGAAAGACAAAAAAA}$ GAGACCCTAGGAAGGGGAAGAGCGAAGCATAGGAGGGCAGAG
 GCCGGGGCCGGGGGGGAAAGGAGAAGGAGGGAAAGAGAAAAA G G G A A G G A GAGAGCCGGCCAGAAAACCAAGGGGGGAAAAAAC A A A G GCCGGAAGGGGGGCCAACCGGGGGAGAGACCAACAAAG G G G G G C A A G A G A A G G G G C A A T G G G G G A G G C C C C G A A A G G G G A AAAGGAACCAAAAAAGGCCGGAGGGAAAAGAGGAACAGGGAC C GACCAAAAGAAAGGAAAAAAAAGGGAAAGGGAAGTAGGGGG
 AACAGAAGAAAAAGGGACCGGAAGGAAAAAAAACCAAGAAAG G G G G G A A A C A A A A G G G G GAAAAAAGCAAAAAAAATGGCAAGA $G C C A A A G A A G G G A A G A A A T A A G G C A G A A G A A C A A G B A A A G A A$ AAAGGAACCGAAAGGAAGGCCACGAGAGAAGAAAGGGAGGAA AAGGAAAAAAAAAGGCAAGCCAAGACAAAAGGGCAAAAAAGB G G G G A A A A GACGGAGAGGGAAGAGAGAGAGACCGGAAAGAGG GAAAGAGAGGAAGAAAAAAGGAGAAGAAAAAGGAGGBAGGAA AAGCCATGGGGGGAAACGAAAAGAAAGAAAAAAGGAGCCAGB A A G G G A A A A A G G G A A G A G G A G G G G A A A A G A A C G C C A A G GAC C $C \subset A G G A A A A G G A A G G C C A A G G C A G G C C G G G A T A G G A G A A G G C$

C G G G GA G G GAAAGCAAGGGAGGACCGACCGGCCGGCGGGGGC $A G G G G G A A A G A G G G A G G A A G G G G A A G G G G A A A G A A G G G G G G A$ $A C C A A G G A A A A G G A A A G C C A A G A A A G G G A G G A A A A G A A G A G A$ G GAGGGGAAAAGGAACCGGGGGGGGCCGGAAGGGGAAGAAAC $C G G G G G G A A G G A A A G C C G G C A A G C A G G G G G G G G G A C A A G A A A$ G G A A G GA G A G G A A G A A G G A C C G G C C G GAGGGGGAAA A A G C C A G G G A A A A C C A G A A G A A A A A A A GAGGAA GAAGAA G GAACAAA G G G G A A A A A A A A CC G GAGGGCAGGGGGGCCAGAACCAAGAAAG G G G A A C C C C A G G A A GA GACCCGGCCACCCAA GA G GAGGGGGA AGGAACCAAGAGGGGGAAAGGAGCCAGAAAGGGGGACAGAAG GAAGGGGAAGGAGAAGACCATAGGACCCAGAAGAGAGAAAAG
 G G G A G G G G G A G G G G G G G A A A A A G G A G G C C A A G G G G A A A G G A A G GAGAGGGGGGGGAAAACCGGAGAAAAAAAAAAGAGAAAAAG AGAAAGGCCAAGGGGAAGGAGAGAGAGGGAAAACCAGAAGGG GAGGGGGAACCAGGGCCGGAAAAAGGGGAGGGGAAAAGAAGG G G G A A A G G A A G GAAAAAGGCCACGAACACGGGGAGGGGACAG G G G A A A A G G G GCCAGGGAAAGCCCCAGAAAAAACCAAAAAGA $A G A G G A A G G G G A G C A G A A G A G G A A C A G A A A G G G A A G G G A A G A$ G G G A A C C A G A A A A A A A A G G G G A A A A G GAA A A A GAAAA A GA GA G GAGGGGGAACGAGGACGGGGAAAACAAAGGAAAGGAAAGAA G G G GAAAGGGAAAGGCCAAAAAGAAGGAAAAAAAAGGAAGGG
 G G G G G A A G A A A GC G A A GA GAGG GAA A GAAAAAGGGGGGAAA G A G G G A A A G A G G GA GAACAAAAAGCAAACAAAAGAGGAA G G GA $C \subset C A A C C A A A G C C G G C C G G T T A G G G A G G G G G G A G A G G A G A G G$

 GAAGGAAGGGGAAAAAAAAAAAAAGGGGAAAAGAACCGGGGA A G G G G G G C C A G G G G GAGGGGAAGAAGGGAGACAAAAATAAGA C G G A G G G G A A G A C A G A A G A A G T T GAAGAA G GAAAA A A G G C C G G GAACGGGGAGGGGGAAAACCAAGGGGAGAACCGGAAAAAAG G G G GAGAAAAGGAACAAAAAACCAAGAAAAACAAAAAGAAGG
 A A A G G A A G G A A A G G G A A A A G G A A $\mathcal{A} G G G A G G G G G G G G G G A G A A$ C C G G A A G A GAA $A \operatorname{GGG} G A G A A A A G G A A A A C C A A G G G G G G A A G G A$ A GAAAAAAACAAAAAAAAGAAAGGAGGAAGGAAGGGAAGAGA G G GAAA AAAGAGAAAGGAACCCAAAAAGAGAACGGAAGAAAA GAGCCAAAAGGAGCCAAAAGACAGGAAAGAAAAAAAGGACAG A G GAA A GAA $A \operatorname{A} G \mathrm{G} G A A A A A A G A A G G A A G G A G A A A G G C C A A G G G$ GGGAAAAAGAACCAGCCAGAAAGGGGGAAGAAGCCAAGAGAA A A G A G A A A A C A G G A A A A G G G G A A A G T A G A A GA GA GAGCC C C A A G GAAAAGGGGCAGGACAGGAAAGAGAGAAGAAGGGGGAGAG G G G A A G A A A A A G G G GAAAA $A \operatorname{A} A A A A A C C A G A A G G G G G A A A G G G$ G G G A A G G G G G G G G A A A A C C G GAA A GAAAAAAAAAGGGAAACAG G G G A A G G A A G G G G G G A A A A G G A A G G G G G G G G C C G GC C C C A A G GAAAAGGGGGGAAGGAAAAAAGGAAAACCGGAAAAGGGAAAG GAAAAAAGGAAAAGGAAGGGGGGCCAAGGAAGGAAAACAAAG GCCGGGGGGAAAAAAAAGGAAACAAGGGGGAAAAGGGACAGC C G A TAA A A A A G A A A A G G A A A A C G GAGAAGGGAAAAAACAGGG GAACCACAACAAGTTAAACGACCAAGGAGAGAAGGGCAAAAG A A GAACGAAGGCCAAGGGGGGAGAGAGAAGGAAGAGGAAGAG G GAAGCCGGGGGAAGAGAGACGAAAGGCAAGGACCGAAAAAG GAAAAGGGGGGAAGGAACCGGAAGGCCAAGGCCGGGGGGGGG G G G G G A A CAGACCC GAACAAGGGAGGAAAAAAAAAAAAGCCG GAGGGCCCCAAAAAAGGACATAGAAAAAAAAAAAGATAATTG A A A G A A A A A A A A A GAGGAAGGAAGGGGGGAAAAAAAGAAA GA ACAAAAGGGGAAACCGGCCAAGAGAGGGCACAGGGAAAAAAA GAAAAGGGGGGAAAGTTAAGGGGCCGGCCGGCCCCCCAAAAAA

A G G A A A A G G G G G G A A G G G G A A T TCCCCCCAAAACCCCAAGGA A G GCCGGAAAAAAAAAAAAAAGGAAGGAACCGGGGAAGAAAA A G G T T A A G G G G A A G G GAGAA A GAAAAAAGGAAGGGCAGAAAA A A GAAA A A A G G GAGGAGGGGGAGGGGGAGGAGGAAAGCCGAA AAA A GAAAAGCGGAAGAGGCCGGGGATAGCCGGGGGCAGAAG $A C \subset A A C C A A A A G A A A G G G G G A A A A G A G G G G A G A A A A A G G G G G$
 AAACAAGGGGAAGGGGGCCGGGGAACCGGAAGGGGAAAAGGG GA $\operatorname{G} A \mathrm{~A} A \mathrm{~A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A \mathrm{~A} A A C \subset A A G G A G A G A A A G G A A A G A A A A A G$ AAGATAGGAAGGACCCGGGCCCAGAGGAGGGGGGGGBAAAGA

 GAGGGGGAAAAGGAAGGAACCAAAGGGAACCAAACAAAAAAG A A GAATTAAATAAAAAAGAGGGAAAAGAAGGCGAAAGAATTA A A A GA $A \operatorname{AGGGGGGGGGGCCAGGGGGAAAAGGAAGGGGGGGGA}$ A GAAACCAAGGGGGAGACCCCAAGGGGAGAAAAGAGGGGGGC CGGCCAAAAAAGGCCCAAGCAACGGGGAAAAAGAACCAGAAG ACAAAGGGCGAAGGAAAAGAGAGAAGGGGGGGGGAAGAAGAC ACAGGAGGGAACCGGAGAGAGAACCAGCACAGGAAAACCGGA A A G G G A C G G G G A G A A C G C A G G G G A A A GAGAAGGCAAA G GAA G GAAGGGGCCGAGGGAAGGGCCCCCCAAAAGAAAAAGG
G GCCGGGGGGACCAAGGGACAGGGGGAACCGAACCCCCCCG GAAGGAAGAGGAGAAAACCGGGGGGAAAAAAAAGGCCAAGAG G G G G A A T A A A A G G G A G G G A GAA $A \operatorname{GGAAGAGGGAAAAAACAAAA}$
 ACCGGGGAAAAGGGGAAAATTGGGGCCGGGGAAAAAACCCCA AAACCACAAAAAAAACCGAGAAGGAAGGGGAGGCAAGAACAG A G G A A A A G A A G A A A G G GAA $A \operatorname{AGGGGA} G G A A C C G A A G A T G G G G G$ GAAAAGGGAAAAGGGCCAAAGGCAGGGAAAAGAAAGAAAA GA AAAGGAAGGCCAAAGAGGGGAAAAGCCAGAAGAGGAACCCCG G G GAGAAGACCAGGGGGGGAAAAAAAAAACCAAGGGGGGCCG G G G GAAAGGGAAACCCCGGGGAAGGAAAGGAAGGGGGAGGGC $C \subset A A A A A G A C C C C G G G G A G G G G G A A G G G A A G G A A A G A A G G G G$ GCCAAGGAAGAAACCAAAAAGAGAAGGAGGAAAAAAAGACAA $A C C A A G G A A C C A T G G G A C A A A G A A G G G G A G G A G G A A A A G A A G$ G G GCGAACCAGAGAAGGTTGAAAAGAGAAAACCCGAAGAAAA GAGGGAGGAACAGGGGGGGAAGGGGGGGGAAGGAAGGGABAA G G G G GAAAACCAAGGGGGAAGGAGGGGGGGGAAAAGAAAACA A G GACTTCGGGAGAGAGAAGGAAAAAGAGAAGGAAAAAACAA $A G G C C A A A A G A G G G A A A C G A A G G G G G G A A G G A G A A G G A A A A G$ GAAGGAAAAGGGGAGAAAGCAGGCAGGAGGCGGGGAAAAAAG GAGGAAGCCAGGGGAGCAAAAAAGAGAAAAAGGAAGGGAAAA ATTAAGGAGAAACAAAGGGGGGGGGAAAAAGAGGGAACAAAA A G GAAAAGGAGCCGAAGAAAAAACCCACCAAGAAGAAGACAT TAGCAATAGGCAACCGGGGGGGAGAGGAAAGGAGGAGAAAAG A GAG $A \operatorname{G} \operatorname{AA} A G G G A A G G A A G G A A G G G G G G G G A A G G G A C A A G C A A$ A G GAA A GAAAGGAAAGGAAGGAAGGAAAAAGAGGGGAGAGAAA
 GAAGGAGAGGGAGGGACAAGGAGAGGGAAGGCAAAGGCACAA
 A G GAACCAAAAAGAGGGCCGAAAGGACCAAAGAGAGAAAGAA G G G G G A A G G G GAA $A \operatorname{AGGGC} C G A G G A A G A G A G G A A A G G G G A G A T$ TGAGAGAAAGGAAGAGAAAAGAAAGAGGAAGAGAATTCAGAG GGGAGAAAAAAAACCCAAGAAAGAAGAAACCACAAACAGGAG A G GAA $A \operatorname{GA} A A A A G A G G G A A G G A C A G C C G A G A A A A A A A G G G G G$ G G G G G G G C C A A G G A A C C G G G A A G G A A A A A A C A A A G A C G G G G G G GAAACCAAGACCGGGGGGGGAAGGGGAAAGAGCGTAAACAG G GAGGGGGAAAAAAAAAGGAACCAAGGAATTGGGGAAAAGBC CAAGGAAAAAAAAAACCAAAAGGGGGGGGAAGGAAGGCAAAAA

A G G G G G G A A G GCCAAGGAAGGGGAAGGGGAAAAGGGGAAAAA
 G G G G G G GAACCGAAAGAAAGAAGAATTAAAAGGAGAGAACAA A A GCCAAGGGAGGGGAGAAGGGGGGAGGGCAAGAAAACCGGG GCCAAAAGAAAAAAAGGAAGGAAGACAGGCAAGGAAAAAGAC C CAA $A \operatorname{GA} \operatorname{A} A A C A G G G A A G G C C A C A G G G G A A G G G A A G G G A G A A$ A G G A A A A A A A A A A G G G G A A A G G G A A G G G GCCCCA GAAG G C C A GTAGAAAAAGGAAGGGGAACCGGGAGGAACCAGAGAAAAGGG GAAGAGGGGGAAGGCACAGGGAACCGAAAAACCCCGGGACCA AAGGGAAGGAAAAAAAAAAGGGGTTAAAAGGGGGGGGAAAAG GAGACAGGAGGAAAAGGAGAGAAGGCCGGGGGGAAAGGGGGG A GAGGGGGGAAGGAAAAGAACAGACGAAAGGGGGGGAGATXA $A C C G G A A A A C C G G A A G G G G C C A G A G G A A G C C A A A A G A G A A A G$ A A A GAGAGAATAGGGAGAAGGCCGGAAGGGAGGGGAAACGGG A GAAAGGGGCCGGGAGGAGGGGGCCAAAAGGGAAAGGGAAAG G G GAA A G G GCCAGAAGGAAGGGGGGGGAAGGGAAA GAGAGAA $A C C A A G G G A A A A G G A A A G G A A G G A A C C G G A A G A G A A A G A C A G$ G G GA G A A G A A ACCAACCGGCAGAGGAAAGGGGAAGAAAAGAA G G G G G GAACGGGAGGGGAAGGCCGGGGGACCAGAGAGGGCCA A G G G G A A A A A G G G G G A G A A G G A A G A A A G G A GAA $A$ G G A C G C C A AACAGAGGAAGGGGGAGAAAAGGAGAAAAGGGAAAGGAGAAA G G G G GAA $A \operatorname{GA} A A G C \subset G G A A A A G G G G G G G G C C G G G G G G G A A A A$ AGGCCGGAAGGAAAAAATTAAGGAAAAGGAAGGAAAGAAACA G G G G G A A G G A GCCAAA A GAAAGAGGGAAGGAAAGAAAAAAAAA C C C A G A G A C G G GAA $A$ A $A G G A G A A A G G C C A G A A G A G A A A C A A G G$ A G G G G GCAA $\mathcal{A} G A C A A G G G G G G C C G A G C G A A G G G G G A G G G G G A$ GAGAGGGACGGAAGGGAGGAGAGAAAGAACCGGCCGGGGGGA GAGCCGGAAGGAGAAAAAGAAGGAAAACCGAGGAAAAAAGAA CCGAGGGCCACAAACGAAAAAAGGGAACAAGAGAGGGGAAAA CTTCCAAACCCGGGGGGCGGAAAAGCCGGGAAAGGAGAGGAC A G A A A A A G G A A C C A G G A A G G G A G A A A A G G A A GAACCC GA GA G G G G GCAGCCAAAGACGAAAAGGAGAGGGGGGAAACGGACAAG GCCGGGGGGAGAACACAAAACAGGGAAAAGAGGGAGGGGGGG GAACCGACAGAAGAAGAGGGAAAAAGGAAGGAABAGGGGCCG $G C A C C A A G G G G A G G G G G A A A G G G G G A G A G A A A C A A C C A G G A G$ A G G A A G G G G G A A G G G C C G G T T G A A A A A G G G G G G G A A A A G A A G
 GAACCAAGGGAGGGGGGGGAAGGAAGGAGAAAA GGAGCAGAC CAAACAGGACAGGGAGAGGAAAGACCCAGAGGGGGGGGAAAA GAGAAGGGAACGAGAAGAAAGGAAGCCAGAGGGCAAAACABC $A C A A G G G C C A C G G A G G A G A G A A A C C A G A G G G A A A G G G A A G B G$
 GAAA ACAAGAGGGGAAGAAGGAAGGGAAGGGAAGGGGCAAGA A GACAAAGGAAGAAAGGGAAAAAGAGGAGGGCAGAAAAGACB GTATTCCGGGACCAGGGAAGAAGGAGGAATTAGAGGGGAAAA GAAGGGGAGAAGGGGGGAGCCGGAAAAGAGAACGAAAAGAGB
 G GAAAGGGAGGGACCGGGAAGGAAAAGGGGGAGAGAAAAGAG GAGACGGAGCAAAAAGGGGGGAAGGGGAAAGCCAAGAAGGGC
 A A A A A A A G G G G G G G GCCCCGGAGGAAAGGGAAGACCCGGGAA A G G G G G G A G G G G G C CAA A A $A \operatorname{AGGAAGCAAAGGGAAAAAGAAAG}$ GACAAGAGGAAGGAAGGGGGGGGGGAACCGGAAGGGGAACAA A G GAGGAGGAGCCACAAAAAAGAAGAAAAGAAGAACAAAGAA
 $A G G A A A A G G A A G G C C G G A A A A A G G G G A A A A G A A G A A G G G C C G$ GCCGGGGAAGGGGCCCCGAGGGGAAGGGGGGAAGGCCGGCCG GCCGGTTGGAAGGAAAAGGGGAAAACCGGAAGGGGCCAAAAA A G G A A G G G G G G A A G GAAAACCGGGGACAGGAGGGATTAAAAA

A G GAAGGAAGGGGAAAAAAGAAAAGGAGGGGGGAAAAACCCC CAAGACCAAAAGAAGAAAAGGAAAAAAAAGGAACCGGA GAAA A G G G G A A A A A A GAAAAA A A $A$ AGAGACCCAAGGCGAGGGGAAAG AGGAGAAAGGGAACCGGAACACAGGGGAGACAAAGAAAGCAG A ACAA $A$ A $A G G G G G A A G G G G A A G A G G G A G A C A G G A A G G A A G A G$ AAAGGAAAAAGGAACAAAAAGAAAGCAAAAAAAGGAAAGACA GCGGAAGACGAGGGAAAAAAAAACAAGAGGGAGACGAAAAAG $G G G A A A A A A A A G G A A A A A A G A A A G G G A G A G G A A C C A C G G G G G$ GAATTGAGGGGCCAGAGAAAACCGGGGGAAAGGGGGBAGGBA GAGCCGGGGCAAAAAAAGAGGAACGGGAAGAAAAGGAGGGGC A G G G G G G A A G G G G G G G GCC G G A A A GAC G GAAAA A A T T G A CA C CAAAACACCAAAGAAGGGAAAAAAAAGGGGGAA G GAAGGGGGA GCCGAGGAGGGGGGGACAAAGGACAGCGAGAAGAGGAGAGCG G G GAGCCCAGGGAAGGGGAGAACAGAAAAAAAAAAGGGAAAA CAGGGGGGGGAAGGAGGAGGGAAGAGGAAAGGGAAAACAAAA

 A G G G G A A A A A A A A G G G G A A A A G G G GAAC CAAAAA G G G G G G T T G G G G A A C C A A A A A A A A G G G G G G A A A A G GAAGGCCAAGAAA G GA A G G A A G G G GCCAA G G G G A A A A T T G GAA G GAAAAAA A G C C G G C CAAAAAAGGAAGGGGGGAACCAAAAAAAAGGCCAAGG
$C \subset G G G G G G A A A A A A C C G G G G G G G G G G A A A A G G A A A A A A A A G$ G G G G G G GCC C G A A G G G G A A G G G G A A G G A A G G A A C C G G A A G G A A G G A A G G G GAA $A \operatorname{G} \operatorname{GAAAATTAAAAGGAAAAAAAAGGAAAAGAA}$ A A A A A A A A A G GAAGGTTAACCGGAAGGAACCCCGGAAGAAAA A G G G GAACCAAAACCAAGGAAAAAAGGAAGGGGAAGAAAAAA A G GCCGGAAAAGGAAGGAAGGGGAAGGGGGGAAGGAAGAAAG G G G G GAAAACCCCCCGGAAGGAAAAGGAAGGAAGGAAGAAAG GAAAAGGGGGGGGAACCGGAAGGCCGGGGGGGGGGGGGAAAA AAACCAAGGGGGGAACCAAAAAAGGCCGGAAAAAAGGAAAAC C G G A A A A G G A A A A A A A A C C G G A A A A G GAAAACC G GAA G GAAA AAACCAACCTTGGGGAAAAAAGGAACCAAGGAAGGGGGGGGA A G GAAAAGGAACCAAGGGGCCAAAAAAAAGGGGCCAAAAGAA AAAAAAAGAAGGAAGAAAAAGGGAGAGCCGGAGGAAGGGCAC CAAGGAAGGGGAAAAGAAAAAAAGGAAGAAGGACAAGAAAAG G GACCGGAAGAGAGAAAACAGGAAAAAGGGGGGGAAGGAGAA C G GCCAAAAAGGGGGAAGGAGAAAGGAGAGAAAGGAAGAAAA GAAAAGGAGGACCAGGAAGAGAAAGAAAGCCAAGGGGGAAAA A A G G G A G A A A A G G G G A A A A GACCGGCCGGAAGGGGAAGAGAA A A A G A A G G G A G A G G A G G GAGGGAGGGGGGAAAAGAAA GAA GA G G GAGGGGGAGCACCAGGACAGGGAGGAGGAAACAGGCAAAG A G A A A A A GAGACCAAGAAAGAAAAAGGGGGGGGAGGGGAAGG G GCGGCGGGGGCAAGGAAACATAAAGGGGGGGGGAACAGAGA AGGCAGACCAAAAAAGGAACCAACCGGAAAGGGTTAAAAGAA AAAAGAAGGAAAAGACAGAAAGAGGGGAAAGGACAGAAAAAA
 GCCAGGGAAGGGGGGAAGGAAACAGGGAGGACCCATAGAGAA AAACCAAAAGGGGAAGGGGTTAAGGGGAACCAATAGGGGGGG GAGGGAAAAAAGGAGGGGAGGAGGGGGAAAAAAAAAGGGGGG
 C GAA $A \operatorname{GGA} A A A A A A A C C A C A G A G A A G G C A G A A A G G A A A A G G G$ A A A A A GACAGGGA GAGGAAAAAAAAGGCAGGAGAAGGAAAGG
 GAAGGGGGGAAGGCCAAGGAGCAAAAAAAAAGGGGGAAAGGG G G GAA $A \operatorname{GAA} \mathrm{~A}$ G G GAGAGGAAACCACGAGGAGAAGGGGCCCCA A A A A A A A G G A A A A G G A A A A A A A A G G G G CAA A GAACA A A GA G A CACAACCCCCCAAGGAAGAGGAAGGAAGAAAAAAGGAAAGGG GAGACGAAAAAAAGGGGGGCCCCGGGGAAAAAAGGGGGAAAA AACGAACAGGGAAAAAAAGGGGAAGAGAAAGAAGGATAAGAA

G G GAGGAAACCGGGGGGACGGAGGGACGGGGGGGAAGAAAAG G G G G G G G A A GAGGGGGGAAGGACAGCCAAGGAGAGAAGAAAA A A G G G G GAGGAGGAGAGAAAAGGAAAAAGAAGGGAGGGAAAA A GAAAGAGAGAAGAGGGAAGGAGAAAAGCAGAAGAGGAGGGG
 G GACCGGAAGAAAACCGGGAAGGAAGGGGGGCAAGAAAAAA G GAGGGGAAAAAAAGGGCCGAAGAAGGGGACAAGGAACAAAC CCAAAGAAAAAGAAAGGGGAGCCACGGCAAGGAGGCCAAGGA
 GACAAAGAGAAAGAGAGAAGGAAAGGGGGAGAGAAAAAAAAA G GAACAGAAGGGGAGGGCAGGACAGGGCAAAGAAAGGAAGAA A G G A A G GACGGGGAAGGAGCC GAGGAGAGGGGGAGAAGAGAA A G G G G G G C A T T A G A A C C G G A A A A A A G G G G G A A A G G A G G G A G G G GAGGGAAAAAGGGGAAAGGAAGGAAAGGAGGACAAGAAAGA ACAGGGCGGGGGAGGGAGAAAAGAGAGACAAAAGGGAAAACG AAAGGAAGGCCAAAGGAGGAGGAGGGGGAAGGGAGAAGAAGA
 G G G G GCCAAGGGGAAAGAAAAAGGAGGAAGGAACCAGAAAAA G G G G C A G G G G G A A G A G A A G A A C C A A G G G G A G GA G G T TA G T T G $A G G A G G G A A G G A A G G G G A G A G G G A A A G G G A A G A A A A G A A G A G$
 GAAAAGAAGGAAGGGGAAGAGGGAAAAAAGCAAGGATAACCC AAA A GAAGGGGGGAAAAAACCGGAGAAACGAGGAGGGGGAAA GAGACAACCACGAGAGGGGGGCCCCACGGAGCGAACAGAGCG A G G G G A A A C G G A G GAGAAGGGACACGGAACAGAA GAAACCCC CAAAAAAAGGACCAAAAAAGGAAGGAAAAAAAAAAAGAGAAC A A GAGAAGGAGGACCGGCCTAGGACGGAAAGGGGAGGAAAAG G G GACGAGGGGAGAAAAAGAAAAAGAGGAGGGAGAAAAAGAG GAAGGAAAAGGGGCCCCAAAAAAAAAAGAAAAAAACCGGGGG G G G G G G G A A A A A A G G G G G G G G G G A A A A G GAAAAGGAAAAAAA A A G G G A A G G A C A A G G G G A A G G G A A A G G C C C C A A A G A CA G G A C AGGCCGGGACAAAGGAAAGCCGAAGAAGACAAGAGGAGGCCAA AAAGGGGCCAAACAACAAAAAGAGAAAACAGGGAACCAAGGC CAAAAAAAATTAGGGAAGGAGGAGGAAAGGAGGAAGACAAAG A A A A A C C C C C C G A A G G G G G G G G G C C A A GACCAAG GAAAA A G G G G G A A A A G G G G A T G G G G G G A A A A A A GAAAACAA A A A CA A CA G A GAAGGGGGAAGGAAAAGGCCAAGGGGCAAAACGAGAAAGGG GAACCCCGGAAAAAAGAGAACAAAAGAAACCAGAAGGAAAGG A A GA $\operatorname{A}$ GAAACCAGAGAGGGGGGGACTAAAGGGGGGGGGGCAA
 GAAGGGGAAGGGGGGGAAAAGAAGGCCCCGGAAGGAGAAGGA G G GCAGGCGAAGACCAGAAAGGGGAGGGACCAAGAAAAGAAA G GAGGGAGAAAAGGGAAGGCCGAAAAGAAAATACCAGAAAAG GCCTTAGGAAGCCGGGGTTAAAACAGGGAGGGGAAAAAAAAA A A G A A A A A CAAAACCGGGGAAAACCGAAAAGGGGGAAAGGAA A A G G G A A A A A $\mathcal{A} G G G A G A G G G G G G G G A A A A A A A G T T A G A G A G G$ A A GCGGGAGGAGAGGAAGGAAGCGAGAAGAACCGAGGAAAGG $C \subset C A A C C G G A A A A A A A A G G C A G A A A G G A T C C A A C C C A A A A G C$ GAGCCACGGGGAGGACCGGAAAAGGAAGGAAAGGAAGAAAGA G G G C C A A A G A G G G G G G G G G G G A G G A G G A A C C A A A A G G G A G G A A G G G G A A C A A C G A A A A G G GAGGAAAGACCAAGGCCTTGAAAG $A A C G G A A A A G G A G A G A G A A G A G G A A G G A A A A G G C C G G G G G G G$ A GAGAGGAACGGAGAAAAAGGGGAAGGAAAAAACCCCGAAAA $A C C A G C A A G A A A A G G G G G A C A G A C A C A A A G G G G G A G G A A A A G$ G GAA A A GAAGGCCAGGAAGAAAAAGCCAAGAGGCCCAGGGGG GAAAGCCAGGGGGGAAGGGCCAAAAAAGGAAGAGAAAAGAAG
 G GAAC GAA A A GAAAAAGGAGGAAAAAAAAGGAGGGGAAAGAA GAGGGACAAAAAAGAAAGGAAAGGGAAGAGAGGGGGGGAGGA

AGGAACCAAGGAACCAAACCCAAAAAAACGGACBAGAGAGGA G GAA A G GAA A G A A G GAAAAAAAAAGGAGAGAGACAATTGAAAC CAGGGGGGACCGGGAAGGGGAGGCAGGCCCCCCCAGGGGCCC $C \subset C G G A C A A A A A G C C G G A A G G G G G G A A A A A A G G G G A A G G G G G$ A A GAA $A \operatorname{GA} \operatorname{A} A A A A G G A G A A A A C C A A A A G G G G G G G G A A G G G G A$
 A G GCCGGAAGGCCCACCAAGGGGTAAAGAAGAGAAGGAAGEG GAAGGGAAGACAGACCAGGGGAAGGGGGGAAAAGGGGAAAAA A A G A A C C A G G A GAGGGATAGGAGGAGCGGAAGGAGGAGAAAG GAAAAAAGAAGGAAAAAGAAGGAAAAGAGGGTTCCGGAAAAA A GAAGCCAAAAAAACGAAAGGAAGAGAAAGGCCGGAACAGGC CAAAAAAAAGAAGGGGAAAGGAACCAAAACCGGAAGAAAGGT TA GA $\operatorname{G} A \mathrm{~A} A A A A G G A A C C G G A G G G G G A A C A G A A G A A G G A A G G G$ A G G A G G G G GA G A C T A A A A T G A A A A A A G C CA G G A A G GAC C A G A $A C C A A A A A G T T A A A A A G A A G G A A A A A A G G A A A A C C A G G G G G G$ G G G G G G GAAAAAA AAAAAAGGAGAAGGAAGAGGGGGAAAAAA $A G G G G C C A A A A A G G A A A A G G G G G A A A G T T A G C G G B A A G G G G G$ A G G G A C C C C A G A CAG GAA G GAAGGAGAGGGGAACCGGGAGAA GGAAAGGAACAAGCCGAGAAAGGAGAGAACCAGGAAAGAAAA A A A G G A A G G A A G A A G G G GA A A A G G G G G G G A A A A G G G G G G A A A A GAAGGGGGGGGGGAGCCGGGGGGGGAAAGCAGGAA
 GAAAACCGGGGGGGGACGGGACAAGGGGGCCGGAAAAAAGAA A A A A A C A G A T T G A A A A A A A G G G G G G A G G A G G C C A A A A A A A G A AAGCCGAGACAAAAGCCAATTGGAACCGAAGAGAAAGAGAGG GAAGGGACGAGAAAGACCAGAAAGAAAGGGGGGAGEAAAAAA A G G G GAGGGACAAAAAGGGGGAAAAAGGGAAAGAGGGGAACAA A G GCCCCGGAAAAAAGGCCGGAAGGGGGGGGGGGGAAAAAAG GAAGGGGAAAAAACCAAAAAACCAAAAAAAAAAGGAAGAAAG $G G G A A A A T T G G G G G G A A G G A A G G A A G G A A A A A A G G G A A A G G G$ $G C C A A C C A A G G G G A A A A A A G G A A G G A A G G G G A A G G A A C C G B A$ AGGAAGGGGAACCGACCAGAAAAGAGAGGGGAAGAGAGGGGA AAAGGAAAAGCGGGACCAAGGCAGGGGCCGGAAGGGAAAAAA GAAGAGAAGGAGAAGAGAAGGGGGGAGAAGAAGGAGGGAAAA GA G T T G G A A A A G G A A $\mathcal{A} G G G A A G G G G G G G G C C A A G G G G G G G B A$ G G A A G G G G G A G G A G G A A G G A G G G C A A A A G A A G G A A A A A A A A G $G C G A A G G G A G G C A G G G G A G G A A A G G A G G G G G G A A G A G G G A G G$ A A G G G GACAGAAGAGAAGGAGGGCAAGCCAGAAGGAGAAGGG GAGCAGGAGAACAAGATGACGCAAGGAAAAAGGAGGAGAAAA
 G G G A A G G G G G G A G G G G G G A A GAGAAAAAAACCCAA G G GAAA $A$ G G G A A A A A GAA $A \operatorname{AAGGAGCCAGGAGAAAGGAAAAAAGGGGGGA}$ A GAGGCCGGGAGGGAGAGAAAAAAGAACCGGGGAACCCAACC $C \subset C G G A A A G A G G G A A G G G G G G A G A G A G A G G G G G A G A G G A G G G$ GA $A \operatorname{GAA} A G G G G G G G G A A G G A A G G G G G A G G G A C C G G G A A A A A G$ A A A G G A A G G G G G A A A G A A A G GA A A G G G G G A A A GAC GAAAAA A A G G G A A A C C G GCCAAAAAGGGAAGGGGGAAGAAAAGGGA G G GA A GAAGAGGGGAGGGAAGAAAAGAGGGCCAGGGAAAAGGCAAAA AAAGAAGACCCGGAAGGTTAACCAGCCAGGGGGAAAAAAAAA A G G A C G G A A GAA A A GAACAGGAAGGAGAGAAAAGGAAAAGGG G G G G G A GCCCAGAAGGGGGGAAGGGAGGACCGGGGAAAAAAA A G GAAAAAAGGGGGGAAGGGGAAAAGAAAAAAAGGACAAACT
 $C G G G G A A G G G A A G G G A A G G A A A A A A C C A A A C A A A A G G A A T T A$ $A C C A C G G A A A G A G A G G G G A A G C A A A A A A G G G A G A A G G A G A A A$ A G G G G A A CAA $A \operatorname{GGAAAAAAACCCGAAAGAAAACCAAGGCCGGA}$ A A A C C G G A A A A A A A A G G G G G G G G A A G G A A A A G G A A G G A A G G A A A A A A G G A A C C CC G GCCGGTTAAGGGGGGGGCCAAAAAAGGA AAAGGCCAAGGCCGGGGAAGGAAGGGGAAAAAAAAAAAAGGG

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 AGGCCAAAAAAAAGGAAAACAGAGAGGGGAAGGAATTGAAGG $A C C A A T T G G A A A A G G A A G G A G A A G A G G A G G A G G C A A G A G A A G$ GAA A GAAGGAAAACCGGGGAAGAGGGGGAAGAA GG GAACGGC CAAAAGAGGCAAAAGAAGGAGGGGGAGAGCCAAGGGGCAAAA A A A A A A G G G G G G G G GACAACAGACCCCGGGACGAAGAGGGGA G GAGGGGGGAAAAAAGGGGAAAAAACCAAGGCAGGGAAAACC C GAAAGAAAAAGGGGAAAACCGGAAAAAAGGAAGGAACACCG G G A G A A A G GAA $A \operatorname{GGGGGAAAAACCAAAGGGAAAAGGCCAAGGG}$ G G G G GCCGGGCGCACAAACAGCCAGCGGGAGAAAAAAAAGBA AAAGGGGGGAACCGGGGAACAGAGAGGAGGGAGGGAAAAAAG GAACCGGGAAACAGAAAAAGAGAAAGGGGCCGGGGCCXAACA GAGGGAAAAGGGGGAAGAAGAGGGGAAGGTTCCGGGGCCCBA A G G GAA A G G G GCAGAAAGGGGAAGGAAGAAAGGAAG GAGGGA AAACCGGGGAAGGGGCAAAAGGGCATAAAAAGAAGAAAGAAA GAGAAAAAAGGAACCAAGGAAGGAGGGCCAAAACCGGAAAAG GAAAACAAAAAAACCGAGAGGCCAACCGGGGGGGAGGAAAAA AGGAAGGAAGGAAAAAAGGAAAAACACGGAGACAGCCGAAAG GAAGGGGAAGGAAGGAAGGAGAGGAAGAAGGAGGGAAAAAAA AAGGGAAGGGGCACCCAGGAAGAACAGGAGGGGGGGGCAGGG GAAGGAGCCTTAGGAAGCAAGGAAAAAAAGAACGGAGAAGAG A A A A A G G G GAA $A \operatorname{G} \operatorname{A} A \mathrm{~A} G A A G G A G A A A A G C X A A A G G A C A A G G A A$ CAAGGAGCCAAGGAGGGAAAACCGGCCGGGGAGAAAAAAAAC C C C G G A G A G A A A A A GAGAAGGGAGACGACACGGAGCCAAAA G AGACCAACCGGAAAAGGGGAGAAAACCGAAAAACCAAAAAAG GAAGGAAAAAAGGGGGGGGAAAAGGAAGGGGCCAAAAAAAAG GAAA $A \operatorname{A} A \mathrm{~A}$ GAGGCCGAGGAAGGAAAAAAAAGGGGGGCCGGGAA AAA A G G G A A A A A G A G G GAACCAGGGGAGGGGCCAAAA GAAA G GGGCCAAGAAACCGGGGGGAAGGAGAAGGGGAAAACCAAGGG GAACCGGGGGGAAAAGGAGGAGAAAAAAAAACAGGAACAAGA A A A G G G G G GCCGGGACCAGAATTGGACGGGAAGAAAAAGAAA A GCG G A C G G G A G G G A A G G G G G G G A A G A G G A G G G C C A A G G A G C C GAAACCAAGAGAACCAAGAGGAAGAAGGAAGGCCCCGAGAA A A GAA $A \operatorname{GAAAAGGGAAGGAAACGGAAAGATAAGGACAGGAGGC}$ C G G G G A A G GAAAAA A $A$ A A G G G G GAAAAAACAGGGGAAGGAACAC G GACCGGAACCGGTTTTGGAAACAAGAAATTCCCAAAAGCAC AAGCCGGAAAAGAAAGGACAAGAGAGGAGCCAAAAGGAAGGG G G G A A A A A A A A A A G G G G G G A A G G A GAGGACCC GAGGGAAAA G GAAGAAGACACCAAGGAGGAAGGGACCAAAAAGAAACAGAGG
 G G G GAAAAAGGGGAAAACCCCGGGAGAACGGACACGAAAGAA AAGAGGCAGGGAGCAGGAACCCCAGGGAGCCGGCAAACCGGG A A A A G A A G GAGGGAAGGCAGGGAGGCAGAGGAAGAACGGGAA AAAGGCCAAAACCGGGGGAGGCAGGGGAGACAAGAGGACAAG G G G G A A A A A G G A A A A A A A A A A A GAGAAGAA G CAAA A G A A A G G G G G G G A T T A GAGCC G GA GAA $A \operatorname{A} A G G G G G G C C A G C C A A A A G A A G A$ $A C A A A A A A A A T G G A C A A A A A G G A G G A A A A G G G G A A A G G G A C A$

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 C T T G G A A A A G G A A A A G G A A A A G G A A G G G G G G G G G G G A C C A A A G G GAAGGAACCAACCGACGCCAGAGAGCAAGAAGGGAAAAAG GCCAAGGGAAAGGAGCAACAAAAGGGGGGGGGAGGAAAGAAG G GAGAACAGGAACAGAAGGGAAAAACAAGAGGGCCAAAGGGG A G GAGCCAAAAAAAACAAAAGAAAGGAAGGAAGAGACGAAAA A G A A A GAAAAAAAGGGAGGAAAGGAGGCCGGAGAAGACAGAAA G G G G A A A A A G G G G G GAC $\mathcal{A} G G G C C G G A G G A G G G A G G G A G G G G A$ A $G G G A A A A A A G G G G A A A A G G G G G G A G G G A A A G G G A G A A A A A A C$ A A G G A GAGAAAAGAGGGGGCCAAGGAACCCCACGAAG
G GACAGGGAAAAGGAAAAAAAAAAGGCCGGGGAAGGAACAC GAAAGCCGGCCGGAAAGGGGAGAGGAACAGACCGGAGCAGGG A A G A A G GCCAGAGAGGGGGGGGGAAAAACGAAAGAAAGACAG A A GAAAACCGGGGAAGGACAAAAGAGGGAACGGAAAAGGGCT TGGAAAAAAAAGGGGGGCCAAGAGGAGAACGGGAAGGCAACC $C G G A A A G G G G A C C G G G G A A G G G A G G C C G G A A A A G G C C A G A A A$ G G A T A G A A A G A A A G G G G A C T T A A G G G G A A A A G G A G A G A A A G G GAGGGGAAAAAGGAACCCCGCAGGAAGCCGGGGGAGGAGGGG GAAAAGGGGGGGGAAGAAGAAACAAAAAAGACAAGGGAAGAG GAAAAAAAAATAGCCAGCAAAAAAGGAAAAAGGGGGAAAAAA A GAGGGGCCGGGGGGGGAAGGAAGGAAAAGAGGGAGGAAACA AAAGAGGAAAGGAGGCCAAAGGAGAAAGAAGAGAGAACAGGG G G G A A A A C C G A C CAA A A A A GAA $A C C G A G G G G A G C C A G A A G A A$ G G G A A A A A G G A A C A G G G G G GACAGGAGAAAGAGAACCA G GAAA A A G A A A A A A T T C C G G G G G G G A A A A A A G GAA G GAA A G A A C C G A A A G GCCAAGGGGAAAGCAGGACGAAAAAGAGGGGAAGCAAGAAA GGACCGAAGAAGGAAGGAAGGGGGGAAAAAAAACCAAGAAGA G GAA $A \operatorname{GA} \mathrm{~A} A \mathrm{~A} A \mathrm{G} A \mathrm{~A}$ GAAGGAAAAGGGGGGAACAGGAAAGAAC CAAA $A \operatorname{AGGGGGGAAAAGAGGAAGAAAGGGCAAAGGAAAGAAAC}$ CAAAAAAAAAGGAGGCCAAGGCCGGGGGAAAAGAAGGCAAGA C G GCCCCGCAAAAAGGGAGAAGAGGGGAAGGAAGGAAGAAAG G G G G G A G G A G A GAGGAAGGCCCCGGAGGGAGGGAGAAAAGAC CAAAAGGAAGGAAGGAAGAGGAGAAGAGGGGAAAAAAAAAAG $G C \subset A A A A G G A A G G G G G G C A G G G G G G C C G G G A G G G A G G A G G G G$ G G G A A G G G G G G G A C A A A GA G G C C G G G G G G A A G G G G G G G G A A A A G G A A G G A A G A A A G G G G G G G A A G GAGGGAGACCCCGGGAAA G AAAAAGGAAAAGGGGGGAGAGAGAGAAACCCCCAAAGACABA A G GAA A GAAAACCCAAAAAGGCAGGGAGAGACAGGAGGGGGA G G GAGAACCGGCCGGGGGAAAACGGAAAAGAGGACGGCACAC A A GAA ACGGAAGGGGAAAAAAGGGGACCCGACAGGAGAATAC C GAACGGCCAGAGAGGGAAAAAGCCAAAGAAAGACGAGAAAC C C C G G G G A C A A G G A G G G G G A G C C A GAGAGGGGAAAA A A A A A G GAA A G G GAGAGAGACAAGGGGGGAGGGGGAAGAGACCGGTTG AA $A \operatorname{G} G A A A A C A G G G G C C G G G G C C A G G G G G C A A G C A A G A C A A A$ A G G G A A G A C G G G A G G A A G G G G GAGGCCCCAAAAAAGGAAAA $A$ GCCAACCGGGAGAAGGGGGGGGGGGAAAAGGGGGGGGAAAAC CA GAGCAGAAGAGACCAAGAACCCCAAGGAAGGGAGGGGGGC $A C C G G A A A G G G A G A A G G A G A G C A A G A G G A A A G G A C G G A G G G G$

GACAAAGGGGGGGGGGGACAGAAGAGGAGACAGAGAGGAAGA
 A G G G G G G C C C C C C G G G G C C G G G G G G A A G G G G G G A G G G G A G G G G GAACGACCACGAGGAAGGGGCAGGAAGGGGGGGGAAGAGAG G G G GAA ACCAAGAGAGATTGGAACACACCAGAGAGAGAAAAG
 CA $A \operatorname{GAA} A C A A A G G G G G G A G G G C C G G G G A G G G A G G G G G A G G G G$ AAAGGGGAAAACAGGGGAAGGAGAAAAGAAAGGGGCAGAGGG A A A A G G A G G G A GCGGAGAAAGGAGGGGGAAGAAAAAAGAAGC $C A C G G A G G G A A G G C C G A C C A G A A A G G A G A A T G G A A G G G G G G A$ AAAGGGAGACCGGAGACAAGAGGAAAAGCAAAAAGGGGAGGC A GAGAAGCCAGAGGGCCGGAAAAGGGACAAAAAGGGGCAAAG A GCGGGGACGAGGGGGGGGGAAAAACCAGGGAGGGAAAAGAA A GAGGAGGAAACCAACAGGGGCCGGGGAAATAAGAACAAGGA AAAGGCCAGCCAAAGAACACCAGGGGGGGGGGAAAGGAGAAG GCCAAAACCAAAGGGGGGAAAAAAAAGGAAAAAGAGGCCCCC C GAACAAAAAAGGAAAAGAGGGGGGCCACCCGAAGGAGAAAG GAACCAGAAAGCCGAAGGGAGCCAAGGAAAACCGBAAACAGG G G G A A G GAGGGAGGGCCGGAAAGGAACAAAGACGGGGGGCC G
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 CAAAAGGAGAGGACAAAGGGGAAAAAAAAGACAGAGACAA GA

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 $G G G A A A A G G G G G G A A G G A A G G A A A A A A A A A A G G G G A A A A G G G$ $G G A A C C C C C G G A A A A G G G G A A G G G G C C A A A A G G G G A A G A A A A$ $G \subset A G G G A A G G G A G G A C C G G G A A G A A A A G G G G A G A G G G A G A G A$

C GAAAGGCCAAGGGAAAGGAAGAAAGGAAACAAGGAAGAGGA A A A G G A A A A A A A A G GAAAAAAAACCACAAGCCAAAGAAAGGG G G G G G A A A GAAA A G GAA A G G GACGGGAGAGGTAACA GAA G GA CAAGGGGAACCCCGGAGAGCAGAAGAGAGTTGGGAAAAAAAG AA G G GACACAGGGAAGGAAAAGAAAGGCCGAGGGGAAGAAGA GAGAGCCGCGGAAGGCCAAAAAAAAGGAAGGAAGAGGCCGGG GAAGGAAAGGAGAGGCAAAGGAAAAGGAAGGAAGGAAAACAA AAAAAAACCGGGGGGGGGGAGAAAGCCAGAAAGAAAGAAABAA
 G GAAAGGAAAGAAGGAACAAAGGGGGAAGGCGGGAAGCACAA G G GCAAAGGCAAAAAAAGGGGAAGGGACACCGGGGAGGGGGA $G G A A A A G A A G G G G A A A A G G G G A A A A G G A G G G G G G G A C A G G A G$ G G G A A G G G G A A G G A A G G G G A A G G A GAGAGCCAC G G GAGAGA A G G G A G G G G G A A A A A A G G G A A A A A A A G A A A A A A G G G A C A G G G G GAAAGAAGCCCAAGGGGGGGAAAGGAAGGAAAGAAAGGAGAA GACGGCAGGGGGGAACCGGGGCCCAGAAGCCACAACCAAACA A A A A A G G A A A A G A A A A A A GCGGGCAGGAAAAGGAAAA GAGAA A A A A C C C A GCCAA GACAAAAAGAAAAAAAGGGGGGGGTXGGG1 GAAGGGACAGAGGGGAGGGAACAGGGAGAACGAAGAGGAACB G G G A A A G A A A G G GCAAAGGGGGACCAAGGAACCAAAGAGCAC A A A A A ACAGGGGAAGGAGGACAGAGCAGGGGAAAGAA
C C GAAAGGGAGGCCCAAAGGACAAGGAGAGGAAAAGGGGAG G G GACGGACCAAAGGAAACACACGGGAGGGAAAAGAACCAAA A G G G A G G G G A A G A G A G G G G C C G G T T G G A G A A G G G G G G G G A C A

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AAAGGCCGAAGGGAGGGAAGAGAGGAAAGCCCCAAAGAGGAA A G G G G A G T ACCAA GAAAAAAGGAGAGACCAGACAAAAGAAAA A A A A A A A A A G GAA $A \operatorname{GAAAAACCGGAGAGAGAGAGGGAAAAAAG}$ G G GAGAACAGGGGGGAAGGGGGGAAGGAGAAAACCAAGGGGA A G GAA A A A C G GCA $\mathcal{A} G G G G G C C G G A G G A G G A G A A G G G A A A G G A$ A A A A A G G A GAC $\mathcal{A} G G G A G A A G A G G G A G A C C A A G G G G G A A A A G G$ A G G A G G A G G G A G G G A G A A A G G G A A GAA A GACAA A A G GAA A G G A G GAAACGGAGAAAGAAGAGGGGGGAAAACCAACCGACACAG A A GAAAAAGAAGGGGAGCCGGACGACAGGAAAAAAAAGAAAA AAAAAAAGGGGATGGAGGAGGCCGGAAAAGGCAAAGAAACAG G G G GAAAGGCCAAAAGGAAAAAAAAGGAAGGAGCAAGAAGAA A A A G G A A G G A A A A A A C C G G G G G G C C A A G G A A G G C C A A G G G G C
 A A A G G A G A G G G GAAACCAGGGAACGGACCACAAGAAAAAA G G GCCGGAAGGAAGGGGCCAACCGGGGGGGAGAGAAGAGGGGGG GAGGAAGAAGAAGGGAGGGAACCGGGGCAAGAACCAAAAAAA AAAAGCCAGTTGAACGGAAAAACCCAAACGGGAAGGACCGGG GC GA G A A A A A A A A A A A A G G GA GAA G GAAAGGGGAC GAAA G G G $G G G A A A A G G G G G A C G G A G G A C A G G A G G A A A A G G A G A A A A C A A$ A G G G G CAAA A G A A A A A A G GAA $A \operatorname{A} G A A A A A G G A A A G G A A A A G G G$ GAAAGGGGAAAGGAGGAAAGAAGAGAAAAGGAAGGGGGAGGG G GAGACAGGGAAGAAGGCCCCGAGGAAGGCCAAAAAAAAC GC C G G G G G A A A A A A A G G C C G A A GACAGGAGAGAAGCCAAGACCA A G G A G A A A A A G A A G GAGGGAAGGCCCCGAAGGGGGGGAAGAA GAGGAGGAAAGCCGAAAGACCAAAAAGAGGGGGAAGAACGAC CAAAAGGAGGATAAAGGGAAGAAGACAAGAAAGGAACAAAAG GAAA $A \operatorname{GA} A A A A G A A A A A G G G G A G A C G G C C G G A A A A G G A A G G A$ A A A A A G G A A G G G G A A A GAGAAGGAAAAGAGGAAAAAAAAG GA
 AAAGGAAAAAAGGAAAGAGGGGGGGCCGGAAGGGGGGCAAAC CAAGGCCAAAAGGGGAAGGAGAGAAAACCGGAAAAAAGAAAG GAAAGAAGGGGCAAAGGGAGGAAGAGGAGAACCAAGGGGGGA A G GAA A GACAACCCCAGGGGGGGGGGGGGAAGGGGGGGGGAA
 A A A A A A A A A A A A A A A A A A A GGGGCCAGGGGGAAGAAGCAAAA CA GAAA $A \operatorname{G} G \mathrm{GA} A A A C A A A A A A A G A G A A A G G A A A C A A A G A A A G G$ G GAGGAAGGGGCCGAAGGGAGAGGGGGAGGGGGGGAAGAAAA AAACACCGGGCAAGAGGCAAAAGGCGGTTGAAAGAGAAAGAG GAAAGAACCGAGGAGCAAGAGAAGGGAAGAGGGGGGGAAGAC C G GAACCGGCCAAGGCCAAGGAAGGAAAAAAAACCAAABAAG GAAAAGGCCGGAACCCCGGGGCCAAGGGGGGGGCCAAAAGGG G G G A A A A A A A A G GAAGGCCGGAAGGAAAACCAAGGAAAAAAA AAAAAAAGGAAGGAACCGGAAGGGGCCCCGGAAGGAAAAAAA A A A G G A A G G G G G G A A G G A A A A A A G GAAGGAAGGGGCAAAAAA A A A G G G G G GCCAAAAAAGGAAGGAAAAAAAAGGGGGGGGGGG GAAAAGGCCGGGGAAAAAAAAAAGGGGGGAACCGBAAGGGGC CAAAAGGGGAAGGAAGGAAGGAAAACCAACCAAAACGCCGGG GAAAAAAAACCAAAAAAAAGGGGCCAAGAGGCCCCCACCGGG A GAAA A GAAACGGGAAGGGGAAAAAAGAAAGAACCAGGGAGG GAAGAAAAAGGGGGAAAAAGACCCCAGAAAAAGACAGAAAAC CAAAATTAAAACCGGAGAAAAAAGAGGAAGGCCAGAGAATAA AAAGGGGGGCAAGAGGAACGGTTCCAAAAAGAAGAGAGAAGG
 AT TAGAGAAGAGGGAGGGGAAAGAGAGGGAAAAAAGAAAAGA GAGACGGGGAAAGAAGGGAGAGGGAAGGGGGGACCAAAGGGG A G G G G A A G G A A A A A A C C G G A A G G G G G A G A G G A T G G G G G G G G A A A A A A A G A A G G A A G G G G G G A A G G A GAGGGACACCAGGAAGAA A A A A A T A C C A A A A A C G G GAAGGGAGAAGGACGGAGGGAACAC $G G A C C A C C C A A A A G G G A C C A G G A G A G A G G G A G G G G A G A G G A A$

G G GAA A GAAAACCAGAAGGGAAGGAGGGGGGCAAAGACCGGC C G G GAA A A A GAGGAGCCAGAAAACACCGGGGGGAAGGGAAGC CAAAAA A A A G GAGGGAGAGGGGGGGAAGAGGGACCGGAAAGA AACGAAGAGTAAAGGGGAGCCGGAAGGAGCCAGAAGGAGAAA GAAAAGGGGAACCAGGGAGAAAGAGAGGAGAAAGGTTGACCA GAA A G A A G G G GAGCCGGAAAGAGGGGAGGGGGGAAAAGACCA ACCGAGGAGAGGGGGAAAGAGGGACAAAAAACCGGGAAAAAA A G G G GCAG GAGAAAGACAGCAGGGAGGGAACGGGGAACACAG A G GCCAAAAGGCCGGGGGGAAAAAAGGAAAAAAGGGGGGGGA AAAAACAGAAGAACAGGCGAAGGGGAAAAGGAGGAGAGGGGA A A A A A A A G G G G G G G G G G A A A A G GAGGGAAAAGGGAAAAAA A A GAAGAAAGAGAAGAGGGAAAGAAGAGAGGGGGGGGGAAACCC A A GAAA A GAAACCAAGGCCAGGGAAGGAAAGAAAAAAGGTTG GAAGGAAGGAGACGGAGGGACGGGGAAGGCAAAGGAGGAAAG GAAAAAACCACGGGGGGGGAAAACCAAAAGGAAAGAAGAAGA G GAA A A GAAGAAGCCGGGAGGGGCCCCGGAAGGCCGGCCGGA $A G G G A A G G A G A G G A A A A A A A G G G G G G G A C A A A G A A G A A A G G G$ G G G G G G G G GCC G A A GAAGGGGAGACGGAACCAGGGAAGAAGA $G C C G G G G A G G A A G A C G G A A G G G G G A A A A A A A G G G G G G C A C A A$ A G G A G G A T T G G GAAA $A \operatorname{A} G A A A A G G C C C A G A A A G A A A G G G G A G G$ G GACAGAAGGGGGGGGGAAAAAAGGAAAAAAGGGGCC
G GCCAAGGGGAAAGCCAAGAAAGGAAGGAAAACCACAAGCG A GCAACCAAAGGGGAAAAACCGGGGGGAAAAAAGAGAGGAGC
 GAAGGAAAAGGACGAGGAAAGAAGGAAAAAAAAGAAGAAGAG A A A GAGGGGCAGAAGAGGAGGGAAAGGGGCCAAAGGAAAGGG

 G GAGGCCAAGGGAGGAAAAAAGGAAAAAAAGAGAGGAGGCCA AAAAGGAGAAGAACGAGAAAAGGAAGAAAAAAAAAGGGGCAA A G G G G G G G G G G A A G GAAAGGGACAAAAAAAAAACCAAAAA GA AAAAGAAGGGGGGGGGGCACAGAGGGGCAGAGAGGAACAAAA GAAAGAGGGGAGAGGGGAAAAGGGAGAGACAACGAGACAAGA C C A A A A A A A GAGGAGAGGGCCAAGGCAGGGGGGGGAAA GAGA A G G A A G G A G A A A G G GACCCAGAGGAAAAAGGAAAGGGGGCCA $A G G G G A A A A G G G G G G A A C C G G A G G G G G A G A A G G C C G B A A G A A$ A A A A A A A G GAGGAGCAGGGCAGGGAGACAGGGGAAAGAGAAA A A G GAAACCAAAAAAGGGGGGGGTAGAGGGGAAAAGGGEGAA A A A G G A A G G G G A G G A A G G A A G G A A G G A G A A C GACC G G G G G A A
 AAAGGGGAAAAGGGGAACCAAGGGGGGAGGGGAAGGGAAGAA G G GAAAAGGCCAAGAGGGGAGACAGGGAGAGGAGGAAAAAAA CACAAAAGGAGAGAGAGGAGGCAGGGGGGCCGGGGGGGAAAA $A G G G G G G A G G G G G G A A A A A G G G G A A A A A G G G G G A A A A A G A G G$ A A GAAA A A G G G G G G GAAAACCCCGAGGGGGGAAAC GAACAG G G G G GACCCCAAAAAAGGGAAAGGCCGAAAAGGGAAAAGGGGA GCCGAGGAGAGAACCGGCAGAACGAGGACAAAAAAAGGGTTG G G G GAGGCCGGAGCCACGGAAAAGGACAAAAGAGACCAGGGG G G GCCAAGAAGGAAGGAGGAAGAGAAAACGAGAAAAGGAGGG GAAGAAGACGAAAGGGAGGGGGGAGAAACGGAAACAAGGGGG GAGGAAGCCAAGGAAGGGGAAGGGGGGCCAAGGGGGGAGGAG G G G GACCCCAGGGAACCGGGGGGGGAAGAACGAACAGGAAAA A G A A A C A C C G G A C A C G G G G A A G G G G G G C C G G C C A A A A G G A G C C GAACGAGAAGAAAACCGGGGCCGAGAGACCGGAAAAACAAA $A \subset C A G A G G A A A G G G G A A G G G G C A G G A A A G G A A A A G G G A A G G G$ A A A G GAGGGGAGGAGGAATAGGGGGAAGAAAAGAAAGAAAAG G G GAGGAGAGGACAAAGACGGAGAACCAACCAGAGAGGAGGG GCCGGGGGAAAGGGGGGGGAAAAAGAGGAGGAAAA GAGACAA GAAAAGAGGGGAAGGGGAAAGGGATAGCCGGGGCCGAAGGAA

G G G G G A A G A G G G G G G G A A G G G GAA A GACC G GAA A GAAA GCC G A G G A G G G G GAAAGCACCAAAAAGCCAAGGGGACAGAAAAACC C GAGGAAGGCCAAAAACGAGGAAAAGGGGGAAGGGAAGAGGG $G C C A T A G A A G G A A A A A A G G A A A A G G C C A A G G A A A A C C A A C A G$ G GAACGGAGAAAAAAGAGGGGCAAAAAGGGAAGGGAGCAGAA GAACCAGAGAAAAGGCCAGGGAACCGAGGGAGGAAAAAAAAA A G G G G A A G G G G A A G A C C C C G GAGGGAAGGAGAGGGAGAAAA G AACAGAGAGAAAAAGACAGAACCGGAAGGGAAGCGAGGAGAG GAGAGGGGAGGGAAGAGCCAGAAAGGGGAAAAAGAGAAAGAG G G G GAGGAGAAGAACAAGGAAGGGGGAAGGGAGAGACAAGAC $C \subset A G G A A A G G G A A C A A G A G A A G A A G G G A A G G A A A A C C A G A A G$ A GAGGCAGAGAAAGGCCAGGAAGGGGGGAAGAAAAAAAAGAG GAAGGAAGGAGAACCAAAAGGAAGGGGAAGGGGGGGGGGGGG G G GAAGGCCAAAAAAGGAAGGGGAAGGAACCGGAAAAGAAAG GAAGGGGGGGGGGGGAAGGGGGGAAAAAAAAAAAAAAGGGGG G G GAAAAAAGGAAAAGGGGGGGGCCAAGGAAGGAACCABAAA $A \subset C A A G G G G A A A A A A G G G G G G A A G G G G G G A A G G G G A A A A A A A$ A G G G G G A G GCC $C$ G $\operatorname{CAAAAGGGGGGAAAGGAGAGGGGGGCAAAA}$ A G G G GAAAAAAAAGGAAGGAGGAAAAAGAGGAGAGGAGAAAC A G G G G G G G GAACCCCAGCCAGAAAAGAGAAGCXAGACGGGGG G G GCGAGACAGAAGAGGAGAAGGAAAAAGAGGGAAAGGAAAA
 GAGGGAAGGCACAAGAAGGAGAAGGAAGGGGCCAAGGGGGGA GA $\operatorname{G} A A A A C C A G G G A A G A G G G A A G C C G G G A G G G A G G G A G A A G A$ G G A A A G G A A A G A A A GAA $A \operatorname{GA} A G G A A A T A C C C A G A G A A A G A A G G$ G G G GAGGGGGGGGAAAACCCCCCAAAAAAAAAAGGCAAACCG
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 C G G GAAAGGAAAAGGAAGGGGGGGGAAAATTAGGGAACAGAG A A G A A A A A A A A A GTACCAAAAAAGGAAGGAGCAAACCGGGGC C G GAGGGATCAAAAAGGAGCCGACCAAGGCACAAAGGAAAAG A ATGAAAGGGAATAACCAGACAAAAGGGGGGAGGGAGAAAAA A A A G G G G G G G G A A A A A A A A G GAAAAACCCAGGGAGAAGGAGAG GAAAAGGGGCCAGGGGGAAGAGGAAGCGGGAAGAGAAGAAAC
 A A A A A G G G G G GCC G G A A A A A A C C G GAACCGGGGAAAAG G G G A A A A G G A A G GAA $A \operatorname{GGGGGGAAGGGGAAGGGGAAGGAAAAGGGGG}$ G G G A A G G C C A A A A A A A A G G G G A A G GCC A A A A A A C C G G A A G G G G G GAAGGGGGGAACCGGGGGGGGGGGGGGCCAACCAAAAAAG

GAAGGCCAAAACCCGGGGGAGGGGGCCAAGGCCGGGGAGAGA GAGGGGAGGAGAGGGGACCACAACAAGGGGGAAGGAAAAGAA C GACCAACCGGAAGGAGAGACAGGGAAGGAAAAAAGAAAAAG GAGGGGGGCAGGAGGGGAAGGAAGGAAGGAAAAGAAAAAAGG GAAGGAAAACCGGAAAAAGGAGAGGAGAAGGAAGAGGAAAAA G G G G GCAGAGGGAAAAGAAACCCAAGGAAGAGAAGGAGAAGG GAACCGGAACCAAAAGGAAACACAAGAAAGGGGAGAAGAAAA $G G A A G A A A A G G G A A A G G G G G A G G G A G G A A G A G G A A A A C A G A A$ A G GCCAAAAGGGGAAAAAAGAGGAGAAAAAAAGCCAAGAACA $A C C G G C A C C A A G A A G G A G G G A G G A G A G C C A G A G G A G G G G G G C$ C G G G A A C G G G G G G A GAA A G GAA A GAAGGGAACCGGCCAAAAA
 GAAA A A G G G A G A A A A A A A A G G G G G A GGGGAACCAGGGAA G G A C G G A A A G A A A A A A A A G GAA GAGAAAGAGACAGAAAA GACAGG GCAGGCAAAGGAGGGGGAGAAAGGGAAGGAAGGCCGGAGAAA GAGAAGGAGGAAAAAGAGAGACCGGCCAGCCAAAAGGACAGC CAA $A \operatorname{G} A A A A A G G G G G A A G G A A G G G G G G A G A G A G G A A A G G G G G$ GAAAAGGGGGAAGCCAAAAAAAAGGGGAGGGGGGGGGAGAAA GAGGGGAAGGAGGGGGACAAAGGAAAAAAAAGGGGGAGAAAAG
 CAAGGAGAGGGGGAGGGAAAAAAAACCAGCCGGGGGG
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 CAGAAGGAGCCCCCCGAGGCAAGAGAAGGCCGGAAAGAAGAA AAAGAACGGAGGAACAAGGAGAGGGAACCAAAAAGGAAAACB GAGGGGGAAAAACAGGGAAAAAAGGAAAAAAAAGGGGGAABA $A C C A A G A A G G G A C A G G A G G A A A G A A G G G G A A A A G G T T G G G A A$ $G G A G G A A G G G G C A A C G G A A A G A G A G G A G A A G A A A A G G A A A A G$ GAAGAACAAGGGAGGGGGGAGAGCCGGGACCACGBAAAAAAG
 T G GA $A \operatorname{GA} A C G G G G G G C G A G G G G G G A G G G G A A G G A G A A G G G A A$ $A C C G G G A G G A A A G G A G G A G A G G A A A A G A A A A C C A A G G A G G G A$ G G GCC G G A A G G G G A GCCGGCCAGAGAAGGGGAAAAAAG GGGA $A C C A G A A A A G A A G A C G G A C A A G C A G G G A A A A G G G G G A G A G A G$ AAGAGAGAACCGGGGAGAAGGAAAAGGGGAGGAGAAGAACAA G G GAA A A CAGGAAA GAGAAAAAGAAAAAGAAGGGGGGAATTA A A GAGCAAGCAGGCCGAGAAAGGGGAAAACCGGGGAAGGGAA A G G G G C A A G G A A A A A A A A A G G G G G A GAC C GAGGA GA G CA GAC CAGAAAGGGCCAAGGGCAAGGGGAAGGAACCAAGGAAAAGGA
 A A A A A A A A A G G G GAGAGAGAAGGGGGGAACCGGAGGAGAACA
 G G GCCAAAAGGAGGGAGAAAGGGAAAAAACACGGCCAAABG G G G C A G G C A A G A A G C G G A A A A A G A A G G G G A A A G C A A A G G G G G G G G G GCCGGC CAA G GAAGGAAGAAGGGAACAGAGGCCAATTC C G GAA $A \operatorname{GGGAA} A A A A A A A G A A G A G A T T G A G G G G G G G G G A A A C$ C T TCCAGAAAAGGAAGGGGGAAAAACCGAGAGACAGAAAAAA A A A A A C A G A G G A C G G A G G GCCAGGAGGGGGGCC GAAGGAA GA G G G A A A G G A G G CAA A A GAGGAGGAAAGAGAGAAGAAACCCCG A A C A C A A G G G G G G G GCCGGAA GCGGAAGAAGAAAAGGAAG G G G GAGAGAGAGGAGGGGAAAAAAATTAAACAGGAGGGGGAAGA AAAGGAACCCAGGAAAGCAAAGGGGAACCGAAGGGCAAACCG $A C C A A G A G G A A A A C A A A G G G G G G A G A A G A A A G G A A A G A G A C B$ GCCAGGAGGATAAAAGGAAGGGGCCCCGGAGGAAGAGGAGAA G GAA A A G A A G G G G G G G G A A A A A A $\mathcal{A} A A G G G G G G G A C C A A G G G G A$ G A G G A A GC CAA A G G G GAAAAAAAAAAGGAGACAGAAAG GAAC G $G C C A A A A G G G G A A C C G G A A A A C C G A T A A G G A C A G A A C A B A A G$

GAGAGAGAAAGAGGGGGCAGGAAAAGGACAACCACAAGGGGG
 A GAGAGACCGACCAAGGAAGGGGAAGGGGGAAAGAGAAAAAA A A A A A G G GAGGGAGGGGGGGCAAAAGGAAAGGAAAGGAGAAA ACCAAGGAACCGAAGCAGACCGGAAAAAACACCCCGAAAAAA G G A G A A A G A A G A C A A A G GAGGGAAGAGCCGGGAAAAGAAG G G A G G A A A G A A G G G G G A G G G G A A A A G G G G A G A A A G G A A A G G G G G G G G GAAAAACAGGAGGGAAGGAAAGCCGAACAGAGGAAAGGG GAACCAAAGAGAAAGAAGGGAAAGAGGACGGAAAAAAGGGGC AAGAAGGAAGGCCAACCCCAAGAGGAGGGAAGAGAAGGAGGG GAACAGGCAAGGGGGAAAGAGGGAAGGAAAAGGCCGGGAAAG G G G A A $\mathcal{A} G \operatorname{G} G A A A A A G G G G A A G G G G G G G G A A G G G G T T A A A A C C C$ CAACCGGGGAACCAAGGAAAAGGAAGGAAAACCAAGAAAGBA A G G A A G G C C A A A A A A A A A A G G G G A A A A G G G G G G G G A A A A C C G G G G G GAACCAAGGCCAAAACCGGAAGGAAAAAAGGGAAAAAG G G G G G G G G G A A A A A A G G G G G G A A A A G G C C G G C C A A C C C C C C G G G G G G G G G G G G G G A A A A $\mathcal{A} G G G G G G G A A G G G G G G G G A A G G C C A$
 GAAGGGGGGAACCAAGGGGAAAAGGAAGGAAAAAATTCAAAG G G G A A C C A A A A A A G GAAAAGGGGCCAAAACCGGGGCCAAGGG GAAAAAAGGGGAAGGAAAAGGGGGGGGAAAAAAAACAAACCA A G G G G G G G G A A A A G G G G G G A G G A A A A A A A G GC C A A G G C C A A A GC G G A G G A A G G G G G G TACCCCAAGGGGAGGGAGCCCCCCCCA A A GAGCCGGAAGGACAAAAAAGGAGATGGAGGAAGAGAAAAA
 GAGCCCCAGGAAAGGAGAGGGAACCCAGGAGGGAAAGCCAAG AAAAACCGGAGGAGAACAACCAACCGGGGAAGCGAGGCAAAA G G G G G G G G G G G A A A A A G G A A A G G G G A A G G G GAAC CAA A A C A A G G G A G A G C A A A A A G G G A A A G G G A G A G G T T A C G G G GACC CA G A AA $A G G A A A A G G G G G G A C A A G A G G A A A A A A A G G G G A G G G A G G G$ A GAA A G G G GAGAGAGGAAAAAGAGAAAGGAGAAGGAAAAAAC $C \subset C G G A A G G G G G G G G G G A A G G G G G G G G A A A G G A G A A A G A A A A$ AAAAAAGGGAAAAAGGAGGAGCCAAAAAGAGCCCCAAGAGGC C G GAGGGAAAAAAGGAAAGCAAAGGCAAAAAGGBAAGAAAGG A G A C C G A G GAGCAGGGGCCAAGAGGGAAGAAAGCACCAAAGBG $G C A C C A G G A A A A G G G A G G G G A G A G G G A G A C C C C A A G G G G A G C$
 A GAAGGGGGACACGGAAAAAAGGAAAAGAAGAAGGGAA G GAAA A GAA $A$ A G A A A A A A A A A A A A A A G ACCGAGAGGCCGAAAGAAAG GCCAACCGGGGAGAGCGAAGGAAACAGAGAGAAACAAGACCG A G G A A G A A A G A G GAAC CAA A A G GAAAA A GAGAAGGAGGAAC G A G G C C G A A G A A G G G A G A G G C A A G G G A G A A A A G G C A A A A A G G A A GAAAGGAAAAGGGAAGAACCGGGAGGGAAGGAGGCAAAGGA $C \subset C A G A A A A G G A A A A G G A A C C C A G A A C G G G G C C A G G A G G A G G$ A G G A A G G A G G G A G G GAAC CAAAAAAGGGGAGAGAAGA GAAA GA CAAAGAAGACCGGAGGCAAGGCCAACCAAGGGGGGGBAACAG A G G A G A A A A A A G G A A A A A A A C C GAGAAA A A GA GAA G GA GA G A
 GAAAA AA $A \operatorname{A} G \mathrm{G} G \mathrm{G} A \mathrm{~A} A C A G G A A G G A A A A A G G G A G A A G A G G G G G$ A G G G A A $\mathcal{A} G G G G G G G G A G A G G G G A G A G A T A A G A C A G A G A A A A A$ A G G A A A A A G G G G A G A G G G GCC G G G G GAAACCGGAGG GAAG G C C G A A A G GAAGGAAAGAAAGGGGAAGGAAAGAGAGAAGAAAGA
 GACCAAAGGAAAGACGGGGACAAAAGGAAGGAAAAAGGGCCA
 $G C C G A A G A G G G A G A A A A G A G G A A A A G G A G G G G A A A A A A G G G C$ C G GCC GAGGAGAAAGAAGGGAAACCGGGGAAGGGGGCGAAAG GAAAAAGGGTTGGGGCCGAAACCGGAGCACAGGAGGAGAAGA GAGGAGACCGGGGGAAGGGAACCAAAGAAGGCAAAAAAGAAA

GAGAAAGGGGGAGGAGAAAGGAAAAGAGAGAAAAA GGGGGGG A A G G A A GCCGGGGAGGGAGGGAAGGGGGACAAAA GAGCAGET TCCAA $\mathcal{C} G A G A C A A A G A C A G G G G A G G G G A A G G G G A A A A A A G A G$ AAAGGAAAAAAAAGGCCAAGGAACAGGGGAGATAAAACAAAG GAAAGGGAGGGAAGAGGAGGGGAAAAAAACCGGAACCGGGGA A G GCC C G G G GAAAAAAAAGGGGGGGGACAGAAGGCAAA GAA GA GAAAAAAAAAAGGGGGAAGAGAGAAAAAAAAAGGAAGGGGGG GAAGGGGAAGGAAAAATCAGGGGGGGAACGCAGAAAACAGGG G G G G G A G A G G G G G G A C C A A A A A A C C A A G GAA A A A G G GAAA A A CAAGGAAAAGGCAAGGAAGAGGGGGGGGGCAGGGGAGAAGGG GAGAAGGAAAACCCCGGAAAAGGAAAAAAAAGGAACCAATTG G G G G G A A A A A A A A G GCCGGGGCCAAAAAAAAGGGGCAAAAAA A G G G G A A G G A A A $\mathcal{A} G G G G G G A A G G G G C C A G A G A A A A G A C A A G C$ A A A A G A G G G A A A A A A G A G A A A A G G G G A G G G G CAC CACAAA A A G G G G A C A G G G G G G A A A A A G G G G G A G G G A A G G C C G G A A A A G G C A G G G G G G A GAAAATTAGGGAGAGGGATAGCCGAGAAAAAAAA
 A G GAAAAGGGAGGAGAACCAAGGGAAAGGGGAGAGGGGAAAA A G G G G A A A A G G A A A A A C G G G GAA $A \operatorname{AGAGGGAAAAAAAGGGGAG}$ G G G A G A C G A G A A A A A A A G G A CAGGAGAAGGAAACCAAGGCCA A GGAACCAAAAAGACGGGGGGCCCAAGGAAGACAGGG
CAACAAGGGGAAGGAGAGGGCCAGGGAAGGCCGAGAGGGGA C G GA $A$ A $A C C G G A A G G G G A G G G A A G G G A G G G G A G G A G G C A A A A$ GAAAAGAAGAAAGAGAGAGGGAGAGGGAAAAAGAAGAAAGAA A A A A A A A G G A A A G A G G GAGGGAAGGAAGGAAAGCCCAAACAA GAGAGGGAAGGAGGAGAAACACAAAGGAGAAGGAACAAAAGA GAAGGAAAAGAGGCAAAGGAACAGGGAGGAACCAAGGGAAGA G G G A A A G A GCCGAGGAAGGAGAGAAAAACGGGGCGAAAAA GA G G G G G A A G GCA G GA G G A A C GAAA $A \operatorname{A} G A A G A A A A A A A G G G G G G A$ AA $A G G G A A A A A G G G G G A G A A A A G A G G A A A G G A G G A A G A C C A$
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 GACAAGGAGGGAGGAAGCAGAGGGGAAAA GAAAAAAAAGGGGG A G G G A G G A A A C A G G GAAA $A \operatorname{AGGGAGAGGACAAGACCCCAAGAG}$ A G G G G A G A G A A G G A G A A A A G G A A A A A A A G GAGGAAAAAACAA C G GAAGGGAAGGGAGCCAAAAAAGAGGAGCAGAAACCCACAG GAGAGACGGAAAAAGGGGGAACAAAGAAGAGAGGGGGGAAAAA
 A A A A A G A A G G G GA $A \operatorname{GA} A G G G G A G A A G A A G A G G A G A G G G G G G G$ $G G A G G G G A A G G G G A G G G G G A A G A A G G G A A G G A A A A A G G A G G G$ ACATAAGGGGAGACCACGGGAGAAACCAACAAGAGAAAGAAA AAAGGAAAGAAGGGGGACAGAAAGGGGATTTAGCGGGAGGCG A G GAAAGCCAAAAGACCGGCCGGAAGGAACCAAGBAAGGGGC A G A A A A A C A A G A A C C G G GAGAAGGACCAGCCGAAAAG GAAAA GACAGGAAGCAAGAACCGAACAAAGAAAAGGGGGGAAAAGAT TGGAACCAAGGAAAAAAAAAACCGGGGGGGGAAAACCBAGGG
 AAAGAGAAAGACAGGAGCCAAGAGGGGGGGACCGGAAGAAAA GCCAGAGGGAAAAATGGAGACAAGGAGCAGAAACCGGCAGGG A G G A A A A A A A A A A A A C C GAAA $A \operatorname{AGGGGGGGGAGCCGGAATTT}$ A A A A A A GAGCCGGAAAAAGGGAATTGAACGGGAAGGGGGGGA A G G G G G G T A A G A A C CAA A GAC GAGGCCAAGGAAAAAA GGGGG G G G G G G G A A A A A A G G C G T A G G A A A A A G G A A GAAAA A G G G G G G G G GAAAGGCCAAGGGAAGGGCCGGAGAAAAGGGACAAAAAAAA AAGAGACCCGGAAGGAAAGAACCAAAAAAGGCCCCGAAAAAA GAAAAAAAAGAAAAAGGGAGAAAAAGAGGGGAGGGAAAAGGG GTTCCGGAAAGCATTAAGGAAAACCAAGGAGGAGGAAGAAAA $A \subset A A G A A G G A A G G A G G A G G G A A C A G G G C A G C G A A G G G G C A A A$

AAGAGGAGAGGCAAGGGAAAGAAAAAAAAGGGGCCGGAGAAG A A A G G A G G G A A GAC C $\mathcal{A} G G G G G G G G A A G A G A A G A A G G A A A A A G A$
 $C G G C A G C G A C C G G G G A A G A G G C G G G A C G A A G A G A A A A A G G G G$ GCCACGACAAGGAGACCGGGAAAGAAGGGGGAGACAAAGAAG GAAGGCAGAAGAAAAAGAGACACAAAAGGGGAGAGGACAAAA A A A G A G A A A GAGGAAAAAAAAAAGGCCGGAGGAGGAAGAAA $A C C G A A G G G A G A A A C A G A C G A G G A A G G G G G G G G G A G G C C G G A$ A A A G G A A A GAGAGGGAAGGACCCCAGGCCCAGGAAGAAAGGG GAAGGGGAAAGAAGAAAAAAACACCAAAAAAAAGGGGAAAAG ACAGGAAGAGGGGGGAAGGGACCAAGGGGGGCCAAAACAAAG GCCGGGGGGAAAAGGAACCAAGGACGAGGAAAGGGAGAAACG
 G GAAAGAAAAAAAATAAGGGGGAAGCAGAATCAGAAAGAACA AAAGAAAGAAACCAACCTAAAGGAGGGCAAGAAAAGGAACCG G G G G GCATTGGAAAAAGACCCCCAAAGAAAGTAAAAAG GGAT TAAACAACCAAAAAAGAAGAGAAGGGGGAAAGGAGAGCAGAA GAAAAAGGGAGAAAGAGACAGGGAAGGGGAAGGAAAACAAGC AAAGGGGAAGGGGGGCCAGGACCGGGGAAAACCAAAGAAAAA A G G A A A A G G G A CACATAAAAAGAAGGAGAAAAACCCAGGGGC AGGAAAAAAGACACACCAAAAAGCCGGGGAAGGAAAAAAAAA A A A A A A G G GAA A G G G G G G GAGCCCCGGCGAGAGGGAAGAAAA G G G G GCCAAAAGGAAAACAGCAGGGAGCCCCAAAGAAACGGA G G G A A C C G G A G G G A A A G A G A G G A G A A A A G A G G G G G G G G A G G G GAAAACAAACCGAACAGAGCAAAGGAATTGGGGCCAAGAAGC CAGAGGGCCAAAAAGAAGGAAGAAAAGAACCGGAAAGGAGGA AA $A G A A A G G C C A G G A A A G G A A G G G G A A A A A A A A G G G G A A A G G$ GCCAGAAAAGGGGAGAGGAAGAAGAAGACCAGGAAAAAAGAG GAA $A \operatorname{A} A A G G G A A G G G G A A C G A A G A A A A A G G A G G G A A G G A G A G$ $A C C A A A A A G A A A A C A C C G G A G A G A C G G G G G G A G A A G A C A A G A$ GAAGGCGGGGGCCAGAGAACCCCACGGGGAAAGGAGAAAGGA C GAGGAAAGGACCAAAGTTAAAGAGGAGAGAGAAGCCGGGGA GAAAAAAAACGAACCGGGGACAGGGGGAAAGGAAAAAGAACAA G G GAAAAGAGGAAGAAACAAAAAGGAAGGGGAACAAAGAAAA C G G TACCGGGGCCGGAGCCGAAAGGGGCCAAGGCCAGGAGGA A A C A A G G A A A C A G A A G GAGAGGGGAGATTCCGAGGAAAACAA A GAAATAAGGGAAAAGAGCGAAGAGAAAAGACCAGGGGGAAA A G G G G GACCAACCGGGGGAGGAGGGGAGAAACCCCAAGAAAA
 GAGCCGAGGGGAAAGCCAAAACGAAAAACBAGACCAGGGGGG AGACCGAGAGAACACAGCAACCAGGGGAGAGGGGAGAGAAGG A GAA A A GAGCCGGAACAGGAAGGAAACAGCCAGGGGGAGABAA A G GAAAAAAGGAAAAAAGGGGAAAAAGAAGGGGGGAAAAAAC A GAGAGAAGGAAAAAAAAAAAAAGACCGGGGAGAGGAGAA GA GAGGAAGAAGAGGGGCGCAGGCCAGAAAGAAAGAGAGACACA
 AAGGGAGAGAAAAGGAAAACCAAGGGACCAGGGGGCCCCGGA A ACAAAGCAAAAGACAGCCAAGGGAAGGGAAAAGAAAGAGAG GCCAAAGGGGGAAAAAAGGAGGGGGGAAAAAGGCAGAAAAGAA
 ACCCCCCTTCCCCCCGGGGGGAAGGAAGGAAGGGGGGAAAAA G G GCC G GAAGAGGGGGGCCAAAGGGAGAAGGCCAAGAAAAGAC
 GGGAAGAGAGGAGAAGGAACAGGAAAAGAAGAGACAAGAGGA $A C C G G G G C A G A G G G A A A G G G G G G G G G G G A G A C A G G A A A A G A A$ A G G A C G G G G G G GAGGGGCCAGGGGAAGAAAGAACC GACAAAA GGGGGCAAGGAAGGAAAGAAGGAAGCCAGGGGGCCCAAAGAA G GAA $A \operatorname{G} G A A A G G C G G A A G G A G A G G A C A G A A G A G A A G A A A A C B$ $A G A G G C C A G A G G G A G G G G G G G A A G G C C A A T T G G A A A A A G A A G$

GAGAAGAAGAGGAACGGAGGGAAAAAAGGGAGGCCGGGAGAA GAGCCGGAAGAAAGACAAAGGAGAAAAGGTAAAGAAGAAAAA ACAAAACGGAGGAGAGAAGGGAAAAGAAGGGGGAAAAAAAGG AACAAGGGGGGAAAGGACAAGGAGGCAAACGAAAGAGAGAGA A G G G GCCAAAAAAGGAAAAAAAAAAGGAGGACACAAAGAAGG A A G A G A GCGGGGGGGGGGGAGAGGGAAAAAAAAGAAACCGGG GAGAAGCAGAGAGGCGGAAAAAAAGAAGGAAAGAAAAGAAAA ATTAAAAACACAGAGGGAGGAAGACCCGAGACACCCAGGTTG G G A G A A A A G A A A A G G A GAGGAGGAACCGAAAAGAGAGA GA GA G GAGGAACCGGGGGGGGAAAAAGGGCCGGAGAGAAGGGAAAG G G GCCAAAAAAGGGGAGGGAAGGGGGGAGGGGAGAGAAAAAG
 A G GAAAAAGCAGGGGGGGGAGAACCAGAACCAGCAAAAAAGG AAAGGAAGGACCAGAGGGAACCCGAAATTCCGACCGGGAAAG A GACAAGGGGGGAAGAGAGAAAAGGGGGGGGCCAAAAGAGGG AAACCGACAGGGGCAAACAAAAAAGAAAAGAAA G GAAAGGGA AAAAACCAGACGAATGAAAGGCAGCGAGAGGGGGGGAAGAAA A A A A A ACAAAAAAGGCCGAAAAACCGGAACAACAAAAGGGGA GAACCCAAAGAAAAAAAGAAGAGAAGAAAGGAAGGAAGAAGC CAAGGGGACCCAAAAAAGGGGGGAAGGGGAAAGAGGAAAAGAG GGGCCGGGAGAAAAGGGAGAAAAGGAAGGGGCCAAAA
G GAGAAACGAGGGGAAGGGGCCGAGGAAGGGATAACGGAAG GAAAAGGGGAAGGGGAAAAAAGGCCGGGGGGAAGACCABAAG A G GA G A A A A G G G G A A G A T T C C G G A A GAAAAATTAAAA GAAAC CACAGAAGAAGGAGAAGGGGGAAGGAAGGAACAAA GAGGGGA GAAAAGGAACCAAGACCGAAAGGGGAAAGCCGGAAAGCAAGA C G G GACAGGAAAAAACCCAAGAAAAGAGAAGGGCCGAGAAGC CAAACACAAGGCAAGACGAGGAGGGGGGAGAACCCGACAGGG G G GCCAAAACAGGGGAAGGGGGGAAGGAGATAGAGAGCAAAG GAGGGGGGGGGCCAGAAAAGGGGGGAGAAAGGGAGAGCAAAA
 GAGAAAGGCAGGGGGGGGGGGAGCCCCGAGGAAGGAAGGCCG GCCAGGGCCAGAAAAAGGAGAAAGGGAAAAAAAA GAAGGGAA GAA A G G GAGAGGGGGAGGGGAAGGAGGGAGCGGGGAAAAAGA GCCGGAAAAGGCACAGGAAGGAAAGGGGGAGAAGGAAAAGAA GAGGAGGGGGGCCAGGAGGCCCCAACCCCGGAGGGCCGGGGC AAGAAGAACAAAAGAAGCGAAGGCCGGAAAAGAAGGAGAAAG G G G G GACGGAGCCGGAAGGAGGAGGCCAGGGAAAACAAAAAA CACAACAAAGGAAAAAGCCGGGGGGGAGACCAGGGGGGAGAA A G G A A G G G A A A A A G G G A G G G GCCGGGA GAAGGAAA G GA G G A A $G G A G G G G A C G G A A A A A A A A G A G G G G G G G A G G G G C C G A A A A A A$ A GAGAA $A \operatorname{A} A G A A A A G G A A A C G G A G A C G G G G A A G G G G G G G A A G G$ GAA $A$ A A $A \operatorname{G} G A G G G A A A G A A A A A G A C G G A A A G A G A G G G G A A A G$ G G G G G A A A A G G A G GAA $A \operatorname{AGGGA} G G A G G G G G A A C C A G A A G A C G G$ A GAAACCTAAAAAGGCCGGGGAAGGAACGGGAAGAGAAGGGA C A G A A G G G G G A G G G A G G G G A A G G G G A A A G A G G G G G A A G G A G A A G A G G A G A A G A A G G A G G G A GACCGACCAAAACCGGGGAAG GA A G G G G G A G GAA A A GAGGAAAAGGTTGAGGAGAGAAAAGAAGA
 CAAGGCCAAGGAAAACCGGGGCCGGAAAAAAGGGGGGGAAAC CAAGGAAGGCCAGAAAAAGGGAAAGAAGGCCAAGGGGGAAAT TGGGGGGAAGGAAATAACCAGGGAACCGAAAGGGAAGGAAAA GAAGGGGGGGAGGGGGAAACCCCAGGGCAAACCAAAAAAGAG GCCGGCAGACCAACCGGAACAGGCATTGAAGCCAAGGCAAAG G G G A A A A A GAGAGGGAAGGGGCCGGAAGGGGAAGAAAGAAAA GACAAGGGACCGGAAGGGAGGGGGGAAAAAACCGGGAAAGGG GAAAAGGGGGGAAGGAAGGAAAAGGAACCAAAAGGGAAAGGA A A A G G A A G G G G A A A A G G G G A A A A G G GGGGAAAAAA G G A A G G G GAATTAAGGAAAAGGAAGGAAGGAAGGAAGGGGAAAAGGGGA

ACCGGAAAAGGCCAAAACCAAGGAACCCCGGAAGGAACAAAA ACCAA $C$ G $\operatorname{CA} A A A A A A A G G G G A A A A G G G G G G G G G G A A G G A A C C B$ GAAGGAAAAGGGGGGGGAAGGGGAAGGGGAAAAGGAAGAAAA A A ATTAAGGCCCCAAAAGGCCGGGGCCGGCCAAGGGGCCAAA AAAGGGGGGAAGGAACCAACCGGGAAGAAAAGAAAAAAAAAA G G G C A C C A A A C G A G G G A A G A A G G C C A A A A G GAGGG G A TAA A G G G G A A G G G GAA $A$ A A A G G G GAAAAAAGGGCCGGAGAAAAAAAAA GAAGGAGAGCACAGAAGAGGGAGGGAAAGGGGGAAAACCCCG A G G G G A A A A C C G GCCCCGGAAGAAAAAAAAAAAAA GAAAGGG G G GAAGGAAAGGGAAAACCCGAAGGAGAAGGAAAGAGAGAAG GAACCGAAGGGAAGGGGGGGGGGGGAGAAGGACAAGGGGGGA A G G G G A A A ACCCCAAAAAAGGCCGGAAAAAAAATTGGGAAAA A G G G G A A G G A A A A G G G GAA $A \operatorname{GGCCGGCCGGGGAAAAAAAACAA}$ A A A A A G G A A A A G GAAGGAAGGGGGGGGAATTGGAACCAAAAA A A A G G A A A A A A G G T T G GCC G G A A A A A A A A A A G GAATTCAAA G GAAGGAAGGAAGGAAGGAAGGCCCCAACCGGGGGGAAAAGGG $G C C A A A A A A G G G G A A A A A A C C G G C C G G A A G G A A A A G A A A A A A$ ATTAAAAGGCCGGCCAAAAAAGGCCAAGGAAAAGGAAGGCCG GTTAAGGAAAAAACCGGGGGGGGGGAAGGGGAAAAAAAAGGA A A A A A A A A A A A G G A A A A A A A A A A G GAAAAAA G GCC G GAA G G C CAACCGGAAGGAAGGGGGGGGCCAAAAAAAAGGCCAAGGGGG GAAGGAACCGGAAAAAAAAAAAAAAGGAAGGCCAAGGCCCCA A G G A A A A A A C CAA $A \operatorname{GGGGAAAAAAAAAAGGAAGGAAAAGAAAG}$ GAAAAGGGGGGAAGGAAAAAAAAAAGGAAAAGGGGAAGGGGA
 A GGAAAAAAGGCCAAAACCCCCCGGCCAAGGCCGGGAAAGGA A G GCCAAGGGGAAAAAAGGGGAAGGGGGGAAGGAAGGCCGBA AAAGGGGAAAACCAAAAAAGGAAAAGGAAGGGGGGGAAGAAG $A G G G G A A A A A G G G G G G C A A G G G G G G G A A G G G G A A A A G A A G G G$ $G G A G G A A A A G G G G G G G G A G A G G A A G G G A A A G G A G G A A C A G A G$ G G G G G G G C C G G G G G G A G G G A G C C A A G G G G A A A A A A C C T T A A G G G GAACCGAGGGAGAGGAGAGAAGGAAGAAGCAAGGGGGCAA G G G G G G G G G A A A A G G G G T T A A G G A A A A G G A A G G G G A A G GAC A $G G A A G G A A A G G A G G G A A A G G G G A G G G G G G A A C C G G G G G A G A G$ A G G C A A A G A G A G A A GAA $A \operatorname{AGGGGGAGGGGGGAGGGAAAACCAA}$ $G G A G G G G A G G G A A G G A A A A A G G G A G G G A A G G C C G G A G G G G G G$ A GAAAGGAGCCAAGAGGAGAAGAAAGGGGAATTCCAAAAAGA GAAGGCCGGGGGGGGAAGGGGAGAAAGAAGGGAGGAAGGGGG G A A A A A A G G A A GAAAAAAAGAGGCCAGAAGGGGAAAAGAAAC C G G G G A A A A G GAGCAAAAAGAGGGGAAGGGGAAAACCAAGEG AA $\operatorname{A} A A A A G G A G G G A G G G A A G G A G A A A A A G A G G A G G A G A A G G G$ A A G G A G G A A G G A A G G C A G G A A A A G G TAA A C C G G C C A A G G G G G AAAAGAAAGAGGAAGGAAGGACCGGGAGCAGAAGGAGAGGAA A G G A A A A A A G G A CA A A A G G A A A G G A A A A GAA A A A A C C T T G G G GAAGAGGCCAGAGGGAAAAGAACCCAGAGAGAAGGAAGCGGA C A A A A G G A A G A A G G G G G G G G G G A A $\mathcal{A} G G C A A G G A G A G A G G G G A$ A A A A G G A G A A A G G A A $\mathcal{A} G G G G G G G G G G G G A C C C C C C A C A C C A G$ GCCAAGACGAAAAGGGGCCGGAGACAAAGAAAAGGGGGAAGA AT T G G G GAA $A \operatorname{GA} A G G G G G G A G G G A C C C G G G A G G A A C C G G G G G$ $G C C A G A A A A A A C C G G G G G A A C A G G A A A A A A A C C A A A A G G C C G$ G G G T T A A C C G G GA G GAA $\mathcal{A} G G A A G A A G A A A G G A A A G A A G G C G C$ CAAAAGAATAAGGAGGGAAAAAGGAAAGGAAGGAACCAAAAA A A A G G A A G G A G A A A A G G G G C C A A G A C C G A GAACAAA $A$ A C G G G A A G G G G GAA A A GAAA A G GAA A A G G GAGGGAGAACAGGGAAGGG ATACAGACAAAAGAGGGAGGGAAGGGAGAAGGGGGAAAGAAA CAACCGGAGCAAGAGAAAAAAGGAGAGGGGGGGAAGAACGGG
 GAGGGGGAAAAGGGGAAAGGGGACCAAAAGGAAGAAGAAAAG G GACCAGAAAGAAGAAGAAAACCGAGAAAAAGGGGCAAAAAA

A A G G A GACCGGGGGACCGGAAACGGGGAGGCAACGGGACGAG G G G A A G G G G A G A A G A G G G G G G A A A A A C C C G G C A A A A A A G G G A GAGGGAAGAGGGGAAGGGGAAAAGGCCAGGGAAGGAGAAAAAA GAAAGAGGGGGGGGAAAGAAAAAAAAGGGACGGGGGAAAGAA AAAAAGAGGAAGGAAAGCCGGAAAAGGAAAGCCCAACAAGAG A GAACGGCCCCGGAAAAGGAGGGCAGAGAGGGAGGAGAGAAA A G GAAAACCAGGGGGAAGAGGCAGGAGCCAAGGCCAAAGGGG AAAAAGGGGAACAAAAGAGAAAAGAAAGGATAGAAAGGAGAG $G G G G G G G A G G G A A G G A A A G C A G G G G G G G G G G A A A A G A A A A A G$ G G G G G A GAAGGAAGAACAAACGGAAGGCCAAGAAAAGCAAC G GAAAAAAGGAAGAAAGGAGGACCAAGGCCAAGGGACACAGGG
 $G C C G G A A A A C C G G G G G G G G G G A A A A C C G G A A G G A A A A A A A A G$
 GAAAAAAGGGGAAAACCAAAAGGAAGGAAAAGGGGGAAAGGA A A A A A G G A A A A A A A A A A A A GGGGAAAAAAGGGGGGAAAA G GA A G GCCAACCGGAAAAAAAAGGGGGGCCAAAAGGCCAACAGGA AAACCGGAAAAAACCGGAAGGAAGGGGGGAACCAACCCCGGG GAAGGAAGGGGAAGGAAGGGGAAGGAGGGAAGAAAGGAAGAA A G G G GCCAAAAAAAAGGAAAACCGGCCAAGGAAGGAAAAAAG GAACCAACCGGAAGGAAGGGGGGGGCCCCCCCCGGGG
 GAAAAAAGGAACCAAAAGGAAAAGGGGGGCCGGAACCBAAAA A A A A A A A G GAGAGAAAAGGAGAGAACCGGAAGAGAAAAGGAA AAAAAGGGGAAAAAGGGCCAAGGAAGAGGAGAAGGGGAAAAG G GAGAAAAAAAAAGGAAGGCCCCGGGGAAGGAAAACCABAAG GAGGGGGAGCACCGAACGGGGTAAGAAGGCCAAAAAACCCCG G G G G G G G A A A A G G G A A A G G A G G A A G G G G G A A A A A A G G A G A A G G G GAGGAAGAAGAGAAAAAGGGGAAAGGGAAAAGGAAAAAAA GAAGGCCGGGGGAGGAAAAGGAGGGGGGGGGAAAAGAAGCAC CA $A \operatorname{GGG} \operatorname{GA} A G A A C C G G G A G G A C A A A A G G A A G G G G A A G G C A A A G$ GAAAAGGGAGGAGAGGGGAAGGAGGACAGAGGAGAGGCAAGA A A G G G G G G G G A GAGGGGGACCAGCCGGAAAAAAAAGGGAAAC C G G G A G G G G T T G G C C G G G G G G G G G A A A A GAAC CAA A A G A A G G GAGAGAAAAGGAGAAGGGCGGAAACGGAACAAAGGACGGCAA $A G A G A A A A A G G G G A A G G A G A A G A G G G A A G A A G G A C A A G A G A A$ G G G G G A A G G G G G A G G G G G G A A G G G G C C G A A A A A A A A A G G G A G A GGCCAAAGGGAAAAAAAAGGAAAAGGGGCAGGGGGGGAAAG A A A A A A A G GAAAACCGGAGAAAAGAGAAGACAAGGCACAGAA
 $A C A G G G G G G G G A A G G G A G G G G A A G A A A A A A A G G G C A G G A G G A$
 AACCCCCCCAAAACCAAAAAGGAAAAAGGGGGGATAGCCGAA C G GCCAAAAAAGGGGAAAGGGGGGGAAGGGAAAAGAAAGGGG G G G A G A G A A G A C A G G A G G G G G A A G A G A A A G G G G A G A G G G T T A A ACGACAAAAGACGAAGAAGGGGGGAAGGGGGGCCGGCAAAA GACGGGGAGGGAGAGAGGAGAGAGGCCAAAAAAGGAAAAGGG G GAGGAAGGGGAACCGGAAGGACGGACAAAGAAGAAAAGAAC AAGACAAAGAGAGAAGACAAAGGCCAGAGGAAGAGGAACAGA GACGAGACCGGTTGGAAGGGGGGCCCAGGGGCCCCAACAAGG GAGCGAGGAGAGGAAGGAGAACCAAGGGGAATTACGGGAGAA $A C A G A G G A G G G G G G G A A C C A A G G A C A G A G C A A A A A A G G A A A C$ ACCAAAAAAAAGGGGGGAAAGCAAAGAAAAAACGGAGGAGAA AAAAGGGAGAGGAGAAGAGGACAGAAACAGGGGGGGAAAAAG A GAGAGAAGGAGAGGAGGAAAAAAGCAAAGACCAAGGGGCCG GAGGAAAAGGAAGAGGAGAAGAGAAAGGGAGAGAGGGAAGAG A G G A A A A A GCCAAAAGGGGATAGCCAAGGGACAACCCGAAAA
 $A G A G A G G G G G G A A G G G G G G G G A G A T A A G G G G C A A G C A A G A G A$

A G GA $A C A G G A A A G A G G A G G A A G A A G G G G G G A G G G A G G A A G G A$ A G G G G A A A A G G G G A G G G A G A A A A A A A A A GAA $A \operatorname{GAAA} G A A G G G A$ $A C C G G C C G G A A A A C A C C A C G G A G A G A A C C A G G G G G A A C A A G G$ G G GA A G G G G G G GAAAAAAAAGAGGGGAGGAAGAGGAGAAAGAA AAAAGCCGGAAGGGGAAGAAAGGGGGGAACCGGCAAGGGGAA GA $A$ A $A C C G G G A A A T T G A A A G G G G A A G G G G G A A A A G A A A G B A$
 AA $A G A A G G G G G A A G G A A G G G A G G C C A A G G G A A A G G A G G A C A A$ G G GCACCGGGGAAAGACAGAACCAAGGGGAAAAAACCAAGGAA G GAAGAAGGGGAAGGCCGGACGGCCAAGGGGAGGGCCGGGGA A A A A A A A A A A GA $A \operatorname{A} G A G G G G G A A G G A G A G G G G G G G A A G G G G G$ GAGGGAGAAAACCAAAGGAGGAGAACAGGCAAAAACCGAAGG GAGGAACGACAGGGGCCGGAAACGAGAGGCCGAGGAGAGGGA GAAGGAACCGGGACCAGAGTAAAGGAAGGGGAAGGGAGAAAA AAAGGCCGGGGAACCAAAAGGAAAAGGAAAGCAAAGGAGGGG A G GAACAGAGGGGAAAGGAGGAACAGACAGGACAAAGAGAAA A G GACAAACAAGGAACAGAAAAAGAGAAAGGAACCGGGAAGG
 GAATTGGGCGGGGGGAAGAAAGGAAGGGGAAGGACAAAAAAA A A G G G G G A A A A G G A GAACC G GAGCCAAAGGGAGAAAATXAAC C GAGGAGGGAGAAGGAAGGGGCAAGACGAAGAGGAAGGAAAA A A A A A A ACCGAAAAAAAAGAACAGGGGGGGGAAAGAAGACCA A G G A G G G A C G G G G A A G G G A A C A GAGGGGGACAAAACCA G GAG G G G A A A A G A C G G G G G A A A GAGAACGCCAACCAAAGAAC G G GA GAGCCAACAGAAAAGAAGAGGAAGGAAGGCCTTCAGAAAGAA
 A G G GACAACAAGGGGGGAGAGGGGAGAGGGGGGAAGGGAAAA G G G G A A A A A A GACCCAAGGGACCGAGAAAAGGGGGAAAAGAA C G A G G G G A A A A A A G G G G G G A GAGCCAACC G GAA G GCC G G G G A A G G G GACACAGAGAAAAACGGAAGAAGGGAAAGACGAAAAAG G G G C C A G A A G G A A C C G G G G G G C C A A A G G G A A A G A G G A G G C A C A G G GAA A G G GAGGGAAGAAAAACAAAGAGAGGAAGGAAAAAG G GAGGGGAACCAAAGAGAGAAAGAGGAGAGAAGGAGGAAGAA A A A G A G A A A A GCCA A CA A G G G G G G G G A C A A G A G G G G G G A G G G GAACCGGAAGAAGGGGGGGCCGGAGAAGAAGGGGGAAGAAAA AAAGGAAGAAAGGAAAAGGAGGGCCGGAAAAAGGGAAAAGA G GAGAGAGCAGGGGGAGAAAGGAAGGAAGGGGAAGAAGGAGGA GAAAAA AAAAAGGGGCCGAGGGAGGGAGGGGGGAAAAGGGGA
 A GACAAAGGCAGGCAGGCAAAAAAAAGAAAAGGGGGAAAAAA $G G G C C G G A G A A G G G G A G A G A G G A A G G A A A G G G G A A G A A A A A G$ G A A A A A A A G A A G A A A G G A A CAGGGGCCGGAAGGAA GAAA G GA G G G GAA A A A G GAAAGAAGGCAGGAGGAGGAAAAGAAAAGAAA G G A A A A G A A A G G G G G G G G A A A G G A A GAGAGGACCAAA GAAAA A A A G G A A C C G A GAA $A$ GAA A A GGCCGGAAAGAAGGGGAGAAAAC C GAGGGACAAAAAGGAAGGGAAGGAAGAAAAGAAGAAAAAGB G G G G GAAAGAGAAGGAGAAACGGCCCAAAAAGAGGAAAGCAG GAAGGGGCAAAAAGGAAAGAGAGGGAAAAGGGAGGGAAAAAC CAAGGGGGGCCGGAAACGGGGCCAACCAAGGGGGAAAAGGGG GAAAAAAAAGGGGGGAAAAAAGGCCAGGGGGAGAAGGGGGGG A A GAAAAAAGAATGAGGGAGGAAGAGGAGGAGGAAAACAAAA $A C C G A G G A A G G G A C C G G A G C C A A A A G A G G A A A G G G A A G A A A A$ A G G G G A A A A C C A A C CAA G GAAAGACGAGGCCGGAAAAA GAA G G G G G G G G T TAGGGCCAAGGAACCGGCCACAGGAACAGGGGGA A G GA $\operatorname{A} G A A A G G A A G G A G C C G G G G A G A C G A G G A A G G A G A C G B A$ G GAAGAACCAAAGGGGAGGAACCAAAAAACCAAGGAGCAAAA A G G G A A A A GCC C G A A G G GAGGGGAGGAGGGGGGAAAAAAGAG G A A G G G G G G G G A A G G A A A A G G G G G G GAA A C C A G GACAC C G G A AAAAAAGGGGGGGAAAGAAAAAAAGGAGAGGAAAGGGGGGGA

A GAA A GAGGGGCCAGGGAGGAAAGAGGGGGGAGCCGAGAGGC CAAA $A \subset C G G G G G A G G C C G G G G C C A C G G G G G A A G G G G G G G G G G$ A G G GACCGGCCGAGGGGGGAAAAGGGGAAAAGAACACAAAAC C G G A G A G G G G G G G G G G G G G A A G G G G G G C C A A A A A A A A G G G G C AAC A GAAGGAGGGGGCCAAAGAAAAGGGAAAAAAAGGGGAGC
 GAAGGGGGGAACCAGAAGGAGAGAAACAGAAAAAGCCAAGGG G GAGAAGCAACAAAAAAACGGGAAAAAAAAGAAGGGGAGAAA C A A A G A A G G G G A A A A G G G G A A A A A A A A A A A GAAAA G GAA G G A $A C C G G G G G G A A G G G A A A A A G G A A G G A A G G A A G G G G A A C A A A G$ GAAAAAAGGGGTTAAGGAAGGAAAAAAGAGGGGGGGGGGGGA
 CAAGGAAGGAAACGGAAAAGGCCAGAAAAAAGGAAGGGAACA AAAGAAAGAAAAGCCGAGAGAAGGAAAAAAGGAACAACAAAC C GAGGGAAAGGGGAAAAGAAAGGCAGGAGGGGGAGCATAAAA CAACACAACGAAGGGAGGGAAGGCAGCAGGGGGGGCAAAGGG A GAGGAAAGAAGAGAGAGGGAAAAAGAGGGGCCGGAGACA GA A A G G G G G A GAAAACCGGAGGGAGGGAAGAAAAAGAGGCAAAG AGAAGAAAACAAAAAAAACACGAGAGAAGGGAAAGAAAGAAG GAAAAGGCAGGAAAGAAAAGGAAGGGAAACAGGCCGAAGAGT TGGAAAAGGGGGAGAAGGAAGGGGGGGGGGGAACAAA
$C \subset G G A G G A A G A A C A C A G G G G G G A G A A A A A A G G G A A C C A A A G$ GAACCCCAAAGCACCAGGACAAAGGGGAGGAAGGGGGGGGGG G G G A A G G A G A G G G A A G G A A A A G G G G A G G G A GAAAA A G G G A A T TAAA GAAAAAACAAAGCAAAGAAAAGAAGGAACAGAAAAGAG G GAAAAAGGGGGGGAAAAAAAGAAAAGCCAAAGACGAGGACC AAAAAGGGAGGAGGGAAAAAAAAGGGGGGAACCAAAAGBCAA A A A A A G GAAAAGAGGGAGAGGGAAGAAAGAAGGGAGAAAAAG
 C G G G GAA $\operatorname{G} G \mathrm{G} G \mathrm{G} G \mathrm{G} A A A A G G A A G G C C G G G G G G A A G G A A G G G G G$ G G G G G G G A A G GCCAAAGAGAGGAGGGGAGCCGGGGAAAAAAG AAAGGGGGGAAAAGAAGGCGGAAAAAAGGCCGGGGGGAGGAG A A A G G G G G G G G G G G GAGAAAC GACCAGGACAAGACGGA GCAT $A G G G G C A A G G G G G G A G G G A A C B A G G A G G G G G A G G A G A A A G B C$ CAAGGGAGGGGGAAGGAAAAGAAAAAAGGGGAAACCGAAAAA A A A G GACCCGGGGAAGGGGCCAGGAAGGGAAAGGGGAAAAAA GACAGAAACGGGGGGAAGAAAAGAGAGAGAGAAGGAGAGAGA $C \subset C A G G G G G A A G A A A C C G G C G A A C A G A A A G G G G A A A A A G A A A$ ACCGGCAGGGGAAAAAGGGAGGGACAGACGGGGAGAAGAAAA A G G G G A A G GAA $A \operatorname{GGG} \operatorname{GAA} \mathrm{~A} G A A G G C C A A A A G G A A A A A G A A C A A$ A G GACAAGGGGGGAGGAGGAGGGGGCCAAAACCGGGGGAAAC C C CAACCAACCCCAAAGAAGGAACCGGGGGGAAAAGGGACCA G GACAGGACGGCCACCCAGAAGGAGGGAAGAGAAAAAAAAAG G GAGGCAAGAGACCAAACCAAGGAAAGGGAAGGGGAAAAGAA A A C A A A A A A $\mathcal{A} G G G G A A A G G G A G G A A G G G G A G A A G A A A A A A A A$
 A A A A A A G G G G A A GCGGAGGAGGGCCTAGAGGGGCCCCAAGGA AAACAGGGACCCCGGGGAAAAAAAAGGGGGAGGAGGAAAAAG G G GAACCAAAAGAGGAGCAGAAACCGGAACCAAAGAAAGGGG A G G A A A GAGGGGGGAGGAGAAAAGGCAGGGGCACCCAAAAAA AACGAGGAACCAGAGAACAGGGAGGCCAGAGGGGGGGGACAA A G GAA A A A A A A G G G G G GAAAAGGCCGGAACCAAGGAAGAAAA GA $A$ A $\operatorname{A} G A G G G G T T A A A G A G A G G A A A G G A C G G A C G G A G G G G G G$ G G G G G GAGGCCAAGGCCAAGGTTAGGAGGAGGAAACAAAGGG GAAGGAAGGGGAAGGAACAGGGGCCAAAAACAAAAGAAGGAA A A A G G A A A A A $\mathcal{A} G G G G G G G A C C A A G G G G A A G G G G G G A A A G G A A$ AAAAAAGAAGACCGGGGGGAGAAAAGGAAGGAGGGAAAAAAA GAAGGCCGGGGCCGGGGAATAAAAAGGAAGGAGAGGGAAAAAA AAGAAAAAGAGGAAAGGGGGACCGGGAGAAGAAGGGGAGAGA

GAAGGAGAAGGCCAAAAGGGAGGAAAAGGGGAAAGGAGGGGG GAAAAAAAAGGAGAAAACCAGTTGGAACCGGGGGAGGAAAAG $A C \subset A A A A G A G G G A G A A G G C A A A A G G A A G G G G G G A A A A C C G G G$ G G GAAAAGAAAGGGGGGAAGGAAAAGGAGAGAAGGGAAAAAG GAAGGCCGGGGAAAAGGGGCAGAAGGAAAAGGGAAGACACCC C G G A G G G A A G G A A A A A C A A G G A A GAGGGGAAGGTTAAAAC C T TAAG GAAAGAAAACCCCGGGGAAGGCAGGATAAAAAACCGGA AAGAAAAGGACGGGACAACCACCAACCGGGGAGCAGAAGGAA
 $G C \subset A G A A G G G A A G G A A A G G A G C A A A A G C C G G G A A C A C A A A G G$ GACAAGGCCAAGACCAACCAGGGAACGAGAACCGAGGGGGGC CAGGGCAAGGAAGCAGGAGAAAAAAGGAAGGGGGAAGGGGGG GACAACCGGGGGGCCTTGGAGAACACGCCGACAGGAAAAAAA G G A G G A G C A A A A A G G A A G GAACCA $A$ A A A G G G G A T G G A A G G G G G G G GAACAAGAAAAGGGGAACCCCAAGGCAGGAGGGAAGGGGG GAGGAGACAGAGGAAGGAGGGAAAAGGGAGACCCCGGCAAAA A A A A A G GAA A A G GAACCAAAGGGAGGGACGGAAAAAAAACCG G GACAAC GAAGGCGACCAAGGGGAAGGGGGGAAAAGGGGGGC G G GCAGGAGGACAGACAGGAAGGACCCCAAAGGAAAAAAGGA
 A AC GAA A G G GAGGGAGGCAGGGGGAAAAGAAGAGGGGGAACC
 G G G G G A A A A A A A A G G A A G G A A A A A A G G G G G G G G G G A G A A A G G A A C A A C A G GCCGGGGGAGAGAGGAGAGAAGGAAA GAA GAA GA A G G G A A A G G G A G G G G A G A G G G A A G G C A G G T T G G G G C C G G G G A AAAGAGGGGAAGGAAAAGGAAAGAAAGGGGGCCAAGGGAGAA AAAGGAAAAAAAAGAAAGAAGGAAGAGGGAAAGGAAAAGGAA A GAAAA A G GCC GAGGCCGGAAAGAAAAAAAGGGCCGGGGGGC C CAG G GAA $A \subset A G G A A A G C A A A C A A A A A A A A A C C A A G G G G G G G$ G G G A A A G G G G G G GAA $A \operatorname{AGC} C A A C C G G G G A A A G G G G G C A A A G G A$ GACCGGGAAAAAGGGAAGAACGGGGAAGGGGAAGBACBAGGC AAACCAGGAACAAAGGAGGAAAAGCAGAAGAAGAAGAGCACA C GAA $A$ A A A A A A A A G G G G G G GAA A A A C C G A A A A G C CA GAA G G G $G G A A G A C A A G G A G G G G A G G G A G G G G G G A G A A G G G A A G G A A A A$ $A G G G A G G A G A A G G G G A G A G G A G G G G C A G G A A A A A G G G A A G G G$ $G G A C C G G G G A A A A G G A C G A G G C A A G C A G A A G G G G G C C G G G G G$ G GAGGAGGAAACCGACCAAGAGAAGGGCAAGGGGAAATXCCA GAGAGGGAAGGGGGAAGAAGGCAGAGGAAGGGAAAGAAACCA C G G A G A A G G A G G G A A A A A G G G A A G GAGAGCCCCGGAAAC G GA GACGGCCGGCCGAGACCGGAGGGAAAAGGCCAAGGGAAAGAA AAAAGGGACAGGGGGAAAACCGGAAGGCCGGAAAAGAAGCAA A G A A A A A A GA G G G A A G G C A G G A A G G A G G A G G G A G G G G A A G G A A G G GAGGGGCCAAAACCGGAAAAGAAAAACAAAGGGGGGGGA A G G G G A A G A C G G G A C G G G G A A G G G G G G G G G G A G C C G G G G A A C A G G A A C A G A A A A A G G C G G G G GAGAAAAAGACAGGAGAAACAA C G G C C G G G G G G G G C C A G A A A A G G G G G G G G G A G G G A A G A G G G A G G G G G G G G G G G A A G G A A A A G G G A A G G G A C A A G A G A T A G A G G A GAGAAAGAGAGGGGGGGAAAAAAAAGGAAAAAGAAAAAAAAG
 G G G A A C C G G A A G GCCCAGAGGGGACGGACGGGGGGAAAA G G C C G G G G A A G GAACC G G G GAAGGAAAAAAGACAAGAAAAGAAAA AAAGAGGAAGAAGAGGAAACCAAAAGGGGGACACCAAACAAA A GAGAAGAGGAAGGAGGAGCCAAAGGGGGAAAAAAGACAAGB G GAAAACAGAGAGCCATGGAATTCCAAAAGGGGAACGCAAGA
 AAAAGGGAAGAGGAGGGGAAGCGGACACCGAAGGGAAAGAGA G G G G G G G G A A A G GAAAAC A CACA G GAAAGGGGAGAGGAAAAAA A G G A G G G A G G G C C C C A G A A A G G G A A GA GA G GAA A G C C G A G G A $C \subset C C A C C A A G G C A A G G A A G C C C C A G A A G A G A G A G A C G G A A A G$

G G G G GAAA A AACCGGCCCCAAGGGGGAAAAAGGGAAAGGGGG G G A G G A A G A G G G A T T G GACGAAAAGCAAGAAAAAAGGAGCCG GAAGGAAAAGGGGAAGGCCCCGACCAGGAGGGGAGGAAAACC C G G T T A TAGAAGAGGAGAAAGGCAGGAGGGGCCAAACGAAAA ACCGGGAGACCGAGGAGAAGGGAAAAACCGGAACCCAAAAAA AAACGAGAAAGGGGGAAAGAGGGAAGAAGGGCACCGAAAAAA A A A G G A A A A G G C A GAAAGGGGAAGGGGGGAGGACCGGAAAAG GAGAGAAAACCGAGGGGACCCTAGAGGGGGACAAAAGAAAAG G G G G G G A G A A G TA $A \operatorname{GA} A \mathrm{G} A A A G A A G A A A G G G A G G A A G A A A A G G$ AAGAGGGAGGGGGCCAAAGAAGGGGGGTTGGGAAACCGGAGG
 G G A A A GAA $A \operatorname{GG} \operatorname{A} A \subset C G G A G A G A A C A A G G A G G G A G G G A A A A A G$ GAGGGGGGGGGAAAAAAGGAAAAACAAAAGGAAGGGAAAAAG G GAACAACCGAAAGAGGAGAAGGGGGGAAGAAACCGGGGAAA
 A G GCCAGAAGGAAGGGAAGATAACCGGGGAAGAGGACAGGAA
 A G G G G A A A A A A G G A A A A A A G G G G G CAA A A A GAAAAAAAAAA A GAGAAGGAGAGAAGAGGGGGGAACAAGAGGGAAGGAAGAGAG G G G G G A A G G A A A A G A G G A A A GAGGGAGGGGAGGAAAACACCA AGAACAGAAAGCCCCGGAAGAAACCAAGGAAAAAAGG
G G G GCCAAAAGGGGAAGGGGACAAAACAGACCAGCACAGGA C G G A A G GCCAAACGGGGAAGGCCGGAAGAGGAAAGGAAAGGC C C C G G A G G G G G A A G G A A G G G G A A A G A A A A G A A G G G A G G A G G A A A A G G G GAAA $A \operatorname{A} A \mathrm{~A}$ GAAGATGAAAGGGGACGGGGGGAAAAGGG AGGCCGGAGGAAACCGAGAAGAGGAAAAACGGAGAAAAGTTG G G G GAGGGGACAGAACAAAAAAAGGCCAACAGAGGGGGGGGG A A G G G A A C A A A A A G A A G G G A A A A G GAGGAGGGGACAGGACA G GAAGGGGGAAAAAAGGGAAAGATGGAGGGGGGGAAAAGACAC A G G A A GAAAGGGGCAAAGGGAGGAGAAGGGGGAAAAAAAAAA G G G A A G A A G C A A G G G G G G G A A G G A A A A C A A A A A C C A A G G G G A AGAAAGCGGAAGGGGAAAAAGAAGGGGCCAAGGGGGAAAAAA A A A A A G GAAAA $A \operatorname{A} A A A G A A A A G C C G G A A G G A A A A G G G G A C A A A$ A G G A A A G A GA G GAA $A \operatorname{G} G \mathrm{G} C \subset A C G A G G A A G G C C A A A C G G C C G G G$ G G A A A A G G A C C A A G G G G G G G G T T G G G G A A G GCCAAAACAAA $\mathcal{C}$ G G G A GAG G A G A A A A A CA A A A G G G GAGGGAAGGGGAAACA A A A A G GCA A GAAAGGGAGAGAAGAAAAGAACAAAAAGAGCGGGGG $G A C C C A G G G A G G G C C G G G G G A A G G A A G G G A A A G G A A A A A A A G$

 GAAAAAGAGAGGAGAGGGGAAAAAAGCAGAAAAAGAGGGGAA A G G A G A A A A A A A A G GAA A CAA G GAAAAAAGGGGGGGAAA G GA A G GAA A A G G G G A A G GAATTGAAAAAAAGAAGGGACAGCAGA G A A A A A A A A GAGGGAAAAGGAAAAGGACAAAGAAGAGGACGCG G GAAACCGGGGACAAGAGGAAGCCCAAAACCGGCCACGGGGG G G G GAGGCCAAAAAAAAGGAAAAGGAAGGGGGGAGGGGAAGC CAAGGGGCCCCAACCGGAAAAGGAAAAGGCCGGGGAGGAAA G GACGGGGGAAAGGAAGAGGCCGGAAGAACAAAGGGAGGAAGA $A C C C A G G A A A C C C A A A C G G G A A A A A A G G G G G G A G G G G A A G G G$ G G G A A A A A A G G G G G GAAAAACAAAAAAACCGGAAAAGGGAAAG GAAAAAAAAAAAAAAAAAAGGGGGGGGAAAAGGGGGGGAAAA A G G G G G G C C G G G G G GAA A G G G A A A A G G G G G GA G G GA GAAC C C GAGGAAGGAGGGGAACCGGGGGGAGGGAAAACCCAGGAAAAA AAGAAAGGGGGGGAAGGGAAAGAAGGGGGAAAGAGAGAAAAT TAAAGCCAGAAAGAGGGAAGAAAAGCCGGAGCCAAGGGAGGG A A G G G G G G A G A G G A A G A A G A GAA A A G GAA G GAAA A A A A A A A G A GAACACGAAAAAAGAAAAAAACAAAGCCGAGATAAAAAAA A A A A A A G G GAAAAAAAACA GGAACAAGAAGGGGAA GGGBCAB G G GACAGGGCCCAGAAAAAAGGGAACCGGAAAGAAGGCAGAA

G G GAGGGGGAGAAGCGAAAAAGGCCGGGGGAGGAAAGGAAAA
 AAAAAGGGAAAAAGGAAGGCCCCGAGGGAGGAGAAGGGGAGC CAACCGGCCGGAGGGGAAACCGGCCGGGGGGAGAGAAGGAGG G G G G GCCAGAGGGGGAAAGGGCAGGGGAAAAAA G GAAAAGGGG G G G A G G G A A C C G A A A G G A A G G G G A G G G C C G A G G G G G G G G G G G GAAAAAGCAAAGGAAGGGGCCAAAGGAGGGAAGAAAAAAAAG AGGGGAAAAACACGAAAAAGGGGAACCGAAAAGGGAAAGAAA AAAAGGAGGGACCAAGACCAAACGGGAGAAGAGAGGGAGGGT TAAAGAAAAAGAAGGGGGGGGGGAGAAAGAATTGAAAGAAAA
 $A G A G G A C G A A A A G A A G G A A A A G G G G G G C A G A G G C C A G G A B A A$ $A G G C C G A G G A G G G A A G G A G A A G G G G A C G G G G A C G A G A A A G G G$ $A G G A A G A A C G A A G G G G G C C G G A G A G A A A A A A G G$

