

1	Hapmap43437-BTA-101873	0	135098	
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1	ARS-BFGL-NGS-98142	0	471078	
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1	ARS-BFGL-NGS-51647	0	654413	
1	ARS-BFGL-BAC-32770	0	845494	
1	ARS-BFGL-NGS-65067	0	883895	
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1	ARS-BFGL-NGS-3964	0	974586	
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1	BTA-49284-no-rs	0	1209308	
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1	ARS-BFGL-BAC-14857	0	1336351	
1	Hapmap53766-ss46526150	0	1359951	
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1	ARS-BFGL-NGS-87636	0	1603944	
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1	ARS-BFGL-BAC-13059	0	1760113	
1	ARS-BFGL-BAC-14930	0	1782724	
1	ARS-BFGL-NGS-11433	0	1851399	
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1	ARS-BFGL-NGS-76349	0	1921756	
1	ARS-BFGL-BAC-7317	0	1983902	
1	ARS-BFGL-NGS-29653	0	2049400	
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1	ARS-BFGL-NGS-85297	0	2211567	
1	ARS-BFGL-NGS-16727	0.01925874	2291153	
1	ARS-BFGL-NGS-115671	0.08714342	2313042	
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1	ARS-BFGL-NGS-21352	0.4034023	2415018	
1	ARS-BFGL-NGS-103391	0.5500293	2462297	
1	ARS-BFGL-NGS-22858	0.7437091	2524748	
1	ARS-BFGL-NGS-17308	0.8250999	2550992	
1	ARS-BFGL-NGS-89044	1.117411	2645246	
1	ARS-BFGL-NGS-79093	1.215542	2676888	
1	ARS-BFGL-NGS-58892	1.331075	2714141	
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1	ARS-BFGL-NGS-101618	1.935471	2909025	
1	BTB-00001299	2.040673	2942947	
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1	ARS-BFGL-NGS-16784	2.251565	3010948	
1	BTB-02081949	2.463676	3079342	
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1	Hapmap57114-rs29012843	2.989609	3248926		
1	ARS-USMARC-Parent-DQ381153-rs29012842	2.990015	3249057		
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1	ARS-BFGL-NGS-107481	3.281544	3343059		
1	ARS-BFGL-NGS-108686	3.387709	3377291		
1	BTA-31687-no-rs	3.472312	3404571		
1	ARS-BFGL-NGS-36096	3.562374	3433611		
1	BTA-32603-no-rs	3.642757	3459530		
1	ARS-BFGL-NGS-109014	3.755359	3495838		
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1	Hapmap42514-BTA-33574	4.348553	3687110		
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1	BTB-00003073	4.926234	3873380		
1	BTB-00002966	5.051409	3913742		
1	BTA-34568-no-rs	5.409247	4029125		
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1	BTA-33606-no-rs	5.5574	4076896		
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1	BTB-01991572	6.219554	4290404		
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1	BTB-01160486	6.91615	4648383		
1	Hapmap60540-rs29021339	7.156261	4727118		
1	BTB-01160333	7.238045	4755056		
1	Hapmap60652-rs29022048	7.323422	4784221		
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1	BTB-01159977	7.831306	4957717		
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1	Hapmap44178-BTA-101248	7.987209	5010974		
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1	BTB-01728863	8.365361	5179453		
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1	BTA-123503-no-rs	8.730903	5351369		
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1	BTB-00003770	8.830206	5398072		
1	BTB-00003715	8.894299	5428215		
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1	BTA-120711-no-rs	9.134743	5541297		
1	BTA-36594-no-rs	9.191803	5568133		
1	BTA-35637-no-rs	9.281536	5610335		
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1	BTA-35598-no-rs	9.498134	5712202		
1	Hapmap58931-rs29010773	9.561101	5741816		
1	BTA-15152-rs29026517	9.635857	5776974		
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1	BTB-01489336	10.10473	5997487
1	ARS-BFGL-NGS-115389	10.25679	6024691
1	BTB-01489466	10.59715	6082018
1	Hapmap56173-ss46526166	11.02831	6154638
1	Hapmap51901-BTA-42438	11.22374	6187555
1	BTA-43315-no-rs	11.43509	6254730
1	ARS-BFGL-NGS-109057	11.51575	6307443
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1	Hapmap34831-BES10_Contig712_1090	11.7069	6432366
1	UA-IFASA-8265	11.79884	6492449
1	BTA-44295-no-rs	11.85133	6526757
1	BTA-45181-no-rs	11.99909	6623322
1	BTA-45221-no-rs	12	6674252
1	Hapmap39203-BTA-46163	12.02341	6821798
1	ARS-BFGL-NGS-96381	12.03529	6846585
1	BTA-46228-no-rs	12.0523	6882069
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1	ARS-BFGL-NGS-38621	12.86326	7212793
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1	Hapmap48967-BTA-97940	13.42222	7483936
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1	Hapmap48369-BTA-50306	13.61758	7627111
1	BTA-50285-no-rs	13.63828	7669386
1	Hapmap41255-BTA-40460	13.65623	7706031
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1	Hapmap42827-BTA-116887	13.96171	8148041
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1	BTA-94232-no-rs	14.2634	8377141
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1	BTA-120428-no-rs	14.4511	8519686
1	Hapmap49483-BTA-120432	14.59355	8627862
1	Hapmap59566-rs29024165	14.86934	8837296
1	BTA-120430-no-rs	14.94622	8895681
1	Hapmap58026-ss46526282	15.0354	8963404
1	Hapmap52559-rs29015773	15.08104	8998063
1	ARS-BFGL-NGS-118398	15.10915	9019409
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1	ARS-BFGL-NGS-14644	15.23384	9114098
1	Hapmap39995-BTA-39516	15.51004	9323844
1	Hapmap50953-BTA-39491	15.79369	9375752
1	BTA-38496-no-rs	15.97295	9404794
1	ARS-BFGL-NGS-41048	16.46287	9484167
1	ARS-BFGL-NGS-113570	16.62625	9601018
1	Hapmap54975-rs29019203	16.63251	9636803
1	Hapmap49138-BTA-37549	16.65546	9768177

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1	ARS-BFGL-NGS-548	16.67851	9900095
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1	ARS-BFGL-NGS-1296	16.68599	9942902
1	Hapmap38887-BTA-22281	16.69289	9982398
1	Hapmap57724-rs29022825	16.7059	10056851
1	Hapmap44892-BTA-50337	16.71392	10102749
1	BTA-50328-no-rs	16.7179	10125531
1	ARS-BFGL-NGS-108684	16.7221	10149581
1	Hapmap25334-BTA-160518	16.74389	10274301
1	ARS-BFGL-NGS-113551	16.76055	10369662
1	Hapmap51416-BTA-19350	16.7687	10416295
1	ARS-BFGL-NGS-113751	16.77781	10468415
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1	Hapmap60823-rs29019235	17.42455	10717144
1	ARS-BFGL-NGS-36767	17.63585	10776728
1	Hapmap40304-BTA-17131	17.8894	10848225
1	ARS-BFGL-NGS-84168	18.16451	10925802
1	Hapmap38737-BTA-22640	18.51025	11023298
1	Hapmap54322-rs29009637	18.98796	11158004
1	Hapmap43814-BTA-22629	19.21451	11221889
1	Hapmap55642-rs29027263	19.77372	11379578
1	BTA-29334-no-rs	19.84708	11400265
1	Hapmap50731-BTA-55344	20.41142	11603310
1	BTA-55326-no-rs	20.49862	11635104
1	ARS-BFGL-NGS-115663	20.79617	11743590
1	ARS-BFGL-BAC-13575	20.86063	11767093
1	BTA-54331-no-rs	21.00298	11818998
1	Hapmap55464-rs29015665	21.11082	11865992
1	BTA-54318-no-rs	21.15027	11887794
1	BTB-00005611	21.30793	12196038
1	ARS-BFGL-NGS-28701	21.30891	12223821
1	ARS-BFGL-BAC-14244	21.43246	12342374
1	Hapmap60346-rs29019231	21.4854	12380238
1	Hapmap38791-BTA-89194	21.77495	12587339
1	ARS-BFGL-BAC-11044	22.07982	12805406
1	ARS-BFGL-BAC-11034	22.12804	12839893
1	Hapmap41477-BTA-20618	22.19725	12889396
1	ARS-BFGL-BAC-685	22.34739	12996787
1	BTA-93452-no-rs	22.37982	13019983
1	Hapmap24222-BTA-88936	22.47692	13089432
1	ARS-BFGL-BAC-673	22.66037	13220647
1	ARS-BFGL-NGS-21333	22.77782	13304658
1	BTA-89311-no-rs	22.87852	13376687
1	Hapmap38049-BTA-104527	22.99874	13462673
1	BTA-103292-no-rs	24.24159	13979316
1	ARS-BFGL-NGS-26402	24.32689	14025660
1	Hapmap24335-BTA-127763	24.39757	14064065
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1	ARS-BFGL-NGS-104754	24.75999	14260986
1	Hapmap52363-rs29013338	25.09175	14417802
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1	BTB-00502293	25.49365	14587033
1	BTB-00502247	25.58692	14626307
1	BTB-00502081	25.69003	14669727
1	BTA-97382-no-rs	25.78131	14708162

1	Hapmap51685-BTA-113867	26.18184	14876816
1	Hapmap50227-BTA-113868	26.27453	14909272
1	BTB-01224765	26.5028	14961941
1	ARS-BFGL-NGS-78179	26.86525	15048776
1	ARS-BFGL-NGS-102441	26.94507	15071831
1	ARS-BFGL-BAC-13008	27.01275	15091381
1	BTB-01225182	27.07622	15109714
1	BTA-113886-no-rs	27.12125	15122719
1	BTA-113888-no-rs	27.21316	15149266
1	Hapmap58809-rs29017514	27.89148	15528039
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1	BTB-00569345	28.10199	15646164
1	ARS-BFGL-NGS-95377	28.15782	15677492
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1	Hapmap41782-BTA-16216	28.47066	15853040
1	BTB-01999110	28.54195	15893046
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1	BTA-110801-no-rs	28.90048	16094228
1	BTB-01650452	28.946	16119771
1	Hapmap50624-BTA-22932	28.99105	16145053
1	BTB-01919348	29.08184	16196001
1	BTB-01084253	29.16953	16245203
1	BTB-01084177	29.22712	16277524
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1	Hapmap51162-BTA-118728	29.58276	16477085
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1	Hapmap39625-BTA-118605	30.05993	16744848
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1	BTB-00757888	30.37792	16923285
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1	Hapmap55434-rs29009793	30.5523	17021138
1	ARS-BFGL-BAC-11101	30.60421	17050262
1	Hapmap44195-BTA-112008	30.73672	17124625
1	Hapmap54349-rs29011587	30.80076	17160556
1	Hapmap48613-BTA-112066	31.04327	17296638
1	BTA-20344-no-rs	31.1041	17330771
1	ARS-BFGL-NGS-112632	31.27242	17425222
1	BTB-00005987	31.31468	17448939
1	Hapmap44269-BTA-67047	31.41454	17504974
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1	ARS-BFGL-NGS-26632	31.92361	17790637
1	BTB-00006408	32.06297	17868835
1	Hapmap28603-BTA-123758	32.17284	17930486
1	ARS-BFGL-NGS-99611	32.32924	18002981
1	BTB-01511592	32.3862	18028700
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1	BTB-01511764	32.61447	18131757
1	BTB-01931918	32.70077	18170722
1	Hapmap60697-rs29009870	32.74111	18188932
1	Hapmap50395-BTA-57301	32.8361	18231821
1	Hapmap33466-BTA-107178	32.95494	18285474
1	Hapmap33221-BTA-149880	33.20726	18353847

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1	BTA-26174-no-rs	34.80495	18724083
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1	ARS-BFGL-BAC-6686	35.27009	18831871
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1	ARS-BFGL-NGS-7429	36.04647	18946871
1	BTA-39405-no-rs	36.38401	18980052
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1	ARS-BFGL-NGS-29732	37.31367	19182174
1	BTA-109550-no-rs	37.35851	19321965
1	Hapmap38278-BTA-104803	37.39355	19431193
1	BTA-119061-no-rs	37.44531	19592552
1	BTA-39399-no-rs	37.46108	19641727
1	UA-IFASA-3994	37.46948	19667901
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1	ARS-BFGL-BAC-11750	37.48	19778380
1	Hapmap51222-BTA-39456	37.48	19805218
1	ARS-BFGL-NGS-34218	37.48	19829143
1	Hapmap51978-BTA-39455	37.53777	19854736
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1	Hapmap28298-BTA-123775	38.65799	20342544
1	Hapmap28872-BTA-162555	38.83382	20419112
1	Hapmap52794-rs29023743	39.02875	20503996
1	Hapmap54489-rs29018413	39.12523	20594409
1	Hapmap60044-rs29010295	39.16536	20634675
1	Hapmap26189-BTA-157760	39.20671	20676181
1	ARS-BFGL-NGS-68915	39.22755	20697089
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1	UA-IFASA-9700	39.33855	20808469
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1	ARS-BFGL-NGS-41203	39.48649	20956918
1	Hapmap49929-BTA-24619	39.56254	21033225
1	ARS-BFGL-NGS-100534	39.67485	21145921
1	Hapmap53902-rs29027390	39.75315	21224496
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1	BTB-01210202	39.85862	21330326
1	BTB-01210232	39.95701	21429051
1	BTB-01116126	40.11095	21574286
1	BTB-01116136	40.13972	21600761
1	Hapmap42716-BTA-88423	40.1707	21629263
1	BTB-01116164	40.2016	21656798
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1	BTB-01897472	40.36069	21714209
1	BTA-07140-rs29026807	40.52103	21772072
1	ARS-BFGL-NGS-51361	40.66631	21864313
1	ARS-BFGL-BAC-15637	40.69918	21925903
1	UA-IFASA-9053	40.7202	21965277
1	Hapmap26157-BTA-148092	40.73447	21992025
1	ARS-BFGL-NGS-117957	40.75656	22031001
1	BTB-00010729	40.7816	22074275
1	BTA-59229-no-rs	40.80282	22110938

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1	BTA-120720-no-rs	40.97444	22407486
1	BTB-00011076	41.03379	22510052
1	BTB-01668820	41.0806	22590942
1	BTB-02025707	41.10375	22630942
1	BTB-01437861	41.12217	22662759
1	BTB-01548042	41.1553	22720015
1	BTB-01438016	41.48601	22823600
1	ARS-BFGL-NGS-46591	41.64821	22863734
1	BTB-01562871	41.74971	22888847
1	ARS-BFGL-NGS-97225	42.14127	22985729
1	ARS-BFGL-NGS-29682	42.77	23170625
1	BTB-01153392	42.77	23217832
1	BTB-01153206	42.77	23255987
1	BTB-01153241	42.77	23307655
1	Hapmap32844-BTA-151959	42.78929	23374361
1	BTB-01821892	42.80346	23421942
1	BTB-01885509	42.81052	23445630
1	ARS-BFGL-BAC-16283	42.82351	23489264
1	BTB-00008466	42.82987	23510619
1	Hapmap60828-rs29019992	42.85988	23611389
1	ARS-BFGL-NGS-110541	42.8711	23649052
1	ARS-BFGL-BAC-6737	42.88052	23680672
1	BTA-49255-no-rs	42.89	23713018
1	BTA-49259-no-rs	42.89	23734326
1	BTA-49269-no-rs	42.96217	23794188
1	Hapmap39273-BTA-49264	43.02806	23847228
1	BTB-01976950	43.05624	23869907
1	BTB-00007697	43.11931	23920676
1	BTB-00007705	43.14194	23938895
1	ARS-BFGL-NGS-103546	43.18485	23973432
1	UA-IFASA-5116	43.21915	24001042
1	BTB-00007882	43.28959	24057738
1	Hapmap52764-rs29022780	43.39603	24143414
1	BTA-39462-no-rs	43.42483	24166595
1	BTB-00008090	43.4616	24196197
1	BTA-49236-no-rs	43.53537	24255576
1	BTB-00008277	43.5633	24278057
1	Hapmap52220-rs29016259	43.5933	24302207
1	BTA-15153-rs29026518	43.66558	24360390
1	Hapmap54584-rs29014870	43.75314	24430863
1	BTB-00014074	43.84325	24503396
1	ARS-BFGL-BAC-11218	43.90084	24549757
1	BTB-00010532	44.07762	24692046
1	ARS-BFGL-BAC-14984	44.13102	24735033
1	BTB-00010474	44.15953	24757983
1	ARS-BFGL-NGS-85045	44.18663	24779790
1	Hapmap39274-BTA-49324	44.21468	24802375
1	ARS-BFGL-NGS-115371	44.25587	24835526
1	BTB-00010021	44.312	24880710
1	BTA-49319-no-rs	44.36098	24920136
1	BTA-49313-no-rs	44.39832	24950186
1	Hapmap53715-rs29017639	44.43811	24982221
1	BTB-00009762	44.47362	25010799
1	ARS-BFGL-NGS-82685	44.50048	25049866
1	BTA-49289-no-rs	44.54296	25154731
1	ARS-BFGL-NGS-103498	44.57942	25244741

1	Hapmap50707-BTA-49285	44.59041	25271869
1	ARS-BFGL-BAC-13086	44.59753	25289457
1	ARS-BFGL-NGS-34568	44.6106	25321721
1	BTA-49283-no-rs	44.65301	25426409
1	ARS-BFGL-BAC-16299	44.67114	25471181
1	ARS-BFGL-NGS-16145	44.68403	25502991
1	BTB-00009271	44.71363	25576064
1	BTB-00009232	44.72654	25607948
1	ARS-BFGL-NGS-20807	44.74249	25647321
1	BTB-00009156	44.75783	25685179
1	Hapmap26753-BTA-158146	44.80028	25789986
1	ARS-BFGL-NGS-20230	44.8708	25964080
1	ARS-BFGL-NGS-36242	44.9154	26038159
1	ARS-BFGL-NGS-50954	44.93969	26063684
1	BTB-01484696	45.02225	26150433
1	ARS-BFGL-BAC-13724	45.09164	26223335
1	Hapmap52417-rs29016891	45.12598	26259422
1	Hapmap50927-BTA-28806	45.17214	26307924
1	Hapmap59621-rs29013246	45.25346	26393362
1	ARS-BFGL-NGS-11151	45.28402	26425477
1	Hapmap50928-BTA-28811	45.31043	26453228
1	ARS-BFGL-BAC-13744	45.4925	26644526
1	BTB-01265899	45.52132	26674804
1	ARS-BFGL-BAC-5834	45.55515	26710358
1	Hapmap51561-BTA-120459	45.62357	26782245
1	BTB-01265720	45.66123	26821811
1	BTB-01265513	45.73253	26873390
1	BTB-01533869	45.82647	26920553
1	Hapmap33501-BTA-152681	45.91863	26966818
1	BTA-108804-no-rs	46.05343	27034490
1	Hapmap29626-BTA-155192	46.10023	27057982
1	Hapmap52574-rs29013556	46.18657	27101326
1	Hapmap42876-BTA-23541	46.27554	27145992
1	ARS-BFGL-NGS-115015	46.32556	27181523
1	BTB-00011225	46.35411	27249385
1	BTB-00011494	46.38582	27324745
1	ARS-BFGL-NGS-46004	46.39961	27357510
1	BTA-59258-no-rs	46.43208	27434665
1	Hapmap50048-BTA-59263	46.44498	27465349
1	Hapmap51266-BTA-59273	46.48232	27554075
1	BTB-01285382	46.58032	27786985
1	BTB-01285492	46.5957	27816806
1	BTB-01285832	46.73191	27980058
1	ARS-BFGL-NGS-111117	46.75867	28012133
1	BTB-01285855	46.77736	28034525
1	Hapmap59457-rs29010971	46.81056	28074319
1	BTB-01285931	46.84157	28111487
1	BTB-01334157	46.8838	28162105
1	BTB-01334086	46.90589	28188573
1	BTB-01334105	46.92898	28216247
1	ARS-BFGL-BAC-15050	46.95099	28242625
1	BTB-01333903	47.05117	28362687
1	BTB-01333940	47.09328	28413168
1	BTB-01333973	47.13406	28462034
1	BTB-00012150	47.22662	28572974
1	BTB-00012128	47.24865	28599381
1	ARS-BFGL-BAC-14387	47.26832	28622946
1	BTB-00011988	47.28937	28648176
1	ARS-BFGL-NGS-20624	47.31235	28675718



1	BTB-00011831	47.39058	28769473		
1	BTB-00012396	47.40843	28790870		
1	ARS-BFGL-BAC-15059	47.47309	28868362		
1	ARS-BFGL-NGS-119690	47.50488	28906462		
1	ARS-BFGL-BAC-15061	47.53331	28940539		
1	BTA-59279-no-rs	47.55421	28965587		
1	BTB-00012425	47.56475	28978223		
1	BTB-00012448	47.58707	29004968		
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1	BTB-01734642	47.64464	29073969		
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1	ARS-BFGL-NGS-100058	47.69191	29130628		
1	ARS-BFGL-NGS-74692	47.70951	29151717		
1	BTB-00012560	47.7458	29195211		
1	Hapmap40010-BTA-59286	47.78567	29242993		
1	BTB-00012627	47.81129	29273705		
1	ARS-BFGL-BAC-11193	47.83619	29303546		
1	ARS-BFGL-NGS-101348	47.96193	29454246		
1	ARS-BFGL-NGS-114084	48.00612	29507209		
1	ARS-USMARC-Parent-DQ451555-rs	29010795	48.02068	29524658	
1	BTB-00013095	48.10437	29624956		
1	ARS-BFGL-NGS-40513	48.12971	29655324		
1	BTB-02049040	48.16365	29696010		
1	ARS-BFGL-BAC-7359	48.21971	29763188		
1	BTA-59299-no-rs	48.25685	29807709		
1	BTA-59305-no-rs	48.32496	29889334		
1	BTB-00013460	48.34872	29917811		
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1	BTB-01370718	48.78635	30156822		
1	BTB-01884758	48.82425	30185657		
1	BTB-01490065	48.87937	30224415		
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1	BTB-01490270	49.17126	30414871		
1	BTB-01739066	49.24854	30465288		
1	BTA-18114-no-rs	49.33276	30543596		
1	ARS-BFGL-NGS-40158	49.35556	30570926		
1	ARS-BFGL-BAC-11830	49.38519	30606444		
1	BTB-01303393	49.45119	30655372		
1	BTB-01303334	49.65249	30701874		
1	BTA-87372-no-rs	49.7484	30724028		
1	BTA-41946-no-rs	49.8355	30744150		
1	Hapmap50687-BTA-41950	50.36248	30865885		
1	BTB-00013894	50.88897	30987508		
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1	BTB-00013847	51.10961	31038475		
1	BTA-110980-no-rs	51.69311	31173269		
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1	BTB-01653794	51.74	31239593		
1	BTB-01335754	51.7415	31269020		
1	BTB-01335860	51.74825	31325294		
1	BTB-01843131	51.7883	31659179		
1	ARS-BFGL-NGS-80747	51.79329	31700738		
1	BTB-01955576	51.80709	31815750		
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1	BTB-01755357	51.85108	31870106		
1	BTB-02018681	51.92384	31923335		
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1	BTB-00014413	52.17498	32138151	
1	BTB-00014527	52.25438	32251123	
1	Hapmap38175-BTA-69177	52.2952	32309198	
1	Hapmap52004-BTA-69178	52.31717	32340451	
1	BTB-00014686	52.36731	32411801	
1	BTB-00014722	52.39415	32449976	
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1	BTB-00014850	52.43631	32509969	
1	BTB-00014929	52.47022	32558213	
1	BTB-00015102	52.49872	32598751	
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1	BTB-00015164	52.57023	32700496	
1	Hapmap58994-rs29021251	52.59722	32738897	
1	Hapmap40138-BTA-69192	52.62724	32781614	
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1	BTB-00016647	52.71409	32905173	
1	BTA-69212-no-rs	52.754	32961952	
1	BTB-00015939	52.80612	33036107	
1	BTB-00015961	52.82909	33068789	
1	BTB-00016058	52.8499	33098389	
1	Hapmap48855-BTA-69221	52.86924	33125906	
1	BTA-69226-no-rs	52.90455	33176151	
1	BTB-00901823	52.98045	33284142	
1	BTB-00901868	52.99513	33305018	
1	BTB-00901957	53.02184	33343019	
1	BTB-00902072	53.04515	33376191	
1	BTB-00902144	53.06733	33407744	
1	ARS-BFGL-NGS-45064	53.12326	33487311	
1	ARS-BFGL-NGS-21650	53.13902	33509735	
1	Hapmap43403-BTA-91448	53.15707	33535419	
1	BTB-01419032	53.17521	33561227	
1	BTA-91456-no-rs	53.19804	33593708	
1	Hapmap34824-BES10_Contig592_452	53.23169	33641578	
1	BTB-01419286	53.25437	33673851	
1	BTA-60805-no-rs	53.3098	33752708	
1	BTB-00929993	53.37128	33806073	
1	ARS-BFGL-BAC-11852	53.60464	33883601	
1	Hapmap55373-rs29027574	53.75583	33933829	
1	BTB-00930093	53.86748	33970922	
1	BTB-00930215	53.94202	33995685	
1	BTB-00930351	54.05661	34033754	
1	Hapmap49364-BTA-89353	54.18414	34076119	
1	BTB-01965833	54.53915	34179096	
1	BTB-01965810	54.63022	34202504	
1	Hapmap43629-BTA-60810	54.77981	34240957	
1	BTB-01211075	55.02813	34304788	
1	Hapmap47907-BTA-29493	55.15683	34337867	
1	Hapmap43823-BTA-27227	55.25363	34362750	
1	BTB-01890914	55.34412	34386012	
1	UA-IFASA-4161	55.42924	34407892	
1	BTB-01210899	55.5425	34450639	
1	ARS-BFGL-BAC-12481	55.57336	34492226	
1	BTB-00017000	55.59072	34515637	
1	BTA-79188-no-rs	55.62587	34562999	
1	BTA-111131-no-rs	55.64214	34584932	
1	BTB-01210806	55.67938	34635120	

1	BTA-111133-no-rs	55.75286	34734151
1	ARS-BFGL-NGS-100434	55.84958	34864497
1	BTB-00016718	55.87	34903570
1	BTB-00016701	55.87	34934516
1	ARS-BFGL-NGS-28489	55.87	34970709
1	DPI-55	55.94582	35014129
1	Hapmap32018-BTA-123851	56.08	35157504
1	BTB-00016898	56.11392	35314693
1	BTB-00016906	56.13066	35367693
1	ARS-BFGL-NGS-60721	56.14289	35406392
1	DPI-2	56.20538	35604177
1	BTA-79199-no-rs	56.21395	35631308
1	ARS-BFGL-BAC-837	56.23337	35692760
1	BTB-00017157	56.27121	35812530
1	Hapmap40144-BTA-79228	56.29654	35892692
1	ARS-BFGL-NGS-116830	56.30631	35923613
1	Hapmap41641-BTA-79222	56.31549	35952652
1	BTB-00017988	56.36935	35993477
1	ARS-BFGL-NGS-110234	56.44954	36036600
1	ARS-BFGL-BAC-4996	56.49202	36059447
1	Hapmap57330-rs29009759	56.54259	36086641
1	BTA-79216-no-rs	56.60442	36119886
1	BTB-00017697	56.71944	36181744
1	ARS-BFGL-BAC-11284	56.77071	36209316
1	ARS-BFGL-NGS-116207	56.82723	36239709
1	Hapmap50474-BTA-79209	56.87814	36267086
1	BTB-00017422	56.92818	36293997
1	Hapmap43356-BTA-79201	57.12409	36399349
1	Hapmap50634-BTA-26738	57.48972	36595968
1	ARS-BFGL-NGS-44057	57.56584	36636902
1	ARS-BFGL-NGS-38419	57.61726	36664556
1	Hapmap49369-BTA-89952	57.91429	36824286
1	BTA-115758-no-rs	57.95	36903496
1	DPI-27	57.95	36985868
1	BTA-111760-no-rs	57.95	37017145
1	DPI-28	57.95	37046480
1	ARS-BFGL-BAC-11938	57.95	37088650
1	Hapmap46343-BTA-111768	57.95	37117597
1	BTA-111771-no-rs	57.95	37174447
1	ARS-BFGL-NGS-84905	57.95907	37209389
1	BTA-120277-no-rs	58.06631	37245658
1	BTA-89302-no-rs	58.10808	37289127
1	ARS-BFGL-NGS-12168	58.24018	37321005
1	ARS-BFGL-BAC-14429	58.38514	37355979
1	Hapmap39875-BTA-97144	58.50834	37385708
1	Hapmap29197-BTA-97143	58.68151	37430753
1	Hapmap42111-BTA-122184	58.86002	37500892
1	ARS-BFGL-NGS-23720	58.96591	37542495
1	ARS-BFGL-NGS-53463	59.30878	37677212
1	ARS-BFGL-NGS-100005	59.78101	37862758
1	ARS-BFGL-NGS-114608	59.89932	37909243
1	ARS-BFGL-NGS-103535	60.21857	38054226
1	ARS-BFGL-NGS-42813	60.49376	38230818
1	ARS-BFGL-NGS-85768	60.6158	38307976
1	BTA-16749-no-rs	60.68755	38352766
1	Hapmap51081-BTA-89053	60.72831	38378215
1	ARS-BFGL-BAC-15722	61.02898	38565905
1	ARS-BFGL-NGS-97815	61.1236	38624975
1	BTA-07775-no-rs	61.16268	38649369

1	BTA-109574-no-rs	61.42266	38811666	
1	Hapmap39970-BTA-117984	61.50494	38863022	
1	ARS-BFGL-NGS-26011	61.57745	38908284	
1	BTA-96881-no-rs	61.69706	38982951	
1	ARS-BFGL-BAC-7483	61.81017	39053558	
1	ARS-BFGL-NGS-84347	61.85771	39083240	
1	ARS-BFGL-BAC-11946	62.09713	39232695	
1	Hapmap47738-BTA-79246	62.13982	39259346	
1	ARS-BFGL-BAC-12579	62.26867	39339779	
1	Hapmap27571-BTA-123885	62.52684	39500943	
1	BTB-01810584	62.58733	39538704	
1	ARS-BFGL-NGS-107020	62.64094	39572166	
1	Hapmap51428-BTA-26864	62.67877	39595785	
1	BTB-00018760	62.77093	39653311	
1	Hapmap38790-BTA-87413	62.8344	39692931	
1	ARS-BFGL-BAC-13195	62.93273	39754319	
1	BTB-01806368	62.97343	39779727	
1	ARS-BFGL-NGS-34353	63.02816	39813886	
1	BTB-00018513	63.07127	39840805	
1	ARS-BFGL-NGS-20360	63.13078	39877948	
1	BTB-00018431	63.17075	39902902	
1	BTB-00018408	63.20169	39922217	
1	BTB-01249999	63.40027	40046179	
1	BTA-117821-no-rs	63.45199	40078462	
1	BTA-122545-no-rs	63.50386	40110845	
1	Hapmap51160-BTA-117818	63.64513	40169491	
1	ARS-BFGL-NGS-86662	63.73516	40206017	
1	ARS-BFGL-BAC-13216	63.86552	40258896	
1	ARS-BFGL-NGS-110537	63.96909	40300907	
1	BTB-01250420	64.09841	40353369	
1	Hapmap45471-BTA-117823	64.16369	40379850	
1	BTB-01250478	64.20319	40395870	
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1	BTB-01952363	64.37602	40465985	
1	BTA-111731-no-rs	64.44965	40495849	
1	ARS-BFGL-NGS-32825	64.56044	40540792	
1	BTB-01462455	64.67957	40589118	
1	Hapmap34927-BES7_Contig453_1164	64.75959	40621580	
1	BTB-01555269	65.18654	40794773	
1	BTB-01555328	65.27354	40830066	
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1	ARS-BFGL-NGS-45335	65.34331	40879690	
1	BTB-01135685	65.45898	41000663	
1	BTB-01135743	65.52271	41067306	
1	Hapmap23514-BTA-150593	65.54378	41089334	
1	Hapmap47786-BTA-95575	65.64133	41191350	
1	BTA-95584-no-rs	65.75996	41315418	
1	Hapmap38486-BTA-30602	65.80083	41379300	
1	Hapmap38103-BTA-28646	65.82281	41417336	
1	Hapmap33759-BTA-160998	65.83651	41441063	
1	BTB-01848824	65.85059	41465449	
1	BTA-122159-no-rs	65.86493	41490266	
1	BTB-01136210	65.87	41516238	
1	ARS-BFGL-NGS-106725	65.87	41577955	
1	Hapmap54599-rs29019617	65.88488	41608221	
1	ARS-BFGL-NGS-23369	65.91057	41639553	
1	ARS-BFGL-NGS-118356	65.98713	41732937	
1	ARS-BFGL-NGS-63816	66.0064	41756440	
1	Hapmap52536-rs29011297	66.02998	41785203	

1	Hapmap48210-BTA-120730	66.0704	41834501
1	ARS-BFGL-NGS-106432	66.11862	41893320
1	ARS-BFGL-BAC-15157	66.13556	41913980
1	ARS-BFGL-NGS-43530	66.16982	41955764
1	Hapmap50812-BTA-89669	66.18688	41976576
1	BTB-00019496	66.20573	41999570
1	BTB-01708786	66.32253	42142033
1	ARS-BFGL-NGS-56548	66.36242	42190693
1	BTB-02094179	66.39236	42227217
1	BTB-01955018	66.42377	42265516
1	BTA-104608-no-rs	66.44	42295681
1	ARS-BFGL-NGS-81807	66.44	42313742
1	BTA-27636-no-rs	66.44	42434198
1	BTB-00019582	66.44	42493010
1	ARS-BFGL-NGS-10059	66.44	42542346
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1	Hapmap53820-rs29010070	66.4982	42620205
1	BTB-00019705	66.58169	42721268
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1	BTB-00019769	66.62352	42771916
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1	ARS-BFGL-NGS-12781	66.64	42843006
1	Hapmap60973-rs29018366	66.64946	42890259
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1	Hapmap46502-BTA-89692	66.82673	43092980
1	ARS-BFGL-NGS-89857	66.87251	43145332
1	BTA-89698-no-rs	66.90385	43181180
1	Hapmap59911-rs29013984	66.96101	43246545
1	BTA-20952-no-rs	66.98302	43271718
1	BTA-89708-no-rs	67.00179	43293171
1	BTB-00020263	67.02336	43317853
1	Hapmap47773-BTA-89713	67.04704	43344918
1	BTA-89717-no-rs	67.08085	43383595
1	BTB-00020638	67.11677	43424668
1	BTB-00020648	67.13842	43449434
1	BTA-89719-no-rs	67.15742	43471154
1	ARS-BFGL-NGS-19097	67.21873	43541278
1	ARS-BFGL-NGS-106743	67.24355	43569660
1	BTB-00161977	67.26888	43598618
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1	ARS-BFGL-NGS-96886	67.35297	43694788
1	Hapmap49368-BTA-89726	67.38836	43735256
1	ARS-BFGL-NGS-116079	67.49874	43861492
1	ARS-BFGL-NGS-118317	67.56088	43932562
1	Hapmap57419-rs29025772	67.61034	43989116
1	Hapmap43396-BTA-89742	67.63651	44019050
1	ARS-BFGL-NGS-57355	67.72365	44118691
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1	BTA-89748-no-rs	67.77386	44176118
1	BTB-00021385	67.83849	44250030
1	BTB-01788892	68.09229	44446453
1	ARS-BFGL-NGS-5747	68.26286	44569518
1	BTA-15338-no-rs	68.29659	44593858
1	ARS-BFGL-NGS-99002	68.33726	44623201
1	BTA-86397-no-rs	68.36506	44643255
1	ARS-BFGL-NGS-4086	68.43392	44692942
1	ARS-BFGL-NGS-73542	68.51687	44752791
1	ARS-BFGL-NGS-19721	68.55009	44776759

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1	BTA-105868-no-rs	68.69807	44883531
1	BTB-01585499	68.75185	44922334
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1	ARS-BFGL-NGS-90894	68.83982	44985808
1	Hapmap26498-BTA-33060	68.9	45067210
1	ARS-BFGL-NGS-83544	68.9	45113934
1	BTA-21519-no-rs	68.9	45214460
1	ARS-BFGL-NGS-113539	68.9	45292210
1	ARS-BFGL-NGS-75951	68.9	45375265
1	ARS-BFGL-NGS-31349	68.9	45423220
1	BTA-95285-no-rs	68.9	45452593
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1	ARS-BFGL-NGS-68706	68.9	45569587
1	ARS-BFGL-NGS-113748	68.9	45592209
1	Hapmap38803-BTA-104250	68.9	45614604
1	ARS-BFGL-NGS-119382	68.9	45657940
1	BTB-00478386	68.9	45683339
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1	ARS-BFGL-NGS-10512	68.9	45804182
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1	ARS-BFGL-NGS-34687	68.9	45900804
1	BTB-01462011	68.9	45926861
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1	ARS-BFGL-NGS-31674	68.9	46038017
1	BTA-10863-rs29016414	68.9	46118784
1	BTA-95262-no-rs	68.9	46138869
1	BTB-01786029	68.9	46201490
1	BTA-89822-no-rs	68.9	46223040
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1	ARS-BFGL-NGS-114234	68.9	46283541
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1	ARS-BFGL-NGS-67684	68.9	46620571
1	BTB-00468485	68.9	46648008
1	BTB-00468476	68.9	46675519
1	BTB-01608930	69.00808	46778649
1	ARS-BFGL-NGS-69858	69.05186	46808068
1	BTA-109011-no-rs	69.22881	46926971
1	Hapmap39710-BTA-108633	69.35413	47011181
1	Hapmap54262-rs29018839	69.49004	47102513
1	ARS-BFGL-NGS-41577	69.52077	47123160
1	BTB-01546768	69.60218	47177862
1	BTB-01686544	69.66798	47222075
1	ARS-BFGL-NGS-23106	69.71217	47251774
1	Hapmap40153-BTA-99041	69.77802	47296021
1	BTA-99040-no-rs	69.81396	47320175
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1	BTB-01702372	70.05058	47479177
1	BTB-01572184	70.11747	47524118

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1	BTB-01967977	70.33337	47669197
1	BTB-01663516	70.38706	47701359
1	Hapmap42068-BTA-111564	70.5001	47745480
1	BTB-01202368	70.61083	47788706
1	BTB-01202377	70.65897	47807494
1	BTA-122400-no-rs	70.72153	47831916
1	Hapmap60003-rs29024905	70.78324	47856002
1	BTB-01202460	71.01178	47945210
1	Hapmap27230-BTA-162491	71.08421	47973478
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1	ARS-BFGL-NGS-73983	71.32455	48105788
1	ARS-BFGL-BAC-16973	71.34097	48130491
1	Hapmap49948-BTA-29490	71.37473	48181287
1	BTB-00021951	71.40245	48222988
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1	ARS-BFGL-NGS-41264	71.60199	48523202
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1	BTB-01146938	71.66263	48726549
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1	ARS-BFGL-NGS-49634	71.72989	48971016
1	BTB-00132817	71.78238	49161822
1	BTA-113021-no-rs	71.80122	49230292
1	BTB-01077379	71.81476	49279500
1	BTB-01077277	71.82554	49318678
1	BTB-01077261	71.83186	49341658
1	Hapmap57446-rs29023998	71.846	49393074
1	BTA-103555-no-rs	71.87009	49480638
1	BTB-01077007	71.88447	49532893
1	Hapmap50221-BTA-112986	71.89708	49578738
1	BTB-01615915	71.93996	49734575
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1	ARS-BFGL-BAC-15402	72.05	50191130
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1	Hapmap41715-BTA-100026	72.05	50320575
1	Hapmap30497-BTA-123949	72.05	50359829
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1	BTB-00022142	72.05	50434457
1	BTB-01165120	72.05	50465233
1	BTB-01165109	72.05	50511043
1	Hapmap49829-BTA-101896	72.08833	50574353
1	Hapmap29401-BTA-152822	72.12363	50621585
1	BTB-01164952	72.14706	50652927
1	BTB-01164946	72.16732	50680039
1	Hapmap52897-rs29012790	72.20618	50732049
1	BTB-01164879	72.23875	50775613
1	BTB-00022352	72.26884	50815882
1	BTB-00022376	72.29991	50857462
1	Hapmap41716-BTA-100042	72.32041	50884893
1	ARS-BFGL-NGS-103521	72.40172	50993685
1	ARS-BFGL-NGS-101533	72.42	51033230
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1	ARS-BFGL-NGS-80227	72.44901	51598998
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1	BTA-100070-no-rs	72.47272	51687463
1	UA-IFASA-6260	72.48187	51721572
1	BTA-07486-rs29027151	72.49449	51768647
1	Hapmap54644-rs29022483	72.51498	51845103
1	BTA-100081-no-rs	72.53043	51902748
1	BTB-00023322	72.55	51994611
1	ARS-BFGL-NGS-29536	72.55	52075648
1	ARS-BFGL-NGS-26781	72.55	52135065
1	BTA-27925-no-rs	72.55	52191701
1	Hapmap23148-BTA-123974	72.55	52251694
1	UA-IFASA-5103	72.55	52306846
1	ARS-BFGL-NGS-105123	72.55	52409229
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1	ARS-BFGL-NGS-17305	72.55	52493772
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1	ARS-BFGL-BAC-23725	72.79059	52696732
1	BTA-100058-no-rs	72.8178	52719660
1	Hapmap47522-BTA-120738	72.85159	52748123
1	BTA-120739-no-rs	72.91515	52801665
1	ARS-BFGL-NGS-89588	72.95388	52834285
1	BTB-00026002	73.00189	52874728
1	Hapmap27147-BTA-124015	73.09542	52953518
1	ARS-BFGL-NGS-76469	73.12626	52979497
1	ARS-BFGL-NGS-78259	73.22665	53064069
1	Hapmap24136-BTA-124014	73.25133	53084847
1	BTB-00025875	73.30929	53133677
1	BTB-00025760	73.43322	53238076
1	Hapmap47502-BTA-110302	73.47154	53270356
1	ARS-BFGL-NGS-100189	73.50251	53296440
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1	BTB-00025197	73.61172	53388440
1	BTB-00025259	73.64484	53416332
1	ARS-BFGL-BAC-18388	73.73205	53489802
1	BTB-00025135	73.77808	53528573
1	Hapmap47174-BTA-110289	73.80548	53551656
1	BTA-110282-no-rs	73.84472	53582877
1	ARS-BFGL-NGS-18743	73.94897	53630189
1	ARS-BFGL-NGS-94761	74.00716	53656600
1	Hapmap41428-BTA-110280	74.05692	53679183
1	ARS-BFGL-NGS-107096	74.22087	53753590
1	Hapmap53221-rs29019635	74.69443	53968516
1	Hapmap57738-rs29023662	74.7531	53995142
1	Hapmap48975-BTA-99363	74.83443	54032055
1	ARS-BFGL-BAC-20881	74.87934	54052439
1	BTB-00026752	74.98926	54102324
1	BTB-00026585	75.15905	54179627
1	ARS-BFGL-NGS-31009	75.24078	54216846
1	BTA-110335-no-rs	75.33484	54259681
1	Hapmap38807-BTA-110324	75.46146	54317344
1	ARS-BFGL-NGS-111929	75.51584	54342104



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1	ARS-BFGL-NGS-24057	75.86597	54501549
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1	ARS-BFGL-NGS-114712	75.98754	54556914
1	BTB-01044365	76.13742	54625163
1	BTA-30265-no-rs	76.1842	54646465
1	Hapmap49009-BTA-107212	76.28157	54690810
1	BTB-01605050	76.33416	54714755
1	ARS-BFGL-NGS-43783	76.46532	54774488
1	BTB-01712157	76.5649	54819828
1	BTB-01712147	76.61919	54844550
1	BTB-01315615	76.6819	54873112
1	BTA-21826-no-rs	76.8689	54958273
1	ARS-BFGL-NGS-86970	76.93455	54988164
1	BTB-01315516	77.08772	55057917
1	Hapmap47540-BTA-21819	77.15	55107953
1	Hapmap39813-BTA-21834	77.15	55150553
1	BTB-01315457	77.15	55174553
1	BTB-01131103	77.21764	55288120
1	Hapmap49383-BTA-93867	77.27029	55326027
1	BTB-01131178	77.31614	55359042
1	BTA-93863-no-rs	77.3549	55386945
1	ARS-BFGL-BAC-32896	77.43439	55444187
1	Hapmap38361-BTA-93866	77.4692	55469249
1	BTB-01131384	77.5107	55499124
1	BTB-01914655	77.57343	55544288
1	ARS-BFGL-NGS-115305	77.73069	55784222
1	Hapmap32092-BTA-149957	77.7427	55810689
1	ARS-BFGL-NGS-85105	77.75267	55832662
1	Hapmap47445-BTA-93870	77.79694	55930246
1	Hapmap33225-BTA-151395	77.82647	55995337
1	ARS-BFGL-NGS-39684	77.86711	56084928
1	Hapmap43173-BTA-120253	77.91629	56193336
1	ARS-BFGL-NGS-115307	77.96198	56294040
1	ARS-BFGL-NGS-87494	78.17566	56505444
1	BTA-25876-no-rs	78.33308	56551196
1	ARS-BFGL-NGS-31315	78.6664	56648072
1	BTA-25809-no-rs	78.74136	56669858
1	BTA-25883-no-rs	78.86597	56706072
1	ARS-BFGL-NGS-111138	79.24886	56817352
1	ARS-BFGL-NGS-38890	79.4118	56864714
1	ARS-BFGL-NGS-59270	79.53958	56901848
1	ARS-BFGL-NGS-15221	79.72624	56983259
1	ARS-BFGL-NGS-52696	79.84429	57050886
1	Hapmap39218-BTA-25795	80.00257	57141557
1	ARS-BFGL-NGS-89	80.05393	57170980
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1	ARS-BFGL-NGS-18996	80.17159	57238377
1	Hapmap59481-rs29019616	80.35081	57341049
1	Hapmap44594-BTA-25389	80.68143	57426987
1	Hapmap38147-BTA-25404	80.92847	57660748
1	ARS-BFGL-NGS-102073	80.9898	57692535
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1	ARS-BFGL-NGS-94399	81.27905	57842473
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1	ARS-BFGL-NGS-63947	82.56347	58668639		
1	Hapmap36459-SCAFFOLD9563_462	82.62561	58695977		
1	Hapmap23307-BTA-124083	82.68696	58722694		
1	ARS-BFGL-NGS-103637	82.77439	58760778		
1	Hapmap44172-BTA-96950	83.07	58985342		
1	Hapmap47450-BTA-96948	83.1058	59071436		
1	Hapmap44328-BTA-97952	83.62785	59256538		
1	BTA-96949-no-rs	83.6927	59279533		
1	BTA-31615-no-rs	83.85478	59337004		
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1	Hapmap40924-BTA-21991	84.47397	59614492		
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1	Hapmap48289-BTA-31617	84.62289	59683842		
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1	BTB-00028484	85.02737	59852828		
1	Hapmap25636-BTA-31622	85.02896	59879169		
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1	ARS-BFGL-NGS-115239	85.17736	60477492		
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1	Hapmap42177-BTA-31679	85.51173	61125554		
1	ARS-BFGL-NGS-58051	85.55845	61155727		
1	Hapmap35167-VSWCP1D5775A_scf01		85.61018	61189139	
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1	BTB-00031129	86.82672	61530474
1	BTA-92181-no-rs	86.87022	61540639
1	BTB-00030962	87.25	61652849
1	Hapmap38402-BTA-32592	87.25918	61681629
1	BTB-00030894	87.51414	61749066
1	BTB-00030699	87.56972	61806466
1	ARS-BFGL-NGS-27164	87.59509	61832670
1	Hapmap53538-rs29018897	87.69556	61936456
1	ARS-BFGL-NGS-2189	87.75337	61996164
1	Hapmap51585-BTA-32601	87.85789	62104120
1	BTA-103663-no-rs	87.8775	62124386
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1	ARS-BFGL-NGS-101934	87.98014	62230401
1	BTB-02071091	88.00066	62251590
1	Hapmap42400-BTA-102731	88.09079	62344691
1	ARS-BFGL-NGS-91410	88.15771	62420424
1	BTB-01806856	88.31222	62607089
1	BTA-32620-no-rs	88.44351	62765705
1	BTB-00031464	88.48156	62811670
1	BTB-00031535	88.50714	62842581
1	ARS-BFGL-NGS-42248	88.53312	62873964
1	ARS-BFGL-NGS-102719	88.56249	62909449
1	ARS-BFGL-NGS-115080	88.61144	62968592
1	ARS-BFGL-NGS-114995	88.63655	62998921
1	ARS-BFGL-NGS-100977	88.65872	63025706
1	BTB-01665387	88.68846	63061634
1	ARS-BFGL-NGS-14335	88.71907	63098616
1	BTB-01506507	88.79102	63127376
1	ARS-BFGL-NGS-106011	88.87299	63159279
1	BTB-01285049	88.9753	63199096
1	ARS-BFGL-NGS-112682	89.0696	63235795
1	BTB-01285245	89.17765	63277846
1	Hapmap49510-BTA-17452	89.35696	63372417
1	ARS-BFGL-NGS-4583	89.41654	63421529
1	BTA-32633-no-rs	89.44563	63445511
1	BTB-00031779	89.50188	63491880
1	BTA-108948-no-rs	89.60315	63575356
1	BTA-101821-no-rs	89.7001	63653354
1	ARS-BFGL-NGS-116361	89.76591	63706033
1	Hapmap49061-BTA-122268	89.81157	63742577
1	ARS-BFGL-NGS-44433	89.88216	63799085
1	Hapmap44333-BTA-104611	89.91478	63825188
1	ARS-BFGL-NGS-105436	90.07249	63951419
1	ARS-BFGL-NGS-3132	90.1729	64031787
1	BTB-00640138	90.23063	64077996
1	BTB-00639971	90.31535	64145803
1	Hapmap31089-BTA-130737	90.39198	64207146
1	Hapmap46935-BTA-113728	90.45786	64253061
1	BTB-01687859	90.57442	64301934
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1	ARS-BFGL-NGS-31791	91.22517	64445959
1	ARS-BFGL-NGS-27619	91.24021	64474719
1	UA-IFASA-9174	91.30199	64592861

1	BTB-00451094	91.32108	64629383
1	BTB-00033025	91.34122	64667900
1	ARS-BFGL-NGS-10860	91.35402	64692368
1	BTB-00033060	91.37406	64730690
1	ARS-BFGL-NGS-71757	91.39301	64766940
1	BTB-00033090	91.40411	64788160
1	BTB-00033167	91.44391	64864266
1	ARS-BFGL-NGS-15927	91.46718	64908763
1	ARS-BFGL-NGS-112971	91.53648	64955929
1	BTB-00026837	91.59179	64990681
1	Hapmap31713-BTA-124020	91.61726	65025357
1	ARS-BFGL-NGS-33635	91.63509	65082461
1	BTB-00027047	91.64182	65103965
1	BTB-00027056	91.64893	65126749
1	Hapmap45865-BTA-15414	91.67288	65203417
1	ARS-BFGL-NGS-112600	91.68021	65226899
1	ARS-BFGL-NGS-36873	91.68834	65252905
1	BTB-00027149	91.6957	65276480
1	BTB-00027201	91.71509	65338549
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1	BTB-00027298	91.74481	65433706
1	BTB-00027332	91.7551	65466612
1	BTB-00027405	91.76415	65495613
1	Hapmap42852-BTA-15416	91.77241	65522044
1	Hapmap32539-BTA-124026	91.79058	65580210
1	Hapmap55251-rs29014781	91.81472	65624310
1	BTB-00027516	91.96797	65769328
1	ARS-BFGL-NGS-83021	92.14574	65937547
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1	BTB-02069463	92.2299	66017181
1	ARS-BFGL-NGS-3996	92.33989	66121259
1	ARS-BFGL-NGS-115763	92.35933	66139653
1	ARS-BFGL-NGS-43799	92.41098	66188527
1	Hapmap40403-BTA-15429	92.4549	66230091
1	ARS-BFGL-BAC-19439	92.47871	66252625
1	ARS-BFGL-BAC-19440	92.57555	66344261
1	BTB-00027638	92.60172	66369026
1	ARS-BFGL-NGS-111569	92.63325	66398856
1	ARS-BFGL-NGS-61672	92.68785	66450521
1	Hapmap39399-BTA-33610	92.72296	66483743
1	Hapmap40951-BTA-33609	92.76034	66519111
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1	BTB-00032648	93.61317	67115284
1	BTB-00033186	93.69054	67160040
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1	BTB-00026110	93.98721	67331639
1	BTA-31636-no-rs	94.10458	67399528
1	BTA-05186-no-rs	94.18179	67444188
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1	BTB-00032163	94.78481	67792994
1	Hapmap58284-rs29018937	94.9446	67885415
1	ARS-BFGL-NGS-119133	94.99	67969838
1	Hapmap41826-BTA-31654	94.99	68023878
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1	ARS-BFGL-NGS-113914	95.19534	68135318
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1	BTA-34599-no-rs	95.36702	68227488
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1	ARS-BFGL-NGS-4503	95.51665	68307813
1	ARS-BFGL-NGS-27724	95.60137	68353295
1	ARS-BFGL-BAC-3570	95.63934	68373678
1	Hapmap46988-BTA-34591	95.69478	68403441
1	ARS-BFGL-NGS-111491	95.79552	68457522
1	ARS-BFGL-NGS-9429	95.88847	68507419
1	Hapmap50666-BTA-34589	95.9364	68533156
1	ARS-BFGL-NGS-72247	96.02325	68579776
1	Hapmap39647-BTA-34584	96.06942	68604562
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1	ARS-BFGL-NGS-19470	96.51915	68937163
1	Hapmap59979-rs29025402	96.55325	68966218
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1	ARS-BFGL-NGS-59612	96.94313	69435214
1	Hapmap38055-BTA-120751	96.96056	69475667
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1	Hapmap59820-rs29019798	97.0919	69690407
1	ARS-BFGL-NGS-110495	97.1977	69803449
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1	ARS-BFGL-NGS-62687	97.25334	69867959
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1	Hapmap41227-BTA-32644	97.72	70481556
1	Hapmap39468-BTA-120746	97.72	70553668
1	BTB-00031796	97.72	70660314
1	Hapmap59145-ss46526952	97.93712	70840701
1	Hapmap48672-BTA-17044	97.95239	70852215
1	Hapmap50667-BTA-34616	98.11442	70974318
1	ARS-BFGL-NGS-80523	98.14332	70996099
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1	ARS-BFGL-NGS-20101	98.29428	71109866

1	ARS-BFGL-NGS-95516	98.45261	71229187
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1	BTA-34631-no-rs	98.94512	71623173
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1	BTA-120754-no-rs	99.29516	71932575
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1	BTA-34624-no-rs	99.31809	72020602
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1	Hapmap43559-BTA-35576	99.52164	72801931
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1	ARS-BFGL-NGS-59448	99.60996	73140918
1	Hapmap41511-BTA-34652	99.62	73239166
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1	ARS-BFGL-NGS-40388	99.62	73321288
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1	Hapmap52010-BTA-34646	99.62	73441389
1	Hapmap35151-BES4_Contig435_1199	99.62	73487973
1	BTA-35604-no-rs	99.62	73681836
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1	ARS-BFGL-BAC-32073	99.62	73950237
1	ARS-BFGL-BAC-34001	99.62	73984119
1	ARS-BFGL-NGS-114968	99.62429	74009574
1	ARS-BFGL-NGS-53144	99.64515	74046575
1	ARS-BFGL-NGS-23062	99.66127	74075179
1	ARS-BFGL-NGS-32169	99.73038	74197805
1	ARS-BFGL-BAC-36572	99.74237	74219065
1	BTA-35628-no-rs	99.77811	74282462
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1	BTA-35631-no-rs	99.84487	74400912
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1	ARS-BFGL-NGS-7099	99.87808	74459840
1	Hapmap38109-BTA-36588	99.94688	74581903
1	BTA-36593-no-rs	100.0423	74751227

1	ARS-BFGL-NGS-37438	100.2579	75146323	
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1	Hapmap39889-BTA-114934	100.3013	75227225	
1	Hapmap51396-BTA-114937	100.318	75258338	
1	ARS-BFGL-NGS-37067	100.341	75301239	
1	Hapmap60658-rs29025870	100.3555	75328281	
1	Hapmap51567-BTA-17154	100.3742	75363231	
1	Hapmap35190-BES10_Contig762_2071	100.4122		75433980
1	Hapmap25308-BTA-153014	100.4505	75505402	
1	ARS-BFGL-NGS-34525	100.5009	75588102	
1	ARS-BFGL-NGS-15456	100.5191	75618069	
1	ARS-BFGL-BAC-31478	100.5973	75691167	
1	Hapmap39961-BTA-100527	100.7521	75796077	
1	Hapmap59172-rs29012834	100.8774	75880996	
1	ARS-BFGL-NGS-72713	100.9916	75958384	
1	ARS-BFGL-NGS-64672	101.4196	76248393	
1	Hapmap42898-BTA-28764	101.489	76295386	
1	BTA-28763-no-rs	101.5425	76331663	
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1	ARS-BFGL-NGS-41839	101.6683	76416854	
1	ARS-BFGL-BAC-31487	101.7487	76471373	
1	Hapmap44063-BTA-36599	101.9716	76622415	
1	ARS-BFGL-NGS-1406	102.0052	76645192	
1	ARS-BFGL-BAC-31482	102.2229	76792695	
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1	Hapmap50334-BTA-36619	102.4376	76938175	
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1	ARS-BFGL-NGS-4661	102.9498	77322075	
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1	Hapmap41244-BTA-36610	103.23	77889364	
1	Hapmap48729-BTA-36615	103.23	77983959	
1	Hapmap58919-rs29009958	103.23	78034231	
1	ARS-BFGL-NGS-56146	103.23	78088393	
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1	Hapmap47180-BTA-112104	103.3139	78511271	
1	ARS-BFGL-NGS-39176	103.3715	78601007	
1	ARS-BFGL-NGS-13617	103.3951	78637787	
1	Hapmap26500-BTA-37512	103.4351	78763254	
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1	BTA-37493-no-rs	103.4844	78826926	
1	BTB-00034886	103.5449	78904951	
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1	ARS-BFGL-NGS-119431	103.6085	78986953	
1	ARS-BFGL-BAC-33415	103.6262	79009807	
1	BTB-00034743	103.6457	79034999	
1	Hapmap43564-BTA-36647	103.6642	79058798	
1	BTB-00034692	103.7032	79109155	
1	Hapmap40722-BTA-36642	103.7296	79143280	
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1	BTB-00034595	103.7873	79217648	
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1	BTB-00034221	104.3294	79591551
1	Hapmap51218-BTA-36630	104.3371	79629427
1	BTB-00034202	104.3456	79671395
1	Hapmap49586-BTA-36632	104.3516	79700956
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1	ARS-BFGL-NGS-24966	104.3849	79780029
1	ARS-BFGL-NGS-68451	104.4251	79841328
1	ARS-BFGL-NGS-113198	104.451	79880934
1	Hapmap51438-BTA-37566	104.4662	79904055
1	ARS-BFGL-NGS-111888	104.5041	79961896
1	BTB-00036018	104.5418	80019442
1	ARS-BFGL-NGS-100951	104.5705	80063107
1	BTA-37567-no-rs	104.5972	80103951
1	Hapmap41250-BTA-38429	104.6211	80140397
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1	ARS-BFGL-NGS-22536	104.7061	80269992
1	BTB-00036138	104.7583	80349645
1	Hapmap50131-BTA-85559	104.8093	80427462
1	ARS-BFGL-NGS-19741	104.8887	80548510
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1	BTA-38445-no-rs	105.1348	80923799
1	BTA-01205-rs29012172	105.1493	80945924
1	ARS-BFGL-NGS-26946	105.1961	80974985
1	Hapmap43250-BTA-37524	105.2685	81018906
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1	BTA-37523-no-rs	105.3669	81072227
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1	Hapmap49149-BTA-39529	105.7899	81271586
1	BTA-39497-no-rs	105.9026	81324674
1	Hapmap14994-rs29012500	105.9463	81345283
1	ARS-BFGL-NGS-78633	106.0056	81373204
1	BTB-00037326	106.0761	81406451
1	ARS-BFGL-NGS-112626	106.1869	81458625
1	Hapmap41856-BTA-39501	106.2467	81486839
1	Hapmap53238-rs29021199	106.3088	81516088
1	BTA-39503-no-rs	106.3601	81540249
1	ARS-BFGL-NGS-17054	106.4057	81561737
1	BTA-39510-no-rs	106.4645	81589478
1	ARS-BFGL-NGS-106454	106.5359	81623098
1	ARS-BFGL-NGS-116286	106.6078	81656974
1	ARS-BFGL-NGS-71379	106.7038	81702230
1	Hapmap42929-BTA-39525	106.7746	81735566
1	BTA-39523-no-rs	106.8278	81760654
1	BTA-39521-no-rs	106.8638	81790858
1	BTA-39518-no-rs	106.8924	81831778
1	ARS-BFGL-NGS-56254	106.9119	81859735
1	BTB-01187540	107.0236	82007029
1	Hapmap55227-rs29009709	107.0517	82032365
1	BTB-01777594	107.0822	82059960
1	BTB-01187501	107.149	82120231
1	Hapmap47824-BTA-107197	107.16	82147822
1	Hapmap53346-ss46526210	107.16	82176939
1	ARS-BFGL-NGS-61854	107.16	82216432
1	BTB-01187418	107.16	82261456



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1	BTB-01187109	107.16	82436081
1	BTA-107196-no-rs	107.16	82468782
1	BTB-00035766	107.16	82510970
1	Hapmap42233-BTA-49670	107.1963	82559884
1	ARS-BFGL-NGS-19217	107.4	82680131
1	Hapmap30916-BTA-91383	107.4078	82702231
1	ARS-BFGL-NGS-111849	107.4211	82725824
1	BTB-01059241	107.4555	82787221
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1	BTA-38502-no-rs	107.5537	82928948
1	ARS-BFGL-NGS-14913	107.5731	82951366
1	ARS-BFGL-NGS-68869	107.6205	83006326
1	ARS-BFGL-NGS-98669	107.6417	83030921
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1	Hapmap40421-BTA-39479	107.92	83110583
1	ARS-BFGL-NGS-69661	107.92	83132079
1	BTB-00037209	107.92	83154570
1	BTA-39489-no-rs	107.92	83178207
1	ARS-BFGL-NGS-2950	107.9308	83267242
1	BTB-00036349	107.9462	83316586
1	ARS-BFGL-NGS-35667	107.9731	83402539
1	BTB-01764839	108.0576	83672872
1	ARS-BFGL-NGS-116572	108.1094	83838758
1	Hapmap39022-BTA-38447	108.1159	83859398
1	ARS-BFGL-NGS-53869	108.1337	83916372
1	Hapmap41527-BTA-38460	108.1401	83936851
1	Hapmap40527-BTA-38457	108.1947	84111692
1	Hapmap52416-rs29016842	108.2148	84175752
1	BTB-01915967	108.2309	84227252
1	Hapmap57391-rs29026905	108.2439	84269107
1	BTB-00036444	108.268	84345904
1	BTB-01702174	108.2925	84424501
1	BTB-01702150	108.2993	84446080
1	BTB-01431374	108.3414	84580772
1	ARS-BFGL-NGS-4047	108.3585	84614199
1	Hapmap47779-BTA-92798	108.4909	84705191
1	Hapmap38311-BTA-39536	108.6156	84790848
1	Hapmap44071-BTA-39540	108.7024	84850448
1	BTA-39546-no-rs	108.7714	84897864
1	ARS-BFGL-NGS-118640	108.839	84944278
1	BTB-00038173	108.9078	84991511
1	BTA-39548-no-rs	109.1412	85151862
1	Hapmap55404-rs29024815	109.3491	85294656
1	Hapmap33711-BTA-124326	109.6849	85525315
1	ARS-BFGL-NGS-117410	109.8971	85671043
1	Hapmap42933-BTA-40454	109.9851	85731453
1	BTA-100920-no-rs	110	85760198
1	Hapmap40730-BTA-40453	110	85799321
1	ARS-BFGL-NGS-54077	110.059	85911356
1	BTB-00038446	110.1015	85959409
1	BTB-00037084	110.1636	86029442
1	ARS-BFGL-NGS-58323	110.1883	86057271
1	Hapmap44647-BTA-38494	110.2154	86087819
1	BTB-00037008	110.2567	86134439
1	Hapmap43254-BTA-38489	110.5112	86421573
1	BTA-38487-no-rs	110.5352	86448644
1	BTB-00036985	110.5597	86476259

1	BTB-00036965	110.6189	86543082
1	ARS-BFGL-NGS-115710	110.666	86596243
1	Hapmap48736-BTA-38482	110.7074	86642884
1	ARS-BFGL-NGS-72201	110.8054	86753474
1	ARS-BFGL-NGS-82014	110.8266	86777370
1	BTB-00036683	110.863	86818418
1	ARS-BFGL-NGS-110543	110.9067	86867787
1	BTB-00036784	110.9254	86888776
1	Hapmap45277-BTA-38474	110.9447	86910584
1	BTA-38473-no-rs	110.9634	86931672
1	BTA-38476-no-rs	110.9964	86968922
1	ARS-BFGL-BAC-6363	111.1132	87100663
1	Hapmap52334-rs29027507	111.1675	87161990
1	BTA-40478-no-rs	111.2243	87226006
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1	ARS-BFGL-BAC-33122	111.4005	87424785
1	ARS-BFGL-NGS-20558	111.4272	87454919
1	BTB-02052555	111.5021	87539440
1	Hapmap59015-rs29021588	111.5327	87573900
1	BTB-00038588	111.5694	87615299
1	BTB-00038586	111.6132	87664746
1	Hapmap49096-BTA-25573	111.6668	87725213
1	BTA-13139-rs29018103	111.7109	87774971
1	BTB-01858021	111.7594	87829634
1	Hapmap44359-BTA-25574	111.8335	87913280
1	BTA-122780-no-rs	111.8581	87941018
1	BTA-25575-no-rs	111.8857	87972118
1	ARS-BFGL-NGS-105257	111.9034	87992112
1	Hapmap47477-BTA-103865	111.9553	88050696
1	BTA-103871-no-rs	111.9871	88086502
1	Hapmap54455-rs29016036	112.0145	88117471
1	ARS-BFGL-NGS-114428	112.0618	88150843
1	Hapmap57808-rs29009859	112.0869	88167139
1	Hapmap47817-BTA-104461	112.1459	88205509
1	ARS-BFGL-NGS-82489	112.3341	88327865
1	BTB-00039314	112.3815	88358715
1	BTB-00039253	112.5413	88462591
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1	Hapmap54781-rs29010500	112.6597	88539617
1	BTA-40510-no-rs	112.8122	88638760
1	BTA-40495-no-rs	112.8948	88698235
1	Hapmap58015-rs29026448	112.994	88801264
1	BTA-40481-no-rs	113.0884	88899250
1	BTB-01195902	113.2427	89059581
1	BTA-108728-no-rs	113.2734	89091419
1	BTA-108733-no-rs	113.3206	89140501
1	BTB-01195945	113.3676	89189213
1	Hapmap47529-BTA-122384	113.42	89243673
1	BTB-01196345	113.4596	89284818
1	ARS-BFGL-NGS-94042	113.4987	89325400
1	BTB-01196514	113.5308	89358747
1	Hapmap27729-BTA-108726	113.6005	89431170
1	UA-IFASA-7467	113.9126	89755328
1	BTA-88734-no-rs	113.941	89784824
1	ARS-BFGL-NGS-107398	113.9946	89840519
1	Hapmap51446-BTA-41504	114.0306	89877873
1	ARS-BFGL-NGS-23253	114.0527	89900842
1	Hapmap27148-BTA-124406	114.0917	89941301
1	ARS-BFGL-NGS-29136	114.1724	90025134

1	ARS-BFGL-NGS-25311	114.2649	90121176	
1	BTB-00041036	114.2984	90156001	
1	BTA-41494-no-rs	114.337	90196132	
1	Hapmap51445-BTA-41490	114.3821	90242919	
1	ARS-BFGL-NGS-3794	114.4479	90311323	
1	BTB-00040808	114.4823	90347030	
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1	BTA-41479-no-rs	114.6326	90503071	
1	BTA-41478-no-rs	114.6884	90561071	
1	ARS-BFGL-NGS-12933	114.7615	90637000	
1	ARS-BFGL-BAC-36098	114.8125	90689913	
1	Hapmap48236-BTA-17964	114.8365	90714916	
1	Hapmap60827-rs29019866	114.8791	90759099	
1	Hapmap49986-BTA-41525	114.9213	90802931	
1	Hapmap30020-BTA-150228	115.0102	90895301	
1	Hapmap46543-BTA-94613	115.0303	90916197	
1	BTA-94619-no-rs	115.0695	90956859	
1	Hapmap54568-rs29010311	115.1121	91001080	
1	BTA-94612-no-rs	115.1411	91031267	
1	Hapmap28877-BTA-24431	115.1752	91066621	
1	BTA-24432-no-rs	115.2009	91093330	
1	Hapmap44640-BTA-24435	115.2242	91117527	
1	Hapmap55511-rs29010538	115.2595	91154241	
1	BTB-01331667	115.3501	91248261	
1	BTB-01331698	115.3712	91270222	
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1	BTB-01846098	115.572	91460563	
1	BTA-24172-no-rs	115.6051	91490680	
1	BTA-24073-no-rs	115.6525	91533901	
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1	BTB-01762766	116.0596	91904464	
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1	BTA-112211-no-rs	116.211	92225849	
1	BTA-24325-no-rs	116.2233	92273799	
1	BTB-01331221	116.232	92308130	
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1	Hapmap47178-BTA-111157	116.2712	92461552	
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1	Hapmap26451-BTA-156064	116.3105	92615520	
1	Hapmap52705-rs29019397	116.319	92648727	
1	ARS-BFGL-NGS-23990	116.32	92687973	
1	Hapmap34541-BES11_Contig293_887	116.32	92893684	
1	BTA-17923-no-rs	116.32	92958471	
1	Hapmap53960-rs29016796	116.3716	93002837	
1	BTA-17930-no-rs	116.6914	93172083	
1	Hapmap40307-BTA-42417	116.7559	93252325	

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1	Hapmap50358-BTA-42427	116.8775	93403653
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1	ARS-BFGL-NGS-107347	117.0368	93601848
1	BTA-48243-no-rs	117.0668	93639215
1	Hapmap41001-BTA-48148	117.1212	93706862
1	Hapmap61079-rs29013410	117.2707	93892947
1	Hapmap42952-BTA-48143	117.3205	93954887
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1	ARS-BFGL-BAC-36877	117.4918	94168061
1	Hapmap55432-rs29009621	117.5292	94214604
1	BTA-121233-no-rs	117.549	94239208
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1	BTB-01087150	117.7683	94512100
1	BTA-85701-no-rs	117.8272	94585445
1	Hapmap42095-BTA-120006	117.858	94623786
1	ARS-BFGL-NGS-14083	117.9011	94677356
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1	BTB-01086885	117.9811	94776896
1	ARS-BFGL-NGS-80214	118.0485	94860836
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1	BTB-01086804	118.1224	94952782
1	BTB-01086791	118.1449	94980756
1	Hapmap40301-BTA-119986	118.1844	95029947
1	BTA-11416-rs29017177	118.2421	95101691
1	ARS-BFGL-NGS-18020	118.2677	95133504
1	ARS-BFGL-NGS-22239	118.3316	95213011
1	Hapmap41451-BTA-119981	118.3683	95258770
1	BTB-01086542	118.3854	95279975
1	BTB-01591692	118.3992	95297194
1	ARS-BFGL-NGS-113387	118.4411	95343592
1	Hapmap58800-rs29016980	118.4875	95394906
1	ARS-BFGL-NGS-83934	118.5129	95423065
1	Hapmap52675-rs29021342	118.5619	95477262
1	Hapmap48635-BTA-118353	118.6801	95608009
1	ARS-BFGL-BAC-36902	118.7497	95684940
1	BTA-122559-no-rs	118.7802	95718992
1	ARS-BFGL-NGS-104619	118.7941	95750768
1	ARS-BFGL-NGS-111885	118.824	95819377
1	ARS-BFGL-NGS-2011	118.8361	95847141
1	Hapmap58062-rs29012621	118.9284	96059058
1	ARS-BFGL-NGS-8753	118.9767	96169900
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1	Hapmap50694-BTA-44240	119.0331	96299260
1	Hapmap59668-rs29015093	119.0694	96382717
1	BTA-44249-no-rs	119.1083	96472067
1	ARS-BFGL-NGS-104596	119.1242	96508341
1	BTA-44254-no-rs	119.1438	96553339
1	Hapmap42941-BTA-44265	119.1566	96582794
1	BTA-44267-no-rs	119.2106	96677750
1	ARS-BFGL-NGS-14357	119.2769	96791940
1	Hapmap51902-BTA-44288	119.32	96942516
1	Hapmap47007-BTA-43282	119.3816	97123740
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1	UA-IFASA-7818	119.4185	97195480

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1	Hapmap38956-BTA-43309	119.5061	97366225	
1	Hapmap54512-rs29023726	119.5184	97390136	
1	ARS-BFGL-NGS-19572	119.5337	97420045	
1	Hapmap49174-BTA-43310	119.5536	97458910	
1	ARS-BFGL-NGS-4387	119.5667	97484342	
1	ARS-BFGL-NGS-96411	119.5829	97515884	
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1	ARS-BFGL-NGS-112806	119.6479	97642612	
1	BTA-43335-no-rs	119.6616	97669242	
1	ARS-BFGL-NGS-94323	119.7011	97746135	
1	BTA-43340-no-rs	119.7833	97906442	
1	Hapmap40001-BTA-43342	119.7961	97931346	
1	BTA-43345-no-rs	119.8088	97955982	
1	Hapmap39920-BTA-43352	119.8714	98078072	
1	ARS-BFGL-NGS-34686	119.9	98133752	
1	ARS-BFGL-NGS-29866	119.9321	98196332	
1	Hapmap54106-rs29011049	119.9535	98238089	
1	Hapmap40109-BTA-120766	119.9831	98274088	
1	BTA-43360-no-rs	120.091	98343497	
1	Hapmap46568-BTA-43363	120.1378	98370433	
1	Hapmap58135-rs29019531	120.2429	98430806	
1	Hapmap31069-BTA-124454	120.4716	98552740	
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1	BTB-00042539	120.6115	98702244	
1	BTB-00042515	120.6228	98728925	
1	Hapmap44463-BTA-43379	120.6318	98750172	
1	BTB-00042676	120.6441	98779294	
1	Hapmap46140-BTA-43381	120.6563	98808327	
1	Hapmap49178-BTA-44203	120.6837	98873080	
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1	BTA-44205-no-rs	120.7039	98920845	
1	Hapmap43268-BTA-44209	120.7316	98986363	
1	Hapmap49612-BTA-44210	120.7431	99013561	
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1	Hapmap41389-BTA-95970	121.4045	99642111	
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1	Hapmap38145-BTA-23986	121.7109	99769147	
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1	BTB-01234531	122.63	101140718
1	BTB-01234416	122.63	101188217
1	Hapmap32126-BTA-157362	122.63	101231777
1	BTA-115500-no-rs	122.63	101308751
1	Hapmap33240-BTA-157357	122.63	101330295
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1	Hapmap41469-BTA-19461	122.6338	101403755
1	Hapmap43160-BTA-116211	122.6478	101476469
1	BTA-109808-no-rs	122.6731	101537204
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1	BTA-95685-no-rs	123.071	101956485
1	BTA-95676-no-rs	123.1251	101977997
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1	Hapmap26420-BTA-148636	123.6012	102167348
1	Hapmap28099-BTA-150614	123.8071	102249245
1	BTB-01684686	123.9535	102307473
1	BTB-00807186	124.0328	102421173
1	BTB-00807137	124.0359	102442760
1	BTB-00807095	124.0392	102464968
1	BTA-51653-no-rs	124.05	102538612
1	BTB-00047321	124.0541	102567034
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1	ARS-BFGL-NGS-11628	124.0747	102707429
1	BTA-46150-no-rs	124.0872	102792723
1	ARS-BFGL-NGS-54096	124.0937	102837279
1	ARS-BFGL-BAC-4585	124.0976	102864195
1	BTB-01757785	124.1035	102903978
1	BTB-01992706	124.1091	102942640
1	Hapmap42215-BTA-45259	124.1139	102975544
1	BTB-00046888	124.1226	103034522
1	Hapmap51453-BTA-45251	124.128	103071560

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1	BTB-00046682	124.1402	103154830
1	BTB-00046603	124.1447	103185339
1	ARS-BFGL-NGS-76111	124.1497	103219606
1	Hapmap60166-rs29019307	124.1811	103434094
1	BTB-00007274	124.1853	103463199
1	BTA-39422-no-rs	124.1931	103515881
1	BTB-01582427	124.197	103543035
1	BTB-00006833	124.2089	103623793
1	BTA-39406-no-rs	124.2165	103675933
1	BTB-00046514	124.2242	103728420
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1	Hapmap39785-BTA-85933	124.233	103788356
1	BTB-02074068	124.2396	103833758
1	BTB-00045786	124.2531	103926075
1	BTB-00045751	124.2567	103950225
1	Hapmap38948-BTA-28757	124.2601	103973956
1	BTB-00046247	124.271	104048241
1	BTB-02007023	124.2814	104119054
1	Hapmap42893-BTA-27908	124.2863	104152463
1	BTB-01831301	124.3228	104220701
1	BTB-01579680	124.3509	104257251
1	BTB-01579733	124.3688	104280525
1	BTB-01579839	124.418	104344681
1	BTB-01330924	124.9913	104798012
1	BTB-01331013	125.0716	104842361
1	ARS-BFGL-NGS-119528	125.23	104958924
1	ARS-BFGL-NGS-112619	125.2633	104991163
1	BTB-01776340	125.3594	105084197
1	BTB-01776404	125.385	105108951
1	ARS-BFGL-NGS-118286	125.4473	105169245
1	BTB-01690684	125.4703	105191465
1	BTB-01690739	125.4954	105215796
1	BTB-02073725	125.5456	105264358
1	BTB-00045108	125.5754	105293236
1	BTB-01648341	125.6729	105387594
1	ARS-BFGL-NGS-111126	125.7024	105416066
1	BTB-00044897	125.8985	105477614
1	BTB-02095892	126.0976	105570832
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1	ARS-BFGL-NGS-111524	126.3167	106015356
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1	BTB-00048807	126.4608	106245603
1	BTB-00048761	126.4753	106267009
1	BTB-00048739	126.4951	106295981
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1	Hapmap54763-rs29012506	126.5422	106365182
1	Hapmap13023-BTA-95276	126.5713	106407844
1	Hapmap27036-BTA-163250	126.6022	106453206
1	Hapmap41548-BTA-46240	126.6429	106512965
1	ARS-BFGL-NGS-70855	126.6604	106538660
1	Hapmap48954-BTA-95284	126.6996	106596266
1	Hapmap39135-BTA-46239	126.7154	106619491
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1	ARS-BFGL-BAC-31718	127.9111	108174470	
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1	BTB-00049502	128.2699	108547611	
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1	BTA-120188-no-rs	128.4627	108748198	
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1	Hapmap44346-BTA-120193	128.6323	108900317	
1	Hapmap42098-BTA-120200	128.6822	108935413	
1	Hapmap32861-BTA-158968	128.7458	108980255	
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1	BTB-01961443	128.8201	109032560	
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1	ARS-BFGL-NGS-115228	129.7771	109706655
1	BTA-111239-no-rs	129.8382	109749666
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1	Hapmap40040-BTA-104644	130.2473	110037865
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1	ARS-BFGL-BAC-16136	130.9	110580221
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1	ARS-BFGL-BAC-16138	130.9545	110694748
1	BTB-01166773	131.0526	110720832
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1	ARS-BFGL-NGS-30422	132.2681	111636723
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1	Hapmap51663-BTA-94927	136.5679	115022208	
1	BTB-01457148	136.5767	115033039	
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1	BTA-90528-no-rs	138.2665	116710190	
1	Hapmap51239-BTA-48169	138.4743	116825697	
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1	BTB-01622929	139.1496	117345968	
1	Hapmap50370-BTA-48158	139.6	117521475	
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1	BTB-00051535	139.9	118072379	
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1	ARS-BFGL-NGS-13821	139.9	118127187	
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1	Hapmap39027-BTA-48208	139.9	118194724	
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1	ARS-BFGL-NGS-10545	139.9	118289543	
1	BTB-00051924	139.9	118374617	
1	Hapmap42953-BTA-48231	139.9	118532290	
1	Hapmap46705-BTA-49345	139.9136	118581426	
1	BTB-00052514	139.9377	118609659	
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1	Hapmap56538-rs29024657	140.0812	118777869	
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1	Hapmap48354-BTA-48238	140.1321	118837556	
1	BTB-00052307	140.1519	118860691	
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1	Hapmap54441-rs29025631	140.2053	118923333	
1	ARS-BFGL-NGS-103307	140.2555	118982145	
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1	BTB-01543375	140.3244	119062902	
1	BTB-01632443	140.3619	119106826	
1	Hapmap41567-BTA-52975	140.4642	119226741	
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1	ARS-BFGL-NGS-31534	140.5736	119355031	
1	Hapmap46305-BTA-53011	140.5898	119374036	
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1	BTB-01877866	140.6518	119446658	
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1	ARS-BFGL-NGS-91306	140.7443	119725960	
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1	BTB-00053634	141.0493	120732249
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1	Hapmap59251-rs29020792	141.0629	121039462
1	BTA-49368-no-rs	141.0653	121093829
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1	Hapmap51836-BTA-49378	141.1132	122175425
1	BTB-00054360	141.1174	122271495
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1	BTA-49389-no-rs	141.1264	122474911
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1	ARS-BFGL-NGS-7472	141.1458	122911380
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1	BTA-86287-no-rs	141.1497	123000922
1	Hapmap59501-rs29020824	141.1511	123032224
1	ARS-BFGL-NGS-15972	141.1555	123130845
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1	BTA-22056-no-rs	141.2048	124246283		
1	Hapmap31516-BTA-161480	141.2124	124416832		
1	BTA-22049-no-rs	141.2145	124464855		
1	BTA-114011-no-rs	141.2175	124531404		
1	Hapmap25115-BTA-50291	141.2207	124603853		
1	Hapmap50904-BTA-17187	141.2246	124692274		
1	BTB-00056059	141.2287	124785274		
1	Hapmap50245-BTA-117044	141.2315	124848249		
1	Hapmap45144-BTA-100450	141.2366	124963428		
1	Hapmap26724-BTA-152272	141.2386	125007936		
1	Hapmap53239-rs29021205	141.2398	125036511		
1	BTB-01404545	141.2441	125132039		
1	BTB-01404702	141.2466	125188443		
1	BTB-01404845	141.2487	125237780		
1	BTB-01405008	141.2499	125264530		
1	BTA-97832-no-rs	141.2508	125283942		
1	Hapmap54815-rs29020074	141.2537	125350385		
1	ARS-BFGL-NGS-8991	141.2553	125385615		
1	ARS-BFGL-NGS-63031	141.2562	125406903		
1	Hapmap50536-BTA-99808	141.2666	125641702		
1	ARS-BFGL-NGS-111513	141.2703	125725305		
1	BTB-01369713	141.28	125943303		
1	BTB-01369884	141.2837	126027422		
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1	ARS-BFGL-NGS-89910	141.2877	126118941		
1	BTB-01615126	141.2888	126142305		
1	Hapmap47487-BTA-107875	141.2913	126199422		
1	Hapmap41768-BTA-120174	141.2989	126371748		
1	ARS-BFGL-NGS-107861	141.3017	126434398		
1	BTB-00060880	141.3056	126523428		
1	BTB-00060751	141.3068	126549908		
1	ARS-BFGL-NGS-98257	141.3076	126567481		
1	ARS-BFGL-NGS-113021	141.3093	126606801		
1	ARS-BFGL-NGS-25639	141.3113	126651501		
1	ARS-BFGL-NGS-100109	141.3126	126680933		
1	Hapmap48368-BTA-50297	141.3199	126846004		
1	ARS-BFGL-BAC-7227	141.3237	126931293		
1	ARS-BFGL-NGS-27011	141.3317	127112983		
1	BTA-50361-no-rs	141.3341	127166834		
1	BTB-00057802	141.3351	127188303		
1	BTB-01935567	141.3359	127206157		
1	BTA-27135-no-rs	141.3369	127229379		
1	Hapmap52333-rs29027485	141.3395	127288890		
1	BTB-00057862	141.3408	127317180		
1	BTB-01472166	141.3426	127358003		
1	Hapmap51248-BTA-51337	141.3434	127377010		
1	ARS-USMARC-Parent-AY761135-rs29003723	141.3456	127426647		
1	ARS-BFGL-NGS-55389	141.3458	127429635		
1	BTA-96197-no-rs	141.3471	127458995		

1	BTB-00056151	141.3485	127491286
1	Hapmap50377-BTA-50302	141.3497	127518399
1	BTB-00056188	141.3509	127546305
1	BTA-50305-no-rs	141.3519	127568464
1	BTB-00056214	141.3529	127591192
1	BTB-00056233	141.354	127615037
1	ARS-BFGL-BAC-15540	141.357	127682661
1	ARS-BFGL-NGS-115304	141.3616	127787580
1	BTB-01663737	141.364	127841330
1	ARS-BFGL-NGS-9109	141.3677	127926080
1	Hapmap48790-BTA-50319	141.3693	127961597
1	ARS-BFGL-NGS-105585	141.3709	127998001
1	ARS-BFGL-NGS-115547	141.3724	128031876
1	ARS-BFGL-BAC-16161	141.3751	128092950
1	Hapmap42138-BTA-21868	141.3762	128117807
1	ARS-BFGL-NGS-92777	141.3852	128320901
1	BTB-00056583	141.3875	128372905
1	BTB-00056613	141.3886	128398119
1	ARS-BFGL-NGS-34197	141.3896	128420783
1	ARS-BFGL-NGS-111607	141.3908	128447062
1	ARS-BFGL-NGS-118073	141.3919	128471733
1	ARS-BFGL-NGS-118749	141.394	128518666
1	ARS-BFGL-NGS-42035	141.3967	128581140
1	ARS-BFGL-NGS-61598	141.3979	128608115
1	ARS-BFGL-NGS-86926	141.3992	128637028
1	ARS-BFGL-NGS-411	141.4021	128702093
1	BTB-00056939	141.4034	128731809
1	Hapmap49636-BTA-50341	141.4044	128755717
1	BTA-01811-rs29012765	141.4054	128776905
1	ARS-BFGL-NGS-36975	141.4064	128799966
1	ARS-BFGL-NGS-1224	141.4083	128843110
1	ARS-BFGL-NGS-82206	141.4093	128864268
1	BTA-50347-no-rs	141.4103	128887823
1	ARS-BFGL-NGS-104657	141.4112	128908587
1	ARS-BFGL-NGS-31046	141.4136	128962989
1	BTB-00057251	141.4156	129007020
1	ARS-BFGL-NGS-116868	141.4174	129049315
1	ARS-BFGL-NGS-57577	141.4186	129076257
1	ARS-BFGL-NGS-24528	141.4198	129101492
1	ARS-BFGL-NGS-99827	141.4208	129125371
1	BTB-00057662	141.4218	129146622
1	BTB-02067404	141.4228	129170050
1	ARS-BFGL-NGS-110636	141.4233	129181008
1	BTA-49421-no-rs	141.4255	129230649
1	BTB-00055174	141.4288	129305266
1	ARS-BFGL-NGS-14969	141.4303	129339868
1	BTA-49441-no-rs	141.4315	129366353
1	ARS-BFGL-NGS-116542	141.4325	129388513
1	BTB-00055549	141.4341	129424205
1	ARS-BFGL-NGS-64270	141.4376	129505485
1	ARS-BFGL-NGS-40583	141.4429	129625019
1	ARS-BFGL-NGS-31421	141.4439	129646287
1	ARS-BFGL-NGS-80200	141.4454	129680892
1	Hapmap58543-rs29022778	141.4469	129714829
1	ARS-BFGL-NGS-33537	141.4496	129774934
1	ARS-BFGL-NGS-116159	141.4507	129801503
1	ARS-BFGL-NGS-96173	141.4521	129833191
1	Hapmap41763-BTA-117901	141.4554	129906440
1	BTB-01744858	141.457	129942985

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1	Hapmap35473-SCAFFOLD317442_12259	141.4597		130004188
1	BTA-91136-no-rs	141.461	130032478	
1	ARS-BFGL-BAC-13551	141.4633	130084788	
1	ARS-BFGL-NGS-35670	141.4645	130112755	
1	Hapmap42453-BTA-122047	141.467	130168696	
1	BTB-01662109	141.4691	130217213	
1	Hapmap35746-SCAFFOLD181011_3284	141.4736		130316816
1	Hapmap47449-BTA-96490	141.475	130349916	
1	BTB-01476933	141.4764	130381286	
1	ARS-BFGL-NGS-35567	141.4779	130414598	
1	ARS-BFGL-NGS-97304	141.48	130461972	
1	ARS-BFGL-NGS-5193	141.4812	130489300	
1	ARS-BFGL-NGS-18962	141.4825	130517998	
1	ARS-BFGL-NGS-74871	141.4855	130586554	
1	ARS-BFGL-NGS-112867	141.4868	130616566	
1	Hapmap39275-BTA-51342	141.4899	130684886	
1	Hapmap52157-rs29019405	141.4921	130736547	
1	ARS-BFGL-NGS-60325	141.4982	130874607	
1	ARS-BFGL-NGS-54586	141.5022	130964390	
1	ARS-BFGL-NGS-972	141.5031	130984703	
1	ARS-BFGL-NGS-29033	141.5059	131047864	
1	ARS-BFGL-NGS-44711	141.5087	131111445	
1	ARS-BFGL-NGS-6392	141.5139	131227520	
1	ARS-BFGL-NGS-56582	141.5154	131261969	
1	BTB-00058404	141.5163	131282768	
1	ARS-BFGL-NGS-117553	141.5183	131326810	
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1	BTA-53040-no-rs	141.5225	131423039	
1	ARS-BFGL-BAC-5990	141.5243	131463730	
1	ARS-BFGL-NGS-111760	141.526	131501278	
1	BTB-00058659	141.5274	131533041	
1	BTA-51376-no-rs	141.5295	131580342	
1	BTB-00058727	141.5322	131642361	
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1	BTB-00059126	141.5371	131751589	
1	BTB-00059171	141.538	131772899	
1	ARS-BFGL-NGS-107359	141.5385	131785094	
1	ARS-BFGL-NGS-56103	141.5395	131806595	
1	ARS-BFGL-NGS-26489	141.5421	131865531	
1	ARS-BFGL-NGS-37759	141.5439	131906267	
1	Hapmap54420-rs29021652	141.5472	131979848	
1	Hapmap50014-BTA-51389	141.5486	132011695	
1	BTB-00059412	141.5511	132069357	
1	ARS-BFGL-NGS-10455	141.553	132112092	
1	ARS-BFGL-NGS-82386	141.5561	132182348	
1	ARS-BFGL-NGS-98442	141.5575	132213890	
1	Hapmap51604-BTA-51399	141.5587	132240437	
1	ARS-BFGL-NGS-14657	141.5619	132312674	
1	Hapmap48798-BTA-51401	141.5653	132388576	
1	ARS-BFGL-NGS-102045	141.5668	132422506	
1	ARS-BFGL-NGS-97163	141.5677	132444602	
1	ARS-BFGL-NGS-37095	141.5701	132497074	
1	BTA-51403-no-rs	141.571	132518716	
1	ARS-BFGL-BAC-693	141.5727	132555764	
1	ARS-BFGL-NGS-15866	141.5742	132591352	
1	BTA-53359-no-rs	141.5767	132647596	
1	ARS-BFGL-NGS-1834	141.5789	132696696	

1	Hapmap38506-BTA-52316	141.5801	132723503	
1	ARS-BFGL-NGS-79259	141.5821	132768483	
1	Hapmap35028-BES2_Contig431_1271		141.5872	132883951
1	BTA-02520-rs29010074	141.5877	132896318	
1	ARS-BFGL-NGS-112530	141.5897	132940546	
1	ARS-BFGL-BAC-11042	141.5916	132983082	
1	BTB-00059569	141.5936	133027725	
1	ARS-BFGL-NGS-54128	141.5945	133049058	
1	ARS-BFGL-NGS-30324	141.5963	133090678	
1	BTB-00059627	141.5974	133113456	
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1	ARS-BFGL-NGS-44780	141.6004	133183163	
1	ARS-BFGL-NGS-104132	141.604	133264196	
1	ARS-BFGL-NGS-68753	141.605	133286041	
1	BTB-00061242	141.6067	133323967	
1	Hapmap45405-BTA-111896	141.6113	133428858	
1	BTB-00061316	141.6142	133494241	
1	BTB-02025691	141.6171	133559426	
1	BTB-01287574	141.6221	133671941	
1	Hapmap42863-BTA-17899	141.6237	133707945	
1	BTB-01215047	141.6257	133753152	
1	BTB-01215066	141.6268	133778116	
1	BTB-01215096	141.6286	133818841	
1	BTB-01963898	141.6338	133936071	
1	BTB-00061551	141.6348	133958910	
1	ARS-BFGL-BAC-11057	141.638	134030804	
1	ARS-BFGL-NGS-115064	141.6397	134069561	
1	ARS-BFGL-NGS-26880	141.6406	134090244	
1	Hapmap24138-BTA-124742	141.6421	134124559	
1	BTA-53322-no-rs	141.644	134168204	
1	Hapmap29089-BTA-99541	141.6534	134378569	
1	BTB-01641095	141.6573	134467319	
1	ARS-BFGL-NGS-100206	141.6587	134500353	
1	Hapmap45933-BTA-53323	141.66	134528341	
1	Hapmap39319-BTA-25543	141.6629	134593499	
1	ARS-BFGL-NGS-40314	141.6641	134622487	
1	BTB-01789695	141.665	134641261	
1	BTB-01789715	141.6661	134666688	
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1	ARS-BFGL-NGS-3162	141.6724	134808305	
1	BTB-00062018	141.6737	134838651	
1	BTB-00062051	141.6747	134862036	
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1	ARS-BFGL-BAC-11680	141.6772	134918415	
1	ARS-BFGL-NGS-35508	141.6821	135028845	
1	ARS-BFGL-NGS-108336	141.6831	135050488	
1	Hapmap35582-SCAFFOLD40562_2432		141.6869	135136476
1	ARS-BFGL-NGS-106616	141.6895	135194234	
1	ARS-BFGL-NGS-34641	141.6911	135232682	
1	BTB-00062715	141.6928	135269426	
1	ARS-BFGL-NGS-114679	141.6938	135291628	
1	ARS-BFGL-NGS-78666	141.6971	135366450	
1	ARS-BFGL-NGS-2595	141.7005	135444745	
1	ARS-BFGL-NGS-106296	141.7017	135470382	
1	ARS-BFGL-NGS-105305	141.7026	135491887	
1	ARS-BFGL-NGS-101030	141.7043	135530772	
1	ARS-BFGL-NGS-30809	141.7066	135580651	
1	BTB-01355084	141.7075	135602002	
1	Hapmap38056-BTA-122829	141.709	135635073	



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1	Hapmap48385-BTA-54303	141.7189	135860489	
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1	ARS-BFGL-NGS-113807	141.7264	136029972	
1	ARS-BFGL-NGS-99025	141.7308	136127682	
1	ARS-BFGL-NGS-2473	141.7318	136150358	
1	ARS-BFGL-BAC-11687	141.7344	136210358	
1	BTA-53370-no-rs	141.736	136246247	
1	BTA-53368-no-rs	141.7374	136278098	
1	Hapmap51252-BTA-53367	141.7417	136375095	
1	ARS-BFGL-NGS-98138	141.7448	136443961	
1	ARS-BFGL-NGS-11236	141.7462	136476195	
1	ARS-BFGL-NGS-12806	141.7518	136603695	
1	ARS-BFGL-NGS-107390	141.7527	136623809	
1	ARS-BFGL-NGS-107707	141.7565	136709558	
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1	ARS-BFGL-NGS-27844	141.7592	136770555	
1	ARS-BFGL-NGS-93090	141.7605	136798461	
1	ARS-BFGL-NGS-103751	141.762	136832697	
1	BTB-00040439	141.7636	136868487	
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1	ARS-BFGL-NGS-119153	141.7692	136996471	
1	ARS-BFGL-NGS-91055	141.7709	137033675	
1	ARS-BFGL-NGS-10246	141.7729	137080380	
1	ARS-BFGL-NGS-37290	141.7751	137129006	
1	BTB-00039698	141.7769	137170300	
1	ARS-BFGL-NGS-60475	141.7792	137221989	
1	BTA-40533-no-rs	141.7808	137257246	
1	BTA-120764-no-rs	141.782	137284174	
1	BTB-00039553	141.7836	137322138	
1	ARS-BFGL-NGS-68966	141.7846	137344809	
1	Hapmap52330-rs29021130	141.7867	137391425	
1	ARS-BFGL-NGS-112400	141.7882	137426143	
1	ARS-BFGL-BAC-14872	141.7901	137467169	
1	ARS-BFGL-BAC-14873	141.7915	137500339	
1	ARS-BFGL-NGS-116855	141.7927	137526694	
1	Hapmap41179-BTA-120763	141.7945	137567928	
1	Hapmap42704-BTA-84999	141.7981	137648990	
1	BTB-00406913	141.8057	137821564	
1	Hapmap55182-rs29024603	141.8199	138142367	
1	Hapmap34056-BES2_Contig421_810	141.8215	138178130	
1	ARS-BFGL-NGS-60119	141.8244	138243679	
1	BTB-00064766	141.8283	138330470	
1	ARS-BFGL-BAC-5529	141.8297	138362306	
1	ARS-BFGL-NGS-78397	141.8312	138395988	
1	ARS-BFGL-NGS-42512	141.8337	138452988	
1	ARS-BFGL-NGS-1001	141.8352	138487358	
1	Hapmap48589-BTA-107619	141.837	138528244	
1	ARS-BFGL-NGS-2076	141.8393	138579674	
1	ARS-USMARC-Parent-AY943841-rs17871566	141.8395	138583183	
1	ARS-BFGL-NGS-20387	141.8407	138612242	
1	ARS-BFGL-NGS-29472	141.8424	138650000	
1	Hapmap20495-rs29024564	141.8443	138692649	
1	BTA-39380-no-rs	141.8452	138713450	
1	ARS-BFGL-NGS-116700	141.8466	138745244	
1	BTB-00076647	141.8474	138762745	

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1	ARS-BFGL-NGS-27857	141.8498	138816095
1	ARS-BFGL-NGS-76451	141.8547	138927511
1	BTB-01773077	141.8564	138966885
1	BTB-01773000	141.8576	138993085
1	BTB-01777620	141.8621	139094903
1	BTB-01305420	141.864	139136407
1	ARS-BFGL-NGS-106059	141.8656	139173490
1	BTB-01305472	141.8667	139199233
1	BTA-122684-no-rs	141.8681	139231307
1	ARS-BFGL-NGS-103518	141.8703	139280415
1	BTB-01305554	141.8727	139334259
1	ARS-BFGL-NGS-13725	141.8748	139381706
1	ARS-BFGL-NGS-105560	141.8778	139450331
1	Hapmap49908-BTA-20502	141.8789	139473241
1	Hapmap47123-BTA-85678	141.8798	139495537
1	BTB-00126668	141.8811	139524491
1	BTA-67523-no-rs	141.8825	139556422
1	ARS-BFGL-NGS-117937	141.8891	139703463
1	BTA-100315-no-rs	141.8927	139787079
1	ARS-BFGL-NGS-110299	141.8944	139824926
1	Hapmap54009-rs29018701	141.8975	139894477
1	ARS-BFGL-NGS-4637	141.9013	139979761
1	ARS-BFGL-NGS-82122	141.9022	140000659
1	ARS-BFGL-NGS-113313	141.9036	140031898
1	ARS-BFGL-NGS-107473	141.9064	140095576
1	ARS-BFGL-NGS-76160	141.9075	140120689
1	UA-IFASA-3942	141.9088	140149026
1	ARS-BFGL-NGS-115827	141.9126	140236036
1	BTB-00070923	141.9144	140276805
1	BTB-00070861	141.9155	140302093
1	BTA-57342-no-rs	141.9183	140364786
1	BTB-00070740	141.92	140401992
1	Hapmap41906-BTA-57339	141.9233	140476945
1	ARS-BFGL-NGS-73455	141.9254	140524195
1	ARS-BFGL-NGS-13638	141.9274	140569637
1	Hapmap40074-BTA-54364	141.9286	140596472
1	ARS-BFGL-NGS-14502	141.9325	140685557
1	ARS-BFGL-NGS-104662	141.9344	140726958
1	Hapmap51743-BTA-54330	141.9391	140835240
1	ARS-BFGL-NGS-52663	141.9407	140870490
1	Hapmap41748-BTA-108916	141.9429	140920366
1	ARS-BFGL-NGS-31585	141.9445	140956576
1	BTB-01839901	141.9463	140996730
1	ARS-BFGL-NGS-111417	141.9556	141205936
1	BTB-00067270	141.962	141351312
1	ARS-BFGL-NGS-118700	141.964	141396322
1	Hapmap41574-BTA-54365	141.9668	141460090
1	UA-IFASA-4369	141.9699	141531071
1	Hapmap44198-BTA-113973	141.9729	141597189
1	Hapmap39005-BTA-113964	141.9753	141652167
1	ARS-BFGL-NGS-91441	141.977	141691093
1	ARS-BFGL-NGS-22768	141.978	141713896
1	BTB-01225777	141.9791	141738871
1	ARS-BFGL-NGS-106484	141.9804	141767788
1	ARS-BFGL-NGS-44907	141.9822	141807977
1	ARS-BFGL-NGS-114203	141.9865	141903958
1	BTB-00067063	141.9874	141926248
1	UA-IFASA-3744	141.9885	141950092

1	BTB-01951526	141.9914	142015313
1	BTB-01955138	141.9925	142041527
1	BTB-01844108	141.9939	142071725
1	ARS-BFGL-NGS-104338	141.9949	142094979
1	ARS-BFGL-NGS-39171	141.9984	142172755
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1	ARS-BFGL-NGS-118672	142.0038	142296642
1	Hapmap48127-BTA-93939	142.0071	142370512
1	ARS-BFGL-NGS-62175	142.0085	142401535
1	BTB-01710763	142.0105	142446153
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1	ARS-BFGL-NGS-109107	142.0149	142547327
1	BTB-00066611	142.017	142595255
1	BTB-00066658	142.018	142616678
1	ARS-BFGL-NGS-111487	142.0212	142688794
1	ARS-BFGL-NGS-32191	142.0222	142711701
1	BTA-55383-no-rs	142.0255	142786992
1	Hapmap40443-BTA-55393	142.0288	142861361
1	Hapmap47658-BTA-55394	142.03	142888903
1	ARS-BFGL-NGS-112657	142.0331	142958416
1	ARS-BFGL-NGS-10924	142.0398	143109768
1	ARS-BFGL-NGS-34751	142.041	143136809
1	ARS-BFGL-NGS-114130	142.0443	143211930
1	Hapmap42587-BTA-56345	142.046	143249389
1	ARS-BFGL-NGS-31728	142.0479	143291643
1	UA-IFASA-2306	142.0509	143359127
1	ARS-BFGL-NGS-29228	142.0518	143379850
1	ARS-BFGL-NGS-57723	142.0533	143413848
1	ARS-BFGL-NGS-104426	142.056	143474642
1	ARS-BFGL-NGS-2621	142.0582	143524601
1	ARS-BFGL-BAC-15516	142.0601	143567931
1	ARS-BFGL-NGS-105531	142.0622	143615536
1	Hapmap49657-BTA-55361	142.0647	143670630
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1	ARS-BFGL-NGS-44300	142.0678	143741734
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1	ARS-BFGL-NGS-110098	142.0718	143831554
1	ARS-BFGL-NGS-115887	142.0735	143871665
1	ARS-BFGL-NGS-104259	142.0756	143917657
1	BTB-00067759	142.0787	143988123
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1	ARS-BFGL-NGS-32029	142.088	144198500
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1	ARS-BFGL-NGS-106123	142.09	144411032
1	ARS-BFGL-NGS-68058	142.09	144438520
1	BTB-00977334	142.09	144524860
1	ARS-BFGL-NGS-117505	142.09	144551980
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1	ARS-BFGL-NGS-20055	142.09	144655943
1	BTA-64849-no-rs	142.09	144683245
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1	ARS-BFGL-NGS-103161	142.09	144733397

1	ARS-BFGL-NGS-82590	142.09	144758824
1	ARS-BFGL-NGS-40393	142.09	144797574
1	Hapmap38514-BTA-63523	142.09	144951932
1	ARS-BFGL-NGS-17766	142.09	144972015
1	ARS-BFGL-NGS-96151	142.09	145009246
1	Hapmap57299-ss46527085	142.09	145059132
1	ARS-BFGL-NGS-33058	142.09	145165549
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1	ARS-BFGL-NGS-100302	142.09	145971743
1	BTB-01660659	142.09	145986598
1	ARS-BFGL-NGS-105691	142.09	146011363
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1	ARS-BFGL-NGS-41123	142.09	146059099
1	ARS-BFGL-NGS-4848	142.09	146131914
1	ARS-BFGL-NGS-111111	142.1553	146302724
1	ARS-BFGL-NGS-109493	142.2226	146354654
1	BTA-56389-no-rs	142.2612	146384457
1	Hapmap45294-BTA-56387	142.2905	146407055
1	ARS-BFGL-NGS-108391	142.3532	146455377
1	ARS-BFGL-NGS-111191	142.401	146492260
1	Hapmap54522-ss46526129	142.4387	146521361
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1	ARS-BFGL-NGS-105044	142.5822	146632014
1	ARS-BFGL-NGS-103649	142.6418	146677989
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1	ARS-BFGL-NGS-87570	142.7882	146790949
1	ARS-BFGL-NGS-13121	142.844	146833973
1	ARS-BFGL-NGS-31102	142.8811	146862570
1	BTB-01598310	142.9265	146897615
1	Hapmap47823-BTA-106742	142.9552	146919708
1	ARS-BFGL-NGS-26133	142.9815	146940031
1	ARS-BFGL-NGS-113680	143.0193	146969169
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1	BTA-19847-no-rs	143.1586	147076679
1	ARS-BFGL-NGS-5057	143.2162	147121098
1	ARS-BFGL-NGS-78784	143.2429	147141657
1	Hapmap46782-BTA-19874	143.2866	147175381
1	BTB-01301015	143.3905	147255491
1	Hapmap39197-BTA-23280	143.4666	147314194
1	ARS-BFGL-NGS-13206	143.4939	147335277
1	ARS-BFGL-NGS-103851	143.5246	147358989
1	ARS-BFGL-NGS-29750	143.556	147383154
1	ARS-BFGL-NGS-65139	143.6055	147421398
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1	ARS-BFGL-NGS-5368	143.7129	147504216
1	ARS-BFGL-NGS-69609	143.7426	147527101
1	Hapmap47854-BTA-119090	143.7736	147550991
1	ARS-BFGL-NGS-43565	143.7812	147556901
1	ARS-BFGL-NGS-26772	143.815	147582980
1	ARS-BFGL-NGS-25873	143.8897	147640547
1	ARS-BFGL-NGS-13051	143.9317	147672973
1	ARS-BFGL-NGS-117882	144.0157	147737756
1	BTB-00043331	144.0797	147787147
1	ARS-BFGL-BAC-12960	144.1122	147812230
1	Hapmap45492-BTA-44298	144.1503	147841620
1	BTB-00043127	144.2052	147883938
1	ARS-BFGL-NGS-113002	144.2527	147920597
1	ARS-BFGL-NGS-8140	144.2985	147955914
1	BTB-01761180	144.3275	147978297
1	BTB-00043033	144.3685	148009894
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1	UA-IFASA-9633	144.4705	148088593
1	ARS-BFGL-NGS-21137	144.5162	148123790
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1	BTA-15272-no-rs	144.6618	148236131
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1	ARS-BFGL-NGS-102593	144.94	148893434
1	ARS-BFGL-NGS-1	144.94	148946228
1	ARS-BFGL-NGS-97531	144.94	148969868
1	ARS-BFGL-NGS-103594	144.94	149043397
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1	ARS-BFGL-NGS-105884	144.94	149123433
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1	BTB-00069838	144.94	149305906
1	BTB-00069749	144.94	149377013
1	BTB-00069681	144.94	149418667
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1	ARS-BFGL-NGS-7667	145.0082	149599085
1	ARS-BFGL-NGS-97757	145.3329	149746651
1	ARS-BFGL-NGS-95621	145.4903	149852840
1	ARS-BFGL-NGS-117639	145.5026	149868990
1	BTB-00070218	145.5274	149901682
1	Hapmap25017-BTA-124913	145.5789	149969397
1	ARS-BFGL-NGS-105124	145.6353	150043489
1	ARS-BFGL-NGS-5818	145.7097	150141293
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1	ARS-BFGL-NGS-110193	145.748	150191690
1	ARS-BFGL-NGS-104670	145.7663	150215815
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1	Hapmap57645-rs29027916	145.8786	150363389
1	ARS-BFGL-NGS-12786	145.9044	150397345
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1	ARS-BFGL-NGS-41125	146.3433	150974434	
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1	ARS-BFGL-NGS-70523	146.4583	151125563	
1	ARS-BFGL-NGS-57499	146.4745	151146817	
1	ARS-BFGL-NGS-116979	146.4997	151179972	
1	ARS-BFGL-NGS-16788	146.5294	151218987	
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1	Hapmap35832-SCAFFOLD197372_885	146.6286	151349514	
1	ARS-BFGL-NGS-16536	146.6511	151379106	
1	Hapmap46946-BTA-116432	146.7569	151518122	
1	ARS-BFGL-NGS-105623	146.7817	151550746	
1	ARS-BFGL-NGS-76122	146.8118	151590393	
1	BTB-01241144	146.8307	151615270	
1	Hapmap49466-BTA-116411	146.8529	151644431	
1	ARS-BFGL-NGS-112213	146.869	151665620	
1	ARS-BFGL-NGS-117060	146.8906	151693959	
1	BTA-116423-no-rs	146.923	151736540	
1	Hapmap48626-BTA-116429	146.9486	151770190	
1	Hapmap53709-rs29017440	146.9986	151835916	
1	Hapmap42082-BTA-116435	147.013	151858713	
1	BTA-120479-no-rs	147.0331	151909846	
1	Hapmap60790-rs29024220	147.0409	151929994	
1	ARS-BFGL-NGS-106675	147.0508	151955098	
1	BTA-16239-no-rs	147.065	151991418	
1	Hapmap43297-BTA-57357	147.1425	152189521	
1	BTB-00070977	147.1564	152225015	
1	BTA-57354-no-rs	147.1642	152245009	
1	Hapmap53066-rs29026782	147.212	152345820	
1	Hapmap41028-BTA-58260	147.2318	152377163	
1	Hapmap48211-BTA-120784	147.2541	152412536	
1	BTB-00071736	147.2676	152433936	
1	ARS-BFGL-NGS-110293	147.3156	152509935	
1	BTA-58262-no-rs	147.3346	152540010	
1	Hapmap48261-BTA-24663	147.3877	152592454	
1	ARS-BFGL-NGS-109294	147.4379	152638655	
1	ARS-BFGL-NGS-41812	147.476	152673753	
1	BTA-58265-no-rs	147.5101	152705187	
1	BTB-00071918	147.549	152740970	
1	Hapmap48393-BTA-58266	147.5836	152772804	
1	ARS-BFGL-NGS-22321	147.6472	152831377	
1	ARS-BFGL-NGS-16576	147.6684	152850837	
1	Hapmap56337-ss46526524	147.7112	152890257	
1	ARS-BFGL-NGS-102650	147.7589	152934177	
1	ARS-BFGL-NGS-77917	147.7949	152967323	
1	ARS-BFGL-NGS-45342	147.8491	153017273	
1	ARS-BFGL-NGS-11586	147.8799	153045653	
1	ARS-BFGL-NGS-98387	147.921	153083473	
1	ARS-BFGL-NGS-100423	148.0374	153190553	
1	Hapmap53097-rs29016261	148.1011	153249283	
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1	ARS-BFGL-NGS-4822	148.2549	153390895
1	ARS-BFGL-NGS-118847	148.2885	153421779
1	ARS-BFGL-NGS-98981	148.4359	153557524
1	BTA-103255-no-rs	148.4606	153580218
1	ARS-BFGL-NGS-18905	148.5083	153624165
1	ARS-BFGL-NGS-105231	148.5295	153643695
1	ARS-BFGL-NGS-45330	148.5826	153692517
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1	BTB-01008912	148.6693	153775818
1	BTB-01660026	148.7114	153817556
1	ARS-BFGL-NGS-115711	148.7365	153842441
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1	Hapmap44395-BTA-64864	148.8145	153919758
1	ARS-BFGL-NGS-114385	148.9781	154030956
1	ARS-BFGL-NGS-103669	149.0304	154061961
1	ARS-BFGL-NGS-4798	149.1103	154109345
1	ARS-BFGL-NGS-40247	149.1513	154133697
1	Hapmap38166-BTA-58293	149.1874	154155071
1	ARS-BFGL-NGS-78856	149.2391	154185740
1	ARS-BFGL-NGS-118315	149.3227	154235336
1	ARS-BFGL-NGS-73213	149.3716	154264329
1	ARS-BFGL-NGS-26782	149.4313	154299737
1	Hapmap23088-BTA-151194	149.5159	154349918
1	BTB-01486160	149.5627	154377666
1	BTB-01486242	149.6727	154442861
1	ARS-BFGL-NGS-61565	149.7806	154506866
1	BTA-97271-no-rs	149.8187	154529450
1	Hapmap38969-BTA-58311	149.9422	154602704
1	BTA-58309-no-rs	150.0017	154638002
1	ARS-BFGL-NGS-24242	150.1604	154732112
1	BTB-00073037	150.2007	154755981
1	ARS-BFGL-NGS-24636	150.3348	154835531
1	BTB-00072962	150.3711	154857059
1	ARS-BFGL-NGS-12744	150.4207	154886451
1	ARS-BFGL-NGS-22096	150.4902	154953112
1	ARS-BFGL-NGS-35476	150.5235	154989800
1	Hapmap57477-rs29022938	150.5784	155050151
1	ARS-BFGL-NGS-15024	150.6254	155101934
1	Hapmap39189-BTA-100013	150.6479	155126707
1	ARS-BFGL-NGS-30076	150.7004	155184442
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1	ARS-BFGL-NGS-61517	151.0756	155597212
1	Hapmap60257-rs29016165	151.1052	155629802
1	Hapmap55716-rs29015966	151.1272	155654021
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1	BTA-100095-no-rs	151.1921	155725361
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1	Hapmap46776-BTA-15316	151.5126	156070550
1	BTB-00074258	151.5579	156105357
1	BTB-00024024	151.8616	156294225
1	BTB-00024140	151.9244	156327032
1	ARS-BFGL-NGS-100310	151.9991	156366103
1	BTA-120733-no-rs	152.1615	156450970
1	BTA-120735-no-rs	152.2652	156505205
1	Hapmap54019-rs29023016	152.3294	156538750
1	BTB-00073892	152.3918	156571397
1	Hapmap59327-rs29016284	152.4443	156598837
1	BTB-01824186	152.5959	156678040
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1	Hapmap3051-BTA-15299	152.7853	156777075
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1	ARS-BFGL-NGS-2430	152.9317	156854530
1	BTB-00074122	153.0073	156900139
1	BTB-00382006	153.1625	156993660
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1	ARS-BFGL-NGS-36332	153.3802	157124942
1	ARS-BFGL-NGS-75385	153.4887	157176980
1	ARS-BFGL-NGS-39036	153.5578	157199658
1	Hapmap43186-BTA-15325	153.6794	157239611
1	BTB-00074914	153.7429	157260458
1	BTB-00074935	153.8156	157284336
1	Hapmap40402-BTA-15329	153.9491	157328169
1	ARS-BFGL-NGS-54653	154.0314	157355192
1	ARS-BFGL-BAC-16186	154.155	157395805
1	ARS-BFGL-NGS-5053	154.227	157419451
1	BTB-01633174	154.2896	157457269
1	Hapmap52737-rs29021682	154.3468	157579130
1	ARS-BFGL-NGS-78277	154.3657	157619384
1	BTB-00075551	154.3953	157682341
1	ARS-BFGL-NGS-12147	154.4147	157723699
1	BTB-00075380	154.4256	157746878
1	BTA-15354-no-rs	154.442	157781897
1	ARS-BFGL-NGS-108970	154.455	157809496
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1	Hapmap51199-BTA-27719	154.4839	157871181
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1	BTA-15355-no-rs	154.5918	157970916
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1	BTB-00076466	155.454	158161585
1	ARS-BFGL-NGS-85061	155.7599	158229218
2	ARS-BFGL-NGS-102158	1.782265	35126
2	BTB-01789851	1.95	189886
2	BTB-00077301	1.997874	238962
2	Hapmap32829-BTA-147228	2.032297	263273
2	ARS-BFGL-NGS-11180	2.150389	346673
2	BTA-109914-no-rs	2.435152	547782
2	BTB-01204098	2.477795	577898
2	ARS-BFGL-NGS-5376	2.520924	608357



2	BTB-01204067	2.553139	631108
2	Hapmap23466-BTA-155656	2.644433	695583
2	ARS-BFGL-NGS-55528	2.717896	747465
2	Hapmap41152-BTA-109926	2.770637	784712
2	ARS-BFGL-NGS-74920	2.831401	827626
2	Hapmap52514-rs29024554	2.939636	904065
2	ARS-BFGL-BAC-44757	2.976484	930360
2	ARS-BFGL-NGS-16717	3.030217	970561
2	Hapmap55208-ss46526613	3.061949	994302
2	ARS-BFGL-NGS-117794	3.122807	1039834
2	UA-IFASA-5944	3.159009	1066919
2	BTA-10744-no-rs	3.191639	1091332
2	ARS-BFGL-NGS-118760	3.219709	1112333
2	BTB-00077456	3.289109	1164256
2	BTB-00077399	3.316952	1185087
2	ARS-BFGL-NGS-6050	3.358406	1216101
2	BTB-00077286	3.400288	1247436
2	ARS-BFGL-NGS-55090	3.435092	1273475
2	ARS-BFGL-NGS-39059	3.491944	1316010
2	BTB-01710358	3.525781	1341326
2	Hapmap58923-rs29010138	3.55962	1366643
2	ARS-BFGL-NGS-27330	3.612242	1406013
2	ARS-BFGL-NGS-118297	3.694392	1467475
2	BTA-105370-no-rs	3.726354	1491388
2	ARS-BFGL-NGS-31985	3.770663	1524538
2	BTB-00077049	3.995805	1692982
2	ARS-BFGL-NGS-60387	4.132168	1795004
2	BTA-48265-no-rs	4.174047	1826336
2	Hapmap41656-BTA-82957	4.227045	1865988
2	ARS-BFGL-NGS-18261	4.267263	1896078
2	ARS-BFGL-NGS-108007	4.307448	1926143
2	ARS-BFGL-NGS-115117	4.38237	1982197
2	ARS-BFGL-BAC-35148	4.463768	2043096
2	ARS-BFGL-NGS-104760	4.923322	2254298
2	ARS-BFGL-NGS-113652	5.040309	2303356
2	ARS-BFGL-NGS-23733	5.111961	2333403
2	ARS-BFGL-NGS-74769	5.307642	2415461
2	ARS-BFGL-NGS-110437	5.995879	2704070
2	Hapmap43973-BTA-93569	6.258868	2814353
2	ARS-BFGL-NGS-103086	6.363992	2858436
2	ARS-BFGL-NGS-113403	6.569111	2944452
2	ARS-BFGL-NGS-40516	6.622597	2966881
2	ARS-BFGL-NGS-118313	6.811489	3046092
2	ARS-BFGL-NGS-36537	7.064018	3151989
2	ARS-BFGL-NGS-67261	7.113873	3172895
2	ARS-BFGL-NGS-53839	7.172943	3197666
2	ARS-BFGL-NGS-60640	7.279182	3242217
2	ARS-BFGL-BAC-42496	7.67405	3407803
2	ARS-BFGL-NGS-58709	7.740983	3435871
2	Hapmap40838-BTA-92488	7.961666	3528413
2	ARS-BFGL-NGS-61983	8.246839	3647999
2	ARS-BFGL-NGS-46839	8.30714	3673286
2	ARS-BFGL-NGS-34236	8.380864	3704202
2	Hapmap48616-BTA-112393	8.527702	3765778
2	ARS-BFGL-NGS-15763	8.593913	3793543
2	ARS-BFGL-NGS-100540	8.657459	3820191
2	ARS-BFGL-NGS-22543	8.753295	3860379
2	ARS-BFGL-NGS-102353	8.848209	3900181
2	ARS-BFGL-NGS-63030	8.968904	3950794

2	ARS-BFGL-NGS-59921	9.044821	3982629	
2	Hapmap43083-BTA-86781	9.222488	4057133	
2	Hapmap49024-BTA-112388	9.294004	4087123	
2	ARS-BFGL-NGS-112731	9.38434	4125005	
2	ARS-BFGL-NGS-4063	9.481813	4165880	
2	ARS-BFGL-NGS-92825	9.566816	4201525	
2	Hapmap50886-BTA-121204	9.655828	4238852	
2	Hapmap34854-BES4_Contig206_568	9.782461	4291955	
2	BTB-00078030	10.0909	4421299	
2	BTB-00077963	10.18416	4460405	
2	BTB-01790271	10.3835	4543996	
2	Hapmap53000-ss46526222	10.43507	4565625	
2	BTB-00077801	10.48653	4587203	
2	BTB-01739851	10.63678	4650209	
2	Hapmap40228-BTA-88147	10.67314	4720583	
2	ARS-BFGL-NGS-43499	10.7644	4758063	
2	BTB-00078999	10.81563	4779103	
2	BTB-00079042	10.98522	4848753	
2	ARS-BFGL-NGS-17759	11.06924	4883261	
2	ARS-BFGL-NGS-12749	11.16241	4921527	
2	BTA-47785-no-rs	11.25149	4958110	
2	ARS-BFGL-NGS-6152	11.30438	4979830	
2	BTA-97386-no-rs	11.39082	5015333	
2	Hapmap54320-rs29012920	11.44569	5037866	
2	ARS-BFGL-NGS-24135	11.82396	5193223	
2	ARS-BFGL-NGS-24537	12.02678	5276521	
2	ARS-BFGL-NGS-21306	12.0966	5305197	
2	ARS-USMARC-Parent-DQ404152-rs29022245	12.1006	5306838	
2	ARS-BFGL-NGS-2658	12.25441	5370008	
2	Hapmap57611-rs29021061	12.48416	5464367	
2	ARS-BFGL-NGS-101125	12.66194	5537379	
2	ARS-BFGL-NGS-106761	12.81787	5601419	
2	Hapmap44381-BTA-47399	12.91251	5640288	
2	Hapmap54109-rs29011261	12.96997	5663889	
2	ARS-BFGL-NGS-39978	13.19755	5757355	
2	ARS-BFGL-BAC-2619	13.25333	5780265	
2	ARS-BFGL-BAC-28567	13.30805	5802738	
2	ARS-BFGL-BAC-2576	13.35755	5823066	
2	ARS-BFGL-NGS-6033	13.40866	5844056	
2	ARS-BFGL-NGS-93854	13.49074	5877768	
2	Hapmap52624-rs29010906	13.90329	6047203	
2	ARS-BFGL-NGS-100748	13.96797	6073765	
2	ARS-BFGL-NGS-4516	14.15692	6151365	
2	ARS-BFGL-NGS-17147	14.23426	6183129	
2	ARS-BFGL-NGS-15417	15.19	6645590	
2	ARS-BFGL-NGS-112454	15.19	6675045	
2	Hapmap49624-BTA-47893	15.19826	6700805	
2	ARS-BFGL-NGS-11319	15.42814	6763227	
2	Hapmap54028-rs29023584	15.53642	6792631	
2	Hapmap47560-BTA-30470	15.68124	6831955	
2	ARS-BFGL-NGS-81865	16.47125	7046478	
2	Hapmap52728-rs29018577	16.61718	7086105	
2	BTA-47483-no-rs	16.76348	7125831	
2	ARS-BFGL-NGS-90839	16.92542	7169804	
2	ARS-BFGL-NGS-59102	17.2159	7248683	
2	Hapmap53965-rs29017456	17.29483	7270116	
2	Hapmap60397-ss46527095	17.48557	7321910	
2	ARS-BFGL-NGS-52961	17.9842	7457310	
2	BTB-00078691	18.11278	7492224	

2	BTB-01977132	18.21584	7520210
2	ARS-BFGL-BAC-2817	18.3702	7562127
2	BTA-47624-no-rs	18.51468	7601358
2	ARS-BFGL-NGS-110677	18.6939	7650023
2	BTB-00078927	18.79214	7676702
2	BTA-85707-no-rs	18.95273	7720309
2	BTA-27415-no-rs	19.06793	7751590
2	BTB-01717869	19.13254	7772897
2	UA-IFASA-9562	19.1904	7798268
2	Hapmap38635-BTA-85702	19.40459	7892193
2	ARS-BFGL-NGS-1661	19.65552	8000159
2	Hapmap41991-BTA-85694	19.73893	8025628
2	BTB-01111066	20	8118578
2	BTB-01110991	20.04724	8153715
2	BTB-01929922	20.22255	8188132
2	BTB-01929933	20.3462	8212407
2	Hapmap51331-BTA-85692	20.65318	8272673
2	BTB-01435656	20.82161	8305740
2	ARS-BFGL-NGS-37283	20.99688	8340148
2	BTB-01435557	21.10459	8361295
2	Hapmap40313-BTA-27938	21.45717	8430514
2	BTB-00079213	21.69383	8476975
2	ARS-BFGL-NGS-35384	22.51006	8637217
2	ARS-BFGL-NGS-11560	22.73	8736092
2	BTA-87378-no-rs	22.80719	8833394
2	BTB-00862033	22.87812	8884527
2	BTB-00862061	22.94584	8933349
2	BTB-02094616	22.97725	8955989
2	BTB-00079285	23.01033	8979837
2	BTB-00079297	23.04324	9003563
2	Hapmap43273-BTA-47993	23.09479	9040720
2	BTB-00079257	23.19556	9113368
2	BTB-00079368	23.26481	9163293
2	ARS-BFGL-NGS-111530	23.31021	9202511
2	Hapmap55212-rs29013415	23.31154	9245063
2	BTB-00079476	23.31362	9311143
2	BTB-01282688	23.31618	9392865
2	BTB-02016659	23.31728	9427890
2	BTB-00079551	23.31811	9454144
2	Hapmap38411-BTA-48376	23.31954	9499870
2	Hapmap23397-BTA-133598	23.36163	9521997
2	Hapmap49896-BTA-17263	23.58001	9561693
2	ARS-BFGL-NGS-64273	23.76005	9594421
2	Hapmap38502-BTA-48351	23.97407	9633324
2	ARS-BFGL-NGS-114790	24.8498	9785462
2	Hapmap54204-rs29015637	25.05338	9810493
2	BTA-48147-no-rs	25.46141	9867063
2	Hapmap44337-BTA-109205	26.048	10114578
2	Hapmap51139-BTA-109204	26.10203	10137375
2	ARS-BFGL-BAC-33704	26.23189	10192170
2	Hapmap51202-BTA-28358	26.28997	10216677
2	Hapmap40653-BTA-114312	26.74591	10409064
2	Hapmap42875-BTA-23394	26.86194	10458021
2	ARS-BFGL-NGS-69447	27.03013	10528990
2	ARS-BFGL-NGS-30075	27.1057	10560879
2	BTA-23383-no-rs	27.17078	10588340
2	Hapmap44041-BTA-23382	27.24082	10617894
2	ARS-BFGL-NGS-38353	28.62868	11215815
2	ARS-BFGL-NGS-53911	29.11035	11458935

2	ARS-BFGL-NGS-39506	29.16207	11485041	
2	ARS-BFGL-NGS-91026	29.41921	11605232	
2	Hapmap27018-BTA-158911	29.48414	11634526	
2	ARS-BFGL-NGS-116628	29.76291	11732396	
2	BTA-109791-no-rs	29.89295	11755807	
2	BTA-48951-no-rs	30.13221	11798883	
2	Hapmap42566-BTA-48928	30.24439	11821563	
2	Hapmap38897-BTA-48906	30.40288	11877444	
2	ARS-BFGL-NGS-40106	30.53844	11925246	
2	ARS-BFGL-BAC-29180	30.88787	12048452	
2	BTA-48707-no-rs	30.99996	12087975	
2	ARS-BFGL-NGS-103955	31.08667	12118550	
2	Hapmap44546-BTA-48673	31.14418	12138830	
2	BTA-29193-no-rs	31.42078	12236359	
2	Hapmap46046-BTA-114001	31.53735	12277461	
2	ARS-BFGL-BAC-27295	31.67672	12326602	
2	BTA-110517-no-rs	32.03153	12451708	
2	Hapmap34694-BES3_Contig475_1491		32.13805	12489267
2	ARS-BFGL-NGS-91327	32.26483	12533969	
2	Hapmap32135-BTA-159962	32.82324	12730866	
2	BTB-01808519	32.91232	12762276	
2	ARS-BFGL-BAC-35552	33.08559	12823369	
2	BTA-21486-no-rs	33.40369	12954788	
2	Hapmap49523-BTA-20486	33.45221	12986565	
2	BTA-117245-no-rs	33.58128	13071091	
2	BTA-93171-no-rs	33.64497	13112798	
2	Hapmap49907-BTA-20483	33.73378	13170967	
2	ARS-BFGL-BAC-27305	33.78175	13202377	
2	Hapmap41795-BTA-20481	33.81885	13226674	
2	ARS-BFGL-BAC-32402	33.89721	13277993	
2	ARS-BFGL-NGS-43437	33.94546	13309591	
2	ARS-BFGL-BAC-32404	33.99752	13343685	
2	BTA-20457-no-rs	34.04585	13375340	
2	ARS-BFGL-NGS-88388	34.10065	13411225	
2	Hapmap59774-ss46526475	34.16815	13455432	
2	Hapmap60935-rs29012413	34.35278	13576346	
2	Hapmap54937-rs29013687	34.38448	13597108	
2	Hapmap49193-BTA-48784	34.41614	13617841	
2	ARS-BFGL-NGS-89201	34.45232	13641538	
2	BTA-48736-no-rs	34.47	13740363	
2	ARS-BFGL-NGS-38281	34.47	13800470	
2	Hapmap59876-rs29018046	34.47	13853729	
2	ARS-BFGL-NGS-89098	34.47	13901492	
2	ARS-BFGL-NGS-74668	34.47	13941524	
2	ARS-BFGL-BAC-33346	34.47	14165755	
2	BTA-97453-no-rs	34.47	14283570	
2	ARS-BFGL-NGS-112128	34.49017	14336331	
2	Hapmap47793-BTA-97444	34.50861	14360005	
2	ARS-BFGL-NGS-98581	34.54263	14403663	
2	BTB-01144233	34.56183	14428308	
2	Hapmap54766-rs29012658	34.58	14451633	
2	Hapmap52534-rs29010223	34.61481	14496313	
2	Hapmap38137-BTA-112893	34.6689	14565726	
2	Hapmap33059-BTA-158581	34.74392	14662015	
2	BTB-01085343	34.78405	14713525	
2	ARS-BFGL-NGS-117019	34.78742	14717851	
2	ARS-BFGL-NGS-45446	34.8035	14738491	
2	BTB-01085257	34.84871	14796521	
2	ARS-BFGL-NGS-19419	34.86856	14821988	

2	Hapmap60797-rs29023429	34.895	14855927	
2	Hapmap58884-rs29013431	34.92234	14891026	
2	ARS-BFGL-NGS-108876	34.96852	14950298	
2	Hapmap47192-BTA-119165	34.99153	14979824	
2	BTB-01084910	35.00848	15001586	
2	BTB-01084842	35.02405	15021561	
2	ARS-BFGL-NGS-82028	35.0663	15075787	
2	BTB-01084639	35.10903	15130630	
2	ARS-BFGL-NGS-105012	35.30186	15212100	
2	BTB-01084561	35.40429	15250050	
2	Hapmap24210-BTA-158558	35.54969	15303929	
2	BTB-01084484	35.64372	15338769	
2	ARS-BFGL-NGS-104492	35.70562	15361703	
2	BTB-01084313	35.76906	15385210	
2	BTB-01600567	36.10828	15510901	
2	BTB-01600593	36.19257	15542136	
2	BTB-01868760	36.29668	15580709	
2	Hapmap44576-BTA-90136	36.37934	15611339	
2	BTB-01410599	36.48917	15652034	
2	ARS-BFGL-NGS-36375	36.64342	15709188	
2	BTB-01410432	36.70022	15730233	
2	BTA-113745-no-rs	36.8369	15780878	
2	BTB-01845736	37.20402	15916907	
2	Hapmap42488-BTA-26728	37.3537	15972368	
2	ARS-BFGL-NGS-118141	37.41003	15993240	
2	BTB-00080812	37.49951	16026397	
2	ARS-BFGL-NGS-100666	37.58768	16059067	
2	ARS-BFGL-NGS-1216	37.66479	16087638	
2	Hapmap35360-SCAFFOLD145911_8451	37.78673	16132821	
2	BTA-28910-no-rs	37.85303	16157387	
2	Hapmap58340-rs29009785	37.9075	16177570	
2	BTA-109896-no-rs	38.07148	16238330	
2	BTB-01363466	38.38907	16356005	
2	Hapmap47905-BTA-28908	38.44665	16377340	
2	Hapmap41678-BTA-91191	38.55167	16416255	
2	BTB-01952715	38.73647	16484729	
2	BTB-01853142	38.94121	16560591	
2	Hapmap58412-rs29020884	39.04483	16598985	
2	BTB-00081694	39.27993	16686097	
2	Hapmap28148-BTA-97509	39.38763	16747928	
2	ARS-BFGL-NGS-112516	39.56806	16919889	
2	BTA-49719-no-rs	39.62904	16978001	
2	ARS-BFGL-NGS-38278	39.80183	17142680	
2	Hapmap61050-rs29013591	39.94418	17278352	
2	BTA-04435-no-rs	39.96	17354061	
2	BTB-01290659	39.96	17379799	
2	BTB-01290636	39.96	17408424	
2	BTB-01290581	39.96	17437006	
2	ARS-BFGL-NGS-71755	39.96	17461491	
2	BTB-00081745	39.96	17627839	
2	ARS-BFGL-NGS-24246	39.96	17658429	
2	Hapmap33031-BTA-148746	39.96	17708882	
2	BTB-00082046	39.96	17744595	
2	BTB-02054371	39.96	17774569	
2	Hapmap25114-BTA-49906	39.96	17819362	
2	BTB-01559455	39.96	17830735	
2	ARS-BFGL-NGS-104601	39.96	17857541	
2	BTB-01559639	39.96	17894542	
2	BTB-01559610	39.96	17930178	

2	Hapmap46225-BTA-49570	39.96	17974887	
2	BTA-49599-no-rs	39.96	18042962	
2	BTB-00081145	39.96	18078290	
2	Hapmap41889-BTA-49622	39.96	18108323	
2	Hapmap47640-BTA-49632	40.02931	18136876	
2	BTB-00081257	40.10174	18164650	
2	ARS-BFGL-NGS-113397	40.18781	18197654	
2	Hapmap47641-BTA-49646	40.28189	18233729	
2	Hapmap34168-BES3_Contig310_1112	40.36866		18267001
2	BTB-00081403	40.435	18292435	
2	Hapmap56313-rs29022477	40.64855	18374321	
2	BTB-00081518	40.73785	18408562	
2	ARS-BFGL-NGS-1167	40.96605	18496065	
2	ARS-BFGL-BAC-35137	41.03357	18548104	
2	ARS-BFGL-NGS-86079	41.04866	18570639	
2	Hapmap53232-rs29020795	41.09019	18632651	
2	Hapmap43615-BTA-54400	41.12584	18685872	
2	BTB-00066182	41.1659	18745691	
2	BTA-55303-no-rs	41.20621	18805875	
2	Hapmap38416-BTA-55305	41.22552	18834716	
2	BTA-55307-no-rs	41.25948	18885419	
2	BTB-00082256	41.3217	18978322	
2	ARS-BFGL-NGS-101460	41.40696	19105629	
2	ARS-BFGL-NGS-91042	41.42653	19134842	
2	BTB-01112664	41.44041	19155572	
2	ARS-BFGL-NGS-17648	41.48944	19228789	
2	BTA-86806-no-rs	41.51027	19259873	
2	BTA-11872-rs29017618	41.52876	19287490	
2	BTB-01112800	41.56274	19338223	
2	BTB-01112810	41.58107	19365599	
2	Hapmap49351-BTA-86808	41.59793	19390765	
2	ARS-BFGL-NGS-23300	41.64661	19463458	
2	ARS-BFGL-NGS-32739	41.74603	19611904	
2	Hapmap59161-rs29014139	41.8164	19695109	
2	BTB-01555229	41.94727	19807432	
2	BTB-01555215	42.0201	19827577	
2	ARS-BFGL-NGS-105466	42.10537	19851161	
2	BTB-01112976	42.51875	19965497	
2	ARS-BFGL-NGS-39206	42.68332	20011011	
2	Hapmap51079-BTA-88097	42.72952	20023792	
2	Hapmap60669-rs29018484	42.9539	20085850	
2	Hapmap59959-rs29020690	43.03715	20108878	
2	BTB-00083220	43.13581	20136165	
2	BTB-00083120	43.38196	20212418	
2	BTA-14230-rs29022995	43.73152	20377187	
2	ARS-BFGL-NGS-111881	43.77511	20399423	
2	ARS-BFGL-NGS-116058	43.80278	20421605	
2	Hapmap39315-BTA-12536	43.88089	20484212	
2	ARS-BFGL-BAC-35112	43.93409	20526860	
2	BTB-00082770	43.98552	20568089	
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2	BTA-46844-no-rs	44.3472	20858009	
2	BTB-00086860	44.39535	20896601	
2	BTB-01168392	44.45776	20946632	
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2	BTB-00083549	44.56147	21029759
2	Hapmap48774-BTA-46697	44.6254	21081007
2	Hapmap32159-BTA-46703	44.71821	21155409
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2	Hapmap50243-BTA-116664	44.83162	21246316
2	BTB-01728391	44.85811	21267547
2	ARS-BFGL-NGS-102509	44.88726	21290918
2	ARS-BFGL-NGS-119036	44.92822	21323746
2	BTB-01168531	44.96459	21352903
2	ARS-BFGL-NGS-77089	44.99592	21378013
2	BTB-01782721	45.01003	21389327
2	ARS-BFGL-NGS-86527	45.07909	21448855
2	ARS-BFGL-NGS-37899	45.14133	21512341
2	ARS-BFGL-NGS-46001	45.17056	21542143
2	BTA-115979-no-rs	45.19384	21565893
2	Hapmap40996-BTA-46790	45.26597	21639465
2	BTA-46780-no-rs	45.29644	21670549
2	BTB-00085394	45.32148	21696086
2	Hapmap50971-BTA-46778	45.35814	21733481
2	BTB-01963348	45.38112	21756920
2	BTB-00085353	45.40246	21778683
2	BTB-00085347	45.42574	21802428
2	BTB-00085328	45.44919	21826349
2	BTB-00085286	45.5061	21884395
2	Hapmap60122-rs29018097	45.52613	21904823
2	ARS-BFGL-NGS-32709	45.59988	21980040
2	Hapmap47964-BTA-46752	45.70542	22087692
2	ARS-BFGL-NGS-23786	45.74231	22125320
2	ARS-BFGL-BAC-30348	45.76758	22151093
2	BTB-00084907	45.89787	22283989
2	BTB-00084791	45.96519	22352656
2	BTB-00084784	46.00719	22395493
2	ARS-BFGL-NGS-107680	46.03981	22428759
2	BTB-00084660	46.06226	22451660
2	Hapmap50365-BTA-46730	46.17597	22569871
2	Hapmap33359-BTA-133718	46.20081	22604508
2	BTB-00084343	46.22962	22644664
2	BTB-00084309	46.25969	22686586
2	ARS-BFGL-NGS-59293	46.31825	22768217
2	ARS-BFGL-NGS-32608	46.44586	22946115
2	BTB-01693574	46.52833	23061078
2	ARS-BFGL-NGS-118058	46.60305	23091680
2	ARS-BFGL-NGS-14826	46.82737	23142668
2	BTB-00721870	46.9926	23180223
2	BTB-01543286	47.17226	23256213
2	BTB-01543251	47.22288	23287010
2	BTB-01543204	47.26586	23313156
2	BTB-01543144	47.30112	23334606
2	Hapmap56915-rs29026677	47.37517	23379654
2	BTB-00085503	47.41829	23405887
2	BTB-00085538	47.57003	23498197
2	BTB-00085622	47.60376	23518713
2	Hapmap38500-BTA-46794	47.67155	23559953
2	BTB-00085776	47.74711	23605919
2	BTB-00085877	47.76385	23628756
2	ARS-BFGL-NGS-14141	47.77042	23654385
2	Hapmap59009-rs29027446	47.77864	23686403
2	ARS-BFGL-NGS-103110	47.78623	23715994

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2	ARS-BFGL-NGS-81142	47.81414	23824758	
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2	BTA-46847-no-rs	47.9084	24192141	
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2	BTB-00087067	47.93237	24285533	
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2	ARS-BFGL-NGS-99222	47.95211	24362479	
2	ARS-BFGL-NGS-14875	47.96253	24403108	
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2	Hapmap52128-rs29015710	47.98	24472770	
2	Hapmap57629-rs29027188	47.98	24487457	
2	Hapmap59917-rs29012418	47.98	24519348	
2	BTB-00087562	47.98	24543348	
2	ARS-BFGL-NGS-43595	47.98	24567533	
2	BTB-00087717	47.98	24592039	
2	BTB-00087821	47.98	24695545	
2	BTA-46908-no-rs	47.98	24734064	
2	ARS-BFGL-NGS-3079	47.98	24773731	
2	BTB-00083874	47.98	24801186	
2	Hapmap44380-BTA-46707	47.98	24837034	
2	ARS-BFGL-NGS-113556	47.98	24882812	
2	BTB-00084004	47.98	24905225	
2	Hapmap40746-BTA-46710	47.98	24937393	
2	ARS-BFGL-NGS-28193	47.98	24987192	
2	ARS-BFGL-NGS-108909	47.98532	25253188	
2	Hapmap58903-rs29012194	47.98589	25279208	
2	BTB-00085949	47.98766	25359234	
2	BTB-00086044	48.04982	25498932	
2	Hapmap43586-BTA-46818	48.2452	25609914	
2	ARS-BFGL-NGS-61392	48.33159	25658990	
2	Hapmap46703-BTA-46822	48.38076	25686918	
2	BTA-121216-no-rs	48.42476	25711913	
2	ARS-BFGL-NGS-67669	48.51418	25762707	
2	Hapmap31749-BTA-133764	48.69488	25865352	
2	ARS-BFGL-NGS-6133	49.12318	26108646	
2	BTB-00088008	49.26944	26191728	
2	ARS-BFGL-NGS-38536	49.30583	26212397	
2	BTA-46926-no-rs	49.34438	26234295	
2	ARS-BFGL-NGS-26680	49.39548	26263326	
2	BTA-47105-no-rs	49.43549	26286051	
2	BTB-00091700	49.47	26308838	
2	ARS-BFGL-NGS-27087	49.47	26333469	
2	BTB-00091568	49.47	26362611	
2	Hapmap50368-BTA-47103	49.47	26432941	
2	BTB-00091527	49.47	26460035	
2	Hapmap35504-SCAFFOLD52046_3051	49.47	26528268	
2	Hapmap43272-BTA-47100	49.47	26558720	
2	Hapmap52660-ss46526812	49.48971	26592749	
2	BTA-112971-no-rs	49.72932	26734422	
2	Hapmap39717-BTA-112973	49.79708	26781358	
2	ARS-BFGL-NGS-11470	49.91211	26861021	
2	BTA-123273-no-rs	49.94505	26883836	
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2	Hapmap50367-BTA-47094	50.37854	27244338
2	BTB-00091356	50.38848	27266773
2	BTB-00091350	50.41373	27323747
2	BTA-47092-no-rs	50.43612	27374270
2	BTB-00091195	50.45306	27412491
2	Hapmap59218-rs29014793	50.46975	27450149
2	BTA-47089-no-rs	50.48717	27489458
2	ARS-BFGL-NGS-107504	50.49422	27505377
2	BTB-00091109	50.50764	27535652
2	BTA-47081-no-rs	50.55205	27635860
2	BTB-00090936	50.56188	27658055
2	ARS-BFGL-NGS-16854	50.58691	27714533
2	BTB-00090874	50.59152	27724930
2	ARS-BFGL-NGS-48318	50.60557	27756641
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2	BTA-47074-no-rs	50.65311	27863911
2	BTB-00090483	50.66671	27894603
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2	Hapmap39657-BTA-47071	50.70594	27983134
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2	ARS-BFGL-NGS-40971	50.74593	28073362
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2	BTA-47052-no-rs	50.79986	28195054
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2	Hapmap48633-BTA-118034	50.89873	28418159
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2	BTA-15124-rs29026489	50.92783	28483819
2	ARS-BFGL-NGS-13789	50.93882	28508619
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2	Hapmap56032-rs29022835	50.94	28573158
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2	Hapmap51783-BTA-96615	50.94	28692603
2	Hapmap41697-BTA-96617	50.94	28722493
2	BTA-96624-no-rs	50.94	28758897
2	Hapmap61063-rs29026680	50.94	28759185
2	BTB-01494206	50.94	28803276
2	ARS-BFGL-NGS-19813	50.94	28834748
2	BTB-01494156	50.94	28923176
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2	Hapmap43138-BTA-107007	50.94	28994690
2	Hapmap39178-BTA-96630	50.94	29027343
2	ARS-BFGL-NGS-99856	50.94	29055572
2	ARS-BFGL-NGS-104761	50.99287	29092924
2	BTA-89168-no-rs	51.08073	29135710
2	BTA-09540-no-rs	51.18805	29187973
2	BTB-01987495	51.24356	29215002
2	BTA-30375-no-rs	51.29599	29240531
2	BTA-30381-no-rs	51.36779	29275496
2	ARS-BFGL-NGS-31833	51.43324	29307365
2	ARS-BFGL-NGS-13167	51.48	29335326
2	Hapmap32886-BTA-30414	51.48	29370591
2	BTA-30419-no-rs	51.48	29405628

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2	BTB-01978664	51.63146	29509798	
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2	BTB-01817112	51.82469	29591727	
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2	ARS-BFGL-BAC-33169	52.34645	29812959	
2	BTB-01045439	52.40921	29839570	
2	ARS-BFGL-NGS-94388	52.46585	29863589	
2	ARS-BFGL-NGS-118404	52.54554	29893086	
2	ARS-BFGL-NGS-38622	52.61661	29919184	
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2	BTA-47106-no-rs	52.79047	29983032	
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2	ARS-BFGL-BAC-28097	52.97654	30068409	
2	Hapmap23355-BTA-133816	53.03371	30102137	
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2	Hapmap52303-rs29012101	53.12773	30157601	
2	ARS-BFGL-BAC-28969	53.19456	30197027	
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2	ARS-BFGL-NGS-103589	53.54276	30402454	
2	Hapmap40825-BTA-87008	53.58385	30426695	
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2	Hapmap39006-BTA-116188	53.67603	30481073	
2	ARS-BFGL-BAC-31395	53.71553	30504377	
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2	ARS-BFGL-BAC-28436	53.89108	30607947	
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2	ARS-BFGL-BAC-30229	53.97832	30659411	
2	Hapmap27615-BTA-151650	54.01382	30680359	
2	ARS-BFGL-BAC-30252	54.0542	30704175	
2	Hapmap51366-BTA-98577	54.17184	30773585	
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2	ARS-BFGL-BAC-2680	54.32425	30863495	
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2	ARS-BFGL-BAC-29051	54.43815	30930693	
2	ARS-BFGL-BAC-33265	54.5606	31020591	
2	ARS-BFGL-BAC-33842	54.61435	31050929	
2	ARS-BFGL-BAC-29669	54.66751	31080979	
2	ARS-BFGL-BAC-29706	54.72208	31112142	
2	Hapmap40659-BTA-116165	54.77559	31142702	
2	Hapmap27145-BTA-116154	54.87086	31197115	
2	ARS-BFGL-BAC-68	54.95003	31242327	
2	ARS-BFGL-BAC-32035	54.99082	31265623	
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2	ARS-BFGL-NGS-119470	55.13785	31327919	
2	Hapmap25812-BTA-133837	55.37227	31466188	
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2	BTA-47136-no-rs	55.39795	31533028	
2	Hapmap52594-rs29026993	55.41206	31569746	
2	BTA-47138-no-rs	55.42514	31603809	
2	BTB-00092571	55.44196	31647578	
2	BTB-01571963	55.45099	31671085	
2	ARS-BFGL-NGS-80635	55.46029	31695296	
2	BTA-104779-no-rs	55.47425	31731639	
2	ARS-BFGL-NGS-38895	55.49807	31793643	
2	BTB-00093493	55.52749	31870220	
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2	BTB-47279-no-rs	55.57579	31995926
2	Hapmap44597-BTA-47277	55.60975	32084326
2	BTB-00093314	55.61906	32108568
2	BTB-00093291	55.63683	32154806
2	ARS-BFGL-NGS-39862	55.65965	32214197
2	ARS-BFGL-NGS-77689	55.67969	32266380
2	BTB-00093074	55.69485	32305832
2	ARS-BFGL-BAC-4501	55.71403	32355749
2	Hapmap42950-BTA-47265	55.72189	32376219
2	ARS-BFGL-NGS-3960	55.76344	32484368
2	BTB-00092817	55.77724	32520300
2	Hapmap41880-BTA-47153	55.83975	32683000
2	BTB-00092756	55.84765	32703555
2	BTA-47150-no-rs	55.85628	32726015
2	ARS-BFGL-NGS-113793	55.87347	32770767
2	Hapmap41879-BTA-47145	55.91581	32880955
2	BTB-00092669	55.92759	32911623
2	BTB-00094591	55.95072	32971826
2	BTB-00094379	56.00824	33121559
2	BTB-00094296	56.04452	33215993
2	BTB-00094289	56.07562	33245068
2	BTB-00094170	56.23445	33336950
2	ARS-BFGL-NGS-6378	56.28304	33365058
2	ARS-BFGL-BAC-42858	56.34623	33401608
2	BTB-00093853	56.40052	33433015
2	BTB-00093776	56.48977	33484646
2	BTB-00093748	56.63772	33570231
2	ARS-BFGL-NGS-7878	56.8255	33678860
2	ARS-BFGL-NGS-31279	56.99372	33776171
2	BTB-00093713	57.03278	33798764
2	BTB-00088434	57.32207	33966115
2	BTB-00088458	57.35782	33986797
2	ARS-BFGL-NGS-65913	57.40794	34015788
2	Hapmap46221-BTA-46942	57.45784	34044657
2	BTB-00088563	57.52714	34084746
2	BTB-00088621	57.58497	34118200
2	BTB-00088679	57.71752	34194876
2	ARS-BFGL-BAC-30629	57.77737	34229500
2	BTB-00088688	57.82691	34258157
2	BTB-01896843	57.92999	34329085
2	ARS-BFGL-NGS-119116	57.95557	34351109
2	BTB-00092589	57.98837	34379341
2	BTB-00094752	58.08027	34458464
2	ARS-BFGL-NGS-64127	58.12875	34500208
2	UA-IFASA-6488	58.17187	34537333
2	Hapmap26123-BTA-133877	58.21308	34572812
2	BTB-00969696	58.28963	34638721
2	BTB-00969746	58.312	34657974
2	BTB-00969752	58.33723	34679700
2	Hapmap45885-BTA-63051	58.37206	34709686
2	ARS-BFGL-BAC-30745	58.61452	34918437
2	ARS-BFGL-NGS-100791	58.71472	35004695
2	BTA-95758-no-rs	58.76007	35043749
2	Hapmap47871-BTA-122165	58.85136	35122342
2	BTB-00089384	59.01694	35264900
2	Hapmap49623-BTA-46979	59.08057	35319678
2	Hapmap61145-rs29025790	59.15777	35386147
2	BTB-00089403	59.26558	35478963

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2	Hapmap51878-BTA-117353	59.51312	35692083
2	BTB-01246228	59.55465	35727838
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2	BTB-00295725	59.69971	35852731
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2	ARS-BFGL-BAC-3633	59.74987	35936557
2	Hapmap50820-BTA-91209	59.77542	35993314
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2	ARS-BFGL-NGS-85296	59.87141	36206558
2	ARS-BFGL-NGS-110726	59.88142	36228793
2	Hapmap25251-BTA-133896	59.89215	36252633
2	ARS-BFGL-NGS-117164	59.95535	36393032
2	Hapmap27039-BTA-22947	60.24664	36570379
2	Hapmap39151-BTA-22132	60.35194	36603752
2	ARS-BFGL-NGS-102089	60.51529	36655521
2	Hapmap42250-BTA-55589	61.13183	36850914
2	ARS-BFGL-BAC-30704	61.25935	36891323
2	Hapmap55306-rs29018633	61.40384	36969965
2	BTA-55603-no-rs	61.47818	37065686
2	ARS-BFGL-BAC-30703	61.54895	37156818
2	ARS-BFGL-NGS-117409	61.62627	37256390
2	Hapmap25533-BTA-133664	61.68562	37332808
2	BTA-46613-no-rs	61.70564	37358592
2	ARS-BFGL-NGS-75	61.74219	37405656
2	Hapmap52382-rs29019574	61.8811	37584534
2	Hapmap58509-rs29024139	61.92067	37635484
2	ARS-BFGL-NGS-117267	61.95156	37675264
2	ARS-BFGL-NGS-28859	61.9933	37729012
2	ARS-BFGL-NGS-114956	62.02482	37769598
2	ARS-BFGL-NGS-57870	62.18252	37813654
2	Hapmap40693-BTA-23038	62.86649	38014729
2	Hapmap43527-BTA-24641	63.28957	38240106
2	Hapmap41189-BTA-122751	63.40393	38312194
2	ARS-BFGL-NGS-34549	63.44845	38340255
2	Hapmap40998-BTA-47401	63.51735	38416725
2	ARS-BFGL-NGS-78890	63.53255	38436921
2	Hapmap48776-BTA-47395	63.59921	38525454
2	Hapmap30225-BTA-133903	63.63046	38566968
2	ARS-BFGL-NGS-3108	63.68295	38636687
2	ARS-BFGL-NGS-38727	63.70842	38670519
2	ARS-BFGL-BAC-31338	63.73775	38709480
2	Hapmap42557-BTA-47352	63.76692	38748216
2	BTA-47365-no-rs	63.78389	38770761
2	Hapmap53285-rs29015860	63.80959	38804898
2	BTB-00096057	63.8662	38880084
2	ARS-BFGL-NGS-29623	63.88771	38908651
2	Hapmap55130-rs29021614	63.9109	38939453
2	Hapmap32557-BTA-133920	63.98021	39031524
2	ARS-BFGL-NGS-60043	63.99935	39056934
2	ARS-BFGL-BAC-2813	64.02162	39086521
2	ARS-BFGL-NGS-103291	64.07614	39158935
2	ARS-BFGL-NGS-30262	64.14223	39246711
2	UA-IFASA-9548	64.22003	39350058
2	Hapmap23256-BTA-113482	64.43416	39634470
2	ARS-BFGL-NGS-112315	64.44942	39654734
2	BTA-114831-no-rs	64.49027	39709004
2	ARS-BFGL-NGS-104922	64.54012	39775205
2	BTB-01053796	64.59065	39842336

2	Hapmap47839-BTA-113475	64.6366	39903367	
2	ARS-BFGL-NGS-98401	64.69156	39976359	
2	ARS-BFGL-NGS-118508	64.70932	39999947	
2	Hapmap36520-SCAFFOLD290052_3670	64.72556	40021512	
2	Hapmap55508-rs29010162	64.82648	40155558	
2	BTB-01053755	64.94528	40313359	
2	BTB-01053741	64.96332	40337325	
2	ARS-BFGL-NGS-83225	64.97957	40358906	
2	BTB-01053710	65.00357	40390786	
2	ARS-BFGL-NGS-35226	65.09631	40513966	
2	ARS-BFGL-NGS-30068	65.11465	40540747	
2	ARS-BFGL-BAC-41568	65.17542	40653110	
2	BTA-08061-no-rs	65.29868	40881032	
2	Hapmap43158-BTA-113479	65.33026	40939434	
2	BTB-01648501	65.43051	41124804	
2	BTB-01648482	65.47054	41198815	
2	ARS-BFGL-NGS-2854	65.48643	41228198	
2	BTB-01341306	65.50784	41267792	
2	Hapmap59739-rs29016910	65.52786	41304807	
2	ARS-BFGL-NGS-99769	65.55444	41353953	
2	Hapmap38483-BTA-25757	65.57184	41386138	
2	BTA-25759-no-rs	65.57883	41399057	
2	BTB-01341517	65.59474	41428478	
2	ARS-BFGL-BAC-41557	65.61464	41465274	
2	Hapmap22957-BTA-47431	65.62695	41488041	
2	ARS-BFGL-NGS-55184	65.66814	41564195	
2	BTB-01883711	65.6834	41592409	
2	BTB-01871274	65.70288	41628433	
2	BTA-25760-no-rs	65.71303	41647204	
2	ARS-BFGL-BAC-2790	65.7266	41672298	
2	BTB-00096979	65.75307	41717655	
2	Hapmap48777-BTA-47434	65.85395	41786376	
2	BTA-47437-no-rs	65.88815	41809670	
2	ARS-BFGL-BAC-29526	65.91766	41829776	
2	BTA-47440-no-rs	65.95209	41853231	
2	Hapmap50154-BTA-91586	65.98272	41874101	
2	Hapmap57995-rs29022905	66.03973	41912933	
2	Hapmap46653-BTA-47447	66.07755	41938704	
2	BTB-00097114	66.14868	41987155	
2	BTB-00097126	66.17928	42008005	
2	Hapmap44080-BTA-47449	66.23023	42042712	
2	Hapmap51456-BTA-47469	66.36881	42137116	
2	Hapmap54983-rs29020503	66.42186	42173258	
2	BTB-00097246	66.44543	42189311	
2	BTB-01242431	66.52464	42243268	
2	BTB-01242342	66.66189	42336766	
2	BTB-01242298	66.70177	42363937	
2	BTB-01242289	66.75111	42397550	
2	BTB-01242184	66.83435	42454257	
2	BTB-01437762	66.91248	42587245	
2	ARS-BFGL-NGS-45548	66.99723	42738222	
2	ARS-BFGL-NGS-115659	67.01652	42772590	
2	ARS-BFGL-NGS-105507	67.0404	42815136	
2	BTB-01247298	67.15177	42897811	
2	BTA-19852-no-rs	67.32292	42986890	
2	BTB-01838972	67.37508	43014031	
2	BTB-01247268	67.38942	43021497	
2	BTB-01247241	67.42934	43042276	
2	ARS-BFGL-NGS-11153	67.47475	43065908	

2	BTA-46592-no-rs	67.60142	43131830		
2	BTA-27803-no-rs	67.78098	43225280		
2	ARS-BFGL-NGS-112050	68.10953	43396276		
2	BTA-49947-no-rs	68.18673	43436458		
2	ARS-BFGL-NGS-41803	68.22599	43456893		
2	ARS-BFGL-NGS-43758	68.28732	43488810		
2	ARS-BFGL-NGS-8309	68.32755	43513143		
2	ARS-BFGL-NGS-79459	68.55	43905458		
2	ARS-BFGL-NGS-81054	68.71729	43966884		
2	UA-IFASA-9607	68.98079	44116574		
2	Hapmap47965-BTA-47481	69.04745	44173767		
2	ARS-BFGL-NGS-18591	69.07099	44193968		
2	ARS-BFGL-NGS-30987	69.1115	44228718		
2	ARS-BFGL-NGS-93283	69.15372	44264949		
2	ARS-BFGL-NGS-25825	69.37628	44455898		
2	ARS-BFGL-NGS-27508	69.44176	44512075		
2	Hapmap55415-ss46526681	69.72469	44754820		
2	ARS-BFGL-NGS-79233	69.79996	44819403		
2	Hapmap39028-BTA-49928	69.94633	44944975		
2	Hapmap59844-rs29025329	69.9498	44947955		
2	Hapmap50202-BTA-106854	70.04081	45026036		
2	Hapmap43136-BTA-106852	70.11063	45085937		
2	ARS-BFGL-NGS-66375	70.17942	45144958		
2	ARS-BFGL-NGS-27169	70.3713	45309586		
2	ARS-BFGL-NGS-6038	70.45226	45379047		
2	Hapmap53891-rs29021231	70.65665	45554413		
2	Hapmap38896-BTA-47506	70.67997	45574415		
2	Hapmap25252-BTA-133942	70.73355	45620386		
2	ARS-BFGL-NGS-67924	70.76037	45643391		
2	Hapmap34848-BES1_Contig523_1341	70.9482	45718686		
2	ARS-USMARC-Parent-AY841151-rs29003466	71.35805	45832887		
2	Hapmap34002-BES11_Contig450_949	71.77468	46010764		
2	ARS-BFGL-BAC-41571	72.27641	46244844		
2	Hapmap50824-BTA-92238	72.3398	46268964		
2	ARS-BFGL-NGS-44416	72.73071	46498119		
2	Hapmap41882-BTA-47592	72.75548	46528687		
2	ARS-BFGL-NGS-16519	72.77848	46557061		
2	ARS-BFGL-NGS-36771	72.80811	46593620		
2	ARS-BFGL-NGS-29014	72.86345	46661883		
2	Hapmap57575-rs29011345	72.8947	46700438		
2	Hapmap44600-BTA-47582	73.00648	46838331		
2	ARS-BFGL-NGS-119305	73.04787	46889391		
2	BTA-117085-no-rs	73.10865	46964376		
2	ARS-BFGL-NGS-100319	73.134	46995644		
2	Hapmap48631-BTA-117251	73.20599	47084459		
2	ARS-BFGL-NGS-32858	73.23119	47115547		
2	Hapmap34454-BES3_Contig368_1159	73.27773	47172957		
2	Hapmap41551-BTA-47567	73.30158	47202387		
2	ARS-BFGL-NGS-110511	73.33057	47238139		
2	ARS-BFGL-NGS-3296	73.37184	47289064		
2	ARS-BFGL-BAC-47330	73.41271	47339483		
2	ARS-BFGL-BAC-2793	73.5015	47449015		
2	BTA-47524-no-rs	73.75374	47760192		
2	Hapmap48352-BTA-47529	73.84563	47873555		
2	ARS-BFGL-NGS-103557	74.07306	48154122		
2	ARS-BFGL-NGS-82865	74.1246	48217714		
2	Hapmap43862-BTA-47538	74.14314	48240577		
2	ARS-BFGL-BAC-35245	74.17736	48282793		
2	ARS-BFGL-NGS-114697	74.23727	48356704		

2	UA-IFASA-9180	74.26807	48394699
2	Hapmap43863-BTA-47554	74.30551	48440885
2	BTA-47558-no-rs	74.41035	48570218
2	BTA-14682-no-rs	74.674	48895479
2	Hapmap47966-BTA-47563	74.69816	48925280
2	Hapmap18416-rs29019993	74.74018	48977118
2	ARS-BFGL-NGS-113042	74.83627	49095661
2	Hapmap42449-BTA-120321	74.90096	49175458
2	Hapmap35440-SCAFFOLD43266_711	75.38066	49767251
2	ARS-BFGL-NGS-38341	75.4138	49808137
2	BTA-120308-no-rs	75.5004	49914972
2	ARS-BFGL-NGS-113925	75.5237	49943710
2	Hapmap40308-BTA-47694	75.62593	50069820
2	BTA-47682-no-rs	75.67537	50130815
2	BTA-47677-no-rs	75.7037	50165771
2	ARS-BFGL-NGS-46883	75.72195	50188289
2	Hapmap38756-BTA-47676	75.75053	50223536
2	BTB-00099032	75.78183	50262148
2	Hapmap42228-BTA-47674	75.86769	50368074
2	BTB-00098912	75.97961	50506143
2	BTB-00098901	76.02003	50556015
2	Hapmap41883-BTA-47665	76.05219	50595671
2	ARS-BFGL-BAC-35838	76.08231	50632840
2	ARS-BFGL-BAC-35839	76.12801	50689222
2	BTB-01720538	76.1729	50744605
2	ARS-BFGL-NGS-108848	76.19167	50767757
2	BTB-01741550	76.22651	50810731
2	BTB-00097683	76.30055	50902073
2	BTB-01741678	76.31224	50916490
2	BTB-00097813	76.38985	51012229
2	ARS-BFGL-NGS-53353	76.40831	51035004
2	Hapmap38755-BTA-47611	76.47	51129488
2	BTA-47612-no-rs	76.48713	51162276
2	BTB-00098202	76.51948	51200785
2	BTB-00098220	76.54176	51227309
2	BTB-00098296	76.58097	51273999
2	ARS-BFGL-NGS-98960	76.67461	51385485
2	ARS-BFGL-NGS-117857	76.71204	51430054
2	ARS-BFGL-NGS-115807	76.80991	51546568
2	BTB-00098343	76.87319	51621921
2	BTA-47622-no-rs	76.9366	51697409
2	ARS-BFGL-BAC-37051	77.06853	51854482
2	ARS-BFGL-NGS-109901	77.10273	51895209
2	ARS-BFGL-NGS-34526	77.11896	51914519
2	Hapmap52423-rs29022902	77.14073	51940451
2	BTB-00098528	77.17671	51983283
2	Hapmap42227-BTA-47643	77.2066	52018862
2	BTA-47646-no-rs	77.22775	52044048
2	BTA-47652-no-rs	77.24952	52069973
2	BTB-00098707	77.28291	52109717
2	BTB-00098730	77.30045	52130607
2	ARS-BFGL-NGS-3385	77.3218	52156024
2	ARS-BFGL-NGS-118744	77.33929	52176845
2	Hapmap43865-BTA-47654	77.38364	52229656
2	Hapmap45495-BTA-47659	77.45508	52314712
2	Hapmap44545-BTA-47658	77.47585	52339443
2	BTB-00098856	77.52054	52392645
2	BTA-47656-no-rs	77.54141	52417495
2	BTB-00098808	77.56857	52449826

2	BTB-00098799	77.59126	52476850	
2	BTB-00098773	77.60819	52497009	
2	Hapmap60959-rs29025559	77.65196	52549118	
2	BTB-01266966	77.67765	52579702	
2	Hapmap41178-BTA-120553	77.70482	52612052	
2	BTA-120552-no-rs	77.72186	52632330	
2	BTB-01266880	77.77225	52692341	
2	BTB-01266858	77.79253	52716480	
2	ARS-BFGL-NGS-65713	77.84438	52778208	
2	BTB-01266794	77.88448	52825949	
2	BTB-01266707	77.94658	52899889	
2	Hapmap48664-BTA-16199	78.00231	52966242	
2	BTB-01625704	78.01968	52986917	
2	Hapmap38282-BTA-108693	78.04453	53016506	
2	Hapmap42418-BTA-108690	78.06895	53045574	
2	Hapmap46778-BTA-16201	78.09746	53079518	
2	Hapmap34316-BES5_Contig205_709	78.12575	53113209	
2	BTB-01274050	78.16646	53161676	
2	Hapmap33246-BTA-159394	78.19923	53200694	
2	Hapmap31810-BTA-155140	78.3086	53330902	
2	ARS-BFGL-NGS-49789	78.34083	53369279	
2	ARS-BFGL-NGS-59969	78.35801	53389738	
2	BTB-01559051	78.36	53431931	
2	BTB-01412384	78.36	53452826	
2	Hapmap50149-BTA-90491	78.36	53477976	
2	BTB-01412526	78.36	53502146	
2	Hapmap50816-BTA-90485	78.36	53580101	
2	BTB-01412462	78.36	53614731	
2	BTB-01412441	78.36	53646650	
2	BTB-02061251	78.36	53743866	
2	BTA-01008-rs29011975	78.36	53749577	
2	BTA-46608-no-rs	78.36	53779266	
2	BTB-00082706	78.36	53814015	
2	BTB-01390801	78.36	53894600	
2	BTB-01390827	78.36	53907394	
2	BTB-01390865	78.36	53931759	
2	ARS-BFGL-NGS-118904	78.36	53951533	
2	BTA-115754-no-rs	78.36	53993609	
2	Hapmap48220-BTA-121978	78.36	54026476	
2	BTB-01390921	78.36	54051242	
2	Hapmap58989-rs29020790	78.36	54078449	
2	Hapmap43801-BTA-18254	78.36	54130292	
2	ARS-BFGL-NGS-110491	78.36	54186574	
2	ARS-BFGL-NGS-34148	78.36	54237423	
2	BTB-01621450	78.36	54409482	
2	Hapmap51797-BTA-108321	78.36	54445075	
2	BTA-88865-no-rs	78.36	54502437	
2	BTB-01775964	78.36	54519795	
2	Hapmap34718-BES7_Contig295_922	78.36	54559607	
2	ARS-BFGL-NGS-88182	78.38262	54588834	
2	BTA-09659-rs29025817	78.47304	54696204	
2	BTB-01391891	78.51057	54740773	
2	UA-IFASA-8123	78.53564	54770542	
2	BTB-00183404	78.57106	54812608	
2	BTB-00183384	78.59334	54839057	
2	Hapmap50447-BTA-70481	78.64574	54901289	
2	BTB-01391805	78.67515	54936213	
2	Hapmap29674-BTA-160310	78.70252	54968718	
2	BTB-01294230	78.76102	55038193	



2	BTB-01294125	78.78556	55067325	
2	BTB-01293919	78.82893	55118828	
2	Hapmap51787-BTA-101971	78.84975	55143544	
2	Hapmap38718-BTA-101966	78.91926	55226091	
2	BTB-01165311	78.96736	55283216	
2	ARS-BFGL-NGS-111213	78.9888	55308672	
2	Hapmap43745-BTA-101961	79.01608	55341069	
2	BTB-01165248	79.04225	55372153	
2	BTB-01165238	79.07056	55405767	
2	BTB-01165225	79.10152	55442525	
2	Hapmap41404-BTA-101995	79.12936	55475595	
2	BTB-01165178	79.15168	55502096	
2	Hapmap43123-BTA-101963	79.17091	55524932	
2	BTB-01165150	79.18906	55546478	
2	BTB-01892981	79.20595	55566541	
2	Hapmap23257-BTA-123353	79.24675	55614992	
2	Hapmap48508-BTA-88108	79.28604	55661656	
2	ARS-BFGL-NGS-34732	79.31715	55698595	
2	BTB-01753605	79.34286	55729126	
2	Hapmap33880-BES9_Contig535_933	79.39951	55796401	
2	Hapmap38699-BTA-81626	79.42924	55831708	
2	BTB-00353784	79.44662	55852340	
2	Hapmap44140-BTA-81617	79.46695	55876484	
2	BTB-00353647	79.49162	55905779	
2	BTB-01160731	79.50961	55927141	
2	ARS-BFGL-NGS-15557	79.52667	55947403	
2	BTB-01160816	79.55112	55976443	
2	Hapmap60963-rs29015781	79.56945	55998204	
2	ARS-BFGL-NGS-105321	79.60505	56040478	
2	Hapmap27618-BTA-152634	79.62438	56063430	
2	ARS-BFGL-BAC-27497	79.67514	56123710	
2	BTB-01161054	79.69777	56150582	
2	Hapmap41401-BTA-101347	79.7223	56179714	
2	BTA-101352-no-rs	79.76868	56234794	
2	BTA-101353-no-rs	79.8297	56307244	
2	BTA-101354-no-rs	79.87098	56356269	
2	Hapmap28102-BTA-152636	79.89275	56382133	
2	BTA-101359-no-rs	79.91544	56409074	
2	BTA-101366-no-rs	79.95569	56456865	
2	BTB-01818949	79.9745	56479206	
2	BTB-01819043	79.99583	56504541	
2	BTA-106070-no-rs	80.02525	56539467	
2	BTB-01588936	80.06258	56583793	
2	Hapmap39803-BTA-106074	80.08949	56615753	
2	ARS-BFGL-NGS-43395	80.10703	56636575	
2	BTB-01146113	80.15601	56694744	
2	BTB-01146092	80.22442	56775988	
2	BTB-01145879	80.26641	56825850	
2	Hapmap28163-BTA-151437	80.28801	56851496	
2	BTB-01145846	80.3248	56895186	
2	BTB-00335888	80.38457	56966172	
2	BTA-19224-no-rs	80.63202	57260012	
2	BTB-00099884	80.72792	57373897	
2	BTB-00099725	80.79621	57449775	
2	ARS-BFGL-NGS-43662	80.83243	57481115	
2	Hapmap25253-BTA-134017	80.87282	57516075	
2	Hapmap54628-rs29021692	80.99273	57619846	
2	Hapmap44382-BTA-47704	81.04409	57664300	
2	BTB-00099340	81.07619	57692075	

2	Hapmap44246-BTA-47696	81.11678	57727203
2	BTB-00099180	81.16473	57768704
2	Hapmap52345-rs29024293	81.20184	57800824
2	ARS-BFGL-NGS-25349	81.2395	57833417
2	ARS-BFGL-NGS-117385	81.40933	57980393
2	ARS-BFGL-NGS-28503	81.6786	58066110
2	ARS-BFGL-NGS-18664	81.7	58191921
2	Hapmap59763-rs29018910	81.7	58265805
2	Hapmap60691-rs29012315	81.7	58291941
2	BTB-01197150	81.7	58351712
2	BTB-01196985	81.7	58393701
2	ARS-BFGL-NGS-72562	81.7	58492031
2	ARS-BFGL-NGS-33092	81.7	58519836
2	ARS-BFGL-NGS-90955	81.7	58545892
2	ARS-BFGL-NGS-111122	81.7	58580638
2	ARS-BFGL-NGS-83275	81.7	58600302
2	ARS-BFGL-NGS-43350	81.7	58622479
2	ARS-BFGL-NGS-28178	81.7	58653662
2	BTB-01349869	81.7	58687171
2	ARS-BFGL-NGS-23883	81.7	58745694
2	Hapmap39640-BTA-27073	81.7	58772041
2	ARS-BFGL-NGS-5784	81.7	58824184
2	ARS-BFGL-NGS-107609	81.7	58852270
2	Hapmap47220-BTA-22362	81.76205	58975210
2	BTA-23960-no-rs	81.88669	59012525
2	BTA-23963-no-rs	81.95174	59032002
2	ARS-BFGL-NGS-24778	82.04228	59059108
2	ARS-BFGL-NGS-37839	82.12343	59083405
2	ARS-BFGL-NGS-117608	82.32458	59143632
2	Hapmap31501-BTA-158286	82.33	59237220
2	BTB-01328981	82.33	59261715
2	BTB-01361440	82.33	59318500
2	BTA-88935-no-rs	82.36803	59440715
2	BTB-01902301	82.37851	59461527
2	BTB-01402854	82.39188	59488095
2	BTA-28579-no-rs	82.41618	59536355
2	ARS-BFGL-NGS-44854	82.43262	59569007
2	ARS-BFGL-NGS-74193	82.44413	59591867
2	ARS-BFGL-NGS-9262	82.45545	59614350
2	Hapmap51345-BTA-88931	82.47066	59644564
2	BTB-01796166	82.4816	59666280
2	Hapmap51412-BTA-16926	82.49358	59690093
2	Hapmap52568-rs29017559	82.50896	59720643
2	BTB-01651888	82.52924	59760905
2	BTB-01806590	82.54844	59799053
2	ARS-BFGL-NGS-16565	82.57014	59842148
2	ARS-BFGL-NGS-108325	82.61602	59927024
2	BTB-00100191	82.71642	60087290
2	Hapmap44466-BTA-47718	82.7377	60121256
2	ARS-BFGL-NGS-4659	82.75182	60143778
2	BTB-00099916	82.77441	60179830
2	Hapmap40271-BTA-47722	82.80172	60223428
2	ARS-BFGL-NGS-86934	82.84447	60257231
2	ARS-BFGL-NGS-38875	83.116	60308526
2	ARS-BFGL-NGS-2796	83.37	60451952
2	ARS-BFGL-NGS-117095	83.37141	60487160
2	BTB-01071488	83.442	60592353
2	ARS-BFGL-NGS-13806	83.61216	60775596
2	Hapmap38373-BTA-107037	83.82115	60985930

2	ARS-BFGL-NGS-36803	83.85063	61015598
2	ARS-BFGL-NGS-42047	83.88268	61047858
2	ARS-BFGL-NGS-114507	83.91512	61080508
2	ARS-BFGL-NGS-50482	83.96851	61134245
2	Hapmap38999-BTA-107039	83.98	61276598
2	ARS-BFGL-NGS-117383	83.98	61300131
2	Hapmap55796-rs29011172	83.98	61341898
2	ARS-BFGL-NGS-119079	83.98	61365176
2	ARS-BFGL-NGS-110203	83.98	61411345
2	Hapmap58378-rs29015037	83.98	61487742
2	ARS-BFGL-NGS-3831	83.98	61527377
2	Hapmap48387-BTA-55128	83.98	61585039
2	ARS-BFGL-NGS-109852	83.98	61611083
2	Hapmap41674-BTA-88236	83.98	61632431
2	ARS-BFGL-NGS-65334	83.98	61663100
2	Hapmap50002-BTA-47754	83.98	61735987
2	Hapmap39204-BTA-47760	83.98	61778818
2	BTA-47765-no-rs	83.98	61800404
2	ARS-BFGL-NGS-103465	83.98	61822538
2	ARS-BFGL-NGS-92772	83.98	61893116
2	Hapmap42558-BTA-47788	83.98	62008179
2	Hapmap48778-BTA-47791	83.98054	62038040
2	Hapmap59807-rs29011612	84.02699	62080553
2	Hapmap60325-rs29019351	84.05531	62106463
2	ARS-BFGL-NGS-60312	84.22935	62265739
2	Hapmap44202-BTA-115270	84.34001	62367003
2	ARS-BFGL-NGS-12099	84.42748	62447051
2	ARS-BFGL-NGS-106570	84.45335	62470718
2	Hapmap41276-BTA-47819	84.67506	62791288
2	ARS-BFGL-NGS-58238	84.67657	62827654
2	ARS-BFGL-NGS-102253	84.67764	62853776
2	ARS-BFGL-NGS-79494	84.67918	62890977
2	Hapmap39338-BTA-47826	84.68579	62952248
2	BTA-47828-no-rs	84.68932	62977592
2	Hapmap40999-BTA-47831	84.70815	63112798
2	ARS-BFGL-NGS-30962	84.71191	63139750
2	ARS-BFGL-NGS-115485	84.71769	63181292
2	ARS-BFGL-NGS-101408	84.73079	63275355
2	Hapmap23544-BTA-134040	84.73877	63332645
2	ARS-BFGL-NGS-35045	84.74198	63355675
2	BTA-02913-rs29010456	84.74976	63411488
2	ARS-BFGL-NGS-61102	84.75271	63432710
2	ARS-BFGL-NGS-100643	84.75654	63460235
2	BTA-47843-no-rs	84.76437	63516470
2	ARS-BFGL-NGS-117921	84.76928	63551705
2	Hapmap53388-rs29010903	84.77349	63581955
2	BTA-47853-no-rs	84.7895	63696865
2	ARS-BFGL-NGS-107635	84.80141	63782428
2	Hapmap53658-rs29027494	84.80869	63834656
2	Hapmap41884-BTA-47859	84.81365	63870312
2	ARS-BFGL-NGS-42334	84.81784	63900374
2	ARS-BFGL-NGS-118706	84.82452	63948276
2	Hapmap27582-BTA-134049	84.83028	63989724
2	BTA-47869-no-rs	84.8378	64043648
2	Hapmap51571-BTA-20582	84.85593	64173821
2	ARS-BFGL-NGS-85797	84.85943	64198992
2	Hapmap47221-BTA-22428	84.87358	64300614
2	Hapmap45413-BTA-20418	84.88004	64346990
2	ARS-BFGL-NGS-102881	84.88397	64375198

2	ARS-BFGL-NGS-91754	84.88732	64399273	
2	Hapmap41184-BTA-121229	84.89607	64462072	
2	ARS-BFGL-NGS-41523	84.89939	64485917	
2	BTA-53248-no-rs	85.12131	64549576	
2	Hapmap41290-BTA-53251	85.20093	64570902	
2	Hapmap40176-BTA-47878	85.97118	64944578	
2	ARS-BFGL-NGS-111934	86.09026	65004490	
2	ARS-BFGL-NGS-115279	86.11579	65017334	
2	ARS-BFGL-NGS-103410	86.15881	65038984	
2	ARS-BFGL-NGS-72192	86.16963	65044427	
2	ARS-USMARC-Parent-DQ422949-rs29011466	86.21854	65069037	
2	UA-IFASA-3968	86.21869	65069112	
2	Hapmap38501-BTA-47902	86.33856	65129428	
2	ARS-BFGL-NGS-35984	86.42355	65172196	
2	ARS-BFGL-NGS-55148	86.57621	65249007	
2	ARS-BFGL-NGS-100756	86.63705	65279621	
2	Hapmap57234-rs29024553	86.68115	65301812	
2	Hapmap47637-BTA-47889	86.76702	65345015	
2	ARS-BFGL-NGS-36544	86.90633	65415110	
2	ARS-BFGL-NGS-116582	86.94688	65435521	
2	ARS-BFGL-NGS-33412	87.01421	65469391	
2	ARS-BFGL-NGS-3180	87.05588	65489815	
2	ARS-BFGL-NGS-55238	87.10719	65513882	
2	ARS-BFGL-NGS-55924	87.18784	65551700	
2	BTA-47944-no-rs	87.23656	65574548	
2	ARS-BFGL-NGS-96204	87.29088	65600025	
2	Hapmap51598-BTA-47943	87.50607	65700940	
2	ARS-BFGL-NGS-102636	87.84953	65946493	
2	ARS-BFGL-NGS-110609	87.87029	65969723	
2	ARS-BFGL-NGS-33852	87.97503	66070654	
2	ARS-BFGL-NGS-24410	87.98603	66093445	
2	BTA-29589-no-rs	88.00737	66137636	
2	Hapmap41497-BTA-29595	88.02515	66174477	
2	ARS-BFGL-NGS-117458	88.09982	66329113	
2	ARS-BFGL-NGS-82679	88.14115	66414722	
2	BTA-29604-no-rs	88.1948	66525839	
2	ARS-BFGL-NGS-118876	88.5565	66585600	
2	Hapmap39925-BTA-47947	88.93564	66637714	
2	ARS-BFGL-NGS-71473	89.15302	66731640	
2	ARS-BFGL-NGS-59506	89.23212	66860284	
2	Hapmap60758-rs29010833	89.24	66885868	
2	BTA-47963-no-rs	89.24	66962526	
2	ARS-BFGL-NGS-70734	89.24	67055991	
2	ARS-BFGL-NGS-32707	89.24	67078207	
2	BTB-01332880	89.24	67130856	
2	BTB-01332833	89.24	67165879	
2	BTB-01332745	89.26879	67213974	
2	ARS-BFGL-NGS-118138	89.4445	67292723	
2	BTA-24669-no-rs	89.54063	67335802	
2	BTB-01332511	89.59827	67361632	
2	ARS-BFGL-NGS-95329	89.65622	67387596	
2	BTA-113895-no-rs	89.82743	67464330	
2	BTB-01689724	89.87272	67484628	
2	BTB-01730399	90.00224	67542665	
2	ARS-BFGL-NGS-38034	90.07492	67575238	
2	BTB-01953354	90.14079	67604758	
2	ARS-BFGL-NGS-112281	90.35772	67700266	
2	BTB-01601989	90.52812	67766127	
2	BTB-01654063	90.73941	67847791	

2	Hapmap44529-BTA-19193	90.86087	67894736	
2	BTB-01297051	91.19701	68024655	
2	Hapmap49519-BTA-19205	91.23	68058489	
2	ARS-BFGL-NGS-80573	91.23	68089041	
2	BTA-19206-no-rs	91.24974	68117012	
2	Hapmap44054-BTA-28998	91.25162	68119332	
2	BTB-01297138	91.28008	68154640	
2	ARS-BFGL-NGS-115732	91.30937	68190974	
2	Hapmap45359-BTA-47978	91.34184	68231252	
2	Hapmap51178-BTA-18113	91.36465	68259542	
2	Hapmap43407-BTA-93630	91.41382	68320540	
2	Hapmap41723-BTA-101688	91.46709	68386619	
2	BTB-01536946	91.50162	68429456	
2	BTA-101689-no-rs	91.56519	68508316	
2	BTB-01536920	91.57039	68514758	
2	BTB-01352031	91.59968	68551099	
2	BTB-01352059	91.60227	68554311	
2	BTB-01941823	91.62669	68584610	
2	BTA-27370-no-rs	91.71256	68691127	
2	ARS-BFGL-NGS-47229	91.73425	68718027	
2	Hapmap51555-BTA-115578	91.77579	68769557	
2	ARS-BFGL-BAC-40066	91.79675	68795555	
2	Hapmap32866-BTA-160457	91.81731	68821062	
2	BTB-01831918	91.84019	68849454	
2	Hapmap58976-rs29019573	91.86318	68877969	
2	BTB-01366705	91.89002	68911266	
2	BTA-68746-no-rs	92.23307	69336818	
2	BTB-00121016	92.25171	69359925	
2	BTB-00121025	92.27713	69391463	
2	BTB-00121035	92.29685	69415937	
2	BTA-48005-no-rs	92.31507	69438526	
2	ARS-BFGL-NGS-12128	92.37396	69511580	
2	BTA-11592-rs29017351	92.42101	69569936	
2	BTB-00121383	92.45822	69616051	
2	ARS-BFGL-NGS-80431	92.47616	69638270	
2	ARS-BFGL-NGS-90287	92.49611	69662990	
2	BTA-68918-no-rs	92.52805	69702569	
2	ARS-BFGL-NGS-119922	92.56925	69753620	
2	BTB-00121590	92.586	69774359	
2	Hapmap47485-BTA-107591	92.67374	69883074	
2	BTA-21857-no-rs	92.70157	69917549	
2	Hapmap30596-BTA-161397	92.71901	69939162	
2	ARS-BFGL-NGS-107266	92.86	70200269	
2	ARS-BFGL-NGS-105016	92.86	70299376	
2	Hapmap40748-BTA-47979	92.86	70322692	
2	Hapmap38837-BTA-43552	92.9142	70442711	
2	ARS-BFGL-NGS-95316	92.94696	70485741	
2	Hapmap49404-BTA-100549	93.01223	70559853	
2	BTB-01522343	93.07522	70582764	
2	Hapmap25231-BTA-120294	93.14943	70609758	
2	BTA-01132-rs29012099	93.23103	70639437	
2	ARS-BFGL-NGS-118417	93.30383	70665916	
2	ARS-BFGL-NGS-83221	93.45023	70719167	
2	Hapmap50975-BTA-47969	93.5457	70753898	
2	Hapmap35220-BES9_Contig365_495		93.93382	70895063
2	ARS-BFGL-NGS-20993	94.10469	70957217	
2	ARS-BFGL-NGS-26766	94.28719	71023597	
2	BTA-47992-no-rs	94.58698	71132639	
2	ARS-BFGL-NGS-35948	94.66526	71161113	

2	Hapmap40749-BTA-47991	94.73175	71185300	
2	ARS-BFGL-NGS-12123	94.87799	71238486	
2	ARS-BFGL-NGS-1606	95.03522	71295677	
2	ARS-BFGL-NGS-88046	95.27428	71382630	
2	ARS-BFGL-NGS-61695	95.34921	71409892	
2	ARS-BFGL-NGS-112141	95.49786	71463955	
2	Hapmap40177-BTA-47989	95.64662	71518065	
2	ARS-BFGL-NGS-105719	95.77591	71565086	
2	ARS-BFGL-NGS-103138	95.86723	71598307	
2	ARS-BFGL-NGS-114814	95.96169	71632662	
2	ARS-BFGL-NGS-12877	96.02946	71657308	
2	ARS-BFGL-NGS-200	96.17542	71710397	
2	BTB-01611164	96.23808	71733190	
2	ARS-BFGL-NGS-58619	96.36656	71779928	
2	ARS-BFGL-NGS-16745	96.49915	71848377	
2	ARS-BFGL-NGS-22157	96.60538	71906695	
2	ARS-BFGL-NGS-26704	96.64395	71927870	
2	ARS-BFGL-NGS-101411	97.07324	72163562	
2	Hapmap45428-BTA-47987	97.16612	72214554	
2	ARS-BFGL-NGS-1934	97.2	72324157	
2	ARS-BFGL-NGS-85372	97.2	72369610	
2	ARS-BFGL-NGS-48402	97.2	72445788	
2	ARS-BFGL-NGS-29723	97.2	72583890	
2	ARS-BFGL-NGS-114696	97.2	72609348	
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2	Hapmap58183-rs29021995	97.2	72731338	
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2	ARS-BFGL-NGS-86652	97.2	72790595	
2	ARS-BFGL-NGS-17953	97.2	72814849	
2	ARS-BFGL-NGS-15738	97.2	72969060	
2	ARS-BFGL-NGS-108527	97.2	73003429	
2	ARS-BFGL-NGS-81871	97.2	73165500	
2	ARS-BFGL-NGS-43775	97.2	73209337	
2	ARS-BFGL-NGS-39860	97.2	73234975	
2	ARS-BFGL-NGS-80861	97.21499	73274348	
2	ARS-BFGL-NGS-110099	97.30068	73305257	
2	ARS-BFGL-NGS-25338	97.59689	73412080	
2	Hapmap25319-BTA-156716	97.7541	73509732	
2	BTA-113411-no-rs	97.80156	73545521	
2	Hapmap38063-BTA-24769	97.86768	73595375	
2	ARS-BFGL-NGS-69450	97.94493	73653622	
2	Hapmap54942-rs29012113	98.05168	73734113	
2	ARS-BFGL-NGS-15669	98.48811	74063186	
2	ARS-BFGL-NGS-106694	98.53947	74101924	
2	ARS-BFGL-NGS-114498	98.57727	74130414	
2	Hapmap23430-BTA-134149	98.67661	74205319	
2	ARS-BFGL-NGS-38139	98.7074	74228539	
2	ARS-BFGL-NGS-47830	98.78802	74289327	
2	ARS-BFGL-NGS-110318	98.8457	74332820	
2	ARS-BFGL-NGS-38374	98.9194	74388391	
2	Hapmap23997-BTA-145416	98.96441	74422326	
2	ARS-BFGL-NGS-104166	99.13177	74548518	
2	Hapmap43713-BTA-86767	99.47279	74805654	
2	ARS-BFGL-NGS-51807	99.56827	74877647	
2	ARS-BFGL-NGS-23847	99.73208	75001159	
2	Hapmap34364-BES1_Contig549_1508		99.79903	75051646
2	Hapmap32368-BTA-157293	99.89849	75126638	
2	Hapmap39129-BTA-115423	100.085	75315966	

2	Hapmap51098-BTA-96589	100.2184	75484794
2	Hapmap50173-BTA-96591	100.2669	75546229
2	ARS-BFGL-NGS-32559	100.4075	75724252
2	BTA-96598-no-rs	100.535	75885774
2	BTA-96600-no-rs	100.5553	75911450
2	BTA-96609-no-rs	100.6533	76035542
2	Hapmap24002-BTA-150995	100.6955	76088949
2	BTA-96614-no-rs	100.7143	76112733
2	ARS-BFGL-NGS-69160	100.733	76136460
2	Hapmap60737-rs29018861	100.7949	76214807
2	ARS-BFGL-NGS-104820	100.8388	76270430
2	UA-IFASA-4619	100.8693	76309053
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2	Hapmap43512-BTA-21374	100.9129	76364258
2	BTB-01313469	100.9288	76384320
2	ARS-BFGL-NGS-78520	100.9417	76400643
2	BTB-01313376	100.9592	76422853
2	ARS-BFGL-NGS-102866	101.0347	76518493
2	BTB-02066351	101.07	76563133
2	Hapmap50277-BTA-20931	101.0967	76597004
2	ARS-BFGL-NGS-106237	101.1289	76637668
2	Hapmap42472-BTA-21372	101.1591	76675977
2	BTB-01313103	101.1759	76697276
2	BTB-00917603	101.2022	76730474
2	BTB-00917506	101.2254	76759957
2	Hapmap54422-rs29021731	101.2699	76816294
2	ARS-BFGL-NGS-83161	101.2985	76852429
2	ARS-BFGL-NGS-83348	101.3234	76884059
2	Hapmap38907-BTA-70141	101.4053	76987725
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2	BTA-48073-no-rs	101.5022	77110357
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2	BTB-00103137	101.5746	77202062
2	ARS-BFGL-NGS-111158	101.5939	77226464
2	BTB-00102936	101.6435	77289259
2	Hapmap52707-rs29020755	101.6842	77340874
2	BTB-02007152	101.747	77420390
2	Hapmap44226-BTA-29223	101.766	77444377
2	BTB-00102663	101.8231	77516653
2	BTB-01745174	101.853	77554557
2	ARS-BFGL-NGS-65669	101.876	77583642
2	Hapmap43274-BTA-48044	101.9048	77620108
2	BTB-00102386	101.9433	77668964
2	BTA-48043-no-rs	101.9833	77719508
2	BTB-00102353	102.0178	77763225
2	BTB-00102335	102.0415	77793201
2	Hapmap42752-BTA-98939	102.0978	77864486
2	BTA-98942-no-rs	102.126	77900295
2	BTB-01516389	102.2103	78007011
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2	BTB-01516197	102.2514	78059039
2	Hapmap49399-BTA-99938	102.2773	78091766
2	BTB-01516039	102.3061	78128247
2	BTA-102943-no-rs	102.3365	78166743
2	Hapmap41407-BTA-102938	102.3624	78199553
2	BTB-01549373	102.4073	78256366
2	BTB-01720563	102.4262	78280305

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2	BTB-01767855	102.5	78433731	
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2	BTB-00103401	102.5074	78556325	
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2	BTB-00103489	102.5139	78604521	
2	Hapmap25645-BTA-48106	102.5171	78628109	
2	BTB-01860738	102.5255	78691609	
2	BTB-01860839	102.5302	78726622	
2	BTB-00103543	102.5332	78749162	
2	BTB-00103581	102.5416	78801934	
2	ARS-BFGL-NGS-5148	102.5697	78839135	
2	BTB-01374180	102.5946	78872254	
2	BTB-01374162	102.6104	78893301	
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2	ARS-BFGL-NGS-116036	102.6862	78993931	
2	Hapmap24266-BTA-29850	102.7043	79017908	
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2	BTB-01809666	102.9109	79090198	
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2	ARS-BFGL-NGS-37942	103.1877	79179255	
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2	ARS-BFGL-NGS-110862	103.3913	79257749	
2	ARS-BFGL-NGS-118432	103.4433	79295953	
2	Hapmap33049-BTA-153946	103.4766	79320427	
2	ARS-BFGL-NGS-33744	103.5686	79388083	
2	ARS-BFGL-NGS-65317	103.6043	79414331	
2	Hapmap39881-BTA-105105	103.6772	79467938	
2	ARS-BFGL-NGS-117618	103.7091	79491364	
2	ARS-BFGL-NGS-112785	103.7577	79527086	
2	Hapmap43710-BTA-86183	103.9471	79846105	
2	ARS-BFGL-NGS-94630	103.961	79893482	
2	Hapmap35064-BES1_Contig468_700		103.9698	79923716
2	Hapmap51332-BTA-86182	103.9765	79946595	
2	ARS-BFGL-NGS-38368	104.0051	80044248	
2	ARS-BFGL-NGS-114651	104.0204	80096393	
2	ARS-BFGL-NGS-84024	104.0312	80133105	
2	BTA-86188-no-rs	105.37	80201648	
2	BTA-86190-no-rs	105.37	80247378	
2	Hapmap34302-BES7_Contig241_1853		105.37	80298164
2	Hapmap33855-BES7_Contig421_544		105.37	80335082
2	Hapmap55553-ss46526243	105.3773	80369206	
2	ARS-BFGL-NGS-105974	105.4203	80426417	
2	Hapmap48925-BTA-86217	105.4394	80451862	
2	Hapmap51692-BTA-119034	105.5079	80542965	
2	Hapmap45521-BTA-94820	105.5277	80569319	
2	ARS-BFGL-NGS-41490	105.555	80605588	
2	ARS-BFGL-NGS-5680	105.6004	80666057	
2	Hapmap50262-BTA-122131	105.6167	80687709	
2	Hapmap36352-SCAFFOLD95077_3499		105.7682	80889253
2	ARS-BFGL-NGS-94696	105.8293	80970515	
2	ARS-BFGL-NGS-102243	105.8534	81002535	
2	Hapmap50978-BTA-48134	105.8913	81053048	
2	Hapmap41554-BTA-48125	105.9515	81133028	
2	Hapmap42104-BTA-121232	105.9715	81159639	



2	Hapmap46066-BTA-25653	106.0292	81236428	
2	BTA-89488-no-rs	106.2775	81566785	
2	Hapmap38874-BTA-105832	106.6479	82059515	
2	Hapmap45703-BTA-105835	106.6661	82083660	
2	ARS-BFGL-NGS-12949	106.6936	82120303	
2	ARS-BFGL-NGS-71649	107.03	82654093	
2	Hapmap60088-rs29027650	107.03	82707674	
2	BTA-48254-no-rs	107.03	82786614	
2	Hapmap42031-BTA-04949	107.03	82808175	
2	Hapmap38231-BTA-48248	107.048	82851585	
2	BTA-48291-no-rs	107.245	83029887	
2	BTA-48296-no-rs	107.2678	83050544	
2	Hapmap26991-BTA-151076	107.5642	83349093	
2	ARS-BFGL-NGS-55339	107.7523	83616368	
2	BTA-114135-no-rs	107.772	83814330	
2	BTA-114131-no-rs	107.7825	83919557	
2	Hapmap51150-BTA-114149	107.7943	84038555	
2	Hapmap35509-SCAFFOLD109829_3725		107.8023	84119190
2	Hapmap26980-BTA-149220	107.8074	84170290	
2	BTA-19428-no-rs	107.8139	84235779	
2	ARS-BFGL-NGS-8503	107.8276	84373550	
2	Hapmap55911-rs29026510	107.8652	84751796	
2	ARS-BFGL-NGS-117030	107.8718	84807787	
2	ARS-BFGL-NGS-5831	107.88	84906141	
2	Hapmap47638-BTA-47957	108.0187	85026752	
2	BTA-02686-no-rs	108.0656	85059828	
2	Hapmap32559-BTA-134272	108.8634	85362275	
2	Hapmap46704-BTA-48392	109.0312	85427167	
2	ARS-BFGL-NGS-108914	109.0955	85452055	
2	ARS-BFGL-NGS-114269	109.2827	85524425	
2	Hapmap43275-BTA-48394	109.3639	85555825	
2	ARS-BFGL-NGS-33177	109.4415	85585849	
2	Hapmap47969-BTA-48395	109.7368	85700057	
2	Hapmap38073-BTA-48398	109.8817	85756053	
2	ARS-BFGL-NGS-3974	110.11	85918370	
2	ARS-BFGL-NGS-147	110.1515	86035295	
2	ARS-BFGL-NGS-118956	110.1712	86085303	
2	Hapmap48897-BTA-79849	110.1858	86122073	
2	BTA-31127-no-rs	110.2087	86180184	
2	ARS-BFGL-NGS-105950	110.2479	86279265	
2	BTA-48332-no-rs	110.2592	86307970	
2	BTA-45265-no-rs	110.3228	86468840	
2	Hapmap49925-BTA-24427	110.4159	86704498	
2	BTA-90292-no-rs	110.4659	86831095	
2	BTA-90298-no-rs	110.4906	86868918	
2	Hapmap38934-BTA-117244	110.5208	86909355	
2	Hapmap41106-BTA-90288	110.5581	86959111	
2	ARS-BFGL-NGS-55270	110.592	87004473	
2	ARS-BFGL-NGS-34383	110.6535	87086641	
2	ARS-BFGL-NGS-32625	110.6701	87108690	
2	ARS-BFGL-NGS-100636	110.6884	87133202	
2	BTA-85504-no-rs	110.7595	87228147	
2	BTA-85505-no-rs	110.7821	87258372	
2	Hapmap51556-BTA-116563	111.147	87745840	
2	ARS-BFGL-NGS-94983	111.2958	87944722	
2	ARS-BFGL-NGS-119235	111.4589	88162563	
2	Hapmap53419-rs29015159	111.5092	88205436	
2	Hapmap35020-BES8_Contig415_403		111.9649	88434967
2	ARS-BFGL-NGS-87101	112.0105	88462321	

2	ARS-BFGL-NGS-37296	112.0152	88511266	
2	Hapmap33966-BES2_Contig368_774	112.0185		88545567
2	ARS-BFGL-NGS-115594	112.022	88582171	
2	ARS-BFGL-NGS-106192	112.0246	88609199	
2	BTA-48371-no-rs	112.0333	88698628	
2	Hapmap39700-BTA-93776	112.0552	88925365	
2	ARS-BFGL-NGS-40189	112.0633	89008935	
2	Hapmap40899-BTA-119486	112.0711	89090134	
2	ARS-BFGL-NGS-87633	112.0857	89240442	
2	ARS-BFGL-NGS-110835	112.0986	89374373	
2	Hapmap51113-BTA-100127	112.1054	89444485	
2	ARS-BFGL-NGS-34371	112.1087	89478521	
2	ARS-BFGL-NGS-100793	112.1236	89632673	
2	ARS-BFGL-NGS-118468	112.1308	89707126	
2	ARS-BFGL-NGS-26540	112.1352	89752875	
2	ARS-BFGL-NGS-102616	112.1376	89778173	
2	ARS-BFGL-NGS-109793	112.1399	89801146	
2	ARS-BFGL-NGS-15250	112.1441	89845085	
2	ARS-BFGL-NGS-116553	112.1475	89879889	
2	ARS-BFGL-NGS-117117	112.1524	89931378	
2	Hapmap27565-BTA-101823	112.1673	90085321	
2	BTA-118857-no-rs	112.17	90112552	
2	ARS-BFGL-NGS-102842	112.184	90257472	
2	ARS-BFGL-NGS-113881	112.1905	90325351	
2	ARS-BFGL-NGS-116169	112.1934	90355514	
2	ARS-BFGL-NGS-18347	112.1959	90381185	
2	BTA-48377-no-rs	112.2101	90527996	
2	Hapmap52343-rs29017242	112.2217	90647574	
2	ARS-BFGL-NGS-25165	112.2372	90808788	
2	ARS-BFGL-NGS-28347	112.2459	90897881	
2	ARS-BFGL-NGS-26907	112.2617	91061862	
2	ARS-BFGL-NGS-43977	112.2671	91117564	
2	ARS-BFGL-NGS-20350	112.2772	91221891	
2	Hapmap33033-BTA-149123	112.306	91520420	
2	ARS-BFGL-NGS-53141	112.3423	91895929	
2	Hapmap43523-BTA-24093	112.3565	92042146	
2	ARS-BFGL-NGS-35056	112.3602	92080445	
2	Hapmap51704-BTA-24101	112.3647	92127717	
2	Hapmap40056-BTA-24104	112.3694	92176063	
2	Hapmap49625-BTA-48411	112.3839	92326427	
2	ARS-BFGL-NGS-25774	112.3862	92350004	
2	Hapmap42563-BTA-48403	112.3943	92433589	
2	Hapmap34940-BES2_Contig197_1060	112.4021		92514726
2	BTA-24303-no-rs	112.4113	92610012	
2	BTA-98430-no-rs	112.4195	92694753	
2	ARS-BFGL-NGS-3488	112.4216	92715999	
2	ARS-BFGL-NGS-110314	112.4255	92756977	
2	ARS-BFGL-NGS-33666	112.4294	92796573	
2	ARS-BFGL-NGS-92633	112.4325	92828714	
2	Hapmap26718-BTA-151140	112.4385	92891116	
2	ARS-BFGL-NGS-83045	112.4417	92923678	
2	ARS-BFGL-NGS-25561	112.4442	92950410	
2	ARS-BFGL-NGS-46633	112.4494	93003339	
2	ARS-BFGL-NGS-43811	112.4527	93038227	
2	ARS-BFGL-NGS-40833	112.4554	93065483	
2	ARS-BFGL-NGS-47406	112.463	93144357	
2	Hapmap49462-BTA-115124	112.4709	93226539	
2	ARS-BFGL-NGS-111012	112.4737	93255549	
2	BTA-115090-no-rs	112.4769	93288386	

2	ARS-BFGL-NGS-3031	112.4848	93369611	
2	Hapmap50235-BTA-115103	112.4917	93441283	
2	Hapmap35338-VSWAP1E1185A_scf01		112.4979	93505187
2	ARS-BFGL-NGS-55602	112.5071	93600676	
2	Hapmap35872-SCAFFOLD260252_27183		112.5117	93648118
2	ARS-BFGL-NGS-29095	112.514	93672568	
2	ARS-BFGL-NGS-22760	112.5259	93795054	
2	ARS-BFGL-NGS-102205	112.5347	93885846	
2	ARS-BFGL-NGS-31922	112.542	93961513	
2	ARS-BFGL-NGS-117556	112.5512	94057043	
2	Hapmap34795-BES5_Contig306_381		112.5554	94100569
2	Hapmap49408-BTA-101235	112.5704	94255738	
2	Hapmap53672-rs29025245	112.5761	94314937	
2	ARS-BFGL-NGS-2970	112.5851	94407497	
2	ARS-BFGL-NGS-55742	112.5922	94481602	
2	ARS-BFGL-NGS-21761	112.5974	94534831	
2	Hapmap50705-BTA-48425	112.6012	94574351	
2	Hapmap41195-BTA-17655	112.6038	94601236	
2	ARS-BFGL-NGS-73869	112.6136	94702739	
2	ARS-BFGL-NGS-109871	112.6193	94761274	
2	ARS-BFGL-NGS-101080	112.6235	94804682	
2	Hapmap53544-rs29023487	112.6294	94865712	
2	Hapmap50979-BTA-48487	112.649	95069313	
2	Hapmap42564-BTA-48483	112.651	95090044	
2	BTA-48480-no-rs	112.6539	95119968	
2	ARS-BFGL-NGS-3705	112.656	95141342	
2	ARS-BFGL-NGS-23872	112.6617	95199905	
2	ARS-BFGL-NGS-19042	112.6661	95245853	
2	BTA-48582-no-rs	112.6827	95418050	
2	BTA-48579-no-rs	112.6872	95463866	
2	ARS-BFGL-NGS-98354	112.6919	95512347	
2	Hapmap45109-BTA-48575	112.6948	95542575	
2	Hapmap47020-BTA-48569	112.7109	95709778	
2	Hapmap33198-BTA-134378	112.7151	95752707	
2	ARS-BFGL-NGS-36683	112.7256	95861435	
2	Hapmap30797-BTA-134377	112.7278	95884143	
2	ARS-BFGL-NGS-103501	112.741	96021111	
2	Hapmap43277-BTA-48796	112.7546	96161196	
2	ARS-BFGL-NGS-33331	112.7766	96388684	
2	ARS-BFGL-NGS-100369	112.7787	96410491	
2	ARS-BFGL-NGS-29309	112.7869	96495311	
2	Hapmap51953-BTA-48787	112.7941	96570370	
2	ARS-BFGL-NGS-4709	112.7982	96612179	
2	ARS-BFGL-NGS-48317	112.8065	96698667	
2	ARS-BFGL-NGS-1113	112.8091	96725242	
2	ARS-BFGL-NGS-24608	112.8219	96857370	
2	Hapmap38603-BTA-48461	112.8252	96891951	
2	BTA-48456-no-rs	112.8289	96930005	
2	UA-IFASA-7039	112.8312	96953499	
2	Hapmap39155-BTA-48449	112.836	97003748	
2	UA-IFASA-5772	112.8382	97026818	
2	ARS-BFGL-NGS-99780	112.8452	97098833	
2	Hapmap44082-BTA-48435	112.8485	97133448	
2	ARS-BFGL-NGS-31792	112.8518	97166703	
2	ARS-BFGL-NGS-115142	112.8712	97368169	
2	ARS-BFGL-NGS-26395	112.8799	97457613	
2	Hapmap61031-rs29027609	112.9558	97794765	
2	Hapmap22958-BTA-48415	112.9704	97828486	
2	UA-IFASA-5660	112.9848	97861814	

2	ARS-BFGL-NGS-113475	113.0143	97929853	
2	Hapmap48357-BTA-48473	113.0445	97999640	
2	ARS-BFGL-NGS-5965	113.0765	98073699	
2	ARS-BFGL-NGS-99030	113.1139	98160191	
2	Hapmap35729-SCAFFOLD86037_6323		113.1285	98193994
2	ARS-BFGL-NGS-3990	113.1387	98217598	
2	ARS-BFGL-NGS-107381	113.1605	98268164	
2	Hapmap34329-BES11_Contig247_1378		113.4102	98446391
2	ARS-BFGL-NGS-67961	113.5018	98490521	
2	ARS-BFGL-NGS-12630	113.5218	98522351	
2	ARS-BFGL-NGS-101219	113.5584	98580745	
2	ARS-BFGL-NGS-97871	113.6123	98666598	
2	ARS-BFGL-NGS-6067	113.6735	98764258	
2	UA-IFASA-4555	113.7102	98822877	
2	ARS-BFGL-NGS-43366	113.783	98938838	
2	Hapmap29650-BTA-146970	114.0049	99292729	
2	ARS-BFGL-NGS-10610	114.0713	99398654	
2	ARS-BFGL-NGS-17723	114.1923	99591588	
2	Hapmap49348-BTA-85365	114.3512	99845066	
2	ARS-BFGL-NGS-36958	114.374	99881355	
2	BTA-121937-no-rs	114.4005	99923629	
2	BTA-07769-no-rs	114.565	100185941	
2	BTA-05855-no-rs	114.584	100216300	
2	Hapmap52627-rs29014567	114.6201	100273809	
2	ARS-BFGL-NGS-29467	114.6844	100376419	
2	ARS-BFGL-NGS-103616	114.7038	100407427	
2	Hapmap43786-BTA-120600	114.7173	100428814	
2	Hapmap48209-BTA-120609	115.207	100950039	
2	ARS-BFGL-NGS-113504	115.3614	101089845	
2	ARS-BFGL-NGS-25939	115.5442	101255449	
2	ARS-BFGL-NGS-10239	115.6016	101307425	
2	Hapmap39708-BTA-106258	115.7148	101409902	
2	BTA-27937-no-rs	115.9179	101593916	
2	ARS-BFGL-NGS-13829	115.9655	101636994	
2	ARS-BFGL-NGS-100077	116.13	101835294	
2	Hapmap40933-BTA-27209	116.13	101949550	
2	Hapmap48190-BTA-114376	116.13	102019770	
2	ARS-BFGL-NGS-60714	116.13	102060979	
2	Hapmap36094-SCAFFOLD96944_22403		116.13	102214656
2	ARS-BFGL-NGS-94750	116.2951	102611374	
2	Hapmap40319-BTA-19899	116.3313	102634206	
2	BTA-92857-no-rs	116.4729	102723466	
2	Hapmap41556-BTA-48495	116.5508	102772529	
2	ARS-BFGL-NGS-102802	116.6354	102825867	
2	BTA-48498-no-rs	116.7373	102906006	
2	BTA-27081-no-rs	116.7715	102947494	
2	BTA-48503-no-rs	116.7997	102981611	
2	ARS-BFGL-NGS-17875	116.9088	103113956	
2	Hapmap44084-BTA-48504	116.9862	103207828	
2	Hapmap50215-BTA-111911	117.047	103281621	
2	ARS-BFGL-NGS-10767	117.1086	103349600	
2	BTA-48534-no-rs	117.2325	103470685	
2	Hapmap49191-BTA-48538	117.2542	103491995	
2	ARS-BFGL-NGS-3072	117.2918	103528661	
2	BTA-05667-rs29019825	117.3568	103592247	
2	ARS-BFGL-BAC-5705	117.4749	103707675	
2	ARS-BFGL-BAC-35929	117.4994	103731623	
2	UA-IFASA-6155	117.688	103916046	
2	BTA-48084-no-rs	117.7694	103995601	

2	ARS-BFGL-NGS-23725	117.8009	104026376
2	Hapmap50004-BTA-48076	117.859	104083149
2	ARS-BFGL-BAC-35925	117.9231	104145868
2	BTA-97778-no-rs	118.0366	104256806
2	ARS-BFGL-NGS-30643	118.0784	104297699
2	ARS-BFGL-NGS-75769	118.1317	104349734
2	ARS-BFGL-NGS-103574	118.1897	104406422
2	Hapmap60280-rs29012262	118.2564	104471715
2	ARS-BFGL-NGS-113466	118.26	104518495
2	ARS-BFGL-NGS-67929	118.26	104555063
2	Hapmap49192-BTA-48601	118.26	104637671
2	ARS-BFGL-NGS-110763	118.26	104667832
2	ARS-BFGL-NGS-37100	118.26	104761159
2	ARS-BFGL-NGS-117120	118.26	104800752
2	ARS-BFGL-NGS-105151	118.26	104870344
2	BTB-01889889	118.288	104905603
2	BTB-01889790	118.3097	104927056
2	ARS-BFGL-NGS-18907	118.3417	104958751
2	ARS-BFGL-NGS-21251	118.3902	105006704
2	BTA-48618-no-rs	118.4172	105033439
2	Hapmap40546-BTA-48622	118.4565	105072308
2	Hapmap42565-BTA-48634	118.5182	105133414
2	ARS-BFGL-NGS-116538	118.5551	105169858
2	ARS-BFGL-NGS-35963	118.5785	105193025
2	ARS-BFGL-NGS-3947	118.6326	105246554
2	ARS-BFGL-NGS-115558	118.6702	105283819
2	BTA-48544-no-rs	118.6961	105309359
2	Hapmap43276-BTA-48540	118.7381	105350965
2	DPI-42	118.7696	105382162
2	ARS-BFGL-NGS-108514	118.9101	105521127
2	Hapmap47971-BTA-48835	118.9532	105563861
2	ARS-BFGL-NGS-31901	118.9918	105602018
2	ARS-BFGL-NGS-100821	119.0572	105666691
2	ARS-BFGL-NGS-86172	119.0784	105687751
2	Hapmap47972-BTA-48849	119.1281	105736858
2	ARS-BFGL-NGS-30149	119.2053	105813306
2	INRA-475	119.2533	105860790
2	ARS-BFGL-NGS-114318	119.2936	105900619
2	BTA-48808-no-rs	119.4588	106064085
2	Hapmap47315-BTA-48803	119.5613	106165589
2	Hapmap49626-BTA-48806	119.6751	106278210
2	ARS-BFGL-NGS-105142	119.7086	106311320
2	Hapmap47970-BTA-48811	119.8065	106408159
2	ARS-BFGL-NGS-110823	119.8645	106465563
2	ARS-BFGL-NGS-108614	119.9257	106526130
2	ARS-BFGL-NGS-83734	119.9497	106549887
2	ARS-BFGL-NGS-95894	119.9728	106572790
2	BTB-00107988	120.0053	106604939
2	UA-IFASA-7600	120.0282	106630122
2	UA-IFASA-5357	120.0581	106663843
2	BTA-48822-no-rs	120.0813	106689988
2	ARS-BFGL-NGS-36309	120.1147	106727608
2	ARS-BFGL-NGS-4394	120.1535	106771386
2	ARS-BFGL-NGS-3684	120.2889	106924044
2	BTA-48880-no-rs	120.3141	106952479
2	BTA-48881-no-rs	120.3425	106984473
2	Hapmap60413-ss46526389	120.3616	107005982
2	BTB-00108859	120.4236	107075915
2	ARS-BFGL-NGS-102918	120.4483	107103755

2	Hapmap31750-BTA-134395	120.5061	107168923
2	Hapmap33477-BTA-134394	120.6101	107286209
2	ARS-BFGL-NGS-116634	120.6384	107318080
2	ARS-BFGL-NGS-5566	120.6921	107378666
2	Hapmap38321-BTA-48884	120.7197	107409737
2	BTB-00108873	120.7402	107432879
2	BTB-00108904	120.7602	107455392
2	BTB-00108937	120.7808	107478590
2	ARS-BFGL-NGS-116461	120.8044	107505296
2	ARS-BFGL-NGS-41507	120.8255	107529096
2	ARS-BFGL-NGS-108395	120.8488	107555316
2	Hapmap48213-BTA-121240	120.8748	107584640
2	ARS-BFGL-NGS-20052	120.9034	107616903
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2	ARS-BFGL-NGS-31902	121.019	107799001
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2	Hapmap50373-BTA-48875	121.5777	108056708
2	Hapmap56966-ss46526654	121.716	108120531
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2	ARS-BFGL-NGS-109206	122.0389	108269454
2	BTB-00108243	122.1491	108342493
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2	ARS-BFGL-NGS-82228	122.1739	108414809
2	BTB-00109619	122.1817	108437574
2	ARS-BFGL-NGS-72876	122.1911	108464952
2	BTB-00109560	122.1984	108486036
2	ARS-BFGL-NGS-99327	122.2132	108529237
2	ARS-BFGL-NGS-14681	122.2201	108549488
2	Hapmap53684-rs29025784	122.26	108665467
2	BTA-09704-no-rs	122.2961	108770660
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2	Hapmap49392-BTA-97343	122.3212	108843619
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2	BTB-01307478	122.3746	108999223
2	BTB-01307462	122.3819	109020542
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2	BTA-48931-no-rs	122.4199	109131224
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2	BTA-48930-no-rs	122.4501	109219004
2	Hapmap49627-BTA-48925	122.4619	109253408
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2	BTB-00110958	122.5933	109636110
2	BTB-00110886	122.6018	109660849
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2	Hapmap52138-rs29018607	122.7849	110193985	
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2	BTB-00110046	122.8824	110477897	
2	BTB-01169423	122.9104	110559605	
2	BTB-01169886	122.9237	110598183	
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2	BTB-01169774	122.9478	110668292	
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2	ARS-BFGL-NGS-110787	123.5466	111403362	
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2	Hapmap41836-BTA-34506	124.214	111892669	
2	BTB-00551399	124.2589	111929156	
2	Hapmap42518-BTA-34464	124.3004	111962847	
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2	BTA-34427-no-rs	124.375	112023474	
2	BTB-00551233	124.4417	112077687	
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2	BTB-00427067	124.5279	112147748	
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2	BTB-00111467	124.6769	112268897	
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2	ARS-BFGL-NGS-30241	124.7785	112351426	
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2	BTB-00111799	124.8532	112418955	
2	Hapmap39834-BTA-49029	124.8613	112442388	
2	BTB-00111863	124.8685	112463321	
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2	Hapmap46209-BTA-28196	124.8864	112515240	
2	BTA-49040-no-rs	124.9265	112631781	

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2	Hapmap56132-ss46526950	125.0729	112870086
2	ARS-BFGL-NGS-23793	125.1236	112929325
2	BTB-00112740	125.1463	112955917
2	BTA-49059-no-rs	125.1762	112990834
2	ARS-BFGL-NGS-12225	125.218	113039609
2	BTB-00112997	125.2395	113064768
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2	ARS-BFGL-NGS-68289	125.4	113287376
2	ARS-BFGL-NGS-6012	125.4	113321109
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2	BTB-01879927	125.4	113380075
2	BTA-115216-no-rs	125.4	113419747
2	BTA-115218-no-rs	125.4	113442348
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2	ARS-BFGL-NGS-18886	125.4	113655775
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2	ARS-BFGL-NGS-97763	125.4912	113852386
2	Hapmap54594-rs29019168	125.5442	113899270
2	BTB-01145402	125.5978	113946668
2	Hapmap48541-BTA-97822	125.6367	113981115
2	Hapmap33101-BTA-97812	125.6673	114008133
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2	ARS-BFGL-NGS-43428	125.7262	114060265
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2	BTA-19993-no-rs	126.0445	114352128
2	ARS-BFGL-NGS-5017	126.0733	114380742
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2	Hapmap51816-BTA-20000	126.1379	114444914
2	BTA-20032-no-rs	126.1706	114477377
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2	Hapmap46266-BTA-98535	126.3334	114639084
2	ARS-BFGL-NGS-67309	126.4054	114710664
2	Hapmap41658-BTA-83101	126.4705	114775268
2	BTA-122435-no-rs	126.4932	114797868
2	BTA-110873-no-rs	126.5263	114830722
2	BTA-110884-no-rs	126.5493	114853606
2	ARS-BFGL-NGS-25010	126.9426	114935170
2	BTB-01343471	126.9647	114986911
2	Hapmap48268-BTA-26250	126.9977	115063928
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2	ARS-BFGL-NGS-1630	127.0229	115122795
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2	Hapmap30864-BTA-157170	127.0675	115227024
2	Hapmap49461-BTA-115001	127.0834	115264249



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2	ARS-BFGL-NGS-95256	127.1738	115475433
2	Hapmap45649-BTA-29691	127.206	115550814
2	Hapmap42778-BTA-105679	127.2178	115578336
2	BTA-105674-no-rs	127.2316	115610580
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2	ARS-BFGL-NGS-102003	127.3088	115791101
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2	ARS-BFGL-NGS-21107	127.3899	115973199
2	Hapmap45112-BTA-52425	127.4472	116064542
2	UA-IFASA-8833	127.4613	116087072
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2	Hapmap52537-rs29011369	127.5389	116210744
2	BTB-00113596	127.5705	116261117
2	ARS-BFGL-NGS-94004	127.5906	116293266
2	BTB-00113625	127.6057	116317216
2	BTB-00113683	127.6371	116367423
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2	ARS-BFGL-BAC-35548	127.706	116477222
2	BTA-49096-no-rs	127.7245	116506798
2	ARS-BFGL-NGS-30337	127.7468	116542326
2	ARS-BFGL-NGS-103753	127.8008	116628431
2	Hapmap54770-rs29009608	127.8373	116686650
2	BTA-106396-no-rs	127.8864	116764893
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2	ARS-BFGL-NGS-107330	127.9272	116829914
2	Hapmap38323-BTA-49132	127.9557	116875401
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2	BTA-103078-no-rs	128.0327	116998234
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2	BTA-95472-no-rs	128.07	117233854
2	Hapmap54608-rs29020417	128.07	117241148
2	ARS-BFGL-BAC-27299	128.07	117267277
2	Hapmap40169-BTA-20295	128.3229	117429603
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2	ARS-BFGL-NGS-15373	128.5799	117575646
2	BTA-20298-no-rs	128.6355	117735021
2	BTA-109699-no-rs	128.6616	117809766
2	BTA-98420-no-rs	128.6952	117905953
2	ARS-BFGL-NGS-317	128.7092	117946210
2	ARS-BFGL-NGS-89183	128.7218	117982134
2	Hapmap48544-BTA-98418	128.7469	118054344
2	BTA-94835-no-rs	128.7735	118130312
2	ARS-BFGL-NGS-31620	128.804	118217699
2	ARS-BFGL-NGS-89972	128.9308	118581255
2	ARS-BFGL-NGS-67146	128.9952	118773633
2	Hapmap48359-BTA-49135	129.0117	118824462
2	ARS-BFGL-NGS-41173	129.0352	118897146
2	ARS-BFGL-BAC-2444	129.0466	118932435
2	Hapmap51734-BTA-49164	129.0577	118966618
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2	Hapmap54936-rs29013679	129.1939	119387551

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2	ARS-BFGL-NGS-101286	129.3499	119869465	
2	BTA-99195-no-rs	129.3708	119934010	
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2	ARS-BFGL-NGS-118696	129.395	120008794	
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2	ARS-BFGL-NGS-27277	129.4488	120174934	
2	ARS-BFGL-NGS-31836	129.464	120221738	
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2	ARS-BFGL-NGS-112016	129.5056	120350282	
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2	Hapmap42569-BTA-49229	129.5408	120459026	
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2	BTA-49454-no-rs	129.8322	120914934	
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2	ARS-BFGL-NGS-83173	130.1904	120975500	
2	Hapmap38678-BTA-49219	130.3902	121009297	
2	Hapmap40117-BTA-28672	131.0754	121125169	
2	ARS-BFGL-NGS-100507	131.5007	121197096	
2	Hapmap36148-SCAFFOLD76057_3389		131.6942	121229824
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2	BTA-49198-no-rs	131.8941	121289591	
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2	ARS-BFGL-NGS-115856	132.072	121356910	
2	ARS-BFGL-NGS-108220	132.3449	121387324	
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2	ARS-BFGL-NGS-84506	132.66	121476153	
2	UA-IFASA-7185	132.66	121503634	
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2	ARS-BFGL-NGS-4641	133.1288	121731564	
2	ARS-BFGL-NGS-7800	133.1743	121753051	
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2	Hapmap29048-BTA-157271	133.3729	121847018	
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2	ARS-BFGL-NGS-100296	135.1083	123330136	
2	Hapmap40752-BTA-49567	135.1187	123362669	
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2	ARS-BFGL-NGS-34396	135.2082	123645089	
2	ARS-BFGL-NGS-69013	135.2311	123717269	
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2	ARS-BFGL-NGS-62504	135.7435	124265089	
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2	ARS-BFGL-NGS-19266	136.3037	124651277	
2	Hapmap30019-BTA-150024	136.3501	124683244	
2	ARS-BFGL-NGS-28354	136.4281	124737053	
2	ARS-BFGL-NGS-118090	136.55	124821120	
2	ARS-BFGL-NGS-64086	136.6098	124862319	
2	ARS-BFGL-NGS-39882	136.6652	124900467	
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2	ARS-BFGL-NGS-73988	137.0635	125175094	
2	ARS-BFGL-NGS-15108	137.1694	125248041	
2	ARS-BFGL-NGS-113668	137.3597	125379224	
2	BTA-49626-no-rs	137.3963	125404487	
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2	ARS-BFGL-BAC-27911	137.5316	125497767	
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2	Hapmap53350-ss46526471	137.62	125653839	
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2	Hapmap54611-rs29020940	137.62	125716884	
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2	ARS-BFGL-NGS-35163	137.62	125798507	
2	BTA-49621-no-rs	137.62	125826843	
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2	Hapmap38132-BTA-09265	137.62	125962886	
2	ARS-BFGL-NGS-118068	137.62	126058677	
2	ARS-BFGL-NGS-112535	137.62	126089026	

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2	Hapmap42232-BTA-49615	137.6887	126158876
2	BTA-49607-no-rs	137.7454	126192595
2	ARS-BFGL-NGS-119884	137.8764	126270358
2	ARS-BFGL-NGS-15428	137.9955	126341038
2	ARS-BFGL-NGS-60545	138.0476	126372006
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2	UA-IFASA-8340	138.5734	126684192
2	ARS-BFGL-NGS-998	138.7093	126764887
2	ARS-BFGL-NGS-20267	138.7841	126809260
2	Hapmap24430-BTA-134672	138.8246	126833356
2	ARS-BFGL-NGS-24930	138.8707	126860673
2	ARS-BFGL-NGS-118505	139.0337	126957475
2	ARS-BFGL-NGS-38248	139.1854	127047563
2	ARS-BFGL-BAC-32411	139.3061	127119233
2	ARS-BFGL-NGS-36936	139.3645	127153889
2	ARS-BFGL-NGS-119799	139.4296	127192536
2	ARS-BFGL-NGS-115982	139.6265	127309459
2	ARS-BFGL-NGS-104716	139.7384	127375881
2	ARS-BFGL-NGS-108804	139.7997	127412313
2	ARS-BFGL-BAC-32424	139.9029	127473570
2	Hapmap24482-BTA-134676	139.9958	127528727
2	ARS-BFGL-NGS-75279	140.0374	127553417
2	ARS-BFGL-NGS-34317	140.1406	127614663
2	ARS-BFGL-NGS-21994	140.2029	127651690
2	ARS-BFGL-NGS-26260	140.3832	127758721
2	ARS-BFGL-NGS-6176	140.4239	127782861
2	ARS-BFGL-BAC-32707	140.4767	127814244
2	ARS-BFGL-NGS-68798	140.48	127834529
2	Hapmap34844-VSWAP1E67289A_scf	140.48	127860492
2	ARS-BFGL-NGS-114532	140.48	127922394
2	ARS-BFGL-NGS-58272	140.5246	128013805
2	ARS-BFGL-NGS-80059	140.5939	128081087
2	ARS-BFGL-NGS-3963	140.6438	128129461
2	ARS-BFGL-NGS-98458	140.6646	128149644
2	Hapmap41279-BTA-49700	140.7335	128216477
2	ARS-BFGL-NGS-55920	140.7694	128251331
2	BTA-49705-no-rs	140.8468	128326425
2	ARS-BFGL-NGS-104560	140.8838	128362357
2	ARS-BFGL-NGS-92765	140.9831	128458666
2	ARS-BFGL-NGS-45691	141.01	128484790
2	ARS-BFGL-NGS-118924	141.0556	128529102
2	ARS-BFGL-NGS-116294	141.1088	128580697
2	ARS-BFGL-NGS-41994	141.1311	128602295
2	ARS-BFGL-NGS-10586	141.1659	128636098
2	ARS-BFGL-NGS-104227	141.201	128670186
2	ARS-BFGL-NGS-17529	141.2267	128695085
2	Hapmap60596-rs29017365	141.3478	128812635
2	BTA-31262-no-rs	141.4272	128889674
2	ARS-BFGL-NGS-111873	141.4518	128913476
2	ARS-BFGL-NGS-62579	141.4872	128947842
2	ARS-BFGL-NGS-8433	141.5136	128973530
2	ARS-BFGL-NGS-91346	141.5663	129024635
2	ARS-BFGL-NGS-77983	141.5964	129053865
2	ARS-BFGL-NGS-112511	141.7064	129160558
2	Hapmap60694-rs29012608	141.7578	129210481
2	ARS-BFGL-NGS-106554	141.84	129290171
2	ARS-BFGL-NGS-3925	141.8654	129314836
2	ARS-BFGL-NGS-63980	141.941	129388250

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2	BTA-49748-no-rs	142.0719	129515246
2	ARS-BFGL-NGS-40911	142.1126	129554709
2	ARS-BFGL-NGS-118648	142.1686	129609082
2	ARS-BFGL-NGS-111807	142.212	129651238
2	ARS-BFGL-NGS-88498	142.2392	129677633
2	ARS-BFGL-NGS-116941	142.3035	129738866
2	ARS-BFGL-NGS-118140	142.3357	129768904
2	ARS-BFGL-NGS-116403	142.4174	129845311
2	Hapmap50985-BTA-49760	142.4572	129882579
2	ARS-BFGL-NGS-36151	142.5054	129927678
2	ARS-BFGL-NGS-2341	142.5271	129947923
2	ARS-BFGL-NGS-102007	142.616	130031069
2	Hapmap39569-BTA-49765	142.6396	130053163
2	ARS-BFGL-NGS-90021	142.6647	130076674
2	BTA-49769-no-rs	142.7342	130141723
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2	ARS-BFGL-NGS-119522	142.8171	130219244
2	ARS-BFGL-NGS-22750	142.9341	130328684
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2	ARS-BFGL-NGS-106346	143.0664	130452409
2	ARS-BFGL-NGS-56131	143.1295	130511453
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2	ARS-BFGL-NGS-39631	143.2804	130652581
2	Hapmap49195-BTA-49787	143.3055	130676014
2	ARS-BFGL-NGS-118362	143.3896	130754721
2	ARS-BFGL-NGS-104608	143.4236	130786495
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2	ARS-BFGL-NGS-65958	143.5253	130881681
2	ARS-BFGL-NGS-108175	143.5556	130910035
2	Hapmap57178-rs29026739	143.5867	130939064
2	ARS-BFGL-NGS-43912	143.6153	130965838
2	ARS-BFGL-NGS-116330	143.6694	131016477
2	ARS-BFGL-NGS-54356	143.6964	131041728
2	ARS-BFGL-NGS-14778	143.7474	131089397
2	ARS-BFGL-NGS-27535	143.7968	131135560
2	ARS-BFGL-NGS-60058	143.8617	131196339
2	Hapmap38604-BTA-49811	143.911	131242404
2	ARS-BFGL-NGS-2286	143.9394	131269032
2	ARS-BFGL-NGS-44323	143.9785	131305612
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2	UA-IFASA-1690	144.0235	131347628
2	BTB-02096577	144.0504	131372857
2	BTB-00117780	144.0728	131393741
2	ARS-BFGL-NGS-110186	144.1447	131461020
2	ARS-BFGL-NGS-37699	144.191	131504361
2	ARS-BFGL-NGS-30621	144.2289	131539751
2	BTA-114983-no-rs	144.2818	131589276
2	ARS-BFGL-NGS-31856	144.3956	131695670
2	ARS-BFGL-NGS-18713	144.4365	131734005
2	BTB-01230903	144.4585	131754525
2	Hapmap47186-BTA-114970	144.5128	131805299
2	Hapmap46765-BTA-114976	144.557	131846715
2	BTB-01978832	144.5956	131882804
2	ARS-BFGL-NGS-26965	144.6213	131906865
2	ARS-BFGL-NGS-22611	144.6581	131941223
2	ARS-BFGL-NGS-105785	144.6874	131968682
2	ARS-BFGL-NGS-77887	144.7147	131994228
2	ARS-BFGL-NGS-83481	144.7519	132028943

2	Hapmap51459-BTA-49829	144.9028	132170155
2	ARS-BFGL-NGS-110419	145.1774	132426982
2	BTB-00118121	145.2307	132476872
2	ARS-BFGL-NGS-118497	145.3201	132560449
2	ARS-BFGL-NGS-60038	145.3653	132602751
2	ARS-BFGL-NGS-108583	145.4352	132668144
2	ARS-BFGL-NGS-10357	145.538	132764293
2	ARS-BFGL-NGS-100214	145.5994	132821698
2	BTB-00687950	145.6281	132848570
2	ARS-BFGL-NGS-39303	145.7059	132921343
2	ARS-BFGL-NGS-67648	145.7412	132965033
2	ARS-BFGL-NGS-10870	145.7838	133019470
2	BTB-01734946	145.8029	133043817
2	ARS-BFGL-NGS-116376	145.8276	133075404
2	ARS-BFGL-NGS-110442	145.8567	133112506
2	ARS-BFGL-NGS-89509	145.9336	133210731
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2	BTB-01662262	146.1036	133427914
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2	ARS-BFGL-NGS-40768	146.3359	133699531
2	BTB-00107514	146.3981	133765521
2	ARS-BFGL-NGS-115355	146.4464	133816808
2	ARS-BFGL-NGS-66393	146.4886	133861562
2	ARS-BFGL-NGS-109758	146.5146	133889239
2	ARS-BFGL-NGS-110038	146.5383	133914351
2	ARS-BFGL-NGS-40019	146.5638	133941380
2	ARS-BFGL-NGS-66860	146.6686	133979803
2	ARS-BFGL-NGS-22691	146.887	134054689
2	UA-IFASA-7955	147.0291	134123825
2	ARS-BFGL-NGS-93576	147.1085	134162476
2	ARS-BFGL-NGS-35304	147.2063	134210058
2	ARS-BFGL-NGS-45803	147.2818	134246808
2	Hapmap53367-rs29014082	147.3521	134281005
2	ARS-BFGL-NGS-1284	147.4131	134310690
2	ARS-BFGL-NGS-95583	147.4594	134333230
2	ARS-BFGL-NGS-86145	147.5052	134355559
2	ARS-BFGL-NGS-60573	147.5739	134388958
2	ARS-BFGL-NGS-73961	147.6424	134422281
2	ARS-BFGL-NGS-112835	147.687	134444007
2	BTA-48701-no-rs	147.7303	134465054
2	ARS-BFGL-NGS-113378	147.7746	134486603
2	ARS-BFGL-NGS-33064	147.9119	134553463
2	Hapmap48784-BTA-48699	147.9879	134590430
2	ARS-BFGL-NGS-10134	148.0739	134632287
2	ARS-BFGL-NGS-36536	148.219	134702903
2	ARS-BFGL-NGS-27023	148.2911	134738023
2	ARS-BFGL-NGS-5980	148.3352	134759459
2	ARS-BFGL-NGS-63440	148.4037	134792816
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2	ARS-BFGL-NGS-17681	148.6486	134964271
2	ARS-BFGL-NGS-55916	148.6601	134985418
2	BTA-52274-no-rs	148.6743	135011539
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2	ARS-BFGL-NGS-93197	148.7054	135068750
2	ARS-BFGL-NGS-115989	148.7202	135096060
2	ARS-BFGL-NGS-42074	148.7347	135122819
2	ARS-BFGL-NGS-24053	148.7431	135138292
2	BTA-48655-no-rs	148.7589	135167307
2	ARS-BFGL-NGS-67260	148.7716	135190642
2	ARS-BFGL-NGS-17276	148.8138	135268418
2	ARS-BFGL-NGS-1066	148.8452	135326169
2	ARS-BFGL-NGS-102755	148.8568	135347580
2	ARS-BFGL-NGS-111732	148.871	135373581
2	BTB-01349174	148.8735	135378292
2	BTA-26833-no-rs	148.9035	135433480
2	BTB-01349081	148.9215	135466648
2	ARS-BFGL-NGS-97851	148.9351	135491609
2	ARS-BFGL-NGS-114321	149.0022	135615229
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2	ARS-BFGL-NGS-68682	149.0332	135672325
2	ARS-BFGL-NGS-22059	149.0469	135697526
2	ARS-BFGL-NGS-36460	149.0608	135723087
2	ARS-BFGL-NGS-5444	149.0762	135751326
2	BTB-01367355	149.0913	135779233
2	ARS-BFGL-NGS-105413	149.1459	135879731
2	ARS-BFGL-NGS-65879	149.1588	135903459
2	ARS-BFGL-NGS-2645	149.1713	135926465
2	ARS-BFGL-NGS-110452	149.1823	135946704
2	ARS-BFGL-NGS-63882	149.2082	135994305
2	Hapmap49560-BTA-29329	149.2357	136044919
2	ARS-BFGL-NGS-23973	149.2468	136065477
2	ARS-BFGL-NGS-37352	149.2665	136101696
2	ARS-BFGL-NGS-108902	149.2812	136128658
2	ARS-BFGL-NGS-116288	149.301	136165185
2	ARS-BFGL-NGS-102467	149.3134	136188090
2	Hapmap52845-rs29027154	149.3331	136224289
2	ARS-BFGL-NGS-14555	149.3461	136248228
2	ARS-BFGL-NGS-118957	149.3775	136305920
2	BTB-00116992	149.4214	136386853
2	BTA-49790-no-rs	149.4381	136417593
2	ARS-BFGL-NGS-18350	149.4489	136437458
2	BTB-00117283	149.4618	136461239
2	ARS-BFGL-NGS-116761	149.474	136483623
2	BTB-00118945	149.5625	136674553
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3	ARS-BFGL-NGS-2129	1.178059	306322
3	ARS-BFGL-NGS-114220	1.212244	327992
3	Hapmap52622-rs29010435	1.539929	535711
3	ARS-BFGL-NGS-64689	1.590144	567542
3	Hapmap51852-BTA-69630	1.686424	628574
3	Hapmap41062-BTA-68921	1.81385	709349
3	ARS-BFGL-NGS-67047	1.936934	787371
3	Hapmap42634-BTA-68567	2.088707	883580
3	ARS-BFGL-NGS-112252	2.166572	932938
3	BTA-68271-no-rs	2.225647	970386
3	ARS-BFGL-NGS-15882	2.259392	991777
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3	Hapmap36815-SCAFFOLD195739_3723	3.703834	1548130		
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3	ARS-BFGL-NGS-81937	4.071691	1686320		
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3	ARS-BFGL-NGS-22647	4.318886	1779182		
3	ARS-BFGL-NGS-15921	4.489707	1843353		
3	Hapmap42630-BTA-67480	4.683955	1916325		
3	ARS-BFGL-NGS-654	4.740657	1937626		
3	Hapmap42631-BTA-67529	4.85131	1979194		
3	ARS-BFGL-NGS-18912	5.117426	2079164		
3	ARS-BFGL-NGS-103585	5.195611	2108535		
3	ARS-BFGL-NGS-104816	5.287304	2142981		
3	BTA-122370-no-rs	5.408597	2188546		
3	Hapmap38375-BTA-108207	5.491221	2219585		
3	Hapmap44439-BTA-108216	5.856763	2390095		
3	Hapmap42796-BTA-108223	5.903596	2449969		
3	ARS-BFGL-NGS-65445	5.950235	2509595		
3	ARS-BFGL-NGS-112097	6.037846	2621602		
3	ARS-BFGL-NGS-27126	6.516489	2736992		
3	INRA-516	6.672099	2758916		
3	ARS-BFGL-NGS-70807	6.865831	2786211		
3	ARS-BFGL-NGS-27655	8.508585	3017659		
3	ARS-BFGL-NGS-23958	8.739481	3050190		
3	ARS-BFGL-NGS-4246	9.128719	3105030		
3	ARS-USMARC-Parent-DQ422950-rs29012306	9.300037	3129167		
3	Hapmap32813-BTA-140901	10.02908	3231882		
3	ARS-BFGL-NGS-56798	10.33588	3296452		
3	ARS-BFGL-NGS-55588	10.36116	3320855		
3	INRA-483	10.44047	3397426		
3	ARS-BFGL-NGS-37900	10.4683	3424295		
3	ARS-BFGL-NGS-100433	10.51764	3471942		
3	ARS-BFGL-NGS-114557	10.61948	3498914		
3	ARS-BFGL-NGS-71702	10.77421	3537330		
3	Hapmap49267-BTA-67976	10.92048	3573643		
3	BTA-121571-no-rs	11.16596	3634590		
3	ARS-BFGL-NGS-35211	11.52561	3723881		
3	ARS-BFGL-NGS-36590	11.60548	3743710		
3	BTA-115986-no-rs	11.69521	3765987		
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3	INRA-603	12.95633	4099239		
3	BTB-01769418	13.17154	4180412		
3	BTB-01214581	13.28715	4224017		
3	Hapmap44676-BTA-111644	13.35834	4250870		
3	ARS-BFGL-NGS-17527	13.43486	4279731		
3	BTB-01214467	13.58342	4335766		
3	Hapmap46931-BTA-111633	13.64815	4360180		
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3	ARS-BFGL-NGS-112520	13.78276	4410951		
3	Hapmap1583-BTA-111660	13.87968	4447509		
3	ARS-BFGL-NGS-37237	13.95491	4475884		
3	BTB-01539152	14.07898	4522681		



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3	Hapmap49464-BTA-115633	14.46643	4668818	
3	Hapmap39882-BTA-106655	14.65809	4741110	
3	Hapmap49006-BTA-106656	14.76459	4781277	
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3	ARS-BFGL-NGS-81031	14.97797	4861761	
3	ARS-BFGL-NGS-113026	15.14298	4924001	
3	INRA-661	15.26183	4968828	
3	ARS-BFGL-NGS-118372	15.49313	5056069	
3	BTA-29639-no-rs	15.75873	5156247	
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3	BTB-01234759	15.94769	5227519	
3	ARS-BFGL-NGS-119492	16.04086	5262660	
3	BTB-01234863	16.15598	5306081	
3	BTB-02093457	16.2665	5347767	
3	BTB-01745829	16.34838	5378650	
3	ARS-BFGL-NGS-13674	16.46177	5421419	
3	Hapmap49710-BTA-68634	16.58272	5467039	
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3	BTA-14976-no-rs	16.80866	5552259	
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3	BTA-25432-no-rs	17.47769	5804604	
3	BTA-21472-no-rs	17.69387	5886143	
3	BTB-01862604	17.75691	5909921	
3	BTA-68843-no-rs	17.83756	5940341	
3	BTA-68856-no-rs	18.05655	6022937	
3	BTB-01333281	18.41152	6156825	
3	ARS-BFGL-NGS-26988	18.48323	6183874	
3	INRA-222	18.96577	6365877	
3	BTB-01678000	19.03287	6397409	
3	BTB-01678060	19.06128	6421871	
3	BTB-00296101	19.08624	6443358	
3	BTB-00296182	19.12917	6480313	
3	Hapmap31813-BTA-155869	19.16441	6510652	
3	BTA-110709-no-rs	19.20562	6546124	
3	ARS-BFGL-NGS-116469	19.28537	6614779	
3	BTA-68965-no-rs	19.34386	6665135	
3	Hapmap42294-BTA-69421	19.40328	6716282	
3	ARS-BFGL-NGS-7279	19.43686	6745189	
3	ARS-BFGL-NGS-113472	19.46095	6765932	
3	ARS-BFGL-NGS-39676	19.516	6813316	
3	Hapmap54926-ss46526189	19.62624	6900453	
3	Hapmap48052-BTA-69153	19.8191	6974248	
3	Hapmap50758-BTA-69128	19.88967	7001251	
3	BTA-69126-no-rs	20.02434	7052779	
3	ARS-BFGL-NGS-112786	20.27214	7147596	
3	ARS-BFGL-NGS-104594	20.49617	7233318	
3	ARS-BFGL-NGS-66206	20.55402	7255453	
3	ARS-BFGL-NGS-101921	20.85661	7371235	
3	BTA-88009-no-rs	20.90969	7391544	
3	ARS-BFGL-NGS-25819	20.97592	7416886	
3	Hapmap32868-BTA-161473	21.05305	7446399	
3	ARS-BFGL-NGS-21885	21.1627	7488354	
3	ARS-BFGL-NGS-60242	21.20841	7505847	
3	Hapmap34025-BES5_Contig212_565		21.31072	7544991
3	BTA-66930-no-rs	21.82909	7743337	

3	ARS-BFGL-NGS-5956	22.15176	7866803
3	ARS-BFGL-NGS-112616	22.25446	7906099
3	INRA-345	22.31324	7928589
3	Hapmap48430-BTA-66944	22.45583	7983149
3	INRA-636	22.55563	8021336
3	ARS-BFGL-NGS-13090	22.89846	8152513
3	INRA-442	23.11075	8250205
3	ARS-BFGL-NGS-5249	23.24243	8346751
3	Hapmap58601-rs29027882	23.28559	8391057
3	Hapmap58486-rs29016221	23.39149	8499747
3	ARS-BFGL-NGS-86173	23.7219	8602704
3	ARS-BFGL-NGS-30351	24.4409	8716142
3	INRA-414	25.19212	8855217
3	ARS-BFGL-NGS-33910	25.46997	8945826
3	ARS-BFGL-NGS-97347	26.68968	9347514
3	ARS-BFGL-NGS-113990	26.84489	9461404
3	INRA-304	27.0056	9579325
3	ARS-BFGL-NGS-18442	27.04844	9610758
3	ARS-BFGL-NGS-105595	27.11334	9658384
3	ARS-BFGL-NGS-1014	27.15112	9686101
3	ARS-BFGL-NGS-94819	27.20059	9722400
3	ARS-BFGL-NGS-113388	27.23968	9751086
3	ARS-BFGL-NGS-8587	27.29038	9788285
3	ARS-BFGL-NGS-118428	27.32043	9810337
3	ARS-BFGL-NGS-61631	27.43697	9895847
3	ARS-BFGL-NGS-2694	27.55191	9980184
3	ARS-BFGL-NGS-27948	27.57947	10000411
3	ARS-BFGL-NGS-112230	27.60749	10020971
3	ARS-BFGL-NGS-40088	27.6612	10060380
3	ARS-BFGL-NGS-6957	27.77535	10144138
3	ARS-BFGL-NGS-103878	27.84779	10197292
3	BTA-69900-no-rs	27.90785	10241362
3	ARS-BFGL-NGS-116710	27.98186	10295669
3	Hapmap38381-BTA-117032	28.06083	10353611
3	ARS-BFGL-NGS-70744	28.15455	10422377
3	ARS-BFGL-NGS-740	28.28513	10518195
3	ARS-BFGL-NGS-118684	28.3	10574946
3	ARS-BFGL-NGS-25382	28.3	10619258
3	Hapmap40339-BTA-117016	28.3	10640386
3	ARS-BFGL-NGS-23174	28.32651	10660524
3	ARS-BFGL-NGS-73929	28.40885	10713470
3	ARS-BFGL-NGS-87298	28.46029	10746542
3	Hapmap39956-BTA-94317	28.78757	10956984
3	ARS-BFGL-NGS-23250	28.91693	11040167
3	ARS-BFGL-NGS-101769	29.01804	11105182
3	Hapmap49050-BTA-119760	29.05582	11129475
3	ARS-BFGL-NGS-33062	29.21359	11230921
3	BTA-119329-no-rs	29.50516	11418405
3	Hapmap47900-BTA-26234	29.78855	11539490
3	BTA-26230-no-rs	29.87257	11563040
3	Hapmap45266-BTA-26244	30.18487	11674665
3	ARS-BFGL-NGS-104320	30.20264	11696849
3	ARS-BFGL-NGS-109482	30.23755	11740431
3	ARS-BFGL-NGS-25865	30.395	11937022
3	Hapmap56299-rs29010540	30.67669	12288724
3	ARS-BFGL-NGS-36635	30.69562	12312362
3	Hapmap54084-rs29012865	30.71763	12339849
3	ARS-BFGL-NGS-37422	30.79578	12437424
3	ARS-BFGL-NGS-1819	30.82667	12475989

3	ARS-BFGL-NGS-38423	30.92	12709854
3	Hapmap60323-rs29014816	30.92	12733716
3	Hapmap59741-rs29016987	30.92	12824913
3	ARS-BFGL-NGS-20009	30.92	12917444
3	ARS-BFGL-NGS-6932	31.06166	13046630
3	ARS-BFGL-NGS-103120	31.13442	13080516
3	ARS-BFGL-NGS-16268	31.19587	13109132
3	ARS-BFGL-NGS-100336	31.28041	13148505
3	ARS-BFGL-NGS-26099	31.42804	13217260
3	ARS-BFGL-NGS-106179	31.52272	13261355
3	ARS-BFGL-NGS-104490	31.80037	13390664
3	ARS-BFGL-NGS-3374	31.98144	13474988
3	ARS-BFGL-NGS-106490	32.32629	13635591
3	ARS-BFGL-NGS-108231	32.37346	13657562
3	ARS-BFGL-NGS-119921	32.42142	13704030
3	Hapmap53387-rs29010859	32.42574	13779538
3	BTA-12976-rs29024920	32.42935	13842528
3	ARS-BFGL-NGS-1316	32.53513	13974787
3	UA-IFASA-8925	32.73377	14084731
3	ARS-BFGL-NGS-75039	32.7728	14106331
3	Hapmap53344-ss46526153	32.83354	14139949
3	ARS-BFGL-NGS-73625	32.97591	14218748
3	Hapmap43906-BTA-66658	33.07417	14273135
3	ARS-BFGL-NGS-26797	33.16167	14321565
3	ARS-BFGL-NGS-16812	33.63418	14589894
3	ARS-BFGL-NGS-99010	33.70057	14627679
3	ARS-BFGL-NGS-84180	33.78259	14674365
3	Hapmap54039-ss46526101	33.8205	14695941
3	ARS-BFGL-NGS-110659	33.87513	14727035
3	INRA-232	33.93987	14763882
3	ARS-BFGL-NGS-10423	33.9878	14791163
3	Hapmap44611-BTA-66646	34.0228	14811080
3	Hapmap60445-rs29011589	34.15262	14884969
3	ARS-BFGL-NGS-107249	34.21246	14919029
3	BTA-66651-no-rs	34.24607	14938161
3	ARS-BFGL-NGS-102327	34.34077	14992057
3	ARS-BFGL-NGS-106009	34.6095	15145012
3	ARS-BFGL-NGS-13586	35.02328	15380518
3	ARS-BFGL-NGS-91310	35.06617	15404930
3	ARS-BFGL-NGS-13057	35.10284	15425797
3	ARS-BFGL-NGS-113318	35.17371	15466136
3	Hapmap42643-BTA-69885	35.23063	15498530
3	ARS-BFGL-NGS-64215	35.27819	15525599
3	ARS-BFGL-NGS-79362	35.40908	15600100
3	ARS-BFGL-NGS-95132	35.62812	15724767
3	ARS-BFGL-NGS-42677	35.74612	15791927
3	ARS-BFGL-NGS-54121	35.77575	15818013
3	ARS-BFGL-NGS-18525	35.86893	15904420
3	ARS-BFGL-NGS-91059	35.9183	15950208
3	Hapmap40793-BTA-69866	35.95503	15984265
3	Hapmap26961-BTA-141000	35.97754	16005138
3	Hapmap39423-BTA-69854	36.05038	16072682
3	ARS-BFGL-NGS-37429	36.07705	16097418
3	ARS-BFGL-NGS-37224	36.13605	16152133
3	ARS-BFGL-NGS-10941	36.1661	16179998
3	ARS-BFGL-NGS-107582	36.25986	16243393
3	ARS-BFGL-NGS-6776	36.32144	16279733
3	BTA-69738-no-rs	36.39477	16323013
3	ARS-BFGL-NGS-1859	36.48556	16376596

3	ARS-BFGL-NGS-100248	36.52543	16400127	
3	BTA-69696-no-rs	36.6007	16444546	
3	ARS-BFGL-NGS-41579	36.77943	16533823	
3	ARS-BFGL-NGS-20167	36.83843	16557950	
3	BTA-69575-no-rs	37.25263	16727329	
3	Hapmap44275-BTA-69573	37.27003	16734445	
3	ARS-BFGL-NGS-1718	37.36374	16772763	
3	Hapmap56996-rs29010816	37.52096	16881296	
3	Hapmap58478-rs29015763	37.67262	17160057	
3	BTA-67160-no-rs	37.69213	17195924	
3	Hapmap41052-BTA-67164	37.71719	17241980	
3	BTA-67276-no-rs	37.73806	17280333	
3	BTA-103528-no-rs	37.75919	17319185	
3	BTA-121572-no-rs	37.95628	17681439	
3	Hapmap34129-BES11_Contig277_1586	38.26121	18062515	
3	ARS-BFGL-NGS-32868	38.46202	18221204	
3	ARS-BFGL-NGS-97793	38.56144	18299769	
3	ARS-BFGL-NGS-92168	38.5882	18320912	
3	ARS-BFGL-NGS-82767	38.65596	18374455	
3	ARS-BFGL-NGS-11615	38.84063	18520392	
3	ARS-BFGL-NGS-42701	38.87751	18549536	
3	BTA-66810-no-rs	38.91039	18575518	
3	ARS-BFGL-NGS-102388	38.95084	18607477	
3	ARS-BFGL-NGS-17105	39.0037	18649247	
3	Hapmap39500-BTA-66798	39.07712	18707269	
3	ARS-BFGL-NGS-32244	39.15622	18769778	
3	Hapmap54330-rs29010082	39.2187	18819153	
3	INRA-404	39.50857	19048207	
3	ARS-BFGL-NGS-109685	39.56537	19093097	
3	BTA-66824-no-rs	39.69237	19193451	
3	INRA-453	39.76172	19248260	
3	ARS-BFGL-NGS-34169	39.83887	19309220	
3	ARS-BFGL-NGS-13158	39.8743	19337220	
3	ARS-BFGL-NGS-115915	39.92623	19378254	
3	INRA-371	39.9638	19407948	
3	ARS-BFGL-NGS-59223	40.00412	19439806	
3	Hapmap50435-BTA-66860	40.12689	19536825	
3	ARS-BFGL-NGS-107446	40.29147	19666876	
3	Hapmap41612-BTA-66863	40.32462	19693073	
3	ARS-BFGL-NGS-61739	40.48365	19818747	
3	UA-IFASA-7892	40.70685	19995119	
3	Hapmap35248-BES5_Contig554_1101	40.75243	20031136	
3	ARS-BFGL-NGS-100210	40.97749	20208987	
3	INRA-269	41.22055	20401061	
3	Hapmap38688-BTA-66886	41.32068	20480189	
3	ARS-BFGL-NGS-36889	41.34811	20501858	
3	INRA-683	41.44139	20575574	
3	ARS-BFGL-NGS-76744	41.53848	20652293	
3	Hapmap55417-ss46527060	41.69192	20773550	
3	ARS-BFGL-NGS-108054	41.79018	20851197	
3	ARS-BFGL-NGS-97101	42.14114	21128533	
3	ARS-USMARC-Parent-DQ647187-rs29010510	42.16435	21146877	
3	ARS-BFGL-NGS-100163	42.18142	21160365	
3	ARS-BFGL-NGS-62323	42.44915	21371931	
3	ARS-BFGL-NGS-82576	42.51697	21425525	
3	Hapmap49491-BTA-121574	42.53788	21442043	
3	Hapmap59143-ss46526687	42.59754	21489190	
3	INRA-274	42.67427	21549827	
3	ARS-BFGL-NGS-18382	42.72234	21587811	

3	ARS-BFGL-NGS-114746	42.7887	21640254	
3	ARS-BFGL-NGS-74921	42.84312	21683257	
3	ARS-BFGL-NGS-24326	42.8872	21718092	
3	INRA-584	42.96123	21776587	
3	Hapmap41329-BTA-66828	42.98845	21798101	
3	ARS-BFGL-NGS-99338	43.07942	21869985	
3	ARS-BFGL-NGS-34492	43.38023	21925238	
3	ARS-BFGL-NGS-6675	43.39685	21984640	
3	Hapmap34896-BES2_Contig311_734	43.42052		22069239
3	ARS-BFGL-NGS-117867	43.43341	22115328	
3	INRA-565	43.44276	22148716	
3	ARS-BFGL-NGS-104522	43.45024	22175476	
3	ARS-BFGL-NGS-102139	43.46697	22235265	
3	Hapmap60947-rs29019824	43.49246	22326368	
3	INRA-257	43.53743	22487111	
3	Hapmap48042-BTA-66967	43.54926	22508008	
3	ARS-BFGL-NGS-79371	43.58318	22550916	
3	Hapmap59299-rs29022370	43.64097	22624014	
3	Hapmap33860-BES7_Contig442_1439	43.65686		22644111
3	ARS-BFGL-NGS-41773	43.68077	22674353	
3	ARS-BFGL-NGS-105811	43.70609	22706379	
3	ARS-BFGL-NGS-34836	43.88231	22921514	
3	ARS-BFGL-NGS-39443	43.91837	22944367	
3	Hapmap26676-BTA-141146	43.96784	22975725	
3	INRA-335	44.33165	23206319	
3	BTA-66912-no-rs	44.43454	23271534	
3	INRA-528	44.6523	23409559	
3	ARS-BFGL-NGS-24002	44.76271	23479543	
3	BTA-86312-no-rs	44.82814	23521013	
3	Hapmap58023-ss46526193	45.06695	23672381	
3	ARS-BFGL-NGS-14193	45.12746	23710738	
3	BTA-66968-no-rs	45.17046	23737990	
3	Hapmap48431-BTA-66970	45.21203	23764339	
3	ARS-BFGL-NGS-28573	45.71314	24081964	
3	INRA-289	45.82046	24149985	
3	INRA-630	45.92236	24214576	
3	ARS-BFGL-NGS-118132	46.03885	24288407	
3	INRA-474	46.11399	24336036	
3	Hapmap26465-BTA-160174	46.24919	24421734	
3	Hapmap34737-BES11_Contig221_1196	46.54607		24680337
3	Hapmap53735-rs29018102	46.60111	24745976	
3	Hapmap48174-BTA-108346	46.64613	24799665	
3	BTA-108345-no-rs	46.66777	24825465	
3	ARS-BFGL-NGS-114548	47.2292	25037858	
3	Hapmap54955-rs29010328	47.53953	25123760	
3	Hapmap38962-BTA-49018	47.70671	25170036	
3	Hapmap41492-BTA-26349	47.84615	25252714	
3	Hapmap42160-BTA-26336	47.98986	25338659	
3	Hapmap46744-BTA-03982	48.03902	25368056	
3	ARS-BFGL-NGS-105385	48.09309	25400391	
3	ARS-BFGL-NGS-111769	48.31184	25533765	
3	ARS-BFGL-NGS-23372	48.33002	25569904	
3	ARS-BFGL-NGS-76525	48.34823	25606097	
3	ARS-BFGL-NGS-118942	48.37246	25654265	
3	ARS-BFGL-NGS-3883	48.42724	25763148	
3	Hapmap48043-BTA-67009	48.44444	25797339	
3	ARS-BFGL-NGS-45686	48.56241	26031815	
3	ARS-BFGL-NGS-104248	48.57906	26064913	
3	BTA-85212-no-rs	48.63683	26179728	

3	ARS-BFGL-NGS-112496	48.65353	26212929
3	INRA-287	48.6693	26244281
3	UA-IFASA-9337	48.68651	26278487
3	UA-IFASA-699	48.71325	26331640
3	Hapmap47694-BTA-67030	48.72691	26358796
3	ARS-BFGL-NGS-81179	48.75636	26417331
3	ARS-BFGL-NGS-115816	48.77594	26438136
3	ARS-BFGL-NGS-19938	48.81548	26471814
3	ARS-BFGL-NGS-40236	48.84431	26496378
3	ARS-BFGL-NGS-97373	48.89891	26542891
3	Hapmap53614-rs29011537	48.95377	26589623
3	ARS-BFGL-NGS-5054	49.03372	26657734
3	ARS-BFGL-NGS-105342	49.1281	26738133
3	BTA-67015-no-rs	49.19757	26797308
3	ARS-BFGL-NGS-25246	49.26875	26857944
3	ARS-BFGL-NGS-111883	49.33543	26914757
3	Hapmap23648-BTA-159232	49.37586	26949196
3	ARS-BFGL-NGS-36823	49.40256	26971936
3	ARS-BFGL-NGS-18824	49.45248	27014460
3	ARS-BFGL-NGS-42733	49.52838	27079121
3	ARS-BFGL-NGS-111370	49.57118	27115580
3	ARS-BFGL-NGS-105333	49.63566	27170513
3	ARS-BFGL-NGS-15627	49.68877	27215754
3	Hapmap31109-BTA-141167	49.74837	27266522
3	BTA-08435-rs29021993	49.85447	27356912
3	Hapmap49262-BTA-67094	49.90577	27400611
3	BTA-67090-no-rs	49.97765	27461842
3	Hapmap48432-BTA-67079	50.02427	27501557
3	Hapmap54189-rs29022505	50.08658	27554640
3	ARS-BFGL-NGS-111848	50.18949	27642301
3	ARS-BFGL-NGS-26956	50.25575	27698747
3	ARS-BFGL-NGS-22908	50.27986	27719287
3	ARS-BFGL-NGS-6812	50.34608	27775697
3	ARS-BFGL-NGS-32344	50.58471	27963904
3	Hapmap49888-BTA-122624	50.65257	28003019
3	ARS-BFGL-NGS-33324	50.75376	28061335
3	INRA-454	50.79889	28087347
3	ARS-BFGL-NGS-117241	50.89838	28144691
3	ARS-BFGL-NGS-83702	50.97404	28188297
3	ARS-BFGL-NGS-28865	51.25586	28350722
3	Hapmap26402-BTA-141183	51.4481	28461525
3	ARS-BFGL-NGS-112694	52.12774	28853229
3	Hapmap59965-rs29021049	52.34452	28978174
3	ARS-BFGL-NGS-25569	52.5907	29120058
3	ARS-BFGL-NGS-26693	52.65171	29155218
3	ARS-BFGL-NGS-118212	52.70804	29187683
3	ARS-BFGL-NGS-12730	52.74762	29210497
3	BTA-67336-no-rs	52.79536	29238010
3	Hapmap52267-rs29027608	52.91847	29308968
3	ARS-BFGL-NGS-108661	53.00414	29358344
3	ARS-BFGL-NGS-104159	53.18365	29461800
3	ARS-BFGL-NGS-70801	53.26079	29506260
3	INRA-658	53.47198	29627982
3	Hapmap51023-BTA-67162	53.55595	29676375
3	INRA-534	53.66547	29739497
3	INRA-440	53.86187	29852694
3	INRA-595	53.91013	29880508
3	Hapmap46529-BTA-67163	54.01114	29930084
3	ARS-BFGL-NGS-23116	54.12666	29972408

3	ARS-BFGL-NGS-87081	54.54128	30124307	
3	BTA-67261-no-rs	54.58219	30145106	
3	ARS-BFGL-NGS-37826	54.66041	30194236	
3	UA-IFASA-9717	54.85841	30318611	
3	Hapmap44422-BTA-90337	54.96564	30385970	
3	Hapmap51923-BTA-90300	55.11412	30479238	
3	BTA-90312-no-rs	55.15019	30501895	
3	BTA-90323-no-rs	55.25698	30568981	
3	BTA-67350-no-rs	55.29587	30593406	
3	ARS-BFGL-NGS-116953	55.38784	30651178	
3	BTA-67345-no-rs	55.52053	30728145	
3	ARS-BFGL-NGS-86370	55.56157	30756980	
3	ARS-BFGL-NGS-25438	55.60529	30787701	
3	Hapmap43650-BTA-67344	55.65755	30824422	
3	ARS-BFGL-NGS-113072	55.69893	30853504	
3	Hapmap33584-BTA-141202	55.79676	30922247	
3	BTB-00125265	55.85609	30963937	
3	INRA-641	55.89116	30988580	
3	BTA-100704-no-rs	55.92653	31013438	
3	BTB-01523770	55.95774	31035370	
3	ARS-BFGL-NGS-72368	55.99725	31063129	
3	ARS-BFGL-NGS-114461	56.04046	31093495	
3	ARS-BFGL-NGS-119919	56.09388	31131027	
3	ARS-BFGL-NGS-54540	56.14493	31166903	
3	BTA-67383-no-rs	56.28664	31266482	
3	ARS-BFGL-NGS-25216	56.33825	31302749	
3	BTA-67382-no-rs	56.37976	31331920	
3	ARS-BFGL-NGS-108958	56.44559	31378175	
3	ARS-BFGL-NGS-102586	56.52538	31434239	
3	INRA-701	56.57397	31468383	
3	ARS-BFGL-NGS-113746	56.61457	31496919	
3	ARS-BFGL-NGS-76281	56.65396	31524593	
3	Hapmap51026-BTA-67362	56.68432	31545930	
3	BTB-00125661	56.72768	31576395	
3	ARS-BFGL-NGS-105297	56.77151	31607201	
3	ARS-BFGL-NGS-66677	56.84505	31658875	
3	Hapmap33913-BES9_Contig264_1036	56.87584	31680503	
3	ARS-BFGL-NGS-42747	56.94523	31729269	
3	Hapmap57718-rs29018416	56.97548	31750523	
3	ARS-BFGL-NGS-40213	57.01107	31775531	
3	BTB-01420286	57.10828	31843839	
3	BTB-00125277	57.22665	31927022	
3	INRA-378	57.31838	31991477	
3	BTB-00125325	57.37542	32031556	
3	BTB-00125348	57.40693	32053703	
3	ARS-BFGL-NGS-111118	57.4405	32077291	
3	BTB-02075948	57.49096	32112753	
3	BTB-00125979	57.71021	32267174	
3	BTB-01890822	57.97557	32454174	
3	ARS-BFGL-NGS-5984	58.0108	32479004	
3	BTB-01899293	58.0796	32527488	
3	ARS-BFGL-NGS-42542	58.1937	32607892	
3	ARS-BFGL-NGS-85942	58.23103	32634203	
3	BTB-00126452	58.45009	32788575	
3	BTB-02037802	58.50829	32829586	
3	BTB-00126406	58.55169	32860177	
3	ARS-BFGL-NGS-14671	58.64037	32922670	
3	Hapmap40909-BTA-121580	58.67096	32944221	
3	ARS-BFGL-NGS-52849	58.70013	32964782	

3	ARS-BFGL-NGS-38953	58.73413	32988739	
3	ARS-BFGL-NGS-117560	58.7759	33018175	
3	ARS-BFGL-NGS-85575	58.85057	33070794	
3	Hapmap39503-BTA-67470	58.96907	33154308	
3	ARS-BFGL-NGS-113982	59.00869	33182228	
3	Hapmap50065-BTA-67274	59.07065	33249890	
3	Hapmap58559-rs29023519	59.07965	33276539	
3	ARS-BFGL-NGS-103874	59.09002	33307217	
3	ARS-BFGL-NGS-117870	59.09862	33332678	
3	ARS-BFGL-NGS-42736	59.11035	33367402	
3	ARS-BFGL-NGS-95773	59.12244	33403175	
3	ARS-BFGL-NGS-77834	59.13369	33436465	
3	INRA-194	59.14962	33483631	
3	Hapmap53351-ss46526783	59.16008	33514564	
3	BTB-00124726	59.17509	33559007	
3	ARS-BFGL-NGS-119309	59.24882	33691011	
3	ARS-BFGL-NGS-86767	59.3176	33741850	
3	ARS-BFGL-NGS-35338	59.48325	33864274	
3	ARS-BFGL-NGS-115128	59.52585	33895762	
3	ARS-BFGL-NGS-43118	59.56683	33926048	
3	Hapmap42629-BTA-67307	59.59727	33948546	
3	BTA-67308-no-rs	59.63359	33975389	
3	Hapmap51025-BTA-67309	59.66365	33997602	
3	Hapmap53424-rs29019267	59.84108	34184021	
3	ARS-BFGL-NGS-114699	59.86528	34228084	
3	ARS-BFGL-NGS-67960	59.88471	34263481	
3	Hapmap57750-ss46526998	59.89666	34285243	
3	Hapmap41054-BTA-67528	59.92936	34344799	
3	BTA-88149-no-rs	59.97166	34421834	
3	BTA-67533-no-rs	59.98144	34439644	
3	Hapmap41457-BTA-121582	60.01147	34494339	
3	BTA-67535-no-rs	60.04728	34559563	
3	BTA-67536-no-rs	60.05	34580217	
3	ARS-BFGL-NGS-118771	60.06927	34624789	
3	ARS-BFGL-NGS-36405	60.10334	34669774	
3	ARS-BFGL-NGS-83049	60.21534	34817679	
3	ARS-BFGL-NGS-24548	60.23827	34847957	
3	ARS-BFGL-NGS-19686	60.25459	34869507	
3	BTA-122551-no-rs	60.38831	35046094	
3	Hapmap49798-BTA-92389	60.43912	35113194	
3	ARS-BFGL-NGS-2680	60.4544	35133372	
3	INRA-217	60.51257	35210179	
3	ARS-BFGL-NGS-14022	60.54723	35255950	
3	BTA-01846-rs29012800	60.57108	35287458	
3	ARS-BFGL-NGS-101762	60.67511	35424831	
3	INRA-476	60.85284	35659533	
3	Hapmap52513-rs29024428	60.94789	35785053	
3	Hapmap34568-BES10_Contig649_1524	60.98409	35832852	
3	INRA-339	61.00647	35862406	
3	Hapmap43907-BTA-67629	61.10699	35995151	
3	ARS-BFGL-NGS-109648	61.13744	36035377	
3	Hapmap41614-BTA-67626	61.35981	36276652	
3	Hapmap41055-BTA-67615	61.52283	36359404	
3	ARS-BFGL-NGS-30334	61.65879	36393531	
3	ARS-BFGL-NGS-100508	61.84434	36440107	
3	ARS-BFGL-NGS-23295	62.00267	36520253	
3	ARS-BFGL-NGS-117495	62.01819	36531738	
3	Hapmap55463-rs29026005	62.41711	36826828	
3	BTA-67581-no-rs	62.4474	36849233	



3	ARS-BFGL-NGS-1553	62.65877	37005589		
3	INRA-110	62.71087	37059877		
3	BTA-67567-no-rs	62.71309	37101347		
3	ARS-BFGL-NGS-1886	62.71938	37219384		
3	ARS-BFGL-NGS-38910	62.72308	37288724		
3	Hapmap54069-rs29012123	62.72873	37394538		
3	Hapmap39975-BTA-121583	62.74666	37449443		
3	Hapmap44183-BTA-105889	62.82879	37602383		
3	BTA-105888-no-rs	62.84078	37624705		
3	Hapmap51175-BTA-17459	62.85494	37651069		
3	Hapmap25898-BTA-158488	62.89943	37733912		
3	Hapmap43483-BTA-117844	62.92331	37778393		
3	ARS-BFGL-NGS-56674	63.13854	38179166		
3	BTA-91560-no-rs	63.54054	38507659		
3	ARS-BFGL-NGS-2067	63.90924	38661143		
3	Hapmap50814-BTA-89905	64.15719	38764361		
3	BTA-122016-no-rs	64.26998	38811314		
3	Hapmap58660-rs29011628	64.35	39097420		
3	Hapmap60279-rs29011976	64.35	39118317		
3	BTA-93899-no-rs	64.35	39143931		
3	ARS-BFGL-NGS-15485	64.39713	39251194		
3	INRA-465	64.41734	39273428		
3	ARS-BFGL-NGS-103488	64.44131	39299783		
3	BTB-01737920	64.47477	39360570		
3	Hapmap60829-rs29020073	64.48679	39393293		
3	BTA-99693-no-rs	64.53428	39522643		
3	BTB-01155098	64.54208	39543882		
3	BTA-97380-no-rs	64.55341	39574744		
3	ARS-BFGL-NGS-24876	64.56242	39599273		
3	BTA-99686-no-rs	64.58274	39654642		
3	Hapmap58662-rs29014458	64.62775	39777226		
3	Hapmap51027-BTA-67630	64.65126	39841272		
3	Hapmap52326-rs29020672	64.70175	39978795		
3	BTA-86782-no-rs	64.72657	40046382		
3	BTA-93165-no-rs	64.78609	40208518		
3	BTB-01436387	64.80634	40263643		
3	BTB-01405574	64.83214	40333921		
3	BTB-01405537	64.84341	40364628		
3	ARS-USMARC-Parent-AY842472-rs29001941	64.85608	40399136		
3	BTB-01405471	64.85612	40399244		
3	Hapmap31786-BTA-148388	64.88171	40468958		
3	Hapmap43129-BTA-105623	64.90569	40534231		
3	ARS-BFGL-NGS-112442	64.92543	40588026		
3	BTB-01582389	64.93902	40625026		
3	BTB-01704990	64.94978	40654331		
3	INRA-332	64.95865	40678490		
3	Hapmap55075-rs29013986	64.98811	40758730		
3	Hapmap59377-rs29018679	65.12492	40903270		
3	BTA-20637-no-rs	65.19639	40977107		
3	BTA-00128-rs29013292	65.29536	41079360		
3	ARS-BFGL-NGS-110776	65.33427	41119556		
3	ARS-BFGL-NGS-84893	65.4032	41190756		
3	ARS-BFGL-NGS-113447	65.42344	41211668		
3	BTA-119268-no-rs	65.49813	41288830		
3	BTA-100337-no-rs	65.57822	41371572		
3	Hapmap48985-BTA-100340	65.60104	41395148		
3	Hapmap33718-BTA-152247	65.63701	41432313		
3	BTA-119272-no-rs	65.77265	41572438		
3	Hapmap60335-rs29018229	65.83231	41634074		

3	ARS-BFGL-NGS-117662	65.89865	41702611	
3	Hapmap39048-BTA-99764	65.93367	41738789	
3	ARS-BFGL-NGS-22924	66.00893	41816541	
3	ARS-BFGL-NGS-103300	66.03551	41844003	
3	INRA-645 66.14787	41960076		
3	ARS-BFGL-NGS-45264	66.26281	42078826	
3	ARS-BFGL-NGS-115249	66.28593	42102707	
3	Hapmap57990-rs29018907	66.31698	42134780	
3	Hapmap45730-BTA-67652	66.36206	42181356	
3	BTA-90242-no-rs 66.40884	42229689		
3	Hapmap44540-BTA-37562	66.46669	42289451	
3	ARS-BFGL-NGS-118748	66.51555	42339927	
3	ARS-BFGL-NGS-54102	66.58041	42378836	
3	Hapmap50499-BTA-90255	66.65286	42403309	
3	ARS-BFGL-NGS-115461	66.81552	42458258	
3	BTA-30080-no-rs 67.22	42684226		
3	ARS-BFGL-NGS-76208	67.22092	42791404	
3	Hapmap58939-rs29011360	67.24094	42815457	
3	BTA-67833-no-rs 67.25863	42836706		
3	ARS-BFGL-NGS-94815	67.30588	42893462	
3	ARS-BFGL-NGS-4915 67.37115	42971879		
3	BTA-91078-no-rs 67.42109	43031873		
3	ARS-BFGL-NGS-115126	67.50265	43129840	
3	INRA-196 67.52563	43157454		
3	Hapmap43400-BTA-91074	67.5591	43197664	
3	ARS-BFGL-NGS-102970	67.68616	43350303	
3	ARS-BFGL-NGS-110600	67.71597	43386099	
3	ARS-BFGL-NGS-38388	67.73	43476846	
3	ARS-BFGL-NGS-4511 67.7655	43575069		
3	ARS-BFGL-NGS-5511 67.81467	43604150		
3	ARS-BFGL-NGS-56706	67.86907	43636327	
3	Hapmap41056-BTA-67710	67.96535	43693273	
3	ARS-BFGL-NGS-16742	68.01117	43720374	
3	ARS-BFGL-NGS-102336	68.04602	43740990	
3	Hapmap49704-BTA-67707	68.14155	43797496	
3	ARS-BFGL-NGS-43914	68.21709	43842172	
3	ARS-BFGL-NGS-113910	68.38042	43939238	
3	ARS-BFGL-NGS-57417	68.40239	43975868	
3	ARS-BFGL-NGS-110746	68.43401	44028581	
3	Hapmap43653-BTA-67682	68.44614	44048816	
3	ARS-BFGL-NGS-4513 68.5202	44172303		
3	ARS-BFGL-NGS-57015	68.55674	44233220	
3	Hapmap42291-BTA-67678	68.62304	44343757	
3	ARS-BFGL-NGS-33061	68.63529	44364191	
3	Hapmap32570-BTA-141315	68.67157	44424682	
3	INRA-624 68.78143	44610516		
3	ARS-BFGL-NGS-55002	68.80009	44645973	
3	BTA-67761-no-rs 68.88997	44816800		
3	Hapmap33878-BES3_Contig472_2031	68.93452	44901462	
3	Hapmap43908-BTA-67758	68.96492	44959256	
3	Hapmap58769-rs29025951	68.9761	44980506	
3	ARS-BFGL-NGS-116605	69.01675	45057762	
3	Hapmap44656-BTA-67751	69.19969	45405468	
3	BTA-67750-no-rs 69.25449	45509616		
3	ARS-BFGL-NGS-108225	69.28773	45572779	
3	UA-IFASA-8370 69.42105	45826189		
3	BTA-67733-no-rs 69.44567	45872971		
3	INRA-547 69.49071	45958575		
3	UA-IFASA-5469 69.51089	45996935		

3	INRA-598	69.55791	46086314	
3	ARS-BFGL-NGS-112152	69.58348	46134907	
3	BTA-67712-no-rs	69.59432	46155505	
3	BTA-67763-no-rs	69.64329	46248565	
3	ARS-BFGL-NGS-26327	69.68015	46318628	
3	ARS-BFGL-NGS-74304	69.72848	46410484	
3	Hapmap34274-BES9_Contig508_1511	69.78741		46522488
3	BTB-01704067	69.83848	46619554	
3	BTA-95351-no-rs	69.86831	46676246	
3	Hapmap55244-rs29011654	69.88072	46699846	
3	BTB-01834875	69.89198	46721234	
3	Hapmap38207-BTA-19427	69.90594	46747787	
3	BTB-02008212	69.91823	46771130	
3	BTB-01463352	69.9395	46811548	
3	BTB-01463390	69.9558	46842537	
3	BTB-01608641	69.99794	46922624	
3	BTB-01898997	70.02702	46977886	
3	BTB-01800728	70.05733	47035496	
3	BTA-20774-no-rs	70.11153	47138507	
3	BTB-01851577	70.1259	47165828	
3	BTB-01537126	70.15827	47227363	
3	ARS-BFGL-NGS-34084	70.21621	47337477	
3	Hapmap33936-BES2_Contig521_671	70.2374		47377737
3	Hapmap50807-BTA-86717	70.25281	47407040	
3	BTB-01384383	70.27477	47448775	
3	Hapmap51073-BTA-86722	70.28922	47476248	
3	BTA-18980-no-rs	70.31172	47519010	
3	Hapmap42865-BTA-18979	70.32365	47541668	
3	Hapmap50494-BTA-86544	70.36114	47612930	
3	BTB-00462925	70.37533	47639897	
3	Hapmap35349-BES3_Contig390_1348	70.38074		47650188
3	BTB-00462855	70.39529	47677836	
3	Hapmap44321-BTA-96862	70.40878	47703475	
3	BTB-01924446	70.4267	47737541	
3	ARS-BFGL-NGS-4358	70.44798	47777991	
3	BTB-00462798	70.4702	47820211	
3	Hapmap42708-BTA-86534	70.48557	47849415	
3	Hapmap43383-BTA-86533	70.50211	47880849	
3	BTB-00462671	70.52216	47918979	
3	BTB-00462657	70.53722	47947600	
3	ARS-BFGL-NGS-115493	70.55	47972502	
3	Hapmap48045-BTA-67779	70.55	48018521	
3	BTB-01649999	70.55	48062099	
3	INRA-472	70.55	48101141	
3	Hapmap48658-BTA-122432	70.55	48139147	
3	ARS-BFGL-NGS-2006	70.55	48168247	
3	BTB-00127875	70.55345	48207674	
3	BTB-00127835	70.55573	48232935	
3	Hapmap48847-BTA-67772	70.56008	48281407	
3	INRA-492	70.56294	48313245	
3	BTB-00127618	70.56624	48349888	
3	Hapmap50755-BTA-67770	70.57238	48418222	
3	ARS-BFGL-NGS-35566	70.57474	48444429	
3	Hapmap40787-BTA-67768	70.57791	48479727	
3	ARS-BFGL-NGS-18230	70.5888	48600937	
3	ARS-BFGL-NGS-114558	70.59115	48627062	
3	ARS-BFGL-NGS-79934	70.59706	48692833	
3	ARS-BFGL-NGS-54036	70.6008	48734443	
3	ARS-BFGL-NGS-100739	70.60742	48808060	

3	ARS-BFGL-NGS-2325	70.6106	48843387		
3	ARS-BFGL-NGS-24128	70.61885	48935268		
3	ARS-BFGL-NGS-112061	70.62121	48961484		
3	Hapmap48939-BTA-90484	70.62304	48981859		
3	ARS-BFGL-NGS-42373	70.62479	49001262		
3	Hapmap46773-BTA-121585	70.62907	49048879		
3	Hapmap33204-BTA-141404	70.63179	49079184		
3	ARS-BFGL-NGS-114059	70.6336	49099296		
3	ARS-BFGL-NGS-116978	70.64272	49200769		
3	Hapmap59096-rs29024776	70.65484	49335664		
3	ARS-BFGL-NGS-60373	70.6586	49377491		
3	Hapmap44203-BTA-115893	70.69489	49431468		
3	Hapmap33585-BTA-141411	70.7862	49531950		
3	ARS-BFGL-NGS-119151	70.79779	49544712		
3	ARS-BFGL-NGS-103527	70.80388	49551407		
3	ARS-BFGL-NGS-116927	70.89	49604937		
3	ARS-BFGL-NGS-40545	70.89	49639691		
3	ARS-USMARC-Parent-AY842473-rs29001956			70.89	49703647
3	ARS-BFGL-NGS-104366	70.89	49704834		
3	Hapmap54122-rs29015114	70.89	49734521		
3	ARS-BFGL-NGS-114827	70.89	49888628		
3	ARS-BFGL-NGS-115817	70.89	50056167		
3	ARS-BFGL-NGS-23466	70.89	50222531		
3	Hapmap59329-rs29016370	70.89	50309627		
3	Hapmap55023-rs29015745	70.89	50341876		
3	INRA-131	70.89	50509843		
3	ARS-BFGL-NGS-119852	70.89	50624920		
3	ARS-BFGL-NGS-34393	70.89	50673505		
3	Hapmap57732-rs29023272	70.89	50804085		
3	Hapmap60708-rs29011181	70.89	50813514		
3	BTA-100463-no-rs	70.89	50835532		
3	INRA-648	70.895	51126976		
3	Hapmap42034-BTA-100462	70.89986	51172850		
3	Hapmap44021-BTA-122250	70.90752	51245024		
3	INRA-611	70.92388	51399357		
3	Hapmap59681-rs29019879	70.94518	51600304		
3	INRA-201	70.97	51867500		
3	ARS-BFGL-NGS-85284	70.9884	51914272		
3	INRA-618	71.01254	51956243		
3	ARS-USMARC-Parent-AY842474-rs29003226			71.02428	51976646
3	ARS-BFGL-NGS-35164	71.03791	52000343		
3	ARS-BFGL-NGS-112017	71.17858	52244859		
3	Hapmap60328-rs29027404	71.1913	52266974		
3	ARS-BFGL-NGS-111399	71.21178	52302576		
3	ARS-BFGL-NGS-105483	71.22	52329712		
3	BTA-67983-no-rs	71.23388	52365157		
3	Hapmap43654-BTA-67984	71.26587	52402934		
3	ARS-BFGL-NGS-83439	71.41197	52575462		
3	BTA-22647-no-rs	71.6074	52806252		
3	Hapmap60025-rs29013313	71.63129	52834458		
3	INRA-170	71.72404	52943988		
3	INRA-510	71.77168	53000242		
3	Hapmap43965-BTA-89883	71.92918	53186248		
3	ARS-BFGL-NGS-25387	71.95551	53217333		
3	ARS-BFGL-NGS-38691	72.02272	53296703		
3	INRA-687	72.04142	53318789		
3	Hapmap49266-BTA-67908	72.06207	53343172		
3	BTA-67911-no-rs	72.07941	53363656		
3	INRA-297	72.09712	53384563		

3	BTA-67916-no-rs	72.14503	53441135	
3	ARS-BFGL-NGS-61489	72.19124	53495709	
3	ARS-BFGL-NGS-109932	72.25769	53574180	
3	ARS-BFGL-NGS-113707	72.27802	53598182	
3	ARS-BFGL-NGS-109989	72.31197	53638272	
3	ARS-BFGL-NGS-43845	72.33177	53661660	
3	ARS-BFGL-NGS-68522	72.35374	53687603	
3	ARS-BFGL-NGS-119065	72.39047	53730982	
3	ARS-BFGL-NGS-98515	72.42583	53772746	
3	Hapmap57193-rs29021598	72.48666	53844578	
3	Hapmap48848-BTA-67904	72.512	53874498	
3	ARS-BFGL-NGS-43853	72.5534	53923380	
3	ARS-BFGL-NGS-112952	72.58074	53955669	
3	Hapmap39818-BTA-29723	72.64456	54031042	
3	Hapmap46132-BTA-29718	72.70599	54082178	
3	ARS-BFGL-NGS-12447	72.77338	54106267	
3	BTA-92147-no-rs	72.90021	54151601	
3	ARS-BFGL-NGS-117514	73.16312	54245577	
3	INRA-417	73.22519	54267761	
3	BTA-67896-no-rs	75.43052	55108725	
3	Hapmap51282-BTA-67903	75.57089	55187147	
3	ARS-BFGL-NGS-62913	75.64413	55218518	
3	Hapmap53284-rs29015774	75.89919	55327770	
3	Hapmap25267-BTA-141454	76.0641	55398408	
3	ARS-BFGL-NGS-6128	76.14815	55434410	
3	Hapmap50438-BTA-67925	76.38976	55537894	
3	BTA-118287-no-rs	77.42702	56205436	
3	Hapmap39892-BTA-118279	77.47132	56292899	
3	Hapmap23647-BTA-158339	77.5	56357743	
3	ARS-BFGL-NGS-112319	77.5	56393301	
3	INRA-685	77.5	56473625	
3	Hapmap44542-BTA-39695	77.5	56494361	
3	Hapmap43782-BTA-118016	77.5	56602309	
3	Hapmap22861-BTA-141421	77.5	56669877	
3	ARS-BFGL-NGS-31407	77.5	56705237	
3	INRA-176	77.5	56734548	
3	ARS-BFGL-NGS-103935	77.66125	56884677	
3	ARS-BFGL-NGS-119366	77.79972	56959267	
3	ARS-BFGL-NGS-71355	77.88505	57005233	
3	INRA-691	78.0474	57092692	
3	ARS-BFGL-NGS-116677	78.11898	57131253	
3	Hapmap43156-BTA-112841	78.19682	57173183	
3	ARS-BFGL-NGS-2985	78.40134	57283356	
3	ARS-BFGL-NGS-69251	78.73623	57515766	
3	Hapmap44119-BTA-67972	78.78275	57633063	
3	INRA-63	78.80128	57679768	
3	INRA-353	78.81164	57705905	
3	Hapmap30633-BTA-67965	78.85348	57811390	
3	ARS-BFGL-NGS-32229	78.87203	57858170	
3	BTA-67964-no-rs	78.88336	57886739	
3	Hapmap47376-BTA-67990	78.91	58003570	
3	Hapmap55448-rs29020629	78.91	58030374	
3	ARS-USMARC-Parent-DQ435443-rs29010802	78.91	58040470	
3	Hapmap52375-rs29010802	78.91	58040470	
3	ARS-BFGL-NGS-104818	78.91	58105227	
3	BTA-16282-no-rs	78.91	58175690	
3	Hapmap43441-BTA-103289	78.9164	58238859	
3	ARS-BFGL-NGS-111614	78.93663	58387438	
3	ARS-BFGL-NGS-20652	78.94305	58434544	

3	Hapmap43014-BTA-68033	79.03371	58673264	
3	ARS-BFGL-NGS-109806	79.07091	58697049	
3	ARS-BFGL-NGS-112146	79.10955	58721756	
3	ARS-BFGL-NGS-34944	79.21335	58882992	
3	INRA-649	79.23118	58933414	
3	ARS-BFGL-NGS-81	79.26273	59022652	
3	INRA-519	79.28312	59080316	
3	ARS-BFGL-NGS-114017	79.31453	59112195	
3	ARS-BFGL-NGS-16054	79.79218	59354122	
3	INRA-451	79.90612	59411832	
3	Hapmap41059-BTA-68043	79.94746	59432773	
3	Hapmap40019-BTA-68045	80.01357	59466257	
3	ARS-BFGL-NGS-53229	80.09	59537128	
3	Hapmap61026-rs29020444	80.09464	59564433	
3	Hapmap59005-rs29027243	80.11604	59601170	
3	BTA-68049-no-rs	80.26183	59664152	
3	ARS-BFGL-NGS-18095	80.3111	59685435	
3	Hapmap51028-BTA-68052	80.38847	59718856	
3	UA-IFASA-9204	80.5973	59809071	
3	BTB-00130211	80.65748	59835074	
3	ARS-BFGL-NGS-13810	80.78259	59889122	
3	ARS-BFGL-NGS-115664	80.86949	59926660	
3	Hapmap41331-BTA-68128	81.20805	60072921	
3	BTB-00130969	81.39068	60147732	
3	Hapmap56074-rs29026779	81.50397	60193801	
3	BTB-01830087	81.77421	60303679	
3	Hapmap41468-BTA-19097	81.82568	60324610	
3	ARS-BFGL-NGS-68572	81.9178	60362069	
3	BTB-01323076	81.98291	60388539	
3	Hapmap34680-BES10_Contig692_2496	82.04289	60412931	60412931
3	BTB-01322840	82.28074	60502347	
3	BTA-22670-no-rs	82.43562	60546730	
3	ARS-BFGL-NGS-110525	82.51743	60570173	
3	BTA-22681-no-rs	82.65762	60610342	
3	ARS-BFGL-NGS-26843	82.88316	60674971	
3	Hapmap50439-BTA-68100	83.08524	60732882	
3	Hapmap53609-rs29011253	83.17355	60758182	
3	BTB-00130588	83.37951	60817205	
3	ARS-BFGL-NGS-12004	83.49767	60851066	
3	Hapmap48436-BTA-68098	83.58894	60892186	
3	BTA-68096-no-rs	83.62341	60929295	
3	INRA-520	83.6464	60954055	
3	Hapmap39465-BTA-116795	83.67249	60982148	
3	Hapmap32532-BTA-116798	83.71049	61023067	
3	ARS-BFGL-NGS-111744	83.73824	61052934	
3	BTA-19821-no-rs	83.77152	61088774	
3	ARS-BFGL-NGS-27073	83.80977	61129959	
3	Hapmap55332-rs29012951	83.8688	61193516	
3	BTB-00131085	83.91196	61239989	
3	Hapmap48047-BTA-68130	83.95403	61285285	
3	BTA-68142-no-rs	84.04585	61384165	
3	ARS-BFGL-NGS-119733	84.17998	61528576	
3	INRA-456	84.24586	61599520	
3	BTB-00131364	84.27489	61630774	
3	ARS-BFGL-NGS-10798	84.30207	61660040	
3	BTB-00131540	84.33778	61698496	
3	BTB-01587097	84.39361	61758600	
3	BTB-01587043	84.41869	61785604	
3	BTA-96237-no-rs	84.47485	61846076	

3	Hapmap48535-BTA-96235	84.5199	61894582	
3	ARS-BFGL-NGS-112148	84.54404	61920582	
3	Hapmap48133-BTA-96243	84.56921	61947686	
3	Hapmap59991-rs29016955	84.59853	61979252	
3	INRA-638	84.62172	62004226	
3	BTB-02017777	84.65062	62035181	
3	BTB-01210452	84.75821	62124012	
3	BTB-01210458	84.78472	62145904	
3	BTB-01982674	84.81961	62174708	
3	ARS-BFGL-NGS-15662	84.84593	62196445	
3	Hapmap51550-BTA-111095	84.90099	62241899	
3	Hapmap34029-BES2_Contig454_1301	85.0478		62363117
3	Hapmap41459-BTA-122439	85.07	62430724	
3	Hapmap48183-BTA-111096	85.07	62458422	
3	Hapmap50565-BTA-111099	85.07	62483581	
3	BTB-01629547	85.10563	62533324	
3	BTB-01629524	85.16759	62560627	
3	BTB-01629562	85.24268	62593709	
3	ARS-BFGL-NGS-57708	85.29194	62615411	
3	UA-IFASA-9724	85.41282	62668669	
3	UA-IFASA-7751	85.46112	62689947	
3	BTB-01359494	85.51117	62712000	
3	BTB-01359472	85.57158	62738616	
3	Hapmap60154-rs29009992	85.6479	62772239	
3	BTB-01359433	85.73155	62809095	
3	BTA-88752-no-rs	85.90942	62887463	
3	BTA-111984-no-rs	86.3016	63060246	
3	BTB-01215923	86.4509	63136013	
3	BTA-111973-no-rs	86.55518	63196635	
3	Hapmap60978-rs29013811	86.66002	63257582	
3	BTB-01215978	86.69733	63279274	
3	BTB-01215981	86.7602	63315825	
3	BTA-19671-no-rs	86.82472	63353331	
3	BTB-02064703	86.89667	63395160	
3	BTA-111980-no-rs	86.95493	63429032	
3	BTB-01480514	87.09029	63507722	
3	BTB-01480538	87.23677	63592875	
3	Hapmap60621-rs29009820	87.27851	63617142	
3	Hapmap35277-BES11_Contig312_1237	87.37428		63672814
3	BTB-01659257	87.4922	63741374	
3	Hapmap27957-BTA-141461	87.71505	63870930	
3	Hapmap35621-SCAFFOLD36250_11008	87.79404		63916846
3	BTB-01897140	87.83218	63939015	
3	BTB-00132114	87.91405	63986613	
3	BTB-00132105	87.95893	64012709	
3	BTB-00132025	88.0137	64044549	
3	BTA-68164-no-rs	88.06079	64071923	
3	BTB-00131847	88.10494	64097592	
3	Hapmap47513-BTA-114957	88.21269	64160232	
3	BTB-00131742	88.22265	64166020	
3	BTB-00131667	88.25	64186622	
3	BTB-00131640	88.25	64231123	
3	ARS-BFGL-NGS-112978	88.25	64268724	
3	BTA-104054-no-rs	88.33658	64353144	
3	BTB-01755216	88.52469	64428546	
3	Hapmap51163-BTA-118898	88.55962	64442549	
3	BTB-01755246	88.62292	64467919	
3	Hapmap34793-BES2_Contig447_1495	88.68687		64493554
3	Hapmap23441-BTA-158332	88.85159	64559579	

3	BTB-01662069	89.00174	64619764	
3	ARS-BFGL-NGS-28774	89.17117	64687676	
3	BTA-05965-rs29020116	89.28	64867827	
3	BTA-118190-no-rs	89.50762	64944718	
3	Hapmap46271-BTA-105331	90.00281	65089591	
3	Hapmap48164-BTA-105327	90.07856	65163724	
3	BTA-107655-no-rs	90.10616	65190739	
3	Hapmap43143-BTA-107652	90.16653	65249829	
3	ARS-BFGL-NGS-24905	90.22147	65303582	
3	BTB-01177941	90.25371	65335142	
3	Hapmap34153-BES4_Contig290_1439	90.28139		65362228
3	BTB-01177772	90.32986	65409663	
3	Hapmap42777-BTA-105321	90.36684	65445867	
3	ARS-BFGL-NGS-43553	90.4427	65520107	
3	Hapmap48578-BTA-105324	90.46553	65542452	
3	ARS-BFGL-NGS-11902	90.49121	65567581	
3	BTA-105510-no-rs	90.52438	65600037	
3	BTB-01580535	90.58373	65658133	
3	BTB-01580562	90.61047	65684294	
3	BTB-01900082	90.64567	65718746	
3	Hapmap49033-BTA-115567	90.67112	65743652	
3	Hapmap46205-BTA-18349	90.74873	65819607	
3	BTB-01819775	90.77842	65848664	
3	Hapmap40266-BTA-26005	90.80912	65878717	
3	Hapmap55356-rs29019303	90.85603	65924617	
3	Hapmap39940-BTA-68017	90.88438	65952377	
3	Hapmap56885-rs29027552	90.91791	65985183	
3	BTA-121588-no-rs	90.95988	66026261	
3	Hapmap40185-BTA-68018	91.00212	66067599	
3	ARS-BFGL-NGS-19966	91.04737	66111884	
3	BTB-02075090	91.09863	66162056	
3	BTA-20420-no-rs	91.13548	66198115	
3	Hapmap50882-BTA-119474	91.23566	66296159	
3	Hapmap33789-BTA-158745	91.25591	66315977	
3	Hapmap50576-BTA-114951	91.28173	66341251	
3	INRA-439	91.3233	66381935	
3	BTA-86788-no-rs	91.34386	66402051	
3	ARS-BFGL-NGS-103136	91.39844	66455469	
3	BTB-01946657	91.41661	66463222	
3	ARS-BFGL-NGS-104721	91.48003	66486992	
3	Hapmap41669-BTA-87427	91.55118	66513658	
3	BTA-110572-no-rs	91.65976	66554349	
3	BTB-01203398	91.84971	66625534	
3	BTB-01203408	91.92301	66653007	
3	Hapmap58090-rs29011201	92.05545	66702642	
3	BTB-01203471	92.14165	66734946	
3	BTB-01203529	92.23237	66768945	
3	ARS-BFGL-NGS-44279	92.32771	66804676	
3	BTB-01203653	92.43955	66846587	
3	Hapmap41426-BTA-109878	92.44	66874474	
3	BTB-01203760	92.44678	66895562	
3	Hapmap32625-BTA-155642	92.46858	66931551	
3	ARS-BFGL-NGS-2777	92.49919	66982081	
3	ARS-BFGL-NGS-84153	92.56834	67096213	
3	BTA-74217-no-rs	92.58566	67124807	
3	Hapmap39597-BTA-87082	92.6023	67152286	
3	Hapmap51336-BTA-87078	92.62431	67188601	
3	ARS-BFGL-NGS-25259	92.64934	67229918	
3	BTB-01387385	92.6646	67255114	



3	BTB-01805031	92.69418	67303946
3	INRA-400	92.72141	67348877
3	Hapmap26754-BTA-158188	92.76533	67421386
3	ARS-BFGL-NGS-93369	92.77914	67444200
3	Hapmap43909-BTA-68300	92.79747	67474440
3	Hapmap50441-BTA-68295	92.8437	67550755
3	BTB-00133369	92.87045	67594920
3	ARS-BFGL-NGS-11705	92.89318	67632435
3	ARS-BFGL-NGS-95501	92.91761	67672761
3	BTA-101561-no-rs	92.9439	67716160
3	INRA-256	92.94811	67723115
3	Hapmap54928-ss46526596	93.00768	67827369
3	BTB-01535640	93.02553	67860680
3	BTB-01097129	93.03824	67884386
3	BTB-01097190	93.05995	67924884
3	BTB-01940721	93.08291	67967706
3	Hapmap59693-rs29021260	93.09464	67989590
3	BTA-68264-no-rs	93.10538	68009628
3	BTB-00133036	93.11868	68034408
3	BTB-00268758	93.14214	68078177
3	ARS-BFGL-NGS-100381	93.16388	68118726
3	ARS-BFGL-NGS-33433	93.2114	68207361
3	ARS-BFGL-NGS-32201	93.22811	68238543
3	BTB-01097609	93.24575	68271435
3	BTB-01097645	93.26514	68307607
3	ARS-BFGL-NGS-43311	93.29949	68371673
3	ARS-BFGL-NGS-5902	93.33191	68432145
3	ARS-BFGL-NGS-118001	93.34953	68465008
3	BTB-01098164	93.36177	68487836
3	ARS-BFGL-NGS-90350	93.3768	68515881
3	BTB-01635474	93.3968	68553177
3	BTB-01635437	93.40883	68575626
3	Hapmap48179-BTA-109399	93.42013	68596691
3	ARS-BFGL-NGS-13532	93.46571	68681709
3	BTB-01098205	93.47681	68702409
3	BTA-94554-no-rs	93.489	68725151
3	BTA-94549-no-rs	93.50642	68757647
3	BTB-01451979	93.52633	68794776
3	BTB-01749645	93.54135	68822799
3	ARS-BFGL-NGS-116367	93.55818	68854192
3	ARS-BFGL-NGS-88177	93.58629	68906613
3	Hapmap48270-BTA-27130	93.60234	68936563
3	Hapmap44273-BTA-68311	93.61958	68968701
3	BTB-00134027	93.63865	69004282
3	INRA-99	93.65957	69043305
3	Hapmap46316-BTA-68304	93.68144	69084105
3	BTB-00133827	93.70264	69123629
3	Hapmap51482-BTA-68303	93.72066	69157266
3	BTB-01635025	93.73437	69182813
3	BTB-00133734	93.79326	69292666
3	BTB-00133701	93.80544	69315385
3	BTB-00133671	93.81989	69342335
3	ARS-USMARC-53	93.831	69363070
3	BTB-01711286	93.84616	69391345
3	ARS-BFGL-NGS-69986	93.86256	69421920
3	BTB-00134789	93.88057	69455528
3	ARS-BFGL-NGS-103155	93.89943	69490696
3	BTB-00134823	93.91049	69511339
3	BTB-00134893	93.94709	69579599

3	BTB-00134756	93.97952	69640070	
3	BTB-00134713	93.99336	69665903	
3	BTB-00134661	94.02039	69716313	
3	BTB-00134495	94.04001	69752915	
3	Hapmap45444-BTA-68325	94.05752	69785571	
3	Hapmap34313-BES4_Contig160_1015	94.08281		69832745
3	Hapmap41935-BTA-68323	94.12029	69870365	
3	BTA-68322-no-rs	94.16372	69905106	
3	Hapmap51849-BTA-68314	94.24237	69968011	
3	ARS-BFGL-NGS-14073	94.3793	70077512	
3	BTB-00134949	94.43336	70120751	
3	BTB-00134979	94.492	70167658	
3	BTB-00134966	94.52103	70190874	
3	BTB-00135076	94.55499	70218036	
3	ARS-BFGL-NGS-102662	94.58081	70238678	
3	BTB-00135094	94.61473	70265808	
3	UA-IFASA-8522	94.62862	70276912	
3	BTA-10440-no-rs	94.67473	70313793	
3	BTB-01472286	94.78497	70399891	
3	BTB-00096666	94.91946	70496274	
3	BTB-00096498	95.01914	70567716	
3	BTB-00096447	95.05373	70592505	
3	BTB-01093811	95.20947	70704122	
3	BTB-01093766	95.27206	70748977	
3	BTB-01293453	95.52631	70931186	
3	Hapmap54082-rs29012776	95.73091	71077825	
3	BTB-01293745	95.82026	71141852	
3	ARS-BFGL-NGS-8303	95.88837	71190672	
3	BTB-01293614	95.9557	71238926	
3	BTB-01293817	95.9997	71270454	
3	BTB-01393342	96.04674	71304167	
3	Hapmap51921-BTA-87964	96.08134	71331734	
3	BTA-87963-no-rs	96.14502	71383017	
3	BTA-87962-no-rs	96.31051	71516276	
3	BTB-01282002	96.36886	71563255	
3	BTB-01392993	96.40997	71596348	
3	BTB-01702238	96.51227	71672549	
3	ARS-BFGL-NGS-115928	96.74474	71836680	
3	Hapmap27208-BTA-157501	96.77787	71860062	
3	BTB-01905862	96.86528	71882823	
3	BTB-01230096	96.96174	71906864	
3	BTB-00135233	97.05087	71929079	
3	BTB-01281817	97.33924	72000950	
3	ARS-BFGL-NGS-105925	97.49706	72040284	
3	BTB-01281718	97.60613	72067475	
3	Hapmap51082-BTA-89468	97.82851	72122900	
3	BTB-01229999	97.95821	72155223	
3	BTA-114873-no-rs	98.07338	72183926	
3	ARS-BFGL-NGS-67327	99.2833	72519744	
3	ARS-BFGL-NGS-49057	99.46268	72604524	
3	BTB-00135284	99.75735	72743814	
3	Hapmap40508-BTA-21513	100.3743	73035441	
3	Hapmap42603-BTA-61004	100.6764	73178234	
3	ARS-BFGL-NGS-48139	100.7844	73229266	
3	Hapmap25809-BTA-132460	101.2833	73465083	
3	BTB-00722506	101.4125	73526172	
3	Hapmap32799-BTA-132450	101.4624	73549770	
3	BTB-01072128	101.6795	73652370	
3	Hapmap48592-BTA-107734	101.7548	73687938	

3	ARS-BFGL-NGS-108605	102.1362	73868215
3	BTB-01071906	102.1931	73895121
3	BTA-107777-no-rs	102.2491	73921609
3	ARS-BFGL-NGS-119369	102.4135	73999306
3	BTA-107775-no-rs	102.5912	74083294
3	Hapmap57979-rs29017982	102.7621	74179845
3	Hapmap43144-BTA-107773	102.7761	74204900
3	ARS-BFGL-NGS-18931	102.7927	74234478
3	BTA-107738-no-rs	102.838	74315105
3	Hapmap39078-BTA-107737	102.8777	74385782
3	Hapmap60223-rs29010020	102.9563	74525857
3	ARS-BFGL-NGS-67585	102.9791	74566488
3	BTB-01071609	102.9988	74601506
3	BTB-00135542	103.0184	74636373
3	Hapmap55103-rs29011390	103.0791	74744528
3	BTA-68360-no-rs	103.1306	74836184
3	BTB-00135596	103.165	74897466
3	ARS-BFGL-NGS-25040	103.1775	74919850
3	Hapmap40459-BTA-68361	103.1928	74946979
3	Hapmap42002-BTA-89609	103.2355	75023173
3	BTA-68347-no-rs	103.3329	75196565
3	ARS-BFGL-NGS-16740	103.4273	75364755
3	Hapmap38244-BTA-68351	103.4406	75388417
3	Hapmap56783-rs29013974	103.4548	75413638
3	Hapmap43910-BTA-68352	103.4714	75443336
3	Hapmap49707-BTA-68355	103.5274	75543048
3	ARS-BFGL-NGS-32439	103.5414	75567932
3	ARS-BFGL-NGS-8612	103.5572	75596061
3	BTB-00135420	103.6101	75690381
3	ARS-BFGL-NGS-34068	103.6366	75737505
3	BTB-01933332	103.7034	75856447
3	BTA-102327-no-rs	103.7256	75896085
3	BTB-01542662	103.7546	75947681
3	BTB-01542625	103.7684	75972207
3	ARS-BFGL-NGS-40979	103.804	76035716
3	Hapmap49435-BTA-108951	103.8352	76091197
3	BTB-00136493	103.8704	76153900
3	ARS-BFGL-NGS-79186	103.8849	76179843
3	BTB-00135877	103.8992	76205196
3	BTB-02080963	103.9104	76225293
3	BTB-00136380	103.9511	76297775
3	BTB-00136366	103.9679	76327590
3	BTB-02041459	103.9904	76367708
3	BTA-94162-no-rs	104.0123	76406790
3	BTB-00136311	104.0251	76429465
3	BTB-00136233	104.0389	76454069
3	Hapmap53126-rs29022865	104.0544	76481717
3	BTB-01834732	104.0898	76544780
3	UA-IFASA-5864	104.1021	76566650
3	BTB-00136082	104.1314	76618845
3	ARS-BFGL-NGS-57421	104.1477	76647833
3	Hapmap44312-BTA-91481	104.183	76685944
3	BTB-01508954	104.2422	76727514
3	BTB-01508965	104.2752	76750610
3	INRA-142	104.3105	76775439
3	BTB-01509081	104.3422	76797698
3	BTB-01509091	104.3757	76821191
3	BTB-01810345	104.5716	76958680
3	Hapmap27270-BTA-92143	104.8149	77129465

3	Hapmap35132-BES4_Contig245_660	104.859	77160399
3	BTB-00136736	105.0044	77262487
3	Hapmap45138-BTA-87857	105.033	77282550
3	BTB-01923614	105.0763	77312933
3	BTB-01060056	105.1371	77355587
3	ARS-BFGL-NGS-66643	105.2071	77404750
3	BTB-01059999	105.267	77446808
3	ARS-BFGL-NGS-39184	105.3245	77487187
3	ARS-BFGL-NGS-103309	105.4904	77603571
3	BTA-68406-no-rs	105.5793	77666001
3	BTB-00137106	105.6451	77712209
3	Hapmap44396-BTA-68407	105.6766	77734314
3	BTB-01869177	105.8364	77846465
3	BTB-00137261	105.9457	77923168
3	BTB-00137231	105.9968	77959050
3	BTB-00137287	106.0209	77975986
3	BTB-01917890	106.0811	78018190
3	BTA-115703-no-rs	106.1168	78043300
3	ARS-BFGL-NGS-33377	106.21	78108702
3	ARS-BFGL-NGS-34260	106.2981	78170557
3	BTB-00373687	106.4008	78242632
3	BTA-82678-no-rs	106.4333	78265433
3	ARS-BFGL-NGS-114340	106.5155	78323155
3	ARS-BFGL-NGS-67919	106.6014	78383390
3	BTB-01375201	106.6492	78416963
3	Hapmap42166-BTA-28554	106.86	78564953
3	ARS-BFGL-NGS-115005	106.88	78617992
3	ARS-BFGL-NGS-111499	106.8849	78644818
3	Hapmap48514-BTA-89077	106.9287	78690704
3	BTB-01168168	106.965	78728684
3	BTA-102712-no-rs	107.0117	78777587
3	Hapmap48656-BTA-122282	107.1409	78912967
3	Hapmap38558-BTA-102711	107.18	78971559
3	BTB-01168089	107.1824	78998337
3	BTB-01168059	107.1926	79025375
3	UA-IFASA-2622	107.2092	79069350
3	BTB-01155362	107.2763	79247381
3	BTB-01155381	107.2896	79282515
3	Hapmap33276-BTA-99846	107.3008	79312407
3	Hapmap39300-BTA-99855	107.3086	79333053
3	BTB-01155479	107.3258	79378528
3	ARS-BFGL-NGS-60582	107.335	79402892
3	ARS-BFGL-NGS-31953	107.3641	79480234
3	BTA-99819-no-rs	107.3748	79508402
3	BTB-01155798	107.4022	79581142
3	Hapmap41709-BTA-99825	107.4117	79606410
3	Hapmap61146-rs29010867	107.43	79674161
3	Hapmap39877-BTA-99831	107.43	79698786
3	Hapmap28134-BTA-152098	107.43	79753931
3	BTB-01155969	107.43	79777779
3	ARS-BFGL-NGS-34527	107.43	79800652
3	BTB-00597108	107.43	79997340
3	Hapmap26677-BTA-141535	107.43	80099276
3	ARS-BFGL-NGS-74572	107.43	80193703
3	UA-IFASA-6589	107.43	80265751
3	ARS-BFGL-NGS-118303	107.43	80304501
3	Hapmap49708-BTA-68421	107.43	80387976
3	ARS-BFGL-NGS-118634	107.4336	80437270
3	BTA-91587-no-rs	107.4429	80517326

3	ARS-BFGL-NGS-34570	107.4481	80562496
3	ARS-BFGL-NGS-32429	107.4545	80617449
3	Hapmap41622-BTA-71678	107.4588	80654732
3	ARS-BFGL-NGS-63410	107.4625	80686312
3	Hapmap41129-BTA-102412	107.4687	80739070
3	BTA-102407-no-rs	107.472	80767668
3	BTB-01543508	107.4755	80798088
3	Hapmap58391-rs29019654	107.4784	80822661
3	BTB-00138938	107.4828	80860593
3	ARS-BFGL-NGS-114072	107.4861	80889108
3	ARS-BFGL-NGS-111229	107.4947	80962731
3	Hapmap51621-BTA-68487	107.4993	81002922
3	BTB-00139181	107.5045	81047780
3	ARS-BFGL-NGS-33471	107.51	81094906
3	INRA-321	107.513	81120497
3	ARS-BFGL-NGS-106180	107.5242	81217180
3	BTB-00139667	107.5273	81243127
3	BTB-00139586	107.5322	81285806
3	Hapmap43912-BTA-68491	107.5352	81311774
3	ARS-BFGL-NGS-112987	107.5403	81355108
3	BTB-01832443	107.5431	81379707
3	ARS-BFGL-NGS-118254	107.5468	81411041
3	BTB-00138441	107.5488	81428130
3	ARS-BFGL-NGS-103424	107.5547	81444356
3	ARS-BFGL-NGS-31952	107.5779	81472159
3	Hapmap55763-rs29012939	107.6061	81506020
3	BTB-01876776	107.6428	81550138
3	BTA-22557-no-rs	107.6641	81575667
3	Hapmap33205-BTA-141538	107.697	81615240
3	BTA-68453-no-rs	107.7095	81630254
3	BTB-00138041	107.7453	81673140
3	ARS-BFGL-NGS-108208	107.8053	81745268
3	BTB-00137937	107.8301	81774972
3	BTB-00137929	107.8515	81800637
3	BTA-68508-no-rs	107.8865	81842704
3	ARS-BFGL-NGS-77911	107.9185	81881084
3	BTB-01771876	107.9398	81906693
3	BTA-68507-no-rs	107.9724	81945861
3	ARS-BFGL-NGS-117782	107.9949	81972876
3	BTB-00139874	108.0119	81993242
3	ARS-BFGL-NGS-83572	108.0293	82014166
3	BTB-00139825	108.0488	82037605
3	BTA-68497-no-rs	108.2196	82067836
3	BTA-68496-no-rs	108.39	82113195
3	INRA-137	108.39	82160715
3	BTB-00139691	108.39	82187624
3	Hapmap58865-ss46526158	108.39	82250730
3	ARS-BFGL-NGS-34027	108.39	82623974
3	Hapmap47805-BTA-101148	108.39	82653990
3	Hapmap41719-BTA-101147	108.39	82677195
3	BTB-00139963	108.39	82984186
3	Hapmap41060-BTA-68516	108.39	83093150
3	BTA-68532-no-rs	108.39	83122993
3	ARS-BFGL-NGS-89351	108.39	83242603
3	BTA-68535-no-rs	108.39	83306806
3	BTB-00140470	108.39	83410090
3	Hapmap49268-BTA-68367	108.39	83500066
3	BTB-00140947	108.39	83534093
3	Hapmap40290-BTA-68546	108.39	83574052

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3	BTA-68565-no-rs	108.3975	83644705
3	Hapmap47699-BTA-68564	108.4041	83692702
3	ARS-BFGL-NGS-17040	108.4198	83806574
3	BTB-00140750	108.4235	83833594
3	ARS-BFGL-NGS-65863	108.4267	83856945
3	ARS-BFGL-NGS-13238	108.4317	83893310
3	Hapmap49270-BTA-68543	108.4399	83952776
3	ARS-BFGL-NGS-1567	108.4594	84094824
3	ARS-BFGL-NGS-96076	108.4671	84150653
3	ARS-BFGL-NGS-44176	108.4733	84195302
3	BTB-01466399	108.4871	84295666
3	BTB-01466258	108.4927	84336502
3	BTB-01466252	108.4936	84343122
3	ARS-BFGL-NGS-109293	108.4967	84365910
3	BTB-01466122	108.5037	84416536
3	Hapmap54744-rs29013475	108.509	84455380
3	BTB-00140587	108.5135	84487946
3	BTB-00146339	108.5211	84542984
3	BTB-02040570	108.5298	84606113
3	BTA-118308-no-rs	108.5328	84627858
3	ARS-BFGL-NGS-99481	108.5384	84669155
3	ARS-BFGL-NGS-2215	108.5418	84693517
3	ARS-BFGL-NGS-14549	108.5516	84764797
3	ARS-BFGL-NGS-107651	108.56	84825930
3	ARS-BFGL-NGS-119074	108.5644	84857706
3	BTB-00141142	108.5716	84910227
3	BTB-00141153	108.5755	84938304
3	BTA-68573-no-rs	108.5793	84966080
3	BTA-68574-no-rs	108.5899	85043515
3	BTA-68578-no-rs	108.5936	85069871
3	ARS-BFGL-NGS-119769	108.6107	85194375
3	ARS-BFGL-NGS-26530	108.6159	85232050
3	ARS-BFGL-NGS-103524	108.6188	85253155
3	BTA-95406-no-rs	108.6219	85275613
3	ARS-BFGL-NGS-38551	108.6252	85299919
3	BTB-01577228	108.6286	85324936
3	BTA-105192-no-rs	108.6329	85355582
3	BTA-105204-no-rs	108.6373	85388059
3	BTB-01463885	108.6431	85429665
3	BTB-00057954	108.6459	85450050
3	Hapmap34100-BES3_Contig74_659	108.6526	85498963
3	ARS-BFGL-NGS-20008	108.6556	85520539
3	ARS-BFGL-NGS-32615	108.66	85552726
3	ARS-BFGL-NGS-114856	108.6652	85590312
3	Hapmap41493-BTA-28649	108.6705	85629524
3	BTB-01389905	108.6864	85744437
3	BTB-01389843	108.6891	85764516
3	BTB-01389777	108.6908	85777031
3	ARS-BFGL-NGS-11694	108.6993	85838310
3	BTB-01389756	108.7022	85860004
3	BTB-01389725	108.708	85901731
3	ARS-BFGL-NGS-66463	108.7178	85944553
3	Hapmap51689-BTA-116275	108.8015	86047228
3	Hapmap39464-BTA-116273	108.8293	86081214
3	BTB-01240416	108.862	86121373
3	Hapmap43161-BTA-116272	108.87	86160189
3	BTB-01240408	108.87	86180854
3	BTB-01240396	108.87	86203369

3	BTB-01240403	108.87	86242539
3	ARS-BFGL-NGS-67595	108.8842	86270064
3	Hapmap43465-BTA-111846	108.9188	86310536
3	BTB-01240360	108.9551	86353035
3	Hapmap48852-BTA-68859	109.0529	86467404
3	BTA-68864-no-rs	109.092	86513188
3	BTB-00146483	109.1244	86551027
3	BTA-68587-no-rs	109.15	86646396
3	BTB-00141391	109.15	86715849
3	Hapmap58361-rs29011460	109.15	86762502
3	BTB-00141486	109.15	86784110
3	ARS-BFGL-NGS-101320	109.15	86806376
3	ARS-BFGL-NGS-29278	109.15	86865326
3	BTA-68603-no-rs	109.15	86886379
3	ARS-BFGL-NGS-117463	109.15	86907103
3	BTB-01794313	109.15	86941966
3	ARS-BFGL-NGS-15341	109.15	87002768
3	BTA-95419-no-rs	109.15	87030979
3	ARS-BFGL-NGS-4407	109.1545	87068034
3	Hapmap38643-BTA-95454	109.1622	87098494
3	Hapmap47785-BTA-95420	109.178	87161153
3	ARS-BFGL-NGS-109435	109.1972	87237528
3	ARS-BFGL-NGS-119952	109.2114	87293789
3	ARS-BFGL-NGS-112185	109.2405	87409431
3	Hapmap57348-rs29011302	109.2511	87451543
3	Hapmap53568-rs29013441	109.2576	87477115
3	ARS-BFGL-NGS-26741	109.2599	87486573
3	BTA-95444-no-rs	109.2862	87590836
3	ARS-BFGL-NGS-113889	109.2967	87632354
3	ARS-BFGL-NGS-22159	109.3059	87669013
3	ARS-BFGL-NGS-4690	109.3144	87702825
3	ARS-BFGL-NGS-102929	109.3285	87758663
3	ARS-BFGL-NGS-110127	109.3414	87809919
3	Hapmap50442-BTA-68886	109.3477	87834931
3	Hapmap54157-rs29026707	109.3544	87861675
3	ARS-BFGL-NGS-11603	109.3651	87904203
3	BTA-68885-no-rs	109.3905	87954648
3	ARS-BFGL-NGS-40956	109.4157	87993018
3	ARS-BFGL-NGS-20299	109.4423	88033447
3	ARS-BFGL-NGS-104209	109.4558	88054073
3	ARS-BFGL-NGS-102902	109.5102	88136761
3	Hapmap32684-BTA-89476	109.5322	88170287
3	BTA-68872-no-rs	109.6043	88279862
3	Hapmap58247-rs29024002	109.661	88366108
3	BTA-68610-no-rs	109.7533	88506442
3	ARS-BFGL-NGS-57959	109.8015	88579850
3	BTA-68613-no-rs	109.849	88652002
3	BTB-00141992	109.8696	88683457
3	ARS-BFGL-NGS-104839	109.8887	88712390
3	ARS-BFGL-NGS-3521	109.9079	88741652
3	BTB-00141857	109.9244	88766772
3	ARS-BFGL-NGS-80560	109.944	88796539
3	BTB-00141843	109.955	88842253
3	ARS-BFGL-NGS-100159	109.958	88864456
3	Hapmap41488-BTA-24106	109.9659	88923355
3	BTB-00143361	109.9697	88950716
3	ARS-BFGL-NGS-74207	109.9731	88976331
3	ARS-BFGL-NGS-10080	109.9812	89035862
3	BTA-68670-no-rs	109.9897	89098773

3	BTA-11699-no-rs	109.9969	89151787	
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3	BTB-00143286	110.008	89233653	
3	BTB-00143272	110.0112	89257029	
3	ARS-BFGL-NGS-67624	110.0145	89281678	
3	ARS-BFGL-NGS-100813	110.0198	89320961	
3	BTA-68663-no-rs	110.0207	89327246	
3	BTB-00143051	110.0234	89347495	
3	ARS-BFGL-NGS-70437	110.0269	89373222	
3	BTB-00142919	110.0304	89398993	
3	BTB-00142904	110.0336	89422763	
3	ARS-BFGL-NGS-100400	110.0383	89457353	
3	ARS-BFGL-NGS-87511	110.0426	89489290	
3	BTB-00142718	110.0463	89516613	
3	ARS-BFGL-NGS-112680	110.05	89543254	
3	ARS-BFGL-NGS-44564	110.0549	89579376	
3	ARS-BFGL-NGS-71626	110.0602	89621378	
3	Hapmap41332-BTA-68635	110.0631	89675602	
3	BTB-00142550	110.0653	89718673	
3	BTB-00142497	110.0663	89738009	
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3	INRA-342	110.0695	89797436	
3	Hapmap43328-BTA-68633	110.073	89865870	
3	ARS-BFGL-NGS-33630	110.0747	89897661	
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3	BTB-01755444	110.0874	90139402	
3	BTA-79026-no-rs	110.0907	90202355	
3	Hapmap57748-ss46526142	110.0921	90229884	
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3	ARS-BFGL-NGS-61705	110.0958	90300101	
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3	ARS-BFGL-NGS-16595	110.0986	90353180	
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3	ARS-BFGL-NGS-4466	110.1008	90394566	
3	BTB-01865796	110.1019	90415921	
3	Hapmap30329-BTA-163245	110.103	90436784	
3	ARS-BFGL-NGS-102021	110.1046	90467664	
3	Hapmap38204-BTA-17242	110.1061	90495998	
3	BTB-01295576	110.1075	90523019	
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3	BTB-00143455	110.1124	90616193	
3	BTB-00143468	110.1136	90639047	
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3	BTA-19061-no-rs	110.1164	90692920	
3	BTB-00546619	110.1176	90715864	
3	Hapmap40504-BTA-18839	110.1205	90770539	
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3	BTB-01294529	110.1257	90870255	
3	Hapmap27186-BTA-151189	110.1279	90912199	
3	BTB-01143243	110.1297	90944982	
3	BTB-01143192	110.1338	91023826	
3	BTB-01143158	110.1353	91051943	
3	Hapmap42056-BTA-108680	110.1397	91136875	
3	BTB-01195774	110.1434	91207629	
3	ARS-BFGL-NGS-13119	110.145	91237656	
3	Hapmap32622-BTA-155129	110.1462	91259493	



3	ARS-BFGL-NGS-40591	110.1485	91304468
3	ARS-BFGL-NGS-117695	110.1511	91352963
3	BTB-01195588	110.1553	91433659
3	BTA-108672-no-rs	110.1565	91456663
3	ARS-BFGL-NGS-116962	110.1581	91486052
3	BTB-01195369	110.1601	91524310
3	ARS-BFGL-NGS-73518	110.1618	91557958
3	Hapmap47494-BTA-108688	110.1632	91583640
3	ARS-BFGL-NGS-29953	110.1648	91615073
3	BTB-01195129	110.1664	91644794
3	BTB-01899527	110.1672	91660272
3	ARS-BFGL-NGS-5408	110.1723	91757984
3	BTB-00142063	110.1766	91840020
3	ARS-BFGL-NGS-58887	110.1786	91877739
3	ARS-BFGL-NGS-8722	110.1803	91910014
3	ARS-BFGL-NGS-100838	110.1814	91930742
3	BTB-00143481	110.1858	92015484
3	ARS-BFGL-NGS-1062	110.1893	92082212
3	ARS-BFGL-NGS-118592	110.1926	92144760
3	ARS-BFGL-NGS-95066	110.1939	92168493
3	ARS-BFGL-NGS-40486	110.195	92190368
3	ARS-BFGL-NGS-31520	110.1971	92229630
3	ARS-BFGL-NGS-12795	110.1998	92282547
3	ARS-BFGL-NGS-29595	110.201	92304109
3	ARS-BFGL-NGS-36607	110.2022	92327315
3	ARS-BFGL-NGS-111526	110.2051	92382200
3	ARS-BFGL-NGS-20205	110.2075	92427474
3	BTB-00143793	110.2085	92447724
3	Hapmap45127-BTA-68693	110.2098	92471742
3	ARS-BFGL-NGS-85256	110.2153	92577459
3	ARS-BFGL-NGS-30450	110.2178	92623849
3	ARS-BFGL-NGS-94913	110.2197	92661872
3	Hapmap53382-rs29010425	110.2237	92737954
3	BTB-00145030	110.2255	92770810
3	ARS-BFGL-NGS-32792	110.2267	92794948
3	BTA-68737-no-rs	110.2284	92826845
3	BTB-00144052	110.2307	92870768
3	BTB-00144037	110.232	92896187
3	BTA-68708-no-rs	110.2333	92919804
3	BTB-00143960	110.2356	92963692
3	ARS-BFGL-NGS-58066	110.2368	92986164
3	Hapmap53244-rs29026911	110.2389	93025923
3	ARS-BFGL-NGS-37368	110.24	93047215
3	ARS-BFGL-NGS-116828	110.2436	93116911
3	ARS-BFGL-NGS-24090	110.2461	93163180
3	ARS-BFGL-NGS-65964	110.2472	93184806
3	ARS-BFGL-NGS-40934	110.2483	93206341
3	ARS-BFGL-NGS-111451	110.2495	93229360
3	Hapmap42636-BTA-68725	110.2536	93306873
3	Hapmap52902-rs29010266	110.2548	93330506
3	UA-IFASA-2729	110.2556	93346014
3	ARS-BFGL-NGS-110079	110.2589	93407420
3	BTB-00144420	110.2599	93427136
3	ARS-BFGL-NGS-2480	110.2636	93497168
3	ARS-BFGL-NGS-91142	110.265	93523689
3	Hapmap44056-BTA-31538	110.2715	93647668
3	Hapmap23711-BTA-31541	110.2733	93682810
3	ARS-BFGL-NGS-103815	110.2744	93703308
3	ARS-BFGL-NGS-80689	110.2765	93744226

3	BTB-01600271	110.2797	93804369	
3	INRA-178	110.282	93847303	
3	BTB-01604189	110.2866	93936476	
3	BTB-01604193	110.2882	93966574	
3	ARS-BFGL-NGS-84424	110.2909	94017640	
3	ARS-BFGL-NGS-14376	110.293	94058556	
3	ARS-BFGL-NGS-77516	110.2954	94104219	
3	BTB-01517645	110.3011	94212820	
3	INRA-431	110.3031	94250186	
3	ARS-BFGL-NGS-114552	110.3091	94364377	
3	ARS-BFGL-NGS-107522	110.3192	94558099	
3	ARS-BFGL-NGS-119104	110.3205	94582292	
3	BTB-00145298	110.3216	94602436	
3	Hapmap41617-BTA-68815	110.3218	94606144	
3	Hapmap52112-rs29014008	110.3237	94642183	
3	BTB-00145372	110.3297	94758229	
3	BTB-00145401	110.331	94782166	
3	BTB-00145863	110.3324	94808128	
3	BTA-68842-no-rs	110.3349	94856229	
3	ARS-BFGL-NGS-116126	110.3414	94980177	
3	ARS-BFGL-NGS-113944	110.3487	95120026	
3	BTB-00145926	110.3558	95254105	
3	Hapmap36465-SCAFFOLD163794_561	110.3571	95279013	
3	ARS-BFGL-NGS-116734	110.3598	95330250	
3	BTB-00145986	110.3631	95392999	
3	BTB-00146014	110.3649	95427776	
3	BTB-00146049	110.3686	95497810	
3	ARS-BFGL-NGS-21385	110.37	95563985	
3	BTB-00148014	110.37	95625202	
3	ARS-BFGL-NGS-21195	110.37	95708039	
3	BTB-02090559	110.3719	95803713	
3	BTA-95308-no-rs	110.3751	95877445	
3	Hapmap57282-ss46526266	110.3772	95924827	
3	Hapmap32838-BTA-150446	110.3784	95953376	
3	BTB-00147175	110.3836	96072837	
3	ARS-BFGL-NGS-103342	110.3848	96100754	
3	BTA-95310-no-rs	110.3889	96195328	
3	BTB-00147118	110.3908	96238184	
3	BTB-00147033	110.3932	96293488	
3	Hapmap25832-BTA-141681	110.3945	96323465	
3	Hapmap51483-BTA-68908	110.3975	96391710	
3	BTB-00146940	110.3986	96417242	
3	Hapmap47075-BTA-68904	110.3995	96439085	
3	BTB-01991408	110.4041	96545620	
3	Hapmap58012-rs29023729	110.4065	96599741	
3	Hapmap42637-BTA-68894	110.4081	96637643	
3	INRA-420	110.4091	96660603	
3	ARS-BFGL-NGS-90515	110.411	96702795	
3	ARS-BFGL-NGS-69405	110.4121	96729115	
3	Hapmap58527-rs29018282	110.4131	96751550	
3	Hapmap44120-BTA-68892	110.4148	96790306	
3	BTB-00146590	110.4167	96834559	
3	Hapmap52129-rs29016142	110.4188	96882682	
3	BTB-01675651	110.4209	96931770	
3	BTA-28541-no-rs	110.4219	96955478	
3	ARS-BFGL-NGS-1871	110.4229	96977712	
3	Hapmap59127-rs29023698	110.4253	97032218	
3	BTA-35586-no-rs	110.4269	97069254	
3	BTB-00033773	110.4296	97132442	

3	ARS-BFGL-NGS-113164	110.4335	97221503	
3	ARS-BFGL-NGS-19108	110.4346	97247352	
3	BTB-00147645	110.4364	97288935	
3	BTA-68922-no-rs	110.4385	97337125	
3	BTB-00147684	110.44	97371453	
3	Hapmap58697-rs29019997	110.4409	97392374	
3	BTB-00147757	110.4422	97420954	
3	ARS-BFGL-NGS-114466	110.444	97462890	
3	ARS-BFGL-NGS-67035	110.4471	97533858	
3	BTB-00147847	110.4482	97560648	
3	ARS-BFGL-NGS-63629	110.4492	97583318	
3	BTB-00147905	110.4547	97609382	
3	BTA-26108-no-rs	110.4699	97635380	
3	BTB-01919893	110.4827	97657233	
3	BTA-68980-no-rs	110.5263	97731656	
3	BTA-68991-no-rs	110.5439	97761756	
3	BTA-68995-no-rs	110.5623	97793166	
3	Hapmap54904-rs29018615	110.5956	97850166	
3	ARS-BFGL-NGS-64998	110.6154	97883928	
3	Hapmap48440-BTA-68997	110.6383	97923006	
3	ARS-BFGL-NGS-113457	110.6691	97975773	
3	ARS-BFGL-NGS-112757	110.6963	98022221	
3	ARS-BFGL-NGS-102345	110.7335	98085843	
3	ARS-BFGL-NGS-30298	110.7555	98123394	
3	BTB-00151386	110.7707	98149358	
3	Hapmap52910-rs29011444	110.7883	98179410	
3	ARS-USMARC-Parent-DQ489377-rs29026932	110.7936	98188384	
3	ARS-BFGL-NGS-110549	110.8002	98199726	
3	UA-IFASA-3979	110.8135	98222548	
3	BTB-00151766	110.8629	98306933	
3	BTB-00151846	110.8763	98329782	
3	Hapmap47700-BTA-69019	110.9003	98370825	
3	BTB-00152030	110.9245	98412071	
3	Hapmap50068-BTA-69023	110.9472	98450919	
3	ARS-BFGL-NGS-101007	110.9661	98483178	
3	Hapmap49273-BTA-69030	110.9886	98521644	
3	ARS-BFGL-NGS-98870	111.0271	98587436	
3	ARS-BFGL-NGS-110586	111.1004	98712726	
3	BTA-102722-no-rs	111.1194	98745196	
3	ARS-BFGL-NGS-113053	111.1367	98774663	
3	ARS-BFGL-NGS-63710	111.1501	98797599	
3	ARS-BFGL-NGS-105312	111.1629	98819518	
3	Hapmap26515-BTA-68968	111.183	98853891	
3	BTB-00150213	111.2037	98889151	
3	ARS-BFGL-NGS-40397	111.2272	98929403	
3	BTB-00150138	111.2408	98952564	
3	ARS-BFGL-NGS-25489	111.2562	98978974	
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3	ARS-BFGL-NGS-5068	111.2894	99035709	
3	BTB-01621981	111.3335	99111024	
3	ARS-BFGL-NGS-102201	111.3563	99150033	
3	BTB-00962989	111.3786	99188015	
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3	ARS-BFGL-NGS-99618	111.4104	99242465	
3	Hapmap39765-BTA-62582	111.4541	99317016	
3	Hapmap48025-BTA-62581	111.4954	99387696	
3	Hapmap58086-rs29011003	111.5242	99436894	
3	BTB-00962887	111.5395	99463049	
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3	BTA-62573-no-rs	111.6306	99618678	
3	ARS-BFGL-NGS-115184	111.6457	99644517	
3	BTB-00962714	111.6521	99655499	
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3	Hapmap25318-BTA-155818	111.82	100009142	
3	ARS-BFGL-NGS-100867	111.82	100031161	
3	ARS-BFGL-NGS-88686	111.82	100068719	
3	Hapmap32626-BTA-155816	111.82	100126720	
3	ARS-BFGL-NGS-116359	111.82	100184301	
3	ARS-BFGL-NGS-81928	111.82	100207423	
3	Hapmap44755-BTA-110608	111.82	100228712	
3	ARS-BFGL-NGS-108152	111.82	100248366	
3	ARS-BFGL-NGS-36272	111.82	100323316	
3	ARS-BFGL-NGS-40683	111.82	100402643	
3	ARS-BFGL-NGS-16203	111.82	100442675	
3	Hapmap36001-SCAFFOLD50270_3726	111.82		100468099
3	ARS-BFGL-NGS-91400	111.82	100493684	
3	Hapmap31545-BTA-68938	111.82	100533447	
3	BTB-01852630	111.82	100563383	
3	BTA-20822-no-rs	111.82	100584312	
3	BTA-69039-no-rs	111.82	100635895	
3	Hapmap40790-BTA-69035	111.82	100683723	
3	BTB-01461710	111.82	100708781	
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3	BTB-01461865	111.82	100789700	
3	BTB-01461869	111.82	100811809	
3	ARS-BFGL-NGS-109837	111.82	100901542	
3	BTB-01461921	111.82	100936726	
3	BTB-01551546	111.82	100982336	
3	BTB-01874931	111.82	101138019	
3	Hapmap50443-BTA-69040	111.82	101165189	
3	BTA-69044-no-rs	111.82	101253585	
3	Hapmap48051-BTA-69046	111.82	101280610	
3	UA-IFASA-7459	111.82	101319929	
3	Hapmap50757-BTA-69058	111.82	101353522	
3	ARS-BFGL-NGS-62743	111.82	101377479	
3	Hapmap57408-rs29021851	111.8394	101636723	
3	Hapmap40575-BTA-68961	111.8643	101669577	
3	Hapmap48439-BTA-68959	111.8978	101713668	
3	BTB-00149135	111.9153	101736746	
3	ARS-BFGL-NGS-3713	111.9526	101785952	
3	ARS-BFGL-NGS-44013	111.9885	101833259	
3	BTB-00148969	112.0048	101854732	
3	BTA-120086-no-rs	112.0233	101879077	
3	ARS-BFGL-NGS-5703	112.0502	101914613	
3	BTB-00152595	112.0716	101942771	
3	BTA-69065-no-rs	112.1114	101995252	
3	ARS-BFGL-NGS-31154	112.1352	102026561	
3	ARS-BFGL-NGS-117992	112.158	102056606	
3	ARS-BFGL-NGS-25027	112.2032	102116186	
3	ARS-BFGL-NGS-8915	112.238	102162018	
3	ARS-BFGL-NGS-2973	112.3381	102289610	
3	ARS-BFGL-NGS-104136	112.389	102352899	
3	BTA-28274-no-rs	112.4444	102421833	
3	ARS-BFGL-NGS-105245	112.5184	102513835	
3	ARS-BFGL-NGS-32606	112.6121	102630338	

3	ARS-BFGL-NGS-67676	112.6295	102651971	
3	ARS-BFGL-NGS-57574	112.7049	102745604	
3	BTB-00153367	112.7292	102775859	
3	ARS-BFGL-NGS-102829	112.7569	102810330	
3	Hapmap51484-BTA-69114	112.7883	102849379	
3	Hapmap38340-BTA-69123	112.8644	102943977	
3	ARS-BFGL-NGS-102138	112.9267	103021431	
3	ARS-BFGL-NGS-94424	112.9443	103043290	
3	ARS-BFGL-NGS-80197	112.993	103103844	
3	ARS-BFGL-NGS-20122	113.06	103214562	
3	ARS-BFGL-NGS-38370	113.06	103238207	
3	ARS-BFGL-NGS-118597	113.06	103268281	
3	ARS-BFGL-NGS-25854	113.06	103290903	
3	Hapmap48854-BTA-69129	113.1084	103358134	
3	Hapmap49274-BTA-69134	113.2209	103411214	
3	BTA-69143-no-rs	113.3007	103448870	
3	BTA-90843-no-rs	113.3437	103469177	
3	ARS-BFGL-NGS-30263	113.38	103650423	
3	ARS-BFGL-NGS-70773	113.407	103700822	
3	ARS-BFGL-NGS-29420	113.4243	103728246	
3	ARS-BFGL-NGS-13927	113.4698	103800305	
3	Hapmap34299-BES7_Contig426_708		113.5559	103936692
3	Hapmap31146-BTA-151624	113.587	103985945	
3	BTA-98478-no-rs	113.6032	104011692	
3	ARS-BFGL-NGS-35125	113.6549	104093652	
3	Hapmap54172-rs29027626	113.6992	104163830	
3	Hapmap48279-BTA-29512	113.7155	104189623	
3	BTA-88328-no-rs	113.7216	104199279	
3	ARS-BFGL-NGS-107015	113.7533	104249570	
3	INRA-346	113.7924	104311603	
3	Hapmap48983-BTA-100103	113.8305	104371879	
3	Hapmap50204-BTA-107668	113.9378	104541905	
3	BTB-00189157	114.0316	104690569	
3	Hapmap48864-BTA-70759	114.0482	104716951	
3	BTB-01781132	114.07	104751439	
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3	ARS-BFGL-NGS-116751	114.1325	104850567	
3	ARS-BFGL-NGS-118243	114.17	104909909	
3	ARS-BFGL-NGS-55043	114.183	104930456	
3	ARS-BFGL-NGS-1038	114.2086	104971166	
3	ARS-BFGL-NGS-115055	114.2264	104999360	
3	BTB-00154062	114.2398	105020596	
3	ARS-BFGL-NGS-119590	114.254	105043063	
3	BTB-00154000	114.2675	105064402	
3	ARS-BFGL-NGS-110816	114.2843	105090990	
3	ARS-BFGL-NGS-119168	114.3154	105140384	
3	ARS-BFGL-NGS-114028	114.3362	105173273	
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3	ARS-BFGL-NGS-109983	114.3786	105240515	
3	ARS-BFGL-NGS-54531	114.38	105277008	
3	ARS-BFGL-NGS-11573	114.38	105303500	
3	ARS-BFGL-NGS-113303	114.38	105336520	
3	ARS-BFGL-NGS-37152	114.4121	105442628	
3	BTA-69340-no-rs	114.4267	105467351	
3	ARS-BFGL-NGS-52588	114.4505	105507423	
3	ARS-BFGL-NGS-25455	114.4678	105536719	
3	ARS-BFGL-NGS-116561	114.4912	105576161	
3	Hapmap60034-rs29012205	114.5131	105613230	
3	ARS-BFGL-NGS-19484	114.5375	105654383	

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3	Hapmap52612-rs29022803	114.6014	105762348	
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3	ARS-BFGL-NGS-81463	114.6352	105819329	
3	Hapmap51868-BTA-98973	114.6579	105857594	
3	ARS-BFGL-NGS-18305	114.7353	105994898	
3	ARS-BFGL-NGS-110121	114.77	106096905	
3	ARS-BFGL-NGS-111314	114.7945	106168691	
3	Hapmap22746-BTA-141712	114.8171	106235104	
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3	BTB-00148908	114.8427	106293026	
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3	BTB-00148451	114.9811	106510754	
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3	ARS-BFGL-NGS-38199	115.1998	106833383	
3	ARS-BFGL-NGS-40609	115.3518	106963577	
3	UA-IFASA-5880	115.4455	107043933	
3	Hapmap53765-ss46526662	115.5077	107097209	
3	BTA-118429-no-rs	115.571	107151474	
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3	ARS-BFGL-NGS-43577	115.6314	107203195	
3	BTA-69346-no-rs	115.6548	107223273	
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3	BTB-00154673	115.8176	107362756	
3	BTB-00154795	115.8451	107386284	
3	BTB-00154774	115.93	107469621	
3	ARS-BFGL-NGS-14748	115.93	107501420	
3	Hapmap48053-BTA-69359	115.93	107542688	
3	BTB-00154724	115.9412	107599620	
3	BTB-00154716	115.9572	107635333	
3	BTB-00154681	115.999	107698286	
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3	Hapmap40460-BTA-69362	116.1254	107779560	
3	ARS-BFGL-NGS-107219	116.1681	107807020	
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3	BTA-69365-no-rs	116.3281	107909891	
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3	ARS-BFGL-NGS-31442	116.4694	108000672	
3	Hapmap48054-BTA-69366	116.5207	108033653	
3	BTB-00155085	116.552	108053826	
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3	ARS-BFGL-NGS-37288	116.6302	108103203	
3	ARS-BFGL-NGS-34880	116.6771	108129497	
3	Hapmap54695-rs29024848	116.7106	108148228	
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3	ARS-BFGL-NGS-28282	116.9055	108257297	
3	ARS-BFGL-NGS-70647	116.9516	108283132	
3	ARS-BFGL-NGS-30729	117.0029	108311829	
3	Hapmap35089-BES2_Contig293_493		117.0801	108355081
3	ARS-BFGL-NGS-66328	117.1209	108377884	
3	BTA-69413-no-rs	117.1631	108401517	
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3	ARS-BFGL-NGS-17719	117.248	108449043	

3	ARS-BFGL-NGS-112726	117.296	108483066	
3	ARS-BFGL-NGS-116391	117.3217	108528219	
3	ARS-BFGL-NGS-14687	117.3597	108594928	
3	ARS-BFGL-NGS-117810	117.3799	108630391	
3	ARS-BFGL-NGS-3085	117.4053	108675022	
3	ARS-BFGL-NGS-62926	117.4581	108767582	
3	ARS-BFGL-NGS-12226	117.4937	108830101	
3	ARS-BFGL-NGS-60487	117.5151	108867640	
3	ARS-BFGL-NGS-91446	117.5994	109015666	
3	ARS-BFGL-NGS-118037	117.6115	109036828	
3	ARS-BFGL-NGS-87394	117.6845	109111375	
3	ARS-BFGL-NGS-181	117.769	109157709	
3	BTA-69456-no-rs	117.9489	109256429	
3	BTA-69458-no-rs	117.9959	109282190	
3	ARS-BFGL-NGS-39799	118.0355	109303922	
3	ARS-BFGL-NGS-16026	118.1137	109346833	
3	Hapmap42295-BTA-69468	118.1607	109372623	
3	ARS-BFGL-NGS-32541	118.2432	109417883	
3	Hapmap52816-rs29014115	118.3199	109459957	
3	ARS-BFGL-NGS-113490	118.3811	109493541	
3	ARS-BFGL-NGS-66281	118.4214	109515633	
3	ARS-BFGL-NGS-83416	118.4711	109542930	
3	ARS-BFGL-NGS-111293	118.5116	109565152	
3	ARS-BFGL-NGS-114817	118.61	109619527	
3	Hapmap47526-BTA-121607	118.61	109656894	
3	ARS-BFGL-NGS-103191	118.61	109702946	
3	ARS-BFGL-NGS-54892	118.61	109757416	
3	Hapmap34488-BES2_Contig244_1403	118.61	109821597	
3	Hapmap53978-rs29024239	118.61	109858507	
3	ARS-BFGL-NGS-34881	118.61	109979312	
3	ARS-BFGL-NGS-22796	118.61	110014389	
3	ARS-BFGL-NGS-106737	118.617	110043222	
3	ARS-BFGL-NGS-102149	118.648	110078547	
3	Hapmap34322-BES8_Contig446_1023	118.6711	110104792	
3	INRA-329	118.6994	110137012	
3	ARS-BFGL-NGS-41945	118.7485	110192840	
3	BTB-00156159	118.7924	110242807	
3	ARS-BFGL-NGS-105427	118.8185	110272602	
3	BTB-00156248	118.9504	110422692	
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3	ARS-BFGL-NGS-40837	119.1875	110766510	
3	ARS-BFGL-NGS-27177	119.2003	110793254	
3	BTB-00156558	119.2122	110818143	
3	BTB-00156546	119.224	110842832	
3	ARS-BFGL-NGS-3489	119.2523	110902013	
3	BTB-00156662	119.2739	110947263	
3	BTB-00156691	119.2886	110977957	
3	BTB-00390861	119.3	111001826	
3	BTB-00156807	119.3336	111072192	
3	BTA-01438-rs29012403	119.361	111129422	
3	Hapmap58315-ss46527116	119.3727	111153856	
3	BTB-00156916	119.3905	111191101	
3	BTB-00156962	119.4016	111214429	
3	BTB-00157013	119.4141	111240415	
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3	Hapmap57496-ss46526163	119.5051	111430815	
3	ARS-BFGL-NGS-118207	119.5182	111458159	
3	ARS-BFGL-NGS-25919	119.5502	111525119	
3	ARS-BFGL-NGS-13753	119.5853	111598515	

3	BTB-00157181	119.6048	111639312	
3	Hapmap38245-BTA-69529	119.6556	111745557	
3	Hapmap38079-BTA-69532	119.6733	111782696	
3	BTB-00157833	119.702	111842741	
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3	ARS-BFGL-NGS-105069	119.7379	111917767	
3	ARS-BFGL-NGS-32314	119.789	112024623	
3	Hapmap53696-rs29016125	119.8069	112062155	
3	BTA-69557-no-rs	119.8122	112073191	
3	ARS-BFGL-NGS-74948	119.8419	112135228	
3	Hapmap30841-BTA-147966	119.8539	112160436	
3	BTA-69565-no-rs	119.8743	112203165	
3	BTA-69569-no-rs	119.8847	112224915	
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3	Hapmap42062-BTA-109789	119.9291	112317727	
3	BTB-01641394	119.9399	112340357	
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3	ARS-BFGL-NGS-6202	119.9893	112443572	
3	ARS-BFGL-NGS-85333	119.99	112542497	
3	ARS-BFGL-NGS-97849	119.99	112574733	
3	ARS-BFGL-NGS-71345	119.99	112600644	
3	ARS-BFGL-NGS-110683	119.99	112673479	
3	ARS-BFGL-NGS-1158	119.9903	112749121	
3	BTA-87451-no-rs	120.0067	112802295	
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3	ARS-BFGL-NGS-115246	120.0266	112866890	
3	ARS-BFGL-NGS-19581	120.0439	112922761	
3	ARS-BFGL-NGS-55894	120.054	112955526	
3	ARS-BFGL-NGS-65128	120.0792	113037175	
3	BTA-117752-no-rs	120.2782	113271662	
3	ARS-BFGL-NGS-104342	120.3216	113306427	
3	BTB-00159161	120.3812	113354214	
3	ARS-BFGL-NGS-41860	120.444	113404503	
3	Hapmap57254-rs29022776	120.4803	113433557	
3	BTB-00158983	120.5352	113524798	
3	BTA-69614-no-rs	120.5733	113606642	
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3	ARS-BFGL-NGS-1337	120.6012	113666410	
3	BTB-00158861	120.6177	113701688	
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3	ARS-BFGL-NGS-41721	120.6462	113762874	
3	Hapmap56950-ss46526304	120.657	113786118	
3	ARS-BFGL-NGS-43320	120.6846	113845303	
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3	BTB-01626711	120.7244	113930518	
3	Hapmap41420-BTA-108706	120.7276	113937410	
3	BTB-01648149	120.7529	113991679	
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3	ARS-BFGL-NGS-101499	120.8172	114129558	
3	ARS-BFGL-NGS-32060	120.8265	114149464	
3	ARS-BFGL-NGS-43764	120.836	114170005	
3	ARS-BFGL-NGS-22015	120.8462	114191841	
3	BTB-01406305	120.8595	114220425	
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3	ARS-BFGL-NGS-447	120.889	114283698	
3	Hapmap46912-BTA-104565	120.91	114340937	
3	ARS-BFGL-NGS-84593	120.91	114388249	



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3	ARS-BFGL-NGS-17285	120.91	114485022	
3	ARS-BFGL-NGS-106280	120.91	114505164	
3	ARS-BFGL-NGS-65126	120.91	114526324	
3	ARS-BFGL-NGS-62557	120.9397	114583055	
3	ARS-BFGL-NGS-100462	120.9745	114616030	
3	BTA-28412-no-rs	121.0054	114645229	
3	BTB-00157794	121.034	114672300	
3	ARS-BFGL-NGS-59537	121.067	114703617	
3	Hapmap55088-rs29012399	121.095	114730114	
3	ARS-BFGL-NGS-10529	121.1356	114766179	
3	BTB-00160155	121.1725	114797789	
3	ARS-BFGL-NGS-25543	121.1976	114819228	
3	ARS-BFGL-NGS-38564	121.2361	114852225	
3	ARS-BFGL-NGS-108947	121.2606	114873116	
3	BTB-00160067	121.3054	114911444	
3	ARS-BFGL-NGS-2210	121.3394	114940539	
3	BTA-69650-no-rs	121.3652	114962665	
3	ARS-BFGL-NGS-2229	121.404	114995892	
3	ARS-BFGL-NGS-115035	121.4513	115036354	
3	ARS-BFGL-NGS-85967	121.4933	115072265	
3	BTB-00159970	121.518	115093403	
3	BTB-00159950	121.5733	115140743	
3	BTA-69644-no-rs	121.6296	115188884	
3	Hapmap39235-BTA-69641	121.6552	115210793	
3	ARS-BFGL-NGS-43561	121.7609	115301282	
3	ARS-BFGL-NGS-58196	121.841	115369820	
3	BTB-02088155	121.8711	115395556	
3	BTB-01326963	121.9223	115439388	
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3	Hapmap58504-rs29017745	121.9982	115504268	
3	ARS-BFGL-NGS-113768	122.0368	115537299	
3	Hapmap46691-BTA-122744	122.0776	115572233	
3	ARS-BFGL-NGS-29544	122.1455	115630359	
3	Hapmap47380-BTA-69661	122.1793	115659306	
3	ARS-BFGL-NGS-2988	122.2267	115699810	
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3	ARS-BFGL-NGS-119955	122.54	116061795	
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3	ARS-BFGL-NGS-38891	122.54	116193622	
3	ARS-BFGL-NGS-41558	122.54	116233438	
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3	BTB-00160996	122.5484	116304940	
3	ARS-BFGL-NGS-57301	122.55	116378417	
3	ARS-BFGL-NGS-104832	122.55	116406001	
3	ARS-BFGL-NGS-44462	122.55	116425456	
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3	ARS-BFGL-NGS-80276	122.7921	116654687	
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3	ARS-BFGL-NGS-32677	123.1069	116943803
3	ARS-BFGL-NGS-35462	123.134	116968644
3	ARS-BFGL-NGS-26479	123.1574	116990141
3	ARS-BFGL-NGS-95951	123.1936	117023378
3	ARS-BFGL-NGS-34496	123.2349	117061271
3	ARS-BFGL-NGS-8837	123.2623	117086409
3	Hapmap52099-rs29024307	123.2948	117116249
3	ARS-BFGL-NGS-7438	123.3377	117155645
3	ARS-BFGL-NGS-105543	123.4218	117232908
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3	ARS-BFGL-NGS-69961	123.6729	117463394
3	ARS-BFGL-NGS-116445	123.7152	117502262
3	ARS-BFGL-NGS-91769	123.7479	117532269
3	BTB-00163323	123.7753	117557450
3	ARS-BFGL-NGS-102745	123.795	117575562
3	ARS-BFGL-NGS-7410	123.8295	117607230
3	BTB-00163570	123.8785	117652189
3	ARS-BFGL-NGS-27579	123.9875	117712313
3	BTA-69789-no-rs	124.0924	117760734
3	BTA-69790-no-rs	124.1321	117779073
3	Hapmap48056-BTA-69793	124.2054	117812890
3	ARS-BFGL-NGS-60556	124.2513	117834069
3	ARS-BFGL-NGS-37142	124.3465	117878022
3	ARS-BFGL-NGS-10379	124.5249	117960375
3	ARS-BFGL-NGS-26624	124.58	117985787
3	ARS-BFGL-NGS-111207	124.6466	118016542
3	ARS-BFGL-NGS-101315	124.6921	118037523
3	ARS-BFGL-NGS-75987	124.7432	118061120
3	ARS-BFGL-NGS-90439	124.8247	118098722
3	ARS-BFGL-NGS-35269	124.8795	118124014
3	BTB-00163972	124.9254	118145216
3	Hapmap46717-BTA-69803	124.9727	118167062
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3	ARS-BFGL-NGS-19387	125.3069	118321289
3	ARS-BFGL-NGS-105174	125.3605	118346051
3	ARS-BFGL-NGS-72055	125.4721	118397556
3	ARS-BFGL-NGS-30038	125.7351	118518956
3	ARS-BFGL-NGS-98739	125.8393	118567045
3	BTA-69827-no-rs	125.894	118592298
3	ARS-BFGL-NGS-1743	125.9968	118639758
3	ARS-BFGL-NGS-116145	126.066	118671665
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3	ARS-BFGL-NGS-57851	126.07	119550145
3	ARS-BFGL-NGS-39920	126.07	119584154
3	UA-IFASA-2146	126.07	119620251
3	ARS-BFGL-NGS-10050	126.1326	119686073

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3	ARS-BFGL-NGS-111770	126.308	119812392
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3	ARS-BFGL-NGS-93112	126.5962	120170034
3	ARS-BFGL-NGS-22190	126.606	120191150
3	ARS-BFGL-NGS-35805	126.6197	120220712
3	BTB-01730472	126.6488	120283544
3	ARS-BFGL-NGS-36015	126.6683	120325736
3	ARS-BFGL-NGS-76298	126.7244	120446774
3	ARS-BFGL-NGS-223	126.7497	120501439
3	ARS-BFGL-NGS-103152	126.7711	120547501
3	BTB-00161805	126.7832	120573628
3	Hapmap52849-rs29021928	126.8061	120622998
3	ARS-BFGL-NGS-110914	126.837	120689753
3	ARS-BFGL-NGS-92456	126.859	120737342
3	ARS-BFGL-NGS-104799	126.8755	120772981
3	ARS-BFGL-NGS-1034	126.8849	120793177
3	ARS-BFGL-NGS-115266	126.9161	120860510
3	BTB-00161751	126.9303	120891162
3	BTB-01784003	126.98	121025205
3	ARS-BFGL-NGS-6917	126.98	121087285
3	ARS-BFGL-NGS-57543	126.98	121098536
3	ARS-BFGL-NGS-109754	126.98	121128372
3	ARS-BFGL-NGS-2087	126.98	121143331
3	ARS-BFGL-NGS-108682	126.98	121179950
3	ARS-BFGL-NGS-68307	126.98	121203750
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3	Hapmap47115-BTA-84071	126.98	121403393
4	ARS-BFGL-NGS-115803	0	17112
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4	ARS-BFGL-NGS-102812	0.4558519	360794
4	Hapmap52120-rs29014886	0.731909	565142
4	Hapmap55620-rs29024432	0.8213099	631320
4	ARS-BFGL-NGS-84351	0.9962345	770565
4	ARS-BFGL-NGS-18108	1.116258	870437
4	BTB-00281544	1.263894	993285
4	Hapmap44528-BTA-17816	1.729683	1343568
4	ARS-BFGL-NGS-40647	1.775683	1376938
4	ARS-BFGL-NGS-102687	1.827764	1414719
4	ARS-BFGL-NGS-42949	1.8561	1435275
4	Hapmap51526-BTA-96769	1.912913	1476489
4	ARS-BFGL-NGS-22697	1.975606	1521968
4	BTA-90535-no-rs	2.422201	1845942
4	BTA-90533-no-rs	2.48045	1888198
4	ARS-BFGL-NGS-114514	2.557923	1944399
4	Hapmap49842-BTA-105986	2.669285	2025185
4	Hapmap46397-BTA-105989	2.732081	2070739
4	Hapmap40886-BTA-111629	2.817097	2132412
4	ARS-BFGL-NGS-108486	2.964361	2239242
4	ARS-BFGL-NGS-949	3.151957	2375330
4	Hapmap42088-BTA-118523	3.351714	2520240
4	Hapmap45542-BTA-118525	3.390813	2548604

4	BTA-118538-no-rs	3.418469	2568666	
4	ARS-BFGL-NGS-8807	3.567372	2676685	
4	ARS-BFGL-NGS-10160	3.761347	2817401	
4	Hapmap33179-BTA-118558	3.908037	2923814	
4	Hapmap39541-BTA-118502	4.315835	3219644	
4	ARS-BFGL-NGS-57926	4.42	3344403	
4	ARS-BFGL-NGS-71592	5.422023	3516845	
4	ARS-BFGL-NGS-24888	5.8213	3583133	
4	ARS-BFGL-NGS-117422	6.324131	3755210	
4	BTA-91693-no-rs	6.443717	3839615	
4	Hapmap23596-BTA-149292	6.495311	3876031	
4	BTA-29384-no-rs	6.550436	3914939	
4	ARS-BFGL-NGS-115291	6.799631	4090824	
4	Hapmap52491-rs29011086	6.867224	4138532	
4	Hapmap38139-BTA-116454	6.935277	4186564	
4	ARS-BFGL-NGS-100374	7.036822	4258236	
4	ARS-BFGL-NGS-81557	7.070964	4282334	
4	UA-IFASA-6828	7.099495	4302472	
4	ARS-BFGL-NGS-113798	7.153108	4340312	
4	ARS-BFGL-NGS-6621	7.278019	4508164	
4	Hapmap38452-BTA-98747	7.316851	4564219	
4	ARS-BFGL-NGS-104060	7.337459	4593967	
4	BTA-98753-no-rs	7.373055	4645352	
4	ARS-BFGL-NGS-19875	7.410351	4699190	
4	ARS-BFGL-NGS-57716	7.430603	4728423	
4	ARS-BFGL-NGS-17279	7.457777	4767650	
4	ARS-BFGL-NGS-75685	7.508348	4840652	
4	ARS-BFGL-NGS-118723	7.571197	4931375	
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4	ARS-BFGL-NGS-41865	7.72275	4988616	
4	ARS-BFGL-NGS-91047	7.863688	5032584	
4	ARS-BFGL-NGS-112260	7.957096	5061724	
4	ARS-BFGL-NGS-60734	8.050728	5090934	
4	Hapmap27594-BTA-141889	8.174299	5129484	
4	ARS-BFGL-NGS-36821	8.469694	5221637	
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4	ARS-BFGL-NGS-35702	8.689529	5290218	
4	ARS-BFGL-NGS-23776	8.762525	5312990	
4	ARS-BFGL-NGS-96185	8.84981	5340220	
4	ARS-BFGL-NGS-13280	9.045012	5401116	
4	ARS-BFGL-NGS-5701	9.118945	5424181	
4	ARS-BFGL-NGS-55059	9.246389	5463939	
4	Hapmap40914-BTA-122270	9.432836	5522104	
4	Hapmap34855-BES3_Contig373_1182		9.519938	5549277
4	Hapmap54675-rs29016879	10.04404	5712778	
4	ARS-BFGL-NGS-20734	11.1226	6049251	
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4	ARS-BFGL-NGS-66869	12.04613	6337362	
4	ARS-BFGL-NGS-82018	12.46	6470892	
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4	BTA-104999-no-rs	13.279	6696030	
4	BTB-01574552	13.44406	6728367	
4	ARS-BFGL-NGS-46206	13.79784	6797677	
4	BTB-00165156	14.02376	6842949	
4	BTB-00165088	14.1327	6866807	
4	ARS-BFGL-NGS-89749	14.29433	6902207	
4	ARS-BFGL-NGS-82239	14.41263	6928118	
4	ARS-BFGL-NGS-103761	14.59832	6968786	
4	BTA-13505-rs29018464	14.70883	6992991	

4	ARS-BFGL-NGS-118155	14.86882	7025908
4	BTB-01966650	15.00374	7051825
4	BTB-01511967	15.16882	7083533
4	ARS-BFGL-NGS-6424	15.34112	7116629
4	BTB-01580567	15.70732	7186971
4	BTB-02078736	15.84062	7212576
4	BTB-01580681	16.21826	7285114
4	ARS-BFGL-NGS-57919	16.36622	7313536
4	BTB-00685072	16.49551	7338370
4	ARS-BFGL-NGS-71657	16.64348	7366793
4	Hapmap29841-BTA-150778	17.19788	7473284
4	ARS-BFGL-NGS-34749	17.38356	7508951
4	ARS-BFGL-NGS-79631	17.49771	7530876
4	ARS-BFGL-NGS-88802	17.68729	7567292
4	ARS-BFGL-NGS-48368	17.82904	7594520
4	Hapmap49928-BTA-24568	17.98561	7624594
4	ARS-BFGL-NGS-106704	18.28208	7681542
4	BTB-01951988	18.42174	7708368
4	BTB-01952103	18.56589	7736057
4	ARS-BFGL-NGS-109936	19.0222	7823707
4	ARS-BFGL-NGS-61702	19.26769	7870863
4	Hapmap49078-BTA-19830	19.46392	7908555
4	ARS-BFGL-NGS-114611	19.64182	7942727
4	BTA-19844-no-rs	19.76944	7967241
4	Hapmap38808-BTA-110530	20.19461	8048909
4	BTB-01643687	20.98613	8200949
4	ARS-BFGL-NGS-31713	21.25003	8251640
4	Hapmap55363-rs29026788	21.32991	8311870
4	BTA-117204-no-rs	21.35696	8347493
4	ARS-BFGL-NGS-34128	21.39946	8403456
4	BTB-01244791	21.46916	8495236
4	Hapmap49472-BTA-117185	21.4868	8518458
4	ARS-BFGL-NGS-93391	21.56795	8625321
4	ARS-BFGL-NGS-10858	21.59834	8665331
4	BTA-117194-no-rs	21.63854	8718266
4	ARS-BFGL-NGS-110061	21.6854	8779979
4	BTB-02022097	21.72017	8825757
4	ARS-BFGL-NGS-70391	21.80953	8943433
4	BTB-01652367	21.84579	8991180
4	ARS-BFGL-NGS-106409	21.88953	9048776
4	Hapmap52665-rs29012059	21.92957	9101496
4	Hapmap39581-BTA-70101	22.00694	9203380
4	BTB-00165658	22.04161	9249035
4	ARS-BFGL-NGS-10539	22.09875	9324270
4	BTB-00165398	22.15977	9404614
4	BTB-01476402	22.21029	9471143
4	BTB-01476421	22.24227	9513258
4	BTB-00165541	22.27413	9555206
4	ARS-BFGL-NGS-109843	22.32023	9615916
4	BTB-00165617	22.36235	9671376
4	ARS-BFGL-NGS-79026	22.38613	9702686
4	ARS-BFGL-NGS-27931	22.40424	9726535
4	ARS-BFGL-NGS-112143	22.42109	9748719
4	ARS-BFGL-NGS-26731	22.46158	9802046
4	ARS-BFGL-NGS-112129	22.48846	9837443
4	ARS-BFGL-NGS-74533	22.5115	9867778
4	Hapmap47436-BTA-88975	22.56212	9934426
4	ARS-BFGL-NGS-78920	22.58805	9968578
4	BTA-00702-no-rs	22.61252	10000800

4	Hapmap26701-BTA-148307	22.63928	10036040	
4	Hapmap35652-SCAFFOLD151622_1051	22.72457	10148342	
4	BTA-02892-no-rs	22.74257	10172043	
4	ARS-BFGL-NGS-64636	22.82574	10235907	
4	BTA-109138-no-rs	22.90565	10261371	
4	BTA-109124-no-rs	23.06841	10324170	
4	Hapmap47828-BTA-109121	23.18	10528978	
4	BTB-01200056	23.18	10608965	
4	BTB-01831345	23.18	10648384	
4	ARS-BFGL-NGS-68586	23.30756	10689062	
4	BTB-00166030	23.4269	10715105	
4	Hapmap39425-BTA-70290	23.53033	10737673	
4	BTB-01695573	23.78976	10794285	
4	ARS-BFGL-NGS-60306	24.00434	10841109	
4	ARS-BFGL-NGS-102120	24.20083	10883984	
4	BTB-01891488	24.31828	10909614	
4	Hapmap53031-rs29011318	24.42738	10933419	
4	BTB-01841922	24.58183	10967124	
4	BTB-01873064	24.70675	10994381	
4	BTA-104863-no-rs	24.83492	11022349	
4	ARS-BFGL-NGS-39533	25.18178	11098039	
4	Hapmap53581-rs29012683	25.2735	11118054	
4	ARS-BFGL-NGS-74263	25.35979	11176127	
4	ARS-BFGL-NGS-118059	25.37752	11215149	
4	Hapmap41216-BTA-27440	25.39148	11245877	
4	Hapmap36194-SCAFFOLD221336_1415	25.40842	11283149	
4	Hapmap41577-BTA-54943	25.43135	11333624	
4	ARS-BFGL-NGS-105052	25.44135	11355642	
4	ARS-BFGL-NGS-44390	25.45518	11386081	
4	BTA-54952-no-rs	25.47967	11439974	
4	BTB-00854994	25.49432	11472235	
4	Hapmap41902-BTA-54954	25.50735	11500911	
4	Hapmap52040-rs29011076	25.51633	11520676	
4	BTB-00166174	25.5346	11560877	
4	Hapmap52420-rs29024866	25.56259	11622493	
4	ARS-BFGL-NGS-6349	25.57507	11649948	
4	BTA-70039-no-rs	25.61746	11743261	
4	BTA-88792-no-rs	25.64842	11811405	
4	ARS-BFGL-NGS-31916	25.66154	11840270	
4	BTA-70340-no-rs	25.67986	11880596	
4	Hapmap49924-BTA-24223	25.71077	11948629	
4	BTA-70386-no-rs	25.73335	11998326	
4	ARS-BFGL-NGS-48662	25.76542	12068919	
4	ARS-BFGL-NGS-78129	25.79985	12144709	
4	BTA-70495-no-rs	25.83739	12227322	
4	ARS-BFGL-NGS-12804	25.89709	12342333	
4	ARS-BFGL-NGS-48351	26.04572	12526900	
4	ARS-BFGL-NGS-94150	26.07312	12560933	
4	ARS-BFGL-NGS-16643	26.09442	12587383	
4	Hapmap31185-BTA-159806	26.14826	12654239	
4	Hapmap61153-rs29019276	26.16812	12678906	
4	Hapmap43433-BTA-100837	26.21189	12733255	
4	ARS-BFGL-NGS-33824	26.23378	12760440	
4	Hapmap34780-BES10_Contig790_1642	26.25908	12791861	
4	BTA-123019-no-rs	26.3209	12868626	
4	ARS-BFGL-NGS-68531	26.47658	13061952	
4	Hapmap50844-BTA-100855	26.49581	13085827	
4	ARS-BFGL-NGS-15904	26.54603	13148484	
4	Hapmap40647-BTA-110965	26.61331	13235237	

4	ARS-BFGL-NGS-100502	26.67649	13316709		
4	ARS-BFGL-NGS-60358	26.73745	13384707		
4	ARS-BFGL-NGS-9719	26.7929	13418972		
4	ARS-BFGL-NGS-116638	26.86276	13462136		
4	ARS-BFGL-NGS-63842	26.95609	13519803		
4	Hapmap38652-BTA-111852	27.00721	13551388		
4	ARS-BFGL-NGS-108871	27.0493	13577398		
4	Hapmap58672-rs29015213	27.51222	13863435		
4	Hapmap43542-BTA-27796	27.57716	13903560		
4	ARS-BFGL-NGS-89632	27.68174	13968183		
4	Hapmap59633-rs29013953	27.76757	14021218		
4	Hapmap45207-BTA-71975	27.90251	14104597		
4	ARS-BFGL-NGS-74427	27.99672	14162806		
4	BTA-70786-no-rs	28.13286	14246928		
4	ARS-BFGL-NGS-113152	28.1725	14271420		
4	ARS-BFGL-NGS-117720	28.29964	14349978		
4	BTA-77279-no-rs	28.64865	14565634		
4	BTA-77280-no-rs	28.69582	14594779		
4	BTA-105634-no-rs	28.83117	14678414		
4	ARS-BFGL-NGS-76578	28.97586	14767817		
4	Hapmap43169-BTA-119396	29.04021	14807579		
4	BTA-12681-no-rs	29.17286	14889540		
4	Hapmap39584-BTA-71323	29.3991	15029333		
4	Hapmap50265-BTA-13206	29.52685	15110552		
4	ARS-BFGL-NGS-15769	29.60368	15160644		
4	Hapmap55272-rs29026835	29.67657	15208171		
4	ARS-BFGL-NGS-119147	29.7853	15279059		
4	Hapmap31111-BTA-141921	29.88081	15341331		
4	ARS-BFGL-NGS-7237	29.93556	15377028		
4	ARS-BFGL-NGS-35546	30.07508	15468000		
4	BTA-70966-no-rs	30.14597	15514217		
4	ARS-BFGL-NGS-116209	30.1813	15537254		
4	Hapmap44709-BTA-70915	30.23995	15575489		
4	BTA-70896-no-rs	30.27944	15601237		
4	ARS-BFGL-NGS-89237	30.34674	15645122		
4	ARS-BFGL-NGS-38976	30.50659	15749339		
4	BTA-85383-no-rs	30.56984	15790583		
4	BTA-85377-no-rs	30.6464	15840497		
4	ARS-BFGL-NGS-37517	30.81002	15947178		
4	Hapmap33770-BTA-104911	30.9082	16011192		
4	BTA-104909-no-rs	30.97844	16056989		
4	Hapmap40099-BTA-104903	30.99826	16117236		
4	BTA-104895-no-rs	31.13623	16174334		
4	ARS-BFGL-NGS-84310	31.32973	16244555		
4	ARS-BFGL-NGS-107551	31.62958	16356283		
4	Hapmap38872-BTA-104883	31.73077	16393988		
4	UA-IFASA-6068	31.82461	16428953		
4	Hapmap48049-BTA-68465	32.30679	16608619		
4	BTB-01980891	32.3904	16639773		
4	BTA-109990-no-rs	32.48449	16674831		
4	Hapmap60624-rs29010248	32.5914	16714670		
4	ARS-BFGL-NGS-40975	32.6813	16748166		
4	BTA-111286-no-rs	32.82182	16800525		
4	Hapmap51512-BTA-88181	33.0872	16899410		
4	BTA-85374-no-rs	33.21397	16946642		
4	Hapmap60832-rs29020531	33.334	16991369		
4	Hapmap61065-rs29026870	33.65234	17109984		
4	BTA-57136-no-rs	33.81033	17168852		
4	ARS-USMARC-Parent-DQ647186-rs29014143	33.89551	17200594		

4	Hapmap58054-rs29014143	33.89551	17200594		
4	ARS-BFGL-NGS-20771	34.12163	17284846		
4	Hapmap51610-BTA-57120	34.22557	17323577		
4	ARS-BFGL-NGS-52712	34.31888	17358346		
4	ARS-BFGL-NGS-14103	34.34535	17389083		
4	ARS-BFGL-NGS-117256	34.39933	17482624		
4	BTA-85407-no-rs	34.41864	17516087		
4	Hapmap38534-BTA-85405	34.44185	17556319		
4	ARS-BFGL-NGS-31254	34.46619	17598500		
4	Hapmap50489-BTA-85396	34.52573	17701677		
4	ARS-BFGL-NGS-56542	34.58673	17807404		
4	Hapmap40227-BTA-85393	34.64185	17902915		
4	UA-IFASA-7278	34.68543	17978432		
4	BTA-85395-no-rs	34.71484	18029408		
4	Hapmap51543-BTA-108077	34.76335	18113477		
4	ARS-BFGL-NGS-78286	34.79782	18173214		
4	Hapmap48706-BTA-28292	34.81035	18194926		
4	ARS-BFGL-NGS-102518	34.87967	18315058		
4	BTB-00166627	34.97	18463696		
4	Hapmap51036-BTA-71487	34.97	18491563		
4	ARS-BFGL-NGS-86175	34.97	18539967		
4	ARS-BFGL-NGS-110781	34.97	18623087		
4	BTA-71542-no-rs	34.97	18643309		
4	Hapmap57609-rs29021001	34.97	18689580		
4	BTA-71588-no-rs	34.97	18769702		
4	Hapmap31768-BTA-141947	34.97	18926575		
4	BTB-00167173	34.97	18967053		
4	BTB-00167286	34.97	19001805		
4	BTB-01238607	34.97	19047749		
4	BTB-01238546	34.97	19132537		
4	BTB-01238492	34.97	19177096		
4	BTA-29407-no-rs	34.97	19221494		
4	Hapmap47236-BTA-29404	35.01355	19401500		
4	BTB-01108314	35.06041	19510899		
4	ARS-BFGL-NGS-69823	35.0892	19578095		
4	ARS-BFGL-NGS-108298	35.18563	19715038		
4	Hapmap59250-rs29020746	35.31716	19813614		
4	Hapmap51522-BTA-93536	35.3732	19855620		
4	ARS-BFGL-NGS-110874	35.43163	19899410		
4	BTA-93538-no-rs	35.50867	19957153		
4	ARS-BFGL-NGS-25363	35.57201	20004627		
4	BTB-00224778	35.6032	20028003		
4	BTA-72096-no-rs	35.64393	20058534		
4	BTA-72059-no-rs	35.70335	20103064		
4	BTB-00167579	35.74784	20136412		
4	UA-IFASA-5600	35.78749	20166130		
4	ARS-USMARC-Parent-AY842475-rs29002127	35.80833	20181749		
4	BTB-00167503	35.83728	20203447		
4	Hapmap50078-BTA-71995	35.87225	20229655		
4	ARS-BFGL-NGS-60801	35.91463	20261426		
4	BTB-00167820	35.9467	20285461		
4	Hapmap26962-BTA-141949	36.01294	20335110		
4	Hapmap39092-BTA-72158	36.04506	20359184		
4	BTB-00168235	36.09399	20395856		
4	BTB-00168310	36.13306	20425136		
4	BTA-72259-no-rs	36.24663	20510260		
4	Hapmap61033-rs29022501	36.31138	20558788		
4	ARS-BFGL-NGS-111862	36.36066	20595729		
4	BTA-72397-no-rs	36.42	20640203		



4	ARS-BFGL-NGS-117041	36.45131	20663663
4	BTB-00168676	36.48281	20687277
4	ARS-BFGL-NGS-40177	36.58876	20756074
4	BTB-00168895	36.64608	20788689
4	BTA-72487-no-rs	36.6865	20811685
4	BTA-00676-rs29013829	36.76	20854629
4	BTB-01108661	37.05299	21028253
4	BTB-01108729	37.12949	21063597
4	ARS-BFGL-NGS-79920	37.16629	21097164
4	BTB-01108785	37.17328	21118823
4	BTB-01672879	37.18661	21160109
4	BTA-38554-no-rs	37.2153	21248954
4	BTA-38557-no-rs	37.2241	21276210
4	BTA-93539-no-rs	37.25589	21374651
4	BTB-01054325	37.26833	21413167
4	BTB-01054355	37.28109	21452706
4	BTB-01054403	37.31805	21516258
4	ARS-BFGL-NGS-84478	37.36346	21574492
4	BTB-01054433	37.39156	21610533
4	ARS-BFGL-NGS-20631	37.42266	21650408
4	ARS-BFGL-NGS-63022	37.58189	21854602
4	BTB-01054584	37.64637	21937293
4	BTB-01054610	37.67486	21973829
4	Hapmap28140-BTA-159872	37.71618	22026811
4	Hapmap33790-BTA-159878	37.73761	22054301
4	Hapmap27025-BTA-159880	37.76822	22093546
4	BTA-17400-no-rs	37.8358	22180214
4	ARS-BFGL-NGS-38914	37.87291	22227807
4	BTB-01054838	37.90859	22273559
4	BTB-01054853	37.92583	22295664
4	BTB-01054876	37.94807	22324195
4	BTB-00169017	38.08889	22504775
4	ARS-BFGL-NGS-59734	38.09	22549817
4	ARS-BFGL-NGS-33147	38.09	22588568
4	ARS-BFGL-NGS-72285	38.09	22618815
4	BTB-01581703	38.09	22646006
4	BTA-72579-no-rs	38.13816	22706540
4	BTB-01054917	38.19112	22745371
4	ARS-BFGL-NGS-115125	38.28078	22811121
4	BTA-72648-no-rs	38.34202	22856027
4	Hapmap50909-BTA-17901	38.45527	22939067
4	Hapmap33386-BTA-155833	38.69699	23116321
4	ARS-BFGL-NGS-78425	38.74574	23152067
4	Hapmap39036-BTA-72676	38.88941	23257418
4	Hapmap48063-BTA-72675	38.94607	23293692
4	ARS-BFGL-NGS-14018	39.00833	23332220
4	ARS-BFGL-NGS-109697	39.0619	23365373
4	Hapmap50895-BTA-122111	39.29654	23514700
4	Hapmap27013-BTA-158242	39.31969	23543662
4	BTB-00677925	39.38628	23626953
4	BTB-01450068	39.40351	23648508
4	BTB-00169246	39.4317	23683772
4	ARS-BFGL-NGS-116078	39.47916	23743136
4	BTA-40988-no-rs	39.50817	23779426
4	Hapmap61077-rs29023731	39.53113	23808148
4	Hapmap61072-rs29024053	39.64482	23915993
4	BTB-01483102	39.69278	23956551
4	Hapmap24027-BTA-97007	39.72075	23980205
4	ARS-BFGL-NGS-113848	39.74991	24004871

4	Hapmap43740-BTA-05954	39.84753	24087424
4	BTA-72695-no-rs	39.92204	24150445
4	Hapmap60681-rs29013301	39.96163	24183919
4	BTB-00169573	39.99241	24209956
4	BTB-00169592	40.01857	24232071
4	BTB-01914792	40.18102	24361239
4	BTB-01768836	40.55632	24398713
4	BTB-01768855	40.9341	24436431
4	BTB-00169811	41.02068	24445075
4	BTA-72712-no-rs	41.397	24482650
4	Hapmap43716-BTA-87799	41.48463	24528750
4	BTB-01931258	41.5209	24562717
4	BTB-01912042	41.5494	24589403
4	ARS-BFGL-NGS-76763	41.71486	24762575
4	BTA-65897-no-rs	41.7433	24793043
4	Hapmap45129-BTA-72713	41.8902	24932445
4	BTB-00169898	42.08237	25023746
4	BTB-00169916	42.13358	25048072
4	Hapmap46098-BTA-72714	42.18062	25070421
4	Hapmap49725-BTA-72716	42.35923	25155275
4	BTA-72719-no-rs	42.43	25212380
4	ARS-BFGL-NGS-22423	42.50091	25235840
4	ARS-BFGL-NGS-68962	42.68958	25268332
4	ARS-BFGL-NGS-107984	43.11192	25341067
4	BTB-00170116	43.29735	25373005
4	ARS-BFGL-NGS-42454	43.65118	25433941
4	BTA-107059-no-rs	44.17553	25524245
4	BTB-01186470	44.4008	25563039
4	Hapmap50203-BTA-107053	44.75257	25646689
4	ARS-BFGL-NGS-90892	44.8097	25681590
4	ARS-BFGL-NGS-83726	44.87739	25722942
4	BTB-01186320	44.92742	25753506
4	Hapmap49426-BTA-107052	45.10209	25860217
4	BTB-01186204	45.1465	25887348
4	Hapmap50554-BTA-107048	45.1887	25913130
4	BTA-107055-no-rs	45.3146	25990048
4	BTB-01383887	45.44033	26066864
4	BTB-01383912	45.47726	26089425
4	ARS-BFGL-NGS-57582	45.56565	26143428
4	BTB-01890990	45.63647	26186690
4	BTB-01383949	45.68269	26214926
4	Hapmap49350-BTA-86626	45.71833	26236699
4	BTB-01383975	45.76032	26262355
4	BTB-01858633	45.82741	26303344
4	BTB-01507338	45.86936	26328972
4	BTB-01507370	45.94822	26377148
4	BTB-01507411	46.04336	26435273
4	Hapmap59011-rs29027498	46.1336	26490406
4	BTB-00171373	46.17984	26518653
4	BTB-00171304	46.29554	26589342
4	ARS-BFGL-NGS-46509	46.35589	26626208
4	Hapmap44562-BTA-72758	46.41493	26662279
4	ARS-BFGL-NGS-16437	46.51072	26720799
4	Hapmap57101-rs29013539	46.59171	26770285
4	Hapmap43028-BTA-72757	46.63974	26799625
4	Hapmap45628-BTA-72755	46.68636	26828108
4	Hapmap53225-rs29020561	46.76313	26875008
4	BTA-72752-no-rs	46.81715	26908012
4	BTB-00170935	46.89417	26955066

4	Hapmap59743-rs29017061	46.95978	26995149
4	BTB-00170854	46.99911	27019177
4	BTB-00170785	47.07886	27067897
4	BTB-00170600	47.13323	27101116
4	BTB-00170517	47.24318	27168288
4	BTA-72744-no-rs	47.30112	27203687
4	ARS-BFGL-NGS-117044	47.35385	27256320
4	ARS-BFGL-NGS-75741	47.41034	27339204
4	ARS-BFGL-NGS-72533	47.46172	27414604
4	BTB-00170362	47.47705	27437103
4	Hapmap50133-BTA-86017	47.52645	27509584
4	BTB-01114756	47.56139	27560851
4	UA-IFASA-4775	47.59089	27604132
4	Hapmap48233-BTA-16470	47.637	27671799
4	ARS-BFGL-NGS-65240	47.65701	27701161
4	ARS-BFGL-NGS-1024	47.75324	27842356
4	Hapmap58244-rs29017637	47.79634	27905593
4	BTB-01114634	47.81153	27927889
4	BTB-01114585	47.87421	28019857
4	Hapmap44790-BTA-87385	47.90255	28061446
4	BTA-87383-no-rs	47.94055	28117205
4	BTA-23043-no-rs	48.01554	28227229
4	Hapmap48929-BTA-87386	48.0604	28262688
4	BTB-01843574	48.12986	28295212
4	BTB-00171908	48.24776	28350426
4	BTB-00171880	48.3214	28384911
4	UA-IFASA-2130	48.38267	28413603
4	Hapmap39677-BTA-69920	48.46861	28453846
4	ARS-BFGL-NGS-73435	48.72142	28572239
4	BTB-00171649	48.77873	28599075
4	ARS-BFGL-NGS-26477	48.82673	28621554
4	BTB-00171619	48.98858	28697348
4	ARS-BFGL-NGS-112133	49.12555	28761487
4	ARS-BFGL-NGS-30249	49.20817	28800179
4	BTB-01575998	49.30822	28847032
4	BTB-01353572	49.50978	28941423
4	Hapmap31523-BTA-163301	49.63274	29039442
4	ARS-BFGL-NGS-69270	49.75768	29193739
4	ARS-BFGL-NGS-24570	49.9648	29449548
4	BTB-01202801	49.99424	29485912
4	Hapmap51800-BTA-109764	50.02872	29528497
4	ARS-BFGL-NGS-14672	50.08842	29602230
4	BTB-01202987	50.14935	29677476
4	ARS-BFGL-NGS-34851	50.20006	29740103
4	BTB-01839830	50.32753	29897534
4	BTB-00172076	50.35818	29935400
4	BTB-00172016	50.42264	30015003
4	BTB-00171972	50.44207	30038994
4	Hapmap44276-BTA-69937	50.46611	30068687
4	Hapmap54229-rs29017613	50.57323	30200987
4	ARS-BFGL-NGS-48336	50.65991	30308043
4	BTB-01538902	50.72884	30393170
4	BTB-01538878	50.75698	30427937
4	BTB-01538862	50.78132	30457993
4	Hapmap38265-BTA-96973	50.83661	30526269
4	ARS-BFGL-NGS-63028	50.85769	30552306
4	ARS-BFGL-NGS-3588	50.90189	30606899
4	BTB-01482585	50.96766	30688131
4	BTB-00172924	51.00333	30732178

4	ARS-BFGL-NGS-70466	51.03453	30770711
4	ARS-BFGL-NGS-51663	51.05909	30801053
4	BTB-00172843	51.08632	30834682
4	Hapmap25788-BTA-123085	51.13161	30890614
4	ARS-BFGL-NGS-79133	51.36526	31051832
4	ARS-BFGL-NGS-78071	51.4835	31127913
4	BTB-00172204	51.5533	31172819
4	ARS-BFGL-NGS-101969	51.74184	31294140
4	ARS-BFGL-NGS-24358	51.79226	31326578
4	BTB-00172973	52.17604	31573521
4	ARS-BFGL-NGS-106740	52.3762	31702308
4	UA-IFASA-7669	52.4644	31759057
4	BTB-00173094	52.53378	31803700
4	ARS-BFGL-NGS-117872	52.58821	31838723
4	ARS-BFGL-NGS-13954	52.65599	31882336
4	BTB-00173411	52.69186	31905417
4	ARS-BFGL-NGS-105499	52.82077	31988357
4	ARS-BFGL-NGS-15527	52.85956	32013318
4	BTB-00173673	52.92	32117700
4	ARS-BFGL-NGS-18278	52.92	32144930
4	BTA-69986-no-rs	52.92	32205395
4	Hapmap60347-rs29020617	52.92	32398545
4	BTA-96367-no-rs	52.92	32508042
4	BTB-01476057	52.93953	32794426
4	ARS-BFGL-NGS-35937	52.96053	32831585
4	BTB-01437296	53.00927	32917833
4	BTB-00174283	53.0735	33031489
4	BTB-00174783	53.10023	33078797
4	BTB-00174696	53.17004	33202318
4	Hapmap55409-rs29022997	53.18935	33236485
4	BTA-89083-no-rs	53.22182	33293953
4	BTB-00174639	53.24275	33330971
4	ARS-BFGL-NGS-12244	53.26098	33363236
4	BTB-00174592	53.28592	33407366
4	BTB-00174573	53.30775	33445992
4	BTB-00174357	53.33609	33496136
4	BTA-122225-no-rs	53.39471	33599874
4	BTB-01513833	53.39908	33607603
4	BTA-99714-no-rs	53.41343	33632992
4	BTB-01513732	53.42859	33659806
4	Hapmap60901-rs29025219	53.45007	33697821
4	BTB-01306265	53.46903	33731379
4	Hapmap41481-BTA-20794	53.49043	33769233
4	Hapmap49080-BTA-20801	53.51251	33808311
4	BTB-01306593	53.53913	33855422
4	ARS-BFGL-NGS-61221	53.55948	33894437
4	BTA-44996-no-rs	53.58249	33938703
4	Hapmap59001-rs29026882	53.59715	33966904
4	BTA-45006-no-rs	53.60772	33987224
4	Hapmap38318-BTA-45002	53.60791	33987589
4	BTB-00746336	53.62461	34019728
4	BTB-01934112	53.64526	34059453
4	BTB-01144391	53.66869	34104507
4	BTA-97585-no-rs	53.68346	34132924
4	BTB-01793118	53.77547	34309918
4	ARS-BFGL-NGS-30948	53.8418	34437532
4	BTB-01269449	53.8583	34469271
4	BTB-01269715	53.9315	34610081
4	BTB-01269751	53.95069	34646998

4	ARS-BFGL-NGS-11497	53.98158	34706422	
4	BTB-01269835	53.99548	34733147	
4	ARS-BFGL-NGS-116672	54.02729	34794353	
4	BTB-01269980	54.04525	34828892	
4	BTB-00174824	54.05975	34856797	
4	ARS-BFGL-NGS-115810	54.0743	34884786	
4	BTA-122414-no-rs	54.11705	34967013	
4	BTB-00174859	54.17876	35085729	
4	BTB-02009505	54.21	35354923	
4	ARS-BFGL-NGS-31424	54.21	35416336	
4	BTB-01204607	54.21	35447660	
4	BTB-00175065	54.21	35521313	
4	ARS-BFGL-NGS-3000	54.21	35555124	
4	Hapmap46017-BTA-70007	54.21	35580482	
4	BTA-70016-no-rs	54.21	35605434	
4	BTB-00175289	54.21	35631723	
4	ARS-BFGL-NGS-71927	54.21	35661435	
4	Hapmap44123-BTA-70017	54.21	35705474	
4	BTB-00175429	54.21304	35742210	
4	ARS-BFGL-NGS-102878	54.25448	35763942	
4	BTB-01377921	54.459	35871209	
4	ARS-BFGL-NGS-71177	54.51966	35903023	
4	Hapmap59221-rs29014908	54.58992	35939871	
4	BTB-01378225	54.63605	35964068	
4	BTB-01812636	54.68376	35989091	
4	BTB-01812529	54.73435	36015624	
4	BTB-01378315	54.83051	36066056	
4	BTA-102832-no-rs	54.88713	36095751	
4	ARS-BFGL-NGS-86219	54.98757	36148430	
4	Hapmap43100-BTA-92592	55.11716	36216397	
4	ARS-BFGL-NGS-114191	55.17497	36265776	
4	ARS-BFGL-NGS-45761	55.29761	36372630	
4	Hapmap34763-BES8_Contig497_586		55.33874	36408463
4	BTB-01330413	55.40789	36468716	
4	Hapmap33884-BES3_Contig263_765		55.48239	36533621
4	Hapmap24419-BTA-162106	55.51073	36558317	
4	BTB-01330347	55.55545	36597279	
4	BTB-01228397	55.57734	36616352	
4	BTB-01228342	55.62342	36656495	
4	Hapmap34749-BES4_Contig461_1146		55.74435	36761860
4	BTB-01228256	55.79017	36801780	
4	Hapmap44201-BTA-114510	55.83653	36842170	
4	Hapmap42448-BTA-119409	55.89855	36896740	
4	Hapmap54385-rs29020436	55.97277	36966070	
4	Hapmap47073-BTA-66626	56.03192	37021317	
4	BTB-01007607	56.09154	37077005	
4	ARS-BFGL-BAC-6642	56.12583	37109034	
4	BTB-01007462	56.13996	37122228	
4	BTB-01007411	56.16533	37145925	
4	ARS-BFGL-NGS-39071	56.191	37169907	
4	BTA-121623-no-rs	56.29034	37262694	
4	ARS-BFGL-NGS-89253	56.34339	37312244	
4	Hapmap33483-BTA-142021	56.37506	37341832	
4	Hapmap60225-rs29010786	56.42231	37385962	
4	BTB-00175546	56.44747	37409461	
4	BTA-70020-no-rs	56.45	37440961	
4	BTA-70088-no-rs	56.45	37489913	
4	BTB-00177281	56.46706	37523601	
4	Hapmap59278-rs29027495	56.529	37555526	

4	BTB-00177408	56.60689	37595676
4	Hapmap60522-rs29015286	56.67561	37631099
4	Hapmap26138-BTA-142043	56.81818	37704589
4	Hapmap61001-rs29016986	56.87952	37736210
4	BTA-70113-no-rs	57.12233	37877098
4	BTA-70122-no-rs	57.17932	37916175
4	Hapmap44397-BTA-70124	57.24574	37961721
4	Hapmap46157-BTA-70132	57.32439	38015655
4	Hapmap38661-BTA-18849	57.40723	38072465
4	Hapmap51853-BTA-70134	57.50156	38137153
4	ARS-BFGL-NGS-21786	57.54484	38166835
4	BTB-00178002	57.57744	38189188
4	Hapmap38426-BTA-70226	57.61319	38213706
4	BTB-00178249	57.64551	38235868
4	BTB-00178261	57.67743	38257758
4	Hapmap58943-rs29011657	57.73547	38297560
4	BTB-00178304	57.79067	38335417
4	BTA-70238-no-rs	58.01062	38486244
4	BTA-70243-no-rs	58.10188	38548833
4	ARS-BFGL-NGS-119322	58.13736	38573157
4	BTA-70244-no-rs	58.25396	38653121
4	Hapmap33665-BTA-142069	58.29368	38680360
4	Hapmap46435-BTA-70245	58.41408	38762924
4	BTB-00178575	58.4589	38793655
4	UA-IFASA-6877	58.49644	38819398
4	BTB-00178603	58.53021	38842560
4	BTB-00484017	58.62636	38908495
4	BTB-01885061	58.81968	39041063
4	Hapmap24263-BTA-161141	58.93529	39120348
4	ARS-BFGL-NGS-115775	59.06709	39210733
4	BTB-01308664	59.11626	39244447
4	BTB-01308655	59.17257	39283065
4	BTB-01780414	59.39429	39435115
4	BTB-01780264	59.48739	39498957
4	Hapmap43331-BTA-70083	59.55521	39545464
4	Hapmap50762-BTA-70080	59.68552	39634823
4	ARS-BFGL-NGS-41445	59.76044	39686205
4	Hapmap53600-rs29010856	59.8096	39719917
4	Hapmap43454-BTA-108936	59.97536	39848390
4	ARS-BFGL-NGS-113933	60.02741	39889039
4	ARS-BFGL-NGS-5483	60.06647	39919542
4	BTB-01930921	60.15364	39987629
4	ARS-BFGL-NGS-80648	60.26792	40066281
4	ARS-BFGL-NGS-116298	60.41088	40137954
4	BTB-00176602	60.74478	40305345
4	Hapmap50070-BTA-70041	60.85104	40358616
4	Hapmap43212-BTA-23629	61.0111	40438857
4	ARS-BFGL-NGS-113104	61.67086	40703642
4	BTB-00176269	61.78913	40746706
4	BTB-00176227	61.87374	40777514
4	ARS-BFGL-NGS-1278	61.95435	40806862
4	BTB-00176150	62.18482	40890784
4	Hapmap43659-BTA-70032	62.27635	40924111
4	Hapmap41203-BTA-20852	62.42589	40978563
4	ARS-BFGL-NGS-110306	62.62881	41052453
4	ARS-BFGL-NGS-35523	62.69893	41128696
4	BTB-00890646	62.71685	41150639
4	BTB-00890676	62.73973	41178661
4	BTB-01769627	62.77169	41217800

4	BTA-119980-no-rs	62.78114	41229374
4	BTB-01119935	62.80871	41263137
4	BTB-01120104	62.84098	41302649
4	BTB-01119916	62.9013	41376527
4	Hapmap38735-BTA-22307	62.92623	41407058
4	BTB-01922107	62.95675	41444423
4	Hapmap40021-BTA-70278	63.04852	41556810
4	BTB-00178966	63.07039	41583591
4	Hapmap38341-BTA-70281	63.09269	41610894
4	BTB-00179180	63.13104	41657868
4	BTA-70282-no-rs	63.17243	41708556
4	BTA-70284-no-rs	63.32508	41895490
4	Hapmap48859-BTA-70287	63.34441	41919165
4	ARS-BFGL-NGS-100360	63.45069	42049315
4	BTB-01478115	63.49483	42103377
4	BTB-01927917	63.52257	42137347
4	BTB-01771861	63.62055	42257334
4	Hapmap25108-BTA-18447	63.71449	42372381
4	BTB-00178712	63.76268	42431385
4	BTB-00178810	63.83752	42523038
4	BTB-00178816	63.85564	42545230
4	BTB-00179461	63.88223	42577794
4	BTB-00179484	63.9231	42627843
4	BTB-00179514	63.97775	42694771
4	BTA-70293-no-rs	64.00925	42733341
4	ARS-BFGL-NGS-63223	64.07855	42818215
4	BTB-00178642	64.27	43085183
4	ARS-BFGL-NGS-116726	64.27	43121671
4	Hapmap55510-rs29010454	64.2738	43175304
4	BTA-70272-no-rs	64.28144	43214988
4	Hapmap47167-BTA-107276	64.29631	43292197
4	ARS-BFGL-NGS-112363	64.30855	43355786
4	ARS-BFGL-NGS-112234	64.32466	43439437
4	ARS-BFGL-NGS-113663	64.34159	43527371
4	Hapmap29687-BTA-154733	64.35574	43600871
4	ARS-BFGL-NGS-90974	64.4781	43710013
4	Hapmap55018-rs29025758	64.55015	43763107
4	Hapmap60804-rs29027881	64.68174	43860090
4	Hapmap28059-BTA-161846	64.7	43916820
4	ARS-BFGL-NGS-64346	64.84538	44142921
4	ARS-BFGL-NGS-15203	64.90919	44177870
4	ARS-BFGL-NGS-115790	64.99368	44224161
4	ARS-BFGL-NGS-13400	65.0357	44293015
4	Hapmap51913-BTA-70389	65.04861	44359029
4	ARS-BFGL-NGS-12941	65.07028	44469848
4	BTB-00181826	65.07731	44505761
4	BTB-01652821	65.08442	44542142
4	BTB-01652857	65.09	44570670
4	ARS-BFGL-NGS-97941	65.09824	44612810
4	ARS-BFGL-NGS-110957	65.13345	44792807
4	BTB-00182380	65.142	44836559
4	ARS-BFGL-NGS-33573	65.15134	44884299
4	BTA-70407-no-rs	65.15984	44927776
4	Hapmap38427-BTA-70434	65.16467	44952454
4	Hapmap49715-BTA-70437	65.16769	44967890
4	ARS-BFGL-NGS-38841	65.17255	44992767
4	BTB-00181882	65.17815	45021369
4	ARS-BFGL-NGS-40525	65.18946	45079239
4	BTB-01330323	65.19424	45103652

4	ARS-BFGL-NGS-11339	65.19903	45128142	
4	BTB-01330302	65.20328	45149895	
4	BTA-24137-no-rs	65.20788	45173410	
4	BTA-24135-no-rs	65.2135	45202155	
4	BTA-37625-no-rs	65.23519	45313054	
4	BTB-00614426	65.24026	45338985	
4	Hapmap59465-rs29011243	65.24439	45360108	
4	ARS-BFGL-NGS-29867	65.25731	45426146	
4	BTA-113800-no-rs	65.26652	45473258	
4	BTB-00182993	65.28643	45513003	
4	ARS-BFGL-NGS-90711	65.33447	45577225	
4	BTA-70441-no-rs	65.35303	45602047	
4	BTB-01562667	65.39986	45664659	
4	BTA-11650-rs29017408	65.43429	45710677	
4	Hapmap55111-rs29019556	65.45885	45743508	
4	ARS-BFGL-NGS-66875	65.50694	45807808	
4	BTB-01351245	65.52752	45835326	
4	BTB-01351221	65.54369	45856948	
4	BTB-01351261	65.55585	45873210	
4	ARS-BFGL-NGS-38285	65.61012	45945762	
4	ARS-BFGL-NGS-108242	65.62994	45972263	
4	ARS-BFGL-NGS-23878	65.66588	46043537	
4	ARS-BFGL-NGS-835	65.67867	46084089	
4	Hapmap47168-BTA-107289	65.69597	46138975	
4	ARS-BFGL-NGS-101418	65.71687	46205276	
4	ARS-BFGL-NGS-14155	65.74644	46299099	
4	Hapmap48862-BTA-70431	65.75768	46334762	
4	ARS-BFGL-NGS-117740	65.7652	46358600	
4	BTA-70433-no-rs	65.77253	46381877	
4	BTB-00182731	65.79808	46462919	
4	BTB-00182742	65.80493	46484672	
4	BTB-00182760	65.81445	46514849	
4	BTB-00182813	65.83611	46583566	
4	BTB-00183295	65.86065	46661436	
4	Hapmap50446-BTA-70460	65.91544	46835269	
4	Hapmap51033-BTA-70457	65.93292	46890706	
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4	Hapmap36497-SCAFFOLD317908_23531	66.02038	47168160	
4	ARS-BFGL-NGS-105598	66.02898	47195467	
4	ARS-BFGL-NGS-30059	66.03562	47216521	
4	BTB-00183944	66.05025	47262921	
4	ARS-BFGL-NGS-98878	66.0712	47329385	
4	ARS-BFGL-NGS-102463	66.08033	47358350	
4	ARS-BFGL-NGS-20161	66.09229	47396270	
4	BTA-70508-no-rs	66.10252	47428767	
4	BTB-00183730	66.11353	47463674	
4	BTA-70505-no-rs	66.12545	47501491	
4	BTA-70504-no-rs	66.13746	47539595	
4	Hapmap43660-BTA-70498	66.1627	47619682	
4	ARS-BFGL-NGS-25928	66.18719	47697368	
4	ARS-BFGL-NGS-95937	66.19989	47737653	
4	BTA-70487-no-rs	66.2078	47762763	
4	BTA-110861-no-rs	66.21586	47788307	
4	BTB-01651634	66.22635	47821591	
4	Hapmap40337-BTA-110858	66.23362	47844667	
4	ARS-BFGL-NGS-40546	66.24158	47869938	
4	BTB-00183304	66.25407	47909532	



4	ARS-BFGL-NGS-86664	66.26663	47949379	
4	ARS-BFGL-NGS-25314	66.27372	47971872	
4	BTB-01637746	66.2916	48028619	
4	Hapmap26447-BTA-155502	66.301	48058440	
4	ARS-USMARC-349	66.37106	48280680	
4	Hapmap39284-BTA-70361	66.38857	48408626	
4	BTB-00180546	66.39052	48431383	
4	BTA-120528-no-rs	66.39302	48460437	
4	BTB-00180592	66.39853	48524508	
4	ARS-BFGL-NGS-112622	66.40388	48586647	
4	Hapmap28169-BTA-70367	66.40635	48615363	
4	Hapmap46158-BTA-70371	66.40928	48649499	
4	BTB-00180945	66.41262	48688283	
4	Hapmap41338-BTA-70373	66.4201	48775246	
4	BTB-00181018	66.42389	48819329	
4	ARS-BFGL-NGS-80947	66.42831	48870790	
4	BTB-00181232	66.43476	48945677	
4	BTA-70379-no-rs	66.43743	48976782	
4	Hapmap50445-BTA-70383	66.44255	49036289	
4	ARS-BFGL-NGS-78389	66.44584	49074467	
4	ARS-BFGL-NGS-26033	66.44852	49105752	
4	BTB-00181387	66.45055	49129204	
4	Hapmap48860-BTA-70350	66.45921	49229954	
4	Hapmap40186-BTA-70345	66.46298	49273818	
4	BTB-00180381	66.4668	49318278	
4	Hapmap53745-rs29022883	66.47135	49371108	
4	BTA-94736-no-rs	66.47504	49414060	
4	BTB-00179771	66.4778	49446088	
4	ARS-BFGL-NGS-61023	66.48194	49494267	
4	UA-IFASA-8621	66.48545	49535036	
4	ARS-BFGL-NGS-103863	66.49245	49616352	
4	BTA-70313-no-rs	66.49462	49641651	
4	Hapmap35076-BES8_Contig223_1291	66.49638	49662153	
4	BTA-70317-no-rs	66.49901	49692660	
4	BTA-70321-no-rs	66.50113	49717334	
4	Hapmap43020-BTA-70327	66.50297	49738691	
4	ARS-BFGL-NGS-14039	66.5083	49800685	
4	BTB-01669008	66.51031	49824079	
4	Hapmap44583-BTA-111987	66.51318	49857470	
4	UA-IFASA-7498	66.51748	49907346	
4	BTB-00180208	66.52556	50001287	
4	BTA-01291-no-rs	66.52802	50029913	
4	ARS-BFGL-NGS-110245	66.53345	50093060	
4	ARS-BFGL-NGS-27553	66.53595	50122088	
4	ARS-BFGL-NGS-110001	66.53993	50168417	
4	ARS-BFGL-NGS-114035	66.55127	50300237	
4	BTA-16657-no-rs	66.55315	50322082	
4	Hapmap54533-rs29013481	66.56096	50412884	
4	BTB-01287474	66.56139	50417818	
4	ARS-BFGL-NGS-9028	66.56989	50516693	
4	BTA-101318-no-rs	66.57258	50547931	
4	ARS-BFGL-NGS-104846	66.592	50773705	
4	BTA-25507-no-rs	66.60514	50926486	
4	Hapmap54947-rs29009770	66.6241	51146972	
4	BTA-91631-no-rs	66.63986	51330208	
4	Hapmap55648-rs29025355	66.64333	51370504	
4	BTB-00184775	66.64639	51406099	
4	ARS-BFGL-NGS-117196	66.64942	51441328	
4	ARS-BFGL-NGS-113150	66.652	51471353	

4	Hapmap33797-BTA-70610	66.65833	51544844
4	BTB-00185536	66.66782	51655250
4	BTB-00184816	66.67165	51699759
4	Hapmap51289-BTA-70566	66.67394	51726432
4	BTB-00184917	66.67965	51792757
4	ARS-BFGL-NGS-29401	66.68319	51833896
4	BTB-00185584	66.686	51866668
4	UA-IFASA-6226	66.69125	51927595
4	BTB-00185792	66.69521	51973703
4	BTB-00185806	66.69874	52014692
4	Hapmap43914-BTA-70640	66.7007	52037442
4	BTA-82217-no-rs	66.70716	52112557
4	Hapmap58409-rs29020726	66.70943	52138962
4	BTA-82216-no-rs	66.72401	52308430
4	BTA-82215-no-rs	66.72654	52337891
4	Hapmap41484-BTA-22365	66.73355	52419444
4	ARS-BFGL-NGS-77960	66.74	52533927
4	BTB-01592886	66.74	52589260
4	BTB-01592826	66.74	52624584
4	BTB-01592646	66.74	52669435
4	BTA-28293-no-rs	66.74	52690928
4	Hapmap36743-SCAFFOLD20938_6775	66.74	52801852
4	ARS-BFGL-NGS-25383	66.74064	52823821
4	UA-IFASA-1746	66.74232	52849283
4	BTB-01065803	66.75056	52974459
4	BTB-01065788	66.7527	53007008
4	ARS-BFGL-NGS-114296	66.76172	53143855
4	BTB-01065960	66.76385	53176385
4	BTB-01065966	66.7681	53240815
4	BTB-01066119	66.77311	53316893
4	ARS-BFGL-NGS-30090	66.7759	53359316
4	BTB-01066167	66.77863	53400639
4	ARS-BFGL-NGS-38893	66.79345	53434639
4	ARS-BFGL-NGS-38480	66.92184	53560330
4	Hapmap45967-BTA-99756	66.96892	53606420
4	Hapmap50535-BTA-99757	67.04454	53680460
4	BTB-01066381	67.14317	53777012
4	ARS-BFGL-NGS-113702	67.19715	53829866
4	BTB-01066453	67.22514	53857273
4	BTB-00188504	67.29919	53929767
4	BTB-00188617	67.34526	53974870
4	BTB-00188660	67.37289	54001910
4	Hapmap33484-BTA-142221	67.40045	54028906
4	Hapmap48445-BTA-70755	67.43529	54063010
4	BTB-00188992	67.4884	54115002
4	ARS-BFGL-NGS-115783	67.51971	54145659
4	BTB-00189082	67.57844	54203153
4	BTB-00940872	67.76382	54384650
4	BTB-00940868	67.7943	54414487
4	Hapmap40772-BTA-61438	67.82683	54446327
4	BTB-00940849	67.85593	54474827
4	BTB-01418162	67.89657	54514612
4	ARS-BFGL-NGS-34001	67.96223	54578893
4	BTB-01298839	68.17559	54705552
4	BTB-01298917	68.34403	54781445
4	BTB-01298865	68.45621	54831985
4	ARS-BFGL-NGS-39795	68.54635	54872595
4	BTB-01298928	68.62859	54903404
4	BTB-01298953	68.70222	54930726

4	BTA-19471-no-rs	68.78688	54962144	
4	Hapmap34965-BES8_Contig580_3561	68.87363		55050570
4	BTA-110705-no-rs	69.00243	55313701	
4	BTB-01263701	69.04602	55351773	
4	BTB-00555748	69.09862	55384794	
4	ARS-BFGL-NGS-6723	69.18593	55439598	
4	BTB-01738708	69.38853	55566787	
4	BTB-01263878	69.43288	55594630	
4	BTB-01263819	69.47601	55621700	
4	BTB-01889269	69.58041	55687238	
4	ARS-BFGL-NGS-35354	69.67442	55746256	
4	BTB-00186413	70.12845	56031281	
4	BTB-00186432	70.1879	56068600	
4	Hapmap54543-rs29011993	70.23945	56100964	
4	BTB-00186634	70.28344	56128581	
4	BTA-70675-no-rs	70.39608	56199292	
4	ARS-BFGL-NGS-111478	70.43306	56222505	
4	Hapmap42660-BTA-75089	70.60382	56329704	
4	BTA-16397-no-rs	70.6694	56370876	
4	BTB-00186038	70.84169	56479030	
4	BTB-00186089	70.95025	56547180	
4	BTB-00186757	71.09917	56640673	
4	BTA-06202-rs29020566	71.18077	56691893	
4	Hapmap48652-BTA-121634	71.37449	56813503	
4	BTA-70690-no-rs	71.47247	56875012	
4	Hapmap55341-rs29010064	71.58	57038837	
4	ARS-BFGL-NGS-58469	71.58	57055211	
4	ARS-BFGL-NGS-84791	71.58	57085138	
4	BTB-02035389	71.61866	57112422	
4	Hapmap39521-BTA-89033	71.7544	57139727	
4	BTB-01403737	71.88403	57165802	
4	Hapmap47769-BTA-89036	72.07426	57204062	
4	Hapmap25577-BTA-148332	72.20775	57230916	
4	Hapmap54988-rs29020907	72.34783	57259091	
4	ARS-BFGL-NGS-31435	72.53397	57296533	
4	BTA-70707-no-rs	72.71	57333234	
4	ARS-BFGL-NGS-99336	72.71	57375930	
4	BTA-70715-no-rs	72.78812	57460820	
4	BTB-00187975	72.87387	57553315	
4	BTB-00187988	72.89573	57576898	
4	Hapmap38342-BTA-70722	72.98573	57673965	
4	BTA-70724-no-rs	73.05108	57744446	
4	BTB-00188171	73.09093	57787437	
4	BTA-70725-no-rs	73.11127	57809364	
4	Hapmap60125-rs29018949	73.13021	57829798	
4	ARS-BFGL-NGS-90205	73.17209	57874971	
4	BTA-70744-no-rs	73.22882	57936156	
4	Hapmap60763-rs29014471	73.27363	57984488	
4	Hapmap53694-rs29015972	73.30955	58023230	
4	ARS-BFGL-NGS-105821	73.35503	58072287	
4	Hapmap57810-rs29009951	73.3954	58115832	
4	ARS-BFGL-NGS-110097	73.41454	58136462	
4	BTB-01640588	73.4473	58171808	
4	Hapmap55561-rs29010357	73.47643	58203233	
4	Hapmap44705-BTA-120271	73.57058	58305087	
4	BTB-01264154	73.61092	58349221	
4	Hapmap58879-rs29013265	73.65351	58395811	
4	ARS-BFGL-NGS-109868	73.68872	58434323	
4	ARS-BFGL-NGS-23272	73.71952	58468024	

4	ARS-BFGL-NGS-28532	73.75989	58512174
4	Hapmap49880-BTA-120276	73.80704	58563766
4	Hapmap51560-BTA-120262	73.87204	58634866
4	Hapmap43783-BTA-119428	73.90437	58670242
4	BTA-119434-no-rs	73.92373	58691410
4	BTB-00188425	74.06568	58846700
4	BTA-70752-no-rs	74.09928	58883457
4	Hapmap52199-rs29020557	74.1332	58920558
4	ARS-BFGL-NGS-115676	74.15292	58942130
4	BTB-00189289	74.18318	58975234
4	UA-IFASA-1608	74.2045	58998553
4	BTB-00189357	74.22526	59021265
4	BTA-70765-no-rs	74.28729	59089119
4	Hapmap43661-BTA-70769	74.3386	59145247
4	Hapmap39679-BTA-70777	74.40372	59216486
4	ARS-BFGL-NGS-31095	74.43658	59252442
4	BTB-00189889	74.47215	59291348
4	BTB-00189909	74.50495	59327227
4	BTB-00190417	74.52	59466125
4	BTB-00190444	74.52	59509462
4	ARS-BFGL-NGS-118588	74.52	59539393
4	BTB-00190485	74.52	59580367
4	Hapmap41620-BTA-70804	74.52	59606204
4	BTA-70794-no-rs	74.52	59667735
4	BTA-70802-no-rs	74.52353	59710881
4	ARS-BFGL-NGS-114455	74.54101	59744707
4	ARS-BFGL-NGS-8312	74.59834	59855665
4	BTB-00190917	74.61653	59890861
4	BTA-70806-no-rs	74.62882	59914642
4	ARS-BFGL-NGS-5482	74.67292	59999976
4	ARS-BFGL-NGS-116115	74.7012	60054713
4	ARS-BFGL-NGS-102202	74.72177	60094523
4	Hapmap51420-BTA-20855	74.73419	60118562
4	ARS-BFGL-NGS-119775	74.75002	60149181
4	ARS-BFGL-NGS-42679	74.75456	60157977
4	ARS-BFGL-NGS-109556	74.76871	60185352
4	ARS-BFGL-NGS-71481	74.78048	60208127
4	ARS-BFGL-NGS-36881	74.81052	60266268
4	ARS-BFGL-NGS-38567	74.82201	60288494
4	ARS-BFGL-NGS-100984	74.84038	60324045
4	ARS-BFGL-NGS-118435	74.85553	60353370
4	Hapmap47381-BTA-70830	74.89658	60432800
4	ARS-BFGL-NGS-42618	74.91736	60473007
4	Hapmap49717-BTA-70840	74.94219	60521073
4	Hapmap27404-BTA-142249	74.9585	60552628
4	Hapmap39680-BTA-70826	75.00129	60635433
4	ARS-BFGL-NGS-24133	75.02286	60677181
4	ARS-BFGL-NGS-56156	75.06553	60759757
4	ARS-BFGL-NGS-115377	75.07674	60781458
4	ARS-BFGL-NGS-46170	75.09135	60809733
4	ARS-BFGL-NGS-98675	75.14697	60917347
4	BTB-00187477	75.17265	60967050
4	ARS-BFGL-NGS-115237	75.1979	61015911
4	BTB-00187201	75.22881	61075731
4	BTB-00187176	75.24068	61098696
4	ARS-BFGL-NGS-27033	75.25391	61124293
4	BTA-02000-rs29012953	75.26917	61153837
4	BTA-70697-no-rs	75.29503	61203879
4	BTB-00187008	75.31087	61234542

4	Hapmap42645-BTA-70875	75.33142	61274297	
4	Hapmap53007-rs29013223	75.35716	61324109	
4	ARS-BFGL-NGS-24321	75.37074	61350391	
4	ARS-BFGL-NGS-101883	75.38404	61376132	
4	ARS-BFGL-NGS-100947	75.41961	61444963	
4	Hapmap54734-rs29026555	75.43378	61472382	
4	ARS-BFGL-NGS-110519	75.45115	61505994	
4	BTB-00192005	75.46996	61542387	
4	Hapmap48865-BTA-70864	75.49039	61581941	
4	BTB-00191792	75.5281	61654907	
4	ARS-BFGL-NGS-3438	75.54015	61678239	
4	BTB-02003236	75.5528	61702691	
4	BTB-00191572	75.56671	61729628	
4	BTA-70855-no-rs	75.61269	61818594	
4	BTB-00191519	75.62758	61847422	
4	ARS-BFGL-NGS-92793	75.65366	61897880	
4	Hapmap50451-BTA-70851	75.6743	61934892	
4	BTB-00191279	75.74197	62019561	
4	BTB-00191251	75.77678	62063099	
4	Hapmap47080-BTA-70846	75.79811	62089794	
4	BTA-70845-no-rs	75.82428	62122533	
4	ARS-BFGL-NGS-118506	75.87747	62189085	
4	BTB-00191081	75.903	62221016	
4	BTA-70842-no-rs	75.98643	62325391	
4	BTA-89152-no-rs	76.00487	62348465	
4	ARS-BFGL-NGS-99082	76.02715	62376334	
4	ARS-BFGL-NGS-12397	76.05896	62416138	
4	BTB-00193035	76.08493	62448627	
4	BTA-70899-no-rs	76.10912	62478888	
4	ARS-BFGL-NGS-76682	76.16588	62549908	
4	ARS-BFGL-NGS-19036	76.18258	62570795	
4	BTB-00193327	76.19	62606492	
4	ARS-BFGL-NGS-86043	76.19	62638018	
4	BTB-00193368	76.19529	62661085	
4	BTB-00193392	76.21054	62685650	
4	Hapmap43154-BTA-11252	76.24609	62742887	
4	BTB-00193466	76.2606	62766260	
4	BTA-121635-no-rs	76.27861	62795271	
4	BTB-00193651	76.32876	62876037	
4	ARS-BFGL-NGS-117482	76.34757	62906331	
4	Hapmap46159-BTA-70956	76.38133	62960701	
4	Hapmap53492-rs29026148	76.39398	62981078	
4	BTA-70947-no-rs	76.41961	63022352	
4	Hapmap39583-BTA-70939	76.44189	63058223	
4	BTA-70929-no-rs	76.46253	63091475	
4	ARS-BFGL-NGS-1712	76.48082	63120929	
4	ARS-BFGL-NGS-39957	76.4921	63139098	
4	Hapmap48446-BTA-70928	76.57539	63273237	
4	Hapmap50452-BTA-70921	76.60188	63315888	
4	Hapmap36742-SCAFFOLD70177_16088	76.62262	63349293	
4	ARS-BFGL-NGS-37873	76.66697	63420711	
4	ARS-BFGL-NGS-43016	76.6882	63454908	
4	Hapmap55086-rs29012211	76.72776	63518623	
4	BTA-56392-no-rs	76.78934	63617795	
4	ARS-BFGL-NGS-4920	76.81215	63654530	
4	ARS-BFGL-NGS-113815	76.82478	63674872	
4	ARS-BFGL-NGS-115492	76.84695	63710575	
4	ARS-BFGL-NGS-31114	76.92664	63838909	
4	Hapmap40025-BTA-79683	76.94115	63862278	

4	Hapmap39072-BTA-79684	76.96886	63906905	
4	Hapmap43916-BTA-70890	77.05966	64053148	
4	BTA-70882-no-rs	77.16554	64223665	
4	Hapmap43334-BTA-70880	77.20522	64287547	
4	ARS-BFGL-NGS-458	77.24497	64351574	
4	Hapmap39941-BTA-70878	77.26651	64386271	
4	ARS-BFGL-NGS-39740	77.28579	64417319	
4	ARS-BFGL-NGS-68143	77.33273	64492908	
4	BTA-106266-no-rs	77.35787	64533408	
4	BTA-120546-no-rs	77.37035	64553507	
4	ARS-BFGL-NGS-32516	77.38685	64580076	
4	Hapmap55516-rs29015265	77.51154	64780881	
4	Hapmap36353-SCAFFOLD29708_3468		77.59987	64923141
4	ARS-BFGL-NGS-42921	77.64291	64992462	
4	Hapmap26478-BTA-161959	77.67654	65046623	
4	ARS-BFGL-NGS-15489	77.6935	65073924	
4	BTB-01327575	77.75455	65172247	
4	ARS-BFGL-NGS-118587	77.78445	65220395	
4	BTA-09121-no-rs	77.80981	65261249	
4	BTB-01817161	77.82841	65291207	
4	BTB-01392193	77.83388	65299999	
4	ARS-BFGL-NGS-91573	77.86184	65346870	
4	BTB-01392143	77.87286	65375544	
4	BTB-01392113	77.88249	65400608	
4	BTB-01392065	77.90459	65458091	
4	Hapmap43717-BTA-87854	77.94661	65567461	
4	BTB-00193817	77.96265	65609188	
4	ARS-BFGL-NGS-33310	78.03931	65798873	
4	ARS-BFGL-NGS-40376	78.07036	65846954	
4	ARS-BFGL-NGS-20949	78.14186	65984649	
4	ARS-BFGL-NGS-45911	78.15226	66013568	
4	ARS-BFGL-NGS-26541	78.16138	66038939	
4	ARS-BFGL-NGS-36762	78.17521	66077417	
4	BTB-01411318	78.18724	66110869	
4	BTB-01411209	78.2032	66155273	
4	ARS-BFGL-NGS-13878	78.21143	66178170	
4	Hapmap48240-BTA-18657	78.61777	66287747	
4	ARS-BFGL-NGS-107905	78.68385	66322307	
4	BTB-00194057	78.69025	66346549	
4	Hapmap42296-BTA-70995	78.69614	66368850	
4	BTA-70992-no-rs	78.70389	66398178	
4	BTB-00194018	78.71004	66421522	
4	ARS-BFGL-NGS-37173	78.72625	66482908	
4	ARS-BFGL-NGS-23789	78.73183	66504063	
4	BTA-13086-rs29018051	78.74646	66559453	
4	BTB-00194107	78.7527	66583105	
4	BTB-00194223	78.77029	66649741	
4	BTA-70997-no-rs	78.78244	66695747	
4	BTA-70999-no-rs	78.80505	66781385	
4	ARS-BFGL-NGS-36591	78.81803	66830563	
4	Hapmap57289-ss46526668	78.82433	66854427	
4	Hapmap38810-BTA-112510	78.84545	66934444	
4	ARS-BFGL-NGS-44674	78.8572	66978951	
4	ARS-BFGL-NGS-39056	78.86467	67007235	
4	Hapmap51035-BTA-71047	78.8834	67078172	
4	Hapmap47704-BTA-71045	78.89314	67115048	
4	BTA-71030-no-rs	78.90128	67145895	
4	BTB-00194614	78.91127	67183757	
4	Hapmap40188-BTA-71028	78.92138	67222038	

4	ARS-BFGL-NGS-116611	78.98613	67378804
4	BTB-00195350	79.07582	67546405
4	Hapmap41071-BTA-71070	79.11294	67615775
4	Hapmap48059-BTA-71067	79.13364	67654471
4	Hapmap51293-BTA-71066	79.15864	67701182
4	BTA-71063-no-rs	79.19694	67772757
4	BTA-71062-no-rs	79.21041	67797930
4	ARS-BFGL-NGS-44314	79.22347	67822341
4	ARS-BFGL-NGS-79224	79.25468	67880668
4	BTA-71054-no-rs	79.31194	68035522
4	BTB-00195098	79.32295	68062301
4	BTB-00195004	79.35528	68140952
4	Hapmap51854-BTA-71049	79.37637	68192268
4	ARS-BFGL-NGS-85701	79.40151	68253462
4	ARS-BFGL-NGS-111515	79.41064	68275669
4	Hapmap30912-BTA-71048	79.42629	68313751
4	BTA-106667-no-rs	79.47456	68431204
4	BTA-106668-no-rs	79.48338	68452656
4	Hapmap39010-BTA-121642	79.51467	68528799
4	Hapmap38730-BTA-121643	79.53532	68579054
4	ARS-BFGL-NGS-57945	79.54379	68599650
4	Hapmap46862-BTA-71103	79.61426	68771118
4	Hapmap58944-rs29011673	79.6504	68821397
4	BTA-71107-no-rs	79.70181	68882831
4	BTA-71112-no-rs	79.7514	68942061
4	Hapmap46863-BTA-71117	79.80772	69009351
4	Hapmap49719-BTA-71119	79.83215	69038555
4	ARS-BFGL-NGS-68509	79.93238	69158293
4	ARS-BFGL-NGS-37048	80.01993	69262899
4	ARS-BFGL-NGS-7407	80.12726	69391131
4	ARS-BFGL-NGS-38191	80.16139	69431904
4	ARS-BFGL-NGS-4110	80.21911	69500860
4	ARS-BFGL-NGS-67967	80.25186	69539994
4	Hapmap33251-BTA-160264	80.38	69693905
4	Hapmap44212-BTA-122090	80.38	69782727
4	ARS-BFGL-NGS-21631	80.38	69831612
4	ARS-BFGL-NGS-97522	80.38	69926730
4	Hapmap32854-BTA-155083	80.38	69955754
4	Hapmap42647-BTA-71143	80.38	70068854
4	ARS-BFGL-NGS-88361	80.38	70089160
4	ARS-BFGL-NGS-105661	80.38	70197479
4	ARS-BFGL-NGS-105263	80.38	70276669
4	Hapmap47172-BTA-109521	80.38	70305010
4	ARS-BFGL-NGS-119675	80.38	70351186
4	ARS-BFGL-NGS-115217	80.38	70399494
4	ARS-BFGL-NGS-51759	80.38	70419951
4	Hapmap41750-BTA-109512	80.38	70452369
4	ARS-BFGL-NGS-70032	80.38	70482602
4	BTA-116026-no-rs	80.38	70508946
4	ARS-BFGL-NGS-116468	80.38	70537648
4	Hapmap49439-BTA-109526	80.43682	70643370
4	BTA-71180-no-rs	80.4612	70680040
4	ARS-BFGL-NGS-36876	80.47511	70700960
4	ARS-BFGL-NGS-51159	80.49432	70729858
4	ARS-BFGL-NGS-115010	80.56737	70839756
4	ARS-BFGL-NGS-8047	80.60278	70893038
4	ARS-BFGL-NGS-2994	80.6677	70990705
4	Hapmap39351-BTA-71190	80.69508	71031890
4	Hapmap42648-BTA-71195	80.71458	71061224

4	ARS-BFGL-NGS-6754	80.73331	71089406	
4	Hapmap50453-BTA-71205	80.74983	71114254	
4	ARS-BFGL-NGS-64170	80.80137	71191782	
4	BTA-88376-no-rs	80.91074	71356324	
4	BTA-88378-no-rs	80.94842	71413010	
4	Hapmap28362-BTA-148086	80.96175	71433452	
4	ARS-BFGL-NGS-1410	80.97559	71457286	
4	ARS-BFGL-NGS-39510	80.99161	71484912	
4	ARS-BFGL-NGS-42794	81.0173	71529187	
4	ARS-BFGL-NGS-103685	81.03146	71553598	
4	BTA-109199-no-rs	81.07299	71625158	
4	ARS-BFGL-NGS-14935	81.14581	71750660	
4	ARS-BFGL-NGS-41489	81.23199	71899176	
4	ARS-BFGL-NGS-20921	81.2609	71949013	
4	BTA-97670-no-rs	81.27781	71978141	
4	Hapmap36554-NPY_499F3-SNP1	81.33181	72071212	
4	Hapmap43336-BTA-71316	81.38642	72165333	
4	ARS-BFGL-NGS-11190	81.4509	72275120	
4	ARS-BFGL-NGS-42898	81.66418	72328272	
4	BTA-71318-no-rs	82.05305	72539230	
4	ARS-BFGL-NGS-42007	82.09332	72575811	
4	BTA-71331-no-rs	82.13334	72612152	
4	Hapmap43662-BTA-71333	82.23285	72702535	
4	Hapmap43917-BTA-71319	82.31808	72779945	
4	Hapmap42065-BTA-111154	82.43626	72920828	
4	Hapmap49452-BTA-112834	82.46697	72987997	
4	BTB-01595589	82.48335	73023785	
4	BTB-01595788	82.51139	73085109	
4	BTB-01708864	82.53239	73131030	
4	BTB-00196354	82.59604	73270175	
4	BTA-71334-no-rs	82.65084	73390009	
4	ARS-BFGL-NGS-21842	82.71545	73531264	
4	BTA-71353-no-rs	82.7305	73564171	
4	BTA-71361-no-rs	82.74593	73597885	
4	BTB-00196774	82.76322	73635712	
4	BTB-00196827	82.77847	73669041	
4	BTB-00196932	82.79247	73699663	
4	ARS-BFGL-NGS-31033	82.8064	73730122	
4	Hapmap44399-BTA-71366	82.8192	73758088	
4	BTB-00197052	82.83437	73791282	
4	BTA-71368-no-rs	82.85558	73837632	
4	BTB-00197128	82.8665	73861517	
4	BTB-00197149	82.88142	73894130	
4	ARS-BFGL-NGS-44382	82.89956	73933795	
4	BTB-01965166	82.91336	73963975	
4	BTB-01709170	82.9327	74006260	
4	Hapmap42080-BTA-115228	82.94905	74042008	
4	BTB-02044451	82.98687	74124684	
4	BTB-01955910	82.9977	74148361	
4	BTB-01327945	83.01393	74183860	
4	BTB-01328019	83.03731	74234970	
4	BTA-18524-no-rs	83.05186	74266771	
4	BTB-01664105	83.06838	74302903	
4	ARS-BFGL-NGS-86255	83.09038	74350995	
4	BTB-01328155	83.14032	74460194	
4	Hapmap31842-BTA-161975	83.15754	74497834	
4	Hapmap54648-rs29025386	83.17277	74531125	
4	BTB-00197584	83.22527	74579013	
4	BTB-01555035	83.54733	74672227	



4	ARS-BFGL-NGS-55672	83.591	74706240
4	ARS-BFGL-NGS-67968	83.68317	74780951
4	Hapmap43771-BTA-114609	83.73585	74823667
4	ARS-BFGL-NGS-110471	83.87318	74934998
4	Hapmap49284-BTA-71431	84.14324	75153935
4	BTA-71430-no-rs	84.20155	75201210
4	ARS-BFGL-NGS-61452	84.26295	75250982
4	ARS-BFGL-NGS-106987	84.28929	75272338
4	ARS-BFGL-NGS-21411	84.31495	75293134
4	BTB-00198412	84.42149	75379515
4	ARS-BFGL-NGS-71500	84.45511	75406763
4	ARS-BFGL-NGS-15231	84.55486	75487622
4	BTB-00198560	84.5879	75514419
4	ARS-BFGL-NGS-5226	84.61845	75539183
4	Hapmap50073-BTA-71460	84.64346	75559460
4	ARS-BFGL-NGS-110647	84.66864	75579874
4	BTA-71464-no-rs	84.69633	75602323
4	BTB-00198758	84.74379	75640795
4	BTA-71466-no-rs	84.77541	75666435
4	ARS-BFGL-NGS-60615	84.86766	75741220
4	ARS-BFGL-NGS-76647	84.91613	75780515
4	BTB-00198956	85.05172	75890428
4	BTB-00199012	85.12672	75951231
4	Hapmap51296-BTA-71488	85.17046	75986692
4	BTB-02088809	85.20187	76019347
4	Hapmap51855-BTA-71491	85.20831	76049285
4	ARS-BFGL-NGS-75548	85.21337	76072824
4	ARS-BFGL-NGS-113427	85.22434	76123840
4	ARS-BFGL-NGS-2431	85.22978	76149109
4	ARS-BFGL-NGS-102407	85.2375	76185033
4	BTB-00199492	85.2467	76227768
4	ARS-BFGL-NGS-87527	85.2717	76344023
4	BTA-71510-no-rs	85.27757	76371304
4	BTA-71511-no-rs	85.28284	76395838
4	BTA-71520-no-rs	85.2973	76463064
4	ARS-BFGL-NGS-36071	85.30142	76482235
4	ARS-BFGL-NGS-83904	85.31055	76524685
4	ARS-BFGL-NGS-117534	85.31493	76545016
4	ARS-BFGL-NGS-112329	85.32321	76583547
4	BTB-00200025	85.33033	76616650
4	Hapmap23010-BTA-142347	85.33923	76657995
4	ARS-BFGL-NGS-24039	85.35677	76739601
4	BTB-00307908	85.36303	76768665
4	ARS-BFGL-NGS-31715	85.39081	76897822
4	ARS-BFGL-NGS-110085	85.40064	76943551
4	ARS-BFGL-NGS-37807	85.41489	77009788
4	ARS-BFGL-NGS-22118	85.42	77074551
4	ARS-BFGL-NGS-30005	85.42	77108951
4	Hapmap35361-SCAFFOLD86356_3447	85.42	77249037
4	ARS-BFGL-NGS-105631	85.68929	77697936
4	ARS-BFGL-NGS-43041	85.76826	77762822
4	BTA-71093-no-rs	85.8142	77796085
4	ARS-BFGL-NGS-119503	85.87463	77839843
4	ARS-BFGL-NGS-113581	85.94984	77894301
4	BTB-00195629	86.03265	77954275
4	BTB-00195600	86.08984	77995683
4	BTB-00195550	86.14984	78039128
4	BTB-00197240	86.18307	78063188
4	BTB-01562462	86.29451	78143883

4	ARS-BFGL-NGS-112549	86.41014	78227607	
4	ARS-BFGL-NGS-28378	86.43778	78247625	
4	Hapmap39800-BTA-102932	86.53716	78319582	
4	ARS-BFGL-NGS-112268	86.59437	78361004	
4	BTB-02051812	86.63621	78391303	
4	BTB-01096725	86.70352	78440044	
4	Hapmap54517-rs29026587	86.75387	78476506	
4	Hapmap58518-rs29024716	86.81925	78523846	
4	BTB-01096875	86.86192	78554747	
4	BTA-22393-no-rs	86.90638	78586933	
4	ARS-BFGL-NGS-58613	86.93738	78609385	
4	Hapmap51399-BTA-116973	87.11874	78740705	
4	BTA-116976-no-rs	87.15302	78765530	
4	Hapmap38208-BTA-22377	87.22113	78814850	
4	ARS-BFGL-NGS-116200	87.25991	78842925	
4	ARS-BFGL-NGS-112048	87.30673	78876832	
4	ARS-BFGL-NGS-11194	87.44417	78976354	
4	Hapmap42140-BTA-22375	87.61316	79215287	
4	BTB-01096614	87.63175	79254806	
4	ARS-BFGL-NGS-117732	87.72653	79456300	
4	Hapmap34214-BES4_Contig204_631		87.83221	79680986
4	ARS-BFGL-NGS-92811	87.85858	79737033	
4	ARS-BFGL-NGS-114694	87.8812	79785116	
4	BTB-00200089	87.90514	79836019	
4	BTB-00200143	87.93758	79904993	
4	ARS-BFGL-NGS-98435	87.94907	79929392	
4	ARS-BFGL-NGS-112996	87.9807	79996650	
4	BTB-01425165	88.01384	80067104	
4	ARS-BFGL-NGS-7918	88.03416	80110313	
4	ARS-BFGL-NGS-104278	88.06437	80174530	
4	BTB-01425393	88.10551	80261995	
4	BTB-01928726	88.11414	80280325	
4	BTB-00200199	88.13582	80326425	
4	ARS-BFGL-NGS-81609	88.14702	80350223	
4	Hapmap42298-BTA-71527	88.16765	80394088	
4	BTB-00200250	88.17396	80407501	
4	BTB-01687779	88.23869	80545103	
4	Hapmap46191-BTA-101479	88.27005	80611779	
4	BTA-101496-no-rs	88.28038	80633744	
4	BTB-01162076	88.31442	80706119	
4	BTA-89872-no-rs	88.36532	80814309	
4	Hapmap41721-BTA-101476	88.37586	80836727	
4	BTB-01162263	88.38615	80858604	
4	BTA-101478-no-rs	88.39669	80881001	
4	ARS-BFGL-NGS-24833	88.4209	80932460	
4	Hapmap50541-BTA-101489	88.44672	80987365	
4	BTB-01162427	88.45	81021023	
4	BTA-101495-no-rs	88.45	81055851	
4	BTB-01162643	88.45	81132286	
4	BTA-71551-no-rs	88.46521	81170529	
4	Hapmap53753-rs29023393	88.49292	81205652	
4	BTA-71558-no-rs	88.51323	81231390	
4	BTA-71564-no-rs	88.5321	81255320	
4	Hapmap54007-rs29018645	88.62896	81378100	
4	Hapmap40292-BTA-71565	88.64682	81400732	
4	BTB-00201173	88.67298	81433898	
4	BTA-71570-no-rs	88.72291	81497187	
4	Hapmap41792-BTA-18792	88.82361	81624828	
4	Hapmap60835-rs29021024	88.90966	81733900	

4	ARS-BFGL-NGS-90094	88.95373	81789767	
4	BTA-87133-no-rs	88.98615	81830858	
4	Hapmap48502-BTA-87135	89.05389	81916729	
4	Hapmap53503-rs29017140	89.12187	82002903	
4	Hapmap38069-BTA-34757	89.14907	82037383	
4	BTB-00567011	89.15872	82049617	
4	BTB-00567063	89.17778	82073777	
4	BTB-01497193	89.22909	82138809	
4	ARS-BFGL-NGS-108354	89.25178	82167575	
4	BTB-01497290	89.30473	82234696	
4	BTB-00566951	89.36658	82313107	
4	BTB-00566808	89.38448	82335779	
4	BTB-00566778	89.41179	82370403	
4	BTB-00566744	89.42455	82386574	
4	ARS-BFGL-NGS-100651	89.44265	82409522	
4	BTB-00566688	89.47087	82445297	
4	UA-IFASA-6097	89.5111	82496288	
4	BTB-00566662	89.53156	82522220	
4	BTB-00922140	89.55367	82550244	
4	ARS-BFGL-NGS-116146	89.60504	82615365	
4	BTB-00200609	89.62687	82643040	
4	ARS-BFGL-NGS-19836	89.64925	82671406	
4	BTA-121647-no-rs	89.67553	82704716	
4	ARS-BFGL-NGS-86056	89.76065	82796269	
4	Hapmap34732-BES2_Contig215_1234	89.84348	82835706	82835706
4	BTB-01260511	89.94617	82884593	
4	Hapmap42094-BTA-119925	90.02748	82923306	
4	BTA-122586-no-rs	90.03	82968248	
4	ARS-BFGL-NGS-21207	90.03	82992816	
4	ARS-BFGL-NGS-117077	90.03	83040542	
4	Hapmap30589-BTA-158871	90.03	83087738	
4	BTB-01261028	90.03	83121400	
4	Hapmap59506-rs29021284	90.03	83216453	
4	BTB-01261088	90.03	83238386	
4	BTB-01325848	90.03	83342163	
4	ARS-BFGL-NGS-25242	90.03	83381269	
4	ARS-BFGL-NGS-13575	90.03	83445914	
4	Hapmap41486-BTA-23276	90.03	83555683	
4	BTB-01379210	90.03	83591827	
4	BTB-01379114	90.03	83622751	
4	BTA-23277-no-rs	90.03	83668226	
4	BTA-85995-no-rs	90.03	83708251	
4	ARS-BFGL-NGS-84090	90.04985	83737394	
4	BTB-01857387	90.10567	83779701	
4	Hapmap42743-BTA-96829	90.13623	83802875	
4	Hapmap55541-rs29024319	90.18524	83840022	
4	BTB-01142755	90.26163	83897939	
4	BTA-96831-no-rs	90.30303	83929310	
4	BTA-96837-no-rs	90.34169	83958615	
4	Hapmap60682-rs29013346	90.39191	83996686	
4	BTA-96843-no-rs	90.42001	84017983	
4	ARS-BFGL-NGS-43812	90.50314	84080999	
4	BTB-01142924	90.55287	84118706	
4	Hapmap48138-BTA-96848	90.59885	84153557	
4	BTB-01744249	90.80141	84307106	
4	BTB-01943785	90.84387	84339298	
4	ARS-BFGL-NGS-111033	90.90897	84388639	
4	ARS-BFGL-NGS-117737	90.93949	84411772	
4	Hapmap27885-BTA-154750	91.12988	84541030	

4	BTB-01653226	91.24362	84612957	
4	Hapmap50213-BTA-110976	91.30061	84648999	
4	ARS-BFGL-NGS-16338	91.5705	84819672	
4	BTA-16834-no-rs	91.65482	84872989	
4	BTB-01278441	91.79745	84963191	
4	BTB-01278461	91.83876	84989314	
4	ARS-BFGL-NGS-107560	91.91261	85029248	
4	ARS-BFGL-NGS-106645	92.1329	85140225	
4	BTB-01278887	92.18327	85165600	
4	ARS-BFGL-NGS-110046	92.22903	85188654	
4	BTB-01443627	92.31556	85247179	
4	BTB-01443527	92.3352	85275928	
4	BTB-01443471	92.37122	85328669	
4	ARS-BFGL-NGS-92104	92.39122	85357946	
4	Hapmap51093-BTA-93609	92.40955	85384769	
4	BTB-01739497	92.42274	85404095	
4	Hapmap34293-BES10_Contig535_1147	92.47788		85484814
4	BTB-01816187	92.49828	85514666	
4	Hapmap43022-BTA-71548	92.51604	85540665	
4	BTB-00200867	92.54123	85577545	
4	Hapmap35157-BES8_Contig505_1669	92.56026		85605410
4	UA-IFASA-181	92.58066	85635270	
4	ARS-BFGL-NGS-44363	92.60065	85664528	
4	Hapmap41943-BTA-71550	92.63287	85711706	
4	BTA-104491-no-rs	92.66586	85759993	
4	BTB-01565771	92.68327	85785489	
4	Hapmap43446-BTA-104493	92.7056	85818170	
4	Hapmap39905-BTA-27381	92.76491	85904999	
4	BTB-01257559	92.78387	85932751	
4	BTB-01257567	92.81819	85983005	
4	ARS-BFGL-NGS-90168	92.83554	86008404	
4	Hapmap58175-rs29027322	92.90854	86115273	
4	Hapmap39674-BTA-65901	92.92818	86144034	
4	Hapmap38052-BTA-110922	92.98614	86228872	
4	BTB-01652664	93.00703	86259448	
4	ARS-BFGL-NGS-17043	93.05113	86324014	
4	ARS-BFGL-NGS-118088	93.07186	86354358	
4	BTB-01774413	93.13454	86446125	
4	Hapmap39421-BTA-65907	93.15823	86480802	
4	BTB-01032336	93.21298	86540790	
4	BTB-01032368	93.29943	86591502	
4	ARS-BFGL-NGS-114143	93.38908	86644090	
4	Hapmap58407-rs29020619	93.46865	86690771	
4	BTA-65916-no-rs	93.52761	86725350	
4	ARS-BFGL-NGS-112480	93.6139	86775968	
4	BTB-01032530	93.67403	86811243	
4	BTA-65924-no-rs	93.74601	86853464	
4	BTA-65926-no-rs	93.79648	86883071	
4	ARS-BFGL-NGS-33395	93.86962	86925976	
4	BTA-44040-no-rs	93.9072	86948025	
4	ARS-BFGL-NGS-54357	94.04345	87027941	
4	BTB-00367018	94.09795	87059911	
4	ARS-BFGL-NGS-27980	94.14378	87086801	
4	Hapmap50629-BTA-25069	94.2535	87154009	
4	Hapmap53958-rs29016492	94.30601	87191167	
4	BTA-25084-no-rs	94.34375	87217878	
4	BTB-01100536	94.51756	87340898	
4	BTB-01100556	94.59016	87392282	
4	Hapmap55029-rs29016123	94.76	87542170	

4	BTA-25095-no-rs	94.76	87565171	
4	ARS-BFGL-NGS-7797	94.76	87643015	
4	Hapmap56427-rs29018180	94.76	87715917	
4	BTB-01290330	94.76	87744523	
4	BTB-01290382	94.76	87770622	
4	Hapmap38817-BTA-18244	94.76	87820253	
4	Hapmap44030-BTA-18247	94.80025	87944727	
4	Hapmap51697-BTA-18251	94.83064	87984576	
4	Hapmap40678-BTA-122051	94.93051	88115535	
4	Hapmap58408-rs29020693	94.95935	88153350	
4	ARS-BFGL-NGS-103506	95.03153	88248004	
4	Hapmap47782-BTA-94386	95.05977	88285035	
4	ARS-BFGL-NGS-118105	95.1379	88387484	
4	ARS-BFGL-NGS-2327	95.17385	88434622	
4	BTA-94377-no-rs	95.18997	88455770	
4	BTA-58912-no-rs	95.40813	88741839	
4	Hapmap55855-rs29017652	95.43949	88782951	
4	Hapmap43626-BTA-58917	95.4787	88834366	
4	ARS-BFGL-NGS-78641	95.53399	88906864	
4	UA-IFASA-2769	95.58461	88973247	
4	ARS-BFGL-NGS-32488	95.67852	89096390	
4	BTB-00879812	95.79073	89243529	
4	BTA-58931-no-rs	95.80791	89266056	
4	BTB-00880226	95.8336	89299743	
4	ARS-BFGL-NGS-26218	95.86684	89343321	
4	BTA-22993-no-rs	95.89517	89380482	
4	ARS-BFGL-NGS-26522	95.91236	89403027	
4	BTA-22996-no-rs	95.93788	89436482	
4	BTB-01323560	95.9783	89470738	
4	Hapmap51964-BTA-100658	96.31772	89568067	
4	Hapmap56169-rs29017544	96.52721	89628134	
4	BTB-01323835	96.80855	89708810	
4	ARS-BFGL-NGS-55428	96.93367	89744688	
4	BTB-01323946	96.96	89793880	
4	BTB-01323949	96.96	89816176	
4	BTB-01759027	96.96	89850655	
4	BTA-119205-no-rs	96.96	89879613	
4	BTA-122943-no-rs	96.96	89921990	
4	BTB-01591267	96.96	89969381	
4	ARS-BFGL-NGS-27273	96.97379	90056905	
4	Hapmap34047-BES11_Contig337_1158		97.12765	90104123
4	Hapmap50910-BTA-18270	97.68539	90275283	
4	ARS-BFGL-NGS-95211	97.81319	90314494	
4	BTB-01312850	98.28972	90502505	
4	ARS-BFGL-NGS-106738	98.32647	90565448	
4	BTB-01312780	98.34267	90593176	
4	Hapmap48685-BTA-21347	98.38944	90673284	
4	BTB-01312713	98.40685	90703088	
4	Hapmap32385-BTA-161252	98.42208	90729174	
4	Hapmap61073-rs29024400	98.46432	90801523	
4	BTB-01312667	98.46817	90808106	
4	Hapmap50622-BTA-21349	98.47553	90820722	
4	BTB-02085810	98.49103	90847252	
4	BTA-16491-no-rs	98.53302	90919168	
4	BTA-109007-no-rs	98.61028	91051469	
4	ARS-BFGL-NGS-114354	98.62718	91080419	
4	BTB-01450748	98.65472	91127591	
4	Hapmap54863-rs29015630	98.66976	91153339	
4	BTB-01845975	98.69126	91190158	

4	Hapmap54638-rs29022155	98.7131	91227550	
4	BTB-01707050	98.78611	91352584	
4	BTB-01707017	98.80328	91381987	
4	BTA-11696-no-rs	98.82397	91417417	
4	ARS-BFGL-NGS-40883	98.8473	91457379	
4	ARS-BFGL-NGS-2409	98.87153	91498875	
4	BTB-00202348	98.9063	91558419	
4	BTB-00202376	98.92932	91597847	
4	Hapmap23939-BTA-142377	98.95993	91630220	
4	ARS-BFGL-NGS-11480	99.15773	91770132	
4	ARS-BFGL-NGS-109045	99.30505	91874324	
4	BTB-02013962	99.34132	91899978	
4	Hapmap44010-BTA-115749	99.4137	91951169	
4	Hapmap42822-BTA-115746	99.47388	92006297	
4	BTB-02000619	99.49685	92027885	
4	ARS-BFGL-NGS-113124	99.525	92054359	
4	ARS-BFGL-NGS-12375	99.57249	92099005	
4	ARS-BFGL-NGS-118100	99.6182	92141993	
4	BTB-00201719	99.65513	92176712	
4	BTB-00201722	99.6814	92201419	
4	Hapmap58049-rs29013711	99.71733	92235197	
4	BTB-00201779	99.7455	92261682	
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4	Hapmap47201-BTA-121648	99.82003	92331760	
4	BTB-00202149	99.85477	92364428	
4	BTB-00202180	99.92992	92436001	
4	BTB-00202195	99.97527	92479695	
4	BTB-00202224	100.016	92518922	
4	BTB-01295144	100.0555	92557035	
4	ARS-BFGL-NGS-94823	100.0883	92588608	
4	ARS-BFGL-NGS-114724	100.1309	92629602	
4	BTB-01295203	100.16	92678128	
4	Hapmap32136-BTA-160383	100.1614	92705191	
4	Hapmap49518-BTA-19021	100.1654	92742789	
4	ARS-BFGL-NGS-74821	100.1677	92765126	
4	BTB-01295275	100.1709	92795803	
4	BTB-01295280	100.1738	92822666	
4	Hapmap34400-BES9_Contig569_627	100.1882	92960306	
4	Hapmap41207-BTA-22424	100.1941	93016725	
4	ARS-BFGL-NGS-30397	100.1985	93058106	
4	ARS-BFGL-NGS-101028	100.2146	93211337	
4	ARS-BFGL-NGS-59298	100.2195	93257549	
4	ARS-BFGL-NGS-34894	100.2226	93287422	
4	ARS-BFGL-NGS-22270	100.2253	93313430	
4	ARS-BFGL-NGS-89108	100.2343	93398396	
4	BTB-00203359	100.24	93489894	
4	Hapmap40190-BTA-71658	100.24	93516494	
4	ARS-BFGL-NGS-75789	100.24	93562599	
4	Hapmap46719-BTA-71648	100.24	93622892	
4	ARS-BFGL-NGS-29534	100.24	93644011	
4	ARS-BFGL-NGS-110883	100.24	93685544	
4	ARS-BFGL-NGS-55655	100.24	93709495	
4	Hapmap31548-BTA-71641	100.2574	93739544	
4	ARS-BFGL-NGS-23095	100.2826	93769513	
4	BTB-00202937	100.3323	93828702	
4	ARS-BFGL-NGS-95926	100.3689	93872285	
4	BTB-00202925	100.3904	93897814	
4	ARS-BFGL-NGS-102642	100.531	94065239	
4	BTA-71636-no-rs	100.548	94085456	

4	BTA-71635-no-rs	100.5729	94115101	
4	Hapmap40578-BTA-71629	100.605	94153292	
4	ARS-USMARC-Parent-DQ485413-no-rs	100.6242		94176209
4	Hapmap33892-BES6_Contig314_677	100.6242		94176209
4	Hapmap25269-BTA-142380	100.6509	94207945	
4	ARS-BFGL-NGS-110997	100.6669	94226966	
4	ARS-BFGL-NGS-98418	100.7063	94273917	
4	BTB-00202623	100.7332	94305981	
4	BTB-00202516	100.7555	94332426	
4	BTB-00202549	100.7749	94355557	
4	ARS-BFGL-NGS-1781	100.795	94379469	
4	ARS-BFGL-NGS-66456	100.8148	94403013	
4	ARS-BFGL-NGS-115061	100.8701	94468924	
4	Hapmap57853-rs29019570	100.8962	94499928	
4	ARS-BFGL-NGS-61449	100.9549	94569814	
4	BTB-01685681	101.1147	94760042	
4	BTB-01700995	101.1849	94843636	
4	BTA-71660-no-rs	101.2342	94902406	
4	BTA-71659-no-rs	101.253	94924747	
4	BTB-00203399	101.2737	94949328	
4	BTB-00203384	101.2936	94973039	
4	BTB-00203494	101.3531	95043917	
4	UA-IFASA-7564	101.3748	95069722	
4	ARS-BFGL-NGS-17969	101.4342	95140408	
4	Hapmap49884-BTA-121649	101.4534	95163344	
4	BTB-01502164	101.5604	95309262	
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4	ARS-BFGL-NGS-16539	101.5964	95359641	
4	BTB-00203567	101.6174	95388890	
4	BTB-00203584	101.6365	95415564	
4	BTA-71665-no-rs	101.6569	95444050	
4	BTA-71670-no-rs	101.6723	95465677	
4	Hapmap31115-BTA-142396	101.7016	95506576	
4	ARS-BFGL-NGS-32192	101.7172	95528274	
4	ARS-BFGL-NGS-115390	101.7695	95601434	
4	Hapmap48060-BTA-71676	101.8012	95645699	
4	ARS-BFGL-NGS-101101	101.8211	95673375	
4	ARS-BFGL-NGS-95268	101.8405	95700526	
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4	UA-IFASA-8046	102.0799	96034920	
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4	ARS-BFGL-NGS-104016	102.154	96138289	
4	ARS-BFGL-NGS-31992	102.1885	96186264	
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4	ARS-BFGL-NGS-25615	102.258	96282870	
4	Hapmap41073-BTA-71719	102.2765	96308638	
4	BTA-71716-no-rs	102.35	96410729	
4	Hapmap58854-rs29023486	102.3682	96436124	
4	BTB-00204531	102.4048	96486926	
4	BTA-71714-no-rs	102.4357	96529890	
4	Hapmap52502-rs29022385	102.4509	96551087	
4	ARS-BFGL-NGS-104149	102.4725	96581019	
4	Hapmap47385-BTA-71710	102.4898	96605156	
4	ARS-BFGL-NGS-112856	102.5089	96631679	
4	UA-IFASA-9287	102.5301	96661114	
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4	ARS-BFGL-NGS-22905	102.5787	96728719	
4	ARS-BFGL-NGS-95780	102.5975	96754893	
4	ARS-BFGL-NGS-32704	102.6087	96770424	

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4	ARS-BFGL-NGS-37346	102.7266	96934320	
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4	ARS-BFGL-NGS-103036	102.8114	97052195	
4	ARS-BFGL-NGS-13008	102.851	97107254	
4	ARS-BFGL-NGS-23026	102.8666	97128968	
4	ARS-BFGL-NGS-29465	102.9072	97185364	
4	ARS-BFGL-NGS-115771	102.93	97279294	
4	Hapmap50765-BTA-71773	102.973	97392045	
4	Hapmap50564-BTA-110789	103.0257	97507836	
4	ARS-BFGL-NGS-109511	103.143	97765429	
4	ARS-BFGL-NGS-12738	103.1734	97832127	
4	BTA-71816-no-rs	103.221	97936747	
4	BTA-71813-no-rs	103.2576	98016975	
4	ARS-BFGL-NGS-27902	103.2777	98061156	
4	Hapmap50074-BTA-71803	103.3484	98216413	
4	Hapmap52549-rs29027276	103.435	98406580	
4	ARS-BFGL-NGS-112658	103.4716	98486908	
4	Hapmap41736-BTA-104096	103.48	98518846	
4	ARS-BFGL-NGS-23661	103.48	98574422	
4	ARS-BFGL-NGS-38990	103.5696	98938593	
4	ARS-BFGL-NGS-77010	103.6099	99082349	
4	ARS-BFGL-NGS-112013	103.6176	99110090	
4	ARS-BFGL-NGS-91439	103.6936	99381115	
4	Hapmap60639-rs29020598	103.7091	99436702	
4	Hapmap58149-rs29020595	103.7173	99465816	
4	BTA-22976-no-rs	103.7277	99503031	
4	BTA-22968-no-rs	103.7387	99542142	
4	ARS-BFGL-NGS-1614	103.7477	99574406	
4	Hapmap43664-BTA-71842	103.7649	99635737	
4	BTA-71843-no-rs	103.791	99662527	
4	ARS-BFGL-NGS-2354	103.8611	99691481	
4	ARS-BFGL-NGS-100449	103.9532	99729470	
4	Hapmap38979-BTA-71851	104.02	99757044	
4	BTA-99928-no-rs	104.4109	99970944	
4	ARS-BFGL-NGS-14075	104.4342	99992606	
4	Hapmap41710-BTA-99927	104.5169	100069848	
4	Hapmap47083-BTA-71984	104.6386	100183472	
4	ARS-BFGL-NGS-95671	104.7526	100289958	
4	ARS-BFGL-NGS-12793	104.8101	100325209	
4	ARS-BFGL-NGS-27298	105.0069	100436744	
4	ARS-BFGL-NGS-2253	105.0729	100474163	
4	Hapmap36297-SCAFFOLD20555_14349	105.1136	100497231	
4	BTA-109842-no-rs	105.213	100553565	
4	ARS-BFGL-NGS-15146	105.2776	100590141	
4	BTA-71817-no-rs	105.3218	100615221	
4	Hapmap48448-BTA-71823	105.4079	100663967	
4	ARS-BFGL-NGS-118823	105.4821	100706047	
4	BTA-71832-no-rs	105.5544	100746987	
4	ARS-BFGL-NGS-111916	105.6643	100809275	
4	ARS-BFGL-NGS-110051	105.7309	100847049	
4	BTA-71976-no-rs	105.7925	100881943	
4	BTA-71972-no-rs	105.8714	100926620	
4	ARS-BFGL-NGS-51016	105.913	100950237	
4	Hapmap59107-rs29018244	105.9892	101072503	
4	BTA-03464-rs29011228	106.0483	101173402	
4	ARS-BFGL-NGS-94541	106.1193	101294744	



4	BTA-71953-no-rs	106.1537	101353476
4	ARS-BFGL-NGS-107258	106.2095	101448766
4	BTA-71952-no-rs	106.2514	101520452
4	ARS-BFGL-NGS-84112	106.2757	101561940
4	BTA-71941-no-rs	106.289	101584678
4	Hapmap39285-BTA-71932	106.3435	101677815
4	ARS-BFGL-NGS-17060	106.3629	101710919
4	ARS-BFGL-NGS-7597	106.3907	101758469
4	ARS-BFGL-NGS-107748	106.4096	101790675
4	Hapmap41623-BTA-71924	106.4473	101855159
4	Hapmap50076-BTA-71917	106.4761	101904386
4	ARS-BFGL-NGS-7736	106.5263	101990180
4	Hapmap49721-BTA-71904	106.5506	102031649
4	Hapmap38246-BTA-71900	106.5809	102083448
4	Hapmap52823-rs29010271	106.6075	102128919
4	ARS-BFGL-NGS-41399	106.6255	102159647
4	ARS-BFGL-NGS-36185	106.6406	102185505
4	ARS-BFGL-NGS-31561	106.7858	102433510
4	ARS-BFGL-NGS-28579	106.8186	102489625
4	ARS-BFGL-NGS-25648	106.8366	102520286
4	Hapmap51374-BTA-104594	106.8657	102570116
4	Hapmap30853-BTA-153737	106.88	102594492
4	Hapmap49935-BTA-25519	107.0455	102877319
4	BTA-25518-no-rs	107.0673	102914493
4	BTA-25515-no-rs	107.1013	102972671
4	BTA-25514-no-rs	107.1354	103030945
4	ARS-BFGL-NGS-92785	107.1478	103051975
4	ARS-BFGL-NGS-116722	107.1753	103100577
4	ARS-BFGL-NGS-4050	107.2022	103154723
4	ARS-BFGL-NGS-115811	107.2219	103194290
4	ARS-BFGL-NGS-113196	107.2406	103231866
4	ARS-BFGL-NGS-42985	107.2509	103252542
4	BTA-72175-no-rs	107.2684	103287645
4	ARS-BFGL-NGS-73232	107.2921	103335380
4	ARS-BFGL-NGS-70987	107.3099	103371033
4	ARS-BFGL-NGS-119820	107.3224	103396245
4	ARS-BFGL-NGS-81546	107.3328	103417042
4	BTA-85913-no-rs	107.3662	103484220
4	BTA-72155-no-rs	107.4163	103584901
4	Hapmap46021-BTA-72146	107.5129	103779073
4	Hapmap60483-rs29010048	107.52	103852324
4	ARS-BFGL-NGS-109036	107.52	103884199
4	ARS-BFGL-NGS-32175	107.52	103918869
4	ARS-BFGL-NGS-117579	107.52	103955958
4	Hapmap51625-BTA-71992	107.52	103980363
4	ARS-BFGL-NGS-105153	107.5504	104037612
4	Hapmap32072-BTA-142491	107.6003	104117505
4	Hapmap49722-BTA-72000	107.6503	104197508
4	ARS-BFGL-NGS-115725	107.6686	104226807
4	ARS-BFGL-NGS-110903	107.6819	104248050
4	ARS-BFGL-NGS-58851	107.7031	104281982
4	Hapmap60027-rs29013402	107.7211	104310808
4	ARS-BFGL-NGS-109861	107.7804	104405667
4	ARS-BFGL-NGS-24686	107.7941	104427527
4	ARS-BFGL-NGS-111427	107.8529	104521487
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4	ARS-BFGL-NGS-32907	107.8876	104577143
4	ARS-BFGL-NGS-106683	108.0164	104783041
4	ARS-BFGL-NGS-110705	108.0376	104816971

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4	ARS-BFGL-NGS-21106	108.1457	104990000	
4	ARS-BFGL-NGS-40249	108.258	105169576	
4	ARS-BFGL-NGS-42804	108.2756	105197809	
4	ARS-BFGL-NGS-111574	108.3021	105240129	
4	ARS-BFGL-NGS-117297	108.3261	105278504	
4	ARS-BFGL-NGS-118330	108.3549	105324609	
4	ARS-BFGL-NGS-15480	109.14	105392433	
4	ARS-BFGL-NGS-36520	109.14	105502544	
4	BTA-72114-no-rs	109.14	105537521	
4	Hapmap23591-BTA-142567	109.14	105557665	
4	BTA-72125-no-rs	109.14	105579786	
4	ARS-BFGL-NGS-74635	109.1439	105738302	
4	Hapmap31080-BTA-128722	109.1841	105794912	
4	ARS-BFGL-NGS-5899	109.315	105978930	
4	ARS-BFGL-NGS-76596	109.3435	106018897	
4	ARS-BFGL-NGS-103970	109.4673	106193024	
4	ARS-BFGL-NGS-72134	109.5106	106253833	
4	ARS-BFGL-NGS-3479	109.5265	106276208	
4	Hapmap52792-rs29022854	109.559	106321900	
4	Hapmap43665-BTA-72047	109.6028	106383456	
4	ARS-BFGL-NGS-104647	109.6174	106404042	
4	ARS-BFGL-NGS-70832	109.724	106553940	
4	ARS-BFGL-NGS-100278	109.75	106590504	
4	ARS-BFGL-NGS-54107	109.7808	106633751	
4	ARS-BFGL-NGS-69855	109.9212	106831111	
4	ARS-BFGL-NGS-35219	109.9596	106885171	
4	Hapmap35759-SCAFFOLD161053_2988		109.9882	106925296
4	Hapmap47387-BTA-72195	110.0129	106960073	
4	ARS-BFGL-NGS-4608	110.0463	107007048	
4	Hapmap51932-BTA-119886	110.065	107033297	
4	ARS-BFGL-NGS-35727	110.0843	107060437	
4	Hapmap49723-BTA-72140	110.1299	107124617	
4	ARS-BFGL-NGS-100841	110.2219	107253901	
4	ARS-BFGL-NGS-76188	110.2628	107311433	
4	ARS-BFGL-NGS-28655	110.293	107353929	
4	BTA-72136-no-rs	110.3083	107375437	
4	ARS-BFGL-NGS-114935	110.3376	107416505	
4	BTA-72073-no-rs	110.3816	107478425	
4	ARS-BFGL-NGS-112115	110.4047	107510845	
4	ARS-BFGL-NGS-115890	110.4261	107540967	
4	ARS-BFGL-NGS-113040	110.4844	107622906	
4	Hapmap48869-BTA-72045	110.5165	107668131	
4	ARS-BFGL-NGS-11642	110.5399	107700920	
4	ARS-BFGL-NGS-87361	110.5622	107732347	
4	ARS-BFGL-NGS-40926	110.6152	107806828	
4	ARS-BFGL-NGS-86901	110.6362	107836355	
4	BTA-72091-no-rs	110.6515	107857857	
4	BTA-90241-no-rs	110.7421	107985246	
4	ARS-BFGL-NGS-39879	110.7587	108008548	
4	Hapmap34662-BES8_Contig470_1089		110.79	108052528
4	ARS-BFGL-NGS-91867	110.8068	108076254	
4	ARS-BFGL-NGS-35619	110.8384	108120633	
4	BTA-72108-no-rs	110.8726	108168742	
4	BTA-72199-no-rs	110.9755	108313356	
4	ARS-BFGL-NGS-95772	111.0362	108398755	
4	ARS-BFGL-NGS-51989	111.0698	108446002	
4	Hapmap54943-rs29012215	111.0988	108486695	

4	ARS-BFGL-NGS-33842	111.1255	108524327	
4	ARS-BFGL-NGS-106898	111.1582	108570183	
4	ARS-BFGL-NGS-45265	111.1852	108608248	
4	ARS-BFGL-NGS-6837	111.2571	108709290	
4	BTA-72227-no-rs	111.2891	108754288	
4	ARS-BFGL-NGS-73118	111.3123	108786955	
4	ARS-BFGL-NGS-30190	111.3464	108834886	
4	ARS-BFGL-NGS-119262	111.3698	108867683	
4	ARS-BFGL-NGS-27142	111.396	108904498	
4	BTA-72244-no-rs	111.4131	108928668	
4	BTA-72255-no-rs	111.4527	108974924	
4	Hapmap39964-BTA-104515	111.7727	109292250	
4	BTA-104512-no-rs	111.7982	109317580	
4	ARS-BFGL-NGS-38080	111.8235	109342669	
4	ARS-BFGL-NGS-22840	111.9381	109456341	
4	BTA-72277-no-rs	112.1355	109652133	
4	ARS-BFGL-NGS-1972	112.3731	109887827	
4	ARS-BFGL-NGS-16951	112.6783	110176402	
4	BTB-00207638	112.8331	110317802	
4	Hapmap48062-BTA-72409	112.8737	110354858	
4	ARS-BFGL-NGS-4091	112.9459	110420705	
4	Hapmap60331-rs29025506	113.172	110627141	
4	Hapmap41345-BTA-72417	113.2174	110668558	
4	BTB-00208066	113.2958	110740163	
4	Hapmap54547-rs29012198	113.3358	110776624	
4	BTB-00208231	113.3688	110806820	
4	UA-IFASA-2147	113.4044	110839255	
4	Hapmap60610-rs29026521	113.4536	110884207	
4	BTB-00208407	113.4782	110906681	
4	BTB-00208358	113.5023	110928698	
4	ARS-BFGL-NGS-63988	113.6323	111047303	
4	Hapmap34657-BES3_Contig465_3267	113.6844	111094913	
4	Hapmap41946-BTA-72562	113.7278	111140851	
4	ARS-BFGL-NGS-2057	113.7652	111183448	
4	ARS-BFGL-NGS-7294	113.7842	111205177	
4	BTB-00211171	113.8196	111245497	
4	Hapmap60085-rs29027425	113.8479	111277799	
4	Hapmap42301-BTA-72566	113.9278	111368926	
4	Hapmap33207-BTA-142657	113.9668	111413395	
4	BTA-96211-no-rs	114.2412	111521130	
4	Hapmap50170-BTA-96224	114.2763	111549504	
4	Hapmap52487-rs29009830	114.3266	111590159	
4	BTB-01472713	114.4532	111692622	
4	Hapmap34480-BES11_Contig223_1325	114.5174	111744558	
4	BTB-01644763	114.572	111788712	
4	ARS-BFGL-NGS-5944	114.6205	111827935	
4	BTB-01367046	114.6645	111863574	
4	BTB-01367029	114.6932	111886747	
4	BTB-01366974	114.7298	111916386	
4	Hapmap34027-BES1_Contig459_655	114.7438	111938821	
4	BTB-01366960	114.8413	111964621	
4	Hapmap55493-rs29026602	114.9375	111990062	
4	BTB-01366853	115.0276	112013902	
4	Hapmap34326-BES3_Contig393_647	115.1561	112047900	
4	BTB-01163345	115.2243	112080616	
4	Hapmap31474-BTA-152740	115.365	112164314	
4	ARS-BFGL-NGS-33889	115.3981	112184024	
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4	BTA-08354-no-rs	115.68	112407963	
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4	ARS-BFGL-NGS-61198	115.68	112474006	
4	Hapmap24643-BTA-123363	115.7064	112529847	
4	ARS-BFGL-NGS-38659	115.7662	112594246	
4	ARS-BFGL-NGS-74516	115.7957	112626112	
4	Hapmap59891-rs29026543	115.8152	112647052	
4	ARS-BFGL-NGS-19306	115.8654	112701154	
4	Hapmap25272-BTA-142660	115.9167	112756381	
4	ARS-BFGL-NGS-33589	115.9711	112815065	
4	BTA-72569-no-rs	116.0825	112934990	
4	ARS-BFGL-NGS-46354	116.0915	112944762	
4	ARS-BFGL-NGS-118333	116.1292	112985362	
4	Hapmap57291-ss46526771	116.1645	113021942	
4	BTA-72550-no-rs	116.2063	113053683	
4	Hapmap49724-BTA-72549	116.2402	113079474	
4	ARS-BFGL-NGS-97171	116.2843	113112933	
4	ARS-BFGL-NGS-83962	116.3288	113146722	
4	ARS-BFGL-NGS-43056	116.3797	113185416	
4	ARS-BFGL-NGS-41071	116.4747	113257564	
4	Hapmap39428-BTA-72555	116.5357	113303894	
4	ARS-BFGL-NGS-103059	116.6237	113370783	
4	ARS-BFGL-NGS-19833	116.684	113416523	
4	ARS-BFGL-NGS-60533	116.7399	113459011	
4	ARS-BFGL-NGS-3908	116.8019	113506092	
4	ARS-BFGL-NGS-113048	116.8369	113532717	
4	ARS-BFGL-NGS-80140	116.8673	113555764	
4	Hapmap47085-BTA-72511	116.9057	113584923	
4	ARS-BFGL-NGS-112056	116.9449	113614764	
4	Hapmap33896-BES4_Contig479_1391		116.9814	113642470
4	Hapmap51569-BTA-17751	117.7068	114193481	
4	ARS-BFGL-NGS-103689	117.8219	114280862	
4	ARS-BFGL-NGS-119857	117.8503	114302482	
4	ARS-BFGL-NGS-29581	117.8822	114326665	
4	ARS-BFGL-NGS-43533	117.9141	114350936	
4	ARS-BFGL-NGS-25593	117.9453	114374609	
4	ARS-BFGL-NGS-116908	117.9744	114396713	
4	ARS-BFGL-NGS-100288	118.0198	114431179	
4	ARS-BFGL-NGS-113492	118.1342	114518137	
4	ARS-BFGL-NGS-3026	118.1638	114540598	
4	ARS-BFGL-NGS-31139	118.1972	114565961	
4	Hapmap38123-BTA-72477	118.2463	114603252	
4	ARS-BFGL-NGS-16030	118.2948	114640077	
4	BTB-00213370	118.3369	114688732	
4	BTB-00213426	118.3447	114713614	
4	ARS-BFGL-NGS-100194	118.3544	114744308	
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4	ARS-BFGL-NGS-119660	118.3876	114850060	
4	Hapmap56914-rs29020849	118.404	114902164	
4	ARS-BFGL-NGS-53034	118.4271	114975718	
4	Hapmap41624-BTA-72459	118.4383	115011249	
4	ARS-BFGL-NGS-30343	118.4499	115048190	
4	ARS-BFGL-NGS-52807	118.4607	115082589	
4	ARS-BFGL-NGS-10207	118.4784	115138746	
4	ARS-BFGL-NGS-22851	118.4883	115170139	
4	ARS-BFGL-NGS-35564	118.4989	115203840	

4	BTB-00210179	118.5574	115371486	
4	Hapmap47710-BTA-72578	118.6005	115479592	
4	Hapmap40223-BTA-72576	118.612	115508391	
4	Hapmap47177-BTA-111089	118.6313	115556748	
4	ARS-BFGL-NGS-23036	118.641	115581055	
4	BTB-00692290	118.66	115628672	
4	BTA-42720-no-rs	118.6829	115686106	
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4	ARS-BFGL-NGS-70849	118.7048	115741073	
4	ARS-BFGL-NGS-95252	118.7073	115747463	
4	BTB-00691811	118.7183	115775029	
4	ARS-BFGL-NGS-15767	118.7662	115895057	
4	BTB-01618208	118.7768	115921716	
4	ARS-BFGL-NGS-73498	118.7865	115946071	
4	ARS-BFGL-NGS-5125	118.8136	116013931	
4	Hapmap38667-BTA-28216	118.8246	116041596	
4	Hapmap57046-rs29017141	118.8413	116083500	
4	Hapmap40650-BTA-112268	118.86	116130179	
4	ARS-BFGL-NGS-119744	118.8806	116181827	
4	BTA-97928-no-rs	118.8915	116209319	
4	BTB-01493530	118.9247	116292574	
4	BTB-01493550	118.9341	116316199	
4	ARS-BFGL-NGS-106446	118.9498	116355356	
4	Hapmap28815-BTA-155553	119.0567	116390964	
4	Hapmap52979-rs29022837	119.1361	116416982	
4	BTA-109747-no-rs	119.1989	116437584	
4	Hapmap60162-rs29015028	119.3444	116485311	
4	ARS-BFGL-NGS-26072	119.5901	116565875	
4	Hapmap24004-BTA-151710	119.7718	116625459	
4	BTA-98685-no-rs	119.8738	116666797	
4	Hapmap26203-BTA-160775	119.904	116693828	
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4	BTB-01386596	120.1745	116936563	
4	Hapmap35944-SCAFFOLD165677_14451	120.2111	116969378	
4	Hapmap47156-BTA-102488	120.2414	116996524	
4	BTB-01544087	120.2759	117027527	
4	BTB-01544170	120.3421	117086858	
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4	ARS-BFGL-NGS-30342	120.4035	117141918	
4	ARS-BFGL-NGS-80182	120.4354	117170573	
4	ARS-BFGL-NGS-20970	120.4657	117197768	
4	BTB-01706569	120.494	117223111	
4	ARS-BFGL-NGS-22183	120.519	117245533	
4	ARS-BFGL-NGS-559	120.5711	117292302	
4	ARS-BFGL-NGS-84093	120.6238	117339600	
4	BTB-00212876	120.65	117412387	
4	ARS-BFGL-NGS-101811	120.65	117435804	
4	Hapmap54131-rs29019697	120.65	117523938	
4	ARS-BFGL-NGS-27061	120.65	117545292	
4	ARS-BFGL-NGS-118564	120.65	117571480	
4	BTB-00212554	120.66	117601612	
4	Hapmap57921-rs29025578	120.6764	117630906	
4	ARS-BFGL-NGS-20980	120.7243	117716299	
4	Hapmap41947-BTA-72630	120.7478	117758136	
4	ARS-BFGL-NGS-83291	120.7889	117831202	
4	BTA-98250-no-rs	120.8351	117913533	
4	ARS-BFGL-NGS-112113	120.847	117934757	
4	ARS-BFGL-NGS-107713	120.8606	117955439	
4	ARS-BFGL-NGS-101246	120.9017	118015333	

4	BTB-01147791	120.922	118044840	
4	BTA-98220-no-rs	120.9421	118074075	
4	ARS-BFGL-NGS-83683	120.9569	118095592	
4	ARS-USMARC-Parent-DQ647188-rs29011099	121.0052	118165814	
4	ARS-BFGL-NGS-17824	121.0076	118169220	
4	BTB-01148141	121.0611	118247074	
4	ARS-BFGL-NGS-67251	121.0833	118281321	
4	Hapmap46738-BTA-98261	121.1028	118321346	
4	UA-IFASA-6990	121.1174	118351287	
4	ARS-BFGL-NGS-36393	121.1295	118376145	
4	ARS-BFGL-NGS-32891	121.1408	118399391	
4	ARS-BFGL-NGS-68153	121.1729	118465153	
4	ARS-BFGL-NGS-75679	121.2138	118549162	
4	Hapmap35657-SCAFFOLD15929_9264	121.2429	118608842	
4	BTB-00213771	121.2542	118631977	
4	ARS-BFGL-NGS-105018	121.2659	118655986	
4	Hapmap52573-rs29023352	121.276	118676822	
4	ARS-BFGL-NGS-118785	121.2961	118717994	
4	ARS-BFGL-NGS-17799	121.3719	118873541	
4	ARS-BFGL-NGS-107119	121.4016	118934474	
4	BTB-01418542	121.4201	118972436	
4	BTB-01418405	121.4537	119041474	
4	BTA-09461-rs29025622	121.4692	119073217	
4	ARS-BFGL-NGS-38992	121.5089	119154746	
4	ARS-BFGL-NGS-15678	121.5207	119178973	
4	ARS-BFGL-NGS-34474	121.5385	119215447	
4	ARS-BFGL-NGS-114119	121.5643	119268300	
4	ARS-BFGL-NGS-102091	121.577	119294331	
4	ARS-BFGL-NGS-111133	121.5998	119341142	
4	ARS-BFGL-NGS-8846	121.6117	119365573	
4	ARS-BFGL-NGS-89379	121.6321	119407450	
4	BTB-00213455	121.6466	119437182	
4	ARS-BFGL-NGS-11866	121.6625	119469804	
4	ARS-BFGL-NGS-27615	121.6892	119524742	
4	BTB-00164261	121.7027	119552457	
4	ARS-BFGL-NGS-112019	121.7133	119574085	
4	ARS-BFGL-NGS-33132	121.7345	119617605	
4	ARS-BFGL-NGS-163	121.75	119649355	
4	ARS-BFGL-NGS-21976	121.761	119671976	
4	ARS-BFGL-NGS-34604	121.7711	119692780	
4	BTB-00502815	121.7878	119726978	
4	ARS-BFGL-NGS-74447	121.8007	119753498	
4	ARS-BFGL-NGS-112401	121.8296	119812699	
4	ARS-BFGL-NGS-41393	121.8459	119846253	
4	ARS-BFGL-NGS-111175	121.8631	119881451	
4	ARS-BFGL-NGS-19373	121.8842	119924805	
4	ARS-BFGL-NGS-111407	121.9019	119961092	
4	ARS-BFGL-NGS-12243	121.9135	119984992	
4	ARS-BFGL-NGS-69250	121.9613	120082962	
4	ARS-BFGL-NGS-111974	121.9858	120133228	
4	ARS-BFGL-NGS-85925	122.0319	120227878	
4	BTA-122318-no-rs	122.0431	120250887	
4	ARS-BFGL-NGS-14567	122.0705	120307114	
4	ARS-BFGL-NGS-77055	122.0847	120336279	
4	ARS-BFGL-NGS-35527	122.1212	120412745	
4	ARS-BFGL-NGS-117596	122.1427	120458595	
4	ARS-BFGL-NGS-31650	122.1576	120490292	
4	ARS-BFGL-NGS-116168	122.1774	120532487	
4	Hapmap30001-BTA-142716	122.204	120589321	

4	ARS-BFGL-NGS-33408	122.2162	120615269	
4	ARS-BFGL-NGS-24124	122.2287	120641946	
5	BTB-01498887	0.03055036	97111	
5	Hapmap41705-BTA-98456	0.06716439	132173	
5	ARS-BFGL-NGS-26008	0.0998593	163482	
5	BTB-01498763	0.1231568	185792	
5	BTA-88485-no-rs	0.573706	617243	
5	BTA-16278-no-rs	0.6095912	651607	
5	Hapmap39548-BTA-16277	0.6307647	671883	
5	BTB-01942045	0.8086981	842274	
5	ARS-BFGL-NGS-40261	0.8318985	864491	
5	BTB-01659413	0.8541811	885829	
5	BTA-111224-no-rs	0.8879108	918129	
5	Hapmap42421-BTA-109705	0.9168589	945850	
5	ARS-BFGL-NGS-39170	0.9409397	968910	
5	BTB-01659437	1.001461	1026866	
5	BTB-01735789	1.025433	1049822	
5	BTB-01735758	1.064477	1087211	
5	ARS-BFGL-NGS-26978	1.132443	1152296	
5	BTB-01089320	1.175791	1193806	
5	BTB-01089317	1.249349	1223039	
5	BTB-01089304	1.462139	1279065	
5	BTA-16821-no-rs	1.550475	1302323	
5	ARS-BFGL-NGS-117624	1.693388	1339951	
5	BTB-02090415	1.817312	1372579	
5	BTB-01089169	1.980766	1415615	
5	BTB-01089041	2.166271	1464457	
5	BTB-01088991	2.313093	1503114	
5	ARS-BFGL-NGS-20138	2.579284	1573200	
5	Hapmap31183-BTA-159592	2.684214	1600827	
5	ARS-BFGL-NGS-109950	2.814453	1635118	
5	ARS-BFGL-NGS-104371	2.973106	1676890	
5	BTA-118327-no-rs	3.070394	1702505	
5	BTB-01252613	3.200014	1736633	
5	ARS-BFGL-NGS-22578	3.307583	1764955	
5	BTB-01252633	3.404282	1790415	
5	BTB-01630143	3.521547	1821290	
5	Hapmap34360-BES2_Contig202_1418		3.647392	1854424
5	ARS-BFGL-NGS-44307	3.782835	1890085	
5	BTB-01927911	3.868843	1912730	
5	Hapmap39806-BTA-114315	3.977418	1941317	
5	Hapmap31056-BTA-114319	4.065681	1964556	
5	Hapmap59394-rs29023442	4.146101	1985730	
5	ARS-BFGL-NGS-64100	4.303729	2027232	
5	BTB-01539669	4.347878	2038856	
5	Hapmap39301-BTA-101948	4.480237	2073705	
5	BTA-101936-no-rs	4.574839	2098613	
5	BTB-01539464	4.690684	2129114	
5	BTB-01539416	4.799278	2157706	
5	BTB-02075308	4.93632	2193788	
5	BTB-00214224	5.09666	2236004	
5	ARS-BFGL-NGS-111829	5.260763	2279211	
5	BTB-01421314	5.369733	2307902	
5	BTB-01421204	5.52227	2355951	
5	BTA-91682-no-rs	5.66779	2386378	
5	Hapmap43095-BTA-91680	5.962213	2463897	
5	BTB-02053074	6.164847	2517249	
5	BTA-74225-no-rs	6.427252	2586338	
5	BTB-01817768	6.63787	2641792	

5	BTB-00214261	6.757312	2673240	
5	BTB-00214293	6.842897	2695774	
5	BTB-00214502	6.936299	2720366	
5	BTB-00214536	7.068841	2755263	
5	BTA-75452-no-rs	7.409942	2845072	
5	BTB-00214824	7.713571	2925015	
5	BTB-00214881	7.878999	2968571	
5	BTB-01787604	8.00878	3002741	
5	BTB-02076197	8.132623	3035348	
5	ARS-BFGL-NGS-15330	8.276159	3073140	
5	ARS-BFGL-NGS-22097	8.703991	3193766	
5	Hapmap44365-BTA-28169	8.853051	3260057	
5	BTB-01357382	8.900336	3281086	
5	BTB-01357389	8.951758	3303955	
5	Hapmap43826-BTA-28176	9.025397	3336704	
5	BTB-02041628	9.100391	3370056	
5	BTA-26682-no-rs	9.180607	3405730	
5	Hapmap51564-BTA-122844	9.244974	3434356	
5	BTB-01357570	9.333739	3473832	
5	Hapmap53447-rs29026845	9.464219	3531860	
5	BTB-00909851	9.599023	3591811	
5	Hapmap55203-rs29023737	9.719229	3645270	
5	BTB-00909994	9.765415	3665810	
5	BTA-60006-no-rs	9.848126	3702594	
5	BTB-00910022	9.99	3783948	
5	Hapmap48402-BTA-60008	9.99	3823446	
5	Hapmap36248-SCAFFOLD285252_6607	9.99	3900964	
5	BTB-00214944	9.99	3928512	
5	BTB-00214965	9.99	3951565	
5	BTB-00910118	9.99	3981504	
5	Hapmap61058-rs29019196	10.58734	4036881	
5	ARS-BFGL-NGS-19171	10.65984	4078195	
5	BTB-00910380	10.70033	4101269	
5	ARS-BFGL-NGS-116227	10.79765	4156726	
5	ARS-BFGL-NGS-7397	10.89332	4211243	
5	BTB-00215702	10.95138	4244330	
5	Hapmap39974-BTA-119920	11.06587	4309575	
5	BTB-00215584	11.11009	4334771	
5	Hapmap34419-BES4_Contig182_1285	11.14867	4356757	
5	ARS-BFGL-NGS-3503	11.18619	4378140	
5	BTA-72900-no-rs	11.29783	4441759	
5	BTB-00215105	11.35228	4472786	
5	Hapmap44984-BTA-72893	11.40343	4501932	
5	ARS-BFGL-NGS-41385	11.47816	4544521	
5	ARS-BFGL-NGS-107356	11.5717	4597824	
5	BTA-29483-no-rs	11.66667	4651940	
5	BTB-01486702	11.71092	4677157	
5	BTB-01486719	11.74833	4698476	
5	BTB-01486771	11.88216	4774743	
5	BTB-01486812	11.96984	4824708	
5	BTA-85749-no-rs	12.05839	4875167	
5	BTA-21047-no-rs	12.15317	4929181	
5	ARS-BFGL-NGS-2956	12.29939	5012505	
5	Hapmap42304-BTA-73062	12.36967	5049476	
5	Hapmap44197-BTA-113898	12.51565	5086215	
5	ARS-BFGL-NGS-104695	12.65313	5120813	
5	BTB-00216386	13.02399	5214146	
5	BTB-00216290	13.12802	5240327	
5	BTA-73275-no-rs	13.2687	5275732	



5	BTB-00216140	13.44138	5319191	
5	ARS-BFGL-NGS-106198	13.54587	5345488	
5	BTB-00216115	13.66376	5375156	
5	Hapmap50082-BTA-73223	13.76506	5400651	
5	BTA-73200-no-rs	14.06965	5477307	
5	ARS-BFGL-NGS-3594	14.16303	5500808	
5	BTB-00215816	14.3624	5550983	
5	BTB-00215874	14.46829	5577631	
5	BTA-73127-no-rs	14.5785	5605366	
5	BTB-01200617	14.73358	5644397	
5	Hapmap40881-BTA-109195	14.82794	5668143	
5	ARS-BFGL-NGS-35982	14.92845	5693439	
5	ARS-BFGL-NGS-116916	15.1156	5740537	
5	BTB-01793309	15.21689	5766030	
5	Hapmap40041-BTA-109192	15.5777	5856833	
5	BTB-01200493	15.65724	5883594	
5	BTA-109189-no-rs	15.73735	5923591	
5	BTB-01610675	15.97509	6001881	
5	UA-IFASA-4428	16.39047	6123234	
5	Hapmap27170-BTA-142780	16.72224	6220159	
5	BTA-73940-no-rs	16.79761	6242179	
5	Hapmap59616-ss46526976	16.88004	6266261	
5	BTA-73915-no-rs	16.94481	6285184	
5	ARS-BFGL-NGS-8671	17.19189	6357367	
5	Hapmap38248-BTA-73843	17.43832	6462823	
5	BTB-00218064	17.51058	6495010	
5	BTB-00218031	17.58685	6528982	
5	BTB-00217980	17.6359	6550831	
5	Hapmap40368-BTA-73779	17.7886	6618844	
5	BTA-73757-no-rs	17.94722	6689497	
5	Hapmap38523-BTA-73755	17.99679	6711577	
5	BTB-00217740	18.05012	6735328	
5	Hapmap22799-BTA-142770	18.11054	6762240	
5	ARS-BFGL-NGS-36420	18.1653	6786633	
5	Hapmap34651-BES8_Contig410_960		18.22523	6813328
5	BTA-73686-no-rs	18.27532	6835640	
5	BTB-00217507	18.32995	6859970	
5	BTA-73641-no-rs	18.45011	6913492	
5	ARS-BFGL-NGS-97510	18.51434	6942103	
5	ARS-BFGL-NGS-39595	18.59233	6976839	
5	ARS-BFGL-NGS-118379	18.69415	7022191	
5	Hapmap40084-BTA-73602	18.76384	7053234	
5	BTA-74090-no-rs	18.90798	7117436	
5	BTB-00218444	18.97098	7145497	
5	ARS-BFGL-NGS-102015	19.03741	7175086	
5	BTB-01858904	19.15534	7227616	
5	BTB-00216913	19.25322	7271212	
5	BTB-00216812	19.35019	7314405	
5	BTA-73513-no-rs	19.40437	7338536	
5	ARS-BFGL-NGS-39989	19.78522	7525986	
5	ARS-BFGL-NGS-67208	19.84251	7580480	
5	Hapmap54570-rs29010908	19.88993	7625577	
5	ARS-USMARC-Parent-DQ470475-no-rs		19.91671	7651053
5	BTB-01657584	19.94168	7674802	
5	BTA-111136-no-rs	19.9743	7705831	
5	Hapmap54917-rs29023586	20.03304	7733715	
5	BTB-01359804	20.20957	7808480	
5	ARS-BFGL-NGS-57915	20.35487	7870014	
5	BTB-01359812	20.48444	7924892	

5	BTB-01359959	20.63385	7988169
5	BTB-01507839	20.75349	8038841
5	Hapmap44331-BTA-99326	20.81112	8063248
5	BTA-99332-no-rs	20.85886	8083464
5	BTA-99337-no-rs	20.91679	8108001
5	BTA-00140-rs29013304	20.99725	8142075
5	BTB-00220600	21.14363	8204073
5	ARS-BFGL-NGS-32245	21.21078	8232512
5	ARS-BFGL-NGS-42167	21.2924	8267078
5	Hapmap47722-BTA-75026	21.36099	8296128
5	BTA-75037-no-rs	21.42545	8323427
5	ARS-BFGL-NGS-114785	21.53867	8371379
5	BTB-01752331	21.60582	8399818
5	BTB-00220941	21.69122	8435987
5	BTB-00220966	21.78776	8476871
5	BTB-00218546	21.88645	8518671
5	UA-IFASA-4572	21.96	8562667
5	BTA-74150-no-rs	21.96	8583306
5	ARS-BFGL-NGS-69702	21.96	8621147
5	ARS-BFGL-NGS-78236	21.96	8646040
5	ARS-BFGL-NGS-11736	21.96	8683607
5	ARS-BFGL-NGS-109524	21.96	8751248
5	Hapmap50771-BTA-74233	21.96	8772796
5	BTB-00218821	21.96	8807063
5	UA-IFASA-7270	21.96	8849111
5	BTB-00218987	21.96	8893080
5	ARS-BFGL-NGS-28269	21.96	8926782
5	BTB-00219231	21.96	8978484
5	BTB-00219093	21.96	9015235
5	ARS-BFGL-NGS-10677	22.37126	9126222
5	Hapmap48875-BTA-74500	22.51824	9157214
5	BTB-00219569	23.01583	9263262
5	ARS-BFGL-NGS-73619	23.15082	9317851
5	BTB-00219600	23.2161	9344250
5	BTB-00219662	23.28355	9371522
5	BTB-00219664	23.33986	9394294
5	Hapmap44617-BTA-74592	23.39406	9416212
5	BTA-74670-no-rs	23.44676	9437669
5	Hapmap42658-BTA-74674	23.52904	9472727
5	BTA-74684-no-rs	23.59608	9501290
5	ARS-BFGL-NGS-1394	23.70379	9547185
5	Hapmap58252-rs29024363	23.95178	9652848
5	BTA-121674-no-rs	24.12612	9708718
5	BTA-118745-no-rs	24.54353	9806599
5	Hapmap32860-BTA-158424	24.67381	9837147
5	ARS-BFGL-NGS-25358	24.93826	9899160
5	BTB-01253890	25.03662	9922225
5	BTB-01253754	25.15807	9950705
5	ARS-BFGL-NGS-16627	25.4873	10027908
5	BTB-00221620	25.65016	10066097
5	BTA-75232-no-rs	25.81444	10104621
5	BTB-00221495	25.95779	10138236
5	ARS-BFGL-NGS-69509	26.34156	10236503
5	BTB-00222372	26.48554	10278129
5	Hapmap49738-BTA-75486	26.68482	10335741
5	ARS-BFGL-NGS-3679	26.84143	10381017
5	BTA-75479-no-rs	26.93731	10423634
5	Hapmap54948-rs29009927	26.98821	10482135
5	UA-IFASA-4222	27.01335	10511028

5	BTB-01739441	27.08178	10560048	
5	BTA-119598-no-rs	27.38795	10626452	
5	Hapmap60358-rs29018681	27.54625	10660785	
5	BTA-23621-no-rs	27.89042	10735432	
5	ARS-BFGL-NGS-117548	28.03116	10788597	
5	ARS-BFGL-NGS-117126	28.18914	10862100	
5	BTA-22405-no-rs	28.35809	10940707	
5	Hapmap27228-BTA-161652	28.42087	10969920	
5	BTB-01320246	28.53986	11025282	
5	BTB-01320261	28.56	11058587	
5	BTA-75515-no-rs	28.56	11122965	
5	Hapmap55297-rs29017245	28.63011	11158112	
5	BTB-00222540	28.68435	11176710	
5	Hapmap52005-BTA-75510	28.74404	11197174	
5	Hapmap50090-BTA-75536	28.99867	11284482	
5	BTB-00223023	29.0871	11314799	
5	BTB-02029563	29.16733	11342309	
5	BTB-01458467	29.31538	11398812	
5	Hapmap51781-BTA-94983	29.41695	11439750	
5	BTB-00223109	29.47887	11464705	
5	BTB-00223180	29.63256	11526654	
5	ARS-BFGL-NGS-110594	29.94688	11702152	
5	ARS-BFGL-NGS-40481	30.00382	11800467	
5	ARS-BFGL-NGS-26310	30.19094	12123561	
5	ARS-BFGL-NGS-29426	30.22032	12174285	
5	ARS-BFGL-NGS-31399	30.24302	12213478	
5	ARS-BFGL-NGS-58588	30.3154	12338455	
5	Hapmap46581-BTA-75566	30.33934	12379777	
5	ARS-BFGL-NGS-73207	30.35602	12408591	
5	Hapmap23168-BTA-75567	30.37604	12443146	
5	ARS-BFGL-NGS-1161	30.38792	12463666	
5	BTA-75576-no-rs	30.46763	12601297	
5	ARS-BFGL-NGS-6826	30.53985	12725994	
5	Hapmap33970-BES11_Contig478_2145	30.55949	12759904	12759904
5	BTA-75591-no-rs	30.57776	12791449	
5	ARS-BFGL-NGS-60066	30.58916	12811138	
5	Hapmap49501-BTA-15676	30.70291	13007538	
5	ARS-BFGL-NGS-116924	30.73583	13064372	
5	Hapmap46515-BTA-15679	30.76251	13110436	
5	ARS-BFGL-NGS-111940	30.78097	13142317	
5	ARS-BFGL-NGS-22061	30.83	13230398	
5	ARS-BFGL-NGS-81155	30.83	13271489	
5	Hapmap39895-BTA-15668	30.83	13311842	
5	ARS-BFGL-NGS-15419	30.83	13362021	
5	BTA-72768-no-rs	31.1341	13659330	
5	Hapmap36482-SCAFFOLD163485_1458	31.9368	14000800	14000800
5	Hapmap52967-rs29017027	32.0392	14044364	
5	Hapmap32870-BTA-162083	32.38092	14189730	
5	ARS-BFGL-NGS-84009	33.06772	14481898	
5	ARS-BFGL-NGS-41475	33.2426	14556289	
5	Hapmap58532-rs29018522	33.52139	14674886	
5	BTA-87036-no-rs	33.67796	14741492	
5	BTA-87039-no-rs	33.74584	14770370	
5	BTB-01113127	33.82095	14802322	
5	BTB-01113145	33.9058	14838419	
5	BTA-02257-rs29009814	33.96673	14864337	
5	Hapmap55633-rs29023979	34.03741	14894403	
5	Hapmap44154-BTA-87046	34.14168	14953446	
5	BTA-87049-no-rs	34.16176	14975598	

5	ARS-BFGL-NGS-102679	34.2059	15024272
5	BTA-05007-rs29019174	34.23951	15061346
5	Hapmap55237-rs29010308	34.25999	15083929
5	BTA-92020-no-rs	34.27953	15105474
5	BTB-00861875	34.34422	15176813
5	ARS-BFGL-NGS-110395	34.36814	15203201
5	Hapmap33479-BTA-137049	34.3876	15224660
5	BTB-00862015	34.41824	15258458
5	BTB-00905450	34.47628	15322464
5	Hapmap48014-BTA-59805	34.51921	15369811
5	Hapmap56721-rs29021198	34.56838	15424038
5	Hapmap41949-BTA-72796	34.65018	15514245
5	ARS-BFGL-NGS-3532	34.79457	15673486
5	Hapmap44400-BTA-72792	34.8	15696963
5	Hapmap42369-BTA-93920	34.8	15780939
5	Hapmap40277-BTA-72811	34.90085	15939304
5	ARS-BFGL-NGS-20187	35.02768	16024346
5	ARS-BFGL-NGS-68464	35.26989	16163636
5	BTA-12588-rs29024540	35.38561	16222106
5	Hapmap44593-BTA-20421	35.54447	16302376
5	BTA-20426-no-rs	35.6041	16332505
5	ARS-BFGL-NGS-51490	35.98104	16522966
5	Hapmap33068-BTA-160954	36.02554	16545450
5	ARS-BFGL-NGS-66695	36.14421	16605412
5	BTA-89424-no-rs	36.26564	16666769
5	BTA-103542-no-rs	36.84146	16795347
5	ARS-BFGL-NGS-44205	37.60467	16952114
5	ARS-BFGL-NGS-114062	37.75204	16982383
5	ARS-BFGL-NGS-104042	37.917	17016269
5	ARS-BFGL-NGS-115501	38.07169	17215443
5	ARS-BFGL-NGS-25323	38.11391	17338669
5	ARS-BFGL-NGS-10032	38.12218	17362801
5	ARS-BFGL-NGS-108063	38.16568	17507982
5	Hapmap45956-BTA-74297	38.5299	17995212
5	BTA-74300-no-rs	38.55023	18022416
5	BTA-74302-no-rs	38.56871	18047140
5	BTA-74304-no-rs	38.58956	18075032
5	Hapmap25789-BTA-123396	38.75393	18294913
5	BTA-123395-no-rs	38.75685	18298823
5	BTA-72821-no-rs	38.85821	18434417
5	ARS-BFGL-NGS-29626	38.97209	18586765
5	UA-IFASA-5221	39.08624	18739471
5	Hapmap41762-BTA-117570	39.23912	18943987
5	ARS-BFGL-NGS-110624	39.37676	19128124
5	ARS-BFGL-NGS-58860	39.49178	19281986
5	Hapmap51040-BTA-72857	39.54886	19358355
5	Hapmap28068-BTA-72847	39.60878	19438508
5	Hapmap42303-BTA-72846	39.62384	19458651
5	ARS-BFGL-NGS-116388	39.65035	19494122
5	ARS-BFGL-NGS-36350	39.67843	19531689
5	ARS-BFGL-NGS-110925	39.72535	19594448
5	BTA-27242-no-rs	39.97737	19931600
5	Hapmap41812-BTA-27269	40.01639	19983794
5	ARS-BFGL-NGS-114197	40.19146	20218000
5	ARS-BFGL-NGS-119271	40.30785	20373701
5	BTA-06872-rs29021228	40.41135	20512172
5	Hapmap26407-BTA-142865	40.48439	20609872
5	ARS-BFGL-NGS-106792	40.70362	20903150
5	Hapmap43960-BTA-85875	40.75839	20976423

5	BTA-72805-no-rs	40.8185	21056843	
5	Hapmap44614-BTA-72802	40.86161	21114508	
5	BTA-121676-no-rs	40.88	21181621	
5	ARS-BFGL-NGS-54735	40.93583	21319989	
5	Hapmap60266-rs29024423	40.97821	21389684	
5	Hapmap42402-BTA-103350	41.03569	21484201	
5	ARS-BFGL-NGS-15746	41.05978	21523820	
5	ARS-BFGL-NGS-117294	41.08287	21561793	
5	ARS-BFGL-NGS-32842	41.13357	21645179	
5	ARS-BFGL-NGS-35869	41.17165	21707809	
5	Hapmap42731-BTA-92931	41.20841	21768260	
5	Hapmap57583-rs29014779	41.30494	21876606	
5	BTA-103857-no-rs	41.34813	21922004	
5	ARS-BFGL-NGS-115647	41.37216	21947260	
5	ARS-BFGL-NGS-73823	41.41752	21994945	
5	BTA-72912-no-rs	41.44165	22020313	
5	ARS-BFGL-NGS-12094	41.47338	22053661	
5	Hapmap45700-BTA-72915	41.49538	22076793	
5	Hapmap41346-BTA-72920	41.60914	22196364	
5	BTA-01717-no-rs	41.63684	22225486	
5	ARS-BFGL-NGS-40167	41.73435	22327983	
5	ARS-BFGL-NGS-44305	41.75546	22350178	
5	ARS-BFGL-NGS-118274	41.87014	22470718	
5	ARS-BFGL-NGS-114594	41.99241	22599252	
5	ARS-BFGL-NGS-35234	42.07437	22685406	
5	ARS-BFGL-NGS-93953	42.12366	22737219	
5	ARS-BFGL-NGS-90895	42.16169	22777192	
5	Hapmap23146-BTA-123179	42.22903	22847985	
5	Hapmap55454-rs29027427	42.26137	22881974	
5	Hapmap51041-BTA-72970	42.31985	22943453	
5	BTA-72966-no-rs	42.36218	22987941	
5	ARS-BFGL-NGS-110971	42.40369	23031571	
5	ARS-BFGL-NGS-97448	42.42612	23055154	
5	Hapmap28359-BTA-142912	42.51387	23147391	
5	Hapmap36616-SCAFFOLD310212_1822	42.53684	23171537	
5	Hapmap41628-BTA-72959	42.73418	23378977	
5	BTA-72957-no-rs	42.76271	23408962	
5	BTA-72955-no-rs	42.8124	23461203	
5	Hapmap47711-BTA-72953	42.83339	23483262	
5	BTA-72952-no-rs	42.86535	23516860	
5	BTA-72947-no-rs	42.91489	23568941	
5	ARS-BFGL-NGS-34975	43.20642	23825621	
5	ARS-BFGL-NGS-12640	43.24889	23861315	
5	Hapmap32320-BTA-142894	43.3244	23924800	
5	ARS-BFGL-NGS-111109	43.4909	24064770	
5	Hapmap31771-BTA-142898	43.54689	24111835	
5	ARS-BFGL-NGS-116514	43.61414	24168373	
5	Hapmap30819-BTA-142899	43.66917	24214641	
5	ARS-BFGL-NGS-100276	43.89197	24401937	
5	BTA-105595-no-rs	43.92111	24426434	
5	ARS-BFGL-NGS-112212	43.95102	24451576	
5	ARS-BFGL-NGS-10291	44.02338	24512405	
5	ARS-BFGL-NGS-77906	44.04835	24533402	
5	Hapmap51042-BTA-73045	44.10336	24579644	
5	ARS-BFGL-NGS-72504	44.13432	24605672	
5	ARS-BFGL-NGS-101539	44.16096	24628072	
5	BTA-73031-no-rs	44.20817	24667754	
5	BTA-73025-no-rs	44.27274	24722041	
5	Hapmap53250-rs29027200	44.52597	24934918	

5	Hapmap43920-BTA-73006	44.68312	25067030	
5	Hapmap55554-ss46526312	44.72489	25102148	
5	ARS-BFGL-NGS-92025	44.84718	25204948	
5	Hapmap30257-BTA-142970	45.03002	25358659	
5	Hapmap31455-BTA-148845	45.12232	25436255	
5	ARS-BFGL-NGS-14910	45.22013	25518483	
5	Hapmap60677-ss46526967	45.31394	25597342	
5	ARS-USMARC-666	45.36929	25643874	
5	ARS-USMARC-623	45.40071	25670284	
5	BTA-72978-no-rs	45.43576	25699752	
5	ARS-USMARC-629	45.46	25738874	
5	BTA-72980-no-rs	45.46	25775985	
5	ARS-USMARC-646	45.46	25800581	
5	ARS-BFGL-NGS-8255	45.46	25915161	
5	ARS-BFGL-NGS-23961	45.46	25995476	
5	ARS-BFGL-NGS-32724	45.46	26056742	
5	Hapmap41950-BTA-72999	45.46	26082666	
5	ARS-BFGL-NGS-82224	45.5309	26153069	
5	ARS-BFGL-NGS-50553	45.56594	26181410	
5	ARS-BFGL-NGS-21191	45.66751	26263552	
5	ARS-BFGL-NGS-32476	45.91031	26459925	
5	Hapmap44687-BTA-73295	45.96956	26507844	
5	BTA-73296-no-rs	45.99316	26526934	
5	ARS-USMARC-622	46.00873	26539525	
5	ARS-BFGL-NGS-12229	46.0361	26561662	
5	BTA-73098-no-rs	46.10969	26621180	
5	ARS-BFGL-NGS-34382	46.15898	26661043	
5	ARS-BFGL-NGS-37524	46.34013	26809399	
5	Hapmap30002-BTA-142983	46.40842	26876852	
5	ARS-BFGL-NGS-4312	46.43941	26911621	
5	ARS-BFGL-NGS-5790	46.50579	26986116	
5	ARS-BFGL-NGS-59755	46.59565	27086960	
5	ARS-BFGL-NGS-115922	46.63462	27130695	
5	ARS-BFGL-NGS-87170	46.72816	27235668	
5	ARS-BFGL-NGS-34254	46.77431	27287454	
5	ARS-BFGL-NGS-72551	46.96161	27498349	
5	UA-IFASA-9230	46.99035	27542987	
5	Hapmap50081-BTA-73122	47.0279	27601323	
5	ARS-BFGL-NGS-113311	47.04847	27633265	
5	ARS-BFGL-NGS-103490	47.10147	27715589	
5	Hapmap39353-BTA-73120	47.14119	27777281	
5	ARS-USMARC-Parent-DQ500958-no-rs	47.17198	27825118	
5	ARS-BFGL-NGS-7725	47.18134	27839649	
5	ARS-BFGL-NGS-98156	47.20039	27869236	
5	Hapmap47087-BTA-73116	47.21901	27898166	
5	ARS-BFGL-NGS-8667	47.23783	27927409	
5	ARS-BFGL-NGS-38038	47.27954	27992179	
5	ARS-BFGL-NGS-15960	47.30063	28024945	
5	ARS-BFGL-NGS-5337	47.31995	28054954	
5	ARS-BFGL-NGS-100971	47.38343	28153566	
5	ARS-BFGL-NGS-44455	47.48082	28304831	
5	ARS-BFGL-NGS-7567	47.49786	28331294	
5	Hapmap41951-BTA-73168	47.56949	28442563	
5	ARS-BFGL-NGS-70496	47.59125	28476361	
5	ARS-BFGL-NGS-91751	47.65397	28573792	
5	ARS-BFGL-NGS-110943	47.67242	28602448	
5	ARS-BFGL-NGS-117977	47.69675	28640245	
5	ARS-BFGL-NGS-107085	47.71	28660813	
5	ARS-BFGL-NGS-90297	47.73205	28695066	

5	Hapmap43922-BTA-73158	47.75899	28736911	
5	ARS-BFGL-NGS-115973	47.77198	28757093	
5	ARS-USMARC-624	47.83804	28859701	
5	ARS-BFGL-NGS-28836	47.86131	28895850	
5	BTA-73088-no-rs	47.8816	28927363	
5	BTA-73178-no-rs	47.9565	29043711	
5	ARS-BFGL-NGS-8796	47.98991	29095603	
5	BTA-73077-no-rs	48.02955	29157172	
5	Hapmap38548-BTA-97184	48.08336	29240752	
5	ARS-BFGL-NGS-38020	48.09876	29264678	
5	UA-IFASA-2691	48.17854	29388592	
5	BTA-73209-no-rs	48.24809	29496625	
5	BTA-73210-no-rs	48.27889	29544481	
5	ARS-BFGL-NGS-20135	48.4689	29839619	
5	Hapmap51983-BTA-73224	48.52714	29930077	
5	ARS-BFGL-NGS-28317	48.5472	29961242	
5	UA-IFASA-2781	48.56563	29989860	
5	ARS-BFGL-NGS-49972	48.57989	30012017	
5	Hapmap34759-BES10_Contig780_1565	48.6669		30061770
5	BTA-06718-no-rs	48.70792	30085168	
5	Hapmap47089-BTA-73292	48.76004	30114907	
5	ARS-BFGL-NGS-112542	48.83881	30159843	
5	ARS-BFGL-NGS-119788	48.88437	30185840	
5	Hapmap39286-BTA-73191	49.04093	30275164	
5	ARS-USMARC-635	49.17825	30353509	
5	ARS-USMARC-633	49.21507	30374517	
5	Hapmap52787-rs29024515	49.29063	30417623	
5	Hapmap38536-BTA-85959	49.5445	30562466	
5	ARS-BFGL-NGS-1251	49.67955	30639518	
5	ARS-BFGL-NGS-53461	49.71457	30659497	
5	Hapmap59321-rs29015703	50.02903	30838906	
5	ARS-BFGL-NGS-43909	50.10066	30879776	
5	ARS-BFGL-NGS-35577	50.15719	30912029	
5	ARS-BFGL-NGS-23612	50.2425	30960699	
5	ARS-BFGL-NGS-112163	50.44242	31074760	
5	UA-IFASA-5621	50.74389	31246762	
5	BTA-73398-no-rs	50.84717	31305687	
5	Hapmap23022-BTA-161235	51.38586	31613026	
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5	BTA-73392-no-rs	53.5018	32104484	
5	ARS-BFGL-NGS-28024	53.68586	32220261	
5	ARS-BFGL-NGS-12166	53.73296	32310418	
5	ARS-BFGL-NGS-11851	53.80107	32426908	
5	ARS-BFGL-NGS-14419	53.85289	32502917	
5	ARS-USMARC-637	53.95166	32596644	
5	ARS-BFGL-NGS-101679	54.06059	32688182	
5	Hapmap42150-BTA-25138	54.21659	32819286	
5	ARS-BFGL-NGS-717	54.26741	32861996	
5	BTB-01733013	54.31308	32900374	
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5	ARS-BFGL-NGS-112730	54.4962	33054266	
5	ARS-BFGL-NGS-92420	54.52477	33078266	
5	ARS-BFGL-NGS-57266	54.59357	33136086	
5	Hapmap47184-BTA-114107	54.63863	33173961	
5	BTA-105159-no-rs	54.66451	33195704	
5	Hapmap46916-BTA-105154	54.72513	33246646	
5	Hapmap27009-BTA-156880	54.74	33334061	

5	BTB-01226625	54.74	33374776
5	BTB-01226603	54.75787	33436079
5	BTB-01226567	54.78914	33457988
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5	BTA-117471-no-rs	54.86074	33508142
5	BTB-01205655	54.97208	33586136
5	BTA-110108-no-rs	55.00839	33611572
5	BTB-01978398	55.08052	33637178
5	BTA-110105-no-rs	55.32205	33687195
5	BTB-01953426	55.42735	33709003
5	BTA-87984-no-rs	55.53887	33732100
5	BTB-01205531	55.68672	33762720
5	BTB-01205481	55.85546	33808700
5	BTA-110099-no-rs	55.87928	33861705
5	BTB-01496004	55.92123	33925229
5	Hapmap39213-BTA-98187	55.94025	33953799
5	BTB-01495858	55.95845	33981125
5	ARS-BFGL-NGS-127	55.97271	34002538
5	ARS-BFGL-NGS-25635	56.02622	34082902
5	BTB-01495784	56.03883	34101843
5	ARS-BFGL-NGS-117517	56.06558	34142015
5	BTB-01740719	56.09126	34180584
5	ARS-BFGL-NGS-35179	56.18746	34325053
5	BTB-01591477	56.21867	34371932
5	BTA-27700-no-rs	56.25061	34419894
5	BTB-01354509	56.26859	34446901
5	BTB-01354536	56.28466	34471037
5	BTA-27697-no-rs	56.32019	34524391
5	BTB-01794441	56.84887	34859881
5	ARS-BFGL-NGS-110341	56.87215	34896625
5	BTB-00572772	56.89804	34937478
5	ARS-BFGL-NGS-119357	56.93295	34989903
5	BTB-00572731	56.9833	35023805
5	ARS-BFGL-NGS-119673	57.06083	35076006
5	ARS-BFGL-NGS-1649	57.22482	35186437
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5	UA-IFASA-9489	57.39482	35300909
5	BTA-21377-no-rs	57.69731	35657214
5	BTA-40574-no-rs	57.707	35689570
5	Hapmap42995-BTA-60519	57.75	35958264
5	ARS-BFGL-NGS-109054	57.75	35996403
5	ARS-BFGL-NGS-40375	57.75605	36041533
5	ARS-BFGL-NGS-66566	57.7989	36122701
5	ARS-BFGL-NGS-119343	58.22839	36388805
5	ARS-BFGL-NGS-29931	58.65048	36528436
5	BTB-02015191	58.66417	36553084
5	BTB-00225371	58.67807	36578127
5	BTB-00225358	58.69434	36607433
5	Hapmap50083-BTA-73262	58.7394	36688615
5	BTB-00225267	58.75698	36720283
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5	BTA-73258-no-rs	58.80779	36811811
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5	ARS-USMARC-686	58.86662	36917783
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5	ARS-BFGL-NGS-90269	58.95232	37072176
5	BTB-01635088	59.04895	37246233
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5	BTB-01832706	59.09613	37331234



5	ARS-BFGL-NGS-16895	59.11736	37369462
5	BTB-01248439	59.1364	37403771
5	BTB-01248388	59.15668	37440296
5	BTA-118501-no-rs	59.19898	37516502
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5	Hapmap50248-BTA-117719	59.26394	37607773
5	Hapmap54173-rs29021717	59.34799	37668761
5	Hapmap58596-rs29013530	59.5348	37804312
5	BTA-73413-no-rs	59.65567	37892017
5	BTA-28787-no-rs	59.82648	37925443
5	Hapmap43550-BTA-28784	60.03962	37964220
5	ARS-BFGL-NGS-53488	60.78983	38106808
5	Hapmap23837-BTA-163643	60.85302	38131225
5	Hapmap57437-rs29017167	61.15725	38248775
5	ARS-BFGL-NGS-108990	61.36715	38329881
5	BTA-73418-no-rs	61.42402	38351858
5	Hapmap38042-BTA-73420	61.52441	38390645
5	Hapmap41953-BTA-73422	61.72036	38466360
5	BTA-73433-no-rs	61.85051	38516646
5	BTA-73439-no-rs	62.32931	38701654
5	Hapmap44125-BTA-73440	62.45324	38749540
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5	ARS-BFGL-NGS-54580	62.74621	38862744
5	Hapmap58789-rs29016364	63.00779	38963818
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5	ARS-BFGL-NGS-53475	64.3492	39482132
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5	BTA-119378-no-rs	64.56	39694609
5	ARS-BFGL-NGS-49659	64.56	39720278
5	ARS-BFGL-NGS-29758	64.56	39920171
5	Hapmap55164-rs29016423	64.56367	40058566
5	BTB-01801679	64.58124	40092319
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5	Hapmap52717-rs29026394	64.60824	40144186
5	BTB-01524285	64.63344	40192584
5	BTA-100721-no-rs	64.65457	40233163
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5	Hapmap50570-BTA-112943	64.72417	40366855
5	Hapmap38094-BTA-112941	64.74251	40402061
5	ARS-BFGL-NGS-113753	64.78619	40485953
5	ARS-BFGL-NGS-65543	64.79993	40512359
5	BTB-00226032	64.82146	40553720
5	Hapmap48064-BTA-73407	64.82181	40554369
5	UA-IFASA-8207	64.83527	40580237
5	Hapmap53246-rs29026986	64.84846	40605553
5	BTB-01700124	64.86555	40638405
5	BTB-01700108	64.87889	40664008
5	BTB-01700084	64.89379	40692636
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5	BTB-01144774	64.97195	40842740
5	Hapmap44326-BTA-97746	64.9851	40868010
5	BTB-01144811	64.99897	40894646
5	BTB-01494277	65.02242	40939678
5	BTB-01494257	65.0377	40969028
5	Hapmap49813-BTA-97737	65.17881	41143539
5	BTA-97739-no-rs	65.21062	41170073
5	BTA-122207-no-rs	65.32378	41264443

5	BTA-118386-no-rs	65.42596	41476949
5	Hapmap58641-rs29010249	65.44292	41521945
5	BTB-01342721	65.45924	41565285
5	Hapmap26211-BTA-162829	65.48646	41637547
5	BTB-01812364	65.49754	41666974
5	ARS-BFGL-NGS-22065	65.50811	41695035
5	BTA-26132-no-rs	65.54756	41799777
5	ARS-BFGL-NGS-28318	65.59052	41913821
5	Hapmap27968-BTA-154024	65.66847	42063044
5	BTA-105507-no-rs	65.7045	42085647
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5	ARS-BFGL-NGS-18989	65.86779	42188101
5	Hapmap52463-rs29025831	65.90711	42212768
5	BTA-91090-no-rs	65.95296	42241538
5	ARS-BFGL-NGS-69056	66.02357	42285835
5	ARS-BFGL-NGS-98588	66.16206	42436216
5	ARS-BFGL-NGS-40367	66.19741	42528376
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5	BTB-01255969	66.27991	42743482
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5	ARS-BFGL-NGS-73955	66.31581	42837081
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5	Hapmap58370-rs29014396	66.37968	43003607
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5	BTB-00226457	66.41532	43102083
5	BTB-00226439	66.42176	43125599
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5	BTB-00226702	66.46283	43275588
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5	BTA-96545-no-rs	66.52802	43513714
5	Hapmap42018-BTA-96546	66.53548	43540910
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5	BTA-112529-no-rs	66.55985	43629951
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5	Hapmap51299-BTA-73473	66.60622	43799282
5	Hapmap38177-BTA-73472	66.62086	43852761
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5	Hapmap26479-BTA-162312	66.67747	44059505
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5	ARS-USMARC-674	66.71241	44187145
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5	Hapmap31830-BTA-160345	66.76778	44350725
5	BTA-27077-no-rs	66.78194	44395286
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5	Hapmap41954-BTA-73479	67.0248	45159766
5	ARS-BFGL-NGS-92039	67.03857	45203164
5	Hapmap43728-BTA-94000	67.09042	45306060
5	Hapmap25585-BTA-150007	67.15956	45420592
5	ARS-BFGL-NGS-42961	67.22286	45525436
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5	ARS-USMARC-657	67.27618	45834943
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5	Hapmap39118-BTA-73484	67.28304	46090794
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5	Hapmap50523-BTA-98407	67.30043	46741275
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5	ARS-BFGL-NGS-37989	67.33161	47906844
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5	BTA-73523-no-rs	67.33763	48131956
5	Hapmap42655-BTA-73526	67.3383	48157147
5	ARS-BFGL-NGS-113888	67.34254	48315330
5	Hapmap41074-BTA-73520	67.34351	48351526
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5	BTA-73516-no-rs	67.35423	48752237
5	Hapmap51626-BTA-73514	67.35642	48834486
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5	Hapmap41813-BTA-27442	67.36204	49044380
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5	ARS-BFGL-NGS-17506	67.36791	49264012
5	ARS-BFGL-NGS-69333	67.37023	49350626
5	Hapmap23955-BTA-163276	67.37385	49485954
5	Hapmap55277-rs29021741	67.37565	49553247
5	ARS-BFGL-NGS-42510	67.37628	49576905
5	ARS-BFGL-NGS-43694	67.37824	49650207
5	BTA-27472-no-rs	67.37926	49688460
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5	BTA-95484-no-rs	67.3876	49999826

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5	Hapmap39014-BTA-27446	67.39443	50255359	
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5	ARS-BFGL-NGS-101569	67.39981	50456512	
5	BTA-89331-no-rs	67.40044	50479815	
5	BTA-17628-no-rs	67.40602	50688501	
5	Hapmap44526-BTA-17619	67.40717	50731517	
5	Hapmap29845-BTA-152324	67.41	50870187	
5	ARS-BFGL-NGS-114918	67.41	51029985	
5	ARS-BFGL-NGS-33745	67.41	51064864	
5	ARS-BFGL-NGS-96600	67.41	51141012	
5	ARS-BFGL-NGS-111500	67.41	51182567	
5	Hapmap42656-BTA-73551	67.41	51213449	
5	BTA-73549-no-rs	67.41	51252309	
5	ARS-BFGL-NGS-111906	67.41	51276764	
5	Hapmap34504-BES10_Contig662_1293	67.47759		51392175
5	Hapmap49938-BTA-26588	67.59572	51569462	
5	Hapmap50633-BTA-26590	67.6191	51604559	
5	ARS-BFGL-NGS-111969	67.65746	51662116	
5	ARS-BFGL-NGS-119432	67.70425	51732343	
5	ARS-BFGL-NGS-56648	67.72458	51762857	
5	Hapmap42734-BTA-93390	67.74107	51787600	
5	Hapmap43924-BTA-73528	67.78955	51860369	
5	Hapmap35518-SCAFFOLD310378_3418	67.81702		51901594
5	ARS-BFGL-NGS-116994	67.86093	51967497	
5	ARS-BFGL-NGS-52586	68.3937	52249541	
5	Hapmap39507-BTA-73544	68.5257	52300318	
5	Hapmap43667-BTA-73533	68.58	52600701	
5	ARS-BFGL-NGS-8741	68.89258	53263967	
5	BTA-99758-no-rs	69.1	53576870	
5	ARS-BFGL-NGS-114150	69.1	53610334	
5	Hapmap51300-BTA-73606	69.1	53668065	
5	BTA-85538-no-rs	69.15047	53704130	
5	Hapmap26971-BTA-147163	69.2	53734114	
5	Hapmap48266-BTA-25355	69.52022	53927959	
5	Hapmap43887-BTA-58386	69.71432	54045462	
5	Hapmap48395-BTA-58382	69.83802	54120342	
5	BTA-58378-no-rs	69.92312	54171859	
5	Hapmap57581-rs29014628	69.98602	54209940	
5	ARS-BFGL-NGS-55886	70.02147	54231399	
5	Hapmap41994-BTA-86487	70.0985	54310578	
5	ARS-BFGL-NGS-103359	70.1182	54333458	
5	Hapmap60074-rs29020121	70.14896	54369185	
5	Hapmap42984-BTA-58358	70.21838	54449817	
5	ARS-BFGL-NGS-16937	70.24201	54477274	
5	Hapmap32781-BTA-123131	70.39182	54651297	
5	ARS-BFGL-NGS-67203	70.44326	54711045	
5	ARS-BFGL-NGS-7003	70.47253	54745039	
5	Hapmap57248-rs29018609	70.63467	54933394	
5	ARS-BFGL-NGS-3921	70.66145	54964499	
5	Hapmap48560-BTA-101652	70.7	55015181	
5	BTA-88188-no-rs	70.7	55193544	
5	BTA-54940-no-rs	70.7	55263796	
5	BTA-54938-no-rs	70.7	55314257	
5	Hapmap41576-BTA-54925	70.78587	55378288	
5	ARS-BFGL-NGS-92026	70.85331	55407180	
5	Hapmap38165-BTA-54923	71.0948	55510650	

5	ARS-BFGL-NGS-115403	71.26383	55590501	
5	ARS-BFGL-NGS-81838	71.30743	55616571	
5	Hapmap60308-rs29026607	71.36694	55652161	
5	ARS-BFGL-NGS-14970	71.57771	55865567	
5	BTA-73609-no-rs	71.74251	55945273	
5	ARS-BFGL-NGS-84483	71.78891	55967255	
5	ARS-BFGL-NGS-109796	71.83501	55989100	
5	BTA-73613-no-rs	72.3584	56237069	
5	Hapmap44616-BTA-73618	72.72493	56410718	
5	ARS-BFGL-NGS-12528	72.80492	56515069	
5	ARS-BFGL-NGS-4763	72.82732	56585423	
5	ARS-BFGL-NGS-104746	72.83779	56618321	
5	Hapmap30258-BTA-143119	72.85157	56661587	
5	ARS-BFGL-NGS-14781	72.88486	56766165	
5	ARS-BFGL-NGS-108437	73.2496	57008880	
5	BTA-73563-no-rs	73.41269	57087530	
5	Hapmap47090-BTA-73564	73.57401	57165320	
5	ARS-BFGL-NGS-100634	73.92753	57335801	
5	UA-IFASA-6196	74.0269	57383719	
5	Hapmap34521-BES10_Contig695_990	74.12557	57470387	
5	Hapmap34864-BES11_Contig325_836	74.15694	57557646	
5	ARS-BFGL-NGS-44271	74.18195	57606624	
5	Hapmap60668-rs29018280	74.2588	57681031	
5	ARS-BFGL-NGS-12487	74.54018	57953405	
5	ARS-BFGL-NGS-103394	74.56516	57977594	
5	Hapmap57440-rs29017368	74.59169	58003271	
5	Hapmap27035-BTA-162841	74.88712	58282365	
5	ARS-BFGL-NGS-56672	75.18	58583012	
5	ARS-BFGL-NGS-35956	75.18	58638702	
5	BTA-87617-no-rs	75.18889	58847022	
5	Hapmap40158-BTA-104729	75.50597	59665562	
5	ARS-BFGL-NGS-44413	75.54547	59840330	
5	Hapmap27767-BTA-154179	75.64101	60263049	
5	BTA-106033-no-rs	75.64798	60293911	
5	Hapmap53993-rs29024740	75.66587	60373086	
5	ARS-BFGL-NGS-55084	75.69752	60513092	
5	ARS-BFGL-NGS-5504	75.70733	60556520	
5	ARS-BFGL-NGS-7741	75.71351	60583869	
5	ARS-BFGL-NGS-24154	75.71809	60604166	
5	ARS-BFGL-NGS-110018	75.72672	60642347	
5	Hapmap60306-rs29023088	75.73199	60665676	
5	ARS-BFGL-NGS-35987	75.74236	60711494	
5	BTA-73685-no-rs	75.79171	60929878	
5	ARS-BFGL-NGS-2707	75.87799	61040367	
5	Hapmap48872-BTA-73734	76.09256	61133643	
5	ARS-BFGL-NGS-76136	76.15382	61160278	
5	BTA-73733-no-rs	76.20725	61183506	
5	UA-IFASA-2202	76.32028	61232643	
5	ARS-BFGL-NGS-104182	76.44466	61286713	
5	ARS-BFGL-NGS-44773	76.53413	61325606	
5	ARS-BFGL-NGS-30685	76.58532	61363211	
5	Hapmap39777-BTA-73723	76.59646	61400176	
5	ARS-BFGL-NGS-105299	76.63195	61517987	
5	Hapmap48066-BTA-73690	76.6452	61561987	
5	Hapmap38984-BTA-73694	76.6563	61598840	
5	BTA-73718-no-rs	76.7142	61790994	
5	ARS-BFGL-NGS-7020	76.7355	61861737	
5	ARS-BFGL-NGS-23104	76.76487	61959204	
5	BTA-101909-no-rs	76.77428	61990458	

5	BTA-73667-no-rs	76.79214	62049737		
5	BTA-73669-no-rs	76.83164	62180846		
5	ARS-BFGL-NGS-115187	76.85213	62248841		
5	Hapmap49730-BTA-73676	76.86041	62276336		
5	BTA-73677-no-rs	76.88584	62360769		
5	BTA-97422-no-rs	76.89599	62394447		
5	Hapmap54087-rs29009717	76.9083	62435307		
5	ARS-BFGL-NGS-100699	76.91872	62469899		
5	Hapmap24838-BTA-143176	76.92573	62493151		
5	ARS-BFGL-NGS-16004	76.98436	62687768		
5	ARS-BFGL-NGS-99269	77.02802	62832681		
5	ARS-BFGL-NGS-72491	77.04306	62882624		
5	ARS-BFGL-NGS-20969	77.05457	62920850		
5	ARS-BFGL-NGS-57382	77.07378	63013343		
5	ARS-BFGL-NGS-98279	77.13988	63226065		
5	Hapmap52242-rs29012227	77.16635	63273238		
5	ARS-USMARC-Parent-DQ647189-rs29012226	77.16644	63273386		
5	Hapmap27761-BTA-151316	77.26707	63452696		
5	ARS-BFGL-NGS-115708	77.29433	63501248		
5	ARS-BFGL-NGS-44991	77.30923	63527807		
5	ARS-BFGL-NGS-114987	77.32472	63555403		
5	ARS-BFGL-NGS-2133	77.35243	63604786		
5	ARS-BFGL-NGS-79978	77.41356	63713695		
5	BTA-20508-no-rs	77.46898	63812430		
5	ARS-BFGL-NGS-71801	77.5015	63870367		
5	ARS-BFGL-NGS-45045	77.51782	63899453		
5	Hapmap49515-BTA-18233	77.56629	63983082		
5	ARS-BFGL-NGS-101136	77.57915	64003845		
5	ARS-BFGL-NGS-60284	77.65434	64125159		
5	BTA-73797-no-rs	77.6947	64190317		
5	Hapmap51479-BTA-66720	77.78185	64330943		
5	Hapmap55537-rs29016129	77.81258	64380551		
5	Hapmap52663-rs29003804	77.88857	64503182		
5	Hapmap49418-BTA-103327	77.92738	64565816		
5	ARS-BFGL-NGS-119490	78.00285	64687608		
5	Hapmap60525-rs29019791	78.07092	64797468		
5	ARS-BFGL-NGS-60473	78.1555	64933958		
5	Hapmap43010-BTA-66698	78.17983	64973223		
5	Hapmap25652-BTA-73867	78.24266	65074617		
5	Hapmap27803-BTA-66694	78.25547	65095289		
5	ARS-BFGL-NGS-101258	78.31088	65184723		
5	ARS-BFGL-NGS-24122	78.33813	65228699		
5	Hapmap54116-rs29011749	78.35851	65261569		
5	Hapmap43927-BTA-73874	78.38316	65301359		
5	ARS-BFGL-NGS-34435	78.42283	65365377		
5	ARS-BFGL-NGS-15795	78.50559	65553318		
5	Hapmap47716-BTA-73866	78.52274	65597776		
5	Hapmap41077-BTA-73865	78.54594	65657906		
5	Hapmap52265-rs29027362	78.55982	65693887		
5	ARS-BFGL-NGS-20849	78.57912	65743920		
5	Hapmap50179-BTA-02418	78.59223	65777889		
5	ARS-BFGL-NGS-21991	78.62076	65851825		
5	ARS-BFGL-NGS-113480	78.63049	65877074		
5	ARS-BFGL-NGS-62748	78.64787	65922088		
5	ARS-BFGL-NGS-15520	78.67	65986618		
5	Hapmap47760-BTA-85576	78.67	65998778		
5	BTA-85566-no-rs	78.67	66040455		
5	BTA-85562-no-rs	78.67538	66083568		
5	ARS-BFGL-NGS-15787	78.75429	66157408		

5	ARS-BFGL-NGS-118135	78.99963	66386971	
5	ARS-BFGL-NGS-104108	79.09924	66480185	
5	ARS-BFGL-NGS-116459	79.2035	66577741	
5	ARS-BFGL-NGS-100547	79.83086	66784879	
5	Hapmap59828-rs29027014	79.85741	66830677	
5	BTA-73767-no-rs	79.87992	66869513	
5	Hapmap41724-BTA-101837	79.92083	66940077	
5	ARS-BFGL-NGS-23025	79.94171	66976106	
5	BTA-73768-no-rs	79.96573	67031023	
5	Hapmap40581-BTA-73771	80.01323	67153683	
5	ARS-BFGL-NGS-54507	80.19602	67344893	
5	ARS-BFGL-NGS-108589	80.318	67408071	
5	ARS-BFGL-NGS-28026	80.66198	67586221	
5	ARS-BFGL-NGS-53578	81.03645	67780167	
5	ARS-BFGL-NGS-32909	81.15545	67846632	
5	Hapmap54136-rs29019962	81.19539	67902804	
5	Hapmap50493-BTA-86473	81.22765	67948150	
5	Hapmap41155-BTA-112870	81.29295	68039989	
5	BTA-46975-no-rs	81.42135	68220538	
5	ARS-BFGL-NGS-71447	81.4531	68265188	
5	Hapmap49622-BTA-46973	81.47403	68294607	
5	ARS-BFGL-NGS-119231	81.50092	68335096	
5	ARS-BFGL-NGS-3906	81.50743	68363301	
5	ARS-BFGL-NGS-24738	81.51289	68386932	
5	ARS-BFGL-NGS-61694	81.52361	68433351	
5	ARS-BFGL-NGS-25684	81.53018	68461765	
5	ARS-BFGL-NGS-111469	81.5449	68525492	
5	Hapmap41274-BTA-46964	81.55029	68548817	
5	ARS-BFGL-NGS-118628	81.55907	68586846	
5	Hapmap50366-BTA-46960	81.56461	68610818	
5	ARS-BFGL-NGS-33119	81.56963	68632534	
5	ARS-BFGL-NGS-118360	81.57757	68666925	
5	Hapmap54640-rs29022240	81.62688	68880383	
5	Hapmap27802-BTA-49707	81.64211	68946279	
5	Hapmap26947-BTA-133787	81.70205	69205786	
5	Hapmap41008-BTA-49717	81.71011	69240672	
5	ARS-BFGL-NGS-26837	81.71835	69276358	
5	Hapmap53566-rs29013289	81.73579	69351812	
5	Hapmap52961-rs29016208	81.75921	69453205	
5	ARS-BFGL-NGS-71718	81.76614	69483211	
5	Hapmap34577-BES3_Contig412_886		81.773	69512930
5	Hapmap57626-rs29027086	81.78133	69548960	
5	ARS-BFGL-NGS-81622	81.78645	69571158	
5	BTA-49720-no-rs	81.80655	69658153	
5	Hapmap40437-BTA-49726	81.81319	69686900	
5	ARS-BFGL-NGS-31540	81.82075	69719605	
5	ARS-BFGL-NGS-62645	81.84426	69821407	
5	ARS-BFGL-NGS-92816	81.85938	69886816	
5	ARS-BFGL-NGS-36257	81.87064	69935577	
5	ARS-BFGL-NGS-54671	81.88046	69978115	
5	Hapmap32574-BTA-143217	81.89022	70020344	
5	ARS-BFGL-NGS-25359	81.89687	70049126	
5	Hapmap51487-BTA-73847	81.9029	70075232	
5	BTA-73842-no-rs	81.92596	70175036	
5	ARS-BFGL-NGS-106520	81.93169	70199843	
5	Hapmap52789-rs29018750	81.94517	70258225	
5	ARS-BFGL-NGS-41363	81.95612	70305631	
5	Hapmap28985-BTA-73836	81.96382	70338965	
5	ARS-BFGL-NGS-119450	81.9705	70367869	

5	ARS-BFGL-NGS-25193	81.98843	70445471
5	BTA-73832-no-rs	81.99444	70471512
5	Hapmap23032-BTA-73828	82.07275	70762660
5	Hapmap54877-rs29016859	82.11239	70785518
5	ARS-BFGL-NGS-43470	82.25455	70867535
5	ARS-BFGL-NGS-3506	82.30666	70897603
5	BTA-109744-no-rs	82.43079	70969212
5	ARS-BFGL-NGS-19442	82.47979	70997483
5	ARS-BFGL-NGS-12711	82.56367	71045870
5	ARS-BFGL-NGS-82844	82.6526	71097173
5	ARS-BFGL-NGS-111066	82.73486	71144630
5	ARS-BFGL-NGS-62562	82.79054	71176757
5	ARS-BFGL-NGS-80634	83.05589	71272297
5	ARS-BFGL-NGS-76692	83.24751	71475195
5	ARS-BFGL-NGS-113273	83.28465	71499453
5	BTA-73902-no-rs	83.32535	71526049
5	ARS-BFGL-NGS-112180	83.35711	71546802
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5	ARS-BFGL-NGS-58020	83.63207	71726467
5	ARS-BFGL-NGS-106229	83.66714	71749375
5	ARS-BFGL-NGS-12807	83.71106	71778071
5	Hapmap57762-ss46526764	83.7613	71810896
5	ARS-BFGL-NGS-111008	83.8739	71884473
5	BTA-73923-no-rs	83.97	71954328
5	Hapmap40191-BTA-73919	83.97	71978791
5	BTA-73913-no-rs	83.97	72023321
5	BTA-73912-no-rs	83.97	72044945
5	ARS-BFGL-NGS-25351	83.97	72082602
5	ARS-BFGL-NGS-24506	83.97	72142911
5	ARS-BFGL-NGS-9747	83.97	72185576
5	ARS-BFGL-NGS-70198	84.03853	72243381
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5	ARS-BFGL-NGS-38863	84.1182	72300259
5	Hapmap39452-BTA-94180	84.18145	72345409
5	ARS-BFGL-NGS-18105	84.24475	72390588
5	ARS-BFGL-NGS-18273	84.27836	72414582
5	ARS-BFGL-NGS-113861	84.34808	72464363
5	ARS-BFGL-NGS-113321	84.52805	72592835
5	ARS-BFGL-NGS-79121	84.56338	72618051
5	ARS-BFGL-NGS-88709	84.6662	72691446
5	ARS-BFGL-NGS-38275	84.77798	72771241
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5	BTA-121690-no-rs	85.012	72938296
5	ARS-BFGL-NGS-26139	85.07427	72982750
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5	ARS-BFGL-NGS-90377	85.36123	73187595
5	ARS-BFGL-NGS-119129	85.39845	73214162
5	ARS-BFGL-NGS-29546	85.46056	73258507
5	ARS-BFGL-NGS-101650	85.56576	73334655
5	BTA-119247-no-rs	85.67395	73419142
5	ARS-BFGL-NGS-29114	85.84795	73555022
5	ARS-BFGL-NGS-119766	85.94678	73632210
5	BTA-74009-no-rs	85.98795	73664348
5	ARS-BFGL-NGS-87789	86.28405	73799375
5	ARS-BFGL-NGS-42349	86.39256	73841338
5	ARS-BFGL-NGS-100454	86.64644	73939508
5	ARS-BFGL-NGS-105011	86.74248	73976636
5	Hapmap46320-BTA-74099	86.82912	74010148
5	ARS-BFGL-NGS-103941	86.96536	74062827



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5	ARS-BFGL-NGS-101748	87.29837	74191590
5	ARS-BFGL-NGS-91626	87.37537	74221369
5	ARS-BFGL-NGS-42948	87.51571	74275630
5	ARS-BFGL-NGS-118185	87.7041	74348477
5	BTB-00230297	87.79118	74382150
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5	ARS-BFGL-NGS-68881	88.30753	74593114
5	ARS-BFGL-NGS-25373	88.58273	74764992
5	ARS-BFGL-NGS-114209	88.65237	74808483
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5	Hapmap40583-BTA-74092	88.83384	74921819
5	ARS-BFGL-NGS-40570	89.10459	75090908
5	ARS-BFGL-NGS-118891	89.14246	75114559
5	ARS-BFGL-NGS-10699	89.17971	75137820
5	ARS-BFGL-NGS-21953	89.22201	75164239
5	Hapmap46673-BTA-74066	89.28746	75205122
5	ARS-BFGL-NGS-32644	89.32288	75227241
5	ARS-BFGL-NGS-103088	89.38467	75265831
5	ARS-BFGL-NGS-60502	89.47056	75319473
5	ARS-BFGL-NGS-44080	89.53841	75361846
5	Hapmap50084-BTA-74042	89.62778	75417666
5	Hapmap40676-BTA-121691	89.69757	75461246
5	ARS-BFGL-NGS-80785	89.78888	75518275
5	ARS-BFGL-NGS-4875	89.8378	75548821
5	ARS-BFGL-NGS-117321	89.91955	75599879
5	ARS-BFGL-NGS-112184	89.96351	75627333
5	Hapmap47394-BTA-74024	90.01659	75660485
5	Hapmap48524-BTA-92140	90.05507	75684520
5	ARS-BFGL-NGS-21133	90.11603	75722589
5	ARS-BFGL-NGS-77601	90.172	75757551
5	BTA-74036-no-rs	90.23097	75794378
5	ARS-BFGL-NGS-111568	90.45375	75933509
5	ARS-BFGL-NGS-102150	90.54016	75987477
5	BTA-74076-no-rs	90.59072	76019053
5	ARS-BFGL-NGS-73201	90.63918	76049319
5	ARS-BFGL-NGS-74886	90.7073	76091862
5	ARS-BFGL-NGS-116435	90.81238	76157488
5	ARS-BFGL-NGS-11770	90.8447	76177675
5	ARS-BFGL-NGS-11281	90.90092	76200813
5	ARS-BFGL-NGS-110374	91.01269	76227370
5	ARS-BFGL-NGS-101822	91.26234	76286670
5	ARS-BFGL-NGS-80555	91.39152	76317361
5	Hapmap46399-BTA-109621	91.48386	76339294
5	ARS-BFGL-NGS-77016	91.56458	76385743
5	ARS-BFGL-NGS-17195	91.63403	76457030
5	BTB-01830189	91.65578	76479355
5	Hapmap24162-BTA-160429	91.67751	76501658
5	BTB-01700719	91.70844	76533399
5	BTB-01947877	91.77301	76599679
5	BTA-86447-no-rs	91.80663	76634186
5	BTB-01456615	91.83163	76659850
5	BTB-01456593	91.86279	76691828
5	Hapmap54557-rs29012924	91.9025	76724602
5	BTB-01738032	91.94788	76755076

5	Hapmap50896-BTA-122135	92.03142	76811165	
5	Hapmap38822-BTA-25276	92.0817	76845196	
5	BTB-01908691	92.11267	76870778	
5	BTB-01445567	92.17225	76919992	
5	BTB-01930671	92.21623	76956329	
5	Hapmap57426-rs29015767	92.25899	76991652	
5	BTB-01445745	92.30621	77030659	
5	BTB-01445778	92.33789	77056825	
5	BTB-00231742	92.38452	77095345	
5	Hapmap43928-BTA-74110	92.4099	77116302	
5	BTB-00232106	92.48437	77177828	
5	Hapmap25561-BTA-143277	92.61773	77287989	
5	BTB-00232546	92.6464	77311671	
5	BTA-32792-no-rs	92.71875	77371444	
5	Hapmap38950-BTA-32795	92.76907	77413005	
5	BTB-00525741	92.84527	77475950	
5	Hapmap46723-BTA-74145	92.87804	77503023	
5	BTA-74148-no-rs	93.15645	77733009	
5	ARS-BFGL-NGS-106744	93.21416	77780682	
5	Hapmap27904-BTA-74152	93.32693	77873830	
5	ARS-BFGL-NGS-118366	93.4652	77988054	
5	BTA-74159-no-rs	93.61983	78115795	
5	ARS-BFGL-NGS-99356	93.67194	78158838	
5	Hapmap41630-BTA-74182	93.72914	78206091	
5	ARS-BFGL-NGS-116166	93.90649	78352587	
5	BTA-74185-no-rs	94.0677	78485764	
5	ARS-BFGL-NGS-99969	94.20536	78566150	
5	ARS-BFGL-NGS-18089	94.47514	78711065	
5	ARS-BFGL-NGS-11787	94.48103	78714231	
5	Hapmap33871-BES7_Contig480_1179		94.59748	78776781
5	Hapmap57435-rs29016994	94.80096	78886080	
5	ARS-BFGL-NGS-91550	94.84441	78909424	
5	ARS-BFGL-NGS-7751	94.88169	78936196	
5	BTA-74084-no-rs	94.90031	78956945	
5	BTA-74078-no-rs	94.96986	79034452	
5	BTA-15927-no-rs	95.08746	79165498	
5	ARS-BFGL-NGS-83318	95.18765	79277155	
5	ARS-BFGL-NGS-21874	95.22082	79314115	
5	ARS-BFGL-NGS-27002	95.26009	79357868	
5	ARS-BFGL-NGS-65287	95.33028	79436094	
5	Hapmap42812-BTA-112891	95.35094	79459120	
5	Hapmap39311-BTA-120041	95.40226	79516307	
5	ARS-BFGL-NGS-110145	95.42852	79545564	
5	ARS-BFGL-NGS-2567	95.4644	79585561	
5	Hapmap48948-BTA-93308	95.51334	79640097	
5	Hapmap50590-BTA-120045	95.56319	79695650	
5	Hapmap60039-rs29012617	95.58772	79722978	
5	BTA-120044-no-rs	95.6059	79743240	
5	ARS-BFGL-NGS-19985	95.63059	79770759	
5	ARS-BFGL-NGS-110035	95.65634	79799455	
5	ARS-BFGL-NGS-104557	95.73545	79860058	
5	ARS-BFGL-NGS-27436	95.8345	79921213	
5	Hapmap50458-BTA-74360	96.22482	80162233	
5	ARS-BFGL-NGS-92011	96.27698	80194437	
5	BTA-74351-no-rs	96.37797	80256799	
5	Hapmap33017-BTA-143301	96.64943	80424421	
5	ARS-BFGL-NGS-11620	96.77976	80504904	
5	ARS-BFGL-NGS-70834	96.89044	80573246	
5	Hapmap45312-BTA-74347	96.96558	80619649	

5	ARS-BFGL-NGS-37859	97.03888	80664902	
5	Hapmap39431-BTA-74343	97.08799	80695234	
5	BTA-74341-no-rs	97.12389	80717401	
5	Hapmap44127-BTA-74234	97.17958	80751783	
5	Hapmap34319-BES3_Contig341_801	97.37537		80872690
5	Hapmap44403-BTA-74223	97.49525	80946701	
5	ARS-BFGL-NGS-98512	97.59344	81007340	
5	Hapmap43345-BTA-74211	97.65984	81048336	
5	BTA-74203-no-rs	97.701	81073764	
5	Hapmap52357-rs29023629	98.13697	81342964	
5	Hapmap42855-BTA-16144	98.19536	81379017	
5	Hapmap25632-BTA-23506	98.26665	81423037	
5	ARS-BFGL-NGS-44344	98.38	81520284	
5	Hapmap54968-rs29014852	98.38	81554485	
5	ARS-BFGL-NGS-29557	98.38	81612132	
5	Hapmap24405-BTA-159892	98.38	81678672	
5	ARS-BFGL-NGS-12222	98.58819	81828636	
5	Hapmap60532-rs29020408	98.6783	81880522	
5	Hapmap50271-BTA-17442	98.71814	81903458	
5	Hapmap41784-BTA-17439	99.14977	82036800	
5	ARS-BFGL-NGS-85328	99.57133	82169774	
5	Hapmap43500-BTA-17435	99.68514	82217101	
5	ARS-BFGL-NGS-32369	99.96767	82335857	
5	Hapmap56123-rs29018202	100.17	82424524	
5	ARS-BFGL-NGS-115597	100.17	82445649	
5	ARS-BFGL-NGS-72413	100.17	82466920	
5	ARS-BFGL-NGS-33004	100.17	82513431	
5	ARS-BFGL-NGS-117881	100.1739	82631679	
5	Hapmap49859-BTA-109537	100.2233	82738732	
5	Hapmap32282-BTA-109535	100.2453	82786530	
5	ARS-BFGL-NGS-67878	100.26	82818374	
5	ARS-BFGL-NGS-117278	100.276	82853115	
5	Hapmap43491-BTA-122155	100.2878	82878525	
5	ARS-BFGL-NGS-30361	100.3003	82905656	
5	Hapmap44167-BTA-95489	100.3181	82944314	
5	BTA-95491-no-rs	100.3849	82980387	
5	ARS-BFGL-NGS-92176	100.4511	83013004	
5	BTA-23154-no-rs	100.5213	83047635	
5	Hapmap44697-BTA-119062	100.6274	83099970	
5	ARS-BFGL-NGS-110407	100.8215	83195714	
5	BTA-27682-no-rs	101.24	83402906	
5	Hapmap36127-SCAFFOLD59715_196	101.24		83445048
5	UA-IFASA-7801	101.24	83492863	
5	UA-IFASA-6601	101.24	83585669	
5	UA-IFASA-6811	101.2663	83699791	
5	Hapmap51303-BTA-74377	101.3032	83790390	
5	ARS-BFGL-NGS-4683	101.3585	83926146	
5	ARS-BFGL-NGS-16666	101.3932	84011309	
5	ARS-BFGL-NGS-820	101.4124	84058638	
5	Hapmap49290-BTA-74411	101.424	84086946	
5	ARS-BFGL-NGS-73495	101.4666	84191490	
5	ARS-BFGL-NGS-6210	101.4821	84229576	
5	Hapmap39359-BTA-89420	101.5409	84374008	
5	ARS-BFGL-NGS-103280	101.6018	84523411	
5	BTA-74480-no-rs	101.6241	84578337	
5	BTA-74479-no-rs	101.6386	84613929	
5	Hapmap54538-rs29013879	101.6746	84702280	
5	Hapmap39328-BTA-40431	101.6909	84742302	
5	Hapmap49153-BTA-40430	101.6919	84744746	

5	BTA-45695-no-rs	101.7326	84844630	
5	ARS-BFGL-NGS-61587	101.772	84941287	
5	Hapmap43976-BTA-95999	101.7816	84964936	
5	ARS-BFGL-NGS-17920	101.8187	85056054	
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5	ARS-BFGL-NGS-71971	101.88	85216331	
5	BTA-74438-no-rs	101.88	85242380	
5	ARS-BFGL-NGS-39308	101.88	85288739	
5	ARS-BFGL-NGS-110708	101.88	85354353	
5	Hapmap49291-BTA-74445	101.88	85478402	
5	ARS-BFGL-NGS-39913	101.88	85535871	
5	Hapmap44404-BTA-74461	101.88	85574578	
5	Hapmap48069-BTA-74468	101.88	85614972	
5	Hapmap39862-BTA-74478	101.88	85672503	
5	Hapmap24213-BTA-161079	101.9403	85817422	
5	Hapmap33018-BTA-143352	101.9552	85837850	
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5	BTB-00233516	101.9909	85886632	
5	Hapmap48070-BTA-74497	102.0251	85933490	
5	BTA-74498-no-rs	102.0591	85980094	
5	BTA-74501-no-rs	102.176	86142655	
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5	ARS-BFGL-NGS-111850	102.411	86502735	
5	ARS-BFGL-NGS-54669	102.4635	86583204	
5	BTA-12098-rs29024062	102.5484	86713205	
5	ARS-BFGL-NGS-100028	102.5748	86753605	
5	Hapmap36729-SCAFFOLD106566_3245		102.6089	86805850
5	BTB-01497979	102.6583	86881651	
5	ARS-BFGL-NGS-44567	102.6995	86944659	
5	BTA-98431-no-rs	102.7132	86965652	
5	BTA-98442-no-rs	102.7343	86997963	
5	BTB-01042489	102.7508	87023231	
5	BTA-30092-no-rs	102.7691	87051322	
5	ARS-BFGL-NGS-73390	102.8035	87104035	
5	Hapmap48709-BTA-30108	102.8448	87167295	
5	BTA-123417-no-rs	102.8828	87225487	
5	Hapmap59791-rs29012671	102.9268	87293000	
5	ARS-BFGL-NGS-85748	102.9899	87389613	
5	BTB-02020184	103.0143	87426979	
5	ARS-BFGL-NGS-11173	103.0878	87539543	
5	BTB-00143422	103.1264	87598690	
5	Hapmap59202-rs29011704	103.14	87843519	
5	ARS-BFGL-NGS-55067	103.14	87867531	
5	BTB-00232920	103.14	87904220	
5	Hapmap38347-BTA-74361	103.14	87926197	
5	BTB-00232943	103.14	87966409	
5	Hapmap51627-BTA-74367	103.14	88015029	
5	Hapmap41929-BTA-66620	103.14	88105584	
5	BTA-74371-no-rs	103.14	88188462	
5	BTB-01858480	103.14	88249394	
5	ARS-BFGL-NGS-111576	103.14	88276496	
5	BTB-00234784	103.14	88311948	
5	ARS-BFGL-NGS-15506	103.14	88334676	
5	BTB-00234759	103.14	88359142	
5	BTA-98453-no-rs	103.14	88436433	
5	BTB-00234696	103.14	88527947	
5	BTB-00234287	103.14	88571326	
5	BTA-74527-no-rs	103.14	88593787	
5	BTB-01602960	103.1841	88626757	

5	BTA-107103-no-rs	103.2466	88659509
5	ARS-BFGL-NGS-102831	103.4153	88747918
5	BTB-01278164	103.4701	88776643
5	Hapmap47877-BTA-16771	103.5281	88807061
5	ARS-BFGL-NGS-43980	103.6654	88878999
5	BTB-01278055	103.7232	88909270
5	Hapmap58253-rs29024365	103.7924	88945532
5	Hapmap59389-rs29023212	103.8561	88978964
5	ARS-BFGL-NGS-103973	104.0216	89065689
5	ARS-BFGL-NGS-14937	104.0852	89098980
5	BTB-01277849	104.1672	89141967
5	BTB-01277835	104.2083	89163506
5	BTB-01467496	104.54	89349781
5	BTB-01267305	104.54	89425557
5	Hapmap47861-BTA-120563	104.54	89472174
5	BTB-01267080	104.54	89512928
5	BTB-01267098	104.54	89545151
5	BTB-01267042	104.54	89568937
5	ARS-BFGL-NGS-111627	104.54	89682685
5	ARS-BFGL-NGS-45551	104.54	89793252
5	ARS-BFGL-NGS-35776	104.7842	89853080
5	ARS-BFGL-NGS-31236	104.8444	89953588
5	ARS-BFGL-NGS-32643	104.8745	90003842
5	ARS-BFGL-NGS-60648	104.9008	90047789
5	ARS-BFGL-NGS-113558	104.9251	90088313
5	Hapmap42147-BTA-23954	104.983	90185045
5	Hapmap49801-BTA-93284	105.0088	90228217
5	BTA-74541-no-rs	105.025	90255244
5	Hapmap50772-BTA-74551	105.035	90271919
5	BTA-61857-no-rs	105.0652	90322318
5	Hapmap53828-rs29010421	105.0798	90346816
5	Hapmap42271-BTA-61859	105.0977	90376600
5	Hapmap50055-BTA-61862	105.1169	90408687
5	ARS-BFGL-NGS-58101	105.1389	90445432
5	ARS-BFGL-NGS-118221	105.2573	90684739
5	BTA-25368-no-rs	105.2702	90715554
5	ARS-BFGL-NGS-111077	105.2857	90752558
5	ARS-BFGL-NGS-116711	105.3084	90806866
5	BTA-05125-rs29019289	105.3331	90866134
5	ARS-BFGL-NGS-365	105.3777	90972920
5	BTA-111859-no-rs	105.4	91044792
5	Hapmap23365-BTA-156277	105.4	91118692
5	ARS-BFGL-NGS-1939	105.4	91235111
5	BTA-111865-no-rs	105.4	91262694
5	Hapmap60862-rs29018508	105.4	91320953
5	Hapmap39103-BTA-111886	105.4	91346899
5	ARS-BFGL-NGS-100808	105.4	91408594
5	ARS-BFGL-NGS-64874	105.4	91436307
5	Hapmap41431-BTA-111895	105.4001	91471989
5	BTA-111858-no-rs	105.4069	91494429
5	ARS-BFGL-NGS-103415	105.425	91553607
5	Hapmap51546-BTA-109428	105.4487	91631114
5	BTA-109425-no-rs	105.4632	91678519
5	Hapmap48620-BTA-113306	105.5002	91799509
5	ARS-BFGL-NGS-108617	105.5092	91829138
5	ARS-BFGL-NGS-111260	105.5454	91947526
5	Hapmap38581-BTA-15564	105.5482	91956694
5	Hapmap42839-BTA-120583	105.5728	92036955
5	BTA-15558-no-rs	105.5907	92074297

5	BTA-15560-no-rs	105.623	92115327	
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5	Hapmap33512-BTA-158274	105.7551	92283403	
5	Hapmap43797-BTA-17694	105.947	92527538	
5	Hapmap49071-BTA-17699	106.0185	92618397	
5	Hapmap43798-BTA-17697	106.0719	92686353	
5	BTA-23605-no-rs	106.1963	92844631	
5	Hapmap34380-BES4_Contig293_1272		106.2839	92955993
5	ARS-BFGL-NGS-41698	106.3662	93060740	
5	Hapmap29299-BTA-100895	106.392	93093486	
5	BTA-37832-no-rs	106.4492	93166211	
5	BTA-37834-no-rs	106.4655	93187014	
5	ARS-BFGL-NGS-116999	106.4957	93225456	
5	Hapmap36414-SCAFFOLD150043_20489		106.7645	93567346
5	Hapmap51304-BTA-74559	106.8834	93718582	
5	Hapmap32415-BTA-74556	107.0034	93871154	
5	ARS-BFGL-NGS-95906	107.0418	93920010	
5	BTA-94299-no-rs	107.0579	93940507	
5	ARS-BFGL-NGS-119672	107.1172	94015986	
5	Hapmap39388-BTA-18316	107.2751	94216856	
5	ARS-BFGL-NGS-111443	107.3164	94269370	
5	ARS-BFGL-NGS-2762	107.4043	94381154	
5	BTA-74586-no-rs	107.477	94473586	
5	BTA-74585-no-rs	107.4953	94496854	
5	BTA-74583-no-rs	107.5114	94517415	
5	BTA-74580-no-rs	107.5289	94539573	
5	Hapmap49734-BTA-74577	107.5534	94570828	
5	Hapmap41349-BTA-74576	107.5745	94597691	
5	Hapmap53294-rs29016908	107.6123	94645698	
5	ARS-BFGL-NGS-20806	107.7133	94774194	
5	Hapmap40635-BTA-104832	107.7795	94858411	
5	Hapmap55636-rs29018542	107.8195	94909330	
5	Hapmap45270-BTA-30512	107.8956	95006068	
5	ARS-BFGL-NGS-103226	107.9913	95127795	
5	Hapmap48071-BTA-74589	108.0086	95149822	
5	Hapmap60021-ss46526426	108.2523	95459836	
5	ARS-BFGL-NGS-35158	108.2772	95491399	
5	BTA-02708-no-rs	108.2968	95516387	
5	UA-IFASA-6009	108.3985	95645754	
5	UA-IFASA-6544	108.4147	95666368	
5	ARS-BFGL-NGS-116897	108.4755	95743746	
5	BTA-74596-no-rs	108.7916	96166308	
5	Hapmap47720-BTA-74597	108.8094	96190402	
5	Hapmap36106-SCAFFOLD22038_1672		108.8657	96266781
5	ARS-BFGL-NGS-40927	108.9806	96422792	
5	Hapmap51915-BTA-74618	109.0228	96479969	
5	ARS-BFGL-NGS-55001	109.0874	96567714	
5	ARS-BFGL-NGS-104787	109.0979	96581874	
5	ARS-BFGL-NGS-26708	109.1283	96623157	
5	ARS-BFGL-NGS-117040	109.1674	96676301	
5	ARS-BFGL-NGS-119645	109.1924	96710090	
5	ARS-BFGL-NGS-27184	109.2092	96732914	
5	ARS-BFGL-NGS-29237	109.2305	96761879	
5	ARS-BFGL-NGS-29517	109.3189	96881813	
5	ARS-BFGL-NGS-61040	109.3363	96905414	
5	ARS-BFGL-NGS-31148	109.3793	96963752	
5	Hapmap28380-BTA-74649	109.4144	97011384	
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5	ARS-BFGL-NGS-44153	109.7236	97430973		
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5	ARS-BFGL-NGS-5761	109.7676	97490658		
5	ARS-BFGL-NGS-114591	109.797	97530532		
5	Hapmap52734-rs29013367	109.8136	97553145		
5	ARS-BFGL-NGS-52423	109.8434	97593586		
5	UA-IFASA-8685	109.9632	97756059		
5	Hapmap58633-rs29009713	110.0167	97828652		
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5	ARS-BFGL-NGS-101806	110.0579	97884594		
5	ARS-BFGL-NGS-73099	110.0733	97905449		
5	Hapmap53773-ss46526912	110.1052	97948752		
5	ARS-USMARC-Parent-AY844963-rs17871338	110.2184	98102349		
5	Hapmap43671-BTA-74719	110.2222	98107528		
5	ARS-BFGL-NGS-107423	110.4892	98293768		
5	Hapmap59520-rs29021624	110.5046	98317683		
5	ARS-BFGL-NGS-110933	110.5181	98338510		
5	Hapmap46939-BTA-114206	110.5999	98465145		
5	ARS-BFGL-NGS-27838	110.6323	98515360		
5	Hapmap47511-BTA-114200	110.6739	98579869		
5	ARS-BFGL-NGS-88309	110.6988	98618390		
5	Hapmap42391-BTA-04861	110.7472	98693360		
5	ARS-BFGL-NGS-103839	110.786	98753414		
5	ARS-BFGL-NGS-116729	110.8179	98802828		
5	Hapmap50230-BTA-114181	110.8401	98837246		
5	Hapmap47185-BTA-114173	110.974	99044605		
5	ARS-BFGL-NGS-100563	110.9956	99077991		
5	BTA-114209-no-rs	111.0094	99099385		
5	Hapmap49867-BTA-114191	111.0284	99128798		
5	ARS-BFGL-NGS-115275	111.0447	99154068		
5	Hapmap28060-BTA-162691	111.1128	99259443		
5	Hapmap33376-BTA-150433	111.1938	99384838		
5	BTA-110472-no-rs	111.2273	99436717		
5	ARS-BFGL-NGS-46783	111.2528	99476251		
5	ARS-BFGL-NGS-108996	111.286	99527745		
5	Hapmap52014-BTA-90653	111.313	99569438		
5	UA-IFASA-6587	111.4485	100033129		
5	Hapmap41958-BTA-74707	111.4707	100139180		
5	UA-IFASA-6670	111.4847	100206147		
5	ARS-BFGL-NGS-80085	111.4866	100215381		
5	ARS-USMARC-172	111.4927	100244820		
5	Hapmap49837-BTA-104960	111.5158	100355147		
5	Hapmap41959-BTA-74725	111.5233	100390932		
5	ARS-BFGL-NGS-111323	111.5362	100452647		
5	ARS-BFGL-NGS-114092	111.5447	100493514		
5	Hapmap55098-rs29011152	111.5775	100650026		
5	ARS-BFGL-NGS-37981	111.6089	100800335		
5	Hapmap48257-BTA-24329	111.6288	100887354		
5	BTA-74733-no-rs	111.6906	101124171		
5	BTA-74798-no-rs	111.729	101271357		
5	ARS-USMARC-244	111.7391	101309988		
5	ARS-USMARC-226	111.7483	101345410		
5	BTA-74811-no-rs	111.7556	101373334		
5	ARS-BFGL-NGS-16242	111.7614	101395566		
5	BTA-74737-no-rs	111.7687	101423415		
5	Hapmap25949-BTA-74741	111.7755	101449625		

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5	ARS-BFGL-NGS-81143	111.8265	101644908	
5	ARS-BFGL-NGS-75847	111.8465	101721892	
5	ARS-BFGL-NGS-14939	111.8639	101788321	
5	Hapmap36373-SCAFFOLD248777_1273		111.8706	101813991
5	ARS-BFGL-NGS-57509	111.8879	101880447	
5	Hapmap48229-BTA-15460	111.9124	101974400	
5	ARS-BFGL-NGS-25950	111.9324	102050795	
5	BTA-15449-no-rs	111.9413	102084969	
5	ARS-BFGL-NGS-90522	111.9646	102174236	
5	BTA-15444-no-rs	111.9852	102253486	
5	Hapmap3063-BTA-15439	111.9996	102308562	
5	ARS-BFGL-NGS-116218	112.1255	102723706	
5	ARS-BFGL-NGS-29206	112.14	102779831	
5	ARS-BFGL-NGS-40945	112.14	102855072	
5	Hapmap40294-BTA-89295	112.14	102954266	
5	BTA-74753-no-rs	112.3665	103472289	
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5	ARS-BFGL-NGS-1422	112.4287	103539042	
5	ARS-BFGL-NGS-101402	112.4699	103583249	
5	ARS-BFGL-NGS-30033	112.5413	103659884	
5	Hapmap49735-BTA-74776	112.58	103821233	
5	ARS-BFGL-NGS-678	112.58	103860658	
5	ARS-BFGL-NGS-18320	112.58	103911258	
5	Hapmap23759-BTA-143449	112.58	103957794	
5	ARS-BFGL-NGS-118997	112.6026	104038847	
5	ARS-BFGL-NGS-52457	112.6514	104116518	
5	Hapmap47396-BTA-74821	112.6667	104140809	
5	ARS-BFGL-NGS-26592	112.6964	104188186	
5	ARS-USMARC-201	112.723	104230386	
5	ARS-BFGL-NGS-43407	112.846	104426051	
5	BTB-00236217	112.8771	104502658	
5	UA-IFASA-8960	112.8877	104536158	
5	ARS-BFGL-NGS-67983	112.9033	104585591	
5	UA-IFASA-8535	112.9266	104659347	
5	ARS-BFGL-NGS-21168	112.9338	104682238	
5	ARS-BFGL-NGS-99256	112.944	104714350	
5	Hapmap31228-BTA-74842	112.97	104796659	
5	BTA-74836-no-rs	112.9781	104822373	
5	ARS-BFGL-NGS-68670	112.9846	104843055	
5	BTB-02050304	113.0099	104923011	
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5	Hapmap48155-BTA-101916	113.03	105105448	
5	ARS-BFGL-NGS-54841	113.03	105128091	
5	ARS-BFGL-NGS-110506	113.03	105152085	
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5	Hapmap46867-BTA-74870	113.03	105275043	
5	ARS-BFGL-NGS-42687	113.03	105288314	
5	ARS-BFGL-NGS-102312	113.03	105337527	
5	Hapmap40496-BTA-121703	113.03	105368208	
5	ARS-BFGL-NGS-32818	113.03	105387546	
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5	ARS-BFGL-NGS-37546	113.03	105566298	
5	BTB-00237470	113.03	105621447	
5	ARS-BFGL-NGS-98808	113.03	105664687	



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5	Hapmap60480-ss46526970	113.1133	105870613	
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5	ARS-BFGL-NGS-54496	113.3731	106178425	
5	BTA-74881-no-rs	113.4171	106230591	
5	ARS-BFGL-NGS-39379	113.4499	106269362	
5	ARS-BFGL-NGS-98420	113.5391	106375105	
5	Hapmap48072-BTA-74891	113.5649	106405677	
5	BTA-74897-no-rs	113.64	106495211	
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5	ARS-BFGL-NGS-111020	113.6448	106558376	
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5	ARS-BFGL-NGS-2465	114.7996	106977557	
5	ARS-BFGL-NGS-33993	114.8257	107031270	
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5	ARS-BFGL-NGS-93667	114.8599	107141795	
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5	ARS-BFGL-NGS-40451	114.8749	107190274	
5	ARS-BFGL-NGS-56864	114.8841	107220093	
5	ARS-BFGL-NGS-112741	114.8911	107242527	
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5	ARS-BFGL-NGS-25555	114.9097	107302660	
5	ARS-BFGL-NGS-114373	114.9205	107337573	
5	Hapmap57466-rs29018274	114.9283	107362671	
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5	ARS-BFGL-NGS-36738	114.9479	107426006	
5	Hapmap38434-BTA-74956	114.9559	107451881	
5	ARS-BFGL-NGS-30836	114.9677	107489920	
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5	ARS-BFGL-NGS-51381	114.9875	107553915	
5	ARS-BFGL-NGS-16163	114.9988	107590490	
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5	ARS-BFGL-NGS-41499	115.0343	107704991	
5	Hapmap59652-rs29010247	115.055	107771913	
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5	ARS-BFGL-NGS-117102	115.0895	107883149	
5	ARS-BFGL-NGS-118406	115.1021	107923893	
5	ARS-BFGL-NGS-27066	115.109	107946258	
5	ARS-BFGL-NGS-17216	115.121	107984945	
5	Hapmap53295-rs29016976	115.132	108020379	
5	BTA-112651-no-rs	115.1422	108053565	
5	Hapmap36643-SCAFFOLD192091_9031	115.1589	108107405	
5	Hapmap26794-BTA-74957	115.1629	108120416	
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5	Hapmap54047-ss46526768	115.1903	108208913	
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5	ARS-BFGL-NGS-57681	115.219	108301599	
5	Hapmap34169-BES10_Contig488_621	115.2376	108361582	
5	BTA-74965-no-rs	115.2461	108388961	

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5	Hapmap43033-BTA-74963	115.281	108501660
5	Hapmap51306-BTA-74962	115.2879	108524147
5	BTA-05249-no-rs	115.2963	108551135
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5	ARS-BFGL-NGS-91167	115.349	108721301
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5	ARS-BFGL-NGS-40280	115.4316	108987909
5	ARS-BFGL-NGS-118038	115.4429	109024613
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5	ARS-BFGL-NGS-14293	115.6574	109229225
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5	ARS-BFGL-NGS-29150	115.7759	109333059
5	UA-IFASA-6163	115.9654	109499140
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5	Hapmap52801-ss46526219	116.1201	109634728
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5	BTB-01610214	116.7769	110275795
5	ARS-BFGL-NGS-61240	116.81	110300207
5	ARS-BFGL-NGS-101279	116.9558	110399710
5	ARS-BFGL-NGS-8293	117.0084	110435582
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5	ARS-BFGL-NGS-67358	117.114	110507617
5	Hapmap39945-BTA-75021	117.2004	110566595
5	ARS-BFGL-NGS-44260	117.2616	110608351
5	ARS-BFGL-NGS-32612	117.3546	110671789
5	ARS-BFGL-NGS-13748	117.402	110704158
5	Hapmap50089-BTA-75090	117.4498	110736757
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5	ARS-BFGL-NGS-24956	117.6698	110886859
5	BTA-75083-no-rs	117.7048	110910712
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5	ARS-BFGL-NGS-43800	117.8102	110982640
5	ARS-BFGL-NGS-35689	117.9612	111079258
5	ARS-BFGL-NGS-15778	118.1208	111227019
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5	Hapmap36585-SCAFFOLD135556_32619		118.1245	111475526
5	ARS-BFGL-NGS-81456	118.1256	111547059	
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5	ARS-BFGL-NGS-104808	118.127	111635921	
5	ARS-BFGL-NGS-3924	118.1281	111709914	
5	ARS-BFGL-NGS-43376	118.1293	111790193	
5	BTA-75067-no-rs	118.13	111836264	
5	ARS-BFGL-NGS-37823	118.1462	111858987	
5	ARS-BFGL-NGS-112482	118.1653	111884371	
5	ARS-BFGL-NGS-100816	118.1845	111909943	
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5	Hapmap60420-rs29010136	118.2867	112045991	
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5	ARS-BFGL-NGS-105727	118.3421	112119760	
5	ARS-BFGL-NGS-58949	118.4448	112256580	
5	BTA-75110-no-rs	118.4986	112328104	
5	Hapmap23876-BTA-143610	118.5333	112374372	
5	ARS-BFGL-NGS-21778	118.6071	112472630	
5	ARS-BFGL-NGS-10616	118.6239	112494968	
5	ARS-BFGL-NGS-45453	118.6441	112521878	
5	ARS-BFGL-NGS-102035	118.6963	112591306	
5	BTA-75143-no-rs	118.7382	112647134	
5	Hapmap43184-BTA-13767	118.7679	112686649	
5	Hapmap51629-BTA-75152	118.78	112729130	
5	ARS-BFGL-NGS-116417	118.78	112775479	
5	ARS-BFGL-NGS-78714	118.811	112912918	
5	ARS-BFGL-NGS-80020	118.844	112945811	
5	Hapmap58690-rs29019746	118.8773	112978999	
5	ARS-BFGL-NGS-58126	118.9389	113040432	
5	BTA-75165-no-rs	118.9733	113074715	
5	Hapmap25014-BTA-123017	118.9987	113100000	
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5	BTA-75130-no-rs	119.3351	113435256	
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5	ARS-BFGL-NGS-7380	119.3992	113499150	
5	ARS-BFGL-NGS-119376	119.5124	113611955	
5	ARS-BFGL-NGS-31332	119.6387	113737833	
5	ARS-BFGL-NGS-113238	119.65	113761140	
5	ARS-BFGL-NGS-33155	119.65	113787757	
5	ARS-BFGL-NGS-43084	119.65	113817271	
5	ARS-BFGL-NGS-16866	119.65	113841700	
5	ARS-BFGL-NGS-15922	119.65	113874131	
5	ARS-BFGL-NGS-104465	119.65	113914967	
5	ARS-BFGL-NGS-117719	119.65	114010785	
5	ARS-BFGL-NGS-109212	119.65	114042655	
5	Hapmap57211-rs29026125	119.766	114290454	
5	ARS-BFGL-NGS-4894	119.8181	114355659	
5	Hapmap41631-BTA-75177	119.8576	114405063	
5	ARS-BFGL-NGS-3939	119.8793	114440233	
5	Hapmap49920-BTA-23327	119.8951	114473220	
5	ARS-BFGL-NGS-25270	119.9077	114499520	
5	ARS-BFGL-NGS-44354	119.9285	114543256	
5	ARS-BFGL-NGS-6559	119.9532	114594935	
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5	ARS-BFGL-NGS-111201	120.3412	115146217
5	ARS-BFGL-NGS-93481	120.5041	115223183
5	ARS-BFGL-NGS-22069	120.5735	115255985
5	BTA-75208-no-rs	120.6224	115279103
5	ARS-BFGL-NGS-37234	120.7375	115333478
5	ARS-BFGL-NGS-36425	120.8127	115369024
5	ARS-BFGL-NGS-82062	120.8774	115399602
5	ARS-BFGL-NGS-1315	120.9273	115423180
5	ARS-BFGL-NGS-85355	120.9977	115456438
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5	ARS-BFGL-NGS-38686	121.1059	115507553
5	ARS-BFGL-NGS-1069	121.1629	115534495
5	ARS-BFGL-NGS-100195	121.219	115561004
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5	ARS-BFGL-NGS-27282	123.3703	116577511
5	ARS-BFGL-NGS-69589	123.4566	116618305
5	ARS-BFGL-NGS-8495	123.5127	116644790
5	ARS-BFGL-NGS-66396	123.6035	116687733
5	Hapmap41080-BTA-75395	123.6644	116716495
5	ARS-BFGL-NGS-78419	123.7204	116742962
5	Hapmap58270-rs29018295	123.8049	116782874
5	ARS-BFGL-NGS-52236	123.8534	116805792
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5	ARS-BFGL-NGS-98565	123.9722	116861955
5	ARS-BFGL-NGS-54524	124	116915398
5	Hapmap46725-BTA-75375	124	116958538
5	ARS-BFGL-NGS-116103	124	116998195
5	ARS-BFGL-NGS-21717	124.1497	117102295
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5	ARS-BFGL-NGS-89264	124.3089	117194638
5	ARS-BFGL-NGS-18620	124.4005	117247824
5	ARS-BFGL-NGS-22655	124.7525	117738204
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5	ARS-BFGL-NGS-21635	124.7868	117795427

5	ARS-BFGL-NGS-16699	124.8036	117823521	
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5	ARS-BFGL-NGS-16090	124.8487	117898969	
5	ARS-BFGL-NGS-1466	124.8548	117909120	
5	ARS-BFGL-NGS-37762	124.8725	117938671	
5	ARS-BFGL-NGS-112849	124.8829	117956078	
5	ARS-BFGL-NGS-1089	124.9181	118014757	
5	Hapmap59748-rs29024200	124.9485	118065604	
5	ARS-BFGL-NGS-29924	124.9627	118089275	
5	ARS-BFGL-NGS-80676	124.98	118120746	
5	ARS-BFGL-NGS-6245	124.98	118184826	
5	ARS-BFGL-NGS-5260	124.98	118227089	
5	ARS-BFGL-NGS-112641	124.98	118269408	
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5	Hapmap40476-BTA-103234	124.98	118733210	
5	ARS-BFGL-NGS-116759	124.98	118757624	
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5	ARS-BFGL-NGS-44026	124.98	118848392	
5	ARS-BFGL-NGS-100690	124.98	118882023	
5	BTA-32202-no-rs	124.98	118906453	
5	Hapmap42757-BTA-99810	124.98	118960375	
5	ARS-BFGL-NGS-17943	124.98	118982815	
5	Hapmap40623-BTA-99811	124.98	119041422	
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5	ARS-BFGL-NGS-82989	125.35	119139076	
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5	ARS-BFGL-NGS-34063	125.35	119221776	
5	ARS-BFGL-NGS-115195	125.35	119235517	
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5	Hapmap47809-BTA-102708	125.35	119325698	
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5	ARS-BFGL-NGS-26994	125.35	119820680	
5	ARS-BFGL-NGS-56909	125.35	119853322	
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5	Hapmap48075-BTA-75442	125.35	120351223	
5	ARS-BFGL-NGS-14121	125.35	120378417	
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5	ARS-BFGL-NGS-4826	125.4026	120488313	
5	Hapmap47097-BTA-75439	125.437	120520736	
5	ARS-BFGL-NGS-114643	125.4716	120553341	
5	ARS-BFGL-NGS-101645	125.5011	120581133	
5	ARS-BFGL-NGS-110517	125.5334	120611631	
5	BTB-02005118	125.5503	120627506	
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5	ARS-BFGL-NGS-86033	125.6471	120718722	
5	ARS-BFGL-NGS-17222	125.6702	120741788	
5	ARS-BFGL-NGS-109490	125.7097	120783915	
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5	BTB-00239812	126.0399	121135969	
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6	BTB-01518538	0	202769	
6	BTB-01518507	0	231013	
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6	BTB-01573053	0	363111	
6	BTA-22026-no-rs	0	400821	
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6	BTB-01812945	0	551383	
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6	BTA-88049-no-rs	0	643965	
6	BTA-88044-no-rs	0	684934	
6	Hapmap43391-BTA-88040	0	730937	
6	Hapmap43104-BTA-94049	0.1748048	782857	
6	BTB-01645778	0.5158851	842324	
6	Hapmap41427-BTA-110169	0.6987424	874205	
6	Hapmap46959-BTA-16945	0.8795923	905736	
6	BTB-01796690	1.070474	939016	
6	BTA-119334-no-rs	1.263042	972590	
6	BTB-01384704	1.501965	1014246	
6	BTB-01384667	1.650035	1040062	
6	BTA-100484-no-rs	1.796064	1065522	
6	Hapmap46514-BTA-122322	1.942466	1091047	
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6	Hapmap39802-BTA-105908	2.278574	1149647	
6	ARS-BFGL-NGS-74563	2.474416	1183792	
6	ARS-BFGL-NGS-16502	2.900998	1258166	
6	BTB-01486995	3.172688	1305535	
6	BTB-01461517	3.325439	1332167	
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6	BTB-01744782	5.430737	1886476	
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6	Hapmap42078-BTA-115052	5.94256	2084530
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6	BTB-01692181	6.612566	2343794
6	Hapmap50164-BTA-94741	6.689298	2373486
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6	BTB-01710018	6.956918	2477044
6	BTA-94737-no-rs	7.235628	2584893
6	Hapmap59720-rs29025265	7.383345	2642053
6	Hapmap45579-BTA-77250	7.942568	2858449
6	Hapmap53068-rs29026861	8.155392	2940803
6	Hapmap51857-BTA-76766	8.281594	2989638
6	Hapmap30828-BTA-143720	8.337097	3011115
6	BTB-00240524	8.392769	3032658
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6	BTB-00240453	8.550314	3093621
6	Hapmap52832-rs29014980	8.695319	3149732
6	ARS-BFGL-NGS-40020	8.973331	3257311
6	Hapmap53408-rs29014449	9.125542	3316210
6	Hapmap39586-BTA-78225	9.298173	3383011
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6	Hapmap59897-ss46526887	9.793814	3574803
6	Hapmap23359-BTA-143727	9.895967	3614332
6	BTB-01718787	10.02789	3665381
6	BTB-01790614	10.18651	3726761
6	BTA-16306-no-rs	10.26109	3755618
6	BTA-20584-no-rs	10.32496	3780334
6	BTB-01850027	10.3886	3804960
6	Hapmap59227-rs29015185	10.51605	3854279
6	BTB-01604595	10.58704	3881747
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6	ARS-BFGL-NGS-87162	10.79407	3961860
6	Hapmap30881-BTA-159706	10.87815	3994395
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6	ARS-BFGL-NGS-62243	11.29685	4156416
6	BTB-01280976	11.3	4193024
6	BTB-01281052	11.3	4217935
6	BTB-01281130	11.3	4255214
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6	ARS-BFGL-NGS-77840	11.36761	4310838
6	Hapmap46779-BTA-17103	11.42883	4334044
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6	ARS-BFGL-NGS-53485	11.56687	4386362
6	BTB-00241732	11.73033	4448316
6	BTB-00241772	11.81787	4481497
6	BTB-00241906	11.99541	4548788
6	ARS-BFGL-NGS-64902	12.0788	4580393
6	BTB-02041372	12.22801	4636950

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6	ARS-BFGL-NGS-107589	13.52831	5129787	
6	BTA-101239-no-rs	13.65409	5177464	
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6	BTB-00243004	17.75182	6807282	
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6	BTB-01596303	18.24958	6955308	
6	BTB-01596116	18.28666	6986109	
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6	BTB-00243324	18.54045	7196887	
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6	ARS-BFGL-NGS-52934	18.76886	7363787	
6	BTA-121723-no-rs	18.94947	7407786	
6	ARS-BFGL-NGS-40701	19.1891	7474138	
6	Hapmap58359-rs29011329	19.26616	7514029	
6	ARS-BFGL-NGS-23052	19.34551	7555102	
6	BTB-01947097	19.40863	7587776	
6	ARS-BFGL-NGS-107847	19.4603	7614521	
6	BTB-01819118	19.50912	7639790	
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6	ARS-BFGL-NGS-82737	19.65246	7713990	
6	ARS-BFGL-NGS-53927	19.7531	7766085	
6	BTB-00242939	19.79269	7786578	
6	BTB-00242823	19.84187	7812039	
6	BTB-01868870	20.01722	7902806	
6	BTB-00242750	20.09912	7945202	
6	BTB-00242660	20.14515	7969025	
6	Hapmap41082-BTA-76030	20.26555	8035543	
6	Hapmap25835-BTA-143733	20.33883	8077548	
6	ARS-BFGL-NGS-105221	20.38499	8104004	
6	ARS-BFGL-NGS-109742	20.50153	8171110	
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6	BTB-00242396	20.72449	8344354	
6	BTB-00242361	20.7662	8376759	
6	BTA-75844-no-rs	20.79767	8401211	
6	Hapmap32986-BTA-123124	20.82451	8422067	
6	Hapmap50460-BTA-75791	20.89117	8478503	
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6	BTA-01945-rs29012898	21.1504	8718507	
6	BTA-76544-no-rs	21.25001	8810726	
6	BTB-01566622	21.46663	8979081	
6	BTA-111604-no-rs	21.6316	9062503	
6	BTB-02022899	21.71731	9105841	
6	BTB-02056620	21.80211	9148724	
6	BTB-01862702	21.95903	9228072	
6	BTB-02076550	22.07653	9287488	
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6	ARS-BFGL-NGS-408	22.30823	9404648
6	BTA-87678-no-rs	22.48344	9493248
6	BTB-01068781	22.5447	9524226
6	Hapmap52683-rs29016228	22.59653	9550431
6	BTB-01068806	22.7181	9611905
6	BTA-104961-no-rs	22.76066	9633428
6	ARS-BFGL-NGS-3742	22.91795	9712964
6	BTA-104962-no-rs	22.96417	9736332
6	BTB-01068898	23.12374	9817021
6	Hapmap44182-BTA-104972	23.44829	9981135
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6	BTB-02072696	23.69344	10105101
6	BTB-01645485	23.90392	10199636
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6	BTB-02016906	24.23689	10342273
6	BTB-01718894	24.33655	10384966
6	BTB-01718868	24.42978	10424905
6	BTB-01939106	24.70329	10542071
6	BTB-01322180	24.77456	10572605
6	BTB-01322092	24.85988	10609153
6	BTA-10940-no-rs	24.9283	10638463
6	BTB-01322000	24.97792	10659718
6	BTA-22613-no-rs	25.11047	10716501
6	Hapmap32397-BTA-18899	25.21383	10760779
6	BTB-01827197	25.27424	10786656
6	Hapmap42479-BTA-22862	25.34226	10815795
6	BTB-01879337	25.39557	10838635
6	Hapmap52732-rs29023384	25.47839	10874111
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6	BTB-02002084	25.73542	10984220
6	BTA-88441-no-rs	25.82928	11024427
6	BTA-27165-no-rs	25.896	11053007
6	BTB-00244030	26.06065	11123540
6	ARS-BFGL-NGS-40615	26.12469	11150974
6	BTB-00243966	26.2645	11210868
6	BTA-76730-no-rs	26.31373	11231957
6	BTB-00243897	26.54504	11331047
6	BTB-01932115	26.62012	11363207
6	ARS-BFGL-NGS-38131	26.81741	11447723
6	Hapmap28097-BTA-150010	26.98999	11521655
6	BTB-01447507	27.02774	11537824
6	Hapmap42010-BTA-93975	27.10505	11570944
6	BTB-01447775	27.16311	11595816
6	ARS-BFGL-NGS-115734	27.34064	11671868
6	BTB-01981717	27.42718	11708937
6	Hapmap40034-BTA-93974	27.51496	11746541
6	ARS-BFGL-NGS-118585	27.6774	11816127
6	Hapmap31788-BTA-149223	27.85888	11893872
6	Hapmap49749-BTA-76609	27.97099	11941895
6	Hapmap44566-BTA-76618	28.10317	11998522
6	ARS-BFGL-NGS-101775	28.21079	12044622
6	BTB-00883514	28.29397	12080255
6	Hapmap54432-rs29022442	28.38453	12119048
6	BTB-01545287	28.44732	12145946
6	ARS-BFGL-NGS-27865	28.5014	12169113
6	BTB-01545399	28.58157	12203460
6	Hapmap28104-BTA-156698	28.71785	12261839

6	BTB-01685239	28.76697	12282881		
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6	Hapmap23501-BTA-155913	29.00175	12383455		
6	Hapmap50219-BTA-112693	29.06863	12412107		
6	BTA-112689-no-rs	29.15013	12447020		
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6	BTA-88018-no-rs	29.41024	12558447		
6	Hapmap26355-BTA-123034	29.51405	12602914		
6	Hapmap42836-BTA-120227	29.57166	12627595		
6	BTB-01968603	29.62037	12648459		
6	Hapmap50605-BTA-16738	29.66842	12669044		
6	Hapmap59328-rs29016355	29.74909	12703601		
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6	ARS-BFGL-NGS-34846	29.91055	12772767		
6	BTB-00103730	29.98448	12804438		
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6	BTB-01317228	30.30714	13012206		
6	BTA-22128-no-rs	30.33937	13040713		
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6	Hapmap47406-BTA-77006	30.45811	13145751		
6	ARS-BFGL-NGS-33992	30.50349	13185892		
6	BTB-00244322	30.53294	13211945		
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6	BTB-01204634	30.62741	13295514		
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6	BTA-110014-no-rs	30.72512	13381944		
6	BTB-01204750	30.7653	13417489		
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6	BTB-00244579	30.86177	13502824		
6	BTA-12871-rs29024817	30.93688	13569263		
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6	BTB-01791576	31.03399	13745976		
6	ARS-BFGL-NGS-54418	31.06969	13821353		
6	ARS-BFGL-NGS-92177	31.10428	13894408		
6	ARS-USMARC-Parent-DQ647190-rs29013632	31.10554	13897068		
6	Hapmap23888-BTA-155071	31.11566	13918445		
6	BTA-77361-no-rs	31.14172	13973477		
6	ARS-BFGL-NGS-116085	31.17243	14038332		
6	ARS-BFGL-NGS-112760	31.1994	14065611		
6	Hapmap58993-rs29021212	31.24964	14094866		
6	ARS-BFGL-NGS-113393	31.39442	14179168		
6	BTB-00245001	31.44796	14209617		
6	ARS-BFGL-NGS-106305	31.59131	14290917		
6	BTB-00244883	31.68028	14341377		
6	ARS-BFGL-NGS-34357	31.74393	14377471		
6	ARS-BFGL-NGS-19872	31.86003	14419369		
6	BTB-00244629	31.96086	14449728		
6	BTA-111520-no-rs	32.15598	14508481		
6	ARS-BFGL-NGS-117043	32.45114	14597357		
6	BTB-01726114	32.56992	14633122		
6	Hapmap53442-rs29021218	32.70682	14674345		
6	Hapmap56771-rs29024201	33.17337	14814828		
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6	BTA-90783-no-rs	33.27	14889808
6	Hapmap27184-BTA-149565	33.27	14930138
6	ARS-BFGL-NGS-111448	33.27	15003546
6	ARS-BFGL-NGS-36776	33.27	15068460
6	Hapmap48120-BTA-90771	33.27	15090079
6	BTB-01123173	33.36109	15138307
6	BTA-90785-no-rs	33.74318	15176239
6	Hapmap27487-BTA-90787	34.12589	15214233
6	ARS-BFGL-NGS-119888	34.51516	15252879
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6	BTA-90790-no-rs	34.61	15329526
6	ARS-BFGL-NGS-116270	34.61	15350850
6	BTB-01123443	34.61081	15391410
6	ARS-BFGL-NGS-43780	34.63567	15437125
6	ARS-BFGL-NGS-1358	34.66143	15484522
6	BTB-01123876	34.69445	15545246
6	BTB-01123885	34.71346	15580216
6	ARS-BFGL-NGS-116880	34.72721	15605513
6	BTB-00245684	34.74269	15633977
6	ARS-BFGL-NGS-29553	34.76167	15668900
6	Hapmap58425-rs29021238	34.77869	15700204
6	Hapmap51807-BTA-116458	34.80422	15747169
6	ARS-BFGL-NGS-56496	34.83775	15808841
6	Hapmap49756-BTA-78187	34.88247	15891103
6	Hapmap38696-BTA-78192	34.92975	15978059
6	Hapmap49307-BTA-78198	35.01704	16085913
6	BTA-78200-no-rs	35.10121	16120969
6	BTB-00247173	35.22237	16171428
6	ARS-BFGL-NGS-2588	35.52804	16327200
6	ARS-BFGL-NGS-90856	35.68088	16406501
6	BTB-01367308	35.78415	16440309
6	Hapmap49468-BTA-116730	36.05051	16514919
6	BTB-01919072	36.1506	16541679
6	ARS-BFGL-NGS-110788	36.2784	16575847
6	ARS-BFGL-NGS-35792	36.39558	16607178
6	Hapmap57201-rs29025372	36.50471	16636355
6	ARS-BFGL-NGS-25334	36.59816	16661341
6	BTB-00105321	36.83717	16725243
6	BTB-00243845	37.2	16850753
6	ARS-BFGL-NGS-105634	37.29087	16877946
6	BTA-63194-no-rs	37.45924	16922089
6	ARS-BFGL-NGS-65823	37.55904	16948256
6	ARS-BFGL-NGS-89778	37.65328	16972963
6	ARS-BFGL-NGS-51464	38.00428	17094708
6	BTB-01648819	38.03965	17134636
6	BTA-110589-no-rs	38.05912	17156620
6	BTA-110591-no-rs	38.07956	17179693
6	ARS-BFGL-NGS-110317	38.09996	17202722
6	BTB-00247326	38.1196	17224897
6	Hapmap32576-BTA-143817	38.171	17282916
6	BTB-00247385	38.21164	17328796
6	BTB-00247449	38.25527	17378057
6	BTB-00247494	38.28897	17416096
6	BTA-78204-no-rs	38.32469	17456425
6	ARS-BFGL-NGS-107549	38.35466	17490257
6	BTB-00247622	38.38344	17522751
6	BTB-00245693	38.40171	17543380
6	Hapmap44568-BTA-77505	38.43018	17563402
6	BTA-77526-no-rs	38.51226	17606774

6	BTB-00245802	38.57085	17637738	
6	UA-IFASA-6793	38.71084	17711711	
6	ARS-BFGL-NGS-41348	38.8218	17770346	
6	Hapmap48464-BTA-77646	38.99699	17862924	
6	Hapmap54435-rs29022514	39.07594	17904646	
6	ARS-BFGL-NGS-40548	39.32049	18033876	
6	ARS-BFGL-NGS-32713	39.45419	18104527	
6	ARS-BFGL-NGS-50393	39.50421	18130964	
6	ARS-BFGL-NGS-88477	39.57596	18168879	
6	Hapmap50491-BTA-85929	39.66122	18213934	
6	BTB-01365807	39.69931	18234064	
6	BTB-01365869	39.79935	18286930	
6	ARS-BFGL-NGS-80568	39.83751	18307093	
6	BTB-01365922	39.88631	18332881	
6	Hapmap34233-BES5_Contig600_1072		40.10418	18450433
6	ARS-BFGL-NGS-94258	40.17237	18488052	
6	BTA-29168-no-rs	40.21634	18512310	
6	ARS-BFGL-NGS-21524	40.3938	18623696	
6	ARS-BFGL-NGS-25804	40.42021	18653222	
6	Hapmap53612-rs29011400	40.48267	18723072	
6	ARS-BFGL-NGS-45046	40.50731	18750621	
6	ARS-BFGL-NGS-41699	40.61128	18866879	
6	BTA-77968-no-rs	40.63952	18898455	
6	BTB-00246400	40.7172	18985315	
6	BTB-01038669	40.7617	19035074	
6	Hapmap60777-rs29027003	40.78278	19058647	
6	Hapmap43552-BTA-31207	40.88778	19176059	
6	BTA-31201-no-rs	40.90644	19196925	
6	BTA-31193-no-rs	40.92506	19217749	
6	ARS-BFGL-NGS-112191	40.95016	19245812	
6	Hapmap57362-rs29014889	40.98066	19279917	
6	Hapmap54751-rs29013947	41.00557	19307772	
6	BTB-01038817	41.07966	19390619	
6	ARS-BFGL-NGS-19374	41.11144	19426158	
6	ARS-BFGL-NGS-91848	41.13431	19451737	
6	Hapmap51390-BTA-111807	41.16364	19484533	
6	ARS-BFGL-NGS-111408	41.19375	19518197	
6	BTB-02031673	41.24581	19576414	
6	BTA-114709-no-rs	41.29148	19627480	
6	Hapmap43772-BTA-114710	41.32933	19669809	
6	ARS-BFGL-NGS-11814	41.41845	19769454	
6	Hapmap38814-BTA-115768	41.50864	19870314	
6	BTB-01235703	41.53275	19897267	
6	Hapmap41757-BTA-115774	41.5514	19918122	
6	ARS-BFGL-NGS-110083	41.86189	20161016	
6	Hapmap49035-BTA-115769	41.95623	20191910	
6	Hapmap50239-BTA-115771	42.07083	20229434	
6	BTB-01785734	42.21548	20276795	
6	BTB-01785636	42.27839	20297397	
6	Hapmap50753-BTA-66069	42.37866	20330227	
6	BTB-01034664	42.44038	20350438	
6	ARS-BFGL-NGS-66490	42.51531	20374972	
6	ARS-BFGL-NGS-113831	42.68595	20430846	
6	BTB-01034634	42.82369	20475948	
6	ARS-BFGL-NGS-59175	42.84475	20507429	
6	BTB-01034609	42.87559	20568920	
6	BTB-01680436	42.93814	20693665	
6	Hapmap39903-BTA-24345	42.95671	20730690	
6	Hapmap41636-BTA-77903	43.01888	20854658	

6	BTA-77886-no-rs	43.04381	20904380		
6	BTB-00246256	43.05413	20924952		
6	ARS-BFGL-NGS-3820	43.06515	20946932		
6	BTB-00246150	43.08846	20993424		
6	ARS-BFGL-NGS-69156	43.10907	21034521		
6	BTB-00246097	43.12577	21067822		
6	BTB-00245990	43.1961	21126480		
6	Hapmap45132-BTA-77765	43.33434	21201112		
6	Hapmap49304-BTA-77734	43.50629	21293951		
6	BTB-01951920	43.56683	21332376		
6	UA-IFASA-1756	43.62654	21414895		
6	Hapmap26681-BTA-143845	43.66911	21473715		
6	ARS-BFGL-NGS-40968	43.684	21494288		
6	Hapmap41356-BTA-78236	43.70864	21528332		
6	BTA-78232-no-rs	43.7266	21553155		
6	Hapmap54577-rs29011449	43.75229	21588640		
6	BTB-00247795	43.79064	21641633		
6	ARS-BFGL-NGS-118535	43.82077	21683266		
6	BTB-00247744	43.8558	21731679		
6	Hapmap45671-BTA-122516	43.90249	21796191		
6	ARS-BFGL-NGS-114652	43.91801	21817636		
6	ARS-BFGL-NGS-118959	43.92672	21829670		
6	BTB-01640698	44.07644	21884446		
6	ARS-BFGL-NGS-114695	44.14884	21909290		
6	BTB-01430084	44.2832	21955391		
6	Hapmap32615-BTA-153007	44.59897	22063744		
6	Hapmap40629-BTA-102563	44.72147	22105777		
6	ARS-BFGL-NGS-41837	44.79173	22129886		
6	Hapmap50898-BTA-15822	45.27417	22206086		
6	ARS-BFGL-NGS-23532	45.48919	22273911		
6	BTB-01530236	45.57982	22302502		
6	BTA-101236-no-rs	45.77388	22363715		
6	BTB-00254696	46.03141	22444954		
6	BTB-00254654	46.05087	22473313		
6	ARS-BFGL-NGS-119394	46.05337	22538426		
6	Hapmap27235-BTA-163445	46.05482	22576164		
6	BTB-01313885	46.05626	22613578		
6	BTB-01313904	46.05769	22650675		
6	BTB-01568097	46.05941	22695313		
6	ARS-BFGL-NGS-44167	46.08049	22745431		
6	BTB-01663497	46.1712	22898994		
6	Hapmap1572-BTA-111558	46.21161	22967387		
6	UA-IFASA-4431	46.24091	23017006		
6	ARS-BFGL-NGS-100050	46.31853	23148412		
6	Hapmap33491-BTA-147298	46.33919	23183379		
6	BTB-00246639	46.35955	23217855		
6	ARS-BFGL-NGS-96978	46.47198	23408172		
6	BTB-00246860	46.51139	23436503		
6	Hapmap50782-BTA-78177	46.56213	23460345		
6	ARS-BFGL-NGS-103398	46.69152	23521131		
6	ARS-USMARC-Parent-AY849381-rs29003287	46.77918	23562312		
6	Hapmap39780-BTA-78179	46.78595	23565493		
6	ARS-BFGL-NGS-114096	46.89612	23617252		
6	BTA-78185-no-rs	46.98119	23657220		
6	ARS-BFGL-NGS-92891	47.05825	23700430		
6	Hapmap49541-BTA-24412	47.08697	23738304		
6	BTB-00247050	47.11713	23778095		
6	Hapmap43543-BTA-27974	47.23157	23929036		
6	ARS-BFGL-NGS-55441	47.26173	23968814		

6	ARS-BFGL-NGS-63778	47.29053	24006805
6	ARS-BFGL-NGS-18384	47.32463	24039470
6	ARS-BFGL-NGS-30459	47.59727	24154002
6	ARS-BFGL-NGS-15282	47.67037	24184712
6	BTA-94473-no-rs	47.77557	24228907
6	BTB-01451601	47.8634	24265802
6	BTB-01451452	47.93	24356039
6	BTB-01965723	47.95496	24429085
6	BTB-01673061	48.01983	24466543
6	BTB-01673078	48.06936	24495145
6	BTB-01715840	48.15366	24543832
6	Hapmap42467-BTA-19217	48.2706	24611359
6	Hapmap38942-BTA-19216	48.31008	24634158
6	ARS-BFGL-NGS-19080	48.36343	24664967
6	Hapmap52578-rs29012386	48.43683	24707355
6	Hapmap44314-BTA-92383	48.536	24764626
6	BTB-01427403	48.64479	24827452
6	BTA-92371-no-rs	48.77153	24900639
6	Hapmap51350-BTA-92379	48.8251	24931575
6	BTA-37417-no-rs	48.93736	24975034
6	ARS-BFGL-NGS-21278	49.13139	25033485
6	UA-IFASA-9429	49.23873	25065821
6	BTA-37416-no-rs	49.54588	25175118
6	ARS-BFGL-NGS-12688	49.56156	25203804
6	ARS-BFGL-NGS-82212	49.58871	25253472
6	Hapmap50545-BTA-102653	49.60824	25289211
6	ARS-BFGL-NGS-18583	49.64528	25356965
6	ARS-BFGL-NGS-6319	49.70976	25474941
6	Hapmap44510-BTA-106807	49.73691	25524615
6	Hapmap38539-BTA-86703	49.75432	25556469
6	Hapmap12085-BTA-86700	49.78605	25620564
6	ARS-BFGL-NGS-37559	49.79354	25641795
6	BTA-24425-no-rs	49.80318	25669053
6	BTA-78240-no-rs	49.81887	25713466
6	ARS-BFGL-NGS-33069	49.87319	25867247
6	ARS-BFGL-NGS-106762	49.89392	25925916
6	Hapmap40492-BTA-117825	49.9355	26043633
6	BTA-78257-no-rs	49.96576	26129285
6	BTA-78261-no-rs	49.97813	26164290
6	Hapmap27407-BTA-143867	49.99258	26205206
6	ARS-BFGL-NGS-59728	50.05362	26377975
6	Hapmap28262-BTA-143868	50.0914	26484904
6	ARS-BFGL-NGS-23452	50.10997	26537473
6	ARS-BFGL-NGS-22019	50.11761	26559101
6	Hapmap50018-BTA-52623	50.16962	26706330
6	BTA-102968-no-rs	50.20245	26799276
6	ARS-BFGL-NGS-111455	50.22078	26851153
6	Hapmap56325-rs29017678	50.2472	26925931
6	ARS-BFGL-NGS-5233	50.28839	27042548
6	BTA-122286-no-rs	50.29831	27070611
6	ARS-BFGL-NGS-113577	50.32943	27158687
6	BTA-102951-no-rs	50.3383	27183822
6	ARS-BFGL-NGS-97990	50.35081	27219218
6	ARS-BFGL-NGS-115202	50.35858	27241217
6	ARS-BFGL-NGS-10082	50.37397	27284785
6	ARS-BFGL-NGS-105341	50.40068	27360392
6	ARS-BFGL-NGS-108417	50.41087	27389222
6	Hapmap50091-BTA-75608	50.42646	27433375
6	ARS-BFGL-NGS-118927	50.44609	27488938

6	ARS-BFGL-NGS-113703	50.53627	27744179	
6	ARS-BFGL-NGS-12917	50.557	27802888	
6	Hapmap25075-BTA-150348	50.89	27916603	
6	ARS-BFGL-NGS-44791	50.89	27970286	
6	BTA-95006-no-rs	50.89	28099293	
6	BTA-86166-no-rs	50.89	28148937	
6	Hapmap49794-BTA-91444	50.89	28181355	
6	BTA-117462-no-rs	50.89	28213461	
6	ARS-BFGL-NGS-86958	50.89	28236619	
6	ARS-BFGL-NGS-62732	50.89	28462736	
6	Hapmap34437-BES1_Contig321_585	50.89	28576090	
6	UA-IFASA-4152	50.89023	28754184	
6	ARS-BFGL-NGS-88344	50.89341	28777165	
6	ARS-BFGL-NGS-102813	50.90039	28827723	
6	ARS-BFGL-NGS-99477	50.90593	28867782	
6	ARS-BFGL-NGS-102930	50.93562	29082583	
6	BTA-75645-no-rs	50.95591	29229430	
6	Hapmap52018-BTA-75646	50.97335	29355660	
6	ARS-BFGL-NGS-106583	50.97797	29389022	
6	ARS-BFGL-NGS-5216	50.9896	29473260	
6	Hapmap43142-BTA-107561	51.00109	29556343	
6	ARS-BFGL-NGS-40881	51.00637	29594599	
6	ARS-BFGL-NGS-53343	51.0223	29709875	
6	Hapmap49852-BTA-107572	51.03338	29790005	
6	ARS-BFGL-NGS-7249	51.06934	30050205	
6	Hapmap43931-BTA-75650	51.09554	30239801	
6	Hapmap58595-rs29013454	51.10364	30298419	
6	Hapmap53749-rs29023061	51.11296	30365819	
6	BTA-106596-no-rs	51.1182	30403794	
6	BTA-75660-no-rs	51.12418	30447028	
6	Hapmap43456-BTA-110215	51.12984	30488025	
6	Hapmap55575-rs29016266	51.13894	30553830	
6	ARS-BFGL-NGS-66862	51.14337	30585871	
6	Hapmap50644-BTA-28820	51.14715	30613226	
6	ARS-BFGL-NGS-11156	51.16714	30757924	
6	ARS-BFGL-NGS-117147	51.1706	30782962	
6	ARS-BFGL-NGS-103412	51.17462	30812012	
6	ARS-BFGL-NGS-105606	51.17746	30832561	
6	BTA-24561-no-rs	51.19928	30990436	
6	BTA-75680-no-rs	51.20292	31016787	
6	UA-IFASA-2072	51.20994	31067604	
6	Hapmap54442-rs29025673	51.21802	31126062	
6	Hapmap43180-BTA-121726	51.22968	31210404	
6	BTA-121729-no-rs	51.2387	31275687	
6	Hapmap49740-BTA-75691	51.2495	31353827	
6	Hapmap42761-BTA-05111	51.26172	31442288	
6	BTA-121735-no-rs	51.26451	31462484	
6	Hapmap59443-rs29009843	51.26758	31484656	
6	Hapmap49292-BTA-75698	51.2794	31570212	
6	Hapmap49741-BTA-75700	51.28508	31611312	
6	BTA-120439-no-rs	51.29423	31677506	
6	BTA-12156-rs29024115	51.29755	31701568	
6	Hapmap34281-BES3_Contig343_1116	51.30476	31753703	
6	ARS-BFGL-NGS-89359	51.35766	31849726	
6	Hapmap30757-BTA-115734	51.49454	32016569	
6	ARS-BFGL-NGS-118995	51.58615	32128224	
6	ARS-BFGL-NGS-28684	51.67946	32241952	
6	BTA-119035-no-rs	51.72195	32293744	
6	ARS-BFGL-NGS-84321	51.83966	32437212	

6	Hapmap42776-BTA-105028	51.88221	32489075
6	Hapmap49839-BTA-105037	51.93097	32548500
6	ARS-BFGL-NGS-84257	52.04093	32682527
6	Hapmap39094-BTA-75706	52.08207	32732676
6	Hapmap50092-BTA-75710	52.10593	32761748
6	ARS-BFGL-NGS-98932	52.142	32805721
6	Hapmap27294-BTC-032117	52.17888	32850666
6	Hapmap41633-BTA-75713	52.22333	32904847
6	Hapmap27136-BTC-073585	52.24231	32927979
6	Hapmap33174-BTC-073543	52.25917	32948525
6	Hapmap33286-BTC-032290	52.29787	33002421
6	Hapmap33287-BTC-032371	52.31411	33026144
6	Hapmap27817-BTC-032401	52.3373	33059996
6	Hapmap27945-BTC-073459	52.38395	33128133
6	Hapmap33117-BTC-032493	52.40971	33165747
6	Hapmap30962-BTC-032558	52.42596	33189478
6	Hapmap27069-BTC-032712	52.45363	33229876
6	Hapmap25997-BTC-032754	52.4684	33251452
6	Hapmap32709-BTC-032803	52.49124	33284794
6	Hapmap27500-BTC-032985	52.53815	33353299
6	BTA-07565-rs29027230	52.55272	33374574
6	Hapmap59369-rs29018333	52.56765	33396376
6	Hapmap33121-BTC-033043	52.59857	33441527
6	Hapmap32205-BTC-033063	52.61683	33468196
6	Hapmap38985-BTA-75752	52.64487	33509143
6	Hapmap46243-BTA-75753	52.66759	33542318
6	Hapmap38852-BTA-75755	52.69475	33581983
6	Hapmap32447-BTC-033214	52.75	33685443
6	Hapmap25168-BTC-033275	52.75	33713818
6	Hapmap36813-SCAFFOLD50174_9004	52.75	33768128
6	ARS-BFGL-NGS-105249	54.14772	34324052
6	BTA-21392-no-rs	54.78331	34686041
6	ARS-BFGL-NGS-103009	54.8708	34889220
6	Hapmap40585-BTA-75775	54.90462	34967750
6	BTA-75774-no-rs	54.91518	34992275
6	BTA-75768-no-rs	54.98188	35147153
6	ARS-BFGL-NGS-43857	55.00976	35211888
6	Hapmap42314-BTA-75757	55.02262	35241752
6	Hapmap60855-rs29024248	55.07365	35360248
6	Hapmap27887-BTA-156628	55.11518	35456685
6	Hapmap43447-BTA-105138	55.14422	35524123
6	Hapmap50194-BTA-105136	55.16708	35577199
6	BTA-18965-no-rs	55.18175	35611267
6	Hapmap56615-rs29012836	55.19795	35648890
6	ARS-BFGL-NGS-642	55.21003	35676944
6	ARS-BFGL-NGS-36652	55.23222	35728464
6	Hapmap59902-rs29013268	55.25817	35788711
6	ARS-BFGL-NGS-114855	55.31573	35922378
6	ARS-BFGL-NGS-49600	55.3762	36062803
6	BTA-97637-no-rs	55.46886	36277967
6	BTA-97638-no-rs	55.48551	36316624
6	ARS-BFGL-NGS-24688	55.73455	36518232
6	Hapmap26613-BTC-069953	55.83126	36580568
6	ARS-BFGL-NGS-57515	55.87178	36606686
6	Hapmap27329-BTC-055310	55.94711	36655249
6	ARS-BFGL-NGS-103240	55.99441	36685733
6	Hapmap31963-BTC-055529	56.03029	36708862
6	Hapmap32244-BTC-055807	56.13985	36807406
6	Hapmap23877-BTA-143906	56.15994	36829725



6	ARS-BFGL-NGS-94497	56.21898	36895328
6	Hapmap59689-rs29020944	56.25038	36930214
6	Hapmap32206-BTC-033823	56.30104	36986502
6	Hapmap31921-BTC-033863	56.33116	37019972
6	Hapmap26838-BTC-033907	56.37278	37066212
6	ARS-BFGL-NGS-91745	56.40696	37104193
6	Hapmap43429-BTA-09440	56.47755	37182631
6	BTA-21842-no-rs	56.51018	37218883
6	ARS-BFGL-NGS-110738	56.54029	37252345
6	Hapmap23183-BTC-033967	56.60458	37323779
6	Hapmap31922-BTC-034015	56.61546	37335860
6	UA-IFASA-6538	56.67255	37399296
6	ARS-BFGL-NGS-87474	56.70937	37440207
6	Hapmap48882-BTA-75976	56.72992	37463048
6	Hapmap26263-BTC-036885	56.7644	37501365
6	Hapmap29925-BTC-036976	56.78714	37526622
6	Hapmap33547-BTC-037046	56.8099	37551914
6	Hapmap26264-BTC-037159	56.83886	37584088
6	Hapmap23854-BTC-062412	56.86297	37610880
6	Hapmap24324-BTC-062449	56.88165	37631640
6	Hapmap33644-BTC-062485	56.90064	37653391
6	Hapmap24039-BTC-031958	56.92457	37704254
6	Hapmap25165-BTC-032007	56.94268	37742740
6	Hapmap25417-BTC-036670	56.97025	37801349
6	Hapmap43675-BTA-75814	56.98816	37839427
6	Hapmap26261-BTC-034133	57.00195	37868743
6	ARS-BFGL-NGS-43280	57.0286	37925393
6	BTA-22850-no-rs	57.05608	37983812
6	Hapmap54103-rs29010895	57.08346	38042011
6	BTA-121739-no-rs	57.09348	38063313
6	Hapmap27072-BTC-033816	57.12661	38133743
6	Hapmap27503-BTC-033786	57.14516	38173166
6	Hapmap33288-BTC-033751	57.15932	38203273
6	Hapmap29922-BTC-033565	57.20823	38286952
6	Hapmap26259-BTC-033526	57.23299	38321808
6	Hapmap26258-BTC-033509	57.24856	38343712
6	Hapmap26555-BTC-033429	57.26447	38366100
6	Hapmap30134-BTC-034283	57.33418	38464203
6	Hapmap26308-BTC-057761	57.41362	38576012
6	ARS-BFGL-NGS-112812	57.4499	38627070
6	BTA-100891-no-rs	57.49453	38689886
6	Hapmap43470-BTA-114677	57.53456	38746212
6	Hapmap27083-BTC-041166	57.59113	38825835
6	Hapmap23507-BTC-041133	57.60546	38845992
6	Hapmap31285-BTC-041097	57.62236	38869785
6	Hapmap23413-BTC-041058	57.63874	38892842
6	Hapmap33630-BTC-041044	57.6539	38914175
6	Hapmap33628-BTC-041023	57.67155	38939012
6	Hapmap27529-BTC-050639	57.73919	39034201
6	ARS-BFGL-NGS-2946	57.76443	39069719
6	Hapmap25414-BTC-034877	57.78192	39094340
6	Hapmap32207-BTC-034871	57.79653	39114894
6	Hapmap28546-BTC-072715	57.94802	39172862
6	Hapmap53940-rs29026121	58.10374	39216868
6	Hapmap27537-BTC-060891	58.24794	39257620
6	BTB-01709638	58.31879	39277640
6	Hapmap31044-BTC-071337	58.45102	39346170
6	Hapmap33170-BTC-071249	58.47042	39371150
6	BTB-01326707	58.5228	39438580

6	BTB-01326697	58.5407	39461621
6	Hapmap27849-BTC-071108	58.57319	39503443
6	Hapmap33339-BTC-071052	58.5938	39529973
6	Hapmap24292-BTC-070983	58.61448	39556588
6	Hapmap26618-BTC-070864	58.64568	39597740
6	Hapmap27344-BTC-063259	58.77004	39667998
6	ARS-BFGL-NGS-113801	58.80549	39688028
6	Hapmap23923-BTC-066021	58.86514	39721727
6	Hapmap32513-BTC-066089	58.92074	39753141
6	Hapmap27298-BTC-035654	58.9563	39773228
6	Hapmap26842-BTC-035606	59.03223	39816133
6	Hapmap32210-BTC-035534	59.06929	39837065
6	Hapmap33742-BTC-041190	59.43042	40041098
6	BTB-00260450	59.47028	40063618
6	Hapmap43932-BTA-75850	59.51101	40086624
6	Hapmap27818-BTC-035199	59.58812	40130189
6	Hapmap23971-BTC-035093	59.63812	40158436
6	BTB-00250110	59.77712	40236966
6	Hapmap23907-BTC-036006	59.89426	40303148
6	Hapmap27299-BTC-035816	59.93707	40327335
6	Hapmap32211-BTC-035717	59.98622	40355102
6	Hapmap28075-BTC-035688	60.02589	40377515
6	Hapmap23741-BTC-073893	60.09872	40418664
6	Hapmap23924-BTC-070527	60.20432	40478325
6	Hapmap23862-BTC-069949	60.2965	40530400
6	BTB-01865288	60.34395	40557209
6	Hapmap27337-BTC-060499	60.38592	40580921
6	Hapmap33079-BTA-163567	60.47159	40629318
6	Hapmap30980-BTC-050679	60.56994	40684885
6	Hapmap27701-BTC-050761	60.62608	40716598
6	Hapmap31819-BTA-156590	60.72214	40770870
6	ARS-BFGL-NGS-34023	60.8083	40819552
6	BTB-01399258	60.92133	40883409
6	Hapmap33744-BTC-050901	60.93843	40893067
6	Hapmap23201-BTC-072836	60.99033	40922391
6	Hapmap60113-rs29017603	61.09922	40983913
6	BTB-00252896	61.13583	41004596
6	BTB-00252917	61.17321	41025711
6	ARS-BFGL-NGS-36479	61.23899	41062876
6	BTB-00406710	61.28606	41089471
6	BTB-00406718	61.3461	41123393
6	Hapmap27076-BTC-037281	61.44355	41178449
6	Hapmap24229-BTC-037356	61.5025	41211754
6	Hapmap57625-rs29027071	61.577	41253845
6	Hapmap26845-BTC-037406	61.61254	41282225
6	Hapmap32714-BTC-037559	61.65393	41316161
6	BTB-00250899	61.68716	41343408
6	Hapmap26843-BTC-036644	61.73116	41379490
6	Hapmap32946-BTC-046820	61.77754	41417527
6	Hapmap31624-BTC-046805	61.8087	41443081
6	Hapmap23186-BTC-046762	61.88605	41496235
6	BTB-00252870	62.07654	41530548
6	Hapmap33430-BTC-037618	62.4002	41588847
6	Hapmap24317-BTC-037593	62.52749	41611777
6	Hapmap24633-BTC-062521	62.80347	41661490
6	Hapmap27542-BTC-062507	62.95017	41687911
6	Hapmap22729-BTC-036455	63.1266	41719693
6	Hapmap32713-BTC-036432	63.30936	41752613
6	BTB-00250665	63.50809	41795944

6	ARS-BFGL-NGS-72188	63.56759	41831446	
6	BTB-00250403	63.61229	41858119	
6	Hapmap51884-BTA-121745	63.66703	41890785	
6	ARS-BFGL-NGS-70160	63.70736	41914851	
6	BTA-75905-no-rs	63.79894	41969496	
6	Hapmap48459-BTA-75920	63.88986	42023749	
6	BTB-00251468	63.94602	42057261	
6	ARS-BFGL-NGS-90128	64.01035	42095643	
6	Hapmap49744-BTA-75903	64.05251	42120804	
6	BTA-75902-no-rs	64.10995	42155077	
6	BTB-00251059	64.16931	42190501	
6	BTA-75891-no-rs	64.25125	42239393	
6	ARS-BFGL-NGS-90857	64.29814	42267374	
6	BTA-75961-no-rs	64.34439	42294971	
6	Hapmap59527-rs29021960	64.38483	42319104	
6	BTB-00251852	64.49989	42387759	
6	BTA-75952-no-rs	64.53823	42410637	
6	BTB-00251835	64.59769	42446118	
6	Hapmap27408-BTA-143963	64.67657	42493184	
6	BTB-00251663	64.80066	42567228	
6	BTB-00251655	64.8716	42609559	
6	Hapmap44280-BTA-75941	64.94908	42655795	
6	BTA-75940-no-rs	65.04711	42714287	
6	ARS-BFGL-NGS-67509	65.12176	42758833	
6	Hapmap43676-BTA-75936	65.16088	42782178	
6	Hapmap49493-BTA-121746	65.23329	42825386	
6	BTA-75926-no-rs	65.30231	42866573	
6	BTA-95818-no-rs	65.58867	43037439	
6	Hapmap59666-rs29014966	65.62919	43061619	
6	BTB-01468498	65.67632	43089739	
6	BTB-01468535	65.73203	43122985	
6	BTB-01468543	65.78337	43153620	
6	Hapmap59861-rs29027897	65.8203	43175657	
6	BTA-88763-no-rs	65.87984	43211180	
6	BTB-01900351	65.98531	43274120	
6	Hapmap47224-BTA-24614	66.03531	43303952	
6	BTB-00252970	66.07913	43330106	
6	ARS-BFGL-NGS-78195	66.16788	43395705	
6	Hapmap44513-BTA-107931	66.19888	43419974	
6	ARS-BFGL-NGS-107577	66.24545	43456453	
6	ARS-BFGL-NGS-1611	66.28729	43489216	
6	BTB-00825210	66.34143	43531610	
6	Hapmap47037-BTA-52688	66.3894	43569171	
6	ARS-BFGL-NGS-23937	66.4487	43614199	
6	Hapmap34048-BES8_Contig582_862		66.51985	43658399
6	ARS-BFGL-NGS-58762	66.60806	43713187	
6	Hapmap43677-BTA-76003	66.70335	43772388	
6	BTB-00253074	66.7669	43811863	
6	BTB-00253070	66.77732	43818336	
6	ARS-BFGL-NGS-15713	66.85249	43865032	
6	BTB-02093016	66.86469	43872606	
6	ARS-BFGL-NGS-42501	66.94124	43920160	
6	BTB-01893222	66.98477	43947204	
6	Hapmap28019-BTC-054809	67.5609	44305092	
6	Hapmap26882-BTC-054869	67.61354	44337791	
6	Hapmap26587-BTC-054901	67.65522	44363683	
6	Hapmap33640-BTC-055193	67.74345	44418493	
6	Hapmap26883-BTC-055211	67.78088	44441744	
6	Hapmap51527-BTA-97415	67.81322	44461834	

6	Hapmap54823-rs29021261	67.94824	44545708	
6	Hapmap28005-BTC-037769	68.07201	44622597	
6	ARS-BFGL-NGS-117009	68.1154	44649549	
6	BTA-76027-no-rs	68.15266	44672692	
6	Hapmap27690-BTC-037987	68.19426	44698534	
6	Hapmap27691-BTC-038108	68.24587	44730596	
6	Hapmap30691-BTC-038216	68.29849	44763284	
6	Hapmap31927-BTC-038306	68.34139	44789933	
6	Hapmap26848-BTC-038527	68.38913	44819589	
6	Hapmap29379-BTC-038535	68.43969	44850990	
6	Hapmap32932-BTC-038619	68.509	44894050	
6	Hapmap26001-BTC-038813	68.56083	44926243	
6	Hapmap24121-BTC-039009	68.62827	44968134	
6	Hapmap23242-BTC-039071	68.66642	44991839	
6	BTB-00254199	68.70805	45017700	
6	Hapmap31283-BTC-039096	68.76395	45052429	
6	Hapmap31284-BTC-039204	68.83485	45096462	
6	Hapmap47403-BTA-76048	68.92617	45153190	
6	Hapmap30420-BTC-039335	68.96149	45175137	
6	Hapmap32456-BTC-038385	69.02768	45216251	
6	Hapmap26267-BTC-039886	69.08744	45253378	
6	Hapmap32217-BTC-039812	69.16386	45300844	
6	Hapmap47098-BTA-76051	69.20184	45324435	
6	Hapmap31607-BTC-039637	69.29414	45381777	
6	ARS-BFGL-NGS-112073	69.38935	45440921	
6	ARS-BFGL-NGS-112781	69.45152	45479538	
6	Hapmap44618-BTA-76049	69.48421	45499848	
6	Hapmap27078-BTC-039516	69.52096	45522677	
6	ARS-BFGL-NGS-29047	69.59476	45568520	
6	Hapmap44850-BTA-76107	69.64908	45602259	
6	ARS-BFGL-NGS-35169	69.95531	45792492	
6	ARS-BFGL-NGS-2525	69.98969	45813845	
6	ARS-BFGL-NGS-97136	70.14544	45909053	
6	Hapmap48206-BTA-119876	70.25223	45945033	
6	Hapmap57445-rs29023972	70.6624	46083225	
6	Hapmap49746-BTA-76106	70.83118	46140090	
6	Hapmap49745-BTA-76105	70.94582	46178717	
6	Hapmap55150-rs29025709	71.1882	46260375	
6	Hapmap34991-BES10_Contig387_829		71.82237	46481458
6	ARS-BFGL-NGS-39570	71.91021	46512131	
6	ARS-BFGL-NGS-113185	71.97002	46533015	
6	ARS-BFGL-NGS-31525	72.03654	46556246	
6	Hapmap23226-BTA-159656	72.1	46599570	
6	ARS-BFGL-NGS-21774	72.1	46680701	
6	Hapmap44131-BTA-76099	72.1	46702267	
6	Hapmap52362-ss46526804	72.1	46750945	
6	ARS-BFGL-NGS-95035	72.1	46788536	
6	ARS-BFGL-NGS-67206	72.1	46820055	
6	Hapmap34686-BES10_Contig763_1215	72.1	46867937	
6	ARS-USMARC-Parent-DQ789028-rs29017713	72.1	46936182	
6	ARS-BFGL-NGS-53753	72.1	46970861	
6	ARS-BFGL-NGS-24332	72.11115	47032183	
6	BTA-76116-no-rs	72.25912	47140778	
6	ARS-BFGL-NGS-39508	72.32355	47188068	
6	BTA-121749-no-rs	72.48456	47306228	
6	Hapmap41353-BTA-76120	72.7254	47482983	
6	ARS-BFGL-NGS-30034	73.08912	47791866	
6	ARS-BFGL-NGS-98747	73.10513	47838726	
6	ARS-BFGL-NGS-64239	73.11308	47862005	

6	ARS-BFGL-NGS-31387	73.13177	47916741	
6	Hapmap52342-rs29016265	73.15468	47983800	
6	BTB-00254839	73.16885	48025306	
6	ARS-BFGL-NGS-12288	73.18262	48065624	
6	Hapmap39432-BTA-76145	73.21996	48190681	
6	ARS-BFGL-NGS-101567	73.22567	48216479	
6	Hapmap34506-BES8_Contig430_959	73.23464		48256937
6	ARS-BFGL-NGS-116163	73.24494	48303392	
6	Hapmap43679-BTA-76147	73.27151	48423262	
6	ARS-BFGL-NGS-58287	73.28383	48478840	
6	BTB-01417044	73.29008	48507066	
6	Hapmap44495-BTA-91063	73.29767	48541257	
6	Hapmap54702-rs29018489	73.30595	48578627	
6	ARS-BFGL-NGS-69417	73.31815	48633674	
6	BTB-00255537	73.32663	48671908	
6	ARS-BFGL-NGS-75897	73.33416	48705890	
6	BTB-00255207	73.34442	48752176	
6	ARS-BFGL-NGS-41037	73.34985	48776662	
6	Hapmap60756-rs29010402	73.35855	48815917	
6	ARS-BFGL-NGS-79906	73.36716	48854792	
6	BTB-01402033	73.37225	48877739	
6	ARS-BFGL-NGS-78057	73.38014	48913327	
6	BTB-01402075	73.3828	48925313	
6	BTB-01688071	73.39	49048876	
6	BTB-02002785	73.39	49130874	
6	BTB-01527594	73.39	49166985	
6	BTB-01527489	73.39	49205249	
6	BTB-01527373	73.39	49233626	
6	BTB-01846733	73.39538	49299798	
6	BTB-01870633	73.40986	49340171	
6	BTB-00255719	73.43362	49406394	
6	BTB-00255771	73.44261	49431471	
6	Hapmap39703-BTA-08331	73.45032	49452959	
6	BTB-00255828	73.4597	49479118	
6	BTB-00255966	73.46869	49504164	
6	BTA-76196-no-rs	73.48656	49553975	
6	BTB-00256073	73.49611	49580604	
6	BTB-02022847	73.5038	49602059	
6	BTB-00256297	73.52773	49668745	
6	ARS-BFGL-NGS-46273	73.53725	49695302	
6	BTB-00256366	73.54777	49724627	
6	BTB-01642941	73.58147	49818590	
6	Hapmap23279-BTA-158875	73.6012	49873569	
6	ARS-BFGL-NGS-58275	73.61459	49910900	
6	Hapmap51152-BTA-115003	73.66335	50046827	
6	BTA-18812-no-rs	73.71989	50204450	
6	Hapmap55410-rs29023010	73.7383	50255777	
6	Hapmap43038-BTA-76203	73.76012	50316616	
6	BTB-00256594	73.77271	50351709	
6	BTA-76317-no-rs	73.78706	50391701	
6	BTB-00256842	73.80537	50442769	
6	Hapmap44302-BTA-86279	73.8199	50483279	
6	ARS-BFGL-NGS-43044	73.8393	50537368	
6	Hapmap24252-BTA-147305	73.87151	50627149	
6	ARS-BFGL-NGS-41652	73.88763	50672081	
6	BTB-01382552	73.90408	50717954	
6	BTB-01201456	73.92491	50776023	
6	BTB-01201475	73.94503	50826657	
6	BTB-02001974	73.9651	50860823	

6	BTB-01354053	74.02	51007189	
6	BTB-02077165	74.05385	51076225	
6	BTB-01518295	74.06956	51102728	
6	BTB-01518251	74.10432	51161365	
6	Hapmap55412-rs29023256	74.13644	51215544	
6	BTA-93891-no-rs	74.21825	51303950	
6	Hapmap52628-rs29014687	74.26627	51335608	
6	ARS-BFGL-NGS-106177	74.30483	51361032	
6	BTB-01777982	74.33796	51382872	
6	BTA-120452-no-rs	74.4042	51426541	
6	Hapmap41385-BTA-93895	74.44958	51456453	
6	Hapmap51534-BTA-103373	74.59631	51553185	
6	BTB-01553462	74.65032	51588791	
6	BTA-103370-no-rs	74.70487	51624757	
6	BTB-01451336	74.77277	51669513	
6	BTB-01794972	74.86343	51729279	
6	ARS-BFGL-NGS-12583	74.92424	51769371	
6	BTA-26533-no-rs	74.95831	51791836	
6	BTB-00477280	75.01878	51831698	
6	Hapmap43743-BTA-101057	75.07818	51870854	
6	BTB-00477134	75.1156	51895523	
6	BTB-01345846	75.22076	51964857	
6	BTA-26532-no-rs	75.32931	52036412	
6	BTA-108997-no-rs	75.38187	52071063	
6	Hapmap50568-BTA-111925	75.44028	52109568	
6	BTB-02007277	75.55025	52182064	
6	Hapmap42466-BTA-18439	75.6684	52259955	
6	Hapmap51414-BTA-18435	75.71575	52291173	
6	BTB-01609245	75.78714	52338232	
6	BTB-01609384	75.83717	52371211	
6	UA-IFASA-959	75.87236	52394411	
6	Hapmap55435-rs29009844	75.95403	52448258	
6	Hapmap23184-BTC-039909	76.0657	52521870	
6	Hapmap50774-BTA-76325	76.10017	52544597	
6	Hapmap27079-BTC-039967	76.13119	52565043	
6	BTB-00257494	76.22741	52628477	
6	BTB-00257472	76.31255	52684600	
6	ARS-BFGL-NGS-35824	76.37448	52725432	
6	BTB-00257432	76.4202	52755573	
6	Hapmap23534-BTC-040517	76.47839	52793934	
6	Hapmap28009-BTC-040457	76.53156	52828988	
6	Hapmap59303-rs29022511	76.58664	52865298	
6	Hapmap26268-BTC-040324	76.64045	52900773	
6	Hapmap25704-BTC-040002	76.69691	52937992	
6	Hapmap35781-SCAFFOLD166430_3864	76.8256	53022829	
6	Hapmap31349-BTC-068528	76.92074	53085547	
6	BTB-01845289	76.9413	53099102	
6	Hapmap27355-BTC-068697	76.95936	53111008	
6	Hapmap24241-BTC-071805	76.99737	53136062	
6	Hapmap27851-BTC-071689	77.0323	53159092	
6	ARS-BFGL-BAC-2481	77.15956	53242994	
6	Hapmap33637-BTC-051504	77.18899	53262393	
6	Hapmap31996-BTC-066011	77.26552	53312840	
6	Hapmap27834-BTC-051463	77.34946	53368182	
6	Hapmap23860-BTC-065677	77.44147	53428838	
6	BTB-02026765	77.57177	53514737	
6	Hapmap22982-BTC-057971	77.6726	53581208	
6	Hapmap23375-BTC-040676	77.73056	53622459	
6	BTA-76341-no-rs	77.753	53643730	

6	Hapmap39865-BTA-76343	77.80424	53692295
6	ARS-BFGL-NGS-60567	77.83	53826064
6	Hapmap27513-BTC-040798	77.83498	53845927
6	Hapmap26004-BTC-040877	77.84658	53871559
6	Hapmap32218-BTC-040966	77.85661	53893718
6	Hapmap23340-BTC-040990	77.86655	53915677
6	Hapmap50097-BTA-76353	77.8856	53957738
6	Hapmap28115-BTC-014654	77.91654	54026087
6	Hapmap26814-BTC-014764	77.93358	54063716
6	ARS-BFGL-NGS-84705	77.96687	54137247
6	BTA-86872-no-rs	78.01238	54237782
6	Hapmap44575-BTA-86867	78.02419	54263844
6	Hapmap23097-BTA-161268	78.05166	54324534
6	Hapmap27120-BTC-066223	78.07191	54369253
6	BTB-01385695	78.08105	54390661
6	ARS-BFGL-NGS-7689	78.0878	54413151
6	Hapmap26571-BTC-047218	78.09482	54436578
6	Hapmap27519-BTC-047206	78.10094	54456990
6	ARS-BFGL-NGS-118484	78.10883	54483328
6	BTB-01206648	78.12102	54524018
6	Hapmap44338-BTA-110232	78.1303	54554982
6	Hapmap43761-BTA-110229	78.13862	54582762
6	BTB-01206363	78.15144	54625529
6	BTB-02034993	78.20304	54797732
6	ARS-BFGL-NGS-100863	78.21158	54826213
6	ARS-BFGL-NGS-117643	78.23103	54891145
6	ARS-BFGL-NGS-112970	78.23977	54920283
6	ARS-BFGL-NGS-2697	78.26447	55002727
6	BTB-00844104	78.27822	55048602
6	BTB-00844067	78.28683	55077357
6	BTB-00843849	78.29448	55124345
6	BTB-00843793	78.29739	55147990
6	BTB-00843812	78.30073	55175146
6	BTB-00843560	78.30836	55237202
6	BTA-53855-no-rs	78.31236	55269702
6	BTB-00843442	78.3154	55294434
6	Hapmap52059-rs29011604	78.31922	55325466
6	BTB-00843351	78.36673	55360713
6	ARS-BFGL-NGS-23616	78.40526	55384541
6	Hapmap51102-BTA-97964	78.5313	55462479
6	BTB-01494063	78.58608	55496362
6	BTB-01494055	78.62913	55522974
6	ARS-BFGL-NGS-29965	78.66491	55545104
6	BTB-01421608	78.74506	55594667
6	BTB-01421603	78.78046	55616565
6	Hapmap24851-BTA-149313	78.82422	55643621
6	Hapmap50821-BTA-91753	78.91103	55697300
6	ARS-BFGL-NGS-93645	78.99	55756520
6	BTB-01133946	78.99	55796059
6	BTA-94697-no-rs	79.13969	55880308
6	BTA-00391-no-rs	79.23479	55916841
6	ARS-BFGL-NGS-98343	79.68737	56129705
6	BTB-01133499	79.74448	56164953
6	Hapmap40151-BTA-94687	79.78268	56188532
6	ARS-BFGL-NGS-42951	79.8546	56232922
6	BTB-01133278	79.92892	56278798
6	BTB-01133266	79.99219	56317844
6	BTA-94706-no-rs	80.03684	56345409
6	ARS-BFGL-NGS-27268	80.0817	56393992

6	BTB-01132969	80.08366	56419575	
6	BTB-00258418	80.08709	56464060	
6	BTB-00258382	80.09163	56522979	
6	BTB-01656109	80.10061	56639531	
6	Hapmap49021-BTA-111079	80.10242	56663172	
6	BTB-00258256	80.1051	56697894	
6	BTB-01453838	80.10711	56723936	
6	BTB-01453811	80.11069	56770486	
6	BTB-00533198	80.11638	56844270	
6	Hapmap34928-BES10_Contig751_552	80.11859	56873006	
6	Hapmap60764-rs29014631	80.12093	56903453	
6	BTA-33069-no-rs	80.12287	56928606	
6	BTA-26162-no-rs	80.12474	56952870	
6	ARS-BFGL-NGS-28430	80.13013	57022748	
6	Hapmap25928-BTA-18390	80.13418	57075347	
6	Hapmap55334-rs29009712	80.13641	57104441	
6	ARS-BFGL-NGS-114099	80.13914	57139728	
6	Hapmap54176-rs29021880	80.14482	57213558	
6	Hapmap41788-BTA-18387	80.1481	57256166	
6	ARS-BFGL-NGS-116526	80.15199	57306636	
6	ARS-BFGL-NGS-61109	80.20132	57947092	
6	ARS-BFGL-NGS-13064	80.20473	57991420	
6	BTA-104926-no-rs	80.22258	58223068	
6	ARS-BFGL-NGS-13151	80.22614	58269352	
6	Hapmap51047-BTA-76410	80.23006	58320244	
6	Hapmap53964-rs29017197	80.23177	58342338	
6	BTA-21386-no-rs	80.235	58384274	
6	ARS-BFGL-NGS-39812	80.23743	58415803	
6	ARS-BFGL-NGS-23724	80.24189	58473731	
6	ARS-BFGL-NGS-114682	80.24379	58498378	
6	Hapmap42666-BTA-76393	80.24672	58536432	
6	ARS-BFGL-NGS-75543	80.25455	58638088	
6	ARS-BFGL-NGS-4788	80.26337	58752585	
6	ARS-BFGL-NGS-19947	80.26811	58814212	
6	UA-IFASA-5538	80.27251	58871346	
6	ARS-BFGL-NGS-5602	80.28154	58988461	
6	BTA-76416-no-rs	80.28342	59012924	
6	Hapmap58166-rs29026792	80.29017	59100491	
6	Hapmap58623-rs29012688	80.29219	59126780	
6	Hapmap38910-BTA-76481	80.29781	59199706	
6	BTA-00956-rs29014106	80.3064	59311249	
6	ARS-BFGL-NGS-100658	80.3193	59478731	
6	ARS-BFGL-NGS-31848	80.326	59565686	
6	ARS-BFGL-NGS-25659	80.3344	59674745	
6	ARS-BFGL-NGS-34791	80.33743	59714100	
6	Hapmap26209-BTA-162290	80.34338	59791381	
6	BTA-97850-no-rs	80.35078	59887422	
6	Hapmap54653-rs29025767	80.35391	59928049	
6	BTA-97854-no-rs	80.35773	59977609	
6	Hapmap55170-rs29017690	80.37282	60173472	
6	ARS-BFGL-NGS-101471	80.3745	60195314	
6	Hapmap49747-BTA-76492	80.37634	60219266	
6	UA-IFASA-5446	80.37853	60247669	
6	ARS-BFGL-NGS-101874	80.38372	60315101	
6	UA-IFASA-6142	80.38963	60391803	
6	Hapmap51979-BTA-43275	80.39244	60428295	
6	ARS-BFGL-NGS-62682	80.39937	60518194	
6	Hapmap39910-BTA-30685	80.40984	60654151	
6	BTA-30686-no-rs	80.4128	60692672	



6	Hapmap51312-BTA-76569	80.42123	60802076
6	Hapmap51763-BTA-76571	80.42408	60839033
6	ARS-BFGL-NGS-11358	80.43025	60919136
6	Hapmap49294-BTA-76541	80.4353	60984644
6	BTA-76543-no-rs	80.43783	61017491
6	ARS-BFGL-NGS-97839	80.44184	61069604
6	BTA-05152-no-rs	80.44666	61132085
6	ARS-BFGL-NGS-100046	80.45052	61182251
6	ARS-BFGL-NGS-106015	80.45185	61199572
6	ARS-BFGL-NGS-62989	80.45403	61227843
6	ARS-BFGL-NGS-113479	80.45656	61260690
6	Hapmap50098-BTA-76549	80.46457	61364700
6	Hapmap41964-BTA-76553	80.46785	61407285
6	BTB-00258980	80.46973	61431768
6	ARS-BFGL-NGS-41669	80.47147	61454298
6	Hapmap39208-BTA-68393	80.4744	61492196
6	BTA-68404-no-rs	80.47678	61523195
6	ARS-BFGL-NGS-10224	80.47927	61555559
6	Hapmap38694-BTA-76566	80.48203	61591415
6	BTB-00259313	80.48381	61614443
6	BTB-00259302	80.48586	61640981
6	BTB-01574784	80.49062	61702884
6	ARS-BFGL-NGS-112982	80.49298	61733479
6	Hapmap51045-BTA-75796	80.49892	61810659
6	Hapmap38350-BTA-75806	80.50414	61878283
6	BTB-00248845	80.50626	61905913
6	Hapmap42315-BTA-75808	80.50967	61950119
6	Hapmap51046-BTA-75812	80.51233	61984747
6	BTA-76499-no-rs	80.51491	62018146
6	Hapmap41354-BTA-76501	80.51727	62048830
6	BTB-00258644	80.52006	62085065
6	ARS-BFGL-NGS-24038	80.52273	62119749
6	BTB-00258746	80.52464	62144436
6	ARS-BFGL-NGS-111961	80.52651	62168854
6	ARS-BFGL-NGS-117527	80.52939	62206143
6	ARS-BFGL-NGS-114148	80.53111	62228503
6	ARS-BFGL-NGS-5114	80.53635	62296566
6	BTA-76588-no-rs	80.53984	62341922
6	BTB-00259582	80.54494	62408025
6	BTB-00259674	80.54666	62430437
6	BTB-00259776	80.55286	62510808
6	BTB-00259841	80.55785	62575682
6	BTB-00259343	80.56	62642435
6	BTB-00259424	80.56	62687106
6	ARS-BFGL-NGS-66408	80.56	62732929
6	ARS-BFGL-NGS-35835	80.56	62788712
6	ARS-BFGL-NGS-1852	80.56	62834920
6	ARS-BFGL-NGS-109055	80.56	62933010
6	BTB-01211624	80.56	62979121
6	ARS-BFGL-NGS-116332	80.56702	63039838
6	ARS-BFGL-NGS-118302	80.58064	63071799
6	BTB-01211574	80.60858	63137386
6	ARS-BFGL-NGS-69759	80.6206	63165597
6	BTB-01211501	80.631	63190024
6	BTB-01857634	80.64911	63232513
6	ARS-BFGL-NGS-41007	80.66778	63276325
6	Hapmap26181-BTA-156071	80.69821	63347756
6	ARS-BFGL-NGS-103013	80.72156	63402550
6	BTA-111193-no-rs	80.73789	63440877

6	ARS-BFGL-NGS-78719	80.77705	63532785
6	Hapmap31190-BTA-161167	80.78	63893575
6	BTA-111059-no-rs	80.78	63996365
6	Hapmap49442-BTA-111073	80.78	64037334
6	BTA-111072-no-rs	80.78	64059795
6	ARS-BFGL-NGS-114110	80.78	64097378
6	Hapmap43353-BTA-76584	80.80995	64179687
6	Hapmap39040-BTA-76581	80.88358	64247306
6	Hapmap44565-BTA-76573	80.92025	64280973
6	Hapmap50621-BTA-21320	81.06219	64425164
6	BTB-01312521	81.06789	64466274
6	BTA-21313-no-rs	81.07458	64514509
6	Hapmap40687-BTA-21304	81.07843	64542255
6	BTB-01312166	81.0835	64578869
6	Hapmap39131-BTA-21297	81.08785	64610241
6	BTB-01311952	81.09217	64641399
6	BTB-01311939	81.09525	64663665
6	BTA-76599-no-rs	81.10495	64733603
6	BTB-00259941	81.11084	64776129
6	BTA-76600-no-rs	81.11555	64810123
6	BTB-00260196	81.12151	64853128
6	BTB-00260242	81.12643	64888552
6	ARS-BFGL-NGS-28491	81.14075	64991933
6	BTB-01534149	81.14539	65025424
6	ARS-BFGL-NGS-110072	81.15232	65075381
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6	BTB-00260471	81.17204	65217698
6	BTB-00260473	81.1749	65238368
6	ARS-BFGL-NGS-85054	81.21801	65344756
6	BTB-00260513	81.23735	65380200
6	BTB-01686849	81.24565	65395403
6	Hapmap25571-BTA-147549	81.29076	65478043
6	ARS-BFGL-NGS-80337	81.30398	65502276
6	BTB-00260624	81.39873	65675884
6	BTB-00260650	81.41099	65698348
6	ARS-BFGL-NGS-115746	81.4273	65728229
6	BTB-00260711	81.46293	65793521
6	ARS-BFGL-NGS-79939	81.48489	65833751
6	BTB-00260821	81.50205	65865204
6	BTB-01667396	81.5153	65889482
6	ARS-BFGL-NGS-35764	81.53505	65925664
6	BTB-00260917	81.56396	65978639
6	BTA-86777-no-rs	81.59477	66035084
6	BTB-01920023	81.62141	66083907
6	BTB-01601529	81.68988	66209350
6	BTB-01601425	81.70414	66235480
6	BTB-01601414	81.71896	66262623
6	Hapmap59322-rs29015787	81.74323	66307093
6	BTB-01362640	81.77353	66362612
6	BTB-01362601	81.79086	66394378
6	Hapmap24407-BTA-163638	81.80817	66426101
6	BTA-122855-no-rs	81.82874	66463774
6	BTB-01362542	81.83366	66472802
6	Hapmap47788-BTA-96313	81.85353	66509207
6	BTB-01474679	81.87555	66549547
6	BTB-01362396	81.88802	66572393
6	BTA-28751-no-rs	81.90014	66594604
6	BTB-01362430	81.91	66632373
6	BTB-01362502	81.91	66660028

6	BTB-01474706	81.91	66711012	
6	BTA-96312-no-rs	81.91	66747934	
6	BTB-01712564	81.91	66773186	
6	ARS-BFGL-NGS-62058	81.91	66802712	
6	BTB-01209424	81.91	66991502	
6	BTB-01941442	81.91	67024345	
6	BTA-110734-no-rs	81.91	67049861	
6	Hapmap49017-BTA-110737	81.93333	67070334	
6	BTB-01209089	82.02652	67105986	
6	Hapmap46199-BTA-110748	82.11277	67138972	
6	BTA-110747-no-rs	82.19396	67170035	
6	BTB-01209266	82.2551	67193418	
6	Hapmap24417-BTA-155900	82.37627	67239769	
6	Hapmap49018-BTA-110738	82.4428	67265213	
6	BTB-01978479	82.49806	67286349	
6	ARS-BFGL-NGS-6760	82.54037	67316480	
6	BTB-01068618	82.60229	67423466	
6	BTB-01068624	82.61514	67445653	
6	BTB-01068647	82.7083	67606601	
6	BTB-01068662	82.72971	67643584	
6	BTB-01923620	82.75716	67691024	
6	BTB-01068702	82.77483	67721544	
6	BTB-00261837	82.79303	67752994	
6	ARS-BFGL-NGS-94365	82.80884	67780297	
6	Hapmap42793-BTA-108076	82.8236	67805804	
6	ARS-BFGL-NGS-13749	82.86499	67877316	
6	BTA-104215-no-rs	82.89225	67924407	
6	ARS-BFGL-NGS-72592	82.90682	67949582	
6	ARS-BFGL-NGS-119362	82.97041	68059441	
6	Hapmap60263-rs29023994	83.00417	68117757	
6	Hapmap23929-BTA-104306	83.02572	68154985	
6	BTB-01068748	83.08	68291351	
6	ARS-BFGL-NGS-40987	83.08	68366910	
6	ARS-BFGL-NGS-2051	83.08	68495611	
6	ARS-BFGL-NGS-111636	83.08974	68546212	
6	ARS-BFGL-NGS-116808	83.11447	68616066	
6	ARS-BFGL-NGS-33719	83.22787	68808196	
6	Hapmap40668-BTA-120410	83.2617	68865490	
6	ARS-BFGL-NGS-99368	83.35697	69026906	
6	Hapmap56099-rs29013964	83.43817	69164478	
6	Hapmap53343-ss46526328	83.45004	69184582	
6	ARS-BFGL-NGS-114395	83.47646	69229350	
6	ARS-BFGL-NGS-70101	83.58707	69416751	
6	ARS-BFGL-NGS-20354	83.62608	69482838	
6	ARS-BFGL-NGS-35445	83.64348	69512310	
6	Hapmap59849-rs29025576	83.69624	69601707	
6	Hapmap38628-BTA-76690	83.71878	69639884	
6	ARS-BFGL-NGS-108820	83.80495	69807027	
6	Hapmap50117-BTA-81807	83.81055	69840434	
6	ARS-BFGL-NGS-93633	83.81758	69882331	
6	Hapmap49432-BTA-107930	83.83393	69979797	
6	ARS-BFGL-NGS-32371	83.83744	70000724	
6	ARS-BFGL-NGS-96402	83.84161	70025545	
6	ARS-BFGL-NGS-117236	83.84826	70065213	
6	Hapmap60836-rs29027147	83.87239	70209132	
6	Hapmap54879-rs29017018	83.877	70236581	
6	ARS-BFGL-NGS-117001	83.89109	70320611	
6	Hapmap44512-BTA-107928	83.90041	70376204	
6	ARS-BFGL-NGS-44467	83.90643	70412049	

6	ARS-BFGL-NGS-117739	83.91753	70478273
6	Hapmap39683-BTA-76699	83.92284	70509911
6	BTA-76705-no-rs	83.92889	70546004
6	ARS-BFGL-NGS-92044	83.93484	70581495
6	ARS-BFGL-NGS-40712	83.95551	70704748
6	Hapmap38352-BTA-76628	83.97	70865694
6	BTA-76627-no-rs	83.97	70927116
6	BTA-76626-no-rs	83.97	70959812
6	ARS-BFGL-NGS-117708	84.03154	70999090
6	ARS-BFGL-NGS-30652	84.35506	71073768
6	Hapmap24750-BTC-042016	84.42241	71111080
6	BTA-76623-no-rs	84.50072	71154473
6	ARS-BFGL-NGS-115051	84.72478	71278609
6	ARS-BFGL-NGS-92254	84.76512	71300961
6	Hapmap29639-BTC-041962	84.85371	71350048
6	ARS-BFGL-NGS-109884	84.89799	71374574
6	Hapmap33128-BTC-041916	84.9818	71421017
6	Hapmap26269-BTC-041695	85.0381	71452210
6	ARS-BFGL-NGS-38827	85.08105	71476002
6	Hapmap27692-BTC-042876	85.1598	71519635
6	Hapmap32220-BTC-042831	85.21998	71552977
6	Hapmap59740-rs29016956	85.26186	71579177
6	Hapmap31616-BTC-042811	85.43365	71873004
6	Hapmap27516-BTC-042465	85.47309	71910076
6	ARS-BFGL-NGS-95965	85.59935	72028756
6	Hapmap32219-BTC-042322	85.62376	72051699
6	Hapmap23983-BTC-070420	85.66962	72094797
6	Hapmap29128-BTC-042274	85.69483	72118486
6	ARS-BFGL-NGS-24637	85.71638	72138744
6	Hapmap26008-BTC-042247	85.74706	72167577
6	Hapmap27515-BTC-042197	85.77679	72195522
6	Hapmap26270-BTC-042160	85.81219	72228793
6	ARS-BFGL-NGS-104919	85.84525	72259859
6	ARS-BFGL-NGS-13173	85.89162	72301044
6	ARS-BFGL-NGS-7423	85.9348	72338329
6	BTB-00263209	85.98561	72382208
6	ARS-BFGL-NGS-77747	86.09399	72475809
6	ARS-BFGL-NGS-119539	86.15833	72531373
6	BTB-00263073	86.32813	72678030
6	Hapmap52685-rs29017695	86.38575	72727790
6	BTB-00263026	86.46734	72798255
6	Hapmap43043-BTA-76799	86.55298	72872216
6	ARS-BFGL-NGS-68326	86.5928	72906612
6	ARS-BFGL-NGS-99026	86.62027	72930338
6	BTB-01899352	86.66575	72969608
6	BTB-00262834	86.71035	73008129
6	BTB-00262807	86.73903	73032896
6	Hapmap53308-rs29024839	86.76707	73057109
6	ARS-BFGL-NGS-37727	86.80836	73092782
6	ARS-BFGL-NGS-111167	86.87056	73146496
6	ARS-BFGL-NGS-73119	86.91191	73182209
6	Hapmap55502-rs29014080	86.94727	73212743
6	Hapmap49750-BTA-76652	86.99596	73254801
6	Hapmap57999-rs29023146	87.02615	73280873
6	ARS-BFGL-NGS-109149	87.05705	73307557
6	ARS-BFGL-NGS-106835	87.12892	73369629
6	Hapmap51492-BTA-76637	87.23553	73461697
6	BTB-00261083	87.36761	73575770
6	ARS-BFGL-NGS-117025	87.41572	73617318

6	Hapmap52482-ss46526125	87.44168	73639744
6	Hapmap43042-BTA-76779	87.4983	73688640
6	ARS-BFGL-NGS-17026	87.55091	73734080
6	Hapmap24088-BTA-144179	87.57867	73758057
6	BTB-00263396	87.63155	73819092
6	BTB-00263355	87.6349	73855036
6	ARS-BFGL-NGS-69314	87.6384	73892735
6	Hapmap50775-BTA-76767	87.64211	73932576
6	BTB-00262376	87.64426	73955725
6	ARS-BFGL-NGS-55843	87.64981	74015443
6	BTB-00263321	87.65315	74051400
6	ARS-BFGL-NGS-93711	87.65626	74084829
6	BTA-76827-no-rs	87.65886	74112802
6	BTB-00263615	87.66147	74140844
6	BTA-76826-no-rs	87.67126	74246140
6	BTA-76823-no-rs	87.67432	74279058
6	BTB-00263432	87.6813	74354100
6	ARS-BFGL-NGS-14715	87.68358	74378643
6	BTB-00263420	87.68877	74434558
6	ARS-BFGL-NGS-76592	87.68975	74445066
6	Hapmap50462-BTA-76734	87.7735	74513088
6	BTB-00262270	87.81555	74546008
6	ARS-BFGL-NGS-112030	87.85825	74579431
6	Hapmap60182-rs29025531	87.89317	74606760
6	BTA-121759-no-rs	87.93272	74637717
6	BTB-00264102	88.01254	74700202
6	ARS-BFGL-NGS-4881	88.14172	74801324
6	ARS-BFGL-NGS-20249	88.20367	74849823
6	BTB-00263850	88.21	74881485
6	Hapmap54188-rs29022489	88.21	75017253
6	ARS-BFGL-NGS-101891	88.21	75137290
6	BTA-76842-no-rs	88.21	75298979
6	Hapmap52346-rs29024480	88.21	75380980
6	BTA-76835-no-rs	88.21	75426216
6	Hapmap57992-rs29022820	88.21	75746331
6	Hapmap27595-BTA-144182	88.21	75830633
6	Hapmap53262-rs29021769	88.21	76134600
6	ARS-BFGL-NGS-18944	88.24173	76210037
6	ARS-BFGL-NGS-107422	88.46472	76534742
6	Hapmap50522-BTA-98140	88.59089	76718463
6	Hapmap42748-BTA-98142	88.61546	76754229
6	BTA-111809-no-rs	88.91205	77186116
6	Hapmap44699-BTA-122320	88.94149	77228984
6	BTA-28969-no-rs	88.9832	77289713
6	ARS-BFGL-NGS-109219	89.01749	77339645
6	Hapmap26729-BTA-154447	89.05279	77391041
6	Hapmap27469-BTA-25176	89.09534	77452997
6	BTA-114800-no-rs	89.14023	77520815
6	Hapmap60030-rs29013992	89.14544	77585276
6	ARS-BFGL-NGS-80068	89.15069	77650126
6	ARS-BFGL-NGS-64639	89.19399	77904593
6	Hapmap51764-BTA-76876	89.72874	78259759
6	Hapmap38629-BTA-76891	89.77292	78289101
6	BTA-76055-no-rs	89.98914	78432720
6	Hapmap43678-BTA-76060	90.05551	78476796
6	Hapmap48883-BTA-76062	90.11	78539712
6	ARS-BFGL-NGS-12798	90.11	78561987
6	BTA-76070-no-rs	90.11	78598487
6	ARS-BFGL-NGS-27643	90.11	78786848

6	BTA-76082-no-rs	90.11	78819168	
6	Hapmap55427-rs29012305	90.11	79006685	
6	ARS-BFGL-NGS-102423	90.11	79126321	
6	Hapmap43036-BTA-76093	90.11	79150643	
6	Hapmap52479-rs29018853	90.11	79203343	
6	BTA-76097-no-rs	90.11	79265181	
6	BTA-121747-no-rs	90.11	79323845	
6	Hapmap41083-BTA-76098	90.11	79350710	
6	BTB-00254383	90.11	79450422	
6	Hapmap55384-rs29026113	90.12384	79525009	
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6	BTB-00264506	90.2309	79732129	
6	BTB-01900612	90.27489	79817258	
6	BTB-00264414	90.28835	79843283	
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6	BTA-87990-no-rs	90.33945	79942163	
6	Hapmap44211-BTA-121987	90.35765	79977378	
6	BTB-01393607	90.4016	80062406	
6	Hapmap42715-BTA-87995	90.43591	80128784	
6	BTA-87989-no-rs	90.46661	80188185	
6	BTB-01904349	90.49944	80251687	
6	BTB-01578906	90.5546	80358427	
6	Hapmap45091-BTA-20633	90.57321	80394422	
6	Hapmap58211-rs29015635	90.59658	80455292	
6	BTB-02078616	90.62794	80545597	
6	BTB-01788388	90.6693	80664740	
6	Hapmap22939-BTA-149533	90.68822	80719224	
6	BTB-01428552	90.71263	80789500	
6	BTB-01895220	90.75652	80915917	
6	Hapmap40510-BTA-24162	90.76657	80944853	
6	BTB-00264815	90.79252	81019581	
6	BTB-00264877	90.80043	81042351	
6	Hapmap51938-BTA-21491	90.8058	81057816	
6	Hapmap38782-BTA-76926	90.82737	81119938	
6	BTB-00265222	90.84454	81169373	
6	BTB-00265053	90.85283	81193256	
6	BTA-05242-no-rs	90.86415	81225864	
6	BTB-00265521	90.87522	81257754	
6	BTB-00265288	90.88512	81286240	
6	ARS-BFGL-NGS-45558	90.90673	81343469	
6	ARS-BFGL-NGS-108246	90.91853	81368675	
6	BTA-20903-no-rs	90.96482	81467492	
6	Hapmap59883-rs29022785	90.97986	81499583	
6	Hapmap27224-BTA-161106	91.00288	81551479	
6	BTA-20900-no-rs	91.02023	81604925	
6	BTA-110240-no-rs	91.03555	81652194	
6	Hapmap56688-rs29025335	91.07291	81767374	
6	Hapmap24323-BTC-053517	91.1384	81969240	
6	ARS-BFGL-NGS-114989	91.19004	82128469	
6	BTA-76934-no-rs	91.20263	82167284	
6	Hapmap26317-BTC-059618	91.23205	82253271	
6	Hapmap23419-BTC-059652	91.30998	82314634	
6	Hapmap31932-BTC-042947	91.35607	82350917	
6	Hapmap26296-BTC-051940	91.40407	82388706	
6	Hapmap26275-BTC-043486	91.43105	82409949	

6	Hapmap51858-BTA-77036	91.46574	82437266
6	Hapmap31617-BTC-043368	91.49306	82458774
6	Hapmap27308-BTC-043338	91.521	82480772
6	BTA-77034-no-rs	91.57928	82540280
6	Hapmap50464-BTA-77021	91.59315	82560990
6	Hapmap24320-BTC-043265	91.60685	82581449
6	Hapmap27307-BTC-043200	91.62325	82605943
6	Hapmap26856-BTC-043085	91.65895	82659262
6	Hapmap25425-BTC-043042	91.6726	82679646
6	Hapmap53172-rs29012675	91.69074	82706745
6	BTA-77011-no-rs	91.73557	82773692
6	ARS-BFGL-NGS-63312	91.86376	82965163
6	Hapmap47405-BTA-76965	91.96594	83117772
6	Hapmap49297-BTA-76961	91.98593	83147633
6	BTA-76960-no-rs	92.04099	83229855
6	BTA-121766-no-rs	92.05909	83256899
6	BTA-76959-no-rs	92.08181	83290843
6	Hapmap32099-BTA-151095	92.11874	83345994
6	Hapmap52686-rs29017739	92.13785	83374529
6	Hapmap43417-BTA-96760	92.16614	83416784
6	BTA-107087-no-rs	92.2303	83512619
6	ARS-BFGL-NGS-37778	92.34327	83681344
6	BTA-86049-no-rs	92.50292	83919789
6	UA-IFASA-2111	92.58	84351311
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6	BTA-111700-no-rs	92.64545	84575241
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6	ARS-BFGL-NGS-27958	92.70119	84689991
6	ARS-BFGL-NGS-114609	92.70847	84713584
6	BTA-111711-no-rs	92.73174	84789001
6	Hapmap46932-BTA-111719	92.74121	84819700
6	BTA-121763-no-rs	92.78726	84968944
6	ARS-BFGL-NGS-109039	92.84068	85142067
6	Hapmap60224-rs29001782	92.85179	85178107
6	BTA-111108-no-rs	92.92781	85424500
6	Hapmap50102-BTA-77074	92.99337	85494324
6	BTA-77077-no-rs	93.05112	85527109
6	Hapmap43767-BTA-113302	93.25039	85646902
6	ARS-BFGL-NGS-60491	93.25423	85703164
6	ARS-BFGL-NGS-37271	93.25701	85743833
6	BTA-113303-no-rs	93.27143	85954909
6	ARS-BFGL-NGS-36707	93.29875	86354888
6	BTA-118119-no-rs	93.30053	86380834
6	BTA-118117-no-rs	93.30595	86460153
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6	ARS-BFGL-NGS-86825	93.3288	86794730
6	Hapmap50857-BTA-107920	93.33051	86819633
6	Hapmap59186-rs29010267	93.3363	86904512
6	Hapmap54803-rs29015041	93.34434	87022091
6	Hapmap25708-BTC-043671	93.35059	87113639
6	Hapmap27109-BTC-060711	93.35326	87152621
6	Hapmap28023-BTC-060518	93.3566	87201599
6	Hapmap23522-BTC-047379	93.35805	87222751
6	Hapmap24184-BTC-070077	93.35957	87245049
6	Hapmap30192-BTC-072881	93.36204	87281196
6	Hapmap25779-BTC-072896	93.36379	87306797
6	Hapmap33631-BTC-043555	93.36522	87327708
6	BTA-77057-no-rs	93.36782	87365840
6	Hapmap52348-rs29024684	93.3699	87396306

6	BTA-115149-no-rs	93.37831	87519317	
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6	Hapmap38371-BTA-105598	93.39172	87715723	
6	Hapmap57014-rs29019575	93.39757	87801255	
6	Hapmap33210-BTA-144234	93.40012	87838493	
6	ARS-BFGL-NGS-24522	93.40284	87878364	
6	Hapmap42671-BTA-77163	93.41158	88006286	
6	ARS-BFGL-NGS-112872	93.4159	88069548	
6	Hapmap32578-BTA-144239	93.41874	88111170	
6	Hapmap54336-rs29010419	93.42017	88132026	
6	BTB-00268525	93.4231	88174863	
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6	Hapmap54015-rs29022799	93.43996	88421804	
6	BTA-122637-no-rs	93.44135	88442145	
6	ARS-BFGL-NGS-48254	93.44436	88486150	
6	BTA-10392-no-rs	93.44858	88547858	
6	ARS-BFGL-NGS-118182	93.47002	88592295	
6	BTB-00133212	93.52423	88656290	
6	BTB-00133241	93.59823	88743637	
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6	BTB-01654826	93.72333	88891318	
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6	BTA-22106-no-rs	93.90366	89104201	
6	Hapmap39786-BTA-86142	93.92874	89133819	
6	Hapmap51409-BTA-122717	93.96134	89172293	
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6	BTA-22096-no-rs	94.10744	89344775	
6	Hapmap44452-BTA-22099	94.15401	89399736	
6	Hapmap60852-rs29024026	94.22162	89479553	
6	Hapmap50881-BTA-119376	94.24318	89505004	
6	BTB-01025945	94.26272	89528071	
6	BTB-01946639	94.28151	89550253	
6	BTB-01946648	94.30036	89572513	
6	BTB-01820719	94.46989	89772651	
6	Hapmap39947-BTA-77207	94.58567	89823313	
6	BTA-121769-no-rs	94.82816	89912196	
6	BTB-00707438	94.96648	89962889	
6	BTB-00707501	95.27341	90075383	
6	BTB-00987135	95.5047	90160155	
6	BTB-00987116	95.58334	90188972	
6	Hapmap42616-BTA-64032	95.6603	90217183	
6	BTA-64031-no-rs	95.9556	90325414	
6	BTA-77009-no-rs	96.39587	90486780	
6	ARS-USMARC-Parent-AY849380-no-rs	96.60291	90562665	
6	ARS-BFGL-NGS-32004	96.69048	90594758	
6	BTB-00265951	96.82122	90642682	
6	BTB-00265923	96.88445	90665860	
6	ARS-BFGL-NGS-105651	96.94179	90686870	
6	Hapmap43045-BTA-76998	97.06079	90730485	
6	ARS-BFGL-NGS-80814	97.20448	90783153	
6	BTA-76988-no-rs	97.45887	90876389	
6	Hapmap42318-BTA-76987	97.52962	90902316	
6	ARS-BFGL-NGS-113032	97.60839	90931190	
6	ARS-BFGL-NGS-116877	97.70403	90966250	
6	Hapmap57216-rs29016177	97.76727	90989420	
6	BTB-01849217	97.86124	91023863	
6	Hapmap41084-BTA-77215	97.95077	91056681	
6	BTA-12570-no-rs	97.97661	91066150	



6	BTB-01458572	98.08533	91106000	
6	Hapmap38927-BTA-94993	98.19056	91144565	
6	ARS-BFGL-NGS-2391	98.30672	91187144	
6	ARS-BFGL-NGS-13074	98.53819	91313177	
6	ARS-BFGL-NGS-115014	98.62975	91411581	
6	Hapmap40845-BTA-97263	98.64989	91433227	
6	ARS-BFGL-NGS-2935	98.69392	91480536	
6	BTB-01657893	98.69886	91485845	
6	ARS-BFGL-NGS-102760	98.72927	91518537	
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6	BTB-01466630	98.83425	91631355	
6	BTB-01466661	98.86127	91660390	
6	ARS-BFGL-NGS-83505	98.88393	91684741	
6	BTB-01466878	98.97736	91785150	
6	BTA-86242-no-rs	99.02862	91840239	
6	Hapmap49816-BTA-98191	99.09002	91906227	
6	BTB-01496160	99.17474	91997279	
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6	BTB-01428718	99.34378	92195532	
6	BTB-01428731	99.36445	92217233	
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6	BTB-01885835	99.42399	92279760	
6	BTB-01428873	99.45229	92309468	
6	BTB-01428914	99.50357	92363326	
6	ARS-BFGL-NGS-105032	99.53693	92398354	
6	BTB-01428761	99.55953	92422088	
6	ARS-BFGL-NGS-60568	99.60123	92465869	
6	ARS-BFGL-NGS-108278	99.63148	92497641	
6	BTB-01995503	99.6525	92527885	
6	BTA-121695-no-rs	99.66669	92552055	
6	Hapmap35196-BES10_Contig207_566		99.68224	92578562
6	Hapmap60022-ss46526536	99.70885	92623916	
6	ARS-BFGL-NGS-40151	99.71	92690455	
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6	ARS-BFGL-NGS-119068	99.78706	92855916	
6	BTB-00267167	99.79032	92922752	
6	ARS-BFGL-NGS-83066	99.79272	92972074	
6	BTA-77123-no-rs	99.79601	93039499	
6	Hapmap48462-BTA-77136	99.79801	93080797	
6	BTB-00267652	99.79938	93108769	
6	ARS-BFGL-NGS-115937	99.80962	93137474	
6	ARS-BFGL-NGS-92582	99.83306	93175994	
6	BTB-00267864	99.87422	93243643	
6	ARS-BFGL-NGS-112355	99.89089	93271051	
6	ARS-BFGL-NGS-115085	99.90714	93297733	
6	UA-IFASA-6709	99.96074	93381472	
6	ARS-BFGL-NGS-103781	100.0339	93486356	
6	BTA-77154-no-rs	100.0797	93551941	
6	BTB-00268287	100.1456	93646389	
6	BTB-00268308	100.1621	93670062	
6	BTA-109075-no-rs	100.2091	93737302	
6	ARS-BFGL-NGS-24779	100.2165	93747923	
6	Hapmap43810-BTA-22040	100.3472	93935328	
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6	ARS-BFGL-NGS-34326	100.467	94106949	
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6	BTB-00270310	100.5	94189136
6	Hapmap49058-BTA-121772	100.5	94228599
6	Hapmap51048-BTA-77224	100.5	94262697
6	BTA-77228-no-rs	100.5067	94300826
6	Hapmap50778-BTA-77229	100.5245	94334151
6	BTB-01687386	100.5384	94360125
6	BTB-01687478	100.5593	94399135
6	ARS-BFGL-NGS-119791	100.581	94439594
6	ARS-BFGL-NGS-32227	100.6428	94562464
6	ARS-BFGL-NGS-41209	100.6488	94589635
6	Hapmap40589-BTA-77348	100.6572	94627787
6	ARS-BFGL-NGS-94213	100.6662	94668310
6	BTB-00271368	100.6712	94691064
6	BTB-00271326	100.6761	94712856
6	BTB-00271219	100.6816	94737883
6	Hapmap33485-BTA-144281	100.6831	94744842
6	ARS-BFGL-NGS-56334	100.6991	94817151
6	BTB-00271049	100.731	94864234
6	ARS-BFGL-NGS-119331	100.7914	94948275
6	Hapmap53128-rs29022916	100.8184	94985940
6	BTB-00270696	100.8718	95060260
6	Hapmap58150-rs29020620	100.8862	95080255
6	BTB-01677314	100.93	95200808
6	BTA-112746-no-rs	100.93	95240012
6	BTB-00753223	101.0874	95360863
6	BTB-00753076	101.1532	95386878
6	BTB-00753045	101.2233	95414597
6	ARS-BFGL-NGS-45355	101.2975	95443904
6	BTA-77373-no-rs	101.3614	95469835
6	BTB-00271752	101.476	95572055
6	BTA-77371-no-rs	101.4922	95634253
6	BTB-00271721	101.4998	95670290
6	ARS-BFGL-NGS-118552	101.5042	95691580
6	ARS-BFGL-NGS-29722	101.5094	95716469
6	ARS-BFGL-NGS-29550	101.5133	95735241
6	Hapmap44486-BTA-77368	101.5178	95756576
6	ARS-BFGL-NGS-12689	101.5382	95854352
6	BTB-00271931	101.5427	95875932
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6	Hapmap41966-BTA-77379	101.5584	95951343
6	BTA-77380-no-rs	101.5662	95988438
6	BTA-77394-no-rs	101.5708	96010472
6	BTB-00272324	101.5833	96070409
6	BTA-00906-rs29014057	101.623	96260709
6	BTB-00272418	101.6716	96493695
6	BTB-00272510	101.7052	96654485
6	BTA-29651-no-rs	101.7182	96716649
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6	BTB-01938046	101.76	96943849
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6	BTA-77454-no-rs	101.916	97113378
6	ARS-BFGL-NGS-117220	101.9435	97141890
6	Hapmap58323-rs29013689	101.9746	97174252
6	BTB-00273062	102.0074	97208312
6	BTB-00273052	102.0397	97241852
6	BTB-01781038	102.1182	97323457

6	BTA-21726-no-rs	102.1672	97374303	
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6	BTA-77418-no-rs	102.3253	97538647	
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6	BTA-77420-no-rs	102.3926	97608564	
6	BTB-00272793	102.4202	97637251	
6	BTB-00272812	102.4486	97666752	
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6	BTA-77421-no-rs	102.5592	97781688	
6	BTB-00272881	102.6027	97826840	
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6	Hapmap53916-rs29021982	102.7203	97952413	
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6	BTB-00273958	102.7491	97991558	
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6	Hapmap48078-BTA-77495	102.9012	98198721	
6	BTB-00274330	102.9245	98230507	
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6	ARS-BFGL-NGS-61596	102.9718	98294826	
6	ARS-BFGL-NGS-5637	103.0079	98344051	
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6	Hapmap10869-BTA-77464	103.3745	98843203	
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6	Hapmap54521-ss46526011	103.4893	99028913	
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6	Hapmap58251-rs29024344	103.815	99559664	
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6	Hapmap52436-rs29009653	103.9208	99732094	
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6	BTB-01929831	103.9876	99925889	
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6	BTB-00275005	104.5077	100876879	
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6	Hapmap33633-BTC-045832	104.9288	101320661	
6	Hapmap27088-BTC-045808	104.9642	101357896	
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6	Hapmap27696-BTC-045782	105.0305	101427754	
6	Hapmap54452-rs29015928	105.06	101464142	
6	Hapmap33696-BTC-045745	105.06	101510171	
6	Hapmap26280-BTC-045738	105.06	101539763	
6	ARS-BFGL-NGS-115828	105.06	101565330	
6	Hapmap51049-BTA-77619	105.06	101605230	
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6	Hapmap24125-BTC-045641	105.06	101704744	
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6	Hapmap26279-BTC-045536	105.0826	101772602	
6	Hapmap23911-BTC-045488	105.1005	101800858	
6	Hapmap47766-BTA-87827	105.1881	101921411	
6	Hapmap31291-BTC-045334	105.2536	101960994	
6	Hapmap30700-BTC-045177	105.3501	102019388	
6	Hapmap32226-BTC-045029	105.503	102093022	
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6	Hapmap32224-BTC-044678	105.718	102158797	
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6	Hapmap26278-BTC-044471	105.9924	102286424	
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6	Hapmap49753-BTA-77592	106.0972	102423807	
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6	Hapmap23975-BTC-043815	106.359	102937469	
6	Hapmap26312-BTC-058001	106.3737	102995977	
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6	Hapmap23494-BTC-046433	106.4522	103307689	
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6	Hapmap33438-BTC-046008	106.4767	103405065	
6	Hapmap26569-BTC-045896	106.4819	103425787	
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6	BTB-00277427	106.6234	103774451	
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6	ARS-BFGL-NGS-1110	107.8219	105626710
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6	ARS-BFGL-NGS-10480	108.2666	106158668
6	Hapmap59570-rs29024349	108.3459	106197672
6	BTA-77740-no-rs	108.4423	106245111
6	BTB-00279423	108.5961	106320803
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6	ARS-BFGL-NGS-79719	109.1206	106578932
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6	ARS-BFGL-NGS-5656	109.8623	106943958
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6	BTB-01699056	110.7781	107394629
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6	Hapmap48079-BTA-77716	110.8873	107448382
6	ARS-BFGL-NGS-36930	110.9571	107482728
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6	ARS-BFGL-NGS-40269	111.3546	107678393
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6	BTA-102476-no-rs	111.6185	107808263
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6	Hapmap49306-BTA-77874	112.87	108934953
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6	ARS-BFGL-NGS-61359	113.6489	109682953
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6	BTB-00280923	114.7121	110745167
6	ARS-BFGL-NGS-117667	114.7976	110830540
6	BTB-00280768	114.8316	110864586
6	ARS-BFGL-NGS-69648	114.8569	110889776
6	BTB-00280906	114.883	110915862
6	ARS-BFGL-NGS-116972	114.9033	110936126
6	Hapmap33044-BTA-152162	114.9299	110962723
6	ARS-BFGL-NGS-12667	114.951	110983795
6	ARS-BFGL-NGS-71548	114.9923	111025056
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6	Hapmap49832-BTA-103093	115.0777	111110390
6	BTB-01169717	115.1016	111134262
6	Hapmap51120-BTA-103089	115.1449	111177481
6	BTA-103106-no-rs	115.2889	111321399
6	BTA-103129-no-rs	115.3591	111391493
6	Hapmap47160-BTA-103130	115.3795	111411917
6	ARS-BFGL-NGS-31030	115.4052	111436339
6	BTB-01170030	115.4449	111472795
6	Hapmap41733-BTA-103134	115.4738	111499389
6	ARS-BFGL-NGS-82199	115.5167	111538775
6	Hapmap45977-BTA-110682	115.5505	111569786
6	Hapmap49016-BTA-110674	115.5914	111607375
6	BTB-01208631	115.7018	111708799
6	BTA-110673-no-rs	115.7091	111715550
6	BTA-110668-no-rs	115.7436	111747215
6	ARS-BFGL-NGS-3053	115.8015	111800358
6	BTA-110665-no-rs	115.8459	111841217
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6	BTB-01208247	115.92	111909267
6	BTB-00281303	115.9592	111945259
6	BTB-01208093	116.008	111990053
6	BTB-01208230	116.0389	112018461
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6	BTB-01408329	116.07	112072631
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6	Hapmap49754-BTA-77846	116.07	112154716
6	BTB-00281245	116.07	112204503
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6	BTB-01899984	116.07	112357369
6	BTB-01878977	116.07	112382578
6	ARS-BFGL-NGS-21224	116.1052	112413487
6	BTB-01781807	116.1889	112482664
6	BTB-01799458	116.1988	112490838
6	ARS-BFGL-NGS-86449	116.2713	112550743
6	ARS-BFGL-NGS-70490	116.3408	112598370
6	ARS-BFGL-NGS-93816	116.3868	112628889
6	BTA-20913-no-rs	116.6279	112789071
6	BTB-01429126	116.7123	112845135
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6	ARS-BFGL-NGS-17914	116.8205	112917019
6	BTB-01650338	116.8647	112946370
6	ARS-BFGL-NGS-88072	116.9472	113001225
6	Hapmap40808-BTA-77847	116.9774	113021243
6	BTB-01692933	117.0588	113101714
6	BTA-122629-no-rs	117.0755	113121868



6	BTB-01079454	117.105	113157379	
6	BTA-115675-no-rs	117.1358	113194494	
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6	ARS-BFGL-NGS-34256	117.2239	113300517	
6	ARS-BFGL-NGS-117704	117.3155	113410905	
6	ARS-BFGL-NGS-103502	117.3618	113466625	
6	BTB-01079659	117.3875	113497567	
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6	ARS-BFGL-NGS-101027	117.4465	113568630	
6	ARS-BFGL-NGS-115300	117.4782	113606872	
6	BTB-01079764	117.505	113642772	
6	ARS-BFGL-NGS-117310	117.5205	113673073	
6	BTB-01079769	117.5341	113699775	
6	Hapmap39463-BTA-115683	117.5519	113734397	
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6	ARS-BFGL-NGS-32948	117.58	113822295	
6	ARS-BFGL-NGS-103739	117.5819	113858998	
6	ARS-BFGL-NGS-119111	117.5984	113898699	
6	Hapmap39378-BTA-115685	117.6164	113942040	
6	ARS-BFGL-NGS-36449	117.6354	113987647	
6	Hapmap59539-rs29025538	117.6487	114019660	
6	BTB-01080238	117.6573	114040338	
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6	Hapmap32834-BTA-149103	117.7059	114157063	
6	BTB-01902778	117.7094	114165533	
6	Hapmap48263-BTA-24692	117.7208	114192827	
6	BTB-01754370	117.7417	114243164	
6	Hapmap35717-SCAFFOLD16736_4538	117.75	114316716	
6	Hapmap43968-BTA-90824	117.75	114348630	
6	BTB-01644528	117.75	114406073	
6	ARS-BFGL-NGS-24944	117.75	114426181	
6	Hapmap51864-BTA-90826	117.75	114468993	
6	BTA-23587-no-rs	117.7513	114540962	
6	Hapmap50211-BTA-109937	117.7533	114641491	
6	BTB-01906617	117.7539	114671560	
6	ARS-BFGL-NGS-12721	117.7547	114709329	
6	Hapmap41769-BTA-120387	117.7554	114747565	
6	ARS-BFGL-NGS-37343	117.757	114829908	
6	ARS-BFGL-NGS-119508	117.7576	114859263	
6	Hapmap49305-BTA-77852	117.7585	114901767	
6	BTB-00282384	117.7592	114938340	
6	BTB-00282326	117.76	114978039	
6	Hapmap60794-rs29022851	117.7606	115008971	
6	Hapmap29863-BTA-163429	117.7616	115059679	
6	BTB-00282277	117.7621	115085120	
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6	Hapmap43684-BTA-77867	117.7637	115164562	
6	BTB-00282168	117.7641	115184588	
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6	Hapmap39435-BTA-77865	117.765	115229156	
6	BTB-00282048	117.7656	115261032	
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6	ARS-BFGL-NGS-54732	117.7675	115360264	
6	Hapmap41085-BTA-77862	117.7687	115418517	
6	Hapmap53755-rs29023406	117.7694	115451787	
6	ARS-BFGL-NGS-21859	117.7941	115531357	
6	Hapmap50254-BTA-119277	117.8164	115575138	
6	BTB-01759427	117.8334	115608608	
6	ARS-BFGL-NGS-100900	117.845	115631324	

6	BTB-01619785	117.8658	115672242	
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6	ARS-BFGL-NGS-1155	117.9491	115835944	
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6	ARS-BFGL-NGS-116317	118.041	116016574	
6	BTB-00283498	118.0537	116041509	
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6	BTB-00283580	118.0809	116095001	
6	BTB-01306168	118.153	116257857	
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6	BTA-78066-no-rs	118.2337	116443441	
6	Hapmap31230-BTA-78061	118.252	116485522	
6	ARS-BFGL-NGS-114177	118.2989	116593341	
6	ARS-BFGL-NGS-117725	118.3161	116632828	
6	BTB-01265309	118.3362	116679161	
6	ARS-BFGL-NGS-113460	118.3517	116714864	
6	BTB-01265106	118.38	116779750	
6	ARS-BFGL-NGS-27311	118.3981	116821583	
6	BTB-01264953	118.4072	116842355	
6	BTA-05567-rs29019726	118.417	116864937	
6	Hapmap31504-BTA-159055	118.4461	116931851	
6	ARS-BFGL-NGS-105997	118.4815	117013231	
6	ARS-BFGL-NGS-15933	118.4997	117055190	
6	UA-IFASA-3742	118.5219	117106304	
6	BTB-01539914	118.5337	117133365	
6	Hapmap56871-rs29009955	118.5402	117148273	
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6	ARS-BFGL-NGS-29105	118.5933	117270421	
6	Hapmap55397-rs29017692	118.6039	117294940	
6	ARS-BFGL-NGS-85696	118.6254	117344311	
6	ARS-BFGL-NGS-77377	118.6429	117384629	
6	BTA-78048-no-rs	118.6538	117409606	
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6	BTB-02025831	118.6895	117491658	
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6	Hapmap41968-BTA-78106	118.7855	117712436	
6	Hapmap23681-BTA-108516	118.7989	117743386	
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6	ARS-BFGL-NGS-17985	118.9125	118004635	
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6	ARS-BFGL-NGS-22904	118.9756	118149861	
6	ARS-BFGL-NGS-99486	118.9898	118182364	
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6	ARS-BFGL-NGS-119662	119.0376	118292328	
6	ARS-BFGL-NGS-3824	119.0664	118358537	
6	ARS-BFGL-NGS-119881	119.0818	118394088	
6	ARS-BFGL-NGS-53471	119.1003	118436689	
6	ARS-BFGL-NGS-27150	119.1099	118458675	
6	ARS-BFGL-NGS-29927	119.12	118481842	
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6	ARS-BFGL-NGS-100768	119.3116	118922500
6	BTB-00288047	119.3259	118955402
6	ARS-BFGL-NGS-34783	119.3395	118986727
6	Hapmap27959-BTA-144557	119.349	119008612
6	ARS-BFGL-NGS-90043	119.3703	119057557
6	BTB-00287906	119.3806	119081295
6	ARS-BFGL-NGS-29384	119.4088	119146067
6	ARS-BFGL-NGS-41730	119.424	119181201
6	ARS-BFGL-NGS-17313	119.4394	119216563
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7	ARS-BFGL-NGS-42840	3.104085	594486
7	ARS-BFGL-NGS-96769	3.232302	681878
7	ARS-BFGL-NGS-111791	3.283062	716475
7	ARS-BFGL-NGS-62294	3.318429	740581
7	BTB-00292345	3.355263	765687
7	Hapmap43050-BTA-79121	3.395191	792902
7	BTB-01632886	3.499327	863880
7	ARS-BFGL-NGS-12453	3.581484	919878
7	BTB-01881852	3.620939	946770
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7	ARS-BFGL-NGS-78053	3.76317	1043714
7	BTB-00986847	3.803774	1071389
7	BTB-00987018	3.886008	1127439
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7	Hapmap42417-BTA-108192	4.028372	1224474
7	ARS-BFGL-NGS-44014	4.085772	1263597
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7	BTB-00289557	4.217404	1353317
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7	ARS-BFGL-NGS-117798	4.586129	1604637
7	ARS-BFGL-NGS-61223	4.631707	1635703
7	BTB-00289389	4.662929	1656983
7	ARS-BFGL-NGS-14294	4.731569	1703768
7	ARS-BFGL-NGS-83769	4.852197	1785987
7	BTB-00080498	4.898698	1817682
7	ARS-BFGL-NGS-113696	4.929866	1838926
7	ARS-BFGL-NGS-83344	5.001789	1887948
7	ARS-BFGL-NGS-42468	5.067943	1933038
7	ARS-BFGL-NGS-8717	5.141916	1983458
7	ARS-BFGL-NGS-28272	5.179054	2008771
7	ARS-BFGL-NGS-82181	5.245523	2054076
7	ARS-BFGL-NGS-113121	5.26775	2069225
7	ARS-BFGL-NGS-102160	5.298806	2090393
7	ARS-BFGL-NGS-37045	5.341597	2119559
7	BTB-01500061	5.421852	2174260
7	Hapmap60811-rs29009679	5.499249	2227013
7	ARS-BFGL-NGS-72360	5.593616	2291333
7	ARS-BFGL-NGS-7600	5.6408	2323494
7	BTB-01632466	5.674621	2346546
7	BTB-02004898	5.741195	2391922
7	ARS-BFGL-NGS-89847	5.837774	2457750
7	BTB-00291825	5.879723	2486342

7	BTB-00290071	5.904986	2503561
7	Hapmap60952-rs29020997	5.937855	2525964
7	Hapmap38986-BTA-80731	5.995836	2565484
7	ARS-BFGL-NGS-81727	6.043036	2597655
7	ARS-BFGL-NGS-34666	6.099967	2636459
7	ARS-BFGL-NGS-119873	6.130957	2657581
7	Hapmap41392-BTA-96538	6.215168	2714979
7	ARS-BFGL-NGS-14297	6.298072	2771486
7	ARS-BFGL-NGS-35459	6.328604	2792296
7	ARS-BFGL-NGS-81715	6.36618	2817908
7	BTB-00290676	6.444317	2869042
7	ARS-BFGL-NGS-80352	6.695424	2916678
7	ARS-BFGL-NGS-13309	6.863575	2948577
7	ARS-BFGL-NGS-42465	7.03868	2991449
7	BTA-78493-no-rs	7.153367	3020183
7	ARS-BFGL-NGS-86941	7.385746	3102587
7	BTB-00290565	7.429768	3132713
7	ARS-BFGL-NGS-88100	7.471173	3161049
7	BTB-00290525	7.522546	3196206
7	ARS-BFGL-NGS-115333	7.59827	3248028
7	ARS-BFGL-NGS-113101	7.629409	3269338
7	BTB-00290489	7.662527	3292002
7	ARS-BFGL-NGS-38379	7.6918	3312035
7	ARS-BFGL-NGS-41388	7.729397	3337765
7	ARS-BFGL-NGS-115826	7.802832	3388020
7	BTB-00290188	7.888374	3446561
7	BTA-78359-no-rs	8.011475	3530805
7	ARS-BFGL-NGS-89905	8.069847	3570752
7	ARS-BFGL-NGS-104759	8.107693	3596652
7	ARS-BFGL-NGS-54330	8.20239	3661458
7	ARS-BFGL-NGS-3116	8.254357	3697022
7	ARS-BFGL-NGS-3205	8.31977	3741787
7	Hapmap29832-BTA-144648	8.369602	3775890
7	ARS-BFGL-NGS-38213	8.411737	3807279
7	ARS-BFGL-NGS-6604	8.42455	3834871
7	ARS-BFGL-NGS-32148	8.442655	3873859
7	ARS-BFGL-NGS-14610	8.457012	3904780
7	ARS-BFGL-NGS-11983	8.483354	3961507
7	ARS-BFGL-NGS-10769	8.501151	3999834
7	ARS-BFGL-NGS-22268	8.528522	4058780
7	ARS-BFGL-NGS-115303	8.536204	4075322
7	ARS-BFGL-NGS-7157	8.546036	4096495
7	ARS-BFGL-NGS-28660	8.563142	4133334
7	ARS-BFGL-NGS-43534	8.606522	4226753
7	ARS-BFGL-NGS-40742	8.61623	4247661
7	ARS-BFGL-NGS-117421	8.634364	4286714
7	ARS-BFGL-NGS-1966	8.670074	4363617
7	ARS-BFGL-NGS-114060	8.682005	4389311
7	ARS-BFGL-NGS-94063	8.69	4436640
7	BTB-00291093	8.792396	4501997
7	ARS-BFGL-NGS-7626	9.0384	4592227
7	ARS-BFGL-NGS-41534	9.150747	4633434
7	BTB-00291042	9.211597	4655753
7	BTB-00290974	9.412022	4729265
7	ARS-BFGL-NGS-107429	9.700659	4835132
7	ARS-BFGL-NGS-58779	9.922864	4916633
7	BTB-00292673	10.0242	4953801
7	Hapmap57767-ss46527024	10.1529	5001007
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7	ARS-BFGL-NGS-38504	10.50392	5129755		
7	ARS-BFGL-NGS-117520	10.57288	5155049		
7	Hapmap41360-BTA-79669	10.68438	5195945		
7	ARS-BFGL-NGS-87958	10.97879	5303928		
7	ARS-BFGL-NGS-69290	11.11168	5352670		
7	ARS-BFGL-NGS-39029	11.24185	5400415		
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7	ARS-BFGL-NGS-115137	11.55514	5492483		
7	ARS-BFGL-NGS-84756	11.81723	5567621		
7	ARS-BFGL-NGS-102106	11.92685	5604181		
7	ARS-BFGL-NGS-29273	11.96056	5639104		
7	ARS-BFGL-NGS-113941	11.99581	5675621		
7	ARS-BFGL-NGS-8803	12.01766	5698248		
7	ARS-BFGL-NGS-84565	12.06946	5751910		
7	BTB-00291698	12.09156	5774810		
7	ARS-BFGL-NGS-104477	12.11328	5797304		
7	BTB-00291733	12.14949	5834817		
7	ARS-BFGL-NGS-39011	12.1805	5866943		
7	BTB-01746209	12.21543	5903128		
7	ARS-BFGL-NGS-32423	12.26614	5955666		
7	Hapmap49762-BTA-80425	12.31934	6010779		
7	ARS-BFGL-NGS-55814	12.3442	6036526		
7	ARS-BFGL-NGS-87888	12.37542	6068869		
7	ARS-BFGL-NGS-101854	12.43893	6134663		
7	ARS-BFGL-NGS-26591	12.46935	6166179		
7	ARS-BFGL-NGS-117791	12.50784	6206051		
7	ARS-BFGL-NGS-27424	12.54855	6248226		
7	BTA-94679-no-rs	12.57542	6276053		
7	ARS-BFGL-NGS-109521	12.60168	6303258		
7	Hapmap59964-rs29021041	12.62179	6324097		
7	ARS-BFGL-NGS-105826	12.65047	6353800		
7	ARS-BFGL-NGS-33364	12.68684	6391481		
7	ARS-BFGL-NGS-103385	12.70792	6413319		
7	ARS-BFGL-NGS-80548	12.72867	6434821		
7	ARS-BFGL-NGS-91225	12.79102	6499403		
7	ARS-BFGL-NGS-34785	12.83803	6548107		
7	ARS-BFGL-NGS-118707	12.87148	6582758		
7	ARS-BFGL-NGS-118326	12.89585	6608007		
7	ARS-BFGL-NGS-35623	12.93331	6646809		
7	Hapmap59438-rs29012637	12.95488	6669157		
7	ARS-BFGL-NGS-10823	12.98329	6698584		
7	ARS-BFGL-NGS-25179	15.04441	7822111		
7	ARS-BFGL-NGS-100448	15.19189	7875612		
7	BTA-89901-no-rs	15.49801	7986664		
7	BTB-01172167	15.75047	8078251		
7	ARS-BFGL-NGS-110939	15.91373	8137476		
7	ARS-BFGL-NGS-26495	16.05799	8189811		
7	ARS-BFGL-NGS-109847	16.22032	8248698		
7	ARS-USMARC-Parent-DQ888309-rs29013741	16.28674	8272794		
7	ARS-BFGL-NGS-110671	16.29675	8276425		
7	ARS-BFGL-NGS-43805	16.57397	8376994		
7	ARS-BFGL-NGS-79649	16.64251	8401856		
7	ARS-BFGL-NGS-106506	16.89058	8491850		
7	ARS-BFGL-NGS-116764	17.57028	8741497		
7	Hapmap47746-BTA-80658	17.63043	8764468		
7	Hapmap50113-BTA-80661	17.88297	8860921		

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7	ARS-BFGL-NGS-28362	18.2464	8999721	
7	ARS-BFGL-NGS-19382	18.69426	9170772	
7	ARS-BFGL-NGS-110476	20.91757	10398215	
7	BTA-122542-no-rs	21.31822	10685223	
7	ARS-BFGL-NGS-20506	21.52865	10835967	
7	BTB-01568825	21.62898	10907840	
7	ARS-BFGL-NGS-111321	23.97389	12234576	
7	ARS-BFGL-NGS-101398	24.11255	12331895	
7	Hapmap30832-BTA-144704	24.34114	12492323	
7	ARS-BFGL-NGS-16656	24.35373	12501165	
7	ARS-BFGL-NGS-113762	24.43834	12560545	
7	ARS-BFGL-NGS-22525	24.71167	12752376	
7	ARS-BFGL-NGS-102773	24.82761	12833745	
7	ARS-BFGL-NGS-64304	24.87852	12869481	
7	ARS-BFGL-NGS-112671	24.90732	12889689	
7	ARS-BFGL-NGS-93802	25.06735	13002006	
7	ARS-BFGL-NGS-98379	25.2733	13146547	
7	Hapmap43057-BTA-80741	25.46341	13279972	
7	Hapmap31438-BTA-144746	25.50193	13307009	
7	ARS-BFGL-NGS-112679	25.54367	13336301	
7	Hapmap34784-BES2_Contig524_2530	25.58704	13366744	
7	ARS-BFGL-NGS-111257	25.67164	13426119	
7	ARS-BFGL-NGS-110916	25.73144	13468083	
7	UA-IFASA-1667	25.76138	13489100	
7	Hapmap48480-BTA-80747	25.81398	13526016	
7	ARS-BFGL-NGS-111315	25.89762	13584721	
7	ARS-BFGL-NGS-109534	25.93213	13608935	
7	ARS-BFGL-NGS-119066	25.96524	13632174	
7	ARS-BFGL-NGS-28374	26.01247	13663743	
7	ARS-BFGL-NGS-110780	26.05285	13686977	
7	Hapmap38043-BTA-80713	26.11936	13725243	
7	ARS-BFGL-NGS-37497	26.15525	13745889	
7	ARS-BFGL-NGS-29980	26.22909	13788371	
7	ARS-BFGL-NGS-3372	26.29031	13823591	
7	ARS-BFGL-NGS-119232	26.40036	13886904	
7	ARS-BFGL-NGS-16584	26.44458	13912342	
7	Hapmap57279-ss46526160	26.48377	13934893	
7	BTA-80703-no-rs	26.66529	14039322	
7	BTA-80694-no-rs	26.7014	14060098	
7	ARS-BFGL-NGS-54629	26.84507	14142752	
7	UA-IFASA-8194	27.12583	14304280	
7	ARS-BFGL-NGS-106403	27.17132	14330447	
7	Hapmap55135-rs29021864	27.24398	14372254	
7	Hapmap48895-BTA-79049	27.2957	14402009	
7	ARS-BFGL-NGS-110189	27.35239	14434623	
7	ARS-BFGL-NGS-113841	27.45926	14496108	
7	Hapmap27028-BTA-160900	27.77704	14678931	
7	ARS-BFGL-NGS-1752	27.93321	14768778	
7	ARS-BFGL-NGS-86836	28.14384	14889952	
7	ARS-BFGL-NGS-34694	28.21163	14928953	
7	ARS-BFGL-NGS-64087	28.45271	15067652	
7	ARS-BFGL-NGS-103840	28.91313	15382521	
7	ARS-BFGL-NGS-31479	28.95689	15421110	
7	ARS-BFGL-NGS-27367	29.0167	15473841	
7	ARS-BFGL-NGS-45049	29.10217	15549201	
7	BTA-78353-no-rs	29.12877	15572659	
7	ARS-BFGL-NGS-105346	29.18708	15624067	
7	ARS-BFGL-NGS-110361	29.36731	15782979	

7	ARS-BFGL-NGS-117086	29.39197	15804730		
7	ARS-BFGL-NGS-16633	29.49244	15893312		
7	ARS-BFGL-NGS-114934	29.52445	15921536		
7	Hapmap42329-BTA-80748	29.66791	16048028		
7	ARS-BFGL-NGS-80477	29.7403	16111861		
7	ARS-BFGL-NGS-10921	29.84196	16201489		
7	UA-IFASA-7060	29.95178	16298320		
7	ARS-BFGL-NGS-17498	29.99919	16340125		
7	ARS-BFGL-NGS-2141	30.0347	16371434		
7	Hapmap23865-BTA-111820	30.06449	16397706		
7	ARS-BFGL-NGS-92758	30.12611	16452033		
7	ARS-BFGL-NGS-36034	30.17103	16491638		
7	ARS-BFGL-NGS-11011	30.20428	16520957		
7	Hapmap47101-BTA-78263	30.25358	16564424		
7	Hapmap58032-ss46526644	30.2805	16588162		
7	ARS-BFGL-NGS-57208	30.3071	16611621		
7	Hapmap46728-BTA-78268	30.33342	16634828		
7	ARS-BFGL-NGS-102000	30.3793	16675279		
7	ARS-BFGL-NGS-109627	30.40731	16699971		
7	ARS-BFGL-NGS-115326	30.43503	16724418		
7	ARS-BFGL-NGS-118225	30.52747	16805920		
7	ARS-BFGL-NGS-44079	30.55041	16826153		
7	ARS-BFGL-NGS-72083	30.57974	16852008		
7	ARS-BFGL-NGS-22940	30.61443	16882597		
7	ARS-BFGL-NGS-26351	30.72158	16977078		
7	ARS-BFGL-NGS-4774	31.20575	17403976		
7	ARS-BFGL-NGS-35463	31.30386	17490481		
7	ARS-BFGL-NGS-3043	31.34692	17528449		
7	ARS-BFGL-NGS-118411	31.57946	17629851		
7	ARS-BFGL-NGS-112031	31.6391	17686752		
7	ARS-BFGL-NGS-66143	31.71003	17754418		
7	ARS-BFGL-NGS-32467	31.73436	17777622		
7	Hapmap48467-BTA-78386	31.75578	17798064		
7	ARS-BFGL-NGS-108057	31.79437	17834876		
7	ARS-BFGL-NGS-21104	31.83315	17871862		
7	ARS-BFGL-NGS-70183	31.87658	17913294		
7	ARS-BFGL-NGS-25970	31.91018	17945352		
7	ARS-BFGL-NGS-117416	31.9463	17979808		
7	ARS-BFGL-NGS-119737	31.99117	18022614		
7	ARS-BFGL-NGS-106875	32.01797	18048182		
7	ARS-BFGL-NGS-105928	32.13351	18158398		
7	Hapmap53193-rs29010998	32.17709	18199979		
7	Hapmap60436-ss46526689	32.26468	18283528		
7	Hapmap31439-BTA-144800	32.28582	18303700		
7	ARS-BFGL-NGS-34826	32.34112	18356430		
7	Hapmap35741-SCAFFOLD181588_9953	32.36589	18379589		
7	ARS-BFGL-NGS-111581	32.40865	18419552		
7	ARS-USMARC-Parent-DQ786758-rs29024430	32.44618	18454636		
7	Hapmap36218-SCAFFOLD41765_2717	32.44618	18454636		
7	Hapmap49757-BTA-78451	32.46916	18476120		
7	ARS-BFGL-NGS-54028	32.71721	18707985		
7	ARS-BFGL-NGS-62491	32.80963	18794373		
7	BTA-78459-no-rs	32.83456	18817678		
7	ARS-BFGL-NGS-14460	32.86407	18845261		
7	ARS-BFGL-NGS-13680	32.93427	18910887		
7	UA-IFASA-9557	32.99274	18965540		
7	BTA-28773-no-rs	33.12017	19084659		
7	ARS-BFGL-NGS-33970	33.20498	19163934		
7	ARS-BFGL-NGS-12159	33.29752	19220954		

7	ARS-BFGL-NGS-72794	33.40739	19286649	
7	ARS-BFGL-NGS-107510	33.5	19352717	
7	ARS-BFGL-NGS-108609	33.5	19425341	
7	ARS-BFGL-NGS-59838	33.54809	19461567	
7	ARS-BFGL-NGS-115219	33.65197	19528939	
7	Hapmap43047-BTA-78404	33.74494	19589227	
7	ARS-BFGL-NGS-16463	33.78543	19615487	
7	ARS-BFGL-NGS-103909	33.87881	19676040	
7	Hapmap43686-BTA-78412	33.93925	19715242	
7	ARS-BFGL-NGS-66797	34.01094	19761728	
7	UA-IFASA-8172	34.1129	19827852	
7	ARS-BFGL-NGS-114610	34.163	19860339	
7	ARS-BFGL-NGS-95196	34.27586	19933529	
7	BTB-00407083	34.34701	19979786	
7	Hapmap47119-BTA-85019	34.39592	20011626	
7	ARS-BFGL-NGS-83052	34.43994	20040279	
7	ARS-BFGL-NGS-6603	34.50168	20080475	
7	ARS-BFGL-NGS-71949	34.69379	20205533	
7	ARS-BFGL-NGS-2036	34.87838	20325702	
7	ARS-BFGL-NGS-103790	35.02806	20423138	
7	ARS-BFGL-NGS-7483	35.05028	20437605	
7	ARS-BFGL-NGS-61129	35.09412	20466139	
7	ARS-BFGL-NGS-14531	35.14722	20500709	
7	ARS-BFGL-NGS-104684	35.22573	20551821	
7	BTA-78475-no-rs	35.26499	20577372	
7	Hapmap46871-BTA-78474	35.30717	20604836	
7	BTB-00296762	35.34776	20631252	
7	ARS-BFGL-NGS-37888	35.41	20771979	
7	ARS-BFGL-NGS-116229	35.66148	20935921	
7	BTB-00297004	35.83537	21022281	
7	ARS-BFGL-NGS-17203	35.88876	21048791	
7	ARS-BFGL-NGS-101536	36.08488	21146198	
7	ARS-BFGL-NGS-464	36.27998	21249976	
7	ARS-BFGL-NGS-76601	36.33822	21298998	
7	ARS-BFGL-NGS-87814	36.36508	21321599	
7	Hapmap50468-BTA-78490	36.39597	21347602	
7	ARS-BFGL-NGS-17196	36.53334	21462645	
7	ARS-BFGL-NGS-105027	36.56813	21490449	
7	ARS-BFGL-NGS-118532	36.60279	21518141	
7	ARS-BFGL-NGS-39540	36.64336	21550561	
7	Hapmap33901-BES9_Contig395_449		36.67381	21574886
7	ARS-BFGL-NGS-6079	36.70011	21595908	
7	ARS-BFGL-NGS-87095	36.71857	21610660	
7	ARS-BFGL-NGS-115830	36.76337	21646458	
7	ARS-BFGL-NGS-11731	36.80167	21677064	
7	UA-IFASA-8256	36.83617	21704630	
7	ARS-BFGL-NGS-25855	37.42694	21972429	
7	ARS-BFGL-NGS-10194	38.11463	22114622	
7	Hapmap38253-BTA-78537	38.42328	22236584	
7	ARS-BFGL-NGS-26903	38.46088	22270286	
7	UA-IFASA-1699	38.50007	22305419	
7	Hapmap27905-BTA-78545	38.54851	22348840	
7	ARS-BFGL-NGS-115712	38.70662	22490555	
7	ARS-BFGL-NGS-29084	38.74493	22524899	
7	ARS-BFGL-NGS-8112	38.80439	22578202	
7	BTA-78547-no-rs	38.8887	22653770	
7	ARS-BFGL-NGS-117268	38.91961	22681472	
7	ARS-BFGL-NGS-101734	38.95222	22710707	
7	ARS-BFGL-NGS-18413	39.06239	22807803	



7	ARS-BFGL-NGS-114928	39.1413	22874513	
7	BTB-01966013	39.19556	22920391	
7	BTB-01398723	39.22154	22942353	
7	BTB-01398686	39.28573	22996615	
7	ARS-BFGL-NGS-53334	39.30974	23016916	
7	ARS-BFGL-NGS-38296	39.35564	23053268	
7	Hapmap51514-BTA-88337	39.40666	23074262	
7	ARS-BFGL-NGS-112444	39.48	23275178	
7	ARS-BFGL-NGS-118596	39.48	23315210	
7	ARS-BFGL-NGS-112246	39.48	23336356	
7	BTA-78609-no-rs	39.48	23377738	
7	Hapmap57528-rs29013765	39.48	23403749	
7	BTB-00301021	39.48	23426104	
7	Hapmap57260-rs29023390	39.48	23498152	
7	ARS-BFGL-NGS-67859	39.48	23519206	
7	ARS-BFGL-NGS-76969	39.48	23568940	
7	BTB-00300946	39.48308	23613386	
7	ARS-BFGL-NGS-115315	39.60662	23697106	
7	ARS-BFGL-NGS-15459	39.69377	23756162	
7	ARS-BFGL-NGS-6108	39.74366	23789971	
7	Hapmap34949-BES9_Contig501_1378	39.88505	23885782	
7	BTB-00300821	39.91842	23908392	
7	ARS-BFGL-NGS-12110	39.96101	23937259	
7	BTB-01817019	40.07444	24014128	
7	BTB-00298940	40.45026	24268801	
7	BTB-01777791	40.54183	24330857	
7	BTB-00298866	40.62173	24387132	
7	ARS-BFGL-NGS-102506	40.66181	24463533	
7	Hapmap47411-BTA-78553	40.67573	24490069	
7	BTB-01683325	40.71849	24571599	
7	BTB-02031452	40.73063	24594731	
7	ARS-BFGL-NGS-41588	40.7467	24625377	
7	Hapmap49309-BTA-78604	40.7626	24655689	
7	BTB-00300220	40.77379	24677021	
7	ARS-BFGL-NGS-55096	40.80441	24735381	
7	BTB-00299866	40.81523	24756018	
7	ARS-BFGL-NGS-24565	40.82698	24778430	
7	Hapmap59260-rs29021148	40.84947	24821289	
7	ARS-BFGL-NGS-68296	40.89938	24888680	
7	BTA-78589-no-rs	40.93288	24920904	
7	Hapmap36017-SCAFFOLD177572_90	40.95904	24946051	
7	Hapmap51318-BTA-78584	40.99644	24982024	
7	Hapmap40225-BTA-78581	41.08817	25070227	
7	ARS-BFGL-NGS-59916	41.11	25093755	
7	ARS-BFGL-NGS-104648	41.11163	25120220	
7	ARS-BFGL-NGS-13684	41.11663	25154484	
7	ARS-BFGL-NGS-85196	41.11962	25174975	
7	Hapmap43941-BTA-78574	41.12474	25210041	
7	ARS-BFGL-NGS-89544	41.42217	25383927	
7	Hapmap44990-BTA-78563	41.49977	25420525	
7	BTB-00299070	41.81477	25511561	
7	Hapmap42675-BTA-78561	42.02577	25577569	
7	BTA-78558-no-rs	42.04188	25599801	
7	Hapmap45780-BTA-78557	42.06136	25626694	
7	ARS-BFGL-NGS-115929	42.09295	25670297	
7	ARS-BFGL-NGS-250	42.26474	25907429	
7	Hapmap59434-rs29012267	42.32296	25987797	
7	BTA-20566-no-rs	42.35934	26038023	
7	ARS-BFGL-NGS-27577	42.37962	26066004	

7	Hapmap60339-rs29013901	42.39848	26092041
7	Hapmap51633-BTA-78653	42.41185	26110506
7	ARS-BFGL-NGS-112272	42.4272	26131684
7	ARS-BFGL-NGS-78228	42.44443	26155472
7	BTA-20553-no-rs	42.53915	26286219
7	Hapmap47885-BTA-20554	42.55576	26309154
7	ARS-BFGL-NGS-117830	42.60822	26381561
7	BTA-78663-no-rs	42.7162	26530611
7	ARS-BFGL-NGS-26930	42.73825	26561056
7	BTA-78683-no-rs	42.76096	26592392
7	BTA-78680-no-rs	42.77978	26618374
7	Hapmap48082-BTA-78679	42.80968	26659653
7	BTA-78674-no-rs	42.83465	26694122
7	Hapmap42676-BTA-78673	42.85384	26720606
7	Hapmap43942-BTA-78671	42.89867	26782485
7	ARS-BFGL-NGS-104332	42.93276	26829547
7	ARS-BFGL-NGS-30757	42.9515	26855417
7	Hapmap54212-rs29016161	42.97879	26893086
7	ARS-BFGL-NGS-33569	43.0111	26937690
7	BTB-00264202	43.04486	26984291
7	Hapmap25837-BTA-144200	43.10185	27062948
7	BTB-00264267	43.12677	27097343
7	BTB-00264279	43.14655	27124647
7	BTB-01956476	43.16393	27148653
7	ARS-BFGL-NGS-110438	43.2438	27258897
7	ARS-BFGL-NGS-3688	43.27382	27300328
7	BTB-01740034	43.36698	27413672
7	ARS-BFGL-NGS-24478	43.38903	27439081
7	ARS-BFGL-NGS-63017	43.43932	27497043
7	BTB-01073161	43.51168	27580444
7	BTB-01073327	43.5379	27607539
7	ARS-BFGL-NGS-109381	43.60948	27661808
7	Hapmap58727-rs29027380	43.65232	27694291
7	BTA-110073-no-rs	43.70312	27732801
7	Hapmap41675-BTA-88579	43.74352	27763430
7	Hapmap49015-BTA-110076	43.85302	27846451
7	Hapmap38285-BTA-110077	43.91214	27891275
7	ARS-BFGL-NGS-87286	43.97221	27936814
7	BTB-01074080	44.02005	27973088
7	ARS-BFGL-NGS-34250	44.06465	28006905
7	Hapmap1389-BTA-110081	44.09777	28032016
7	BTB-01074252	44.13648	28061362
7	ARS-BFGL-NGS-38771	44.17203	28088313
7	ARS-BFGL-NGS-102004	44.22322	28127119
7	ARS-BFGL-NGS-80008	44.2966	28182762
7	BTB-01074446	44.32345	28203117
7	BTB-01074469	44.396	28258117
7	BTB-01074531	44.43362	28286645
7	BTB-01074586	44.50057	28337398
7	ARS-BFGL-NGS-11310	44.53468	28363259
7	ARS-BFGL-NGS-40565	44.57607	28394640
7	Hapmap59644-rs29012735	44.60536	28416847
7	ARS-BFGL-NGS-40913	44.65444	28454058
7	ARS-BFGL-NGS-108396	44.70012	28488687
7	Hapmap23838-BTA-163815	44.75401	28529552
7	BTB-00302034	44.80394	28567404
7	BTA-78695-no-rs	44.85398	28605347
7	UA-IFASA-5669	44.9227	28657444
7	ARS-BFGL-NGS-18240	44.96173	28682875

7	ARS-BFGL-NGS-44139	45.10143	28739203	
7	Hapmap40296-BTA-99486	45.3537	28840924	
7	Hapmap42029-BTA-99514	45.4345	28873506	
7	BTB-01153707	45.49414	28897553	
7	BTA-99520-no-rs	45.55013	28920128	
7	Hapmap23217-BTA-152007	45.60012	28940286	
7	Hapmap42389-BTA-99482	45.67204	28969287	
7	Hapmap42028-BTA-99484	45.75685	29003485	
7	BTB-01153956	45.8227	29030036	
7	Hapmap60467-rs29016353	45.89244	29058158	
7	BTB-01154003	46.00331	29102864	
7	Hapmap43984-BTA-99493	46.05576	29124010	
7	ARS-BFGL-NGS-86041	46.17558	29172325	
7	Hapmap33975-BES10_Contig464_714	46.64817	29259489	
7	ARS-BFGL-NGS-88212	46.93249	29305473	
7	ARS-BFGL-NGS-29250	47.23734	29354775	
7	BTB-01529671	47.86909	29579813	
7	BTB-01529616	47.90134	29631728	
7	ARS-BFGL-NGS-86542	47.96159	29728711	
7	BTA-26849-no-rs	47.99097	29775999	
7	ARS-BFGL-NGS-66965	48.01586	29816068	
7	ARS-BFGL-NGS-1759	48.06877	29901239	
7	ARS-BFGL-NGS-79444	48.10821	29964723	
7	Hapmap58691-rs29019771	48.20932	30091626	
7	ARS-BFGL-NGS-30480	48.50692	30206770	
7	Hapmap50617-BTA-21053	48.55967	30227179	
7	ARS-BFGL-NGS-90328	48.64829	30261470	
7	Hapmap48682-BTA-21048	48.7312	30293550	
7	BTB-01309833	48.83329	30333047	
7	ARS-BFGL-NGS-38179	48.9309	30370816	
7	BTB-01309967	49.28189	30506622	
7	ARS-BFGL-NGS-118150	49.6235	30638795	
7	ARS-BFGL-NGS-12750	49.71022	30672350	
7	ARS-BFGL-NGS-118602	49.91015	30749709	
7	ARS-BFGL-NGS-61723	50.06704	30816843	
7	BTB-00302618	50.11367	30840149	
7	BTB-00302581	50.1652	30865901	
7	BTB-00302535	50.27416	30920355	
7	ARS-BFGL-NGS-114456	50.36257	30964539	
7	BTB-00032316	50.43013	30998305	
7	Hapmap50931-BTA-31235	50.70601	31136178	
7	ARS-BFGL-NGS-111972	50.7621	31164207	
7	Hapmap47242-BTA-31230	50.81268	31189486	
7	ARS-BFGL-NGS-98924	50.86964	31217950	
7	Hapmap41223-BTA-31228	50.99054	31278372	
7	BTB-01782587	51.19003	31378070	
7	ARS-BFGL-NGS-109867	51.30579	31435921	
7	ARS-BFGL-NGS-86780	51.37698	31471496	
7	BTB-01041631	51.46705	31516513	
7	ARS-BFGL-NGS-66668	51.63785	31601869	
7	BTB-00301284	51.74584	31655835	
7	ARS-BFGL-NGS-44052	51.81171	31688757	
7	ARS-BFGL-NGS-18408	51.89322	31729491	
7	BTB-00301426	51.99247	31779090	
7	BTB-01041522	52.04829	31842811	
7	ARS-BFGL-NGS-113434	52.09263	31921125	
7	ARS-BFGL-NGS-108411	52.12243	31973748	
7	BTB-00303128	52.16	32050939	
7	BTA-78751-no-rs	52.16	32091641	

7	BTB-00303295	52.44285	32177281
7	ARS-BFGL-NGS-104708	52.63924	32228960
7	BTB-00303899	53.04722	32389645
7	Hapmap40159-BTA-104763	53.07086	32429732
7	ARS-BFGL-NGS-77121	53.10761	32492061
7	BTB-01571406	53.12263	32517519
7	BTB-01518845	53.14392	32553636
7	ARS-BFGL-NGS-64145	53.17384	32604367
7	BTA-121460-no-rs	53.20391	32655349
7	Hapmap57685-rs29016545	53.21672	32677080
7	ARS-BFGL-NGS-101089	53.28425	32791591
7	ARS-BFGL-NGS-12141	53.29795	32814810
7	BTB-00549286	53.32167	32855047
7	ARS-BFGL-NGS-26768	53.3619	32923268
7	ARS-BFGL-NGS-30965	53.39404	32977764
7	ARS-BFGL-NGS-96276	53.41756	33017653
7	BTB-00303931	53.45271	33077246
7	BTA-20731-no-rs	53.48995	33140400
7	BTB-00549060	53.54273	33229902
7	BTB-01862906	53.60648	33338008
7	BTB-01862954	53.62377	33367322
7	Hapmap60986-rs29027355	53.64244	33398977
7	ARS-BFGL-NGS-21597	53.67406	33452602
7	BTB-00548953	53.6987	33494379
7	Hapmap59229-rs29015308	53.71955	33529740
7	ARS-BFGL-NGS-84651	53.74497	33572841
7	BTB-01671825	53.75855	33595868
7	Hapmap49023-BTA-112194	53.77874	33630107
7	ARS-BFGL-NGS-63707	53.7957	33658873
7	BTA-116531-no-rs	53.83331	33722644
7	BTA-92602-no-rs	53.89024	33819177
7	Hapmap59272-rs29027266	53.90826	33849742
7	BTB-01127725	53.91948	33868759
7	ARS-BFGL-NGS-29286	53.94274	33908205
7	Hapmap25303-BTA-150600	53.9603	33937983
7	Hapmap40094-BTA-95613	53.97997	33971340
7	BTA-95616-no-rs	54.00394	34011987
7	BTA-95590-no-rs	54.02562	34048742
7	ARS-BFGL-NGS-94637	54.058	34103661
7	ARS-BFGL-NGS-27096	54.09011	34158112
7	BTB-01701380	54.11057	34192804
7	BTB-01114855	54.15556	34269024
7	BTB-01114921	54.18863	34324708
7	BTB-01114950	54.25982	34444572
7	Hapmap23154-BTA-147871	54.31318	34534432
7	BTB-01115116	54.32789	34559205
7	BTB-01115160	54.35906	34611681
7	BTB-01947935	54.37199	34633456
7	Hapmap27673-BTA-87935	54.39876	34678536
7	BTB-01115281	54.4536	34786940
7	BTB-01426243	54.48513	34861506
7	BTB-01115349	54.51287	34927117
7	BTB-01115415	54.52079	34945844
7	Hapmap49378-BTA-92183	54.54511	35003374
7	BTB-01426197	54.56019	35039034
7	Hapmap51146-BTA-112717	54.57399	35071656
7	BTA-112718-no-rs	54.58586	35099734
7	BTA-112727-no-rs	54.59488	35121077
7	UA-IFASA-4904	54.6085	35153271

7	Hapmap44527-BTA-17793	54.62497	35192245
7	UA-IFASA-4938	54.65	35267018
7	Hapmap29151-BTA-152059	54.74288	35393317
7	Hapmap42755-BTA-99683	54.81984	35433379
7	ARS-BFGL-NGS-118984	54.95911	35505888
7	ARS-BFGL-NGS-76864	55.00953	35532135
7	Hapmap52098-rs29017346	55.05878	35557779
7	Hapmap31148-BTA-151907	55.10403	35581341
7	BTA-99260-no-rs	55.42788	35749940
7	Hapmap60838-rs29022006	55.55894	35818176
7	Hapmap49931-BTA-24741	55.60411	35841692
7	ARS-BFGL-NGS-21406	55.71353	35898655
7	BTA-104005-no-rs	56.11168	36105942
7	BTB-01172317	56.15308	36127497
7	ARS-BFGL-NGS-50498	56.25113	36178539
7	ARS-BFGL-NGS-116976	56.45666	36285544
7	ARS-BFGL-NGS-24921	56.51056	36313609
7	Hapmap51426-BTA-24748	56.62708	36374272
7	Hapmap30056-BTA-162361	56.70988	36417376
7	BTA-117579-no-rs	56.91877	36526130
7	Hapmap49875-BTA-116192	56.97417	36554973
7	ARS-BFGL-NGS-112944	57.05981	36599560
7	ARS-BFGL-NGS-117425	57.44752	36801410
7	BTA-116198-no-rs	57.55953	36859724
7	ARS-BFGL-NGS-25755	57.60656	36884206
7	BTB-01239454	57.6496	36906620
7	Hapmap50137-BTA-87293	57.8154	36992936
7	ARS-BFGL-NGS-25430	57.88334	37028304
7	ARS-BFGL-NGS-109814	57.96436	37070486
7	ARS-BFGL-NGS-73321	58.0048	37091539
7	BTB-01875135	58.06881	37124869
7	BTB-01875088	58.11791	37150427
7	ARS-BFGL-NGS-110126	58.17589	37180616
7	Hapmap50470-BTA-78777	58.33071	37261214
7	BTB-00304299	58.38488	37289420
7	BTB-00303994	58.52849	37364183
7	BTA-78768-no-rs	58.58625	37394257
7	Hapmap39291-BTA-78760	58.77153	37490718
7	ARS-BFGL-NGS-10897	58.9066	37663110
7	ARS-BFGL-NGS-328	58.91987	37690359
7	BTB-01945504	58.99245	37839380
7	BTA-90692-no-rs	59.00513	37865409
7	BTB-01414346	59.02613	37908535
7	Hapmap49758-BTA-78793	59.04773	37952883
7	BTB-00304608	59.06288	37983978
7	Hapmap54492-rs29018585	59.0823	38023859
7	BTB-00304702	59.09324	38046316
7	Hapmap58358-rs29011315	59.10735	38075277
7	UA-IFASA-2263	59.20286	38123606
7	BTB-00305112	59.47179	38196134
7	BTB-00633844	59.60537	38268917
7	Hapmap24493-BTA-150258	59.64803	38382424
7	Hapmap41111-BTA-94756	59.6596	38413207
7	Hapmap48654-BTA-121800	59.6766	38458456
7	ARS-BFGL-NGS-49609	59.71296	38555200
7	BTB-00305676	59.72401	38584625
7	ARS-BFGL-NGS-18596	59.73493	38613662
7	ARS-BFGL-NGS-109201	59.75776	38674403
7	ARS-BFGL-NGS-108743	59.76831	38702501

7	ARS-BFGL-NGS-116368	59.77637	38723948	
7	BTA-78816-no-rs	59.7901	38760463	
7	BTA-78815-no-rs	59.79767	38780609	
7	Hapmap47734-BTA-78811	59.81002	38813487	
7	ARS-BFGL-NGS-97125	59.81872	38836622	
7	BTB-01364902	59.82724	38859302	
7	ARS-BFGL-NGS-36580	59.86098	38879723	
7	ARS-BFGL-NGS-17959	59.91957	38904457	
7	ARS-BFGL-NGS-8371	59.98523	38932174	
7	BTB-01364730	60.06811	38967158	
7	Hapmap32661-BTA-28979	60.14113	38997984	
7	ARS-BFGL-NGS-18669	60.21212	39027951	
7	Hapmap43828-BTA-28993	60.29007	39060855	
7	BTA-28988-no-rs	60.35116	39087132	
7	BTB-01364448	60.4026	39110034	
7	ARS-BFGL-NGS-33913	60.50038	39172213	
7	ARS-BFGL-NGS-96929	60.52457	39194154	
7	ARS-BFGL-NGS-115370	60.5602	39226471	
7	ARS-BFGL-NGS-40181	60.60511	39267202	
7	ARS-BFGL-NGS-26917	60.67145	39327370	
7	ARS-BFGL-NGS-119880	60.72022	39371602	
7	ARS-BFGL-NGS-35666	60.74363	39392834	
7	Hapmap36526-SCAFFOLD150535_3651		60.85857	39497085
7	BTA-78831-no-rs	60.89528	39530375	
7	ARS-BFGL-NGS-13911	60.92109	39553781	
7	ARS-BFGL-NGS-19606	60.99411	39620003	
7	ARS-BFGL-NGS-81749	61.0323	39658828	
7	ARS-BFGL-NGS-88753	61.05136	39679687	
7	Hapmap42405-BTA-104111	61.07631	39706989	
7	BTB-01562090	61.10427	39737588	
7	ARS-BFGL-NGS-115766	61.12682	39762269	
7	Hapmap42042-BTA-104105	61.16304	39801912	
7	UA-IFASA-8863	61.29335	39944515	
7	ARS-BFGL-NGS-116385	61.3154	39968647	
7	Hapmap56941-ss46526050	61.46866	40136380	
7	ARS-BFGL-NGS-109810	61.49594	40166242	
7	ARS-BFGL-NGS-114388	61.52906	40202483	
7	ARS-BFGL-NGS-13640	61.6096	40290621	
7	ARS-BFGL-NGS-12006	61.65239	40337451	
7	ARS-BFGL-NGS-76638	61.8136	40513886	
7	BTA-78638-no-rs	61.89128	40598898	
7	ARS-BFGL-NGS-14988	61.90838	40617615	
7	ARS-BFGL-NGS-113876	61.93266	40644182	
7	Hapmap35385-SCAFFOLD265562_8165		61.95278	40666199
7	ARS-BFGL-NGS-111041	61.98536	40701860	
7	ARS-BFGL-NGS-101559	62.00507	40723430	
7	BTB-01849321	62.03144	40752293	
7	ARS-BFGL-NGS-119019	62.08064	40806130	
7	BTB-01558306	62.09981	40827112	
7	ARS-BFGL-NGS-108870	62.128	40857968	
7	Hapmap47162-BTA-103817	62.1583	40891124	
7	BTB-01651778	62.2452	40986230	
7	BTB-02000880	62.26678	41009847	
7	ARS-BFGL-NGS-76661	62.28542	41030244	
7	BTB-01683822	62.30612	41052904	
7	Hapmap41157-BTA-113254	62.33008	41079124	
7	UA-IFASA-9367	62.3662	41114885	
7	BTB-00631103	62.41789	41163996	
7	BTB-02073790	62.4633	41207144	

7	BTB-01560842	62.51628	41257488
7	BTB-00301765	62.61567	41351936
7	ARS-BFGL-NGS-119353	62.68508	41417884
7	ARS-BFGL-NGS-95004	62.71433	41445679
7	BTB-00306845	62.73573	41466011
7	BTB-01651416	62.79885	41525995
7	ARS-BFGL-NGS-10375	62.87016	41565963
7	ARS-BFGL-NGS-7972	63.37537	41696454
7	ARS-BFGL-NGS-88233	63.43026	41718041
7	ARS-BFGL-NGS-69727	63.4311	41742027
7	Hapmap42677-BTA-78866	63.4324	41779152
7	ARS-BFGL-NGS-30468	63.43333	41805531
7	BTA-78877-no-rs	63.43441	41836404
7	BTA-78883-no-rs	63.43579	41875877
7	ARS-BFGL-NGS-69831	63.4386	41956061
7	ARS-BFGL-NGS-101154	63.58044	42052923
7	BTB-00368557	63.73138	42114044
7	ARS-BFGL-NGS-12532	63.78645	42136341
7	BTB-00368665	63.97934	42214450
7	ARS-BFGL-NGS-33401	64.09718	42262165
7	BTB-01597787	64.17435	42293409
7	UA-IFASA-6047	64.25123	42324539
7	BTB-01957176	64.53653	42440064
7	ARS-BFGL-NGS-100845	64.58652	42460306
7	BTB-02038315	64.64409	42521261
7	BTB-01871912	64.66339	42580647
7	BTB-00307738	64.67281	42609605
7	BTB-00307534	64.6757	42618497
7	BTB-00307598	64.68433	42645056
7	BTB-01207097	64.73836	42811272
7	BTB-01207246	64.7494	42845260
7	BTB-01207592	64.78284	42948148
7	BTB-01207612	64.79465	42984458
7	Hapmap50866-BTA-110548	64.80202	43007150
7	ARS-BFGL-NGS-92910	64.81821	43056953
7	ARS-BFGL-NGS-101873	64.83149	43097791
7	BTB-01207822	64.84274	43132401
7	ARS-BFGL-NGS-104485	64.8506	43156587
7	ARS-BFGL-NGS-76328	64.87778	43224755
7	BTB-02092796	64.95704	43311132
7	ARS-BFGL-NGS-109564	65.00101	43359066
7	BTB-01561790	65.02547	43385709
7	BTB-01561766	65.06077	43424183
7	BTB-01964039	65.11178	43479777
7	BTB-02079599	65.16541	43538228
7	ARS-BFGL-NGS-23491	65.2149	43592173
7	ARS-BFGL-NGS-13798	65.27082	43653110
7	BTB-00308411	65.41349	43808593
7	ARS-BFGL-NGS-7310	65.48309	43884451
7	ARS-BFGL-NGS-119127	65.50498	43908308
7	ARS-BFGL-NGS-94413	65.53589	43941988
7	ARS-BFGL-NGS-35596	65.55884	43966998
7	BTB-00308656	65.5887	43999546
7	BTB-00308737	65.6215	44035288
7	BTB-01713009	65.71394	44136041
7	BTB-01991791	66.2962	44490836
7	ARS-BFGL-NGS-104510	66.46188	44590954
7	ARS-BFGL-NGS-112360	66.51026	44620188
7	Hapmap46695-BTA-26440	66.57356	44658442

7	ARS-BFGL-NGS-74330	66.62	44720216	
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7	ARS-BFGL-NGS-75099	66.62	44806018	
7	ARS-BFGL-NGS-64546	66.62	44835016	
7	ARS-BFGL-NGS-5136	66.62	44901489	
7	ARS-BFGL-NGS-100100	66.98123	45135080	
7	ARS-BFGL-NGS-54341	67.02953	45162340	
7	Hapmap47202-BTA-121802	67.09048	45196738	
7	ARS-BFGL-NGS-24413	67.32179	45327282	
7	ARS-BFGL-NGS-22438	67.38347	45362087	
7	ARS-BFGL-NGS-109712	67.42142	45383502	
7	ARS-BFGL-NGS-109750	67.47196	45412030	
7	ARS-BFGL-NGS-37158	67.52058	45439468	
7	ARS-BFGL-NGS-87868	67.62289	45497213	
7	ARS-BFGL-NGS-115860	67.73329	45559515	
7	ARS-BFGL-NGS-107073	67.87328	45638520	
7	ARS-BFGL-NGS-6970	68.06321	45745709	
7	ARS-BFGL-NGS-99231	68.27576	45865662	
7	Hapmap49311-BTA-78907	68.42262	45948544	
7	ARS-BFGL-NGS-83376	68.51554	46000989	
7	ARS-BFGL-NGS-69626	68.55824	46025089	
7	ARS-BFGL-NGS-31234	68.68031	46109256	
7	Hapmap42327-BTA-78943	68.74168	46190019	
7	ARS-BFGL-NGS-73655	68.8206	46293900	
7	Hapmap43477-BTA-116657	68.86656	46354401	
7	BTB-00309317	68.94185	46453487	
7	ARS-BFGL-NGS-69121	68.9601	46477516	
7	ARS-BFGL-NGS-21638	69.00556	46537357	
7	BTB-00309040	69.01799	46553716	
7	ARS-BFGL-NGS-45683	69.03404	46574843	
7	ARS-BFGL-NGS-106936	69.07359	46626888	
7	Hapmap27055-BTA-99423	69.12976	46700828	
7	ARS-BFGL-NGS-35767	69.15312	46731571	
7	ARS-BFGL-NGS-62792	69.1692	46752740	
7	ARS-BFGL-NGS-116420	69.21082	46807523	
7	ARS-BFGL-NGS-10710	69.24818	46856706	
7	ARS-BFGL-NGS-64956	69.26859	46883556	
7	ARS-BFGL-NGS-62333	69.28272	46902161	
7	BTA-88698-no-rs	69.30366	46929710	
7	ARS-BFGL-NGS-58321	69.32244	46954435	
7	BTB-01400946	69.34288	46981340	
7	Hapmap47127-BTA-88691	69.3587	47002161	
7	BTB-00310214	69.37248	47020307	
7	ARS-BFGL-NGS-94758	69.40187	47058986	
7	Hapmap34406-BES2_Contig344_1026	69.4234	47087320	
7	ARS-BFGL-NGS-66832	69.43879	47107575	
7	ARS-BFGL-NGS-24225	69.46	47136122	
7	ARS-BFGL-NGS-76390	69.46	47162335	
7	BTB-00309643	69.46	47213804	
7	ARS-BFGL-NGS-12557	69.46	47252135	
7	ARS-BFGL-NGS-20141	69.46	47274866	
7	ARS-BFGL-NGS-73679	69.46	47313107	
7	ARS-BFGL-NGS-5595	69.46	47349962	
7	BTA-78954-no-rs	69.46417	47384327	
7	Hapmap50586-BTA-118480	70.02071	47617783	
7	Hapmap42133-BTA-21378	70.0919	47652106	
7	BTB-01846474	70.1156	47717578	
7	BTB-00310752	70.14811	47807367	
7	ARS-BFGL-NGS-111519	70.15912	47837778	



7	BTB-00310653	70.16985	47867425
7	BTA-79025-no-rs	70.17886	47892300
7	ARS-BFGL-NGS-84417	70.20145	47954688
7	BTB-00310554	70.2123	47984663
7	Hapmap43181-BTA-121808	70.22275	48013516
7	ARS-BFGL-NGS-97073	70.23351	48043260
7	ARS-BFGL-NGS-100466	70.24254	48068180
7	ARS-BFGL-NGS-26034	70.25025	48089488
7	ARS-BFGL-NGS-43053	70.26518	48130720
7	ARS-BFGL-NGS-103354	70.28111	48174727
7	ARS-BFGL-NGS-15177	70.29691	48218360
7	ARS-BFGL-NGS-11634	70.33085	48312113
7	BTA-79002-no-rs	70.34541	48352338
7	ARS-BFGL-NGS-105438	70.35414	48376442
7	ARS-BFGL-NGS-79199	70.37769	48441476
7	BTB-00310975	70.38837	48470968
7	ARS-BFGL-NGS-18762	70.39753	48496273
7	ARS-BFGL-NGS-81015	70.4103	48531566
7	ARS-BFGL-NGS-110899	70.42226	48564608
7	ARS-BFGL-NGS-53552	70.43137	48589737
7	ARS-BFGL-NGS-52872	70.47462	48709232
7	ARS-BFGL-NGS-102270	70.51216	48812901
7	ARS-BFGL-NGS-63186	70.52522	48848965
7	ARS-BFGL-NGS-89563	70.5371	48881790
7	BTB-01473837	70.54681	48908617
7	ARS-BFGL-NGS-5619	70.56079	48947232
7	Hapmap52786-rs29024076	70.57189	48977889
7	BTB-00310271	70.57961	48999205
7	ARS-BFGL-NGS-19979	70.61044	49084339
7	Hapmap48469-BTA-78982	70.61781	49104721
7	Hapmap48894-BTA-78978	70.63257	49145480
7	ARS-BFGL-NGS-111709	70.66786	49242955
7	BTA-95797-no-rs	70.70075	49333804
7	ARS-BFGL-NGS-34658	71.10475	49465390
7	Hapmap25381-BTA-95792	71.27028	49510021
7	ARS-BFGL-NGS-99261	71.51437	49715020
7	ARS-BFGL-NGS-1457	71.60851	49794088
7	ARS-BFGL-NGS-21658	71.72865	49894987
7	ARS-BFGL-NGS-41109	71.75915	49920600
7	ARS-BFGL-NGS-33600	71.85306	49999470
7	ARS-BFGL-NGS-37513	71.92053	50056139
7	ARS-BFGL-NGS-80736	71.96809	50096086
7	ARS-BFGL-NGS-108768	72.01773	50137774
7	ARS-BFGL-NGS-44221	72.04774	50162984
7	ARS-BFGL-NGS-72600	72.09839	50205517
7	ARS-BFGL-NGS-57250	72.12421	50227210
7	ARS-BFGL-NGS-41092	72.18237	50276051
7	ARS-BFGL-NGS-12518	72.27158	50350967
7	ARS-BFGL-NGS-118568	72.311	50384079
7	ARS-BFGL-NGS-43186	72.38734	50448202
7	BTA-79057-no-rs	72.43508	50488296
7	ARS-BFGL-NGS-71772	72.45966	50508931
7	ARS-BFGL-NGS-106241	72.49813	50541246
7	ARS-BFGL-NGS-27736	72.54165	50577792
7	ARS-BFGL-NGS-19514	72.66026	50677409
7	BTA-79071-no-rs	72.73636	50741324
7	Hapmap26240-BTA-86641	72.84027	50828600
7	Hapmap41971-BTA-79077	73.06979	51021369
7	BTA-79078-no-rs	73.20278	51127488

7	Hapmap44135-BTA-79079	73.24728	51157314		
7	ARS-BFGL-NGS-23933	73.86954	51574295		
7	Hapmap24150-BTA-145103	74.7096	52224595		
7	ARS-BFGL-NGS-64072	74.77153	52288861		
7	Hapmap41088-BTA-78936	74.87568	52419683		
7	ARS-BFGL-NGS-49512	74.93105	52489226		
7	ARS-BFGL-NGS-96103	74.97826	52548541		
7	ARS-BFGL-NGS-113873	74.99718	52572307		
7	ARS-BFGL-NGS-118289	75.02077	52601941		
7	ARS-BFGL-NGS-111444	75.08471	52682240		
7	ARS-BFGL-NGS-43299	75.1154	52720797		
7	Hapmap43049-BTA-78931	75.16948	52788724		
7	Hapmap44410-BTA-78928	75.22687	52861252		
7	Hapmap50471-BTA-78923	75.25843	52902976		
7	ARS-BFGL-NGS-37891	75.31512	52977921		
7	ARS-BFGL-NGS-96012	75.40866	53101552		
7	Hapmap49313-BTA-78953	75.48335	53200271		
7	ARS-BFGL-NGS-12471	75.58601	53335971		
7	Hapmap48468-BTA-78949	75.64	53468463		
7	Hapmap49312-BTA-78944	75.64	53510176		
7	Hapmap42803-BTA-110000	75.6728	53664924		
7	ARS-BFGL-NGS-33637	75.74636	53859609		
7	Hapmap43981-BTA-98707	75.76463	53907954		
7	ARS-BFGL-NGS-20197	75.77405	53932886		
7	BTA-112367-no-rs	75.81889	54051562		
7	Hapmap59144-ss46526752	75.83018	54081460		
7	ARS-BFGL-NGS-49427	75.83781	54101652		
7	ARS-BFGL-NGS-15368	75.85522	54147690		
7	ARS-BFGL-NGS-105324	75.87881	54210151		
7	ARS-BFGL-NGS-3839	75.97139	54455147		
7	ARS-BFGL-NGS-114525	75.98563	54492812		
7	ARS-BFGL-NGS-105148	76.014	54567919		
7	ARS-BFGL-NGS-25352	76.03831	54632239		
7	Hapmap41358-BTA-79117	76.05053	54664575		
7	ARS-BFGL-NGS-118731	76.06454	54701646		
7	UA-IFASA-9712	76.08025	54735242		
7	BTA-79101-no-rs	76.11016	54773892		
7	ARS-USMARC-Parent-DQ650635-rs29012174	76.40225	55116289		
7	Hapmap35191-BES11_Contig367_1030	76.46277	55144387		
7	ARS-BFGL-NGS-25586	76.52972	55175470		
7	ARS-BFGL-NGS-97323	76.60258	55209306		
7	Hapmap58878-rs29013232	76.66375	55237703		
7	ARS-BFGL-NGS-84202	76.89601	55345542		
7	ARS-BFGL-NGS-111377	77.08855	55434939		
7	ARS-BFGL-NGS-18096	77.12818	55453345		
7	BTA-66896-no-rs	77.18326	55478917		
7	Hapmap45958-BTA-79125	77.33076	55547398		
7	ARS-BFGL-NGS-110246	77.40504	55655916		
7	ARS-BFGL-NGS-65354	77.43249	55721201		
7	ARS-BFGL-NGS-3967	77.46242	55792363		
7	Hapmap58262-rs29024901	77.47146	55813851		
7	Hapmap49791-BTA-90282	77.49348	55866222		
7	Hapmap42241-BTA-52719	77.54759	55994876		
7	Hapmap51384-BTA-108597	77.55933	56022790		
7	ARS-BFGL-NGS-118213	77.57304	56055399		
7	ARS-BFGL-NGS-117242	77.58394	56081309		
7	Hapmap52400-rs29025316	77.60465	56130546		
7	ARS-BFGL-NGS-14880	77.6138	56152302		
7	Hapmap41418-BTA-108601	77.6545	56249061		

7	BTA-108606-no-rs	77.67178	56290162
7	ARS-BFGL-NGS-19455	77.70742	56374904
7	BTB-01195060	77.71767	56399266
7	BTB-01195069	77.72604	56419168
7	ARS-BFGL-NGS-62351	77.74801	56471412
7	ARS-BFGL-NGS-116933	77.87222	56766754
7	ARS-BFGL-NGS-59630	77.88262	56791479
7	BTA-104715-no-rs	77.93258	56910268
7	BTB-01176025	77.9466	56943610
7	BTB-01176013	77.96609	56989949
7	BTA-104712-no-rs	77.97504	57011212
7	BTB-01175783	78.0015	57074129
7	BTB-01175761	78.02319	57125713
7	BTB-00311362	78.04414	57175519
7	ARS-BFGL-NGS-55477	78.0834	57268891
7	Hapmap54976-rs29019286	78.111	57334500
7	ARS-BFGL-NGS-22197	78.12064	57357439
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7	Hapmap47768-BTA-88477	78.36932	57449993
7	BTA-88472-no-rs	78.48002	57482519
7	ARS-BFGL-NGS-65670	78.49	57508556
7	ARS-BFGL-NGS-107103	78.49	57554684
7	BTB-01641665	78.49	57575330
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7	Hapmap54597-rs29019273	78.49	57641183
7	Hapmap59042-rs29025710	78.49	57703177
7	Hapmap51169-BTA-122103	78.49	57748551
7	Hapmap50825-BTA-93321	78.49	57844905
7	BTB-01129804	78.49	57887001
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7	BTB-01130079	78.49	58255324
7	Hapmap28133-BTA-149820	78.49	58294551
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7	ARS-BFGL-NGS-17929	78.49	58381975
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7	ARS-BFGL-NGS-33130	78.49	58667344
7	ARS-BFGL-NGS-36058	78.49	58685318
7	ARS-BFGL-NGS-16214	78.49	58706549
7	BTB-00312468	78.49	58732575
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7	BTB-00312421	78.49	58809602
7	Hapmap50784-BTA-79418	78.49	58844914
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7	Hapmap48553-BTA-10000	78.49	59019641
7	BTB-01950618	78.49	59040719
7	BTB-00311573	78.49	59077322
7	BTA-79372-no-rs	78.49	59118816
7	BTB-00311603	78.49	59142743
7	ARS-BFGL-NGS-40831	78.49	59190662
7	Hapmap43053-BTA-79375	78.49	59251466
7	ARS-BFGL-NGS-37263	78.49	59272012
7	BTB-00311684	78.49	59320896
7	Hapmap30362-BTA-79378	78.49	59353807

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7	ARS-BFGL-NGS-4768	78.49	59447780	
7	ARS-BFGL-NGS-103251	78.49	59517061	
7	ARS-BFGL-NGS-113745	78.49	59558037	
7	ARS-BFGL-NGS-33432	78.49	59590759	
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7	BTB-00311957	78.49	59686629	
7	BTA-87610-no-rs	78.49	59700374	
7	BTB-00313076	78.49	59731620	
7	BTB-00313140	78.49	59766632	
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7	BTB-00313206	78.49	60055026	
7	BTB-00313229	78.49	60088037	
7	BTB-00313327	78.49	60219706	
7	BTB-00313304	78.49	60256771	
7	ARS-BFGL-NGS-56647	78.49	60323501	
7	ARS-BFGL-NGS-70733	78.49	60350025	
7	ARS-BFGL-NGS-10633	78.49	60393420	
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7	Hapmap32167-BTA-79430	78.49	60475602	
7	Hapmap32417-BTA-79435	78.49	60533815	
7	BTB-00312832	78.49	60562576	
7	ARS-BFGL-NGS-29389	78.49	60585197	
7	ARS-BFGL-NGS-24866	78.49	60628965	
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7	Hapmap35301-BES4_Contig133_337	78.49	60848519	
7	BTA-45436-no-rs	78.49	60884458	
7	BTA-79476-no-rs	78.49	60933059	
7	ARS-BFGL-NGS-54377	78.49	61016285	
7	Hapmap54646-rs29025261	78.49	61040300	
7	BTA-79479-no-rs	78.49	61064593	
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7	ARS-BFGL-NGS-18460	78.49	61118860	
7	BTA-79494-no-rs	78.49	61142271	
7	Hapmap40209-BTA-21871	78.49	61174151	
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7	ARS-BFGL-NGS-70932	78.49	61228269	
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7	BTB-01771953	78.49	61543123	
7	BTB-00709083	78.49	61645991	
7	Hapmap31211-BTA-29377	78.49	61657613	
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7	ARS-BFGL-NGS-110765	78.49	61707355	
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7	BTA-46482-no-rs	78.49	61879960	
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7	BTB-00737899	78.49	61956669	
7	BTB-00737840	78.49	61992242	
7	BTB-01700292	78.49	62020599	
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7	ARS-BFGL-NGS-29738	78.49	62118773	
7	ARS-BFGL-NGS-23282	78.49	62145130	
7	BTB-01599309	78.49	62196985	
7	UA-IFASA-2	78.49	62230328	

7	BTB-00315489	78.50558	62266710
7	Hapmap58038-rs29013244	78.54536	62508803
7	ARS-BFGL-NGS-201	78.54931	62532817
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7	ARS-BFGL-NGS-11392	78.57101	62664915
7	ARS-BFGL-NGS-65476	78.57815	62708301
7	ARS-BFGL-NGS-112701	78.58984	62779453
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7	Hapmap50476-BTA-79543	78.60793	62889548
7	BTB-00315110	78.61896	62956627
7	ARS-BFGL-NGS-26618	78.62248	62978076
7	BTB-01771007	78.62725	63007092
7	ARS-BFGL-NGS-34649	78.63223	63037380
7	Hapmap40463-BTA-79519	78.63474	63052639
7	ARS-BFGL-NGS-10231	78.66145	63215249
7	ARS-BFGL-NGS-114992	78.66418	63231799
7	BTB-00314778	78.66814	63255889
7	BTB-00314842	78.67551	63300781
7	Hapmap49317-BTA-79529	78.67948	63324945
7	ARS-BFGL-NGS-117682	78.68952	63386032
7	ARS-BFGL-NGS-88666	78.70739	63494788
7	BTA-79386-no-rs	78.71138	63519073
7	BTB-00312091	78.71611	63547825
7	ARS-BFGL-NGS-38651	78.7197	63569723
7	Hapmap47414-BTA-79396	78.73821	63682321
7	ARS-BFGL-NGS-10601	78.76033	63816939
7	ARS-BFGL-NGS-41589	78.76476	63843833
7	BTA-79405-no-rs	78.7743	63901946
7	ARS-BFGL-NGS-100948	78.77975	63935103
7	Hapmap54307-rs29014078	78.78497	63966892
7	BTB-00312274	78.78948	63994320
7	ARS-BFGL-NGS-109962	78.79414	64022666
7	UA-IFASA-5392	78.79967	64056299
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7	ARS-BFGL-NGS-13342	78.81409	64144040
7	ARS-BFGL-NGS-84171	78.81892	64173435
7	ARS-BFGL-NGS-103580	78.82328	64199993
7	ARS-BFGL-NGS-109841	78.83781	64288433
7	ARS-BFGL-NGS-104130	78.84274	64318437
7	ARS-BFGL-NGS-117221	78.85252	64377869
7	BTB-00315902	78.85856	64414652
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7	ARS-BFGL-NGS-14706	78.88255	64560605
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7	ARS-BFGL-NGS-112893	78.90612	64704068
7	Hapmap48570-BTA-104179	78.91008	64728155
7	ARS-BFGL-NGS-105590	78.91644	64766846
7	ARS-BFGL-NGS-119670	78.9216	64798262
7	Hapmap47416-BTA-79601	78.9259	64824448
7	BTB-00316291	78.93704	64892251
7	ARS-BFGL-NGS-14738	78.94131	64918202
7	BTB-00316348	78.94486	64939808
7	ARS-BFGL-NGS-11636	78.95029	64972893
7	BTB-00316518	78.95648	65010522
7	ARS-BFGL-NGS-113181	78.96	65047126
7	Hapmap40464-BTA-79604	78.96	65071894
7	BTB-00316650	78.96	65098028

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7	BTA-100740-no-rs	78.96	65156756
7	ARS-BFGL-NGS-103035	78.96	65245810
7	BTB-01558699	78.96	65287030
7	Hapmap41133-BTA-103830	78.96	65331073
7	Hapmap43748-BTA-103824	78.96	65358446
7	BTA-103820-no-rs	78.96	65379758
7	BTB-02035459	78.96	65414632
7	BTB-01219396	78.96	65440735
7	BTB-01219358	78.96	65470615
7	BTB-01219349	78.96	65497498
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7	BTB-01219012	78.96	65799159
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7	ARS-BFGL-NGS-6029	78.96	65930546
7	ARS-BFGL-NGS-104938	78.96	65944021
7	BTA-28702-no-rs	78.96	66061402
7	Hapmap35285-BES4_Contig405_551	78.96	66156674
7	BTA-12698-rs29024650	78.96	66212415
7	Hapmap41494-BTA-28685	78.96	66254499
7	BTA-28679-no-rs	78.96	66281885
7	BTB-01880776	78.96	66303743
7	BTB-01880736	78.96	66328623
7	BTA-28678-no-rs	78.96	66371316
7	BTB-01105928	78.96	66428726
7	ARS-BFGL-NGS-65587	79.00	66450039
7	BTB-01105755	79.04	66525530
7	BTB-01105691	79.08	66614258
7	BTB-01697487	79.09	66645827
7	BTB-01697440	79.11	66673891
7	BTB-01697400	79.12	66702151
7	BTB-00317489	79.13	66722552
7	ARS-BFGL-NGS-95366	79.15	66758460
7	BTA-12616-no-rs	79.20	66880535
7	BTA-79668-no-rs	79.23	66921835
7	ARS-BFGL-NGS-34086	79.27	66951622
7	BTA-97930-no-rs	79.31	66981407
7	ARS-BFGL-NGS-39972	79.35	67011046
7	BTB-00318021	79.38	67033026
7	Hapmap50107-BTA-79606	79.46	67097507
7	BTA-79609-no-rs	79.49	67118346
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7	ARS-BFGL-NGS-42452	79.69	67265746
7	ARS-BFGL-NGS-104252	79.79	67342317
7	ARS-BFGL-NGS-113344	79.81	67363801
7	ARS-BFGL-NGS-89868	79.86	67399054
7	ARS-BFGL-NGS-15617	79.92	67442121
7	ARS-BFGL-NGS-102603	79.99	67495781
7	BTB-00316982	80.28	67774508
7	BTB-00317097	80.33	67831199
7	BTB-01854386	80.41	67913254
7	BTB-00317449	80.60	67988519

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7	BTA-19102-no-rs	81.75281	68407836
7	BTA-88775-no-rs	81.76507	68436319
7	BTA-109542-no-rs	81.77583	68461305
7	Hapmap27005-BTA-155483	81.78752	68488456
7	ARS-BFGL-NGS-101602	81.79978	68516924
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7	BTB-01121435	81.86417	68666448
7	ARS-BFGL-NGS-10443	81.88	68747239
7	BTB-01995337	81.88	68784628
7	Hapmap33032-BTA-148803	81.88	68830299
7	ARS-BFGL-NGS-75486	81.89351	69004072
7	BTA-90219-no-rs	81.96367	69079951
7	BTB-01121005	81.98657	69104720
7	BTA-90212-no-rs	82.01718	69137824
7	Hapmap51517-BTA-90225	82.10552	69233370
7	BTB-01930869	82.17204	69305308
7	Hapmap54916-rs29023505	82.22945	69367406
7	BTA-119609-no-rs	82.27644	69418216
7	ARS-BFGL-NGS-79429	82.32299	69468569
7	ARS-BFGL-NGS-90561	82.34788	69495479
7	BTB-01174309	82.37118	69520683
7	BTB-01174051	82.51122	69672142
7	BTB-01173832	82.58632	69753365
7	ARS-BFGL-NGS-70896	82.60777	69776569
7	ARS-BFGL-NGS-33067	82.66081	69833936
7	ARS-BFGL-NGS-7098	82.69207	69867738
7	ARS-BFGL-NGS-33929	82.72057	69898570
7	ARS-BFGL-NGS-61492	82.82536	70011889
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7	ARS-BFGL-NGS-34919	83.17844	70393765
7	Hapmap41158-BTA-113441	83.23404	70453894
7	ARS-BFGL-NGS-104924	83.26144	70483529
7	BTA-113434-no-rs	83.29201	70516589
7	BTA-27273-no-rs	83.83395	70804701
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7	ARS-BFGL-NGS-110264	84.50623	70968179
7	ARS-BFGL-NGS-7756	84.52443	70988849
7	ARS-BFGL-NGS-35004	84.56771	71038040
7	ARS-BFGL-NGS-82026	84.6	71141471
7	ARS-BFGL-NGS-115639	84.6	71201175
7	ARS-BFGL-NGS-12863	84.6	71240079
7	BTA-79723-no-rs	84.6	71366963
7	Hapmap55701-rs29018719	84.6	71412946
7	Hapmap52688-rs29024581	84.6	71440821
7	ARS-BFGL-NGS-75852	84.63158	71545383
7	ARS-BFGL-NGS-23091	84.68004	71614369
7	BTB-00318572	84.75582	71722224
7	BTB-00318563	84.78522	71764060
7	BTB-01738526	84.81663	71808779
7	BTB-00318531	84.85996	71870458
7	ARS-BFGL-NGS-114649	84.87563	71892762
7	ARS-BFGL-NGS-43040	85.0208	72099380
7	ARS-BFGL-NGS-68351	85.05251	72144515

7	BTB-00318475	85.086	72192173
7	ARS-BFGL-NGS-95195	85.13656	72264142
7	ARS-BFGL-NGS-117673	85.15351	72288274
7	ARS-BFGL-NGS-87456	85.24889	72424026
7	BTB-00318749	85.2644	72446116
7	ARS-BFGL-NGS-14756	85.30429	72502891
7	Hapmap44912-BTA-79745	85.35995	72582112
7	BTB-00318846	85.3745	72602819
7	BTA-79755-no-rs	85.46632	72695622
7	BTB-00318952	85.51493	72732120
7	Hapmap29480-BTA-145229	85.54632	72755685
7	Hapmap26235-BTA-79759	85.63795	72824476
7	BTA-79764-no-rs	85.65584	72837915
7	Hapmap51050-BTA-79767	85.71577	72882903
7	BTB-00318996	85.7499	72908532
7	BTB-00319090	85.78072	72931661
7	ARS-BFGL-NGS-41157	86.07944	73155944
7	ARS-BFGL-NGS-1077	86.14172	73202702
7	BTA-79679-no-rs	86.19294	73241149
7	BTA-113124-no-rs	86.25905	73290787
7	BTA-113123-no-rs	86.32508	73340360
7	ARS-BFGL-NGS-109892	86.33025	73344236
7	BTB-00318253	86.36498	73370317
7	ARS-BFGL-NGS-116640	86.55262	73511189
7	Hapmap53757-rs29023533	86.60413	73549865
7	ARS-BFGL-NGS-100082	86.63373	73572091
7	BTB-00319497	86.66517	73595691
7	ARS-BFGL-NGS-62939	86.69687	73619490
7	Hapmap43944-BTA-79809	86.74431	73655100
7	ARS-BFGL-NGS-116600	86.77186	73675794
7	BTB-00319402	86.81914	73711288
7	ARS-BFGL-NGS-117165	86.87515	73753347
7	BTB-00319289	86.89804	73777772
7	ARS-BFGL-NGS-111864	86.91933	73812946
7	ARS-BFGL-NGS-11595	86.94466	73854810
7	ARS-BFGL-NGS-56080	86.96403	73886801
7	ARS-BFGL-NGS-63249	86.99601	73939652
7	Hapmap38197-BTA-115802	87.01766	73975422
7	ARS-BFGL-NGS-28100	87.07262	74066243
7	Hapmap38631-BTA-79810	87.08987	74094730
7	BTB-00448579	87.13358	74166945
7	BTA-38342-no-rs	87.15385	74200445
7	BTA-112613-no-rs	87.22679	74320957
7	BTB-01217877	87.24149	74345253
7	ARS-BFGL-NGS-30744	87.25478	74367220
7	ARS-BFGL-NGS-39185	87.28446	74416249
7	BTB-01217778	87.30698	74453457
7	ARS-BFGL-NGS-103777	87.32088	74476430
7	BTB-01217732	87.35775	74537346
7	BTB-01217707	87.37676	74568754
7	BTB-01217667	87.39351	74596426
7	Hapmap50873-BTA-112610	87.41546	74632687
7	BTB-01217507	87.44419	74680158
7	BTB-01217472	87.46205	74709675
7	Hapmap48186-BTA-112617	87.47903	74737726
7	ARS-BFGL-NGS-37793	87.50065	74773447
7	ARS-BFGL-NGS-102365	87.52232	74809260
7	BTB-01738655	87.54469	74846204
7	ARS-BFGL-NGS-107513	87.60516	74946127



7	Hapmap48995-BTA-103787	87.6202	74970972	
7	BTB-01557864	87.64815	75017155	
7	ARS-BFGL-NGS-89239	87.69614	75096446	
7	Hapmap50511-BTA-94590	87.75308	75190535	
7	ARS-BFGL-NGS-12343	87.82254	75305297	
7	Hapmap52738-rs29022304	87.84137	75336419	
7	ARS-BFGL-NGS-100614	87.86192	75370366	
7	BTB-01132427	87.95414	75522733	
7	Hapmap55033-rs29016821	87.99885	75596606	
7	BTB-00319733	88.01915	75630151	
7	BTB-00319743	88.03901	75662956	
7	BTB-00319755	88.05987	75697428	
7	BTB-00319838	88.07877	75728672	
7	BTB-00319857	88.07997	75730641	
7	Hapmap34667-BES3_Contig253_417	88.09778		75760069
7	BTB-01731846	88.11572	75789716	
7	BTB-01731924	88.14056	75830763	
7	ARS-BFGL-NGS-26484	88.17847	75893393	
7	BTB-00328082	88.21923	75960737	
7	ARS-BFGL-NGS-10713	88.25602	76021523	
7	ARS-BFGL-NGS-35829	88.36397	76199889	
7	ARS-BFGL-NGS-23727	88.40623	76269705	
7	BTB-00327890	88.50452	76432106	
7	BTB-00327755	88.54437	76497957	
7	Hapmap42072-BTA-113330	88.61568	76615793	
7	BTB-01222854	88.63143	76641810	
7	BTB-01222634	88.64769	76668676	
7	Hapmap33654-BTA-113328	88.67843	76719459	
7	ARS-BFGL-NGS-11893	88.70397	76761667	
7	BTB-01222434	88.72382	76794446	
7	BTA-113341-no-rs	88.79406	76910516	
7	BTB-01453634	88.83983	76986138	
7	BTB-01453482	88.85529	77011685	
7	BTB-01453354	88.87123	77038018	
7	ARS-BFGL-NGS-114290	88.94813	77165074	
7	Hapmap25581-BTA-149376	88.98373	77223889	
7	Hapmap44626-BTA-91902	89.0219	77286962	
7	Hapmap27181-BTA-148757	89.04916	77332002	
7	Hapmap51654-BTA-90094	89.09669	77391747	
7	BTA-115932-no-rs	89.18036	77435752	
7	Hapmap40658-BTA-115934	89.27503	77485547	
7	ARS-BFGL-NGS-105066	89.32738	77513074	
7	Hapmap26748-BTA-15768	89.39	77607412	
7	BTA-15780-no-rs	89.39	77634909	
7	BTB-01268955	89.39	77700319	
7	BTB-01269021	89.51616	77743281	
7	BTA-15764-no-rs	89.63738	77774904	
7	ARS-BFGL-NGS-97447	89.77728	77811399	
7	ARS-BFGL-NGS-12644	89.94324	77854696	
7	BTB-01269265	90.21259	77924956	
7	BTB-01925882	90.36794	77965485	
7	Hapmap43998-BTA-107878	90.65626	78040701	
7	Hapmap53801-rs29012591	90.81268	78081511	
7	ARS-BFGL-NGS-26789	90.93	78147443	
7	ARS-BFGL-NGS-35321	90.96092	78307528	
7	Hapmap35434-SCAFFOLD296555_4978	90.98299		78327426
7	Hapmap33614-BTA-79859	91.0065	78348620	
7	BTA-98900-no-rs	91.09974	78432686	
7	UA-IFASA-2364	91.26862	78584955	

7	BTA-23130-no-rs	91.28526	78599961
7	ARS-BFGL-NGS-86134	91.36615	78672889
7	BTA-113701-no-rs	91.4184	78719989
7	BTB-01339172	91.50616	78799129
7	BTB-01339206	91.53241	78822792
7	BTB-01339323	91.56535	78852485
7	BTB-01339341	91.5934	78877775
7	BTB-01339356	91.61979	78901577
7	BTA-113712-no-rs	91.65907	78936990
7	ARS-BFGL-NGS-9914	91.69041	78965249
7	BTB-01223707	91.74265	79012351
7	BTB-00321961	91.83636	79096832
7	BTA-79964-no-rs	92.04516	79285097
7	BTB-01549678	92.13936	79370021
7	BTB-01549688	92.1767	79403685
7	ARS-BFGL-NGS-176	92.20786	79431788
7	BTB-01549763	92.24208	79462640
7	BTB-00321734	92.31352	79527052
7	ARS-BFGL-NGS-98599	92.35461	79564106
7	ARS-BFGL-NGS-31863	92.42152	79624430
7	UA-IFASA-8448	92.49126	79691139
7	UA-IFASA-8366	92.49934	79722956
7	BTB-01019973	92.51971	79747454
7	Hapmap51847-BTA-65420	92.56995	79803288
7	Hapmap42286-BTA-65418	92.60329	79840335
7	BTB-00321215	92.65528	79898111
7	BTB-01019887	92.71783	79967613
7	BTB-01273492	92.78493	80042191
7	BTB-01273515	92.80875	80068653
7	BTB-01273562	92.8701	80136828
7	BTB-01273612	92.89616	80165783
7	BTB-01273634	92.92887	80202140
7	Hapmap50899-BTA-16135	92.95393	80229987
7	BTB-01273731	92.99217	80272490
7	ARS-BFGL-NGS-101651	93.02325	80307024
7	BTA-16138-no-rs	93.04237	80328266
7	Hapmap39979-BTA-16142	93.11006	80403492
7	ARS-BFGL-NGS-110279	93.19061	80483871
7	ARS-BFGL-NGS-2181	93.21262	80504356
7	Hapmap49319-BTA-79888	93.24345	80533048
7	BTB-00320041	93.28689	80573481
7	ARS-BFGL-NGS-111073	93.35643	80638204
7	BTB-00320122	93.38087	80660955
7	BTB-00320148	93.45665	80731488
7	BTA-79893-no-rs	93.62159	80885006
7	ARS-BFGL-NGS-71362	93.64416	80906011
7	Hapmap48899-BTA-79966	93.7204	80976979
7	ARS-BFGL-NGS-87398	93.74205	80997126
7	ARS-BFGL-NGS-18898	93.79579	81047142
7	BTB-00320183	93.96685	81206362
7	Hapmap55077-rs29014058	94.03705	81254927
7	BTB-00322735	94.45002	81492059
7	ARS-BFGL-NGS-114593	94.58689	81570647
7	UA-IFASA-2577	94.62335	81591584
7	Hapmap60017-rs29023471	94.75771	81668727
7	ARS-BFGL-NGS-109595	94.80721	81697149
7	Hapmap33211-BTA-145282	95.05061	81836916
7	BTB-00322386	95.09604	81863002
7	BTB-00322452	95.17908	81910678

7	Hapmap50109-BTA-79983	95.27308	81964652	
7	Hapmap43360-BTA-79989	95.37605	82023783	
7	Hapmap40812-BTA-80049	95.63671	82173456	
7	Hapmap50786-BTA-80052	95.7001	82209855	
7	ARS-BFGL-NGS-12785	95.75484	82241276	
7	ARS-BFGL-NGS-13060	95.81183	82274011	
7	ARS-BFGL-NGS-76274	95.86778	82306133	
7	BTB-00323505	95.9239	82338362	
7	ARS-BFGL-NGS-114751	95.99705	82380363	
7	Hapmap60651-rs29021930	96.06567	82419764	
7	ARS-BFGL-NGS-20384	96.15938	82473566	
7	Hapmap34339-BES10_Contig573_944	96.22358		82510435
7	BTB-00322983	96.44241	82711784	
7	ARS-BFGL-NGS-4564	96.444	82762865	
7	ARS-BFGL-NGS-36740	96.44467	82784340	
7	ARS-BFGL-NGS-101456	96.44595	82825197	
7	Hapmap27993-BTA-80011	96.44695	82857269	
7	ARS-BFGL-NGS-64882	96.44901	82923398	
7	BTB-01483377	96.49746	82977192	
7	ARS-BFGL-NGS-11872	96.54365	82998908	
7	BTB-01514150	96.66788	83057326	
7	BTB-01924842	96.71866	83081211	
7	BTB-01514314	96.77973	83109929	
7	BTB-01514268	96.8764	83155384	
7	ARS-BFGL-NGS-69947	97.3903	83397036	
7	BTB-00320903	97.43423	83417698	
7	Hapmap49761-BTA-79932	97.71899	83551608	
7	ARS-BFGL-NGS-11750	97.8218	83599948	
7	BTB-00320521	97.86665	83621039	
7	ARS-BFGL-NGS-2769	97.91162	83648346	
7	BTA-62449-no-rs	98.24031	83866963	
7	BTB-00960162	98.28	83915853	
7	Hapmap42292-BTA-68443	98.28	83945852	
7	Hapmap53869-rs29020071	98.28	84009045	
7	Hapmap55579-rs29017355	98.28	84068296	
7	ARS-BFGL-NGS-100314	98.28	84115592	
7	BTB-01865608	98.28	84145466	
7	BTB-01250664	98.28	84274700	
7	BTB-01250562	98.28	84310411	
7	ARS-BFGL-NGS-26824	98.28	84350928	
7	Hapmap26460-BTA-159673	98.28	84488271	
7	ARS-BFGL-NGS-3154	98.28175	84520981	
7	Hapmap33230-BTA-152909	98.28925	84537259	
7	BTB-01541157	98.31001	84582299	
7	ARS-BFGL-NGS-23639	98.33677	84640371	
7	BTB-01320890	98.3539	84677552	
7	Hapmap39985-BTA-22444	98.42532	84832528	
7	ARS-BFGL-NGS-29764	98.44116	84866897	
7	Hapmap52173-rs29017192	98.45469	84896239	
7	BTB-01321253	98.46813	84925417	
7	ARS-BFGL-NGS-36796	98.47318	84936377	
7	ARS-BFGL-NGS-112487	98.48946	84971705	
7	ARS-BFGL-NGS-80444	98.49875	84991860	
7	ARS-BFGL-NGS-111715	98.50951	85015208	
7	BTB-01362002	98.52151	85041246	
7	BTB-01362030	98.53525	85071041	
7	Hapmap33885-BES9_Contig513_1348	98.58392		85176647
7	ARS-BFGL-NGS-62007	98.60243	85216824	
7	BTB-01503564	98.68125	85387851	

7	BTB-01503544	98.69531	85418365
7	BTB-01503516	98.7157	85462590
7	BTA-119585-no-rs	98.73878	85512674
7	ARS-BFGL-NGS-101993	98.75345	85544523
7	ARS-BFGL-NGS-67190	98.76964	85579651
7	ARS-BFGL-NGS-41702	98.78823	85619989
7	ARS-BFGL-NGS-28236	98.80918	85665441
7	BTA-122383-no-rs	98.81866	85686025
7	BTB-01687158	98.83067	85712075
7	ARS-BFGL-NGS-65574	98.84222	85737117
7	Hapmap51053-BTA-80120	98.87849	85815849
7	Hapmap51203-BTA-28900	98.89819	85858580
7	BTB-01363298	98.94385	85957647
7	Hapmap39437-BTA-80116	98.95012	85971257
7	BTB-00326076	98.98402	86044835
7	BTB-01363214	99.00718	86095078
7	BTB-01363189	99.02341	86130978
7	BTA-117735-no-rs	99.03949	86169121
7	BTB-01742022	99.06046	86218866
7	Hapmap43112-BTA-96532	99.09088	86291041
7	BTB-01141010	99.12153	86363738
7	ARS-BFGL-NGS-103429	99.13068	86385453
7	Hapmap39793-BTA-96523	99.14608	86421967
7	ARS-BFGL-NGS-92532	99.17271	86485159
7	BTB-01140735	99.18857	86522764
7	BTB-01140584	99.22852	86617526
7	ARS-BFGL-NGS-63600	99.25055	86669785
7	BTB-01941255	99.26587	86706129
7	ARS-BFGL-NGS-112534	99.28181	86743950
7	ARS-BFGL-NGS-59671	99.29617	86778006
7	BTB-00005259	99.3059	86801082
7	ARS-BFGL-NGS-110200	99.31545	86823742
7	ARS-BFGL-NGS-112707	99.33897	86879535
7	BTB-01920914	99.36281	86936090
7	ARS-BFGL-NGS-77695	99.38094	86979103
7	BTB-01848865	99.39319	87008149
7	ARS-BFGL-NGS-70648	99.4265	87087169
7	BTB-01388280	99.49144	87241197
7	BTB-00598959	99.54148	87359924
7	Hapmap44668-BTA-119022	99.62416	87556048
7	BTB-01455682	99.65344	87625506
7	ARS-BFGL-NGS-110483	99.66651	87656497
7	ARS-BFGL-NGS-110503	99.68507	87700528
7	ARS-BFGL-NGS-17291	99.75322	87862183
7	Hapmap50296-BTA-26292	99.76225	87883599
7	Hapmap43945-BTA-80083	99.80563	87986502
7	ARS-BFGL-NGS-101879	99.82581	88034357
7	BTB-00324772	99.85133	88094903
7	Hapmap55194-rs29022931	99.89246	88192479
7	BTB-00324786	99.9244	88268249
7	BTB-00324984	99.93881	88291043
7	BTB-00325087	99.96313	88317307
7	Hapmap55570-rs29021609	99.9931	88349672
7	BTB-00325285	100.0224	88381298
7	BTB-00325407	100.048	88408981
7	ARS-BFGL-NGS-13880	100.1062	88471823
7	ARS-BFGL-NGS-56565	100.1699	88540604
7	BTB-00325544	100.2129	88586997
7	BTB-00325584	100.2517	88628942

7	BTB-01979796	100.3028	88684140	
7	BTB-01380534	100.3287	88712069	
7	BTB-01380432	100.3567	88742329	
7	BTB-01771182	100.3834	88771142	
7	Hapmap54247-rs29017987	100.4362	88828168	
7	ARS-BFGL-NGS-116915	100.6203	89026917	
7	BTB-00325898	100.6719	89082685	
7	Hapmap49097-BTA-25597	100.7243	89139219	
7	BTB-00325951	100.7774	89196559	
7	ARS-BFGL-NGS-118867	100.8192	89241677	
7	Hapmap47742-BTA-80071	100.951	89384116	
7	ARS-BFGL-NGS-84444	100.9729	89450810	
7	ARS-BFGL-NGS-28876	100.9817	89496565	
7	ARS-BFGL-NGS-18844	100.9912	89545945	
7	BTB-01259879	101.0129	89658972	
7	BTB-01259853	101.0228	89710665	
7	BTB-01259803	101.0273	89734142	
7	ARS-BFGL-NGS-116673	101.04	89800236	
7	BTB-01259691	101.0506	89855793	
7	ARS-BFGL-NGS-113270	101.0636	89923165	
7	Hapmap49872-BTA-115580	101.0722	89967934	
7	Hapmap25655-BTA-87375	101.0795	90006186	
7	Hapmap43690-BTA-80156	101.0894	90058029	
7	Hapmap60894-rs29027443	101.0938	90080630	
7	BTB-00326369	101.1102	90166166	
7	BTB-00326280	101.1171	90202205	
7	Hapmap58847-rs29023123	101.3833	90239425	
7	ARS-BFGL-NGS-28191	101.7842	90460692	
7	ARS-BFGL-NGS-17269	101.9394	90562983	
7	ARS-BFGL-NGS-4552	102.0292	90621200	
7	Hapmap39294-BTA-80145	102.0827	90655911	
7	Hapmap51054-BTA-80144	102.2337	90753869	
7	ARS-BFGL-NGS-115653	102.4593	90900133	
7	Hapmap60739-rs29026571	102.4957	90923765	
7	Hapmap47743-BTA-80126	102.5876	90983382	
7	Hapmap59108-rs29018330	102.82	91149831	
7	Hapmap55128-rs29027252	102.82	91261221	
7	Hapmap27428-BTA-151920	102.82	91483570	
7	ARS-BFGL-NGS-118534	102.82	91507089	
7	Hapmap38479-BTA-21119	102.8311	91602893	
7	BTA-21118-no-rs	102.8534	91670145	
7	ARS-BFGL-NGS-62578	102.8613	91693979	
7	Hapmap39636-BTA-21139	102.8723	91726911	
7	Hapmap44450-BTA-21138	102.8843	91762948	
7	ARS-BFGL-NGS-42061	102.9096	91839217	
7	Hapmap49911-BTA-21136	102.9238	91882019	
7	BTA-21135-no-rs	102.9313	91904522	
7	ARS-BFGL-NGS-43868	102.9452	91946384	
7	ARS-BFGL-NGS-111609	102.9547	91974966	
7	ARS-BFGL-NGS-111107	102.9701	92021282	
7	Hapmap33678-BTA-161179	103.0081	92135559	
7	BTA-20841-no-rs	103.0301	92201609	
7	Hapmap46473-BTA-21133	103.0607	92293717	
7	BTA-21132-no-rs	103.0787	92347964	
7	BTA-21128-no-rs	103.1012	92415631	
7	ARS-BFGL-NGS-5139	103.2077	92474466	
7	Hapmap34237-BES3_Contig337_1046		103.4739	92654719
7	Hapmap50982-BTA-48814	103.4969	92719881	
7	Hapmap60226-rs29011503	103.5298	92744435	

7	ARS-BFGL-NGS-80813	103.628	92817550		
7	ARS-BFGL-NGS-60410	103.8389	92974722		
7	ARS-BFGL-NGS-107035	103.8828	93007435		
7	ARS-BFGL-NGS-101886	103.972	93073890		
7	ARS-BFGL-NGS-18900	104.1977	93218452		
7	BTA-19330-no-rs	104.3758	93289032		
7	ARS-BFGL-NGS-64446	104.648	93396872		
7	Hapmap54892-rs29024390	105.2272	93834124		
7	Hapmap52307-rs29009626	105.2657	93886136		
7	Hapmap51706-BTA-25479	105.4276	94105221		
7	Hapmap40829-BTA-88244	105.4954	94196902		
7	Hapmap53565-rs29013278	105.5295	94242965		
7	Hapmap30011-BTA-148009	105.5315	94245759		
7	ARS-USMARC-Parent-DQ786759-rs29026696	105.5417	94259472		
7	ARS-BFGL-NGS-55808	105.6298	94378637		
7	Hapmap43392-BTA-88241	105.6616	94421648		
7	Hapmap31128-BTA-148018	105.7285	94512228		
7	Hapmap47767-BTA-88245	105.7554	94548593		
7	BTA-11267-rs29017030	105.7738	94573436		
7	DIAS-192	105.9294	94783893		
7	ARS-BFGL-NGS-32449	105.9715	94840801		
7	BTA-80207-no-rs	106.0038	94884529		
7	Hapmap43946-BTA-80204	106.067	94974831		
7	Hapmap40145-BTA-80198	106.0925	95027313		
7	Hapmap56856-rs29026678	106.1258	95095555		
7	BTA-28026-no-rs	106.1997	95247190		
7	ARS-BFGL-NGS-117414	106.2198	95288401		
7	ARS-BFGL-NGS-29400	106.2922	95437013		
7	BTA-110434-no-rs	106.3	95554033		
7	ARS-BFGL-NGS-100632	106.3	95577863		
7	ARS-BFGL-NGS-43916	106.3	95600027		
7	Hapmap43404-BTA-93107	106.3	95838186		
7	ARS-BFGL-NGS-55872	106.3077	95904050		
7	Hapmap33036-BTA-149699	106.4407	96053557		
7	Hapmap55378-rs29025271	106.5643	96192503		
7	Hapmap46388-BTA-93108	106.6199	96254960		
7	Hapmap23231-BTA-80214	106.6783	96320591		
7	ARS-BFGL-NGS-109541	106.8518	96541131		
7	ARS-BFGL-NGS-113774	107.0182	96695877		
7	BTA-80221-no-rs	107.0931	96765614		
7	ARS-BFGL-NGS-54745	107.1466	96815359		
7	ARS-BFGL-NGS-15731	107.2764	96936145		
7	Hapmap58161-rs29021192	107.3782	97030883		
7	ARS-BFGL-NGS-1078	107.4226	97072141		
7	Hapmap46534-BTA-80232	107.508	97151592		
7	BTA-108803-no-rs	107.7364	97372656		
7	BTA-108798-no-rs	107.7576	97393157		
7	ARS-BFGL-NGS-64825	107.7963	97430691		
7	ARS-BFGL-NGS-32277	107.8177	97451422		
7	ARS-BFGL-NGS-80413	107.8697	97501859		
7	Hapmap47490-BTA-108189	107.8986	97529872		
7	Hapmap48993-BTA-102947	108.025	97652464		
7	ARS-BFGL-NGS-42106	108.1485	97772240		
7	Hapmap51510-BTA-87075	108.2404	97861341		
7	Hapmap48501-BTA-87072	108.2792	97898940		
7	Hapmap24200-BTA-147598	108.397	98013150		
7	ARS-BFGL-NGS-4612	108.5621	98173299		
7	BTA-88724-no-rs	108.5843	98194828		
7	BTA-88722-no-rs	108.6129	98222585		

7	Hapmap40831-BTA-88715	108.6462	98254815
7	ARS-BFGL-NGS-107507	108.7708	98375640
7	ARS-BFGL-NGS-43901	108.897	98498047
7	ARS-USMARC-670	108.9343	98534197
7	ARS-USMARC-116	108.9675	98566391
7	ARS-BFGL-NGS-69455	109.0385	98635208
7	ARS-BFGL-NGS-85383	109.085	98680293
7	Hapmap52177-rs29018251	109.1322	98726055
7	ARS-BFGL-NGS-22325	109.1643	98757265
7	ARS-BFGL-NGS-35611	109.2076	98799246
7	ARS-BFGL-NGS-4074	109.2298	98820742
7	Hapmap44138-BTA-80281	109.2985	98887313
7	ARS-BFGL-NGS-61744	109.3192	98907404
7	ARS-BFGL-NGS-111429	109.3883	98974456
7	Hapmap24251-BTA-145388	109.4399	99024444
7	BTA-112159-no-rs	109.599	99178748
7	ARS-BFGL-NGS-94147	109.6369	99215474
7	Hapmap38937-BTA-121815	109.77	99344820
7	ARS-BFGL-NGS-65941	109.77	99492904
7	ARS-BFGL-NGS-114490	109.77	99635841
7	Hapmap48087-BTA-80315	109.77	99687614
7	BTA-16856-no-rs	109.77	99776747
7	Hapmap38209-BTA-22552	109.77	99845133
7	ARS-BFGL-NGS-118099	109.795	99919908
7	ARS-BFGL-NGS-42763	109.886	100015468
7	ARS-BFGL-NGS-25853	109.9565	100089527
7	BTB-00327062	110.0866	100226236
7	Hapmap51320-BTA-80300	110.407	100562783
7	ARS-BFGL-NGS-70915	110.5526	100715757
7	ARS-BFGL-NGS-113408	110.5997	100765281
7	ARS-BFGL-NGS-70114	110.6208	100787445
7	BTA-89272-no-rs	110.7017	100872402
7	Hapmap41999-BTA-89266	110.7208	100892547
7	Hapmap39798-BTA-101267	110.9697	101153932
7	Hapmap59124-rs29023522	111.0592	101248064
7	BTA-87872-no-rs	111.1641	101358190
7	BTA-87865-no-rs	111.2812	101481295
7	Hapmap58219-rs29015952	111.3304	101504375
7	ARS-BFGL-NGS-111842	111.4069	101530636
7	ARS-BFGL-NGS-59783	111.4353	101669109
7	ARS-BFGL-NGS-21472	111.4565	101697221
7	ARS-BFGL-NGS-14878	111.5278	101791480
7	Hapmap54978-rs29019536	111.6127	101903824
7	ARS-BFGL-NGS-32871	111.8508	102218650
7	ARS-BFGL-NGS-117669	111.8687	102242251
7	Hapmap38913-BTA-80438	111.9443	102342232
7	Hapmap38264-BTA-96587	111.987	102398654
7	UA-IFASA-6140	112.0431	102472846
7	Hapmap51167-BTA-121817	112.0734	102512960
7	UA-IFASA-5377	112.0907	102535821
7	BTA-80429-no-rs	112.1125	102564643
7	Hapmap31441-BTA-145417	112.1837	102658777
7	Hapmap31054-BTA-112283	112.2731	102777090
7	Hapmap53461-rs29027660	112.3321	102855103
7	ARS-BFGL-NGS-4342	112.358	102889266
7	ARS-BFGL-NGS-228	112.4983	103074895
7	BTA-45431-no-rs	112.5621	103159234
7	Hapmap53420-rs29015255	112.6111	103224029
7	ARS-BFGL-NGS-72471	112.7258	103375625

7	ARS-BFGL-NGS-37726	112.7967	103469483
7	BTA-80441-no-rs	113.0619	103779001
7	Hapmap22951-BTA-163311	113.1286	103989772
7	ARS-BFGL-NGS-25628	113.1762	104031906
7	ARS-BFGL-NGS-118583	113.222	104072416
7	ARS-BFGL-NGS-69739	113.2444	104092252
7	ARS-BFGL-NGS-103483	113.2901	104132699
7	Hapmap43948-BTA-80452	113.3502	104185842
7	BTA-85910-no-rs	113.4316	104257907
7	Hapmap48479-BTA-80447	113.459	104282149
7	Hapmap50111-BTA-80468	113.5741	104510816
7	BTA-10635-rs29016187	114.2778	104833780
7	ARS-BFGL-NGS-25619	114.4191	104898599
7	ARS-BFGL-NGS-32477	114.4734	104923528
7	BTA-63505-no-rs	114.8847	105112282
7	ARS-BFGL-NGS-83670	114.9515	105142920
7	Hapmap53417-rs29014877	115.0131	105171211
7	BTB-00956573	115.1065	105214075
7	ARS-BFGL-NGS-15833	115.2499	105279874
7	BTB-00956439	115.3045	105304904
7	ARS-BFGL-NGS-80165	115.362	105331292
7	ARS-BFGL-NGS-40496	115.3733	105336509
7	ARS-BFGL-NGS-4855	115.4794	105385203
7	BTB-00956013	115.5381	105412109
7	BTB-00955972	115.5958	105438587
7	ARS-BFGL-NGS-25018	115.6313	105465008
7	BTA-63485-no-rs	115.7097	105537981
7	ARS-BFGL-NGS-114863	115.734	105560604
7	Hapmap53026-rs29010461	115.7577	105582677
7	BTB-00955523	115.799	105621232
7	Hapmap50427-BTA-63481	115.8381	105657580
7	BTA-63478-no-rs	115.873	105690139
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7	ARS-BFGL-NGS-73461	116.1395	105938389
7	BTA-63470-no-rs	116.1666	105963598
7	ARS-BFGL-NGS-104100	116.1924	105987605
7	Hapmap9011-BTA-63465	116.2186	106012026
7	BTB-00955215	116.2529	106043966
7	BTB-01671559	116.3046	106092176
7	Hapmap54690-rs29024551	116.3468	106131431
7	Hapmap49389-BTA-96192	116.3892	106170981
7	BTB-01472249	116.4626	106242916
7	BTB-02081792	116.4891	106274908
7	BTB-01772837	116.5435	106340772
7	BTB-01474298	116.5912	106398519
7	BTB-01474104	116.611	106422549
7	Hapmap33224-BTA-150799	116.6521	106472284
7	Hapmap38865-BTA-96298	116.6785	106504216
7	ARS-BFGL-NGS-59803	116.7029	106533744
7	BTB-01950449	116.7323	106569431
7	BTB-00328499	116.7676	106612109
7	ARS-BFGL-NGS-92530	116.8265	106683467
7	BTB-00328340	116.8651	106730109
7	BTB-00329153	116.9537	106837378
7	BTB-00329036	117.0279	106927241
7	BTB-00329024	117.0861	106953907
7	Hapmap43691-BTA-80500	117.2057	106984999
7	BTA-121819-no-rs	117.5537	107075483
7	ARS-BFGL-NGS-5197	117.7085	107115712



7	ARS-BFGL-NGS-109915	117.7862	107153472	
7	BTB-00329283	117.9657	107247666	
7	BTA-17474-no-rs	118.0744	107304729	
7	BTB-01805931	118.1415	107339958	
7	BTB-00479682	118.3025	107424447	
7	BTB-00479671	118.3567	107452906	
7	BTB-00479633	118.39	107474391	
7	BTB-00479595	118.39	107500952	
7	BTA-106359-no-rs	118.39	107527276	
7	BTA-106354-no-rs	118.39	107601981	
7	BTB-00479495	118.39	107645565	
7	Hapmap41732-BTA-102878	118.39	107690269	
7	BTB-01548453	118.39	107735569	
7	BTB-01548383	118.39	107812891	
7	BTB-01553536	118.39	107837688	
7	Hapmap31478-BTA-153270	118.39	107869303	
7	BTB-01553821	118.39	107940320	
7	Hapmap51837-BTA-49470	118.39	108006295	
7	BTB-00114337	118.39	108061850	
7	Hapmap35710-SCAFFOLD255050_10929	118.39	108096309	108096309
7	ARS-BFGL-NGS-114645	118.39	108143128	
7	BTA-49481-no-rs	118.39	108171368	
7	Hapmap51838-BTA-49482	118.39	108205624	
7	ARS-BFGL-NGS-67383	118.39	108307729	
7	BTB-00115134	118.39	108325851	
7	ARS-BFGL-NGS-82310	118.4	108408892	
7	BTB-00331006	118.4185	108433154	
7	Hapmap42328-BTA-80578	118.4354	108455370	
7	Hapmap48901-BTA-80577	118.4527	108478047	
7	ARS-BFGL-NGS-70170	118.4838	108518821	
7	BTA-118266-no-rs	118.5088	108551598	
7	BTB-01771640	118.5268	108575314	
7	Hapmap41452-BTA-120126	118.5482	108603408	
7	Hapmap49763-BTA-80570	118.6105	108685133	
7	Hapmap40814-BTA-80565	118.6646	108756176	
7	ARS-BFGL-NGS-12657	118.7115	108817785	
7	Hapmap57373-rs29019418	118.7445	108861104	
7	BTB-00330657	118.7722	108897467	
7	ARS-BFGL-NGS-116523	118.8062	108941982	
7	Hapmap41644-BTA-80557	118.8231	108964273	
7	BTA-88511-no-rs	118.8446	108992486	
7	ARS-BFGL-NGS-107132	118.8914	109076621	
7	BTB-00330379	118.9039	109106555	
7	ARS-BFGL-NGS-109842	118.9179	109139835	
7	BTA-80552-no-rs	118.9324	109176557	
7	ARS-BFGL-NGS-43318	118.9428	109210429	
7	Hapmap39686-BTA-80533	118.9604	109268080	
7	BTB-00330149	118.9683	109293823	
7	ARS-BFGL-NGS-31168	118.9993	109395242	
7	Hapmap50112-BTA-80530	119.2271	109522610	
7	BTB-01842929	119.3996	109595866	
7	ARS-BFGL-NGS-15475	119.4893	109633993	
7	Hapmap46731-BTA-80527	119.5614	109664621	
7	BTB-01922066	119.6279	109692862	
7	Hapmap48700-BTA-26199	119.6851	109717145	
7	ARS-BFGL-NGS-21760	119.7667	109751820	
7	ARS-BFGL-NGS-19041	119.8142	109810378	
7	ARS-BFGL-NGS-81660	119.8398	109890025	
7	Hapmap45685-BTA-80525	119.8654	109970008	

7	BTB-00329502	119.8724	109991711	
7	Hapmap44412-BTA-80524	119.8957	110064329	
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7	ARS-BFGL-NGS-103199	119.9582	110259397	
7	BTB-01965000	119.965	110280728	
7	BTA-118421-no-rs	119.9816	110332484	
7	Hapmap53962-rs29017056	120.0026	110397885	
7	Hapmap3177-BTA-16454	120.0104	110422232	
7	ARS-BFGL-NGS-41766	120.0701	110608386	
7	ARS-BFGL-NGS-55585	120.0836	110650631	
7	BTB-01240109	120.0902	110671189	
7	BTA-116241-no-rs	120.1022	110708620	
7	BTB-01239861	120.1042	110714665	
7	ARS-BFGL-NGS-116546	120.1175	110756252	
7	BTA-122523-no-rs	120.1286	110791024	
7	ARS-BFGL-NGS-62253	120.1458	110844583	
7	ARS-BFGL-NGS-99091	120.1567	110878428	
7	ARS-BFGL-NGS-103547	120.1662	110908263	
7	ARS-BFGL-NGS-33671	120.1676	110912470	
7	Hapmap26145-BTA-145462	120.1834	110961714	
7	Hapmap51497-BTA-80591	120.2299	111106929	
7	Hapmap36286-SCAFFOLD260285_24265	120.2473		111161115
7	ARS-BFGL-NGS-16396	120.2713	111236140	
7	Hapmap53611-rs29011370	120.279	111259941	
7	BTA-80626-no-rs	120.2892	111291704	
7	ARS-BFGL-NGS-78863	120.3031	111335110	
7	BTB-00080311	120.3185	111383306	
7	UA-IFASA-3827	120.3322	111426059	
7	BTB-00080420	120.3464	111470224	
7	ARS-BFGL-NGS-115652	120.369	111540877	
7	BTA-80628-no-rs	120.3768	111565122	
7	Hapmap45215-BTA-80627	120.3903	111607076	
7	BTB-01893932	120.3977	111630294	
7	ARS-BFGL-NGS-84234	120.4058	111655507	
7	ARS-BFGL-NGS-43521	120.4152	111684918	
7	BTA-112703-no-rs	120.4234	111710279	
7	BTA-49168-no-rs	120.4288	111727311	
7	ARS-BFGL-NGS-55124	120.4381	111756307	
7	BTB-00080644	120.4464	111782120	
7	ARS-BFGL-NGS-9529	120.454	111805748	
7	BTB-00332855	120.4698	111842867	
7	ARS-BFGL-NGS-62329	120.4846	111870494	
7	ARS-BFGL-NGS-67072	120.4961	111891998	
7	Hapmap58496-rs29017214	120.5174	111931788	
7	ARS-BFGL-NGS-43294	120.5396	111973235	
7	BTA-80637-no-rs	120.5581	112007880	
7	ARS-BFGL-NGS-40535	120.5973	112081115	
7	BTB-00332385	120.6103	112105388	
7	UA-IFASA-7211	120.6242	112131452	
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7	BTB-00332282	120.6461	112172303	
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7	BTA-09064-rs29025231	120.6961	112265796	
7	BTB-01550935	120.7247	112319174	
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7	BTB-01149046	120.7642	112393056	
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7	ARS-BFGL-NGS-22067	120.859	112570170	

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8	ARS-BFGL-NGS-71059	0	571625		
8	ARS-BFGL-NGS-26511	0	597716		
8	ARS-BFGL-NGS-90219	0.1128623	649400		
8	ARS-BFGL-NGS-79659	0.1794574	679513		
8	ARS-BFGL-NGS-5096	0.2527244	712643		
8	ARS-BFGL-NGS-10647	0.3616652	761904		
8	Hapmap40373-BTA-82910	0.4578435	805394		
8	ARS-BFGL-NGS-38053	0.5098004	828888		
8	ARS-BFGL-NGS-27673	0.5552337	849432		
8	ARS-BFGL-NGS-118269	0.6389589	887291		
8	Hapmap52430-ss46526300	0.7639663	943817		
8	ARS-BFGL-NGS-3716	0.9191761	1014000		
8	Hapmap55644-rs29017545	1.068705	1081614		
8	Hapmap57430-rs29016504	1.230297	1154683		
8	BTA-88882-no-rs	1.349592	1208626		
8	Hapmap30273-BTA-148272	1.433364	1246506		
8	ARS-BFGL-NGS-10448	1.564537	1305820		
8	ARS-BFGL-NGS-7009	1.786468	1406173		
8	ARS-BFGL-NGS-14476	2.038809	1520277		
8	ARS-USMARC-Parent-DQ916058-rs29016146	2.114949	1554706		
8	Hapmap41137-BTA-10594	2.115134	1554790		
8	BTA-111263-no-rs	2.148512	1569883		
8	Hapmap42066-BTA-111271	2.224	1604017		
8	ARS-BFGL-NGS-112540	2.432677	1698377		
8	ARS-BFGL-NGS-61974	2.536335	1745249		
8	ARS-BFGL-NGS-61390	2.58647	1767919		
8	Hapmap51143-BTA-111274	2.645134	1794446		
8	ARS-BFGL-NGS-2275	2.820488	1873738		
8	Hapmap34297-BES11_Contig407_907	2.980865	1946257		
8	ARS-BFGL-NGS-93070	3.175459	2034249		
8	ARS-BFGL-NGS-111379	4.102386	2453388		
8	ARS-BFGL-NGS-118699	4.518938	2641745		
8	Hapmap24890-BTA-24031	4.563685	2661979		
8	ARS-BFGL-NGS-103299	4.628422	2691252		
8	Hapmap39687-BTA-80991	5.413975	3046464		
8	Hapmap36679-SCAFFOLD251980_4691	5.882598	3258367		
8	ARS-BFGL-NGS-37168	6.046804	3323312		
8	ARS-BFGL-NGS-113635	6.248668	3397003		
8	ARS-BFGL-NGS-111461	6.534484	3501341		
8	Hapmap46330-BTA-95948	6.622424	3533444		
8	ARS-BFGL-NGS-113904	6.64	3617253		
8	BTB-01757448	6.772455	3703339		
8	BTA-87200-no-rs	7.005834	3771879		
8	BTB-01276763	7.096186	3798414		
8	Hapmap3181-BTA-16477	7.20469	3830280		
8	BTB-01276600	7.303821	3859393		
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8	BTB-01634455	9.407479	4477531
8	BTB-01990279	9.483809	4503268
8	BTA-92628-no-rs	9.612785	4546756
8	BTA-10665-rs29016217	9.923192	4651419
8	Hapmap48947-BTA-92631	10.00687	4679635
8	Hapmap53079-rs29025491	10.09288	4708633
8	Hapmap49521-BTA-19574	10.55947	4865961
8	BTB-01635042	10.62936	4889524
8	Hapmap45337-BTA-109277	10.82397	4955143
8	ARS-BFGL-NGS-68739	10.92243	4988343
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8	Hapmap48586-BTA-106838	11.06672	5036995
8	ARS-BFGL-NGS-112672	11.14917	5064795
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8	ARS-BFGL-NGS-1180	11.29483	5113909
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8	ARS-BFGL-NGS-116547	11.48119	5176744
8	Hapmap39592-BTA-81433	11.97989	5344895
8	BTA-81446-no-rs	12.11637	5390916
8	BTA-81490-no-rs	12.25364	5437200
8	Hapmap44292-BTA-81495	12.32688	5461893
8	ARS-BFGL-NGS-4062	12.41188	5490554
8	BTA-81513-no-rs	12.51755	5526186
8	BTB-00334028	12.59375	5551878
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8	ARS-BFGL-NGS-114692	13.3061	5792067
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8	ARS-BFGL-NGS-46194	13.87152	5982716
8	BTB-00334512	13.94307	6006842
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8	BTA-81831-no-rs	14.52054	6201599
8	Hapmap44053-BTA-28733	14.71104	6282823
8	Hapmap43064-BTA-81873	14.7788	6311710
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8	BTA-120282-no-rs	14.92226	6372878
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8	Hapmap43365-BTA-81894	15.21727	6498656
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8	BTB-00335242	16.01559	6630370
8	Hapmap27753-BTA-145537	16.09891	6662040
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8	ARS-BFGL-NGS-57214	17.07322	7032385
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8	BTA-81086-no-rs	17.51324	7199643
8	ARS-BFGL-NGS-113867	17.87465	7337016
8	ARS-BFGL-NGS-36797	17.99655	7383352
8	ARS-BFGL-NGS-20843	18.07626	7413650
8	ARS-BFGL-NGS-29411	18.18517	7455047
8	ARS-BFGL-NGS-38391	18.29089	7495233
8	BTA-121823-no-rs	18.63838	7627319
8	ARS-BFGL-NGS-72833	18.78909	7684602
8	BTA-22310-no-rs	18.99062	7761207

8	ARS-BFGL-NGS-117583	19.39071	7913287
8	BTA-07949-rs29027610	19.49906	7954469
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8	ARS-BFGL-NGS-58183	19.64753	8010905
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8	Hapmap60513-rs29011988	19.83662	8082781
8	ARS-BFGL-NGS-37391	19.90624	8109244
8	ARS-BFGL-NGS-68189	20.00113	8145310
8	ARS-BFGL-NGS-33535	20.1953	8219119
8	Hapmap50135-BTA-86714	20.43487	8310182
8	ARS-BFGL-NGS-59383	20.51493	8340612
8	ARS-BFGL-NGS-10728	20.58095	8365706
8	ARS-BFGL-NGS-1858	20.84987	8467926
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8	Hapmap45088-BTA-118804	21.42895	8688039
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8	ARS-BFGL-NGS-72498	22.22258	9156221
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8	BTA-44181-no-rs	22.4021	9636331
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8	ARS-BFGL-NGS-17642	23.02716	11307970
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8	Hapmap26798-BTA-82382	23.06087	11398105
8	BTA-82896-no-rs	23.07217	11428336
8	ARS-BFGL-NGS-31016	23.09081	11478184
8	ARS-BFGL-NGS-111840	23.09912	11500414
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8	BTA-120203-no-rs	23.53188	12657766
8	Hapmap51499-BTA-82919	23.55347	12715506
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8	Hapmap42694-BTA-82927	25.10536	13022351
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8	BTA-16324-no-rs	26.08773	14571777
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8	Hapmap32663-BTA-30828	26.19	14760716
8	BTB-01048256	26.19	14829896
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8	BTB-01533287	26.45203	15773921
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8	Hapmap51695-BTA-16700	26.66495	15893813
8	BTB-01905915	26.74131	15936813
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8	BTB-00337582	29.52921	17506641
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8	Hapmap50115-BTA-80812	30.65298	18139420
8	Hapmap54672-rs29016823	30.88957	18272635
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8	BTB-01098343	31.36736	18514280
8	BTB-01098367	31.42466	18540444
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8	BTA-23436-no-rs	32.11597	18856112
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8	Hapmap42381-BTA-98014	33.55191	19511803
8	BTB-01495172	33.67062	19566012
8	Hapmap24270-BTA-54317	33.82472	19636378
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8	BTA-14517-rs29023279	34.20731	19811075
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8	Hapmap27472-BTA-29446	34.40469	19941015
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8	Hapmap50647-BTA-29448	34.48331	20018829
8	Hapmap49111-BTA-29451	34.53285	20067861
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8	ARS-BFGL-NGS-110622	34.86036	20392000
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8	BTA-17775-no-rs	36.44207	21073477
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8	BTB-01286589	36.67053	21161582
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8	ARS-BFGL-NGS-2625	37.10449	21328935
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8	BTB-01431114	37.45159	21525831
8	BTB-01881993	37.54817	21574564
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8	BTA-115701-no-rs	37.94671	21724821
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8	ARS-BFGL-NGS-34771	38.25	21943761
8	ARS-BFGL-NGS-39667	38.25785	22028440
8	Hapmap50189-BTA-103065	38.36852	22084349
8	BTA-80863-no-rs	38.46085	22130988
8	BTA-80861-no-rs	38.5186	22160158
8	Hapmap51321-BTA-80853	38.62859	22215719
8	ARS-BFGL-NGS-23270	38.65676	22229950
8	ARS-BFGL-NGS-112772	38.78148	22292954
8	ARS-BFGL-NGS-12326	38.83497	22319971
8	Hapmap41606-BTA-64576	38.91891	22362375
8	BTA-109900-no-rs	39.15141	22479821
8	Hapmap50207-BTA-108741	39.36572	22548179
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8	ARS-BFGL-NGS-30858	41.18435	23185471
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8	Hapmap49221-BTA-55632	41.66357	23554326
8	BTB-00863238	41.70952	23589695
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8	Hapmap52895-rs29012710	42.29924	24043607
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8	ARS-BFGL-NGS-71395	43.16131	24707157
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8	BTB-01052583	43.37273	24869885
8	BTA-120636-no-rs	43.48607	24957126
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8	ARS-BFGL-NGS-5492	43.58798	25035564
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8	ARS-BFGL-NGS-35115	43.74	25223350
8	BTB-01710423	43.74	25253083
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8	ARS-BFGL-NGS-106204	43.74	25337315
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8	ARS-BFGL-NGS-27512	43.74	25404712
8	ARS-BFGL-NGS-24524	43.74	25435054
8	ARS-BFGL-NGS-110838	43.74569	25499941
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8	Hapmap58082-rs29010933	44.28152	25773928
8	BTB-01051794	44.3769	25822696
8	Hapmap49881-BTA-120681	44.43183	25850783
8	BTA-27527-no-rs	44.48644	25878710
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8	ARS-BFGL-NGS-50534	44.71897	25997609
8	BTB-01051741	44.84494	26062021
8	ARS-BFGL-NGS-24959	44.89044	26085287
8	Hapmap47508-BTA-113961	44.96061	26121169

8	ARS-BFGL-NGS-25826	45.00948	26146155	
8	ARS-BFGL-NGS-28432	45.19638	26241724	
8	BTB-01108991	45.27892	26283932	
8	Hapmap51430-BTA-29826	45.36998	26330491	
8	BTB-01109106	45.59207	26444056	
8	ARS-BFGL-NGS-43136	45.63946	26468289	
8	ARS-BFGL-NGS-28001	45.72024	26509592	
8	ARS-BFGL-NGS-107669	45.83822	26569920	
8	Hapmap40707-BTA-29831	45.91636	26609877	
8	BTA-29833-no-rs	45.96656	26635544	
8	ARS-BFGL-NGS-68885	46.02512	26665489	
8	BTB-01109448	46.09897	26703251	
8	BTB-01109461	46.15053	26729617	
8	BTB-01109487	46.28153	26796598	
8	Hapmap38065-BTA-29835	46.36642	26840010	
8	ARS-BFGL-NGS-119870	46.41053	26862562	
8	BTB-01109703	46.42	26899147	
8	BTB-01962635	46.42	26932071	
8	Hapmap24639-BTA-113261	46.42	26971008	
8	BTB-01684239	46.42	27009405	
8	BTA-80886-no-rs	46.42	27067009	
8	BTB-02079306	46.42	27143957	
8	BTA-93638-no-rs	46.42	27198294	
8	UA-IFASA-6308	46.42	27256568	
8	ARS-BFGL-NGS-6044	46.42	27276610	
8	BTB-01270974	46.42	27363700	
8	Hapmap50602-BTA-15967	46.42	27433310	
8	BTB-01271101	46.42	27519327	
8	BTB-01271264	46.42	27557552	
8	Hapmap49891-BTA-15961	46.5485	27596472	
8	BTB-01271294	46.74316	27630256	
8	ARS-BFGL-NGS-23499	47.20816	27710954	
8	BTB-01271445	47.27675	27749930	
8	BTB-01536113	47.36586	27831038	
8	ARS-BFGL-NGS-104947	47.41209	27873118	
8	BTB-01167198	47.45098	27908523	
8	BTA-102621-no-rs	47.52508	27975966	
8	ARS-BFGL-NGS-41406	47.61533	28058435	
8	BTA-102639-no-rs	47.65215	28094157	
8	ARS-BFGL-NGS-63478	47.69349	28134263	
8	ARS-BFGL-NGS-96834	47.73859	28178007	
8	ARS-BFGL-NGS-19596	47.90344	28300644	
8	ARS-BFGL-NGS-81374	47.93866	28320753	
8	ARS-BFGL-NGS-83209	48.04978	28384201	
8	BTB-01167772	48.14032	28435895	
8	ARS-BFGL-NGS-114722	48.18982	28464160	
8	ARS-BFGL-NGS-117504	48.35652	28559343	
8	BTB-00339941	48.40628	28587760	
8	BTB-00339923	48.45909	28617910	
8	Hapmap24205-BTA-154013	48.60991	28704024	
8	Hapmap52403-rs29025915	48.64937	28726561	
8	Hapmap59091-rs29024524	48.77069	28795833	
8	ARS-USMARC-Parent-DQ650636-rs29024525	48.77668	28799249	
8	BTA-80907-no-rs	48.83377	28831847	
8	Hapmap39142-BTA-80905	48.9011	28870291	
8	BTB-01980927	48.96729	28908083	
8	BTB-01950705	49.04751	28953890	
8	BTA-30073-no-rs	49.10403	28986164	
8	BTB-00339768	49.16911	29023325	

8	BTA-80900-no-rs	49.24884	29068846	
8	ARS-BFGL-NGS-96214	49.47691	29199071	
8	ARS-BFGL-NGS-109355	49.79266	29379357	
8	Hapmap44913-BTA-80891	49.87297	29425215	
8	Hapmap35664-SCAFFOLD116678_816		50.16509	29592011
8	Hapmap52006-BTA-77999	50.22978	29628947	
8	ARS-BFGL-NGS-34586	50.3745	29711579	
8	UA-IFASA-5756	50.41984	29737467	
8	ARS-BFGL-NGS-23700	50.47255	29767566	
8	BTA-77988-no-rs	50.55422	29814195	
8	BTB-00285741	50.58401	29831209	
8	Hapmap48162-BTA-10367	50.67876	29885309	
8	BTB-00285604	50.73131	29915312	
8	BTB-00285566	50.78279	29944709	
8	BTB-00285653	50.94409	30036807	
8	ARS-BFGL-NGS-116276	51.03398	30088133	
8	ARS-BFGL-NGS-16216	51.10649	30129534	
8	BTB-00285454	51.2104	30188865	
8	BTB-00285418	51.32728	30235048	
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8	Hapmap55505-rs29012932	51.49051	30284829	
8	BTB-02040446	51.60788	30320626	
8	BTB-00285327	51.76766	30369356	
8	BTB-00285279	51.89319	30407640	
8	ARS-BFGL-NGS-68597	52.00707	30442371	
8	BTB-00285141	52.12	30479957	
8	ARS-BFGL-NGS-111754	52.12	30557501	
8	ARS-BFGL-NGS-116341	52.12	30586021	
8	ARS-BFGL-NGS-81244	52.12	30618400	
8	BTB-01382934	52.2083	30739625	
8	ARS-BFGL-NGS-27324	52.23645	30772014	
8	ARS-BFGL-NGS-70430	52.26914	30809624	
8	ARS-BFGL-NGS-53683	52.36238	30916900	
8	BTB-01677851	52.38767	30946000	
8	Hapmap33212-BTA-145669	52.5423	31123907	
8	ARS-BFGL-NGS-99514	52.56057	31144925	
8	Hapmap58885-rs29013453	52.66013	31265066	
8	BTB-00340006	52.69411	31341129	
8	ARS-BFGL-NGS-39319	52.72455	31409233	
8	Hapmap26988-BTA-150702	52.77587	31498732	
8	BTB-01914602	52.78895	31518749	
8	BTB-01469421	52.83302	31586227	
8	ARS-BFGL-NGS-102903	52.92167	31721931	
8	ARS-BFGL-NGS-101576	52.95773	31777151	
8	BTB-01978920	52.97389	31801889	
8	BTA-123382-no-rs	52.98	31871995	
8	BTA-81018-no-rs	52.98	31887048	
8	Hapmap54720-rs29023017	52.98828	31948876	
8	Hapmap43172-BTA-120051	53.02013	32002730	
8	BTA-120053-no-rs	53.04598	32046441	
8	Hapmap55372-rs29027535	53.07203	32090481	
8	BTB-00341953	53.08938	32119814	
8	ARS-BFGL-NGS-96184	53.11196	32157989	
8	ARS-BFGL-NGS-46364	53.13035	32189084	
8	BTA-106971-no-rs	53.14375	32211746	
8	BTA-36183-no-rs	53.18628	32283646	
8	Hapmap55482-rs29018412	53.20791	32320213	
8	BTB-00588361	53.23515	32366271	
8	BTB-00258020	53.28489	32450361	

8	BTB-00258161	53.4654	32611423
8	BTA-76377-no-rs	53.67284	32706175
8	ARS-BFGL-NGS-3036	53.70959	32749041
8	BTA-76384-no-rs	53.83493	32895255
8	ARS-BFGL-NGS-5314	53.86602	32931536
8	BTB-01709624	53.97617	33060034
8	BTA-93576-no-rs	54.02094	33112255
8	BTA-99986-no-rs	54.07486	33175156
8	ARS-BFGL-NGS-108956	54.08936	33216307
8	ARS-BFGL-NGS-95579	54.09972	33255205
8	BTA-94339-no-rs	54.10914	33290613
8	ARS-BFGL-NGS-25396	54.12675	33356720
8	ARS-BFGL-NGS-1933	54.20981	33668705
8	BTB-01156318	54.21761	33697998
8	Hapmap23351-BTA-123397	54.22485	33725198
8	Hapmap42794-BTA-108143	54.23	33747904
8	BTB-01619293	54.23	33771490
8	BTA-28927-no-rs	54.23	33805180
8	Hapmap42882-BTA-24654	54.23	33875423
8	BTB-01332340	54.23	33937052
8	BTB-01332332	54.23	33964937
8	BTB-00255048	54.23	34242903
8	ARS-BFGL-NGS-97573	54.23	34281082
8	BTB-01184997	54.23	34367019
8	Hapmap55107-rs29014632	54.23	34470329
8	BTA-106726-no-rs	54.23	34511209
8	ARS-BFGL-NGS-40453	54.23	34536574
8	BTB-01929442	54.23	34560427
8	BTB-01493339	54.23538	34584476
8	BTB-01493310	54.24531	34610579
8	BTB-01185113	54.27152	34679524
8	BTB-01493256	54.28494	34714805
8	BTB-01356324	54.32791	34827816
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8	BTB-01493052	54.34495	34872644
8	BTB-01934493	54.35466	34898163
8	Hapmap53908-rs29021644	54.36331	34920926
8	BTB-01356443	54.37346	34947623
8	BTA-27873-no-rs	54.40544	35031727
8	Hapmap51710-BTA-27877	54.41732	35062961
8	BTA-116048-no-rs	54.4444	35134183
8	ARS-BFGL-NGS-16718	54.47555	35216112
8	Hapmap40204-BTA-116037	54.49533	35268154
8	ARS-BFGL-NGS-37907	54.50942	35305194
8	Hapmap41758-BTA-116042	54.52232	35339110
8	ARS-BFGL-NGS-53667	54.53437	35370804
8	BTB-02056135	54.54489	35398490
8	Hapmap51398-BTA-116046	54.57231	35464882
8	BTB-02056717	54.92564	35544964
8	BTB-00685388	54.95643	35568857
8	BTB-00685136	55.08916	35671830
8	BTB-00685114	55.13015	35703640
8	BTB-00685105	55.16899	35733768
8	Hapmap51410-BTA-122762	55.22081	35773975
8	BTB-00340142	55.41	35972079
8	BTB-00340296	55.41	36159723
8	Hapmap50787-BTA-80934	55.41	36191988
8	ARS-BFGL-NGS-104544	55.41	36293755
8	ARS-BFGL-NGS-52657	55.41	36443492

8	BTA-80939-no-rs	55.41	36489881	
8	BTA-80941-no-rs	55.41	36641920	
8	BTA-80950-no-rs	55.41	36666306	
8	BTA-80953-no-rs	55.41	36687139	
8	ARS-BFGL-NGS-1205	55.41	36715387	
8	Hapmap31882-BTA-80969	55.41	36781224	
8	ARS-BFGL-NGS-118690	55.41	36852207	
8	BTA-80981-no-rs	55.41	36896409	
8	BTB-00340616	55.41	36984776	
8	BTA-80984-no-rs	55.41	37015854	
8	Hapmap48192-BTA-114766	55.41	37049707	
8	BTB-01229085	55.41	37081128	
8	BTA-114769-no-rs	55.41	37109268	
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8	Hapmap26196-BTA-158728	55.41	37158190	
8	BTB-01762552	55.41	37192348	
8	BTB-00340836	55.41	37230536	
8	BTB-00340869	55.41	37277153	
8	BTB-00675470	55.41	37338560	
8	Hapmap43848-BTA-40752	55.41	37403028	
8	Hapmap58112-rs29014429	55.41	37451828	
8	Hapmap49068-BTA-17115	55.41	37508875	
8	BTB-00342370	55.45592	37585486	
8	Hapmap50116-BTA-81046	55.48876	37604683	
8	BTA-81038-no-rs	55.53434	37631330	
8	BTB-00342185	55.66253	37706259	
8	BTA-08698-rs29022255	55.73919	37751069	
8	Hapmap44487-BTA-81030	55.8329	37805845	
8	ARS-BFGL-NGS-23521	55.8697	37827354	
8	ARS-BFGL-NGS-14923	55.95059	37874636	
8	ARS-BFGL-NGS-58336	56.01065	37909744	
8	ARS-BFGL-NGS-24088	56.05883	37937905	
8	ARS-BFGL-NGS-68744	56.14073	37985778	
8	BTB-01495564	56.21735	38030562	
8	BTA-98164-no-rs	56.3091	38084197	
8	BTB-00342533	56.51394	38203926	
8	BTA-81061-no-rs	56.58299	38244290	
8	ARS-BFGL-NGS-63218	56.91167	38436411	
8	BTB-00342600	56.97367	38476077	
8	BTA-81064-no-rs	57.00167	38518604	
8	Hapmap35668-SCAFFOLD40157_4581	57.05031	38592459	
8	Hapmap49060-BTA-122180	57.26956	38925412	
8	Hapmap44323-BTA-96987	57.30347	38976903	
8	Hapmap54347-rs29011524	57.3384	39029952	
8	BTA-96984-no-rs	57.36582	39071586	
8	Hapmap59984-rs29026051	57.38976	39107936	
8	BTA-94981-no-rs	57.40917	39137417	
8	Hapmap46895-BTA-94979	57.42463	39160899	
8	ARS-BFGL-NGS-6064	57.49413	39266437	
8	Hapmap51356-BTA-94975	57.52058	39306605	
8	ARS-BFGL-NGS-3675	57.63177	39475460	
8	ARS-BFGL-NGS-5793	57.67558	39541982	
8	Hapmap46544-BTA-94974	57.70197	39582056	
8	Hapmap42737-BTA-94970	57.7588	39668361	
8	Hapmap48952-BTA-94977	57.80953	39745401	
8	BTA-94972-no-rs	57.84094	39793100	
8	Hapmap55166-rs29016846	57.86964	39836688	
8	Hapmap32013-BTA-104628	57.8939	39873520	
8	BTA-81053-no-rs	57.9185	39910889	

8	Hapmap41646-BTA-81057	57.93243	39932028	
8	ARS-BFGL-NGS-86036	57.95577	39967479	
8	ARS-BFGL-NGS-54331	57.97401	39995181	
8	ARS-BFGL-NGS-27933	58.01086	40020068	
8	BTA-81058-no-rs	58.14515	40088787	
8	ARS-BFGL-NGS-6430	58.28266	40159162	
8	ARS-BFGL-NGS-82111	58.46819	40254102	
8	Hapmap52197-rs29019858	58.52307	40282188	
8	ARS-BFGL-NGS-63764	58.57108	40306760	
8	Hapmap27456-BTA-158380	58.73327	40389762	
8	ARS-BFGL-NGS-8821	58.79737	40422559	
8	Hapmap36155-SCAFFOLD226597_1989		58.89095	40470452
8	Hapmap59547-rs29026130	59.02322	40538141	
8	Hapmap33220-BTA-149236	59.08821	40585048	
8	Hapmap33243-BTA-158375	59.09976	40610167	
8	ARS-BFGL-NGS-91112	59.13275	40681934	
8	ARS-BFGL-NGS-102255	59.16303	40747782	
8	ARS-BFGL-NGS-14536	59.22182	40775647	
8	Hapmap42331-BTA-81118	59.32371	40800617	
8	BTB-01669383	59.82267	40921256	
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8	Hapmap44573-BTA-81115	60.24155	41013012	
8	BTB-00345076	60.42052	41052217	
8	BTB-01715942	60.62098	41096123	
8	BTB-00342741	60.94759	41278368	
8	BTB-00342876	60.95652	41336529	
8	BTB-01367207	60.97695	41469535	
8	BTB-01367197	60.98035	41491687	
8	BTB-01367163	60.98584	41527418	
8	Hapmap40503-BTA-18766	61.00043	41622437	
8	ARS-BFGL-NGS-30070	61.00631	41660709	
8	BTA-80993-no-rs	61.01608	41724336	
8	BTA-20225-no-rs	61.02272	41767556	
8	Hapmap41645-BTA-80995	61.04049	41883274	
8	ARS-BFGL-NGS-111208	61.05209	41958832	
8	BTA-09990-rs29026146	61.05751	41994073	
8	ARS-BFGL-NGS-26964	61.06126	42018516	
8	BTB-00341155	61.0697	42073454	
8	ARS-BFGL-NGS-15063	61.07388	42100669	
8	ARS-BFGL-NGS-61239	61.07722	42122467	
8	ARS-BFGL-NGS-113433	61.10019	42271971	
8	ARS-BFGL-NGS-12833	61.11114	42343307	
8	Hapmap30030-BTA-153524	61.11607	42375411	
8	BTB-01581546	61.1207	42405548	
8	BTA-105579-no-rs	61.12537	42435980	
8	Hapmap47481-BTA-105587	61.12921	42460982	
8	BTB-01581660	61.13316	42486699	
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8	Hapmap42083-BTA-117345	61.1457	42568356	
8	ARS-BFGL-NGS-77068	61.1556	42632804	
8	BTB-01246512	61.15871	42653053	
8	ARS-BFGL-NGS-43453	61.16542	42696770	
8	ARS-BFGL-NGS-90610	61.17066	42730881	
8	BTB-01246594	61.17754	42775660	
8	BTB-01246669	61.1829	42810567	
8	BTB-01246690	61.18678	42835856	
8	BTB-01044663	61.19091	42862763	
8	Hapmap48283-BTA-30285	61.20734	42969739	
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8	BTB-01044512	61.218	43039113	
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8	ARS-BFGL-NGS-55343	61.27834	43432019	
8	BTB-01251717	61.28353	43465813	
8	ARS-BFGL-NGS-86183	61.28835	43497231	
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8	Hapmap40627-BTA-100509	61.33734	43816192	
8	BTB-01157292	61.34878	43890714	
8	BTB-01157295	61.35317	43919283	
8	ARS-BFGL-NGS-60725	61.36986	44027940	
8	BTB-01479628	61.38582	44131865	
8	BTB-00345863	61.40343	44246522	
8	BTA-81130-no-rs	61.40803	44276510	
8	ARS-BFGL-NGS-114764	61.42155	44364572	
8	ARS-BFGL-NGS-25805	61.42737	44402416	
8	Hapmap33488-BTA-145765	61.43605	44458938	
8	Hapmap54235-rs29024181	61.44405	44511061	
8	BTB-00345484	61.45737	44597808	
8	ARS-BFGL-NGS-40540	61.46919	44674742	
8	BTB-00345453	61.47275	44697913	
8	Hapmap52635-rs29019622	61.48294	44764274	
8	Hapmap58021-ss46526078	61.50249	44891581	
8	ARS-BFGL-NGS-96104	61.50869	44931986	
8	BTB-00344647	61.52157	45015797	
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8	Hapmap42684-BTA-81111	61.52895	45063844	
8	ARS-BFGL-NGS-12866	61.53441	45099416	
8	ARS-BFGL-NGS-107099	61.53915	45130290	
8	BTB-00344825	61.54399	45161783	
8	ARS-BFGL-NGS-37450	61.54963	45198512	
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8	BTB-00344991	61.57059	45335032	
8	ARS-BFGL-NGS-47742	61.57463	45361292	
8	BTB-00343189	61.60359	45549903	
8	ARS-BFGL-NGS-80442	61.61567	45628525	
8	Hapmap48482-BTA-81078	61.62037	45659166	
8	ARS-BFGL-NGS-102915	61.62604	45696078	
8	BTA-81076-no-rs	61.6297	45719905	
8	UA-IFASA-2534	61.64275	45804905	
8	BTB-01679674	61.64651	45829367	
8	ARS-BFGL-NGS-66945	61.65162	45862659	
8	ARS-BFGL-NGS-83252	61.65636	45893510	
8	BTA-28215-no-rs	61.66126	45925424	
8	ARS-BFGL-NGS-113176	61.66619	45957514	
8	ARS-BFGL-NGS-28838	61.67592	46020875	
8	ARS-BFGL-NGS-82736	61.68477	46078510	
8	Hapmap31524-BTA-163487	61.69649	46154811	
8	ARS-BFGL-NGS-114212	61.70945	46239174	
8	ARS-BFGL-NGS-99602	61.71439	46271357	
8	ARS-BFGL-NGS-2224	61.71865	46299075	
8	BTB-01535731	61.72947	46369566	
8	BTB-01535659	61.7447	46468733	
8	ARS-BFGL-NGS-80030	61.76146	46577889	
8	Hapmap25854-BTA-149442	61.79961	46826308	
8	UA-IFASA-1863	61.80754	46877924	

8	BTB-01126961	61.8119	46906317
8	ARS-BFGL-NGS-114581	61.81808	46946557
8	BTB-00379881	61.82603	46998289
8	ARS-BFGL-NGS-114052	61.83272	47041865
8	Hapmap25377-BTA-84400	61.84052	47092657
8	BTA-111112-no-rs	61.84755	47138456
8	ARS-BFGL-NGS-118200	61.85513	47179793
8	BTB-01127160	61.86415	47224522
8	ARS-BFGL-NGS-116077	61.87265	47266632
8	Hapmap42727-BTA-92113	61.88204	47313169
8	BTB-01127329	61.88675	47336496
8	BTB-01415880	61.89275	47366278
8	BTA-90958-no-rs	61.90212	47412695
8	ARS-BFGL-NGS-97065	61.9071	47437417
8	BTB-01415809	61.91557	47479350
8	Hapmap51658-BTA-90960	61.92109	47506706
8	ARS-BFGL-NGS-109927	61.92785	47540190
8	ARS-BFGL-NGS-54252	61.93192	47560421
8	ARS-BFGL-NGS-75801	61.93967	47598802
8	ARS-BFGL-NGS-63664	61.94674	47633838
8	BTB-02006625	61.95862	47692727
8	Hapmap44413-BTA-81151	61.96436	47721188
8	BTB-02021838	61.96936	47745955
8	Hapmap46438-BTA-73270	61.97449	47771380
8	ARS-BFGL-NGS-47307	61.97867	47792098
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8	ARS-BFGL-NGS-86508	62.02151	48004440
8	ARS-BFGL-NGS-15499	62.04787	48135090
8	ARS-BFGL-NGS-70194	62.071	48249714
8	ARS-BFGL-NGS-53037	62.0807	48297805
8	ARS-BFGL-NGS-26860	62.08642	48326136
8	Hapmap42846-BTA-121840	62.11736	48479440
8	Hapmap44288-BTA-81147	62.13789	48581211
8	BTA-81149-no-rs	62.15405	48661319
8	BTB-01448117	62.17033	48741982
8	Hapmap41169-BTA-117725	62.17973	48788585
8	BTB-00392264	62.19493	48863941
8	BTB-00392243	62.20513	48914474
8	ARS-BFGL-NGS-87235	62.22998	49037615
8	ARS-BFGL-NGS-118781	62.24085	49091512
8	ARS-BFGL-NGS-25564	62.25483	49160774
8	BTA-83682-no-rs	62.26	49188668
8	ARS-BFGL-NGS-101117	62.26	49240974
8	BTB-00392134	62.26	49283003
8	BTB-00392170	62.26	49314894
8	BTB-00346830	62.26	49356892
8	ARS-BFGL-NGS-112419	62.26	49389656
8	BTB-00347022	62.26	49457771
8	Hapmap46968-BTA-21559	62.26	49524000
8	ARS-BFGL-NGS-78015	62.26	49550836
8	ARS-BFGL-NGS-31958	62.26	49581215
8	BTA-83665-no-rs	62.26	49604904
8	ARS-BFGL-NGS-107856	62.26	49626726
8	Hapmap54728-rs29023531	62.26	49664019
8	Hapmap42685-BTA-81134	62.26	49723924
8	BTB-00345981	62.26	49805589
8	BTB-00345948	62.26	49837145
8	BTB-00346133	62.30708	49925026
8	BTB-00346215	62.37847	49981054



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8	Hapmap49898-BTA-17990	62.5451	50111844
8	BTA-113168-no-rs	62.59177	50148467
8	BTB-01682521	62.64389	50189373
8	Hapmap39004-BTA-111126	62.67774	50215945
8	Hapmap53625-rs29014626	62.72146	50250254
8	BTB-01657021	62.75779	50278766
8	Hapmap50141-BTA-88345	62.7987	50310875
8	BTB-01399092	62.88622	50379563
8	BTA-88347-no-rs	62.89	50435953
8	Hapmap58724-rs29027171	62.89	50473492
8	BTB-01849506	62.89	50499574
8	BTB-01398754	62.89	50525859
8	BTB-02043496	62.89	50553225
8	BTB-00347427	62.89	50575791
8	BTB-00347355	62.89	50626573
8	BTB-00347320	62.89	50651804
8	ARS-BFGL-NGS-42825	62.89	50675127
8	ARS-BFGL-NGS-118729	62.89	50695489
8	BTB-00347130	62.89	50725941
8	ARS-BFGL-NGS-2608	62.89	50762327
8	ARS-BFGL-NGS-7814	62.89	50793491
8	Hapmap38287-BTA-112874	62.89	50833701
8	BTB-00347575	62.89	50904360
8	ARS-BFGL-NGS-111988	62.89	50938776
8	ARS-BFGL-NGS-10990	62.89	51024542
8	Hapmap53248-rs29027060	62.89	51045299
8	Hapmap25563-BTA-145800	62.89	51067668
8	ARS-BFGL-NGS-111925	62.89	51137296
8	BTB-00347877	62.89	51162242
8	Hapmap29314-BTA-156827	62.89	51185119
8	Hapmap51395-BTA-113897	62.89	51227380
8	ARS-BFGL-NGS-6275	62.89	51281537
8	BTB-01908971	62.89	51330787
8	Hapmap55401-rs29024656	62.89	51369892
8	BTB-00349308	62.89	51460409
8	BTB-00349291	62.90127	51504147
8	BTB-01713349	62.99285	51560983
8	BTB-01713444	63.04445	51593010
8	Hapmap48689-BTA-23260	63.1084	51632699
8	ARS-BFGL-NGS-3995	63.15573	51662076
8	Hapmap46879-BTA-81251	63.2094	51695384
8	ARS-BFGL-NGS-30559	63.2486	51719716
8	BTB-00349137	63.29333	51747482
8	Hapmap38472-BTA-121842	63.47703	51861488
8	BTB-00348844	63.53838	51899568
8	BTB-00348794	63.5756	51922662
8	Hapmap57994-rs29022887	63.61803	51948998
8	BTA-81238-no-rs	63.71947	52013978
8	BTB-00348584	63.89018	52124990
8	ARS-BFGL-NGS-72492	63.96207	52204929
8	BTB-00348451	64.02991	52280365
8	BTB-00348409	64.05075	52303539
8	ARS-BFGL-NGS-65269	64.09091	52348205
8	ARS-BFGL-NGS-73651	64.16677	52432552
8	BTB-00348223	64.20485	52474895
8	BTB-00795717	64.27895	52557297
8	BTB-00348139	64.35821	52645428
8	Hapmap40911-BTA-121841	64.40119	52693230

8	BTA-81190-no-rs	64.42967	52724898
8	Hapmap47747-BTA-81189	64.47961	52780433
8	Hapmap48089-BTA-81187	64.48	52808981
8	ARS-BFGL-NGS-76537	64.48	52939275
8	Hapmap41648-BTA-81180	64.48	52968995
8	ARS-BFGL-NGS-111611	64.48	53005429
8	BTB-00347944	64.48	53031744
8	ARS-BFGL-NGS-34789	64.55479	53070787
8	ARS-BFGL-NGS-82334	64.65938	53124621
8	Hapmap60967-rs29016114	64.77927	53173129
8	ARS-BFGL-NGS-17993	64.95513	53216502
8	Hapmap42531-BTA-38304	65.17295	53270232
8	ARS-BFGL-NGS-85644	65.46843	53343111
8	Hapmap30618-BTA-38298	65.49192	53382829
8	ARS-BFGL-NGS-37874	65.50437	53405158
8	BTB-00631986	65.51989	53432998
8	UA-IFASA-7888	65.55212	53490845
8	ARS-BFGL-NGS-45088	65.60306	53582226
8	BTB-00631737	65.63064	53631711
8	ARS-BFGL-NGS-116647	65.66209	53688139
8	BTB-00631715	65.69298	53743552
8	BTB-00631696	65.71641	53785595
8	Hapmap49589-BTA-38292	65.74973	53845391
8	Hapmap50345-BTA-38288	65.83041	53899633
8	ARS-BFGL-NGS-101465	65.90314	53948268
8	ARS-BFGL-NGS-24940	65.95107	53980316
8	BTA-38275-no-rs	65.99008	54006406
8	ARS-BFGL-NGS-30237	66.13762	54105059
8	BTA-38269-no-rs	66.17396	54129358
8	ARS-BFGL-NGS-86682	66.33847	54239367
8	Hapmap49140-BTA-38265	66.50626	54351569
8	ARS-BFGL-NGS-104841	66.58245	54402516
8	ARS-BFGL-NGS-110568	66.70224	54482615
8	ARS-BFGL-NGS-118172	66.73983	54507754
8	ARS-BFGL-NGS-24437	66.771	54528592
8	ARS-BFGL-NGS-33186	66.91839	54627149
8	ARS-BFGL-NGS-30955	67.07927	54734728
8	BTB-01520357	67.14664	54779775
8	ARS-BFGL-NGS-94901	67.23852	54841218
8	ARS-BFGL-NGS-19129	67.31841	54894631
8	Hapmap50281-BTA-21965	67.35738	54920696
8	BTB-01634942	67.40105	54961322
8	Hapmap59214-rs29014649	67.40482	55004792
8	Hapmap59304-rs29025230	67.40695	55029393
8	ARS-BFGL-NGS-69953	67.40914	55054601
8	BTB-01509839	67.41175	55084725
8	Hapmap50532-BTA-99413	67.41386	55108986
8	Hapmap51670-BTA-99409	67.41699	55145132
8	ARS-BFGL-NGS-103726	67.41897	55167893
8	ARS-BFGL-NGS-85223	67.42281	55212232
8	BTB-01865411	67.42518	55239532
8	ARS-BFGL-NGS-36380	67.42765	55268071
8	BTB-01820765	67.42966	55291182
8	ARS-BFGL-NGS-4226	67.43214	55319864
8	BTB-01328410	67.43601	55364509
8	Hapmap54208-rs29015846	67.44579	55477297
8	Hapmap54541-rs29014049	67.44827	55505902
8	BTA-107975-no-rs	67.45522	55586012
8	BTB-01616745	67.45741	55611200

8	ARS-BFGL-NGS-76732	67.46192	55663248
8	BTB-02017947	67.46465	55694695
8	Hapmap51811-BTA-119735	67.46674	55718826
8	BTB-01258879	67.46986	55754766
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8	ARS-BFGL-NGS-74002	67.54594	55813012
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8	Hapmap49049-BTA-119736	67.65293	55892688
8	BTA-119741-no-rs	67.69995	55927704
8	BTB-01259244	67.74471	55961041
8	ARS-BFGL-NGS-16472	67.79193	55996200
8	Hapmap52471-rs29024221	67.84859	56038396
8	ARS-BFGL-NGS-101052	67.92895	56098240
8	Hapmap41713-BTA-04854	67.96395	56124303
8	ARS-BFGL-NGS-118192	68.00059	56151592
8	ARS-BFGL-NGS-69264	68.08424	56213886
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8	Hapmap42858-BTA-17121	68.17764	56283438
8	BTB-01089722	68.19	56312607
8	ARS-BFGL-NGS-36943	68.19	56343552
8	BTA-15107-rs29026472	68.19576	56390438
8	ARS-BFGL-NGS-11505	68.20289	56442826
8	BTA-120434-no-rs	68.21239	56512655
8	ARS-BFGL-NGS-7163	68.2178	56552376
8	Hapmap29857-BTA-159710	68.22781	56625850
8	Hapmap42859-BTA-17125	68.26188	56876146
8	Hapmap47881-BTA-17122	68.27259	56954830
8	BTB-00349358	68.28019	57010667
8	Hapmap44621-BTA-81252	68.28749	57064274
8	ARS-BFGL-NGS-58080	68.29146	57093427
8	Hapmap59035-rs29025504	68.29448	57115636
8	BTB-01777663	68.30683	57206337
8	BTA-108808-no-rs	68.39437	57307140
8	BTB-01627853	68.42947	57339395
8	BTB-00349451	68.49922	57403486
8	Hapmap58974-rs29019488	68.5313	57432966
8	BTB-01732663	68.58537	57482644
8	Hapmap54905-rs29018794	68.63	57531155
8	BTB-00349550	68.63	57559835
8	ARS-BFGL-NGS-117692	68.79134	57592438
8	ARS-BFGL-NGS-108096	68.92929	57619690
8	ARS-BFGL-NGS-10175	69.00567	57714648
8	Hapmap47748-BTA-81265	69.03924	57756381
8	ARS-BFGL-NGS-33376	69.09184	57821769
8	BTA-81269-no-rs	69.11272	57847726
8	ARS-BFGL-NGS-34280	69.19666	57952087
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8	ARS-BFGL-NGS-60743	69.24327	58010028
8	UA-IFASA-4000	69.28448	58061272
8	BTB-00529163	69.32	58105422
8	BTA-108493-no-rs	69.34782	58140011
8	Hapmap47452-BTA-97231	69.56673	58412150
8	BTB-01485071	69.5978	58450779
8	Hapmap38451-BTA-97230	69.64161	58505244
8	Hapmap27409-BTA-144593	69.68584	58560232
8	BTB-01818596	69.71329	58594366
8	Hapmap43803-BTA-18277	69.73637	58623048
8	BTB-01989154	69.76045	58652991
8	Hapmap46519-BTA-28770	69.78102	58678555

8	Hapmap34677-BES4_Contig489_1116	69.86991	58789069
8	ARS-BFGL-NGS-23181	69.98026	58926246
8	BTB-00350639	70.02869	58986469
8	ARS-BFGL-NGS-56537	70.04927	59012043
8	Hapmap42118-BTA-16761	70.08321	59054244
8	BTB-01795129	70.10866	59085873
8	BTA-81277-no-rs	70.15128	59138856
8	ARS-BFGL-NGS-84712	70.20486	59205471
8	BTB-01470106	70.23678	59245157
8	BTA-95974-no-rs	70.29283	59314841
8	ARS-BFGL-NGS-70772	70.32738	59357791
8	BTB-01614102	70.34762	59382947
8	ARS-BFGL-NGS-118882	70.41321	59464494
8	BTB-00349926	70.45009	59510343
8	BTB-00349946	70.47516	59541510
8	ARS-BFGL-NGS-11896	70.57241	59662409
8	BTA-81281-no-rs	70.62802	59731552
8	Hapmap23845-BTA-81285	70.68721	59805132
8	ARS-BFGL-NGS-17163	70.71657	59841630
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8	Hapmap53279-rs29026049	70.97833	59954021
8	BTA-05411-rs29019571	71.04832	59978473
8	ARS-USMARC-Parent-AY850194-no-rs	71.09973	59996431
8	ARS-BFGL-NGS-112343	71.21648	60037216
8	Hapmap55188-rs29018512	71.42139	60108805
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8	ARS-BFGL-NGS-44611	71.75668	60225941
8	Hapmap48090-BTA-81304	71.8717	60269047
8	ARS-BFGL-NGS-100613	71.88189	60290229
8	ARS-BFGL-NGS-58499	71.89619	60319936
8	ARS-BFGL-NGS-1040	71.9119	60352572
8	ARS-BFGL-NGS-5372	71.94529	60421946
8	Hapmap57385-rs29020823	71.97077	60474882
8	Hapmap40896-BTA-118202	72.0257	60589007
8	ARS-BFGL-NGS-112663	72.06273	60665941
8	BTB-01552316	72.08566	60713585
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8	ARS-BFGL-NGS-40630	72.12762	60800770
8	ARS-BFGL-NGS-115798	72.13845	60823250
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8	ARS-BFGL-NGS-102	72.26582	60952836
8	BTB-00352779	72.30739	60990733
8	Hapmap39688-BTA-81545	72.33353	61014570
8	Hapmap49326-BTA-81546	72.36373	61042106
8	ARS-BFGL-NGS-55438	72.41877	61092282
8	Hapmap36177-SCAFFOLD210634_2319	72.44426	61115517
8	BTB-00350945	72.49866	61165111
8	Hapmap40026-BTA-81432	72.55158	61213362
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8	ARS-BFGL-NGS-1647	72.70857	61356475
8	ARS-BFGL-NGS-71125	72.75674	61400389
8	ARS-BFGL-NGS-116121	72.81573	61450541
8	ARS-BFGL-NGS-20978	72.86116	61481458
8	ARS-BFGL-NGS-22891	72.89879	61507067
8	ARS-BFGL-NGS-16857	72.94267	61536940
8	BTB-00104976	73.05628	61614265
8	BTB-00104986	73.09361	61639671
8	BTB-00105019	73.15622	61682285

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8	BTB-00351490	73.25916	61752353
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8	BTB-00351431	73.34684	61812025
8	BTA-81483-no-rs	73.38595	61838644
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8	Hapmap52876-ss46526288	73.55155	61951362
8	Hapmap46880-BTA-81470	73.5901	61977595
8	ARS-BFGL-NGS-21937	73.65733	62015685
8	ARS-BFGL-NGS-21515	73.70348	62040920
8	ARS-BFGL-NGS-88926	73.74607	62064212
8	ARS-BFGL-NGS-116281	74.74203	62469487
8	ARS-BFGL-NGS-23940	74.75318	62514917
8	ARS-BFGL-NGS-97020	74.76039	62544260
8	Hapmap38124-BTA-81328	74.76814	62575787
8	ARS-BFGL-NGS-10850	74.78286	62635719
8	BTB-00350726	74.79003	62664891
8	BTA-96030-no-rs	74.80231	62714909
8	ARS-BFGL-NGS-43821	74.81199	62754286
8	ARS-BFGL-NGS-98511	74.83029	62828794
8	ARS-BFGL-NGS-118159	74.83543	62849679
8	Hapmap30023-BTA-150747	74.84572	62891563
8	ARS-BFGL-NGS-104862	74.85784	62940921
8	ARS-BFGL-NGS-107859	74.8724	63000189
8	ARS-BFGL-NGS-63568	74.91224	63162363
8	Hapmap39528-BTA-03210	74.92652	63220492
8	Hapmap57239-rs29018125	74.93281	63246078
8	Hapmap51058-BTA-81570	74.96044	63358564
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8	ARS-BFGL-NGS-16992	74.97944	63435892
8	Hapmap41091-BTA-81593	74.99082	63482229
8	ARS-BFGL-NGS-19737	74.99632	63504584
8	ARS-BFGL-NGS-72086	75.01495	63580406
8	BTB-00353329	75.02595	63625209
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8	BTA-09061-rs29025228	75.03733	63671545
8	ARS-BFGL-NGS-101225	75.06207	63772223
8	ARS-BFGL-NGS-14350	75.07275	63815716
8	BTB-00353549	75.08746	63875597
8	ARS-BFGL-NGS-66921	75.0938	63901386
8	BTB-00353359	75.10126	63931756
8	Hapmap51059-BTA-81602	75.10738	63956656
8	ARS-BFGL-NGS-34498	75.11485	63987100
8	ARS-BFGL-NGS-66538	75.12183	64011227
8	ARS-BFGL-NGS-73647	75.13474	64033680
8	Hapmap57206-rs29025935	75.15453	64068111
8	ARS-BFGL-NGS-69854	75.16666	64089209
8	ARS-BFGL-NGS-104688	75.1829	64117462
8	Hapmap54421-rs29021656	75.21458	64172559
8	ARS-BFGL-NGS-60015	75.23549	64208930
8	ARS-BFGL-NGS-106208	75.256	64244606
8	BTA-81701-no-rs	75.2683	64266000
8	BTB-01548939	75.30937	64337449
8	BTB-01549056	75.36734	64438267
8	ARS-BFGL-NGS-16925	75.38948	64476783
8	ARS-BFGL-NGS-83954	75.402	64498567
8	ARS-BFGL-NGS-87528	75.43549	64556812
8	BTB-01093491	75.4563	64593005
8	BTB-01093562	75.50941	64685392

8	ARS-BFGL-NGS-93209	75.55347	64762033
8	BTB-01093715	75.58188	64811441
8	ARS-BFGL-NGS-89215	75.60322	64848565
8	Hapmap44415-BTA-81700	75.6566	64941406
8	Hapmap30871-BTA-158348	75.69534	65008794
8	BTA-118293-no-rs	75.71115	65036298
8	BTB-01093959	75.75182	65107050
8	BTA-19348-no-rs	75.8847	65338177
8	ARS-BFGL-NGS-111193	75.92133	65401868
8	ARS-BFGL-NGS-15846	75.97755	65499675
8	ARS-BFGL-NGS-111488	76.01	65569786
8	BTB-00950285	76.01	65609180
8	BTB-00950287	76.01	65632034
8	BTA-29456-no-rs	76.01	65659020
8	ARS-BFGL-NGS-93472	76.01	65721612
8	ARS-BFGL-NGS-118418	76.01354	65897661
8	Hapmap24224-BTA-93350	76.05293	65960156
8	ARS-BFGL-NGS-24979	76.07437	65994188
8	BTB-01847877	76.31178	66192312
8	BTB-01423887	76.43785	66340852
8	ARS-BFGL-NGS-78877	76.597	66596921
8	BTB-01916334	76.63216	66653491
8	BTB-01149154	76.6743	66721299
8	ARS-BFGL-NGS-109331	76.69195	66749701
8	BTB-01149334	76.71416	66785437
8	ARS-BFGL-NGS-113542	76.73624	66820951
8	ARS-BFGL-NGS-39028	76.77121	66877233
8	BTB-01563041	76.80373	66929546
8	ARS-BFGL-NGS-36325	76.83497	66979816
8	ARS-BFGL-NGS-96805	76.92937	67131705
8	ARS-BFGL-NGS-87805	76.94482	67156577
8	ARS-BFGL-NGS-29663	76.95387	67180774
8	UA-IFASA-2642	76.97335	67260693
8	ARS-BFGL-NGS-117186	76.98067	67290734
8	ARS-BFGL-NGS-101907	77.01	67460654
8	Hapmap51060-BTA-81722	77.01	67504393
8	ARS-BFGL-NGS-100986	77.01	67527939
8	BTB-01403232	77.01	67564479
8	UA-IFASA-2124	77.01	67596919
8	Hapmap24348-BTA-159633	77.01	67636677
8	ARS-BFGL-NGS-98704	77.01	67691448
8	ARS-BFGL-NGS-32974	77.01343	67748043
8	ARS-BFGL-NGS-115977	77.07409	67822026
8	ARS-BFGL-NGS-40613	77.09423	67846594
8	Hapmap59270-rs29027144	77.18729	67960091
8	ARS-BFGL-NGS-88701	77.22898	68010939
8	BTB-01530957	77.27717	68069707
8	ARS-BFGL-NGS-11076	77.35796	68168243
8	ARS-BFGL-NGS-102934	77.3883	68205232
8	ARS-BFGL-NGS-15420	77.41126	68233244
8	ARS-BFGL-NGS-34320	77.43713	68264801
8	ARS-BFGL-NGS-112744	77.49922	68340517
8	Hapmap50918-BTA-23068	77.55174	68404576
8	ARS-BFGL-NGS-19671	77.58257	68442169
8	BTB-01163619	77.63141	68501738
8	Hapmap60569-rs29012097	77.73947	68633530
8	Hapmap58041-rs29013326	77.7609	68659666
8	Hapmap60281-rs29010321	77.78554	68689710
8	Hapmap20010-rs29023459	77.80578	68714404

8	ARS-BFGL-NGS-115666	77.84029	68756483	
8	ARS-BFGL-NGS-12291	77.89677	68825373	
8	Hapmap25871-BTA-152798	77.96603	68894735	
8	ARS-BFGL-NGS-35672	78.24397	69117267	
8	ARS-BFGL-NGS-14760	78.28422	69149489	
8	Hapmap41092-BTA-81768	78.33994	69194095	
8	ARS-BFGL-NGS-108429	78.4538	69285264	
8	ARS-BFGL-NGS-110811	78.5268	69343704	
8	ARS-BFGL-NGS-116357	78.59599	69399094	
8	ARS-BFGL-NGS-48897	78.63598	69431109	
8	Hapmap38700-BTA-81760	78.66606	69455202	
8	ARS-BFGL-NGS-119371	78.70358	69485231	
8	Hapmap51638-BTA-81759	78.7536	69525276	
8	ARS-BFGL-NGS-53243	78.7849	69550332	
8	ARS-BFGL-NGS-61894	78.87564	69622989	
8	ARS-BFGL-NGS-62999	78.91962	69658202	
8	BTB-00352224	78.95103	69683348	
8	ARS-BFGL-NGS-13778	79.00282	69724810	
8	ARS-BFGL-NGS-38434	79.23438	69923213	
8	ARS-BFGL-NGS-87852	79.30441	70016664	
8	BTB-00352027	79.36193	70093416	
8	ARS-BFGL-NGS-28690	79.51519	70145158	
8	Hapmap45349-BTA-121854	79.53088	70146951	
8	ARS-BFGL-NGS-90266	79.78	70197351	
8	BTB-01605981	79.78	70252582	
8	Hapmap58018-ss46526014	79.78	70401417	
8	ARS-BFGL-NGS-119380	79.78	70435604	
8	ARS-BFGL-NGS-35876	79.89244	70535700	
8	ARS-BFGL-NGS-111267	79.98042	70561910	
8	Hapmap39439-BTA-81498	80.05817	70585081	
8	BTB-00351625	80.15203	70613051	
8	ARS-BFGL-NGS-17346	80.28919	70653923	
8	Hapmap26182-BTA-156401	80.50226	70717409	
8	ARS-BFGL-NGS-10392	80.59921	70746297	
8	ARS-BFGL-NGS-107926	80.73176	70785796	
8	BTA-81775-no-rs	81.67402	71263375	
8	ARS-BFGL-NGS-119743	81.71577	71293524	
8	ARS-BFGL-NGS-104801	81.75363	71320860	
8	ARS-BFGL-NGS-108666	81.79782	71352779	
8	ARS-BFGL-NGS-3330	81.90457	71429865	
8	ARS-BFGL-NGS-110168	81.95103	71463417	
8	ARS-BFGL-NGS-194	81.99033	71491790	
8	Hapmap53725-rs29024484	82.04995	71534841	
8	ARS-BFGL-NGS-12424	82.14058	71600288	
8	ARS-BFGL-NGS-3865	82.22965	71664605	
8	ARS-BFGL-NGS-106314	82.26542	71690437	
8	ARS-BFGL-NGS-110492	82.33815	71742957	
8	Hapmap39948-BTA-81787	82.37407	71768899	
8	BTB-00356675	82.41515	71798562	
8	ARS-BFGL-NGS-31005	82.45256	71825576	
8	Hapmap34135-BES5_Contig253_343		82.52036	71874533
8	ARS-BFGL-NGS-79449	82.90379	72151421	
8	ARS-BFGL-NGS-12808	83.03017	72242683	
8	ARS-BFGL-NGS-55686	83.2416	72395359	
8	Hapmap31170-BTA-156950	83.29485	72433810	
8	BTB-01512420	83.37979	72495155	
8	BTB-02078167	83.42854	72530353	
8	BTB-01227475	83.46169	72554288	
8	BTB-01227548	83.49548	72578691	

8	BTB-01227478	83.52943	72603211
8	BTB-01913017	83.61005	72661428
8	ARS-BFGL-NGS-70701	83.70582	72756391
8	ARS-BFGL-NGS-16507	83.73859	72778125
8	BTB-01975364	83.77737	72803853
8	ARS-BFGL-NGS-29576	83.84431	72848261
8	Hapmap29566-BTA-148149	83.9407	72912204
8	ARS-BFGL-NGS-117081	83.99623	72949048
8	BTB-00352963	84.09015	73011355
8	BTB-00352897	84.27154	73131682
8	BTB-00358338	84.76191	73267165
8	ARS-BFGL-NGS-115183	85.01132	73330125
8	BTB-00358231	85.18904	73374994
8	ARS-BFGL-NGS-16531	85.3494	73415473
8	BTA-81848-no-rs	85.4292	73435613
8	BTB-00357945	85.59243	73482124
8	ARS-BFGL-NGS-108557	85.8866	73570274
8	ARS-BFGL-NGS-10271	86.15938	73652011
8	BTB-00357814	86.22419	73680263
8	BTB-00357792	86.26294	73715997
8	BTB-00357728	86.35489	73800791
8	BTB-00357677	86.38557	73829090
8	BTB-00357641	86.41461	73855871
8	Hapmap48904-BTA-81827	86.44262	73881694
8	BTB-00357617	86.47112	73907982
8	BTA-81825-no-rs	86.56335	73993040
8	BTA-81821-no-rs	86.59134	74018852
8	ARS-BFGL-NGS-4212	86.63605	74060086
8	Hapmap43489-BTA-121857	86.67283	74093999
8	BTB-00357438	86.70733	74125817
8	Hapmap38894-BTA-44863	86.74258	74158317
8	ARS-BFGL-NGS-5294	86.76477	74178784
8	BTA-21730-no-rs	86.93559	74336311
8	Hapmap48427-BTA-66501	86.97616	74373729
8	BTB-01004402	87.02972	74423117
8	ARS-BFGL-NGS-91718	87.07804	74467685
8	Hapmap57757-ss46526215	87.60033	74949334
8	Hapmap40379-BTA-98361	87.62402	74971186
8	ARS-BFGL-NGS-53058	87.65275	74997682
8	ARS-BFGL-NGS-20848	87.68185	75024518
8	ARS-BFGL-NGS-31121	87.70829	75048907
8	ARS-BFGL-NGS-93354	87.74223	75080206
8	BTB-00358604	87.77426	75109746
8	BTA-81867-no-rs	87.84506	75175034
8	ARS-BFGL-NGS-12886	87.87634	75203883
8	BTB-00358369	87.92	75347512
8	ARS-BFGL-NGS-112998	87.93349	75392377
8	BTB-01751181	88.00924	75514239
8	BTB-00359194	88.07597	75621615
8	Hapmap53985-rs29024476	88.09363	75650021
8	Hapmap57092-ss46526915	88.1124	75680231
8	ARS-BFGL-NGS-33264	88.16153	75759261
8	BTA-73603-no-rs	88.18563	75798051
8	BTB-01251263	88.2	75867695
8	ARS-BFGL-NGS-45189	88.2	75874902
8	ARS-BFGL-NGS-115955	88.2	75919385
8	ARS-BFGL-NGS-63459	88.22575	76005495
8	BTB-00227661	88.25523	76059716
8	ARS-BFGL-NGS-105738	88.27135	76089371



8	BTB-00227581	88.28747	76119002	
8	ARS-BFGL-NGS-114115	88.30555	76152259	
8	ARS-BFGL-NGS-7080	88.34869	76231601	
8	ARS-BFGL-NGS-79292	88.41508	76353681	
8	BTB-00359112	88.44212	76403422	
8	ARS-BFGL-NGS-118809	88.4697	76454131	
8	ARS-BFGL-NGS-90466	88.48008	76473229	
8	BTA-18236-no-rs	88.49865	76507379	
8	Hapmap51639-BTA-81812	88.56017	76620508	
8	ARS-BFGL-NGS-25137	88.58713	76670107	
8	BTB-00357391	88.60325	76699749	
8	BTB-00357421	88.62443	76738695	
8	Hapmap39073-BTA-81872	88.64239	76771728	
8	ARS-BFGL-NGS-112795	88.67284	76827725	
8	Hapmap33945-BES1_Contig318_945		88.69478	76868090
8	Hapmap58591-rs29013400	88.71236	76900430	
8	ARS-BFGL-NGS-18438	88.74261	76956047	
8	ARS-BFGL-NGS-28135	88.76291	76993372	
8	BTB-00359759	88.7818	77028125	
8	BTB-00359781	88.79501	77052419	
8	ARS-BFGL-NGS-8384	88.80931	77078725	
8	ARS-BFGL-NGS-46718	88.82288	77103681	
8	Hapmap58415-rs29020898	88.8347	77125415	
8	ARS-BFGL-NGS-97175	88.85696	77166351	
8	ARS-BFGL-NGS-29083	88.87756	77204243	
8	BTA-81945-no-rs	88.90401	77252882	
8	ARS-BFGL-NGS-20022	88.92003	77282343	
8	BTB-00359996	88.94629	77330639	
8	ARS-BFGL-NGS-79809	88.98257	77397361	
8	ARS-BFGL-NGS-12088	89.00165	77432453	
8	ARS-BFGL-NGS-72545	89.0462	77514377	
8	ARS-BFGL-NGS-55938	89.06387	77546886	
8	Hapmap38125-BTA-81948	89.08099	77578357	
8	ARS-BFGL-NGS-54264	89.09723	77608240	
8	Hapmap25375-BTA-81957	89.11002	77631752	
8	ARS-BFGL-NGS-31251	89.18356	77767018	
8	ARS-BFGL-NGS-29876	89.22448	77842261	
8	BTB-00360436	89.2437	77877611	
8	BTB-00360293	89.27651	77937951	
8	BTB-00360249	89.30157	77984041	
8	ARS-BFGL-NGS-9052	89.31532	78009328	
8	ARS-BFGL-NGS-116019	89.34032	78055295	
8	BTB-00699115	89.35536	78082969	
8	BTB-00360130	89.38912	78145059	
8	BTB-01900316	89.43363	78226921	
8	ARS-BFGL-NGS-58296	89.45384	78281627	
8	Hapmap23947-BTA-153013	89.46408	78347212	
8	BTB-01139309	89.47083	78390388	
8	BTA-96361-no-rs	89.47841	78438963	
8	BTB-01139387	89.48516	78482209	
8	ARS-BFGL-NGS-108587	89.49314	78533314	
8	ARS-BFGL-NGS-101317	89.50354	78599915	
8	Hapmap43733-BTA-96346	89.51238	78656558	
8	BTB-01139515	89.51947	78701950	
8	UA-IFASA-2457	89.5296	78744151	
8	BTB-01139563	89.53815	78778730	
8	ARS-BFGL-NGS-59526	89.54596	78810298	
8	BTB-01139852	89.55595	78850678	
8	Hapmap41695-BTA-96357	89.56583	78890670	

8	BTB-01139763	89.57161	78914017	
8	BTB-01139875	89.57805	78940049	
8	Hapmap50167-BTA-95319	89.6392	79187322	
8	ARS-BFGL-NGS-83530	89.67054	79314073	
8	ARS-BFGL-NGS-33731	89.6779	79343831	
8	BTA-106529-no-rs	89.69547	79414861	
8	BTB-01733915	89.70673	79460414	
8	BTB-00360817	89.71592	79497558	
8	Hapmap54400-rs29020952	89.72514	79534851	
8	Hapmap34874-BES3_Contig415_1312	89.73118		79559282
8	BTB-00360865	89.73873	79589820	
8	BTB-00360903	89.74472	79614032	
8	Hapmap60592-rs29025478	89.7561	79660034	
8	BTB-00360965	89.76566	79698719	
8	Hapmap47751-BTA-81989	89.77443	79734160	
8	ARS-BFGL-NGS-116992	89.78439	79774422	
8	BTA-90142-no-rs	89.79496	79817203	
8	ARS-BFGL-NGS-86158	89.82337	79932091	
8	BTB-01593847	89.83229	79968139	
8	BTB-01593897	89.83891	79994924	
8	BTB-01593919	89.84705	80027841	
8	Hapmap39358-BTA-82003	89.87604	80126915	
8	BTB-00361164	89.88	80152774	
8	ARS-BFGL-NGS-67446	89.88	80184285	
8	ARS-BFGL-NGS-109897	89.88	80212958	
8	ARS-BFGL-NGS-31544	89.88	80280501	
8	BTB-00360684	89.88	80431297	
8	ARS-BFGL-NGS-43641	89.88	80647410	
8	BTB-00887774	89.88	80684972	
8	Hapmap43694-BTA-81977	89.88	80768766	
8	Hapmap42595-BTA-58006	89.88	80899428	
8	Hapmap43395-BTA-88866	89.91802	80944503	
8	BTB-00361571	89.97562	80993534	
8	BTB-01885821	90.08089	81083170	
8	ARS-BFGL-NGS-11101	90.11048	81108363	
8	BTB-01205768	90.1629	81152983	
8	ARS-BFGL-NGS-5591	90.24268	81220910	
8	BTB-01205736	90.34166	81305174	
8	BTA-110160-no-rs	90.47169	81389800	
8	ARS-BFGL-NGS-15117	90.62566	81464865	
8	BTB-02009158	90.79053	81545238	
8	BTB-01506818	90.84772	81573118	
8	Hapmap44267-BTA-65015	90.91061	81603784	
8	Hapmap38552-BTA-99266	90.92766	81612097	
8	BTB-01506927	91.20531	81747455	
8	UA-IFASA-4299	91.26788	81777958	
8	Hapmap47422-BTA-82035	91.47288	81877902	
8	BTB-00362009	91.65033	81964415	
8	BTB-01093397	91.7575	82016661	
8	ARS-BFGL-NGS-9736	91.81528	82044831	
8	BTB-01093337	91.9266	82099108	
8	ARS-BFGL-NGS-4606	91.9806	82125433	
8	ARS-BFGL-NGS-67447	92.04588	82157258	
8	ARS-BFGL-NGS-33781	92.1236	82195153	
8	BTB-01093064	92.18276	82223990	
8	ARS-BFGL-NGS-22890	92.23545	82249679	
8	ARS-BFGL-NGS-108549	92.36294	82311830	
8	Hapmap54924-ss46526008	92.48384	82370775	
8	Hapmap39980-BTA-19002	92.62402	82439119	

8	BTB-01092452	92.69004	82471304
8	BTA-18997-no-rs	92.75385	82502419
8	ARS-BFGL-NGS-88491	92.85368	82551079
8	BTB-01092130	92.88	82687188
8	BTB-01092096	92.93462	82847525
8	ARS-BFGL-NGS-59227	92.9676	82922937
8	BTA-82019-no-rs	92.97756	82945723
8	ARS-BFGL-NGS-105269	93.01175	83023897
8	UA-IFASA-8810	93.02251	83048502
8	BTB-00362297	93.06143	83137521
8	Hapmap26236-BTA-82014	93.08467	83190665
8	ARS-BFGL-NGS-24376	93.12098	83273697
8	BTB-00362368	93.13286	83300867
8	ARS-BFGL-NGS-37913	93.16303	83369876
8	BTB-00362387	93.19326	83439524
8	ARS-BFGL-NGS-57360	93.20991	83480253
8	ARS-BFGL-NGS-119893	93.22433	83515554
8	BTB-01183131	93.23311	83537018
8	BTB-01183118	93.24751	83572230
8	Hapmap57319-rs29012379	93.27356	83635957
8	BTA-101429-no-rs	93.29697	83693221
8	BTA-14515-no-rs	93.37696	83888935
8	ARS-BFGL-NGS-99216	93.39272	83927495
8	ARS-BFGL-NGS-24230	93.47932	84139335
8	ARS-BFGL-NGS-108358	93.49541	84178715
8	BTB-01550361	93.53995	84287660
8	BTA-82061-no-rs	93.58207	84390706
8	BTA-86829-no-rs	93.60487	84446493
8	ARS-BFGL-NGS-57673	93.61623	84474299
8	ARS-BFGL-NGS-42477	93.63016	84508357
8	Hapmap51498-BTA-82054	93.64973	84556225
8	ARS-BFGL-NGS-90763	93.67252	84612010
8	BTB-00363190	93.6841	84640314
8	ARS-BFGL-NGS-86428	93.69472	84666284
8	BTB-00363158	93.70816	84699176
8	BTB-00363099	93.72407	84738093
8	BTA-82046-no-rs	93.74135	84780381
8	BTB-00362983	93.74815	84797018
8	BTB-00362651	93.78891	84896726
8	BTB-00364397	93.87932	85117915
8	BTB-02035029	93.88869	85140840
8	Hapmap48907-BTA-82124	93.90624	85183773
8	BTB-00364121	93.92387	85226911
8	Hapmap53638-rs29019444	93.94308	85273894
8	Hapmap40466-BTA-82123	93.95557	85304450
8	ARS-BFGL-NGS-58677	93.9659	85329708
8	BTB-00364006	93.97838	85360254
8	Hapmap41653-BTA-82121	93.99139	85392078
8	Hapmap39282-BTA-63744	94.02831	85482389
8	BTB-00321373	94.04037	85511930
8	Hapmap48898-BTA-79943	94.05814	85555383
8	Hapmap24198-BTA-145271	94.0674	85578043
8	ARS-BFGL-NGS-212	94.09483	85645138
8	ARS-BFGL-NGS-30466	94.15277	85786900
8	BTB-01235668	94.16237	85810372
8	ARS-BFGL-NGS-66366	94.17185	85833568
8	ARS-BFGL-NGS-116926	94.19102	85880449
8	BTB-01235513	94.20061	85903941
8	ARS-BFGL-NGS-63666	94.21417	85937098

8	ARS-BFGL-NGS-26532	94.26302	86056611
8	ARS-BFGL-NGS-104204	94.28149	86101796
8	ARS-BFGL-NGS-43823	94.29258	86128908
8	Hapmap49034-BTA-115720	94.32404	86205872
8	ARS-BFGL-NGS-107062	94.34003	86245016
8	ARS-BFGL-NGS-105750	94.35574	86283449
8	ARS-BFGL-NGS-92065	94.38615	86357827
8	ARS-BFGL-NGS-20324	94.39721	86384898
8	ARS-BFGL-NGS-32393	94.42071	86442366
8	BTA-82147-no-rs	94.43304	86472562
8	ARS-BFGL-NGS-25285	94.44467	86501009
8	BTA-52694-no-rs	94.45987	86538180
8	ARS-BFGL-NGS-29780	94.46896	86560410
8	ARS-BFGL-NGS-110505	94.49046	86613020
8	ARS-BFGL-NGS-13571	94.50455	86647495
8	Hapmap51251-BTA-52691	94.51352	86669435
8	ARS-BFGL-NGS-11414	94.52214	86690521
8	BTB-00301689	94.53342	86718128
8	Hapmap47937-BTA-39125	94.55893	86780525
8	ARS-BFGL-NGS-61328	94.57114	86810388
8	ARS-BFGL-NGS-102769	94.66425	87038169
8	ARS-BFGL-NGS-103237	94.67642	87067969
8	BTB-02000008	94.7063	87141059
8	ARS-BFGL-NGS-101016	94.74536	87236608
8	ARS-BFGL-NGS-110544	94.77459	87308122
8	Hapmap57797-rs29012807	94.78428	87331818
8	ARS-BFGL-NGS-116122	94.79883	87367415
8	ARS-BFGL-NGS-106057	94.81313	87402415
8	ARS-BFGL-NGS-29240	94.82616	87434296
8	ARS-BFGL-NGS-33753	94.85465	87503980
8	Hapmap42335-BTA-82080	94.86967	87540746
8	ARS-BFGL-NGS-64395	94.88108	87568636
8	ARS-BFGL-NGS-69582	94.89336	87598677
8	ARS-BFGL-NGS-10590	94.9054	87628120
8	ARS-BFGL-NGS-57691	94.92014	87664192
8	Hapmap39516-BTA-82096	94.93296	87695565
8	Hapmap29836-BTA-146056	94.95589	87751656
8	ARS-BFGL-NGS-106522	95.01778	87903078
8	BTB-00363889	95.07825	88030446
8	ARS-BFGL-NGS-28685	95.11299	88096752
8	ARS-BFGL-NGS-23110	95.12473	88119170
8	ARS-BFGL-NGS-101020	95.13643	88141495
8	ARS-BFGL-NGS-103119	95.1574	88181529
8	ARS-BFGL-NGS-1976	95.18666	88237379
8	BTB-00364553	95.22086	88302649
8	BTA-82131-no-rs	95.23499	88329628
8	BTB-00364642	95.26191	88381021
8	ARS-BFGL-NGS-34005	95.27721	88410238
8	Hapmap49329-BTA-82142	95.30566	88464533
8	ARS-BFGL-NGS-101790	95.33061	88512163
8	BTB-00364735	95.34805	88545459
8	ARS-BFGL-NGS-104416	95.37	88669234
8	BTB-00365129	95.37	88738557
8	BTB-01455119	95.37	88776350
8	Hapmap59594-rs29022959	95.37	88807058
8	ARS-BFGL-NGS-103401	95.37	88841102
8	ARS-BFGL-NGS-15757	95.37	88883442
8	ARS-BFGL-NGS-4748	95.37	88931059
8	ARS-USMARC-Parent-DQ837644-rs29010468	95.37	88974063

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8	Hapmap49424-BTA-105436	95.40191	89029556	
8	BTB-01579150	95.42252	89061216	
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8	BTA-118236-no-rs	95.60152	89336196	
8	Hapmap29798-BTA-123165	95.66739	89437358	
8	Hapmap50285-BTA-22414	95.7242	89524623	
8	Hapmap53185-rs29010294	95.75008	89564388	
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8	BTA-82162-no-rs	95.81058	89657320	
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8	ARS-BFGL-NGS-73943	95.84355	89707967	
8	ARS-BFGL-NGS-28334	95.85123	89719761	
8	Hapmap33368-BTA-146079	95.86639	89743053	
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8	ARS-BFGL-NGS-41176	95.89511	89803602	
8	ARS-BFGL-NGS-94520	95.90312	89824596	
8	Hapmap61061-rs29020453	95.91644	89859523	
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8	ARS-BFGL-NGS-23784	96.02249	90137668	
8	ARS-BFGL-NGS-100694	96.03721	90176276	
8	ARS-BFGL-NGS-62422	96.04543	90197837	
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8	ARS-BFGL-NGS-2285	96.09911	90338627	
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8	Hapmap45972-BTA-102617	96.15323	90480558	
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8	ARS-BFGL-NGS-102412	96.19077	90579016	
8	Hapmap58427-rs29021328	96.20296	90610971	
8	ARS-BFGL-NGS-113287	96.2252	90669303	
8	Hapmap33490-BTA-146089	96.23437	90693363	
8	Hapmap57848-rs29015158	96.24247	90714611	
8	BTA-52455-no-rs	96.27817	90808222	
8	ARS-BFGL-NGS-88250	96.29185	90844129	
8	Hapmap51330-BTA-85616	96.37198	90984428	
8	ARS-BFGL-NGS-41276	96.40682	91028992	
8	Hapmap23639-BTA-147084	96.43285	91062279	
8	ARS-BFGL-NGS-112367	96.45193	91086691	
8	ARS-BFGL-NGS-54525	96.4821	91125290	
8	Hapmap34207-BES2_Contig460_395		96.52962	91186071
8	ARS-BFGL-NGS-22144	96.70536	91351636	
8	ARS-BFGL-NGS-41178	96.79041	91401417	
8	BTA-23643-no-rs	96.86226	91443463	
8	BTA-23646-no-rs	96.89748	91464082	
8	ARS-BFGL-NGS-25309	96.95929	91577184	
8	ARS-BFGL-NGS-8769	96.97353	91642318	
8	Hapmap50118-BTA-82222	96.97913	91667879	
8	ARS-BFGL-NGS-81161	96.99355	91733872	
8	BTA-82231-no-rs	97.01122	91814625	
8	ARS-BFGL-NGS-109639	97.01949	91852447	
8	BTA-82243-no-rs	97.03091	91904724	
8	ARS-BFGL-NGS-102315	97.03733	91934056	

8	Hapmap52673-rs29019309	97.06091	92041886	
8	BTA-93110-no-rs	97.08407	92147781	
8	ARS-BFGL-NGS-114685	97.10947	92263938	
8	Hapmap48568-BTA-103950	97.1305	92360128	
8	ARS-BFGL-NGS-65038	97.14954	92447183	
8	ARS-BFGL-NGS-13401	97.16323	92509802	
8	BTB-01415906	97.17769	92575940	
8	Hapmap49330-BTA-82198	97.189	92627675	
8	BTB-00366038	97.19547	92657249	
8	Hapmap38258-BTA-82187	97.20488	92700263	
8	Hapmap34958-BES7_Contig509_1173	97.21464		92744889
8	ARS-BFGL-NGS-107648	97.22509	92792703	
8	Hapmap54525-ss46526442	97.2563	92935430	
8	ARS-BFGL-NGS-64799	97.26435	92972234	
8	BTA-16616-no-rs	97.27435	93017958	
8	BTB-00488829	97.28258	93055587	
8	BTB-00488794	97.29089	93090764	
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8	ARS-BFGL-NGS-87787	97.34957	93171893	
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8	BTB-01634267	97.46834	93336078	
8	ARS-BFGL-NGS-1517	97.50169	93382177	
8	BTB-01864543	97.51799	93404723	
8	ARS-BFGL-NGS-19762	97.53847	93433032	
8	BTB-01364301	97.56538	93470237	
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8	BTA-28961-no-rs	97.65565	93582289	
8	BTB-01364009	97.68851	93611407	
8	Hapmap27238-BTA-163742	97.73814	93655394	
8	BTB-01363817	97.77884	93691445	
8	BTB-01363633	97.81702	93725282	
8	BTB-01363589	97.82677	93733918	
8	BTB-01785453	97.8856	93786059	
8	BTB-01537249	97.93034	93825702	
8	BTA-101737-no-rs	97.97723	93867246	
8	BTA-101724-no-rs	98.00976	93896073	
8	ARS-BFGL-NGS-18836	98.09318	93969992	
8	BTA-82314-no-rs	98.12482	93998021	
8	BTB-00367678	98.15093	94021165	
8	BTB-00367837	98.22668	94088291	
8	Hapmap35016-BES11_Contig229_940	98.25758		94115663
8	BTB-00368041	98.30424	94157018	
8	Hapmap41979-BTA-82318	98.5321	94358932	
8	BTB-00368155	98.56373	94386951	
8	ARS-BFGL-NGS-54516	98.5936	94413416	
8	ARS-BFGL-NGS-50038	98.64717	94460889	
8	ARS-BFGL-NGS-32057	98.72733	94531924	
8	BTB-00368434	98.75939	94560328	
8	Hapmap59516-rs29027400	98.78087	94579362	
8	Hapmap50914-BTA-21089	98.8091	94604387	
8	Hapmap60096-rs29025529	98.86069	94650099	
8	BTB-01734135	98.92631	94708244	
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8	Hapmap42689-BTA-82250	99.04183	94810609	
8	BTB-00366459	99.06786	94833671	
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8	BTB-00366836	99.22578	94973599	
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8	BTB-00366966	99.32088	95057877	
8	BTB-00366976	99.35182	95085291	
8	BTB-01354175	99.3905	95119569	
8	BTB-01354201	99.43324	95157430	
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8	BTB-01266196	99.81779	95498189	
8	ARS-BFGL-NGS-101333	99.89172	95563701	
8	BTB-01266301	99.93668	95603538	
8	ARS-BFGL-NGS-65636	99.96181	95625807	
8	BTB-01266363	100.0219	95679227	
8	BTB-01266418	100.05	95704297	
8	ARS-BFGL-NGS-61793	100.0895	95739431	
8	BTB-01518929	100.5078	96108670	
8	BTB-01620899	100.5809	96166978	
8	ARS-BFGL-NGS-109757	100.6212	96199051	
8	ARS-BFGL-NGS-112165	100.6712	96238914	
8	BTB-00367562	100.706	96266647	
8	ARS-BFGL-NGS-113098	100.7405	96294159	
8	ARS-BFGL-NGS-14436	100.778	96324054	
8	BTA-82304-no-rs	100.8315	96366646	
8	Hapmap38440-BTA-82296	100.8582	96387986	
8	BTB-01957921	100.9021	96422953	
8	Hapmap41365-BTA-82290	100.9592	96468448	
8	BTB-00367351	100.9972	96498706	
8	BTA-82272-no-rs	101.1177	96594716	
8	BTB-01877956	101.1478	96618737	
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8	Hapmap47520-BTA-117879	101.2651	96712245	
8	BTB-01729666	101.3045	96743576	
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8	BTB-01771776	101.4291	96878869	
8	BTB-01435179	101.5089	96991143	
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8	BTB-01067452	101.637	97171228	
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8	ARS-BFGL-NGS-117570	101.7201	97288061	
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8	Hapmap48991-BTA-102596	102.017	97543154	
8	Hapmap35095-BES4_Contig483_787		102.2052	97684074
8	ARS-BFGL-NGS-23360	102.2499	97717526	
8	ARS-BFGL-NGS-110090	102.3456	97789154	
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8	Hapmap61015-rs29013523	102.4473	97865326	
8	BTB-01066874	102.5511	97943027	
8	ARS-BFGL-NGS-101099	102.6137	97989837	
8	BTB-01066786	102.6523	98018790	
8	BTB-01066700	102.7028	98056575	
8	Hapmap26439-BTA-153023	102.7573	98097345	
8	ARS-BFGL-NGS-97584	102.8622	98175894	
8	Hapmap40882-BTA-109620	102.905	98207923	
8	Hapmap42398-BTA-101913	103.0272	98299383	
8	ARS-BFGL-NGS-57927	103.0837	98341700	
8	Hapmap40865-BTA-100699	103.2247	98447210	

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8	ARS-BFGL-NGS-101347	103.309	98510383
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8	ARS-BFGL-NGS-64370	103.3698	98555826
8	ARS-BFGL-NGS-90460	103.4495	98615555
8	BTA-100692-no-rs	103.5015	98654460
8	Hapmap26624-BTA-100690	103.5658	98702541
8	ARS-BFGL-NGS-24293	103.6242	98746331
8	ARS-BFGL-NGS-119329	103.7107	98811029
8	Hapmap38716-BTA-100681	103.7781	98861495
8	ARS-BFGL-NGS-17358	103.8049	98881581
8	ARS-BFGL-NGS-115812	103.9196	98967406
8	ARS-BFGL-NGS-31066	103.9782	99011307
8	Hapmap49504-BTA-16110	104.0319	99051520
8	BTA-108253-no-rs	104.1483	99138604
8	ARS-BFGL-NGS-24280	104.1993	99176833
8	ARS-BFGL-NGS-117572	104.2416	99208459
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8	ARS-BFGL-NGS-73870	104.3258	99407829
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8	ARS-BFGL-NGS-62892	104.3635	99484529
8	BTB-00371641	104.3847	99527627
8	BTB-01718952	104.4851	99731858
8	Hapmap55431-rs29009604	104.5116	99785679
8	Hapmap50182-BTA-100796	104.5207	99804172
8	Hapmap48987-BTA-100795	104.5426	99848718
8	BTB-01525081	104.5553	99874540
8	ARS-BFGL-NGS-111632	104.5674	99899289
8	BTB-01210282	104.5864	99937935
8	Hapmap58894-rs29013940	104.5962	99957737
8	Hapmap48607-BTA-110989	104.6323	100031298
8	BTB-01210331	104.6472	100061670
8	ARS-BFGL-NGS-15884	104.6708	100109540
8	Hapmap42807-BTA-110986	104.702	100173145
8	ARS-BFGL-NGS-82245	104.7214	100212498
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8	BTA-108157-no-rs	104.8224	100418054
8	ARS-BFGL-NGS-115626	104.8457	100465444
8	BTB-01192786	104.8681	100510939
8	ARS-BFGL-NGS-79358	104.8813	100537840
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8	ARS-BFGL-NGS-22161	104.9268	100630361
8	BTB-01193015	104.9473	100671975
8	ARS-BFGL-NGS-34041	104.966	100710117
8	ARS-BFGL-NGS-34028	105.0309	100873051
8	BTA-85728-no-rs	105.0415	100901113
8	BTB-01377659	105.0533	100932178
8	Hapmap58471-rs29026091	105.0665	100967241
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8	ARS-BFGL-NGS-64084	105.1303	101135756
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8	ARS-BFGL-NGS-111788	105.1665	101231366
8	ARS-BFGL-NGS-99031	105.1743	101251865
8	ARS-BFGL-NGS-28597	105.1821	101272702
8	ARS-BFGL-NGS-116489	105.2076	101339903
8	ARS-BFGL-NGS-40847	105.22	101372832
8	ARS-BFGL-NGS-109827	105.2322	101404929
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8	BTA-107369-no-rs	106.0621	101683774	
8	BTB-00371115	106.4055	101796474	
8	Hapmap32826-BTA-146153	106.9219	101965924	
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8	Hapmap30835-BTA-146159	107.3431	102104126	
8	BTB-00371898	107.4011	102123125	
8	BTB-00371934	107.4852	102150739	
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8	BTB-00372041	107.734	102270686	
8	Hapmap39782-BTA-82614	107.8533	102337690	
8	BTB-00372235	107.8962	102361784	
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8	ARS-BFGL-NGS-116415	108.5487	102694365	
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8	Hapmap31443-BTA-146174	108.6614	102751575	
8	BTB-00372642	108.7109	102776706	
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8	BTB-01624308	108.8727	102858846	
8	BTB-01624352	108.9379	102891951	
8	BTB-00370956	108.9935	102920161	
8	BTA-82554-no-rs	109.0546	102951187	
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8	BTA-82640-no-rs	109.3668	103109649	
8	Hapmap55441-rs29010990	109.4209	103137122	
8	ARS-BFGL-NGS-40447	109.5213	103188091	
8	Hapmap40823-BTA-86437	109.5873	103221633	
8	ARS-BFGL-NGS-103223	109.6986	103278121	
8	BTA-86433-no-rs	109.7516	103305018	
8	Hapmap41664-BTA-86429	109.8449	103352395	
8	Hapmap38860-BTA-86439	109.9506	103406058	
8	Hapmap59067-rs29016547	110.105	103484427	
8	Hapmap32842-BTA-151355	110.1878	103526477	
8	Hapmap34478-BES10_Contig614_291	110.3532	103610418	
8	Hapmap42019-BTA-97664	110.4252	103650209	
8	ARS-BFGL-NGS-24915	110.4705	103679033	
8	Hapmap46882-BTA-82641	110.542	103724440	
8	Hapmap39689-BTA-82645	110.6059	103766102	
8	ARS-BFGL-NGS-42404	110.8209	103941108	
8	BTA-82403-no-rs	110.9071	104011184	
8	BTB-00370058	110.9629	104056597	
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8	Hapmap40625-BTA-06412	111.1639	104220117	
8	Hapmap43119-BTA-07287	111.2289	104273040	
8	ARS-BFGL-NGS-103332	111.3119	104340545	
8	Hapmap57802-rs29009571	111.3653	104383991	
8	ARS-BFGL-NGS-62416	111.4888	104484489	
8	ARS-BFGL-NGS-106906	111.5294	104517516	
8	BTB-00369009	111.5965	104572171	
8	ARS-BFGL-NGS-79979	111.6305	104599805	
8	ARS-BFGL-NGS-107776	111.6571	104621424	

8	Hapmap42693-BTA-82654	111.7556	104701604	
8	Hapmap39690-BTA-82650	111.9128	104829510	
8	BTA-82649-no-rs	111.9537	104862806	
8	ARS-BFGL-NGS-115630	112.0488	104971314	
8	ARS-BFGL-NGS-96951	112.0631	105033919	
8	ARS-BFGL-NGS-64795	112.0838	105124888	
8	ARS-BFGL-NGS-2393	112.1	105195851	
8	Hapmap35194-BES2_Contig467_1067	112.1111	105244069	
8	ARS-BFGL-NGS-25966	112.1262	105310237	
8	ARS-BFGL-NGS-109887	112.1341	105345136	
8	BTA-82010-no-rs	112.1848	105566761	
8	BTB-01401013	112.2141	105695288	
8	ARS-BFGL-NGS-60416	112.2291	105760927	
8	BTB-00361501	112.2419	105816915	
8	ARS-BFGL-NGS-2653	112.2486	105846031	
8	BTB-00361288	112.2549	105873760	
8	Hapmap59976-rs29022169	112.2604	105898019	
8	BTB-01953376	112.2694	105937356	
8	BTB-01972512	112.275	105946838	
8	ARS-BFGL-NGS-18052	112.2921	105970153	
8	BTB-00373508	112.3134	105999334	
8	ARS-BFGL-NGS-100395	112.332	106024730	
8	Hapmap48639-BTA-119287	112.3467	106044814	
8	ARS-BFGL-NGS-114741	112.3945	106110117	
8	ARS-USMARC-Parent-DQ674265-rs29011266	112.4421	106174871	
8	Hapmap36391-SCAFFOLD165033_11046	112.4421	106174871	
8	ARS-BFGL-NGS-37570	112.4595	106196262	
8	BTB-01257214	112.48	106221540	
8	ARS-BFGL-NGS-108107	112.4995	106245419	
8	ARS-BFGL-NGS-39754	112.5146	106264025	
8	BTB-01257450	112.5371	106291686	
8	Hapmap48243-BTA-19814	112.5846	106349950	
8	Hapmap52716-rs29022784	112.6201	106393609	
8	ARS-BFGL-NGS-92736	112.6658	106480778	
8	ARS-BFGL-NGS-69431	112.7173	106577108	
8	BTB-01115612	112.7358	106611663	
8	Hapmap27876-BTA-147931	112.7555	106648392	
8	BTB-01115580	112.7718	106678923	
8	BTB-01115535	112.7935	106719449	
8	BTB-01115500	112.8083	106747092	
8	Hapmap48509-BTA-88121	112.8283	106784491	
8	Hapmap57719-rs29018611	112.8462	106817894	
8	BTA-88113-no-rs	112.8658	106854431	
8	Hapmap41996-BTA-88124	112.8981	106914734	
8	BTA-07702-no-rs	113.0226	107147441	
8	BTB-00374060	113.0403	107180392	
8	ARS-BFGL-NGS-65263	113.0739	107243184	
8	ARS-BFGL-NGS-77930	113.0895	107272311	
8	ARS-BFGL-NGS-28062	113.1174	107324529	
8	ARS-BFGL-NGS-119237	113.1433	107372892	
8	ARS-BFGL-NGS-96026	113.1827	107446564	
8	ARS-BFGL-NGS-100774	113.2058	107489681	
8	ARS-BFGL-NGS-113615	113.2376	107549097	
8	Hapmap53668-rs29025196	113.2579	107586918	
8	BTA-82677-no-rs	113.2774	107623390	
8	ARS-BFGL-NGS-12138	113.3484	107756015	
8	Hapmap40677-BTA-121871	113.3834	107821440	
8	ARS-BFGL-NGS-84974	113.4151	107880717	
8	ARS-BFGL-NGS-20859	113.4612	107982568	

8	ARS-BFGL-NGS-42756	113.4934	108055243	
8	BTA-82736-no-rs	113.5665	108219813	
8	ARS-BFGL-NGS-64593	113.5832	108257394	
8	Hapmap50793-BTA-82756	113.5968	108288140	
8	ARS-BFGL-NGS-99489	113.6392	108343690	
8	ARS-BFGL-NGS-55718	113.6784	108392162	
8	BTA-82766-no-rs	113.7152	108437689	
8	ARS-BFGL-NGS-92182	113.7854	108524455	
8	ARS-BFGL-NGS-69187	113.8112	108556349	
8	Hapmap47869-BTA-121872	113.8554	108611005	
8	BTA-82770-no-rs	113.8893	108652993	
8	BTB-01859180	113.9296	108702754	
8	BTA-82769-no-rs	113.9536	108732464	
8	BTB-01944037	113.986	108772548	
8	BTB-00375253	114.0451	108845583	
8	ARS-BFGL-NGS-31455	114.0639	108868929	
8	ARS-BFGL-NGS-18271	114.118	108935730	
8	ARS-BFGL-NGS-41550	114.1771	109008801	
8	Hapmap59395-rs29023511	114.218	109059409	
8	Hapmap57174-rs29021038	114.2605	109112032	
8	Hapmap44144-BTA-82780	114.3468	109218761	
8	ARS-BFGL-NGS-884	114.3768	109255788	
8	BTB-00374802	114.405	109290614	
8	Hapmap49333-BTA-82773	114.4299	109321402	
8	BTB-00374752	114.451	109347548	
8	BTB-01515859	114.5495	109469302	
8	BTB-01515798	114.6193	109555661	
8	Hapmap33998-BES10_Contig543_926		114.6964	109651024
8	ARS-BFGL-NGS-90246	114.7195	109679615	
8	ARS-BFGL-NGS-75800	114.7396	109704376	
8	BTA-100899-no-rs	114.7665	109737722	
8	ARS-BFGL-NGS-63309	114.8292	109815182	
8	Hapmap43068-BTA-82789	114.8466	109836761	
8	BTA-72323-no-rs	114.9719	109991606	
8	BTB-00431649	114.9913	110015684	
8	BTB-00431734	115.0132	110042671	
8	Hapmap52007-BTA-82795	115.169	110235373	
8	ARS-BFGL-NGS-44670	115.227	110307120	
8	Hapmap55307-rs29018745	115.2819	110374988	
8	Hapmap48909-BTA-82799	115.3188	110420651	
8	ARS-BFGL-NGS-31147	115.3471	110455623	
8	BTB-00375542	115.392	110543983	
8	ARS-BFGL-NGS-2204	115.3989	110571862	
8	ARS-BFGL-NGS-33591	115.4601	110815784	
8	ARS-BFGL-NGS-118657	115.4711	110859506	
8	Hapmap49395-BTA-98771	115.4811	110899315	
8	Hapmap28864-BTA-151784	115.4867	110921940	
8	BTA-82818-no-rs	115.4955	110956734	
8	BTB-00375838	115.5089	111010460	
8	BTA-82821-no-rs	115.5204	111056281	
8	BTB-00375869	115.5289	111089966	
8	BTA-82825-no-rs	115.5367	111121260	
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8	ARS-BFGL-NGS-22801	115.5567	111200914	
8	ARS-BFGL-NGS-111387	115.5852	111314594	
8	BTB-01638020	115.5928	111344953	
8	ARS-BFGL-NGS-36146	115.6013	111378801	
8	Hapmap47110-BTA-82837	115.6066	111399634	
8	Hapmap33843-BES9_Contig546_2551		115.6237	111468003

8	BTA-98843-no-rs	115.674	111668506	
8	ARS-BFGL-NGS-107898	115.6797	111691426	
8	ARS-BFGL-NGS-92824	115.6854	111713971	
8	Hapmap45328-BTA-98830	115.6991	111768601	
8	ARS-BFGL-NGS-116985	115.7042	111789086	
8	ARS-BFGL-NGS-7798	115.7145	111830097	
8	ARS-BFGL-NGS-13369	115.7266	111878365	
8	ARS-BFGL-NGS-6565	115.7344	111909496	
8	BTB-00376866	115.7434	111945098	
8	Hapmap35605-SCAFFOLD5002_20230	115.7515	111977376	
8	ARS-BFGL-NGS-102229	115.7623	112020602	
8	ARS-BFGL-NGS-29109	115.7673	112040729	
8	BTB-00376552	115.7789	112086855	
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8	ARS-BFGL-NGS-206	115.7989	112166568	
8	ARS-BFGL-NGS-118898	115.8197	112249642	
8	BTA-82851-no-rs	115.8293	112287843	
8	ARS-BFGL-NGS-14249	115.882	112323763	
8	ARS-BFGL-NGS-97053	115.9164	112345659	
8	BTB-01429089	115.9688	112379137	
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8	BTA-24875-no-rs	116.04	112511876	
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8	ARS-BFGL-NGS-22787	116.04	112613501	
8	ARS-BFGL-NGS-97302	116.04	112673132	
8	BTB-01377157	116.04	112758017	
8	ARS-BFGL-NGS-32919	116.04	112797372	
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8	ARS-BFGL-NGS-115983	116.04	112888559	
8	ARS-BFGL-NGS-25780	116.04	112941305	
8	ARS-BFGL-NGS-102553	116.04	112966306	
8	ARS-BFGL-NGS-107896	116.04	113012644	
8	ARS-BFGL-NGS-117135	116.04	113043285	
8	ARS-BFGL-NGS-72418	116.04	113069687	
8	Hapmap40500-BTA-15603	116.04	113090731	
8	ARS-BFGL-NGS-39759	116.04	113118348	
8	ARS-BFGL-NGS-106379	116.04	113159018	
8	ARS-BFGL-NGS-62571	116.04	113190754	
8	ARS-BFGL-NGS-89567	116.04	113227939	
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8	ARS-BFGL-NGS-104059	116.04	113301368	
8	ARS-BFGL-NGS-26013	116.04	113320764	
9	ARS-BFGL-NGS-110614	0	123525	
9	ARS-BFGL-NGS-32382	0	594116	
9	BTB-00377605	0.1256539	640228	
9	ARS-BFGL-NGS-118118	0.2133886	670777	
9	Hapmap44660-BTA-85304	0.3132829	705560	
9	BTB-00377669	0.3797279	728696	
9	ARS-BFGL-NGS-49213	0.4835195	764836	
9	ARS-BFGL-NGS-79944	0.6449966	821062	
9	Hapmap38580-BTA-122605	0.9262334	918988	
9	BTB-01126890	1.037791	957832	
9	BTA-03165-rs29010931	1.171338	1004333	
9	ARS-BFGL-NGS-38322	1.264777	1036868	
9	BTB-01126874	1.343384	1064239	

9	BTB-01126839	1.543983	1134087	
9	ARS-BFGL-NGS-115573	1.64218	1168279	
9	Hapmap41734-BTA-103209	2.115328	1333028	
9	BTA-103211-no-rs	2.202749	1363468	
9	BTB-01126763	2.560451	1488019	
9	BTB-01957423	2.846332	1587562	
9	BTB-00378287	2.944385	1621704	
9	BTB-00378165	3.049567	1658328	
9	BTB-00377996	3.232534	1722037	
9	Hapmap40061-BTA-28737	3.385178	1775187	
9	BTA-85135-no-rs	3.498398	1814610	
9	BTB-00377933	3.567023	1838505	
9	ARS-BFGL-NGS-104763	3.628126	1859781	
9	BTA-118469-no-rs	3.709548	1888132	
9	BTB-01752812	3.819204	1926314	
9	BTB-02036754	3.89344	1952163	
9	ARS-BFGL-NGS-91989	4.006793	1991632	
9	BTB-00377789	4.169732	2048367	
9	BTB-00377690	4.244982	2074569	
9	BTB-02072771	4.30647	2095979	
9	BTB-01374425	5.050498	2355048	
9	BTB-01385425	5.278398	2434402	
9	BTB-01385449	5.358894	2462431	
9	BTB-01385470	5.426457	2485956	
9	BTA-93433-no-rs	5.699747	2581115	
9	Hapmap38946-BTA-23689	5.862649	2637837	
9	ARS-BFGL-NGS-104062	5.9758	2677236	
9	UA-IFASA-5710	6.12217	2728202	
9	BTB-01573029	6.222303	2763068	
9	BTB-01572896	6.270716	2779925	
9	BTB-01572866	6.304872	2791818	
9	BTB-00378604	6.523046	2867786	
9	ARS-BFGL-NGS-47633	6.633667	2911150	
9	ARS-BFGL-NGS-29404	6.667553	2934964	
9	BTB-00378581	6.733881	2981577	
9	BTB-00378544	6.80252	3029814	
9	BTB-00378513	6.839927	3056102	
9	BTB-00378413	6.92408	3115242	
9	ARS-BFGL-NGS-22429	6.986018	3158770	
9	Hapmap36664-SCAFFOLD50340_7682	7.058506	3209712	
9	BTB-01697970	7.141033	3267709	
9	BTB-01917058	7.239985	3337249	
9	ARS-BFGL-NGS-8193	7.464912	3495320	
9	ARS-BFGL-NGS-84617	7.506818	3524770	
9	ARS-BFGL-NGS-26056	7.687084	3651455	
9	ARS-BFGL-NGS-20967	7.721437	3675597	
9	Hapmap33371-BTA-147485	7.847956	3764510	
9	BTA-86675-no-rs	8.101739	3971122	
9	BTA-18498-no-rs	8.106421	4050528	
9	BTA-83392-no-rs	8.996378	4130601	
9	Hapmap49335-BTA-83363	9.156139	4199056	
9	Hapmap32419-BTA-83359	9.182679	4210428	
9	BTA-94256-no-rs	9.250528	4239500	
9	Hapmap44492-BTA-88469	9.430641	4283263	
9	Hapmap48549-BTA-99373	9.973135	4386831	
9	BTB-01487164	10.44219	4476378	
9	BTB-01487290	10.81731	4547993	
9	BTA-97336-no-rs	10.99516	4581947	
9	ARS-BFGL-NGS-30289	11.16841	4615023	

9	ARS-BFGL-NGS-13958	11.3322	4648486
9	ARS-BFGL-NGS-74232	11.53276	4693848
9	BTB-01991280	11.78001	4749770
9	BTB-01696182	12.10588	4838073
9	BTB-00379161	12.33843	5021874
9	BTB-00379127	12.36779	5045079
9	BTB-00379107	12.38307	5057159
9	BTB-00379074	12.41185	5079903
9	BTA-83564-no-rs	12.49839	5148301
9	BTA-83549-no-rs	12.54946	5188669
9	BTA-07262-rs29026928	12.6004	5228930
9	BTB-00378748	12.62833	5251004
9	BTB-01504012	12.69558	5310520
9	Hapmap27763-BTA-151852	12.78248	5394763
9	BTA-12989-no-rs	12.85582	5465850
9	BTB-01800430	13.02736	5632136
9	BTB-01800374	13.04991	5653994
9	Hapmap31176-BTA-158553	13.07278	5676158
9	ARS-BFGL-NGS-102706	13.146	5747133
9	BTB-01517183	13.30575	5901981
9	BTB-01517292	13.32781	5923370
9	Hapmap29031-BTA-149529	13.35508	5949799
9	ARS-BFGL-NGS-105604	13.38793	5981648
9	Hapmap51352-BTA-92496	13.46982	6061022
9	BTB-01427837	13.52108	6110712
9	Hapmap51346-BTA-89239	13.6522	6237818
9	BTB-01405916	13.67728	6262126
9	ARS-BFGL-NGS-101319	13.71543	6299106
9	ARS-BFGL-NGS-35259	13.75353	6336040
9	ARS-BFGL-NGS-28614	13.78625	6367757
9	BTB-01181264	13.80839	6389214
9	ARS-BFGL-NGS-49079	13.99943	6574398
9	ARS-BFGL-NGS-103775	14.17461	6744202
9	Hapmap39122-BTA-91625	14.25359	6820766
9	Hapmap55055-rs29018260	14.27956	6845938
9	Hapmap38446-BTA-91621	14.39037	6877256
9	ARS-BFGL-NGS-57259	14.59057	6933291
9	ARS-BFGL-NGS-104096	14.86544	7010227
9	ARS-BFGL-NGS-28415	15.69087	7241264
9	ARS-BFGL-NGS-40446	16.72794	7602607
9	ARS-BFGL-NGS-29759	16.84748	7645969
9	ARS-BFGL-NGS-45135	17.12298	7745901
9	ARS-BFGL-NGS-19735	17.70063	7992599
9	ARS-BFGL-NGS-87203	18.02296	8161026
9	ARS-BFGL-NGS-26037	18.08352	8189195
9	Hapmap51197-BTA-25294	18.20444	8245432
9	BTA-25293-no-rs	18.24755	8265484
9	BTA-25295-no-rs	18.3295	8303600
9	Hapmap38146-BTA-25285	18.3853	8329551
9	BTA-83714-no-rs	18.44142	8355654
9	Hapmap43790-BTA-121886	18.59114	8425284
9	ARS-BFGL-NGS-2084	18.68064	8466913
9	ARS-BFGL-NGS-115110	18.79654	8520816
9	ARS-BFGL-NGS-111265	18.85446	8547755
9	ARS-BFGL-NGS-34350	19.00158	8616179
9	BTA-83825-no-rs	19.06556	8645936
9	Hapmap11707-BTA-83854	19.11457	8668733
9	ARS-BFGL-NGS-106714	19.22611	8720608
9	BTA-83934-no-rs	19.2779	8744696

9	ARS-BFGL-NGS-85367	19.42957	8815237	
9	ARS-BFGL-NGS-26285	19.52268	8858542	
9	BTA-83978-no-rs	19.6254	8906316	
9	ARS-BFGL-NGS-72307	19.68489	8933985	
9	ARS-BFGL-NGS-113730	19.7309	8955384	
9	ARS-BFGL-NGS-114374	19.82128	8997419	
9	ARS-BFGL-NGS-117804	19.86595	9018195	
9	BTA-84044-no-rs	20.22498	9185180	
9	Hapmap38916-BTA-84073	20.62806	9372653	
9	UA-IFASA-2626	20.67869	9396200	
9	ARS-BFGL-NGS-77146	20.74805	9428460	
9	ARS-BFGL-NGS-100620	20.93981	9517646	
9	Hapmap57776-rs29013550	21.02083	9555330	
9	ARS-BFGL-NGS-85616	21.58005	9815418	
9	ARS-BFGL-NGS-5339	21.68253	9863084	
9	ARS-BFGL-NGS-110800	21.76887	9903240	
9	Hapmap41153-BTA-110528	22.26562	10134275	
9	ARS-BFGL-NGS-15799	22.3643	10180171	
9	ARS-BFGL-NGS-57285	22.71471	10343145	
9	ARS-BFGL-NGS-37889	22.77434	10370879	
9	ARS-BFGL-NGS-64801	22.87189	10416250	
9	ARS-BFGL-NGS-93995	22.9524	10453697	
9	ARS-BFGL-NGS-15511	23.03541	10492302	
9	BTA-83229-no-rs	23.20225	10569900	
9	ARS-BFGL-NGS-110691	23.45043	10726411	
9	Hapmap36170-SCAFFOLD200128_32745		23.51149	10765698
9	ARS-BFGL-NGS-10202	23.62427	10838261	
9	Hapmap38633-BTA-83140	23.65639	10858927	
9	BTA-03986-rs29011742	24.0155	11008498	
9	BTA-28590-no-rs	24.46023	11178996	
9	ARS-BFGL-NGS-14697	24.55805	11263819	
9	BTA-28596-no-rs	24.58642	11288423	
9	ARS-BFGL-NGS-16023	24.70466	11390953	
9	BTA-93295-no-rs	25.05878	11698024	
9	ARS-BFGL-NGS-26204	25.09944	11733281	
9	Hapmap40031-BTA-93288	25.21715	11835351	
9	ARS-BFGL-NGS-5070	25.28023	11890046	
9	Hapmap49802-BTA-93290	25.33483	11937392	
9	BTB-01181673	25.37488	11972126	
9	Hapmap58210-rs29015574	25.4563	12042726	
9	BTA-105963-no-rs	25.48143	12064517	
9	BTB-00379889	25.53702	12112722	
9	BTA-84589-no-rs	25.58613	12155305	
9	ARS-BFGL-NGS-57235	25.67739	12234440	
9	ARS-BFGL-NGS-115296	25.71831	12269923	
9	Hapmap27414-BTA-146260	25.77263	12317031	
9	Hapmap48495-BTA-84685	25.90957	12435776	
9	ARS-BFGL-NGS-113087	25.98823	12503984	
9	BTA-84727-no-rs	26.01195	12524552	
9	Hapmap60175-rs29026961	26.04285	12551343	
9	BTA-84773-no-rs	26.13601	12632125	
9	ARS-BFGL-NGS-59162	26.22252	12707144	
9	Hapmap44300-BTA-84850	26.2878	12763747	
9	ARS-BFGL-NGS-35837	26.37231	12837033	
9	ARS-BFGL-NGS-24145	26.39902	12860193	
9	ARS-BFGL-NGS-82987	26.91722	13141454	
9	ARS-BFGL-NGS-101844	27.01915	13292880	
9	ARS-BFGL-NGS-10298	27.10921	13418475	
9	ARS-BFGL-NGS-35138	27.25116	13502951	

9	ARS-BFGL-NGS-80422	27.46572	13630638	
9	BTB-01365157	27.68987	13764034	
9	ARS-BFGL-NGS-73513	27.76148	13806650	
9	ARS-BFGL-NGS-31200	27.80984	13835430	
9	BTA-115251-no-rs	27.99431	13945212	
9	ARS-BFGL-NGS-21226	28.02967	13966255	
9	BTB-01644235	28.12122	14020737	
9	BTB-01644216	28.18162	14056685	
9	ARS-BFGL-NGS-72820	28.24078	14091890	
9	BTB-01233331	28.30861	14132257	
9	BTB-01233147	28.4132	14194506	
9	BTA-91270-no-rs	28.45031	14216589	
9	BTB-01715634	29.48051	14308744	
9	Hapmap33826-BES2_Contig266_1111	30.15681	14340570	
9	BTB-01828457	30.4019	14407679	
9	ARS-BFGL-NGS-14740	30.47699	14436985	
9	BTB-01653669	30.61145	14489468	
9	BTA-87129-no-rs	30.67248	14513289	
9	BTA-86284-no-rs	30.72991	14535706	
9	BTB-01756385	31.00334	14642429	
9	BTB-01756422	31.10825	14683379	
9	ARS-BFGL-NGS-117900	31.26773	14745626	
9	BTB-00381928	31.32477	14767890	
9	BTB-00381859	31.43447	14817532	
9	UA-IFASA-5793	31.60429	14917436	
9	BTB-00381706	31.63639	14936316	
9	BTA-85289-no-rs	31.67957	14961721	
9	ARS-BFGL-NGS-74565	31.72624	14989177	
9	ARS-BFGL-NGS-42721	31.79469	15029445	
9	ARS-BFGL-NGS-116690	31.93312	15110882	
9	ARS-BFGL-NGS-116510	32.12547	15224033	
9	ARS-BFGL-NGS-39643	32.20224	15269197	
9	Hapmap27634-BTA-158717	32.27616	15312685	
9	ARS-BFGL-NGS-1357	32.32354	15340558	
9	ARS-BFGL-NGS-14739	32.45391	15417248	
9	BTB-01576268	32.49334	15440446	
9	Hapmap54560-rs29009707	32.53637	15465760	
9	BTB-00380240	32.68615	15553873	
9	Hapmap28752-BTA-146270	32.79667	15618892	
9	Hapmap44930-BTA-109958	32.83356	15640590	
9	ARS-BFGL-NGS-105703	32.88863	15672990	
9	Hapmap57341-rs29010513	33.04867	15767136	
9	BTB-00380322	33.10889	15802561	
9	BTB-00380334	33.14002	15820879	
9	UA-IFASA-5778	33.23433	15876356	
9	BTB-00380633	33.38752	15966478	
9	Hapmap54831-rs29027235	33.43085	15991964	
9	BTB-00380751	33.48436	16023448	
9	BTB-00380899	33.52433	16046958	
9	ARS-BFGL-NGS-58241	33.56	16070824	
9	BTB-01407863	33.56	16119778	
9	BTB-01407900	33.61082	16142291	
9	BTA-91769-no-rs	33.77388	16177638	
9	Hapmap33482-BTA-138844	33.83654	16191221	
9	BTB-00932823	33.88507	16201743	
9	Hapmap49346-BTA-85236	34.02149	16231315	
9	BTB-01407982	34.25024	16280902	
9	ARS-BFGL-NGS-26226	34.53325	16342252	
9	INRA-614	34.84723	16414903	



9	ARS-BFGL-NGS-13737	35.02257	16564251
9	ARS-BFGL-NGS-70421	35.03298	16573115
9	BTB-01632577	35.0808	16613842
9	BTB-01842145	35.13379	16658980
9	BTB-02052278	35.26187	16768069
9	BTB-01874104	35.30139	16801734
9	Hapmap25309-BTA-153368	35.34042	16834975
9	BTB-01556111	35.37103	16861043
9	BTB-01556197	35.40797	16892513
9	BTB-01612185	35.45415	16931842
9	BTB-01612195	35.47816	16952295
9	BTB-00381290	35.54242	17007030
9	BTA-85264-no-rs	35.57653	17036083
9	ARS-BFGL-NGS-95470	35.61459	17068501
9	ARS-BFGL-NGS-46439	35.81919	17242764
9	ARS-BFGL-NGS-15012	35.88437	17298279
9	BTA-85259-no-rs	35.98744	17386067
9	ARS-BFGL-NGS-36670	36.25098	17610541
9	Hapmap53320-rs29018912	36.34059	17726910
9	Hapmap50274-BTA-18417	36.40568	17814688
9	Hapmap46780-BTA-18414	36.44254	17864398
9	Hapmap44430-BTA-94402	36.51591	17963354
9	BTA-115038-no-rs	36.54954	18008701
9	Hapmap47187-BTA-115042	36.57747	18046372
9	ARS-BFGL-NGS-45684	36.78293	18291643
9	ARS-BFGL-NGS-78782	36.87594	18327205
9	Hapmap44304-BTA-87076	36.99471	18372617
9	Hapmap43410-BTA-94414	37.12745	18423364
9	Hapmap46542-BTA-94412	38.08769	18790503
9	Hapmap43732-BTA-94409	38.19318	18830838
9	BTA-94407-no-rs	38.27629	18862613
9	ARS-BFGL-NGS-104719	38.51925	18955509
9	Hapmap42110-BTA-122117	38.64989	19005457
9	ARS-BFGL-NGS-115705	38.74212	19040720
9	ARS-BFGL-NGS-46104	38.88523	19095437
9	ARS-BFGL-NGS-14391	38.94139	19116906
9	ARS-BFGL-NGS-1750	39.34139	19269845
9	ARS-BFGL-NGS-70461	39.46748	19318054
9	ARS-BFGL-NGS-15193	39.77798	19436768
9	Hapmap48666-BTA-16236	39.88034	19475905
9	ARS-BFGL-NGS-20366	39.94086	19499043
9	UA-IFASA-1686	40.22	19649248
9	BTA-115573-no-rs	40.27806	19702063
9	Hapmap47550-BTA-25655	40.40805	19774304
9	Hapmap50840-BTA-99449	40.59234	19876712
9	BTA-99448-no-rs	40.6272	19896087
9	ARS-BFGL-NGS-17690	40.70166	19937462
9	BTA-85309-no-rs	40.97395	20088776
9	ARS-BFGL-NGS-98828	41.02651	20117983
9	Hapmap58910-rs29012613	41.12325	20171743
9	ARS-BFGL-NGS-60161	41.2592	20247290
9	ARS-BFGL-NGS-108555	41.3632	20305087
9	Hapmap25659-BTA-94623	41.43974	20347622
9	BTA-85319-no-rs	41.44588	20356212
9	ARS-BFGL-NGS-114393	41.50868	20446443
9	BTA-19490-no-rs	41.58681	20558713
9	Hapmap43805-BTA-19491	41.6075	20588432
9	BTB-00382415	41.64734	20645676
9	BTB-01678771	41.70911	20734430

9	Hapmap27670-BTA-83067	41.81329	20884113
9	BTB-01990582	41.85037	20937396
9	BTB-01921442	41.85952	20950546
9	BTB-01964666	41.91534	21030751
9	BTA-86792-no-rs	41.93508	21059107
9	ARS-BFGL-BAC-35400	42.00889	21165167
9	BTB-01094964	42.07772	21264060
9	BTB-01095008	42.09531	21289328
9	BTA-20861-no-rs	42.13051	21339912
9	Hapmap42868-BTA-20866	42.18635	21420138
9	BTB-01095154	42.23497	21490009
9	BTB-01095261	42.31275	21601758
9	BTB-01714079	42.39338	21652331
9	Hapmap40657-BTA-115707	42.50731	21698685
9	ARS-BFGL-BAC-35397	42.59644	21734950
9	ARS-BFGL-NGS-5648	42.70866	21780613
9	BTB-01985049	42.82372	21827423
9	BTB-00384592	42.92673	21869336
9	BTB-00384566	43.04073	21915719
9	Hapmap51501-BTA-83079	43.39311	22059097
9	BTB-00384442	43.44287	22096200
9	BTB-00384311	43.4971	22158096
9	BTB-00384287	43.51603	22179702
9	BTB-00382945	43.53529	22201684
9	BTB-00382893	43.55433	22223425
9	Hapmap43708-BTA-85337	43.60492	22281170
9	Hapmap44149-BTA-85336	43.62704	22306417
9	ARS-BFGL-NGS-55693	43.68093	22367935
9	ARS-BFGL-NGS-14741	43.70608	22396640
9	BTB-00383082	43.73932	22434577
9	Hapmap38454-BTA-08591	43.77356	22473669
9	ARS-BFGL-NGS-58057	43.84648	22556896
9	BTB-02006729	43.85543	22567113
9	ARS-BFGL-NGS-24453	43.89171	22608528
9	ARS-BFGL-NGS-22602	43.92981	22652013
9	Hapmap42728-BTA-92545	43.9772	22706114
9	BTB-01348232	44.02021	22755204
9	ARS-BFGL-NGS-44792	44.04259	22780745
9	BTA-26796-no-rs	44.0736	22816140
9	ARS-BFGL-NGS-104704	44.0979	22843876
9	BTB-00383268	44.11589	22864414
9	Hapmap52337-rs29022325	44.14037	22892355
9	BTB-00383200	44.16392	22919235
9	Hapmap39044-BTA-85348	44.20082	22961361
9	ARS-BFGL-NGS-61979	44.23611	23001645
9	BTA-85350-no-rs	44.26785	23037864
9	BTB-00383473	44.29562	23069571
9	Hapmap54302-rs29013643	44.36452	23148211
9	BTA-85354-no-rs	44.39701	23185304
9	ARS-BFGL-NGS-55463	44.43146	23224626
9	ARS-BFGL-NGS-119840	44.48544	23286236
9	ARS-BFGL-NGS-74851	44.5173	23322608
9	ARS-BFGL-NGS-108532	44.57882	23392829
9	BTB-01689031	44.64725	23470934
9	Hapmap40261-BTA-113827	44.68832	23517815
9	BTB-00383772	44.70619	23538211
9	BTB-00383781	44.7286	23563789
9	BTA-83045-no-rs	44.76814	23608920
9	ARS-BFGL-NGS-10167	44.78668	23630089

9	ARS-BFGL-NGS-76440	44.81909	23667082	
9	ARS-BFGL-NGS-13711	44.862	23716063	
9	ARS-BFGL-NGS-109816	44.90633	23766667	
9	BTB-01320781	44.92243	23785037	
9	ARS-BFGL-NGS-115008	44.96072	23828744	
9	Hapmap34256-BES9_Contig132_328		44.98408	23855406
9	ARS-BFGL-NGS-113750	45.0122	23887506	
9	Hapmap60820-rs29014647	45.03009	23907934	
9	Hapmap46562-BTA-28711	45.06196	23944303	
9	BTB-01362120	45.18047	24079580	
9	ARS-BFGL-NGS-69657	45.27176	24183775	
9	ARS-BFGL-NGS-4479	45.3494	24272399	
9	BTB-01072640	45.43454	24369582	
9	BTB-01072719	45.48208	24423856	
9	ARS-BFGL-NGS-31500	45.50277	24447463	
9	BTB-01072905	45.70692	24573723	
9	BTB-01072969	45.84534	24623778	
9	BTB-01072997	45.96705	24667792	
9	BTB-01073083	46.27204	24782825	
9	BTB-01716044	46.43204	24875114	
9	BTB-00385217	46.56051	24949214	
9	BTB-00385381	46.58504	24979356	
9	Hapmap59909-rs29013870	46.59985	25034961	
9	ARS-BFGL-NGS-27427	46.60678	25060966	
9	BTB-02020793	46.64001	25185694	
9	Hapmap47111-BTA-83104	46.68621	25359074	
9	BTB-00385685	46.69937	25408468	
9	ARS-BFGL-NGS-70545	46.70562	25431900	
9	BTA-83107-no-rs	46.75501	25459892	
9	BTB-00385823	46.84479	25482899	
9	Hapmap39691-BTA-83109	46.92465	25503367	
9	Hapmap50794-BTA-83112	47.2376	25583572	
9	UA-IFASA-6324	47.49664	25649959	
9	Hapmap53101-rs29017323	47.64452	25687858	
9	BTA-83125-no-rs	47.72296	25707960	
9	ARS-BFGL-NGS-83466	47.90529	25793691	
9	BTB-00386041	47.99432	25852948	
9	BTA-100744-no-rs	48.23034	26009951	
9	Hapmap53373-rs29012689	48.48257	26110323	
9	ARS-BFGL-NGS-79982	48.62786	26179360	
9	Hapmap43070-BTA-83139	48.65078	26202892	
9	ARS-BFGL-NGS-91263	48.70842	26262054	
9	ARS-BFGL-NGS-65224	48.7407	26295194	
9	ARS-BFGL-NGS-65341	48.77647	26331911	
9	ARS-BFGL-NGS-117371	48.79758	26353585	
9	ARS-BFGL-NGS-115754	48.82983	26386695	
9	ARS-BFGL-NGS-116108	48.91567	26474805	
9	Hapmap35889-SCAFFOLD32492_3890		49.07954	26643027
9	ARS-BFGL-NGS-105440	49.11445	26678862	
9	ARS-BFGL-NGS-32323	49.21812	26785284	
9	Hapmap34403-BES10_Contig555_1400		49.2783	26847057
9	ARS-BFGL-NGS-37539	49.38745	26959103	
9	Hapmap31053-BTA-111664	49.44398	27017136	
9	BTA-95805-no-rs	49.52699	27102339	
9	BTB-01468298	49.58882	27165814	
9	BTA-95806-no-rs	49.85822	27272926	
9	BTB-01468196	50.02697	27308839	
9	Hapmap38570-BTA-112517	50.25274	27356886	
9	ARS-BFGL-NGS-44031	50.69321	27450622	

9	BTB-01319772	51.00292	27516531	
9	ARS-BFGL-NGS-118280	51.32486	27585044	
9	Hapmap32811-BTA-140056	51.47221	27616403	
9	Hapmap41922-BTA-63988	51.61148	27684090	
9	BTA-101467-no-rs	51.66995	27716491	
9	BTB-01534273	51.71481	27741354	
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9	BTB-01932422	52.0633	27946591	
9	BTB-01819195	52.09473	27965979	
9	ARS-BFGL-NGS-21973	52.13571	27991255	
9	BTB-01861211	52.17934	28018172	
9	BTB-01861226	52.22095	28043836	
9	BTB-01575668	52.26472	28070840	
9	BTB-01575618	52.32647	28108927	
9	ARS-BFGL-NGS-93119	52.39164	28149131	
9	Hapmap50582-BTA-117173	52.46035	28191512	
9	BTB-01083056	52.49342	28211917	
9	ARS-BFGL-NGS-45002	52.56737	28257531	
9	ARS-BFGL-NGS-39316	52.66059	28315034	
9	ARS-BFGL-NGS-33303	52.69759	28337856	
9	ARS-BFGL-NGS-58796	52.79353	28400169	
9	Hapmap26192-BTA-157960	52.82523	28447812	
9	Hapmap39984-BTA-21408	52.88577	28538817	
9	ARS-BFGL-NGS-103124	52.93791	28617193	
9	ARS-BFGL-NGS-112504	52.95362	28640808	
9	BTB-00386408	52.96786	28662223	
9	ARS-BFGL-NGS-389	52.98248	28684193	
9	BTA-83158-no-rs	53.00173	28713127	
9	DPI-30	53.05264	28836299	
9	ARS-BFGL-NGS-15823	53.06249	28887462	
9	Hapmap23169-BTA-83176	53.06989	28925858	
9	ARS-BFGL-NGS-110238	53.07545	28954785	
9	BTB-01082488	53.07944	28975512	
9	BTB-00386842	53.08337	28995927	
9	BTB-00386854	53.08978	29029183	
9	BTB-00386956	53.0937	29049570	
9	BTB-00386978	53.11296	29149576	
9	BTB-00387033	53.12278	29200566	
9	BTB-00387060	53.13119	29244257	
9	BTB-00387068	53.14046	29292408	
9	Hapmap48938-BTA-90472	53.30453	29676954	
9	BTA-90471-no-rs	53.32426	29698883	
9	BTB-00387552	53.37479	29755031	
9	ARS-BFGL-NGS-26323	53.3991	29782038	
9	Hapmap45223-BTA-86178	53.4621	29852432	
9	ARS-BFGL-NGS-102239	53.48819	29886258	
9	UA-IFASA-6188	53.50726	29910981	
9	BTB-01887905	53.58057	30006014	
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9	BTA-83186-no-rs	53.71166	30175954	
9	Hapmap24843-BTA-146394	53.75327	30229901	
9	BTA-90733-no-rs	53.77908	30263355	
9	Hapmap51503-BTA-83211	53.87234	30398503	
9	BTB-01209657	53.94485	30576191	
9	BTB-01708062	53.95954	30612205	
9	BTB-01708014	53.97043	30638895	
9	BTB-01444248	54.03237	30790689	
9	Hapmap34230-BES4_Contig184_623	54.06911	30879351	
9	BTB-01444539	54.10533	30966432	

9	BTB-01614182	54.13747	31043707
9	BTB-01768682	54.16789	31116835
9	Hapmap51344-BTA-88886	54.27328	31370192
9	BTB-02047616	54.28343	31394607
9	BTB-01218275	54.30959	31457479
9	BTB-01440667	54.31999	31482494
9	BTB-01846303	54.34051	31531815
9	BTA-112797-no-rs	54.38744	31644651
9	BTA-93494-no-rs	54.39765	31669195
9	BTB-01218371	54.42154	31726626
9	ARS-BFGL-NGS-116172	54.43077	31748811
9	BTB-01218452	54.4446	31782062
9	BTA-112805-no-rs	54.45644	31810537
9	BTB-01218518	54.46594	31833368
9	BTB-01218539	54.47525	31855749
9	BTB-01683955	54.51379	31933710
9	ARS-BFGL-NGS-34020	54.54202	31971498
9	BTB-01737039	54.56655	32004342
9	BTB-01736853	54.5817	32024612
9	ARS-BFGL-NGS-106238	54.60045	32049723
9	BTB-01674973	54.67008	32142930
9	BTB-01675002	54.67553	32150229
9	BTB-01632102	54.69106	32171013
9	Hapmap38377-BTA-109065	54.70683	32192120
9	Hapmap24157-BTA-153554	54.82014	32343804
9	ARS-BFGL-NGS-26381	54.88475	32430302
9	ARS-BFGL-NGS-53845	54.90293	32454628
9	Hapmap38180-BTA-83144	54.92535	32484636
9	BTB-00386288	54.97365	32549297
9	BTB-01882599	55.0167	32606924
9	BTA-83149-no-rs	55.05565	32659074
9	ARS-BFGL-NGS-79910	55.08312	32695841
9	ARS-BFGL-NGS-116724	55.10381	32723535
9	Hapmap49089-BTA-23167	55.15735	32795214
9	Hapmap51957-BTA-83206	55.21732	32875485
9	BTB-00387837	55.3022	32989113
9	ARS-BFGL-NGS-68206	55.33164	33028520
9	Hapmap60427-rs29021315	55.38226	33096287
9	BTA-83242-no-rs	55.41479	33139824
9	Hapmap41367-BTA-83244	55.42	33163184
9	BTA-112863-no-rs	55.42	33196236
9	UA-IFASA-814	55.42	33213808
9	BTA-112867-no-rs	55.42	33237149
9	BTA-112869-no-rs	55.42	33261837
9	ARS-BFGL-NGS-98615	55.42	33321976
9	BTB-00388602	55.42	33378478
9	BTB-00388616	55.42	33442358
9	BTA-83267-no-rs	55.42	33466950
9	Hapmap48911-BTA-83268	55.42	33492363
9	Hapmap50795-BTA-83271	55.42	33542049
9	BTA-83274-no-rs	55.45364	33618865
9	BTB-00384802	56.64111	34050782
9	BTB-00384830	56.66171	34076497
9	BTB-00384837	56.68594	34106755
9	BTB-00384847	56.71803	34146832
9	ARS-BFGL-NGS-27063	56.74187	34176604
9	Hapmap27597-BTA-146334	56.75624	34199814
9	BTB-00388348	56.78584	34261736
9	BTB-00388274	56.79766	34286455

9	BTB-00388134	56.8125	34317516
9	BTA-83227-no-rs	56.83394	34362359
9	BTB-00388186	56.84379	34382967
9	BTB-00388155	56.85444	34405240
9	BTB-00388242	56.86462	34426533
9	BTB-00388235	56.87749	34453477
9	BTB-01911582	56.89407	34488147
9	Hapmap25127-BTA-83222	56.97571	34658951
9	ARS-BFGL-NGS-96784	56.98628	34681064
9	ARS-BFGL-NGS-11834	57.00511	34720455
9	BTB-00387942	57.01604	34743324
9	BTA-18520-no-rs	57.02682	34765874
9	BTB-00389036	57.09859	34916015
9	BTB-00389059	57.11152	34943071
9	BTB-00389079	57.12472	34970683
9	BTB-00389092	57.13983	35002290
9	BTB-00389124	57.1564	35036949
9	BTA-83295-no-rs	57.17881	35083835
9	BTB-00389188	57.1913	35109955
9	Hapmap59178-rs29009651	57.20313	35134706
9	Hapmap49334-BTA-83296	57.2286	35187993
9	Hapmap42695-BTA-83298	57.24722	35226942
9	BTB-01843749	57.28894	35314238
9	BTB-01843757	57.30314	35343932
9	Hapmap44270-BTA-67318	57.31466	35368035
9	BTB-00124923	57.32811	35396173
9	BTB-00124963	57.35364	35449575
9	BTB-00389480	57.38581	35516891
9	BTB-01966120	57.40762	35562515
9	BTB-00389746	57.42639	35601778
9	BTB-00113934	57.45888	35669753
9	ARS-BFGL-NGS-4290	57.48862	35731967
9	BTB-02058916	57.55632	35873605
9	BTB-02058917	57.57484	35912328
9	Hapmap30779-BTA-128280	57.59467	35953813
9	BTB-00518052	57.60794	35981595
9	Hapmap49959-BTA-32153	57.61795	36002535
9	BTB-00518033	57.62758	36022671
9	BTB-01290891	57.65137	36072452
9	ARS-BFGL-NGS-16462	57.68341	36139480
9	ARS-BFGL-NGS-115260	57.70832	36191579
9	ARS-BFGL-NGS-36701	57.8	36440319
9	ARS-BFGL-NGS-115580	57.8	36556225
9	ARS-BFGL-NGS-109026	57.8	36578334
9	ARS-BFGL-NGS-10196	57.8	36608760
9	ARS-BFGL-NGS-2259	58.05735	36703840
9	BTA-21753-no-rs	58.31436	36790663
9	ARS-BFGL-NGS-22883	59.26414	36960364
9	BTA-21733-no-rs	59.3267	37036717
9	ARS-BFGL-NGS-4766	59.36349	37081624
9	BTB-01249509	59.47243	37214585
9	ARS-BFGL-NGS-108289	59.4983	37246169
9	BTB-01249515	59.51776	37269912
9	Hapmap42830-BTA-117799	59.53662	37292945
9	ARS-BFGL-NGS-32807	59.58798	37355623
9	ARS-BFGL-NGS-4989	59.60974	37382181
9	BTB-01249963	59.65919	37442535
9	Hapmap54966-rs29014434	59.68003	37467972
9	BTA-94534-no-rs	59.74717	37549926

9	BTB-01451870	59.78294	37593586	
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9	BTB-00957662	59.93839	37783320	
9	BTA-62198-no-rs	59.99977	37858250	
9	BTB-00388729	60.04567	37914265	
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9	Hapmap60126-rs29022845	60.12863	38015521	
9	BTA-83279-no-rs	60.2073	38111543	
9	ARS-BFGL-NGS-40399	60.25202	38166125	
9	Hapmap51935-BTA-17831	60.32288	38252618	
9	ARS-BFGL-NGS-20610	60.40029	38385371	
9	BTA-114812-no-rs	60.42441	38433170	
9	ARS-BFGL-NGS-32966	60.43624	38456609	
9	ARS-BFGL-NGS-63180	60.49604	38575112	
9	ARS-BFGL-NGS-43879	60.52489	38632274	
9	ARS-BFGL-NGS-56093	60.57531	38732171	
9	ARS-BFGL-NGS-58120	60.59425	38769703	
9	Hapmap29482-BTA-146449	60.61189	38804655	
9	BTA-06997-rs29021351	60.62369	38828043	
9	ARS-BFGL-NGS-15308	60.67927	38938171	
9	Hapmap48912-BTA-83311	60.70686	38992847	
9	ARS-BFGL-NGS-17236	60.73098	39040657	
9	BTA-83317-no-rs	60.74488	39068194	
9	Hapmap47527-BTA-121897	60.76062	39099376	
9	ARS-BFGL-NGS-27841	60.79472	39166940	
9	ARS-BFGL-NGS-112742	60.80485	39187022	
9	ARS-BFGL-NGS-118865	60.86724	39310652	
9	ARS-BFGL-NGS-44162	61.02656	39626344	
9	Hapmap50122-BTA-83335	61.05778	39688215	
9	ARS-BFGL-NGS-75693	61.10378	39779363	
9	Hapmap45687-BTA-83338	61.1223	39816061	
9	Hapmap59361-rs29017977	61.25986	40088647	
9	BTA-83341-no-rs	61.27382	40116301	
9	BTA-83342-no-rs	61.28326	40135009	
9	ARS-BFGL-NGS-42246	61.298	40164227	
9	ARS-BFGL-NGS-102349	61.31865	40205144	
9	ARS-BFGL-NGS-10254	61.3447	40256749	
9	BTA-83528-no-rs	61.38477	40336144	
9	Hapmap42860-BTA-17231	61.41727	40400556	
9	BTA-17229-no-rs	61.44765	40460754	
9	Hapmap27023-BTA-159777	61.5016	40567657	
9	BTA-17225-no-rs	61.51208	40588423	
9	Hapmap43796-BTA-17224	61.52562	40615253	
9	BTA-116260-no-rs	61.56824	40699712	
9	Hapmap39630-BTA-17235	61.60471	40771968	
9	ARS-BFGL-NGS-29436	61.66505	40891551	
9	Hapmap31815-BTA-156123	61.67968	40920531	
9	ARS-BFGL-NGS-72216	61.70966	40979935	
9	Hapmap50250-BTA-118345	61.73816	41036409	
9	ARS-BFGL-NGS-13783	61.75623	41072210	
9	BTA-117313-no-rs	61.78312	41125489	
9	ARS-BFGL-NGS-111730	61.82564	41209760	
9	Hapmap35705-SCAFFOLD135437_5344	61.9938	41542971	
9	ARS-BFGL-NGS-96167	62.11072	41774653	
9	ARS-BFGL-NGS-109382	62.17286	41897776	
9	Hapmap38574-BTA-118638	62.21893	41989065	
9	UA-IFASA-8241	62.30212	42153923	
9	Hapmap34594-BES1_Contig678_1348	62.32763	42204475	

9	ARS-BFGL-NGS-37643	62.41156	42370768	
9	Hapmap44525-BTA-15474	62.49163	42529450	
9	Hapmap51813-BTA-15470	62.51425	42574267	
9	BTA-88357-no-rs	62.55278	42650599	
9	ARS-BFGL-NGS-21330	62.58122	42706961	
9	ARS-BFGL-NGS-55374	62.62417	42792078	
9	ARS-BFGL-NGS-37982	62.63823	42819938	
9	ARS-BFGL-NGS-103934	62.66618	42875324	
9	BTA-83566-no-rs	62.70482	42951879	
9	Hapmap50123-BTA-83561	62.75636	43054017	
9	Hapmap50484-BTA-83557	62.80214	43144718	
9	UA-IFASA-4157	62.82394	43187936	
9	ARS-BFGL-NGS-66207	62.88591	43310722	
9	ARS-BFGL-NGS-109772	62.91258	43363563	
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9	Hapmap39443-BTA-83543	63.0295	43595237	
9	BTA-101172-no-rs	63.04004	43616136	
9	ARS-BFGL-NGS-115578	63.05911	43653927	
9	ARS-BFGL-NGS-110579	63.08762	43710426	
9	ARS-BFGL-NGS-59851	63.10616	43747151	
9	ARS-BFGL-NGS-170	63.16098	43855787	
9	ARS-BFGL-NGS-38561	63.17479	43883136	
9	Hapmap49359-BTA-88301	63.20646	43945908	
9	ARS-BFGL-NGS-39444	63.21406	43960964	
9	ARS-BFGL-NGS-75844	63.25169	44035529	
9	Hapmap57331-rs29009884	63.27204	44075848	
9	ARS-BFGL-NGS-31921	63.39721	44323878	
9	ARS-BFGL-NGS-108500	63.46616	44460505	
9	ARS-BFGL-NGS-25589	63.48087	44489665	
9	ARS-BFGL-NGS-8531	63.59399	44713803	
9	Hapmap42799-BTA-109445	63.62515	44775561	
9	Hapmap44189-BTA-109443	63.64541	44815699	
9	ARS-BFGL-NGS-77863	63.67418	44872698	
9	BTA-83636-no-rs	63.70426	44932317	
9	BTA-10828-no-rs	63.7141	44951803	
9	Hapmap24598-BTA-83620	63.83788	45197087	
9	UA-IFASA-8966	63.85513	45231268	
9	Hapmap39950-BTA-83616	63.89148	45303296	
9	Hapmap22884-BTA-24016	63.91869	45357203	
9	ARS-BFGL-NGS-75277	64.00586	45529939	
9	BTA-83577-no-rs	64.05334	45699093	
9	ARS-USMARC-Parent-DQ846689-rs29011985	64.0546	45729853	
9	UA-IFASA-1922	64.0546	45729853	
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9	ARS-BFGL-NGS-106536	64.06783	46053683	
9	BTA-100330-no-rs	64.06931	46089759	
9	Hapmap35192-BES9_Contig552_1143	64.07049	46118697	
9	ARS-BFGL-NGS-85944	64.07738	46287560	
9	Hapmap24524-BTA-107865	64.07999	46351157	
9	BTA-83591-no-rs	64.08334	46433336	
9	Hapmap33674-BTA-156367	64.08735	46531368	
9	Hapmap34923-BES9_Contig458_891	64.08948	46583336	
9	BTA-83597-no-rs	64.09148	46632366	
9	ARS-BFGL-NGS-119030	64.09273	46662943	
9	BTA-83605-no-rs	64.09587	46739973	
9	Hapmap43954-BTA-83607	64.10494	46961905	
9	BTA-22124-no-rs	64.11501	47208243	
9	BTA-83642-no-rs	64.11655	47246008	
9	Hapmap51064-BTA-83646	64.12012	47333303	



9	Hapmap40497-BTA-121906	64.12389	47425511
9	Hapmap41319-BTA-63990	64.13426	47679438
9	ARS-BFGL-NGS-76636	64.14571	47959651
9	Hapmap51481-BTA-67522	64.15145	48099985
9	Hapmap43652-BTA-67521	64.15331	48145429
9	BTA-67516-no-rs	64.15453	48175366
9	Hapmap50754-BTA-67505	64.15543	48197342
9	BTA-67497-no-rs	64.15943	48295406
9	Hapmap49702-BTA-67493	64.16347	48394081
9	ARS-BFGL-NGS-88160	64.17496	48675213
9	ARS-BFGL-NGS-27097	64.17688	48722389
9	Hapmap43369-BTA-83656	64.18094	48821695
9	ARS-BFGL-NGS-219	64.18338	48881374
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9	BTB-00391456	64.1852	48926104
9	BTB-00391496	64.18722	48975316
9	BTB-00391519	64.18814	48997819
9	BTB-00391548	64.18952	49031626
9	BTB-01609048	64.19008	49045410
9	Hapmap58739-rs29021754	64.19228	49099022
9	BTB-01739003	64.20108	49314571
9	BTB-01352573	64.20554	49423844
9	Hapmap41217-BTA-27517	64.2066	49449716
9	BTB-01352726	64.20813	49487154
9	BTA-01860-no-rs	64.20953	49521353
9	BTB-01352842	64.21096	49556408
9	BTB-01352876	64.21265	49597855
9	BTB-01352946	64.21358	49620497
9	BTB-01392212	64.21475	49649153
9	Hapmap30840-BTA-147842	64.21595	49678361
9	BTA-83662-no-rs	64.22027	49784088
9	BTB-00391944	64.22113	49805232
9	BTA-87891-no-rs	64.22361	49865815
9	BTB-02006579	64.22498	49899443
9	ARS-BFGL-NGS-51043	64.23022	50027556
9	Hapmap52880-ss46526560	64.2333	50102947
9	ARS-BFGL-NGS-41171	64.23449	50132049
9	ARS-BFGL-NGS-70971	64.23589	50166295
9	ARS-BFGL-NGS-92667	64.23672	50186596
9	BTB-01347067	64.23762	50208711
9	BTB-01347039	64.23872	50235638
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9	ARS-BFGL-NGS-69006	64.24339	50349924
9	BTB-01346962	64.24455	50378425
9	Hapmap47425-BTA-83657	64.24701	50438455
9	BTB-00391724	64.25098	50535574
9	Hapmap54273-rs29023608	64.25327	50591670
9	BTB-00391825	64.25493	50632294
9	BTB-00391835	64.25574	50652338
9	BTB-01888857	64.25645	50669651
9	ARS-BFGL-NGS-22125	64.25745	50694137
9	ARS-BFGL-NGS-103434	64.25886	50728426
9	BTA-83709-no-rs	64.26018	50760808
9	UA-IFASA-4980	64.26195	50804011
9	BTB-00392462	64.26311	50832512
9	Hapmap49336-BTA-83713	64.26463	50869600
9	BTB-00392496	64.26586	50899854
9	Hapmap44146-BTA-83959	64.26678	50922485
9	BTB-00397090	64.26852	50964942

9	BTB-00397064	64.26965	50992462	
9	BTA-83950-no-rs	64.27316	51078453	
9	ARS-BFGL-NGS-101365	64.27525	51129430	
9	ARS-BFGL-NGS-29072	64.27623	51153579	
9	BTB-00396949	64.27738	51181842	
9	Hapmap47870-BTA-121912	64.27886	51217915	
9	BTB-01931984	64.27988	51243021	
9	ARS-BFGL-NGS-616	64.28328	51326132	
9	Hapmap46961-BTA-17297	64.28611	51395314	
9	Hapmap41465-BTA-17283	64.28715	51420838	
9	Hapmap49897-BTA-17285	64.28806	51443155	
9	Hapmap25907-BTA-159799	64.2893	51473366	
9	BTB-01282960	64.29158	51529308	
9	Hapmap60361-rs29012351	64.2936	51578666	
9	ARS-BFGL-NGS-103666	64.29634	51645766	
9	BTB-01283139	64.29851	51698823	
9	Hapmap47166-BTA-107072	64.29972	51728403	
9	BTA-107065-no-rs	64.30244	51795122	
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9	ARS-BFGL-NGS-97180	64.30486	51854082	
9	UA-IFASA-845	64.30645	51893149	
9	ARS-BFGL-NGS-69840	64.30809	51933324	
9	Hapmap51117-BTA-102867	64.30903	51956276	
9	BTA-102864-no-rs	64.31023	51985736	
9	Hapmap32423-BTA-92864	64.31628	52133642	
9	BTB-01168331	64.31744	52162143	
9	BTB-01168267	64.31985	52221237	
9	Hapmap60949-rs29020404	64.32239	52283151	
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9	Hapmap23928-BTA-102869	64.33115	52497549	
9	ARS-BFGL-NGS-104966	64.33417	52571370	
9	BTB-01176710	64.33715	52644487	
9	ARS-BFGL-NGS-12787	64.33879	52684647	
9	BTB-01176436	64.34092	52736750	
9	BTB-01247353	64.34437	52821082	
9	BTB-01247372	64.34556	52850186	
9	Hapmap27882-BTA-153819	64.35388	53053923	
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9	BTB-01215209	64.35807	53156338	
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9	Hapmap47506-BTA-111956	64.36138	53237445	
9	BTA-111931-no-rs	64.3623	53259875	
9	BTB-01215320	64.36447	53313101	
9	BTA-111934-no-rs	64.36532	53333834	
9	BTB-01215359	64.36619	53355112	
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9	BTA-111940-no-rs	64.36826	53405564	
9	Hapmap38194-BTA-111942	64.36946	53435079	
9	ARS-BFGL-NGS-113758	64.37089	53470050	
9	Hapmap41432-BTA-111954	64.37789	53641388	
9	ARS-BFGL-NGS-93755	64.38202	53742353	
9	Hapmap44295-BTA-83716	64.38318	53770853	
9	BTA-83720-no-rs	64.38462	53806121	
9	Hapmap27874-BTA-146513	64.38729	53871363	
9	BTB-00392847	64.38875	53907090	
9	Hapmap59283-rs29021602	64.39188	53983792	
9	Hapmap59494-rs29020429	64.3951	54062560	
9	Hapmap36575-SCAFFOLD243776_825	64.39944	54168744	
9	Hapmap41423-BTA-109716	64.40032	54190285	

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9	ARS-BFGL-NGS-108373	64.40276	54249918	
9	BTA-17651-no-rs	64.40553	54317953	
9	Hapmap44208-BTA-119972	64.40764	54369375	
9	Hapmap42486-BTA-26497	64.41	54427364	
9	BTB-01286183	64.41103	54452359	
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9	ARS-BFGL-NGS-5833	64.41574	54567712	
9	BTA-17652-no-rs	64.41737	54607380	
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9	BTB-00393938	64.42078	54690915	
9	BTB-00393918	64.42435	54778504	
9	BTB-00393881	64.42657	54832703	
9	ARS-BFGL-NGS-5077	64.42783	54863600	
9	BTB-01837203	64.42876	54886468	
9	ARS-BFGL-NGS-28874	64.43002	54916913	
9	BTB-01878346	64.43084	54937110	
9	Hapmap32827-BTA-146530	64.43373	55007839	
9	BTB-00393790	64.43572	55056680	
9	Hapmap60082-rs29026815	64.43733	55096065	
9	BTB-01922590	64.43819	55117119	
9	Hapmap48917-BTA-83740	64.44568	55300379	
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9	BTB-00393640	64.44828	55363999	
9	BTB-00393505	64.45033	55414103	
9	Hapmap50126-BTA-83733	64.45178	55449737	
9	BTB-00393397	64.45371	55496923	
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9	Hapmap26414-BTA-146523	64.45689	55574798	
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9	BTB-00393098	64.46367	55740550	
9	BTB-00392986	64.46492	55771156	
9	BTB-00392969	64.46622	55802932	
9	BTB-00392939	64.46725	55828214	
9	Hapmap47479-BTA-104638	64.47191	55942119	
9	ARS-BFGL-NGS-47927	64.47723	56072341	
9	BTB-01395754	64.47813	56094640	
9	BTB-01828494	64.47955	56129132	
9	BTB-01716755	64.48219	56193601	
9	BTB-01716797	64.48357	56227494	
9	BTB-01346891	64.48943	56370974	
9	Hapmap35198-BES8_Contig519_816	64.4909	56406855	
9	Hapmap41808-BTA-26633	64.49304	56459368	
9	BTB-01346677	64.4943	56490122	
9	BTB-01346626	64.49561	56522192	
9	Hapmap44223-BTA-26639	64.4967	56548919	
9	ARS-BFGL-NGS-2331	64.49946	56616446	
9	BTA-105130-no-rs	64.50518	56756412	
9	BTB-01576221	64.5064	56786292	
9	ARS-BFGL-NGS-80765	64.51124	56904690	
9	BTB-01151441	64.51405	56973559	
9	BTB-02024936	64.51511	56999335	
9	Hapmap42751-BTA-98904	64.5165	57033506	
9	Hapmap49396-BTA-98905	64.51798	57069740	
9	BTB-01151584	64.52039	57128694	
9	BTA-98907-no-rs	64.52257	57182000	
9	BTB-01151858	64.52432	57224923	
9	BTB-01151930	64.52692	57288578	

9	BTB-01152013	64.5285	57327067
9	BTB-01152078	64.53085	57384683
9	BTB-01152124	64.53201	57412955
9	ARS-BFGL-NGS-84840	64.53622	57515862
9	UA-IFASA-4968	64.53799	57559232
9	BTA-83801-no-rs	64.54032	57616379
9	ARS-BFGL-NGS-111196	64.54205	57658825
9	BTB-01427738	64.54291	57679687
9	BTA-92485-no-rs	64.54413	57709461
9	BTB-01865977	64.5465	57767547
9	ARS-BFGL-NGS-16443	64.54893	57826905
9	BTB-01427780	64.5506	57867887
9	BTA-92472-no-rs	64.55154	57891069
9	BTB-01990746	64.5531	57929119
9	BTA-87269-no-rs	64.55395	57949852
9	BTB-01573160	64.55646	58011347
9	BTB-01573139	64.55907	58075303
9	BTA-104917-no-rs	64.56062	58113021
9	BTB-01604502	64.56194	58145538
9	BTB-01467676	64.56654	58258097
9	BTA-109454-no-rs	64.56818	58298041
9	ARS-BFGL-NGS-29768	64.57427	58447291
9	BTB-01671508	64.57591	58487329
9	Hapmap50486-BTA-83799	64.57792	58536480
9	BTB-00394165	64.57967	58579267
9	Hapmap58670-rs29015048	64.58153	58624775
9	BTB-00394155	64.58245	58647319
9	ARS-BFGL-NGS-116848	64.58519	58714428
9	Hapmap57442-rs29017608	64.58698	58757994
9	BTA-21388-no-rs	64.58911	58810351
9	BTA-59711-no-rs	64.59151	58868903
9	BTB-00901299	64.59435	58938350
9	Hapmap51290-BTA-70575	64.59836	59036606
9	BTA-70599-no-rs	64.60155	59114731
9	Hapmap60059-rs29014427	64.60433	59182901
9	BTB-00394480	64.60631	59231149
9	Hapmap51506-BTA-83806	64.61133	59354125
9	BTB-00394801	64.61253	59383405
9	Hapmap54251-rs29018288	64.61449	59431293
9	ARS-BFGL-NGS-33605	64.61618	59472770
9	ARS-BFGL-NGS-92583	64.61809	59519479
9	BTB-00395111	64.61919	59546474
9	BTB-00395187	64.62022	59571491
9	BTB-00395273	64.62122	59595970
9	BTB-00395419	64.62325	59645951
9	Hapmap38634-BTA-83821	64.6241	59666555
9	BTB-00395482	64.62518	59692848
9	ARS-BFGL-NGS-33609	64.62656	59726700
9	Hapmap51401-BTA-117495	64.62776	59756194
9	ARS-BFGL-NGS-92972	64.62925	59792545
9	BTB-01853659	64.63023	59816494
9	Hapmap41438-BTA-115881	64.63149	59847463
9	Hapmap49874-BTA-115876	64.63241	59869895
9	ARS-BFGL-NGS-111307	64.63474	59927094
9	BTB-00395607	64.6366	59972449
9	BTA-83827-no-rs	64.63753	59995189
9	ARS-BFGL-NGS-38956	64.6391	60033566
9	BTA-83844-no-rs	64.63993	60054010
9	BTB-00395654	64.64189	60102040

9	ARS-BFGL-NGS-26726	64.64415	60157171	
9	Hapmap53523-rs29024932	64.64706	60228560	
9	BTA-83895-no-rs	64.65087	60321793	
9	BTB-00395953	64.65198	60348785	
9	ARS-BFGL-NGS-107809	64.65494	60421338	
9	BTB-00396057	64.65581	60442593	
9	BTA-83905-no-rs	64.65675	60465587	
9	ARS-BFGL-NGS-45271	64.658	60496111	
9	BTB-00396922	64.65929	60527870	
9	ARS-BFGL-NGS-34075	64.66393	60641328	
9	ARS-BFGL-NGS-56932	64.66524	60673344	
9	BTB-00396331	64.66862	60756087	
9	Hapmap43073-BTA-83925	64.66985	60786164	
9	BTB-00396373	64.67104	60815205	
9	BTB-00396392	64.67194	60837285	
9	BTB-00396414	64.67288	60860296	
9	Hapmap50487-BTA-83926	64.67393	60886086	
9	Hapmap51642-BTA-83927	64.68113	61062154	
9	Hapmap48919-BTA-83929	64.68237	61092707	
9	ARS-BFGL-NGS-78250	64.68383	61128248	
9	BTB-00396602	64.6848	61152029	
9	BTB-00396685	64.68713	61209187	
9	Hapmap59008-rs29027423	64.68829	61237569	
9	BTB-00396747	64.69053	61292190	
9	BTB-00396800	64.69251	61340713	
9	Hapmap52567-rs29017340	64.6949	61399221	
9	ARS-BFGL-NGS-21904	64.69712	61453492	
9	BTB-00397151	64.69988	61521049	
9	BTB-00397142	64.70097	61547823	
9	ARS-BFGL-NGS-77738	64.70192	61571058	
9	BTB-00397198	64.70309	61599461	
9	Hapmap31551-BTA-83965	64.70403	61622515	
9	BTB-00397464	64.70798	61719292	
9	ARS-BFGL-NGS-10020	64.70924	61750208	
9	BTB-00397480	64.71018	61773207	
9	ARS-BFGL-NGS-12541	64.71205	61818837	
9	BTB-01352997	64.7147	61883731	
9	Hapmap31864-BTA-27548	64.72101	62038050	
9	Hapmap35110-BES4_Contig487_1232	64.72562	62151101	
9	Hapmap23835-BTA-161158	64.73192	62305144	
9	ARS-BFGL-NGS-31371	64.73286	62328044	
9	BTB-01310178	64.73401	62356223	
9	BTB-01593409	64.73611	62407540	
9	BTB-01310243	64.73975	62496679	
9	BTB-01520203	64.7415	62539556	
9	Hapmap35811-SCAFFOLD290938_3570	64.74361	62591320	
9	ARS-BFGL-NGS-114054	64.75017	62751655	
9	ARS-BFGL-NGS-60933	64.75655	62907869	
9	Hapmap35559-SCAFFOLD35632_12026	64.75874	62961279	
9	ARS-BFGL-NGS-79902	64.75991	62990077	
9	ARS-BFGL-NGS-44385	64.76155	63030338	
9	BTA-12455-rs29024407	64.76509	63116931	
9	Hapmap26693-BTA-146557	64.77914	63460554	
9	ARS-BFGL-NGS-15887	64.78014	63485138	
9	Hapmap54718-rs29022960	64.78379	63574601	
9	BTA-83980-no-rs	64.78615	63632173	
9	BTB-00397611	64.78865	63693351	
9	BTB-00397630	64.78962	63717205	
9	Hapmap52601-rs29025947	64.79053	63739649	

9	BTB-00397688	64.79187	63772321	
9	Hapmap34562-BES4_Contig366_1332	64.79384		63820432
9	ARS-BFGL-NGS-33774	64.79463	63839779	
9	BTA-83987-no-rs	64.79559	63863237	
9	BTB-01628262	64.79986	63967768	
9	Hapmap53639-rs29019504	64.80414	64072491	
9	ARS-BFGL-NGS-35676	64.80565	64109435	
9	BTB-01642014	64.80653	64130815	
9	BTB-01642049	64.80862	64182286	
9	ARS-BFGL-NGS-113585	64.80965	64207421	
9	Hapmap47795-BTA-98172	64.81058	64229989	
9	ARS-BFGL-NGS-36482	64.8119	64262480	
9	BTB-01673493	64.8131	64291804	
9	ARS-BFGL-NGS-53537	64.81678	64381905	
9	Hapmap31198-BTA-161981	64.81868	64428333	
9	BTB-01704093	64.8228	64529140	
9	ARS-BFGL-NGS-30222	64.82395	64557321	
9	BTB-01704243	64.82501	64583261	
9	BTA-15110-rs29026475	64.82938	64690186	
9	BTB-01730460	64.83046	64716608	
9	BTB-01386273	64.83794	64899782	
9	ARS-BFGL-NGS-117127	64.83861	64915912	
9	BTB-01594376	64.84464	65063673	
9	Hapmap31163-BTA-154377	64.84544	65083334	
9	BTB-01594395	64.84585	65093167	
9	Hapmap55300-rs29024610	64.84666	65113143	
9	ARS-BFGL-NGS-71599	64.84834	65154296	
9	BTB-01746512	64.84922	65175762	
9	Hapmap57000-rs29011304	64.85037	65203849	
9	UA-IFASA-4566	64.85039	65204298	
9	Hapmap53242-rs29026834	64.85234	65252101	
9	BTB-00397809	64.85368	65284951	
9	ARS-BFGL-NGS-113788	64.85469	65309511	
9	Hapmap25845-BTA-146562	64.85635	65350049	
9	ARS-BFGL-NGS-98591	64.85777	65384777	
9	Hapmap47426-BTA-83993	64.85871	65407860	
9	Hapmap46381-BTA-84002	64.86039	65449055	
9	BTB-00398162	64.86169	65480675	
9	ARS-BFGL-NGS-39615	64.86284	65508867	
9	ARS-BFGL-NGS-76541	64.86426	65543624	
9	ARS-BFGL-NGS-111623	64.86509	65564012	
9	ARS-BFGL-NGS-71603	64.86691	65608668	
9	BTB-00398421	64.86817	65639413	
9	BTB-00398454	64.86951	65672050	
9	Hapmap43075-BTA-84007	64.87044	65694964	
9	Hapmap34494-BES3_Contig286_1171	64.87222		65738419
9	BTA-113948-no-rs	64.87547	65818036	
9	ARS-BFGL-NGS-34134	64.88799	66124313	
9	BTA-84028-no-rs	64.8904	66183555	
9	Hapmap57940-rs29016449	64.8918	66217784	
9	Hapmap58377-rs29014990	64.89485	66292441	
9	Hapmap33655-BTA-115626	64.89841	66379569	
9	ARS-BFGL-NGS-50415	64.90257	66481382	
9	ARS-BFGL-NGS-58983	64.90445	66527271	
9	UA-IFASA-2717	64.91125	66693686	
9	BTA-33284-no-rs	64.91221	66717079	
9	Hapmap51586-BTA-33282	64.91561	66800447	
9	BTA-33278-no-rs	64.92249	66968533	
9	Hapmap42513-BTA-33276	64.92368	66997852	

9	Hapmap42473-BTA-21724	64.92681	67074512	
9	Hapmap27624-BTA-154889	64.92877	67122449	
9	Hapmap23219-BTA-154903	64.93378	67244999	
9	ARS-BFGL-NGS-119043	64.93495	67273738	
9	ARS-BFGL-NGS-15033	64.9361	67301858	
9	ARS-BFGL-NGS-71216	64.94069	67414112	
9	Hapmap51889-BTA-21207	64.95114	67669856	
9	ARS-BFGL-NGS-10864	64.95299	67715064	
9	ARS-BFGL-NGS-97739	64.96281	67955346	
9	Hapmap53394-rs29011074	64.99006	68622253	
9	Hapmap39783-BTA-84049	64.99129	68652498	
9	ARS-BFGL-NGS-77713	64.99229	68676829	
9	ARS-BFGL-NGS-102632	64.99869	68833433	
9	Hapmap27875-BTA-146598	65.00443	68973776	
9	Hapmap58190-rs29022461	65.00845	69072417	
9	Hapmap51323-BTA-84058	65.00981	69105572	
9	Hapmap49773-BTA-84060	65.01385	69204493	
9	ARS-BFGL-NGS-18608	65.01514	69236153	
9	BTA-84062-no-rs	65.01736	69290334	
9	Hapmap48920-BTA-84063	65.01835	69314521	
9	Hapmap59023-rs29022215	65.02538	69486616	
9	ARS-BFGL-NGS-21843	65.02645	69512842	
9	Hapmap52411-rs29016144	65.03287	69669920	
9	Hapmap53034-rs29011422	65.03395	69696334	
9	ARS-BFGL-NGS-77406	65.03485	69718369	
9	ARS-BFGL-NGS-6230	65.03893	69818133	
9	BTA-84078-no-rs	65.0405	69856640	
9	UA-IFASA-4852	65.04207	69895004	
9	Hapmap43076-BTA-84080	65.04259	69907989	
9	Hapmap43702-BTA-84086	65.04458	69956436	
9	Hapmap60557-rs29018515	65.04919	70069173	
9	BTA-121917-no-rs	65.0551	70213859	
9	Hapmap51324-BTA-84103	65.0565	70248005	
9	Hapmap32585-BTA-146623	65.05948	70321037	
9	BTA-84106-no-rs	65.30857	70439087	
9	ARS-BFGL-NGS-10446	65.36015	70479528	
9	ARS-BFGL-NGS-113524	65.37566	70491698	
9	ARS-BFGL-NGS-17032	65.44978	70549825	
9	BTA-84108-no-rs	65.50023	70589381	
9	BTA-102668-no-rs	65.52943	70612283	
9	BTA-102674-no-rs	65.57162	70645369	
9	Hapmap34932-BES2_Contig534_1340		65.61691	70689180
9	ARS-BFGL-NGS-24848	65.80102	70874966	
9	ARS-BFGL-NGS-119476	65.83015	70904362	
9	BTA-97753-no-rs	65.88449	70959203	
9	BTA-97754-no-rs	65.94663	71021904	
9	ARS-BFGL-NGS-73931	66.02999	71106014	
9	Hapmap49339-BTA-84110	66.08562	71162153	
9	Hapmap39445-BTA-84115	66.30975	71389287	
9	ARS-BFGL-NGS-65921	66.37029	71450748	
9	ARS-BFGL-NGS-75682	66.38831	71469050	
9	BTA-122057-no-rs	66.41864	71499843	
9	BTA-84153-no-rs	66.76376	71785036	
9	ARS-BFGL-NGS-103273	66.78831	71884731	
9	ARS-BFGL-NGS-88289	66.79594	71915703	
9	ARS-BFGL-NGS-88546	66.80172	71939142	
9	ARS-BFGL-NGS-78172	66.80946	71970552	
9	Hapmap34441-BES9_Contig154_536		66.83199	72062027
9	BTA-84163-no-rs	66.84518	72115536	

9	BTA-84172-no-rs	66.89265	72308243	
9	Hapmap51986-BTA-84173	66.89847	72331851	
9	Hapmap42338-BTA-84177	66.92631	72503814	
9	Hapmap25288-BTA-146657	66.93012	72533081	
9	ARS-BFGL-NGS-31553	66.93578	72576471	
9	Hapmap35154-BES5_Contig430_1070		66.94807	72670722
9	Hapmap49774-BTA-84178	66.9511	72694058	
9	BTA-84179-no-rs	66.95398	72716135	
9	BTA-84183-no-rs	66.95778	72745282	
9	Hapmap40256-BTA-84189	66.96784	72822507	
9	ARS-BFGL-NGS-119805	67.16917	73185539	
9	ARS-BFGL-NGS-40061	67.20071	73219528	
9	ARS-BFGL-NGS-116287	67.23791	73259605	
9	ARS-BFGL-NGS-34643	67.31329	73340821	
9	Hapmap43703-BTA-84122	67.33867	73368179	
9	BTA-84124-no-rs	67.36	73417713	
9	ARS-BFGL-NGS-107540	67.36	73475655	
9	ARS-BFGL-NGS-29116	67.36	73525907	
9	ARS-BFGL-NGS-20865	67.46008	73718486	
9	Hapmap43370-BTA-84209	67.49972	73749461	
9	Hapmap38127-BTA-84272	67.65828	73873382	
9	BTA-84267-no-rs	67.72051	73922020	
9	ARS-BFGL-NGS-89981	67.78651	73973594	
9	BTA-84258-no-rs	67.83305	74009972	
9	BTA-84257-no-rs	67.89328	74057041	
9	BTA-84256-no-rs	68.04485	74175488	
9	ARS-BFGL-NGS-16966	68.10692	74223999	
9	BTA-84254-no-rs	68.15969	74265237	
9	ARS-BFGL-NGS-25071	68.19551	74293236	
9	BTA-84246-no-rs	68.22281	74314570	
9	BTA-84244-no-rs	68.26435	74347032	
9	BTA-84242-no-rs	68.3	74380933	
9	ARS-BFGL-NGS-36451	68.32973	74512290	
9	BTA-84237-no-rs	68.35308	74582787	
9	Hapmap42339-BTA-84231	68.367	74624785	
9	ARS-BFGL-NGS-35569	68.3926	74702101	
9	ARS-BFGL-NGS-28843	68.39949	74722894	
9	ARS-BFGL-NGS-59160	68.43275	74823338	
9	Hapmap61054-rs29010366	68.44124	74848962	
9	BTA-19965-no-rs	68.47866	74961950	
9	BTA-19966-no-rs	68.51802	75080790	
9	BTA-07004-no-rs	68.52703	75107997	
9	Hapmap31122-BTA-146680	68.54343	75157517	
9	Hapmap44297-BTA-84289	68.55578	75194809	
9	BTA-84286-no-rs	68.65171	75484456	
9	Hapmap33532-BTA-84282	68.689	75597064	
9	ARS-BFGL-NGS-114921	68.71932	75688599	
9	Hapmap54471-rs29017484	68.74097	75753957	
9	Hapmap51348-BTA-90742	68.75796	75805249	
9	Hapmap48558-BTA-101012	68.78814	75896385	
9	Hapmap34526-BES7_Contig402_572		68.79996	75932080
9	ARS-BFGL-NGS-35694	69.012	76071062	
9	BTA-01195-rs29012162	69.05634	76100102	
9	Hapmap42848-BTA-122260	69.1356	76152019	
9	ARS-BFGL-NGS-12104	69.38621	76316163	
9	Hapmap38455-BTA-100999	69.43289	76346736	
9	ARS-BFGL-NGS-74588	69.53522	76413758	
9	BTA-84308-no-rs	69.70837	76527168	
9	ARS-BFGL-NGS-37047	69.79842	76586149	



9	ARS-BFGL-NGS-83490	69.84801	76618632
9	BTA-93583-no-rs	69.89478	76649263
9	BTA-84292-no-rs	70.04158	76745413
9	ARS-BFGL-NGS-20794	70.08951	76776811
9	ARS-BFGL-NGS-10679	70.22917	76868290
9	ARS-BFGL-NGS-118949	70.28575	76905344
9	ARS-BFGL-NGS-41333	70.32034	76928003
9	BTA-84317-no-rs	70.41043	76987007
9	Hapmap43704-BTA-84318	70.48214	77033979
9	ARS-BFGL-NGS-33808	70.53769	77070363
9	Hapmap50488-BTA-84319	70.57594	77095410
9	Hapmap50799-BTA-84323	70.66373	77162640
9	ARS-BFGL-NGS-64241	70.73154	77234828
9	BTA-19410-no-rs	70.78502	77284126
9	BTA-84325-no-rs	70.89517	77345504
9	BTA-18844-no-rs	70.9991	77403405
9	Hapmap49341-BTA-84329	71.06935	77442550
9	Hapmap31795-BTA-151053	71.30941	77576301
9	ARS-BFGL-NGS-116465	71.59222	77733879
9	ARS-BFGL-NGS-10386	71.77003	77832949
9	Hapmap42142-BTA-22984	71.81534	77858196
9	BTA-16148-no-rs	71.84245	77873296
9	Hapmap44040-BTA-22987	72.1422	78040314
9	Hapmap52202-rs29021143	72.39313	78142382
9	BTA-121926-no-rs	72.76445	78276718
9	BTA-84369-no-rs	72.83035	78300558
9	Hapmap41986-BTA-84372	73.08891	78394103
9	ARS-BFGL-NGS-43195	73.59412	78576880
9	Hapmap42740-BTA-96267	74.28932	78811934
9	Hapmap50171-BTA-96266	74.33194	78858626
9	Hapmap50205-BTA-107882	74.35	78979091
9	BTA-107880-no-rs	74.35	79032924
9	Hapmap45612-BTA-28859	74.58475	79191994
9	Hapmap26214-BTA-163696	74.77273	79256833
9	ARS-BFGL-NGS-33739	75.20994	79407633
9	Hapmap48707-BTA-28856	75.3536	79457186
9	BTA-113455-no-rs	75.56499	79530093
9	BTA-89158-no-rs	75.86922	79691648
9	Hapmap40089-BTA-89155	75.93838	79781621
9	Hapmap44298-BTA-84382	76.01973	79887463
9	Hapmap43371-BTA-84377	76.09761	79988795
9	Hapmap58666-rs29014693	76.11808	80015418
9	ARS-BFGL-NGS-16486	76.30479	80258329
9	ARS-BFGL-NGS-62628	76.40635	80390453
9	BTA-84365-no-rs	76.54424	80569843
9	BTA-84362-no-rs	76.59362	80634085
9	Hapmap51325-BTA-84364	76.62069	80669302
9	BTA-84353-no-rs	76.76672	80859295
9	ARS-BFGL-NGS-55553	76.78903	80888317
9	Hapmap59267-rs29026781	76.84655	80963141
9	ARS-BFGL-NGS-112652	76.88205	81009334
9	ARS-BFGL-NGS-44418	76.9524	81098768
9	Hapmap57618-rs29026831	77.00731	81166662
9	Hapmap54921-rs29026461	77.03049	81195326
9	BTA-122201-no-rs	77.04739	81216232
9	Hapmap49843-BTA-106082	77.07258	81247377
9	ARS-BFGL-NGS-11256	77.09666	81277154
9	BTA-106078-no-rs	77.13926	81329823
9	BTB-01182680	77.17071	81368713

9	BTB-01182684	77.18703	81388889
9	Hapmap31482-BTA-154189	77.21029	81417658
9	BTB-01182727	77.24195	81456800
9	BTB-01710251	77.29553	81523056
9	BTA-115307-no-rs	77.31348	81545246
9	Hapmap32778-BTA-106085	77.383	81631217
9	ARS-BFGL-NGS-70749	77.46098	81677052
9	ARS-BFGL-NGS-27092	77.52021	81708099
9	Hapmap29793-BTA-106104	77.57027	81749940
9	BTB-01645049	77.58865	81787494
9	Hapmap60500-rs29024426	77.6054	81821734
9	BTB-01645032	77.61681	81845054
9	BTB-00401428	77.65549	81924104
9	ARS-BFGL-NGS-32670	77.68362	81981575
9	BTB-00401246	77.69419	82003186
9	Hapmap46252-BTA-84439	77.7046	82024459
9	ARS-BFGL-NGS-14920	77.72084	82057649
9	Hapmap57034-rs29025414	77.73377	82084067
9	ARS-BFGL-NGS-55057	77.75661	82130748
9	BTB-00401032	77.78316	82176129
9	ARS-BFGL-NGS-116623	77.81801	82223855
9	Hapmap51065-BTA-84434	77.83967	82253520
9	ARS-BFGL-NGS-102919	77.85646	82276522
9	ARS-BFGL-NGS-118161	77.87828	82306396
9	BTB-00400948	77.91437	82355820
9	ARS-BFGL-NGS-99576	77.96101	82419691
9	ARS-BFGL-NGS-100330	77.97907	82444430
9	ARS-BFGL-NGS-109349	78.01236	82490024
9	ARS-BFGL-NGS-1777	78.06635	82563961
9	BTB-00400904	78.09876	82608356
9	BTB-00400860	78.11813	82634864
9	BTA-84427-no-rs	78.16976	82705586
9	ARS-BFGL-NGS-2241	78.18603	82727863
9	Hapmap40603-BTA-84409	78.22535	82781711
9	BTA-84405-no-rs	78.24446	82807881
9	BTA-84403-no-rs	78.29626	82843969
9	BTB-00400366	78.36846	82873437
9	BTB-00400339	78.43776	82901727
9	BTA-84397-no-rs	78.50028	82927247
9	BTB-00400244	78.55849	82951008
9	Hapmap51958-BTA-84395	78.6116	82972692
9	Hapmap42700-BTA-84388	78.86809	83077381
9	BTB-01456416	78.96385	83116475
9	BTB-01456392	78.97471	83120903
9	BTB-01456321	79.02437	83141177
9	BTB-00400138	79.08719	83166819
9	BTA-84383-no-rs	79.28039	83245679
9	BTB-01456285	79.37223	83283165
9	Hapmap54313-rs29012632	79.4644	83320792
9	BTB-01513424	79.56696	83362656
9	BTB-01513361	79.68277	83409925
9	BTB-01513309	79.80957	83461690
9	ARS-BFGL-NGS-30584	79.92074	83507724
9	ARS-BFGL-NGS-53381	79.94266	83536274
9	ARS-BFGL-NGS-88859	79.97274	83575446
9	ARS-BFGL-NGS-118675	80.02346	83641501
9	ARS-BFGL-NGS-23464	80.04102	83664370
9	ARS-BFGL-NGS-17395	80.06226	83692030
9	ARS-BFGL-NGS-25441	80.07921	83714110

9	Hapmap40235-BTA-119728	80.0977	83738200
9	ARS-BFGL-NGS-109815	80.17362	83837068
9	ARS-BFGL-NGS-35130	80.22557	83904725
9	Hapmap57148-rs29015116	80.4716	84225154
9	ARS-BFGL-NGS-114088	80.55956	84339715
9	ARS-BFGL-NGS-1866	80.68212	84489200
9	ARS-BFGL-NGS-118527	80.9104	84595871
9	ARS-BFGL-NGS-99132	80.95441	84616437
9	Hapmap27146-BTA-123441	81.00302	84639150
9	Hapmap60699-rs29010238	81.01	84745111
9	Hapmap33653-BTA-112243	81.01	84792441
9	ARS-BFGL-NGS-27299	81.03182	85002515
9	Hapmap43145-BTA-107843	81.16315	85175167
9	ARS-BFGL-NGS-96898	81.36941	85301768
9	Hapmap43956-BTA-84582	81.4175	85333947
9	Hapmap46173-BTA-84572	81.51026	85396006
9	ARS-BFGL-NGS-60678	81.59764	85454475
9	Hapmap59396-rs29023560	81.65703	85494205
9	BTA-84570-no-rs	81.71382	85532211
9	ARS-BFGL-NGS-105322	81.76289	85565030
9	BTA-84564-no-rs	81.79371	85585657
9	Hapmap50127-BTA-84563	81.92847	85675821
9	BTA-02714-rs29010261	82.02016	85737168
9	ARS-BFGL-NGS-63123	82.46725	86036314
9	Hapmap23879-BTA-146765	82.728	86210768
9	BTA-84628-no-rs	82.75951	86231860
9	BTA-84626-no-rs	82.84489	86288986
9	BTB-00402806	82.87724	86310626
9	BTB-00402916	82.90719	86330663
9	Hapmap52373-rs29009799	82.97525	86376201
9	Hapmap48494-BTA-84619	83.06617	86437031
9	BTB-00402583	83.12406	86475766
9	BTB-00402534	83.19662	86524317
9	Hapmap27598-BTA-146755	83.24441	86556291
9	ARS-BFGL-NGS-116404	83.27578	86577283
9	BTB-00402373	83.3438	86622791
9	BTB-00402311	83.3881	86652435
9	Hapmap48493-BTA-84616	83.43182	86681677
9	ARS-BFGL-NGS-24687	83.49399	86723281
9	Hapmap51067-BTA-84587	83.55314	86762856
9	ARS-BFGL-NGS-15259	83.59591	86791475
9	ARS-BFGL-NGS-45802	83.65331	86829874
9	ARS-BFGL-NGS-15013	83.6937	86856896
9	BTB-00401909	83.72913	86880605
9	ARS-BFGL-NGS-119928	83.78691	86919266
9	BTB-00402076	83.91991	87008260
9	Hapmap56489-rs29022968	83.96566	87038862
9	ARS-BFGL-NGS-43711	84.06	87117785
9	Hapmap38787-BTA-84605	84.06	87164626
9	Hapmap39784-BTA-84610	84.06	87190233
9	ARS-BFGL-NGS-53150	84.06	87212622
9	BTB-00402295	84.06	87254861
9	BTB-00403761	84.06	87269827
9	ARS-BFGL-NGS-37099	84.06	87378346
9	ARS-BFGL-NGS-25568	84.06	87429492
9	BTB-00403874	84.06	87450828
9	Hapmap54036-ss46525997	84.06	87475295
9	ARS-BFGL-NGS-58769	84.06	87497282
9	BTA-84665-no-rs	84.06	87525197

9	Hapmap47152-BTA-101314	84.11047	87568944
9	ARS-BFGL-NGS-3465	84.28922	87606681
9	BTA-56214-no-rs	84.68243	87689696
9	BTA-56221-no-rs	84.84753	87724552
9	Hapmap54854-rs29025535	84.88634	87759769
9	ARS-BFGL-NGS-23462	84.95432	87843841
9	Hapmap55954-rs29018921	84.99055	87888653
9	BTB-01693152	85.17115	88112031
9	Hapmap49063-BTA-122476	85.19804	88145277
9	ARS-BFGL-NGS-16116	85.23935	88196384
9	BTB-02043786	85.5645	88342363
9	ARS-BFGL-NGS-25823	85.83231	88448285
9	BTB-01648475	85.88698	88469911
9	BTB-01492359	86.05115	88534846
9	BTB-02079832	86.1133	88559434
9	BTB-01864192	86.24942	88613272
9	BTA-56213-no-rs	86.45131	88693128
9	BTB-00866140	86.50487	88714313
9	BTA-56204-no-rs	86.62057	88760079
9	ARS-BFGL-NGS-36861	86.75552	88814138
9	Hapmap58334-rs29012728	86.83611	88855919
9	ARS-BFGL-NGS-28183	86.90648	88892407
9	BTB-00865957	86.95241	88916220
9	Hapmap43079-BTA-84708	87.02858	88955721
9	BTA-56201-no-rs	87.04481	88964135
9	ARS-BFGL-NGS-6332	87.10165	88993611
9	Hapmap50128-BTA-84697	87.57486	89238979
9	ARS-BFGL-NGS-92851	87.63817	89271801
9	Hapmap58876-ss46526986	87.708	89308006
9	BTB-00405541	87.82547	89368919
9	BTB-00405487	87.9101	89412796
9	ARS-BFGL-NGS-18187	87.95376	89435441
9	ARS-BFGL-NGS-97743	88.22832	89577808
9	BTB-00405230	88.33533	89633289
9	BTB-00404975	88.58377	89762109
9	BTB-00404802	88.749	89847787
9	BTB-00404754	88.80693	89877827
9	Hapmap40028-BTA-84686	88.84126	89895626
9	BTB-00404735	88.92734	89940260
9	BTB-00404706	88.99239	89973982
9	Hapmap47116-BTA-84683	89.04761	90002616
9	BTB-00404639	89.11514	90037629
9	BTB-00404625	89.19756	90080368
9	BTA-84673-no-rs	89.24232	90103579
9	Hapmap42341-BTA-84711	89.34252	90155533
9	BTB-00405803	89.42729	90199490
9	BTB-02074519	89.46338	90218202
9	ARS-BFGL-NGS-46105	89.52082	90247980
9	BTB-00404361	89.58872	90283190
9	ARS-BFGL-NGS-83811	89.6644	90322432
9	BTB-00404235	89.74736	90365450
9	Hapmap30552-BTA-146773	89.82461	90405501
9	BTB-00404155	89.85953	90423605
9	ARS-BFGL-NGS-118377	90.0478	90521235
9	Hapmap55532-rs29025303	90.09057	90543408
9	Hapmap33670-BTA-153234	90.1423	90570234
9	ARS-BFGL-NGS-32066	90.3752	90690991
9	BTB-01528583	90.43034	90719582
9	BTB-01528609	90.50256	90757034

9	ARS-BFGL-NGS-27372	90.60027	90807695	
9	BTB-01839335	90.66167	90839538	
9	BTB-01856096	90.74806	90884326	
9	BTB-01926094	90.82618	90924836	
9	BTB-00403185	91.00037	91058994	
9	Hapmap34846-BES9_Contig542_948		91.11187	91090826
9	BTB-00403209	91.21658	91120724	
9	Hapmap44674-BTA-84638	91.3479	91158204	
9	BTA-86768-no-rs	91.80679	91289219	
9	BTB-00403297	92.00636	91346194	
9	BTB-00403334	92.12851	91381065	
9	ARS-BFGL-NGS-110412	92.33231	91439245	
9	BTB-00403463	92.40318	91459477	
9	BTB-00403474	92.43858	91469581	
9	BTB-00403553	92.53447	91496960	
9	BTB-02052386	92.64964	91529844	
9	ARS-BFGL-NGS-117568	92.73791	91555038	
9	BTB-01895465	92.8278	91580703	
9	Hapmap52598-rs29022272	93.15017	91672738	
9	Hapmap42024-BTA-99056	93.50681	91774553	
9	Hapmap43117-BTA-99191	93.8328	91856294	
9	BTA-99061-no-rs	93.94173	91883035	
9	BTA-07298-no-rs	94.08	91919657	
9	BTA-116009-no-rs	94.08	91957395	
9	Hapmap59634-rs29013969	94.13478	92061663	
9	BTA-115744-no-rs	94.15629	92093186	
9	ARS-BFGL-NGS-24141	94.20422	92163441	
9	ARS-BFGL-NGS-29957	94.22472	92193482	
9	BTB-00406396	94.28177	92277085	
9	ARS-BFGL-NGS-101711	94.29749	92300111	
9	Hapmap39594-BTA-84776	94.33156	92350052	
9	Hapmap43080-BTA-84772	94.36578	92400217	
9	BTA-14629-rs29023391	94.38629	92430269	
9	ARS-BFGL-NGS-5159	94.40809	92462210	
9	BTB-00406164	94.42757	92490764	
9	ARS-BFGL-NGS-97534	94.48125	92569439	
9	BTA-84762-no-rs	94.50021	92597218	
9	Hapmap42702-BTA-84760	94.56065	92685796	
9	ARS-BFGL-NGS-21787	94.60001	92743482	
9	BTA-84755-no-rs	94.62029	92773202	
9	BTB-00406083	94.64306	92806579	
9	ARS-BFGL-NGS-118920	94.69206	92878393	
9	Hapmap48921-BTA-84744	94.7729	93000526	
9	BTA-84733-no-rs	94.88744	93094049	
9	ARS-BFGL-NGS-2080	94.9487	93144071	
9	ARS-BFGL-NGS-115094	94.99711	93183596	
9	ARS-BFGL-NGS-57866	95.07376	93246183	
9	ARS-BFGL-NGS-5073	95.15688	93314047	
9	ARS-BFGL-NGS-52931	95.32257	93472326	
9	ARS-BFGL-NGS-111419	95.35947	93520501	
9	ARS-BFGL-NGS-112933	95.38386	93552330	
9	BTA-84778-no-rs	95.48578	93685360	
9	Hapmap54030-rs29026423	95.5211	93731471	
9	Hapmap44147-BTA-84872	95.63824	93884361	
9	ARS-BFGL-NGS-39765	95.65862	93910957	
9	Hapmap49343-BTA-84864	95.77168	94058536	
9	ARS-BFGL-NGS-119034	95.80639	94103850	
9	Hapmap36668-SCAFFOLD65016_14724		95.82133	94123343
9	ARS-BFGL-NGS-114310	95.84529	94154628	

9	ARS-BFGL-NGS-44527	95.9374	94274847
9	BTA-84833-no-rs	96.03912	94407624
9	BTA-84831-no-rs	96.07971	94460606
9	ARS-BFGL-NGS-81082	96.11889	94511747
9	ARS-BFGL-NGS-93641	96.22005	94643772
9	ARS-BFGL-NGS-69908	96.25072	94683820
9	ARS-BFGL-NGS-33437	96.28892	94733670
9	ARS-BFGL-NGS-16920	96.35873	94824800
9	Hapmap60123-rs29018437	96.48643	94991477
9	BTA-24107-no-rs	96.50622	95017314
9	BTA-24108-no-rs	96.52482	95041591
9	BTA-84883-no-rs	96.54305	95065382
9	ARS-BFGL-NGS-110296	96.58	95127819
9	Hapmap23265-BTA-146870	96.58	95149286
9	ARS-BFGL-NGS-15852	96.58	95169727
9	ARS-BFGL-NGS-116567	96.58	95194688
9	ARS-BFGL-NGS-116774	96.58	95264976
9	ARS-BFGL-NGS-59449	96.58	95328754
9	ARS-BFGL-NGS-100271	96.58	95395251
9	ARS-BFGL-NGS-102511	96.58	95425804
9	ARS-BFGL-NGS-55179	96.58	95450193
9	ARS-BFGL-NGS-58059	96.58	95470691
9	ARS-BFGL-NGS-101339	96.74736	95591202
9	ARS-BFGL-NGS-42139	96.7828	95625955
9	ARS-BFGL-NGS-85269	96.82787	95670148
9	ARS-BFGL-NGS-114841	96.8504	95692242
9	ARS-BFGL-NGS-21356	96.88773	95728849
9	Hapmap48097-BTA-84930	96.91882	95759337
9	ARS-BFGL-NGS-62853	96.94986	95789766
9	ARS-BFGL-NGS-61410	97.05402	95891909
9	Hapmap52146-ss46526966	97.11611	95952795
9	BTA-94264-no-rs	97.15528	95991198
9	ARS-BFGL-NGS-103694	97.19528	96030427
9	Hapmap33236-BTA-155516	97.2667	96100458
9	ARS-BFGL-NGS-102803	97.29859	96131728
9	ARS-BFGL-NGS-113972	97.34686	96179058
9	Hapmap57700-rs29024438	97.38429	96215762
9	Hapmap48098-BTA-84937	97.4687	96298532
9	Hapmap58613-rs29012081	97.52367	96352431
9	BTA-84789-no-rs	97.55692	96385031
9	ARS-BFGL-NGS-40929	97.62177	96448625
9	ARS-BFGL-NGS-12503	97.6502	96476505
9	BTA-84792-no-rs	97.688	96513569
9	ARS-BFGL-NGS-63323	97.7344	96559065
9	ARS-BFGL-NGS-38237	97.76949	96593480
9	ARS-BFGL-NGS-100825	97.87186	96693865
9	Hapmap38532-BTA-84823	97.8936	96715173
9	Hapmap41661-BTA-84825	97.94655	96767099
9	ARS-BFGL-NGS-5298	98.1212	96938354
9	ARS-BFGL-NGS-64973	98.20675	97022238
9	ARS-BFGL-NGS-25581	98.2354	97050334
9	ARS-BFGL-NGS-82846	98.28636	97100302
9	ARS-BFGL-NGS-3175	98.37954	97191669
9	ARS-BFGL-NGS-115430	98.40789	97219468
9	ARS-BFGL-NGS-114571	98.50257	97312321
9	BTA-93490-no-rs	98.56912	97377573
9	ARS-BFGL-NGS-117379	98.5892	97397264
9	Hapmap54387-rs29020464	98.67867	97485003
9	ARS-BFGL-NGS-69094	98.7	97521014

9	ARS-BFGL-NGS-28538	98.7	97584669		
9	Hapmap38533-BTA-84943	98.7638	97624409		
9	ARS-BFGL-NGS-112284	98.81924	97647025		
9	ARS-BFGL-NGS-23123	98.93457	97694082		
9	ARS-BFGL-NGS-119644	99.02842	97732365		
9	ARS-BFGL-NGS-100350	99.09734	97760489		
9	ARS-BFGL-NGS-119453	99.1718	97790864		
9	Hapmap48923-BTA-85080	99.25641	97825385		
9	Hapmap47120-BTA-85079	99.37288	97872904		
9	ARS-BFGL-NGS-3314	99.44289	97901467		
9	ARS-BFGL-NGS-102854	99.51138	97929407		
9	BTA-84960-no-rs	99.67093	97994503		
9	ARS-BFGL-NGS-92523	99.7392	98022359		
9	Hapmap42703-BTA-84963	99.80001	98047172		
9	ARS-BFGL-NGS-103746	99.88474	98094492		
9	Hapmap49777-BTA-84987	99.89439	98124370		
9	Hapmap41988-BTA-84944	99.90446	98155499		
9	ARS-BFGL-NGS-95100	99.93356	98245564		
9	ARS-BFGL-NGS-38971	99.95313	98306160		
9	ARS-BFGL-NGS-114715	99.96722	98349764		
9	Hapmap45161-BTA-121933	99.97655	98378633		
9	Hapmap60555-rs29018256	100.0029	98460090		
9	ARS-USMARC-Parent-DQ786765-rs29009858	100.0104	98483346		
9	UA-IFASA-2515	100.0104	98483346		
9	Hapmap39447-BTA-85013	100.0198	98512648		
9	ARS-BFGL-NGS-22058	100.0245	98526918		
9	BTA-75291-no-rs	100.0373	98566722		
9	ARS-BFGL-NGS-11712	100.0468	98595966		
9	BTA-75293-no-rs	100.0636	98648213		
9	Hapmap31124-BTA-146889	100.0884	98724745		
9	ARS-BFGL-NGS-103764	100.0995	98759214		
9	ARS-BFGL-NGS-83787	100.1076	98784166		
9	ARS-BFGL-NGS-20442	100.1194	98820692		
9	Hapmap43375-BTA-85005	100.128	98847521		
9	ARS-BFGL-NGS-70685	100.1374	98876440		
9	ARS-BFGL-NGS-9633	100.1527	98923817		
9	ARS-BFGL-NGS-102054	100.185	99023845		
9	ARS-BFGL-NGS-104698	100.2008	99072838		
9	Hapmap42705-BTA-85041	100.221	99135245		
9	Hapmap50130-BTA-85042	100.2439	99206133		
9	ARS-BFGL-NGS-110002	100.2513	99229165		
9	BTA-85048-no-rs	100.2651	99271707		
9	ARS-BFGL-NGS-66951	100.2919	99354827		
9	Hapmap30268-BTA-146895	100.3054	99396544		
9	Hapmap51327-BTA-85076	100.3987	99685101		
9	ARS-BFGL-NGS-114319	100.5929	99840865		
9	Hapmap43376-BTA-85122	100.6317	99871311		
9	ARS-BFGL-NGS-115765	100.7146	99936460		
9	ARS-BFGL-NGS-5845	100.7687	99978975		
9	BTA-85115-no-rs	100.8244	100022759		
9	Hapmap59467-rs29011362	100.9117	100091317		
9	ARS-BFGL-NGS-113413	100.9401	100113691		
9	ARS-BFGL-NGS-109783	100.9713	100138190		
9	ARS-BFGL-NGS-55675	101.0042	100163987		
9	Hapmap49345-BTA-85101	101.1824	100304045		
9	BTA-85096-no-rs	101.3256	100416580		
9	ARS-BFGL-NGS-114838	101.4898	100545557		
9	ARS-BFGL-NGS-24483	101.5518	100594251		
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9	ARS-BFGL-NGS-10149	101.6883	100683744
9	ARS-BFGL-NGS-10063	101.8297	100742806
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9	Hapmap46887-BTA-85088	101.9667	100800026
9	ARS-BFGL-NGS-78761	102.0333	100827855
9	ARS-BFGL-NGS-29290	102.1887	100892769
9	BTA-108536-no-rs	102.2724	100927731
9	Hapmap41989-BTA-85190	102.4454	100999972
9	Hapmap46889-BTA-85184	102.5521	101044571
9	BTA-85182-no-rs	102.6019	101065362
9	Hapmap51770-BTA-85181	102.68	101113354
9	ARS-BFGL-NGS-52906	102.68	101170043
9	BTA-85169-no-rs	102.68	101286417
9	ARS-BFGL-NGS-4320	102.68	101359409
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9	Hapmap53323-rs29022857	102.68	101433902
9	Hapmap23780-BTA-85163	102.68	101470808
9	ARS-BFGL-NGS-24953	102.68	101517733
9	UA-IFASA-9685	102.68	101640789
9	Hapmap46888-BTA-85152	102.68	101667889
9	ARS-BFGL-NGS-10499	102.68	101726621
9	Hapmap48173-BTA-107833	102.68	101785435
9	ARS-BFGL-NGS-28159	102.68	101844821
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9	Hapmap33100-BTA-97564	102.68	101945908
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9	ARS-BFGL-NGS-60675	102.68	102007389
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9	ARS-BFGL-NGS-23888	103.4602	102758143
9	Hapmap42343-BTA-85195	103.5092	102788323
9	ARS-BFGL-NGS-58052	103.5461	102811076
9	ARS-BFGL-NGS-26554	103.5717	102826828
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9	Hapmap52282-rs29018722	103.8471	102996425
9	BTA-85226-no-rs	103.8905	103023183
9	ARS-BFGL-NGS-114800	103.9237	103043592
9	Hapmap32586-BTA-146939	104.0292	103108622
9	ARS-BFGL-NGS-67540	104.0599	103127530
9	ARS-BFGL-NGS-114891	104.0922	103153156
9	ARS-BFGL-NGS-68458	104.1171	103180423
9	ARS-BFGL-NGS-85461	104.1498	103216021
9	ARS-BFGL-NGS-20741	104.1998	103270667
9	ARS-BFGL-NGS-18856	104.2349	103308910
9	ARS-BFGL-NGS-75115	104.2545	103330374
9	ARS-BFGL-NGS-32490	104.3034	103383683
9	ARS-BFGL-NGS-72792	104.3292	103411929
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9	ARS-BFGL-NGS-35249	104.4152	103505743
9	ARS-BFGL-NGS-87714	104.4505	103544256
9	ARS-BFGL-NGS-113574	104.4748	103570739
9	ARS-BFGL-NGS-119390	104.506	103604815
9	ARS-BFGL-NGS-112262	104.5128	103612265
9	ARS-BFGL-NGS-102044	104.5437	103646025
9	ARS-BFGL-NGS-62112	104.567	103671451



9	ARS-BFGL-NGS-61738	104.5937	103700559
9	ARS-BFGL-NGS-2859	104.6443	103755777
9	ARS-BFGL-NGS-41284	104.664	103777260
9	ARS-BFGL-NGS-6479	104.7054	103822440
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9	ARS-BFGL-NGS-89011	104.8197	103947174
9	ARS-BFGL-NGS-32882	104.9335	104071394
9	ARS-BFGL-NGS-53635	104.9551	104094973
9	ARS-BFGL-NGS-10559	105.0481	104196469
9	ARS-BFGL-NGS-103129	105.1109	104265004
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9	Hapmap40046-BTA-117691	105.1743	104334228
9	ARS-BFGL-NGS-6757	105.2234	104387825
9	ARS-BFGL-NGS-53294	105.2614	104429330
9	ARS-BFGL-NGS-1651	105.3023	104473945
9	ARS-BFGL-NGS-34445	105.3533	104529625
9	ARS-BFGL-NGS-19753	105.3811	104560004
9	Hapmap51347-BTA-90657	105.4053	104586319
9	ARS-BFGL-NGS-87949	105.4881	104676729
9	ARS-BFGL-NGS-1335	105.537	104730150
9	ARS-BFGL-NGS-59530	105.6299	104812132
9	ARS-BFGL-NGS-29898	105.6674	104842677
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9	ARS-BFGL-NGS-83257	105.7404	104902072
9	ARS-BFGL-NGS-114754	105.7699	104926053
9	Hapmap40387-BTA-107848	105.8117	104960154
9	ARS-BFGL-NGS-107084	105.8698	105007436
9	ARS-BFGL-NGS-26776	105.8967	105035231
9	Hapmap38884-BTA-122472	105.9197	105074182
9	ARS-BFGL-NGS-115093	105.9755	105168826
9	ARS-BFGL-NGS-4595	106.0164	105238273
9	ARS-BFGL-NGS-42329	106.0313	105263583
9	ARS-BFGL-NGS-101642	106.0645	105319944
9	ARS-BFGL-NGS-10411	106.0831	105351459
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10	ARS-BFGL-NGS-6048	1.102971	41893
10	ARS-BFGL-NGS-102129	2.050249	1034726
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10	Hapmap39478-BTA-26135	2.295547	1250058
10	Hapmap53069-rs29027129	2.357127	1304115
10	ARS-BFGL-NGS-40761	2.450913	1386444
10	Hapmap46920-BTA-106148	2.482163	1413876
10	BTA-107452-no-rs	2.55671	1479316
10	ARS-BFGL-NGS-17009	2.602363	1519392
10	ARS-BFGL-NGS-31475	2.646746	1558353
10	ARS-BFGL-NGS-92626	2.708217	1612315
10	BTA-07939-rs29027600	3.567828	1783418
10	Hapmap55445-rs29014484	4.546414	1979167
10	ARS-BFGL-NGS-119719	4.68294	2013047
10	ARS-BFGL-NGS-2270	4.948914	2079050
10	ARS-BFGL-NGS-67883	5.114438	2120126
10	BTA-20613-no-rs	5.57	2244249
10	Hapmap50615-BTA-20585	5.592876	2290464
10	ARS-BFGL-NGS-103363	5.614957	2312674
10	BTA-20597-no-rs	5.638086	2335938

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10	Hapmap49460-BTA-114998	5.746925	2445414		
10	ARS-BFGL-NGS-23526	5.842184	2541230		
10	ARS-BFGL-NGS-40198	5.917806	2617295		
10	Hapmap42821-BTA-115000	5.941261	2640887		
10	Hapmap48018-BTA-60331	6.891533	2729641		
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10	ARS-BFGL-NGS-77658	8.727747	2898111		
10	Hapmap57631-rs29027204	9.225847	2943811		
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10	ARS-BFGL-NGS-106325	11.41199	3274229		
10	BTB-01229409	11.50329	3308836		
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10	Hapmap23546-BTA-155154	11.91789	3465975		
10	ARS-BFGL-NGS-112670	11.97781	3488689		
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10	Hapmap59914-rs29012068	12.08827	3530555		
10	BTB-01575798	12.16447	3559435		
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10	Hapmap46615-BTA-95810	12.66663	3749763		
10	ARS-BFGL-NGS-91238	12.80997	3804091		
10	ARS-BFGL-NGS-43692	13.0444	3892947		
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10	ARS-BFGL-NGS-108526	13.30346	3991135		
10	ARS-BFGL-NGS-88819	13.54245	4081718		
10	ARS-BFGL-NGS-96591	13.74184	4157289		
10	Hapmap32857-BTA-155630	13.92446	4226506		
10	Hapmap56646-rs29022216	14.00065	4255382		
10	ARS-BFGL-NGS-39354	14.05422	4275686		
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10	Hapmap25493-BTA-109827	14.3398	4383927		
10	Hapmap22809-BTA-155621	14.42596	4415581		
10	Hapmap41475-BTA-20524	14.55655	4462220		
10	Hapmap41235-BTA-34298	14.65386	4496977		
10	Hapmap51406-BTA-120988	14.75794	4534148		
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10	Hapmap53305-rs29024571	15.40862	4766547		
10	ARS-BFGL-NGS-58299	15.53258	4888243		
10	ARS-BFGL-BAC-12296	15.59494	4915750		
10	ARS-BFGL-NGS-42498	15.71366	4968122		
10	BTA-121980-no-rs	15.89701	5049003		
10	Hapmap47695-BTA-67198	16.04855	5115850		
10	BTA-18928-no-rs	16.10443	5140497		
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10	BTA-75317-no-rs	16.67671	5392944		
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10	ARS-BFGL-NGS-60051	16.77739	5437359		
10	ARS-BFGL-NGS-36005	16.92606	5502939		
10	ARS-BFGL-NGS-33007	17.01122	5540505		

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10	BTA-22344-no-rs	17.14334	5598788	
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10	Hapmap35453-SCAFFOLD669_15136	17.90446	5934534	
10	ARS-BFGL-NGS-117533	17.98137	5968459	
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10	ARS-BFGL-NGS-114662	18.27269	6096967	
10	ARS-BFGL-NGS-8201	18.33802	6125786	
10	ARS-BFGL-NGS-110364	18.56282	6224953	
10	ARS-BFGL-BAC-12289	18.60448	6243331	
10	ARS-BFGL-NGS-111453	18.89927	6373370	
10	ARS-BFGL-NGS-61586	18.98955	6413192	
10	ARS-BFGL-NGS-28605	19.05882	6443750	
10	ARS-BFGL-NGS-4488	19.1325	6476252	
10	ARS-BFGL-NGS-18543	19.23616	6521978	
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10	BTA-23236-no-rs	19.46078	6621061	
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10	ARS-BFGL-NGS-115918	19.60247	6683566	
10	Hapmap40077-BTA-62305	19.81374	6775423	
10	ARS-BFGL-NGS-107843	19.886	6804435	
10	BTA-62267-no-rs	20.05233	6871209	
10	ARS-BFGL-NGS-34208	20.43637	7025392	
10	Hapmap38331-BTA-61256	20.57908	7082683	
10	BTA-60292-no-rs	21.09436	7308238	
10	Hapmap48017-BTA-60281	21.13311	7329188	
10	ARS-BFGL-NGS-117680	21.19349	7361825	
10	Hapmap39848-BTA-59393	21.24496	7389647	
10	ARS-BFGL-NGS-3678	21.36121	7452486	
10	ARS-BFGL-NGS-105248	21.4311	7490264	
10	ARS-BFGL-NGS-108122	21.48918	7521659	
10	Hapmap31071-BTA-125074	21.53913	7548661	
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10	ARS-BFGL-NGS-37053	21.73128	7652531	
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10	BTA-118104-no-rs	21.87277	7729010	
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10	ARS-BFGL-NGS-87466	22.0596	7830003	
10	ARS-BFGL-NGS-108825	22.17859	7894323	
10	ARS-BFGL-NGS-8362	22.2691	7943252	
10	BTA-63312-no-rs	22.54106	8090259	
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10	Hapmap23512-BTA-125084	22.80419	8232496	
10	ARS-BFGL-NGS-97105	22.85199	8255705	
10	Hapmap40015-BTA-64391	23.08736	8331353	
10	ARS-BFGL-NGS-101262	23.21146	8371239	
10	ARS-USMARC-186	23.28442	8394690	
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10	ARS-BFGL-NGS-38106	23.91234	8596504	
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10	ARS-BFGL-NGS-111863	26.81805	10072183
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10	ARS-BFGL-NGS-16712	26.99076	10164273
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10	ARS-BFGL-NGS-30509	27.79	11126992
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10	ARS-BFGL-NGS-37609	27.79	11177371
10	BTB-00407929	27.79	11215414
10	BTB-00407977	27.79	11252642
10	BTA-74285-no-rs	27.79144	11294250
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10	ARS-BFGL-NGS-111486	28.06935	11419926
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10	BTB-00411248	28.21219	11484520
10	BTB-02050962	28.32232	11534325
10	BTB-01661291	28.38636	11563286
10	BTB-00411310	28.45354	11593666
10	BTB-01812866	28.58697	11654004
10	Hapmap53112-rs29024630	28.64517	11680324
10	Hapmap41096-BTA-84486	28.83943	11768173
10	ARS-BFGL-NGS-2802	28.94755	11817063
10	BTB-00411816	29.12949	11899342
10	ARS-BFGL-NGS-53129	29.19836	11930486
10	BTB-00412151	29.39678	12020216
10	BTB-00412175	29.48294	12059178
10	Hapmap43706-BTA-84489	29.54159	12085703
10	ARS-BFGL-NGS-105394	29.60996	12116620
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10	ARS-BFGL-NGS-34980	29.84915	12224784

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10	Hapmap32904-BTA-84499	30.12824	12350996
10	ARS-BFGL-NGS-80025	30.20624	12386269
10	ARS-BFGL-NGS-92296	30.26486	12412780
10	ARS-BFGL-NGS-26745	30.34315	12448185
10	ARS-BFGL-NGS-94704	30.42794	12486527
10	Hapmap51066-BTA-84509	30.50014	12519179
10	Hapmap56722-rs29026872	30.55834	12545495
10	Hapmap54740-rs29013264	30.70019	12609643
10	BTB-01605503	30.8108	12659662
10	ARS-BFGL-NGS-104225	30.91644	12707435
10	ARS-BFGL-NGS-108679	30.96275	12728376
10	ARS-BFGL-NGS-37335	31.00886	12749231
10	Hapmap53235-rs29021091	31.03584	12761429
10	ARS-BFGL-NGS-41420	31.07	12790971
10	ARS-BFGL-NGS-6411	31.07	12812193
10	ARS-BFGL-NGS-17452	31.07347	12834288
10	ARS-BFGL-NGS-103122	31.16661	12870180
10	ARS-BFGL-NGS-102220	31.23866	12897944
10	BTB-00409355	31.3019	12922313
10	Hapmap41635-BTA-77313	31.47554	12961478
10	ARS-BFGL-NGS-24706	31.74543	12992411
10	ARS-BFGL-NGS-113038	31.81861	13016466
10	ARS-BFGL-NGS-105416	31.89066	13040145
10	ARS-BFGL-NGS-9514	32.14694	13124380
10	ARS-BFGL-NGS-71414	32.26368	13162750
10	Hapmap54283-ss46526290	32.35928	13194173
10	ARS-BFGL-NGS-10138	32.4961	13239142
10	ARS-BFGL-NGS-19609	32.58642	13268829
10	BTB-00410755	32.65274	13290627
10	BTB-00675323	32.73578	13317919
10	ARS-BFGL-NGS-5274	32.88313	13366352
10	BTB-00410708	32.94479	13386617
10	ARS-BFGL-NGS-116295	33.01005	13408067
10	ARS-BFGL-BAC-13545	33.09614	13436362
10	ARS-BFGL-NGS-97461	33.17802	13463275
10	BTB-00410615	33.24281	13484569
10	BTB-00410577	33.49464	13567343
10	UA-IFASA-7255	33.61428	13606664
10	ARS-BFGL-NGS-5321	33.71901	13641088
10	ARS-BFGL-NGS-71024	33.77393	13684162
10	ARS-BFGL-NGS-117447	33.79974	13704613
10	ARS-BFGL-NGS-38579	33.84092	13737253
10	ARS-BFGL-NGS-95091	33.86833	13758980
10	Hapmap40818-BTA-81387	33.91492	13795916
10	ARS-BFGL-NGS-10428	33.94893	13822864
10	ARS-BFGL-NGS-106435	33.98655	13852686
10	ARS-BFGL-NGS-100004	34.22525	13932162
10	UA-IFASA-9239	34.33411	13962760
10	BTB-00410322	34.43438	13990943
10	BTB-00410309	34.60147	14037907
10	ARS-BFGL-NGS-15334	34.69127	14063148
10	ARS-BFGL-NGS-3249	34.78031	14088176
10	BTB-00410198	34.92791	14129663
10	ARS-BFGL-BAC-13546	35.08216	14173020
10	ARS-BFGL-NGS-115059	35.18113	14200836
10	ARS-BFGL-NGS-87702	35.37766	14256075
10	Hapmap51496-BTA-79294	35.49292	14288475

10	ARS-BFGL-NGS-11874	35.79313	14388574	
10	ARS-BFGL-NGS-32952	35.87519	14424153	
10	ARS-BFGL-NGS-113961	36.0846	14514931	
10	Hapmap25018-BTA-125160	36.17567	14554414	
10	ARS-BFGL-NGS-70946	36.2219	14574453	
10	ARS-BFGL-NGS-39179	36.28395	14616020	
10	ARS-BFGL-NGS-14122	36.28943	14638720	
10	ARS-BFGL-NGS-18282	36.29962	14680950	
10	Hapmap38805-BTA-104874	36.30906	14720037	
10	BTA-12897-no-rs	36.33612	14832153	
10	ARS-BFGL-NGS-92657	36.389	15051277	
10	Hapmap56407-rs29020937	36.39419	15072778	
10	ARS-BFGL-NGS-29714	36.40126	15102064	
10	ARS-BFGL-NGS-76838	36.40716	15126517	
10	ARS-BFGL-NGS-119197	36.41615	15163788	
10	ARS-BFGL-NGS-117894	36.42553	15202658	
10	ARS-BFGL-NGS-29149	36.44825	15228026	
10	ARS-BFGL-NGS-68425	36.53891	15262140	
10	ARS-BFGL-NGS-112323	36.63499	15298290	
10	Hapmap47338-BTA-59326	36.72835	15333419	
10	ARS-BFGL-NGS-12605	36.79112	15357040	
10	ARS-BFGL-NGS-93718	36.94141	15413589	
10	ARS-BFGL-NGS-92069	37.06427	15459816	
10	ARS-BFGL-NGS-4970	37.15196	15492812	
10	ARS-BFGL-NGS-90657	37.24657	15528411	
10	Hapmap35960-SCAFFOLD231091_2678		37.37764	15577727
10	ARS-BFGL-NGS-6488	37.47892	15615838	
10	ARS-BFGL-NGS-19415	37.58127	15654348	
10	ARS-BFGL-NGS-61618	37.72223	15707389	
10	ARS-BFGL-NGS-119196	37.98287	15806087	
10	ARS-BFGL-NGS-116307	38.09655	15849166	
10	ARS-BFGL-NGS-44234	38.17304	15878155	
10	ARS-BFGL-NGS-118236	38.32481	15935671	
10	Hapmap47826-BTA-107963	38.42727	15974499	
10	ARS-BFGL-BAC-14174	38.80391	16117231	
10	ARS-BFGL-NGS-5722	38.86414	16140054	
10	ARS-BFGL-NGS-113265	38.92219	16162053	
10	ARS-BFGL-NGS-16604	39.00039	16191688	
10	ARS-BFGL-NGS-87552	39.35704	16326848	
10	BTA-83414-no-rs	39.58264	16412340	
10	ARS-BFGL-NGS-64755	39.63642	16432723	
10	ARS-BFGL-NGS-43079	39.71075	16460889	
10	ARS-BFGL-NGS-116044	39.78088	16487469	
10	ARS-BFGL-NGS-110064	39.87791	16524236	
10	ARS-BFGL-NGS-114232	39.94157	16548361	
10	ARS-BFGL-BAC-14169	39.98129	16569032	
10	BTA-83386-no-rs	40.02429	16606724	
10	ARS-BFGL-NGS-4201	40.05064	16629826	
10	ARS-BFGL-NGS-1361	40.11531	16686511	
10	ARS-BFGL-NGS-36287	40.17475	16738622	
10	ARS-BFGL-NGS-84998	40.37071	16819310	
10	BTA-83372-no-rs	40.45881	16854458	
10	Hapmap39240-BTA-83371	40.51054	16875097	
10	ARS-BFGL-NGS-30236	40.58191	16903570	
10	ARS-BFGL-NGS-66929	40.78677	16985300	
10	ARS-BFGL-NGS-114309	40.91735	17037395	
10	ARS-BFGL-NGS-82984	41.07537	17100439	
10	ARS-BFGL-NGS-85695	41.1441	17127861	
10	ARS-BFGL-NGS-20450	41.34803	17209221	

10	ARS-BFGL-NGS-22837	41.60349	17311138	
10	ARS-BFGL-NGS-28776	41.75448	17377774	
10	ARS-BFGL-NGS-117735	41.79033	17407918	
10	Hapmap40220-BTA-60296	41.93432	17528963	
10	ARS-BFGL-NGS-35076	41.96785	17557149	
10	Hapmap38385-BTA-120800	42.08493	17655576	
10	ARS-BFGL-NGS-88284	42.11814	17683504	
10	BTA-59410-no-rs	42.17451	17730891	
10	ARS-BFGL-NGS-28278	42.2305	17777955	
10	ARS-BFGL-NGS-25507	42.29759	17834362	
10	ARS-BFGL-NGS-99693	42.33642	17867003	
10	Hapmap47670-BTA-60313	42.44168	17955497	
10	ARS-BFGL-NGS-94247	42.54438	18041832	
10	Hapmap53482-rs29025357	42.59792	18086840	
10	ARS-BFGL-NGS-101031	42.63245	18115876	
10	ARS-BFGL-NGS-35904	42.70296	18175151	
10	ARS-BFGL-NGS-22303	42.76901	18230679	
10	Hapmap35424-SCAFFOLD125215_9058	42.79406	18251738	
10	BTA-17502-no-rs	42.83651	18287420	
10	ARS-BFGL-NGS-107048	42.96492	18395377	
10	ARS-BFGL-NGS-21217	42.99449	18420234	
10	ARS-BFGL-NGS-117076	43.02039	18442011	
10	Hapmap32896-BTA-59412	43.07998	18492108	
10	ARS-BFGL-NGS-74837	43.11299	18519852	
10	ARS-BFGL-NGS-21879	43.16548	18563984	
10	ARS-BFGL-NGS-15813	43.17847	18574907	
10	ARS-BFGL-NGS-26461	43.24424	18630194	
10	ARS-BFGL-NGS-52539	43.37956	18743955	
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10	BTA-28297-no-rs	43.59438	18811354	
10	Hapmap49943-BTA-28302	43.72171	18844246	
10	ARS-BFGL-BAC-10952	43.86	18882288	
10	Hapmap39474-BTA-19488	43.86	18921165	
10	ARS-BFGL-NGS-113726	43.86	18955979	
10	ARS-BFGL-NGS-32828	43.86	18983183	
10	Hapmap48821-BTA-59356	43.86	19017657	
10	ARS-BFGL-NGS-118357	43.86	19053897	
10	ARS-BFGL-NGS-43105	43.86	19095908	
10	ARS-BFGL-NGS-53772	43.86	19121922	
10	ARS-BFGL-NGS-116331	43.86	19301043	
10	Hapmap46308-BTA-59382	43.86	19366262	
10	ARS-BFGL-NGS-66778	43.86	19405189	
10	ARS-BFGL-NGS-22915	43.86	19436488	
10	BTA-59388-no-rs	44.07682	19466902	
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10	ARS-BFGL-NGS-104202	44.44154	19565941	
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10	BTA-59405-no-rs	44.51	19617303	
10	Hapmap42119-BTA-16944	44.52374	19667613	
10	ARS-BFGL-NGS-6765	44.54407	19696833	
10	ARS-BFGL-NGS-115332	44.56135	19721672	
10	Hapmap43979-BTA-97666	44.58486	19755465	
10	Hapmap60219-rs29009655	44.61112	19793211	
10	ARS-BFGL-NGS-23190	44.66582	19871847	
10	Hapmap49474-BTA-117913	44.70267	19924813	
10	ARS-BFGL-NGS-103140	44.72074	19950788	
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10	ARS-BFGL-NGS-79056	44.77637	20030762	

10	Hapmap47849-BTA-117910	44.79034	20050839
10	ARS-BFGL-NGS-89500	44.83665	20117400
10	Hapmap27210-BTA-158247	44.85662	20146107
10	ARS-BFGL-NGS-74184	44.89622	20203040
10	Hapmap43780-BTA-117922	44.91451	20229329
10	ARS-BFGL-NGS-29616	44.97967	20322987
10	ARS-BFGL-NGS-112739	45.00528	20359799
10	ARS-BFGL-NGS-6949	45.02538	20388692
10	ARS-BFGL-NGS-33553	45.07692	20462779
10	Hapmap57100-rs29013509	45.10148	20498087
10	ARS-BFGL-NGS-35454	45.13797	20550545
10	ARS-BFGL-NGS-57195	45.15853	20580094
10	ARS-BFGL-BAC-10960	45.17881	20609250
10	ARS-BFGL-NGS-42236	45.19753	20636156
10	ARS-BFGL-NGS-44623	45.21948	20667710
10	ARS-BFGL-NGS-110110	45.23755	20693677
10	ARS-BFGL-NGS-114137	45.25681	20721372
10	UA-IFASA-5066	45.28588	20763153
10	ARS-BFGL-BAC-10972	45.30647	20792754
10	ARS-BFGL-NGS-67833	45.32595	20820760
10	ARS-BFGL-NGS-52654	45.38072	20899486
10	ARS-BFGL-NGS-19848	45.40381	20932671
10	ARS-BFGL-NGS-33923	45.48757	21053074
10	ARS-BFGL-NGS-64841	45.52381	21105172
10	ARS-BFGL-NGS-10121	45.54224	21131661
10	ARS-BFGL-NGS-36689	45.56836	21169216
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10	ARS-BFGL-BAC-10975	45.60744	21225382
10	ARS-BFGL-NGS-101359	45.64181	21274787
10	ARS-BFGL-NGS-112908	45.67974	21329317
10	BTA-61228-no-rs	45.80971	21516136
10	Hapmap47676-BTA-61231	45.87144	21604877
10	ARS-BFGL-NGS-54655	45.92264	21678471
10	BTA-61235-no-rs	45.93687	21698931
10	Hapmap38616-BTA-61236	45.9859	21769407
10	Hapmap41917-BTA-61237	46.0029	21793838
10	ARS-BFGL-NGS-41194	46.01845	21816199
10	ARS-BFGL-NGS-91109	46.05251	21865155
10	ARS-BFGL-NGS-64602	46.12167	21986516
10	ARS-BFGL-NGS-102029	46.14273	22056376
10	ARS-BFGL-NGS-19822	46.16454	22128700
10	ARS-BFGL-BAC-11616	46.1737	22159072
10	ARS-BFGL-NGS-100895	46.18315	22190416
10	ARS-BFGL-NGS-26125	46.19432	22227480
10	Hapmap47763-BTA-87494	46.20955	22278002
10	ARS-BFGL-NGS-112477	46.228	22339193
10	Hapmap32589-BTA-147560	47.369	24301480
10	Hapmap57900-rs29027640	49.34074	25598535
10	ARS-BFGL-NGS-96824	49.43513	25706139
10	Hapmap58585-ss46526902	49.46671	25732248
10	ARS-BFGL-NGS-32292	49.65042	25884143
10	Hapmap50418-BTA-61313	49.70623	25930288
10	ARS-BFGL-NGS-54940	49.75749	25972663
10	ARS-BFGL-NGS-42815	49.85593	26054054
10	ARS-BFGL-NGS-118433	49.88637	26079224
10	ARS-BFGL-NGS-101502	49.96139	26141254
10	ARS-BFGL-NGS-23266	49.9921	26173687
10	Hapmap53764-ss46526975	50.0198	26289588
10	ARS-BFGL-NGS-111228	50.02847	26325867



10	BTA-93819-no-rs	50.03839	26367364	
10	ARS-BFGL-NGS-24739	50.04	26406685	
10	Hapmap47352-BTA-62263	50.04	26431631	
10	ARS-BFGL-NGS-111541	50.04	26479738	
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10	BTB-01643848	50.10577	26589153	
10	Hapmap54726-rs29023280	50.18121	26614696	
10	Hapmap41751-BTA-110011	50.25769	26640590	
10	BTB-01643954	50.33547	26666923	
10	ARS-BFGL-NGS-118210	50.43483	26700563	
10	ARS-BFGL-NGS-3406	50.51839	26728855	
10	Hapmap33849-BES3_Contig195_423		50.63356	26767851
10	BTB-00414172	50.72216	26797848	
10	Hapmap44553-BTA-62251	50.78085	26826138	
10	BTB-00414242	50.81623	26852413	
10	Hapmap41316-BTA-62253	50.86021	26885064	
10	ARS-BFGL-NGS-29569	50.92049	26929817	
10	ARS-BFGL-BAC-11598	50.97898	26973237	
10	Hapmap50608-BTA-17803	51.02172	27004974	
10	Hapmap55141-rs29022126	51.06256	27035295	
10	ARS-BFGL-NGS-117966	51.14824	27098905	
10	Hapmap33023-BTA-145306	51.21493	27148415	
10	ARS-BFGL-NGS-106888	51.24556	27171152	
10	ARS-BFGL-BAC-11612	51.31995	27228918	
10	UA-IFASA-4465	51.3912	27299922	
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10	Hapmap47512-BTA-114443	51.57774	27485823	
10	BTB-00418037	51.63951	27547387	
10	BTB-01402397	51.68221	27589941	
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10	BTB-00417947	51.78523	27697177	
10	BTB-00417797	51.86605	27848264	
10	BTB-00916849	51.9339	27975098	
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10	BTB-00916903	51.98477	28070182	
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10	BTB-00417533	52.03938	28172262	
10	BTB-00417496	52.05582	28203009	
10	BTB-01967493	52.07096	28231304	
10	ARS-BFGL-NGS-44351	52.12542	28333105	
10	BTB-00414548	52.18032	28435750	
10	BTB-00414590	52.20169	28475700	
10	BTB-00414664	52.2191	28508237	
10	ARS-BFGL-NGS-100945	52.49958	28576348	
10	ARS-BFGL-NGS-87659	52.62803	28599096	
10	Hapmap61083-rs29009928	52.7719	28624573	
10	Hapmap55635-rs29018189	52.89857	28647003	
10	BTB-00415258	52.92	28680745	
10	BTB-00415335	52.92337	28703125	
10	Hapmap43516-BTA-22426	52.97786	28751801	
10	ARS-BFGL-NGS-39469	53.01159	28781938	
10	BTA-62303-no-rs	53.18562	28838152	
10	ARS-BFGL-NGS-113874	53.35574	28889886	
10	ARS-BFGL-NGS-35266	53.57859	28970257	
10	Hapmap48539-BTA-97781	53.65134	28996491	
10	BTB-00415635	53.73962	29028329	
10	BTB-00415713	53.98555	29117018	

10	Hapmap39668-BTA-62307	54.0651	29145709	
10	BTA-62308-no-rs	54.14984	29176267	
10	Hapmap41918-BTA-62309	54.24319	29209932	
10	ARS-BFGL-BAC-11627	54.31874	29237179	
10	ARS-BFGL-NGS-75359	54.43217	29278086	
10	BTB-01723197	54.6028	29339622	
10	ARS-BFGL-NGS-12842	54.70186	29375348	
10	BTB-01443029	54.76582	29398414	
10	BTB-01443064	54.83005	29421576	
10	ARS-BFGL-NGS-38517	54.93555	29459625	
10	ARS-BFGL-NGS-119121	55.04604	29499473	
10	ARS-BFGL-NGS-100849	55.15355	29538245	
10	BTA-63344-no-rs	55.79934	29644914	
10	BTA-118738-no-rs	55.92059	29681194	
10	BTB-01261410	55.92243	29751813	
10	ARS-BFGL-NGS-101955	55.92269	29761646	
10	Hapmap25793-BTA-125304	55.92336	29787321	
10	ARS-BFGL-NGS-46096	55.92465	29836917	
10	ARS-BFGL-NGS-22860	55.92539	29865159	
10	ARS-BFGL-NGS-22407	56.39729	30159278	
10	ARS-BFGL-NGS-44346	56.77837	30265387	
10	ARS-BFGL-NGS-54733	57.11287	30367930	
10	Hapmap39767-BTA-63294	57.79562	30654569	
10	Hapmap43813-BTA-22578	58.18842	30774096	
10	BTA-25531-no-rs	58.31131	30811491	
10	BTA-63304-no-rs	58.44535	30852279	
10	BTB-00416866	59.1396	31043847	
10	BTB-00416868	59.21648	31065016	
10	BTB-00416921	59.46426	31162777	
10	BTB-00416964	59.6084	31326738	
10	BTB-00417029	59.64164	31364551	
10	BTB-00417053	59.667	31393400	
10	BTB-01721539	59.71054	31442937	
10	Hapmap39053-BTA-122521	59.72967	31464687	
10	BTA-89103-no-rs	59.7642	31503971	
10	ARS-BFGL-NGS-38731	59.78383	31526298	
10	BTB-00416705	59.82608	31574360	
10	BTA-63297-no-rs	59.86815	31622218	
10	BTB-01404241	59.90069	31659230	
10	Hapmap40088-BTA-89101	59.9296	31692125	
10	BTB-00747762	59.94	31735444	
10	BTB-00416788	59.94	31790948	
10	BTB-00416806	59.94	31838388	
10	Hapmap59235-rs29019500	59.94568	31874909	
10	BTA-113926-no-rs	59.95686	31911709	
10	BTB-00415821	60.05103	32221643	
10	Hapmap39669-BTA-62312	60.06276	32260224	
10	BTB-00415881	60.07348	32295516	
10	ARS-BFGL-NGS-92135	60.08481	32332809	
10	BTB-00416033	60.09417	32363634	
10	BTB-00416055	60.10189	32389035	
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10	BTA-109243-no-rs	60.3539	33218475
10	Hapmap49430-BTA-107417	60.392	33343859
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10	Hapmap48280-BTA-29580	60.41564	33421653
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10	Hapmap54530-rs29013224	60.53154	33658021
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10	Hapmap55240-rs29011308	60.62389	33774666
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10	BTA-65330-no-rs	60.70569	33877992
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10	Hapmap51404-BTA-120806	60.80077	33998082
10	Hapmap50429-BTA-64384	60.83632	34042986
10	BTB-00418112	60.86888	34084113
10	BTA-64379-no-rs	60.91146	34137897
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10	Hapmap54804-rs29015126	60.99073	34238025
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10	Hapmap59550-rs29015924	61.28027	34603750
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10	ARS-BFGL-NGS-503	61.36073	34705386
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10	Hapmap55041-rs29017491	61.7625	35212871
10	Hapmap40785-BTA-66290	61.79092	35248762
10	Hapmap54460-rs29016462	61.80702	35269105
10	ARS-BFGL-NGS-75228	61.84154	35312701
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10	ARS-BFGL-NGS-41641	62.30909	35903273
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10	Hapmap55209-rs29013243	62.33	36131687
10	Hapmap25503-BTA-125443	62.33	36204749
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10	BTA-66268-no-rs	62.46644	36374166
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10	BTA-66230-no-rs	62.87513	36807581
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10	BTA-117973-no-rs	63.82	42189473	
10	BTA-117971-no-rs	63.82	42217845	
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10	Hapmap34362-BES11_Contig425_1305	64.80319	43669993	
10	BTA-67195-no-rs	64.87831	43773196	

10	BTA-90556-no-rs	64.97208	43917013	
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10	ARS-BFGL-NGS-118414	65.16286	44209604	
10	Hapmap34336-BES7_Contig511_2306	65.19249	44255052	
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10	BTB-00544666	65.24109	44329584	
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10	Hapmap49918-BTA-22571	65.29845	44417569	
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10	BTB-00979154	65.36627	44521573	
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10	Hapmap56574-rs29026819	65.41829	44601357	
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10	BTA-108060-no-rs	65.50465	44733798	
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10	ARS-BFGL-NGS-25177	65.57867	44847319	
10	Hapmap51024-BTA-67203	65.59248	44868505	
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10	BTB-00420215	65.62658	44920804	
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10	Hapmap47696-BTA-67199	65.68706	45013558	
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10	Hapmap42289-BTA-67247	65.72356	45069536	
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10	ARS-BFGL-NGS-110134	65.86642	45288657	
10	Hapmap53059-rs17871435	65.88936	45323831	
10	Hapmap52043-rs29027593	65.90766	45351906	
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10	Hapmap24529-BTA-125471	65.96288	45436582	
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10	BTB-00421066	66.00876	45506957	
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10	ARS-BFGL-NGS-76427	66.76443	46665928	
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10	ARS-BFGL-NGS-118656	67.41532	47664187	
10	BTB-00422869	67.43176	47689396	
10	ARS-BFGL-NGS-104551	67.45298	47721937	
10	BTB-00422746	67.47208	47751227	
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10	ARS-BFGL-NGS-21988	67.53172	47842705	
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10	ARS-BFGL-NGS-101904	67.5665	47896045	
10	Hapmap36641-SCAFFOLD21136_2257	67.585	47924420	
10	ARS-BFGL-NGS-64260	67.59852	47945151	
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10	Hapmap50440-BTA-68229	67.78134	48225546	
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10	Hapmap59320-rs29015700	67.90919	48421615	
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10	ARS-BFGL-NGS-117876	67.96187	48502416	
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10	BTA-69321-no-rs	68.32456	49058682	
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10	Hapmap44480-BTA-70216	68.57029	49435552
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10	ARS-BFGL-NGS-20006	68.61454	49503411
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10	BTA-70211-no-rs	68.67378	49594273
10	BTB-00380148	68.69372	49624848
10	ARS-BFGL-BAC-11666	68.71417	49656226
10	BTA-70186-no-rs	68.77962	49749367
10	BTB-00426704	68.81242	49791638
10	Hapmap43913-BTA-70188	68.83891	49825804
10	ARS-BFGL-NGS-86147	68.86241	49856100
10	BTB-00426818	68.88854	49889790
10	ARS-BFGL-NGS-88023	68.9109	49918624
10	ARS-BFGL-NGS-70374	68.92942	49942490
10	BTB-00427118	69.04122	50086640
10	Hapmap46718-BTA-70192	69.05856	50108987
10	BTB-00427152	69.13956	50213424
10	Hapmap53900-rs29027193	69.16871	50251003
10	ARS-BFGL-NGS-42256	69.1928	50282066
10	BTB-00427376	69.24809	50353345
10	BTA-70195-no-rs	69.27436	50387217
10	BTB-02009817	69.29029	50407755
10	Hapmap50870-BTA-111277	69.31941	50445303
10	BTB-01780583	69.35073	50485686
10	ARS-BFGL-NGS-15394	69.39128	50537966
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10	Hapmap51989-BTA-92903	69.48779	50680586
10	BTB-01434144	69.50059	50705459
10	Hapmap54762-rs29012389	69.52203	50747119
10	ARS-BFGL-NGS-8836	69.54402	50789886
10	Hapmap45147-BTA-106533	69.58353	50866684
10	ARS-BFGL-NGS-11399	69.6103	50918709
10	ARS-BFGL-NGS-5470	69.62315	50943688
10	BTB-00428084	69.67137	51037416
10	BTB-00428016	69.70567	51104105
10	ARS-BFGL-NGS-92694	69.72089	51133677
10	ARS-BFGL-NGS-101657	69.73231	51155876
10	BTB-00427715	69.76763	51224528
10	ARS-BFGL-NGS-100387	69.7785	51245656
10	ARS-BFGL-NGS-53671	69.7909	51269761
10	ARS-BFGL-NGS-21533	69.81056	51307984
10	ARS-BFGL-NGS-100399	69.8492	51383075
10	BTB-00992193	69.86618	51416085
10	BTB-00992186	69.87775	51438567
10	BTB-00426535	69.91075	51502722
10	ARS-BFGL-BAC-12270	69.93967	51558941
10	BTB-00423742	69.97505	51627715
10	Hapmap51622-BTA-69253	69.99023	51657226
10	BTB-00423785	70.00163	51679374
10	BTA-16517-no-rs	70.01997	51715026
10	Hapmap58695-rs29019899	70.03066	51735816
10	BTB-00424023	70.051	51775341
10	BTB-00424008	70.06561	51803725
10	ARS-BFGL-NGS-82941	70.07	51827797



10	ARS-BFGL-NGS-24765	70.07	51850642
10	ARS-BFGL-NGS-91094	70.07	51892644
10	ARS-BFGL-NGS-24556	70.07	51980270
10	Hapmap43018-BTA-69257	70.07	52011775
10	ARS-BFGL-NGS-5130	70.07	52033595
10	Hapmap49275-BTA-69259	70.07	52086383
10	BTB-01984646	70.07	52166976
10	Hapmap51030-BTA-69263	70.07	52190618
10	BTB-00424298	70.07	52220883
10	BTB-00424319	70.07	52244274
10	BTB-01677645	70.07	52280724
10	BTB-01677628	70.07	52303038
10	BTB-00424333	70.08894	52372286
10	Hapmap50760-BTA-69265	70.14474	52442733
10	ARS-BFGL-NGS-30873	70.1618	52464256
10	Hapmap25504-BTA-125586	70.19533	52506582
10	BTB-00424771	70.23678	52558914
10	ARS-BFGL-NGS-72759	70.25733	52584852
10	BTB-00424787	70.27474	52606823
10	BTB-00424791	70.29309	52629991
10	BTB-00424848	70.36012	52714589
10	ARS-BFGL-NGS-6895	70.39268	52755698
10	ARS-BFGL-NGS-82094	70.41345	52781919
10	ARS-BFGL-NGS-77250	70.43913	52814326
10	ARS-BFGL-NGS-14607	70.45695	52836817
10	BTB-00425187	70.47595	52860808
10	Hapmap57591-rs29019736	70.49482	52884624
10	BTA-69288-no-rs	70.53358	52933550
10	ARS-BFGL-NGS-118883	70.58508	52998549
10	ARS-BFGL-NGS-110070	70.61906	53041455
10	BTA-69301-no-rs	70.65001	53080510
10	BTB-00425619	70.67416	53110990
10	BTB-00425665	70.72044	53169423
10	Hapmap44612-BTA-69305	70.76555	53226361
10	ARS-BFGL-NGS-84148	70.81583	53289822
10	BTB-00425787	70.8387	53318692
10	BTB-01047707	70.86501	53351901
10	Hapmap27798-BTA-30644	70.90853	53406835
10	BTA-30638-no-rs	70.94599	53454128
10	ARS-BFGL-NGS-11135	70.96972	53484074
10	Hapmap59000-rs29026853	71.03039	53560658
10	BTB-01137783	71.18893	53661155
10	BTB-01137797	71.28976	53716124
10	Hapmap26429-BTA-150727	71.42647	53790650
10	Hapmap47128-BTA-89018	71.61798	53904445
10	BTA-120184-no-rs	71.68997	53949424
10	BTA-87361-no-rs	71.75049	53987232
10	BTB-01137914	71.79162	54012929
10	BTB-01137887	71.82373	54032992
10	BTA-95978-no-rs	71.90324	54082665
10	BTB-01018269	71.98378	54132987
10	BTB-00429692	72.06199	54181848
10	BTB-00429663	72.10113	54206302
10	ARS-BFGL-NGS-18534	72.16837	54248308
10	ARS-BFGL-NGS-42301	72.23472	54289766
10	ARS-BFGL-BAC-12295	72.31812	54341869
10	BTB-00429342	72.3929	54388591
10	ARS-BFGL-NGS-5533	72.47494	54439847
10	ARS-BFGL-NGS-79865	72.54867	54485911

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10	Hapmap58863-rs29026593	72.63107	54537392		
10	BTB-00429221	72.6638	54557845		
10	ARS-BFGL-NGS-103720	72.78791	54635388		
10	ARS-BFGL-BAC-12297	72.87199	54687920		
10	ARS-BFGL-NGS-106255	72.92271	54719607		
10	ARS-BFGL-BAC-12299	72.94	54735314		
10	Hapmap59551-rs29015976	72.94	54766746		
10	Hapmap29662-BTA-71235	72.94	54787499		
10	Hapmap42649-BTA-71224	72.94	54829993		
10	Hapmap28067-BTA-71220	72.94371	54885960		
10	BTA-71218-no-rs	72.95854	54928495		
10	BTB-00428991	72.99052	55020216		
10	BTB-00431144	73.09616	55323184		
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10	BTB-00430730	73.17029	55535781		
10	BTB-00428180	73.18989	55591993		
10	ARS-USMARC-Parent-DQ984827-rs29012019	73.19682	55611885		
10	Hapmap59786-rs29012019	73.19682	55611885		
10	Hapmap53200-rs29014555	73.20628	55639027		
10	BTA-88344-no-rs	73.23428	55719332		
10	BTB-00430410	73.24545	55751369		
10	Hapmap48866-BTA-71278	73.26025	55773163		
10	BTB-00430224	73.29803	55805448		
10	BTA-03733-no-rs	73.41447	55904933		
10	Hapmap47874-BTA-15255	73.44257	55928939		
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10	ARS-BFGL-NGS-119158	73.5442	56015779		
10	BTB-00430000	73.6097	56071742		
10	BTB-00429961	73.63535	56093653		
10	ARS-BFGL-NGS-21100	73.66257	56116909		
10	BTB-01911175	73.69056	56140822		
10	Hapmap59192-rs29010800	73.73149	56175799		
10	ARS-BFGL-NGS-114252	73.7959	56230832		
10	BTA-70225-no-rs	73.86019	56285758		
10	BTB-00428684	73.88172	56304161		
10	ARS-BFGL-NGS-106042	73.90642	56325260		
10	ARS-BFGL-NGS-39078	73.97578	56384524		
10	BTB-01891590	74.06988	56464919		
10	BTB-01178563	74.20764	56582627		
10	ARS-BFGL-NGS-115499	74.27347	56638876		
10	Hapmap49423-BTA-105416	74.35059	56704765		
10	BTA-105411-no-rs	74.41123	56756581		
10	BTB-01178146	74.45352	56792715		
10	BTA-105432-no-rs	74.47706	56812824		
10	BTB-01178139	74.5108	56841655		
10	BTA-24978-no-rs	74.60774	56924485		
10	BTB-01890015	74.63364	56946611		
10	ARS-BFGL-NGS-43120	74.7729	57065593		
10	BTB-00334796	74.85001	57131487		
10	BTA-66038-no-rs	74.92283	57193699		
10	ARS-BFGL-NGS-19199	74.96006	57518113		
10	BTB-01125780	74.97321	57588822		
10	ARS-BFGL-BAC-14813	74.97749	57611774		
10	ARS-BFGL-NGS-100272	74.98167	57634236		
10	BTB-01125709	74.98743	57665215		
10	BTB-01125700	74.99428	57701989		
10	ARS-BFGL-NGS-19884	75.00497	57759437		

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10	BTB-01125665	75.01865	57832918	
10	BTA-89332-no-rs	75.0246	57864897	
10	Hapmap50802-BTA-85537	75.02939	57890651	
10	ARS-BFGL-NGS-44942	75.0398	57946593	
10	BTA-92498-no-rs	75.05085	58004357	
10	BTA-91406-no-rs	75.06535	58054825	
10	BTB-01125425	75.07158	58076494	
10	Hapmap58597-rs29013533	75.0776	58097440	
10	ARS-BFGL-NGS-36675	75.09276	58150209	
10	BTB-01649091	75.10919	58207411	
10	ARS-BFGL-NGS-57640	75.11639	58232442	
10	BTB-01524979	75.12367	58257801	
10	BTA-100793-no-rs	75.13116	58283850	
10	ARS-BFGL-NGS-91856	75.14114	58318595	
10	ARS-BFGL-NGS-55539	75.18999	58488593	
10	ARS-BFGL-NGS-54405	75.21474	58574738	
10	BTA-114683-no-rs	75.23185	58634276	
10	Hapmap36252-SCAFFOLD195517_10504	75.25295	58707718	
10	Hapmap49031-BTA-114687	75.26426	58775845	
10	Hapmap48867-BTA-71298	75.35914	58963653	
10	BTB-00431287	75.39591	59036433	
10	Hapmap54378-rs29019795	75.41	59064328	
10	ARS-BFGL-NGS-12446	75.42672	59097419	
10	ARS-BFGL-NGS-54030	75.44097	59125626	
10	ARS-BFGL-NGS-12407	75.45412	59151667	
10	BTA-72298-no-rs	75.46897	59181060	
10	BTA-72304-no-rs	75.49419	59230971	
10	ARS-BFGL-NGS-27172	75.57156	59384121	
10	BTA-72321-no-rs	75.58236	59405502	
10	ARS-BFGL-NGS-19567	75.61524	59470586	
10	ARS-BFGL-NGS-84473	75.65908	59557358	
10	BTB-01361971	75.68834	59615280	
10	BTB-01361961	75.70232	59642973	
10	BTB-01361928	75.71496	59667969	
10	ARS-BFGL-NGS-87984	75.74715	59731691	
10	Hapmap51892-BTA-28650	75.76208	59761240	
10	ARS-BFGL-BAC-14805	75.84626	59927870	
10	Hapmap57627-rs29027143	75.86841	59971715	
10	Hapmap50139-BTA-87645	75.91998	60073787	
10	BTA-87642-no-rs	75.93031	60094236	
10	Hapmap44561-BTA-72345	75.96766	60168183	
10	Hapmap47175-BTA-110475	76.01783	60267486	
10	BTB-01956124	76.04533	60321912	
10	ARS-BFGL-NGS-17675	76.13081	60491127	
10	BTB-01837908	76.14922	60527567	
10	ARS-BFGL-NGS-101277	76.19221	60612673	
10	BTA-100511-no-rs	76.38272	60762753	
10	ARS-BFGL-BAC-14808	77.73093	60954731	
10	BTB-00431819	77.84561	61064570	
10	Hapmap53937-rs29025856	77.89207	61109072	
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10	ARS-BFGL-NGS-31807	78.49308	61684704	
10	Hapmap51762-BTA-72357	78.52536	61715619	
10	Hapmap51038-BTA-72356	78.5575	61746412	
10	BTB-00432191	78.58133	61769231	
10	ARS-BFGL-BAC-14792	78.62812	61814049	
10	ARS-BFGL-NGS-94775	78.70249	61885278	

10	BTB-00432352	78.84936	62038632
10	Hapmap47084-BTA-72369	78.88505	62081998
10	ARS-BFGL-BAC-14794	79.00651	62229559
10	Hapmap59097-rs29024832	79.02626	62253559
10	ARS-BFGL-NGS-115613	79.07193	62309052
10	ARS-BFGL-NGS-28353	79.11503	62361408
10	ARS-BFGL-NGS-21404	79.14912	62402837
10	Hapmap38247-BTA-73302	79.19901	62463444
10	ARS-BFGL-NGS-80176	79.30141	62587850
10	BTB-00432889	79.35558	62653672
10	BTA-73310-no-rs	79.37329	62675184
10	ARS-BFGL-NGS-103164	79.47005	62792747
10	ARS-BFGL-NGS-35284	79.49474	62822728
10	BTA-73325-no-rs	79.53911	62876639
10	Hapmap30205-BTA-125698	79.57378	62918771
10	ARS-BFGL-NGS-4898	79.66293	63027070
10	Hapmap53237-rs29021167	79.71922	63095461
10	ARS-BFGL-NGS-34398	79.80808	63166747
10	BTA-73349-no-rs	80.11048	63343168
10	BTA-73352-no-rs	80.21085	63401724
10	BTA-73355-no-rs	80.42118	63586417
10	ARS-BFGL-BAC-14799	80.46584	63629647
10	Hapmap38195-BTA-112765	80.61	63836108
10	ARS-BFGL-NGS-12875	80.61	63901294
10	BTA-73360-no-rs	80.61	63947314
10	Hapmap59063-rs29016349	80.61	64131903
10	Hapmap41699-BTA-96918	80.61	64203232
10	ARS-BFGL-BAC-14182	80.61	64224480
10	ARS-BFGL-BAC-609	80.61	64289128
10	ARS-BFGL-NGS-23742	80.61	64316811
10	Hapmap28142-BTA-161308	80.61	64383926
10	ARS-BFGL-NGS-107098	80.61	64419396
10	Hapmap48188-BTA-112933	80.66389	64483394
10	ARS-BFGL-NGS-117831	80.76631	64594364
10	ARS-BFGL-NGS-15094	80.86989	64706581
10	ARS-BFGL-NGS-69379	80.91246	64752714
10	Hapmap41275-BTA-47175	81.05315	64905140
10	ARS-BFGL-NGS-62905	81.18179	65044510
10	ARS-BFGL-BAC-14816	81.23935	65106884
10	ARS-BFGL-NGS-69577	81.26948	65139528
10	ARS-BFGL-NGS-105361	81.33691	65212580
10	BTA-112974-no-rs	81.36915	65247522
10	ARS-BFGL-NGS-53176	81.51687	65407567
10	BTA-73365-no-rs	81.5729	65468277
10	ARS-BFGL-NGS-108454	81.81678	65877655
10	Hapmap56930-rs29024128	81.83035	65897687
10	ARS-BFGL-NGS-42990	81.87985	65970755
10	ARS-BFGL-BAC-621	81.91518	66022910
10	Hapmap54949-rs29009945	81.96068	66090075
10	ARS-BFGL-NGS-66047	82.01798	66174661
10	ARS-BFGL-NGS-11407	82.05565	66230263
10	Hapmap33651-BTA-100665	82.14494	66362078
10	ARS-BFGL-BAC-14827	82.15	66397795
10	Hapmap60320-rs29010337	82.16682	66560673
10	BTA-100680-no-rs	82.17393	66591621
10	BTA-100678-no-rs	82.18484	66639142
10	BTA-100674-no-rs	82.18947	66659307
10	Hapmap31150-BTA-152385	82.19602	66687859
10	ARS-BFGL-BAC-15436	82.20707	66735975

10	ARS-BFGL-NGS-103146	82.21419	66766949	
10	ARS-BFGL-NGS-115726	82.23372	66852021	
10	ARS-BFGL-NGS-119477	82.24128	66884934	
10	BTA-100670-no-rs	82.24603	66905609	
10	Hapmap60649-rs29021678	82.26842	67003183	
10	Hapmap55116-rs29020033	82.27425	67028558	
10	BTA-100668-no-rs	82.29	67118053	
10	ARS-BFGL-BAC-15437	82.39402	67290043	
10	Hapmap31149-BTA-152372	82.51701	67391727	
10	ARS-BFGL-NGS-64369	82.54463	67414570	
10	ARS-BFGL-NGS-247	82.69504	67538919	
10	ARS-BFGL-NGS-44563	82.75264	67586540	
10	BTA-74241-no-rs	82.80037	67626007	
10	ARS-BFGL-NGS-32233	82.82722	67648206	
10	ARS-BFGL-BAC-15431	82.88326	67694539	
10	ARS-BFGL-NGS-113835	83.01141	67800499	
10	ARS-BFGL-BAC-15433	83.1778	67938058	
10	ARS-BFGL-NGS-16198	83.28857	68029646	
10	BTA-98744-no-rs	83.36024	68089016	
10	ARS-BFGL-NGS-110711	83.41542	68162634	
10	BTA-98741-no-rs	83.44312	68199588	
10	BTB-02057888	83.46738	68231955	
10	ARS-BFGL-BAC-15453	83.51566	68296332	
10	BTB-01065229	83.53703	68324855	
10	ARS-BFGL-BAC-15450	83.55807	68352930	
10	Hapmap42386-BTA-98732	83.57607	68376935	
10	ARS-BFGL-NGS-112605	83.60367	68413741	
10	ARS-BFGL-NGS-117890	83.62475	68441863	
10	Hapmap26162-BTA-151732	83.64935	68474685	
10	ARS-BFGL-NGS-104766	83.66776	68499241	
10	ARS-BFGL-NGS-97889	83.68753	68525616	
10	BTA-98729-no-rs	83.7214	68570791	
10	Hapmap40849-BTA-98725	83.74638	68604117	
10	Hapmap26720-BTA-151724	83.77538	68642807	
10	BTB-01064770	83.7942	68667898	
10	BTB-00741048	83.81342	68693555	
10	Hapmap35120-BES8_Contig406_894		83.83507	68722425
10	BTB-01064648	83.85888	68754185	
10	ARS-BFGL-NGS-21750	83.8855	68789694	
10	ARS-BFGL-NGS-57077	83.90234	68812168	
10	Hapmap50263-BTA-122214	83.92058	68836485	
10	ARS-BFGL-NGS-18531	83.96509	68895863	
10	ARS-BFGL-NGS-79790	83.98067	68916657	
10	Hapmap39090-BTA-62181	84.03862	68993955	
10	ARS-BFGL-NGS-100631	84.08661	69057957	
10	ARS-BFGL-NGS-12520	84.12382	69107598	
10	BTB-01420453	84.25863	69287432	
10	Hapmap52248-rs29010868	84.27636	69311079	
10	BTA-26321-no-rs	84.33881	69394382	
10	ARS-BFGL-NGS-68909	84.38174	69451664	
10	ARS-BFGL-NGS-105644	84.39919	69474936	
10	Hapmap48701-BTA-26317	84.42013	69502865	
10	ARS-BFGL-NGS-105887	84.46106	69557467	
10	Hapmap52599-rs29025208	84.50283	69613188	
10	BTB-00433829	84.53662	69658256	
10	Hapmap29285-BTA-162580	84.58417	69721690	
10	BTA-74277-no-rs	84.61234	69759274	
10	ARS-BFGL-NGS-55116	84.65147	69811463	
10	BTB-00433492	84.66746	69832790	

10	BTB-00433469	84.69006	69862924	
10	BTB-00433433	84.76738	69966083	
10	BTB-00433418	84.78603	69990962	
10	BTB-00433395	84.81053	70023640	
10	BTA-74271-no-rs	84.83664	70058470	
10	Hapmap41348-BTA-74269	84.85249	70079613	
10	ARS-BFGL-NGS-85692	84.87458	70109077	
10	Hapmap35357-SCAFFOLD220094_14112	84.88997		70129609
10	BTB-00433165	84.91925	70168665	
10	BTB-01866513	84.96632	70231445	
10	BTB-01866481	84.98685	70258844	
10	Hapmap60042-rs29009594	85.01488	70296220	
10	Hapmap59093-rs29024594	85.03111	70317873	
10	Hapmap38346-BTA-74335	85.0597	70356017	
10	ARS-BFGL-NGS-115581	85.06467	70476892	
10	ARS-BFGL-NGS-110504	85.06778	70556929	
10	ARS-BFGL-NGS-114113	85.06905	70589931	
10	Hapmap43670-BTA-74318	85.47566	70663937	
10	Hapmap47719-BTA-74313	85.82928	70736766	
10	Hapmap44482-BTA-74309	86.02515	70813663	
10	ARS-BFGL-NGS-81470	86.64843	71058333	
10	BTB-00434096	86.70924	71082204	
10	ARS-BFGL-NGS-94765	86.7686	71105511	
10	BTB-00434073	86.85014	71137516	
10	ARS-BFGL-NGS-6169	86.94849	71176125	
10	BTB-01449482	87.07712	71226626	
10	ARS-BFGL-NGS-116012	87.17983	71266946	
10	BTB-01449316	87.31009	71318080	
10	ARS-BFGL-BAC-15464	87.41545	71359437	
10	Hapmap43730-BTA-94217	87.48116	71385230	
10	BTB-01797755	87.84512	71528114	
10	BTB-01791763	87.91826	71556827	
10	BTA-85657-no-rs	88.00583	71591199	
10	ARS-BFGL-NGS-84353	88.21282	71672455	
10	ARS-BFGL-NGS-52145	88.26872	71694404	
10	BTB-01246946	88.43446	71760152	
10	BTB-01246955	88.49972	71787600	
10	ARS-BFGL-NGS-23163	88.61303	71835260	
10	ARS-BFGL-NGS-101787	88.78577	71907917	
10	Hapmap50247-BTA-117369	88.84543	71933019	
10	Hapmap51558-BTA-117380	88.96941	71985171	
10	BTB-01693207	89.14865	72060561	
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10	BTA-75252-no-rs	89.51434	72228543	
10	BTB-00435791	89.6949	72280968	
10	BTB-01653140	89.81325	72315329	
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10	BTA-109792-no-rs	90.99532	72658520	
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10	BTB-01203270	91.29536	72769319	
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10	Hapmap26103-BTA-125742	93.44071	73798107
10	ARS-BFGL-NGS-48568	93.49754	73855126
10	ARS-BFGL-NGS-68102	93.5625	73920310
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10	UA-IFASA-8771	93.76849	74127007
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10	ARS-BFGL-NGS-72852	93.88797	74246905
10	ARS-BFGL-BAC-7181	93.91461	74273641
10	ARS-BFGL-NGS-103001	93.97	74608049
10	Hapmap60941-rs29011199	93.97	74701672
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10	Hapmap49499-BTA-122540	93.97	74849835
10	ARS-BFGL-NGS-112074	93.97	74876068
10	ARS-BFGL-NGS-16475	93.97	75105774
10	Hapmap23438-BTA-152737	93.97	75226789
10	Hapmap38457-BTA-101571	93.97957	75403132
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10	BTA-101581-no-rs	93.98618	75502355
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10	UA-IFASA-4440	94.00219	75743110
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10	Hapmap43035-BTA-75257	94.01171	75886229
10	Hapmap51491-BTA-75258	94.01804	75981214
10	Hapmap43351-BTA-75262	94.02221	76014249
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10	ARS-BFGL-NGS-93518	94.50036	76779458
10	Hapmap44484-BTA-75324	94.59299	76931362
10	Hapmap27859-BTA-125757	94.61179	76984307
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10	ARS-BFGL-NGS-36898	94.69052	77206128
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10	Hapmap24868-BTA-156007	96.95979	78709942
10	ARS-BFGL-NGS-115606	97.00069	78743173
10	Hapmap53454-rs29027326	97.16782	78878993
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10	Hapmap38526-BTA-76305	97.79188	79569443
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10	BTA-76288-no-rs	98.25773	79854150
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10	ARS-BFGL-NGS-24724	99.94215	81091156
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10	ARS-BFGL-BAC-11025	103.6498	84516867
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10	ARS-BFGL-NGS-119786	103.8146	84767850
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10	ARS-BFGL-NGS-117016	103.8787	84865323
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10	BTB-00440958	103.9667	84999308
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10	BTB-00441121	104.0904	85187766
10	BTB-00852808	104.116	85226702
10	ARS-BFGL-NGS-103927	104.1654	85302011
10	ARS-BFGL-NGS-55327	104.1883	85336874
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10	BTB-02091381	104.5756	85407544
10	ARS-BFGL-NGS-13900	104.639	85428422
10	ARS-BFGL-NGS-13501	104.7966	85480303
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10	Hapmap41972-BTA-79298	105.0001	85547284
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10	BTB-00441709	105.7476	85889362
10	BTB-00441717	105.7623	85910292
10	BTB-00441734	105.7863	85944517
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10	ARS-BFGL-NGS-33556	105.9758	86214669
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10	ARS-BFGL-NGS-88671	106.2286	86566429
10	BTB-00438757	106.2486	86594109
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10	ARS-BFGL-NGS-8438	107.1939	87916083
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10	BTB-00439466	107.2084	87992789
10	BTB-01087838	107.2165	88035301
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10	Hapmap42108-BTA-121976	107.2919	88434861
10	ARS-BFGL-NGS-25993	107.3163	88563925
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10	ARS-BFGL-NGS-21116	107.4384	88813187
10	BTA-106506-no-rs	107.4953	88884981
10	ARS-BFGL-NGS-18814	107.5434	88945487
10	ARS-BFGL-NGS-80270	107.56	88966467
10	ARS-BFGL-NGS-38842	107.6003	89017273
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10	Hapmap43361-BTA-80384	109.8379	91549718
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10	ARS-BFGL-NGS-2949	110.0289	91720092
10	BTB-00444654	110.0642	91751584
10	ARS-BFGL-NGS-26052	110.0992	91782840
10	ARS-BFGL-NGS-5728	110.1298	91810103
10	BTB-00444587	110.1711	91846997
10	ARS-BFGL-NGS-98590	110.2168	91887770
10	ARS-BFGL-NGS-111169	110.2931	91955798
10	BTA-80379-no-rs	110.3227	91982227
10	Hapmap48477-BTA-80377	110.3551	92011190
10	Hapmap54410-rs29021343	110.3809	92034186
10	ARS-BFGL-BAC-6525	110.4853	92127288
10	ARS-BFGL-NGS-103736	110.513	92152083
10	BTB-00445081	110.6123	92240642
10	Hapmap31521-BTA-162790	110.74	92386182
10	ARS-BFGL-NGS-79766	110.74	92542068
10	BTB-01102080	110.7597	92597410
10	Hapmap38397-BTA-26095	110.8709	92641202
10	Hapmap55573-rs29025325	111.0126	92695820
10	ARS-BFGL-NGS-95966	111.3276	92808200
10	BTB-01101887	111.436	92846879

10	Hapmap47899-BTA-26090	111.5172	92898514
10	ARS-BFGL-NGS-15632	111.5327	92952608
10	ARS-BFGL-NGS-78530	111.552	93019985
10	BTB-01609932	111.5858	93138303
10	BTB-00445100	111.625	93275196
10	ARS-BFGL-NGS-61859	111.6509	93365815
10	ARS-BFGL-NGS-29782	111.6716	93438381
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10	BTB-00445247	111.6898	93501776
10	UA-IFASA-6057	111.6973	93528030
10	BTB-00445300	111.7032	93548683
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10	Hapmap60746-rs29010022	111.7382	93670999
10	Hapmap41363-BTA-81349	111.7486	93707381
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10	ARS-BFGL-NGS-114950	111.7634	93759181
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10	BTA-19184-no-rs	111.7816	93823011
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10	ARS-BFGL-NGS-20486	111.817	93946634
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10	ARS-BFGL-NGS-36043	111.8561	94083525
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10	ARS-BFGL-NGS-89569	111.9534	94165355
10	Hapmap42687-BTA-81367	111.995	94195746
10	BTB-00445989	112.0458	94232872
10	Hapmap38437-BTA-81372	112.0802	94258071
10	BTB-00446095	112.1507	94309632
10	Hapmap54178-rs29021913	112.191	94339064
10	BTB-00446145	112.2706	94397322
10	BTB-01402723	112.3876	94482815
10	ARS-BFGL-NGS-7940	112.432	94515340
10	Hapmap43494-BTA-122491	112.5073	94570405
10	ARS-BFGL-NGS-31822	112.5472	94599574
10	BTB-01663299	112.5825	94625404
10	BTB-01663270	112.6121	94647038
10	BTB-01526459	112.8022	94786066
10	BTB-01526503	112.8318	94807697
10	BTB-01526525	112.8925	94852075
10	BTB-01010697	113.0272	94950605
10	BTA-65005-no-rs	113.1494	95039953
10	Hapmap50283-BTA-22227	113.2173	95089646
10	BTA-15736-no-rs	113.2631	95123087
10	ARS-BFGL-NGS-21459	113.3312	95172902
10	Hapmap59536-rs29025348	113.3661	95198461
10	ARS-BFGL-NGS-5768	113.412	95232032
10	BTB-01311442	113.4703	95274618
10	BTA-47044-no-rs	113.6994	95381173
10	ARS-BFGL-BAC-15497	113.7942	95419988
10	ARS-BFGL-NGS-67195	113.8649	95448891
10	Hapmap50620-BTA-21279	113.9673	95490805
10	BTA-21281-no-rs	114.0487	95524114
10	BTB-01311849	114.2549	95608495
10	Hapmap39357-BTA-81356	114.307	95629821
10	BTB-01970848	114.3773	95658568
10	Hapmap38529-BTA-81355	114.4763	95699086

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10	ARS-BFGL-NGS-87019	115.182	96219628		
10	Hapmap27052-BTA-98154	115.255	96438460		
10	Hapmap46881-BTA-82468	115.2977	96641408		
10	Hapmap60286-rs29021072	115.3091	96695555		
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10	BTA-22070-no-rs	115.349	96885456		
10	BTA-82461-no-rs	115.3559	96918472		
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10	ARS-BFGL-NGS-85148	115.3822	97043822		
10	Hapmap33186-BTA-125967	115.3934	97096854		
10	ARS-BFGL-NGS-116407	115.6374	97372769		
10	Hapmap11534-BTA-82438	115.6743	97410796		
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10	ARS-BFGL-NGS-81507	115.9027	97645897		
10	BTA-82436-no-rs	115.9629	97707791		
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10	Hapmap41654-BTA-82427	116.0416	97788857		
10	BTA-82413-no-rs	116.1653	97916188		
10	Hapmap58273-rs29018360	116.2015	97953465		
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10	Hapmap33908-BES4_Contig352_1404		116.3555	98111988	
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10	ARS-BFGL-NGS-26456	116.4636	98223275		
10	ARS-USMARC-Parent-DQ984825-rs29012457		116.4706	98230479	
10	Hapmap60701-rs29010356	116.4848	98245112		
10	ARS-BFGL-NGS-90588	116.5292	98290813		
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10	BTB-00446186	116.7217	98460121		
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10	BTA-111053-no-rs	116.8769	98541920		
10	Hapmap58172-rs29027092	116.8894	98548526		
10	BTB-00446995	116.9653	98588493		
10	Hapmap31719-BTA-125984	117.0398	98627766		
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10	ARS-BFGL-NGS-23086	117.3997	98817467		
10	BTB-01049617	117.4426	98840028		
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10	BTA-104505-no-rs	119.6868	100674363	
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10	ARS-BFGL-NGS-74142	119.7863	100775863	
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10	BTA-21035-no-rs	119.8846	100871194	
10	BTB-01308993	119.9324	100917539	
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10	ARS-BFGL-NGS-17132	120.09	101354418	
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10	ARS-BFGL-NGS-40686	120.0967	102050559	
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10	Hapmap59733-rs29016246	120.4849	102238194	
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10	BTA-99881-no-rs	120.6295	102308122	
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10	Hapmap42238-BTA-51186	120.7723	102446402
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10	ARS-BFGL-NGS-1692	120.8662	102544951
10	ARS-BFGL-NGS-70413	120.894	102574147
10	ARS-BFGL-NGS-5643	120.9568	102640045
10	ARS-BFGL-NGS-110580	120.9951	102681999
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10	ARS-BFGL-NGS-4491	121.1232	102794657
10	ARS-BFGL-NGS-119194	121.1662	102819188
10	ARS-BFGL-NGS-116888	121.2185	102849006
10	ARS-BFGL-NGS-95108	121.2862	102887596
10	BTA-117549-no-rs	121.3216	102907770
10	Hapmap42829-BTA-117556	121.3706	102935702
10	Hapmap49784-BTA-87663	121.4345	102972150
10	ARS-BFGL-BAC-15488	121.568	103048273
10	ARS-BFGL-NGS-102562	121.6459	103092677
10	ARS-BFGL-NGS-103960	121.6989	103122889
10	BTA-83473-no-rs	121.7449	103149093
10	ARS-BFGL-NGS-116631	121.7956	103178023
10	ARS-BFGL-NGS-30527	121.8206	103210766
10	Hapmap47423-BTA-83469	121.8309	103234411
10	Hapmap59070-rs29016931	121.8507	103280130
10	ARS-BFGL-NGS-39375	121.8683	103320719
10	ARS-BFGL-NGS-118945	121.8952	103382526
10	ARS-BFGL-NGS-103474	121.9259	103453412
10	ARS-BFGL-NGS-27366	121.9331	103470001
10	Hapmap49930-BTA-24651	121.9894	103599828
10	ARS-BFGL-NGS-98753	122.0052	103636188
10	ARS-BFGL-NGS-109724	122.0202	103670792
10	ARS-BFGL-NGS-20413	122.0328	103699875
10	ARS-BFGL-NGS-4171	122.0465	103731454
10	ARS-BFGL-NGS-28197	122.0682	103781481
10	Hapmap13194-BTA-96646	122.1052	103866671
10	BTA-05225-no-rs	122.1231	103908013
10	BTA-96648-no-rs	122.1496	103969064
10	ARS-BFGL-NGS-36623	122.2106	104109661
10	Hapmap51305-BTA-74560	122.2564	104215086
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11	ARS-BFGL-NGS-20788	0	665543
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11	ARS-BFGL-NGS-38779	0.2215889	1214856		
11	ARS-BFGL-NGS-11211	0.3015301	1253725		
11	ARS-BFGL-NGS-81709	0.3639319	1284066		
11	BTB-00449812	0.4189854	1310834		
11	ARS-BFGL-NGS-84048	0.4825903	1341760		
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11	ARS-BFGL-NGS-108649	0.6851059	1440227		
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11	ARS-BFGL-NGS-101087	0.859918	1525224		
11	ARS-BFGL-NGS-83503	0.9234079	1556094		
11	ARS-BFGL-NGS-116413	1.005484	1596001		
11	BTB-00448847	1.055233	1620190		
11	ARS-BFGL-NGS-98455	1.149865	1666202		
11	ARS-USMARC-Parent-DQ837646-rs29012894	1.226806	1703612	1.226806	1703612
11	Hapmap57799-rs29012894	1.226806	1703612		
11	ARS-BFGL-NGS-103834	1.288496	1733607		
11	Hapmap22963-BTA-91941	1.438155	1806374		
11	ARS-BFGL-NGS-54066	1.496166	1834580		
11	BTB-00449987	1.559306	1865280		
11	ARS-BFGL-NGS-68030	1.63439	1901787		
11	ARS-BFGL-NGS-24329	1.672037	1920092		
11	Hapmap54920-rs29026446	1.760438	1963074		
11	ARS-BFGL-NGS-18143	1.832763	1998240		
11	ARS-BFGL-NGS-91320	1.891956	2027021		
11	ARS-BFGL-NGS-85500	1.98612	2072805		
11	ARS-BFGL-NGS-114980	2.060212	2108830		
11	BTB-00448829	2.124944	2140304		
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11	Hapmap36649-SCAFFOLD175947_14270	2.429802	2288532	2.429802	2288532
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11	Hapmap48504-BTA-87558	2.600122	2371345		
11	ARS-BFGL-NGS-79217	2.77977	2458693		
11	ARS-BFGL-NGS-23705	2.957696	2545204		
11	BTB-00452943	3.0379	2584201		
11	ARS-BFGL-NGS-113057	3.078207	2603799		
11	ARS-BFGL-NGS-33034	3.147579	2637529		
11	ARS-BFGL-NGS-12715	3.189857	2658085		
11	ARS-BFGL-NGS-101296	3.258659	2691538		
11	ARS-BFGL-NGS-95775	3.372307	2746796		
11	Hapmap36552-SCAFFOLD185127_16827	3.414368	2767247	3.414368	2767247
11	ARS-BFGL-NGS-67011	3.47959	2798959		
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11	Hapmap25380-BTA-95190	3.588058	2851698		
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11	BTB-00452217	3.859176	2983521		
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11	ARS-BFGL-NGS-31804	3.983932	3044180		
11	ARS-BFGL-NGS-113875	4.113109	3106988		
11	BTB-00451982	4.18101	3140003		

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11	BTB-01823731	4.335362	3215052
11	BTB-00451941	4.380447	3236973
11	Hapmap38641-BTA-93090	4.517585	3303652
11	ARS-BFGL-NGS-89583	4.603079	3345221
11	Hapmap43972-BTA-93042	4.65691	3371395
11	BTA-93031-no-rs	4.736829	3410253
11	Hapmap60518-rs29011691	4.821953	3451642
11	ARS-BFGL-NGS-19329	4.875353	3477606
11	ARS-BFGL-NGS-11111	5.084555	3579324
11	Hapmap50529-BTA-99139	5.16426	3618078
11	ARS-BFGL-NGS-53430	5.240121	3654963
11	ARS-BFGL-NGS-22749	5.355863	3713607
11	BTB-00453425	5.394654	3736020
11	ARS-BFGL-NGS-69066	5.445468	3765380
11	ARS-BFGL-BAC-14277	5.5112	3803359
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11	ARS-BFGL-NGS-18450	5.802263	3971531
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11	ARS-BFGL-NGS-89151	6.066946	4124461
11	BTB-01330547	6.107812	4148073
11	ARS-BFGL-NGS-15071	6.498219	4373645
11	BTB-01723556	6.576773	4419032
11	Hapmap40381-BTA-09207	6.657955	4465938
11	BTB-00450113	6.761061	4525511
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11	ARS-BFGL-NGS-13472	7.079957	4696808
11	ARS-BFGL-BAC-11090	7.27	4730528
11	UA-IFASA-4273	7.27	4760867
11	Hapmap48515-BTA-89384	7.27	4799594
11	Hapmap23963-BTA-89387	7.27	4824893
11	BTB-01118293	7.27	4848397
11	ARS-BFGL-NGS-69903	7.28856	4875412
11	BTB-01118360	7.409098	4918860
11	ARS-BFGL-NGS-12127	7.485955	4946563
11	BTB-01118497	7.544293	4967591
11	ARS-BFGL-NGS-69404	7.662223	5010099
11	BTB-01118558	7.741596	5038709
11	Hapmap53281-rs29026129	7.803158	5060899
11	ARS-BFGL-NGS-77332	7.898558	5095286
11	BTB-01118640	7.992465	5129135
11	ARS-BFGL-NGS-114076	8.056372	5152170
11	Hapmap53318-rs29018775	8.215312	5209460
11	ARS-BFGL-NGS-68850	8.335043	5252617
11	BTB-01118763	8.414382	5281215
11	BTB-01118794	8.439876	5290404
11	BTA-101050-no-rs	8.504358	5313647
11	ARS-BFGL-NGS-43582	8.58	5349030
11	ARS-BFGL-NGS-25743	8.58	5389716
11	Hapmap38184-BTA-100156	8.58	5462015
11	ARS-BFGL-NGS-32877	8.58	5486138
11	ARS-BFGL-NGS-114595	8.645883	5539221
11	Hapmap30503-BTA-126122	8.717008	5564863
11	ARS-BFGL-NGS-93607	8.79722	5593781
11	ARS-BFGL-NGS-23750	8.896827	5629691
11	ARS-BFGL-NGS-113441	9.109404	5706329
11	Hapmap44283-BTA-77701	9.282209	5768629

11	Hapmap48902-BTA-81093	9.385891	5806008	
11	BTB-00343922	9.513354	5851961	
11	ARS-BFGL-NGS-64657	9.570632	5872611	
11	ARS-BFGL-NGS-30471	9.659385	5904608	
11	ARS-BFGL-BAC-14947	9.730383	5930204	
11	ARS-BFGL-NGS-34139	9.77	5964756	
11	Hapmap47418-BTA-81103	9.77	5999470	
11	ARS-BFGL-NGS-91251	9.77	6076003	
11	Hapmap39438-BTA-81105	9.77	6146536	
11	ARS-BFGL-NGS-116293	9.77	6167550	
11	BTB-01763350	9.77	6222588	
11	ARS-BFGL-NGS-5681	9.794269	6243988	
11	ARS-BFGL-NGS-42574	9.971541	6322937	
11	Hapmap36226-SCAFFOLD212128_13243		10.0188	6343983
11	BTB-01916547	10.09352	6377262	
11	BTB-00454142	10.16049	6407087	
11	BTB-01802899	10.27623	6458630	
11	BTA-112331-no-rs	10.38733	6508112	
11	ARS-BFGL-NGS-118420	10.4679	6543992	
11	ARS-BFGL-NGS-80961	10.59926	6602495	
11	BTA-112348-no-rs	10.64222	6621626	
11	UA-IFASA-6574	10.70087	6647746	
11	ARS-BFGL-NGS-6184	10.74691	6668249	
11	Hapmap60421-rs29010480	10.82197	6701679	
11	ARS-BFGL-NGS-41117	10.87361	6724678	
11	ARS-BFGL-NGS-110191	10.94955	6758495	
11	BTB-00456788	10.99184	6777332	
11	BTB-01626953	11.03078	6794673	
11	ARS-BFGL-NGS-119328	11.15212	6848710	
11	Hapmap52826-rs29011405	11.30046	6914776	
11	ARS-BFGL-NGS-47869	11.33445	6929912	
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11	ARS-BFGL-NGS-100141	11.5989	7047686	
11	Hapmap32992-BTA-126190	11.75735	7118255	
11	BTB-00457013	11.91906	7190271	
11	ARS-BFGL-NGS-14899	11.97288	7214239	
11	ARS-BFGL-NGS-96933	12.04345	7245667	
11	BTB-00457093	12.09649	7275848	
11	ARS-BFGL-NGS-57932	12.13235	7296877	
11	BTA-101065-no-rs	12.17643	7322722	
11	ARS-BFGL-NGS-21561	12.28022	7383583	
11	ARS-BFGL-NGS-21703	12.32048	7407191	
11	Hapmap38994-BTA-101073	12.36766	7434860	
11	Hapmap50540-BTA-101086	12.41167	7460663	
11	ARS-BFGL-NGS-28646	12.44971	7482969	
11	ARS-BFGL-NGS-11972	12.49555	7509854	
11	ARS-BFGL-NGS-37576	12.54792	7540560	
11	ARS-BFGL-NGS-16818	12.58055	7559695	
11	ARS-BFGL-NGS-35216	12.62498	7585747	
11	Hapmap46908-BTA-102184	12.69251	7625345	
11	BTB-00454930	12.82648	7697169	
11	ARS-BFGL-NGS-64152	13.00815	7785289	
11	BTA-103207-no-rs	13.06294	7811865	
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11	BTA-104234-no-rs	13.23954	7897531	
11	BTB-02002625	13.31252	7932928	
11	Hapmap54394-rs29020725	13.41236	7981357	
11	BTB-00455305	13.46881	8008738	
11	BTB-00455326	13.53796	8042280	

11	ARS-BFGL-BAC-11154	13.75956	8149768
11	ARS-BFGL-NGS-110311	13.83389	8185823
11	BTA-105281-no-rs	13.90582	8220712
11	Hapmap55406-rs29018155	14.0373	8284491
11	ARS-BFGL-NGS-25292	14.26579	8395321
11	ARS-BFGL-NGS-81019	14.31483	8419110
11	BTB-00455867	14.37736	8449441
11	Hapmap52841-rs29026711	14.44606	8482764
11	Hapmap44582-BTA-107322	14.57597	8545778
11	BTB-00455896	14.62057	8567411
11	ARS-BFGL-NGS-39999	14.67055	8591653
11	ARS-BFGL-NGS-83556	14.71916	8615231
11	BTA-108380-no-rs	14.92099	8713134
11	ARS-BFGL-NGS-28887	15.04929	8763389
11	BTB-00456252	15.25727	8836373
11	Hapmap50562-BTA-109325	15.45019	8904074
11	BTB-01693261	15.56352	8943841
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11	ARS-BFGL-NGS-97887	15.76922	9016028
11	ARS-BFGL-NGS-102975	15.84353	9042103
11	ARS-BFGL-NGS-31282	15.96959	9086342
11	ARS-BFGL-NGS-89119	15.98464	9110713
11	ARS-BFGL-NGS-62299	16.01053	9153560
11	Hapmap40102-BTA-110410	16.03696	9197291
11	ARS-BFGL-NGS-42152	16.05523	9227526
11	ARS-BFGL-NGS-57976	16.09186	9288132
11	ARS-BFGL-NGS-83673	16.11706	9329831
11	ARS-BFGL-NGS-31844	16.13723	9363209
11	BTA-92021-no-rs	16.1504	9385008
11	BTB-01830724	16.17164	9420152
11	BTB-00456673	16.18938	9449507
11	BTB-00456759	16.20367	9473158
11	ARS-BFGL-NGS-64444	16.2502	9550147
11	Hapmap50587-BTA-118693	16.29555	9625189
11	BTB-00457391	16.31961	9665006
11	BTA-119651-no-rs	16.33128	9684328
11	BTB-00457664	16.35481	9723257
11	BTB-01569510	16.3744	9755667
11	BTB-01569466	16.3953	9790265
11	ARS-BFGL-NGS-93955	16.43258	9851948
11	ARS-BFGL-NGS-103075	16.45214	9884327
11	Hapmap49397-BTA-98960	16.46493	9905475
11	ARS-BFGL-NGS-10500	16.48834	9944217
11	Hapmap40656-BTA-115565	16.54814	10043181
11	ARS-BFGL-NGS-72000	16.57491	10087484
11	ARS-BFGL-NGS-3234	16.5922	10116081
11	ARS-BFGL-NGS-23211	16.64026	10195609
11	BTB-00457184	16.68621	10271653
11	ARS-BFGL-NGS-106145	16.71492	10319154
11	ARS-BFGL-NGS-109939	16.74359	10364456
11	Hapmap43166-BTA-118641	16.77391	10409847
11	ARS-BFGL-NGS-25723	16.79237	10437469
11	Hapmap59419-ss46527040	16.82305	10483399
11	ARS-BFGL-NGS-90755	16.842	10511762
11	ARS-BFGL-NGS-119844	16.87278	10557842
11	ARS-BFGL-NGS-40174	16.87715	10564380
11	UA-IFASA-2313	16.90378	10604234
11	Hapmap40688-BTA-21593	16.92135	10630544
11	BTA-16599-no-rs	16.9421	10661606

11	Hapmap43191-BTA-16575	17.08413	10693902
11	ARS-BFGL-NGS-56697	17.1355	10720062
11	BTB-00458773	17.20045	10753131
11	Hapmap41190-BTA-16578	17.24621	10776433
11	Hapmap58528-rs29018292	17.45509	10882793
11	BTA-16572-no-rs	17.50097	10906159
11	ARS-BFGL-BAC-13552	17.52	10945714
11	BTA-16568-no-rs	17.52	10985610
11	Hapmap46203-BTA-16567	17.57525	11009110
11	UA-IFASA-5940	17.67256	11041621
11	BTA-11124-rs29016888	17.76898	11073836
11	BTB-00458289	17.89577	11116195
11	ARS-BFGL-NGS-20722	18.17203	11209209
11	ARS-BFGL-NGS-31961	18.29527	11254377
11	BTA-16558-no-rs	18.42708	11302689
11	ARS-BFGL-NGS-113864	18.6404	11380878
11	ARS-BFGL-NGS-22092	18.70588	11404878
11	ARS-BFGL-NGS-117717	18.93725	11489680
11	ARS-BFGL-NGS-118131	19.07466	11540044
11	BTA-16600-no-rs	19.27279	11612663
11	BTB-00459111	19.33186	11634312
11	BTB-00459119	19.40934	11662712
11	BTB-01917119	19.8819	11715681
11	BTB-02007301	19.95203	11754597
11	BTA-122291-no-rs	20.04158	11804294
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11	BTB-01644390	20.31345	11955169
11	ARS-BFGL-BAC-13568	20.38386	11994246
11	BTB-00649769	20.55445	12088913
11	BTA-85490-no-rs	20.70174	12170656
11	BTB-00461346	20.75817	12201969
11	ARS-BFGL-NGS-115446	20.87549	12267076
11	ARS-BFGL-NGS-40307	20.91257	12287657
11	ARS-BFGL-NGS-103158	21.04994	12363892
11	ARS-BFGL-NGS-100255	21.09751	12390287
11	ARS-BFGL-NGS-40411	21.14364	12415887
11	BTB-00461144	21.19573	12444799
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11	ARS-BFGL-NGS-107641	21.32027	12513910
11	Hapmap42165-BTA-28330	21.36582	12539187
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11	ARS-BFGL-NGS-21642	21.46938	12596662
11	BTA-85474-no-rs	21.59808	12668083
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11	ARS-BFGL-NGS-40347	21.76516	12760805
11	ARS-BFGL-NGS-26367	21.81824	12790261
11	ARS-BFGL-NGS-100878	21.94295	12856120
11	BTA-85470-no-rs	21.98859	12877885
11	BTB-00460506	22.07411	12947549
11	Hapmap48102-BTA-85468	22.08799	12970800
11	Hapmap52124-rs29020943	22.12763	13037167
11	BTB-00460427	22.13583	13050899
11	ARS-BFGL-BAC-14209	22.1859	13134752
11	ARS-BFGL-NGS-28395	22.20941	13174116
11	BTA-84551-no-rs	22.23353	13214516
11	BTB-00459766	22.25381	13248475
11	Hapmap47755-BTA-84550	22.27772	13288513
11	BTA-84543-no-rs	22.52231	13389841
11	ARS-BFGL-NGS-13679	22.57293	13429329

11	ARS-BFGL-NGS-34091	22.57603	13450833
11	ARS-BFGL-NGS-35411	22.5862	13521427
11	ARS-BFGL-NGS-4008	22.58983	13546635
11	ARS-BFGL-NGS-60010	22.59363	13572966
11	ARS-BFGL-NGS-34052	22.59716	13597473
11	ARS-BFGL-NGS-21754	22.60044	13620175
11	BTB-00461599	22.60931	13681749
11	BTA-85500-no-rs	22.61281	13706029
11	Hapmap41990-BTA-85501	22.61638	13730813
11	UA-IFASA-6712	22.61933	13751244
11	ARS-BFGL-NGS-15072	22.62309	13777315
11	ARS-BFGL-NGS-62906	22.62995	13824939
11	BTB-01515539	22.64678	13849051
11	Hapmap30370-BTA-99862	22.66174	13870240
11	ARS-BFGL-BAC-14220	22.69316	13914771
11	BTB-00563759	22.71555	13946496
11	ARS-BFGL-NGS-42999	22.74865	13993403
11	BTB-00563665	22.7798	14037552
11	Hapmap31534-BTA-26223	22.8483	14134626
11	Hapmap48692-BTA-24694	22.9	14241827
11	BTB-00461771	22.9	14283365
11	ARS-BFGL-NGS-66840	22.9	14334520
11	Hapmap39693-BTA-85506	22.9	14523442
11	BTA-85510-no-rs	22.9227	14808687
11	ARS-BFGL-NGS-1848	23.01145	14866870
11	ARS-BFGL-NGS-25419	23.1341	14947290
11	BTB-00483333	23.22673	15008020
11	BTB-00461989	23.25946	15029477
11	ARS-BFGL-NGS-74492	23.32218	15070600
11	BTB-00462019	23.39043	15115350
11	BTA-05998-rs29020145	23.45392	15156976
11	BTB-01529593	23.479	15173418
11	ARS-BFGL-NGS-71150	23.52218	15201728
11	BTB-01529507	23.57848	15238642
11	Hapmap38456-BTA-101186	23.61	15277886
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11	ARS-BFGL-NGS-116521	23.61	15427710
11	BTB-01972463	23.61	15462339
11	ARS-BFGL-NGS-15959	23.61946	15499838
11	BTB-00463045	23.66266	15524960
11	ARS-BFGL-NGS-27258	23.86846	15644634
11	BTB-00462448	24.161	15814741
11	ARS-BFGL-BAC-14856	24.23368	15857007
11	ARS-BFGL-NGS-17904	24.26848	15877241
11	BTB-00462303	24.30436	15898107
11	ARS-BFGL-NGS-68680	24.33764	15919622
11	ARS-BFGL-NGS-91675	24.36744	15945389
11	ARS-BFGL-NGS-51088	24.43006	15999515
11	UA-IFASA-2426	24.45428	16020458
11	BTB-00461834	24.60976	16154870
11	Hapmap29803-BTA-126260	24.65444	16193493
11	BTB-00461875	24.69722	16230481
11	BTB-00461926	24.73423	16262479
11	ARS-BFGL-NGS-21769	24.76645	16290329
11	BTB-00463178	24.82973	16345034
11	BTB-00463351	24.86337	16374116
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11	BTB-01347992	25.30912	16759475	
11	BTA-26718-no-rs	25.37936	16820196	
11	BTA-119408-no-rs	25.53505	16954791	
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11	BTB-01391227	25.59	17058497	
11	BTB-01391272	25.59	17083043	
11	BTB-01661903	25.59	17143826	
11	BTB-01661919	25.59	17186241	
11	Hapmap26417-BTA-147042	25.59	17238549	
11	Hapmap42936-BTA-41076	25.59654	17254274	
11	BTB-01233020	25.65872	17381176	
11	BTB-01232906	25.69311	17445658	
11	BTB-01766447	25.88123	17484533	
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11	ARS-BFGL-NGS-19198	26.86078	17686944	
11	Hapmap51806-BTA-115203	27.17874	17732614	
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11	Hapmap30865-BTA-157248	27.35146	17882307	
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11	BTB-01679746	27.49969	18026984	
11	BTB-01940421	27.52417	18050872	
11	BTB-01913936	27.58211	18107426	
11	BTA-28869-no-rs	27.6146	18139140	
11	BTB-01996428	27.6593	18182765	
11	BTB-01744126	27.69909	18221603	
11	Hapmap55223-rs29012734	27.74034	18261860	
11	BTB-01784507	27.78423	18304697	
11	BTA-94053-no-rs	27.82118	18340757	
11	BTB-01449090	27.84518	18364186	
11	BTB-01448825	27.87187	18390236	
11	ARS-BFGL-NGS-84166	27.92927	18446256	
11	Hapmap48128-BTA-94056	27.96469	18480826	
11	Hapmap36648-SCAFFOLD255197_18545	28.03034	18544905	
11	BTA-94054-no-rs	28.05345	18567457	
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11	BTA-118292-no-rs	28.14616	18657945	
11	BTB-01396464	28.18909	18699846	
11	Hapmap34566-BES11_Contig184_366	28.2255	18735382	
11	BTA-88187-no-rs	28.25119	18760452	
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11	ARS-BFGL-NGS-66637	28.36076	18867395	
11	BTB-01396675	28.39135	18897246	
11	Hapmap25656-BTA-88183	28.4289	18933896	
11	Hapmap42709-BTA-86558	28.46561	18969733	
11	Hapmap39596-BTA-86565	28.60093	19101798	
11	ARS-BFGL-NGS-3421	28.62482	19125116	
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11	BTB-00753387	28.71858	19216632	
11	ARS-BFGL-NGS-54076	28.79053	19248965	
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11	Hapmap32683-BTA-88615	29.84409	19587769
11	ARS-BFGL-BAC-16175	30.20533	19644044
11	BTB-00467573	31.39313	19781729
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11	Hapmap44418-BTA-88623	32.57661	19918911
11	ARS-BFGL-NGS-102490	33.00664	19971032
11	ARS-BFGL-NGS-20053	33.5033	20032403
11	BTB-00467628	33.73932	20061567
11	BTB-01695728	34.17554	20119555
11	ARS-BFGL-NGS-25248	34.39045	20202555
11	Hapmap26194-BTA-158111	34.54216	20271885
11	ARS-BFGL-NGS-15494	34.65904	20326518
11	ARS-BFGL-NGS-104435	34.71025	20350454
11	BTB-01247916	34.79735	20392877
11	ARS-BFGL-NGS-106153	34.94776	20498182
11	Hapmap38198-BTA-117515	35.12462	20622003
11	ARS-BFGL-NGS-102824	35.17091	20654410
11	BTB-00464926	35.2466	20707406
11	Hapmap42710-BTA-86602	35.27858	20729795
11	Hapmap51072-BTA-86601	35.31514	20755386
11	ARS-BFGL-NGS-113920	35.35503	20783316
11	ARS-BFGL-NGS-113404	35.404	20817600
11	BTA-86600-no-rs	35.43444	20838916
11	ARS-BFGL-NGS-90348	35.51797	20897395
11	BTB-00464777	35.60823	20960589
11	Hapmap43962-BTA-86597	35.78068	21081322
11	Hapmap50806-BTA-86596	35.84098	21123539
11	Hapmap41665-BTA-86590	35.88754	21156138
11	BTB-00464573	35.92396	21181637
11	BTA-120835-no-rs	35.96185	21208161
11	BTB-00464454	36.01066	21242337
11	ARS-BFGL-BAC-11039	36.05894	21276136
11	BTB-00464392	36.11082	21312462
11	Hapmap44490-BTA-86580	36.19899	21374188
11	BTB-00464360	36.25293	21411953
11	BTB-00464268	36.28598	21435093
11	ARS-BFGL-NGS-2977	36.3237	21461502
11	ARS-BFGL-NGS-44338	36.37354	21496394
11	ARS-BFGL-NGS-15820	36.42983	21535801
11	BTB-00464022	36.46002	21556940
11	UA-IFASA-4213	36.49511	21581503
11	ARS-BFGL-NGS-26022	36.59606	21652185
11	ARS-BFGL-BAC-11047	36.6385	21681893
11	BTB-00465155	36.6707	21704414
11	Hapmap48107-BTA-87507	36.76358	21766263
11	ARS-BFGL-NGS-74974	36.80532	21794065
11	ARS-BFGL-NGS-117532	36.91246	21865413
11	Hapmap38359-BTA-87537	36.94614	21887840
11	BTA-87540-no-rs	36.99628	21921227
11	BTB-00465430	37.06657	21968037
11	Hapmap42711-BTA-87541	37.10658	21994682
11	ARS-BFGL-NGS-98592	37.20231	22058432
11	ARS-BFGL-NGS-100459	37.30763	22128569
11	BTA-87562-no-rs	37.38497	22180066
11	ARS-BFGL-BAC-11050	37.41688	22201316



11	BTB-01866238	37.46061	22230438	
11	BTA-105796-no-rs	37.56773	22301772	
11	Hapmap52352-rs29018193	37.67599	22373870	
11	ARS-BFGL-NGS-65895	37.70837	22395430	
11	BTA-97224-no-rs	37.76486	22436382	
11	ARS-BFGL-NGS-27959	37.80466	22465305	
11	Hapmap23765-BTA-151182	37.87798	22518581	
11	BTA-97221-no-rs	37.93335	22558808	
11	ARS-BFGL-NGS-43804	37.97424	22588525	
11	ARS-BFGL-NGS-110642	38.00863	22613511	
11	BTA-120837-no-rs	38.04298	22638474	
11	ARS-BFGL-NGS-116483	38.08147	22666445	
11	Hapmap49783-BTA-87584	38.1112	22688045	
11	ARS-BFGL-NGS-118895	38.15098	22716948	
11	BTB-00466225	38.19184	22746644	
11	Hapmap36745-SCAFFOLD105004_39631	38.2426		22783522
11	BTB-00466317	38.34521	22858088	
11	ARS-BFGL-NGS-62536	38.41985	22912326	
11	BTB-00466422	38.4529	22936341	
11	BTB-01903909	38.61139	23051506	
11	Hapmap44345-BTA-119580	38.65775	23085190	
11	BTA-119578-no-rs	38.70828	23121908	
11	ARS-BFGL-BAC-11672	38.74229	23146620	
11	BTB-00466557	38.78284	23176087	
11	BTB-00466621	38.81654	23200575	
11	BTB-01859163	38.86495	23235749	
11	ARS-BFGL-NGS-107853	38.96474	23308266	
11	BTB-00466773	39.00963	23340880	
11	BTB-01805609	39.09384	23402070	
11	ARS-BFGL-NGS-40621	39.15086	23443507	
11	BTA-93788-no-rs	39.28091	23538009	
11	Hapmap59290-rs29022016	39.36725	23599074	
11	BTA-103698-no-rs	39.40664	23626551	
11	Hapmap43993-BTA-103701	39.44675	23654532	
11	BTB-01556917	39.51291	23700685	
11	BTB-01444917	39.53977	23719418	
11	Hapmap51172-BTA-122698	39.65971	23803086	
11	BTB-01374666	39.75257	23867860	
11	ARS-BFGL-BAC-11706	39.82504	23918407	
11	ARS-BFGL-NGS-61345	39.92315	23986849	
11	ARS-BFGL-NGS-35892	39.96995	24019490	
11	BTB-01374905	40.01487	24050822	
11	BTB-01742239	40.03458	24064571	
11	ARS-BFGL-NGS-15908	40.08834	24102073	
11	BTB-00467532	40.12563	24128088	
11	BTB-00467512	40.15881	24151232	
11	ARS-BFGL-NGS-82790	40.19407	24175823	
11	Hapmap60548-rs29025725	40.22708	24198851	
11	BTB-00467445	40.29236	24244391	
11	ARS-BFGL-NGS-113100	40.34313	24279803	
11	BTA-88608-no-rs	40.39652	24317047	
11	ARS-BFGL-NGS-115431	40.48672	24379969	
11	Hapmap32290-BTA-126325	40.6146	24445657	
11	ARS-BFGL-NGS-34563	40.6622	24469874	
11	UA-IFASA-6098	40.79957	24539772	
11	ARS-USMARC-Parent-DQ837645-rs29015870	40.82558		24553007
11	Hapmap42452-BTA-120841	40.86257	24571828	
11	ARS-BFGL-NGS-12964	40.90248	24592135	
11	Hapmap48926-BTA-86576	40.98405	24633643	

11	BTB-00463917	41.03099	24657528
11	BTB-00463873	41.206	24746576
11	BTA-86574-no-rs	41.30214	24795491
11	ARS-BFGL-NGS-18406	41.34631	24817971
11	ARS-BFGL-NGS-37830	41.39616	24843332
11	BTA-86572-no-rs	41.4926	24892409
11	ARS-BFGL-NGS-115357	41.55522	24924270
11	ARS-BFGL-NGS-68987	41.69252	24994130
11	BTB-01537954	41.77644	25036830
11	ARS-BFGL-NGS-21715	41.8443	25092349
11	ARS-BFGL-NGS-29461	41.99503	25240446
11	ARS-BFGL-NGS-27885	42.09239	25336110
11	ARS-BFGL-BAC-5846	42.11649	25359786
11	ARS-BFGL-NGS-94153	42.14097	25383840
11	ARS-BFGL-NGS-20828	42.17659	25418833
11	BTA-89843-no-rs	42.20167	25443477
11	ARS-BFGL-NGS-29851	42.30398	25544002
11	ARS-BFGL-NGS-89024	42.39597	25634382
11	BTB-00469321	42.47837	25707098
11	Hapmap42357-BTA-89853	42.51382	25736918
11	BTA-90847-no-rs	42.60344	25812302
11	ARS-BFGL-NGS-5488	42.633	25837168
11	ARS-BFGL-NGS-115481	42.66616	25865059
11	BTA-36928-no-rs	42.96547	26067871
11	ARS-BFGL-NGS-6860	43.11026	26162970
11	BTB-01550704	43.1344	26185146
11	Hapmap54800-rs29014906	43.16831	26222312
11	BTB-00601827	43.20014	26257193
11	Hapmap49136-BTA-36934	43.23055	26290518
11	UA-IFASA-4316	43.32551	26394588
11	UA-IFASA-8334	43.34485	26415787
11	ARS-BFGL-NGS-111662	43.36486	26437717
11	BTB-00552225	43.4427	26495513
11	Hapmap38891-BTA-35860	43.47387	26517882
11	Hapmap27378-BTA-126277	43.59189	26602571
11	Hapmap51509-BTA-86526	43.64	26727988
11	ARS-BFGL-NGS-116433	43.64	26808725
11	Hapmap44191-BTA-109695	43.75474	26935140
11	ARS-BFGL-NGS-10436	43.80038	26982927
11	ARS-BFGL-NGS-103198	43.86855	27054291
11	ARS-BFGL-NGS-111248	43.89236	27079215
11	Hapmap23233-BTA-88497	43.95718	27147078
11	BTB-01399911	43.98052	27171513
11	ARS-BFGL-NGS-36356	44.01251	27205004
11	ARS-BFGL-NGS-114146	44.06247	27257304
11	ARS-BFGL-NGS-63481	44.18531	27385912
11	ARS-BFGL-NGS-118888	44.22145	27423745
11	ARS-BFGL-NGS-24935	44.28381	27489026
11	BTB-00470332	44.31303	27519615
11	ARS-BFGL-NGS-101857	44.37752	27587137
11	Hapmap48940-BTA-90883	44.45739	27670747
11	ARS-BFGL-NGS-82906	44.57543	27894797
11	ARS-BFGL-NGS-107291	44.6009	27948271
11	ARS-BFGL-NGS-39693	44.64103	28032517
11	BTA-119859-no-rs	44.65262	28056860
11	BTB-01260153	44.66491	28082671
11	BTB-01260228	44.6773	28108669
11	BTB-01260337	44.71291	28183453
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11	ARS-BFGL-NGS-75483	44.74707	28255163
11	Hapmap42722-BTA-90867	44.76178	28286065
11	ARS-BFGL-NGS-111484	44.78418	28333085
11	BTB-00470051	44.7964	28358739
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11	ARS-BFGL-NGS-22001	44.87795	28529964
11	ARS-BFGL-NGS-90469	44.88841	28551931
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11	UA-IFASA-9272	44.91268	28602889
11	ARS-BFGL-NGS-88689	44.94134	28663069
11	ARS-BFGL-NGS-101534	44.9787	28741505
11	ARS-BFGL-NGS-111483	44.99563	28777056
11	ARS-BFGL-NGS-87426	45.00998	28807185
11	ARS-BFGL-NGS-21332	45.02801	28845033
11	Hapmap44160-BTA-90850	45.03833	28866709
11	ARS-BFGL-NGS-55891	45.07507	28902978
11	BTB-00469462	45.10591	28931796
11	BTB-00465916	45.12216	28946979
11	ARS-BFGL-NGS-104873	45.17062	28992259
11	ARS-BFGL-NGS-118724	45.2285	29046346
11	ARS-BFGL-NGS-14086	45.26362	29079159
11	ARS-BFGL-NGS-45601	45.33233	29143359
11	ARS-BFGL-NGS-103581	45.36615	29174959
11	ARS-BFGL-NGS-58445	45.4011	29207614
11	ARS-BFGL-NGS-114530	45.42653	29231377
11	ARS-BFGL-NGS-112640	45.45617	29259074
11	ARS-BFGL-NGS-14040	45.49781	29297974
11	ARS-BFGL-NGS-14449	45.52853	29326683
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11	ARS-BFGL-NGS-62651	45.62576	29417529
11	BTB-01522198	45.65497	29444819
11	ARS-BFGL-NGS-5463	45.67987	29468087
11	ARS-BFGL-NGS-66241	45.70902	29495322
11	ARS-BFGL-NGS-15269	45.79795	29578421
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11	Hapmap27379-BTA-126337	45.84708	29624325
11	BTA-88624-no-rs	45.91846	29691021
11	Hapmap48511-BTA-88656	45.95394	29724170
11	ARS-BFGL-NGS-118268	45.98078	29749248
11	ARS-BFGL-NGS-68010	46.00774	29774437
11	ARS-BFGL-NGS-86581	46.05936	29822671
11	Hapmap41101-BTA-88647	46.08859	29849981
11	BTB-00467701	46.14	29912016
11	ARS-BFGL-NGS-108654	46.14	29969676
11	Hapmap38097-BTA-117206	46.14	30065164
11	ARS-BFGL-NGS-35518	46.14	30128818
11	BTB-01468914	46.14	30151802
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11	BTB-01469173	46.14	30198645
11	BTA-108168-no-rs	46.14	30220330
11	ARS-BFGL-NGS-30244	46.14	30262284
11	ARS-BFGL-NGS-89994	46.14	30298969
11	ARS-BFGL-NGS-113386	46.2107	30384332
11	BTB-01538150	46.29271	30425030
11	Hapmap27192-BTA-152811	46.34115	30449065
11	BTB-00471182	46.54851	30551963
11	Hapmap48121-BTA-90945	46.59498	30575025
11	BTB-00471167	46.66264	30608598
11	BTB-00489432	46.73195	30651364

11	ARS-BFGL-BAC-14892	46.76067	30676561	
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11	ARS-BFGL-NGS-82216	46.85957	30763348	
11	BTB-01872902	46.88902	30789183	
11	ARS-BFGL-NGS-83866	46.95961	30851124	
11	Hapmap48145-BTA-99651	47.00328	30889444	
11	BTA-99659-no-rs	47.06672	30945111	
11	ARS-BFGL-NGS-112032	47.08	30968132	
11	ARS-BFGL-NGS-101601	47.08	31078015	
11	BTB-00470779	47.08	31105767	
11	Hapmap45323-BTA-90907	47.08	31129384	
11	BTB-00470654	47.08	31130270	
11	ARS-BFGL-NGS-5623	47.08	31173613	
11	ARS-BFGL-NGS-41170	47.08	31193925	
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11	ARS-BFGL-NGS-23358	47.08	31259588	
11	ARS-BFGL-NGS-111198	47.08	31296603	
11	ARS-BFGL-NGS-117672	47.08401	31332721	
11	BTB-00468069	47.10029	31384897	
11	BTB-00468020	47.12508	31464382	
11	BTB-01061117	47.13494	31495990	
11	BTB-01061072	47.14352	31519537	
11	ARS-BFGL-NGS-59618	47.15446	31542258	
11	Hapmap44627-BTA-92953	47.16854	31571537	
11	BTA-122098-no-rs	47.2471	31734782	
11	Hapmap32340-BTA-149693	47.28612	31815858	
11	BTB-01060858	47.29819	31840941	
11	BTA-93103-no-rs	47.3133	31872332	
11	BTB-01060743	47.40659	32066197	
11	BTB-01060598	47.44847	32153221	
11	Hapmap23036-BTA-92969	47.48285	32224661	
11	BTB-01060279	47.53542	32333903	
11	BTB-01060234	47.57162	32409123	
11	BTB-01060160	47.58408	32435013	
11	BTB-01060112	47.59531	32458344	
11	Hapmap43090-BTA-88660	47.62154	32512853	
11	BTA-88672-no-rs	47.67725	32628633	
11	BTB-00471219	47.71615	32709462	
11	Hapmap25798-BTA-126388	47.72698	32731961	
11	ARS-BFGL-NGS-27262	47.74376	32766825	
11	Hapmap40257-BTA-91916	47.75445	32789048	
11	BTB-00471572	47.79314	32869454	
11	Hapmap51924-BTA-91924	47.80685	32897932	
11	BTB-00471616	47.82167	32928738	
11	ARS-BFGL-NGS-102066	47.83417	32954702	
11	Hapmap55997-rs29018149	47.84853	32984557	
11	ARS-BFGL-NGS-114551	47.86683	33014479	
11	BTB-01397376	48.0108	33143114	
11	BTB-01397452	48.03762	33167082	
11	BTB-01397485	48.11527	33236456	
11	Hapmap34629-BES7_Contig224_786		48.14735	33265117
11	BTA-110982-no-rs	48.25785	33348373	
11	BTB-02085709	48.32906	33388959	
11	ARS-BFGL-NGS-64150	48.46087	33464088	
11	BTB-01734254	48.59739	33541908	
11	BTB-01632890	48.69807	33599293	
11	BTB-01632913	48.77471	33642979	
11	BTB-01633028	48.84469	33682867	
11	BTB-01641061	48.93199	33732628	

11	BTB-01641011	48.99939	33771048
11	BTB-01683514	49.40689	33886580
11	Hapmap48258-BTA-24339	50.01812	33921550
11	Hapmap43102-BTA-92801	50.49353	33963793
11	BTB-01431728	50.50254	34002723
11	BTB-01293441	50.51775	34068419
11	BTB-01431917	50.53602	34147377
11	BTB-01293391	50.54956	34205857
11	Hapmap49517-BTA-18783	50.56524	34273579
11	BTB-02040693	50.60629	34450957
11	BTB-01426876	50.61352	34482175
11	BTB-01426967	50.62159	34517035
11	BTB-02007521	50.62859	34547272
11	BTB-01427085	50.63673	34582462
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11	ARS-BFGL-NGS-23240	51.14709	34813659
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11	ARS-BFGL-NGS-26795	51.31168	34919796
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11	BTB-00471717	51.44249	35004150
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11	ARS-BFGL-NGS-42851	51.5583	35078831
11	BTB-01897941	51.64508	35134796
11	BTB-01445949	51.69839	35169181
11	BTB-01256624	51.76324	35211001
11	Hapmap49478-BTA-119220	51.82712	35252190
11	Hapmap54261-rs29018776	51.88308	35288276
11	Hapmap53739-rs29018780	51.93112	35319258
11	ARS-BFGL-NGS-20444	51.96735	35342626
11	BTA-118779-no-rs	52.17042	35473575
11	Hapmap49064-BTA-122606	52.20132	35493503
11	BTA-15933-no-rs	52.25753	35529749
11	ARS-BFGL-NGS-38940	52.36488	35598979
11	Hapmap42089-BTA-118782	52.49708	35684228
11	BTA-21062-no-rs	52.5453	35715323
11	BTA-118786-no-rs	52.64887	35782717
11	BTA-106955-no-rs	52.81842	35897464
11	ARS-BFGL-NGS-112269	52.89765	35951082
11	BTB-00471723	52.94321	35988982
11	ARS-BFGL-NGS-18219	52.98872	36028575
11	ARS-BFGL-NGS-86487	53.06433	36067752
11	ARS-BFGL-NGS-13211	53.10378	36088191
11	ARS-BFGL-BAC-12958	53.4109	36247317
11	Hapmap59482-rs29019692	53.57602	36332869
11	ARS-BFGL-NGS-12523	53.64969	36371041
11	Hapmap43097-BTA-91955	54.0866	36597412
11	Hapmap40148-BTA-92999	54.3106	36713471
11	ARS-BFGL-NGS-52020	54.59675	36808946
11	ARS-BFGL-NGS-12702	54.87546	36893723
11	ARS-BFGL-NGS-113322	55.00036	36931716
11	BTA-93012-no-rs	55.07196	36953495
11	ARS-BFGL-NGS-66512	55.17004	36983331
11	ARS-BFGL-NGS-32737	55.58648	37110008
11	ARS-BFGL-NGS-66378	55.67142	37135843
11	ARS-BFGL-NGS-36327	55.77161	37169269
11	Hapmap57787-rs29011991	55.7891	37206682
11	ARS-BFGL-NGS-51235	55.79922	37228325
11	ARS-BFGL-NGS-18624	55.81456	37261133
11	Hapmap38297-BTA-23763	55.87066	37381127

11	ARS-BFGL-BAC-13600	55.89653	37436464	
11	Hapmap31720-BTA-126418	55.93543	37519673	
11	ARS-BFGL-NGS-57198	55.94952	37549808	
11	UA-IFASA-6619	55.97918	37613246	
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11	Hapmap55574-rs29015719	56.03539	37733470	
11	ARS-BFGL-NGS-117280	56.05877	37783495	
11	Hapmap34590-BES8_Contig394_1331	56.1022	37876375	
11	Hapmap46632-BTA-89801	56.13874	37954548	
11	ARS-BFGL-NGS-46705	56.23346	38157132	
11	Hapmap51861-BTA-86131	56.27	38375934	
11	Hapmap39146-BTA-89809	56.27	38445947	
11	Hapmap24189-BTA-123161	56.27	38474579	
11	Hapmap47774-BTA-89811	56.27	38512409	
11	ARS-BFGL-NGS-81796	56.27	38630429	
11	ARS-BFGL-BAC-14233	56.27	38652048	
11	ARS-BFGL-NGS-111166	56.27	38692849	
11	Hapmap24102-BTA-162287	56.27	38733905	
11	ARS-BFGL-NGS-4998	56.27	38760385	
11	ARS-BFGL-NGS-104328	56.27	38785741	
11	ARS-BFGL-NGS-110808	56.27	38858028	
11	ARS-BFGL-NGS-11777	56.27	38942740	
11	Hapmap33734-BTA-162283	56.27	39002510	
11	ARS-BFGL-NGS-11128	56.27	39104584	
11	ARS-BFGL-NGS-32998	56.28141	39151084	
11	ARS-BFGL-NGS-114070	56.32877	39211761	
11	Hapmap50810-BTA-89047	56.3976	39299927	
11	ARS-BFGL-NGS-100655	56.41961	39328123	
11	Hapmap33373-BTA-148341	56.50533	39437937	
11	ARS-BFGL-NGS-5155	56.53589	39477093	
11	ARS-BFGL-BAC-13660	56.59505	39552876	
11	Hapmap32339-BTA-149195	56.65977	39635793	
11	ARS-BFGL-BAC-13663	56.68197	39664222	
11	Hapmap44496-BTA-91437	56.70012	39687467	
11	Hapmap15326-rs29013300	56.7168	39708839	
11	Hapmap27268-BTA-91439	56.79469	39808625	
11	ARS-BFGL-NGS-112026	56.89488	39936968	
11	Hapmap24910-BTA-91988	57.00579	40079048	
11	ARS-BFGL-BAC-13667	57.02302	40101129	
11	Hapmap54997-rs29026974	57.0872	40183335	
11	ARS-BFGL-NGS-95739	57.25998	40414528	
11	Hapmap57336-rs29010216	57.56357	41114000	
11	Hapmap40850-BTA-98774	57.6492	41204355	
11	Hapmap42022-BTA-98782	57.71874	41277735	
11	ARS-BFGL-NGS-14714	57.75447	41315430	
11	ARS-BFGL-NGS-36765	57.81494	41379246	
11	ARS-BFGL-BAC-667	57.86181	41428700	
11	BTA-01960-rs29012913	57.96252	41534967	
11	ARS-BFGL-NGS-64295	58.06918	41647520	
11	Hapmap24893-BTA-27904	58.15726	41740456	
11	ARS-BFGL-NGS-10028	58.20418	41789973	
11	Hapmap54844-rs29022274	58.24	41833490	
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11	BTA-93062-no-rs	58.24	41992022	
11	Hapmap39698-BTA-93047	58.24	42070693	
11	BTA-99919-no-rs	58.24	42102223	
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11	ARS-BFGL-NGS-24591	58.24	42330073	

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11	ARS-BFGL-BAC-13009	58.3837	42480088
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11	Hapmap41109-BTA-93077	58.62317	42713681
11	BTA-93067-no-rs	58.71147	42799812
11	BTA-93093-no-rs	58.73	42852364
11	Hapmap56532-rs29016027	58.73	42876838
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11	ARS-BFGL-NGS-117393	58.81544	43000948
11	ARS-BFGL-NGS-103055	58.9684	43220203
11	ARS-BFGL-NGS-90639	59.02135	43296086
11	Hapmap58608-rs29014004	59.08369	43385446
11	BTA-13997-no-rs	59.10822	43420613
11	ARS-BFGL-NGS-33002	59.14426	43472272
11	Hapmap43729-BTA-94097	59.22461	43579130
11	BTA-23305-no-rs	59.38786	43720253
11	Hapmap58586-ss46526926	59.57981	43886198
11	ARS-BFGL-NGS-109037	59.60881	43911266
11	ARS-BFGL-NGS-40760	59.64459	43942195
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11	ARS-BFGL-NGS-43131	59.89107	44122489
11	Hapmap23331-BTA-161297	60.0652	44179527
11	ARS-BFGL-NGS-105778	60.15091	44207605
11	BTA-94155-no-rs	60.25373	44241286
11	ARS-BFGL-NGS-31730	60.32811	44265651
11	ARS-BFGL-NGS-1368	60.41709	44294802
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11	ARS-BFGL-NGS-112949	60.85942	44439698
11	ARS-BFGL-NGS-100264	60.91769	44458785
11	ARS-BFGL-NGS-16590	60.9789	44478837
11	Hapmap40407-BTA-23049	61.14108	44531959
11	ARS-BFGL-NGS-47330	61.23285	44562022
11	Hapmap43815-BTA-23051	61.297	44583035
11	ARS-BFGL-NGS-106173	61.38525	44611943
11	Hapmap57340-rs29010501	61.98922	44792485
11	ARS-BFGL-NGS-111691	62.37862	44844492
11	Hapmap49807-BTA-95128	62.73181	44891666
11	ARS-BFGL-NGS-81295	62.81	44927955
11	ARS-BFGL-NGS-28851	62.81	44967763
11	BTA-95130-no-rs	62.82585	45008048
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11	ARS-BFGL-NGS-10350	62.90552	45130713
11	ARS-BFGL-NGS-112202	62.91981	45152718
11	ARS-BFGL-NGS-109763	62.93464	45175551
11	BTA-89336-no-rs	62.99182	45267174
11	ARS-BFGL-NGS-28924	63.03992	45346657
11	ARS-BFGL-NGS-91269	63.11467	45470166
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11	Hapmap43116-BTA-97124	63.24699	45688827
11	ARS-BFGL-NGS-19839	63.27592	45736640
11	ARS-BFGL-NGS-117372	63.28932	45758781
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11	BTA-97105-no-rs	63.37109	45893893

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11	ARS-BFGL-NGS-36885	63.43983	46007498	
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11	Hapmap26804-BTA-97085	63.49089	46091862	
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11	ARS-BFGL-NGS-39762	63.53477	46241894	
11	ARS-BFGL-NGS-33830	63.54853	46307696	
11	ARS-BFGL-NGS-27190	63.55544	46340701	
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11	ARS-BFGL-NGS-36900	63.602	46563366	
11	ARS-BFGL-NGS-37630	63.60764	46590323	
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11	ARS-BFGL-NGS-1883	63.63794	46735224	
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11	ARS-BFGL-NGS-113289	63.65556	46819460	
11	Hapmap42156-BTA-26114	63.66152	46847994	
11	ARS-BFGL-NGS-40907	63.66791	46878517	
11	ARS-BFGL-BAC-6591	63.68081	46940237	
11	ARS-BFGL-NGS-36923	63.68652	46967507	
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11	BTA-100635-no-rs	63.72428	47148092	
11	Hapmap59563-rs29017556	63.73172	47183635	
11	ARS-BFGL-NGS-108114	63.73724	47210051	
11	Hapmap35985-SCAFFOLD87273_8202	63.75252	47283116	47283116
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11	BTA-97080-no-rs	63.7641	47338489	
11	ARS-BFGL-BAC-6606	63.7689	47361429	
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11	ARS-BFGL-NGS-101771	63.81	47667214	
11	ARS-BFGL-NGS-1792	63.81	47803744	
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11	ARS-BFGL-NGS-103900	63.81	48066628	
11	Hapmap49391-BTA-97040	63.81	48155240	
11	Hapmap38795-BTA-97039	63.81	48179532	
11	Hapmap52811-ss46526817	63.81	48235519	
11	ARS-BFGL-NGS-81863	63.81	48300018	
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11	ARS-BFGL-NGS-101636	63.81	48473153	
11	ARS-BFGL-NGS-107346	63.81	48495399	
11	ARS-BFGL-NGS-75906	63.81	48545880	
11	ARS-BFGL-NGS-100960	63.81	48699068	
11	ARS-BFGL-NGS-68510	63.81	48739496	
11	ARS-BFGL-NGS-108232	63.81	48795556	
11	Hapmap59833-rs29027583	63.81	48827893	
11	Hapmap43414-BTA-96067	63.81	48881609	
11	BTA-96068-no-rs	63.81	48970210	
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11	ARS-BFGL-NGS-90404	63.81	49242330	



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11	ARS-BFGL-NGS-81824	63.8134	49322620
11	Hapmap48534-BTA-96124	63.81766	49374782
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11	Hapmap47448-BTA-96139	63.84175	49669569
11	ARS-BFGL-NGS-12433	63.84346	49690585
11	ARS-BFGL-NGS-75350	63.84704	49734417
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11	BTB-01568059	63.8567	49852621
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11	BTB-01401975	63.86158	49912381
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11	Hapmap57382-rs29020516	63.86722	49981376
11	BTA-88741-no-rs	63.86917	50005266
11	ARS-BFGL-NGS-113144	63.87216	50041843
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11	Hapmap38739-BTA-25571	63.88496	50198437
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11	BTB-01660245	63.89387	50307524
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11	BTB-00474595	63.91526	50569415
11	BTB-00474587	63.91718	50592880
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11	ARS-BFGL-NGS-66339	63.95386	51041758
11	ARS-BFGL-NGS-17103	63.95716	51082229
11	Hapmap25657-BTA-93401	63.97	51251634
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11	BTA-26769-no-rs	63.97	51482600
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11	Hapmap33275-BTA-98050	63.97	52045971
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11	ARS-BFGL-NGS-43856	63.97	53334055
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11	Hapmap32633-BTA-157234	63.97	53778535
11	ARS-BFGL-NGS-11740	63.97	54193489
11	Hapmap23883-BTA-150314	63.97	54218975
11	ARS-BFGL-NGS-106815	63.97	54246625

11	Hapmap39099-BTA-94819	63.97	54366771	
11	ARS-BFGL-NGS-7469	63.97	54417014	
11	Hapmap39795-BTA-98059	63.97	54730416	
11	Hapmap27153-BTA-126567	63.97	54765154	
11	UA-IFASA-1529	63.97	54794949	
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11	ARS-BFGL-NGS-103442	63.97	54887301	
11	ARS-BFGL-NGS-42944	63.97	54946590	
11	BTA-98077-no-rs	63.97	54970636	
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11	BTB-01638234	63.97	55229674	
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11	Hapmap44417-BTA-88062	63.97	55290247	
11	Hapmap38708-BTA-88091	63.97	55345639	
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11	ARS-BFGL-NGS-31161	63.97	55456977	
11	Hapmap41377-BTA-88086	63.97	55496607	
11	BTA-88089-no-rs	63.97	55531725	
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11	ARS-BFGL-NGS-21601	63.97	55623112	
11	BTA-97179-no-rs	63.97	55651215	
11	Hapmap39605-BTA-97170	63.97	55745998	
11	BTA-122722-no-rs	63.97	55766410	
11	Hapmap42798-BTA-109203	63.97	55809281	
11	ARS-BFGL-NGS-73214	63.97	55946129	
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11	ARS-BFGL-NGS-32183	64.0638	56709031	
11	Hapmap42382-BTA-98087	64.08978	56800152	
11	ARS-BFGL-NGS-94091	64.09698	56825445	
11	Hapmap51103-BTA-98088	64.1063	56858167	
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11	ARS-BFGL-NGS-105803	64.21	57465783	
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11	Hapmap51531-BTA-98947	64.21	57522675	
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11	BTB-01328920	64.21	57639084	
11	BTB-01652806	64.21	57882097	
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11	BTB-01353217	64.28446	58337445	
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11	Hapmap44164-BTA-92933	64.36202	58479028	

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11	Hapmap51539-BTA-105753	64.38714	58524865
11	BTA-105747-no-rs	64.45661	58651670
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11	ARS-BFGL-NGS-109923	64.48673	58706654
11	BTB-01180711	64.51319	58754953
11	ARS-BFGL-BAC-12355	64.52869	58783251
11	Hapmap42045-BTA-105766	64.56218	58844378
11	ARS-BFGL-NGS-118165	64.56863	58856144
11	ARS-BFGL-NGS-44565	64.59131	58897545
11	Hapmap32152-BTA-29315	64.62714	58962936
11	BTB-01454143	64.65093	59006381
11	BTA-122120-no-rs	64.67373	59047987
11	ARS-BFGL-NGS-82127	64.70797	59110486
11	Hapmap59738-rs29016857	64.7355	59160754
11	Hapmap60204-rs29026371	64.74945	59186199
11	Hapmap53406-rs29014440	64.80133	59280903
11	Hapmap48543-BTA-98093	64.8248	59319163
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11	BTB-00475498	64.86611	59381768
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11	BTB-01836963	64.91672	59458469
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11	BTB-01652151	64.94552	59622185
11	BTB-01947403	64.95047	59668010
11	BTB-01475120	64.9566	59724651
11	Hapmap43807-BTA-21732	64.9596	59752454
11	Hapmap59053-rs29015825	65.00815	59794805
11	Hapmap32032-BTA-128772	65.06948	59844058
11	BTA-14202-rs29022967	65.42345	60128321
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11	Hapmap47238-BTA-30090	65.60706	60275771
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11	Hapmap57413-rs29022363	65.79472	60426473
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11	Hapmap41117-BTA-99065	65.98457	60548547
11	BTA-99085-no-rs	66.08066	60572203
11	BTA-99088-no-rs	66.20181	60602028
11	Hapmap48973-BTA-99093	66.62624	60706511
11	ARS-BFGL-NGS-29366	66.7579	60738925
11	Hapmap50528-BTA-99089	66.98794	60795555
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11	ARS-BFGL-NGS-24498	67.33147	60880125
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11	Hapmap48142-BTA-99107	67.56914	60938631
11	ARS-BFGL-NGS-110394	67.71298	60974044
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11	BTA-117086-no-rs	67.79704	61056773
11	ARS-BFGL-NGS-109370	67.8119	61080039
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11	BTA-98135-no-rs	67.94876	61294221
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11	Hapmap29025-BTA-156546	68.26309	61786150	
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11	Hapmap47796-BTA-99180	68.40919	62014800	
11	Hapmap44210-BTA-120859	68.44275	62067321	
11	ARS-BFGL-NGS-47907	68.47866	62123525	
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11	Hapmap34935-BES11_Contig422_2192	68.53463	62211117	62211117
11	Hapmap43430-BTA-100124	68.56818	62263631	
11	Hapmap42394-BTA-100120	68.65035	62392223	
11	Hapmap49855-BTA-108530	68.70221	62473382	
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11	ARS-BFGL-NGS-76191	68.86775	62732451	
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11	BTA-100171-no-rs	69.11029	63059927	
11	BTA-99123-no-rs	69.16028	63114545	
11	Hapmap41118-BTA-99124	69.18733	63144107	
11	ARS-BFGL-NGS-111061	69.3639	63337021	
11	ARS-BFGL-NGS-103794	69.39646	63372591	
11	ARS-BFGL-NGS-102748	69.43063	63409930	
11	Hapmap59148-ss46527122	69.44916	63430172	
11	Hapmap42754-BTA-99156	69.48333	63467507	
11	Hapmap59882-rs29018917	69.51792	63505299	
11	BTA-29318-no-rs	69.53982	63529222	
11	Hapmap42760-BTA-04812	69.58168	63574961	
11	Hapmap45969-BTA-100173	69.6835	63686208	
11	ARS-BFGL-NGS-100837	69.71586	63721560	
11	ARS-BFGL-NGS-41687	69.75041	63759322	
11	ARS-BFGL-NGS-7963	69.7854	63797549	
11	ARS-BFGL-NGS-18313	69.82475	63840544	
11	ARS-BFGL-NGS-115877	69.84605	63863803	
11	ARS-BFGL-NGS-107486	69.89086	63912771	
11	ARS-BFGL-NGS-19268	69.91574	63939950	
11	ARS-BFGL-BAC-13049	69.98821	64019136	
11	ARS-BFGL-NGS-114087	70.02364	64057850	
11	Hapmap34879-BES7_Contig396_841	70.06776	64106039	64106039
11	ARS-BFGL-NGS-100607	70.09626	64137185	
11	Hapmap48619-BTA-113290	70.11634	64159128	
11	ARS-BFGL-NGS-43985	70.13953	64184454	
11	ARS-BFGL-NGS-83732	70.17569	64223964	
11	ARS-BFGL-NGS-119320	70.21711	64269224	
11	ARS-BFGL-NGS-12929	70.25786	64313748	
11	BTA-101039-no-rs	70.28143	64339498	
11	ARS-BFGL-NGS-106368	70.30701	64367438	
11	Hapmap49407-BTA-101030	70.36786	64433929	
11	ARS-BFGL-NGS-89007	70.46292	64537797	
11	ARS-BFGL-NGS-112469	70.54307	64625361	
11	ARS-BFGL-BAC-14299	70.65005	64742252	
11	ARS-BFGL-NGS-3936	70.74409	64844989	
11	ARS-BFGL-NGS-33664	70.80059	64906730	

11	ARS-BFGL-NGS-44192	70.94718	65066890		
11	ARS-BFGL-NGS-7430	71.00835	65133710		
11	BTA-99736-no-rs	71.15149	65290109		
11	Hapmap45591-BTA-99735	71.17483	65315609		
11	ARS-BFGL-NGS-91335	71.23942	65386179		
11	ARS-BFGL-NGS-91014	71.33739	65493222		
11	BTA-04725-no-rs	71.40385	65565844		
11	Hapmap54405-rs29021155	71.42636	65590436		
11	ARS-BFGL-NGS-54666	71.48664	65656294		
11	ARS-BFGL-NGS-52860	71.51432	65686532		
11	ARS-BFGL-BAC-14935	71.62979	65925331		
11	Hapmap60779-rs29022104	71.65352	65975590		
11	ARS-BFGL-BAC-14940	71.66625	66002572		
11	BTA-99142-no-rs	71.69958	66073158		
11	ARS-BFGL-NGS-16753	71.72087	66118270		
11	ARS-BFGL-NGS-107491	71.73756	66153626		
11	ARS-BFGL-NGS-3540	71.76839	66218925		
11	ARS-USMARC-Parent-DQ837643-rs29018818	71.82629	66341589		
11	BTA-101061-no-rs	71.87767	66450428		
11	ARS-BFGL-NGS-114858	71.89032	66477233		
11	ARS-BFGL-NGS-12836	71.91692	66533595		
11	ARS-BFGL-NGS-31946	71.92683	66554571		
11	ARS-BFGL-NGS-109780	72.03764	66789317		
11	ARS-BFGL-NGS-115617	72.07331	66864873		
11	UA-IFASA-8511	72.11195	66946746		
11	UA-IFASA-5376	72.12499	66974370		
11	ARS-BFGL-NGS-78948	72.14502	67016791		
11	ARS-BFGL-NGS-80773	72.16523	67059602		
11	Hapmap39479-BTA-27512	72.17	67083550		
11	ARS-BFGL-NGS-64740	72.17	67185874		
11	ARS-BFGL-NGS-103217	72.17	67257038		
11	ARS-BFGL-NGS-116982	72.17	67319888		
11	Hapmap48671-BTA-17038	72.17	67383421		
11	ARS-BFGL-NGS-104626	72.17	67421419		
11	ARS-BFGL-NGS-34099	72.17	67445963		
11	ARS-BFGL-NGS-18300	72.17	67498111		
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11	ARS-BFGL-NGS-82619	72.17	67559090		
11	ARS-BFGL-NGS-38946	72.17	67592479		
11	ARS-BFGL-NGS-32754	72.17	67626052		
11	ARS-BFGL-NGS-39751	72.25401	67725058		
11	ARS-BFGL-NGS-114897	72.28273	67750746		
11	Hapmap41399-BTA-101088	72.34153	67803326		
11	BTA-101085-no-rs	72.37173	67830333		
11	ARS-BFGL-NGS-1900	72.40225	67862943		
11	Hapmap51371-BTA-101084	72.41	67892519		
11	BTA-07453-no-rs	72.41	67944693		
11	Hapmap48260-BTA-24589	72.62444	68036682		
11	BTA-101072-no-rs	72.73946	68085486		
11	ARS-BFGL-NGS-110881	72.82244	68120700		
11	Hapmap34845-BES7_Contig520_696	73.19118	68277183		
11	Hapmap12055-BTA-86516	73.2414	68298497		
11	ARS-BFGL-NGS-116693	73.36955	68352879		
11	ARS-BFGL-BAC-15562	73.47073	68395814		
11	Hapmap35713-SCAFFOLD296111_2548	73.9348	68592752		
11	BTA-101106-no-rs	73.98713	68614963		
11	ARS-BFGL-NGS-93037	74.09896	68662418		
11	ARS-BFGL-NGS-10829	74.15778	68687376		
11	ARS-BFGL-NGS-13199	74.25328	68727902		

11	ARS-BFGL-NGS-26272	74.32816	68759678	
11	ARS-BFGL-NGS-118730	74.47221	68820809	
11	ARS-BFGL-NGS-108785	74.56471	68860065	
11	Hapmap35323-BES2_Contig305_891	74.69234	68914228	
11	ARS-BFGL-NGS-556	74.74887	68938216	
11	Hapmap42399-BTA-102134	74.82914	68972281	
11	Hapmap36263-SCAFFOLD265651_7554	74.98855	69039926	
11	ARS-BFGL-NGS-114204	75.13742	69103108	
11	ARS-BFGL-NGS-77753	75.2613	69155670	
11	Hapmap45971-BTA-102151	75.34238	69190084	
11	Hapmap27139-BTA-102152	75.40365	69216078	
11	ARS-BFGL-BAC-15570	75.46207	69240871	
11	ARS-BFGL-NGS-70302	75.53193	69270522	
11	Hapmap55492-rs29026395	75.60924	69303324	
11	ARS-BFGL-BAC-15571	75.74033	69380054	
11	ARS-BFGL-NGS-67531	75.79565	69418071	
11	ARS-BFGL-NGS-30983	75.87406	69471955	
11	Hapmap47549-BTA-25561	75.92481	69506822	
11	ARS-BFGL-NGS-14201	75.95709	69529012	
11	ARS-BFGL-NGS-110885	76.01173	69566554	
11	ARS-BFGL-NGS-110913	76.05128	69593730	
11	ARS-BFGL-NGS-78923	76.11101	69634769	
11	BTA-105548-no-rs	76.15774	69666879	
11	BTA-28849-no-rs	76.40373	69835914	
11	ARS-BFGL-NGS-22048	76.47483	69884769	
11	BTA-28852-no-rs	76.6664	70016398	
11	ARS-BFGL-NGS-10615	76.73798	70065583	
11	ARS-BFGL-NGS-103799	76.87195	70106153	
11	ARS-BFGL-NGS-26049	76.99886	70134982	
11	Hapmap41131-BTA-103178	77.2374	70201515	
11	ARS-BFGL-NGS-51970	77.3532	70309933	
11	Hapmap53195-rs29011519	77.4103	70363411	
11	ARS-BFGL-NGS-28978	77.49093	70438902	
11	ARS-BFGL-NGS-101356	77.59647	70537728	
11	ARS-BFGL-NGS-36271	77.65983	70597052	
11	ARS-BFGL-NGS-101505	77.71167	70645590	
11	Hapmap51788-BTA-102182	77.75841	70703633	
11	UA-IFASA-7706	77.79401	70750209	
11	Hapmap48562-BTA-102172	77.85506	70830080	
11	Hapmap40038-BTA-102170	77.89263	70879221	
11	ARS-BFGL-NGS-110450	78.0224	71048976	
11	BTA-07322-no-rs	78.05391	71090191	
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11	ARS-BFGL-NGS-20385	78.17731	71251616	
11	ARS-BFGL-NGS-20691	78.21832	71305272	
11	ARS-BFGL-NGS-5238	78.24749	71343431	
11	ARS-BFGL-NGS-106460	78.26469	71365918	
11	ARS-BFGL-NGS-66964	78.28407	71391284	
11	Hapmap57647-rs29022293	78.34112	71465910	
11	Hapmap36578-SCAFFOLD155529_13150	78.38281	71520448	
11	ARS-BFGL-BAC-15583	78.54665	71734779	
11	Hapmap24000-BTA-150203	78.60543	71811673	
11	BTA-05094-no-rs	78.65454	71875910	
11	BTA-104232-no-rs	78.78645	72091322	
11	Hapmap50593-BTA-120868	78.81408	72159929	
11	ARS-BFGL-NGS-37893	79.18171	72476622	
11	ARS-BFGL-NGS-20173	79.36228	72555948	
11	Hapmap29423-BTA-126740	79.54349	72635559	

11	ARS-BFGL-NGS-6162	79.76467	72732727
11	Hapmap44798-BTA-104292	79.84275	72767035
11	ARS-BFGL-NGS-24347	79.93752	72808667
11	Hapmap633-BTA-104291	80.01913	72844521
11	ARS-BFGL-NGS-116021	80.0655	72864887
11	ARS-BFGL-NGS-22364	80.1471	72900738
11	ARS-BFGL-NGS-110283	80.2374	72940410
11	ARS-BFGL-NGS-74702	80.31281	72973534
11	ARS-BFGL-NGS-11057	80.39311	73014799
11	ARS-BFGL-NGS-20479	80.40472	73042236
11	ARS-BFGL-NGS-83128	80.41598	73068822
11	ARS-BFGL-NGS-12662	80.42583	73092085
11	ARS-BFGL-NGS-84969	80.43746	73119591
11	ARS-BFGL-NGS-37998	80.45071	73150873
11	Hapmap58572-ss46526046	80.47827	73216006
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11	ARS-BFGL-NGS-111034	80.56615	73423641
11	ARS-BFGL-NGS-41448	80.58585	73470176
11	BTA-104271-no-rs	80.6048	73514952
11	Hapmap27575-BTA-126727	80.70564	73753220
11	Hapmap51991-BTA-104263	80.73521	73823078
11	ARS-BFGL-NGS-533	80.7823	73934314
11	ARS-BFGL-NGS-26350	80.80003	73976212
11	ARS-BFGL-NGS-115531	80.82626	74038177
11	ARS-BFGL-NGS-102717	80.84362	74079196
11	Hapmap35883-POMC_121F2-SNP1	80.85946	74116630
11	ARS-BFGL-NGS-39507	80.86903	74139241
11	BTA-104251-no-rs	80.87819	74160869
11	ARS-BFGL-NGS-111941	80.89371	74197538
11	ARS-BFGL-NGS-96144	80.91061	74237492
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11	ARS-BFGL-NGS-90250	80.96018	74354594
11	ARS-BFGL-NGS-65485	80.98566	74414798
11	BTA-12956-rs29024900	81.00429	74458809
11	ARS-BFGL-BAC-11783	81.06572	74603943
11	ARS-BFGL-NGS-6438	81.12321	74739772
11	Hapmap51971-BTA-18711	81.17734	74867653
11	ARS-BFGL-NGS-19413	81.18356	75039655
11	ARS-BFGL-NGS-41101	81.18462	75089365
11	Hapmap51794-BTA-105248	81.18827	75259019
11	Hapmap39303-BTA-105247	81.18906	75295616
11	ARS-BFGL-NGS-110868	81.18978	75329413
11	ARS-BFGL-NGS-119401	81.21218	75352649
11	ARS-BFGL-NGS-11925	81.26228	75381605
11	ARS-BFGL-NGS-108039	81.40009	75461248
11	ARS-BFGL-NGS-58504	81.41707	75471064
11	ARS-BFGL-NGS-4523	81.46017	75495975
11	ARS-BFGL-NGS-18369	81.50167	75519957
11	ARS-BFGL-NGS-102827	81.5784	75564305
11	ARS-BFGL-NGS-113325	81.61652	75586338
11	ARS-BFGL-NGS-53123	81.74779	75662200
11	ARS-BFGL-NGS-12720	81.78639	75684514
11	ARS-BFGL-NGS-35610	81.85823	75726030
11	Hapmap47819-BTA-105250	81.91799	75760570
11	ARS-BFGL-NGS-89642	82.00598	75811425
11	ARS-BFGL-NGS-24112	82.12405	75879665
11	Hapmap25799-BTA-126762	82.29247	75976999
11	ARS-BFGL-NGS-113105	82.35353	76012286
11	BTA-105268-no-rs	82.59411	76171277

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11	ARS-BFGL-NGS-66357	82.84669	76354822	
11	Hapmap58551-rs29023108	83.03014	76488136	
11	Hapmap54750-rs29013770	83.1565	76579962	
11	Hapmap50195-BTA-105299	83.20564	76615660	
11	Hapmap44632-BTA-105300	83.28827	76675708	
11	ARS-BFGL-NGS-92911	83.45171	76910253	
11	Hapmap51377-BTA-106302	83.47221	76931025	
11	Hapmap36385-SCAFFOLD47483_528	83.56338	77048628	
11	Hapmap51378-BTA-106310	83.57309	77076811	
11	Hapmap33713-BTA-126768	83.58068	77098826	
11	Hapmap40478-BTA-106311	83.60157	77159423	
11	Hapmap34906-BES11_Contig369_1053	83.62792	77235847	
11	Hapmap61046-rs29018852	83.64111	77274120	
11	Hapmap42783-BTA-106327	83.66065	77330791	
11	ARS-BFGL-NGS-80260	83.66844	77353382	
11	ARS-BFGL-NGS-107543	83.68607	77404521	
11	ARS-BFGL-NGS-56195	83.71684	77493775	
11	ARS-BFGL-NGS-8919	83.73537	77560928	
11	UA-IFASA-4453	83.76776	77735570	
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11	ARS-BFGL-NGS-3456	83.84	78377128	
11	ARS-BFGL-NGS-114020	83.96964	78420248	
11	Hapmap27861-BTA-126818	84.35432	78468627	
11	ARS-BFGL-NGS-11105	84.6843	78510118	
11	Hapmap41140-BTA-107332	84.96178	78545016	
11	Hapmap24334-BTA-126817	85.18553	78645742	
11	ARS-BFGL-NGS-32286	85.2523	78685302	
11	ARS-BFGL-NGS-85521	85.2909	78708174	
11	ARS-BFGL-NGS-117037	85.32571	78728798	
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11	BTA-99263-no-rs	86.65304	79493646	
11	Hapmap54785-rs29011068	86.74528	79516725	
11	Hapmap49851-BTA-107323	87.26049	79657302	
11	BTA-107324-no-rs	87.28397	79689265	
11	BTA-107325-no-rs	87.30157	79713197	
11	Hapmap51367-BTA-99264	87.34811	79776541	
11	Hapmap59372-rs29018442	87.36617	79801116	



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11	Hapmap27739-BTA-126803	87.54739	80047731
11	BTA-107321-no-rs	87.59105	80107135
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11	Hapmap39216-BTA-107320	87.70446	80261461
11	BTA-107309-no-rs	87.72066	80283508
11	Hapmap55785-rs29024486	87.7571	80333103
11	Hapmap47169-BTA-107308	87.8455	80450475
11	Hapmap44494-BTA-90423	87.98882	80637936
11	Hapmap43398-BTA-90422	88.00627	80660777
11	Hapmap53035-rs29011511	88.02301	80682671
11	Hapmap54112-rs29011508	88.04124	80706513
11	ARS-BFGL-NGS-41612	88.05961	80730546
11	ARS-BFGL-NGS-95608	88.09314	80774399
11	ARS-BFGL-NGS-25539	88.14272	80839258
11	ARS-BFGL-NGS-7212	88.18754	80897892
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11	ARS-BFGL-BAC-11121	88.22624	80948516
11	ARS-BFGL-BAC-16257	88.2522	80982482
11	ARS-BFGL-NGS-91517	88.48	81282660
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11	BTA-107661-no-rs	88.48	81484369
11	Hapmap39249-BTA-107660	88.52404	81568010
11	Hapmap58678-rs29019237	88.64071	81689400
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11	ARS-BFGL-NGS-105586	88.7903	81845043
11	Hapmap53157-rs29013358	88.83126	81887656
11	ARS-BFGL-NGS-1534	88.89003	81948811
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11	ARS-BFGL-NGS-26123	89.16648	82236437
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11	ARS-BFGL-NGS-17721	89.20251	82324709
11	ARS-BFGL-NGS-88133	89.20651	82409810
11	ARS-BFGL-NGS-87124	89.20763	82433558
11	ARS-BFGL-NGS-98531	89.21305	82548897
11	Hapmap46768-BTA-117394	89.21748	82643114
11	Hapmap3246-BTA-17059	89.21962	82688494
11	Hapmap40665-BTA-119811	89.22141	82726422
11	BTA-119803-no-rs	89.2254	82811186
11	ARS-BFGL-NGS-5371	89.22645	82833655
11	ARS-BFGL-NGS-93601	89.23799	82920732
11	ARS-BFGL-NGS-19406	89.26466	82959206
11	Hapmap56387-rs29014077	89.281	82982779
11	ARS-BFGL-NGS-5662	89.31297	83028893
11	ARS-BFGL-NGS-6222	89.36168	83099183
11	ARS-BFGL-NGS-118794	89.38512	83132988
11	Hapmap22874-BTA-153755	89.40947	83168133
11	ARS-BFGL-NGS-18848	89.42654	83192752
11	ARS-BFGL-NGS-117663	89.44525	83219755
11	ARS-BFGL-NGS-39818	89.4911	83285910
11	ARS-BFGL-NGS-13091	89.58878	83426839
11	Hapmap40477-BTA-105881	89.65783	83526455
11	Hapmap46918-BTA-105873	89.67635	83553172
11	ARS-BFGL-NGS-109727	89.69866	83585365
11	ARS-BFGL-NGS-63978	89.73515	83637998
11	ARS-BFGL-NGS-31004	89.75119	83661143
11	Hapmap40163-BTA-107343	89.76558	83681904

11	ARS-BFGL-NGS-41942	89.8041	83737492
11	ARS-BFGL-NGS-102088	89.8453	83796925
11	BTA-108432-no-rs	89.87183	83835205
11	ARS-BFGL-NGS-34903	89.89446	83867859
11	ARS-BFGL-BAC-7321	89.92449	83911173
11	Hapmap52546-rs29026760	89.94312	83938054
11	ARS-BFGL-BAC-7319	89.9668	83972216
11	BTA-108440-no-rs	90.04393	84083499
11	ARS-BFGL-BAC-7336	90.16363	84410993
11	Hapmap40930-BTA-26841	90.20174	84641360
11	BTA-26840-no-rs	90.22535	84784082
11	ARS-BFGL-NGS-104652	90.23262	84828071
11	ARS-BFGL-NGS-2015	90.23994	84872349
11	ARS-BFGL-NGS-83288	90.2444	84899274
11	Hapmap28038-BTA-126868	90.25244	84947879
11	ARS-BFGL-NGS-106748	90.25686	84974574
11	Hapmap59639-rs29012044	90.26069	84997734
11	BTA-120874-no-rs	90.26455	85021084
11	Hapmap52066-rs29015690	90.28647	85153576
11	BTA-61777-no-rs	90.29288	85192381
11	ARS-BFGL-NGS-37939	90.29676	85215807
11	ARS-BFGL-NGS-107825	90.30579	85270375
11	ARS-BFGL-NGS-110235	90.32178	85367073
11	ARS-BFGL-NGS-43769	90.33482	85445919
11	Hapmap57048-rs29017217	90.35617	85574952
11	ARS-BFGL-NGS-111563	90.36	85740344
11	Hapmap39304-BTA-109342	90.36	85779114
11	Hapmap38876-BTA-109334	90.36	85906433
11	BTA-120876-no-rs	90.36	85935590
11	ARS-BFGL-NGS-108297	90.36	85982743
11	ARS-BFGL-NGS-14236	90.36	86048363
11	ARS-BFGL-NGS-31396	90.36697	86071763
11	ARS-BFGL-NGS-115717	90.41677	86093825
11	ARS-BFGL-NGS-115957	90.61703	86182547
11	Hapmap48178-BTA-109351	90.7516	86242159
11	ARS-BFGL-NGS-104379	91.34365	86497486
11	Hapmap53648-rs29021240	91.44024	86569656
11	ARS-BFGL-NGS-105912	91.55514	86655500
11	ARS-BFGL-NGS-105624	91.63058	86711869
11	ARS-BFGL-NGS-116569	91.68425	86751976
11	ARS-BFGL-NGS-119913	91.72093	86779385
11	ARS-BFGL-NGS-116253	91.75321	86803507
11	ARS-BFGL-NGS-56581	91.83633	86865609
11	ARS-BFGL-NGS-43715	91.86638	86888060
11	ARS-BFGL-NGS-17731	91.91718	86926025
11	ARS-BFGL-NGS-35730	91.96727	86965492
11	ARS-BFGL-NGS-90069	92.0057	87004961
11	ARS-BFGL-NGS-21314	92.03587	87035961
11	ARS-BFGL-BAC-7339	92.0588	87059504
11	ARS-BFGL-BAC-7337	92.08053	87081828
11	ARS-BFGL-NGS-33784	92.12219	87124625
11	ARS-BFGL-NGS-38084	92.16876	87172464
11	Hapmap52090-rs29022201	92.19655	87201011
11	BTA-10539-no-rs	92.23021	87235587
11	BTA-110370-no-rs	92.25163	87257595
11	ARS-BFGL-NGS-114578	92.27248	87279008
11	ARS-BFGL-NGS-64278	92.3207	87342165
11	ARS-BFGL-NGS-89483	92.32379	87405137
11	ARS-BFGL-NGS-102660	92.32628	87455875

11	ARS-BFGL-BAC-16216	92.32838	87498559
11	BTA-110426-no-rs	92.33102	87552531
11	ARS-BFGL-BAC-16215	92.33231	87578836
11	ARS-BFGL-NGS-29506	92.3335	87603011
11	BTA-110429-no-rs	92.3368	87670344
11	BTA-110431-no-rs	92.33787	87692024
11	ARS-BFGL-NGS-26830	92.34058	87747312
11	ARS-BFGL-NGS-116951	92.34285	87793629
11	ARS-BFGL-NGS-70263	92.34435	87824167
11	ARS-BFGL-NGS-83068	92.34874	87913641
11	ARS-BFGL-BAC-16207	92.35297	87999946
11	ARS-BFGL-NGS-37074	92.35439	88028793
11	ARS-BFGL-NGS-23541	92.35559	88053364
11	ARS-BFGL-NGS-113560	92.35664	88074583
11	Hapmap46930-BTA-111382	92.36214	88186796
11	ARS-BFGL-NGS-22703	92.36562	88257720
11	Hapmap28132-BTA-149463	92.38306	88377200
11	ARS-BFGL-NGS-105605	92.3999	88416017
11	ARS-BFGL-NGS-37662	92.40928	88437613
11	ARS-BFGL-BAC-12412	92.45271	88537653
11	Hapmap39967-BTA-111376	92.47848	88596997
11	ARS-BFGL-NGS-45263	92.48911	88621486
11	ARS-BFGL-NGS-12282	92.50978	88669116
11	ARS-BFGL-NGS-18890	92.52875	88712798
11	ARS-BFGL-NGS-68659	92.54264	88744811
11	ARS-BFGL-NGS-37849	92.61106	88902399
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11	BTA-04022-rs29014389	92.67886	89058589
11	ARS-BFGL-NGS-39719	92.68861	89081028
11	ARS-BFGL-NGS-2387	92.73814	89195128
11	ARS-BFGL-NGS-79604	92.75601	89236308
11	Hapmap42125-BTA-19379	92.77465	89279221
11	ARS-BFGL-NGS-28030	92.80052	89338824
11	Hapmap31724-BTA-126967	92.81489	89371911
11	Hapmap39619-BTA-112418	92.85583	89466244
11	ARS-BFGL-NGS-97969	92.86944	89497577
11	Hapmap48617-BTA-112423	92.90916	89589073
11	Hapmap59373-rs29018501	92.92576	89627301
11	BTA-26109-no-rs	92.93818	89655918
11	ARS-BFGL-NGS-117441	92.94897	89680768
11	ARS-BFGL-NGS-14404	92.98808	89770848
11	ARS-BFGL-NGS-17353	93.03584	89880876
11	ARS-BFGL-NGS-42603	93.05861	89933322
11	ARS-BFGL-NGS-39644	93.07588	89973106
11	Hapmap60356-rs29024194	93.35092	90100118
11	BTA-112448-no-rs	93.36485	90131383
11	ARS-BFGL-NGS-114789	93.38454	90175621
11	ARS-BFGL-NGS-79395	93.40236	90215622
11	BTA-112435-no-rs	93.4314	90280832
11	ARS-BFGL-NGS-61730	93.46899	90365254
11	ARS-BFGL-NGS-27587	93.47949	90388849
11	ARS-BFGL-NGS-92082	93.63503	90738123
11	ARS-BFGL-NGS-102272	93.69661	90876399
11	ARS-BFGL-NGS-30661	93.71233	90911719
11	ARS-BFGL-NGS-30162	93.78222	91068648
11	Hapmap57682-rs29016418	93.79975	91108018
11	Hapmap54254-rs29018336	93.82852	91172628
11	ARS-BFGL-NGS-34117	93.84308	91205321
11	ARS-BFGL-BAC-14322	93.86241	91248735

11	BTA-118584-no-rs	93.95626	91459488	
11	BTA-118582-no-rs	93.97479	91501099	
11	ARS-BFGL-NGS-118290	93.98552	91525186	
11	BTA-118578-no-rs	93.99503	91546547	
11	ARS-BFGL-NGS-44412	94.00941	91578841	
11	Hapmap40888-BTA-113548	94.05449	91680069	
11	Hapmap54612-rs29020979	94.06512	91703925	
11	ARS-BFGL-NGS-14308	94.13503	91790033	
11	BTA-109943-no-rs	94.26279	91875823	
11	Hapmap30052-BTA-161211	94.39063	91961667	
11	ARS-BFGL-NGS-113523	94.43394	91995272	
11	Hapmap40702-BTA-25501	94.45871	92019964	
11	BTA-17666-no-rs	94.49814	92059274	
11	Hapmap26463-BTA-159947	94.52496	92086008	
11	ARS-BFGL-NGS-3634	94.56912	92130041	
11	ARS-BFGL-NGS-114332	94.59502	92155851	
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11	BTA-21473-no-rs	94.6851	92245650	
11	Hapmap35103-BES3_Contig455_1055	94.73701	92297411	
11	ARS-BFGL-NGS-39150	94.94093	92500678	
11	ARS-BFGL-NGS-104266	94.99873	92558313	
11	ARS-BFGL-NGS-38395	95.03506	92594518	
11	ARS-BFGL-NGS-20015	95.13303	92692190	
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11	ARS-BFGL-NGS-32722	95.22655	92785424	
11	ARS-BFGL-NGS-76359	95.32	92912897	
11	ARS-BFGL-NGS-11629	95.32	92963716	
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11	Hapmap45793-BTA-114539	95.32732	93027457	
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11	ARS-BFGL-NGS-25612	95.36926	93193697	
11	ARS-BFGL-NGS-101954	95.37613	93220907	
11	ARS-BFGL-NGS-42578	95.38137	93241685	
11	Hapmap51151-BTA-114546	95.39254	93285949	
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11	BTA-114544-no-rs	95.46873	93587894	
11	ARS-BFGL-NGS-1846	95.4749	93612322	
11	ARS-BFGL-NGS-103958	95.48083	93635833	
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11	ARS-BFGL-NGS-25824	95.56076	93773270	
11	Hapmap38572-BTA-115523	95.85555	94071468	
11	BTA-115525-no-rs	95.8852	94101466	
11	Hapmap46766-BTA-115526	96.12	94446742	
11	ARS-BFGL-NGS-5247	96.15386	94494230	
11	ARS-BFGL-NGS-116626	96.27258	94558900	
11	ARS-BFGL-NGS-97869	96.30932	94578906	
11	Hapmap53129-rs29022984	96.4226	94640611	
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11	BTA-04956-no-rs	96.55578	94713144	
11	Hapmap43475-BTA-115549	96.66502	94772650	
11	Hapmap41435-BTA-115556	97.1302	95026013	
11	Hapmap57855-rs29019732	97.35873	95150490	
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11	ARS-BFGL-NGS-40157	97.94292	95468672	
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11	BTA-113574-no-rs	98.19615	95606602
11	Hapmap45640-BTA-113575	98.25269	95637394
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11	Hapmap24798-BTA-127049	98.72421	95837993
11	Hapmap40206-BTA-120879	99.08529	95985648
11	ARS-BFGL-NGS-72642	99.17982	96024302
11	Hapmap47514-BTA-115564	99.3025	96074475
11	ARS-BFGL-NGS-101698	99.68314	96230130
11	ARS-BFGL-NGS-111672	99.80727	96280890
11	ARS-BFGL-NGS-43490	99.89606	96317198
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11	Hapmap60189-rs29017117	100.2206	96449907
11	ARS-BFGL-NGS-50500	100.2804	96474351
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11	Hapmap51470-BTA-57893	100.5989	96604598
11	Hapmap51471-BTA-57896	100.6937	96695596
11	ARS-BFGL-NGS-38587	100.7249	96777054
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11	ARS-BFGL-NGS-36373	100.8458	97092757
11	ARS-BFGL-NGS-117250	100.8717	97160473
11	ARS-BFGL-NGS-62241	100.8867	97199421
11	ARS-BFGL-NGS-98451	100.896	97223810
11	ARS-BFGL-NGS-58004	100.9072	97252894
11	ARS-BFGL-NGS-35656	100.9213	97289960
11	ARS-BFGL-NGS-118218	100.9593	97389037
11	ARS-BFGL-NGS-116912	100.9948	97481834
11	UA-IFASA-7427	101.0402	97600391
11	ARS-BFGL-NGS-101484	101.0552	97639442
11	BTA-114584-no-rs	101.0657	97666905
11	UA-IFASA-2295	101.1259	97754180
11	Hapmap38812-BTA-114580	101.1791	97789423
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11	ARS-BFGL-NGS-109485	101.3228	97884816
11	ARS-BFGL-NGS-5179	101.358	97908171
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11	ARS-BFGL-NGS-26030	101.499	98001705
11	ARS-BFGL-NGS-114759	101.536	98026258
11	ARS-BFGL-BAC-15609	101.7448	98164828
11	ARS-BFGL-NGS-107846	101.7773	98186362
11	ARS-BFGL-NGS-38003	101.8278	98219856
11	ARS-BFGL-NGS-32610	101.8807	98254996
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11	ARS-BFGL-BAC-15613	102.0801	98387272
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11	ARS-BFGL-NGS-42261	102.15	98605015
11	ARS-BFGL-NGS-113310	102.15	98645533
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11	ARS-BFGL-NGS-115208	102.15	98770719
11	ARS-BFGL-NGS-1504	102.15	98871090
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11	BTA-116652-no-rs	102.6314	99497380	
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11	BTA-120885-no-rs	102.9263	99774304	
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11	ARS-BFGL-NGS-32646	103.0082	99851239	
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11	Hapmap36489-SCAFFOLD286220_4730		103.5667	100545442
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11	ARS-BFGL-NGS-62514	103.96	100788847	
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11	Hapmap51810-BTA-119667	104.8766	102861577	
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11	ARS-BFGL-NGS-119318	104.9458	102974570	
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11	ARS-BFGL-NGS-12348	105.3019	103555170	
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11	ARS-BFGL-NGS-29433	105.59	104043185	
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11	ARS-BFGL-NGS-37206	105.64	104142103	
11	ARS-BFGL-NGS-24965	105.64	104182498	
11	ARS-BFGL-NGS-25912	105.64	104217085	
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11	ARS-BFGL-NGS-104610	105.64	104293559	
11	ARS-BFGL-NGS-4101	105.645	104325453	
11	ARS-BFGL-NGS-6104	105.7695	104456040	
11	ARS-BFGL-NGS-30157	105.8052	104493462	
11	ARS-BFGL-NGS-23749	105.8589	104549765	
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11	ARS-BFGL-NGS-111682	105.9385	104633267	
11	ARS-BFGL-NGS-110532	105.9586	104654421	
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11	ARS-BFGL-NGS-35143	106.0381	104737799	

11	ARS-BFGL-NGS-61192	106.0687	104769832
11	ARS-BFGL-NGS-100020	106.0887	104790820
11	ARS-BFGL-NGS-117078	106.1091	104812200
11	ARS-BFGL-NGS-100667	106.1243	104828174
11	ARS-BFGL-NGS-81167	106.1516	104856815
11	Hapmap52927-rs29019310	106.1899	104897001
11	ARS-BFGL-NGS-82968	106.4613	105182939
11	ARS-BFGL-NGS-34624	106.5276	105320490
11	BTA-69403-no-rs	106.5522	105371400
11	ARS-BFGL-NGS-17264	106.5618	105391422
11	ARS-BFGL-NGS-42024	106.5776	105424080
11	ARS-BFGL-NGS-37958	106.603	105476802
11	Hapmap32029-BTA-127208	106.6301	105532933
11	ARS-BFGL-NGS-4974	106.6418	105557304
11	ARS-BFGL-NGS-108104	106.6593	105593624
11	ARS-BFGL-NGS-31810	106.6774	105631144
11	ARS-BFGL-NGS-64275	106.7105	105699664
11	ARS-BFGL-NGS-41802	106.7486	105778702
11	ARS-BFGL-NGS-23601	106.7576	105797400
11	ARS-BFGL-NGS-22584	106.7807	105845271
11	Hapmap42853-BTA-15475	106.8645	106019172
11	ARS-BFGL-NGS-104641	106.8773	106045559
11	ARS-BFGL-NGS-45339	106.8877	106067128
11	Hapmap40628-BTA-101897	106.9008	106094470
11	ARS-BFGL-NGS-117711	106.9078	106108993
11	ARS-BFGL-NGS-114194	106.9738	106245832
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11	ARS-BFGL-NGS-13735	107.0236	106348964
11	ARS-BFGL-NGS-21943	107.064	106432832
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11	ARS-BFGL-NGS-25833	107.1172	106543262
11	ARS-BFGL-NGS-65835	107.1351	106580280
11	ARS-BFGL-NGS-118288	107.35	106613461
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11	ARS-BFGL-NGS-79458	107.35	106682471
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11	ARS-BFGL-NGS-11867	107.35	106741315
11	ARS-BFGL-NGS-106343	107.35	106804258
11	ARS-BFGL-NGS-83651	107.35	107016872
11	ARS-BFGL-NGS-10238	107.3636	107043330
11	ARS-BFGL-NGS-32260	107.3986	107096304
11	ARS-BFGL-NGS-25386	107.4366	107153765
11	Hapmap52103-rs29026528	107.4579	107185955
11	ARS-BFGL-NGS-108538	107.4706	107205272
11	Hapmap53560-ss46526467	107.4979	107246475
12	BTB-01434048	0	147119
12	BTB-01617578	0	238670
12	BTB-01617606	0	262306
12	BTB-01248671	0.03442812	565825
12	BTB-01248764	0.1269665	589210
12	BTB-01248923	0.2582574	622388
12	BTB-01603641	0.3948113	656896
12	BTB-01858316	0.4912079	681256
12	ARS-BFGL-NGS-64891	0.7352623	742930
12	BTB-01249160	0.9126462	787756
12	BTB-01249318	1.048235	822020
12	ARS-BFGL-NGS-15655	1.20032	860453
12	BTB-01876724	1.545417	947661



12	ARS-BFGL-NGS-104392	1.813632	1231602
12	ARS-BFGL-NGS-109016	2.290149	1334824
12	Hapmap29441-BTA-160222	2.397264	1358027
12	BTB-01365357	2.75765	1436093
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12	ARS-BFGL-NGS-95815	3.12587	1515856
12	BTB-01981334	3.268817	1546821
12	BTB-01682876	3.376915	1570237
12	BTB-01682750	3.520394	1601317
12	BTB-01678450	4.126405	1681182
12	ARS-BFGL-NGS-6218	4.203372	1725598
12	Hapmap49005-BTA-105637	4.539993	1919853
12	ARS-BFGL-NGS-104447	4.620008	1966027
12	ARS-BFGL-NGS-74419	4.705212	2015196
12	Hapmap38028-BTA-122265	4.76	2058297
12	ARS-BFGL-BAC-12460	4.76	2095868
12	ARS-BFGL-NGS-30815	4.76	2155286
12	ARS-BFGL-NGS-112364	4.76	2209666
12	Hapmap43221-BTA-27481	4.76	2249044
12	BTB-01102914	4.798459	2273370
12	Hapmap40318-BTA-122815	4.860956	2300645
12	Hapmap27791-BTA-163288	4.913839	2323724
12	BTB-01103037	4.975638	2350694
12	ARS-BFGL-NGS-55191	5.061022	2387957
12	ARS-BFGL-NGS-100743	5.227835	2460757
12	BTA-27496-no-rs	5.319671	2500836
12	BTB-01103269	5.477174	2569573
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12	BTA-27507-no-rs	5.588228	2618039
12	ARS-BFGL-NGS-1415	5.647452	2643370
12	Hapmap49942-BTA-27508	5.753681	2682385
12	ARS-BFGL-NGS-109550	5.828587	2709896
12	ARS-BFGL-NGS-45741	5.982804	2766536
12	BTB-01841018	6.114271	2814820
12	BTB-01841032	6.172404	2836171
12	Hapmap47883-BTA-18776	6.230979	2857684
12	ARS-BFGL-NGS-112832	6.372122	2909522
12	ARS-BFGL-NGS-25986	6.465807	2943930
12	ARS-BFGL-NGS-102307	6.533781	2968895
12	ARS-BFGL-BAC-15634	6.59555	2991581
12	BTA-93575-no-rs	6.74204	3045383
12	Hapmap51092-BTA-93283	7.099452	3172154
12	BTB-01443134	7.248796	3204202
12	ARS-BFGL-NGS-32075	7.598624	3279272
12	BTB-02105311	8.164127	3400624
12	ARS-BFGL-NGS-75777	8.348758	3440244
12	Hapmap39360-BTA-89515	8.455023	3471118
12	BTB-01571373	8.892165	3568636
12	BTB-01113265	9.121942	3597674
12	Hapmap59922-rs29009691	9.453754	3656977
12	Hapmap49354-BTA-87231	9.724272	3705325
12	BTB-01113508	9.842582	3726470
12	Hapmap48928-BTA-87236	9.973404	3749851
12	BTB-01113677	10.13929	3779499
12	BTB-01113692	10.32249	3812242
12	ARS-BFGL-BAC-12452	10.53074	3849460
12	BTB-01114017	10.76483	3891298
12	ARS-BFGL-NGS-10478	11.37359	4000099
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12	BTB-01114242	11.81824	4079569
12	Hapmap45584-BTA-87243	12.19834	4147501
12	ARS-BFGL-NGS-111859	12.55532	4211302
12	BTA-87244-no-rs	12.71008	4238962
12	BTB-01912635	13.15365	4324502
12	BTA-15664-no-rs	13.26742	4397035
12	BTB-01781996	13.31806	4429317
12	BTB-01713600	13.40515	4484840
12	BTB-00485323	13.60819	4614286
12	ARS-BFGL-NGS-114666	13.6698	4653564
12	BTB-00485379	13.71992	4685516
12	BTA-19632-no-rs	13.77075	4717924
12	BTB-00485445	13.77172	4718544
12	BTB-01972887	13.81635	4746992
12	BTB-01435273	13.8792	4787061
12	ARS-BFGL-NGS-92375	13.93958	4825559
12	BTB-00485448	14.13736	4889853
12	BTB-02013697	14.50297	4995556
12	BTB-00485995	14.59745	5026820
12	BTB-00485860	14.64503	5047421
12	ARS-BFGL-NGS-65811	14.76936	5101246
12	ARS-BFGL-BAC-15668	14.86477	5142554
12	ARS-BFGL-BAC-15659	15.15124	5380015
12	Hapmap51386-BTA-108642	16.29132	5817779
12	ARS-BFGL-NGS-116104	16.35	5924378
12	BTA-19336-no-rs	16.35	5954062
12	BTA-116819-no-rs	16.35	5976132
12	Hapmap47846-BTA-116805	16.65619	6195101
12	ARS-BFGL-NGS-60899	17.28783	6381592
12	Hapmap50851-BTA-104846	17.43907	6426246
12	Hapmap51647-BTA-87484	17.88317	6557369
12	ARS-BFGL-NGS-7644	17.96482	6581473
12	Hapmap25512-BTA-127269	18.3711	6701430
12	Hapmap50610-BTA-18534	18.58183	6763647
12	BTA-17590-no-rs	18.74877	6812936
12	ARS-BFGL-NGS-42639	18.95392	6873509
12	Hapmap59122-rs29023094	19.0742	6909020
12	ARS-BFGL-NGS-23454	19.2482	6960393
12	BTA-17518-no-rs	19.43768	7020056
12	ARS-BFGL-BAC-16298	19.57009	7062725
12	Hapmap39726-BTA-16621	19.64519	7086925
12	BTA-114126-no-rs	20.82033	7465610
12	BTA-112946-no-rs	21.42646	7660934
12	BTA-18975-no-rs	21.64084	7730018
12	BTA-28903-no-rs	21.75422	7766553
12	Hapmap23093-BTA-156802	22.29496	7940808
12	Hapmap39308-BTA-113771	22.69942	8102057
12	Hapmap49027-BTA-113781	22.82917	8201659
12	ARS-BFGL-BAC-15052	23.21623	8498778
12	Hapmap31862-BTA-26957	23.34996	8601430
12	Hapmap54153-rs29021206	23.4704	8693887
12	ARS-BFGL-NGS-29775	23.53402	8742724
12	Hapmap44034-BTA-21712	23.59003	8785719
12	ARS-BFGL-BAC-7349	23.65948	8839027
12	BTA-97532-no-rs	23.79676	8944407
12	BTB-01965368	23.94052	9079069
12	BTB-00486335	23.96864	9165632
12	BTB-00486354	23.97203	9176065
12	BTB-00109942	24.00378	9273807

12	BTB-00109935	24.00693	9283496		
12	ARS-BFGL-NGS-112778	24.02868	9350435		
12	Hapmap48117-BTA-90454	24.0939	9515754		
12	ARS-BFGL-NGS-51579	24.11808	9574292		
12	BTB-01412073	24.1352	9615717		
12	ARS-BFGL-NGS-114401	24.18195	9728887		
12	BTA-53873-no-rs	24.19251	9754433		
12	ARS-BFGL-NGS-25155	24.21265	9803194		
12	BTB-01665706	24.2327	9851720		
12	Hapmap54013-rs29018744	24.25086	9895680		
12	ARS-BFGL-NGS-5267	24.26326	9925695		
12	BTB-01099458	24.31638	10054259		
12	BTA-23884-no-rs	24.3272	10080455		
12	ARS-BFGL-NGS-110434	24.53587	10147401		
12	ARS-BFGL-NGS-60282	24.71122	10185506		
12	Hapmap59058-rs29016195	24.83868	10224679		
12	BTB-01099783	24.84793	10247689		
12	BTB-01099836	24.88234	10297281		
12	ARS-BFGL-NGS-111922	24.90064	10322436		
12	ARS-BFGL-NGS-112946	24.91552	10342887		
12	Hapmap49909-BTA-20579	24.93595	10370963		
12	ARS-BFGL-NGS-91903	24.95524	10397472		
12	BTA-23892-no-rs	24.97452	10423968		
12	ARS-BFGL-NGS-101603	24.99625	10453840		
12	ARS-BFGL-NGS-111318	25.07854	10566940		
12	BTB-01512270	25.11068	10611104		
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12	ARS-BFGL-NGS-42607	25.16891	10691145		
12	ARS-BFGL-NGS-101700	25.18966	10719656		
12	ARS-BFGL-NGS-113996	25.21651	10756564		
12	BTB-01100174	25.25432	10808520		
12	Hapmap35046-BES11_Contig381_736	25.2916	10859759		
12	ARS-BFGL-NGS-21526	25.30659	10880359		
12	Hapmap48641-BTA-119400	25.39081	10996119		
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12	ARS-BFGL-NGS-87459	25.55544	11222385		
12	ARS-BFGL-NGS-71187	25.65107	11353817		
12	BTB-00486553	25.6954	11414743		
12	BTB-00487004	25.71666	11443955		
12	Hapmap43230-BTA-31437	25.75816	11500999		
12	ARS-BFGL-NGS-119608	25.79768	11555315		
12	ARS-BFGL-NGS-55319	26.07898	11653787		
12	ARS-BFGL-NGS-107216	26.16413	11676079		
12	Hapmap36756-SCAFFOLD322140_14795	26.27323	11731902		
12	BTA-31543-no-rs	26.30636	11752906		
12	ARS-BFGL-NGS-3055	26.34537	11777636		
12	ARS-USMARC-Parent-DQ786763-rs29020472	26.55129	11824653		
12	UA-IFASA-4065	26.55266	11824890		
12	BTA-120902-no-rs	27.03637	11908665		
12	UA-IFASA-3296	27.18392	11934219		
12	BTA-31552-no-rs	27.30707	11955547		
12	BTA-31554-no-rs	27.49296	11987741		
12	Hapmap53580-rs29012667	27.56826	12041734		
12	ARS-BFGL-NGS-78831	27.68159	12141029		
12	Hapmap28312-BTA-150632	27.81325	12256375		
12	ARS-BFGL-NGS-102031	27.85688	12294597		
12	Hapmap58728-rs29027441	28.01568	12375872		
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12	BTA-29127-no-rs	28.33419	12480546
12	ARS-BFGL-NGS-54167	28.43523	12513750
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12	ARS-BFGL-NGS-27102	28.89454	12664697
12	ARS-BFGL-NGS-50752	28.95752	12685397
12	Hapmap27382-BTA-127292	29.15487	12750252
12	ARS-BFGL-NGS-2282	29.24522	12779945
12	ARS-BFGL-NGS-33442	29.32178	12805107
12	BTA-27284-no-rs	29.44335	12845057
12	ARS-BFGL-NGS-21177	29.8473	12977211
12	Hapmap50654-BTA-31559	30.51154	13140896
12	Hapmap49116-BTA-31557	30.66899	13179696
12	UA-IFASA-8584	30.76818	13204137
12	ARS-BFGL-NGS-113420	30.94173	13273888
12	ARS-BFGL-NGS-72076	30.96673	13301311
12	Hapmap49502-BTA-15784	30.98957	13326361
12	ARS-BFGL-NGS-18132	31.01409	13353262
12	BTA-103393-no-rs	31.03301	13374015
12	BTA-103391-no-rs	31.05676	13400067
12	ARS-BFGL-NGS-113622	31.13133	13481865
12	Hapmap41738-BTA-105872	31.16	13515819
12	ARS-BFGL-NGS-31202	31.16	13559248
12	Hapmap41136-BTA-105871	31.16	13604904
12	ARS-BFGL-BAC-11792	31.16	13671044
12	BTA-98929-no-rs	31.16	13698622
12	Hapmap35040-BES10_Contig531_1099	31.16	13724378
12	ARS-BFGL-NGS-118438	31.19128	13752664
12	ARS-BFGL-NGS-87452	31.23666	13793421
12	ARS-BFGL-NGS-2749	31.28187	13834028
12	ARS-BFGL-BAC-11798	31.30707	13856656
12	ARS-BFGL-BAC-11801	31.3588	13903112
12	BTA-96362-no-rs	31.42496	13962534
12	ARS-BFGL-NGS-108492	31.44784	13983082
12	BTB-01296488	31.52105	14048839
12	ARS-BFGL-NGS-35078	31.54938	14074284
12	Hapmap49074-BTA-19146	31.57792	14099914
12	BTB-01475864	31.60771	14126668
12	BTB-01296573	31.63478	14150980
12	BTB-01296818	31.78222	14227828
12	ARS-BFGL-NGS-78861	31.83414	14252635
12	BTB-01477690	32.05666	14358955
12	BTB-01477715	32.15804	14407393
12	ARS-BFGL-NGS-74429	32.41875	14531962
12	BTA-49471-no-rs	32.50704	14574147
12	BTB-00114227	32.5672	14602889
12	Hapmap59827-rs29026804	32.67423	14654029
12	ARS-BFGL-NGS-117841	32.82129	14724296
12	Hapmap49118-BTA-31696	32.95899	14882746
12	ARS-BFGL-BAC-11805	32.98486	14944031
12	ARS-BFGL-NGS-18629	33.02985	15050628
12	ARS-BFGL-NGS-102105	33.05227	15103754
12	ARS-BFGL-NGS-18648	33.06099	15124411
12	Hapmap48197-BTA-117083	33.07367	15154465
12	BTA-31588-no-rs	33.11477	15251837
12	ARS-BFGL-NGS-16501	33.12437	15274582
12	BTA-31578-no-rs	33.14582	15325401
12	BTA-31575-no-rs	33.15591	15349303

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12	BTA-31571-no-rs	33.19017	15430493	
12	Hapmap39990-BTA-31570	33.19486	15441597	
12	Hapmap36290-SCAFFOLD191599_16698	33.2038		15462779
12	ARS-BFGL-NGS-42200	33.28634	15573724	
12	ARS-BFGL-NGS-17193	33.34491	15624531	
12	ARS-BFGL-NGS-108793	33.41815	15688064	
12	ARS-BFGL-NGS-102369	33.46255	15726574	
12	ARS-BFGL-NGS-115892	33.52264	15778700	
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12	ARS-BFGL-NGS-105816	33.62246	15865286	
12	BTA-31719-no-rs	33.70605	15937798	
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12	ARS-BFGL-NGS-55674	33.85826	16069827	
12	ARS-BFGL-BAC-11821	33.89175	16098884	
12	Hapmap58297-rs29023722	33.97056	16167243	
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12	Hapmap54287-ss46526670	34.1115	16255818	
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12	BTA-31715-no-rs	34.28917	16326231	
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12	Hapmap38104-BTA-31727	34.70668	16491701	
12	BTB-00487464	34.77423	16518473	
12	ARS-BFGL-NGS-43671	34.84596	16546902	
12	ARS-BFGL-NGS-118239	34.94662	16586796	
12	Hapmap46977-BTA-31741	34.98013	16606941	
12	ARS-BFGL-NGS-28136	35.03618	16641931	
12	ARS-BFGL-NGS-114512	35.12811	16699315	
12	BTA-31743-no-rs	35.18177	16732810	
12	Hapmap40412-BTA-31752	35.30945	16886483	
12	ARS-BFGL-NGS-77196	35.32	16920462	
12	ARS-BFGL-NGS-100320	35.32	17004927	
12	BTA-31754-no-rs	35.32	17035782	
12	ARS-BFGL-NGS-114222	35.32	17121591	
12	ARS-BFGL-NGS-113826	35.32	17150394	
12	BTB-00488399	35.32	17193622	
12	ARS-BFGL-BAC-12434	35.32	17238290	
12	ARS-BFGL-NGS-99674	35.32	17265269	
12	ARS-BFGL-BAC-12432	35.32	17454675	
12	Hapmap39741-BTA-31768	35.32	17514165	
12	BTB-00488482	35.32007	17546998	
12	BTA-111971-no-rs	35.37654	17628784	
12	ARS-BFGL-NGS-75964	35.41173	17679745	
12	BTB-01538178	35.42804	17703371	
12	Hapmap61148-rs29015935	35.44207	17723687	
12	ARS-BFGL-NGS-73906	35.48865	17791146	
12	ARS-BFGL-BAC-12431	35.60157	17954678	
12	ARS-BFGL-NGS-112294	35.63389	18001484	
12	ARS-BFGL-NGS-29349	35.65605	18033575	
12	ARS-BFGL-NGS-87433	35.68588	18076789	
12	ARS-BFGL-NGS-108858	35.70659	18106772	
12	ARS-BFGL-NGS-9353	35.7241	18132138	
12	BTA-21705-no-rs	35.76795	18195634	
12	BTA-16623-no-rs	35.82555	18279051	
12	ARS-BFGL-NGS-25860	35.95906	18472407	
12	BTA-31795-no-rs	35.99676	18527013	
12	ARS-BFGL-NGS-5229	36.03674	18584913	

12	BTA-31798-no-rs	36.11703	18701196
12	ARS-BFGL-NGS-10833	36.15615	18757843
12	BTA-31807-no-rs	36.18864	18804912
12	BTA-102802-no-rs	36.28432	18950029
12	ARS-BFGL-NGS-14499	36.32034	19006540
12	Hapmap60173-rs29026795	36.35664	19063506
12	BTA-20927-no-rs	36.3905	19116631
12	ARS-BFGL-NGS-62217	36.4243	19169661
12	ARS-BFGL-NGS-26839	36.43831	19191656
12	ARS-BFGL-NGS-110057	36.47213	19244706
12	BTA-20919-no-rs	36.53063	19336501
12	Hapmap49780-BTA-86092	36.57531	19406605
12	Hapmap50932-BTA-31770	36.59682	19433104
12	Hapmap47565-BTA-31771	36.65578	19462885
12	ARS-BFGL-NGS-119610	37.07804	19676138
12	ARS-BFGL-NGS-43672	37.25892	19767492
12	ARS-BFGL-NGS-101050	37.45951	19868800
12	BTA-98575-no-rs	37.52166	19900184
12	BTA-31783-no-rs	37.68415	19982250
12	Hapmap39312-BTA-120905	37.87595	20079121
12	ARS-BFGL-NGS-21160	37.97649	20129895
12	ARS-BFGL-NGS-104500	38.09103	20180276
12	Hapmap30016-BTA-149504	38.3173	20261439
12	ARS-BFGL-NGS-119219	38.79869	20434115
12	ARS-BFGL-NGS-80012	39.01044	20510073
12	BTA-88360-no-rs	39.19659	20610785
12	ARS-BFGL-NGS-107895	39.2421	20720170
12	ARS-BFGL-NGS-113825	39.27563	20800774
12	ARS-BFGL-NGS-110628	39.30301	20866586
12	ARS-BFGL-NGS-112374	39.38904	21073393
12	ARS-BFGL-NGS-13000	39.40156	21103484
12	ARS-BFGL-NGS-115282	39.42398	21157380
12	ARS-BFGL-NGS-62496	39.47498	21279986
12	ARS-BFGL-NGS-11531	39.48969	21315343
12	ARS-BFGL-NGS-118769	39.50523	21352699
12	ARS-BFGL-NGS-64344	41.48124	21711870
12	ARS-BFGL-NGS-33369	41.57256	21816198
12	ARS-BFGL-NGS-63117	41.72306	21988137
12	ARS-BFGL-NGS-2945	41.78571	22059710
12	ARS-BFGL-NGS-34964	41.875	22161726
12	BTA-31817-no-rs	41.92546	22219373
12	ARS-BFGL-NGS-57040	41.95256	22250330
12	BTA-31818-no-rs	41.99743	22301586
12	ARS-BFGL-NGS-64184	42.05981	22372861
12	ARS-BFGL-NGS-10048	42.07769	22393281
12	BTA-120906-no-rs	42.12878	22451649
12	Hapmap43554-BTA-31822	42.15457	22481119
12	Hapmap52315-rs29014466	42.31487	22664255
12	Hapmap42862-BTA-17548	42.35059	22705057
12	ARS-BFGL-NGS-23769	42.42776	22793228
12	Hapmap51176-BTA-17547	42.48957	22863845
12	ARS-BFGL-BAC-12458	42.50895	22885975
12	Hapmap38390-BTA-17559	42.59078	22979469
12	ARS-BFGL-NGS-38475	42.6497	23046778
12	Hapmap48927-BTA-86815	42.66908	23068924
12	Hapmap56571-rs29020869	42.68756	23090031
12	ARS-BFGL-NGS-110281	42.72448	23132213
12	BTA-86812-no-rs	42.76123	23174195
12	ARS-BFGL-NGS-101837	42.86001	23282855

12	ARS-BFGL-NGS-64211	42.91131	23319980	
12	Hapmap48235-BTA-17587	42.93954	23340411	
12	ARS-BFGL-NGS-51613	43.09224	23450916	
12	Hapmap22997-BTA-127428	43.12355	23473573	
12	Hapmap40891-BTA-115072	43.26669	23577169	
12	Hapmap41756-BTA-115061	43.47173	23725552	
12	BTA-115056-no-rs	43.50695	23751037	
12	BTA-115055-no-rs	43.54003	23774978	
12	Hapmap27450-BTA-157196	43.56922	23796102	
12	Hapmap58664-rs29014508	43.67805	23874869	
12	ARS-BFGL-NGS-42141	43.79664	23960686	
12	ARS-BFGL-NGS-59877	43.84782	23991213	
12	Hapmap44518-BTA-115053	43.94608	24026387	
12	Hapmap47789-BTA-96396	45.47784	24585150	
12	ARS-BFGL-BAC-5675	45.51416	24619280	
12	ARS-BFGL-NGS-61869	45.56703	24668970	
12	ARS-BFGL-BAC-12462	45.73298	24824923	
12	BTA-117635-no-rs	45.90223	24983974	
12	Hapmap47518-BTA-117641	46.08173	25066554	
12	ARS-BFGL-NGS-13041	46.19066	25114300	
12	BTA-117645-no-rs	46.42422	25216679	
12	ARS-BFGL-NGS-21636	46.51264	25255436	
12	ARS-BFGL-NGS-12145	46.78339	25374111	
12	ARS-BFGL-NGS-103078	46.87149	25412732	
12	ARS-BFGL-NGS-63371	47.05465	25493014	
12	Hapmap58115-rs29014561	47.18932	25552044	
12	ARS-BFGL-NGS-113220	47.30992	25604908	
12	ARS-BFGL-NGS-10862	47.63362	25746796	
12	ARS-BFGL-NGS-58970	47.6993	25775588	
12	Hapmap42159-BTA-26305	47.9071	25857983	
12	ARS-BFGL-BAC-12454	48.23652	25986217	
12	Hapmap35355-BES8_Contig494_1036		48.77881	26358215
12	Hapmap50550-BTA-103658	48.86974	26491935	
12	Hapmap51425-BTA-24269	48.91516	26558724	
12	BTA-120908-no-rs	48.94838	26607578	
12	ARS-BFGL-NGS-13966	49.06121	26773494	
12	Hapmap35732-SCAFFOLD39485_2498		49.08127	26802996
12	Hapmap38391-BTA-18545	49.08641	26810556	
12	Hapmap51180-BTA-18566	49.13581	26883203	
12	Hapmap38392-BTA-18567	49.19292	26967177	
12	BTA-18569-no-rs	49.21979	27006686	
12	BTA-06955-no-rs	49.25512	27058646	
12	Hapmap53304-rs29024387	49.26889	27078899	
12	Hapmap41772-BTA-120909	49.30606	27133552	
12	Hapmap54741-rs29013272	49.37262	27231432	
12	Hapmap41790-BTA-18584	49.40303	27276153	
12	ARS-BFGL-NGS-38634	49.42667	27310922	
12	ARS-BFGL-NGS-30977	49.50218	27421957	
12	ARS-BFGL-NGS-37858	49.53088	27464162	
12	ARS-BFGL-BAC-12468	50.66	27577957	
12	ARS-BFGL-NGS-35408	50.66	27596778	
12	BTA-19588-no-rs	50.66	27684536	
12	ARS-BFGL-NGS-34818	50.66	27744034	
12	ARS-BFGL-NGS-45371	50.66	27807391	
12	Hapmap53428-rs29019634	50.66	27915672	
12	Hapmap53957-rs29016480	50.66	27954424	
12	ARS-BFGL-NGS-19196	50.67661	28022872	
12	Hapmap58420-rs29021098	50.70612	28052265	
12	ARS-BFGL-NGS-22794	50.78135	28127197	

12	BTA-120860-no-rs	50.85971	28205239
12	ARS-BFGL-NGS-30519	50.89035	28235757
12	Hapmap25509-BTA-126632	50.93069	28275938
12	ARS-BFGL-NGS-32430	51.14288	28487284
12	Hapmap48673-BTA-17057	51.17343	28517710
12	ARS-BFGL-NGS-83462	51.26326	28607186
12	Hapmap50534-BTA-99620	51.30379	28647560
12	ARS-BFGL-NGS-116500	51.44033	28783549
12	Hapmap49075-BTA-19590	51.48507	28828116
12	BTA-19592-no-rs	51.51174	28854679
12	ARS-BFGL-NGS-79502	51.56839	28911099
12	ARS-BFGL-BAC-15012	51.6	28942584
12	BTA-19593-no-rs	51.63225	28974708
12	ARS-BFGL-NGS-40668	51.6891	29031334
12	ARS-BFGL-NGS-10225	51.77	29120186
12	ARS-BFGL-NGS-28116	51.77	29148530
12	Hapmap38930-BTA-100956	51.77	29170799
12	BTA-100959-no-rs	51.77	29191067
12	ARS-BFGL-NGS-76809	51.77	29238096
12	ARS-BFGL-NGS-94762	51.89774	29324327
12	ARS-BFGL-NGS-42277	51.96904	29372191
12	ARS-BFGL-NGS-60085	52.04353	29422204
12	ARS-BFGL-NGS-15110	52.18972	29520358
12	BTA-83050-no-rs	52.25302	29562851
12	ARS-BFGL-BAC-15016	52.38152	29649126
12	ARS-BFGL-NGS-26012	52.42981	29681550
12	ARS-BFGL-NGS-116800	52.5741	29778424
12	ARS-BFGL-NGS-97770	52.60716	29800618
12	ARS-BFGL-NGS-57685	52.65354	29831757
12	ARS-BFGL-NGS-117100	52.70553	29866661
12	Hapmap50169-BTA-95809	52.81188	29938065
12	ARS-BFGL-NGS-4838	53.05189	30099199
12	ARS-BFGL-NGS-34779	53.12264	30146703
12	ARS-BFGL-NGS-30513	53.1529	30167017
12	Hapmap48153-BTA-101745	53.31186	30273741
12	ARS-BFGL-BAC-15018	53.43275	30362194
12	ARS-BFGL-NGS-41358	53.45615	30389680
12	ARS-BFGL-NGS-83612	53.51171	30454955
12	ARS-BFGL-NGS-113141	53.53596	30483444
12	ARS-BFGL-NGS-116664	53.64291	30609095
12	ARS-BFGL-BAC-15026	53.69342	30668435
12	Hapmap49459-BTA-114816	53.74155	30724975
12	BTA-18613-no-rs	53.76418	30751569
12	ARS-BFGL-NGS-116956	53.7864	30777675
12	ARS-BFGL-NGS-33574	53.81306	30808992
12	ARS-BFGL-NGS-23306	53.9186	30932983
12	ARS-BFGL-NGS-34181	53.94787	30967371
12	ARS-BFGL-NGS-57156	53.96948	30992759
12	ARS-BFGL-NGS-1153	54.00471	31034150
12	ARS-BFGL-NGS-73460	54.0537	31087128
12	ARS-BFGL-NGS-74013	54.1246	31146757
12	ARS-BFGL-NGS-77086	54.27362	31272071
12	Hapmap42054-BTA-108170	54.32567	31315849
12	BTA-108172-no-rs	54.362	31344260
12	ARS-BFGL-BAC-15023	54.39468	31368562
12	ARS-BFGL-NGS-35571	54.46302	31419383
12	ARS-BFGL-NGS-111140	54.48958	31439132
12	BTA-12405-rs29024358	54.64637	31555734
12	Hapmap3430-BTA-18609	54.71924	31609919



12	ARS-BFGL-NGS-56480	54.77814	31639399
12	Hapmap33402-BTA-18602	54.8597	31679957
12	ARS-BFGL-NGS-57294	55.27858	32310451
12	ARS-BFGL-BAC-15632	55.29625	32368787
12	BTA-19643-no-rs	55.30441	32395753
12	ARS-BFGL-BAC-15633	55.33864	32508762
12	ARS-BFGL-NGS-89267	55.38362	32657285
12	ARS-BFGL-NGS-115095	55.42924	32807921
12	Hapmap41201-BTA-20646	55.43926	32840998
12	BTA-20647-no-rs	55.44805	32870031
12	Hapmap42130-BTA-20648	55.4775	32967261
12	BTA-20656-no-rs	55.49051	33010209
12	ARS-BFGL-NGS-5690	55.49875	33037434
12	Hapmap31831-BTA-160692	55.51466	33089969
12	ARS-BFGL-NGS-112091	55.52425	33121622
12	ARS-BFGL-NGS-12	55.54521	33190833
12	ARS-BFGL-NGS-78056	55.57362	33284627
12	ARS-BFGL-NGS-61937	55.58019	33306946
12	ARS-BFGL-NGS-23611	55.58599	33343974
12	Hapmap58463-rs29025439	55.60971	33495549
12	ARS-BFGL-NGS-88871	55.61601	33535830
12	ARS-BFGL-NGS-1426	55.62243	33576827
12	ARS-BFGL-NGS-31294	55.6352	33658486
12	ARS-BFGL-NGS-25442	55.64182	33700719
12	ARS-BFGL-NGS-107176	55.65416	33779590
12	Hapmap38541-BTA-89516	55.68061	33948650
12	ARS-BFGL-NGS-103143	55.69079	34013716
12	ARS-BFGL-NGS-65358	55.72232	34215189
12	ARS-BFGL-NGS-14120	55.72978	34262872
12	ARS-BFGL-NGS-55816	55.74582	34365374
12	ARS-BFGL-NGS-115747	55.75053	34395464
12	ARS-BFGL-NGS-27635	55.7678	34505806
12	ARS-BFGL-NGS-90587	55.77034	34522038
12	ARS-BFGL-NGS-116095	55.77538	34554241
12	Hapmap59336-rs29016911	55.78054	34587250
12	ARS-BFGL-NGS-11300	55.78293	34602487
12	ARS-BFGL-NGS-55763	55.78812	34635671
12	ARS-BFGL-NGS-110443	55.79552	34682985
12	ARS-BFGL-NGS-96494	55.80963	34773131
12	Hapmap38290-BTA-120916	55.82216	34853177
12	Hapmap58345-rs29010310	55.83066	34907499
12	Hapmap39729-BTA-20718	55.839	34960812
12	ARS-BFGL-NGS-115108	55.87913	35217268
12	Hapmap59507-rs29021330	55.88272	35240218
12	ARS-BFGL-NGS-107416	55.89584	35324036
12	ARS-BFGL-NGS-15710	55.90096	35356760
12	ARS-BFGL-NGS-98585	55.9071	35396022
12	ARS-BFGL-NGS-72624	55.91618	35454037
12	ARS-BFGL-NGS-115821	55.92527	35512122
12	ARS-BFGL-NGS-35095	55.93216	35556098
12	Hapmap48195-BTA-116793	55.93612	35581416
12	Hapmap40689-BTA-21639	55.9413	35614532
12	ARS-BFGL-NGS-66770	55.94504	35638450
12	ARS-BFGL-NGS-30197	55.95092	35675997
12	BTA-21634-no-rs	55.95522	35703502
12	Hapmap51188-BTA-21659	55.97332	35819166
12	BTA-21660-no-rs	55.97972	35860041
12	Hapmap47215-BTA-20719	55.9838	35886159
12	ARS-BFGL-NGS-115728	55.99135	35934370

12	BTA-20720-no-rs	55.99892	35982723
12	Hapmap42131-BTA-20723	56.00236	36004714
12	ARS-BFGL-NGS-1817	56.01156	36063522
12	BTA-20724-no-rs	56.02602	36155970
12	ARS-BFGL-NGS-22089	56.04109	36252254
12	ARS-BFGL-NGS-14399	56.05412	36335510
12	ARS-BFGL-NGS-16155	56.06661	36415307
12	ARS-BFGL-NGS-55787	56.076	36475306
12	BTA-21644-no-rs	56.08374	36524758
12	BTA-21641-no-rs	56.09543	36599482
12	ARS-BFGL-NGS-27554	56.10681	36672231
12	Hapmap51939-BTA-21630	56.11256	36708993
12	ARS-BFGL-NGS-109857	56.11744	36740105
12	ARS-BFGL-NGS-33509	56.12124	36764448
12	ARS-BFGL-NGS-32801	56.13132	36828848
12	Hapmap26769-BTA-162373	56.14414	36910749
12	ARS-BFGL-NGS-82501	56.15653	36989957
12	ARS-BFGL-NGS-45806	56.16212	37025686
12	ARS-BFGL-NGS-100956	56.17532	37110042
12	ARS-BFGL-NGS-27730	56.19116	37211264
12	ARS-BFGL-NGS-59161	56.20856	37322461
12	Hapmap24209-BTA-157354	56.23734	37506351
12	ARS-BFGL-NGS-89246	56.25016	37588238
12	ARS-BFGL-NGS-13845	56.26433	37678844
12	Hapmap30367-BTA-90717	56.34621	38202098
12	ARS-BFGL-NGS-83273	56.40681	38589298
12	Hapmap49412-BTA-102739	56.41788	38660049
12	Hapmap52179-rs29018440	56.4437	38825085
12	Hapmap55243-rs29011649	56.47462	39022698
12	Hapmap44678-BTA-18978	56.51014	39249662
12	ARS-BFGL-NGS-103169	56.77103	39426607
12	ARS-BFGL-NGS-63417	56.93453	39538392
12	Hapmap43547-BTA-28238	56.95314	39575324
12	ARS-BFGL-NGS-20034	57.00246	39673251
12	ARS-BFGL-NGS-62883	57.01348	39695130
12	Hapmap43991-BTA-102559	57.04245	39752637
12	ARS-BFGL-BAC-16276	57.06696	39801280
12	BTA-102546-no-rs	57.10569	39878164
12	BTA-102528-no-rs	57.12974	39925909
12	ARS-BFGL-NGS-110832	57.17165	40009119
12	Hapmap57051-rs29018418	57.27444	40213160
12	BTA-21976-no-rs	57.33418	40331755
12	Hapmap51421-BTA-21975	57.3666	40396118
12	Hapmap28034-BTA-116850	57.4491	40559886
12	ARS-BFGL-NGS-84218	57.50063	40657942
12	BTA-29432-no-rs	57.58883	40797906
12	Hapmap47538-BTA-19932	57.7636	41075239
12	Hapmap44316-BTA-93259	57.86724	41239706
12	BTA-93265-no-rs	57.88475	41267489
12	ARS-BFGL-NGS-100580	57.95832	41384223
12	Hapmap42762-BTA-100328	58.01806	41479027
12	BTA-100327-no-rs	58.13623	41666540
12	ARS-BFGL-NGS-22357	58.21451	41817491
12	BTA-100318-no-rs	58.24214	41872777
12	Hapmap38798-BTA-100325	58.3083	42005184
12	ARS-BFGL-NGS-100964	58.32891	42046435
12	Hapmap40023-BTA-76828	58.34882	42086283
12	BTA-93372-no-rs	58.4162	42221127
12	Hapmap40149-BTA-93384	58.46265	42314088

12	Hapmap57953-rs29017138	58.47869	42346189
12	Hapmap45233-BTA-100751	58.65924	42606004
12	Hapmap50181-BTA-100747	58.68678	42645523
12	ARS-BFGL-NGS-109720	58.73117	42709211
12	ARS-BFGL-BAC-16287	59.31838	43551814
12	BTA-21437-no-rs	59.35323	43601825
12	Hapmap41206-BTA-21427	59.44626	43735322
12	Hapmap52274-rs29017133	59.49086	43799317
12	Hapmap58144-rs29020106	59.51798	43838225
12	ARS-BFGL-NGS-114010	59.53768	43866499
12	Hapmap33492-BTA-147483	59.70716	44109687
12	ARS-BFGL-NGS-108048	59.72382	44133597
12	ARS-BFGL-NGS-100396	59.82373	44276949
12	Hapmap52726-rs29018162	59.85849	44326840
12	ARS-BFGL-NGS-2584	59.87601	44351981
12	ARS-BFGL-NGS-100985	59.98037	44501711
12	ARS-BFGL-BAC-830	60.06879	44628599
12	UA-IFASA-9547	60.09641	44668222
12	ARS-BFGL-NGS-39971	60.18834	44800140
12	BTA-113803-no-rs	60.22284	44853729
12	BTA-21671-no-rs	60.27436	45002070
12	ARS-BFGL-NGS-37934	60.29129	45050839
12	BTA-21672-no-rs	60.29914	45073424
12	ARS-BFGL-NGS-19223	60.31037	45105758
12	Hapmap43513-BTA-21673	60.32069	45135480
12	BTA-21678-no-rs	60.34195	45196682
12	BTB-00490422	60.35671	45239179
12	BTA-11801-no-rs	60.36695	45268668
12	BTB-01438270	60.37681	45297046
12	BTB-01438321	60.38814	45329684
12	BTB-01438340	60.39813	45358430
12	Hapmap58985-rs29020498	60.40819	45387398
12	BTB-01438513	60.41579	45409287
12	BTB-01438525	60.42394	45432759
12	BTA-22719-no-rs	60.4371	45470640
12	BTB-00491586	60.44918	45505409
12	BTB-00491397	60.46553	45552480
12	BTB-00491321	60.48026	45594909
12	BTB-01944898	60.48891	45619802
12	BTA-22711-no-rs	60.56123	45649503
12	ARS-BFGL-NGS-14440	60.71047	45705138
12	BTB-00491138	60.78159	45731646
12	Hapmap44038-BTA-22707	60.83715	45752359
12	BTA-22703-no-rs	60.97409	45803408
12	BTA-22699-no-rs	61.28541	45919459
12	ARS-BFGL-NGS-89437	61.37498	45952853
12	BTB-00490733	61.47759	45991100
12	ARS-BFGL-NGS-117293	61.59464	46034731
12	BTA-21707-no-rs	61.93057	46159958
12	BTA-21711-no-rs	62.01364	46190927
12	BTB-00490848	62.06437	46212743
12	ARS-BFGL-BAC-16293	62.13902	46290143
12	ARS-BFGL-NGS-36968	62.1874	46340306
12	Hapmap33190-BTA-127606	62.26488	46420641
12	BTB-00491672	62.4277	46589464
12	ARS-BFGL-NGS-58817	62.47462	46638109
12	Hapmap60234-rs29014640	62.54509	46711181
12	BTA-22732-no-rs	62.57284	46739954
12	Hapmap33191-BTA-127621	62.60743	46775815

12	BTB-00491767	62.63357	46802918
12	ARS-BFGL-BAC-16297	62.65903	46829310
12	Hapmap45915-BTA-22734	62.69598	46867626
12	BTB-00491839	62.72	46917339
12	BTB-00491934	62.73995	47019009
12	ARS-BFGL-NGS-74890	62.75722	47047124
12	ARS-BFGL-NGS-31545	62.77804	47081031
12	BTB-00492020	62.8308	47166957
12	BTB-00492056	62.85315	47203365
12	BTB-00492076	62.86832	47228055
12	BTB-00492128	62.8926	47267604
12	BTB-00492194	62.91274	47300401
12	ARS-BFGL-NGS-106746	62.93371	47334555
12	ARS-BFGL-NGS-29737	62.95225	47364745
12	Hapmap33349-BTA-127624	62.9684	47391047
12	BTB-00492474	63.02641	47485522
12	BTB-00492485	63.03898	47505996
12	Hapmap49537-BTA-22748	63.07299	47561381
12	BTB-00492557	63.09087	47590506
12	Hapmap48124-BTA-92499	63.1062	47615464
12	BTA-22797-no-rs	63.16486	47710999
12	ARS-BFGL-NGS-28777	63.1871	47747210
12	Hapmap31726-BTA-127593	63.21262	47788773
12	BTB-00490490	63.22581	47810246
12	BTB-00490466	63.24649	47836570
12	BTB-00776333	63.34534	47953450
12	BTB-00776345	63.37243	47985472
12	BTB-01769706	63.42041	48042191
12	BTA-50103-no-rs	63.48476	48131404
12	Hapmap43279-BTA-50109	63.50604	48162793
12	Hapmap39927-BTA-50117	63.55946	48241605
12	BTA-109387-no-rs	63.61075	48317283
12	BTA-50119-no-rs	63.63455	48352391
12	BTB-00492841	63.68954	48433535
12	Hapmap55947-rs29025358	63.70444	48455510
12	ARS-BFGL-NGS-30445	63.72712	48488970
12	BTB-00492761	63.76773	48548890
12	Hapmap51168-BTA-121963	63.7902	48582037
12	BTA-23789-no-rs	63.80873	48609392
12	Hapmap42477-BTA-22799	63.83336	48645720
12	ARS-BFGL-NGS-35729	63.9246	48780336
12	Hapmap43147-BTA-108562	63.93428	48794617
12	BTB-00492370	63.96531	48840400
12	BTB-01194751	63.99557	48885042
12	BTB-01194697	64	48909344
12	BTB-01194674	64	48931688
12	ARS-BFGL-NGS-113566	64	48984802
12	Hapmap51545-BTA-108554	64	49006756
12	BTA-108551-no-rs	64	49095991
12	BTB-01194444	64	49119232
12	BTA-108564-no-rs	64	49203403
12	Hapmap49440-BTA-110439	64	49265353
12	ARS-BFGL-NGS-91628	64.06079	49371159
12	ARS-BFGL-NGS-103244	64.09119	49395053
12	ARS-BFGL-NGS-37837	64.12447	49421215
12	ARS-BFGL-BAC-779	64.15459	49444893
12	BTB-01544419	64.17937	49464372
12	BTA-89351-no-rs	64.22023	49496489
12	BTB-01406729	64.25271	49522021

12	Hapmap58374-rs29014573	64.32931	49582236
12	Hapmap42878-BTA-23796	64.52156	49733358
12	BTB-01902268	64.55626	49760634
12	Hapmap44046-BTA-24683	64.57	49781954
12	BTA-09170-no-rs	64.57	49807829
12	BTB-01237697	64.57	49840890
12	Hapmap50240-BTA-115901	64.57	49867582
12	BTB-01237416	64.57	49964419
12	BTA-115896-no-rs	64.57	50040514
12	BTB-01237150	64.57	50125707
12	ARS-BFGL-NGS-115420	64.57	50155758
12	BTB-02088181	64.69631	50220147
12	BTB-01236932	64.97124	50266455
12	BTB-01236909	65.14137	50295112
12	Hapmap24385-BTA-163189	65.18707	50320265
12	Hapmap24016-BTA-163187	65.19236	50324576
12	Hapmap48111-BTA-88515	65.25562	50376022
12	BTB-01980482	65.34815	50451289
12	BTA-85766-no-rs	65.38931	50484765
12	ARS-BFGL-NGS-116223	65.41428	50505079
12	BTB-01834338	65.48585	50563283
12	BTA-19373-no-rs	65.52086	50591762
12	ARS-BFGL-NGS-110965	65.77615	50676062
12	BTA-23872-no-rs	65.90173	50715278
12	Hapmap53008-rs29013337	66.02478	50753709
12	BTB-00494658	66.19923	50808182
12	BTB-00494575	66.29667	50838618
12	BTA-23867-no-rs	66.3835	50865733
12	BTA-23856-no-rs	66.55144	50918873
12	Hapmap43214-BTA-23846	66.59296	50951910
12	BTA-23844-no-rs	66.61686	50970937
12	BTB-00705700	66.65038	50997608
12	BTA-23832-no-rs	66.68735	51027028
12	Hapmap38587-BTA-23830	66.73862	51067836
12	Hapmap44942-BTA-23829	66.78656	51105985
12	BTA-92165-no-rs	66.81429	51128057
12	ARS-BFGL-NGS-98652	66.86079	51165056
12	BTB-00493768	66.92786	51218435
12	ARS-BFGL-NGS-42925	66.98959	51267555
12	ARS-BFGL-NGS-90133	67.01855	51290607
12	BTB-00495047	67.07778	51337744
12	Hapmap31727-BTA-127647	67.16138	51403603
12	BTA-87640-no-rs	67.23082	51424994
12	ARS-BFGL-NGS-103962	67.34969	51461607
12	BTB-01433155	67.50514	51521253
12	Hapmap40859-BTA-07278	67.58222	51555645
12	Hapmap49878-BTA-118994	67.66182	51591161
12	BTB-01433297	67.83229	51667219
12	BTB-02000681	68.03505	51757685
12	ARS-BFGL-NGS-2513	68.08029	51777874
12	BTB-00495782	68.20792	51834816
12	BTB-00495763	68.27502	51864752
12	BTA-24798-no-rs	68.35143	51898848
12	BTB-00495684	68.51871	51973484
12	ARS-BFGL-NGS-36563	68.58698	52003943
12	BTA-24782-no-rs	68.8112	52032777
12	BTB-00495415	68.83073	52098655
12	ARS-BFGL-NGS-102121	68.83874	52125690
12	ARS-BFGL-NGS-112324	68.84854	52158780

12	ARS-BFGL-NGS-41685	68.86293	52207318
12	BTB-00495300	68.87268	52240216
12	BTB-00495251	68.89813	52326098
12	Hapmap47222-BTA-23817	68.91837	52394370
12	BTA-23814-no-rs	68.93	52435197
12	BTB-00493207	68.93	52463410
12	BTB-00493134	68.94695	52492536
12	Hapmap43521-BTA-23812	69.02327	52546816
12	BTB-00493094	69.06084	52573538
12	BTB-00493082	69.0954	52598114
12	BTA-23803-no-rs	69.15603	52641232
12	BTB-00493019	69.18708	52663318
12	Hapmap50625-BTA-23801	69.33296	52767067
12	Hapmap59400-rs29023728	69.36578	52790408
12	Hapmap53545-rs29023676	69.41953	52828641
12	BTB-01725024	69.51302	52895133
12	Hapmap54383-rs29020024	69.54499	52917863
12	ARS-BFGL-NGS-11432	69.6736	53009331
12	ARS-BFGL-BAC-13721	69.71762	53040643
12	BTB-00495788	69.75139	53064660
12	ARS-BFGL-NGS-34948	69.7736	53080458
12	BTB-01238380	69.80217	53100776
12	Hapmap50577-BTA-115995	69.84822	53133528
12	BTB-01238454	69.88531	53160479
12	ARS-BFGL-NGS-110323	69.95497	53217670
12	ARS-BFGL-NGS-92586	69.98458	53241975
12	BTB-00221770	70.03551	53283788
12	BTB-00221755	70.09384	53337773
12	ARS-BFGL-NGS-17386	70.11487	53364295
12	BTB-00496202	70.13834	53393910
12	BTB-00496106	70.16615	53428996
12	ARS-BFGL-NGS-27779	70.19765	53468735
12	Hapmap39885-BTA-110891	70.29299	53589025
12	ARS-BFGL-NGS-11493	70.31362	53615051
12	BTB-00496783	70.34475	53654325
12	BTB-00496702	70.36963	53685709
12	BTB-00496614	70.39882	53722535
12	ARS-BFGL-NGS-69516	70.42565	53756393
12	Hapmap48694-BTA-24826	70.47806	53822508
12	Hapmap59975-rs29022046	70.51619	53870614
12	BTB-00496280	70.54794	53900515
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12	BTB-00496806	70.63354	53960037
12	BTB-00498136	70.67229	53986983
12	BTB-00498124	70.71246	54014920
12	ARS-BFGL-NGS-117898	70.75667	54045655
12	Hapmap42155-BTA-25938	70.79338	54071185
12	BTB-00498059	70.90599	54149489
12	Hapmap42886-BTA-25934	70.95614	54184360
12	ARS-BFGL-NGS-115846	71.04235	54244309
12	ARS-BFGL-NGS-76959	71.12934	54304795
12	BTB-00497918	71.15865	54325176
12	BTB-00497910	71.17429	54336046
12	Hapmap49098-BTA-25922	71.21075	54361410
12	Hapmap26937-BTA-127685	71.27925	54409035
12	BTB-00497582	71.34095	54451941
12	BTB-00497555	71.39333	54488360
12	BTB-00497796	71.43849	54519764
12	ARS-BFGL-NGS-117528	71.48261	54550449

12	ARS-BFGL-NGS-26583	71.56139	54605227
12	ARS-BFGL-NGS-80997	71.67796	54686279
12	ARS-BFGL-NGS-35791	71.71228	54714234
12	Hapmap58301-rs29026494	71.92747	54935437
12	ARS-BFGL-NGS-25276	71.97043	54979593
12	ARS-BFGL-NGS-100049	72.01106	55021363
12	ARS-BFGL-NGS-83030	72.03438	55045337
12	Hapmap47552-BTA-25948	72.06244	55074178
12	ARS-BFGL-NGS-2151	72.08541	55097796
12	BTB-00498394	72.17565	55190550
12	BTB-00498361	72.20177	55217410
12	BTB-00498352	72.23199	55248475
12	BTB-02088288	72.25616	55273312
12	BTB-00498268	72.29111	55309250
12	Hapmap48697-BTA-25943	72.31474	55333531
12	BTB-00499378	72.36888	55389189
12	Hapmap41810-BTA-26946	72.38957	55410460
12	ARS-BFGL-NGS-14623	72.41728	55438943
12	ARS-BFGL-BAC-14373	72.5015	55525519
12	ARS-BFGL-BAC-14372	72.55801	55583608
12	UA-IFASA-1929	72.6004	55627174
12	BTB-00499073	72.62672	55654241
12	Hapmap56826-rs29013564	72.64663	55674695
12	BTA-25972-no-rs	72.66399	55692554
12	BTA-25970-no-rs	72.72272	55752915
12	BTA-25969-no-rs	72.7473	55778182
12	BTA-25963-no-rs	72.76	55811850
12	BTB-00498885	72.76	55837570
12	Hapmap48424-BTA-65447	72.76	55867003
12	ARS-BFGL-NGS-86152	72.76	55906047
12	BTB-01021061	72.76	55957413
12	BTB-01021067	72.76	55982934
12	BTB-01021085	72.76	56005485
12	Hapmap40222-BTA-65450	72.76	56055676
12	BTB-00499441	72.76	56173146
12	BTB-01021521	72.76	56289541
12	BTB-01021469	72.76	56326750
12	Hapmap51019-BTA-65454	72.76	56367819
12	ARS-BFGL-NGS-104509	72.76	56380581
12	ARS-BFGL-NGS-96681	72.76	56418392
12	BTB-01834845	72.76	56553579
12	BTB-00499460	72.76	56586007
12	Hapmap43219-BTA-26954	72.76	56623014
12	BTA-26956-no-rs	72.76	56653121
12	BTB-00499591	72.76	56695055
12	Hapmap42162-BTA-26965	72.79861	56774667
12	BTA-26970-no-rs	72.86787	56889917
12	BTB-00499989	72.90608	56953523
12	BTA-25061-no-rs	72.94609	57020102
12	BTB-02035517	72.98043	57077252
12	BTB-00500006	73.00082	57111185
12	BTA-26974-no-rs	73.01	57132242
12	BTA-26979-no-rs	73.01183	57194006
12	Hapmap43220-BTA-26980	73.01715	57211328
12	BTB-00500072	73.03834	57280313
12	BTA-101747-no-rs	73.06432	57364937
12	Hapmap39166-BTA-101760	73.07179	57389262
12	BTB-01537438	73.08537	57433505
12	ARS-BFGL-NGS-24853	73.103	57490888

12	ARS-BFGL-NGS-17551	73.13744	57603061	
12	BTB-01839492	73.17046	57661486	
12	Hapmap50611-BTA-19865	73.19759	57684714	
12	ARS-BFGL-BAC-13745	73.22406	57707362	
12	Hapmap40211-BTA-27114	73.27091	57747455	
12	BTB-01350179	73.29698	57769768	
12	Hapmap33957-BES4_Contig323_1373	73.33669	57803744	57803744
12	BTB-01745779	73.40842	57865136	
12	BTA-23785-no-rs	73.4499	57900635	
12	BTB-00500086	73.48611	57931622	
12	BTB-01280552	73.55083	57987018	
12	BTA-122625-no-rs	73.598	58027379	
12	BTB-01280469	73.67089	58089757	
12	ARS-BFGL-NGS-79581	73.70797	58121488	
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12	BTB-01238283	73.92	58335403	
12	BTB-01238185	73.92	58375654	
12	BTB-01349020	73.92	58461348	
12	BTB-01349004	73.92	58506645	
12	ARS-BFGL-NGS-1018	73.92	58551572	
12	BTB-01348658	73.92	58665973	
12	BTB-01348492	73.92	58692824	
12	ARS-BFGL-NGS-41469	73.92	58733168	
12	ARS-BFGL-NGS-113128	73.92	58755730	
12	BTB-00266494	73.92	58777127	
12	BTB-00266404	73.92952	58889102	
12	BTB-00266369	73.93784	58938756	
12	BTB-00266340	73.94328	58971260	
12	BTB-00266282	73.95382	59034193	
12	Hapmap48886-BTA-77064	73.96037	59073255	
12	Hapmap41455-BTA-120930	73.98861	59144693	
12	BTB-00506214	74.0164	59165479	
12	BTB-00506196	74.03	59185443	
12	BTA-30880-no-rs	74.03	59218880	
12	BTA-30878-no-rs	74.04261	59239590	
12	BTB-01499620	74.06046	59264327	
12	BTB-01499587	74.0765	59286540	
12	BTA-98543-no-rs	74.16776	59412979	
12	BTB-00266144	74.18513	59437039	
12	Hapmap57388-rs29021134	74.25084	59528070	
12	ARS-BFGL-NGS-109234	74.27177	59557065	
12	ARS-BFGL-NGS-109722	74.30984	59609816	
12	BTB-01685575	74.36776	59690043	
12	ARS-BFGL-BAC-14350	74.38949	59720149	
12	ARS-BFGL-NGS-31482	74.42056	59763198	
12	BTB-01397658	74.4613	59819642	
12	ARS-BFGL-NGS-112383	74.50024	59873569	
12	ARS-BFGL-NGS-103418	74.53458	59921146	
12	Hapmap54627-rs29021621	74.60019	60012041	
12	BTB-01202260	74.621	60040871	
12	BTB-01202158	74.6375	60063730	
12	BTA-109592-no-rs	74.6888	60134810	
12	ARS-BFGL-NGS-115068	74.76365	60238497	
12	Hapmap25230-BTA-109587	74.86374	60377153	
12	ARS-BFGL-NGS-61380	75.00175	60568356	
12	ARS-BFGL-NGS-66329	75.2804	60863971	
12	BTA-66744-no-rs	75.35889	60925534	
12	Hapmap55178-rs29024455	75.40376	60960716	



12	ARS-BFGL-NGS-116351	75.48743	61026341
12	BTA-65033-no-rs	75.54735	61073334
12	BTB-01011791	75.58698	61104411
12	BTB-00500246	75.64918	61153197
12	BTA-29393-no-rs	75.68334	61179992
12	BTA-65034-no-rs	75.72424	61212072
12	Hapmap43007-BTA-65036	75.78365	61258655
12	BTB-01012231	75.85521	61314786
12	BTB-01980499	75.89432	61345454
12	Hapmap51193-BTA-23532	75.93437	61376874
12	BTA-90150-no-rs	75.95885	61396071
12	ARS-BFGL-NGS-111243	75.99837	61427064
12	ARS-BFGL-NGS-61680	76.03272	61457442
12	BTB-01625209	76.16326	61573515
12	BTB-01625220	76.20235	61608282
12	Hapmap51863-BTA-89179	76.26842	61667023
12	BTB-00204863	76.67458	62028176
12	BTB-01989473	76.72063	62069128
12	BTB-01899675	76.73375	62080792
12	BTB-01702885	76.84782	62182226
12	BTB-01410968	76.90287	62231176
12	ARS-BFGL-NGS-57684	76.94234	62266267
12	BTA-85739-no-rs	76.98877	62307557
12	BTB-01537841	77.02795	62342403
12	BTA-101800-no-rs	77.07108	62380750
12	BTB-01537669	77.11474	62419569
12	Hapmap51372-BTA-101786	77.14962	62450584
12	BTA-21329-no-rs	77.2253	62517886
12	BTB-01908247	77.26191	62550434
12	BTB-00146229	77.30103	62585226
12	Hapmap27169-BTA-141662	77.33468	62615139
12	Hapmap55458-rs29025293	77.37212	62648430
12	BTA-16384-no-rs	77.416	62687453
12	BTB-01791112	77.46161	62728009
12	Hapmap55032-rs29016506	77.51367	62774302
12	BTB-01507160	77.55811	62813820
12	ARS-BFGL-NGS-111337	77.59319	62845006
12	BTB-01370996	77.75687	62990561
12	ARS-BFGL-NGS-112356	77.8019	63030598
12	BTB-01370890	77.88434	63103894
12	BTB-01370842	77.91222	63128693
12	BTB-02009715	77.95099	63163164
12	BTB-01277392	77.98688	63195078
12	ARS-BFGL-NGS-111669	78.09399	63290316
12	Hapmap33247-BTA-159549	78.14155	63332609
12	Hapmap54902-rs29018449	78.18217	63368729
12	Hapmap50648-BTA-29871	78.24844	63427656
12	ARS-BFGL-NGS-59000	78.30486	63477827
12	BTB-01276880	78.36242	63529009
12	Hapmap51995-BTA-16641	78.39775	63560427
12	Hapmap41121-BTA-99856	78.47681	63630728
12	ARS-BFGL-NGS-28586	78.5016	63652773
12	ARS-BFGL-NGS-39813	78.59502	63735841
12	BTB-01864265	78.64984	63784586
12	BTB-01864324	78.67493	63806893
12	BTA-92405-no-rs	78.72206	63848798
12	ARS-BFGL-NGS-91450	78.75	63885002
12	Hapmap33377-BTA-152903	78.77787	63969950
12	BTB-01427603	78.95502	64088197

12	ARS-BFGL-NGS-115070	79.15581	64222223
12	BTB-01688681	79.27087	64299024
12	BTB-01713461	79.33022	64338643
12	ARS-BFGL-NGS-70979	79.3983	64384089
12	BTB-01499710	79.51398	64461309
12	ARS-BFGL-NGS-32696	79.57064	64499123
12	ARS-BFGL-NGS-104868	79.6021	64520128
12	Hapmap60380-rs29010950	79.67187	64566694
12	Hapmap58072-rs29010006	79.71078	64592673
12	ARS-BFGL-NGS-29925	79.76943	64631815
12	ARS-BFGL-NGS-104192	79.81733	64663790
12	BTB-01734532	79.85685	64690171
12	BTB-01734493	79.89009	64712358
12	ARS-BFGL-NGS-102285	79.93945	64745304
12	BTB-01969051	79.96433	64761912
12	BTA-27008-no-rs	80.0565	64823442
12	Hapmap51577-BTA-27003	80.12043	64866107
12	BTB-02012487	80.28724	64977456
12	ARS-BFGL-NGS-58233	80.42074	65066565
12	ARS-BFGL-NGS-110053	80.4595	65092442
12	BTB-01283856	80.51793	65131442
12	BTB-01283869	80.56091	65160133
12	BTB-01283892	80.63535	65209818
12	BTB-00554213	81.22369	65602532
12	BTB-00554247	81.28626	65644303
12	BTB-00554297	81.31316	65662261
12	BTA-00455-rs29013612	81.34713	65684932
12	ARS-BFGL-NGS-10953	81.41136	65727810
12	BTB-00866714	81.47742	65771899
12	BTB-00866633	81.52839	65805918
12	ARS-BFGL-NGS-24783	81.56034	65827295
12	Hapmap60913-rs29017395	81.61255	65869204
12	BTB-00500494	81.66312	65909789
12	BTB-00500486	81.68985	65931247
12	ARS-BFGL-BAC-14357	81.73564	65968005
12	Hapmap57649-rs29022414	81.86054	66068259
12	ARS-BFGL-BAC-14359	81.99377	66175192
12	Hapmap46131-BTA-27009	82.36701	66367861
12	Hapmap50874-BTA-113205	82.56418	66444916
12	BTA-99438-no-rs	82.73483	66497699
12	BTA-99443-no-rs	82.84157	66544890
12	Hapmap51671-BTA-99441	82.95786	66597090
12	ARS-BFGL-NGS-62753	83.10848	66664703
12	Hapmap44023-BTA-122769	83.24115	66724256
12	BTB-01338066	83.34975	66773008
12	BTB-01338033	83.46139	66823119
12	BTB-01338008	83.52618	66852202
12	BTA-25371-no-rs	83.58241	66877440
12	BTB-01337883	83.63915	66902915
12	BTB-01337869	83.6837	66922914
12	BTB-01337853	83.79097	66971064
12	BTB-02002520	83.88104	67011497
12	BTB-01592095	83.93305	67034845
12	Hapmap38372-BTA-106410	84.02026	67073994
12	Hapmap28306-BTA-142098	84.29546	67197518
12	BTB-00502546	84.37326	67249579
12	ARS-BFGL-BAC-14362	84.39053	67348260
12	ARS-BFGL-BAC-14364	84.39715	67386075
12	Hapmap46561-BTA-28033	84.42387	67538730

12	ARS-BFGL-BAC-14367	84.42847	67564989	
12	ARS-BFGL-NGS-34087	84.44167	67640442	
12	Hapmap46602-BTA-28034	84.45494	67716235	
12	Hapmap35637-SCAFFOLD231403_4624	84.46384		67767045
12	BTB-00502495	84.4686	67794244	
12	BTB-00502512	84.47617	67837476	
12	BTB-00502017	84.4961	67951346	
12	ARS-BFGL-NGS-45468	84.49884	67966997	
12	ARS-BFGL-NGS-2915	84.51517	68060288	
12	Hapmap38665-BTA-28024	84.51964	68085835	
12	ARS-BFGL-NGS-114263	84.54059	68202500	
12	BTB-00501758	84.58275	68227222	
12	ARS-BFGL-BAC-14374	84.62085	68249566	
12	ARS-BFGL-NGS-117873	84.65899	68271937	
12	Hapmap38825-BTA-28013	84.69899	68295390	
12	BTB-00501637	84.7613	68331935	
12	BTB-00501626	84.79546	68351968	
12	Hapmap51922-BTA-88429	84.87554	68398935	
12	Hapmap48110-BTA-88422	84.96873	68453584	
12	ARS-BFGL-NGS-23408	85.01228	68479126	
12	BTB-00501374	85.05891	68506471	
12	Hapmap52912-rs29011621	85.07757	68532165	
12	BTB-00501232	85.10571	68603527	
12	ARS-BFGL-NGS-54132	85.11561	68628611	
12	ARS-BFGL-BAC-5848	85.12708	68657690	
12	BTB-00500979	85.13535	68678678	
12	Hapmap51198-BTA-27036	85.14502	68703184	
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12	ARS-BFGL-NGS-39236	85.17724	68784880	
12	BTA-27027-no-rs	85.18823	68812742	
12	BTB-00500829	85.2017	68846890	
12	BTB-00500819	85.21568	68882339	
12	ARS-BFGL-NGS-105846	85.24026	68944676	
12	BTB-00503044	85.25381	68979011	
12	Hapmap43825-BTA-28068	85.26427	69005539	
12	ARS-BFGL-BAC-14989	85.27936	69043790	
12	BTA-28075-no-rs	85.28352	69054353	
12	ARS-BFGL-BAC-14990	85.30405	69106382	
12	Hapmap38187-BTA-105082	85.34761	69216840	
12	ARS-BFGL-NGS-39393	85.3717	69277902	
12	BTA-121184-no-rs	85.38	69368196	
12	BTB-00751066	85.38	69389713	
12	Hapmap44078-BTA-45393	85.41334	69440549	
12	ARS-BFGL-BAC-5690	85.44176	69467211	
12	Hapmap54363-rs29014773	85.47071	69494347	
12	ARS-BFGL-BAC-13788	85.4899	69512332	
12	ARS-BFGL-BAC-14420	85.53784	69557283	
12	BTB-00500725	85.6353	69648659	
12	ARS-BFGL-NGS-96259	85.73756	69744529	
12	Hapmap23511-BTA-119303	85.76274	69768137	
12	ARS-BFGL-NGS-101584	85.79365	69797109	
12	BTB-00503215	85.83755	69838275	
12	BTA-28079-no-rs	85.87572	69874053	
12	BTB-00503371	85.93105	69925933	
12	ARS-BFGL-NGS-72873	85.97706	69969069	
12	ARS-BFGL-NGS-19356	86.01015	70000094	
12	BTB-00503574	86.05014	70037594	
12	Hapmap38485-BTA-28081	86.07843	70064114	
12	BTB-00503633	86.10849	70092297	

12	ARS-BFGL-NGS-36145	86.13802	70119984	
12	Hapmap50646-BTA-29027	86.16043	70140996	
12	BTB-00503845	86.18457	70163625	
12	ARS-BFGL-NGS-59515	86.20914	70186665	
12	ARS-BFGL-NGS-3760	86.24976	70224733	
12	ARS-BFGL-NGS-45730	86.28785	70260457	
12	ARS-BFGL-NGS-117275	86.31992	70290528	
12	ARS-BFGL-NGS-57278	87.2	72285729	
12	ARS-BFGL-NGS-28261	87.2	72311316	
12	BTA-95991-no-rs	87.2	72341102	
12	ARS-BFGL-BAC-15060	87.2	72358156	
12	BTB-02069540	87.2	72395142	
12	Hapmap51343-BTA-88743	87.2	72414147	
12	ARS-BFGL-NGS-108019	89.55613	75286890	
12	BTB-01857726	89.64605	75439996	
12	ARS-BFGL-NGS-103383	91.57703	76787101	
12	BTA-29081-no-rs	91.75822	76926072	
12	ARS-BFGL-NGS-15142	91.78444	76946174	
12	Hapmap30308-BTA-156697	92.17054	77242303	
12	ARS-BFGL-NGS-57541	92.26654	77315938	
12	Hapmap53759-rs29023625	92.3073	77347204	
12	ARS-BFGL-NGS-85162	92.34975	77379757	
12	Hapmap49113-BTA-30008	92.36123	77388557	
12	Hapmap58455-rs29022321	92.43752	77447074	
12	ARS-BFGL-NGS-110039	92.47668	77477113	
12	BTA-29998-no-rs	92.50734	77500623	
12	ARS-BFGL-NGS-15699	92.53853	77524541	
12	BTA-29995-no-rs	92.65185	77611452	
12	Hapmap53999-rs29018278	92.76128	77695384	
12	ARS-BFGL-NGS-16052	92.79991	77725016	
12	ARS-BFGL-NGS-41986	92.82832	77746796	
12	BTA-29990-no-rs	92.91937	77816640	
12	ARS-BFGL-NGS-75733	93.11213	77964481	
12	BTA-29126-no-rs	93.14888	77992661	
12	ARS-BFGL-NGS-14529	93.17733	78014490	
12	ARS-BFGL-NGS-24482	93.28761	78099072	
12	ARS-BFGL-NGS-53179	93.34976	78146737	
12	ARS-BFGL-NGS-111037	93.38094	78170646	
12	BTA-25306-no-rs	93.43559	78212571	
12	Hapmap43821-BTA-25321	93.51926	78276736	
12	Hapmap58533-rs29018583	93.55066	78300814	
12	ARS-BFGL-NGS-37992	93.58539	78327456	
12	ARS-BFGL-NGS-110479	93.63744	78367374	
12	ARS-BFGL-NGS-44151	93.74183	78447443	
12	Hapmap52668-rs29014650	93.78333	78479265	
12	ARS-BFGL-NGS-109427	93.82078	78507995	
12	ARS-BFGL-NGS-32303	93.86308	78540440	
12	ARS-BFGL-NGS-115891	93.94966	78606843	
12	ARS-BFGL-NGS-19812	94.06389	78694446	
12	ARS-BFGL-NGS-41319	94.1089	78728978	
12	Hapmap49949-BTA-30042	94.13699	78750520	
12	Hapmap34950-BES7_Contig406_1227		94.18568	78787855
12	ARS-BFGL-NGS-36086	94.22892	78821023	
12	Hapmap35799-SCAFFOLD256007_7542		94.30573	78879934
12	Hapmap41498-BTA-30049	94.36089	78922242	
12	BTA-122515-no-rs	94.62431	79124282	
12	Hapmap42441-BTA-115588	94.68505	79170861	
12	BTA-115591-no-rs	94.75453	79224151	
12	ARS-BFGL-NGS-104936	94.78869	79250355	

12	ARS-BFGL-BAC-7362	94.8393	79289169	
12	ARS-BFGL-NGS-117564	94.86695	79310379	
12	ARS-BFGL-NGS-89207	94.92194	79352555	
12	ARS-BFGL-NGS-8701	94.95039	79374370	
12	Hapmap27863-BTA-127921	95.05718	79456283	
12	ARS-BFGL-NGS-36799	95.14087	79520461	
12	ARS-BFGL-NGS-40082	95.19235	79559951	
12	UA-IFASA-2256	95.24878	79603226	
12	ARS-BFGL-NGS-112325	95.30077	79643103	
12	ARS-BFGL-NGS-19305	95.35046	79681208	
12	ARS-BFGL-NGS-56771	95.38557	79708146	
12	ARS-BFGL-NGS-29810	95.43098	79742974	
12	ARS-BFGL-NGS-112758	95.48972	79788015	
12	ARS-BFGL-NGS-115889	95.52484	79814959	
12	ARS-BFGL-NGS-12016	95.59853	79871469	
12	BTA-109112-no-rs	95.63157	79896813	
12	BTA-109113-no-rs	95.6585	79917472	
12	BTA-30857-no-rs	95.7	80058952	
12	ARS-BFGL-NGS-100	95.7	80148778	
12	ARS-BFGL-NGS-34730	95.7	80190099	
12	ARS-BFGL-NGS-36295	95.7	80221993	
12	Hapmap42503-BTA-30861	95.7	80331512	
12	Hapmap58260-rs29024773	95.7	80395615	
12	ARS-BFGL-BAC-7373	95.7	80460375	
12	ARS-BFGL-NGS-118466	95.7	80484542	
12	Hapmap40904-BTA-120929	95.7	80583093	
12	ARS-USMARC-Parent-DQ832700-rs29012872	95.7	80629629	
12	Hapmap36566-SCAFFOLD135238_3808	95.7	80629629	
12	ARS-BFGL-NGS-103725	95.7	80664887	
12	ARS-BFGL-NGS-32310	95.7	80707508	
12	ARS-BFGL-NGS-27810	95.7	80804251	
12	UA-IFASA-2080	95.7	80892109	
12	Hapmap48943-BTA-91147	95.7	80915244	
12	BTA-91151-no-rs	95.75891	80978461	
12	ARS-BFGL-NGS-22985	95.84328	81048745	
12	ARS-BFGL-NGS-5118	95.88664	81084869	
12	ARS-BFGL-NGS-8073	95.92875	81119950	
12	ARS-BFGL-NGS-13252	96.00582	81184160	
12	ARS-BFGL-NGS-8016	96.14797	81302573	
12	ARS-BFGL-NGS-106587	96.23174	81372372	
12	Hapmap58143-rs29019806	96.26021	81396082	
12	ARS-BFGL-NGS-32656	96.31942	81445405	
12	ARS-BFGL-NGS-39990	96.37451	81491302	
12	ARS-BFGL-NGS-18448	96.4332	81540197	
12	ARS-BFGL-NGS-116352	96.46375	81565644	
12	Hapmap48108-BTA-87770	96.48921	81586853	
12	Hapmap48930-BTA-87766	96.528	81619169	
12	ARS-BFGL-NGS-12480	96.55585	81642369	
12	ARS-BFGL-NGS-92966	96.59834	81677757	
12	Hapmap60895-rs29027510	96.64794	81719087	
12	Hapmap30556-BTA-147818	96.80455	81849554	
12	Hapmap23317-BTA-147815	96.91309	81939978	
12	ARS-BFGL-NGS-2850	96.96069	81979631	
12	ARS-BFGL-NGS-31505	97.01433	82024309	
12	BTA-87771-no-rs	97.05301	82056537	
12	BTA-100491-no-rs	97.17615	82159124	
12	ARS-BFGL-BAC-15043	97.2	82199690	
12	Hapmap48226-BTA-122391	97.24825	82326530	
12	Hapmap49040-BTA-116557	97.30464	82410180	

12	ARS-BFGL-NGS-12368	97.33155	82450106
12	ARS-BFGL-NGS-114955	97.3558	82486060
12	ARS-BFGL-NGS-113366	97.40856	82564341
12	ARS-BFGL-NGS-118242	97.45414	82631955
12	ARS-BFGL-NGS-38451	97.47422	82661747
12	ARS-BFGL-NGS-84649	97.51508	82722364
12	Hapmap40709-BTA-30902	97.54395	82765192
12	ARS-BFGL-NGS-104210	97.5619	82791816
12	Hapmap40215-BTA-30901	97.57599	82812721
12	Hapmap47240-BTA-30899	97.6298	82892543
12	Hapmap43722-BTA-91004	97.67459	82958992
12	ARS-BFGL-NGS-64884	97.69035	82982368
12	BTA-31284-no-rs	97.71847	83024081
12	ARS-BFGL-NGS-32848	97.73405	83047196
12	Hapmap60748-rs29010135	97.75152	83073114
12	Hapmap40943-BTA-30957	97.80582	83153654
12	ARS-BFGL-NGS-105587	97.85416	83225374
12	ARS-BFGL-NGS-96876	97.88345	83268834
12	ARS-BFGL-NGS-9050	97.93159	83340249
12	Hapmap58356-rs29011128	98.0241	83477477
12	BTA-30947-no-rs	98.04411	83507160
12	BTA-30939-no-rs	98.06734	83541616
12	ARS-BFGL-NGS-4828	98.07	83593529
12	BTA-30932-no-rs	98.07	83614359
12	Hapmap38889-BTA-30928	98.07	83696121
12	ARS-BFGL-NGS-100170	98.07	83739416
12	ARS-BFGL-BAC-15046	98.07	83777475
12	Hapmap43734-BTA-96376	98.07	84040274
12	Hapmap60388-rs29016486	98.07	84095269
12	ARS-BFGL-NGS-118171	98.07	84180733
12	Hapmap54945-rs29009588	98.07	84249881
12	Hapmap42176-BTA-31298	98.07	84466783
12	ARS-BFGL-NGS-108499	98.07	84528778
12	Hapmap24074-BTA-127860	98.07	84559270
12	Hapmap59799-rs29010339	98.07	84646394
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12	ARS-BFGL-NGS-1798	98.07	84743514
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12	Hapmap39822-BTA-31309	98.07	84817834
12	BTA-31315-no-rs	98.07	84840915
12	Hapmap57428-rs29016058	98.07	84882391
12	Hapmap46067-BTA-31318	98.07	85040905
12	BTA-31319-no-rs	98.07	85063382
12	ARS-BFGL-NGS-64378	98.07	85097647
12	ARS-BFGL-NGS-98754	98.07	85134208
12	Hapmap39262-BTA-31326	98.07	85172060
12	BTA-29811-no-rs	98.07	85206411
12	ARS-BFGL-NGS-74771	98.07	85240392
12	BTB-00507211	98.07	85272488
12	Hapmap49567-BTA-31338	98.07	85308799
12	ARS-BFGL-NGS-22481	98.07	85329377
12	Hapmap59661-rs29014560	98.07	85354051
12	ARS-BFGL-NGS-71885	98.07	85378740
12	ARS-BFGL-NGS-62477	98.07	85453952
12	BTB-00507736	98.07	85475400
12	BTA-31359-no-rs	98.07	85500588
12	ARS-BFGL-NGS-117650	98.07	85569048
12	Hapmap48715-BTA-31366	98.07	85595151
12	Hapmap35036-BES10_Contig668_769	98.07	85612852

12	ARS-BFGL-BAC-7384	98.07	85654650	
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12	ARS-BFGL-NGS-83167	98.07725	85718983	
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12	ARS-BFGL-NGS-17075	98.09682	85798850	
12	BTA-31372-no-rs	98.1044	85829746	
12	Hapmap48716-BTA-31374	98.1177	85884022	
12	BTA-31376-no-rs	98.12813	85926556	
12	Hapmap31728-BTA-127926	98.1428	85986433	
12	Hapmap41824-BTA-31393	98.16522	86077889	
12	ARS-BFGL-NGS-53310	98.17426	86114773	
12	ARS-BFGL-NGS-22298	98.18196	86146208	
12	BTA-31397-no-rs	98.40155	86277371	
12	ARS-BFGL-NGS-118932	98.72175	86426256	
12	ARS-BFGL-NGS-115156	98.761	86501602	
12	ARS-BFGL-NGS-106902	98.77587	86535900	
12	ARS-BFGL-NGS-90850	98.78643	86560276	
12	Hapmap49568-BTA-31426	98.81475	86625609	
12	ARS-BFGL-NGS-103773	98.8292	86658942	
12	ARS-BFGL-NGS-31955	98.84018	86684265	
12	ARS-BFGL-NGS-53938	98.85799	86725371	
12	Hapmap59892-rs29026618	98.87834	86772298	
12	ARS-BFGL-NGS-107794	98.90339	86830079	
12	BTB-00507334	98.91373	86853940	
12	Hapmap42507-BTA-31345	98.94892	86935120	
12	BTB-00507405	98.95058	86938949	
12	Hapmap42023-BTA-98950	98.96056	86961976	
12	Hapmap52834-rs29019297	99.02502	87110689	
12	BTB-00507934	99.06081	87193223	
12	Hapmap55090-rs29012630	99.07507	87226140	
12	BTB-00508023	99.08746	87254702	
12	Hapmap51096-BTA-94222	99.09257	87266494	
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13	ARS-BFGL-NGS-32012	0	19472091	
13	ARS-BFGL-NGS-112023	0	19533614	
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13	Hapmap26649-BTA-128159	0	19734286	
13	Hapmap40119-BTA-31847	0	19773655	
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13	BTA-17922-no-rs	0	20371685	
13	Hapmap31057-BTA-115291	0	20457510	
13	Hapmap51397-BTA-115996	0	20491529	
13	BTB-02071807 0	20545039		
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13	BTB-01233700 0	20615821		
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13	BTA-115298-no-rs	0	20687500	
13	ARS-BFGL-NGS-81428	0	20735468	
13	ARS-BFGL-NGS-117931	0	20788173	
13	Hapmap47517-BTA-116140	0.2941561	20891289	
13	Hapmap57706-rs29024881	0.486459	20914286	
13	ARS-BFGL-NGS-117417	1.237827	21004145	
13	Hapmap47895-BTA-24456	1.78634	21069742	
13	Hapmap49926-BTA-24453	2.600153	21167068	
13	ARS-BFGL-NGS-61194	2.929338	21206435	
13	BTA-24488-no-rs	3.184571	21236959	
13	Hapmap30327-BTA-162257	4.299907	21363395	
13	ARS-BFGL-NGS-629	4.93931	21442240	
13	Hapmap38820-BTA-24487	5.846268	21554077	
13	BTA-24483-no-rs	6.22787	21619445	
13	ARS-BFGL-NGS-20264	6.356544	21676028	
13	Hapmap51705-BTA-24478	6.689539	21822462	
13	UA-IFASA-2665	6.751288	21849615	
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13	BTA-24463-no-rs	7.14265	22021716	
13	BTA-24452-no-rs	7.234662	22062178	
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13	Hapmap45137-BTA-85614	7.512271	22184257	
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13	BTA-105118-no-rs	7.653316	22246279	
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13	UA-IFASA-2266	7.865528	22339600	
13	ARS-BFGL-NGS-28633	7.920478	22363763	
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13	Hapmap42135-BTA-21541	8.106049	22445369	
13	ARS-BFGL-NGS-22539	8.565967	22647616	
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13	Hapmap59622-rs29013323	8.763662	22821740
13	ARS-BFGL-NGS-3658	8.795078	22868297
13	BTA-112161-no-rs	8.819693	22904772
13	ARS-BFGL-BAC-11283	8.94	23196342
13	Hapmap58057-rs29012102	9.862864	23452414
13	Hapmap45544-BTA-122351	9.999773	23478182
13	Hapmap39219-BTA-31890	10.27331	23529663
13	ARS-BFGL-NGS-112203	11.5403	23821652
13	ARS-BFGL-NGS-101509	11.67227	23867876
13	ARS-BFGL-NGS-99560	11.83608	23925250
13	ARS-BFGL-NGS-80617	12.29167	24084823
13	ARS-BFGL-NGS-14188	12.54827	24174701
13	ARS-BFGL-NGS-91120	12.62804	24202640
13	ARS-BFGL-NGS-31326	12.8199	24269841
13	ARS-BFGL-NGS-56387	13.06545	24355847
13	ARS-BFGL-NGS-102355	13.2395	24416810
13	ARS-BFGL-BAC-869	13.89286	24645652
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13	Hapmap53835-rs29011344	14.13972	24732116
13	Hapmap39817-BTA-25361	14.28932	24784515
13	ARS-BFGL-NGS-70502	14.50578	24860333
13	ARS-BFGL-BAC-11290	14.76599	24951471
13	ARS-BFGL-NGS-113296	14.885	24993156
13	Hapmap50656-BTA-31918	15.06914	25057651
13	ARS-BFGL-NGS-15781	15.19315	25101088
13	BTA-31912-no-rs	15.30043	25138665
13	ARS-BFGL-NGS-115560	15.63085	25254394
13	ARS-BFGL-NGS-5327	15.75575	25298145
13	Hapmap42181-BTA-31908	15.82764	25323323
13	ARS-BFGL-NGS-104788	15.9068	25351049
13	BTA-05384-rs29019544	16.27375	25486017
13	BTA-31894-no-rs	16.40666	25594852
13	ARS-USMARC-Parent-EF034081-rs29009668	16.42085	25606469
13	Hapmap36096-SCAFFOLD140080_30362	16.42085	25606469
13	Hapmap36338-SCAFFOLD140080_5028	16.45122	25631340
13	ARS-BFGL-NGS-15471	16.47742	25652793
13	ARS-BFGL-NGS-102728	16.51227	25681327
13	ARS-BFGL-NGS-66330	16.54793	25710529
13	ARS-BFGL-NGS-20934	16.57569	25733265
13	UA-IFASA-2685	16.63701	25783475
13	ARS-BFGL-NGS-92202	16.6803	25818921
13	BTA-31928-no-rs	16.70857	25842073
13	Hapmap50657-BTA-31929	16.7465	25873125
13	BTA-31957-no-rs	16.85389	25961066
13	ARS-BFGL-NGS-41845	16.88423	25985907
13	ARS-BFGL-NGS-113966	16.93587	26028188
13	ARS-BFGL-NGS-35376	17.12405	26182286
13	BTA-31976-no-rs	17.26992	26301726
13	Hapmap39018-BTA-31978	17.35368	26370317
13	Hapmap41828-BTA-31980	17.39564	26404674
13	BTA-31991-no-rs	17.63582	26446051
13	ARS-BFGL-NGS-111594	17.98627	26496734
13	ARS-BFGL-NGS-36122	18.0175	26524321
13	ARS-BFGL-NGS-19310	18.11976	26614651
13	BTA-98790-no-rs	18.16482	26654447
13	Hapmap43736-BTA-98788	18.19265	26679032
13	Hapmap39398-BTA-31996	18.22641	26708860
13	ARS-BFGL-NGS-35658	18.28408	26759801

13	BTA-13329-rs29018291	18.32295	26794137	
13	ARS-BFGL-NGS-17725	18.39739	26859883	
13	ARS-BFGL-NGS-14593	18.4232	26882688	
13	Hapmap46978-BTA-32012	18.48483	26937127	
13	BTA-32030-no-rs	18.57156	27013737	
13	BTA-32047-no-rs	18.63989	27074094	
13	Hapmap49957-BTA-32050	18.7135	27139117	
13	Hapmap43153-BTA-112223	19.81338	27359961	
13	Hapmap44402-BTA-73818	19.95461	27398154	
13	Hapmap33016-BTA-143210	20.07281	27430120	
13	Hapmap25132-BTA-96391	20.3468	27504215	
13	Hapmap55095-rs29010810	20.66141	27589301	
13	BTA-26152-no-rs	20.78844	27623653	
13	Hapmap49549-BTA-26157	20.86292	27643794	
13	Hapmap48698-BTA-26145	21.20869	27737305	
13	BTA-26149-no-rs	21.34719	27774761	
13	ARS-BFGL-BAC-11913	21.68615	27911263	
13	ARS-BFGL-NGS-30195	21.88389	28018095	
13	ARS-BFGL-NGS-56660	21.9855	28095457	
13	Hapmap30917-BTA-91510	22.00712	28115879	
13	ARS-BFGL-NGS-79738	22.0431	28149879	
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13	ARS-BFGL-BAC-11918	22.57065	28504163	
13	ARS-BFGL-NGS-78038	22.73123	28598101	
13	ARS-BFGL-NGS-15563	22.83641	28659628	
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13	ARS-BFGL-BAC-11922	23.17837	28859669	
13	Hapmap54619-rs29026745	23.27061	28913623	
13	ARS-BFGL-NGS-108308	23.41672	28999095	
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13	ARS-BFGL-NGS-5135	23.54162	29072163	
13	ARS-BFGL-NGS-49	23.6935	29161012	
13	Hapmap47247-BTA-32061	23.84198	29247870	
13	ARS-BFGL-NGS-19838	23.93161	29300299	
13	ARS-BFGL-NGS-118301	24.13716	29420539	
13	Hapmap42511-BTA-32130	24.21074	29463587	
13	ARS-BFGL-NGS-86864	24.25009	29486605	
13	Hapmap57967-rs29017684	24.33123	29508182	
13	ARS-BFGL-NGS-76821	24.81929	29616303	
13	ARS-BFGL-NGS-113236	24.96084	29647662	
13	Hapmap41181-BTA-120938	25.06539	29670823	
13	BTA-32111-no-rs	25.28	29718368	
13	ARS-BFGL-NGS-84696	25.59937	29789119	
13	Hapmap35392-SCAFFOLD196656_10302		25.74606	29821617
13	ARS-BFGL-BAC-11928	25.83645	29841640	
13	ARS-BFGL-NGS-33422	25.99352	29876435	
13	BTA-06771-rs29021128	26.08979	29897763	
13	Hapmap41720-BTA-101335	27.03971	30108205	
13	ARS-BFGL-NGS-109691	27.29	30197435	
13	ARS-BFGL-NGS-21977	27.29	30235320	
13	ARS-BFGL-NGS-101633	27.71984	30310253	
13	BTA-32135-no-rs	27.84692	30337948	
13	ARS-BFGL-NGS-29647	28.07069	30480475	
13	BTA-32199-no-rs	28.14873	30530185	



13	ARS-BFGL-BAC-11935	28.18235	30551596
13	ARS-BFGL-NGS-55024	28.40839	30713329
13	Hapmap54246-rs29017970	28.62125	30878341
13	BTA-32160-no-rs	28.67622	30920957
13	Hapmap49960-BTA-32159	28.76488	30989687
13	Hapmap60147-rs29013821	28.79735	31014861
13	Hapmap35375-SCAFFOLD206_10369	28.82653	31037485
13	ARS-BFGL-NGS-86040	28.87621	31075993
13	Hapmap24336-BTA-128283	29.0071	31177467
13	ARS-BFGL-NGS-113540	29.17035	31304022
13	ARS-BFGL-NGS-107803	29.2788	31364982
13	ARS-BFGL-NGS-40191	29.39595	31416451
13	BTA-32302-no-rs	29.45421	31442043
13	ARS-BFGL-NGS-36809	29.52954	31475142
13	BTA-18257-no-rs	29.64218	31524626
13	ARS-BFGL-NGS-113714	29.72303	31560145
13	BTA-70648-no-rs	29.77	31580781
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13	ARS-BFGL-NGS-2677	30.10132	31726339
13	ARS-BFGL-BAC-11941	30.15613	31750419
13	ARS-BFGL-BAC-11942	30.23511	31785117
13	Hapmap54575-rs29011158	30.32909	31826409
13	BTA-32267-no-rs	30.38677	31851749
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13	Hapmap39553-BTA-32269	30.58389	31938349
13	BTA-32272-no-rs	30.87013	32064099
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13	Hapmap42040-BTA-103877	31.29199	32394745
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13	Hapmap24688-BTA-153495	31.38615	32497741
13	ARS-BFGL-BAC-13828	31.41702	32531513
13	ARS-BFGL-NGS-112302	31.49413	32615860
13	Hapmap48567-BTA-103893	31.58051	32710351
13	Hapmap42041-BTA-103894	31.63438	32769279
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13	ARS-BFGL-NGS-103507	31.73808	32882712
13	Hapmap31800-BTA-152132	31.77789	32932074
13	ARS-BFGL-NGS-31606	31.81113	32979253
13	ARS-BFGL-NGS-59751	31.92523	33141153
13	BTA-32318-no-rs	31.94192	33166252
13	UA-IFASA-6479	31.95826	33201457
13	BTB-00518743	31.9758	33239258
13	Hapmap40947-BTA-32313	31.99224	33274673
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13	Hapmap52547-rs29026933	32.07616	33455505
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13	ARS-BFGL-NGS-33873	32.46193	33763853
13	ARS-BFGL-NGS-42098	32.68438	33857935
13	ARS-BFGL-NGS-57955	32.79131	33903159
13	ARS-BFGL-NGS-118434	32.9254	33959871
13	BTB-01447452	32.98726	33986035
13	ARS-BFGL-NGS-32007	33.06229	34017769

13	Hapmap51780-BTA-93959	33.13298	34047662
13	Hapmap57166-rs29020401	33.24622	34124325
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13	BTB-01454391	33.5645	34397169
13	ARS-BFGL-NGS-79261	34.09481	34851781
13	Hapmap60259-rs29016362	34.13704	34887980
13	Hapmap42512-BTA-32321	34.16177	34909187
13	ARS-BFGL-NGS-34861	34.24537	34980846
13	ARS-BFGL-BAC-14435	34.2763	35007368
13	ARS-BFGL-NGS-111777	34.30225	35029615
13	ARS-BFGL-NGS-98854	34.40303	35116013
13	ARS-BFGL-NGS-113008	34.44073	35148331
13	ARS-BFGL-NGS-4432	34.57504	35263460
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13	ARS-BFGL-NGS-119227	34.92552	35563916
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13	ARS-BFGL-NGS-24318	35.03885	35661069
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13	ARS-BFGL-NGS-54558	35.1361	35744438
13	Hapmap60951-rs29020538	35.18649	35787638
13	ARS-BFGL-NGS-117085	35.24453	35837395
13	ARS-BFGL-NGS-19915	35.28881	35875350
13	ARS-BFGL-NGS-19638	35.40477	35974760
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13	Hapmap38304-BTA-32098	35.48478	36043347
13	BTB-00517773	35.54453	36079542
13	Hapmap46799-BTA-32094	35.61675	36117082
13	BTB-00517708	35.66736	36143388
13	Hapmap45550-BTA-32092	35.77143	36197476
13	ARS-BFGL-NGS-116536	35.82284	36224197
13	BTA-32083-no-rs	35.9488	36289664
13	BTB-00517668	36.17244	36405903
13	BTB-00517643	36.31509	36480046
13	BTB-01351678	36.41288	36530872
13	ARS-BFGL-NGS-110793	36.50115	36576754
13	ARS-BFGL-NGS-35590	36.59176	36623846
13	ARS-BFGL-NGS-14452	36.7961	36730055
13	ARS-BFGL-NGS-88695	36.98323	36827318
13	BTA-32343-no-rs	37.07734	36876232
13	ARS-BFGL-NGS-35710	37.15799	36918152
13	ARS-BFGL-NGS-107865	37.34142	37013486
13	BTA-32337-no-rs	37.48849	37089930
13	ARS-BFGL-NGS-36852	37.72026	37210394
13	Hapmap44287-BTA-81022	37.89502	37301226
13	ARS-BFGL-NGS-88685	37.95809	37334004
13	ARS-BFGL-NGS-38298	38.14204	37429612
13	BTB-00519631	38.41423	37571088
13	ARS-BFGL-NGS-66410	38.47413	37602219
13	BTA-32371-no-rs	38.64728	37675851
13	BTA-32376-no-rs	38.78148	37725131
13	ARS-BFGL-NGS-24450	38.86934	37757395
13	BTB-00520031	39.01536	37811017
13	ARS-BFGL-NGS-14560	39.16435	37865729

13	ARS-BFGL-NGS-103645	39.38485	37960816
13	BTB-00520509	39.52017	38053109
13	ARS-BFGL-NGS-88501	39.56979	38086947
13	ARS-BFGL-NGS-103989	39.68567	38165980
13	UA-IFASA-9311	39.71628	38186854
13	ARS-BFGL-NGS-111603	39.7617	38217833
13	UA-IFASA-7733	39.82496	38260976
13	ARS-BFGL-NGS-4298	39.86516	38288391
13	BTB-00520329	39.92143	38326767
13	ARS-BFGL-NGS-28202	39.96937	38359460
13	BTB-00520443	40.07318	38430293
13	ARS-BFGL-NGS-31610	40.12063	38462778
13	BTA-32346-no-rs	40.21939	38530393
13	ARS-BFGL-NGS-14089	40.27542	38568755
13	BTB-00519355	40.34789	38618369
13	ARS-BFGL-NGS-118784	40.40375	38656618
13	BTA-32348-no-rs	40.42986	38674487
13	ARS-BFGL-NGS-37672	40.5942	38787006
13	Hapmap55179-rs29024483	40.65755	38830375
13	ARS-BFGL-NGS-20188	40.69883	38858641
13	UA-IFASA-8759	40.73254	38881719
13	ARS-BFGL-NGS-102990	40.82224	38943133
13	ARS-BFGL-NGS-18039	40.93412	39019728
13	BTB-00354852	40.97214	39046771
13	ARS-BFGL-NGS-3607	40.9976	39076246
13	ARS-BFGL-NGS-24069	41.02729	39110625
13	ARS-BFGL-NGS-103784	41.05046	39137454
13	ARS-BFGL-NGS-84653	41.16576	39270967
13	Hapmap52925-rs29019171	41.19243	39301840
13	Hapmap47096-BTA-75138	41.21508	39328066
13	ARS-BFGL-NGS-4854	41.25842	39378251
13	ARS-BFGL-NGS-116070	41.29441	39419924
13	ARS-BFGL-NGS-110611	41.37528	39513558
13	ARS-BFGL-NGS-4010	41.40288	39545522
13	ARS-BFGL-NGS-5494	41.42328	39569134
13	Hapmap41547-BTA-46171	41.45232	39602766
13	ARS-BFGL-NGS-109701	41.48598	39641742
13	ARS-BFGL-NGS-12801	41.63478	39682536
13	ARS-BFGL-BAC-14448	41.77028	39707232
13	Hapmap39199-BTA-32420	41.96056	39741913
13	ARS-BFGL-NGS-22093	42.09377	39766187
13	ARS-BFGL-NGS-23363	42.27851	39799861
13	ARS-BFGL-NGS-65199	42.42688	39826900
13	ARS-BFGL-NGS-8027	42.53414	39846449
13	ARS-BFGL-NGS-108568	43.16633	39961667
13	Hapmap49122-BTA-32454	43.24	40001727
13	ARS-BFGL-NGS-36574	43.24	40031719
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13	ARS-BFGL-NGS-92424	43.24	40263696
13	ARS-BFGL-NGS-87289	43.24	40305153
13	ARS-BFGL-NGS-26331	43.24	40338272
13	ARS-BFGL-NGS-90891	43.24	40386012
13	Hapmap50934-BTA-32439	43.24	40427350
13	ARS-BFGL-NGS-44116	43.24	40491708
13	ARS-BFGL-NGS-91535	43.24	40525851
13	ARS-BFGL-NGS-14594	43.24	40547718
13	UA-IFASA-3757	43.24	40581554
13	ARS-BFGL-NGS-29144	43.24	40606621
13	ARS-BFGL-NGS-27078	43.24	40628125

13	ARS-BFGL-NGS-30012	43.24	40666278
13	ARS-BFGL-NGS-95823	43.24	40722564
13	ARS-BFGL-NGS-21158	43.24	40753080
13	ARS-BFGL-NGS-41919	43.24	40777908
13	ARS-BFGL-NGS-15975	43.24	40815971
13	ARS-BFGL-NGS-37354	43.24	40837170
13	ARS-BFGL-NGS-58346	43.24	40880250
13	BTB-00521804	43.24	40972213
13	Hapmap58773-rs29015694	43.28633	41023312
13	ARS-BFGL-NGS-113071	43.34948	41083814
13	BTA-32481-no-rs	43.37805	41111195
13	Hapmap32533-BTA-123227	43.4013	41133477
13	ARS-BFGL-NGS-60607	43.43391	41164722
13	ARS-BFGL-NGS-116093	43.46646	41195909
13	ARS-BFGL-NGS-113658	43.50831	41236006
13	Hapmap47248-BTA-32461	43.53139	41258124
13	ARS-BFGL-NGS-22137	43.56649	41291761
13	ARS-BFGL-NGS-115482	43.61455	41337809
13	ARS-BFGL-NGS-101382	43.64488	41366870
13	ARS-BFGL-NGS-16279	43.69434	41414256
13	ARS-BFGL-NGS-40188	43.76785	41484694
13	BTA-26412-no-rs	43.79078	41506674
13	ARS-BFGL-NGS-102025	43.81507	41529941
13	ARS-BFGL-NGS-8449	43.96036	41669155
13	BTB-00522444	43.99488	41702235
13	ARS-BFGL-NGS-13176	44.04461	41749885
13	Hapmap47567-BTA-32536	44.09726	41800337
13	Hapmap58859-rs29023610	44.13199	41833607
13	BTA-32538-no-rs	44.17165	41871616
13	ARS-BFGL-NGS-109376	44.25555	41952009
13	ARS-BFGL-NGS-64510	44.32189	42015567
13	ARS-BFGL-NGS-113343	44.35076	42043229
13	Hapmap61089-rs29014590	44.37928	42070556
13	ARS-BFGL-NGS-74106	44.38	42148059
13	ARS-BFGL-NGS-14104	44.38	42192875
13	Hapmap47251-BTA-32677	44.38	42230721
13	ARS-BFGL-NGS-31452	44.38	42257575
13	Hapmap47569-BTA-32680	44.38	42281089
13	BTB-00523176	44.38	42312878
13	ARS-BFGL-NGS-29010	44.44106	42340884
13	ARS-BFGL-NGS-13061	44.48776	42361611
13	ARS-BFGL-NGS-57596	44.57539	42400503
13	ARS-BFGL-NGS-118368	44.63257	42425880
13	Hapmap48292-BTA-32583	44.68302	42448271
13	ARS-BFGL-NGS-12976	44.80656	42503102
13	Hapmap51209-BTA-32563	44.88812	42539299
13	BTA-32556-no-rs	45.05589	42613759
13	ARS-BFGL-NGS-60451	45.16222	42660952
13	ARS-BFGL-NGS-87646	45.26269	42705543
13	Hapmap53498-rs29016352	45.44571	42786775
13	BTA-32552-no-rs	45.51491	42817489
13	ARS-BFGL-NGS-1303	45.68499	42892971
13	ARS-BFGL-NGS-57335	45.7633	42927726
13	ARS-BFGL-NGS-14221	45.85154	42966892
13	BTA-32517-no-rs	45.94757	43009513
13	ARS-BFGL-NGS-71025	46.1823	43113693
13	ARS-BFGL-NGS-100409	46.26991	43152577
13	ARS-BFGL-NGS-111332	46.2851	43159322
13	BTB-00523437	46.64559	43319313

13	Hapmap23870-BTA-128381	46.8904	43427963
13	ARS-BFGL-NGS-94729	47.05534	43501171
13	Hapmap39481-BTA-32742	47.10749	43524316
13	Hapmap41173-BTA-119010	48.10255	43940108
13	ARS-BFGL-NGS-112070	48.25919	44012475
13	BTB-02031137	48.29507	44047940
13	ARS-BFGL-NGS-5872	48.45584	44206849
13	BTA-119014-no-rs	48.56269	44312452
13	BTB-01254653	48.62537	44374407
13	ARS-BFGL-NGS-16373	48.69376	44441998
13	ARS-BFGL-NGS-23974	48.71926	44467210
13	Hapmap53719-rs29024306	48.74564	44493281
13	ARS-BFGL-NGS-1738	48.81211	44558986
13	Hapmap51812-BTA-120943	49.00592	44750541
13	ARS-BFGL-NGS-85920	49.10412	44847602
13	ARS-BFGL-NGS-101595	49.1333	44876436
13	ARS-BFGL-NGS-117153	49.28064	45022063
13	ARS-BFGL-NGS-98086	49.33439	45075195
13	ARS-BFGL-NGS-3126	49.37175	45112117
13	BTB-01376014	49.45342	45192844
13	ARS-BFGL-NGS-73521	49.49533	45234264
13	BTB-01375981	49.53767	45276113
13	ARS-BFGL-NGS-23830	49.58777	45325633
13	ARS-BFGL-NGS-42114	49.60851	45346133
13	ARS-BFGL-NGS-18246	49.64431	45381514
13	ARS-BFGL-NGS-19628	49.66735	45404283
13	BTB-01837504	49.68866	45425348
13	BTB-01837541	49.71797	45454317
13	BTA-99048-no-rs	49.73905	45475151
13	ARS-BFGL-NGS-55042	49.77515	45510831
13	ARS-BFGL-NGS-23971	49.81949	45554661
13	BTB-01505690	49.84732	45582166
13	Hapmap50527-BTA-99049	49.87704	45611537
13	ARS-BFGL-NGS-111182	49.96088	45694404
13	Hapmap40032-BTA-93874	50.06968	45801942
13	ARS-BFGL-NGS-104930	50.11383	45845581
13	BTB-01446083	50.15819	45889425
13	UA-IFASA-4272	50.19518	45925987
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13	ARS-BFGL-NGS-116031	50.27197	46001887
13	BTA-73938-no-rs	50.30928	46038764
13	BTB-00229660	50.35019	46079192
13	BTA-32759-no-rs	50.42191	46150079
13	ARS-BFGL-NGS-41237	50.45341	46181219
13	Hapmap38591-BTA-32800	50.47624	46203780
13	ARS-BFGL-NGS-27628	50.51192	46239050
13	ARS-BFGL-NGS-101531	50.55384	46280482
13	BTB-00525974	50.5897	46315926
13	ARS-BFGL-NGS-115802	50.62807	46353847
13	Hapmap42872-BTA-22214	50.66785	46393168
13	ARS-BFGL-NGS-35887	50.70885	46433697
13	ARS-BFGL-NGS-24766	50.74855	46472930
13	ARS-BFGL-NGS-116062	50.78654	46510476
13	BTB-01318142	50.82018	46543726
13	ARS-BFGL-NGS-57137	50.8539	46577054
13	ARS-BFGL-NGS-810	50.88272	46605539
13	ARS-BFGL-NGS-116977	50.91576	46638190
13	ARS-BFGL-NGS-63599	50.96	46692521
13	ARS-BFGL-NGS-97782	51.00761	46723493

13	ARS-BFGL-NGS-115258	51.22244	46793047	
13	BTA-32813-no-rs	51.23217	46818481	
13	ARS-BFGL-NGS-115345	51.24081	46841024	
13	ARS-BFGL-NGS-2434	51.25611	46881003	
13	ARS-BFGL-NGS-17069	51.26897	46914603	
13	ARS-BFGL-NGS-76076	51.27817	46938643	
13	BTB-01668668	51.29335	46978300	
13	ARS-BFGL-NGS-32053	51.3091	47019441	
13	ARS-BFGL-BAC-15718	51.32747	47067438	
13	Hapmap53245-rs29026914	51.34068	47101933	
13	ARS-BFGL-NGS-107916	51.36578	47167515	
13	ARS-BFGL-NGS-103320	51.38276	47211871	
13	ARS-BFGL-NGS-17702	51.40002	47256972	
13	BTB-00526711	51.41254	47289669	
13	Hapmap39323-BTA-32823	51.44265	47368346	
13	ARS-USMARC-Parent-AY853302-no-rs	51.454		47397987
13	BTB-01997512	51.46079	47415727	
13	BTB-00526221	51.47404	47450332	
13	ARS-BFGL-NGS-80072	51.48733	47485051	
13	ARS-BFGL-NGS-41818	51.51089	47546608	
13	Hapmap49571-BTA-32781	51.52503	47583553	
13	Hapmap48647-BTA-120946	51.544	47633097	
13	BTA-111959-no-rs	51.56199	47680091	
13	BTB-00525539	51.61739	47778392	
13	Hapmap31215-BTA-32775	51.69154	47879982	
13	BTB-00525367	51.71754	47915618	
13	ARS-BFGL-NGS-322	51.77255	47990990	
13	ARS-BFGL-NGS-84799	51.84577	48091318	
13	ARS-BFGL-NGS-38562	51.91005	48179394	
13	BTA-32863-no-rs	51.94968	48233706	
13	Hapmap54365-rs29014934	52.00195	48305310	
13	BTB-01718516	52.01125	48318066	
13	ARS-BFGL-NGS-3711	52.09278	48429772	
13	ARS-BFGL-NGS-35327	52.13381	48485992	
13	BTB-00527671	52.16042	48522460	
13	BTB-00527644	52.18299	48553389	
13	ARS-BFGL-NGS-80055	52.21324	48594834	
13	ARS-BFGL-NGS-70206	52.23355	48622655	
13	ARS-BFGL-NGS-101264	52.27285	48676506	
13	ARS-BFGL-NGS-43431	52.29819	48711228	
13	BTA-115847-no-rs	52.38415	48826815	
13	Hapmap38189-BTA-107106	52.5179	48939117	
13	BTB-01186854	52.5676	48980850	
13	BTB-01186797	52.65384	49053256	
13	BTB-01186688	52.79198	49169253	
13	BTB-01186659	52.83384	49204396	
13	Hapmap41414-BTA-107108	52.84	49300389	
13	ARS-BFGL-BAC-15734	52.84	49369462	
13	Hapmap49962-BTA-32832	52.84	49392089	
13	Hapmap51715-BTA-32830	52.84	49596331	
13	BTB-00527059	52.85703	49624737	
13	BTB-00527031	52.88196	49655217	
13	BTB-00527085	52.91879	49700244	
13	BTB-02018187	52.98947	49786666	
13	BTB-01394423	53.1342	49963611	
13	ARS-BFGL-BAC-15735	53.16745	50004272	
13	ARS-BFGL-NGS-117659	53.18797	50029349	
13	BTB-01301268	53.2162	50063872	
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13	Hapmap51967-BTA-118944	53.9742	50417385
13	BTB-00592919	54.3019	50558651
13	ARS-BFGL-NGS-5832	54.49067	50640029
13	BTB-00592864	54.63409	50701854
13	BTB-01414766	54.84425	50813233
13	BTA-92697-no-rs	54.86254	50910557
13	ARS-BFGL-BAC-15732	54.86998	50950127
13	BTB-01125910	54.89211	51067877
13	BTB-01125985	54.90162	51118474
13	ARS-BFGL-NGS-14463	54.9192	51212055
13	BTB-01497093	54.92714	51254301
13	BTA-98325-no-rs	54.93605	51301669
13	BTA-32905-no-rs	54.966	51415790
13	ARS-BFGL-NGS-2022	55.00509	51513229
13	BTB-01656080	55.04868	51621880
13	BTB-01656089	55.05908	51647814
13	Hapmap25025-BTA-128441	55.09301	51732402
13	ARS-BFGL-NGS-37129	55.10133	51753146
13	BTA-32870-no-rs	55.14126	51852671
13	BTA-32869-no-rs	55.15241	51880463
13	ARS-BFGL-NGS-4795	55.18179	51953691
13	ARS-BFGL-NGS-92753	55.19574	51988460
13	Hapmap33575-BTA-128424	55.22675	52065761
13	BTA-32865-no-rs	55.25919	52098338
13	ARS-BFGL-NGS-7416	55.30095	52133351
13	BTA-32900-no-rs	55.39436	52211663
13	ARS-BFGL-BAC-6011	55.42493	52241778
13	ARS-BFGL-BAC-16372	55.46018	52303334
13	ARS-BFGL-NGS-52456	55.53969	52426064
13	ARS-BFGL-NGS-114228	55.55753	52447531
13	Hapmap41228-BTA-32897	55.627	52531127
13	ARS-BFGL-NGS-35859	55.72734	52708811
13	BTB-01492842	55.7496	52737845
13	BTB-00534695	55.82608	52837622
13	ARS-BFGL-NGS-108401	55.93696	52982280
13	ARS-BFGL-NGS-117488	55.9535	53003864
13	Hapmap47571-BTA-32877	55.98	53091922
13	ARS-BFGL-NGS-34510	55.98	53121791
13	ARS-BFGL-NGS-70740	55.98	53167293
13	BTB-00528306	55.98	53205470
13	ARS-BFGL-NGS-113013	55.98	53245417
13	ARS-BFGL-NGS-68384	55.98	53266833
13	ARS-BFGL-NGS-22053	55.98	53306364
13	ARS-BFGL-NGS-109458	55.98	53347036
13	ARS-BFGL-NGS-75040	56.0386	53550674
13	Hapmap58156-rs29020918	56.0717	53618441
13	UA-IFASA-3974	56.07194	53618942
13	BTA-115023-no-rs	56.09101	53657996
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13	ARS-BFGL-NGS-19155	56.26	54269404
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13	ARS-BFGL-NGS-82210	56.26	54343726
13	ARS-BFGL-BAC-12549	56.26	54397045

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13	ARS-BFGL-NGS-38064	56.26	54496419
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13	ARS-BFGL-NGS-76148	56.32705	54829615
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13	ARS-BFGL-NGS-118051	56.33412	54895475
13	ARS-BFGL-NGS-100973	56.35504	55090558
13	BTB-00529185	56.35947	55131886
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13	ARS-BFGL-NGS-33859	56.37626	55288364
13	ARS-BFGL-NGS-31462	56.38094	55332025
13	Hapmap46742-BTA-01253	56.38925	55409520
13	ARS-BFGL-NGS-116624	56.3935	55449134
13	ARS-BFGL-NGS-22427	56.39849	55495757
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13	Hapmap40246-BTA-32935	56.4111	55613243
13	ARS-BFGL-NGS-104967	56.41423	55642499
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13	ARS-BFGL-NGS-88000	56.42938	55783696
13	ARS-BFGL-NGS-4016	56.43206	55808723
13	ARS-BFGL-NGS-5166	56.43608	55846162
13	ARS-BFGL-NGS-62018	56.4384	55867859
13	ARS-BFGL-NGS-21302	56.44974	55973589
13	ARS-BFGL-NGS-12680	56.46259	56093340
13	ARS-BFGL-NGS-26401	56.46632	56128139
13	ARS-BFGL-NGS-25592	56.4697	56159653
13	Hapmap38200-BTA-120950	56.47295	56190025
13	BTB-00530343	56.47623	56220523
13	ARS-BFGL-NGS-1365	56.47932	56249416
13	Hapmap52629-rs29014811	56.48	56292896
13	BTA-32981-no-rs	56.48	56324282
13	ARS-BFGL-NGS-8160	56.48	56372599
13	BTA-32982-no-rs	56.48	56402912
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13	Hapmap48219-BTA-121969	56.48	56532232
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13	ARS-BFGL-NGS-65704	56.48	56751418
13	UA-IFASA-4705	56.48	56793164
13	BTA-33019-no-rs	56.48	56833592
13	ARS-BFGL-NGS-7349	56.48	56870735
13	BTA-33013-no-rs	56.48	56921813
13	Hapmap43556-BTA-33007	56.48	56967700
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13	ARS-BFGL-NGS-13201	56.48	57051358
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13	ARS-BFGL-NGS-117303	56.51342	57245799
13	ARS-BFGL-NGS-11692	56.52625	57293265
13	ARS-BFGL-BAC-839	56.53362	57320572



13	Hapmap26375-BTA-128510	56.54634	57367631	
13	ARS-BFGL-NGS-19009	56.5676	57446360	
13	ARS-BFGL-NGS-42601	56.58878	57524735	
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13	ARS-BFGL-NGS-109563	56.63604	57693460	
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13	Hapmap49963-BTA-33040	56.95786	58502479	
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13	ARS-BFGL-NGS-433	57.27384	59137860	
13	ARS-BFGL-NGS-352	57.28533	59160965	
13	BTB-01434891	57.30245	59195392	
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13	Hapmap51179-BTA-18117	57.32995	59250696	
13	ARS-BFGL-NGS-8866	57.35036	59291745	
13	ARS-BFGL-BAC-13190	57.36926	59329731	
13	ARS-BFGL-NGS-118168	57.43813	59447893	
13	BTB-00533558	57.46508	59482598	
13	ARS-BFGL-NGS-7266	57.49012	59514859	
13	ARS-BFGL-NGS-26065	57.50777	59537585	
13	ARS-BFGL-NGS-81473	57.52663	59561875	
13	ARS-BFGL-NGS-86646	57.54242	59582211	
13	ARS-BFGL-NGS-15080	57.56871	59616070	
13	BTA-33082-no-rs	57.58593	59638244	
13	Hapmap35523-SCAFFOLD5083_24631		57.60423	59661820
13	ARS-BFGL-NGS-24352	57.65845	59731652	
13	BTA-33087-no-rs	57.67746	59756132	
13	ARS-BFGL-NGS-17398	57.73742	59833357	
13	ARS-BFGL-NGS-36593	57.75372	59854361	
13	ARS-BFGL-NGS-31787	57.80227	59916883	
13	ARS-BFGL-BAC-13199	57.8386	59963672	
13	BTB-00534196	57.86856	60002265	
13	ARS-BFGL-NGS-104825	57.89357	60034473	
13	ARS-BFGL-NGS-66442	57.94007	60094367	
13	BTB-00534445	58.02118	60198826	
13	Hapmap50319-BTA-33109	58.0549	60242262	
13	ARS-BFGL-NGS-103807	58.07362	60266373	

13	BTB-00534589	58.09997	60300299
13	ARS-BFGL-NGS-87825	58.12059	60326861
13	ARS-BFGL-NGS-108965	58.15063	60365544
13	Hapmap50919-BTA-23085	58.20803	60439480
13	ARS-BFGL-NGS-35771	58.23039	60468277
13	ARS-BFGL-NGS-15183	58.26027	60506763
13	ARS-BFGL-NGS-117832	58.30074	60558889
13	ARS-BFGL-NGS-55159	58.32775	60593663
13	Hapmap47572-BTA-33133	58.35291	60626082
13	ARS-BFGL-NGS-59560	58.40342	60691132
13	ARS-BFGL-NGS-7342	58.4216	60714542
13	ARS-BFGL-NGS-116544	58.45423	60756573
13	Hapmap59840-rs29022170	58.47345	60781323
13	ARS-BFGL-NGS-24603	58.51473	60834492
13	Hapmap42184-BTA-33116	58.56322	60896947
13	Hapmap57656-rs29025453	58.61743	60966758
13	Hapmap32610-BTA-151880	58.69383	61065155
13	ARS-BFGL-NGS-116327	58.78474	61182238
13	ARS-BFGL-NGS-99897	58.85989	61279037
13	Hapmap60926-rs29018487	58.89922	61329689
13	Hapmap49573-BTA-33131	59.01768	61493252
13	ARS-BFGL-NGS-22052	59.05263	61559991
13	ARS-BFGL-NGS-17861	59.10792	61665594
13	ARS-BFGL-NGS-117823	59.13	61999652
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13	ARS-BFGL-NGS-41269	59.13	62105224
13	BTA-71452-no-rs	59.13	62141480
13	ARS-BFGL-NGS-34696	59.13	62229802
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13	Hapmap53113-rs29024871	59.13	63204278
13	ARS-BFGL-NGS-109250	59.13	63236944
13	BTA-33168-no-rs	59.13	63257337
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13	ARS-BFGL-NGS-65082	59.13	63323694
13	Hapmap47573-BTA-33163	59.13	63369536
13	ARS-BFGL-NGS-111600	59.13	63391193
13	ARS-BFGL-NGS-107931	59.13	63500701
13	BTA-33327-no-rs	59.21406	63622437
13	BTA-112783-no-rs	59.29728	63715266

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13	ARS-BFGL-NGS-75973	59.34634	63769995
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13	ARS-BFGL-NGS-28233	59.44097	63875561
13	ARS-BFGL-NGS-17925	59.4697	63907611
13	BTA-33314-no-rs	59.49851	63939752
13	UA-IFASA-7527	59.53297	63978193
13	ARS-BFGL-NGS-52892	59.61189	64068392
13	ARS-BFGL-NGS-65699	59.75481	64253779
13	Hapmap54972-rs29014977	59.86732	64399733
13	BTB-00537751	60.17971	64804947
13	ARS-BFGL-NGS-113964	60.20709	64840460
13	BTA-33287-no-rs	60.23391	64875239
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13	Hapmap48297-BTA-33286	60.31268	64977414
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13	Hapmap39743-BTA-33304	60.41404	65108908
13	ARS-BFGL-NGS-100338	60.45713	65164792
13	ARS-BFGL-NGS-790	60.48508	65201054
13	ARS-BFGL-NGS-89409	60.51265	65236809
13	Hapmap54034-rs29026486	60.53025	65259649
13	ARS-BFGL-NGS-13270	60.5799	65324047
13	ARS-BFGL-NGS-7208	60.61464	65369103
13	ARS-BFGL-NGS-65586	60.63812	65399569
13	ARS-BFGL-BAC-898	60.67336	65445282
13	ARS-BFGL-BAC-15132	60.69264	65470288
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13	Hapmap53271-rs29022375	60.87473	65706479
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13	Hapmap53988-rs29024591	61.07196	65855988
13	ARS-BFGL-NGS-70015	61.13541	65899057
13	ARS-BFGL-NGS-65466	61.23	66009719
13	ARS-BFGL-NGS-27792	61.23	66049830
13	Hapmap38307-BTA-33222	61.23	66080035
13	ARS-BFGL-NGS-102293	61.26086	66179152
13	ARS-BFGL-NGS-98521	61.33762	66240806
13	BTA-33234-no-rs	61.40135	66291997
13	ARS-BFGL-NGS-112656	61.45644	66336246
13	ARS-BFGL-NGS-110102	61.49954	66370867
13	ARS-BFGL-NGS-24867	61.53016	66395465
13	BTA-87290-no-rs	61.55055	66415470
13	BTB-01351628	61.57608	66572178
13	ARS-BFGL-NGS-65111	61.58556	66623395
13	ARS-BFGL-NGS-63663	61.5925	66660916
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13	ARS-BFGL-NGS-19222	61.61359	66774859
13	ARS-BFGL-NGS-109197	61.62292	66825292
13	ARS-BFGL-NGS-110385	61.62831	66854427
13	ARS-BFGL-NGS-87385	61.63538	66892611
13	BTB-00539392	61.64153	66925874
13	ARS-BFGL-NGS-803	61.64785	66960026
13	Hapmap47916-BTA-33407	61.65382	66992246
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13	Hapmap40712-BTA-33406	61.67397	67101174
13	ARS-BFGL-NGS-40278	61.67784	67122063
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13	BTA-33373-no-rs	61.70421	67264571

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13	UA-IFASA-7262	61.7305	67406632
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13	ARS-BFGL-NGS-32791	61.74606	67490759
13	ARS-BFGL-NGS-3823	61.78064	67530414
13	ARS-BFGL-NGS-15189	61.825	67557015
13	BTA-33341-no-rs	61.86164	67578984
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13	ARS-BFGL-NGS-112008	62.14632	67749699
13	ARS-BFGL-NGS-32914	62.19797	67780665
13	ARS-BFGL-BAC-13210	62.2473	67810247
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13	BTA-33429-no-rs	62.41047	67919195
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13	ARS-BFGL-NGS-38630	62.46208	68688618
13	ARS-BFGL-NGS-62274	62.49513	68766380
13	Hapmap53793-rs29012197	62.59054	68990855
13	Hapmap55254-rs29014939	62.61234	69042143
13	ARS-BFGL-NGS-85867	62.62446	69070669
13	Hapmap39255-BTA-119464	62.64714	69124045
13	ARS-BFGL-NGS-119823	62.65752	69148458
13	ARS-BFGL-NGS-112094	62.67422	69187742
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13	ARS-BFGL-NGS-112690	62.82392	69539974
13	ARS-BFGL-NGS-8153	62.94361	69645687
13	ARS-BFGL-NGS-103010	62.97462	69670639
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13	ARS-BFGL-NGS-118627	63.38975	70004629
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13	ARS-BFGL-NGS-78493	63.52	70195187
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13	Hapmap25516-BTA-128677	63.86145	70429543
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13	ARS-BFGL-NGS-62707	64.34672	70767104	
13	Hapmap57013-rs29019369	64.37308	70790140	
13	BTA-33523-no-rs	64.45387	70860749	
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13	ARS-BFGL-NGS-95635	64.62077	71006628	
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13	ARS-BFGL-NGS-107717	64.6998	71075689	
13	ARS-BFGL-NGS-31976	64.91244	71212300	
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13	ARS-BFGL-NGS-21649	65.12715	71271729	
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13	ARS-BFGL-NGS-39985	65.30873	71321982	
13	ARS-BFGL-NGS-105763	65.3651	71344736	
13	Hapmap60394-rs29020827	65.38856	71384205	
13	Hapmap54125-rs29019206	65.42297	71442112	
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13	Hapmap47901-BTA-26507	65.48375	71544363	
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13	ARS-BFGL-NGS-23438	67.26102	72297854	
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13	Hapmap54667-rs29016013	67.445	72431970	
13	Hapmap57858-rs29019930	67.49528	72484670	
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13	Hapmap51212-BTA-33858	69.81686	73681829	
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13	Hapmap40517-BTA-33731	69.89404	73782308	
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13	ARS-BFGL-NGS-112625	71.03768	74579327	
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13	BTA-33443-no-rs	71.45768	74821416	
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13	Hapmap31079-BTA-128662	71.69708	75018157	
13	BTB-00750386	71.80422	75122713	
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13	ARS-BFGL-NGS-30791	71.99704	75310875	
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13	ARS-BFGL-NGS-37880	72.439	75742150	
13	ARS-BFGL-BAC-14535	72.58583	75885429	
13	ARS-BFGL-NGS-113805	72.61488	75913775	
13	ARS-BFGL-NGS-119536	72.62959	75928133	
13	ARS-BFGL-NGS-114018	72.67645	75973864	
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13	ARS-BFGL-NGS-31974	72.7832	76078033	
13	ARS-BFGL-NGS-63040	72.80904	76103249	
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13	Hapmap42991-BTA-59734	73.15724	76443044	
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13	ARS-BFGL-NGS-97619	73.26	77572954	
13	ARS-BFGL-NGS-111336	73.26	77612891	
13	ARS-BFGL-NGS-23316	73.38484	77686707	
13	Hapmap35890-SCAFFOLD130234_3209	73.65531	77773492	
13	ARS-BFGL-NGS-25828	74.00118	77884465	
13	BTB-00546606	74.11919	77922330	
13	ARS-BFGL-NGS-62464	74.30389	77981595	
13	Hapmap39400-BTA-33927	74.43532	78023758	
13	ARS-BFGL-NGS-39114	74.50381	78045735	
13	BTB-00547162	74.60248	78078786	
13	Hapmap38488-BTA-33933	74.64379	78115143	
13	ARS-BFGL-NGS-66863	74.6814	78148257	
13	ARS-BFGL-NGS-18031	74.72265	78184563	
13	ARS-BFGL-NGS-69298	74.75671	78214545	
13	ARS-BFGL-NGS-2010	74.82678	78276214	
13	ARS-BFGL-NGS-67913	74.87512	78318767	
13	ARS-BFGL-NGS-107747	74.90289	78343210	
13	ARS-BFGL-NGS-38671	74.94827	78383148	
13	ARS-BFGL-NGS-41546	75.21098	78614384	
13	ARS-BFGL-NGS-95538	75.24541	78644697	
13	BTA-34010-no-rs	75.31142	78705310	
13	ARS-BFGL-NGS-38412	75.32163	78732465	
13	ARS-BFGL-NGS-110851	75.35744	78827600	
13	Hapmap43238-BTA-34009	75.36893	78858126	
13	ARS-BFGL-NGS-115682	75.38523	78901415	
13	Hapmap50322-BTA-34017	75.39536	78928305	
13	ARS-BFGL-NGS-36787	75.41594	78982992	
13	ARS-BFGL-NGS-22500	75.43449	79032255	

13	ARS-BFGL-NGS-36865	75.44197	79052142
13	ARS-BFGL-NGS-112522	75.46942	79125065
13	Hapmap60738-rs29023086	75.48949	79178395
13	ARS-BFGL-NGS-57674	75.49902	79203716
13	ARS-BFGL-NGS-16572	75.5175	79252803
13	ARS-BFGL-NGS-32120	75.54929	79337240
13	ARS-BFGL-NGS-78124	75.56071	79367567
13	ARS-BFGL-NGS-58162	75.57574	79407505
13	ARS-BFGL-NGS-112386	75.61008	79498756
13	ARS-BFGL-NGS-36046	75.61954	79523868
13	UA-IFASA-9680	75.62787	79546003
13	ARS-BFGL-NGS-110409	75.6957	79623291
13	BTB-00548558	75.74678	79664627
13	ARS-BFGL-NGS-57373	75.77776	79689692
13	Hapmap47255-BTA-34035	75.82857	79730805
13	ARS-BFGL-NGS-77284	75.88384	79775537
13	ARS-BFGL-NGS-112395	75.93134	79813972
13	ARS-BFGL-NGS-110534	75.96745	79843180
13	ARS-BFGL-NGS-32633	75.9966	79866776
13	ARS-BFGL-NGS-102517	76.03056	79894254
13	ARS-BFGL-NGS-114069	76.05565	79914560
13	ARS-BFGL-NGS-83944	76.08234	79936156
13	Hapmap38489-BTA-33960	76.11946	79966199
13	ARS-BFGL-NGS-25698	76.15016	79991041
13	ARS-BFGL-NGS-83969	76.17	80026050
13	BTA-33950-no-rs	76.17527	80094921
13	ARS-BFGL-NGS-95398	76.20081	80120883
13	ARS-BFGL-NGS-119925	76.22418	80144645
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13	ARS-BFGL-NGS-69613	76.29325	80214872
13	ARS-BFGL-NGS-36793	76.31711	80239131
13	ARS-BFGL-NGS-35502	76.33865	80261022
13	ARS-BFGL-NGS-53237	76.40562	80329116
13	BTA-33938-no-rs	76.42635	80350185
13	ARS-BFGL-NGS-102859	76.46	80384401
13	Hapmap40789-BTA-68838	76.55973	80485791
13	ARS-BFGL-NGS-82178	76.61398	80540951
13	ARS-BFGL-NGS-112197	76.63657	80563915
13	ARS-BFGL-NGS-113928	76.65632	80583992
13	ARS-BFGL-NGS-61888	76.67786	80605895
13	ARS-BFGL-NGS-118948	76.70174	80630167
13	ARS-BFGL-NGS-113647	76.74718	80676368
13	ARS-BFGL-NGS-118584	76.77881	80708532
13	Hapmap50323-BTA-34046	76.81676	80747113
13	ARS-BFGL-NGS-108939	76.84757	80778443
13	ARS-BFGL-NGS-47826	76.89318	80824810
13	ARS-BFGL-NGS-7071	76.91602	80848032
13	BTA-19908-no-rs	76.99928	80932683
13	ARS-BFGL-BAC-15164	77.02324	80957038
13	Hapmap41120-BTA-99310	77.04613	80980304
13	BTB-01507604	77.0948	81029787
13	Hapmap41707-BTA-99303	77.13422	81069871
13	ARS-BFGL-NGS-67848	77.1739	81113312
13	Hapmap53515-rs29024560	77.2244	81204768
13	ARS-BFGL-NGS-42473	77.25228	81255244
13	ARS-BFGL-NGS-101078	77.27588	81297978
13	ARS-BFGL-NGS-60187	77.30956	81358950
13	ARS-BFGL-NGS-48534	77.32095	81379580



13	BTA-34052-no-rs	77.34212	81417910	
13	ARS-BFGL-NGS-119917	77.36266	81455125	
13	ARS-BFGL-NGS-36728	77.38506	81495674	
13	Hapmap47256-BTA-34049	77.40612	81533808	
13	ARS-BFGL-NGS-96133	77.42944	81576035	
13	BTB-01548576	77.44599	81606009	
13	ARS-BFGL-BAC-15167	77.46367	81638022	
13	BTA-102882-no-rs	77.47895	81665695	
13	Hapmap32551-BTA-128831	77.522	81743652	
13	UA-IFASA-4008	77.53424	81765805	
13	Hapmap61120-rs29012586	77.56093	81814135	
13	ARS-BFGL-NGS-25084	77.58756	81862366	
13	BTA-07889-rs29027551	77.60374	81891671	
13	ARS-BFGL-NGS-72634	77.63394	81946354	
13	ARS-BFGL-NGS-113443	77.6474	81970717	
13	ARS-BFGL-NGS-115121	77.67844	82026919	
13	ARS-BFGL-NGS-56575	77.70878	82081858	
13	ARS-BFGL-NGS-113195	77.72536	82111894	
13	ARS-BFGL-NGS-35781	77.75562	82166673	
13	BTA-34097-no-rs	77.76354	82187858	
13	ARS-BFGL-NGS-25391	77.7701	82212330	
13	ARS-BFGL-NGS-56559	77.77775	82240934	
13	Hapmap35838-SCAFFOLD300165_20480	77.79292		82297637
13	BTA-28181-no-rs	77.80331	82336468	
13	BTA-34123-no-rs	77.81074	82364234	
13	ARS-BFGL-NGS-29997	77.82538	82418960	
13	BTA-34116-no-rs	77.83199	82443688	
13	BTB-01329170	77.83511	82455320	
13	BTA-23977-no-rs	77.83747	82464169	
13	BTB-01329459	77.86298	82559505	
13	ARS-BFGL-NGS-110690	77.87953	82621346	
13	BTB-01852080	77.94635	82871098	
13	Hapmap35901-SCAFFOLD235093_18356	77.96225		82930525
13	BTA-29190-no-rs	77.9696	82957975	
13	ARS-BFGL-NGS-39164	77.97608	82982226	
13	ARS-BFGL-NGS-19988	77.98573	83018263	
13	ARS-BFGL-BAC-15172	77.99423	83050038	
13	ARS-BFGL-NGS-59041	78.01255	83118515	
13	Hapmap43830-BTA-29180	78.0246	83163575	
13	ARS-BFGL-NGS-56163	78.03513	83202886	
13	BTB-01317318	78.05415	83273989	
13	ARS-BFGL-NGS-11232	78.0623	83304462	
13	BTB-01317883	78.09408	83371147	
13	ARS-BFGL-NGS-38171	78.12064	83412973	
13	Hapmap43792-BTA-122725	78.13644	83437845	
13	ARS-BFGL-NGS-27923	78.15472	83466620	
13	ARS-BFGL-NGS-90001	78.21047	83554410	
13	ARS-BFGL-NGS-92904	78.2323	83588785	
13	BTA-102818-no-rs	78.25997	83632355	
13	ARS-BFGL-NGS-13138	78.27917	83662585	
13	BTA-108110-no-rs	78.30123	83697323	
13	ARS-BFGL-NGS-87277	78.31411	83717589	
13	ARS-BFGL-NGS-87042	78.33922	83757126	
13	ARS-BFGL-NGS-114977	78.36491	83797587	
13	Hapmap49355-BTA-87438	78.37	83917405	
13	BTB-01390173	78.37	83951281	
13	Hapmap40029-BTA-87430	78.37	83979616	
13	ARS-BFGL-NGS-54483	78.37	84002346	
13	Hapmap40030-BTA-87432	78.37	84053901	

13	BTB-01390401	78.37	84148909	
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14	Hapmap30381-BTC-005750	0	1463676	
14	Hapmap30383-BTC-005848	0	1489496	
14	BTA-34956-no-rs	0	1514056	
14	ARS-BFGL-NGS-57820	0	1651311	
14	ARS-BFGL-NGS-34135	0	1675278	
14	ARS-BFGL-NGS-94706	0	1696470	
14	ARS-BFGL-NGS-4939	0	1801116	
14	Hapmap52798-ss46526455	0	1923292	
14	ARS-BFGL-NGS-71749	0	1954317	
14	UA-IFASA-6878	0	2002873	
14	ARS-BFGL-NGS-107379	0	2054457	
14	ARS-BFGL-NGS-18365	0	2117455	
14	UA-IFASA-8997	0	2194228	
14	Hapmap25384-BTC-001997	0	2217163	
14	Hapmap24715-BTC-001973	0	2239085	
14	BTA-35941-no-rs	0	2276443	
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14	ARS-BFGL-NGS-26520	0	2386688	
14	Hapmap30374-BTC-002159	0	2468020	
14	Hapmap30086-BTC-002066	0	2524432	
14	Hapmap30646-BTC-002054	0	2553525	
14	ARS-BFGL-NGS-41248	0	2605493	
14	Hapmap29758-BTC-003619	0	2674264	
14	ARS-BFGL-NGS-3122	0	2721633	
14	ARS-BFGL-NGS-103064	0	2754909	
14	Hapmap29888-BTC-003509	0	2803998	
14	ARS-BFGL-NGS-22866	0	2826632	
14	ARS-BFGL-NGS-74058	0	2853845	
14	ARS-BFGL-NGS-18858	0	2909929	
14	Hapmap24717-BTC-002824	0	2951045	
14	Hapmap24718-BTC-002945	0	2985755	
14	ARS-BFGL-NGS-59769	0	3006509	
14	Hapmap30375-BTC-003040	0	3029996	
14	ARS-BFGL-NGS-70821	0	3078843	
14	ARS-BFGL-NGS-32047	0	3117493	
14	ARS-BFGL-NGS-13653	0	3137184	
14	ARS-BFGL-NGS-85419	0	3243897	
14	ARS-BFGL-NGS-67477	0	3275592	
14	Hapmap36620-SCAFFOLD50018_7571	0		3297177
14	UA-IFASA-5815	0	3342470	
14	ARS-BFGL-NGS-10284	0	3433372	
14	ARS-BFGL-NGS-96957	0	3484849	
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14	ARS-BFGL-NGS-117542	0	3664511	
14	ARS-BFGL-BAC-17627	0	3720067	
14	ARS-BFGL-BAC-1511	0	3765019	
14	Hapmap30730-BTC-064822	0	3802542	
14	UA-IFASA-7076	0	3840576	
14	ARS-BFGL-NGS-33248	0	3885798	
14	ARS-BFGL-NGS-4054	0	3918408	
14	UA-IFASA-9288	0	3956956	
14	Hapmap33328-BTC-064942	0	3994681	
14	Hapmap24777-BTC-064977	0	4017201	
14	Hapmap32970-BTC-064990	0	4043743	
14	Hapmap24986-BTC-065021	0	4068825	
14	ARS-BFGL-NGS-22111	0	4103850	
14	UA-IFASA-7269	0	4127413	

14	Hapmap26072-BTC-065132	0	4149375
14	Hapmap26527-BTC-005059	0	4176618
14	BTA-34893-no-rs	0	4209266
14	ARS-BFGL-NGS-113575	0	4240287
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14	ARS-BFGL-NGS-100480	0	4364952
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14	UA-IFASA-5306	0	4468478
14	ARS-BFGL-NGS-54400	0	4493904
14	UA-IFASA-5765	0	4520969
14	ARS-BFGL-NGS-103321	0	4542563
14	ARS-BFGL-BAC-25166	0	4563129
14	Hapmap27703-BTC-053907	0	4583344
14	ARS-BFGL-NGS-84713	0	4606904
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14	Hapmap22783-BTC-068255	0	4737211
14	Hapmap22692-BTC-068210	0	4767039
14	ARS-BFGL-NGS-110993	0	4808166
14	ARS-BFGL-NGS-6792	0	4828557
14	Hapmap23302-BTC-052123	0	4848750
14	ARS-BFGL-NGS-113309	0	4870972
14	Hapmap26077-BTC-067877	0	4904271
14	Hapmap25217-BTC-067767	0	4943963
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14	ARS-BFGL-NGS-56339	0	5129956
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14	Hapmap25663-BTC-005111	0	5535102
14	Hapmap30091-BTC-005211	0	5569639
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14	ARS-BFGL-BAC-24839	0	5631243
14	ARS-BFGL-NGS-114178	0	5651579
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14	ARS-BFGL-BAC-24804	0	5795431
14	Hapmap23454-BTC-046932	0	5831267
14	Hapmap33446-BTC-057195	0	5857075
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14	Hapmap27709-BTC-057052	0	5925382
14	Hapmap51646-BTA-86764	0	5952697
14	ARS-BFGL-NGS-88263	0	5977096
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14	Hapmap30451-BTC-056740	0	6077252
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14	Hapmap23618-BTC-056528	0	6154166
14	Hapmap31643-BTC-056500	0	6170976
14	Hapmap32486-BTC-056478	0	6203679
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14	Hapmap30988-BTC-056315	0	6324728
14	Hapmap31965-BTC-056250	0	6347325
14	ARS-BFGL-BAC-10172	0	6371334
14	ARS-BFGL-NGS-43719	0	6415535
14	Hapmap23915-BTC-050343	0	6456988
14	Hapmap33459-BTC-069647	0	6486431
14	Hapmap23299-BTC-050306	0	6522847
14	UA-IFASA-4560	0	6555671
14	ARS-BFGL-NGS-112858	0	6589274
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14	ARS-BFGL-BAC-1212	0	6642970
14	Hapmap24177-BTC-049968	0	6671964
14	Hapmap51078-BTA-87682	0	6696774
14	ARS-BFGL-NGS-55227	0	6718127
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14	ARS-BFGL-NGS-113706	0	6778397
14	Hapmap32236-BTC-049785	0	6795860
14	Hapmap31941-BTC-049764	0	6819966
14	Hapmap26023-BTC-049737	0	6850767
14	UA-IFASA-6228	0	6859824
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14	Hapmap25183-BTC-049425	0	6910008
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14	Hapmap33635-BTC-049051	0	6988575
14	Hapmap27091-BTC-048823	0	7032597
14	Hapmap23851-BTC-048718	0	7065350
14	ARS-BFGL-NGS-115374	0	7104148
14	Hapmap32472-BTC-048294	0	7127478
14	UA-IFASA-7408	0	7150724
14	Hapmap22665-BTC-070320	0	7175839
14	UA-IFASA-7038	0	7232546
14	Hapmap25718-BTC-048274	0	7293439
14	Hapmap32234-BTC-048199	0	7314869
14	Hapmap25435-BTC-048160	0	7342696
14	Hapmap26283-BTC-048098	0	7371252
14	Hapmap29792-BTC-071523	0	7401787
14	ARS-BFGL-BAC-11513	0	7428315
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14	Hapmap32948-BTC-047992	0	7514610
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14	Hapmap25716-BTC-047850	0	7612098
14	Hapmap25432-BTC-047805	0	7646485
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14	Hapmap23912-BTC-047649	0	7774329
14	Hapmap32911-BTC-006027	0	7810795
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14	Hapmap27714-BTC-062128	0	8207783	
14	Hapmap30140-BTC-046976	0	8241174	
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14	Hapmap22779-BTC-061888	0	8454690	
14	Hapmap26904-BTC-061747	0	8479608	
14	Hapmap26903-BTC-061707	0	8499902	
14	Hapmap22964-BTC-001504	0	8529243	
14	Hapmap27836-BTC-052671	0	8551460	
14	Hapmap30441-BTC-052405	0	8601115	
14	Hapmap26030-BTC-052382	0	8621379	
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14	Hapmap31945-BTC-052169	0	8698150	
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14	ARS-BFGL-NGS-112271	0	9345140	
14	Hapmap41241-BTA-35529	0	9365588	
14	ARS-BFGL-NGS-101419	0	9404594	
14	ARS-BFGL-BAC-18370	0	9426662	
14	UA-IFASA-7842	0	9472109	
14	Hapmap31565-BTC-007750	0	9496612	
14	ARS-BFGL-BAC-20850	0	9542083	
14	Hapmap30097-BTC-007678	0	9577474	
14	Hapmap31564-BTC-007633	0	9606819	
14	Hapmap33415-BTC-007589	0	9639182	
14	ARS-BFGL-NGS-71623	0	9673842	
14	Hapmap24032-BTC-007493	0	9697011	
14	UA-IFASA-5356	0	9740815	
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14	ARS-BFGL-BAC-20798	0	9845820	
14	Hapmap29891-BTC-007427	0	9877646	
14	ARS-BFGL-BAC-2036	0	9906433	
14	ARS-BFGL-NGS-1857	0	9933344	
14	Hapmap24767-BTC-058058	0	9964138	
14	Hapmap22733-BTC-058037	0	9986782	
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14	Hapmap31246-BTC-009295	0	10884437	
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14	ARS-BFGL-NGS-94777	14.75317	21821834	
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14	ARS-BFGL-NGS-42006	17.4775	23122719
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14	ARS-BFGL-NGS-106196	18.55897	23421933
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14	Hapmap36079-SCAFFOLD271848_3858	25.74766		29491023
14	ARS-BFGL-NGS-69925	25.80327	29543761	
14	Hapmap34036-BES10_Contig636_1251	25.90607		29641237
14	BTB-00562416	25.94706	29680105	
14	ARS-BFGL-NGS-27095	25.96374	29695925	
14	ARS-BFGL-NGS-76187	26.00092	29731180	
14	ARS-BFGL-NGS-42822	26.02561	29753276	
14	BTB-00562904	26.11567	29817571	
14	Hapmap42187-BTA-34463	26.17081	29856945	
14	Hapmap32033-BTA-129075	26.22308	29894264	
14	BTA-34455-no-rs	26.29086	29942659	
14	ARS-BFGL-NGS-2627	26.353	29987025	
14	BTB-00562506	26.52994	30113351	
14	Hapmap34907-BES11_Contig197_663	26.60854		30169472
14	Hapmap51213-BTA-34435	26.68051	30220852	
14	BTB-00562611	26.75756	30275865	
14	Hapmap49130-BTA-34437	26.80239	30307874	
14	BTB-00562658	26.83272	30329532	
14	BTA-34452-no-rs	26.94804	30361887	
14	ARS-BFGL-NGS-69534	27.12086	30397178	
14	BTB-00562922	27.37755	30449596	
14	ARS-BFGL-NGS-117404	27.61642	30498375	
14	UA-IFASA-7756	27.87958	30552114	
14	Hapmap60118-rs29024888	28.08975	30595032	
14	BTB-01936090	28.16743	30702073	
14	BTB-00563896	28.18624	30731341	
14	UA-IFASA-7641	28.20732	30764147	
14	BTB-00563836	28.23	30818549	
14	BTA-34529-no-rs	28.29546	30938531	
14	Hapmap59709-rs29021868	28.4182	31014368	
14	ARS-BFGL-BAC-8535	28.49255	31060310	
14	Hapmap38216-BTA-34530	28.56898	31107531	
14	BTB-02062304	28.63601	31148945	
14	UA-IFASA-8520	28.71474	31197593	
14	ARS-BFGL-NGS-93878	28.75057	31219729	
14	UA-IFASA-8640	28.7869	31242174	
14	ARS-BFGL-BAC-10919	28.82829	31267746	
14	Hapmap50960-BTA-43399	28.98536	31322421	
14	Hapmap43764-BTA-111517	29.13825	31369019	
14	ARS-BFGL-NGS-107639	29.28627	31414135	
14	Hapmap39713-BTA-111152	29.3931	31446697	
14	UA-IFASA-7214	29.61361	31513907	
14	ARS-BFGL-NGS-112787	29.69	31557860	
14	Hapmap42549-BTA-42953	29.69	31589988	
14	ARS-BFGL-NGS-113453	29.96366	31684929	
14	UA-IFASA-8615	30.04247	31708200	
14	Hapmap43265-BTA-42290	30.19257	31752520	
14	Hapmap38958-BTA-44398	30.30307	31785149	
14	ARS-BFGL-BAC-10245	30.42024	31819743	
14	Hapmap48764-BTA-44326	30.53449	31853480	
14	ARS-BFGL-NGS-93027	30.94087	31973472	
14	Hapmap49092-BTA-24990	31.03959	32002622	
14	BTB-01335309	31.16637	32040058	
14	UA-IFASA-7790	31.30011	32079547	
14	UA-IFASA-7559	31.39539	32107679	
14	UA-IFASA-6771	31.55122	32153693	
14	ARS-BFGL-NGS-70865	31.6244	32175300	
14	ARS-BFGL-NGS-25050	31.69724	32196809	

14	ARS-BFGL-NGS-26147	31.81515	32231623
14	BTB-01689254	32.96088	32569930
14	ARS-BFGL-NGS-13139	33.03157	32590800
14	ARS-BFGL-BAC-8496	33.27828	32663649
14	Hapmap39646-BTA-34536	33.40382	32700717
14	BTB-00564066	33.79301	32815637
14	Hapmap33993-BES7_Contig58_410	33.91217	32849098
14	BTB-00564013	34.30765	32958490
14	Hapmap49131-BTA-34531	34.55431	33026716
14	BTB-00563966	34.70998	33069775
14	ARS-BFGL-NGS-16611	35.25461	33220425
14	Hapmap31390-BTA-129087	35.57807	33309894
14	ARS-BFGL-NGS-16064	35.71663	33348218
14	BTB-00563522	35.80354	33372261
14	BTB-01728481	36.43843	33604665
14	BTB-01336217	36.5395	33716508
14	Hapmap41433-BTA-114994	37.12789	33832243
14	BTB-01336033	37.38575	33918070
14	Hapmap40239-BTA-20881	37.57587	33999209
14	ARS-BFGL-NGS-113983	37.68629	34046332
14	BTB-01119610	37.81316	34100477
14	ARS-BFGL-NGS-6936	37.92508	34148235
14	ARS-BFGL-NGS-113395	38.02204	34189618
14	BTB-01119200	38.12	34315814
14	UA-IFASA-1789	38.12	34352081
14	BTB-01119513	38.12	34448087
14	UA-IFASA-7535	38.12	34481891
14	ARS-BFGL-BAC-10867	38.12531	34639444
14	UA-IFASA-6678	38.13	34710583
14	Hapmap39744-BTA-33631	38.13	34772856
14	ARS-BFGL-NGS-112227	38.13	34800588
14	BTA-10115-no-rs	38.13	34835330
14	Hapmap39612-BTA-105019	38.13	34930139
14	ARS-BFGL-NGS-38815	38.13	34974815
14	ARS-BFGL-NGS-112748	38.13	35052708
14	Hapmap48747-BTA-40164	38.13	35151359
14	ARS-BFGL-NGS-28034	38.13	35191636
14	Hapmap40715-BTA-34541	38.13	35237496
14	Hapmap33516-BTA-160247	38.26637	35353103
14	BTA-34545-no-rs	38.4202	35430740
14	UA-IFASA-7599	38.50415	35473110
14	ARS-BFGL-NGS-111325	38.66529	35554436
14	ARS-BFGL-NGS-109998	38.73622	35590232
14	ARS-BFGL-BAC-17596	38.84668	35645980
14	Hapmap49579-BTA-34549	38.88071	35663156
14	ARS-BFGL-NGS-102418	39.04242	35744766
14	ARS-BFGL-NGS-104172	39.10244	35775056
14	BTA-34556-no-rs	39.3306	35890205
14	ARS-BFGL-NGS-82063	39.47	35962028
14	Hapmap58889-rs29013774	39.47	36002866
14	ARS-BFGL-NGS-15705	39.47	36026925
14	Hapmap46481-BTA-34558	39.47	36056525
14	ARS-BFGL-BAC-26378	39.47	36092385
14	UA-IFASA-7226	39.69817	36276655
14	BTB-00564573	39.74508	36307035
14	ARS-BFGL-BAC-22135	39.89342	36403095
14	ARS-BFGL-NGS-72344	40.12227	36551303
14	ARS-BFGL-NGS-100925	40.19735	36599923
14	Hapmap48989-BTA-101611	40.25706	36638592

14	Hapmap36024-SCAFFOLD270113_28063	40.28963	36659687
14	Hapmap41742-BTA-107716	40.56466	36837792
14	ARS-BFGL-NGS-37733	41.01956	37132388
14	Hapmap58846-rs29023098	41.10123	37185281
14	BTA-107728-no-rs	41.19681	37247174
14	BTA-107730-no-rs	41.33523	37336815
14	ARS-BFGL-NGS-21659	41.3718	37360495
14	Hapmap41741-BTA-107702	41.41727	37389945
14	Hapmap41415-BTA-107703	41.64132	37535038
14	ARS-BFGL-NGS-48279	41.76531	37615335
14	BTA-107704-no-rs	41.83261	37670101
14	ARS-BFGL-NGS-115675	41.85588	37705809
14	BTA-107712-no-rs	41.91966	37803677
14	ARS-BFGL-NGS-36094	41.9329	37823996
14	Hapmap60098-rs29025705	42.00328	37931988
14	ARS-BFGL-NGS-115475	42.05421	38010153
14	Hapmap51382-BTA-107906	42.07639	38044172
14	Hapmap42791-BTA-107884	42.10995	38095683
14	Hapmap23274-BTA-154879	42.14976	38155245
14	BTB-01190209	42.18472	38203453
14	UA-IFASA-9658	42.2175	38248644
14	ARS-BFGL-NGS-77389	42.28683	38344250
14	ARS-BFGL-NGS-75302	42.34043	38418141
14	BTA-107905-no-rs	42.35698	38440957
14	ARS-BFGL-NGS-118561	42.38128	38474476
14	BTB-01960484	42.39796	38507417
14	ARS-BFGL-NGS-21895	42.4267	38583008
14	BTB-01318881	42.4422	38623751
14	ARS-BFGL-NGS-116375	42.46259	38677366
14	Hapmap40691-BTA-22299	42.47113	38699813
14	ARS-BFGL-NGS-58143	42.52956	38853451
14	BTB-00565216	42.53587	38870040
14	Hapmap42916-BTA-34681	42.5553	38921139
14	ARS-BFGL-NGS-61701	42.59556	39027008
14	BTB-00565112	42.61097	39067537
14	BTB-00565099	42.64328	39152496
14	UA-IFASA-9774	42.66183	39201271
14	BTB-00565043	42.67613	39238858
14	ARS-BFGL-NGS-52422	42.69759	39295276
14	Hapmap55355-rs29015092	42.71259	39334722
14	Hapmap52185-ss46527072	42.72325	39361729
14	Hapmap39402-BTA-34667	42.73583	39390776
14	ARS-BFGL-NGS-118811	42.75713	39439978
14	UA-IFASA-8126	42.76976	39469164
14	ARS-BFGL-NGS-113518	42.78561	39505783
14	BTB-00565373	42.80133	39542087
14	ARS-BFGL-NGS-33776	42.8137	39570666
14	ARS-BFGL-NGS-113271	42.83345	39616301
14	Hapmap50324-BTA-34690	42.84403	39640732
14	ARS-BFGL-NGS-37766	42.86069	39679223
14	BTB-00565647	42.87244	39706371
14	ARS-BFGL-NGS-89809	42.88527	39735994
14	Hapmap41239-BTA-34703	42.89707	39763251
14	ARS-BFGL-BAC-24683	42.9165	39808131
14	UA-IFASA-7216	42.93079	39841164
14	UA-IFASA-7770	42.94359	39870727
14	ARS-BFGL-NGS-113470	42.95944	39907342
14	Hapmap42815-BTA-113824	42.99193	39982391
14	UA-IFASA-5908	43.00568	40014144

14	BTB-01224403	43.02364	40055649	
14	BTA-92749-no-rs	43.05196	40121065	
14	UA-IFASA-6750	43.06121	40142442	
14	BTB-01837238	43.13397	40310509	
14	Hapmap48624-BTA-113819	43.15792	40365841	
14	BTB-01224312	43.17229	40399049	
14	BTB-01985013	43.18587	40430406	
14	ARS-BFGL-NGS-115847	43.19784	40458050	
14	UA-IFASA-5447	43.20921	40484309	
14	ARS-BFGL-BAC-21948	43.21863	40512939	
14	BTA-95925-no-rs	43.2375	40571538	
14	ARS-BFGL-NGS-110022	43.25184	40616098	
14	Hapmap27422-BTA-150703	43.26159	40646356	
14	ARS-BFGL-BAC-22573	43.2738	40684301	
14	Hapmap42739-BTA-95927	43.29534	40751182	
14	Hapmap50929-BTA-28833	43.30653	40785938	
14	UA-IFASA-7391	43.31501	40812291	
14	BTB-01362889	43.32802	40852681	
14	BTA-28834-no-rs	43.34453	40903965	
14	BTB-01387726	43.36003	40967636	
14	BTB-01387806	43.3676	41002817	
14	Hapmap33899-BES9_Contig495_375	43.37522		41038290
14	BTB-01793464	43.38746	41095252	
14	Hapmap53989-rs29024600	43.39471	41128986	
14	BTB-01387869	43.40337	41169239	
14	UA-IFASA-5445	43.40905	41195688	
14	UA-IFASA-6899	43.42818	41284694	
14	ARS-BFGL-BAC-25329	43.44072	41343032	
14	UA-IFASA-6272	43.44738	41374052	
14	BTB-01640837	43.45609	41414578	
14	BTB-00566183	43.47843	41518493	
14	BTA-108009-no-rs	43.50379	41636471	
14	BTB-01670622	43.51	41696729	
14	Hapmap43637-BTA-63823	43.51	41741387	
14	BTB-00983525	43.51	41779482	
14	ARS-BFGL-NGS-84700	43.51	41809705	
14	UA-IFASA-8629	43.51	41836247	
14	BTA-63816-no-rs	43.51	41897082	
14	BTA-63812-no-rs	43.52722	42045113	
14	BTB-00983321	43.54581	42089128	
14	UA-IFASA-8067	43.5824	42175775	
14	Hapmap39578-BTA-63807	43.60703	42234114	
14	ARS-BFGL-NGS-115436	43.63014	42288828	
14	ARS-BFGL-NGS-31699	43.64898	42333424	
14	BTB-00566264	43.72271	42508026	
14	BTB-00566296	43.74059	42550365	
14	BTB-00566332	43.76097	42598616	
14	BTB-00566358	43.80575	42704659	
14	Hapmap39730-BTA-21190	43.82049	42739573	
14	BTB-01495401	43.86343	42841242	
14	Hapmap47456-BTA-98145	43.87807	42875925	
14	BTA-28303-no-rs	43.90936	42950017	
14	Hapmap42427-BTA-110915	43.93982	43022142	
14	Hapmap36191-SCAFFOLD388152_519		44.00378	43242051
14	Hapmap44003-BTA-110897	44.02433	43292662	
14	UA-IFASA-8173	44.04883	43353000	
14	Hapmap42426-BTA-110900	44.08044	43430880	
14	ARS-BFGL-BAC-21432	44.10811	43499031	
14	Hapmap40233-BTA-110906	44.11942	43526891	

14	ARS-BFGL-BAC-21440	44.16739	43645037
14	UA-IFASA-6444	44.20633	43740951
14	ARS-BFGL-BAC-21447	44.27058	43899216
14	UA-IFASA-5403	44.28215	43927711
14	Hapmap56777-ss46526772	44.3033	43979834
14	ARS-BFGL-NGS-111920	44.32499	44029634
14	BTA-18646-no-rs	44.33767	44051654
14	ARS-BFGL-BAC-21453	44.36856	44105320
14	Hapmap43697-BTA-82657	44.38061	44126252
14	BTB-01291445	44.38931	44141376
14	Hapmap52122-rs29020455	44.45452	44254668
14	BTB-01708641	44.47598	44291954
14	Hapmap44419-BTA-88982	44.49409	44323404
14	Hapmap39106-BTA-18647	44.50938	44349969
14	ARS-BFGL-BAC-24005	44.56419	44445182
14	Hapmap47579-BTA-34773	44.61377	44531321
14	ARS-BFGL-NGS-114247	44.64604	44587394
14	ARS-BFGL-NGS-87964	44.68516	44655357
14	UA-IFASA-8273	44.74865	44765662
14	ARS-BFGL-NGS-34858	44.76352	44791496
14	ARS-BFGL-BAC-16996	44.82579	44899685
14	ARS-BFGL-BAC-17008	44.8499	44941560
14	ARS-BFGL-BAC-17010	44.86175	44962156
14	UA-IFASA-8493	44.87384	44983157
14	UA-IFASA-5479	44.88583	45003977
14	UA-IFASA-8766	44.89983	45028309
14	ARS-BFGL-NGS-97078	44.93457	45088662
14	ARS-BFGL-NGS-102494	44.961	45134577
14	ARS-BFGL-BAC-23853	44.98	45174382
14	ARS-BFGL-NGS-2598	44.98	45280979
14	ARS-BFGL-NGS-103608	44.98	45337333
14	BTA-02620-rs29010169	44.98	45601728
14	Hapmap41211-BTA-25540	44.98	45711331
14	UA-IFASA-6858	44.98	45843102
14	Hapmap27155-BTA-129145	44.98	45905109
14	ARS-BFGL-NGS-108612	44.98	45945108
14	Hapmap40519-BTA-34798	44.98	46110191
14	ARS-BFGL-NGS-91939	45.01597	46236763
14	Hapmap29973-BTA-129162	45.04589	46264806
14	ARS-BFGL-NGS-37644	45.08295	46299534
14	ARS-BFGL-NGS-34212	45.26027	46465704
14	Hapmap58451-rs29022181	45.35896	46558182
14	BTB-02010665	45.42	46756507
14	BTB-00567254	45.42	46793521
14	BTB-00567299	45.42	46845423
14	BTB-00567509	45.42	46928407
14	BTB-00567566	45.42	46959846
14	BTA-34836-no-rs	45.42	46991388
14	UA-IFASA-6104	45.42	47013926
14	ARS-BFGL-NGS-59210	45.42	47036013
14	BTB-01709715	45.42	47090795
14	Hapmap60270-ss46526106	45.42	47141282
14	ARS-BFGL-NGS-5105	45.47215	47233282
14	BTB-00567600	45.49357	47267133
14	ARS-BFGL-BAC-22095	45.51369	47298921
14	BTB-01709766	45.5379	47337155
14	BTB-00567426	45.58355	47409281
14	BTB-00567405	45.60231	47438919
14	BTB-00567714	45.66788	47542510



14	Hapmap51718-BTA-34853	45.69884	47591427
14	ARS-BFGL-NGS-29622	45.7138	47615069
14	UA-IFASA-9140	45.73741	47652361
14	Hapmap57857-rs29019922	45.75886	47686253
14	Hapmap40718-BTA-34856	45.81204	47770268
14	ARS-BFGL-BAC-23417	45.84571	47823469
14	ARS-BFGL-NGS-42450	45.86936	47860825
14	UA-IFASA-8217	45.91094	47926524
14	Hapmap55171-rs29024078	45.95542	47996787
14	Hapmap47921-BTA-34862	45.97137	48021988
14	ARS-BFGL-NGS-117012	45.99094	48052916
14	Hapmap47262-BTA-34870	46.03148	48116962
14	Hapmap30339-BTA-34872	46.04978	48145874
14	ARS-BFGL-NGS-69090	46.06	48184967
14	BTB-00568195	46.06	48226460
14	ARS-BFGL-NGS-35081	46.06	48256343
14	UA-IFASA-6995	46.06	48302835
14	UA-IFASA-6822	46.06	48359660
14	ARS-USMARC-Parent-DQ846691-rs29019814	46.06	48380429
14	Hapmap35881-SCAFFOLD20653_10639	46.06	48380429
14	UA-IFASA-8205	46.06	48432458
14	ARS-BFGL-NGS-116920	46.06	48484709
14	ARS-BFGL-NGS-39372	46.06	48535019
14	BTB-00568272	46.06	48572837
14	ARS-BFGL-NGS-24568	46.06493	48614875
14	ARS-BFGL-NGS-45675	46.07744	48679326
14	UA-IFASA-9208	46.08663	48726666
14	ARS-BFGL-NGS-36826	46.09295	48759237
14	Hapmap57707-rs29024913	46.12082	48858864
14	BTB-00568855	46.15011	48890778
14	ARS-BFGL-NGS-58115	46.25111	49000813
14	Hapmap47581-BTA-34891	46.27988	49032157
14	BTB-00569226	46.33238	49089354
14	BTB-01881796	46.35858	49117896
14	BTB-00569421	46.42825	49193808
14	BTB-00569375	46.47108	49240465
14	ARS-BFGL-NGS-30322	46.51564	49289017
14	Hapmap23428-BTA-129227	46.58428	49363794
14	ARS-BFGL-NGS-42341	46.60635	49385228
14	Hapmap58353-rs29010993	46.7028	49450613
14	Hapmap33594-BTA-153900	46.72612	49466422
14	ARS-BFGL-BAC-26470	46.80275	49518377
14	BTB-00569928	47.10702	49724647
14	BTB-00569940	47.15961	49760299
14	BTB-00570090	47.20208	49789098
14	ARS-BFGL-NGS-33585	47.34164	49883707
14	ARS-BFGL-BAC-23887	47.37326	49905143
14	Hapmap51215-BTA-34925	47.44815	49955911
14	BTA-34924-no-rs	47.48532	49981111
14	ARS-BFGL-BAC-25853	47.80003	50194466
14	ARS-BFGL-NGS-101613	47.87519	50245422
14	ARS-BFGL-NGS-57675	47.94139	50290306
14	BTB-01247586	47.99075	50323759
14	UA-IFASA-9445	48.05009	50363994
14	ARS-BFGL-NGS-41131	48.1279	50416742
14	ARS-BFGL-NGS-81817	48.22887	50485190
14	ARS-BFGL-NGS-70879	48.39343	50596757
14	BTB-01223034	48.51679	50680387
14	BTB-01223066	48.6153	50747170

14	Hapmap26094-BTA-113379	48.67004	50784282
14	BTB-01223088	48.71542	50815043
14	ARS-BFGL-BAC-26455	48.80367	50874869
14	BTB-01223219	48.9831	50996515
14	UA-IFASA-6664	49.00335	51010240
14	Hapmap51877-BTA-113405	49.05552	51045612
14	ARS-BFGL-NGS-117407	49.3288	51230877
14	UA-IFASA-8840	49.4704	51326877
14	ARS-BFGL-NGS-113927	49.573	51396430
14	BTA-23975-no-rs	49.66285	51457342
14	ARS-BFGL-NGS-98226	49.70104	51483235
14	ARS-BFGL-BAC-25195	49.74014	51509743
14	Hapmap58389-rs29019587	49.78571	51540635
14	Hapmap44166-BTA-94244	49.83949	51665465
14	Hapmap49905-BTA-20070	49.84546	51696609
14	Hapmap3871-BTA-22527	49.85349	51738442
14	Hapmap43974-BTA-94241	49.86759	51811945
14	UA-IFASA-8223	49.88262	51890266
14	BTB-01212208	49.88903	51923673
14	BTA-111415-no-rs	49.89527	51956205
14	BTA-111311-no-rs	49.91307	52049002
14	BTB-01212565	49.92379	52104865
14	Hapmap43763-BTA-111412	49.93258	52150706
14	BTB-01212623	49.94062	52192581
14	BTB-01212667	49.94521	52216536
14	BTA-111423-no-rs	49.96689	52329529
14	ARS-BFGL-NGS-3879	49.97204	52356373
14	UA-IFASA-5750	49.98337	52415429
14	BTB-01582460	50.04453	52472130
14	UA-IFASA-9549	50.13454	52508673
14	Hapmap39451-BTA-89611	50.2152	52541416
14	Hapmap26168-BTA-152914	50.67542	52728263
14	BTB-00570220	50.79	52855851
14	BTA-10836-no-rs	50.79	52928470
14	BTA-110809-no-rs	50.79	52971237
14	BTA-34930-no-rs	50.79697	53023931
14	ARS-BFGL-BAC-23336	50.86338	53062257
14	ARS-BFGL-BAC-23335	50.89848	53082514
14	ARS-BFGL-NGS-111369	50.94328	53108364
14	Hapmap30781-BTA-129235	51.05706	53174026
14	BTB-00570702	51.18192	53246073
14	BTA-34932-no-rs	51.2754	53300014
14	ARS-BFGL-BAC-1625	51.31845	53324858
14	BTB-00570934	51.39935	53371542
14	ARS-BFGL-NGS-22603	51.47613	53415847
14	ARS-BFGL-NGS-399	51.51237	53436763
14	Hapmap55822-rs29024649	51.5458	53456052
14	UA-IFASA-6966	51.60066	53487707
14	BTA-34937-no-rs	51.63733	53508869
14	ARS-BFGL-BAC-23314	51.67781	53532230
14	BTB-01389085	51.79309	53598754
14	BTA-87274-no-rs	51.90346	53654349
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14	BTB-00571410	52.06539	53717608
14	BTB-00571421	52.14608	53749131
14	BTA-60154-no-rs	52.24632	53788297
14	UA-IFASA-9684	52.3313	53821498
14	BTB-00914431	52.44972	53867758
14	BTA-60160-no-rs	52.52324	53896478

14	Hapmap39850-BTA-60175	52.66935	53953565
14	ARS-BFGL-NGS-115527	52.81071	54008792
14	Hapmap44105-BTA-60185	53.2083	54164119
14	Hapmap55624-rs29014120	53.40419	54240653
14	BTA-60194-no-rs	53.53476	54291662
14	BTB-00915241	53.64936	54323858
14	BTB-01929315	53.91148	54396120
14	Hapmap42994-BTA-60216	54.02777	54428180
14	BTA-90428-no-rs	54.13195	54501131
14	BTB-00488528	54.22795	54586619
14	ARS-BFGL-NGS-86714	54.36345	54707270
14	BTB-00332985	54.44493	54779831
14	ARS-BFGL-BAC-24232	54.52176	54848245
14	BTA-104340-no-rs	54.55281	54875898
14	ARS-BFGL-NGS-1112	54.6331	54947391
14	BTA-104133-no-rs	54.7417	55044098
14	BTB-00333025	54.85158	55141942
14	Hapmap41839-BTA-34994	54.88698	55173462
14	BTB-00572165	54.93843	55219280
14	BTB-01767701	55.08998	55354229
14	BTB-00572080	55.13372	55393184
14	Hapmap49968-BTA-34988	55.16645	55422320
14	Hapmap45925-BTA-34986	55.19812	55450528
14	UA-IFASA-7550	55.2443	55491643
14	BTA-34972-no-rs	55.27264	55516881
14	Hapmap40520-BTA-34969	55.31445	55554111
14	Hapmap27678-BTC-012488	55.59596	55720233
14	Hapmap60925-rs29018458	55.72645	55765964
14	Hapmap23335-BTC-012440	55.7845	55786309
14	Hapmap25482-BTC-069919	55.8566	55811575
14	Hapmap27998-BTC-012291	55.92292	55834821
14	Hapmap31256-BTC-012280	56.13935	55910671
14	Hapmap31576-BTC-012268	56.19971	55931825
14	UA-IFASA-5275	56.26395	55954337
14	Hapmap33279-BTC-012214	56.48278	56031029
14	Hapmap26539-BTC-012199	56.52	56053388
14	Hapmap32435-BTC-012188	56.52	56075435
14	Hapmap23234-BTC-001732	56.60828	56156340
14	Hapmap27809-BTC-001663	56.66711	56180308
14	Hapmap32910-BTC-001623	56.72406	56203511
14	BTA-98030-no-rs	56.77719	56224870
14	Hapmap27679-BTC-012551	56.9847	56301087
14	Hapmap27283-BTC-012613	57.11022	56347190
14	Hapmap25973-BTC-012651	57.1972	56379138
14	Hapmap32919-BTC-012734	57.28026	56409644
14	Hapmap39847-BTA-58540	57.3445	56433241
14	ARS-BFGL-NGS-28664	57.41226	56458130
14	Hapmap27999-BTC-012934	57.52276	56498711
14	ARS-BFGL-BAC-21417	57.60526	56529013
14	Hapmap32698-BTC-013433	57.81552	56606239
14	Hapmap28082-BTC-061087	57.92287	56645668
14	Hapmap38380-BTA-115696	57.98637	56668991
14	Hapmap23726-BTC-051363	58.18161	56761589
14	Hapmap26251-BTC-013832	58.21729	56798275
14	Hapmap31660-BTC-061505	58.25741	56839528
14	Hapmap23195-BTC-061530	58.27787	56860568
14	ARS-BFGL-NGS-35964	58.35664	56941551
14	Hapmap30660-BTC-013711	58.38279	56968450
14	UA-IFASA-9571	58.41545	57002027

14	ARS-BFGL-NGS-82778	58.46406	57052007
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14	BTA-35074-no-rs	58.55526	57145781
14	ARS-BFGL-NGS-67086	58.58717	57178588
14	Hapmap33418-BTC-014033	58.67381	57267677
14	ARS-BFGL-BAC-24084	58.74465	57340508
14	UA-IFASA-5876	58.77073	57367330
14	ARS-BFGL-BAC-24981	58.79466	57391929
14	UA-IFASA-9506	58.82034	57418340
14	Hapmap23721-BTC-014248	58.8402	57438757
14	Hapmap39056-BTA-35097	58.86976	57469150
14	ARS-BFGL-NGS-105323	58.88982	57489773
14	Hapmap25976-BTC-014268	58.91008	57510609
14	Hapmap25154-BTC-014295	58.94053	57541911
14	Hapmap24398-BTC-062971	58.98173	57584280
14	Hapmap24279-BTC-014456	59.00474	57607935
14	Hapmap40314-BTA-35107	59.02749	57631331
14	BTB-00573256	59.06736	57672324
14	Hapmap50325-BTA-35116	59.12165	57728143
14	Hapmap47582-BTA-35120	59.17698	57785040
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14	BTB-01518485	59.58412	58203661
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14	BTA-118172-no-rs	59.71944	58342794
14	Hapmap42465-BTA-18230	59.78322	58408381
14	BTB-01289960	59.81805	58444194
14	BTB-01289984	59.86382	58491253
14	Hapmap33250-BTA-160152	59.91877	58547750
14	BTB-01290167	59.95893	58589050
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14	ARS-BFGL-NGS-18262	60.09525	58848872
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14	BTB-00574588	60.14705	59077923
14	BTB-00752611	60.16105	59139878
14	BTB-00574555	60.18031	59225067
14	UA-IFASA-7897	60.19283	59280392
14	Hapmap49581-BTA-35153	60.19909	59308078
14	BTB-00574325	60.2098	59355486
14	ARS-BFGL-NGS-112566	60.21946	59398170
14	Hapmap46604-BTA-35152	60.23304	59458267
14	ARS-BFGL-BAC-26802	60.2431	59502755
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14	BTB-00573962	60.26008	59577845
14	BTB-00573922	60.26771	59611567
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14	ARS-BFGL-NGS-38912	60.28993	59709849
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14	Hapmap61126-rs29016507	60.3	59770268
14	ARS-BFGL-NGS-103344	60.3	59814118
14	ARS-BFGL-NGS-29298	60.3	59884595
14	ARS-BFGL-NGS-72484	60.3	59929251
14	UA-IFASA-9710	60.3	59967665
14	ARS-BFGL-NGS-16826	60.38553	60181171
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14	ARS-BFGL-NGS-100055	60.46134	60370199
14	BTB-01179239	60.47437	60402699
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14	ARS-BFGL-NGS-117014	61.22259	61213865
14	ARS-BFGL-NGS-14484	61.30544	61299549
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14	ARS-BFGL-NGS-17106	61.34877	61344362
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14	UA-IFASA-7855	61.50601	61506966
14	Hapmap51129-BTA-104919	61.53346	61535356
14	BTB-01075956	61.83623	61848462
14	BTB-02007792	61.87333	61886828
14	ARS-BFGL-NGS-17114	61.91002	61924770
14	ARS-BFGL-NGS-10025	61.94937	61965465
14	UA-IFASA-9447	62.0075	62025584
14	BTB-01075741	62.06155	62081472
14	Hapmap46352-BTA-122434	62.09339	62114406
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14	BTB-01075695	62.22833	62253952
14	BTB-01075462	62.33192	62361079
14	BTA-110835-no-rs	62.38968	62420816
14	ARS-BFGL-NGS-42505	62.44521	62478242
14	ARS-BFGL-NGS-1405	62.47416	62508173
14	ARS-BFGL-BAC-22425	62.51428	62549674
14	ARS-BFGL-BAC-25609	62.63223	62650972
14	ARS-BFGL-BAC-1775	62.70704	62698714
14	Hapmap51719-BTA-35195	62.78936	62751254
14	BTB-00575283	62.85713	62794502
14	Hapmap44372-BTA-35201	62.91415	62830899
14	BTB-01831458	63.00349	62887920
14	UA-IFASA-8956	63.05075	62960995
14	BTB-01048106	63.07633	63004255
14	Hapmap54769-rs29012948	63.10697	63056074
14	Hapmap44367-BTA-30774	63.16597	63155852
14	Hapmap59713-rs29022117	63.18756	63192356
14	ARS-BFGL-NGS-43088	63.20002	63213438
14	Hapmap56993-rs29010230	63.23743	63276703
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14	BTB-00574687	63.31756	63412220
14	UA-IFASA-8564	63.32914	63431800
14	BTB-00575420	63.33904	63448541
14	ARS-BFGL-BAC-22864	63.37552	63510240
14	ARS-BFGL-NGS-24667	63.40478	63559721
14	ARS-BFGL-NGS-108994	63.42145	63587920
14	BTA-13956-no-rs	63.48531	63695912

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14	Hapmap41515-BTA-35210	63.78532	63777156	
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14	ARS-BFGL-NGS-112193	63.85	63869311	
14	ARS-BFGL-NGS-70724	63.85	63894637	
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14	ARS-BFGL-NGS-102343	63.85	64005605	
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14	Hapmap49965-BTA-34335	63.85	64151328	
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14	UA-IFASA-5747	64.66719	64655821	
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14	BTB-00223934	64.94518	64795216	
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14	ARS-BFGL-NGS-41976	65.20789	64968182	
14	BTB-00575969	65.56313	65127051	
14	ARS-BFGL-NGS-112068	65.60945	65147770	
14	BTB-00575779	65.70461	65190322	
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14	Hapmap54010-rs29018717	65.95128	65300637	
14	Hapmap23606-BTA-35239	66.0171	65330073	
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14	ARS-BFGL-NGS-2025	66.28049	65452336	
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14	Hapmap43967-BTA-90526	66.29459	65587374	
14	Hapmap41135-BTA-104993	66.33086	65934535	
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14	Hapmap39823-BTA-35254	66.36449	66256529	
14	Hapmap34587-BES7_Contig136_464	66.36722	66282557	66282557
14	ARS-BFGL-NGS-85411	66.37315	66339300	
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14	ARS-BFGL-NGS-449	66.49	67913507
14	ARS-BFGL-NGS-7028	66.49	67963582
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14	BTA-07375-no-rs	67.6265	68450192
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14	ARS-BFGL-NGS-5344	68.16	69028708
14	ARS-BFGL-NGS-116480	68.16	69058558
14	ARS-BFGL-NGS-31537	68.16	69103642
14	ARS-BFGL-NGS-31823	68.16	69223777
14	ARS-BFGL-NGS-40417	68.16	69254228
14	UA-IFASA-7236	68.16	69288756
14	ARS-BFGL-NGS-74268	68.22626	69356963
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14	ARS-BFGL-BAC-18048	68.40641	69539373
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14	ARS-BFGL-BAC-18590	68.55713	69665346
14	Hapmap23814-BTA-129373	68.61586	69709010
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14	ARS-BFGL-NGS-33182	68.75889	69815341
14	Hapmap59390-rs29023275	68.80737	69851391
14	BTA-35387-no-rs	68.96034	69965123
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14	ARS-BFGL-NGS-114823	69.13468	70094732
14	ARS-BFGL-NGS-32742	69.27	70229610
14	ARS-BFGL-BAC-20439	69.27	70250637
14	ARS-BFGL-BAC-20448	69.27	70271131
14	ARS-BFGL-NGS-113698	69.27	70358208
14	UA-IFASA-8063	69.28745	70387887
14	ARS-BFGL-BAC-19878	69.31382	70413905
14	ARS-BFGL-BAC-23075	69.34058	70440306
14	ARS-BFGL-BAC-23087	69.36703	70466397
14	ARS-BFGL-NGS-38765	69.395	70493990
14	ARS-BFGL-NGS-104630	69.42764	70526189
14	ARS-BFGL-BAC-23102	69.47221	70570164
14	ARS-BFGL-NGS-22314	69.49313	70590801
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14	ARS-BFGL-NGS-104909	69.66811	70763413
14	ARS-BFGL-NGS-112964	69.82833	70921476
14	UA-IFASA-7753	69.93386	71025573
14	UA-IFASA-4785	70.00595	71096693
14	ARS-BFGL-BAC-25658	70.0693	71159186
14	ARS-BFGL-NGS-12338	70.09509	71184631

14	ARS-BFGL-NGS-60194	70.1414	71230312	
14	Hapmap24788-BTA-109508	70.16758	71256147	
14	ARS-BFGL-BAC-26290	70.22616	71313926	
14	Hapmap38877-BTA-110114	70.25985	71347166	
14	ARS-BFGL-NGS-1433	70.34742	71433555	
14	Hapmap51435-BTA-35416	70.38599	71471610	
14	BTA-35414-no-rs	70.48766	71571894	
14	ARS-BFGL-NGS-10628	70.58049	71663481	
14	Hapmap42350-BTA-88359	70.60155	71684246	
14	ARS-BFGL-NGS-60065	70.71253	71793738	
14	ARS-BFGL-NGS-22433	70.76324	71843758	
14	Hapmap34377-BES7_Contig473_1475	70.79675	71876826	
14	Hapmap40247-BTA-35401	70.92113	71999527	
14	Hapmap55664-rs29021594	70.99209	72069520	
14	ARS-BFGL-NGS-31489	71.05186	72106554	
14	ARS-BFGL-NGS-30735	71.25179	72166145	
14	ARS-BFGL-NGS-113708	71.46114	72228540	
14	Hapmap33967-BES2_Contig190_681	71.56594	72259787	
14	ARS-BFGL-NGS-6536	71.9483	72381743	
14	UA-IFASA-7620	72	72447823	
14	ARS-BFGL-NGS-27908	72.01995	72490329	
14	ARS-BFGL-NGS-104221	72.07265	72591421	
14	ARS-BFGL-NGS-109175	72.09864	72641268	
14	ARS-BFGL-NGS-113054	72.12772	72697034	
14	Hapmap58529-rs29018397	72.14038	72721320	
14	Hapmap55935-rs29020117	72.163	72764713	
14	ARS-BFGL-NGS-59070	72.22135	72876629	
14	ARS-BFGL-NGS-118967	72.23368	72900273	
14	ARS-BFGL-NGS-12011	72.26449	72959368	
14	Hapmap47584-BTA-35432	72.28337	72995583	
14	ARS-BFGL-NGS-3717	72.29697	73021667	
14	ARS-BFGL-NGS-69078	72.30827	73043341	
14	ARS-BFGL-NGS-84433	72.3197	73065261	
14	ARS-BFGL-NGS-4650	72.35704	73136888	
14	Hapmap32361-BTA-155525	72.37012	73161964	
14	ARS-BFGL-NGS-68191	72.40134	73221850	
14	ARS-BFGL-NGS-55517	72.41025	73248513	
14	UA-IFASA-7523	72.41116	73285969	
14	Hapmap51548-BTA-109652	72.41408	73406438	
14	UA-IFASA-8643	72.41476	73434867	
14	UA-IFASA-8028	72.41555	73467089	
14	BTA-109670-no-rs	72.4174	73543299	
14	BTA-35465-no-rs	72.59128	73755259	
14	Hapmap55749-rs29016527	72.71712	73832166	
14	BTA-35462-no-rs	72.82438	73897732	
14	ARS-BFGL-NGS-859	72.85934	73919098	
14	Hapmap54796-rs29014519	72.89539	73941140	
14	ARS-BFGL-NGS-12514	72.94602	73979692	
14	UA-IFASA-8614	72.96841	74021731	
14	ARS-BFGL-BAC-21070	72.9802	74043882	
14	Hapmap22793-BTA-129434	73.02	74133189	
14	ARS-BFGL-BAC-1936	73.02	74189329	
14	UA-IFASA-4638	73.02	74227618	
14	UA-IFASA-6765	73.02	74414864	
14	Hapmap41395-BTA-97523	73.02	74496096	
14	Hapmap58449-rs29021974	73.02	74524985	
14	UA-IFASA-9661	73.02	74557688	
14	ARS-BFGL-NGS-25111	73.02	74612084	
14	UA-IFASA-8281	73.10031	74709582	



14	ARS-BFGL-NGS-26876	73.23324	74753039	
14	ARS-BFGL-NGS-66016	73.43453	74814889	
14	Hapmap41843-BTA-35493	73.92635	74955284	
14	Hapmap50329-BTA-35492	73.9894	74991009	
14	ARS-BFGL-BAC-17954	74.06861	75035895	
14	Hapmap35669-SCAFFOLD60962_16617	74.13436	75073151	
14	UA-IFASA-9534	74.17693	75097271	
14	ARS-BFGL-NGS-32340	74.21495	75118814	
14	UA-IFASA-5362	74.26138	75145124	
14	Hapmap52494-rs29015005	74.49839	75279426	
14	UA-IFASA-5711	74.90936	75517287	
14	UA-IFASA-7002	75.00035	75571250	
14	ARS-BFGL-NGS-112763	75.44022	75832105	
14	ARS-BFGL-NGS-81352	75.50555	75870850	
14	BTA-35506-no-rs	75.70904	75991522	
14	UA-IFASA-7973	75.82535	76043148	
14	BTA-35525-no-rs	75.8978	76075224	
14	UA-IFASA-7148	75.9577	76101743	
14	Hapmap58632-rs29009701	76.23602	76217573	
14	ARS-BFGL-NGS-13904	76.65577	76348124	
14	ARS-BFGL-NGS-48450	76.73201	76371840	
14	ARS-BFGL-NGS-65910	76.90654	76426315	
14	ARS-BFGL-NGS-115921	77.0545	76472657	
14	BTA-07770-rs29027433	77.13461	76497740	
14	ARS-BFGL-NGS-57639	77.21874	76524093	
14	Hapmap48725-BTA-35541	77.41412	76585288	
14	ARS-BFGL-BAC-23728	77.44234	76619852	
14	ARS-BFGL-BAC-23729	77.51884	76803498	
14	ARS-BFGL-NGS-31428	77.56878	76923332	
14	Hapmap43459-BTA-111191	77.60062	76999733	
14	Hapmap34937-BES5_Contig538_1040	77.62088	77048373	
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14	BTB-00476800	77.65228	77123730	
14	Hapmap38269-BTA-100162	77.66636	77151172	
14	UA-IFASA-6585	77.68213	77173227	
14	BTA-116518-no-rs	77.71704	77222049	
14	ARS-BFGL-NGS-16144	77.73979	77253862	
14	ARS-BFGL-NGS-113293	77.75446	77274386	
14	ARS-BFGL-NGS-36660	77.7673	77292340	
14	BTB-00640662	77.78371	77315279	
14	BTA-100160-no-rs	77.81727	77362211	
14	Hapmap58971-rs29019251	77.89845	77475737	
14	UA-IFASA-5379	77.93879	77532152	
14	ARS-BFGL-NGS-104297	78.02668	77610030	
14	UA-IFASA-8066	78.08533	77652439	
14	ARS-BFGL-BAC-20948	78.24266	77759163	
14	ARS-BFGL-NGS-118465	78.30701	77797082	
14	BTB-02019179	78.34728	77820814	
14	UA-IFASA-6510	78.40211	77853126	
14	BTB-00576713	78.48172	77900043	
14	BTB-01243104	78.55165	77941252	
14	BTB-01242944	78.67585	78014439	
14	ARS-BFGL-NGS-57555	78.72834	78045374	
14	BTA-54848-no-rs	78.80902	78092917	
14	UA-IFASA-6254	78.85303	78118859	
14	BTB-00853404	78.92852	78163341	
14	ARS-BFGL-NGS-87940	79.18234	78312920	
14	ARS-BFGL-NGS-67896	79.28041	78370714	
14	ARS-BFGL-NGS-112376	79.53745	78522183	

14	ARS-BFGL-NGS-97791	79.70644	78621774		
14	ARS-BFGL-BAC-21000	79.8435	78702548		
14	ARS-BFGL-NGS-65978	80.05302	78826020		
14	UA-IFASA-9421	80.09085	78848315		
14	BTA-121000-no-rs	80.13555	78874656		
14	ARS-BFGL-NGS-116949	80.26224	78949314		
14	UA-IFASA-7371	80.32802	79024799		
14	ARS-BFGL-NGS-61550	80.40866	79178022		
14	Hapmap49969-BTA-35641	80.43245	79223221		
14	ARS-BFGL-NGS-63487	80.4848	79322701		
14	Hapmap35917-SCAFFOLD20441_13371	80.50514	79361350		
14	ARS-BFGL-NGS-75485	80.5209	79391292		
14	Hapmap57268-ss46526401	80.53147	79411382		
14	ARS-BFGL-NGS-75368	80.69167	79715760		
14	ARS-BFGL-NGS-116056	80.71047	79751498		
14	ARS-BFGL-NGS-27929	80.75394	79834107		
14	ARS-BFGL-NGS-106221	80.80404	79929279		
14	ARS-BFGL-BAC-19843	80.81606	79952134		
14	UA-IFASA-9372	80.82677	79972473		
14	UA-IFASA-5839	80.8467	80010342		
14	Hapmap56994-rs29010282	80.88479	80082712		
14	ARS-USMARC-Parent-DQ846692-rs29010281	80.8849	80082923		
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14	UA-IFASA-7735	80.96098	80227476		
14	ARS-BFGL-NGS-32581	81.07985	80453355		
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14	UA-IFASA-8287	81.12732	80543545		
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14	ARS-BFGL-NGS-98209	81.16666	80618301		
14	ARS-BFGL-NGS-20322	81.18177	80647010		
14	Hapmap48305-BTA-35766	81.19971	80681101		
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14	ARS-BFGL-BAC-26936	81.23801	80753881		
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14	ARS-BFGL-BAC-26939	81.29538	80862874		
14	Hapmap42522-BTA-35773	81.3113	80893135		
14	Hapmap39778-BTA-73848	81.35863	80983068		
14	ARS-BFGL-BAC-26943	81.36907	81002892		
14	BTA-73850-no-rs	81.38726	81037465		
14	UA-IFASA-8867	81.39864	81059082		
14	BTA-101419-no-rs	81.43359	81125493		
14	Hapmap29628-BTA-158324	81.46	81197368		
14	BTA-104697-no-rs	81.46	81269892		
14	Hapmap48163-BTA-104696	81.46	81309300		
14	ARS-BFGL-NGS-115716	81.75986	81379203		
14	ARS-BFGL-NGS-113331	81.78442	81414515		
14	Hapmap41128-BTA-101807	81.81895	81464163		
14	UA-IFASA-6020	81.92261	81613196		
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14	BTA-104742-no-rs	82.02779	81764428		
14	ARS-BFGL-BAC-18907	82.09761	81864817		
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14	Hapmap43506-BTA-19779	82.45615	82380321		
14	Hapmap39598-BTA-88198	82.48278	82418605		
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14	BTA-19762-no-rs	82.60666	82596715	
14	BTA-19753-no-rs	82.6242	82625001	
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14	Hapmap39981-BTA-19748	82.65335	82688199	
14	BTA-120049-no-rs	82.67959	82745092	
14	UA-IFASA-8924	82.72468	82842840	
14	Hapmap30325-BTA-161942	82.7597	82918781	
14	Hapmap42413-BTA-106820	82.77183	82945057	
14	Hapmap49062-BTA-122353	82.79344	82991915	
14	ARS-BFGL-NGS-53972	82.80966	83027085	
14	Hapmap38284-BTA-109763	82.83055	83072371	
14	ARS-BFGL-BAC-20862	82.85777	83131368	
14	Hapmap50331-BTA-35792	82.91499	83255426	
14	ARS-BFGL-NGS-104114	82.97854	83393209	
14	ARS-BFGL-NGS-11581	82.99062	83419417	
14	ARS-BFGL-NGS-18046	83.0297	83504134	
14	ARS-BFGL-NGS-58369	83.12772	83716641	
14	Hapmap34730-BES8_Contig464_1373		83.14278	83749297
14	ARS-BFGL-NGS-34916	83.16531	83798136	
14	ARS-BFGL-NGS-65227	83.19072	83853220	
14	BTA-35813-no-rs	83.23313	83945172	
14	UA-IFASA-6257	83.25322	83988724	
14	Hapmap32035-BTA-129548	83.26451	84013201	
14	UA-IFASA-7705	83.29606	84081581	
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14	ARS-BFGL-NGS-118371	83.32553	84145486	
14	Hapmap46990-BTA-35846	83.34647	84190881	
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14	Hapmap57920-rs29025560	83.44101	84387809	
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14	ARS-BFGL-BAC-18466	83.49873	84505345	
14	Hapmap27423-BTA-150958	83.52236	84553454	
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15	ARS-BFGL-BAC-31451	0	3811254	
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15	Hapmap27259-BTA-67640	0	4039184	
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15	ARS-BFGL-NGS-77543	20.82295	27550645
15	BTA-36201-no-rs	20.97965	27617863
15	ARS-BFGL-NGS-39079	21.06588	27654853
15	BTA-36229-no-rs	21.12191	27722302
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15	BTB-00590588	24.63	29767119	
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15	Hapmap31736-BTA-129752	26.35136	30956961
15	ARS-BFGL-NGS-114870	26.4043	30990220
15	BTB-00591691	26.6674	31074059
15	ARS-BFGL-NGS-111168	26.85229	31109854
15	ARS-BFGL-NGS-100946	27.07669	31153294
15	ARS-BFGL-NGS-116192	27.50226	31235679
15	ARS-BFGL-NGS-113705	27.65601	31265444
15	ARS-BFGL-NGS-114993	28.01397	31334742
15	BTA-36320-no-rs	28.14998	31361073
15	ARS-BFGL-NGS-19845	28.25463	31381330
15	BTA-36278-no-rs	28.49948	31412283
15	ARS-BFGL-BAC-34783	28.86	31469036
15	Hapmap58227-rs29016390	28.86	31501499
15	BTB-00590405	28.86784	31527773
15	BTB-00590347	28.94494	31555266
15	ARS-BFGL-NGS-100678	29.07022	31599942
15	Hapmap36165-SCAFFOLD12487_317	29.20343	31647441
15	BTB-01640924	29.39115	31714380
15	ARS-BFGL-NGS-119665	29.47107	31742880
15	BTA-117223-no-rs	29.64144	31803631
15	Hapmap40660-BTA-117222	29.73058	31835418
15	ARS-BFGL-NGS-36604	29.83859	31873933
15	BTB-00592582	29.93471	31908207
15	ARS-BFGL-NGS-111015	30.02511	31947879
15	ARS-BFGL-NGS-102557	30.10551	31984513
15	ARS-BFGL-NGS-14132	30.15378	32006501
15	ARS-BFGL-NGS-43229	30.23766	32044715
15	ARS-BFGL-NGS-20863	30.28896	32068089
15	Hapmap40720-BTA-36401	30.43659	32135352
15	BTB-00591939	30.49881	32163701
15	BTB-00591978	30.58559	32203235
15	Hapmap41518-BTA-36331	30.64414	32229913
15	Hapmap47270-BTA-36334	30.73866	32272973
15	ARS-BFGL-NGS-61408	30.80508	32303235
15	Hapmap44062-BTA-36347	30.89878	32345923
15	BTB-00592110	31.00861	32395964
15	ARS-BFGL-NGS-25525	31.36969	32560472
15	ARS-BFGL-NGS-32346	31.49505	32617589
15	ARS-BFGL-NGS-57210	31.53911	32637662
15	BTB-00592717	31.59369	32662524
15	UA-IFASA-6898	31.70537	32713410
15	Hapmap57622-rs29026935	31.8588	32783311
15	ARS-BFGL-NGS-42229	32.03068	32861621
15	BTA-09703-rs29025860	32.21167	32944079
15	BTA-36518-no-rs	32.29908	32983903
15	Hapmap50943-BTA-36514	32.46991	33061734
15	ARS-BFGL-NGS-15779	32.55286	33099529
15	BTB-00594693	32.62993	33134638
15	Hapmap43560-BTA-36511	32.72292	33179049
15	ARS-BFGL-BAC-35394	32.78917	33219702

15	UA-IFASA-7611	32.83368	33247009	
15	Hapmap24803-BTA-129848	32.93697	33310389	
15	ARS-BFGL-BAC-35396	32.975	33333725	
15	ARS-BFGL-NGS-112072	33.07206	33393282	
15	ARS-BFGL-NGS-106188	33.16039	33447481	
15	ARS-BFGL-NGS-107321	33.21214	33479232	
15	BTB-00594438	33.35323	33565804	
15	BTB-00594449	33.41096	33601229	
15	Hapmap39348-BTA-63139	33.48864	33648898	
15	BTB-00972570	33.53056	33674612	
15	ARS-BFGL-NGS-38840	33.62827	33734568	
15	ARS-BFGL-NGS-110076	33.76727	33819859	
15	Hapmap39409-BTA-46690	33.84475	33867401	
15	ARS-BFGL-NGS-42087	33.97818	33949272	
15	ARS-BFGL-NGS-22671	34.08501	34014822	
15	Hapmap35991-SCAFFOLD92619_934	34.16523	34062399	
15	Hapmap39267-BTA-36676	34.19959	34082620	
15	Hapmap48730-BTA-36688	34.28708	34134098	
15	ARS-BFGL-NGS-116629	34.35041	34171356	
15	BTB-00083647	34.56053	34294990	
15	ARS-BFGL-NGS-106172	34.60686	34322250	
15	Hapmap57840-rs29014510	34.64108	34342385	
15	BTA-36425-no-rs	34.89885	34494054	
15	ARS-BFGL-NGS-26086	34.97564	34539235	
15	ARS-BFGL-NGS-75576	35.01659	34563333	
15	ARS-BFGL-NGS-2713	35.0657	34592225	
15	ARS-BFGL-NGS-98724	35.16002	34647723	
15	ARS-BFGL-NGS-5976	35.21933	34682617	
15	ARS-BFGL-NGS-111085	35.32193	34742988	
15	ARS-BFGL-NGS-116109	35.35643	34763290	
15	BTB-00593773	35.39689	34787093	
15	UA-IFASA-8490	35.43728	34810860	
15	ARS-BFGL-NGS-106696	35.50832	34852656	
15	Hapmap40961-BTA-36457	35.55807	34881930	
15	Hapmap49972-BTA-36466	35.66707	34946066	
15	ARS-BFGL-NGS-118826	35.80231	35025637	
15	ARS-BFGL-NGS-112804	35.8998	35082998	
15	ARS-BFGL-NGS-43617	35.99412	35138494	
15	ARS-BFGL-NGS-70552	36.05977	35177124	
15	ARS-BFGL-NGS-21358	36.1	35200790	
15	ARS-BFGL-NGS-113890	36.18738	35252207	
15	ARS-BFGL-NGS-21421	36.26638	35298693	
15	ARS-BFGL-NGS-99491	36.32514	35333265	
15	BTB-00594404	36.37868	35364770	
15	ARS-BFGL-NGS-25220	36.50173	35437164	
15	ARS-BFGL-NGS-67096	36.57492	35480232	
15	ARS-BFGL-NGS-33711	36.61204	35502071	
15	ARS-BFGL-NGS-84901	36.672	35537347	
15	Hapmap45486-BTA-36522	36.71892	35564956	
15	ARS-BFGL-NGS-20677	36.75893	35588498	
15	ARS-BFGL-NGS-21599	36.79486	35609640	
15	ARS-BFGL-NGS-61425	36.84056	35636528	
15	BTB-00595780	36.88246	35661186	
15	BTA-36664-no-rs	37.10114	35789851	
15	Hapmap40064-BTA-36665	37.24318	35873422	
15	ARS-BFGL-NGS-21827	37.44184	35990313	
15	Hapmap36131-SCAFFOLD280927_4409		37.50337	36026517
15	BTB-01444624	37.61684	36093279	
15	ARS-BFGL-NGS-96067	37.71019	36167239	

15	ARS-BFGL-NGS-103978	37.72328	36187297	
15	BTB-01444568	37.73898	36211338	
15	BTB-01444556	37.76447	36250368	
15	BTB-00595683	37.85104	36382948	
15	Hapmap50831-BTA-95979	37.88175	36429977	
15	ARS-BFGL-NGS-72394	37.98251	36584262	
15	BTB-00595345	38.03064	36657984	
15	Hapmap43561-BTA-36544	38.09438	36755580	
15	BTB-02055779	38.19395	36817688	
15	BTA-36547-no-rs	38.45467	36898323	
15	BTB-01559217	38.51796	36917900	
15	BTB-01559194	38.62457	36950873	
15	BTA-08811-rs29022367	38.77664	36997902	
15	ARS-BFGL-NGS-94491	38.87125	37027165	
15	ARS-BFGL-BAC-27751	38.98872	37063494	
15	ARS-BFGL-NGS-77871	39.13247	37107956	
15	ARS-BFGL-NGS-108699	39.26657	37149431	
15	ARS-BFGL-NGS-101578	39.36569	37180090	
15	BTB-01881881	39.55058	37237274	
15	Hapmap47842-BTA-115522	39.63717	37264052	
15	UA-IFASA-4145	39.78554	37309941	
15	BTB-00483457	39.87713	37338267	
15	ARS-BFGL-NGS-112089	40.43704	37511439	
15	ARS-BFGL-NGS-5811	40.51195	37534610	
15	Hapmap51782-BTA-95909	40.6445	37575605	
15	BTB-01828299	40.93276	37664756	
15	ARS-BFGL-NGS-1582	41.05025	37701094	
15	BTB-01137536	41.13332	37726788	
15	ARS-BFGL-NGS-110172	41.22839	37756194	
15	ARS-BFGL-NGS-19258	41.41621	37814282	
15	Hapmap48533-BTA-95919	41.55336	37856701	
15	Hapmap47787-BTA-95921	41.67078	37893014	
15	ARS-BFGL-NGS-115263	41.85692	37958705	
15	ARS-BFGL-NGS-115514	41.97597	38003134	
15	ARS-USMARC-Parent-DQ866817-no-rs	42.17863	38078775	38078775
15	Hapmap34596-BES7_Contig444_1293	42.17863	38078775	38078775
15	BTA-36568-no-rs	42.23298	38099059	
15	Hapmap43562-BTA-36560	42.38253	38154882	
15	ARS-BFGL-NGS-112725	42.44665	38178809	
15	ARS-BFGL-NGS-115960	42.52224	38251520	
15	Hapmap50456-BTA-72525	42.54645	38281190	
15	ARS-BFGL-NGS-17800	42.58878	38333048	
15	Hapmap42524-BTA-36558	42.62635	38379083	
15	ARS-BFGL-NGS-68382	42.67	38465773	
15	Hapmap50944-BTA-36650	42.67	38519493	
15	Hapmap36832-SCAFFOLD135185_8729	42.67	38543998	
15	Hapmap56622-rs29010987	42.67	38602197	
15	ARS-BFGL-NGS-29995	42.67	38746059	
15	ARS-BFGL-NGS-111723	42.67	38852264	
15	ARS-BFGL-BAC-27764	42.67	38879030	
15	ARS-BFGL-NGS-11846	42.67	39063079	
15	Hapmap47272-BTA-36655	42.67	39096970	
15	BTA-36652-no-rs	42.67	39138352	
15	ARS-BFGL-NGS-118296	42.67	39177823	
15	ARS-BFGL-NGS-65997	42.67	39291329	
15	ARS-BFGL-BAC-27767	42.67	39349430	
15	ARS-BFGL-NGS-23821	42.67	39405517	
15	ARS-BFGL-NGS-115927	42.67	39469268	
15	ARS-BFGL-NGS-25472	42.67	39509533	

15	Hapmap52951-rs29025227	42.67	39568341
15	BTA-36753-no-rs	42.67093	39634819
15	Hapmap51588-BTA-36751	42.67652	39656710
15	Hapmap57927-rs29025966	42.69376	39724096
15	BTA-06215-no-rs	42.69751	39738784
15	ARS-BFGL-NGS-110928	42.73388	39880970
15	ARS-BFGL-NGS-69700	42.76609	40006891
15	ARS-BFGL-NGS-100509	42.78133	40066501
15	Hapmap25520-BTA-129887	42.78748	40090548
15	Hapmap39482-BTA-36746	42.83569	40279014
15	ARS-BFGL-NGS-70745	42.84123	40300680
15	ARS-BFGL-NGS-54901	42.85552	40356568
15	ARS-BFGL-NGS-106750	42.87324	40425845
15	Hapmap43247-BTA-36701	42.88776	40482602
15	ARS-BFGL-BAC-27771	42.89441	40508622
15	ARS-BFGL-BAC-27770	42.90007	40530772
15	ARS-BFGL-BAC-27769	42.90762	40560264
15	ARS-BFGL-NGS-11311	42.92096	40612416
15	ARS-BFGL-NGS-27012	42.94951	40724043
15	ARS-BFGL-NGS-68233	42.95702	40753429
15	ARS-BFGL-NGS-117437	42.96056	40767236
15	BTA-36711-no-rs	42.96402	40780796
15	ARS-BFGL-NGS-34422	42.97791	40835081
15	ARS-BFGL-NGS-18204	42.99181	40889434
15	ARS-BFGL-BAC-27775	43.01929	40996892
15	ARS-BFGL-BAC-27778	43.03129	41043816
15	ARS-BFGL-NGS-106807	43.06355	41169953
15	Hapmap32995-BTA-129924	43.09775	41303655
15	Hapmap50533-BTA-99607	43.10698	41339715
15	Hapmap52590-rs29020878	43.1181	41383202
15	ARS-BFGL-NGS-119103	43.12822	41422783
15	Hapmap50841-BTA-99608	43.13655	41455372
15	BTB-00597065	43.16338	41560256
15	ARS-BFGL-NGS-4138	43.17279	41597038
15	ARS-BFGL-NGS-73907	43.1801	41625621
15	ARS-BFGL-NGS-112839	43.2011	41707747
15	ARS-BFGL-NGS-76827	43.21379	41757348
15	ARS-BFGL-NGS-14433	43.21977	41780731
15	ARS-BFGL-NGS-10880	43.22987	41820227
15	ARS-BFGL-NGS-61890	43.25713	41926810
15	ARS-BFGL-NGS-102795	43.26194	41945602
15	BTA-116788-no-rs	43.2685	41971248
15	ARS-BFGL-NGS-93566	43.28408	42032171
15	Hapmap53315-rs29018478	43.29934	42091844
15	ARS-BFGL-NGS-117790	43.31417	42149820
15	ARS-BFGL-NGS-103485	43.32063	42175075
15	ARS-BFGL-NGS-31299	43.34267	42261266
15	ARS-BFGL-NGS-39654	43.34447	42268297
15	ARS-BFGL-NGS-31785	43.35126	42294852
15	ARS-BFGL-NGS-100136	43.36366	42343306
15	BTA-36785-no-rs	43.38385	42422247
15	ARS-BFGL-NGS-20723	43.39044	42448029
15	BTB-00597170	43.40968	42523274
15	ARS-BFGL-NGS-56238	43.41576	42547043
15	ARS-BFGL-NGS-1951	43.42925	42599781
15	ARS-BFGL-NGS-26362	43.4432	42621937
15	UA-IFASA-9742	43.46752	42657355
15	ARS-BFGL-NGS-117777	43.50776	42715966
15	ARS-BFGL-NGS-32123	43.55465	42784253

15	BTA-36844-no-rs	43.57037	42807152
15	ARS-BFGL-NGS-41246	43.59352	42840871
15	ARS-BFGL-NGS-41288	43.60759	42861362
15	Hapmap49973-BTA-36846	43.62457	42886086
15	ARS-BFGL-NGS-25667	43.64953	42922452
15	BTA-36850-no-rs	43.66815	42949577
15	ARS-BFGL-NGS-118358	43.67583	42960757
15	ARS-BFGL-NGS-118738	43.70258	42999723
15	Hapmap58228-rs29016818	43.73009	43039782
15	BTB-00598897	43.76279	43087409
15	BTB-01398275	43.8112	43157919
15	BTB-01398340	43.85448	43220958
15	Hapmap46538-BTA-88332	43.9146	43308530
15	BTB-01398526	43.9511	43361685
15	BTB-01398494	43.98238	43407244
15	Hapmap38748-BTA-36879	44.00115	43434590
15	ARS-BFGL-NGS-80386	44.04372	43496588
15	ARS-BFGL-NGS-115625	44.07274	43538866
15	BTA-115335-no-rs	44.1074	43589342
15	ARS-BFGL-NGS-81500	44.15073	43652444
15	BTB-00596891	44.18652	43704584
15	Hapmap44232-BTA-36765	44.21513	43746244
15	BTB-00596868	44.2379	43779412
15	BTA-36764-no-rs	44.26158	43813899
15	ARS-BFGL-BAC-27782	44.29207	43858313
15	BTB-00596838	44.30938	43883527
15	ARS-BFGL-NGS-55584	44.32952	43912856
15	ARS-BFGL-NGS-114042	44.3654	43965117
15	ARS-BFGL-NGS-66656	44.38159	43988700
15	Hapmap58050-rs29013793	44.39704	44011208
15	BTA-36920-no-rs	44.42141	44046699
15	ARS-BFGL-NGS-80468	44.4746	44124168
15	Hapmap58193-rs29025337	44.49705	44156866
15	Hapmap38595-BTA-36915	44.59099	44224325
15	ARS-BFGL-NGS-13713	44.63481	44254734
15	ARS-BFGL-NGS-23476	44.68205	44287527
15	ARS-BFGL-NGS-65283	44.78622	44359823
15	ARS-BFGL-NGS-108453	44.84195	44398514
15	ARS-BFGL-NGS-111839	44.86975	44417808
15	BTA-36905-no-rs	44.90617	44443083
15	UA-IFASA-8177	44.94673	44471231
15	ARS-BFGL-NGS-119682	45.0397	44535759
15	BTB-02091993	45.11015	44584661
15	BTB-01784952	45.18523	44636772
15	ARS-BFGL-NGS-32196	45.36597	44762224
15	ARS-BFGL-NGS-88118	45.43227	44808240
15	ARS-BFGL-NGS-107315	45.49368	44850860
15	ARS-BFGL-NGS-7830	45.55297	44892011
15	BTA-122029-no-rs	45.58804	44916353
15	ARS-BFGL-NGS-118098	45.62631	44942917
15	BTB-01120372	45.66822	44972007
15	BTB-01120359	45.70713	44999012
15	ARS-BFGL-NGS-24309	45.77755	45047891
15	ARS-BFGL-NGS-93495	45.85965	45104876
15	ARS-BFGL-NGS-113640	45.90173	45134081
15	BTB-02069420	46.05608	45241208
15	ARS-BFGL-NGS-109679	46.16133	45314266
15	BTB-01926509	46.20658	45363793
15	Hapmap26687-BTA-145356	46.23806	45420078



15	ARS-BFGL-NGS-39267	46.27135	45479580
15	ARS-BFGL-NGS-20473	46.31	45634800
15	Hapmap57286-ss46526482	46.31	45667482
15	ARS-BFGL-NGS-77202	46.31	45714137
15	BTA-88657-no-rs	46.31	45743620
15	ARS-BFGL-NGS-13209	46.31	45767168
15	Hapmap41246-BTA-36951	46.31	45788227
15	ARS-BFGL-NGS-18693	46.31	45815706
15	ARS-BFGL-NGS-101151	46.31	45842102
15	ARS-BFGL-NGS-25066	46.41127	45915821
15	ARS-BFGL-NGS-22122	46.49453	45968445
15	ARS-BFGL-NGS-10087	46.54897	46002857
15	BTB-01505047	46.59677	46033074
15	ARS-BFGL-NGS-72108	46.63766	46058920
15	ARS-BFGL-BAC-19395	46.87432	46208504
15	BTB-01459155	46.92704	46241828
15	ARS-BFGL-NGS-67885	47.02634	46304593
15	ARS-BFGL-NGS-29801	47.23466	46436262
15	Hapmap49528-BTA-21221	47.24615	46443525
15	BTB-02052107	47.27276	46460348
15	BTA-109760-no-rs	47.32768	46495060
15	BTB-01926941	47.97706	46906029
15	ARS-BFGL-NGS-19465	48.15168	47041396
15	ARS-BFGL-NGS-108569	48.20847	47085423
15	BTB-00599376	48.23964	47109587
15	ARS-BFGL-NGS-90546	48.2727	47135215
15	ARS-BFGL-NGS-114458	48.32555	47176194
15	Hapmap23956-BTA-36867	48.35159	47196374
15	ARS-BFGL-NGS-107299	48.39883	47232996
15	ARS-BFGL-NGS-110736	48.4424	47266773
15	ARS-BFGL-BAC-33541	48.49335	47336499
15	BTB-01551877	48.53341	47403843
15	BTB-01551968	48.54851	47429234
15	Hapmap50337-BTA-37006	48.58717	47494237
15	ARS-BFGL-NGS-27623	48.60413	47522748
15	BTB-00519289	48.6294	47565242
15	BTB-01793600	48.65338	47605562
15	BTB-01793542	48.67503	47641955
15	ARS-BFGL-NGS-27025	48.73277	47739031
15	ARS-BFGL-NGS-2728	48.75724	47780178
15	Hapmap55024-rs29015792	48.92879	48068620
15	BTB-00825831	49.0303	48239279
15	BTB-01372515	49.09453	48347277
15	BTA-29693-no-rs	49.10886	48371375
15	BTB-01778401	49.13838	48420999
15	Hapmap44055-BTA-29694	49.20608	48534829
15	BTB-01372864	49.22619	48568641
15	ARS-BFGL-NGS-8104	49.24846	48606085
15	ARS-BFGL-NGS-4169	49.26192	48628725
15	BTB-00602186	49.27808	48655891
15	ARS-BFGL-NGS-67071	49.29725	48688111
15	BTA-26142-no-rs	49.31294	48714496
15	Hapmap44373-BTA-36964	49.35836	48790861
15	ARS-BFGL-BAC-19924	49.42641	48905274
15	Hapmap48733-BTA-36980	49.44509	48936679
15	ARS-BFGL-BAC-20572	49.52845	49076839
15	ARS-BFGL-BAC-21163	49.55273	49117674
15	ARS-BFGL-BAC-21165	49.58365	49169653
15	ARS-BFGL-BAC-19376	49.6877	49344597

15	BTB-01372190	49.89098	49686379	
15	BTB-01465034	50.0286	49987359	
15	Hapmap33953-BES4_Contig513_1142	50.10354		50094103
15	ARS-BFGL-NGS-102432	50.14	50176540	
15	ARS-BFGL-NGS-23589	50.14	50222093	
15	BTB-01928934	50.14	50270235	
15	BTB-01501127	50.14	50485308	
15	BTB-01371672	50.14	50566485	
15	BTB-01873927	50.14	50779264	
15	Hapmap50947-BTA-37011	50.14	50927481	
15	Hapmap61092-rs29026735	50.26312	50976808	
15	ARS-BFGL-NGS-77636	50.37594	51019052	
15	ARS-BFGL-NGS-38049	50.43542	51041325	
15	ARS-BFGL-NGS-11811	51.211	51342624	
15	BTB-00603671	51.25654	51375688	
15	BTB-00603655	51.30729	51412532	
15	Hapmap49975-BTA-37023	51.37639	51462696	
15	BTA-37062-no-rs	51.46719	51528617	
15	ARS-BFGL-BAC-19403	51.75803	51828442	
15	ARS-BFGL-NGS-59463	51.78145	51853820	
15	BTA-117812-no-rs	51.82647	51902597	
15	BTA-114838-no-rs	51.87683	51957162	
15	BTB-00604291	51.94081	52026483	
15	ARS-BFGL-NGS-8824	51.97984	52068769	
15	BTB-00604223	52.00699	52098193	
15	BTB-00604170	52.0376	52131353	
15	ARS-BFGL-NGS-80211	52.18459	52290626	
15	UA-IFASA-7131	52.20376	52311393	
15	BTA-36897-no-rs	52.23204	52342031	
15	BTB-00600805	52.2999	52415557	
15	ARS-BFGL-NGS-5022	52.32318	52440792	
15	ARS-BFGL-NGS-73444	52.34636	52465901	
15	ARS-BFGL-NGS-1186	52.38832	52511359	
15	BTB-00600564	52.42125	52547046	
15	ARS-BFGL-NGS-114583	52.49278	52624549	
15	ARS-BFGL-NGS-5740	52.52618	52660739	
15	BTA-36883-no-rs	52.58751	52727193	
15	ARS-BFGL-NGS-59605	52.62034	52762755	
15	ARS-BFGL-NGS-44311	52.65435	52799618	
15	ARS-BFGL-BAC-19412	52.69902	52848012	
15	BTB-00600391	52.72484	52875986	
15	BTB-00600374	52.75652	52910307	
15	Hapmap41245-BTA-36880	52.82317	52982531	
15	ARS-BFGL-NGS-59460	52.87791	53041839	
15	ARS-BFGL-NGS-110461	52.90627	53072568	
15	ARS-BFGL-NGS-100143	52.96711	53138487	
15	ARS-BFGL-NGS-107234	52.99342	53166998	
15	ARS-BFGL-NGS-40602	53.07075	53250782	
15	BTA-37070-no-rs	53.12854	53313399	
15	Hapmap32796-BTA-130010	53.18294	53372343	
15	Hapmap50948-BTA-37067	53.2634	53459520	
15	ARS-BFGL-NGS-101040	53.3016	53500910	
15	ARS-BFGL-NGS-61456	53.34584	53554378	
15	ARS-BFGL-NGS-110365	53.36172	53586591	
15	Hapmap35547-SCAFFOLD316738_25851	53.37942		53622495
15	ARS-BFGL-NGS-37966	53.40364	53671639	
15	Hapmap50949-BTA-37419	53.42109	53707042	
15	ARS-BFGL-NGS-78659	53.43414	53733504	
15	Hapmap60878-rs29012474	53.44617	53757917	

15	Hapmap43128-BTA-105550	53.46745	53801075	
15	ARS-BFGL-BAC-19418	53.59767	54065284	
15	ARS-BFGL-BAC-19419	53.62853	54127887	
15	ARS-BFGL-NGS-4613	53.64962	54170684	
15	Hapmap52074-ss46527004	53.66362	54199080	
15	Hapmap35699-UCP3_119F1-SNP1	53.67339	54218907	
15	ARS-BFGL-NGS-54493	53.693	54258688	
15	Hapmap40723-BTA-37075	53.7143	54301900	
15	BTB-00605195	53.74579	54365783	
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15	UA-IFASA-5174	53.81069	54497454	
15	Hapmap55177-rs29024436	53.84081	54558563	
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15	ARS-BFGL-NGS-40224	53.86993	54617640	
15	Hapmap41247-BTA-37094	53.90396	54686691	
15	ARS-BFGL-NGS-37822	53.92369	54726718	
15	ARS-BFGL-NGS-17983	53.94454	54769019	
15	ARS-BFGL-NGS-19286	53.96163	54803685	
15	BTB-00338107	54.0083	54898376	
15	ARS-BFGL-NGS-111296	54.02866	54939673	
15	BTA-80846-no-rs	54.05602	54995188	
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15	ARS-BFGL-NGS-90072	54.24827	55206099	
15	BTA-37105-no-rs	54.31861	55254553	
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15	ARS-BFGL-NGS-30928	54.42665	55378514	
15	ARS-BFGL-NGS-117345	54.47202	55430576	
15	ARS-BFGL-NGS-25439	54.49477	55456676	
15	ARS-BFGL-NGS-68607	54.52234	55488319	
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15	ARS-BFGL-NGS-31679	54.61199	55591183	
15	UA-IFASA-5843	54.65689	55642700	
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15	Hapmap51105-BTA-99226	55.77581	56072487	
15	BTB-01506184	55.87035	56098230	
15	Hapmap34185-BES7_Contig323_940		56.00767	56135629
15	BTA-95397-no-rs	56.41454	56246427	
15	Hapmap32097-BTA-150519	56.47767	56302387	
15	ARS-BFGL-NGS-18481	56.50291	56353164	
15	ARS-BFGL-NGS-103542	56.51788	56383289	
15	ARS-BFGL-NGS-41239	56.56702	56482148	
15	ARS-BFGL-NGS-39553	56.77154	56571496	
15	Hapmap42706-BTA-85276	57.45988	56663853	
15	BTA-32359-no-rs	57.85313	56716615	
15	ARS-BFGL-NGS-58337	58.34471	56782573	
15	ARS-BFGL-NGS-48903	58.71439	56842162	
15	ARS-BFGL-NGS-19206	58.7421	56865112	
15	ARS-BFGL-NGS-67343	58.82624	56934789	
15	ARS-BFGL-NGS-76542	58.90264	56998064	
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15	BTB-00606070	59.1222	57179894
15	BTA-37116-no-rs	59.18102	57228610
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15	ARS-BFGL-NGS-39731	59.24865	57284621
15	Hapmap58872-ss46526606	59.28326	57313281
15	ARS-BFGL-NGS-27017	59.30815	57333896
15	ARS-BFGL-NGS-62049	59.39817	57408444
15	ARS-BFGL-BAC-19997	59.4295	57434389
15	Hapmap49069-BTA-17164	59.47317	57470559
15	ARS-BFGL-BAC-19996	59.57034	57537540
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15	Hapmap27950-BTA-130038	60.23341	57938462
15	UA-IFASA-9071	60.26	57977339
15	Hapmap50832-BTA-96262	60.26	58001797
15	Hapmap39958-BTA-96258	60.26	58050245
15	BTA-96265-no-rs	60.26	58146005
15	BTB-01725709	60.26447	58202197
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15	Hapmap42158-BTA-26259	60.64645	58361289
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15	ARS-BFGL-NGS-30515	61.48338	58709858
15	BTA-37177-no-rs	61.64074	58775396
15	ARS-BFGL-NGS-111222	61.69105	58796348
15	Hapmap45874-BTA-37175	61.77367	58830757
15	BTA-121024-no-rs	61.93912	58899665
15	Hapmap49977-BTA-37170	62.00187	58925799
15	BTB-00607669	62.23045	59020999
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15	BTB-00608390	62.52084	59183752
15	ARS-BFGL-NGS-36995	62.67394	59296431
15	Hapmap43566-BTA-37197	62.72364	59333016
15	ARS-BFGL-NGS-60593	62.7972	59387154
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15	ARS-BFGL-NGS-37842	63.16986	59661438
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15	ARS-BFGL-NGS-21068	63.37625	59813342
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15	ARS-BFGL-NGS-55309	63.54477	59937374
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15	BTA-96695-no-rs	63.89474	60194965
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15	BTA-91367-no-rs	64.0596	60316301
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15	ARS-BFGL-NGS-35117	65.69581	61287473
15	Hapmap41522-BTA-37226	65.7028	61320019
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15	ARS-BFGL-NGS-3040	65.71537	61378465
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15	BTB-01762168	65.76314	61600685
15	BTB-01762302	65.77048	61634879
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15	BTB-00608931	65.79375	61743112
15	BTA-28158-no-rs	65.80888	61813536
15	BTA-02893-rs29010438	65.81566	61845029
15	BTA-113257-no-rs	65.82138	61871659
15	BTA-37234-no-rs	65.82597	61893000
15	ARS-BFGL-NGS-55534	65.83346	61927861
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15	ARS-BFGL-NGS-41462	65.84961	62002976
15	Hapmap25081-BTA-153963	65.85	62057421
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15	BTB-01177436	65.85	62283471
15	Hapmap49004-BTA-105180	65.85	62309986
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15	ARS-BFGL-NGS-77090	65.85	62557254
15	BTB-01230622	65.85	62600934
15	Hapmap49365-BTA-89419	65.85	62647758
15	Hapmap38148-BTA-27068	65.85	62672763
15	Hapmap58607-rs29013975	65.85	62706301
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15	BTB-01788872	66.10137	63056507
15	BTB-01746743	66.26084	63110430
15	BTB-01280838	66.31935	63174506
15	BTB-01280822	66.3276	63216353
15	Hapmap44354-BTA-17069	66.33492	63253454
15	BTB-01280741	66.34036	63281076
15	ARS-BFGL-NGS-111146	66.34563	63307781
15	ARS-BFGL-NGS-63905	66.36667	63414520
15	ARS-BFGL-NGS-117803	66.37337	63448555
15	ARS-BFGL-NGS-61341	66.38167	63490623
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15	BTA-17070-no-rs	66.39252	63545679
15	BTB-01508301	66.40012	63584215
15	ARS-BFGL-NGS-71816	66.40507	63609332
15	ARS-BFGL-NGS-118002	66.4567	63871198

15	ARS-BFGL-NGS-41765	66.47551	63966654
15	ARS-BFGL-NGS-82738	66.49335	64057195
15	BTA-18105-no-rs	66.91501	64168198
15	ARS-BFGL-NGS-89682	67.16164	64214143
15	BTA-01263-rs29012228	67.6254	64283442
15	ARS-BFGL-BAC-18822	67.95014	64326873
15	Hapmap48636-BTA-118794	68.11462	64373612
15	Hapmap57542-rs29012408	68.13386	64408726
15	BTB-01706506	68.14898	64436323
15	Hapmap59484-rs29019823	68.20648	64541292
15	BTB-01505484	68.22795	64580476
15	ARS-BFGL-NGS-55943	68.25437	64628706
15	ARS-BFGL-NGS-112422	68.32227	64752653
15	BTA-37249-no-rs	68.33706	64779638
15	ARS-BFGL-NGS-100198	68.34952	64802379
15	ARS-BFGL-NGS-113194	68.37715	64852830
15	ARS-BFGL-NGS-84776	68.3903	64876840
15	ARS-BFGL-NGS-43586	68.4614	65006607
15	Hapmap47273-BTA-37273	68.48645	65052346
15	BTB-00609706	68.50101	65078912
15	Hapmap41848-BTA-37274	68.52411	65115887
15	BTA-37280-no-rs	68.60572	65161744
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15	ARS-BFGL-NGS-115610	68.73655	65235259
15	BTB-00610177	68.77304	65255763
15	BTA-37293-no-rs	68.92158	65339226
15	Hapmap59089-rs29024353	69.04466	65408389
15	Hapmap56240-ss46526743	69.20207	65496837
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15	ARS-BFGL-NGS-109573	69.3125	65558890
15	ARS-BFGL-NGS-82082	69.36948	65590902
15	ARS-BFGL-NGS-111210	69.55028	65692496
15	ARS-BFGL-NGS-15460	69.59549	65717899
15	BTA-37316-no-rs	69.64002	65742925
15	ARS-BFGL-BAC-20605	69.68613	65768829
15	BTA-37317-no-rs	69.76569	65813540
15	ARS-BFGL-NGS-16622	69.86844	65871270
15	BTA-37324-no-rs	69.90543	65892060
15	Hapmap49137-BTA-37325	69.96201	65923853
15	ARS-BFGL-NGS-29708	70.00309	65946932
15	ARS-BFGL-NGS-90062	70.04029	65967835
15	ARS-BFGL-NGS-65623	70.0799	65990096
15	Hapmap50340-BTA-37383	70.17279	66042287
15	BTB-00611237	70.24442	66082534
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15	Hapmap58710-rs29020911	70.40083	66170427
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15	Hapmap49978-BTA-37376	70.51742	66235937
15	Hapmap52383-rs29020089	70.62804	66298095
15	ARS-BFGL-NGS-112642	70.78076	66383907
15	ARS-BFGL-NGS-32103	70.84818	66421792
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15	ARS-BFGL-NGS-102782	70.95821	66483616
15	Hapmap57082-ss46526507	71.09699	66540919
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15	BTA-37355-no-rs	71.37004	66629434
15	ARS-BFGL-NGS-110386	71.4452	66653797
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15	BTA-37329-no-rs	72.10723	66868403
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15	ARS-BFGL-NGS-76144	73.1	67242968
15	ARS-BFGL-NGS-36801	73.1	67269656
15	ARS-BFGL-NGS-111525	73.1	67323237
15	Hapmap41218-BTA-28547	73.1	67358867
15	ARS-BFGL-NGS-92508	73.1	67386416
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15	Hapmap39057-BTA-37396	73.1	67457957
15	BTB-00611605	73.1	67486632
15	Hapmap48267-BTA-25486	73.1	67517397
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15	ARS-BFGL-NGS-22354	73.1	67682968
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15	Hapmap54259-rs29018653	73.20895	67816375
15	ARS-BFGL-NGS-116120	73.84868	67966501
15	Hapmap23269-BTA-147941	74.19473	68047712
15	ARS-BFGL-NGS-97658	74.28929	68069900
15	BTB-01395083	74.39825	68095470
15	ARS-BFGL-NGS-19448	74.51585	68123068
15	BTB-01395361	74.97736	68231379
15	ARS-BFGL-NGS-103106	75.14346	68288320
15	BTB-01609786	75.27403	68337970
15	ARS-BFGL-NGS-19590	75.55298	68444035
15	BTB-00612010	75.73991	68515114
15	ARS-BFGL-NGS-79710	75.85037	68557111
15	BTA-23055-no-rs	76.07154	68641210
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15	ARS-BFGL-NGS-66830	76.25789	68698326
15	Hapmap50268-BTA-16942	76.28988	68731359
15	BTB-01279479	76.32189	68764421
15	BTB-01279391	76.3492	68792615
15	BTA-16936-no-rs	76.38239	68826891
15	BTB-01279265	76.53853	68988117
15	ARS-BFGL-NGS-101744	76.64488	69097946
15	BTB-02006544	76.67082	69124726
15	BTB-01851084	76.73042	69186266
15	Hapmap54774-rs29009903	76.7579	69214643
15	BTB-00612553	76.84753	69307197
15	ARS-BFGL-NGS-31434	76.9277	69389980
15	BTB-00612677	76.95483	69418001
15	ARS-BFGL-NGS-26597	76.97745	69441352
15	BTB-00612863	77.04407	69510146
15	ARS-BFGL-NGS-74913	77.0848	69552205
15	ARS-BFGL-NGS-66069	77.15673	69626487
15	BTB-00613090	77.19278	69663711
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15	BTA-37459-no-rs	77.39321	69870683
15	ARS-BFGL-NGS-1793	77.45093	69930274
15	BTA-37461-no-rs	77.51082	69992123
15	BTA-104428-no-rs	77.65357	70139530
15	BTA-104441-no-rs	77.74381	70232713
15	BTB-00266777	77.76722	70256883

15	Hapmap43354-BTA-77081	77.79382	70284345	
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15	BTB-02093288	77.9141	70408555	
15	Hapmap42319-BTA-77091	77.94089	70436217	
15	BTB-00613389	77.98281	70479506	
15	Hapmap48632-BTA-117750	78.00859	70506131	
15	ARS-BFGL-BAC-18240	78.03645	70534892	
15	Hapmap23318-BTA-148682	78.0975	70597937	
15	BTB-01407725	78.13995	70641768	
15	BTA-89503-no-rs	78.1831	70686321	
15	BTA-89505-no-rs	78.20303	70706906	
15	BTB-01487766	78.28665	70793253	
15	BTB-01010030	78.31644	70824007	
15	BTA-89498-no-rs	78.34203	70850435	
15	BTA-37581-no-rs	78.37003	70880599	
15	BTB-00614284	78.37079	70921852	
15	BTB-00614223	78.37168	70970216	
15	BTB-00614032	78.37247	71013018	
15	ARS-BFGL-BAC-18242	78.37351	71069477	
15	BTA-37579-no-rs	78.37464	71130580	
15	BTB-01997082	78.37507	71153751	
15	BTB-00613902	78.3759	71198463	
15	BTB-00613892	78.37663	71237676	
15	Hapmap45926-BTA-37577	78.3773	71274324	
15	ARS-BFGL-NGS-57365	78.37799	71311823	
15	BTB-00613588	78.37856	71342153	
15	ARS-BFGL-NGS-6989	78.37917	71375213	
15	Hapmap47274-BTA-37477	78.37974	71406547	
15	BTB-00613515	78.38	71439103	
15	BTB-00613489	78.38	71467340	
15	Hapmap50341-BTA-37469	78.45166	71532001	
15	ARS-BFGL-BAC-2195	78.53889	71605225	
15	ARS-BFGL-NGS-24510	78.73763	71772056	
15	ARS-BFGL-BAC-18252	79.01117	72001676	
15	Hapmap54162-rs29026900	79.25239	72113534	
15	Hapmap42190-BTA-37588	79.32044	72142927	
15	Hapmap42924-BTA-37587	79.4304	72190416	
15	ARS-BFGL-NGS-24632	79.49763	72219458	
15	Hapmap39483-BTA-37621	79.5485	72241427	
15	ARS-BFGL-NGS-105548	80.08379	72418250	
15	BTA-117758-no-rs	80.10524	72591774	
15	BTA-37592-no-rs	80.12066	72716471	
15	ARS-BFGL-NGS-955	80.12499	72751515	
15	Hapmap34688-BES2_Contig423_849		80.12751	72771875
15	Hapmap36380-SCAFFOLD145103_39605		80.13784	72855395
15	Hapmap42526-BTA-37604	80.14517	72914738	
15	Hapmap45825-BTA-25376	80.15331	72980544	
15	BTA-37606-no-rs	80.16018	73036087	
15	Hapmap42191-BTA-37608	80.16548	73078985	
15	Hapmap50342-BTA-37609	80.17455	73152353	
15	BTA-09436-no-rs	80.18124	73206484	
15	Hapmap43251-BTA-37612	80.19337	73304557	
15	Hapmap47929-BTA-37615	80.19834	73344746	
15	Hapmap40672-BTA-121035	80.20918	73432445	
15	ARS-BFGL-NGS-119071	80.21445	73475016	
15	ARS-BFGL-BAC-18266	80.24721	73739991	
15	BTA-98582-no-rs	80.24995	73762207	
15	ARS-BFGL-NGS-22310	80.25249	73782708	



15	ARS-BFGL-NGS-40765	80.26076	73849551
15	ARS-BFGL-NGS-4967	80.26594	73891452
15	ARS-BFGL-NGS-17692	80.27065	73929510
15	ARS-BFGL-NGS-119332	80.27571	73970486
15	ARS-BFGL-NGS-104771	80.286	74053710
15	BTB-00619992	80.28897	74077757
15	ARS-BFGL-NGS-39277	80.29221	74103876
15	Hapmap39648-BTA-37846	80.29635	74137434
15	Hapmap39021-BTA-37857	80.30318	74192634
15	ARS-BFGL-NGS-41336	80.30877	74237858
15	UA-IFASA-8983	80.31264	74269138
15	BTB-01706269	80.31561	74293207
15	ARS-BFGL-NGS-21727	80.32047	74332484
15	BTB-00620537	80.33641	74461397
15	ARS-BFGL-NGS-113600	80.33999	74490356
15	BTB-00479280	80.3435	74518742
15	BTB-00479196	80.35049	74575241
15	Hapmap46540-BTA-93429	80.35918	74645639
15	ARS-BFGL-NGS-113046	80.51162	74804528
15	ARS-BFGL-NGS-44270	80.54343	74836477
15	BTB-01206179	80.57027	74863455
15	Hapmap54269-rs29023420	80.59847	74891785
15	ARS-BFGL-NGS-119303	80.63137	74924833
15	ARS-BFGL-NGS-33218	80.67982	74973501
15	ARS-BFGL-NGS-119294	80.70629	75000095
15	ARS-BFGL-NGS-15700	80.74303	75037006
15	ARS-BFGL-NGS-107160	80.77112	75065222
15	Hapmap47276-BTA-37697	80.81357	75107863
15	Hapmap47593-BTA-37693	80.85387	75148353
15	ARS-BFGL-NGS-23895	80.88419	75178820
15	ARS-BFGL-NGS-41102	80.94447	75239358
15	ARS-BFGL-NGS-79474	81.04894	75344319
15	ARS-BFGL-NGS-19705	81.0687	75364157
15	BTB-00614785	81.16176	75457657
15	ARS-BFGL-NGS-12582	81.20832	75504433
15	ARS-BFGL-NGS-19794	81.26772	75564094
15	ARS-BFGL-NGS-81673	81.29926	75595790
15	Hapmap24805-BTA-130232	81.36405	75660873
15	ARS-BFGL-NGS-2100	81.3942	75691167
15	ARS-BFGL-NGS-113283	81.43178	75728915
15	ARS-BFGL-NGS-26950	81.45248	75749702
15	ARS-BFGL-NGS-13107	81.56525	75863003
15	ARS-BFGL-NGS-26846	81.61598	75913958
15	ARS-BFGL-NGS-111520	81.63907	75937148
15	ARS-BFGL-NGS-112176	81.71481	76013237
15	ARS-BFGL-NGS-18223	81.74194	76040500
15	BTA-121045-no-rs	81.78594	76084701
15	ARS-BFGL-NGS-30417	81.82	76125139
15	ARS-BFGL-NGS-40608	81.82	76166896
15	ARS-BFGL-NGS-14315	81.82	76190131
15	ARS-BFGL-NGS-23449	81.82	76215401
15	ARS-BFGL-NGS-31754	81.82	76265233
15	ARS-BFGL-NGS-23900	81.82	76314927
15	ARS-BFGL-NGS-38254	81.82	76350223
15	ARS-BFGL-NGS-119752	81.82	76379840
15	ARS-BFGL-NGS-44706	81.82	76438547
15	ARS-BFGL-NGS-25994	81.82	76466667
15	ARS-BFGL-NGS-114766	81.82	76495215
15	BTB-00616558	81.82	76543456

15	ARS-BFGL-NGS-30535	81.82	76571423		
15	ARS-BFGL-NGS-1045	81.82	76598267		
15	ARS-BFGL-NGS-30110	81.82	76675303		
15	ARS-BFGL-NGS-3375	81.82	76729776		
15	INRA-736	81.82	76791679		
15	ARS-BFGL-NGS-28379	81.82	76825757		
15	BTB-00616938	81.82	76869381		
15	BTB-00616941	81.82	76901012		
15	BTB-00616981	81.88425	76960713		
15	INRA-748	81.97027	77003599		
15	Hapmap44683-BTA-37717	82.05595	77046320		
15	ARS-BFGL-NGS-106982	82.24806	77142114		
15	BTA-37724-no-rs	82.30226	77169139		
15	ARS-BFGL-NGS-113953	82.41266	77224186		
15	INRA-764	82.53879	77287071		
15	BTB-00617241	82.58128	77308264		
15	ARS-BFGL-NGS-74663	82.62569	77330405		
15	ARS-BFGL-NGS-77091	82.68692	77360934		
15	ARS-BFGL-NGS-12519	82.76424	77399486		
15	ARS-BFGL-NGS-115316	82.86938	77451913		
15	ARS-BFGL-NGS-109896	82.96973	77501955		
15	UA-IFASA-7303	83.0535	77543720		
15	ARS-BFGL-NGS-2927	83.14712	77590401		
15	ARS-BFGL-NGS-21869	83.21169	77622594		
15	BTA-37768-no-rs	83.26774	77650548		
15	ARS-BFGL-NGS-115168	83.31812	77675666		
15	ARS-BFGL-NGS-65510	83.83659	77934185		
15	ARS-BFGL-NGS-77642	84.33103	78180723		
15	Hapmap40418-BTA-37758	84.42998	78230054		
15	UA-IFASA-4359	84.63053	78330054		
15	ARS-BFGL-NGS-113995	84.7736	78401390		
15	ARS-BFGL-NGS-17257	84.84156	78435283		
15	INRA-731	84.88561	78457247		
15	ARS-BFGL-NGS-102796	84.94508	78486898		
15	Hapmap24247-BTA-130272	85.06133	78544866		
15	BTB-00617870	85.21091	78619447		
15	BTA-37741-no-rs	85.26437	78646102		
15	ARS-BFGL-NGS-102395	85.33542	78681531		
15	BTB-00618478	85.47495	78751106		
15	Hapmap42192-BTA-37799	85.83743	78966608		
15	ARS-BFGL-NGS-41808	85.88802	79022266		
15	INRA-754	85.92838	79057845		
15	ARS-BFGL-NGS-111783	85.96303	79088393		
15	ARS-BFGL-NGS-46908	85.97447	79098481		
15	BTB-02028015	85.99432	79115985		
15	ARS-BFGL-BAC-3588	86.02877	79146349		
15	ARS-USMARC-Parent-DQ866818-rs29011701	86.07522	79187295		
15	UA-IFASA-5162	86.07522	79187295		
15	ARS-BFGL-NGS-88377	86.12083	79227512		
15	Hapmap51931-BTA-118777	86.14957	79252846		
15	Hapmap42719-BTA-90157	86.1802	79279851		
15	BTB-01928584	86.25253	79343616		
15	BTA-90467-no-rs	86.26908	79358207		
15	BTB-01740273	86.32191	79404776		
15	BTB-01749101	86.42822	79498504		
15	ARS-BFGL-NGS-20708	86.46566	79531511		
15	BTB-01920239	86.58602	79637627		
15	ARS-BFGL-NGS-69079	86.75375	79785494		
15	BTB-01793260	86.90985	79923112		

15	BTB-02093045	86.96491	79971651	
15	BTB-02096198	87.00148	80003887	
15	Hapmap47542-BTA-22415	87.03547	80033854	
15	BTB-00620646	87.0764	80069939	
15	BTB-02012820	87.10803	80097824	
15	BTB-01690781	87.41654	80369812	
15	ARS-BFGL-NGS-69075	87.45563	80404264	
15	BTB-01686920	88.20763	81067236	
15	ARS-BFGL-NGS-76982	88.3241	81169903	
15	ARS-BFGL-NGS-108504	88.42125	81255556	
15	ARS-BFGL-NGS-11467	88.61453	81425956	
15	BTB-01772541	88.68548	81488498	
15	BTB-01772446	88.7127	81513752	
15	BTB-02043153	88.73283	81540854	
15	ARS-BFGL-NGS-119176	88.75816	81574949	
15	Hapmap56991-rs29010083	88.77346	81595546	
15	ARS-BFGL-NGS-112142	88.79115	81619357	
15	ARS-BFGL-NGS-73835	88.81786	81655317	
15	ARS-BFGL-NGS-32594	88.83452	81677745	
15	ARS-BFGL-NGS-38105	88.87802	81736304	
15	Hapmap58582-ss46526544	88.93892	81818289	
15	ARS-BFGL-NGS-5434	88.97676	81869228	
15	ARS-BFGL-NGS-27994	89.04781	81964881	
15	ARS-BFGL-NGS-1121	89.09087	82061751	
15	ARS-BFGL-NGS-119949	89.09214	82119502	
15	ARS-BFGL-NGS-101244	89.09292	82155292	
15	ARS-BFGL-NGS-32140	89.09364	82188315	
15	ARS-BFGL-NGS-41418	89.09425	82216138	
15	Hapmap34615-BES10_Contig586_1594	89.09523	82260685	
15	ARS-BFGL-NGS-28035	89.09648	82317986	
15	Hapmap38032-BTA-37826	89.09801	82388156	
15	BTB-00619772	89.09856	82412940	
15	BTB-00619826	89.09932	82447474	
15	ARS-BFGL-NGS-84716	89.1002	82479789	
15	ARS-BFGL-NGS-113049	89.10551	82511823	
15	ARS-BFGL-NGS-59117	89.10928	82534584	
15	ARS-BFGL-NGS-17036	89.11322	82558282	
15	ARS-BFGL-NGS-82980	89.12371	82621492	
15	ARS-BFGL-NGS-14541	89.12942	82655879	
15	ARS-BFGL-NGS-26681	89.13499	82689485	
15	ARS-BFGL-NGS-28904	89.13983	82718640	
15	ARS-BFGL-NGS-66369	89.14809	82768398	
15	ARS-BFGL-NGS-57604	89.15395	82803742	
15	Hapmap42766-BTA-102377	89.15792	82827665	
15	ARS-BFGL-NGS-16343	89.16582	82875229	
15	Hapmap23527-BTA-152927	89.16827	82890003	
15	BTB-01166648	89.18043	82963320	
15	BTB-01665549	89.18574	82995295	
15	ARS-BFGL-NGS-20897	89.18954	83018235	
15	BTB-01988933	89.20738	83125731	
15	ARS-BFGL-NGS-61249	89.21935	83197822	
15	ARS-BFGL-NGS-111758	89.23484	83291207	
15	Hapmap38721-BTA-107281	89.23946	83319038	
15	ARS-BFGL-NGS-112216	89.24633	83360435	
15	BTB-00622199	89.25461	83410335	
15	ARS-BFGL-NGS-31313	89.28381	83586289	
15	BTB-00622270	89.3	83970308	
15	BTB-00622293	89.3	84003126	
15	ARS-BFGL-NGS-23034	89.3	84037597	

15	ARS-BFGL-NGS-119346	89.33564	84126043	
15	ARS-BFGL-NGS-89374	89.35645	84172568	
15	BTB-00622434	89.37157	84206387	
15	ARS-BFGL-NGS-102526	89.39699	84263215	
15	ARS-BFGL-NGS-35142	89.42037	84315488	
15	ARS-BFGL-NGS-116675	89.43361	84345077	
15	ARS-BFGL-NGS-74183	89.52271	84399592	
15	BTB-00621344	89.73489	84502766	
15	BTA-37880-no-rs	89.81155	84540041	
15	BTB-02035942	89.88547	84575987	
15	BTB-01627415	90.02309	84642901	
15	Hapmap58511-rs29024296	90.10731	84683859	
15	ARS-BFGL-NGS-5732	90.15036	84704791	
15	ARS-BFGL-NGS-44370	90.30174	84778401	
15	ARS-BFGL-NGS-35364	90.36049	84806966	
15	UA-IFASA-5953	90.48105	84865591	
15	ARS-BFGL-NGS-29475	90.73235	84987785	
15	BTA-37923-no-rs	90.78165	85011763	
15	ARS-BFGL-NGS-24582	90.85972	85049720	
15	ARS-BFGL-NGS-113051	90.9389	85088227	
15	ARS-BFGL-NGS-84184	90.98806	85112130	
15	Hapmap35969-SCAFFOLD125600_2589	91.06467	85149373	
15	ARS-BFGL-NGS-77257	91.17667	85203839	
15	ARS-BFGL-NGS-675	91.28664	85257312	
16	ARS-BFGL-NGS-9495	1.14	116037	
16	ARS-BFGL-NGS-17641	2.253793	555718	
16	Hapmap36082-SCAFFOLD195821_13908	2.356208	591008	
16	Hapmap52327-rs29020729	2.643038	689843	
16	ARS-BFGL-NGS-15350	2.830221	754342	
16	UA-IFASA-9087	2.894009	776322	
16	Hapmap54719-rs29023014	2.97541	804371	
16	ARS-BFGL-NGS-49806	3.058721	833078	
16	ARS-BFGL-NGS-86075	3.155118	866294	
16	BTA-38756-no-rs	3.349524	933282	
16	ARS-BFGL-NGS-18860	3.398715	950232	
16	ARS-BFGL-NGS-6005	3.522547	992902	
16	ARS-BFGL-NGS-108427	3.581025	1013052	
16	BTB-00625769	3.847476	1104865	
16	ARS-BFGL-NGS-110989	3.990047	1153992	
16	Hapmap52241-rs29014076	4.121818	1199397	
16	Hapmap40972-BTA-38862	4.22717	1235699	
16	ARS-BFGL-NGS-21417	4.329785	1271058	
16	Hapmap35625-SCAFFOLD312099_6800	4.404938	1296954	
16	ARS-BFGL-NGS-96258	4.495399	1328125	
16	BTB-00623605	4.683369	1392895	
16	BTB-00623664	4.75277	1416809	
16	BTB-00623624	4.839578	1446721	
16	Hapmap51407-BTA-121049	4.92667	1476731	
16	BTB-00623817	5.046399	1517987	
16	Hapmap47596-BTA-38603	5.212306	1575155	
16	BTB-01324160	5.308009	1608132	
16	ARS-BFGL-NGS-97259	5.420341	1646839	
16	ARS-BFGL-NGS-10856	5.547003	1690484	
16	ARS-BFGL-NGS-19292	5.920911	1819324	
16	ARS-BFGL-NGS-96376	6.022322	1854268	
16	ARS-BFGL-NGS-98017	6.165169	1903490	
16	ARS-BFGL-NGS-32184	6.364309	1972109	
16	ARS-BFGL-NGS-53886	6.461695	2005666	
16	ARS-BFGL-NGS-37116	6.59177	2050487	

16	Hapmap27200-BTA-154249	6.732214	2098881	
16	ARS-BFGL-NGS-80118	6.836957	2134973	
16	ARS-BFGL-NGS-119694	6.960143	2177420	
16	ARS-BFGL-NGS-45020	7.159753	2246201	
16	ARS-BFGL-NGS-110956	7.400607	2329194	
16	ARS-BFGL-NGS-116811	7.461128	2350048	
16	ARS-BFGL-NGS-34090	7.708203	2450107	
16	BTA-39079-no-rs	8.169044	2658661	
16	BTB-00626777	8.227978	2685332	
16	ARS-BFGL-NGS-38266	8.322418	2728071	
16	ARS-BFGL-NGS-117331	8.512162	2813940	
16	ARS-BFGL-NGS-22732	8.573898	2841879	
16	ARS-BFGL-NGS-35175	8.650367	2876485	
16	Hapmap46697-BTA-38171	8.700684	2899256	
16	ARS-BFGL-NGS-2382	8.776315	2933483	
16	Hapmap33837-BES10_Contig687_1379	8.840124	2962360	
16	ARS-BFGL-NGS-10577	8.916891	2997101	
16	ARS-BFGL-NGS-28226	9.002232	3035722	
16	BTA-38204-no-rs	9.090922	3075859	
16	ARS-BFGL-NGS-26259	9.143776	3099778	
16	BTB-00624652	9.379813	3206597	
16	ARS-BFGL-NGS-112337	9.502948	3262322	
16	ARS-BFGL-NGS-22265	9.558232	3287341	
16	BTB-00623849	9.83	3429932	
16	Hapmap35728-SCAFFOLD265480_4249	9.83	3455689	
16	ARS-BFGL-NGS-21426	9.83	3476878	
16	ARS-BFGL-NGS-92786	9.83	3506494	
16	ARS-BFGL-NGS-110702	9.83	3589012	
16	ARS-BFGL-NGS-116717	9.83	3621602	
16	ARS-BFGL-NGS-58366	9.83	3658676	
16	BTB-01175421	9.83	3694117	
16	ARS-BFGL-NGS-116429	9.83	3729692	
16	ARS-BFGL-BAC-19450	9.830518	3762358	
16	BTA-40338-no-rs	9.949031	3805373	
16	BTB-00624204	10.36647	3956884	
16	BTA-38126-no-rs	10.4517	3987821	
16	ARS-BFGL-NGS-41905	10.50048	4021893	
16	ARS-BFGL-NGS-117941	10.59646	4095536	
16	ARS-BFGL-NGS-13135	10.62364	4116390	
16	ARS-BFGL-NGS-75856	10.65276	4138735	
16	ARS-BFGL-NGS-115905	10.71392	4185662	
16	ARS-BFGL-NGS-35802	10.7769	4233985	
16	Hapmap51221-BTA-38934	10.84382	4282058	
16	ARS-BFGL-NGS-27118	10.88743	4305200	
16	BTA-38966-no-rs	10.99221	4360793	
16	BTA-39308-no-rs	11.05415	4393652	
16	ARS-BFGL-NGS-5478	11.31844	4533875	
16	ARS-BFGL-NGS-32254	11.38116	4567154	
16	ARS-BFGL-NGS-100487	11.46372	4610955	
16	Hapmap38310-BTA-39213	11.49725	4628745	
16	ARS-BFGL-NGS-110175	11.6004	4683476	
16	ARS-BFGL-NGS-117786	11.88715	4835615	
16	ARS-BFGL-NGS-90544	11.9758	4882649	
16	ARS-BFGL-NGS-102252	12.07928	4937547	
16	ARS-BFGL-NGS-4621	12.21109	5007486	
16	ARS-BFGL-NGS-118841	12.30906	5059463	
16	BTB-01501576	12.44748	5132901	
16	BTB-01501544	12.48474	5152670	
16	ARS-BFGL-NGS-104359	12.67504	5253637	

16	BTB-01927506	13.03954	5447029	
16	BTA-95363-no-rs	13.96931	5940330	
16	BTB-01975868	15.22075	6146432	
16	ARS-BFGL-NGS-89740	15.37844	6168426	
16	BTB-01200020	16.03367	6259815	
16	BTB-01200008	16.18706	6281209	
16	Hapmap52413-rs29016330	16.58187	6364246	
16	ARS-BFGL-NGS-13802	16.66361	6385951	
16	BTA-109095-no-rs	16.91381	6452389	
16	Hapmap51387-BTA-109077	17.07078	6494072	
16	BTB-02010595	17.18177	6523545	
16	BTB-01199899	17.30909	6557355	
16	Hapmap33722-BTA-155362	17.48	6619400	
16	BTB-01803292	21.31629	7979922	
16	Hapmap23598-BTA-151049	21.46589	8015937	
16	BTB-01234153	21.61447	8051706	
16	BTB-01511566	22.14595	8179652	
16	ARS-BFGL-NGS-107190	22.48731	8261831	
16	BTB-01397819	22.71846	8317477	
16	BTB-01921305	22.87104	8354209	
16	BTA-26788-no-rs	23.06247	8414004	
16	BTA-88251-no-rs	23.17177	8486467	
16	BTB-01481993	23.31595	8582055	
16	BTB-01481964	23.41599	8648376	
16	Hapmap42744-BTA-96945	23.5262	8721448	
16	ARS-BFGL-NGS-38249	23.59829	8769236	
16	BTB-01541076	23.74761	8868238	
16	BTB-01540999	23.7918	8897534	
16	ARS-BFGL-NGS-111160	24.02801	9054132	
16	Hapmap43197-BTA-18754	24.17078	9148784	
16	BTB-01292634	24.30494	9237728	
16	BTB-01292787	24.42262	9315748	
16	BTB-01292824	24.44404	9329952	
16	BTB-01292956	24.56709	9411533	
16	Hapmap43504-BTA-18760	24.61018	9440097	
16	BTB-01293141	24.64763	9464925	
16	BTB-02039155	24.682	9487711	
16	ARS-BFGL-NGS-101053	24.76253	9541103	
16	BTB-01222074	24.80499	9569249	
16	BTA-113281-no-rs	24.88292	9620917	
16	BTB-01221760	24.89947	9640741	
16	Hapmap42433-BTA-113280	24.91806	9670453	
16	Hapmap25010-BTA-113271	24.95519	9729773	
16	ARS-BFGL-NGS-60844	25.00183	9804295	
16	Hapmap58503-rs29017623	25.03363	9855098	
16	ARS-USMARC-Parent-DQ846693-rs29017621	25.03374	9855276	
16	BTA-28089-no-rs	25.05159	9883787	
16	BTA-15874-no-rs	25.08771	9941492	
16	Hapmap33213-BTA-147206	25.12276	9997507	
16	BTB-01569285	25.17104	10074643	
16	Hapmap50850-BTA-104683	25.20247	10124860	
16	BTB-00628142	25.22811	10165819	
16	BTA-39609-no-rs	25.75852	10254748	
16	Hapmap54310-rs29012181	26.15516	10308240	
16	Hapmap49982-BTA-39672	26.35408	10335068	
16	BTB-00628376	26.52716	10358410	
16	Hapmap43402-BTA-91283	26.75625	10389306	
16	BTA-24867-no-rs	27.0262	10425712	
16	Hapmap43811-BTA-22208	27.37407	10474014	

16	BTB-01452873	27.51389	10540543
16	Hapmap43411-BTA-94581	27.68758	10623189
16	ARS-BFGL-NGS-33977	27.75422	10654894
16	BTB-01452577	27.8563	10703464
16	Hapmap46736-BTA-94583	27.93421	10740538
16	BTB-01843506	27.99817	10770968
16	BTA-25001-no-rs	28.16567	10859069
16	BTB-01691098	28.21668	10958964
16	BTA-39714-no-rs	28.27082	11064988
16	Hapmap33576-BTA-130425	28.2867	11096101
16	BTB-01533537	28.3	11166330
16	BTA-101442-no-rs	28.33887	11221231
16	ARS-BFGL-NGS-26891	28.3706	11243599
16	Hapmap51359-BTA-96781	28.57973	11391026
16	Hapmap44170-BTA-96790	28.67372	11457289
16	ARS-BFGL-NGS-102072	28.70413	11478730
16	ARS-BFGL-NGS-117850	28.73794	11502567
16	BTB-01373273	28.78224	11533792
16	BTB-02066851	28.86315	11590837
16	BTA-118128-no-rs	29.02041	11701699
16	ARS-BFGL-NGS-68212	29.08882	11749925
16	ARS-BFGL-NGS-116310	29.15689	11797915
16	BTB-01698088	29.2267	11847129
16	BTB-01849548	29.32275	11914844
16	BTA-117723-no-rs	29.36369	11943700
16	ARS-BFGL-NGS-80278	29.44284	11999500
16	ARS-BFGL-NGS-14292	29.47783	12024166
16	ARS-BFGL-NGS-116165	29.50998	12046831
16	BTA-17762-no-rs	29.51	12130589
16	BTA-17755-no-rs	29.51	12216824
16	ARS-BFGL-NGS-117319	29.51	12238539
16	BTB-01838743	29.51	12365230
16	BTB-01697831	29.6142	12455270
16	ARS-BFGL-NGS-13601	29.91208	12592465
16	Hapmap55901-rs29024589	30.29511	12741497
16	ARS-BFGL-NGS-109246	30.69321	12896391
16	BTA-39790-no-rs	30.7776	12929226
16	ARS-BFGL-NGS-18101	30.86611	12963666
16	BTA-39853-no-rs	31.01741	13022533
16	ARS-BFGL-NGS-82646	31.22259	13102367
16	ARS-BFGL-NGS-14375	31.51322	13215446
16	ARS-BFGL-NGS-54574	31.81797	13334020
16	ARS-BFGL-NGS-14865	31.88135	13358683
16	Hapmap60109-rs29016808	32.08233	13436882
16	ARS-BFGL-NGS-22382	32.21788	13489620
16	ARS-BFGL-NGS-103869	32.35362	13542437
16	ARS-BFGL-NGS-24104	32.6477	13656858
16	ARS-BFGL-BAC-19454	32.74627	13695211
16	ARS-BFGL-NGS-31483	32.84436	13733378
16	Hapmap59731-rs29015814	33.00633	13796398
16	BTA-01514-no-rs	33.0699	13821130
16	Hapmap52419-rs29024834	33.38736	13944653
16	BTA-88772-no-rs	33.48274	13981764
16	ARS-BFGL-NGS-104078	33.60002	14027394
16	Hapmap60133-rs29023347	33.71251	14071161
16	ARS-BFGL-NGS-43032	33.84126	14121257
16	Hapmap43132-BTA-106451	33.99903	14182644
16	ARS-BFGL-NGS-108757	34.08149	14214730
16	BTA-106455-no-rs	34.15483	14243263

16	Hapmap57676-rs29015853	34.22875	14272025
16	Hapmap47848-BTA-117814	34.37189	14327718
16	BTA-114646-no-rs	34.60908	14500474
16	Hapmap42351-BTA-88898	34.841	14684450
16	BTA-88918-no-rs	35.15567	14934067
16	Hapmap49361-BTA-88922	35.29589	15045297
16	ARS-BFGL-NGS-104830	35.43319	15154212
16	ARS-BFGL-NGS-1753	35.55025	15247073
16	ARS-BFGL-BAC-19449	35.69566	15362423
16	ARS-BFGL-NGS-111893	35.76352	15416252
16	BTA-40230-no-rs	35.86789	15499049
16	Hapmap57947-rs29016953	36.03547	15631984
16	BTA-40259-no-rs	36.10775	15689319
16	Hapmap51725-BTA-40263	36.13427	15710360
16	Hapmap51949-BTA-40269	36.22	15840762
16	Hapmap32889-BTA-40273	36.22	15898820
16	Hapmap41122-BTA-03572	36.22	15922964
16	Hapmap49984-BTA-40288	36.22	15984208
16	Hapmap50822-BTA-91801	36.22	16043178
16	ARS-BFGL-BAC-20634	36.22	16117756
16	BTA-40290-no-rs	36.22	16152096
16	ARS-BFGL-BAC-20631	36.22	16270589
16	Hapmap54784-rs29010995	36.22	16375436
16	BTA-122806-no-rs	36.22	16453639
16	Hapmap42889-BTA-27057	36.22	16475491
16	ARS-BFGL-NGS-53541	36.22	16498538
16	BTA-27058-no-rs	36.22	16551914
16	Hapmap55320-rs29013537	36.26868	16577116
16	Hapmap39617-BTA-110614	36.34703	16614135
16	ARS-BFGL-NGS-16527	36.41888	16648083
16	ARS-BFGL-BAC-19461	37.0727	16957005
16	Hapmap42539-BTA-40292	37.31258	17070345
16	Hapmap32797-BTA-130433	37.41775	17120031
16	BTA-86895-no-rs	37.76477	17283997
16	Hapmap51075-BTA-86900	37.80827	17304547
16	BTA-108577-no-rs	38.303	17684165
16	Hapmap39084-BTA-19524	38.34035	17718169
16	Hapmap33682-BTA-22091	38.6511	17904939
16	Hapmap57781-rs29013849	38.72812	17931777
16	ARS-BFGL-NGS-3827	38.906	17993755
16	ARS-BFGL-NGS-5945	38.99878	18026084
16	ARS-BFGL-NGS-19779	39.08664	18059649
16	BTA-40307-no-rs	39.20352	18152356
16	BTA-40296-no-rs	39.35974	18276261
16	ARS-BFGL-NGS-27788	39.51789	18401696
16	Hapmap50501-BTA-91866	39.63545	18494934
16	Hapmap57309-rs29014084	39.67784	18528552
16	ARS-BFGL-NGS-41400	39.79946	18625014
16	Hapmap27983-BTA-163473	39.82672	18646636
16	ARS-BFGL-NGS-112624	40.96813	19127790
16	ARS-BFGL-NGS-111288	41.0793	19150304
16	ARS-BFGL-NGS-6876	41.48397	19232257
16	ARS-BFGL-NGS-114049	41.80623	19313882
16	ARS-BFGL-NGS-41932	41.81572	19340691
16	Hapmap48269-BTA-26855	41.82837	19376488
16	Hapmap42489-BTA-26858	41.84119	19412728
16	Hapmap50635-BTA-26852	41.87802	19516867
16	Hapmap42200-BTA-40314	41.94735	19712926
16	ARS-BFGL-NGS-33988	41.96	19828569



16	Hapmap40729-BTA-40319	41.96	19882683
16	Hapmap60631-rs29014612	41.96418	20056325
16	BTA-40330-no-rs	41.99424	20077937
16	ARS-BFGL-NGS-60500	42.02456	20099741
16	ARS-BFGL-NGS-108799	42.05611	20122425
16	BTA-40310-no-rs	42.13923	20182187
16	ARS-BFGL-NGS-55834	42.20901	20232360
16	ARS-BFGL-NGS-23826	42.24007	20254692
16	Hapmap39562-BTA-40351	42.38513	20358990
16	BTA-113850-no-rs	42.51109	20449555
16	UA-IFASA-4860	42.54278	20472340
16	Hapmap52580-rs29010915	42.61119	20521527
16	ARS-BFGL-BAC-4819	42.80867	20663521
16	ARS-BFGL-NGS-69487	42.86502	20704034
16	ARS-BFGL-NGS-35246	42.90364	20731806
16	BTB-00629124	43.02139	20816100
16	ARS-BFGL-NGS-11805	43.09501	20868185
16	Hapmap25031-BTA-130442	43.1513	20908000
16	BTA-91828-no-rs	43.22419	20962779
16	BTB-01422500	43.25132	20985573
16	BTB-01422437	43.33455	21055497
16	ARS-BFGL-NGS-26656	43.37856	21092478
16	Hapmap49377-BTA-91839	43.42857	21134492
16	Hapmap60688-rs29014090	43.45345	21155402
16	Hapmap58079-rs29010441	43.52163	21212680
16	ARS-BFGL-NGS-93130	43.56993	21253270
16	BTB-01475486	43.61258	21289097
16	BTB-01475457	43.65711	21326517
16	ARS-BFGL-NGS-26858	43.7106	21371452
16	BTB-00629298	43.82338	21466208
16	BTB-00629361	43.86203	21498689
16	ARS-BFGL-NGS-5418	43.89833	21529188
16	ARS-BFGL-NGS-4021	43.92511	21551688
16	Hapmap52429-rs29026626	43.99853	21613370
16	BTB-00629775	44.11194	21708659
16	ARS-BFGL-NGS-15281	44.1516	21741980
16	BTB-00629893	44.18851	21772991
16	ARS-BFGL-NGS-55380	44.24618	21821449
16	BTB-00630123	44.33537	21896386
16	ARS-BFGL-NGS-51106	44.43439	21979583
16	ARS-BFGL-BAC-2188	44.47639	22014868
16	Hapmap54214-rs29016172	44.50138	22035867
16	ARS-BFGL-NGS-24042	44.53855	22067096
16	BTA-40382-no-rs	44.57998	22101902
16	ARS-BFGL-NGS-111618	44.63421	22147468
16	ARS-BFGL-NGS-89535	44.67281	22179895
16	BTA-40390-no-rs	44.78282	22272329
16	Hapmap31739-BTA-130466	44.81895	22302686
16	ARS-BFGL-NGS-13508	44.94247	22406467
16	Hapmap56324-rs29017665	45.15083	22581533
16	ARS-BFGL-NGS-112615	45.36957	22765317
16	ARS-BFGL-NGS-55935	45.45054	22833343
16	ARS-BFGL-NGS-17429	45.58	22942419
16	Hapmap42077-BTA-114779	45.58	23037476
16	Hapmap54562-rs29009834	45.62309	23108285
16	ARS-BFGL-NGS-118157	45.68431	23162818
16	ARS-BFGL-NGS-76705	45.84483	23305801
16	ARS-BFGL-NGS-82390	45.87072	23328862
16	Hapmap42053-BTA-107968	46.03034	23471049

16	Hapmap36613-SCAFFOLD286685_4525	46.3229	23703210
16	ARS-BFGL-NGS-33165	46.57952	23793827
16	ARS-BFGL-BAC-20057	46.68457	23830920
16	ARS-BFGL-BAC-20058	47.04194	23957117
16	ARS-BFGL-NGS-42691	47.20584	24014992
16	ARS-BFGL-BAC-20061	47.40203	24084268
16	ARS-BFGL-NGS-21301	47.47059	24108481
16	ARS-BFGL-NGS-118183	47.78915	24241296
16	Hapmap58016-ss46526573	47.97372	24323587
16	UA-IFASA-2211	48.02225	24345227
16	BTA-38162-no-rs	48.09869	24379313
16	ARS-BFGL-NGS-38774	48.14758	24401108
16	ARS-BFGL-BAC-3567	48.41846	24521888
16	Hapmap39325-BTA-38156	48.47404	24546670
16	Hapmap49979-BTA-38153	48.49612	24613337
16	ARS-BFGL-NGS-4245	48.64774	24750363
16	Hapmap42927-BTA-38151	48.71898	24810362
16	Hapmap54969-rs29014904	48.79541	24874723
16	ARS-BFGL-NGS-114464	48.82984	24903725
16	Hapmap40673-BTA-121051	48.85632	24926022
16	ARS-BFGL-NGS-65916	48.88296	24948459
16	ARS-BFGL-NGS-87462	48.94434	25000153
16	Hapmap47932-BTA-38182	49.16453	25185581
16	ARS-BFGL-NGS-117936	49.20994	25223828
16	BTA-38191-no-rs	49.55618	25493327
16	ARS-BFGL-BAC-3574	49.63634	25529322
16	Hapmap42529-BTA-38192	49.77351	25590916
16	BTA-38195-no-rs	49.90115	25648232
16	ARS-BFGL-NGS-13463	50.12338	25748026
16	BTA-38177-no-rs	50.49528	25915302
16	Hapmap53517-rs29024619	50.53657	25935999
16	ARS-BFGL-NGS-51577	50.86463	26100450
16	ARS-BFGL-NGS-39451	51.42211	26379899
16	Hapmap45728-BTA-38205	51.57269	26455382
16	BTA-88806-no-rs	51.86109	26579651
16	BTA-88802-no-rs	51.944	26613598
16	ARS-BFGL-NGS-102634	52.12046	26671488
16	BTA-88824-no-rs	52.25161	26701780
16	Hapmap49787-BTA-88812	52.40211	26736540
16	ARS-BFGL-BAC-3576	52.69912	26818129
16	ARS-BFGL-NGS-69595	52.99841	26930864
16	BTA-38387-no-rs	53.16481	26993543
16	BTA-38252-no-rs	53.24802	27024889
16	BTA-38247-no-rs	53.3131	27049399
16	Hapmap42530-BTA-38246	53.39901	27107809
16	BTA-38242-no-rs	53.4314	27164390
16	ARS-BFGL-NGS-106615	53.47958	27248557
16	ARS-BFGL-NGS-79492	53.4959	27277052
16	ARS-BFGL-NGS-1328	53.52891	27334730
16	ARS-BFGL-NGS-117377	53.58467	27432134
16	ARS-BFGL-NGS-13101	53.61736	27489237
16	Hapmap48734-BTA-38315	53.63911	27527228
16	ARS-BFGL-NGS-54368	53.66481	27572128
16	ARS-BFGL-NGS-56645	53.68195	27602073
16	ARS-BFGL-NGS-39696	53.69769	27629566
16	ARS-BFGL-NGS-38652	53.72184	27671754
16	ARS-BFGL-NGS-60495	53.73346	27692042
16	ARS-BFGL-NGS-80292	53.74958	27720210
16	ARS-BFGL-NGS-12538	53.76814	27752636

16	ARS-BFGL-NGS-102216	53.79855	27805751
16	Hapmap30619-BTA-38329	53.84953	27894801
16	BTA-38323-no-rs	53.86935	27929423
16	Hapmap60671-rs29023031	53.91335	28006296
16	ARS-BFGL-NGS-80253	53.99854	28155110
16	BTA-38207-no-rs	54.14801	28319407
16	ARS-BFGL-NGS-25159	54.22502	28384914
16	ARS-BFGL-NGS-36002	54.31765	28463710
16	Hapmap38078-BTA-61284	54.35558	28495969
16	ARS-BFGL-NGS-104195	54.42805	28557616
16	ARS-BFGL-NGS-116390	54.46236	28586798
16	ARS-BFGL-NGS-109990	54.50431	28622486
16	ARS-BFGL-NGS-54489	54.53025	28644553
16	Hapmap53589-rs29009864	54.61243	28714453
16	BTA-90588-no-rs	54.91122	28968607
16	ARS-BFGL-BAC-33348	54.94712	28999146
16	ARS-BFGL-BAC-33349	55.08167	29113588
16	Hapmap38469-BTA-12042	55.27394	29277142
16	BTA-69316-no-rs	55.46665	29441057
16	ARS-BFGL-NGS-78828	55.52552	29491135
16	Hapmap48735-BTA-38349	55.59411	29549475
16	Hapmap42196-BTA-38351	55.65408	29600490
16	ARS-BFGL-NGS-15613	55.69679	29636822
16	ARS-BFGL-NGS-112449	55.72635	29661958
16	ARS-BFGL-NGS-114862	55.75833	29689166
16	Hapmap44646-BTA-38361	55.85132	29768264
16	Hapmap47933-BTA-38363	55.90344	29812601
16	ARS-BFGL-NGS-89576	55.99529	29890723
16	BTA-23170-no-rs	56.03902	29927927
16	ARS-BFGL-BAC-33363	56.17347	30042285
16	Hapmap53163-rs29012001	56.22485	30085992
16	BTA-38367-no-rs	56.25037	30107699
16	ARS-BFGL-NGS-6967	56.28526	30137377
16	ARS-BFGL-NGS-18559	56.31883	30165932
16	ARS-BFGL-NGS-27682	56.34333	30186769
16	ARS-BFGL-NGS-87853	56.43218	30262349
16	ARS-BFGL-NGS-105889	56.51562	30333319
16	ARS-BFGL-NGS-102212	56.55999	30371064
16	ARS-BFGL-NGS-54342	56.59147	30397842
16	ARS-BFGL-NGS-44267	56.63747	30436968
16	ARS-BFGL-NGS-39288	56.67184	30466202
16	ARS-BFGL-NGS-118766	56.72433	30510852
16	BTA-38392-no-rs	56.78319	30560924
16	ARS-BFGL-NGS-35139	56.8	30605702
16	ARS-BFGL-NGS-68395	56.8	30626532
16	ARS-BFGL-NGS-59860	56.8	30656623
16	ARS-BFGL-NGS-18331	56.8	30682132
16	Hapmap44502-BTA-96956	56.8	30714356
16	BTA-96954-no-rs	56.8	30756856
16	BTB-01274565	56.8	30859872
16	BTB-01274618	56.8	30885863
16	BTB-01274700	56.8	30910755
16	BTB-01274755	56.8	30935096
16	BTA-16289-no-rs	56.8	30962706
16	Hapmap29538-BTA-159421	56.8	31011092
16	Hapmap38203-BTA-16294	56.8	31093233
16	BTB-01275036	56.8	31127192
16	Hapmap50900-BTA-16300	56.8	31162715
16	BTB-01634378	56.80032	31185282

16	BTB-01634358	56.80341	31226564	
16	BTB-01634281	56.80556	31255320	
16	ARS-BFGL-NGS-88932	56.8086	31295954	
16	ARS-BFGL-NGS-41039	56.81015	31316568	
16	BTB-00633720	56.81178	31338462	
16	Hapmap42197-BTA-38529	56.81508	31382509	
16	Hapmap39181-BTA-122018	56.82108	31462716	
16	ARS-BFGL-NGS-37475	56.82386	31499868	
16	BTA-38521-no-rs	56.83175	31605270	
16	BTB-00633561	56.83364	31630574	
16	BTB-00633646	56.83546	31654996	
16	ARS-BFGL-NGS-6566	56.83833	31693254	
16	BTB-00634578	56.84537	31787385	
16	BTB-00634528	56.84734	31813761	
16	BTB-00634515	56.85126	31866092	
16	ARS-BFGL-NGS-115293	56.85629	31933362	
16	BTB-00634483	56.85905	31970204	
16	ARS-BFGL-NGS-86384	56.86605	32063762	
16	ARS-BFGL-NGS-114448	56.86841	32095335	
16	BTB-01226542	56.87397	32169733	
16	Hapmap49866-BTA-114054	56.87721	32212983	
16	Hapmap44200-BTA-114052	56.88051	32257121	
16	ARS-BFGL-NGS-19955	56.88686	32341971	
16	ARS-BFGL-NGS-42365	56.88921	32373410	
16	BTB-01226223	56.8956	32458840	
16	ARS-BFGL-NGS-116360	56.89997	32517229	
16	ARS-BFGL-NGS-82770	56.90264	32552886	
16	BTB-01226007	56.90553	32591482	
16	BTB-01225907	56.91014	32653232	
16	BTB-01990434	56.91227	32681586	
16	BTB-01762641	56.915	32718173	
16	ARS-BFGL-NGS-18751	56.92032	32789225	
16	ARS-BFGL-NGS-21121	56.92394	32837610	
16	Hapmap58643-rs29010413	56.92593	32864171	
16	ARS-BFGL-NGS-113877	56.9312	32934632	
16	Hapmap38953-BTA-38562	56.93342	32964319	
16	BTB-00634325	56.93638	33003888	
16	BTA-38561-no-rs	56.93967	33047843	
16	BTB-00634312	56.94518	33121540	
16	Hapmap43256-BTA-38560	56.94919	33175079	
16	Hapmap50594-BTA-121054	56.95339	33231242	
16	ARS-BFGL-NGS-119095	56.95803	33293321	
16	Hapmap50951-BTA-38406	56.96076	33329767	
16	ARS-BFGL-NGS-114479	56.96621	33402551	
16	ARS-USMARC-Parent-DQ846694-rs29015842	56.97509	33521338	
16	ARS-BFGL-NGS-73658	56.97831	33564387	
16	UA-IFASA-8132	56.98153	33607353	
16	Hapmap40684-BTA-16356	56.98412	33641966	
16	ARS-BFGL-NGS-112854	56.98634	33671664	
16	ARS-BFGL-NGS-117723	56.98944	33713195	
16	ARS-BFGL-NGS-44884	56.99301	33760878	
16	Hapmap34458-BES10_Contig689_868	56.99502	33787761	
16	BTB-01275735	56.997	33814223	
16	ARS-BFGL-NGS-104791	57.00181	33878437	
16	Hapmap3167-BTA-16366	57.00336	33899133	
16	Hapmap55185-rs29018283	57.00655	33941793	
16	Hapmap47277-BTA-38408	57.00899	33974438	
16	Hapmap41467-BTA-18750	57.01252	34021608	
16	BTB-00632775	57.01482	34052345	

16	BTB-00632794	57.02099	34134877	
16	BTB-00632811	57.0245	34181806	
16	BTB-00632825	57.02672	34211459	
16	Hapmap25523-BTA-130593	57.02858	34236303	
16	BTB-00632953	57.03058	34263057	
16	Hapmap60111-rs29017285	57.03299	34295245	
16	BTA-38418-no-rs	57.03527	34325659	
16	ARS-BFGL-NGS-4710	57.03685	34346915	
16	ARS-BFGL-NGS-53928	57.04072	34398616	
16	ARS-BFGL-BAC-33387	57.04701	34482706	
16	Hapmap54632-rs29021962	57.04978	34519715	
16	BTB-00633305	57.05283	34560428	
16	Hapmap54101-rs29010797	57.05628	34606531	
16	ARS-BFGL-NGS-115136	57.06001	34656334	
16	Hapmap35299-BES10_Contig233_397	57.06694		34749032
16	BTB-00636278	57.07021	34792809	
16	BTB-00636189	57.07231	34820781	
16	BTB-00636172	57.07349	34836639	
16	BTB-00636004	57.07907	34911228	
16	Hapmap42533-BTA-38667	57.08109	34938163	
16	Hapmap34674-BES4_Contig468_902	57.08303		34964148
16	BTB-00635702	57.08529	34994367	
16	Hapmap47935-BTA-38630	57.09187	35082302	
16	Hapmap50308-BTA-29728	57.09411	35112210	
16	ARS-BFGL-NGS-100932	57.10293	35230105	
16	BTB-00638221	57.10609	35272426	
16	Hapmap46698-BTA-38760	57.10946	35317388	
16	BTB-00638058	57.11576	35401543	
16	ARS-BFGL-NGS-111081	57.11804	35432112	
16	ARS-BFGL-NGS-67302	57.1218	35482273	
16	ARS-BFGL-NGS-66111	57.12674	35548422	
16	Hapmap38110-BTA-38625	57.13984	35723500	
16	Hapmap49590-BTA-38619	57.14298	35765411	
16	ARS-BFGL-BAC-35296	57.14473	35788829	
16	BTA-06703-rs29021060	57.14825	35835922	
16	Hapmap45766-BTA-38696	57.15277	35896376	
16	BTA-38698-no-rs	57.15628	35943279	
16	BTA-38712-no-rs	57.16186	36017802	
16	ARS-BFGL-NGS-15956	57.1621	36020987	
16	BTB-00636852	57.1645	36053055	
16	ARS-BFGL-NGS-37274	57.1691	36114564	
16	ARS-BFGL-NGS-108369	57.17069	36135810	
16	BTB-00632436	57.17335	36171337	
16	Hapmap50346-BTA-38316	57.1753	36197393	
16	Hapmap38223-BTA-38319	57.18023	36263412	
16	ARS-BFGL-BAC-35294	57.18182	36284584	
16	ARS-BFGL-NGS-115148	57.18724	36357048	
16	ARS-BFGL-NGS-41002	57.19162	36415574	
16	Hapmap32835-BTA-149226	57.19576	36470966	
16	ARS-BFGL-NGS-59831	57.19811	36502373	
16	ARS-BFGL-NGS-116278	57.19923	36517262	
16	ARS-BFGL-NGS-1691	57.20092	36539853	
16	Hapmap42440-BTA-115489	57.20586	36605953	
16	BTB-01234565	57.2077	36630447	
16	ARS-BFGL-NGS-80718	57.21463	36723198	
16	Hapmap43255-BTA-38548	57.21624	36744747	
16	ARS-BFGL-NGS-38023	57.21799	36768083	
16	ARS-BFGL-NGS-26559	57.22166	36817218	
16	Hapmap51828-BTA-38538	57.22414	36850287	

16	BTB-00637821	57.22725	36891801
16	BTB-00637815	57.22844	36907824
16	BTA-38746-no-rs	57.23559	37003329
16	Hapmap42534-BTA-38744	57.23718	37024624
16	Hapmap41251-BTA-38757	57.24034	37066798
16	ARS-BFGL-NGS-29412	57.24255	37096378
16	BTB-00637565	57.24459	37123691
16	ARS-BFGL-NGS-56666	57.24664	37151009
16	BTA-38739-no-rs	57.24839	37174363
16	BTA-38725-no-rs	57.25004	37196505
16	BTA-38719-no-rs	57.2525	37229378
16	ARS-BFGL-NGS-97475	57.25401	37249521
16	Hapmap42928-BTA-38715	57.2562	37278839
16	BTB-00637174	57.2585	37309624
16	Hapmap53705-rs29017272	57.2604	37334918
16	BTB-02086174	57.26217	37358550
16	BTB-00635242	57.26463	37391539
16	BTA-38608-no-rs	57.27121	37479436
16	BTA-38611-no-rs	57.27934	37588148
16	Hapmap59208-rs29014503	57.28528	37667552
16	BTA-08063-rs29021630	57.28851	37710632
16	BTB-00635473	57.29132	37748202
16	ARS-BFGL-NGS-34764	57.29428	37787772
16	BTA-38752-no-rs	57.30093	37876689
16	BTB-00637941	57.30298	37904090
16	ARS-BFGL-NGS-61126	57.30541	37936588
16	ARS-BFGL-NGS-110100	57.30883	37982355
16	Hapmap49144-BTA-38766	57.31219	38027156
16	ARS-BFGL-NGS-39390	57.31458	38059137
16	ARS-BFGL-NGS-56401	57.3189	38116988
16	BTB-00634111	57.32196	38157791
16	BTB-00634141	57.32381	38182476
16	BTB-00638525	57.32673	38221607
16	BTA-38771-no-rs	57.32998	38265003
16	ARS-BFGL-NGS-118830	57.33454	38325971
16	ARS-BFGL-NGS-61064	57.33653	38352595
16	BTB-00638691	57.33848	38378642
16	BTB-00638788	57.34304	38439622
16	Hapmap50260-BTA-121056	57.34618	38481520
16	Hapmap39787-BTA-87100	57.35147	38552268
16	BTB-00638892	57.35439	38591294
16	Hapmap59153-rs29013340	57.35719	38628647
16	Hapmap47936-BTA-38791	57.36029	38670199
16	Hapmap32553-BTA-130707	57.36464	38728314
16	BTB-01774663	57.36786	38771332
16	Hapmap49145-BTA-38799	57.37053	38807074
16	Hapmap49591-BTA-38802	57.37228	38830470
16	ARS-BFGL-NGS-117892	57.37949	38926711
16	BTB-00639530	57.38135	38951694
16	ARS-BFGL-NGS-114895	57.38652	39020789
16	BTA-38808-no-rs	57.38906	39054692
16	ARS-BFGL-NGS-58729	57.39058	39074975
16	Hapmap46997-BTA-38814	57.39823	39177285
16	Hapmap50852-BTA-104990	57.40817	39310197
16	Hapmap47598-BTA-38857	57.42637	39553476
16	BTB-00639647	57.42873	39585031
16	Hapmap54479-rs29024702	57.43283	39639717
16	BTA-38825-no-rs	57.43446	39661540
16	BTB-00639780	57.43661	39690375

16	Hapmap54735-ss46526095	57.45993	40001986
16	ARS-BFGL-NGS-40365	57.46424	40059619
16	BTB-01197909	57.46624	40086288
16	Hapmap44336-BTA-108924	57.47183	40161072
16	BTA-100038-no-rs	57.47653	40223873
16	BTB-00022283	57.47897	40256486
16	BTB-00022322	57.48088	40282077
16	BTB-01549587	57.48295	40309659
16	BTB-00640216	57.48759	40371695
16	BTA-38861-no-rs	57.48946	40396751
16	ARS-BFGL-NGS-22512	57.52071	40814491
16	ARS-BFGL-NGS-115743	57.52313	40846801
16	BTA-38871-no-rs	57.52567	40880683
16	BTA-38873-no-rs	57.52842	40917399
16	Hapmap56619-rs29009970	57.53218	40967694
16	Hapmap49592-BTA-38891	57.5358	41016073
16	BTA-38885-no-rs	57.54441	41131268
16	Hapmap49147-BTA-38883	57.54915	41194530
16	BTB-00640427	57.55409	41260623
16	Hapmap47278-BTA-38875	57.55582	41283716
16	ARS-BFGL-NGS-53039	57.56043	41345308
16	ARS-BFGL-NGS-115201	57.58432	41664706
16	ARS-BFGL-NGS-101656	57.60884	41992472
16	Hapmap50595-BTA-121064	57.6093	41998547
16	ARS-BFGL-NGS-20750	57.6135	42054675
16	BTB-00648691	57.61625	42091498
16	ARS-BFGL-NGS-10761	57.62261	42176506
16	Hapmap59580-rs29024595	57.62482	42206083
16	BTB-01495723	57.62904	42262470
16	ARS-BFGL-BAC-2271	57.63834	42386711
16	BTB-01567754	57.64018	42411339
16	BTB-01930898	57.64443	42468099
16	Hapmap40674-BTA-121055	57.65618	42625201
16	ARS-BFGL-NGS-16939	57.65931	42667035
16	ARS-BFGL-NGS-36317	57.66079	42686848
16	Hapmap46217-BTA-38576	57.66403	42730174
16	UA-IFASA-6048	57.66978	42806930
16	ARS-BFGL-NGS-93563	57.6725	42843345
16	BTB-00634841	57.67617	42892437
16	ARS-BFGL-NGS-84156	57.67988	42941953
16	ARS-BFGL-NGS-105853	57.69277	43114240
16	BTB-00635022	57.69724	43174027
16	DPI-35	57.71199	43371269
16	Hapmap51220-BTA-38598	57.72171	43501100
16	ARS-BFGL-NGS-25260	57.72328	43522152
16	Hapmap45799-BTA-38599	57.73227	43642297
16	ARS-BFGL-NGS-111432	57.73639	43697344
16	ARS-BFGL-NGS-5291	57.73976	43742398
16	ARS-BFGL-NGS-104690	57.74485	43810410
16	ARS-BFGL-NGS-53805	57.74765	43847822
16	BTA-38605-no-rs	57.75008	43880343
16	ARS-BFGL-NGS-64663	57.75327	43922935
16	ARS-BFGL-NGS-37851	57.76212	44041273
16	ARS-BFGL-NGS-22302	57.76475	44076390
16	ARS-BFGL-NGS-95033	57.76772	44116147
16	BTA-38936-no-rs	57.77036	44151335
16	BTA-38929-no-rs	57.7722	44176019
16	Hapmap39326-BTA-38925	57.77577	44223723
16	ARS-BFGL-NGS-13513	57.79339	44459269

16	ARS-BFGL-NGS-64018	57.8332	44991382
16	BTB-00641823	57.83518	45017787
16	ARS-BFGL-NGS-117836	57.83755	45049521
16	BTB-00641933	57.84513	45150817
16	Hapmap47279-BTA-38917	57.84802	45189489
16	BTB-00640892	57.84863	45197527
16	ARS-BFGL-NGS-40844	57.85102	45229504
16	ARS-BFGL-NGS-116074	57.85701	45309651
16	ARS-BFGL-NGS-60804	57.86084	45376614
16	ARS-BFGL-NGS-89773	57.90966	46069918
16	ARS-BFGL-NGS-114924	57.91902	46093561
16	ARS-BFGL-NGS-14980	57.94529	46159900
16	BTA-38916-no-rs	57.95814	46192353
16	UA-IFASA-9007	57.96645	46213318
16	BTA-38910-no-rs	58.08387	46509837
16	ARS-BFGL-NGS-78700	58.12982	46625869
16	ARS-BFGL-NGS-119497	58.17418	46737873
16	ARS-BFGL-NGS-113886	58.1878	46772261
16	ARS-BFGL-NGS-14021	58.23354	46887759
16	BTB-00642563	58.24337	46912602
16	ARS-BFGL-NGS-57549	58.25311	46937172
16	ARS-BFGL-NGS-28769	58.26636	46970643
16	BTB-00642704	58.27641	46996022
16	BTB-01961189	58.28846	47026456
16	ARS-BFGL-NGS-110930	58.31433	47091783
16	Hapmap52246-rs29010319	58.32966	47130482
16	BTB-00642189	58.34377	47166105
16	ARS-BFGL-NGS-33431	58.35794	47201903
16	ARS-BFGL-NGS-39956	58.38433	47268530
16	ARS-BFGL-NGS-40078	58.39705	47300644
16	Hapmap46808-BTA-39049	58.41	47367684
16	BTA-39051-no-rs	58.41	47405443
16	ARS-BFGL-NGS-89177	58.41	47443681
16	ARS-BFGL-NGS-78134	58.41	47528480
16	BTB-00058501	58.41	47558131
16	Hapmap7498-BTA-51373	58.41	47595682
16	ARS-BFGL-NGS-104029	58.41	47618914
16	BTB-00644303	58.55109	47680564
16	ARS-BFGL-NGS-115895	58.75292	47741821
16	Hapmap23608-BTA-39066	58.88139	47780813
16	Hapmap54267-rs29023167	58.95087	47850219
16	ARS-BFGL-NGS-104107	58.97596	47915961
16	ARS-BFGL-NGS-18661	58.98611	47942535
16	ARS-BFGL-BAC-27653	58.99706	47971231
16	ARS-BFGL-NGS-107812	59.02659	48048566
16	ARS-BFGL-NGS-43304	59.04183	48088496
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16	ARS-BFGL-NGS-3487	59.08525	48202211
16	ARS-BFGL-NGS-59927	59.09565	48229459
16	ARS-BFGL-NGS-32498	59.51393	48319575
16	ARS-BFGL-NGS-100489	59.54123	48348481
16	ARS-BFGL-NGS-111082	59.59525	48405692
16	ARS-BFGL-NGS-69023	59.61501	48426621
16	ARS-BFGL-NGS-42484	59.64104	48454197
16	ARS-BFGL-NGS-110023	59.68586	48501656
16	ARS-BFGL-NGS-105711	59.72663	48544837
16	ARS-BFGL-NGS-5364	59.80454	48627347
16	ARS-BFGL-NGS-77903	59.86799	48694547
16	BTB-00643802	59.89742	48725717



16	ARS-BFGL-NGS-106125	59.93107	48761352
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16	ARS-BFGL-NGS-79726	60.04287	48879755
16	ARS-BFGL-NGS-13555	60.09616	48936190
16	BTB-00643941	60.1333	48975518
16	ARS-BFGL-NGS-35038	60.25201	49101247
16	BTB-02095583	60.28336	49134438
16	Hapmap41252-BTA-39046	60.3	49176040
16	ARS-BFGL-BAC-32069	61.0651	49533184
16	ARS-BFGL-NGS-76897	61.15965	49568812
16	ARS-BFGL-NGS-40640	61.58856	49730423
16	ARS-BFGL-NGS-43639	62.01395	49844428
16	ARS-BFGL-NGS-91503	62.10617	49867758
16	BTB-01675591	62.2752	49910530
16	ARS-BFGL-NGS-15747	62.56622	49984163
16	Hapmap57710-rs29018089	62.72	50046534
16	Hapmap60283-rs29014986	62.72	50076028
16	ARS-BFGL-NGS-4866	62.72	50095343
16	ARS-BFGL-NGS-106467	62.72839	50122544
16	ARS-BFGL-NGS-43029	62.78982	50183192
16	BTB-01842164	62.86411	50256549
16	ARS-BFGL-NGS-30941	62.88906	50281187
16	BTA-109721-no-rs	62.91042	50302273
16	ARS-BFGL-NGS-26113	62.93452	50326081
16	ARS-BFGL-NGS-85931	62.97187	50362955
16	ARS-BFGL-NGS-1082	62.99291	50383731
16	ARS-BFGL-NGS-96028	63.02936	50419718
16	ARS-BFGL-NGS-64134	63.06831	50458174
16	ARS-BFGL-NGS-17881	63.09747	50486976
16	Hapmap53192-rs29010907	63.1284	50517509
16	ARS-BFGL-NGS-7007	63.16178	50550475
16	Hapmap58832-rs29018603	63.28852	50670749
16	ARS-BFGL-NGS-6659	63.34279	50693301
16	ARS-BFGL-NGS-116784	63.44877	50737342
16	ARS-BFGL-NGS-59272	63.50218	50759541
16	ARS-BFGL-NGS-28402	63.59544	50798300
16	ARS-BFGL-NGS-32187	63.75095	50862929
16	ARS-BFGL-NGS-26480	63.83264	50896880
16	ARS-BFGL-NGS-44177	63.90979	50928943
16	ARS-BFGL-NGS-119467	64.00013	50966489
16	ARS-BFGL-NGS-77093	64.10743	51011081
16	ARS-BFGL-NGS-111918	64.23256	51063083
16	ARS-BFGL-NGS-92628	64.30984	51095203
16	ARS-BFGL-NGS-40530	64.45296	51154678
16	ARS-BFGL-NGS-115904	64.55106	51195450
16	ARS-BFGL-NGS-34195	64.61323	51221289
16	ARS-BFGL-NGS-54867	64.72421	51267407
16	ARS-BFGL-NGS-93273	64.80234	51299881
16	BTB-00645185	64.87436	51329811
16	Hapmap49818-BTA-98449	65.13021	51436142
16	ARS-BFGL-NGS-66252	65.25148	51486543
16	ARS-BFGL-NGS-32604	65.35252	51520569
16	ARS-BFGL-NGS-62674	65.67957	51595210
16	ARS-BFGL-NGS-39382	65.7962	51621826
16	ARS-BFGL-NGS-27603	65.97017	51661530
16	ARS-BFGL-NGS-30451	66.09848	51690811
16	Hapmap39327-BTA-39134	66.19426	51738339
16	ARS-BFGL-NGS-4056	66.24453	51769893

16	ARS-BFGL-NGS-74373	66.31065	51811400
16	ARS-BFGL-NGS-17391	66.34546	51833247
16	UA-IFASA-9207	66.47482	51914451
16	ARS-BFGL-NGS-41367	66.51923	51942323
16	ARS-BFGL-NGS-18487	66.76397	52095950
16	BTB-00646135	66.83607	52141211
16	BTB-00646146	66.87965	52168565
16	BTB-00646159	66.94844	52211744
16	ARS-BFGL-NGS-20017	67.0985	52305937
16	ARS-BFGL-NGS-105721	67.21494	52379029
16	ARS-BFGL-NGS-27516	67.42419	52510377
16	ARS-BFGL-NGS-95716	67.66517	52661645
16	ARS-BFGL-NGS-1346	67.71853	52695137
16	ARS-BFGL-NGS-116396	67.86375	52786297
16	BTB-00649201	67.9208	52822104
16	ARS-BFGL-NGS-5299	68.00831	52877037
16	BTA-39310-no-rs	68.08884	52927589
16	ARS-BFGL-NGS-78363	68.16467	52975189
16	UA-IFASA-8741	68.31595	53070045
16	ARS-BFGL-NGS-112066	68.36162	53097936
16	ARS-BFGL-NGS-29020	68.52837	53199787
16	ARS-BFGL-NGS-40099	68.65856	53279306
16	BTA-39204-no-rs	68.74319	53330998
16	ARS-BFGL-NGS-81746	68.78112	53354164
16	BTB-00646727	68.82085	53378432
16	ARS-BFGL-NGS-15187	68.85468	53399092
16	ARS-BFGL-NGS-117470	68.91209	53434159
16	Hapmap40727-BTA-39195	68.97243	53471014
16	ARS-BFGL-NGS-33446	69.02676	53504199
16	ARS-BFGL-NGS-43477	69.1096	53554791
16	ARS-BFGL-NGS-108133	69.14822	53578384
16	Hapmap40529-BTA-39188	69.19358	53606090
16	ARS-BFGL-NGS-18068	69.29929	53670653
16	ARS-BFGL-NGS-63175	69.73755	53755847
16	BTA-39180-no-rs	69.84709	53777067
16	ARS-BFGL-NGS-89126	69.9834	53803470
16	ARS-BFGL-NGS-40240	70.4278	53889556
16	ARS-BFGL-NGS-22730	70.5962	53922176
16	ARS-BFGL-NGS-82427	70.7	53976478
16	ARS-BFGL-NGS-111268	70.7	54046062
16	ARS-BFGL-NGS-4023	70.77304	54134054
16	ARS-BFGL-NGS-16757	70.83187	54156449
16	BTB-00646000	70.91257	54187160
16	ARS-BFGL-NGS-17987	70.99941	54220215
16	ARS-BFGL-NGS-117525	71.09048	54271046
16	ARS-BFGL-NGS-32469	71.21615	54347701
16	ARS-BFGL-NGS-39050	71.24983	54368248
16	ARS-BFGL-NGS-45648	71.52564	54536490
16	BTB-00645876	71.56	54561488
16	BTB-01825296	71.56	54634026
16	BTA-39215-no-rs	71.56	54664681
16	ARS-BFGL-NGS-29043	71.56	54691747
16	BTB-00647119	71.56	54775716
16	BTB-00647391	71.56	54814128
16	ARS-BFGL-NGS-84228	71.56	54846459
16	ARS-BFGL-NGS-53540	71.56	54853614
16	Hapmap44067-BTA-39236	71.57703	54886491
16	ARS-BFGL-NGS-97162	71.6563	54926086
16	ARS-BFGL-NGS-117449	71.93324	55064448

16	ARS-BFGL-NGS-2833	71.97487	55085247	
16	Hapmap39827-BTA-39283	72.22315	55209290	
16	ARS-BFGL-NGS-93176	72.284	55239686	
16	BTA-96884-no-rs	72.3282	55261770	
16	UA-IFASA-2310	72.45695	55326091	
16	Hapmap26379-BTA-130999	72.6	55397555	
16	BTB-00648332	72.64864	55421856	
16	ARS-BFGL-NGS-4825	72.73786	55466432	
16	ARS-BFGL-NGS-27776	72.95875	55576782	
16	ARS-BFGL-NGS-12119	73.0005	55597650	
16	ARS-BFGL-NGS-103170	73.04516	55619955	
16	ARS-BFGL-NGS-112035	73.09324	55643975	
16	ARS-BFGL-NGS-114245	73.18472	55689680	
16	BTB-01573379	73.37464	55784564	
16	BTB-01940243	73.62447	55909374	
16	ARS-BFGL-NGS-116668	73.71259	55953402	
16	BTB-01252961	74.26666	56242507	
16	ARS-BFGL-NGS-27527	74.34409	56284512	
16	BTB-00649247	74.42068	56326065	
16	BTB-00649316	74.44788	56340812	
16	BTB-00649412	74.56632	56405068	
16	ARS-BFGL-NGS-62509	74.64719	56448934	
16	BTB-00649471	74.72213	56489594	
16	BTB-00649510	74.86047	56564641	
16	BTB-01991559	74.92801	56601275	
16	ARS-BFGL-NGS-40776	74.97584	56627224	
16	BTA-53124-no-rs	75.0523	56668701	
16	UA-IFASA-4552	75.13882	56715642	
16	Hapmap43609-BTA-53126	75.1963	56746817	
16	BTB-00827920	75.27004	56786826	
16	ARS-BFGL-BAC-32787	75.30067	56803437	
16	ARS-BFGL-NGS-111010	75.35724	56834127	
16	BTB-00828197	75.57556	56952563	
16	BTB-01593521	75.65743	56996623	
16	BTB-01593511	75.72382	57032020	
16	ARS-BFGL-NGS-4896	75.87772	57114068	
16	BTA-39561-no-rs	76.03503	57197935	
16	Hapmap48316-BTA-39565	76.11341	57239720	
16	Hapmap43258-BTA-39566	76.1593	57264184	
16	ARS-BFGL-BAC-33390	76.37741	57380464	
16	ARS-BFGL-NGS-19570	76.413	57399441	
16	Hapmap51223-BTA-39572	76.45111	57419757	
16	BTB-00651594	76.54373	57469137	
16	BTB-00651646	76.58309	57491373	
16	ARS-BFGL-NGS-24802	76.63176	57521967	
16	BTB-00651958	76.66868	57545177	
16	Hapmap41858-BTA-39601	76.76297	57644356	
16	ARS-BFGL-NGS-13155	76.77593	57675039	
16	UA-IFASA-9599	76.79268	57714658	
16	BTB-00652464	76.82378	57788263	
16	BTA-39611-no-rs	76.86613	57888452	
16	ARS-BFGL-NGS-34518	76.89406	57954537	
16	Hapmap39561-BTA-39613	76.90958	57991270	
16	BTB-00652713	76.92732	58033251	
16	ARS-BFGL-NGS-111339	76.94809	58082382	
16	ARS-BFGL-NGS-18564	77.09488	58217929	
16	Hapmap36690-SCAFFOLD215098_29103		77.15741	58239620
16	Hapmap29809-BTA-131065	77.30337	58290248	
16	ARS-BFGL-NGS-11534	77.63644	58405786	

16	ARS-BFGL-NGS-104311	77.70928	58431049	
16	ARS-BFGL-NGS-111970	77.82563	58471410	
16	ARS-BFGL-NGS-108847	77.90878	58500249	
16	ARS-BFGL-NGS-1152	78.03262	58543206	
16	ARS-BFGL-NGS-113482	78.132	58577681	
16	ARS-BFGL-NGS-20426	78.20946	58604549	
16	ARS-BFGL-BAC-34694	78.3428	58650800	
16	ARS-BFGL-NGS-1639	78.50512	58707106	
16	ARS-BFGL-NGS-116297	78.77239	58855917	
16	Hapmap49101-BTA-26374	78.88293	58941100	
16	BTB-01344067	79.09032	58997236	
16	BTB-01344103	79.24107	59021630	
16	Hapmap36492-SCAFFOLD70736_3033		79.42876	59052006
16	Hapmap39268-BTA-38033	79.54661	59101134	
16	ARS-BFGL-NGS-70636	79.56676	59127147	
16	Hapmap41703-BTA-97902	79.61414	59188330	
16	ARS-BFGL-NGS-24236	79.67881	59271825	
16	BTB-00648059	79.83909	59478763	
16	BTB-00648053	79.85619	59500854	
16	ARS-BFGL-NGS-31474	79.87294	59522476	
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16	BTB-00647886	79.96255	59638184	
16	ARS-BFGL-NGS-43143	79.98082	59661760	
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16	BTA-39256-no-rs	80.01659	59707948	
16	BTB-00647613	80.04274	59741713	
16	ARS-BFGL-NGS-44054	80.07125	59778522	
16	ARS-BFGL-NGS-117400	80.10639	59823898	
16	BTA-123154-no-rs	80.12811	59851930	
16	ARS-BFGL-NGS-98864	80.14915	59879095	
16	ARS-BFGL-NGS-34229	80.17987	59918768	
16	ARS-BFGL-NGS-5499	80.19614	59939771	
16	ARS-BFGL-NGS-22885	80.22107	59971956	
16	ARS-BFGL-NGS-129	80.24982	60009076	
16	ARS-BFGL-NGS-111532	80.2698	60034876	
16	ARS-BFGL-NGS-97961	80.31464	60092780	
16	ARS-BFGL-NGS-89320	80.34335	60129846	
16	BTA-48320-no-rs	80.36324	60155510	
16	Hapmap43591-BTA-48322	80.38329	60181412	
16	ARS-BFGL-NGS-40851	80.43523	60248470	
16	Hapmap50348-BTA-39557	80.49519	60325887	
16	Hapmap39916-BTA-39556	80.52599	60365660	
16	Hapmap58094-rs29011293	80.54288	60387468	
16	BTB-00650697	80.57467	60428507	
16	BTB-02032698	80.59237	60451357	
16	ARS-BFGL-NGS-104701	80.61437	60479768	
16	ARS-BFGL-NGS-112382	80.62699	60496060	
16	ARS-BFGL-NGS-100490	80.65131	60527452	
16	Hapmap47968-BTA-48335	80.69128	60579059	
16	ARS-BFGL-NGS-68533	80.71912	60615012	
16	ARS-BFGL-NGS-114117	80.77946	60692918	
16	ARS-BFGL-NGS-30406	80.80249	60722653	
16	ARS-BFGL-NGS-42305	80.83382	60763111	
16	Hapmap30034-BTA-154964	80.85506	60790535	
16	Hapmap38516-BTA-65820	81.06707	61064265	
16	BTA-65815-no-rs	81.1296	61163678	
16	BTB-01029770	81.1475	61221637	
16	BTB-01492749	81.16451	61276719	
16	ARS-BFGL-NGS-29032	81.18175	61332532	

16	ARS-BFGL-NGS-38384	81.19689	61381572	
16	ARS-BFGL-NGS-116142	81.20804	61417656	
16	ARS-BFGL-NGS-102798	81.22664	61477887	
16	Hapmap26502-BTA-39343	81.24325	61531686	
16	BTB-00650039	81.25	61609265	
16	BTB-00650072	81.27756	61668331	
16	BTB-00650136	81.33242	61716582	
16	ARS-BFGL-NGS-109438	81.38126	61759526	
16	BTB-00650214	81.4172	61791136	
16	BTB-00650223	81.45782	61826855	
16	ARS-BFGL-NGS-43495	81.52106	61882477	
16	BTB-00650263	81.5781	61932640	
16	BTB-01732320	81.61003	61960715	
16	Hapmap56001-rs29023690	81.64941	61995348	
16	BTB-00653779	81.71687	62073492	
16	Hapmap48317-BTA-39702	81.73888	62100110	
16	ARS-BFGL-NGS-21857	81.76749	62134743	
16	BTB-00653808	81.80466	62179726	
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16	ARS-BFGL-NGS-64237	81.95558	62361331	
16	ARS-BFGL-NGS-12581	81.9981	62404849	
16	BTB-00653397	82.03904	62446752	
16	BTA-39689-no-rs	82.14537	62555582	
16	BTB-01686521	82.32046	62734784	
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16	ARS-BFGL-NGS-113382	82.4224	62839123	
16	ARS-BFGL-NGS-117800	82.45445	62871926	
16	ARS-BFGL-NGS-33551	82.48304	62901191	
16	ARS-BFGL-NGS-40670	82.52926	62948497	
16	ARS-BFGL-NGS-39677	82.57372	62993997	
16	BTA-39328-no-rs	82.62709	63048628	
16	ARS-BFGL-NGS-18402	82.77296	63210323	
16	BTB-01090859	82.80507	63248646	
16	ARS-BFGL-NGS-57262	82.83449	63283756	
16	ARS-BFGL-NGS-102876	83.03397	63521833	
16	Hapmap25615-BTA-160036	83.05693	63549240	
16	ARS-BFGL-NGS-45195	83.10958	63612072	
16	ARS-BFGL-NGS-116453	83.20526	63721883	
16	ARS-BFGL-NGS-116493	83.29639	63825968	
16	ARS-BFGL-NGS-71753	83.33741	63872811	
16	ARS-BFGL-NGS-114299	83.35616	63894221	
16	ARS-BFGL-NGS-30501	83.39624	63940004	
16	BTB-01090150	83.438	63987694	
16	ARS-BFGL-NGS-89882	83.46577	64019417	
16	ARS-BFGL-NGS-31199	83.50291	64061829	
16	BTB-01547185	83.52846	64091006	
16	ARS-BFGL-NGS-13455	83.55116	64116934	
16	ARS-BFGL-NGS-61980	83.61949	64194978	
16	ARS-BFGL-NGS-105453	83.66447	64246344	
16	ARS-BFGL-BAC-34703	83.76334	64359255	
16	ARS-BFGL-NGS-24788	83.78783	64387234	
16	BTB-01201135	83.81668	64420184	
16	Hapmap41422-BTA-109294	83.83711	64443511	
16	BTA-109296-no-rs	83.85679	64465987	
16	BTB-01201199	83.90127	64516788	
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16	Hapmap34585-BES1_Contig550_727	83.99467	64623464	
16	ARS-BFGL-NGS-68429	84.03362	64667941	
16	Hapmap23825-BTA-154292	84.06808	64705320	

16	Hapmap58492-rs29016957	84.093	64731044
16	BTB-01592115	84.12558	64764674
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16	ARS-BFGL-NGS-16165	84.23045	64872924
16	ARS-BFGL-NGS-23497	84.26059	64904049
16	UA-IFASA-8234	84.28396	64928171
16	Hapmap52108-ss46526959	84.30399	64948839
16	BTA-94860-no-rs	84.32578	64971348
16	ARS-BFGL-NGS-10682	84.35894	65005571
16	ARS-BFGL-NGS-23634	84.39225	65039957
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16	ARS-BFGL-BAC-35310	84.49385	65144838
16	ARS-BFGL-NGS-31205	84.52095	65172819
16	ARS-BFGL-NGS-38666	84.56793	65221315
16	ARS-BFGL-BAC-35312	84.60278	65257286
16	BTB-02040078	84.64214	65301999
16	BTB-00653188	84.65145	65329296
16	UA-IFASA-6164	84.67111	65386980
16	BTA-119130-no-rs	84.70839	65496350
16	Hapmap58052-rs29013977	84.75569	65635111
16	Hapmap42930-BTA-39624	84.76752	65669824
16	BTB-00652797	84.77623	65695370
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16	ARS-BFGL-NGS-76566	84.8051	65780072
16	ARS-BFGL-NGS-22403	84.83	65853622
16	Hapmap49595-BTA-39631	84.83	65875694
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16	BTB-00653766	84.83	66112022
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16	ARS-BFGL-NGS-101997	84.83	66404619
16	BTB-00220507	84.83	66446261
16	Hapmap39381-BTA-118849	84.83	66543047
16	BTB-01650090	84.83	66609042
16	BTB-01650065	84.83	66644320
16	Hapmap42869-BTA-21180	84.83	66676299
16	Hapmap59629-rs29013680	84.83	66729065
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16	ARS-BFGL-BAC-35318	84.83	66863251
16	BTB-00654004	84.83	66901481
16	BTB-00653980	84.83	66927172
16	BTB-00654034	84.83	66959283
16	BTA-39731-no-rs	84.83	66993967
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16	ARS-BFGL-NGS-52611	84.83639	67128416
16	ARS-BFGL-NGS-45685	84.8801	67159362
16	BTA-39763-no-rs	84.92717	67192692
16	ARS-BFGL-NGS-45607	85.03614	67269841
16	ARS-BFGL-NGS-116988	85.10841	67321001
16	Hapmap59190-rs29010371	85.12562	67333187
16	ARS-BFGL-NGS-42890	85.26131	67429246
16	ARS-BFGL-BAC-2256	85.35292	67494109

16	ARS-BFGL-NGS-29899	85.38512	67586827	
16	ARS-USMARC-Parent-AY857620-rs17871214	85.38905	67607778	
16	ARS-BFGL-NGS-5212	85.39205	67623790	
16	ARS-BFGL-NGS-62668	85.39763	67653515	
16	BTA-26576-no-rs	85.4343	67703949	
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16	BTB-01346090	85.53067	67810157	
16	BTB-01958090	85.65908	67951682	
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16	BTA-39761-no-rs	85.73875	68039470	
16	Hapmap43259-BTA-39756	85.76566	68069139	
16	ARS-BFGL-BAC-35319	85.8004	68107424	
16	Hapmap38672-BTA-39747	85.84798	68159857	
16	ARS-BFGL-BAC-35323	85.86726	68181113	
16	BTB-00654719	85.89609	68212874	
16	Hapmap48318-BTA-39745	85.92339	68242962	
16	Hapmap50677-BTA-39741	85.95045	68272784	
16	ARS-BFGL-NGS-26201	85.9799	68305243	
16	Hapmap59847-rs29025534	86.01756	68346747	
16	ARS-BFGL-NGS-5658	86.05815	68391483	
16	BTB-00654373	86.07917	68414637	
16	ARS-BFGL-NGS-96271	86.16518	68513565	
16	Hapmap52518-rs29018446	86.18843	68557811	
16	BTA-39833-no-rs	86.20188	68583403	
16	ARS-BFGL-NGS-9720	86.22115	68620055	
16	BTB-00656287	86.24409	68663695	
16	BTB-00656135	86.28834	68747873	
16	Hapmap52389-rs29027509	86.30791	68785131	
16	BTA-39826-no-rs	86.32199	68811897	
16	ARS-BFGL-NGS-54830	86.36263	68889225	
16	ARS-BFGL-NGS-89998	86.39416	68949196	
16	BTA-39797-no-rs	86.41125	68981703	
16	ARS-BFGL-NGS-53971	86.43195	69021106	
16	UA-IFASA-8429	86.44058	69037516	
16	BTA-107407-no-rs	86.47748	69107713	
16	BTA-39836-no-rs	86.50879	69167269	
16	ARS-BFGL-NGS-81253	86.52743	69202739	
16	Hapmap40306-BTA-39850	86.59087	69323428	
16	ARS-BFGL-NGS-79080	86.60114	69342974	
16	Hapmap39462-BTA-111304	86.63764	69412417	
16	ARS-BFGL-NGS-30006	86.67098	69475845	
16	ARS-BFGL-BAC-35326	86.68319	69499076	
16	BTB-01660545	86.73096	69589954	
16	Hapmap35209-BES8_Contig327_1499	86.76709	69658690	
16	Hapmap33514-BTA-158988	86.78168	69686453	
16	Hapmap42075-BTA-114094	86.81656	69752797	
16	Hapmap46938-BTA-114095	86.83903	69795545	
16	ARS-BFGL-NGS-111869	86.85002	69816467	
16	ARS-BFGL-NGS-113069	86.86629	69847424	
16	Hapmap59558-rs29017112	86.90688	69911268	
16	BTB-01188142	86.93015	69937124	
16	Hapmap49429-BTA-107409	86.95391	69963515	
16	BTB-01188274	86.97843	69990750	
16	ARS-BFGL-NGS-116637	87.00008	70014805	
16	BTB-01188312	87.0443	70063939	
16	ARS-BFGL-NGS-117468	87.08323	70107175	
16	ARS-BFGL-NGS-55038	87.10154	70127523	
16	Hapmap51136-BTA-107420	87.12646	70155204	
16	Hapmap50856-BTA-107430	87.16154	70194181	

16	BTB-01891275	87.18488	70220110
16	BTA-39971-no-rs	87.25	70315528
16	ARS-BFGL-NGS-103416	87.25	70338655
16	ARS-BFGL-NGS-113249	87.25	70418753
16	ARS-BFGL-BAC-35331	87.25	70494400
16	BTB-00658395	87.25	70519576
16	BTB-00658384	87.25	70547085
16	Hapmap38157-BTA-39948	87.25	70577587
16	ARS-BFGL-NGS-17698	87.25	70598954
16	ARS-BFGL-NGS-69979	87.25	70621699
16	ARS-BFGL-NGS-13451	87.25	70728849
16	ARS-BFGL-NGS-19358	87.25	70754436
16	ARS-BFGL-NGS-66559	87.27182	70816380
16	ARS-BFGL-NGS-100306	87.35422	70882322
16	ARS-BFGL-NGS-29266	87.38406	70906202
16	ARS-BFGL-NGS-69228	87.65854	71125864
16	ARS-BFGL-NGS-20204	87.70509	71163115
16	Hapmap51442-BTA-39855	87.76238	71208967
16	BTA-06182-rs29020546	87.81247	71249045
16	BTB-00658677	87.84275	71273279
16	BTB-00658688	87.87231	71296941
16	ARS-BFGL-NGS-43704	87.93762	71349209
16	BTB-00658877	87.98504	71387150
16	ARS-BFGL-NGS-42703	88.04051	71431541
16	ARS-BFGL-NGS-3098	88.10813	71485655
16	BTB-00658966	88.14678	71516591
16	Hapmap28347-BTA-131196	88.1919	71552698
16	ARS-BFGL-NGS-39075	88.22919	71582546
16	Hapmap50200-BTA-106536	88.42078	71735866
16	ARS-BFGL-BAC-35338	88.46818	71773792
16	UA-IFASA-8339	88.56466	71851007
16	ARS-BFGL-BAC-2259	88.60847	71886071
16	ARS-BFGL-NGS-15086	88.71488	71944945
16	ARS-BFGL-NGS-21257	88.75816	71968734
16	ARS-BFGL-NGS-114366	88.8514	72019993
16	ARS-BFGL-NGS-17251	89.02346	72114575
16	Hapmap59054-rs29015996	89.07381	72142255
16	BTB-00659112	89.11681	72165897
16	ARS-BFGL-NGS-29292	89.28707	72259491
16	ARS-BFGL-NGS-101084	89.40153	72322411
16	BTB-00659445	89.48077	72365972
16	Hapmap48745-BTA-40019	89.68896	72480414
16	ARS-BFGL-NGS-80108	89.72706	72501362
16	Hapmap53215-rs29019312	89.85028	72569123
16	Hapmap60338-ss46526653	90.59695	72700904
16	BTB-00659960	90.85	72730715
16	ARS-BFGL-NGS-109968	90.85	72756801
16	BTA-40042-no-rs	90.85	72837597
16	ARS-BFGL-NGS-117036	90.85	72878045
16	Hapmap47281-BTA-40051	90.85	72931875
16	ARS-BFGL-NGS-116266	90.85	72962506
16	ARS-BFGL-NGS-3559	90.85	72983578
16	ARS-BFGL-NGS-118515	90.85	73024176
16	ARS-BFGL-NGS-35979	90.85	73069046
16	Hapmap44461-BTA-40052	90.86375	73108337
16	BTB-01724000	90.89066	73148406
16	BTB-00660315	90.94287	73226170
16	BTB-00660359	90.95787	73248498
16	ARS-BFGL-NGS-110639	90.98434	73287916



16	BTA-108613-no-rs	90.99812	73308430	
16	Hapmap47493-BTA-108616	91.01418	73332361	
16	ARS-BFGL-NGS-36241	91.03345	73361045	
16	BTA-40054-no-rs	91.06045	73401266	
16	BTA-40059-no-rs	91.07666	73425409	
16	BTB-00660594	91.11767	73486482	
16	Hapmap50350-BTA-40067	91.1454	73527778	
16	ARS-BFGL-NGS-11990	91.22017	73639121	
16	BTB-00660988	91.26898	73711818	
16	ARS-BFGL-NGS-36880	91.28559	73736551	
16	ARS-BFGL-NGS-84624	91.32953	73801988	
16	BTA-39866-no-rs	91.34303	73822080	
16	Hapmap47939-BTA-39867	91.35506	73840001	
16	ARS-BFGL-NGS-64329	91.37829	73874593	
16	Hapmap55487-rs29023215	91.39401	73898020	
16	ARS-BFGL-NGS-106233	91.41088	73923140	
16	BTB-00661933	91.46507	74003832	
16	Hapmap51565-BTA-122868	91.49367	74046418	
16	ARS-BFGL-NGS-15423	91.56877	74158269	
16	BTA-40122-no-rs	91.60492	74212100	
16	Hapmap48746-BTA-40116	91.65289	74283537	
16	BTB-00661744	91.66869	74307064	
16	ARS-BFGL-NGS-20274	91.68766	74335322	
16	BTB-00661682	91.75117	74429897	
16	UA-IFASA-8461	91.76654	74452786	
16	ARS-BFGL-NGS-31253	91.78597	74481728	
16	ARS-BFGL-NGS-32521	91.80671	74512606	
16	ARS-BFGL-BAC-27042	91.82024	74532751	
16	ARS-BFGL-NGS-101590	91.83386	74553047	
16	ARS-BFGL-NGS-114089	91.85278	74581221	
16	BTB-00661215	91.87791	74618645	
16	ARS-BFGL-NGS-88087	91.91185	74669187	
16	ARS-BFGL-NGS-70863	91.96057	74741746	
16	BTB-01403623	91.98366	74776127	
16	ARS-BFGL-NGS-64868	92.02979	74844828	
16	BTB-01586834	92.04684	74870220	
16	ARS-BFGL-NGS-99802	92.06	74999809	
16	Hapmap40214-BTA-29984	92.06	75067182	
16	BTB-01375890	92.09809	75081562	
16	Hapmap39023-BTA-39937	92.51054	75157698	
16	Hapmap34755-BES8_Contig485_491	92.80459	75211979	75211979
16	Hapmap41860-BTA-39932	92.91809	75232924	
16	ARS-BFGL-NGS-119222	92.97135	75262436	
16	ARS-BFGL-NGS-27657	92.99394	75305757	
16	ARS-BFGL-NGS-39705	93.01276	75341866	
16	BTB-00657957	93.03004	75374986	
16	Hapmap40287-BTA-39919	93.04697	75407446	
16	ARS-BFGL-NGS-110478	93.0604	75433212	
16	Hapmap29977-BTA-131179	93.07545	75462069	
16	Hapmap48744-BTA-39945	93.0947	75499010	
16	BTA-39939-no-rs	93.10672	75522046	
16	ARS-BFGL-NGS-92942	93.19476	75690887	
16	Hapmap36276-SCAFFOLD205344_10064	93.22433	75747590	75747590
16	ARS-BFGL-NGS-118270	93.25801	75812198	
16	ARS-BFGL-NGS-117928	93.27648	75847620	
16	ARS-BFGL-NGS-16705	93.29967	75892097	
16	ARS-BFGL-NGS-75819	93.32826	75946930	
16	ARS-BFGL-NGS-11391	93.35545	75999067	
16	ARS-BFGL-NGS-52928	93.37288	76032497	

16	ARS-BFGL-NGS-119489	93.38947	76064322	
16	ARS-BFGL-NGS-85980	93.40343	76091078	
16	BTB-01570194	93.42751	76137253	
16	ARS-BFGL-NGS-30784	93.43976	76160757	
16	BTB-00186125	93.44	76184036	
16	ARS-BFGL-NGS-80709	93.76585	76275809	
16	ARS-BFGL-NGS-17574	93.90825	76311292	
16	ARS-BFGL-NGS-75315	93.993	76332415	
16	ARS-BFGL-NGS-115312	94.14156	76369442	
16	BTB-01349445	94.24178	76394413	
16	ARS-BFGL-NGS-12995	94.3592	76423682	
16	ARS-BFGL-NGS-97711	94.75703	76522826	
16	Hapmap43538-BTA-26895	94.85099	76546241	
16	ARS-BFGL-NGS-117855	95.09193	76606285	
16	ARS-BFGL-NGS-37846	95.39192	76681045	
16	Hapmap35777-SCAFFOLD150103_16092	95.45914	76705457	
16	ARS-BFGL-NGS-113782	95.47826	76726251	
16	Hapmap59722-rs29025401	95.50835	76758969	
16	ARS-BFGL-NGS-17566	95.52873	76781132	
16	ARS-BFGL-NGS-59645	95.54885	76803009	
16	BTA-51931-no-rs	95.60588	76865027	
16	ARS-BFGL-NGS-109452	95.62676	76887727	
16	ARS-BFGL-NGS-118710	95.64693	76909654	
16	Hapmap47981-BTA-51932	95.67143	76936295	
16	ARS-BFGL-NGS-49089	95.69933	76966633	
16	ARS-BFGL-NGS-23665	95.75041	77022173	
16	ARS-BFGL-NGS-102714	95.78362	77058280	
16	ARS-BFGL-NGS-28112	95.83203	77110928	
16	ARS-BFGL-NGS-90340	95.86127	77142726	
16	ARS-BFGL-NGS-74380	95.88702	77170719	
16	ARS-BFGL-NGS-38175	95.96975	77260672	
16	ARS-BFGL-NGS-103526	95.99352	77286529	
16	ARS-BFGL-NGS-90489	96.0126	77307265	
16	BTA-40140-no-rs	96.03785	77334719	
16	ARS-BFGL-NGS-118752	96.09807	77400197	
16	ARS-BFGL-NGS-26422	96.16153	77469205	
16	Hapmap48320-BTA-40139	96.35819	77494615	
16	UA-IFASA-9698	96.65428	77519512	
16	ARS-BFGL-NGS-59425	97.18138	77563834	
16	ARS-BFGL-NGS-57054	98.15404	77648438	
16	BTB-02013769	98.4304	77673193	
16	ARS-BFGL-NGS-112110	98.9472	77719482	
16	ARS-BFGL-BAC-27060	99.01293	77755027	
16	ARS-BFGL-NGS-83757	99.03816	77789911	
16	ARS-BFGL-NGS-45653	99.06424	77825967	
16	ARS-BFGL-NGS-115906	99.11788	77900135	
16	BTB-01698874	99.23653	77939430	
16	ARS-BFGL-NGS-111601	99.39523	77973026	
16	ARS-BFGL-NGS-73960	99.62022	78020646	
16	ARS-BFGL-NGS-106184	99.94698	78089819	
16	ARS-BFGL-BAC-27669	100.0844	78118914	
16	Hapmap60572-rs29010980	100.268	78157760	
16	BTB-00662642	100.5026	78207433	
16	Hapmap50679-BTA-40141	100.51	78245301	
16	ARS-BFGL-NGS-115348	100.51	78285860	
16	ARS-BFGL-NGS-30589	100.51	78326946	
16	ARS-BFGL-NGS-56	100.51	78356180	
16	Hapmap42128-BTA-19809	100.51	78415671	
16	Hapmap32879-BTA-19804	100.51	78463670	

16	BTB-01299674	100.51	78508994	
16	Hapmap47537-BTA-19803	100.5205	78550797	
16	ARS-BFGL-NGS-60465	100.8044	78655234	
16	BTB-01299421	100.879	78682649	
16	BTB-01299331	101.019	78734156	
16	Hapmap46999-BTA-40226	101.0938	78761696	
16	ARS-BFGL-NGS-61574	101.1782	78792716	
16	ARS-BFGL-NGS-1259	101.2857	78832268	
16	BTA-24933-no-rs	101.503	78912226	
16	BTA-21401-no-rs	101.5772	78939515	
16	ARS-BFGL-NGS-100268	101.7728	79011465	
16	ARS-BFGL-NGS-14263	101.8533	79041075	
16	BTA-06911-no-rs	101.9129	79063017	
16	BTB-00663361	102.032	79106799	
16	BTB-00663340	102.1112	79135948	
16	BTB-01584700	102.1807	79161508	
16	BTA-105815-no-rs	102.2653	79192647	
16	ARS-BFGL-NGS-108444	102.3253	79214703	
16	ARS-BFGL-NGS-45870	102.538	79292968	
16	ARS-BFGL-NGS-84162	102.6842	79346744	
16	ARS-BFGL-NGS-13022	102.9635	79449472	
16	Hapmap47139-BTA-95567	103.2458	79553324	
16	BTA-95565-no-rs	103.325	79582483	
16	BTB-01062585	103.4268	79619910	
16	ARS-BFGL-NGS-102699	103.5313	79658368	
16	ARS-BFGL-NGS-41763	103.6325	79695579	
16	ARS-BFGL-NGS-116702	103.7004	79720573	
16	BTB-01062167	103.7736	79747502	
16	ARS-BFGL-NGS-100851	103.846	79774128	
16	ARS-BFGL-NGS-36059	104.1784	79896422	
16	BTB-01062025	104.261	79926805	
16	ARS-BFGL-NGS-77702	104.4878	80010239	
16	ARS-BFGL-NGS-94512	104.5813	80044633	
16	BTB-01061856	104.74	80103005	
16	ARS-BFGL-NGS-42222	104.8069	80127630	
16	ARS-BFGL-NGS-1297	105.0262	80208280	
16	ARS-BFGL-NGS-4646	105.5012	80351106	
16	Hapmap41692-BTA-95532	105.5508	80365527	
16	UA-IFASA-2353	105.5839	80375118	
16	BTA-95562-no-rs	105.6952	80407423	
16	ARS-BFGL-NGS-31481	105.8868	80463041	
16	Hapmap47138-BTA-95559	105.9825	80490825	
16	BTA-40219-no-rs	106.1089	80527514	
16	Hapmap41254-BTA-40217	106.2218	80560294	
16	ARS-BFGL-NGS-24452	106.4885	80637706	
16	Hapmap40216-BTA-40208	106.7638	80717601	
16	ARS-BFGL-NGS-72420	106.8478	80741974	
16	ARS-USMARC-Parent-DQ846695-no-rs	106.867	80747557	
16	BTB-00663761	106.988	80782671	
16	ARS-BFGL-NGS-93660	107.1113	80818462	
16	ARS-BFGL-NGS-52551	107.253	80859590	
16	BTB-00663735	107.4776	80924801	
16	BTB-00663523	107.6867	80985485	
16	ARS-BFGL-NGS-82451	107.7947	81016831	
16	ARS-BFGL-NGS-92680	108.0804	81099766	
16	ARS-BFGL-NGS-115041	108.4366	81203143	
16	BTB-01612388	108.5569	81238066	
16	ARS-BFGL-NGS-103911	108.8481	81322588	
17	BTB-01851867	0.1942077	111319	

17	BTB-01927707	0.2538291	147980		
17	ARS-BFGL-NGS-24459	0.3192922	188233		
17	Hapmap47605-BTA-40906	0.5819138	349718		
17	ARS-BFGL-NGS-114185	0.6598847	397662		
17	Hapmap41531-BTA-40863	0.7397844	446792		
17	BTB-00666435	0.7873875	476063		
17	Hapmap54135-rs29019936	0.9277413	562366		
17	ARS-BFGL-NGS-111865	1.067555	648337		
17	ARS-BFGL-NGS-84427	2.133409	839869		
17	ARS-USMARC-Parent-DQ888310-rs29012422	2.453405	887216		
17	Hapmap58330-rs29012425	2.92	991153		
17	ARS-BFGL-NGS-52666	3.079183	1041832		
17	ARS-BFGL-NGS-15395	3.561214	1180289		
17	ARS-BFGL-NGS-45119	3.845141	1261843		
17	BTB-01157350	4.05752	1322846		
17	ARS-BFGL-NGS-93031	4.138579	1346129		
17	Hapmap48602-BTA-109848	4.319249	1398024		
17	BTB-01770532	4.628385	1486819		
17	Hapmap58958-rs29014979	4.819393	1514342		
17	BTA-27677-no-rs	5.105284	1555188		
17	Hapmap43464-BTA-111790	5.925336	1672351		
17	ARS-BFGL-BAC-33412	6.225463	1715231		
17	BTB-01760129	6.732852	1787723		
17	BTB-01855576	6.836315	1802505		
17	ARS-BFGL-NGS-28768	7.231312	1907240		
17	Hapmap60791-rs29018318	7.245562	1970122		
17	ARS-USMARC-540	7.266221	2061283		
17	BTB-01727358	7.330751	2346041		
17	BTB-01868566	7.336159	2369905		
17	BTB-02036897	7.344505	2406734		
17	BTB-00664095	7.350357	2432556		
17	BTB-00664072	7.354549	2451055		
17	BTA-40708-no-rs	7.370283	2520482		
17	ARS-BFGL-NGS-14135	7.381145	2568413		
17	Hapmap44006-BTA-114073	7.503086	2685801		
17	BTA-90683-no-rs	7.632145	2728598		
17	BTA-41828-no-rs	7.693161	2748831		
17	BTA-41981-no-rs	7.801943	2784904		
17	ARS-BFGL-NGS-21141	8.093068	2881443		
17	Hapmap39997-BTA-42072	8.161999	2904301		
17	ARS-BFGL-NGS-21149	8.266728	2939030		
17	Hapmap51547-BTA-109606	8.328585	2959542		
17	Hapmap51140-BTA-109607	8.41507	2988221		
17	BTA-109611-no-rs	8.478973	3009412		
17	ARS-BFGL-NGS-119593	8.672153	3073472		
17	BTA-89511-no-rs	8.749152	3099005		
17	ARS-BFGL-NGS-113197	8.811379	3119640		
17	BTA-41640-no-rs	9.025856	3190762		
17	ARS-BFGL-NGS-38952	9.138338	3228062		
17	Hapmap48326-BTA-41656	9.199773	3248434		
17	ARS-BFGL-NGS-38125	9.389908	3311484		
17	ARS-BFGL-NGS-80569	9.794889	3445779		
17	BTB-01990000	9.959757	3500450		
17	BTB-01782545	10.25897	3599671		
17	ARS-BFGL-NGS-113258	10.3	3634631		
17	Hapmap47001-BTA-40676	10.38982	3677489		
17	BTA-40656-no-rs	10.48174	3720495		
17	ARS-BFGL-NGS-108037	10.62758	3795790		
17	ARS-BFGL-NGS-102835	10.73133	3855180		

17	ARS-BFGL-NGS-66748	10.77384	3879518
17	ARS-BFGL-NGS-107082	10.88772	3944707
17	ARS-BFGL-NGS-37528	11.10348	4068215
17	ARS-BFGL-NGS-100229	11.25187	4153159
17	BTB-00667540	11.31056	4186754
17	BTB-00667579	11.36504	4217941
17	BTB-00667627	11.41999	4249394
17	BTA-41349-no-rs	11.44889	4265936
17	ARS-BFGL-NGS-4368	11.5204	4306870
17	ARS-BFGL-NGS-95434	11.5909	4347226
17	ARS-BFGL-NGS-11818	11.67126	4393229
17	ARS-BFGL-NGS-110680	11.72372	4423257
17	ARS-BFGL-NGS-113593	11.77217	4450993
17	Hapmap49601-BTA-41439	11.84476	4492545
17	ARS-BFGL-NGS-11273	11.95922	4558069
17	BTA-41571-no-rs	12.00657	4585172
17	ARS-BFGL-NGS-75113	12.09308	4634690
17	ARS-BFGL-NGS-68737	12.16357	4675045
17	BTB-00667048	12.20809	4700529
17	UA-IFASA-5010	12.24853	4723675
17	Hapmap49159-BTA-41147	12.29572	4750693
17	BTB-00667169	12.3375	4774605
17	BTB-00667263	12.35602	4785207
17	BTB-00668797	12.42915	4827067
17	ARS-BFGL-NGS-98990	12.50111	4868261
17	BTA-41742-no-rs	12.54524	4893522
17	ARS-BFGL-NGS-77485	12.60293	4926550
17	BTB-00669259	12.64567	4951011
17	Hapmap47218-BTA-21816	12.69577	4979691
17	ARS-BFGL-NGS-3378	12.82947	5056225
17	ARS-BFGL-NGS-113108	12.90218	5097846
17	BTB-00664573	12.99961	5153621
17	BTB-00664625	13.16214	5246656
17	BTB-00664712	13.29715	5323939
17	ARS-BFGL-NGS-118611	13.3559	5357573
17	Hapmap32037-BTA-131237	13.39485	5379870
17	ARS-BFGL-NGS-79821	13.41961	5394041
17	ARS-BFGL-NGS-113111	13.50914	5445294
17	ARS-BFGL-NGS-104962	13.58232	5487182
17	ARS-BFGL-NGS-24849	13.62435	5511241
17	ARS-BFGL-NGS-20292	13.68645	5546789
17	Hapmap42932-BTA-40423	13.76363	5590969
17	ARS-BFGL-NGS-104289	14.31742	5663467
17	ARS-BFGL-NGS-76995	14.77267	5713015
17	ARS-BFGL-NGS-104501	15.50396	5792606
17	ARS-BFGL-NGS-38059	15.84188	5829384
17	BTB-01002430	16.20771	5881452
17	ARS-BFGL-NGS-18139	16.24166	5908640
17	ARS-BFGL-NGS-39467	16.37388	5987292
17	BTA-30061-no-rs	16.51142	6027926
17	ARS-BFGL-NGS-26906	16.64364	6066986
17	ARS-BFGL-NGS-87239	16.77835	6106783
17	ARS-BFGL-NGS-79791	16.92022	6148697
17	ARS-BFGL-NGS-4064	16.99342	6170321
17	ARS-BFGL-NGS-30159	17.06646	6191683
17	BTB-00669345	17.26346	6243273
17	BTB-00669395	17.35189	6266432
17	Hapmap47945-BTA-41852	17.38	6295259
17	BTB-00669586	17.38	6322271

17	ARS-BFGL-NGS-62052	17.38	6348852	
17	Hapmap51728-BTA-41894	17.38	6380171	
17	BTB-01717477	17.48076	6483488	
17	Hapmap55602-rs29026096	17.78425	6528887	
17	Hapmap36186-SCAFFOLD206949_1268		17.96893	6556513
17	BTB-00670110	18.53865	6641738	
17	ARS-BFGL-NGS-20893	18.72695	6669905	
17	BTA-42041-no-rs	19.23697	6746199	
17	Hapmap32304-BTA-135553	19.41988	6787581	
17	ARS-BFGL-NGS-111463	19.91689	6978314	
17	ARS-BFGL-NGS-5880	20.28288	7118768	
17	ARS-BFGL-BAC-27368	20.34799	7143753	
17	Hapmap54786-rs29011077	20.40466	7165500	
17	Hapmap47761-BTA-86120	20.45702	7185597	
17	BTA-86110-no-rs	20.5519	7256085	
17	BTA-14305-no-rs	20.59155	7293126	
17	BTA-86112-no-rs	20.6163	7316241	
17	BTA-86115-no-rs	20.64673	7344671	
17	BTB-01381100	20.68004	7375792	
17	BTB-01381127	20.70534	7399427	
17	Hapmap34622-BES10_Contig518_1595	20.78368		7472614
17	BTB-01311082	20.84244	7527510	
17	ARS-BFGL-NGS-59699	20.87507	7557992	
17	BTB-01311007	20.942	7620520	
17	ARS-BFGL-BAC-27353	20.99567	7666676	
17	BTB-01310918	21.03614	7699969	
17	ARS-BFGL-BAC-27352	21.10487	7756498	
17	BTB-01817680	21.26122	7885110	
17	BTB-01298431	21.30435	7920588	
17	BTB-01298415	21.33531	7946056	
17	BTA-122662-no-rs	21.39789	7997532	
17	ARS-BFGL-NGS-23297	21.43307	8026474	
17	BTB-01298254	21.48311	8067629	
17	ARS-BFGL-NGS-95736	21.52099	8098794	
17	BTB-01153111	21.60767	8170089	
17	ARS-BFGL-NGS-55629	21.80335	8331053	
17	BTB-01152870	21.90133	8411651	
17	Hapmap54932-rs29013312	21.93468	8439080	
17	ARS-BFGL-NGS-114713	22.00261	8494957	
17	BTB-01152618	22.10645	8534758	
17	Hapmap50530-BTA-99235	22.23752	8562796	
17	ARS-BFGL-NGS-101525	22.39851	8589994	
17	BTB-01152492	22.65237	8632882	
17	BTA-99248-no-rs	22.99144	8690167	
17	Hapmap48328-BTA-42048	23.17124	8720543	
17	Hapmap47003-BTA-42050	23.4206	8776227	
17	ARS-BFGL-NGS-94455	23.4827	8800578	
17	Hapmap41863-BTA-42046	24.06213	9027765	
17	ARS-BFGL-BAC-33747	24.57567	9128007	
17	BTB-00670359	24.75588	9161572	
17	ARS-BFGL-BAC-27373	24.88783	9186147	
17	ARS-BFGL-NGS-110759	24.9988	9206816	
17	BTB-01908179	25.10323	9226268	
17	ARS-BFGL-NGS-118319	25.38808	9279323	
17	ARS-BFGL-NGS-22496	25.69541	9336564	
17	Hapmap49561-BTA-29504	25.85892	9367019	
17	ARS-BFGL-NGS-43717	25.99757	9392845	
17	Hapmap55983-rs29021736	26.14491	9420287	
17	BTB-01831006	26.42778	9472973	

17	BTB-01339049	26.78103	9538768	
17	BTB-01339061	26.88868	9558819	
17	BTA-100207-no-rs	27.24384	9624970	
17	ARS-BFGL-NGS-40131	27.64154	9699044	
17	ARS-BFGL-NGS-114953	27.93353	9753430	
17	BTA-42058-no-rs	28.18777	9807701	
17	ARS-BFGL-NGS-104959	28.51316	9874709	
17	BTB-00670675	28.62815	9898390	
17	ARS-BFGL-NGS-10560	28.7387	9921157	
17	BTB-00670506	28.87336	9948887	
17	Hapmap6261-BTA-42054	29.01071	9977173	
17	Hapmap36789-SCAFFOLD190171_16889	29.19425	10014970	10014970
17	ARS-BFGL-NGS-117428	29.32194	10041265	
17	ARS-BFGL-BAC-34362	29.42486	10062461	
17	Hapmap42209-BTA-42081	29.80517	10140780	
17	Hapmap54228-rs29017541	30.1171	10205017	
17	BTA-42080-no-rs	30.17676	10226795	
17	BTB-00671384	30.22693	10250084	
17	ARS-BFGL-NGS-14166	30.29928	10283664	
17	BTB-00670806	30.35096	10307653	
17	ARS-BFGL-NGS-113821	30.39994	10330387	
17	ARS-BFGL-NGS-51247	30.50828	10380674	
17	ARS-BFGL-BAC-34372	30.56266	10405916	
17	ARS-BFGL-NGS-40665	30.70589	10472398	
17	ARS-BFGL-NGS-22126	30.76304	10498926	
17	BTA-42074-no-rs	30.88987	10557794	
17	Hapmap52387-rs29021226	30.96836	10594226	
17	Hapmap40124-BTA-42067	31.13526	10671697	
17	ARS-BFGL-NGS-112310	31.14	10703771	
17	Hapmap2587-BTA-120526	31.14	10726289	
17	BTB-00670868	31.20818	10774291	
17	BTA-87167-no-rs	31.56464	10898383	
17	BTB-02004836	31.6891	10937297	
17	ARS-BFGL-NGS-80508	31.89507	11001696	
17	BTB-01441061	31.98333	11029290	
17	BTB-01440888	32.04728	11049283	
17	BTB-01440970	32.12119	11072392	
17	BTB-01440997	32.15	11116659	
17	ARS-BFGL-BAC-31498	32.15	11169306	
17	BTB-01440825	32.15	11202256	
17	Hapmap47504-BTA-111690	32.15	11231535	
17	BTA-111689-no-rs	32.15	11252720	
17	BTA-111694-no-rs	32.15	11292820	
17	ARS-BFGL-NGS-102126	32.15	11321564	
17	BTA-120039-no-rs	32.30691	11370727	
17	BTA-120038-no-rs	32.40638	11391752	
17	ARS-BFGL-NGS-105289	32.53976	11419944	
17	BTB-01435781	32.7604	11466582	
17	ARS-BFGL-NGS-15402	33.0042	11518115	
17	BTA-21866-no-rs	33.57302	11638348	
17	BTB-01753558	33.93113	11714043	
17	BTB-00671456	34.10938	11751720	
17	BTB-02016067	34.27612	11789864	
17	BTB-00671689	34.33242	11828433	
17	Hapmap52434-rs29012066	34.39432	11870833	
17	ARS-BFGL-NGS-8026	34.48542	11933243	
17	ARS-BFGL-NGS-67872	34.54122	11971465	
17	BTB-00316147	34.78367	12137554	
17	BTB-00672157	34.86035	12190084	

17	ARS-BFGL-BAC-31505	34.9018	12218477
17	ARS-BFGL-NGS-20640	34.95966	12258111
17	BTB-00671736	35.00361	12288221
17	ARS-BFGL-NGS-5282	35.04888	12319235
17	ARS-BFGL-NGS-31362	35.07739	12338763
17	ARS-BFGL-NGS-117050	35.12684	12372640
17	ARS-BFGL-NGS-3061	35.15813	12394071
17	ARS-BFGL-NGS-90590	35.30203	12492653
17	BTB-00673337	35.35391	12517208
17	ARS-BFGL-NGS-39722	35.43179	12545331
17	ARS-BFGL-NGS-10346	35.49282	12567376
17	BTA-42189-no-rs	35.61983	12613243
17	BTA-42193-no-rs	35.71497	12647602
17	ARS-BFGL-NGS-112833	35.83518	12691014
17	ARS-BFGL-NGS-62844	35.9041	12715904
17	ARS-BFGL-NGS-96040	36.04514	12766838
17	Hapmap52851-rs29021975	36.18993	12819130
17	ARS-BFGL-NGS-11383	36.3917	12891997
17	ARS-BFGL-NGS-73612	36.50308	12932221
17	ARS-BFGL-NGS-14291	36.77892	13031838
17	ARS-BFGL-NGS-82911	37.03587	13119391
17	Hapmap41434-BTA-114995	37.39347	13196268
17	BTB-01225518	38.0882	13345621
17	Hapmap24693-BTA-156848	38.27671	13386146
17	Hapmap26095-BTA-113931	38.49572	13433229
17	Hapmap28090-BTA-113932	38.60067	13455790
17	Hapmap30863-BTA-156849	39.43821	13635843
17	BTA-113935-no-rs	39.67469	13686681
17	ARS-BFGL-NGS-22135	40.20355	13800376
17	BTB-01908398	40.47	13861253
17	Hapmap57405-rs29021707	40.47	13889636
17	BTA-19263-no-rs	40.47	13919432
17	ARS-BFGL-NGS-22174	40.47	13941499
17	ARS-BFGL-NGS-35648	40.48925	13984972
17	BTB-01297598	40.62927	14080531
17	BTB-01297542	40.68752	14120288
17	Hapmap33086-BTA-19277	40.77661	14141384
17	ARS-BFGL-NGS-93036	41.07668	14167323
17	ARS-BFGL-NGS-105993	41.74342	14253363
17	Hapmap39897-BTA-18318	42.28858	14357124
17	ARS-BFGL-NGS-14479	42.74779	14469659
17	ARS-BFGL-NGS-82854	42.94741	14558961
17	BTA-42224-no-rs	43.03118	14596438
17	ARS-USMARC-507	43.13751	14644005
17	BTB-00674339	43.22204	14681821
17	ARS-BFGL-NGS-111363	43.36849	14747338
17	BTA-42221-no-rs	43.44669	14782322
17	BTB-00674231	43.51753	14814012
17	ARS-BFGL-NGS-77428	43.57597	14840158
17	BTB-00674040	43.63331	14865809
17	Hapmap47946-BTA-42208	43.77504	14929215
17	Hapmap60968-rs29016935	43.92671	14997063
17	BTB-00673952	44.05083	15052590
17	ARS-BFGL-NGS-16708	44.17457	15107947
17	ARS-BFGL-NGS-26864	44.21796	15127358
17	ARS-BFGL-NGS-87957	44.32643	15175882
17	ARS-BFGL-NGS-32257	44.40619	15211563
17	ARS-BFGL-NGS-113029	44.48753	15247955
17	BTA-106183-no-rs	44.54106	15271899



17	BTA-106195-no-rs	44.60118	15298798	
17	BTA-05721-rs29019877	44.69521	15340860	
17	ARS-BFGL-NGS-29973	44.76574	15372415	
17	BTA-106214-no-rs	45.11478	15528561	
17	ARS-BFGL-NGS-115453	45.29997	15611409	
17	ARS-BFGL-NGS-39400	45.39826	15655379	
17	BTA-106224-no-rs	45.44661	15677009	
17	BTA-106235-no-rs	45.50845	15704674	
17	Hapmap49806-BTA-95003	45.58894	15740680	
17	ARS-BFGL-NGS-11676	45.6987	15789785	
17	Hapmap43479-BTA-117143	46.03283	15939261	
17	ARS-BFGL-NGS-11675	46.11017	15973860	
17	ARS-BFGL-BAC-34029	46.17683	16003681	
17	BTB-01082458	46.19659	16032820	
17	ARS-BFGL-NGS-7616	46.21933	16070807	
17	BTA-42235-no-rs	46.23332	16094177	
17	ARS-BFGL-NGS-112270	46.27633	16166026	
17	Hapmap30759-BTA-123220	46.45554	16415781	
17	Hapmap40231-BTA-100499	46.48345	16441272	
17	ARS-BFGL-NGS-102555	46.59306	16541350	
17	ARS-BFGL-NGS-116455	46.61541	16561761	
17	BTA-04207-rs29014570	46.73584	16671727	
17	ARS-BFGL-NGS-25938	46.76752	16700649	
17	ARS-BFGL-NGS-106367	46.83093	16758551	
17	ARS-BFGL-NGS-115776	46.86599	16790563	
17	ARS-BFGL-NGS-73920	46.89555	16817561	
17	ARS-BFGL-NGS-35794	46.95486	16871712	
17	ARS-BFGL-NGS-94430	47.079	16985065	
17	Hapmap42201-BTA-40420	47.24871	17140029	
17	Hapmap36689-SCAFFOLD240425_52453	47.2803	17168869	
17	ARS-BFGL-NGS-17494	47.36527	17257975	
17	Hapmap30342-BTA-40411	47.46842	17378423	
17	ARS-BFGL-NGS-28104	47.51343	17430983	
17	ARS-BFGL-NGS-29011	47.54554	17468482	
17	ARS-USMARC-Parent-DQ381152-rs29002408	47.66151	17616950	
17	ARS-BFGL-NGS-38057	47.66775	17625365	
17	ARS-BFGL-NGS-7812	47.73368	17714385	
17	ARS-BFGL-NGS-34258	47.89079	17926492	
17	ARS-BFGL-NGS-69762	47.90631	17947446	
17	BTA-40442-no-rs	47.92273	17969614	
17	ARS-BFGL-NGS-106306	48.04797	18138707	
17	Hapmap44236-BTA-40569	48.08302	18186024	
17	ARS-BFGL-NGS-59842	48.12594	18243977	
17	Hapmap51085-BTA-90972	48.14515	18269913	
17	ARS-BFGL-NGS-11930	48.17945	18316220	
17	ARS-BFGL-NGS-11296	48.21664	18366429	
17	ARS-BFGL-NGS-38696	48.24048	18398611	
17	ARS-BFGL-NGS-35622	48.27482	18444975	
17	ARS-BFGL-BAC-34039	48.29414	18471053	
17	ARS-BFGL-NGS-116291	48.31088	18493662	
17	Hapmap39403-BTA-40429	48.34151	18535013	
17	ARS-BFGL-NGS-29563	48.37066	18574363	
17	ARS-BFGL-NGS-24805	48.45422	18687182	
17	Hapmap41529-BTA-40591	48.49494	18742163	
17	ARS-BFGL-BAC-34040	48.51169	18764770	
17	Hapmap51224-BTA-40595	48.54094	18804260	
17	BTA-25641-no-rs	48.58048	18857648	
17	Hapmap40057-BTA-25640	48.59791	18881179	
17	ARS-BFGL-NGS-66923	48.61993	18910914	

17	ARS-BFGL-NGS-118918	48.63943	18937238	
17	ARS-BFGL-NGS-118491	48.66032	18965447	
17	BTA-40599-no-rs	48.69221	19008492	
17	Hapmap34713-BES10_Contig634_914		48.76698	19109434
17	ARS-BFGL-BAC-34046	48.82251	19184418	
17	Hapmap31828-BTA-159336	48.83931	19207100	
17	BTA-16055-no-rs	48.88476	19268461	
17	ARS-BFGL-NGS-25537	48.90318	19293329	
17	ARS-BFGL-NGS-102933	48.91945	19315294	
17	ARS-BFGL-NGS-36426	48.93449	19346381	
17	BTA-16045-no-rs	48.95292	19384978	
17	Hapmap51174-BTA-16044	48.98009	19441907	
17	Hapmap48663-BTA-16043	48.99282	19468571	
17	BTA-16035-no-rs	49.01215	19509066	
17	ARS-BFGL-NGS-94847	49.02305	19531885	
17	Hapmap36622-SCAFFOLD35509_12491		49.0363	19559644
17	Hapmap48748-BTA-40639	49.06955	19629297	
17	BTB-01087937	49.13923	19775229	
17	ARS-BFGL-NGS-23824	49.15117	19800248	
17	ARS-BFGL-NGS-87372	49.16206	19823070	
17	BTA-16014-no-rs	49.19654	19895287	
17	ARS-BFGL-BAC-35343	49.21611	19936263	
17	Hapmap44352-BTA-16069	49.23466	19975119	
17	BTA-91575-no-rs	49.2942	20099837	
17	ARS-BFGL-NGS-119157	49.37806	20275502	
17	ARS-BFGL-NGS-68373	49.39373	20308321	
17	ARS-BFGL-NGS-110834	49.40698	20336068	
17	ARS-BFGL-BAC-35955	49.46384	20455179	
17	Hapmap57633-rs29027409	49.47795	20484740	
17	BTA-123047-no-rs	49.49127	20512625	
17	BTA-105846-no-rs	49.51605	20564537	
17	Hapmap42781-BTA-105847	49.73729	20593969	
17	ARS-BFGL-NGS-59897	49.88	20634031	
17	Hapmap50680-BTA-40601	49.90628	20744144	
17	BTA-40613-no-rs	49.92913	20780387	
17	ARS-BFGL-NGS-54201	49.98646	20871321	
17	ARS-BFGL-NGS-14591	50.00005	20892863	
17	Hapmap61007-rs29024666	50.03036	20940958	
17	Hapmap51443-BTA-40619	50.0656	20996847	
17	ARS-BFGL-NGS-1485	50.08825	21032775	
17	BTA-21931-no-rs	50.10237	21055164	
17	ARS-BFGL-NGS-114860	50.13593	21108406	
17	BTA-113250-no-rs	50.28967	21352266	
17	ARS-BFGL-NGS-18128	50.36026	21464235	
17	BTA-113527-no-rs	50.37553	21488452	
17	Hapmap58447-rs29021883	50.39739	21523120	
17	ARS-BFGL-BAC-35973	50.48719	21665559	
17	Hapmap50279-BTA-21688	50.51208	21705044	
17	ARS-BFGL-NGS-40216	50.54049	21750094	
17	Hapmap48530-BTA-94531	50.62867	21889966	
17	ARS-BFGL-NGS-28514	50.63783	21904500	
17	ARS-BFGL-NGS-107447	50.68246	21975287	
17	ARS-BFGL-NGS-112922	50.70671	22013753	
17	ARS-BFGL-BAC-35962	50.72109	22036567	
17	ARS-BFGL-NGS-45739	50.76499	22106196	
17	ARS-BFGL-BAC-35963	50.91	22358699	
17	BTA-111668-no-rs	50.91	22398832	
17	Hapmap55890-rs29027310	50.91	22421753	
17	ARS-BFGL-BAC-2274	50.91	22511345	

17	Hapmap59999-rs29024254	50.91	22584146	
17	ARS-BFGL-BAC-35968	50.91	22713714	
17	ARS-BFGL-BAC-35969	51.07218	22820344	
17	Hapmap43260-BTA-40679	51.14802	22857773	
17	ARS-BFGL-NGS-42348	51.19048	22878726	
17	Hapmap52011-BTA-40675	51.37986	22972193	
17	Hapmap51950-BTA-40650	51.77499	23322903	
17	BTA-40649-no-rs	51.79049	23367681	
17	BTA-88834-no-rs	51.81263	23431642	
17	ARS-BFGL-NGS-16051	51.8675	23590187	
17	Hapmap36431-SCAFFOLD200017_11121	51.8766		23616463
17	ARS-BFGL-BAC-35971	51.89086	23657667	
17	ARS-BFGL-NGS-25840	51.9	23694684	
17	Hapmap60996-rs29015760	52.1832	24345801	
17	ARS-BFGL-NGS-18252	52.2373	24406498	
17	ARS-BFGL-NGS-88925	52.26922	24442304	
17	Hapmap50579-BTA-116321	52.30883	24486734	
17	Hapmap51529-BTA-98713	52.35571	24539327	
17	Hapmap48970-BTA-98712	52.42706	24654971	
17	ARS-BFGL-NGS-23409	52.45427	24706081	
17	BTA-44072-no-rs	52.46772	24731346	
17	BTA-90024-no-rs	52.51009	24810915	
17	ARS-BFGL-BAC-4867	52.53007	24848457	
17	Hapmap49611-BTA-44077	52.55485	24890906	
17	ARS-BFGL-NGS-88447	52.6076	24945549	
17	ARS-BFGL-NGS-21860	52.67012	25010293	
17	Hapmap33840-BES7_Contig516_781	52.78	25230088	
17	ARS-BFGL-NGS-86792	52.78	25251357	
17	BTA-31434-no-rs	52.78	25339122	
17	ARS-BFGL-NGS-108496	52.79726	25441346	
17	ARS-BFGL-NGS-7546	52.82502	25497713	
17	ARS-BFGL-NGS-64944	52.88805	25625689	
17	BTA-22763-no-rs	52.90208	25654188	
17	BTA-22770-no-rs	52.91309	25676531	
17	Hapmap39152-BTA-27712	52.94681	25745000	
17	Hapmap51101-BTA-97588	52.99947	25851918	
17	ARS-BFGL-BAC-18831	53.05	26010339	
17	ARS-BFGL-NGS-40557	53.05	26040363	
17	Hapmap58142-rs29019796	53.05	26065857	
17	ARS-BFGL-NGS-100397	53.05	26197600	
17	Hapmap42541-BTA-40707	53.05	26228211	
17	ARS-BFGL-BAC-18843	53.05	26318464	
17	ARS-BFGL-NGS-107195	53.05	26398481	
17	BTA-46636-no-rs	53.05	26418537	
17	BTA-46637-no-rs	53.05	26442970	
17	Hapmap51732-BTA-46639	53.05	26519589	
17	BTA-20062-no-rs	53.05	26555694	
17	BTA-46662-no-rs	53.12367	26712567	
17	Hapmap41875-BTA-46663	53.16564	26735031	
17	BTA-46672-no-rs	53.57597	26954639	
17	Hapmap60105-rs29016438	53.63497	26986219	
17	Hapmap43860-BTA-46675	53.70299	27022623	
17	Hapmap60929-rs29023023	53.84326	27097698	
17	UA-IFASA-5452	53.89968	27127895	
17	BTA-121991-no-rs	54.03143	27198407	
17	Hapmap39898-BTA-18764	54.22711	27303135	
17	ARS-BFGL-NGS-8464	54.51838	27459029	
17	Hapmap33668-BTA-150833	54.57922	27491589	
17	ARS-BFGL-NGS-41451	54.62526	27516228	

17	Hapmap41156-BTA-112917	54.82571	27623513		
17	BTA-28350-no-rs	54.97101	27701281		
17	Hapmap49944-BTA-28345	55.00899	27721603		
17	ARS-BFGL-NGS-75185	55.06441	27751266		
17	BTA-40735-no-rs	55.17216	27808938		
17	Hapmap23871-BTA-131343	55.43596	27950124		
17	Hapmap58542-rs29018933	55.48532	27976539		
17	ARS-BFGL-NGS-99213	55.5327	28001895		
17	BTA-40742-no-rs	55.6	28071496		
17	Hapmap55423-rs29013623	55.6	28168540		
17	ARS-BFGL-NGS-68295	55.6	28234232		
17	ARS-BFGL-NGS-25718	55.6	28254430		
17	BTB-01612776	55.6	28304921		
17	Hapmap35289-BES4_Contig230_1042	55.6	28338411		
17	Hapmap58096-rs29011314	55.6	28372736		
17	ARS-BFGL-NGS-20522	55.70977	28430084		
17	Hapmap48604-BTA-110855	55.85773	28477055		
17	ARS-BFGL-NGS-117518	55.93523	28501664		
17	BTB-01731152	56.14008	28566700		
17	BTA-116871-no-rs	56.29386	28615520		
17	BTB-00101072	56.41391	28653636		
17	BTB-00101173	56.47663	28673548		
17	Hapmap34356-BES10_Contig428_724	56.5455	28695411		
17	ARS-BFGL-BAC-32103	56.72746	28753180		
17	BTA-47941-no-rs	56.92847	28816998		
17	ARS-BFGL-NGS-23063	57.07154	28862421		
17	ARS-BFGL-BAC-32107	57.26277	28923132		
17	Hapmap38834-BTA-40794	57.61929	29018684		
17	BTB-00676077	57.7925	29057538		
17	Hapmap39420-BTA-65875	58.11394	29129642		
17	ARS-BFGL-NGS-24203	58.95668	29318680		
17	ARS-BFGL-NGS-30992	59.17867	29368476		
17	ARS-BFGL-NGS-30118	59.49851	29440222		
17	ARS-BFGL-BAC-32712	59.66841	29478332		
17	BTA-120325-no-rs	59.86975	29523496		
17	ARS-BFGL-NGS-44538	60.25093	29612223		
17	BTA-40811-no-rs	60.49421	29673863		
17	Hapmap53209-rs29014879	60.83759	29760863		
17	Hapmap54841-rs29022067	61.31429	29881642		
17	ARS-BFGL-NGS-118057	61.49068	29926334		
17	ARS-USMARC-Parent-AY858890-rs29002256	61.52944	29936157		
17	ARS-BFGL-NGS-85191	62.09	29993845		
17	Hapmap51997-BTA-40805	62.09	30063422		
17	Hapmap55008-rs29022004	62.09	30219083		
17	BTA-11683-no-rs	62.11902	30301272		
17	ARS-USMARC-583	62.13099	30334258		
17	ARS-USMARC-569	62.14066	30360942		
17	ARS-USMARC-547	62.15657	30404823		
17	BTB-00676303	62.18309	30477956		
17	BTB-00676236	62.19402	30508078		
17	BTB-00676214	62.20562	30540080		
17	ARS-BFGL-NGS-61134	62.25507	30676454		
17	BTB-00675244	62.42667	30778821		
17	BTB-01839787	62.49238	30813823		
17	BTB-01757364	62.59813	30870156		
17	Hapmap33244-BTA-158544	62.66253	30904465		
17	BTB-01870009	62.7019	30925441		
17	BTB-01869986	62.74674	30949325		
17	Hapmap49876-BTA-117729	62.79822	30976748		

17	ARS-BFGL-NGS-96366	62.92087	31042083	
17	ARS-BFGL-NGS-6310	63.04561	31108536	
17	Hapmap48525-BTA-92345	63.13503	31159647	
17	BTB-01426795	63.16542	31182877	
17	Hapmap26728-BTA-153579	63.22781	31230548	
17	BTA-104167-no-rs	63.27703	31268164	
17	BTB-01562810	63.33262	31310645	
17	Hapmap61049-rs29026582	63.37328	31341714	
17	Hapmap43461-BTA-111472	63.43944	31392272	
17	BTA-111462-no-rs	63.48344	31425897	
17	ARS-BFGL-NGS-37232	63.51159	31447409	
17	BTA-102389-no-rs	63.65396	31556203	
17	BTB-01542763	63.75375	31632465	
17	Hapmap51554-BTA-114371	63.80331	31670335	
17	BTB-01227664	63.86811	31719857	
17	BTB-01227713	63.96057	31790508	
17	BTB-01394111	64.15315	31937672	
17	BTB-01394079	64.19048	31966201	
17	Hapmap29357-BTA-147904	64.24725	32009576	
17	ARS-BFGL-NGS-38157	64.30655	32054898	
17	BTB-01393971	64.381	32096554	
17	Hapmap26155-BTA-147894	64.45743	32126563	
17	BTB-02074017	64.72962	32233437	
17	BTB-01811453	64.82205	32269727	
17	ARS-BFGL-NGS-74608	65.09719	32377757	
17	BTB-00782224	65.20925	32421756	
17	ARS-BFGL-NGS-115574	65.3634	32512382	
17	Hapmap58414-rs29020894	65.47433	32601443	
17	BTB-00971111	65.52892	32645269	
17	ARS-BFGL-NGS-112636	65.57182	32679701	
17	BTB-00782602	65.67546	32762909	
17	Hapmap33002-BTA-135175	65.70753	32788648	
17	BTB-00782656	65.7443	32818172	
17	BTB-00782669	65.78409	32850115	
17	BTB-00782769	65.82464	32882668	
17	ARS-BFGL-NGS-113915	65.86099	32911852	
17	BTA-50545-no-rs	65.90023	32943354	
17	BTA-50550-no-rs	65.926	32964041	
17	ARS-BFGL-NGS-98604	66.0009	33024168	
17	ARS-BFGL-NGS-40882	66.09357	33098572	
17	Hapmap36050-SCAFFOLD151462_2974	66.14423	33139235	
17	ARS-BFGL-NGS-24543	66.18633	33174415	
17	Hapmap42109-BTA-122067	66.22791	33211327	
17	BTB-01421373	66.27286	33251225	
17	BTB-01421398	66.30609	33280721	
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17	Hapmap60386-rs29023534	66.37063	33338008	
17	Hapmap48996-BTA-103789	66.44245	33401754	
17	BTB-01557948	66.47359	33429390	
17	BTB-01557882	66.51113	33462719	
17	Hapmap34151-BES4_Contig331_734	66.54816	33495581	
17	BTB-01779006	66.61859	33558100	
17	BTB-01937537	66.70973	33638999	
17	BTA-20975-no-rs	66.79641	33715935	
17	Hapmap53917-rs29022003	66.84421	33758361	
17	BTB-01308307	66.88783	33797084	
17	BTB-01308199	66.92226	33827641	
17	BTB-01308172	66.94972	33852015	
17	BTB-01308098	67.00236	33898732	

17	BTB-01307961	67.03271	33925677	
17	Hapmap34868-VSWHP1E1013A_scf	67.04	33948813	
17	BTB-01786459	67.04	33981761	
17	BTB-00855613	67.04	34078461	
17	Hapmap45113-BTA-54994	67.04	34139617	
17	ARS-BFGL-NGS-54215	67.19129	34315609	
17	ARS-BFGL-BAC-32721	67.49184	34377274	
17	Hapmap45911-BTA-122759	67.63	34409623	
17	BTA-24926-no-rs	67.64367	34429947	
17	Hapmap50955-BTA-40838	67.71242	34496982	
17	ARS-BFGL-NGS-102063	67.78176	34564610	
17	BTA-40837-no-rs	67.80889	34591064	
17	Hapmap55181-rs29024586	67.84276	34624087	
17	Hapmap35672-SCAFFOLD261139_4435	67.87837		34658815
17	Hapmap48321-BTA-40830	67.90778	34687492	
17	ARS-USMARC-528	67.97443	34752485	
17	Hapmap51444-BTA-40815	68.223	34994873	
17	Hapmap46139-BTA-40813	68.27977	35050237	
17	ARS-BFGL-NGS-34580	68.40747	35174759	
17	Hapmap29086-BTA-40855	68.46397	35229850	
17	ARS-BFGL-NGS-24364	68.48549	35250836	
17	Hapmap59406-rs29026470	68.53667	35300746	
17	Hapmap41530-BTA-40859	68.6198	35382966	
17	ARS-BFGL-NGS-77953	68.66825	35435899	
17	Hapmap23395-BTA-131365	68.69203	35461879	
17	ARS-BFGL-NGS-116917	69.4565	36297178	
17	Hapmap51419-BTA-20747	69.54181	36390393	
17	ARS-BFGL-NGS-118523	69.56084	36411186	
17	Hapmap53822-rs29010170	69.58177	36434056	
17	UA-IFASA-2389	69.64371	36501744	
17	Hapmap49910-BTA-20754	69.70776	36571721	
17	BTA-20758-no-rs	69.72909	36595026	
17	Hapmap23443-BTA-161049	69.74783	36615502	
17	Hapmap49526-BTA-20762	69.7738	36643872	
17	Hapmap59822-rs29020659	69.82827	36703402	
17	Hapmap27010-BTA-156922	69.99877	36889694	
17	ARS-BFGL-NGS-34831	70.04663	36941990	
17	BTA-29258-no-rs	70.34168	37148470	
17	Hapmap24211-BTA-160060	70.39346	37201424	
17	ARS-BFGL-NGS-94992	70.42607	37234778	
17	Hapmap27435-BTA-154028	70.45625	37265640	
17	ARS-BFGL-NGS-90634	70.49596	37306252	
17	Hapmap38562-BTA-105553	70.54081	37352127	
17	BTA-105571-no-rs	71.09319	37709239	
17	BTA-106947-no-rs	71.15719	37819640	
17	Hapmap46283-BTA-119242	71.22305	37933239	
17	Hapmap43738-BTA-99532	71.2624	38001105	
17	ARS-BFGL-NGS-62561	71.32181	38103567	
17	ARS-BFGL-NGS-78232	71.34559	38144582	
17	Hapmap54444-rs29026028	71.36228	38173381	
17	Hapmap56175-rs29013219	71.38232	38207944	
17	BTA-111300-no-rs	71.40749	38251362	
17	ARS-BFGL-NGS-1835	71.4397	38306902	
17	BTA-104059-no-rs	71.46224	38345794	
17	Hapmap51996-BTA-26582	71.48223	38380262	
17	ARS-BFGL-NGS-70445	71.78484	38902191	
17	Hapmap30543-BTA-141219	72.64081	39681407	
17	BTA-93234-no-rs	72.69	39739079	
17	Hapmap54725-rs29023184	72.69	39773797	

17	Hapmap43651-BTA-67415	72.69	39802502
17	ARS-BFGL-NGS-118255	72.69	39919293
17	ARS-BFGL-BAC-32745	72.69	39963957
17	ARS-BFGL-NGS-99018	72.69	39987851
17	ARS-BFGL-NGS-31619	72.69	40034778
17	Hapmap44543-BTA-40914	72.69	40071626
17	Hapmap48749-BTA-40913	72.69	40127809
17	ARS-BFGL-NGS-95260	72.69	40148592
17	BTA-18801-no-rs	72.69437	40253505
17	BTA-18798-no-rs	72.69545	40275903
17	BTA-40892-no-rs	72.69814	40332091
17	ARS-BFGL-NGS-93948	72.69985	40367649
17	ARS-BFGL-NGS-4202	72.80447	40432574
17	Hapmap43571-BTA-40888	72.86609	40469093
17	ARS-BFGL-NGS-92358	72.90136	40489997
17	Hapmap51591-BTA-40881	72.97896	40535983
17	ARS-BFGL-NGS-102428	73.16074	40643707
17	ARS-BFGL-NGS-95458	73.20883	40672206
17	Hapmap41532-BTA-40872	73.24512	40693717
17	ARS-BFGL-NGS-108089	73.43208	40804507
17	Hapmap53994-rs29024926	73.50636	41013290
17	ARS-BFGL-NGS-32208	73.50837	41066514
17	ARS-BFGL-NGS-101808	73.50924	41089654
17	ARS-BFGL-NGS-15818	73.51259	41178453
17	BTA-40927-no-rs	73.51395	41214329
17	ARS-BFGL-NGS-8453	73.51527	41249275
17	BTB-00676740	73.51614	41272672
17	ARS-BFGL-NGS-81782	73.51706	41296951
17	BTA-122399-no-rs	73.51878	41342299
17	BTB-01639060	73.52	41374756
17	BTB-01639139	73.5209	41398527
17	BTB-01151136	73.52179	41422335
17	Hapmap50839-BTA-98826	73.52282	41449502
17	ARS-BFGL-NGS-114905	73.52361	41470591
17	ARS-BFGL-NGS-61413	73.52526	41514287
17	BTB-01150969	73.5267	41552349
17	BTA-98802-no-rs	73.52792	41584901
17	ARS-BFGL-NGS-51534	73.52959	41629175
17	ARS-BFGL-NGS-110305	73.53039	41650184
17	BTB-01150784	73.53176	41686505
17	BTA-98811-no-rs	73.53268	41710814
17	ARS-BFGL-NGS-33088	73.53407	41747600
17	BTB-01665598	73.53613	41802443
17	ARS-BFGL-NGS-118521	73.53809	41854313
17	BTB-01524761	73.54132	41939826
17	Hapmap40322-BTA-100742	73.5423	41965769
17	Hapmap30764-BTA-123547	73.54418	42015741
17	ARS-BFGL-NGS-10493	73.54533	42046346
17	ARS-BFGL-BAC-34653	73.54668	42082059
17	BTB-01647275	73.54742	42101710
17	BTB-02022373	73.54847	42129346
17	BTB-01620081	73.55096	42171340
17	Hapmap28103-BTA-154966	73.577	42206854
17	ARS-BFGL-NGS-102178	73.65667	42315534
17	BTB-01957157	73.74911	42382194
17	BTB-01759893	73.77458	42470138
17	BTB-01595907	73.78394	42502449
17	BTB-01595821	73.80288	42567839
17	BTB-01680332	73.80784	42584965

17	Hapmap42485-BTA-25566	73.83012	42661925
17	BTB-01914617	73.83787	42688661
17	BTB-01638715	73.84455	42711744
17	BTB-01282074	73.8654	42783734
17	BTB-01282164	73.87292	42809689
17	ARS-BFGL-BAC-34663	73.88084	42837038
17	ARS-BFGL-NGS-12835	73.89698	42892776
17	BTB-01282157	73.92637	42994249
17	BTA-17209-no-rs	73.94309	43052005
17	ARS-BFGL-NGS-96384	73.95286	43085729
17	UA-IFASA-3348	73.96256	43119244
17	BTB-01505640	74.07195	43232757
17	ARS-BFGL-NGS-69129	74.18931	43300788
17	BTB-01904985	74.23232	43325722
17	BTA-117317-no-rs	74.32	43387939
17	BTB-01737424	74.32	43412455
17	BTB-00676802	74.32	43434676
17	ARS-BFGL-NGS-114135	74.32	43459410
17	ARS-BFGL-NGS-43688	74.32	43486257
17	BTB-01575428	74.32	43508321
17	Hapmap26742-BTA-156593	74.32	43621923
17	ARS-BFGL-BAC-26997	74.32	43695068
17	BTA-113152-no-rs	74.32	43716302
17	BTA-113150-no-rs	74.32	43762526
17	BTA-113142-no-rs	74.32	43801273
17	BTB-01220555	74.32	43831778
17	ARS-BFGL-NGS-32400	74.32	43956001
17	BTB-01987774	74.32	43990974
17	BTB-01987763	74.32	44000618
17	BTB-00677057	74.3205	44029276
17	BTB-00676890	74.33538	44065527
17	BTB-00676954	74.35811	44120905
17	BTB-00677011	74.3761	44164743
17	ARS-BFGL-NGS-41432	74.39337	44206832
17	BTB-01954793	74.4073	44240753
17	ARS-BFGL-NGS-1481	74.42163	44275695
17	ARS-BFGL-NGS-5026	74.43884	44317603
17	BTB-01646837	74.46409	44379136
17	Hapmap54457-rs29016184	74.478	44413031
17	BTB-02001746	74.5271	44532671
17	BTB-00302280	74.5582	44556278
17	ARS-BFGL-NGS-77504	74.61089	44587183
17	ARS-BFGL-NGS-15664	74.66044	44616245
17	Hapmap42324-BTA-78714	74.7539	44671060
17	ARS-BFGL-NGS-109945	74.80965	44703759
17	BTB-01442839	74.86086	44733788
17	ARS-BFGL-NGS-13528	74.90299	44758501
17	ARS-BFGL-NGS-73072	75.01199	44822427
17	BTB-01585209	75.16094	44910178
17	ARS-BFGL-NGS-40391	75.18836	44937646
17	ARS-BFGL-NGS-109854	75.21378	44963124
17	ARS-BFGL-NGS-103012	75.24356	44992963
17	Hapmap40066-BTA-40952	75.3959	45145609
17	BTB-01715543	75.4355	45185286
17	BTB-00116464	75.5088	45258744
17	ARS-BFGL-NGS-78123	75.57973	45296748
17	BTB-00116147	75.66238	45324619
17	ARS-BFGL-NGS-115988	75.75618	45356254
17	ARS-BFGL-NGS-30681	75.897	45403748



17	Hapmap29721-BTA-131409	76.01588	45443843	
17	ARS-BFGL-NGS-2441	76.16584	45494414	
17	ARS-BFGL-NGS-81828	76.27859	45532444	
17	ARS-BFGL-NGS-27620	76.40432	45574843	
17	ARS-BFGL-NGS-90053	76.71898	45680965	
17	ARS-BFGL-NGS-105739	76.82304	45716059	
17	ARS-BFGL-NGS-114660	76.88814	45738017	
17	ARS-BFGL-NGS-42633	76.97752	45768162	
17	ARS-BFGL-NGS-103650	77.08106	45803078	
17	ARS-BFGL-NGS-20061	77.18112	45836823	
17	ARS-BFGL-NGS-74285	77.37239	45901331	
17	ARS-BFGL-NGS-86713	77.73991	46029765	
17	Hapmap57740-rs29026403	77.7877	46067538	
17	ARS-BFGL-NGS-115427	77.81397	46088305	
17	Hapmap50682-BTA-41001	77.87958	46140152	
17	ARS-BFGL-NGS-37306	77.91631	46169177	
17	ARS-BFGL-NGS-100015	77.96256	46205732	
17	BTB-00678060	78.07681	46296022	
17	BTA-41003-no-rs	78.1144	46325733	
17	ARS-BFGL-NGS-116914	78.19723	46391190	
17	BTB-01562387	78.24506	46428993	
17	UA-IFASA-6028	78.29545	46468815	
17	ARS-BFGL-NGS-12800	78.32112	46489103	
17	Hapmap38384-BTA-117953	78.35271	46514063	
17	ARS-BFGL-BAC-32111	78.37926	46535046	
17	ARS-BFGL-NGS-79176	78.40931	46558798	
17	Hapmap28761-BTA-159815	78.50725	46636204	
17	BTB-02011105	78.66047	46757291	
17	ARS-BFGL-NGS-61895	78.70395	46791657	
17	ARS-BFGL-NGS-104548	78.76	46898339	
17	BTB-00678183	78.76	47015222	
17	ARS-BFGL-NGS-16934	78.76	47147387	
17	ARS-BFGL-NGS-15039	78.76	47170772	
17	BTB-00678347	78.83117	47226145	
17	ARS-BFGL-NGS-5850	78.8867	47253080	
17	BTA-117207-no-rs	78.91852	47268519	
17	ARS-BFGL-NGS-22208	78.92867	47309946	
17	ARS-BFGL-NGS-89470	78.93398	47334911	
17	ARS-BFGL-NGS-18235	78.94906	47405668	
17	BTB-01953505	78.95557	47436239	
17	ARS-BFGL-NGS-12510	78.96586	47484553	
17	ARS-BFGL-NGS-109621	78.97387	47522156	
17	ARS-BFGL-NGS-48248	78.98224	47561475	
17	ARS-BFGL-NGS-102186	78.99893	47639850	
17	ARS-BFGL-NGS-31862	79.01589	47664855	
17	BTA-27953-no-rs	79.04401	47700237	
17	BTB-01796992	79.08622	47753340	
17	BTA-93763-no-rs	79.114	47788290	
17	ARS-BFGL-NGS-104812	79.13041	47808938	
17	Hapmap34511-BES2_Contig398_735		79.15466	47839446
17	ARS-BFGL-NGS-9657	79.20145	47898312	
17	ARS-BFGL-NGS-22143	79.22381	47926452	
17	ARS-BFGL-NGS-116727	79.25961	47971492	
17	ARS-BFGL-NGS-40659	79.28384	48004067	
17	Hapmap38864-BTA-93656	79.30841	48048314	
17	ARS-BFGL-NGS-102781	79.32843	48084367	
17	ARS-BFGL-NGS-115443	79.34265	48109979	
17	ARS-BFGL-NGS-13635	79.37309	48164813	
17	ARS-BFGL-NGS-115236	79.39109	48197227	

17	ARS-BFGL-NGS-111673	79.42773	48263218
17	ARS-BFGL-NGS-114523	79.43498	48276271
17	Hapmap50826-BTA-93744	79.46555	48331319
17	ARS-BFGL-NGS-113576	79.50229	48397486
17	ARS-BFGL-NGS-111789	79.54758	48479069
17	ARS-BFGL-NGS-101427	79.57167	48522455
17	BTA-88333-no-rs	79.59832	48570446
17	ARS-BFGL-NGS-109873	79.62694	48621989
17	ARS-BFGL-NGS-78287	79.65459	48671784
17	Hapmap38389-BTA-17091	79.67227	48703634
17	Hapmap42713-BTA-87646	79.69647	48747216
17	ARS-BFGL-BAC-32142	79.70661	48765490
17	ARS-BFGL-NGS-75773	79.71934	48788398
17	ARS-BFGL-BAC-32128	79.75962	48860957
17	ARS-BFGL-NGS-87412	79.77522	48889044
17	ARS-BFGL-NGS-10885	79.81361	48958186
17	ARS-BFGL-NGS-67535	79.86142	49044294
17	ARS-BFGL-NGS-55775	79.87559	49069809
17	BTA-41023-no-rs	79.93752	49181363
17	Hapmap49157-BTA-41030	79.96326	49227724
17	ARS-BFGL-NGS-42950	80.13211	49531815
17	ARS-BFGL-NGS-104247	80.158	49578439
17	Hapmap25587-BTA-150034	80.22709	49702881
17	ARS-BFGL-NGS-113061	80.24988	49743917
17	UA-IFASA-2647	80.27643	49791728
17	ARS-BFGL-NGS-112149	80.29681	49828442
17	ARS-BFGL-NGS-17643	80.41826	50047172
17	Hapmap3803-BTA-21924	80.45819	50163822
17	ARS-BFGL-NGS-30619	80.51495	50194955
17	BTA-21929-no-rs	80.62659	50256194
17	BTA-111724-no-rs	80.75069	50324257
17	Hapmap49022-BTA-111730	80.78004	50340355
17	ARS-BFGL-NGS-4366	80.9017	50407079
17	Hapmap41801-BTA-21911	80.94327	50429878
17	ARS-BFGL-NGS-105927	81.01165	50467384
17	Hapmap52540-rs29019474	81.15218	50544468
17	Hapmap42712-BTA-87605	82.25835	51024797
17	ARS-BFGL-NGS-35058	82.40533	51076762
17	ARS-BFGL-NGS-75066	82.46352	51097333
17	ARS-BFGL-NGS-109813	84.29916	51746326
17	Hapmap42354-BTA-89491	85.46034	52156863
17	ARS-BFGL-NGS-9438	85.6319	52217521
17	ARS-BFGL-NGS-85209	85.79875	52276513
17	ARS-BFGL-NGS-17507	85.93486	52324632
17	ARS-BFGL-NGS-5866	86.05282	52366335
17	ARS-BFGL-NGS-96193	86.19475	52416517
17	BTA-09374-rs29025536	86.55533	52544000
17	ARS-BFGL-NGS-119434	86.65	52577471
17	ARS-BFGL-NGS-66210	86.82238	52638414
17	ARS-BFGL-NGS-99210	87.1123	52740918
17	ARS-BFGL-NGS-13988	87.21774	52778195
17	ARS-BFGL-NGS-112366	87.30637	52809531
17	Hapmap52863-rs29024498	87.47654	52960684
17	ARS-BFGL-NGS-90228	87.55946	53021559
17	ARS-BFGL-NGS-115019	87.59451	53067783
17	BTA-41066-no-rs	87.61808	53098878
17	ARS-BFGL-NGS-39854	87.67961	53180044
17	ARS-BFGL-NGS-17182	87.79968	53338437
17	ARS-BFGL-NGS-97857	87.83162	53380564

17	ARS-BFGL-NGS-91823	87.86387	53423099
17	Hapmap44301-BTA-85555	87.88833	53455368
17	ARS-BFGL-NGS-30185	87.94329	53527870
17	Hapmap39519-BTA-85553	88.01318	53620065
17	ARS-BFGL-NGS-77566	88.09119	53722972
17	ARS-BFGL-NGS-16886	88.11563	53755199
17	ARS-BFGL-NGS-107312	88.14739	53797095
17	ARS-BFGL-NGS-17071	88.18871	53851601
17	ARS-BFGL-NGS-78006	88.24463	53925368
17	ARS-BFGL-BAC-34063	88.27676	53967748
17	ARS-BFGL-NGS-30811	88.28867	53983467
17	ARS-BFGL-NGS-61992	88.32051	54025463
17	Hapmap41256-BTA-41115	88.34085	54052291
17	Hapmap32296-BTA-131448	88.53829	54312738
17	ARS-BFGL-NGS-116543	88.61108	54408755
17	ARS-BFGL-NGS-14183	88.64764	54456978
17	Hapmap57269-ss46526874	88.72801	54563001
17	BTA-41091-no-rs	88.76511	54611931
17	Hapmap47942-BTA-41087	88.79543	54651938
17	ARS-BFGL-NGS-117189	88.89533	54783714
17	ARS-BFGL-NGS-17680	88.91169	54805293
17	ARS-BFGL-BAC-34060	88.93507	54836125
17	ARS-BFGL-NGS-16431	88.9519	54858337
17	ARS-BFGL-NGS-82359	89.01773	54945167
17	Hapmap60750-rs29010166	89.09464	55046617
17	ARS-BFGL-NGS-27920	89.11715	55076312
17	Hapmap52137-rs29018289	89.13931	55105554
17	Hapmap55514-rs29015079	89.22688	55221058
17	ARS-BFGL-NGS-63640	89.24804	55248967
17	ARS-BFGL-NGS-23393	89.2766	55286636
17	Hapmap54487-rs29018040	89.29744	55314133
17	BTA-41195-no-rs	89.31676	55339623
17	BTA-121093-no-rs	89.33733	55366744
17	Hapmap54286-ss46526589	89.37609	55417883
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17	BTA-41203-no-rs	89.45325	55519655
17	ARS-BFGL-NGS-64029	89.48367	55559792
17	ARS-BFGL-NGS-106267	89.51	55637193
17	Hapmap32890-BTA-41181	89.51	55658355
17	ARS-BFGL-NGS-109801	89.51	55713369
17	ARS-BFGL-NGS-119542	89.51782	55741625
17	ARS-BFGL-NGS-21071	89.52763	55764236
17	ARS-BFGL-NGS-99108	89.53525	55781808
17	ARS-BFGL-NGS-22276	89.55008	55816005
17	Hapmap47284-BTA-41164	89.56621	55853187
17	Hapmap56365-rs29022398	89.57984	55884612
17	ARS-BFGL-NGS-36082	89.59354	55916203
17	ARS-BFGL-NGS-116817	89.6214	55980423
17	ARS-BFGL-NGS-91325	89.6402	56023773
17	Hapmap59518-rs29027553	89.66352	56077546
17	ARS-BFGL-NGS-106879	89.68518	56127482
17	ARS-BFGL-NGS-111753	89.69976	56161089
17	ARS-BFGL-NGS-41667	89.70881	56181953
17	Hapmap49158-BTA-41145	89.73171	56234762
17	ARS-BFGL-NGS-57149	89.76446	56310258
17	ARS-BFGL-NGS-111058	89.77937	56344620
17	Hapmap33195-BTA-131536	89.80814	56410954
17	ARS-USMARC-Parent-AY860426-no-rs	89.8522	56512519

17	ARS-BFGL-NGS-105994	89.85307	56514551	
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17	ARS-BFGL-NGS-104307	89.90107	56625212	
17	BTB-00679561	89.94611	56729059	
17	ARS-BFGL-NGS-7529	89.96295	56767881	
17	Hapmap34428-BES2_Contig387_701		90.02537	56823469
17	ARS-BFGL-NGS-3993	90.35564	56941968	
17	ARS-BFGL-NGS-118650	90.41576	56963536	
17	ARS-BFGL-NGS-5696	90.55126	57012156	
17	Hapmap43572-BTA-41227	90.64361	57045290	
17	ARS-BFGL-NGS-117067	90.70927	57068849	
17	ARS-BFGL-NGS-21400	90.79163	57109193	
17	ARS-BFGL-NGS-100555	90.81715	57131089	
17	ARS-BFGL-BAC-34676	90.86558	57172637	
17	UA-IFASA-4960	90.9013	57203284	
17	ARS-BFGL-NGS-108656	90.931	57228766	
17	Hapmap34825-BES1_Contig394_854		90.95712	57251180
17	ARS-BFGL-NGS-39186	90.99578	57284351	
17	ARS-BFGL-NGS-42534	91.04722	57328483	
17	ARS-BFGL-NGS-73290	91.07257	57350232	
17	ARS-BFGL-NGS-783	91.33154	57572420	
17	BTB-00678784	91.36304	57599454	
17	UA-IFASA-3085	91.40693	57637104	
17	ARS-BFGL-NGS-116135	91.51807	57732465	
17	Hapmap40426-BTA-41269	91.59713	57800291	
17	Hapmap55600-rs29021810	91.72999	57914284	
17	Hapmap48323-BTA-41259	91.80522	57978830	
17	Hapmap48751-BTA-41232	91.84962	58016927	
17	BTA-16789-no-rs	91.87949	58043505	
17	Hapmap43574-BTA-41267	91.93663	58095342	
17	BTB-01100978	91.98769	58141663	
17	BTA-25636-no-rs	92.01352	58165092	
17	ARS-BFGL-NGS-21538	92.37639	58257914	
17	Hapmap38210-BTA-25613	92.48746	58285008	
17	ARS-BFGL-NGS-34592	92.52533	58321127	
17	ARS-BFGL-NGS-24692	92.55207	58374544	
17	Hapmap59412-ss46526180	92.56784	58406042	
17	BTA-25627-no-rs	92.58417	58438656	
17	Hapmap36184-SCAFFOLD281013_11223		92.60055	58471380
17	BTA-25628-no-rs	92.61361	58497468	
17	ARS-BFGL-NGS-37449	92.66579	58601715	
17	ARS-BFGL-NGS-20935	92.68934	58648743	
17	Hapmap59353-rs29024188	92.70828	58686592	
17	ARS-BFGL-NGS-54784	92.73203	58734028	
17	Hapmap54759-rs29012166	92.77939	58821993	
17	ARS-BFGL-NGS-116969	92.83076	58907025	
17	Hapmap43749-BTA-104425	92.86649	58966184	
17	ARS-BFGL-NGS-111375	92.88965	59004512	
17	ARS-BFGL-NGS-55560	92.91315	59043406	
17	ARS-BFGL-NGS-788	92.9417	59090672	
17	BTB-00679975	92.95473	59112241	
17	BTB-00680005	93.00573	59196656	
17	BTB-00680019	93.03262	59241175	
17	ARS-BFGL-NGS-17239	93.08064	59320664	
17	BTA-41342-no-rs	93.13997	59418869	
17	Hapmap60554-rs29024448	93.15855	59449631	
17	ARS-BFGL-NGS-2226	93.18501	59493419	
17	Hapmap33827-BES10_Contig357_1268		93.21371	59540930

17	Hapmap50684-BTA-41345	93.2289	59566080
17	ARS-BFGL-NGS-88479	93.26983	59633487
17	BTB-00680348	93.29036	59667303
17	BTB-00680449	93.31297	59704530
17	ARS-BFGL-NGS-112404	93.34029	59749528
17	Hapmap40934-BTA-27274	93.35813	59778912
17	ARS-BFGL-NGS-116162	93.381	59816580
17	Hapmap47197-BTA-121099	93.41011	59864519
17	ARS-BFGL-NGS-114904	93.43586	59906933
17	ARS-BFGL-NGS-17172	93.4503	59930714
17	ARS-BFGL-NGS-10055	93.47433	59970299
17	ARS-BFGL-NGS-30971	93.50166	60015292
17	ARS-BFGL-NGS-95598	93.53464	60069612
17	ARS-BFGL-BAC-35984	93.54947	60094033
17	BTB-00681505	93.57	60165864
17	ARS-BFGL-NGS-27713	93.57	60248818
17	Hapmap41258-BTA-41381	93.57	60289891
17	ARS-BFGL-NGS-117137	93.57	60340222
17	ARS-BFGL-NGS-118636	93.57	60366064
17	BTB-00681735	93.57	60394453
17	ARS-BFGL-NGS-3759	93.65633	60561601
17	ARS-BFGL-BAC-35987	93.68393	60584522
17	Hapmap39551-BTA-23548	93.7178	60612635
17	ARS-BFGL-NGS-58775	93.7989	60679968
17	ARS-BFGL-NGS-113171	93.83693	60711532
17	BTB-01327818	93.87846	60746006
17	BTB-00682032	94.0029	60849321
17	BTB-00682000	94.0414	60881278
17	Hapmap48324-BTA-41405	94.10146	60931137
17	Hapmap38836-BTA-41399	94.15457	60975232
17	BTB-00681880	94.18365	60999373
17	BTB-00681839	94.25012	61054556
17	Hapmap49600-BTA-41398	94.28337	61082159
17	ARS-BFGL-NGS-54448	94.48379	61248541
17	Hapmap40696-BTA-24595	94.5089	61269381
17	ARS-BFGL-NGS-110404	94.53477	61290868
17	BTA-112642-no-rs	94.55939	61311307
17	ARS-BFGL-NGS-92041	94.60897	61352459
17	ARS-BFGL-NGS-1385	94.66805	61401502
17	ARS-BFGL-NGS-4075	94.76965	61485853
17	ARS-BFGL-NGS-26121	94.81416	61522805
17	ARS-BFGL-NGS-104295	94.8539	61555800
17	ARS-BFGL-NGS-57403	94.89764	61592105
17	Hapmap41708-BTA-99722	94.93706	61624831
17	Hapmap48551-BTA-00714	95.0604	61676258
17	BTA-41446-no-rs	95.16071	61717064
17	ARS-BFGL-NGS-75591	95.33588	61788328
17	ARS-BFGL-NGS-1369	95.4081	61817712
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17	BTB-00682421	95.49186	61920415
17	BTB-00682446	95.57114	61955493
17	ARS-BFGL-NGS-7699	95.62513	61979378
17	ARS-BFGL-NGS-118025	95.69837	62011781
17	Hapmap48683-BTA-21166	95.83211	62070942
17	ARS-BFGL-NGS-10501	95.89822	62100192
17	ARS-BFGL-NGS-102905	95.95976	62127421
17	Hapmap57796-rs29012758	96.03369	62160129
17	Hapmap42132-BTA-21144	96.10832	62193144
17	BTB-01095540	96.1552	62213889

17	ARS-BFGL-NGS-46768	96.24699	62254497	
17	BTA-122705-no-rs	96.32882	62290698	
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17	ARS-BFGL-NGS-75936	96.42011	62331085	
17	ARS-BFGL-NGS-119720	96.51511	62373110	
17	BTA-21159-no-rs	96.6512	62433322	
17	Hapmap58438-rs29027567	96.69804	62454044	
17	Hapmap51186-BTA-21161	96.81274	62504788	
17	ARS-BFGL-NGS-43373	96.88275	62535762	
17	BTA-21162-no-rs	96.9613	62570507	
17	Hapmap50278-BTA-21163	97.01124	62592605	
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17	ARS-BFGL-NGS-36014	97.2546	62700273	
17	Hapmap43511-BTA-21167	97.35524	62758681	
17	ARS-BFGL-NGS-113440	97.55763	62891304	
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17	ARS-BFGL-NGS-62660	97.74288	63012699	
17	ARS-BFGL-NGS-39993	97.79852	63049154	
17	ARS-BFGL-NGS-76629	97.81982	63063122	
17	ARS-BFGL-NGS-110646	97.93823	63140712	
17	ARS-BFGL-NGS-3221	98.11311	63255304	
17	Hapmap50685-BTA-41728	98.15589	63283340	
17	ARS-BFGL-NGS-94395	98.22064	63325773	
17	ARS-BFGL-NGS-67232	98.28292	63366584	
17	ARS-BFGL-NGS-32760	98.3251	63394223	
17	Hapmap35908-SCAFFOLD62866_5199		98.35824	63415937
17	ARS-BFGL-NGS-111537	98.4081	63448612	
17	ARS-BFGL-NGS-77442	98.45671	63480469	
17	Hapmap52830-rs29014800	98.55014	63541690	
17	ARS-BFGL-NGS-30532	98.58204	63562594	
17	ARS-BFGL-NGS-65368	98.63493	63597253	
17	Hapmap60900-rs29022475	98.67908	63626189	
17	Hapmap42207-BTA-41682	98.76947	63685416	
17	ARS-BFGL-NGS-29331	98.87378	63753770	
17	ARS-BFGL-NGS-113849	98.90634	63775109	
17	ARS-BFGL-NGS-68142	98.93721	63795337	
17	ARS-BFGL-NGS-108546	99.02905	63855514	
17	ARS-BFGL-NGS-40427	99.15726	63939534	
17	Hapmap24163-BTA-160726	99.26775	64011938	
17	BTB-01301223	99.32475	64049290	
17	Hapmap38158-BTA-41654	99.5	64142204	
17	BTA-41648-no-rs	99.5	64164801	
17	Hapmap49162-BTA-41646	99.50013	64189856	
17	BTA-41643-no-rs	99.64002	64281632	
17	ARS-BFGL-NGS-39284	99.68141	64308786	
17	ARS-BFGL-NGS-50172	99.73232	64342186	
17	Hapmap53501-rs29016784	99.84578	64416614	
17	BTB-00684402	99.91409	64461431	
17	BTB-00685005	99.99841	64516751	
17	ARS-BFGL-NGS-114034	100.0901	64576912	
17	ARS-BFGL-NGS-107698	100.11	64637527	
17	BTA-41745-no-rs	100.1366	64665467	
17	ARS-BFGL-NGS-28305	100.1944	64696267	
17	ARS-BFGL-NGS-23799	100.303	64754159	
17	ARS-BFGL-NGS-119741	100.3594	64784269	
17	ARS-BFGL-BAC-36626	100.4701	64843236	
17	BTB-00684828	100.5383	64879624	
17	ARS-BFGL-NGS-105109	100.6009	64912981	
17	Hapmap57042-rs29016514	100.6717	64950742	

17	ARS-BFGL-BAC-36625	100.7308	64982245
17	BTB-00675021	100.7869	65012118
17	BTB-01998842	100.8497	65045637
17	BTB-01992588	100.8984	65071599
17	ARS-BFGL-NGS-118407	101.1186	65188947
17	Hapmap58313-ss46526744	101.1737	65218329
17	ARS-BFGL-NGS-39345	101.2474	65257603
17	Hapmap50355-BTA-41590	101.3677	65321730
17	BTB-00684047	101.5023	65393511
17	ARS-BFGL-NGS-104905	101.5631	65425899
17	Hapmap49603-BTA-41587	101.6031	65447238
17	ARS-BFGL-NGS-34489	101.7392	65519800
17	ARS-BFGL-BAC-36594	101.8085	65547385
17	BTB-00683809	101.8758	65572470
17	ARS-BFGL-NGS-105782	101.9424	65597327
17	ARS-BFGL-NGS-21965	102.0636	65642547
17	ARS-BFGL-NGS-24750	102.1214	65664085
17	ARS-BFGL-NGS-111330	102.219	65700521
17	ARS-BFGL-NGS-114253	102.3474	65748385
17	ARS-BFGL-NGS-112123	102.4083	65771136
17	ARS-BFGL-NGS-23944	102.4979	65804551
17	ARS-BFGL-NGS-25279	102.5768	65833965
17	UA-IFASA-6645	102.6641	65866532
17	ARS-BFGL-NGS-102231	102.7315	65891668
17	ARS-BFGL-NGS-115604	102.817	65923565
17	BTB-00683557	102.9031	65955687
17	BTB-00683408	102.96	65987715
17	ARS-BFGL-NGS-68160	103.0962	66056749
17	ARS-BFGL-NGS-111681	103.2149	66095292
17	ARS-BFGL-NGS-94330	103.2777	66115692
17	ARS-BFGL-NGS-5848	103.346	66164570
17	ARS-BFGL-BAC-36611	103.3978	66206057
17	ARS-BFGL-NGS-17192	103.4361	66236750
17	BTB-00682926	103.4756	66268354
17	ARS-BFGL-NGS-114482	103.5212	66304866
17	ARS-BFGL-NGS-30065	103.6004	66368315
17	ARS-BFGL-NGS-52965	103.6455	66404458
17	ARS-BFGL-NGS-22098	103.712	66457728
17	Hapmap42205-BTA-41451	103.7754	66508518
17	ARS-BFGL-NGS-36119	103.8345	66555864
17	ARS-BFGL-NGS-53285	103.8612	66577268
17	ARS-BFGL-NGS-34106	103.9147	66619908
17	Hapmap24572-BTA-154734	103.9583	66654471
17	Hapmap40427-BTA-41914	103.9802	66671839
17	ARS-BFGL-NGS-84420	104.0474	66725091
17	ARS-BFGL-NGS-62454	104.0804	66751217
17	ARS-BFGL-NGS-36206	104.1801	66830235
17	ARS-BFGL-NGS-110797	104.2263	66866843
17	ARS-BFGL-NGS-119559	104.3583	66971462
17	ARS-BFGL-NGS-5584	104.3899	66992594
17	ARS-BFGL-NGS-101386	104.427	67017094
17	BTA-41804-no-rs	104.6004	67131762
17	BTB-00686787	104.6431	67160019
17	ARS-BFGL-NGS-111098	104.6933	67193210
17	Hapmap51227-BTA-41809	104.7284	67216420
17	BTB-00686912	104.7731	67245920
17	ARS-BFGL-NGS-41791	104.8116	67271374
17	Hapmap51408-BTA-121104	104.8686	67309106
17	ARS-BFGL-NGS-20716	104.9232	67345189

17	ARS-BFGL-NGS-100379	104.9688	67375320
17	ARS-BFGL-NGS-36532	105.0648	67438814
17	UA-IFASA-6855	105.13	67481913
17	Hapmap47558-BTA-28226	105.1656	67505450
17	Hapmap42013-BTA-95670	105.2272	67546210
17	ARS-BFGL-NGS-72292	105.3176	67605994
17	Hapmap48532-BTA-95668	105.3493	67626935
17	BTB-00686240	105.4016	67661532
17	Hapmap38313-BTA-41796	105.4488	67692696
17	ARS-BFGL-NGS-118351	105.5515	67760646
17	BTB-01899397	105.5885	67785072
17	ARS-BFGL-NGS-118399	105.6384	67818070
17	ARS-BFGL-NGS-109870	105.6883	67851096
17	ARS-BFGL-NGS-92298	105.7355	67882288
17	ARS-BFGL-NGS-27727	105.7776	67910146
17	Hapmap47607-BTA-41787	105.8248	67941337
17	Hapmap41535-BTA-41786	105.8771	67975896
17	ARS-BFGL-NGS-71116	105.9174	68002540
17	ARS-BFGL-NGS-110275	105.9559	68028037
17	BTA-41779-no-rs	106.23	68058609
17	ARS-BFGL-NGS-114711	106.23	68092796
17	ARS-BFGL-NGS-16635	106.23	68143571
17	ARS-BFGL-NGS-104430	106.2354	68187177
17	ARS-BFGL-NGS-30538	106.2878	68221835
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17	ARS-BFGL-NGS-118879	106.4913	68356297
17	BTA-36055-no-rs	106.6174	68393191
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17	Hapmap58852-rs29023414	107.0284	68468706
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17	ARS-BFGL-NGS-52835	107.448	68545781
17	ARS-BFGL-NGS-88726	107.5563	68565693
17	ARS-BFGL-NGS-117602	107.703	68592639
17	BTB-01303083	108.0723	68660499
17	ARS-BFGL-NGS-3756	108.2989	68702128
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17	BTB-01122011	108.54	68815004
17	ARS-BFGL-NGS-63537	108.5619	68839081
17	BTB-01121971	108.6141	68864498
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17	ARS-BFGL-NGS-56260	108.7954	68952931
17	ARS-BFGL-NGS-22945	108.8455	68977349
17	ARS-BFGL-NGS-57507	108.9032	69005486
17	ARS-BFGL-NGS-11355	108.9846	69030893
17	ARS-BFGL-NGS-46018	109.0657	69054924
17	BTB-01121732	109.1673	69085018
17	ARS-BFGL-NGS-33185	109.2572	69111646
17	ARS-BFGL-NGS-114654	109.3467	69138161
17	BTB-01232061	109.5923	69210929
17	ARS-BFGL-NGS-13495	109.7832	69267462
17	ARS-BFGL-NGS-109830	109.9353	69312539
17	ARS-BFGL-NGS-98816	110.1953	69389533
17	ARS-BFGL-NGS-20761	110.4302	69459128
17	ARS-BFGL-NGS-33241	110.5574	69496828
17	Hapmap41731-BTA-102491	111.8039	69572942
17	ARS-BFGL-BAC-35593	112.7615	69703894
17	BTB-01130340	113.0086	69768638



17	BTB-01130358	113.0655	69832994	
17	BTB-01130451	113.0922	69863344	
17	BTB-01130516	113.3322	69967255	
17	Hapmap53987-rs29024578	113.59	70135223	
17	ARS-BFGL-NGS-103734	113.59	70290307	
17	Hapmap50686-BTA-41836	113.59	70329661	
17	ARS-BFGL-NGS-93586	113.59	70358455	
17	Hapmap47002-BTA-41821	113.59	70408777	
17	ARS-BFGL-NGS-78487	113.59	70443042	
17	ARS-BFGL-NGS-36892	113.59	70460874	
17	ARS-BFGL-NGS-33819	113.59	70549798	
17	ARS-BFGL-NGS-110635	113.59	70632532	
17	BTB-00685397	113.59	70699234	
17	ARS-BFGL-NGS-104070	113.6033	70728195	
17	ARS-BFGL-NGS-1166	113.6454	70755087	
17	ARS-BFGL-NGS-62271	113.6795	70776835	
17	ARS-BFGL-NGS-14064	113.7391	70814867	
17	ARS-BFGL-NGS-74139	113.7904	70847622	
17	ARS-BFGL-NGS-116026	113.9014	70918515	
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17	ARS-BFGL-NGS-69511	114.1208	71058543	
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17	BTA-41874-no-rs	114.2881	71165342	
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17	ARS-BFGL-NGS-78729	114.3912	71231159	
17	ARS-BFGL-NGS-10248	114.4377	71260851	
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17	Hapmap36224-SCAFFOLD85606_7256		114.5308	71318673
17	ARS-BFGL-BAC-35623	114.5996	71352459	
17	ARS-BFGL-NGS-36744	114.6589	71381577	
17	ARS-BFGL-NGS-31243	114.7744	71438234	
17	ARS-BFGL-NGS-116537	114.9076	71503614	
17	ARS-BFGL-NGS-33332	115.0651	71585018	
17	Hapmap53106-rs29017719	115.085	71610886	
17	ARS-BFGL-NGS-55673	115.1536	71700273	
17	ARS-BFGL-NGS-102932	115.1844	71740386	
17	BTB-00689266	115.203	71764498	
17	BTB-01564517	115.2441	71818121	
17	ARS-BFGL-NGS-5369	115.2623	71841734	
17	ARS-BFGL-NGS-42282	115.2819	71867249	
17	ARS-BFGL-NGS-80663	115.3021	71893552	
17	BTB-00689316	115.3263	71925055	
17	BTB-00689329	115.3719	71959105	
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17	ARS-BFGL-NGS-67597	115.7674	72063677	
17	ARS-BFGL-NGS-112820	115.8663	72084838	
17	ARS-BFGL-NGS-23779	116.0887	72132391	
17	ARS-BFGL-NGS-118873	116.2545	72180821	
17	ARS-BFGL-NGS-102559	116.3125	72202151	
17	ARS-BFGL-NGS-32386	116.3811	72227339	
17	BTA-41935-no-rs	116.5376	72284836	
17	ARS-BFGL-NGS-28077	116.6596	72329662	
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17	UA-IFASA-5513	116.9834	72448619	
17	ARS-BFGL-NGS-103276	117.0734	72481707	
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17	ARS-BFGL-NGS-17791	117.3403	72579763
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17	ARS-BFGL-NGS-102993	118.7199	72987826
17	ARS-BFGL-NGS-99737	119.0453	73055503
17	ARS-BFGL-NGS-41599	119.3457	73118011
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17	ARS-BFGL-NGS-29181	119.7707	73206420
17	ARS-BFGL-NGS-17005	120.0176	73257794
17	BTB-00687779	120.1806	73291697
17	ARS-BFGL-NGS-117653	120.2932	73315120
17	BTB-01973064	120.4597	73349750
17	ARS-BFGL-NGS-26126	120.7421	73466889
17	ARS-BFGL-NGS-74168	120.7497	73488482
17	ARS-BFGL-NGS-65774	120.7578	73511787
17	ARS-BFGL-NGS-74649	120.7747	73559752
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17	ARS-BFGL-NGS-117728	120.8164	73678846
17	ARS-BFGL-NGS-103074	120.8191	73686552
17	ARS-BFGL-NGS-14960	120.8284	73713062
17	UA-IFASA-3769	120.84	73747101
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17	ARS-BFGL-NGS-103716	121.0367	73868185
17	ARS-BFGL-NGS-12921	121.2271	73915069
17	ARS-BFGL-NGS-113625	121.3483	73944911
17	ARS-BFGL-NGS-111900	121.4162	73961642
17	ARS-BFGL-NGS-23711	121.7048	74032690
17	ARS-BFGL-NGS-16824	121.8476	74067870
17	Hapmap49164-BTA-42015	122.075	74123863
17	ARS-BFGL-NGS-22814	122.1989	74154357
17	ARS-BFGL-NGS-94657	122.5234	74234279
17	UA-IFASA-6850	122.6124	74256192
17	ARS-BFGL-NGS-58770	122.7591	74292319
17	ARS-BFGL-NGS-115643	122.8933	74325363
17	ARS-BFGL-NGS-41299	122.9697	74344162
17	ARS-BFGL-NGS-22436	123.1705	74393620
17	ARS-BFGL-NGS-111414	123.3534	74438639
17	Hapmap48752-BTA-41973	123.5254	74481008
17	ARS-BFGL-NGS-71269	123.7366	74533008
17	ARS-BFGL-NGS-73313	124.0416	74598498
17	ARS-BFGL-NGS-44494	124.1765	74627267
17	ARS-BFGL-NGS-102576	124.3611	74666629
17	ARS-BFGL-NGS-117289	124.6283	74723634
17	ARS-BFGL-NGS-61354	124.7445	74748408
17	BTA-87270-no-rs	125.0804	74817054
17	UA-IFASA-6883	125.668	74898756
17	ARS-BFGL-NGS-108169	125.8631	74925889
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17	ARS-BFGL-NGS-109409	126.151	74965918
17	ARS-BFGL-NGS-18349	126.3842	74998349
18	ARS-BFGL-NGS-111927	0.9483	577447
18	ARS-BFGL-NGS-26405	1.896341	818901
18	ARS-BFGL-NGS-18307	2.099458	892087
18	ARS-BFGL-NGS-118676	2.2175	934619
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18	ARS-BFGL-NGS-112102	2.354863	984113
18	ARS-BFGL-NGS-33749	2.50458	1038058

18	ARS-BFGL-NGS-57978	2.660254	1094150		
18	ARS-BFGL-NGS-21711	2.780869	1137609		
18	ARS-BFGL-NGS-107899	2.989392	1212743		
18	ARS-BFGL-NGS-83593	3.498056	1396022		
18	Hapmap39054-BTA-16097	3.570388	1422084		
18	ARS-BFGL-NGS-88592	3.748785	1486363		
18	BTA-44168-no-rs	4.039137	1590981		
18	ARS-BFGL-NGS-97709	4.286485	1680104		
18	ARS-BFGL-NGS-37194	4.427276	1730833		
18	ARS-BFGL-NGS-22387	4.48563	1751859		
18	ARS-BFGL-NGS-5469	4.615395	1798615		
18	ARS-USMARC-Parent-EF028073-rs29014953	4.729512	1839733	4.729512	1839733
18	Hapmap57363-rs29014953	4.729512	1839733		
18	ARS-BFGL-NGS-99600	4.828517	1875406		
18	ARS-BFGL-BAC-36904	5.128588	1983526		
18	ARS-BFGL-NGS-116116	5.187165	2004632		
18	BTB-00690781	5.30552	2047277		
18	BTA-44477-no-rs	5.474802	2108272		
18	ARS-BFGL-NGS-88567	5.629229	2163914		
18	ARS-BFGL-NGS-111505	5.707336	2191562		
18	ARS-BFGL-NGS-111729	5.788011	2220037		
18	ARS-BFGL-NGS-1030	5.924129	2268081		
18	ARS-BFGL-BAC-33133	6.133657	2342036		
18	ARS-BFGL-NGS-65788	6.418318	2442510		
18	ARS-BFGL-NGS-55735	6.57562	2498031		
18	Hapmap56936-ss46526655	6.878878	2605069		
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18	BTA-30511-no-rs	7.19567	2716884		
18	ARS-BFGL-NGS-16731	7.412075	2793266		
18	Hapmap47948-BTA-42577	7.498357	2823720		
18	Hapmap49988-BTA-42565	7.630193	2864232		
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18	ARS-BFGL-NGS-117493	8.765967	3038623		
18	BTB-01040984	8.924967	3080400		
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18	ARS-BFGL-NGS-105924	9.04668	3146088		
18	BTB-01040787	9.105484	3177824		
18	BTB-01947967	9.277533	3270677		
18	BTA-42610-no-rs	9.362018	3316273		
18	BTB-00691673	9.458481	3368333		
18	BTB-01590114	9.550353	3417916		
18	BTA-106161-no-rs	9.645802	3471458		
18	Hapmap52899-rs29009847	9.695106	3499387		
18	ARS-BFGL-NGS-50848	10.96542	3783818		
18	Hapmap24573-BTA-155214	11.08908	3809955		
18	ARS-BFGL-NGS-95777	11.53648	3916489		
18	Hapmap27632-BTA-157047	11.66843	3959216		
18	ARS-BFGL-NGS-17831	11.73194	3979781		
18	Hapmap32355-BTA-154136	12.24789	4146848		
18	ARS-BFGL-NGS-34074	12.51129	4232138		
18	Hapmap43580-BTA-43969	12.66164	4271633		
18	BTB-01617999	12.82866	4310615		
18	BTB-01617957	12.98342	4346736		
18	ARS-BFGL-NGS-35513	13.19989	4397257		
18	Hapmap57004-rs29011610	13.48192	4463083		
18	Hapmap47619-BTA-43853	13.7486	4525324		
18	Hapmap26380-BTA-131940	13.95113	4572593		
18	ARS-BFGL-NGS-52733	14.06014	4598036		

18	BTA-05945-rs29020096	14.14521	4620481
18	BTA-43822-no-rs	14.21346	4641428
18	ARS-BFGL-NGS-76950	14.35771	4685705
18	ARS-BFGL-NGS-29837	14.48219	4723911
18	BTA-43768-no-rs	14.79557	4820101
18	ARS-BFGL-NGS-26589	14.90145	4852600
18	Hapmap40735-BTA-43736	15.05363	4899308
18	ARS-BFGL-NGS-107913	15.19206	4941799
18	ARS-BFGL-NGS-114894	15.33767	4986492
18	ARS-BFGL-NGS-89598	15.54761	5050930
18	ARS-BFGL-NGS-76223	15.71092	5101055
18	ARS-BFGL-NGS-79168	15.78709	5124435
18	BTA-43624-no-rs	15.85903	5146517
18	ARS-BFGL-NGS-33650	15.92941	5168119
18	Hapmap48340-BTA-43615	16.02427	5197235
18	ARS-BFGL-NGS-85483	16.41323	5274463
18	ARS-BFGL-NGS-16075	16.83681	5383748
18	ARS-BFGL-NGS-100294	16.85497	5405616
18	ARS-BFGL-NGS-100029	16.91116	5473290
18	ARS-BFGL-NGS-24934	16.97117	5545560
18	ARS-BFGL-NGS-109351	17.04452	5593975
18	ARS-BFGL-NGS-62981	17.24429	5655435
18	ARS-BFGL-NGS-70300	17.34002	5684886
18	ARS-BFGL-NGS-3444	17.45913	5721529
18	ARS-BFGL-NGS-5779	17.62	5797790
18	BTA-121111-no-rs	19.28478	6167367
18	ARS-BFGL-NGS-58073	19.42572	6197490
18	ARS-BFGL-NGS-113984	19.52291	6218264
18	ARS-BFGL-NGS-115549	19.65294	6246055
18	ARS-BFGL-NGS-33562	19.80696	6278975
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18	ARS-BFGL-NGS-41987	20.15069	6352441
18	ARS-BFGL-NGS-19328	20.24382	6372346
18	ARS-BFGL-NGS-38945	20.36143	6397483
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18	Hapmap25247-BTA-131903	20.75264	6481097
18	ARS-BFGL-BAC-36898	20.84903	6501699
18	ARS-BFGL-NGS-4860	20.94901	6523067
18	ARS-BFGL-NGS-85872	21.04435	6543445
18	ARS-BFGL-NGS-100633	21.16405	6569028
18	ARS-BFGL-NGS-58546	21.3154	6601312
18	ARS-BFGL-NGS-101349	21.5732	6656191
18	ARS-BFGL-NGS-2504	21.73531	6690700
18	BTA-03029-rs29010796	22.02587	6752552
18	Hapmap54020-rs29023153	22.13852	6776532
18	Hapmap23072-BTA-131895	22.32442	6816107
18	ARS-BFGL-NGS-31035	22.52186	6858136
18	BTA-42870-no-rs	22.69207	6894368
18	ARS-BFGL-NGS-109552	22.88118	6934625
18	ARS-BFGL-NGS-93178	23.00901	6961838
18	ARS-BFGL-NGS-112554	23.25503	7014208
18	Hapmap46814-BTA-42768	23.65964	7100339
18	ARS-BFGL-NGS-44254	23.77849	7125638
18	Hapmap42554-BTA-44332	24.16776	7208505
18	Hapmap58215-rs29015804	24.27984	7232363
18	ARS-BFGL-NGS-14811	24.493	7277738
18	ARS-BFGL-NGS-115092	24.74795	7332011
18	ARS-BFGL-NGS-70903	25.00394	7386505
18	BTB-00695596	25.18711	7425496

18	ARS-BFGL-NGS-101968	25.37447	7468305	
18	BTB-01874436	25.57716	7552426	
18	ARS-BFGL-NGS-54767	25.70457	7605307	
18	Hapmap52589-rs29020496	25.76617	7630875	
18	ARS-BFGL-BAC-28014	25.85826	7669094	
18	ARS-BFGL-NGS-33807	25.94334	7704404	
18	BTA-44411-no-rs	25.99398	7725422	
18	ARS-BFGL-NGS-114129	26.22066	7819498	
18	Hapmap40737-BTA-44406	26.27118	7840467	
18	ARS-BFGL-NGS-12019	26.33979	7868943	
18	ARS-BFGL-NGS-116350	26.44845	7914040	
18	ARS-BFGL-NGS-31043	26.67034	8006133	
18	ARS-BFGL-NGS-73708	26.74509	8037156	
18	BTA-44392-no-rs	26.80422	8061697	
18	ARS-BFGL-NGS-7712	26.89626	8099896	
18	ARS-BFGL-NGS-56265	27.04963	8163550	
18	ARS-BFGL-NGS-30750	27.12372	8194300	
18	ARS-BFGL-NGS-15848	27.21944	8234025	
18	ARS-BFGL-NGS-27203	27.28736	8262213	
18	ARS-BFGL-NGS-39721	27.3506	8288461	
18	ARS-BFGL-NGS-1162	27.44301	8326812	
18	ARS-BFGL-NGS-111477	27.49689	8349174	
18	ARS-BFGL-NGS-34817	27.58189	8384452	
18	ARS-BFGL-NGS-92227	27.6453	8410770	
18	Hapmap58328-rs29013933	27.71321	8438957	
18	ARS-BFGL-NGS-111124	27.78091	8467054	
18	ARS-BFGL-NGS-85724	27.86098	8500285	
18	ARS-BFGL-NGS-64628	28.08416	8592912	
18	BTA-44437-no-rs	28.51104	8729030	
18	ARS-BFGL-NGS-103372	28.62927	8765998	
18	BTB-00698623	28.755	8805310	
18	Hapmap24845-BTA-147038	28.8966	8849584	
18	ARS-BFGL-NGS-110670	29.1103	8916401	
18	ARS-BFGL-NGS-1101	29.2546	8961520	
18	ARS-BFGL-NGS-41847	29.48416	9033298	
18	ARS-BFGL-NGS-31971	29.5711	9060482	
18	Hapmap54730-rs29023634	29.6416	9082526	
18	ARS-BFGL-NGS-107806	29.75599	9118293	
18	BTA-44443-no-rs	29.83907	9144268	
18	ARS-BFGL-NGS-101113	29.92993	9172680	
18	Hapmap35184-BES10_Contig401_1149	30.23088	9266777	
18	BTA-44438-no-rs	30.30671	9290487	
18	BTA-120677-no-rs	30.42786	9328369	
18	BTA-119338-no-rs	30.66709	9403168	
18	BTA-44488-no-rs	30.9364	9487375	
18	BTA-44490-no-rs	31.02691	9515675	
18	ARS-BFGL-NGS-1116	31.10151	9539002	
18	ARS-BFGL-NGS-113664	31.24021	9582369	
18	ARS-BFGL-NGS-111796	31.31835	9606800	
18	BTB-00699765	31.46406	9652359	
18	ARS-BFGL-NGS-40042	31.61608	9699892	
18	ARS-BFGL-NGS-23434	31.7164	9731259	
18	Hapmap58843-rs29022852	31.78365	9752287	
18	Hapmap59947-rs29015120	32.15151	9867308	
18	ARS-BFGL-NGS-27219	32.22858	9891406	
18	ARS-BFGL-NGS-39549	32.30422	9915057	
18	ARS-BFGL-NGS-85875	32.41262	9948949	
18	ARS-BFGL-NGS-29564	32.52808	9978547	
18	ARS-BFGL-NGS-115466	32.62264	10002426	

18	ARS-BFGL-NGS-43282	32.77712	10041432	
18	ARS-BFGL-NGS-3671	32.91344	10075856	
18	Hapmap39226-BTA-42295	33.07777	10117349	
18	ARS-BFGL-NGS-27130	33.44843	10210942	
18	ARS-BFGL-NGS-64834	33.72366	10289114	
18	Hapmap53277-rs29025667	33.81423	10316510	
18	ARS-BFGL-NGS-103449	33.93084	10351779	
18	ARS-BFGL-NGS-14442	34.39115	10491005	
18	ARS-BFGL-NGS-4535	34.49763	10523212	
18	ARS-BFGL-NGS-41026	34.60644	10556123	
18	ARS-BFGL-NGS-2048	34.78461	10610011	
18	ARS-BFGL-NGS-53926	34.89095	10642175	
18	ARS-BFGL-NGS-311	34.96613	10664913	
18	ARS-BFGL-NGS-109912	35.24402	10748965	
18	ARS-BFGL-NGS-3853	35.35773	10783360	
18	Hapmap30624-BTA-42324	35.43204	10805833	
18	ARS-BFGL-NGS-91287	35.50522	10827967	
18	Hapmap47288-BTA-42323	35.58652	10852558	
18	Hapmap48755-BTA-42320	35.71228	10890595	
18	ARS-BFGL-NGS-77590	35.84832	10931741	
18	Hapmap40333-BTA-10479	36.0557	10994466	
18	Hapmap36626-SCAFFOLD265042_14918	36.36271	11087325	
18	ARS-BFGL-NGS-95752	36.47452	11121144	
18	ARS-BFGL-NGS-96842	36.56355	11148073	
18	ARS-BFGL-NGS-59028	36.64053	11171356	
18	ARS-BFGL-NGS-69002	36.73603	11200241	
18	ARS-BFGL-NGS-56801	36.88531	11245392	
18	ARS-BFGL-NGS-86593	37.32159	11377350	
18	ARS-BFGL-NGS-30874	37.44954	11416050	
18	ARS-BFGL-NGS-32712	37.83155	11537285	
18	ARS-BFGL-NGS-78423	37.8878	11620017	
18	ARS-BFGL-NGS-101538	37.9001	11652352	
18	ARS-BFGL-NGS-62316	37.90892	11675551	
18	ARS-BFGL-NGS-36233	37.92752	11724466	
18	ARS-BFGL-NGS-10744	37.93671	11748656	
18	Hapmap47011-BTA-44425	37.96146	11813752	
18	ARS-BFGL-NGS-14524	37.97003	11836226	
18	ARS-BFGL-NGS-109473	38.07337	11886274	
18	ARS-BFGL-NGS-55307	38.20172	11948430	
18	ARS-BFGL-BAC-33114	38.29167	11991992	
18	ARS-BFGL-NGS-22066	38.40182	12045338	
18	ARS-BFGL-NGS-111013	38.51886	12102021	
18	ARS-BFGL-NGS-13427	38.86266	12268519	
18	ARS-BFGL-NGS-113327	38.91782	12295233	
18	ARS-BFGL-NGS-57897	38.96198	12316620	
18	ARS-BFGL-NGS-54734	39.04167	12355213	
18	ARS-BFGL-NGS-112870	39.08662	12376984	
18	ARS-BFGL-BAC-33119	39.13379	12399824	
18	ARS-BFGL-NGS-107789	39.24887	12455560	
18	ARS-BFGL-NGS-116678	39.32344	12491673	
18	ARS-BFGL-NGS-117469	39.40004	12528768	
18	Hapmap47624-BTA-44484	39.54202	12620198	
18	ARS-BFGL-NGS-103838	39.57839	12675262	
18	ARS-BFGL-NGS-42866	39.60992	12722992	
18	ARS-BFGL-NGS-118490	39.63678	12763652	
18	ARS-BFGL-NGS-64457	39.65051	12784439	
18	ARS-BFGL-NGS-110287	39.73	12947633	
18	Hapmap48757-BTA-42449	39.73	12988265	
18	ARS-BFGL-NGS-107817	39.73	13061132	

18	Hapmap58715-rs29021176	39.73	13109858
18	ARS-BFGL-NGS-115234	39.73	13136171
18	ARS-BFGL-NGS-7750	39.74208	13197861
18	ARS-BFGL-NGS-36231	39.77073	13238432
18	ARS-BFGL-NGS-19825	39.79786	13276830
18	Hapmap48331-BTA-42464	39.81811	13305495
18	UA-IFASA-8043	39.84726	13346768
18	ARS-BFGL-NGS-36246	39.88268	13396915
18	ARS-BFGL-NGS-114438	39.92372	13455012
18	ARS-BFGL-NGS-6195	39.94588	13486389
18	ARS-BFGL-NGS-101491	40.19542	13839646
18	Hapmap47004-BTA-42343	40.20831	13857900
18	ARS-BFGL-NGS-93701	40.2393	13901770
18	ARS-BFGL-NGS-23632	40.2904	13974114
18	ARS-BFGL-NGS-17281	40.31494	14008845
18	ARS-BFGL-NGS-28825	40.35031	14058919
18	ARS-BFGL-NGS-118298	40.36571	14080722
18	ARS-BFGL-NGS-4996	40.39002	14115136
18	ARS-BFGL-NGS-39953	40.41208	14146373
18	ARS-BFGL-NGS-103634	40.43919	14184741
18	ARS-BFGL-NGS-31386	40.45606	14208633
18	ARS-BFGL-NGS-107284	40.52241	14302556
18	ARS-BFGL-NGS-72034	40.75144	14626788
18	ARS-BFGL-NGS-5931	41.00725	14988936
18	BTA-42522-no-rs	41.04321	15039844
18	BTA-121118-no-rs	41.06431	15069718
18	ARS-BFGL-NGS-114211	41.0853	15099438
18	Hapmap42446-BTA-118372	41.15614	15199711
18	UA-IFASA-6050	41.17467	15225943
18	ARS-BFGL-NGS-118667	41.20295	15265978
18	ARS-BFGL-NGS-10007	41.35629	15483066
18	ARS-BFGL-NGS-54662	41.3782	15514075
18	Hapmap42939-BTA-42498	41.43505	15594562
18	ARS-BFGL-BAC-33134	41.46342	15634733
18	Hapmap55003-rs29021758	41.60423	15834073
18	ARS-BFGL-BAC-33135	41.63892	15883183
18	ARS-BFGL-NGS-38398	41.67319	15931700
18	BTB-01315362	41.70521	15977024
18	ARS-BFGL-NGS-53095	41.74179	16028803
18	ARS-BFGL-NGS-19011	41.90599	16261262
18	Hapmap51593-BTA-42524	41.97271	16355716
18	BTA-42525-no-rs	41.98962	16379647
18	Hapmap49167-BTA-42531	42.00556	16402220
18	ARS-BFGL-NGS-117671	42.03154	16438995
18	ARS-BFGL-NGS-28958	42.06656	16488570
18	ARS-BFGL-NGS-23457	42.08587	16515915
18	ARS-BFGL-NGS-41174	42.14168	16594926
18	BTB-00703990	42.18381	16654560
18	BTA-97570-no-rs	42.19571	16671415
18	Hapmap24479-BTA-132095	42.21164	16693956
18	ARS-BFGL-NGS-80528	42.22268	16709582
18	ARS-BFGL-NGS-24006	42.24164	16736436
18	BTA-42571-no-rs	42.29118	16806560
18	ARS-BFGL-NGS-64629	42.31244	16836655
18	ARS-BFGL-NGS-55981	42.33536	16869103
18	ARS-BFGL-NGS-34088	42.35742	16900337
18	ARS-BFGL-NGS-84061	42.40587	16968932
18	Hapmap39919-BTA-42561	42.42169	16991322
18	ARS-BFGL-NGS-116414	42.43683	17012755

18	BTB-00703354	42.46203	17048434	
18	ARS-BFGL-NGS-94288	42.49723	17098259	
18	ARS-BFGL-NGS-109919	42.54038	17159355	
18	ARS-BFGL-NGS-81231	42.59368	17234805	
18	ARS-BFGL-NGS-99590	42.63649	17295414	
18	ARS-BFGL-NGS-89344	42.65361	17319650	
18	ARS-BFGL-NGS-107392	42.67048	17343527	
18	Hapmap36367-SCAFFOLD205017_9206	42.69638		17380202
18	Hapmap59342-rs29017390	42.72139	17419465	
18	ARS-BFGL-NGS-39730	42.72981	17454837	
18	ARS-BFGL-NGS-2638	42.73988	17497121	
18	Hapmap39998-BTA-42612	42.75032	17540948	
18	BTB-00704089	42.7596	17579917	
18	ARS-BFGL-BAC-33749	42.77864	17659879	
18	ARS-BFGL-NGS-60919	42.81833	17826528	
18	ARS-BFGL-NGS-119270	42.85679	17988032	
18	ARS-BFGL-NGS-115764	42.87702	18072990	
18	ARS-BFGL-NGS-8204	42.88187	18093362	
18	ARS-BFGL-NGS-74170	42.88677	18113920	
18	ARS-BFGL-NGS-82445	42.89028	18128677	
18	ARS-BFGL-NGS-321	42.89434	18145718	
18	ARS-BFGL-NGS-114779	42.90537	18192027	
18	ARS-BFGL-NGS-67312	42.91144	18217505	
18	ARS-BFGL-NGS-95291	42.91655	18238978	
18	ARS-BFGL-NGS-112592	42.92345	18267940	
18	ARS-BFGL-NGS-99436	42.92977	18294473	
18	ARS-BFGL-NGS-53913	42.94978	18344555	
18	ARS-BFGL-NGS-69768	42.98243	18368327	
18	ARS-BFGL-NGS-115886	43.0303	18403181	
18	ARS-BFGL-NGS-84142	43.09426	18449746	
18	ARS-BFGL-NGS-6573	43.17621	18509406	
18	ARS-BFGL-NGS-56541	43.29964	18599268	
18	Hapmap47005-BTA-42576	43.50546	18749105	
18	ARS-BFGL-NGS-21074	43.53772	18772590	
18	Hapmap51448-BTA-42579	43.60678	18822874	
18	ARS-BFGL-NGS-2590	43.69839	18889566	
18	ARS-BFGL-NGS-27549	43.73869	18918903	
18	ARS-BFGL-NGS-106191	43.84717	18997878	
18	Hapmap54321-rs29009603	43.90141	19037363	
18	ARS-BFGL-NGS-41137	43.95198	19074184	
18	ARS-BFGL-NGS-11252	44.00162	19110324	
18	ARS-BFGL-NGS-30634	44.03683	19135958	
18	ARS-BFGL-NGS-111479	44.08883	19173818	
18	ARS-BFGL-NGS-106722	44.11933	19196022	
18	ARS-BFGL-NGS-39866	44.15888	19224815	
18	ARS-BFGL-BAC-35698	44.21387	19264846	
18	ARS-BFGL-NGS-23186	44.27946	19312601	
18	ARS-BFGL-NGS-98964	44.41669	19412506	
18	ARS-BFGL-NGS-106845	44.52672	19492608	
18	Hapmap40350-BTA-42599	44.56871	19523182	
18	ARS-BFGL-NGS-98352	44.61034	19553485	
18	Hapmap48759-BTA-42602	44.6778	19602600	
18	BTA-42606-no-rs	44.80925	19698301	
18	ARS-BFGL-NGS-78436	45.07395	19891006	
18	ARS-BFGL-NGS-12314	45.11198	19918697	
18	Hapmap44501-BTA-94662	45.14098	19939808	
18	BTA-94677-no-rs	45.19584	19979748	
18	ARS-BFGL-NGS-20054	45.43102	20150966	
18	Hapmap25328-BTA-159534	45.49465	20197289	



18	ARS-BFGL-NGS-14417	45.56516	20248620	
18	BTA-120109-no-rs	45.91766	20429741	
18	Hapmap48667-BTA-16502	46.104	20531300	
18	Hapmap57194-rs29021671	46.48042	20736454	
18	BTA-42769-no-rs	46.53344	20765346	
18	ARS-BFGL-NGS-107400	46.76231	20890089	
18	BTA-42767-no-rs	46.86822	20947807	
18	BTA-42764-no-rs	47.04901	21046339	
18	BTA-42763-no-rs	47.10602	21077410	
18	ARS-BFGL-NGS-67638	47.3586	21215067	
18	ARS-BFGL-BAC-33579	47.42301	21250173	
18	BTB-00705849	47.53369	21310497	
18	Hapmap46385-BTA-90833	47.82895	21471412	
18	Hapmap35049-BES5_Contig425_820		47.89905	21509622
18	Hapmap42359-BTA-90829	47.94451	21534397	
18	ARS-BFGL-NGS-106934	47.99626	21562601	
18	Hapmap49904-BTA-19486	48.03723	21584927	
18	ARS-BFGL-BAC-36239	48.07569	21605891	
18	ARS-BFGL-NGS-43902	48.11862	21634314	
18	BTB-01627667	48.15546	21675881	
18	ARS-BFGL-BAC-36240	48.18985	21714679	
18	Hapmap51594-BTA-42721	48.24472	21776593	
18	Hapmap42547-BTA-42724	48.32667	21869056	
18	BTA-42733-no-rs	48.34982	21895177	
18	ARS-BFGL-NGS-34611	48.4025	21954625	
18	Hapmap36010-SCAFFOLD50294_19187		48.437	21993542
18	ARS-BFGL-NGS-41145	48.49956	22064133	
18	Hapmap39651-BTA-42671	48.55274	22124137	
18	Hapmap49170-BTA-42666	48.62132	22201521	
18	ARS-BFGL-NGS-28677	48.67016	22256619	
18	Hapmap51449-BTA-42665	48.74146	22300133	
18	Hapmap49169-BTA-42663	48.8169	22339904	
18	ARS-BFGL-NGS-17185	48.89267	22379853	
18	BTA-42645-no-rs	49.14011	22510315	
18	ARS-BFGL-NGS-13888	49.20447	22544250	
18	ARS-BFGL-NGS-23701	49.30845	22599071	
18	ARS-BFGL-NGS-19178	49.33027	22610574	
18	ARS-BFGL-BAC-36256	49.47567	22687235	
18	Hapmap52930-rs29019965	49.55459	22728849	
18	ARS-BFGL-NGS-24172	49.61454	22760455	
18	UA-IFASA-3993	49.80013	22858309	
18	ARS-BFGL-NGS-25646	49.8586	22889138	
18	BTA-31073-no-rs	49.98643	22956535	
18	Hapmap51823-BTA-31074	50.11781	23025804	
18	BTA-04489-rs29014848	50.15754	23046748	
18	ARS-BFGL-NGS-1042	50.21859	23078940	
18	Hapmap28064-BTA-31076	50.30391	23123924	
18	ARS-BFGL-NGS-114478	50.37156	23159589	
18	Hapmap36168-SCAFFOLD82588_4972		50.44128	23196347
18	ARS-BFGL-NGS-112550	50.49436	23224334	
18	ARS-BFGL-NGS-2512	50.54882	23253048	
18	Hapmap46816-BTA-42887	50.69611	23330707	
18	ARS-BFGL-NGS-119681	50.75738	23363011	
18	ARS-USMARC-Parent-DQ916059-rs29009907		50.90237	23426214
18	ARS-BFGL-NGS-113719	50.93089	23436682	
18	ARS-BFGL-NGS-13105	50.96041	23468316	
18	ARS-BFGL-NGS-91355	50.97936	23488631	
18	Hapmap38205-BTA-17257	51.04532	23559322	
18	BTA-42912-no-rs	51.10071	23618684	

18	ARS-BFGL-NGS-99085	51.11007	23628711	
18	BTA-42909-no-rs	51.14133	23662224	
18	ARS-BFGL-NGS-105793	51.166	23688662	
18	ARS-BFGL-NGS-2491	51.20912	23734876	
18	Hapmap55331-rs29012854	51.23519	23762816	
18	ARS-BFGL-NGS-3767	51.2631	23792727	
18	UA-IFASA-4518	51.3085	23841383	
18	ARS-BFGL-NGS-15436	51.34327	23878651	
18	ARS-BFGL-NGS-38367	51.37857	23916486	
18	ARS-BFGL-NGS-112231	51.4097	23949849	
18	ARS-BFGL-NGS-2712	51.42515	23966401	
18	ARS-BFGL-NGS-55426	51.48519	24030749	
18	ARS-BFGL-NGS-79157	51.54936	24099523	
18	ARS-BFGL-NGS-65767	51.6122	24166872	
18	ARS-BFGL-NGS-119779	51.64713	24204307	
18	BTA-42865-no-rs	51.67467	24233826	
18	ARS-BFGL-NGS-94891	51.72419	24286893	
18	ARS-BFGL-NGS-71314	51.76289	24328377	
18	ARS-BFGL-NGS-64156	51.79238	24359982	
18	ARS-BFGL-NGS-32550	51.89937	24474645	
18	ARS-BFGL-NGS-101666	51.91988	24496630	
18	ARS-BFGL-NGS-54947	52.01395	24597453	
18	ARS-BFGL-NGS-14017	52.03962	24624964	
18	ARS-BFGL-NGS-39394	52.14552	24738457	
18	Hapmap59532-rs29022382	52.18652	24782395	
18	Hapmap58965-rs29015249	52.26105	24862274	
18	Hapmap58351-rs29010900	52.29414	24897738	
18	Hapmap52077-ss46526963	52.37187	24980984	
18	ARS-BFGL-NGS-24004	52.41217	25022927	
18	ARS-BFGL-NGS-107737	52.43499	25046677	
18	ARS-BFGL-NGS-22813	52.47673	25090118	
18	ARS-BFGL-NGS-43341	52.5205	25135667	
18	ARS-BFGL-NGS-113937	52.57434	25191690	
18	ARS-BFGL-NGS-101742	52.60962	25228413	
18	ARS-BFGL-NGS-8630	52.7224	25345775	
18	ARS-BFGL-NGS-110669	52.84309	25471374	
18	ARS-BFGL-NGS-32372	52.90283	25533545	
18	ARS-BFGL-NGS-34877	52.95436	25587174	
18	ARS-BFGL-NGS-12625	52.99025	25624516	
18	ARS-BFGL-NGS-11936	53.01791	25653308	
18	ARS-BFGL-NGS-27826	53.04712	25683701	
18	ARS-BFGL-NGS-63156	53.07227	25709879	
18	ARS-BFGL-BAC-2323	53.10471	25743634	
18	ARS-BFGL-NGS-99088	53.12644	25766247	
18	ARS-BFGL-NGS-35818	53.19026	25832665	
18	ARS-BFGL-NGS-44657	53.26149	25906797	
18	ARS-BFGL-NGS-109756	53.32103	25981472	
18	ARS-BFGL-NGS-66258	53.35022	26045554	
18	Hapmap34893-BES8_Contig374_1433		53.37913	26108982
18	ARS-BFGL-NGS-108036	53.38871	26130014	
18	ARS-BFGL-NGS-72521	53.4356	26232914	
18	ARS-BFGL-NGS-103413	53.45797	26282010	
18	ARS-BFGL-NGS-117107	53.47339	26315856	
18	ARS-BFGL-NGS-6998	53.48316	26337295	
18	Hapmap39748-BTA-42827	53.49289	26358647	
18	ARS-BFGL-NGS-20779	53.50305	26380950	
18	ARS-BFGL-NGS-91084	53.51	26464405	
18	ARS-BFGL-NGS-118855	53.51	26527686	
18	ARS-BFGL-NGS-106132	53.52443	26562050	

18	ARS-BFGL-NGS-28154	53.55194	26586194	
18	ARS-BFGL-NGS-80672	53.60286	26630875	
18	Hapmap25035-BTA-132170	53.74523	26755820	
18	Hapmap51228-BTA-42851	53.78946	26794634	
18	ARS-BFGL-NGS-118340	53.84625	26844474	
18	Hapmap39333-BTA-42858	53.87619	26870746	
18	Hapmap55097-rs29010952	53.98933	26970041	
18	UA-IFASA-7519	54.02088	26997723	
18	ARS-BFGL-NGS-28297	54.08249	27051794	
18	ARS-BFGL-NGS-12130	54.11874	27083604	
18	BTA-19724-no-rs	54.16206	27121621	
18	Hapmap52207-rs29021316	54.18764	27144071	
18	ARS-BFGL-BAC-34194	54.29218	27235807	
18	Hapmap23161-BTA-162019	54.34444	27281676	
18	ARS-BFGL-NGS-29803	54.44971	27374063	
18	Hapmap50199-BTA-106275	54.51405	27449999	
18	Hapmap33051-BTA-154275	54.54921	27529633	
18	ARS-BFGL-BAC-34193	54.56074	27555747	
18	ARS-BFGL-NGS-5283	54.57068	27578257	
18	BTA-106270-no-rs	54.60058	27645973	
18	ARS-BFGL-NGS-36647	54.7418	27965784	
18	ARS-BFGL-NGS-101461	54.77052	28030835	
18	ARS-BFGL-NGS-110709	54.81924	28139889	
18	ARS-BFGL-NGS-59857	54.85402	28213777	
18	ARS-BFGL-NGS-73644	54.88816	28286346	
18	ARS-BFGL-NGS-108426	54.90626	28324801	
18	BTA-29270-no-rs	54.95352	28425238	
18	ARS-BFGL-NGS-19431	54.98292	28487717	
18	ARS-BFGL-NGS-99463	55.02778	28583048	
18	ARS-BFGL-NGS-23101	55.03975	28608495	
18	Hapmap50142-BTA-88392	55.06883	28670292	
18	BTA-88403-no-rs	55.08767	28710334	
18	ARS-BFGL-BAC-33583	55.09924	28734924	
18	BTA-61073-no-rs	55.15031	28843447	
18	BTA-113658-no-rs	55.22359	28999193	
18	Hapmap49026-BTA-113661	55.26089	29078437	
18	ARS-BFGL-NGS-45070	55.27419	29106701	
18	ARS-BFGL-NGS-117693	55.30944	29181633	
18	Hapmap38811-BTA-113622	55.3315	29228499	
18	Hapmap45469-BTA-113627	55.36077	29290699	
18	Hapmap51157-BTA-116869	55.39439	29362150	
18	BTA-113636-no-rs	55.40682	29388562	
18	ARS-BFGL-NGS-106535	55.41923	29414941	
18	Hapmap55151-rs29025839	55.46931	29455032	
18	ARS-BFGL-NGS-16967	55.63352	29583082	
18	Hapmap48531-BTA-95258	55.66906	29610795	
18	Hapmap53786-rs29014011	55.7197	29650288	
18	Hapmap36782-SCAFFOLD167149_2583	55.75038	29679174	
18	BTA-95254-no-rs	55.78509	29722853	
18	BTA-95249-no-rs	55.8426	29795214	
18	Hapmap35555-SCAFFOLD20017_21254	55.88	29882606	
18	ARS-BFGL-NGS-90159	55.88	30254589	
18	Hapmap31088-BTA-130721	55.88	30313853	
18	ARS-BFGL-NGS-82506	56.24911	30608830	
18	ARS-BFGL-NGS-6151	56.43943	30702967	
18	ARS-BFGL-NGS-37442	56.66121	30812669	
18	ARS-BFGL-NGS-60986	56.79367	30878192	
18	Hapmap49989-BTA-42921	56.82	30929829	
18	Hapmap42153-BTA-25364	56.82	31226355	

18	BTA-121123-no-rs	56.82	31280444	
18	Hapmap58507-rs29024090	56.82686		31396856
18	ARS-BFGL-NGS-29922	56.97305		31587185
18	Hapmap44357-BTA-24055	57.07974		31726094
18	Hapmap42880-BTA-24056	57.15067		31818445
18	ARS-BFGL-NGS-88357	57.2327		31925240
18	BTA-42945-no-rs	57.2662		31968864
18	BTB-01443335	57.30349		32017410
18	Hapmap43849-BTA-42947	57.34933		32077101
18	ARS-BFGL-BAC-36257	57.39179		32132374
18	Hapmap26655-BTA-132218	57.47057		32234943
18	Hapmap59101-rs29024885	57.5		32300425
18	UA-IFASA-4711	57.53133		32335701
18	BTB-00707941	57.66045		32446149
18	BTA-42979-no-rs	57.74424		32517821
18	BTB-00707771	57.77		32565376
18	Hapmap40535-BTA-42974	57.77		32624899
18	ARS-BFGL-NGS-82274	57.77		32756408
18	Hapmap50689-BTA-42970	57.77		32788809
18	Hapmap39488-BTA-42969	57.77		32828509
18	Hapmap41865-BTA-42966	57.77		32887225
18	BTA-24218-no-rs	57.77		32925593
18	ARS-BFGL-NGS-66936	57.77871		33017638
18	ARS-BFGL-NGS-23057	57.92555		33079046
18	Hapmap60481-rs29012614	57.99037		33106153
18	Hapmap55289-rs29026039	58.13677		33167374
18	Hapmap51229-BTA-42956	58.35911		33262180
18	ARS-BFGL-NGS-69746	58.46116		33305793
18	ARS-BFGL-NGS-15850	58.61185		33370191
18	Hapmap50690-BTA-43010	58.79297		33447591
18	ARS-BFGL-NGS-18330	58.94255		33511518
18	ARS-BFGL-NGS-31705	59.05947		33566059
18	ARS-BFGL-NGS-14182	59.0994		33602408
18	ARS-BFGL-NGS-3730	59.14094		33640224
18	ARS-BFGL-NGS-11343	59.16771		33664592
18	ARS-BFGL-NGS-115751	59.22672		33718299
18	ARS-BFGL-NGS-48194	59.26089		33749406
18	ARS-BFGL-NGS-118084	59.29387		33779427
18	ARS-BFGL-NGS-62857	59.32145		33804536
18	Hapmap23714-BTA-43016	59.33241		33814509
18	ARS-BFGL-NGS-22634	59.37806		33856062
18	Hapmap38675-BTA-43020	59.41651		33891066
18	ARS-BFGL-NGS-63965	59.45247		33923801
18	ARS-BFGL-NGS-20030	59.47734		33946444
18	ARS-BFGL-NGS-107749	59.52134		33986486
18	Hapmap47615-BTA-43035	59.56073		34022352
18	ARS-BFGL-NGS-76555	59.59021		34049189
18	BTA-43023-no-rs	59.6321		34087311
18	ARS-BFGL-NGS-119782	59.67565		34126956
18	ARS-BFGL-NGS-32691	59.71021		34159637
18	ARS-BFGL-NGS-43220	59.71764		34208415
18	ARS-BFGL-BAC-36869	59.77055		34321044
18	ARS-BFGL-NGS-14507	59.80207		34345429
18	ARS-BFGL-NGS-107813	59.84646		34379769
18	ARS-BFGL-NGS-117369	59.90852		34427771
18	ARS-BFGL-BAC-2344	59.92232		34456603
18	ARS-BFGL-NGS-4666	59.92799		34505448
18	Hapmap51729-BTA-42955	59.94218		34627557
18	BTB-00708261	59.94668		34666281

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18	ARS-BFGL-NGS-12773	59.97137	34878765	
18	ARS-BFGL-NGS-4440	59.9786	34940982	
18	ARS-BFGL-NGS-112943	59.98188	34969223	
18	ARS-BFGL-NGS-52708	59.9846	34992628	
18	UA-IFASA-5348	59.98869	35027876	
18	BTA-42999-no-rs	59.99533	35085008	
18	ARS-BFGL-NGS-34848	60.00063	35130634	
18	ARS-BFGL-NGS-29060	60.00445	35163513	
18	BTA-42491-no-rs	60.01084	35218494	
18	BTB-00701972	60.01961	35294024	
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18	ARS-BFGL-NGS-28733	60.03062	35388791	
18	ARS-BFGL-NGS-61670	60.03409	35418613	
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18	ARS-BFGL-NGS-98832	60.04695	35529313	
18	Hapmap34397-BES7_Contig335_1167	60.05326	35583594	
18	ARS-BFGL-NGS-43737	60.0596	35638202	
18	ARS-BFGL-NGS-55550	60.21154	35761850	
18	Hapmap47947-BTA-42483	60.25161	35793633	
18	BTB-00701726	60.29734	35829905	
18	Hapmap48332-BTA-42482	60.35464	35875359	
18	BTB-00701663	60.41251	35921254	
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18	ARS-BFGL-NGS-116891	60.67337	36146356	
18	ARS-BFGL-NGS-111112	60.6884	36178690	
18	Hapmap48758-BTA-42474	60.70158	36207061	
18	ARS-BFGL-NGS-119119	60.7485	36308037	
18	ARS-BFGL-NGS-102865	60.95201	36594231	
18	BTB-01919503	61.13649	36785457	
18	BTB-00710724	61.24271	36895563	
18	Hapmap59773-ss46526196	61.28476	36939147	
18	Hapmap51998-BTA-43053	61.32953	36985552	
18	Hapmap40351-BTA-43058	61.35905	37016151	
18	BTA-43059-no-rs	61.37843	37054197	
18	ARS-BFGL-NGS-4131	61.3882	37085111	
18	ARS-BFGL-NGS-67111	61.40409	37135403	
18	ARS-BFGL-NGS-91477	61.41404	37166881	
18	ARS-BFGL-NGS-114937	61.42102	37188964	
18	BTB-02003573	61.43092	37220279	
18	BTB-00710926	61.4549	37296167	
18	Hapmap49605-BTA-43064	61.46507	37328355	
18	ARS-BFGL-NGS-24323	61.47965	37374521	
18	ARS-BFGL-NGS-54131	61.4941	37420230	
18	Hapmap35356-BES7_Contig368_825	61.50703	37461150	
18	Hapmap58263-rs29024924	61.52421	37506285	
18	ARS-BFGL-BAC-31822	61.58215	37562472	
18	ARS-BFGL-NGS-33204	61.61726	37596521	
18	ARS-BFGL-BAC-2345	61.67591	37653387	
18	ARS-BFGL-NGS-29629	61.71619	37692447	
18	ARS-BFGL-BAC-31823	61.77083	37745427	
18	BTA-43073-no-rs	61.81039	37783787	
18	ARS-BFGL-NGS-110268	61.85471	37826773	
18	BTB-00711650	61.89851	37869243	
18	ARS-BFGL-NGS-31533	61.95889	37927789	
18	Hapmap49173-BTA-43091	61.99039	37958338	
18	Hapmap32998-BTA-132256	62.01045	37977789	
18	UA-IFASA-4191	62.06188	38027659	

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18	BTA-101546-no-rs	62.36528	38321858	
18	BTA-101550-no-rs	62.39	38357061	
18	Hapmap48151-BTA-101548	62.39	38394166	
18	ARS-BFGL-NGS-12047	62.39	38471116	
18	Hapmap40105-BTA-116218	62.39	38543236	
18	Hapmap43850-BTA-43155	62.39	38621084	
18	BTA-43158-no-rs	62.39	38645105	
18	BTA-43160-no-rs	62.39	38657958	
18	BTA-43161-no-rs	62.39	38688096	
18	BTB-00713661	62.41493	38756763	
18	Hapmap58822-rs29018153	62.44796	38815705	
18	ARS-BFGL-BAC-6188	62.46757	38850678	
18	BTA-117976-no-rs	62.48585	38883296	
18	BTA-117977-no-rs	62.51177	38929545	
18	ARS-BFGL-NGS-96821	62.6234	39128722	
18	ARS-BFGL-NGS-108025	62.66587	39204491	
18	Hapmap58097-rs29011337	62.68995	39247450	
18	ARS-BFGL-NGS-114947	62.70167	39268365	
18	BTB-01915527	62.8205	39480387	
18	Hapmap51166-BTA-121131	62.87454	39521360	
18	ARS-BFGL-NGS-23924	63.03355	39549809	
18	BTA-90174-no-rs	63.18272	39576494	
18	BTA-18121-no-rs	63.20313	39603232	
18	Hapmap60613-ss46526529	63.2059	39624096	
18	ARS-BFGL-NGS-117852	63.21974	39728567	
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18	ARS-BFGL-NGS-56179	63.22839	39793889	
18	ARS-BFGL-NGS-101288	63.23259	39825584	
18	ARS-BFGL-NGS-113001	63.23726	39860794	
18	Hapmap34022-BES9_Contig440_780		63.24289	39903328
18	BTB-00712901	63.25059	39961400	
18	ARS-BFGL-NGS-101103	63.25602	40002413	
18	BTB-00712894	63.26124	40041803	
18	ARS-BFGL-NGS-93994	63.26597	40077524	
18	BTB-00712788	63.2712	40116972	
18	ARS-BFGL-NGS-72885	63.27667	40158239	
18	ARS-BFGL-NGS-55014	63.28561	40225738	
18	ARS-BFGL-NGS-60750	63.28835	40246397	
18	ARS-BFGL-NGS-62526	63.2939	40288309	
18	ARS-BFGL-NGS-101743	63.30298	40356812	
18	BTB-00710668	63.31	40426150	
18	BTB-00710625	63.33475	40464954	
18	ARS-BFGL-NGS-79228	63.382	40502223	
18	ARS-BFGL-NGS-17343	63.4182	40530775	
18	ARS-BFGL-NGS-37756	63.62109	40690801	
18	BTA-43145-no-rs	63.65057	40714061	
18	ARS-BFGL-BAC-32435	63.68164	40738568	
18	ARS-BFGL-NGS-110869	63.77989	40816057	
18	ARS-BFGL-NGS-88483	63.81446	40843328	
18	ARS-BFGL-NGS-107479	63.85019	40871506	
18	ARS-BFGL-NGS-115366	63.89298	40905255	
18	ARS-BFGL-NGS-84358	63.96329	40960722	
18	ARS-BFGL-NGS-19758	64.0063	40994643	
18	Hapmap58839-rs29018797	64.11685	41081838	
18	ARS-BFGL-NGS-63395	64.16048	41116256	
18	ARS-BFGL-NGS-27376	64.24728	41184713	

18	ARS-BFGL-NGS-34617	64.28887	41217520	
18	ARS-BFGL-NGS-119441	64.33672	41255257	
18	ARS-BFGL-NGS-37079	64.37966	41289132	
18	ARS-BFGL-NGS-116652	64.4229	41323241	
18	Hapmap35516-SCAFFOLD70087_15055	64.78427		41533147
18	ARS-BFGL-NGS-26944	64.89184	41595185	
18	Hapmap42198-BTA-39980	64.93028	41617350	
18	ARS-BFGL-NGS-35801	64.98727	41650216	
18	ARS-BFGL-NGS-63087	65.3527	41860965	
18	BTA-43188-no-rs	65.40376	41890414	
18	BTA-43186-no-rs	65.47968	41934200	
18	ARS-BFGL-NGS-119421	65.59941	42003247	
18	Hapmap43579-BTA-43185	65.65215	42033662	
18	Hapmap60430-rs29016898	65.74	42107661	
18	ARS-BFGL-NGS-117818	65.74741	42187823	
18	ARS-BFGL-NGS-26718	65.79838	42223365	
18	ARS-BFGL-NGS-112357	65.84347	42254799	
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18	BTA-42967-no-rs	66.06266	42407639	
18	Hapmap54118-rs29014623	66.10258	42435476	
18	BTA-23408-no-rs	66.14056	42461953	
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18	BTA-43239-no-rs	66.36556	42618843	
18	ARS-BFGL-NGS-28822	66.42357	42659289	
18	ARS-BFGL-NGS-29914	66.49121	42706451	
18	ARS-BFGL-NGS-112414	66.554	42750230	
18	Hapmap40976-BTA-43213	66.63312	42805400	
18	ARS-BFGL-NGS-37980	66.66328	42826428	
18	Hapmap59019-rs29021918	66.7066	42856641	
18	ARS-BFGL-NGS-114839	66.78788	42913313	
18	ARS-BFGL-NGS-36501	66.82823	42941446	
18	ARS-BFGL-NGS-75318	66.86945	42970188	
18	BTB-00715505	67.0443	43098071	
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18	Hapmap52325-rs29020544	67.32827	43327273	
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18	ARS-BFGL-NGS-21227	67.41963	43401011	
18	ARS-BFGL-NGS-91567	67.50543	43470260	
18	BTA-43256-no-rs	67.54826	43502109	
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18	ARS-BFGL-NGS-5074	67.72976	43588701	
18	ARS-BFGL-NGS-41745	67.78438	43614762	
18	Hapmap38317-BTA-43262	67.89266	43666425	
18	ARS-BFGL-NGS-6354	67.94498	43691383	
18	ARS-BFGL-NGS-57914	68.01962	43726997	
18	ARS-BFGL-NGS-112457	68.10213	43766368	
18	ARS-BFGL-NGS-105692	68.3662	43892356	
18	ARS-BFGL-NGS-21339	68.43279	43924130	
18	BTA-43268-no-rs	68.47612	43944803	
18	ARS-BFGL-NGS-104171	68.52057	43966013	
18	UA-IFASA-8905	68.63175	44019061	
18	ARS-BFGL-NGS-9708	68.72739	44064689	
18	ARS-BFGL-NGS-113354	68.8056	44102900	
18	ARS-BFGL-NGS-17039	68.85736	44135838	
18	ARS-BFGL-NGS-55212	68.90983	44169233	
18	ARS-BFGL-NGS-30259	68.92	44208859	
18	ARS-BFGL-NGS-19902	68.92	44238908	

18	ARS-BFGL-NGS-44774	68.92893	44302099		
18	ARS-BFGL-NGS-3258	69.09861	44361357		
18	ARS-BFGL-NGS-75672	69.18855	44392765		
18	ARS-BFGL-NGS-32699	69.28783	44427437		
18	Hapmap47949-BTA-43407	69.56636	44524702		
18	Hapmap55149-rs29025570	69.67336	44562069		
18	Hapmap40353-BTA-43430	69.85349	44652356		
18	Hapmap40732-BTA-43433	69.93924	44719288		
18	BTB-00718231	70.04469	44801596		
18	Hapmap30625-BTA-43445	70.09438	44840375		
18	ARS-BFGL-NGS-33502	70.17181	44900819		
18	BTB-00718606	70.35568	45044333		
18	ARS-BFGL-NGS-100497	70.40888	45085854		
18	Hapmap47455-BTA-97830	70.5481	45194522		
18	ARS-BFGL-NGS-102213	70.61781	45248931		
18	ARS-BFGL-NGS-110142	70.82708	45412266		
18	BTB-01588251	70.90726	45474850		
18	ARS-BFGL-NGS-115680	71.271	45758759		
18	ARS-BFGL-NGS-79618	71.41386	45870264		
18	ARS-BFGL-NGS-18897	71.55315	45978986		
18	ARS-BFGL-NGS-117589	71.5797	45999702		
18	ARS-BFGL-NGS-44321	71.62246	46033080		
18	ARS-BFGL-NGS-115785	71.66092	46063097		
18	Hapmap48338-BTA-43544	71.70551	46097906		
18	BTA-43543-no-rs	71.74006	46124864		
18	Hapmap40430-BTA-43542	71.77392	46151292		
18	ARS-BFGL-NGS-30493	71.82481	46191012		
18	BTA-43532-no-rs	71.87836	46232817		
18	BTA-43529-no-rs	71.91	46264425		
18	ARS-BFGL-NGS-93032	71.91	46288098		
18	ARS-BFGL-NGS-50100	71.95267	46341055		
18	ARS-BFGL-NGS-110865	72.00589	46373028		
18	Hapmap50691-BTA-43520	72.15986	46465518		
18	Hapmap52166-rs29025315	72.30428	46552279		
18	ARS-BFGL-NGS-114161	72.35742	46584203		
18	ARS-BFGL-NGS-4401	72.40259	46611338		
18	UA-IFASA-9215	72.45216	46641574		
18	ARS-USMARC-Parent-AY863214-rs17871744	72.45905	46647177		
18	ARS-BFGL-NGS-14927	72.49652	46677643		
18	ARS-BFGL-NGS-104362	72.52115	46697670		
18	ARS-BFGL-NGS-54266	72.59469	46757466		
18	ARS-BFGL-NGS-102172	72.67924	46826215		
18	UA-IFASA-2345	72.7403	46875864		
18	ARS-BFGL-NGS-92859	72.78926	46915673		
18	ARS-BFGL-NGS-16089	72.81432	46936044		
18	ARS-BFGL-NGS-29664	72.95983	47054361		
18	Hapmap50867-BTA-110561	73.00253	47089076		
18	Hapmap41539-BTA-43637	73.08327	47154726		
18	ARS-BFGL-NGS-11286	73.11471	47180292		
18	BTB-00722103	73.15489	47212964		
18	BTB-00722093	73.21217	47259533		
18	Hapmap43853-BTA-43626	73.25242	47292259		
18	ARS-BFGL-NGS-62218	73.4388	47443804		
18	ARS-BFGL-NGS-54821	73.586	47563494		
18	Hapmap43800-BTA-18099	73.66412	47627016		
18	ARS-BFGL-NGS-75725	73.75232	47698729		
18	BTA-107911-no-rs	73.77765	47719325		
18	Hapmap42792-BTA-107917	73.85383	47781264		
18	Hapmap55285-rs29025730	73.91836	47833734		



18	BTA-43699-no-rs	73.95335	47862193		
18	ARS-BFGL-NGS-73872	74.12909	47960779		
18	ARS-BFGL-NGS-119482	74.1754	47983685		
18	ARS-BFGL-NGS-115349	74.19997	47995842		
18	ARS-BFGL-BAC-35025	74.2853	48038041		
18	ARS-BFGL-NGS-115550	74.37588	48082842		
18	BTA-43691-no-rs	74.4278	48108521		
18	ARS-BFGL-NGS-42664	74.46956	48129174		
18	ARS-BFGL-BAC-35026	74.51348	48150900		
18	ARS-BFGL-NGS-33879	74.55625	48172057		
18	ARS-BFGL-NGS-103183	74.6486	48217729		
18	BTA-121138-no-rs	74.69651	48241428		
18	ARS-BFGL-NGS-39590	74.70432	48294173		
18	ARS-BFGL-NGS-110180	74.70717	48327929		
18	ARS-BFGL-NGS-59215	74.71349	48398652		
18	Hapmap60587-rs29022095	74.73861	48505668		
18	ARS-BFGL-NGS-18019	74.74622	48538054		
18	Hapmap35421-SCAFFOLD98325_1119	74.76473	48616951		
18	ARS-BFGL-NGS-29923	74.7889	48719962		
18	ARS-BFGL-NGS-119814	74.79532	48747276		
18	UA-IFASA-6796	74.8062	48793660		
18	ARS-USMARC-Parent-AY914316-rs17871403	74.81051	48812014		
18	ARS-BFGL-NGS-64415	74.81206	48818621		
18	ARS-BFGL-NGS-4307	74.83463	48914799		
18	ARS-BFGL-NGS-118846	74.86755	49032516		
18	Hapmap39652-BTA-43608	74.91267	49090018		
18	BTA-43602-no-rs	74.92903	49110869		
18	ARS-BFGL-NGS-4463	74.97329	49167271		
18	ARS-BFGL-NGS-113564	75.15301	49396303		
18	ARS-BFGL-NGS-90115	75.17562	49425130		
18	ARS-BFGL-NGS-103675	75.1925	49446631		
18	Hapmap47950-BTA-43792	75.3217	49611296		
18	ARS-BFGL-BAC-35461	75.35668	49655877		
18	Hapmap54289-ss46526948	75.38359	49690172		
18	ARS-BFGL-NGS-32320	75.41946	49735884		
18	ARS-BFGL-NGS-116476	75.4373	49758619		
18	ARS-BFGL-NGS-37708	75.57021	49928003		
18	ARS-BFGL-NGS-63460	75.60015	49966162		
18	ARS-BFGL-NGS-24233	75.69299	50118299		
18	ARS-BFGL-NGS-39994	75.7173	50160561		
18	ARS-BFGL-NGS-112003	75.759	50233023		
18	ARS-BFGL-NGS-19467	75.77557	50261823		
18	BTA-43728-no-rs	75.78744	50282458		
18	Hapmap49176-BTA-43744	75.84834	50388296		
18	ARS-BFGL-NGS-34276	75.89268	50465387		
18	Hapmap36462-SCAFFOLD15048_5152	75.95943	50581375		
18	ARS-BFGL-NGS-13393	75.97974	50616688		
18	ARS-BFGL-NGS-15707	76.00613	50662553		
18	BTA-23545-no-rs	76.01964	50686020		
18	ARS-BFGL-NGS-35499	76.04359	50727653		
18	ARS-BFGL-NGS-42247	76.05573	50748739		
18	Hapmap52049-ss46526423	76.08174	50793970		
18	ARS-BFGL-NGS-110552	76.09282	50813218		
18	ARS-BFGL-NGS-12344	76.12588	50870670		
18	Hapmap45491-BTA-43726	76.2886	51153494		
18	ARS-BFGL-NGS-51636	76.31077	51192008		
18	ARS-BFGL-NGS-2444	76.32605	51218571		
18	ARS-BFGL-NGS-10839	76.38	51321651		
18	ARS-BFGL-NGS-7137	76.38	51369666		

18	BTA-43725-no-rs	76.38	51413827	
18	ARS-BFGL-NGS-33511	76.38	51428990	
18	ARS-BFGL-NGS-3835	76.439	51503668	
18	Hapmap47294-BTA-43719	76.49017	51546064	
18	ARS-BFGL-NGS-117685	76.54675	51592949	
18	BTA-43712-no-rs	76.57898	51619660	
18	ARS-BFGL-NGS-22987	76.6085	51644121	
18	Hapmap57492-ss46526490	76.6533	51681243	
18	ARS-BFGL-NGS-72092	76.68046	51703749	
18	Hapmap49609-BTA-43790	76.70943	51727750	
18	ARS-BFGL-NGS-117698	76.78285	51788596	
18	ARS-BFGL-NGS-37312	76.82876	51826636	
18	ARS-BFGL-NGS-47731	76.86839	51859472	
18	ARS-BFGL-NGS-34874	76.91282	51896291	
18	Hapmap42167-BTA-28651	76.93851	51917582	
18	Hapmap53843-rs29014653	76.96553	51939973	
18	ARS-BFGL-BAC-28016	77.04171	52003816	
18	BTA-118931-no-rs	77.06482	52024379	
18	ARS-BFGL-NGS-116222	77.08899	52045889	
18	ARS-BFGL-NGS-103662	77.1354	52087186	
18	Hapmap52186-ss46527081	77.21322	52156425	
18	ARS-BFGL-NGS-7511	77.24566	52185292	
18	ARS-BFGL-NGS-17797	77.37955	52304421	
18	ARS-BFGL-NGS-17369	77.45924	52400162	
18	ARS-BFGL-NGS-99872	77.46871	52434006	
18	ARS-BFGL-NGS-17754	77.47416	52453472	
18	ARS-BFGL-NGS-56579	77.48353	52486964	
18	ARS-BFGL-NGS-112862	77.49277	52520013	
18	BTA-12313-rs29024268	77.50905	52578174	
18	ARS-BFGL-NGS-35419	77.53324	52664641	
18	Hapmap39738-BTA-29795	77.53919	52685927	
18	ARS-BFGL-NGS-114962	77.54771	52716347	
18	ARS-BFGL-NGS-113639	77.55407	52739093	
18	ARS-BFGL-NGS-99572	77.58574	52852305	
18	UA-IFASA-9064	77.77015	52971233	
18	Hapmap36162-SCAFFOLD261827_5746	77.84306	53013208	
18	ARS-BFGL-NGS-116944	77.94363	53071113	
18	ARS-BFGL-NGS-5032	78.04942	53132012	
18	ARS-BFGL-NGS-15438	78.21031	53224638	
18	ARS-BFGL-BAC-33779	78.30983	53281931	
18	ARS-BFGL-NGS-5711	78.3557	53308339	
18	ARS-BFGL-BAC-36969	78.6858	53498385	
18	ARS-BFGL-BAC-36979	78.81257	53571368	
18	ARS-BFGL-NGS-10036	79.06679	53717725	
18	ARS-BFGL-NGS-116232	79.17505	53790007	
18	Hapmap40977-BTA-43450	79.24713	53838341	
18	ARS-BFGL-NGS-110048	79.33041	53894172	
18	Hapmap41540-BTA-43915	79.44479	53970861	
18	ARS-BFGL-NGS-17290	79.53104	54028686	
18	ARS-BFGL-NGS-36626	79.56597	54052117	
18	ARS-BFGL-NGS-8684	79.60677	54079466	
18	ARS-BFGL-NGS-42678	79.65607	54112530	
18	Hapmap23685-BTA-132541	79.89352	54271729	
18	UA-IFASA-7471	79.95232	54311149	
18	ARS-BFGL-NGS-13599	80.01324	54351996	
18	ARS-BFGL-NGS-89650	80.04971	54376451	
18	BTA-22684-no-rs	80.15975	54450227	
18	ARS-BFGL-NGS-107108	80.22344	54492931	
18	ARS-BFGL-NGS-62151	80.282	54532193	

18	ARS-BFGL-NGS-52477	80.31782	54556209	
18	Hapmap47295-BTA-43799	80.44276	54639985	
18	ARS-BFGL-NGS-108618	80.5385	54704168	
18	BTB-00726211	80.66632	54863147	
18	ARS-BFGL-NGS-100074	80.71006	54934460	
18	Hapmap38225-BTA-43804	80.72939	54965977	
18	ARS-BFGL-NGS-82046	80.7426	54987510	
18	ARS-BFGL-NGS-10623	80.76752	55028139	
18	ARS-BFGL-NGS-13667	80.86498	55099575	
18	ARS-BFGL-NGS-70161	81.29556	55224848	
18	BTA-43816-no-rs	81.37463	55256431	
18	ARS-BFGL-NGS-116541	81.50751	55309510	
18	ARS-BFGL-NGS-117758	81.61863	55353898	
18	ARS-BFGL-NGS-77376	82.11703	55552981	
18	ARS-BFGL-NGS-7458	82.21008	55590144	
18	ARS-BFGL-NGS-31529	82.28939	55621823	
18	ARS-BFGL-NGS-18265	82.39878	55665518	
18	BTA-43890-no-rs	82.68507	55779877	
18	ARS-BFGL-NGS-93837	82.75364	55807264	
18	ARS-BFGL-NGS-40328	82.90548	55867916	
18	Hapmap47618-BTA-43817	82.96696	55892476	
18	ARS-BFGL-NGS-60829	83.12794	55956772	
18	BTB-00727071	83.39964	56065299	
18	Hapmap36420-SCAFFOLD190338_7279	83.54138	56121920	56121920
18	BTA-43831-no-rs	83.68605	56179705	
18	BTA-43837-no-rs	83.83334	56238540	
18	ARS-BFGL-NGS-38516	83.9389	56280702	
18	Hapmap49610-BTA-43828	84.03576	56319394	
18	ARS-BFGL-NGS-25104	84.14908	56364657	
18	ARS-BFGL-NGS-114202	84.23241	56397946	
18	Hapmap56958-ss46526466	84.28801	56420153	
18	ARS-BFGL-NGS-26305	84.54233	56521734	
18	ARS-BFGL-NGS-104774	84.64237	56561695	
18	ARS-BFGL-NGS-15481	84.76669	56611355	
18	Hapmap39335-BTA-43845	84.84526	56642741	
18	Hapmap43854-BTA-43847	84.98	56702312	
18	ARS-BFGL-NGS-39575	84.98	56775122	
18	ARS-BFGL-NGS-85825	84.98	56797271	
18	ARS-BFGL-NGS-4287	85.01176	56894807	
18	ARS-BFGL-NGS-3584	85.04325	56916895	
18	ARS-BFGL-NGS-38866	85.11017	56963820	
18	BTA-43856-no-rs	85.46331	57115739	
18	ARS-BFGL-NGS-71741	85.51445	57137345	
18	ARS-BFGL-NGS-98028	85.60291	57174711	
18	ARS-BFGL-NGS-25117	85.75347	57238311	
18	ARS-BFGL-NGS-6519	85.86978	57287445	
18	BTB-00731236	85.9377	57332964	
18	BTA-97501-no-rs	86.28289	57565406	
18	ARS-BFGL-NGS-109285	86.30804	57589121	
18	ARS-BFGL-NGS-6380	86.51939	57788407	
18	ARS-BFGL-NGS-24019	86.56254	57829095	
18	ARS-BFGL-NGS-23169	86.59077	57855715	
18	ARS-BFGL-NGS-57287	86.61214	57875874	
18	ARS-BFGL-NGS-100080	86.64037	57902491	
18	ARS-BFGL-NGS-25317	86.68983	57949128	
18	ARS-BFGL-NGS-53433	86.71143	57969493	
18	ARS-BFGL-BAC-2333	86.81517	58067310	
18	BTB-00729025	86.91065	58157343	
18	Hapmap42211-BTA-43910	86.95985	58203733	

18	ARS-BFGL-NGS-54181	87.05002	58288756	
18	Hapmap45189-BTA-43948	87.17228	58404041	
18	Hapmap23557-BTA-132578	87.25085	58478126	
18	ARS-BFGL-NGS-38212	87.27045	58496609	
18	Hapmap40906-BTA-121147	87.32846	58551307	
18	BTB-00730867	87.40404	58622568	
18	Hapmap40537-BTA-43945	87.45039	58666276	
18	BTA-29287-no-rs	87.48198	58696066	
18	BTB-01425816	88.72131	59662778	
18	ARS-BFGL-NGS-116069	88.99331	59802319	
18	ARS-BFGL-NGS-118325	89.30138	60103953	
18	ARS-BFGL-NGS-39594	89.32983	60135318	
18	Hapmap44043-BTA-24219	89.39357	60205583	
18	BTB-00730899	89.46239	60281443	
18	Hapmap39566-BTA-43960	89.4967	60319267	
18	ARS-BFGL-NGS-17877	89.54953	60377508	
18	BTB-01438985	89.57811	60409006	
18	ARS-BFGL-NGS-113553	89.68389	60525615	
18	BTB-01458106	90.57734	60854919	
18	Hapmap50515-BTA-94967	90.61754	60978019	
18	BTB-01960462	90.64	61054591	
18	ARS-BFGL-NGS-11218	90.71061	61095214	
18	ARS-BFGL-NGS-113023	90.85856	61156737	
18	ARS-BFGL-NGS-21704	90.8976	61172967	
18	ARS-BFGL-NGS-102196	90.92061	61182535	
18	ARS-BFGL-NGS-49873	91.12588	61267887	
18	ARS-BFGL-NGS-9311	91.49597	61421776	
18	Hapmap40847-BTA-98475	91.53529	61438125	
18	ARS-BFGL-NGS-98851	91.91916	61597742	
18	BTA-106398-no-rs	92.03246	61644854	
18	Hapmap40935-BTA-27343	92.5547	61920892	
18	BTB-00732576	92.59001	61982105	
18	ARS-BFGL-NGS-28328	92.62303	62039345	
18	ARS-BFGL-NGS-15530	92.63788	62065073	
18	ARS-BFGL-NGS-13972	92.67721	62133252	
18	BTA-03959-no-rs	92.72809	62221442	
18	ARS-BFGL-NGS-110490	92.79	62375495	
18	ARS-BFGL-NGS-34007	92.79	62396664	
18	ARS-BFGL-NGS-84356	92.79	62427814	
18	ARS-BFGL-NGS-35636	92.79	62467006	
18	ARS-BFGL-NGS-25758	92.79	62512168	
18	BTA-44079-no-rs	92.79	62537136	
18	ARS-BFGL-NGS-1786	92.79	62571431	
18	ARS-BFGL-NGS-15837	92.79	62591127	
18	ARS-BFGL-NGS-20095	92.79	62658789	
18	ARS-BFGL-NGS-25963	92.79	62695412	
18	ARS-BFGL-NGS-109959	92.79861	62726859	
18	ARS-BFGL-NGS-71133	92.8074	62751093	
18	ARS-BFGL-NGS-73221	92.82674	62804417	
18	ARS-BFGL-NGS-38846	92.89742	62999282	
18	ARS-BFGL-NGS-111782	92.90823	63029071	
18	ARS-BFGL-NGS-21979	92.91113	63037062	
18	ARS-BFGL-NGS-34430	92.91872	63057989	
18	ARS-BFGL-NGS-103214	92.93275	63096692	
18	ARS-BFGL-NGS-78563	92.94098	63119361	
18	Hapmap34314-BES10_Contig737_1144	92.9586	63167945	
18	ARS-BFGL-NGS-94482	93.24383	63380099	
18	ARS-BFGL-NGS-41595	93.28606	63400996	
18	ARS-BFGL-BAC-31665	93.44392	63479109	

18	ARS-BFGL-NGS-33663	93.51112	63512359
18	Hapmap47226-BTA-25234	93.63335	63572848
18	ARS-BFGL-NGS-35793	93.75304	63632070
18	ARS-BFGL-NGS-74592	93.83462	63672441
18	ARS-BFGL-NGS-100532	94.25115	63878550
18	ARS-BFGL-NGS-11456	94.32265	63913936
18	ARS-BFGL-NGS-110088	94.41605	63960153
18	BTB-01631910	94.58859	64045527
18	Hapmap49091-BTA-24678	94.68271	64108397
18	ARS-BFGL-NGS-70239	94.71571	64133299
18	BTA-44117-no-rs	94.78838	64188147
18	ARS-BFGL-NGS-113896	94.84553	64231273
18	ARS-BFGL-NGS-17826	94.91823	64286141
18	ARS-BFGL-NGS-77425	94.97145	64316116
18	ARS-BFGL-NGS-38620	95.10232	64382705
18	ARS-BFGL-NGS-43378	95.1595	64411799
18	BTB-00735179	95.32259	64494781
18	ARS-BFGL-NGS-112365	95.42789	64548360
18	ARS-BFGL-NGS-9848	95.50394	64610767
18	ARS-BFGL-NGS-36598	95.52864	64647807
18	ARS-BFGL-NGS-31954	95.54266	64668829
18	ARS-BFGL-NGS-77889	95.55875	64692962
18	ARS-BFGL-NGS-27370	95.57979	64724506
18	Hapmap38226-BTA-44032	95.60229	64758244
18	BTB-01703346	95.79133	64901743
18	ARS-BFGL-NGS-42788	95.94414	64938786
18	ARS-BFGL-NGS-107405	96.06717	64976706
18	BTB-01712706	96.09965	65021264
18	ARS-BFGL-NGS-32605	96.13046	65063534
18	ARS-BFGL-NGS-41524	96.15737	65100461
18	BTB-00733511	96.18783	65142245
18	Hapmap32869-BTA-161633	96.21162	65174876
18	ARS-BFGL-NGS-102143	96.23544	65207570
18	ARS-BFGL-NGS-65602	96.25285	65231440
18	Hapmap51570-BTA-17962	96.28087	65269893
18	ARS-BFGL-NGS-43267	96.32219	65326585
18	BTA-44155-no-rs	96.35411	65370372
18	ARS-BFGL-NGS-110637	96.37901	65404530
18	ARS-BFGL-NGS-110521	96.69636	65447640
18	ARS-BFGL-NGS-60589	97.13293	65505257
18	ARS-BFGL-NGS-19022	97.4799	65551047
18	ARS-BFGL-NGS-100207	97.69727	65579737
18	ARS-BFGL-NGS-58016	97.71873	65604707
18	Hapmap59667-rs29014989	97.76997	65672008
18	ARS-BFGL-NGS-117714	97.84306	65768024
18	ARS-BFGL-NGS-66086	97.92147	65871032
18	ARS-BFGL-NGS-111067	98.00335	65978584
19	ARS-BFGL-NGS-90502	0	465815
19	ARS-BFGL-NGS-67838	0	501225
19	ARS-BFGL-NGS-92544	0.1070499	1176372
19	BTA-45069-no-rs	1.61687	1439012
19	Hapmap50143-BTA-88782	2.253301	1549722
19	Hapmap52222-rs29024210	2.910755	1664089
19	ARS-BFGL-NGS-43028	3.153439	1706305
19	BTA-88777-no-rs	3.27719	1727832
19	ARS-BFGL-NGS-111231	3.412651	1751396
19	ARS-BFGL-NGS-116522	4.286408	1903390
19	ARS-BFGL-NGS-92522	4.544534	1948292
19	Hapmap39832-BTA-46468	5.379281	2093500

19	BTA-25112-no-rs	5.949005	2192606	
19	Hapmap27040-BTA-25119	6.399255	2270929	
19	ARS-BFGL-NGS-101936	6.689106	2321350	
19	ARS-BFGL-BAC-33075	7.628197	2484709	
19	ARS-BFGL-NGS-61214	7.853131	2526899	
19	ARS-BFGL-NGS-24753	9.721538	3024589	
19	Hapmap50697-BTA-44862	10.0994	3071686	
19	ARS-BFGL-NGS-18180	11.13441	3212643	
19	ARS-BFGL-NGS-99246	11.29677	3247474	
19	BTA-110817-no-rs	12.73493	3674493	
19	ARS-BFGL-NGS-7556	12.85342	3710275	
19	ARS-BFGL-NGS-42215	13.12744	3793023	
19	ARS-BFGL-NGS-96542	13.2037	3816052	
19	UA-IFASA-9616	13.35693	3862327	
19	BTA-22164-no-rs	13.78749	3992347	
19	UA-IFASA-8818	14.52137	4213966	
19	ARS-BFGL-NGS-75390	14.7625	4286783	
19	Hapmap43990-BTA-102443	14.95935	4346346	
19	Hapmap42767-BTA-102444	15.04134	4372145	
19	ARS-BFGL-NGS-16174	15.27568	4445885	
19	BTA-22151-no-rs	15.34999	4469266	
19	Hapmap39390-BTA-22146	15.47797	4509536	
19	ARS-BFGL-NGS-42292	15.85081	4626856	
19	Hapmap50598-BTA-122724	15.98969	4670556	
19	BTA-28147-no-rs	16.08071	4699197	
19	BTA-28144-no-rs	16.27452	4760179	
19	UA-IFASA-7543	17.11062	5057128	
19	Hapmap34054-BES9_Contig444_1181		17.17756	5083994
19	ARS-BFGL-NGS-111654	17.39743	5172239	
19	BTA-02315-rs29009872	17.53717	5228324	
19	ARS-BFGL-NGS-80189	17.6101	5257592	
19	UA-IFASA-6791	17.74334	5311065	
19	Hapmap49106-BTA-28140	17.89869	5373415	
19	Hapmap41273-BTA-46442	18.15958	5478122	
19	ARS-BFGL-NGS-114249	18.41681	5581361	
19	ARS-BFGL-NGS-2106	18.66561	5681215	
19	ARS-BFGL-NGS-10835	18.7588	5718616	
19	ARS-BFGL-NGS-102316	18.81301	5740371	
19	ARS-BFGL-NGS-102180	18.86975	5763142	
19	ARS-BFGL-NGS-37417	19.02413	5825105	
19	ARS-BFGL-NGS-114778	19.29619	5934293	
19	Hapmap32837-BTA-149843	19.62	6106937	
19	ARS-BFGL-NGS-40628	20.02161	6241437	
19	ARS-BFGL-NGS-88208	20.87867	6454113	
19	ARS-BFGL-NGS-3016	20.96524	6475597	
19	UA-IFASA-9731	21.15787	6523398	
19	ARS-BFGL-NGS-117526	21.4614	6598719	
19	BTA-92359-no-rs	21.77921	6677581	
19	ARS-BFGL-BAC-32481	21.90932	6709868	
19	Hapmap50607-BTA-17724	22.14452	6768232	
19	ARS-BFGL-NGS-115601	22.36295	6822436	
19	ARS-BFGL-NGS-47431	22.49353	6854840	
19	ARS-BFGL-NGS-4893	22.65617	6895198	
19	Hapmap41466-BTA-17729	22.96568	6972003	
19	ARS-BFGL-NGS-3783	23.07482	6999086	
19	ARS-BFGL-NGS-97148	23.19098	7028893	
19	Hapmap51232-BTA-44651	23.28203	7059645	
19	ARS-BFGL-NGS-25347	23.37042	7089496	
19	UA-IFASA-5442	23.59067	7163882	

19	ARS-BFGL-NGS-20801	23.70746	7203327		
19	ARS-BFGL-BAC-32502	23.79189	7231838		
19	Hapmap51233-BTA-44716	23.91632	7273862		
19	ARS-BFGL-NGS-117325	24.07	7348652		
19	UA-IFASA-7520	24.07	7376840		
19	Hapmap57610-rs29021008	24.07	7435415		
19	UA-IFASA-8401	24.07	7461446		
19	Hapmap40983-BTA-44816	24.1497	7511302		
19	ARS-BFGL-NGS-10718	24.24249	7544603		
19	ARS-BFGL-NGS-48084	24.43981	7615419		
19	UA-IFASA-9259	24.50263	7637962		
19	ARS-BFGL-NGS-30808	24.62764	7682826		
19	UA-IFASA-7951	24.76102	7730695		
19	ARS-BFGL-NGS-87368	24.85053	7762820		
19	ARS-BFGL-NGS-5432	25.0475	7833508		
19	ARS-BFGL-NGS-53296	25.16541	7875822		
19	ARS-BFGL-NGS-14867	25.34578	7940557		
19	ARS-BFGL-NGS-114974	25.58992	8028175		
19	Hapmap57074-ss46526213	25.65676	8052163		
19	BTB-01423279	25.79779	8102774		
19	UA-IFASA-7338	26.06898	8200102		
19	ARS-BFGL-NGS-35514	26.11348	8216070		
19	ARS-BFGL-NGS-102977	26.18265	8240893		
19	BTB-00736933	26.29315	8280552		
19	ARS-BFGL-NGS-78058	26.36744	8307212		
19	ARS-BFGL-NGS-106024	26.52293	8363016		
19	ARS-BFGL-NGS-97639	26.85862	8483490		
19	ARS-USMARC-Parent-DQ888311-rs29017313	26.91944	8505317		
19	ARS-BFGL-NGS-78571	26.98254	8527962		
19	Hapmap40989-BTA-45649	27.07417	8560848		
19	UA-IFASA-6719	27.17693	8597725		
19	ARS-BFGL-NGS-22909	27.2462	8622586		
19	Hapmap40545-BTA-45608	27.31898	8648705		
19	ARS-BFGL-NGS-116187	27.45304	8696817		
19	ARS-BFGL-NGS-42837	27.58939	8745752		
19	Hapmap40740-BTA-45574	27.65929	8770836		
19	ARS-BFGL-NGS-119435	27.80749	8824023		
19	ARS-BFGL-NGS-22031	28.10478	8930715		
19	UA-IFASA-7142	28.37301	9026978		
19	Hapmap42218-BTA-45703	28.47629	9079748		
19	ARS-BFGL-NGS-6594	28.53591	9115265		
19	ARS-BFGL-NGS-26031	28.58759	9146052		
19	ARS-BFGL-NGS-103755	28.63165	9172300		
19	Hapmap51888-BTA-16242	28.77005	9254757		
19	UA-IFASA-5845	28.93487	9352943		
19	Hapmap25248-BTA-132715	28.93716	9354310		
19	ARS-BFGL-BAC-2435	29.04318	9417473		
19	UA-IFASA-7223	29.15798	9485862		
19	ARS-BFGL-NGS-77925	29.2298	9528648		
19	ARS-BFGL-NGS-102856	29.33531	9591508		
19	ARS-BFGL-NGS-76833	29.48431	9678313		
19	ARS-BFGL-NGS-107174	29.6952	9786918		
19	UA-IFASA-6732	29.90708	9896033		
19	Hapmap41463-BTA-16302	30.27433	10085159		
19	Hapmap48998-BTA-104140	30.38145	10140328		
19	ARS-BFGL-NGS-101648	30.4424	10171715		
19	ARS-BFGL-BAC-33077	30.49409	10198335		
19	ARS-BFGL-NGS-118864	30.53893	10221425		
19	ARS-BFGL-NGS-107289	30.70134	10305065		

19	ARS-BFGL-NGS-7605	30.82309	10367765	
19	Hapmap50969-BTA-45810	30.9369	10426372	
19	ARS-BFGL-NGS-44096	31.11795	10519611	
19	ARS-BFGL-NGS-33000	31.16314	10542886	
19	ARS-BFGL-NGS-117486	31.24067	10617246	
19	BTA-46439-no-rs	31.30516	10694269	
19	Hapmap58269-rs29018185	31.47537	10897581	
19	UA-IFASA-6593	31.49464	10920596	
19	UA-IFASA-6335	31.60243	11049355	
19	UA-IFASA-6667	31.72796	11199299	
19	Hapmap30007-BTA-147050	31.76097	11238727	
19	ARS-BFGL-NGS-102654	31.89714	11401381	
19	UA-IFASA-9374	31.92551	11435269	
19	UA-IFASA-5866	32.16962	11726846	
19	ARS-BFGL-NGS-101261	32.22	11833182	
19	Hapmap52907-rs29010949	32.22	11863651	
19	Hapmap41183-BTA-121162	32.22	11904961	
19	ARS-BFGL-NGS-19756	32.22	11943620	
19	ARS-BFGL-NGS-88296	32.22	11970132	
19	ARS-BFGL-NGS-40746	32.22	11998872	
19	UA-IFASA-6320	32.22	12032389	
19	ARS-BFGL-NGS-28151	32.22	12124893	
19	Hapmap27603-BTA-147419	32.23415	12189952	
19	Hapmap43381-BTA-86488	32.25537	12242221	
19	Hapmap43382-BTA-86490	32.27161	12282205	
19	Hapmap26973-BTA-147422	32.29546	12340926	
19	Hapmap59625-rs29013473	32.31462	12388124	
19	BTA-93483-no-rs	32.36631	12515399	
19	ARS-BFGL-NGS-60627	32.53963	12669286	
19	ARS-BFGL-NGS-4536	32.61548	12717726	
19	Hapmap51662-BTA-93469	32.70096	12772309	
19	ARS-BFGL-BAC-32986	32.73624	12794836	
19	UA-IFASA-6460	32.76973	12816221	
19	UA-IFASA-6180	32.93335	12920699	
19	ARS-BFGL-BAC-27907	33.00788	12968297	
19	Hapmap35067-BES1_Contig631_717		33.07854	13013418
19	BTA-118330-no-rs	33.12359	13042183	
19	ARS-BFGL-NGS-92335	33.21157	13098361	
19	ARS-BFGL-NGS-37177	33.29993	13154786	
19	ARS-BFGL-NGS-101272	33.34333	13180506	
19	ARS-BFGL-NGS-22804	33.48112	13247857	
19	ARS-BFGL-NGS-26874	33.53648	13274918	
19	ARS-BFGL-NGS-33447	33.61617	13313876	
19	UA-IFASA-6139	33.671	13340676	
19	ARS-BFGL-NGS-107267	33.74788	13378259	
19	ARS-BFGL-NGS-87171	33.8443	13425388	
19	UA-IFASA-5958	33.90979	13457401	
19	ARS-BFGL-NGS-7447	33.98063	13492031	
19	ARS-BFGL-NGS-99672	34.06741	13534451	
19	Hapmap46823-BTA-46508	34.27233	13634621	
19	Hapmap43584-BTA-46507	34.30366	13649935	
19	BTA-45897-no-rs	34.60984	13783550	
19	UA-IFASA-8430	34.72622	13831090	
19	UA-IFASA-7601	34.86535	13887927	
19	UA-IFASA-8072	35.00386	13944508	
19	ARS-BFGL-NGS-114182	35.1607	14008574	
19	BTA-12217-no-rs	35.2224	14033780	
19	BTA-03693-no-rs	35.36207	14090834	
19	UA-IFASA-7392	35.43751	14121650	



19	ARS-BFGL-NGS-103640	35.5199	14155308	
19	ARS-BFGL-NGS-97881	35.64505	14206428	
19	Hapmap23682-BTA-123103	35.88785	14305612	
19	UA-IFASA-7616	35.93785	14326037	
19	Hapmap47635-BTA-46465	36.05381	14373409	
19	UA-IFASA-8095	36.14096	14409010	
19	ARS-BFGL-NGS-42624	36.37304	14515404	
19	ARS-BFGL-NGS-30368	36.4089	14548101	
19	UA-IFASA-5439	36.4435	14579657	
19	ARS-BFGL-NGS-116685	36.4909	14622872	
19	ARS-BFGL-NGS-113158	36.54647	14673538	
19	ARS-BFGL-NGS-21921	36.59257	14715567	
19	ARS-BFGL-NGS-30310	36.64467	14763072	
19	Hapmap59291-rs29022102	36.70245	14815755	
19	ARS-BFGL-BAC-33086	36.74348	14853169	
19	ARS-BFGL-NGS-57566	36.93173	14923593	
19	Hapmap40357-BTA-46514	37.2471	15000767	
19	Hapmap41549-BTA-46518	37.40307	15038933	
19	UA-IFASA-6550	37.48957	15060100	
19	ARS-BFGL-NGS-40104	37.68233	15107270	
19	ARS-BFGL-NGS-5276	37.8062	15137581	
19	ARS-BFGL-NGS-99797	37.90398	15170598	
19	ARS-BFGL-NGS-52513	37.97047	15230115	
19	ARS-BFGL-NGS-110713	37.99848	15255191	
19	ARS-BFGL-NGS-45350	38.02713	15280834	
19	Hapmap48773-BTA-46569	38.07301	15321899	
19	ARS-USMARC-Parent-EF026084-rs29025380	38.09916	15345312	
19	UA-IFASA-5783	38.11821	15362361	
19	Hapmap40995-BTA-46564	38.16946	15408238	
19	UA-IFASA-5295	38.19284	15429169	
19	ARS-BFGL-NGS-37692	38.22696	15459702	
19	Hapmap38895-BTA-46550	38.25627	15485941	
19	UA-IFASA-7088	38.27965	15506868	
19	Hapmap54814-rs29020060	38.31069	15534654	
19	ARS-BFGL-NGS-44790	38.32	15568242	
19	ARS-BFGL-NGS-35416	38.32	15594378	
19	ARS-BFGL-NGS-26918	38.33998	15621300	
19	ARS-BFGL-NGS-26114	38.36913	15654722	
19	ARS-BFGL-NGS-39131	38.39484	15684189	
19	ARS-BFGL-NGS-34500	38.41775	15710458	
19	ARS-BFGL-NGS-56449	38.46852	15768658	
19	Hapmap47018-BTA-46530	38.53194	15841374	
19	ARS-BFGL-NGS-107729	38.55126	15863515	
19	UA-IFASA-6239	38.57946	15895849	
19	ARS-BFGL-NGS-106264	38.60636	15926681	
19	ARS-BFGL-NGS-112774	38.6693	15980813	
19	UA-IFASA-7130	38.69426	15997977	
19	BTA-05286-rs29019447	38.92299	16107189	
19	ARS-BFGL-NGS-32552	39.0943	16158018	
19	ARS-BFGL-NGS-118126	39.20941	16192170	
19	ARS-BFGL-NGS-77575	39.3289	16239666	
19	ARS-BFGL-NGS-44497	39.3841	16291240	
19	BTB-00738813	39.50129	16400722	
19	ARS-BFGL-NGS-2335	39.5409	16437725	
19	ARS-BFGL-NGS-101716	39.59407	16487404	
19	UA-IFASA-8305	39.62122	16512768	
19	ARS-BFGL-NGS-26149	39.65035	16539982	
19	ARS-BFGL-NGS-40679	39.69142	16578349	
19	ARS-BFGL-NGS-109221	39.71331	16598801	

19	Hapmap48766-BTA-44540	39.74184	16625451
19	Hapmap53971-rs29017666	39.76754	16649459
19	ARS-BFGL-NGS-53378	39.82167	16700029
19	ARS-BFGL-NGS-6764	39.87555	16750367
19	ARS-BFGL-NGS-6298	39.90669	16779459
19	UA-IFASA-9514	39.94042	16810968
19	ARS-BFGL-NGS-115774	40.15289	16874635
19	ARS-BFGL-NGS-17597	40.83486	17035062
19	ARS-BFGL-NGS-36513	41.34	17236707
19	ARS-BFGL-NGS-61329	41.34	17276048
19	ARS-BFGL-BAC-33094	41.34	17298218
19	ARS-BFGL-NGS-42338	41.34	17326249
19	ARS-BFGL-NGS-117502	41.34	17416775
19	ARS-BFGL-NGS-15190	41.34	17467854
19	ARS-BFGL-NGS-75651	41.34	17495652
19	ARS-BFGL-NGS-105643	41.61481	17540177
19	UA-IFASA-5404	41.80064	17569423
19	ARS-BFGL-NGS-11665	41.97901	17597495
19	ARS-BFGL-NGS-15194	42.31664	17650637
19	Hapmap50362-BTA-44583	42.63967	17701476
19	BTB-00740579	42.86773	17737370
19	ARS-BFGL-NGS-58978	43.01229	17760122
19	ARS-BFGL-NGS-19462	43.33972	17811655
19	ARS-BFGL-NGS-26897	43.64342	17859454
19	ARS-BFGL-NGS-112779	43.827	17888348
19	ARS-BFGL-NGS-22914	44.05303	17923922
19	Hapmap39489-BTA-44619	44.17871	17964542
19	UA-IFASA-4457	44.25372	18016729
19	BTB-00740910	44.30812	18054584
19	BTB-00740898	44.36172	18091871
19	UA-IFASA-6519	44.42545	18136211
19	ARS-BFGL-NGS-111083	44.45789	18158785
19	ARS-BFGL-NGS-35193	44.49963	18187824
19	ARS-BFGL-NGS-112753	44.5643	18232821
19	Hapmap47954-BTA-44607	44.59624	18255042
19	ARS-BFGL-NGS-42568	44.7043	18330218
19	ARS-BFGL-NGS-71297	44.73555	18351965
19	UA-IFASA-5746	44.78264	18384729
19	UA-IFASA-5523	44.84468	18427893
19	BTA-07407-no-rs	44.88197	18453832
19	BTB-00738654	44.90128	18467274
19	Hapmap42212-BTA-44515	44.94092	18494850
19	Hapmap54604-rs29019767	45.00486	18539339
19	Hapmap40355-BTA-44508	45.06767	18583031
19	ARS-BFGL-NGS-110160	45.14621	18637678
19	UA-IFASA-4964	45.23697	18700829
19	ARS-BFGL-BAC-35648	45.28939	18737297
19	ARS-BFGL-NGS-54750	45.3436	18775014
19	UA-IFASA-7987	45.37906	18799689
19	ARS-BFGL-NGS-20476	45.46613	18860268
19	ARS-BFGL-NGS-54566	45.53301	18906797
19	BTA-46589-no-rs	45.67215	19003601
19	Hapmap27952-BTA-132811	45.71429	19036667
19	Hapmap40170-BTA-20573	45.85895	19175183
19	ARS-BFGL-NGS-40743	45.98437	19295281
19	Hapmap38409-BTA-46586	46.06587	19373322
19	ARS-BFGL-NGS-82757	46.09415	19400402
19	UA-IFASA-5339	46.12969	19434437
19	ARS-BFGL-NGS-620	46.15925	19462742

19	Hapmap38160-BTA-46571	46.23435	19534658	
19	ARS-BFGL-NGS-73727	46.28907	19587050	
19	ARS-BFGL-NGS-39671	46.315	19611880	
19	ARS-BFGL-NGS-10750	46.34165	19637405	
19	ARS-BFGL-NGS-59659	46.37553	19669849	
19	ARS-BFGL-NGS-107725	46.42656	19718709	
19	UA-IFASA-6841	46.50041	19789422	
19	BTB-02060764	46.62751	19911128	
19	ARS-BFGL-NGS-109169	46.78962	20066365	
19	ARS-BFGL-NGS-106227	46.81407	20089776	
19	ARS-BFGL-NGS-90414	46.84377	20118208	
19	ARS-BFGL-NGS-24219	46.86489	20138445	
19	ARS-BFGL-NGS-14316	46.89913	20171223	
19	Hapmap60292-rs29022330	46.93921	20209602	
19	Hapmap41541-BTA-44653	47.02694	20293612	
19	Hapmap60068-rs29019325	47.10891	20372100	
19	ARS-BFGL-NGS-2406	47.13367	20395816	
19	ARS-BFGL-NGS-21670	47.17913	20439349	
19	ARS-BFGL-NGS-20809	47.26104	20517776	
19	ARS-BFGL-NGS-104645	47.33342	20587085	
19	ARS-BFGL-NGS-67451	47.35802	20610643	
19	ARS-BFGL-NGS-63687	47.38419	20635700	
19	ARS-BFGL-NGS-31909	47.46	20811074	
19	Hapmap40539-BTA-44669	47.46	20878990	
19	Hapmap34814-BES8_Contig361_961	47.46	20945594	
19	ARS-BFGL-NGS-32894	47.46	20974167	
19	ARS-BFGL-NGS-103531	47.46	21006570	
19	ARS-BFGL-NGS-112012	47.46	21031267	
19	ARS-BFGL-NGS-34770	47.46	21145204	
19	ARS-BFGL-NGS-115899	47.51392	21388415	
19	UA-IFASA-7043	47.55551	21569741	
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19	Hapmap53206-rs29014774	47.58226	21686395	
19	BTA-118486-no-rs	47.58918	21716537	
19	ARS-BFGL-NGS-309	47.59296	21733030	
19	Hapmap55122-rs29020857	47.61767	21840791	
19	Hapmap47625-BTA-44726	47.62635	21878635	
19	Hapmap38959-BTA-44727	47.64283	21950487	
19	ARS-BFGL-NGS-14641	47.65673	22011112	
19	ARS-BFGL-NGS-78426	47.66309	22038801	
19	ARS-BFGL-NGS-105622	47.69024	22157176	
19	ARS-BFGL-NGS-32897	47.69854	22193401	
19	Hapmap41542-BTA-44740	47.7054	22223293	
19	ARS-BFGL-NGS-71746	47.71504	22265346	
19	BTA-44751-no-rs	47.72145	22300584	
19	ARS-BFGL-NGS-32769	47.72634	22346456	
19	ARS-BFGL-NGS-21547	47.72861	22367761	
19	ARS-BFGL-NGS-105614	47.73618	22438784	
19	ARS-BFGL-NGS-84530	47.75877	22650660	
19	Hapmap57648-rs29022376	47.76499	22709090	
19	ARS-BFGL-NGS-116639	47.76934	22749859	
19	ARS-BFGL-NGS-10318	47.7791	22841439	
19	Hapmap57985-rs29018792	47.78155	22864442	
19	ARS-BFGL-NGS-82690	47.78554	22901879	
19	Hapmap40432-BTA-44778	47.78981	22941925	
19	Hapmap59273-rs29027283	47.79208	22963249	
19	ARS-BFGL-NGS-43245	47.80049	23042156	
19	BTB-00742910	47.80647	23098238	
19	ARS-BFGL-NGS-41561	47.81309	23160362	

19	Hapmap55005-rs29021777	47.81948	23220366	
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19	ARS-BFGL-NGS-15792	47.82709	23291700	
19	ARS-BFGL-NGS-15111	47.82957	23314971	
19	ARS-BFGL-NGS-60141	47.83329	23349878	
19	ARS-BFGL-NGS-80289	47.83832	23397071	
19	ARS-BFGL-NGS-118070	47.84689	23477516	
19	ARS-BFGL-NGS-54135	47.85136	23519485	
19	ARS-BFGL-NGS-20165	47.85588	23561900	
19	ARS-BFGL-NGS-106886	47.86055	23605621	
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19	BTB-00743148	47.87408	23732618	
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19	ARS-BFGL-NGS-104352	47.88111	23798617	
19	Hapmap47955-BTA-44807	47.88955	23877748	
19	ARS-BFGL-NGS-1715	47.89662	23944091	
19	Hapmap41868-BTA-44809	47.8989	23965422	
19	Hapmap51234-BTA-44811	47.90681	24039732	
19	Hapmap57045-rs29017091	47.91014	24070908	
19	Hapmap51451-BTA-44812	47.91717	24136906	
19	UA-IFASA-8819	47.92075	24170529	
19	UA-IFASA-8469	47.92872	24245251	
19	ARS-BFGL-NGS-18213	47.93534	24307384	
19	BTB-00743564	47.93729	24325647	
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19	ARS-BFGL-NGS-4418	47.9454	24401822	
19	ARS-BFGL-NGS-4962	47.94808	24426919	
19	ARS-BFGL-NGS-21592	47.95132	24457274	
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19	ARS-BFGL-NGS-61713	47.96327	24569440	
19	UA-IFASA-2406	47.97636	24692211	
19	ARS-BFGL-BAC-31839	47.98919	24812617	
19	ARS-BFGL-NGS-4744	47.9958	24874614	
19	ARS-BFGL-NGS-81462	48.00037	24917540	
19	Hapmap58587-ss46526997	48.00618	24972085	
19	ARS-BFGL-NGS-26976	48.00864	24995142	
19	ARS-BFGL-NGS-84618	48.01096	25016881	
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19	Hapmap40985-BTA-44868	48.01661	25069933	
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19	ARS-BFGL-NGS-81994	48.03108	25205698	
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19	Hapmap35171-BES8_Contig573_3337		48.03687	25260008
19	ARS-BFGL-NGS-73091	48.04015	25290738	
19	ARS-BFGL-NGS-106007	48.04349	25322120	
19	UA-IFASA-8851	48.04568	25342668	
19	ARS-BFGL-NGS-96911	48.05173	25399398	
19	Hapmap35043-BES8_Contig175_603		48.05463	25426630
19	Hapmap49615-BTA-44891	48.05798	25458074	
19	ARS-BFGL-NGS-117796	48.06558	25529363	
19	ARS-BFGL-NGS-103353	48.0716	25585857	
19	ARS-BFGL-NGS-110331	48.07547	25622131	
19	ARS-BFGL-NGS-110373	48.07897	25654960	
19	Hapmap47012-BTA-44901	48.08836	25743113	
19	ARS-BFGL-NGS-97673	48.09153	25772789	
19	ARS-BFGL-NGS-61473	48.09837	25837047	

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19	Hapmap47299-BTA-44913	48.10491	25898366
19	Hapmap42058-BTA-108930	48.11206	25965433
19	ARS-BFGL-NGS-93006	48.11436	25987020
19	ARS-BFGL-NGS-71904	48.11737	26015315
19	ARS-BFGL-NGS-117248	48.11998	26039760
19	ARS-BFGL-NGS-101545	48.12283	26066452
19	BTB-01624106	48.13015	26135182
19	Hapmap46758-BTA-108921	48.13517	26182297
19	ARS-BFGL-NGS-81882	48.14118	26238708
19	ARS-BFGL-NGS-44106	48.14389	26264145
19	ARS-BFGL-NGS-116909	48.14621	26285867
19	UA-IFASA-6192	48.15108	26331593
19	ARS-BFGL-NGS-112916	48.1582	26398385
19	Hapmap59765-rs29022944	48.16435	26456085
19	BTB-01661503	48.16785	26488903
19	ARS-BFGL-NGS-1837	48.17503	26556279
19	ARS-BFGL-NGS-119469	48.17785	26582764
19	ARS-BFGL-NGS-2775	48.18065	26609020
19	ARS-BFGL-NGS-5038	48.1828	26629173
19	ARS-BFGL-NGS-117973	48.18574	26656773
19	Hapmap41456-BTA-121177	48.19044	26700849
19	Hapmap50965-BTA-44702	48.2062	26848767
19	ARS-BFGL-NGS-31311	48.20964	26881051
19	ARS-BFGL-NGS-76261	48.21447	26926279
19	BTB-00742000	48.217	26950041
19	ARS-BFGL-NGS-17554	48.23294	27099600
19	ARS-BFGL-NGS-21327	48.23639	27131960
19	BTB-00741582	48.24912	27251398
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19	ARS-BFGL-NGS-113401	48.26173	27369763
19	ARS-BFGL-NGS-38067	48.26972	27444684
19	ARS-BFGL-NGS-37715	48.27475	27491890
19	ARS-BFGL-NGS-117208	48.27879	27529791
19	ARS-BFGL-NGS-114201	48.28372	27576066
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19	Hapmap51730-BTA-44937	48.29093	27643677
19	BTB-00745265	48.29422	27674629
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19	BTB-01681968	48.30369	27763447
19	ARS-BFGL-BAC-36986	48.32812	27992667
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19	ARS-BFGL-BAC-32291	48.33537	28060683
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19	ARS-BFGL-NGS-101671	48.36802	28366979
19	ARS-BFGL-NGS-95155	48.3769	28450297
19	BTB-01692321	48.38057	28484744
19	ARS-BFGL-NGS-31543	48.38709	28545943
19	ARS-BFGL-NGS-103553	48.3924	28595703
19	ARS-BFGL-NGS-109195	48.39596	28629120
19	Hapmap54918-rs29023719	48.40117	28677989
19	BTB-00745293	48.40762	28738511
19	BTB-00745347	48.41077	28768067
19	BTB-00745391	48.4146	28804007
19	ARS-BFGL-NGS-81151	48.42697	28920096

19	ARS-BFGL-NGS-81552	48.43384	28984588
19	ARS-BFGL-NGS-73716	48.43763	29020067
19	ARS-BFGL-NGS-115178	48.4407	29048973
19	ARS-BFGL-NGS-43359	48.45176	29152662
19	ARS-BFGL-NGS-6931	48.456	29192454
19	ARS-BFGL-NGS-18515	48.45885	29219211
19	ARS-BFGL-NGS-79203	48.46526	29279305
19	ARS-BFGL-NGS-105454	48.4702	29325678
19	ARS-BFGL-NGS-17187	48.47271	29349255
19	ARS-BFGL-NGS-111936	48.47636	29383514
19	ARS-BFGL-NGS-6269	48.47939	29411883
19	ARS-BFGL-NGS-14725	48.48252	29441262
19	BTB-00745875	48.48706	29483931
19	ARS-BFGL-NGS-28940	48.49075	29518519
19	Hapmap40907-BTA-121178	48.49358	29545020
19	BTB-00745902	48.49799	29586445
19	ARS-BFGL-NGS-25991	48.50537	29655745
19	ARS-BFGL-NGS-279	48.50938	29693314
19	ARS-BFGL-NGS-22694	48.5132	29729113
19	ARS-BFGL-NGS-111861	48.51728	29767462
19	ARS-BFGL-NGS-4195	48.52203	29811964
19	BTA-44995-no-rs	48.52438	29834030
19	Hapmap42408-BTA-104726	48.53036	29890136
19	BTB-01570577	48.53516	29935171
19	Hapmap39407-BTA-45009	48.54196	29999030
19	ARS-BFGL-NGS-24127	48.54448	30022677
19	BTB-00746632	48.54774	30053256
19	ARS-BFGL-NGS-110692	48.55088	30082664
19	ARS-BFGL-BAC-33719	48.55364	30108582
19	ARS-BFGL-NGS-11488	48.56553	30220186
19	ARS-BFGL-NGS-8442	48.56881	30250870
19	ARS-BFGL-NGS-77790	48.57409	30300498
19	BTB-01316060	48.57837	30340650
19	ARS-BFGL-NGS-64718	48.58261	30380433
19	ARS-BFGL-NGS-101807	48.58611	30413271
19	BTB-01315978	48.58964	30446351
19	ARS-BFGL-NGS-71268	48.59313	30479118
19	Hapmap41613-BTA-67108	48.5978	30522900
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19	ARS-BFGL-NGS-31404	48.62555	30783257
19	ARS-BFGL-NGS-33419	48.63106	30834957
19	ARS-BFGL-NGS-43932	48.64713	30985781
19	ARS-BFGL-NGS-35919	48.65218	31033153
19	UA-IFASA-6043	48.6548	31057767
19	ARS-BFGL-NGS-42430	48.65798	31087581
19	ARS-BFGL-NGS-4573	48.66077	31113707
19	Hapmap48587-BTA-106969	48.66375	31141681
19	ARS-BFGL-NGS-39378	48.66875	31188595
19	ARS-BFGL-NGS-1327	48.67281	31226718
19	Hapmap50363-BTA-45061	48.67739	31269659
19	ARS-BFGL-NGS-106797	48.6815	31308183
19	ARS-BFGL-NGS-3870	48.68597	31350124
19	ARS-BFGL-NGS-36291	48.68938	31382204
19	ARS-BFGL-NGS-69851	48.70199	31500451
19	ARS-BFGL-NGS-119388	48.71178	31592333
19	Hapmap49181-BTA-45080	48.71669	31638453
19	ARS-BFGL-BAC-2384	48.72683	31733572

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19	ARS-BFGL-NGS-57209	48.73299	31791382
19	ARS-BFGL-NGS-39118	48.73835	31841674
19	ARS-BFGL-NGS-17405	48.74146	31870834
19	ARS-BFGL-NGS-76772	48.74337	31888735
19	ARS-BFGL-NGS-10018	48.74986	31949573
19	ARS-BFGL-NGS-70632	48.75564	32003877
19	ARS-BFGL-NGS-87461	48.76118	32055843
19	Hapmap59534-rs29022537	48.77111	32148966
19	Hapmap35910-SCAFFOLD37470_667	48.77351	32171476
19	ARS-BFGL-NGS-6071	48.79233	32348116
19	ARS-BFGL-NGS-103323	48.80008	32420816
19	ARS-BFGL-NGS-37850	48.8052	32468831
19	ARS-BFGL-NGS-29037	48.80797	32494825
19	UA-IFASA-9813	48.80945	32508700
19	Hapmap48228-BTA-122803	48.81228	32535308
19	ARS-BFGL-NGS-35640	48.81966	32604521
19	ARS-BFGL-NGS-72139	48.83428	32741678
19	ARS-BFGL-NGS-53672	48.83949	32790609
19	ARS-BFGL-NGS-11772	48.84171	32811401
19	ARS-BFGL-NGS-85516	48.84533	32845346
19	ARS-BFGL-NGS-13538	48.84769	32867556
19	ARS-BFGL-NGS-90275	48.85767	32961132
19	UA-IFASA-7101	48.86684	32994382
19	ARS-BFGL-NGS-40523	48.93781	33112218
19	Hapmap47628-BTA-45090	49.0022	33219146
19	UA-IFASA-8465	49.03843	33279300
19	ARS-BFGL-NGS-100358	49.06908	33356116
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19	ARS-BFGL-NGS-115387	49.1395	33533491
19	ARS-BFGL-NGS-116379	49.16536	33598629
19	ARS-BFGL-NGS-110037	49.1872	33653637
19	ARS-BFGL-NGS-60971	49.24147	33790356
19	ARS-BFGL-NGS-2912	49.24973	33811153
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19	Hapmap50966-BTA-45035	49.2831	33895220
19	ARS-BFGL-BAC-33744	49.30149	33941547
19	ARS-BFGL-NGS-15878	49.31685	33980233
19	ARS-BFGL-NGS-29171	49.34576	34053041
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19	ARS-BFGL-NGS-34632	49.39756	34183546
19	ARS-BFGL-BAC-36285	49.42044	34229311
19	ARS-BFGL-NGS-93931	49.43837	34264091
19	Hapmap32042-BTA-133010	49.46707	34319757
19	ARS-BFGL-NGS-60667	49.49377	34371541
19	BTA-45049-no-rs	49.52	34458465
19	Hapmap35517-SCAFFOLD30611_18172	50.32	34608965
19	ARS-BFGL-NGS-24557	50.32	34667494
19	ARS-BFGL-NGS-41066	50.32	34715747
19	ARS-BFGL-NGS-74800	50.32	34802725
19	ARS-BFGL-NGS-1097	50.32	34836416
19	ARS-BFGL-NGS-82204	50.62161	35003592
19	ARS-BFGL-NGS-118018	50.73116	35061702
19	ARS-BFGL-NGS-68563	50.80828	35102613
19	ARS-BFGL-NGS-109844	50.90986	35167831
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19	BTB-00747541	51.45708	35494190		
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19	ARS-BFGL-NGS-83644	51.58244	35585081		
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19	ARS-BFGL-NGS-86600	51.87009	35685507		
19	UA-IFASA-8237	51.95227	35714202		
19	ARS-BFGL-NGS-25445	52.01313	35735450		
19	ARS-BFGL-NGS-42120	52.07147	35755815		
19	UA-IFASA-7046	52.33704	35851319		
19	Hapmap42945-BTA-45128	52.40519	35886262		
19	ARS-BFGL-NGS-28386	52.47216	35920605		
19	ARS-BFGL-NGS-33927	52.56058	35965938		
19	Hapmap48343-BTA-45133	52.635	36004097		
19	Hapmap41268-BTA-45136	52.68707	36030793		
19	BTA-121181-no-rs	52.74062	36058250		
19	BTB-00749083	52.80148	36089458		
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19	BTB-00748733	53.33801	36364555		
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19	ARS-USMARC-Parent-DQ888312-rs29015945	53.47967	36437188		
19	ARS-BFGL-NGS-114136	53.53061	36463305		
19	ARS-BFGL-NGS-117124	53.70777	36554144		
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19	ARS-BFGL-NGS-75816	53.86479	36674728		
19	ARS-BFGL-NGS-106336	53.91424	36736261		
19	ARS-BFGL-NGS-5187	53.94447	36773867		
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19	ARS-BFGL-NGS-104611	53.98	36833660		
19	ARS-BFGL-NGS-6802	54.00114	36855208		
19	ARS-BFGL-NGS-80430	54.04906	36885660		
19	ARS-BFGL-NGS-72356	54.09555	36915204		
19	ARS-BFGL-NGS-10792	54.21695	36992354		
19	ARS-BFGL-NGS-106810	54.22	37035051		
19	ARS-BFGL-NGS-102492	54.22	37099312		
19	ARS-BFGL-NGS-2659	54.25869	37121888		
19	ARS-BFGL-NGS-6633	54.65879	37217989		
19	ARS-BFGL-NGS-19362	55.08657	37360469		
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19	UA-IFASA-6106	55.21275	37437821		
19	BTB-00749845	55.27478	37475843		
19	BTB-00749898	55.34716	37520214		
19	Hapmap58303-ss46526468	55.39987	37552530		
19	BTA-12760-no-rs	55.44935	37582865		
19	Hapmap53086-rs29025958	55.5205	37626478		
19	ARS-BFGL-NGS-105181	55.59264	37670702		
19	ARS-BFGL-NGS-111273	55.64037	37699961		
19	ARS-BFGL-NGS-24656	55.68505	37732974		
19	BTA-45324-no-rs	55.73385	37817322		
19	ARS-BFGL-NGS-116815	55.75044	37845999		
19	ARS-BFGL-NGS-35498	55.81355	37955066		
19	ARS-BFGL-NGS-112209	55.83639	37994541		
19	Hapmap39272-BTA-45334	55.85004	38018129		
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19	BTB-00750203	55.99518	38268968	
19	UA-IFASA-7175	56.02099	38313572	
19	ARS-BFGL-NGS-20183	56.05131	38365974	
19	Hapmap49617-BTA-45355	56.10952	38466576	
19	ARS-BFGL-NGS-61	56.14025	38519698	
19	ARS-BFGL-NGS-110844	56.15597	38546855	
19	ARS-BFGL-NGS-65339	56.182	38591843	
19	BTB-01941088	56.67254	38752116	
19	BTB-01453714	56.97279	38838591	
19	UA-IFASA-6016	57.2369	38977112	
19	BTB-00756676	57.37471	39049389	
19	UA-IFASA-5686	57.45836	39093260	
19	ARS-BFGL-NGS-91993	57.52204	39126656	
19	ARS-BFGL-NGS-27297	57.57216	39152945	
19	UA-IFASA-8986	57.66527	39201774	
19	ARS-BFGL-NGS-39315	57.73711	39239455	
19	ARS-BFGL-NGS-42004	57.79253	39268518	
19	UA-IFASA-5400	57.84981	39298558	
19	Hapmap34463-BES1_Contig469_977	58.06683		39412384
19	ARS-BFGL-NGS-38159	58.1467	39454273	
19	Hapmap54692-rs29024667	58.21828	39491813	
19	ARS-BFGL-NGS-78516	58.30691	39538298	
19	Hapmap57560-rs29010276	58.39546	39584738	
19	ARS-BFGL-NGS-75761	58.50502	39642202	
19	ARS-BFGL-NGS-88746	58.62701	39706180	
19	ARS-BFGL-NGS-10191	58.79416	39793839	
19	Hapmap51115-BTA-100287	58.95729	39879398	
19	ARS-BFGL-NGS-12655	59.02106	39908519	
19	Hapmap29069-BTA-45382	59.09723	39932816	
19	ARS-BFGL-NGS-119404	59.16984	39955980	
19	Hapmap47960-BTA-45498	59.30666	39999629	
19	BTB-00752956	59.43194	40039590	
19	ARS-BFGL-NGS-86744	59.64669	40108101	
19	BTA-45495-no-rs	59.77618	40149406	
19	ARS-BFGL-NGS-73677	60.13112	40216403	
19	ARS-BFGL-NGS-113385	60.48415	40261337	
19	ARS-BFGL-NGS-26417	60.71018	40290103	
19	ARS-BFGL-NGS-14754	61.03839	40362520	
19	Hapmap47855-BTA-119202	61.48923	40596108	
19	ARS-BFGL-NGS-57711	61.67513	40692429	
19	ARS-BFGL-NGS-32460	61.72107	40716234	
19	ARS-BFGL-NGS-2199	61.75443	40733516	
19	ARS-BFGL-NGS-118402	62.1291	40927644	
19	ARS-BFGL-NGS-32711	62.20719	40968107	
19	BTA-45471-no-rs	62.24869	40989607	
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19	BTB-00752386	62.38761	41061589	
19	ARS-BFGL-NGS-75238	62.52572	41135356	
19	ARS-BFGL-NGS-104828	62.54933	41156709	
19	ARS-BFGL-NGS-111180	62.64754	41245524	
19	BTB-00752230	62.75382	41341636	
19	ARS-BFGL-NGS-15554	62.78806	41372598	
19	Hapmap51235-BTA-45458	62.87141	41447971	
19	Hapmap54523-ss46526232	62.91662	41488860	
19	ARS-BFGL-NGS-25136	62.97388	41540643	
19	BTA-45452-no-rs	63.0069	41570503	
19	ARS-BFGL-NGS-116964	63.21581	41759425	

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19	Hapmap54629-rs29021711	63.29921	41834850	
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19	BTA-123276-no-rs	63.35505	41950232	
19	BTB-00860508	63.38175	42089455	
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19	ARS-BFGL-NGS-28121	63.40816	42227236	
19	Hapmap54661-rs29015754	63.41306	42252751	
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19	UA-IFASA-9304	63.4266	42323361	
19	ARS-BFGL-NGS-38784	63.44007	42393606	
19	ARS-BFGL-NGS-111247	63.44625	42425855	
19	ARS-BFGL-NGS-1032	63.45547	42473919	
19	ARS-BFGL-NGS-106239	63.4721	42560642	
19	ARS-BFGL-NGS-11174	63.48232	42613950	
19	ARS-BFGL-NGS-82930	63.48671	42636853	
19	Hapmap54526-ss46526755	63.49122	42660383	
19	Hapmap25044-BTA-136851	63.49821	42696815	
19	ARS-BFGL-NGS-58157	63.5024	42718662	
19	Hapmap26125-BTA-136847	63.50885	42752348	
19	UA-IFASA-3438	63.51352	42776646	
19	Hapmap56957-ss46526454	63.53772	42902904	
19	ARS-BFGL-NGS-18327	63.54193	42924825	
19	ARS-BFGL-NGS-34272	63.54671	42949792	
19	ARS-BFGL-NGS-28901	63.55191	42976859	
19	ARS-BFGL-NGS-111365	63.5694	43068079	
19	BTA-45515-no-rs	63.58	43170256	
19	ARS-BFGL-NGS-22409	63.63926	43295532	
19	Hapmap52998-ss46526120	63.63979	43296546	
19	ARS-BFGL-NGS-26101	63.68104	43376032	
19	ARS-BFGL-NGS-94100	63.71527	43441993	
19	BTA-108328-no-rs	64.12	43856171	
19	ARS-BFGL-NGS-20682	64.12	43904899	
19	UA-IFASA-5789	64.12	44033310	
19	ARS-BFGL-NGS-67567	64.18656	44062337	
19	BTB-00754892	64.41161	44137978	
19	BTB-00754877	64.50787	44174487	
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19	Hapmap48346-BTA-45564	64.62366	44240337	
19	BTB-00754797	64.67609	44270154	
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19	ARS-BFGL-BAC-32484	64.80798	44345164	
19	ARS-BFGL-NGS-28504	64.91023	44403315	
19	ARS-BFGL-NGS-113106	64.96	44431617	
19	ARS-BFGL-NGS-42872	65.08195	44500975	
19	ARS-BFGL-NGS-19774	65.16326	44547216	
19	BTA-45551-no-rs	65.25237	44597888	
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19	ARS-BFGL-NGS-116856	65.62216	44808197	
19	ARS-BFGL-BAC-32488	65.68471	44843763	
19	Hapmap44079-BTA-45543	65.78261	44899442	
19	ARS-BFGL-NGS-118124	65.84531	44935101	
19	ARS-BFGL-NGS-23574	65.88725	44958957	
19	ARS-BFGL-NGS-109970	65.93012	44983338	
19	ARS-BFGL-NGS-103549	65.96828	45005031	
19	BTB-00754259	66.03897	45059169	
19	ARS-BFGL-NGS-24479	66.1039	45109206	

19	ARS-BFGL-NGS-113693	66.12062	45122089
19	ARS-BFGL-NGS-73579	66.17531	45164235
19	ARS-BFGL-NGS-114231	66.23944	45213666
19	ARS-BFGL-NGS-32958	66.27217	45238884
19	ARS-BFGL-NGS-10986	66.3005	45260722
19	ARS-BFGL-NGS-116441	66.37466	45317867
19	Hapmap40434-BTA-45533	66.41608	45349793
19	BTB-00753901	66.45631	45380797
19	ARS-BFGL-NGS-111666	66.49677	45501147
19	ARS-BFGL-NGS-116240	66.51544	45560806
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19	ARS-BFGL-NGS-10952	66.53261	45615664
19	BTB-00753768	66.54134	45643563
19	ARS-BFGL-NGS-31468	66.55529	45688143
19	BTA-25043-no-rs	66.56085	45705901
19	ARS-BFGL-NGS-112936	66.5688	45731306
19	ARS-BFGL-NGS-36780	66.57545	45752543
19	ARS-BFGL-NGS-54889	66.58824	45793438
19	BTA-45668-no-rs	66.61076	45865387
19	BTB-00756923	66.62225	45902110
19	Hapmap42216-BTA-45665	66.63241	45934555
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19	ARS-BFGL-BAC-2364	66.65205	45997313
19	ARS-BFGL-BAC-32499	66.66687	46044695
19	UA-IFASA-6117	66.6766	46075773
19	ARS-BFGL-NGS-114067	66.73625	46117735
19	BTA-45655-no-rs	66.8895	46202442
19	ARS-BFGL-NGS-110481	67.05743	46279422
19	ARS-BFGL-NGS-102317	67.20275	46343001
19	UA-IFASA-8333	67.32404	46396064
19	UA-IFASA-8910	67.44785	46450230
19	ARS-BFGL-NGS-85003	67.51216	46478368
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19	ARS-BFGL-NGS-39129	67.79543	46602301
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19	ARS-BFGL-NGS-27303	68.41174	46941284
19	UA-IFASA-2616	68.44044	46986075
19	ARS-BFGL-NGS-116606	68.45588	47010170
19	BTB-01433589	68.48491	47055470
19	Hapmap41682-BTA-92866	68.4955	47071991
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19	ARS-BFGL-BAC-32504	68.55207	47160278
19	BTA-21339-no-rs	68.57799	47200732
19	Hapmap46356-BTA-21332	68.59091	47220896
19	ARS-BFGL-NGS-61800	68.62287	47270773
19	BTA-23253-no-rs	68.65663	47323459
19	Hapmap31529-BTA-18057	68.67474	47351738
19	Hapmap48676-BTA-18047	68.68925	47374363
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19	BTB-00755336	68.75153	47471569
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19	ARS-BFGL-NGS-114383	68.88794	47725481
19	ARS-BFGL-NGS-25983	68.89114	47747001
19	ARS-BFGL-NGS-117004	68.89882	47798697
19	UA-IFASA-8219	68.90531	47842356
19	ARS-BFGL-NGS-414	68.918	47927722
19	BTB-00755453	68.92986	48007453
19	Hapmap50968-BTA-45597	68.93628	48050643
19	Hapmap32556-BTA-133226	68.94	48135309

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19	UA-IFASA-6353	69.18954	48598256
19	UA-IFASA-6003	69.27216	48630588
19	ARS-BFGL-NGS-42746	69.37681	48671543
19	ARS-BFGL-NGS-78203	69.5505	48725899
19	ARS-BFGL-NGS-73805	69.85759	48761018
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19	ARS-BFGL-NGS-6791	70.40166	48933619
19	ARS-BFGL-NGS-43680	70.47922	48957541
19	UA-IFASA-5057	70.53	48988244
19	ARS-BFGL-NGS-107345	70.53	49013784
19	ARS-BFGL-NGS-98867	70.53	49037959
19	ARS-BFGL-NGS-46927	70.53	49069727
19	ARS-BFGL-NGS-3360	70.5722	49138567
19	ARS-BFGL-NGS-17108	70.60774	49173286
19	ARS-BFGL-NGS-118951	70.65543	49219863
19	ARS-BFGL-NGS-111142	70.68359	49247372
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19	UA-IFASA-7593	70.81493	49375655
19	UA-IFASA-7562	70.87893	49438164
19	Hapmap43270-BTA-45709	70.91557	49473960
19	ARS-BFGL-NGS-24588	70.95536	49512814
19	BTB-00757708	71.00335	49559687
19	ARS-BFGL-BAC-35672	71.07275	49627477
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19	Hapmap47630-BTA-45710	71.15125	49704150
19	ARS-BFGL-NGS-12401	71.17503	49727374
19	BTB-00758263	71.2009	49752648
19	ARS-BFGL-NGS-117746	71.23306	49784054
19	BTB-00758145	71.27663	49826620
19	Hapmap31094-BTA-133271	71.34886	49897165
19	UA-IFASA-5415	71.38257	49930085
19	Hapmap41874-BTA-45732	71.4	49972344
19	BTB-00758057	71.4	50006747
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19	ARS-BFGL-NGS-16680	71.52413	50087148
19	ARS-BFGL-NGS-1047	71.62885	50142080
19	ARS-BFGL-NGS-78927	71.72278	50191355
19	ARS-BFGL-NGS-31418	71.92215	50295947
19	ARS-BFGL-NGS-104238	71.99854	50336021
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19	ARS-BFGL-NGS-22742	72.11215	50395622
19	ARS-BFGL-NGS-77060	72.16091	50421201
19	ARS-BFGL-NGS-101611	72.21162	50447799
19	ARS-BFGL-NGS-116929	72.27097	50478941
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19	ARS-BFGL-NGS-81178	72.40086	50547082
19	Hapmap47962-BTA-45750	72.43274	50567992
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19	ARS-BFGL-NGS-68861	73.47406	51148913

19	BTA-45764-no-rs	73.56483	51191663
19	ARS-BFGL-NGS-21145	73.61525	51215413
19	ARS-BFGL-NGS-7934	73.72908	51269027
19	ARS-BFGL-NGS-39328	73.85164	51326750
19	ARS-BFGL-NGS-20701	73.94731	51371815
19	ARS-BFGL-NGS-39983	73.99799	51395684
19	ARS-BFGL-NGS-73980	74.04824	51419352
19	Hapmap42556-BTA-45815	74.10365	51445450
19	ARS-BFGL-NGS-15454	74.17381	51478494
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19	ARS-BFGL-NGS-104734	74.30072	51538272
19	ARS-BFGL-NGS-90673	74.39161	51581082
19	ARS-BFGL-NGS-117290	74.60195	51680150
19	ARS-BFGL-NGS-112313	74.71378	51767413
19	UA-IFASA-8764	74.74207	51796076
19	ARS-BFGL-NGS-47995	74.76189	51816153
19	ARS-BFGL-NGS-88163	74.78759	51842198
19	ARS-BFGL-NGS-38820	74.85683	51912354
19	ARS-BFGL-NGS-29662	74.8783	51934105
19	ARS-BFGL-NGS-19926	74.90006	51956162
19	ARS-BFGL-BAC-35684	74.95813	52014996
19	ARS-BFGL-NGS-22719	74.97889	52036030
19	ARS-BFGL-NGS-111298	75.03876	52096701
19	ARS-BFGL-NGS-68655	75.094	52152670
19	ARS-BFGL-NGS-44098	75.14502	52204367
19	ARS-BFGL-NGS-77313	75.17523	52234974
19	ARS-BFGL-NGS-105532	75.2039	52264019
19	ARS-BFGL-NGS-117951	75.23547	52296011
19	Hapmap39750-BTA-45775	75.27304	52334083
19	Hapmap42219-BTA-45770	75.33118	52392996
19	UA-IFASA-5300	75.37363	52436005
19	ARS-BFGL-NGS-112589	75.41887	52481850
19	BTB-00760167	75.4488	52512166
19	ARS-BFGL-NGS-52810	75.49368	52557638
19	ARS-BFGL-NGS-3745	75.53244	52596925
19	ARS-BFGL-NGS-1872	75.67276	52712797
19	ARS-BFGL-NGS-29115	75.71563	52740740
19	ARS-BFGL-NGS-116491	75.89124	52855192
19	BTB-01416331	75.9272	52878628
19	BTB-01416427	75.97791	52911677
19	ARS-BFGL-NGS-66978	76.20119	53038373
19	ARS-BFGL-BAC-27164	76.29134	53063966
19	ARS-BFGL-NGS-100910	76.80141	53208781
19	ARS-BFGL-NGS-11938	76.91104	53239903
19	UA-IFASA-8199	77.00829	53267510
19	ARS-BFGL-NGS-94605	77.23686	53332410
19	ARS-BFGL-NGS-96322	77.38171	53373533
19	ARS-BFGL-NGS-113729	77.50463	53408428
19	ARS-BFGL-NGS-110456	77.62186	53441712
19	ARS-BFGL-NGS-103691	77.7347	53473744
19	ARS-BFGL-NGS-39525	77.8261	53499697
19	ARS-BFGL-NGS-92268	77.96022	53537772
19	ARS-BFGL-NGS-28670	78.06995	53568928
19	ARS-BFGL-NGS-101995	78.20116	53606174
19	ARS-BFGL-NGS-83634	78.34473	53646934
19	UA-IFASA-5831	78.42056	53668468
19	BTA-45865-no-rs	78.51771	53696050
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19	ARS-BFGL-NGS-111977	78.79152	53773783

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19	ARS-BFGL-NGS-36573	78.9956	53831725	
19	ARS-BFGL-NGS-113058	79.35178	53932846	
19	UA-IFASA-7781	79.45837	53963109	
19	ARS-BFGL-NGS-114192	79.60546	54004867	
19	Hapmap53154-ss46527107	79.74527	54044562	
19	Hapmap40990-BTA-45853	79.86362	54078160	
19	ARS-BFGL-NGS-30893	79.999	54116596	
19	BTA-45845-no-rs	80.20015	54173703	
19	Hapmap54297-rs29013561	80.32	54239006	
19	ARS-BFGL-NGS-96997	80.32	54306610	
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19	ARS-BFGL-NGS-36342	80.70969	54446207	
19	ARS-BFGL-NGS-117622	80.86756	54488129	
19	ARS-BFGL-NGS-105050	80.98208	54518534	
19	ARS-BFGL-NGS-18146	81.06113	54539527	
19	ARS-BFGL-NGS-116952	81.11516	54560940	
19	ARS-BFGL-NGS-53345	81.1496	54586136	
19	ARS-BFGL-NGS-67396	81.23013	54645063	
19	ARS-BFGL-NGS-104263	81.27036	54674498	
19	Hapmap49620-BTA-45922	81.38232	54756421	
19	ARS-BFGL-NGS-16348	81.51296	54852003	
19	ARS-BFGL-NGS-25156	81.60634	54920324	
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19	ARS-BFGL-NGS-47707	81.71507	54999876	
19	ARS-BFGL-NGS-116713	81.74906	55024753	
19	ARS-BFGL-NGS-25599	81.81808	55075249	
19	ARS-BFGL-NGS-12595	81.85374	55101341	
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19	ARS-BFGL-NGS-118329	81.94543	55168433	
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19	Hapmap41778-BTA-14420	82.00568	55212508	
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19	ARS-BFGL-NGS-43623	82.05933	55257191	
19	Hapmap49184-BTA-45954	82.10107	55295443	
19	ARS-BFGL-NGS-38027	82.14137	55332376	
19	Hapmap29819-BTA-133320	82.19236	55379112	
19	ARS-BFGL-NGS-79637	82.2385	55421399	
19	ARS-BFGL-NGS-66213	82.27708	55456769	
19	ARS-BFGL-NGS-112332	82.35526	55479408	
19	ARS-BFGL-NGS-43864	82.64854	55527962	
19	ARS-BFGL-NGS-111549	82.77457	55548825	
19	ARS-BFGL-NGS-21220	82.90085	55569727	
19	ARS-BFGL-NGS-114189	83.02408	55590126	
19	ARS-BFGL-BAC-27792	83.1994	55619154	
19	BTB-00761187	83.36404	55646408	
19	ARS-BFGL-NGS-46832	83.46877	55721945	
19	ARS-BFGL-NGS-30781	83.5779	55765531	
19	ARS-BFGL-BAC-32937	84.15427	55871365	
19	ARS-BFGL-NGS-110875	84.51435	55937483	
19	ARS-BFGL-NGS-16504	84.67973	55967853	
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19	ARS-BFGL-NGS-88285	85.42237	56104218	
19	BTA-08388-no-rs	85.5785	56132884	
19	ARS-BFGL-NGS-52939	86.18603	56244442	
19	ARS-BFGL-NGS-46941	86.48904	56300082	

19	ARS-BFGL-NGS-112392	86.71301	56341205
19	Hapmap32044-BTA-133329	87.04031	56401302
19	UA-IFASA-5818	87.17529	56426090
19	ARS-BFGL-NGS-117484	87.55291	56495427
19	ARS-BFGL-NGS-114597	87.76123	56533680
19	ARS-BFGL-NGS-33925	87.89627	56558475
19	ARS-BFGL-NGS-50779	88.16145	56607168
19	ARS-BFGL-NGS-42405	88.28461	56629783
19	ARS-BFGL-NGS-89862	88.45226	56660567
19	ARS-BFGL-NGS-114414	88.64217	56695441
19	ARS-BFGL-NGS-22449	88.9651	56754737
19	BTB-00763650	89.0802	56775870
19	UA-IFASA-9790	89.30173	56816549
19	Hapmap48769-BTA-46039	89.54433	56861094
19	Hapmap42220-BTA-46040	89.70122	56889902
19	BTB-00762122	89.91074	56928376
19	ARS-BFGL-NGS-2792	90.05806	56955428
19	ARS-BFGL-NGS-2904	90.20887	56983121
19	ARS-BFGL-NGS-72723	90.26401	56993243
19	ARS-BFGL-BAC-33563	90.39534	57017362
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19	ARS-BFGL-BAC-36123	91.09	57149037
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19	ARS-BFGL-BAC-36754	91.09	57213764
19	ARS-BFGL-NGS-108886	91.11244	57293857
19	ARS-BFGL-NGS-31820	91.21143	57330068
19	ARS-BFGL-NGS-36727	91.3949	57397180
19	ARS-BFGL-NGS-39252	91.46278	57422012
19	ARS-BFGL-NGS-28678	91.55051	57454104
19	ARS-BFGL-NGS-44006	91.92992	57592897
19	ARS-BFGL-NGS-27636	92.10062	57655339
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19	ARS-BFGL-NGS-71052	92.26125	57714094
19	UA-IFASA-6080	92.35544	57748552
19	UA-IFASA-6546	92.41499	57770336
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19	ARS-BFGL-NGS-33946	92.58408	57832194
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19	UA-IFASA-7954	92.89585	57946240
19	ARS-BFGL-NGS-28163	92.99004	57980697
19	ARS-BFGL-NGS-29724	93.10949	58024390
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19	ARS-BFGL-NGS-31440	93.50072	58167507
19	ARS-BFGL-NGS-81995	93.55891	58188793
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19	ARS-BFGL-NGS-7285	93.78163	58270268
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19	ARS-BFGL-NGS-72084	95.08692	58551913
19	ARS-BFGL-NGS-22221	95.31863	58591027
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19	ARS-BFGL-NGS-3781	97.00489	58875702
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19	ARS-BFGL-NGS-116479	97.51165	58919657
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19	ARS-BFGL-NGS-12196	98.54141	59015012
19	ARS-BFGL-NGS-113245	98.77961	59068269
19	UA-IFASA-5934	99.13557	59147851
19	UA-IFASA-8385	99.71035	59276357
19	UA-IFASA-9045	99.82024	59300925
19	ARS-BFGL-NGS-100464	100.0884	59360869
19	UA-IFASA-6767	100.2349	59393627
19	BTA-121196-no-rs	100.448	59441263
19	ARS-BFGL-NGS-28682	100.619	59479510
19	ARS-BFGL-NGS-72354	100.8429	59529556
19	UA-IFASA-6929	101.5547	59688696
19	UA-IFASA-6210	101.6724	59715027
19	ARS-BFGL-NGS-31164	101.7934	59742080
19	UA-IFASA-5305	101.9856	59785045
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19	UA-IFASA-8477	102.6649	59936906
19	ARS-BFGL-NGS-22646	102.8766	59984238
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19	Hapmap32800-BTA-133450	103.484	60120044
19	ARS-BFGL-NGS-105092	103.6852	60165029
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19	Hapmap52490-rs29011071	104.0198	60247211
19	UA-IFASA-8231	104.0479	60274670
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19	ARS-BFGL-NGS-23292	104.7437	60444847
19	UA-IFASA-5967	104.8685	60485875
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19	ARS-BFGL-NGS-116261	107.8869	61478388
19	Hapmap43271-BTA-46356	107.9645	61503930
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19	UA-IFASA-8578	110.0134	62760617		
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19	UA-IFASA-8331	111.0389	63798259		
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20	ARS-BFGL-NGS-17392	2.028175	427798		
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20	Hapmap48367-BTA-50266	4.008455	770272	
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20	ARS-BFGL-NGS-55320	4.401995	829627	
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20	ARS-BFGL-NGS-100318	5.81	1314015	
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20	ARS-BFGL-NGS-25266	13.46903	4542536
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20	BTB-01988115	15.11379	4989460
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20	Hapmap42164-BTA-27725	15.86663	5173580
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20	BTB-00771151	27.52	8733386	
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20	Hapmap59077-rs29017458	27.63799	8861019
20	BTB-01482697	27.67482	8897859
20	Hapmap49640-BTA-51449	27.7054	8928445
20	BTA-51494-no-rs	27.77271	8995764
20	ARS-BFGL-NGS-70354	27.80507	9028131
20	BTA-51491-no-rs	27.8558	9078872
20	ARS-BFGL-BAC-32400	27.88097	9104042
20	ARS-BFGL-NGS-1031	27.91347	9136547
20	ARS-BFGL-NGS-105879	27.98851	9172033
20	ARS-BFGL-NGS-111051	28.12623	9230232
20	BTB-00772171	28.24037	9270217
20	ARS-BFGL-NGS-29791	28.4591	9344675
20	ARS-BFGL-NGS-117139	28.55674	9377909
20	ARS-BFGL-NGS-41186	28.66835	9415902
20	ARS-BFGL-NGS-29910	28.82343	9468693
20	ARS-BFGL-NGS-32753	28.88833	9490782
20	ARS-BFGL-BAC-31727	28.95853	9514679
20	ARS-BFGL-NGS-63158	29.06046	9549377
20	BTB-00772699	29.134	9574408
20	ARS-BFGL-NGS-114315	29.29141	9627990
20	BTA-91129-no-rs	29.35931	9651103
20	ARS-BFGL-NGS-109851	29.48976	9695509
20	Hapmap49641-BTA-51476	29.59839	9732487
20	ARS-BFGL-NGS-45127	30.14885	9919863
20	ARS-BFGL-NGS-100777	30.28317	9965585
20	Hapmap54493-rs29018712	30.35562	9990379
20	BTB-00770596	30.47272	10031239
20	BTB-00770572	30.58482	10070352
20	ARS-BFGL-NGS-102102	31.05348	10233876
20	Hapmap33691-BTA-89291	31.22975	10295382
20	BTB-00772795	31.631	10435385
20	BTB-00772821	31.7789	10486993
20	ARS-BFGL-NGS-40233	31.95241	10547532
20	ARS-BFGL-NGS-24657	32.31659	10738152
20	ARS-BFGL-NGS-58314	32.42977	10871544
20	ARS-BFGL-NGS-22729	32.46192	10909434
20	ARS-BFGL-NGS-71611	33.03575	11035444
20	ARS-BFGL-NGS-1901	33.42158	11070362
20	Hapmap54291-rs29013179	33.95316	11118472
20	Hapmap52814-rs29013174	34.12972	11139158
20	BTA-95187-no-rs	34.37389	11169481
20	ARS-BFGL-NGS-101506	34.58	11199953
20	ARS-BFGL-NGS-87256	34.58	11228271
20	BTB-01863228	34.58	11259370
20	ARS-BFGL-NGS-110086	34.58	11310896
20	Hapmap42375-BTA-96020	34.58	11339161
20	Hapmap33041-BTA-150746	34.58	11368271
20	Hapmap38450-BTA-96009	34.58	11401692
20	Hapmap46331-BTA-96019	34.58	11439729
20	BTB-01471673	34.58602	11475872
20	ARS-BFGL-NGS-21114	34.63659	11510149
20	BTB-01341896	34.69455	11549438
20	Hapmap40409-BTA-26097	34.73376	11576011
20	BTB-01341977	34.78349	11609716
20	Hapmap38888-BTA-26103	34.84922	11654271
20	ARS-BFGL-NGS-102921	34.9089	11694724
20	Hapmap43399-BTA-90695	34.94009	11715866
20	Hapmap59100-rs29024884	35.0206	11770435
20	BTB-01947189	35.07004	11803942

20	ARS-BFGL-NGS-84611	35.17998	11878462
20	ARS-BFGL-NGS-112994	35.25935	11932262
20	Hapmap52341-rs29025776	35.30131	11971234
20	ARS-BFGL-NGS-3276	35.34102	12017779
20	ARS-BFGL-NGS-78615	35.36191	12042259
20	Hapmap44603-BTA-51543	35.38265	12066568
20	ARS-BFGL-BAC-31736	35.40859	12096971
20	BTA-18484-no-rs	35.43302	12125605
20	BTA-118245-no-rs	35.46146	12158936
20	Hapmap42086-BTA-118249	35.49342	12196401
20	ARS-BFGL-NGS-26205	35.53624	12246582
20	BTA-51542-no-rs	35.55228	12265384
20	ARS-BFGL-NGS-44441	35.5998	12321078
20	ARS-BFGL-NGS-96668	35.61903	12343627
20	ARS-BFGL-NGS-25215	35.65003	12379956
20	BTB-01085507	35.68056	12415737
20	ARS-BFGL-NGS-12791	35.70504	12444428
20	Hapmap60678-rs29013189	35.7234	12465954
20	Hapmap57788-rs29012036	35.7415	12487161
20	ARS-BFGL-NGS-118253	36.18065	12652843
20	ARS-BFGL-NGS-47085	36.27102	12680036
20	ARS-BFGL-NGS-41271	36.3838	12713971
20	BTB-01085974	36.65807	12796496
20	BTB-01086039	36.80508	12879068
20	ARS-BFGL-NGS-32433	36.88203	12927850
20	ARS-BFGL-NGS-10787	36.9746	12986539
20	ARS-BFGL-NGS-6040	37.07164	13048063
20	UA-IFASA-2012	37.16307	13106033
20	BTB-01790846	37.4109	13263157
20	Hapmap43874-BTA-51544	37.56886	13363297
20	Hapmap47649-BTA-51546	37.73039	13688670
20	Hapmap32893-BTA-51547	37.7466	13731671
20	ARS-BFGL-NGS-19114	37.7719	13798821
20	ARS-BFGL-NGS-5085	37.78852	13842919
20	Hapmap39930-BTA-51548	37.80411	13884296
20	Hapmap41890-BTA-51549	37.81776	13920520
20	BTB-00774222	37.84916	14003845
20	BTA-10546-rs29016099	37.86644	14049708
20	BTA-51555-no-rs	37.87556	14073887
20	Hapmap50995-BTA-51556	37.93176	14223042
20	BTB-00774300	37.94556	14259661
20	BTB-00774398	37.97794	14345591
20	BTB-00774360	37.99747	14397421
20	BTB-01187029	38.20816	14956518
20	BTB-01300413	39.23099	15253542
20	ARS-BFGL-NGS-65527	39.33451	15291935
20	BTB-01300491	39.45082	15335075
20	BTA-19860-no-rs	39.5927	15381710
20	ARS-BFGL-NGS-40304	39.80221	15421045
20	UA-IFASA-9433	40.10906	15478658
20	ARS-BFGL-NGS-93664	40.25765	15506556
20	Hapmap42774-BTA-104770	40.37296	15528205
20	ARS-BFGL-NGS-13263	40.83012	15607144
20	ARS-BFGL-NGS-109474	41.32787	15651653
20	Hapmap42340-BTA-84327	41.59435	15691344
20	Hapmap50930-BTA-29913	41.67314	15749722
20	BTB-01236227	41.77394	15824409
20	ARS-BFGL-BAC-2445	41.83668	15870897
20	BTA-115852-no-rs	41.95486	15958456

20	Hapmap48105-BTA-86831	42.01021	15999470	
20	BTA-86837-no-rs	42.0714	16044811	
20	Hapmap48500-BTA-86838	42.10546	16070048	
20	BTB-01236791	42.17371	16120614	
20	ARS-BFGL-BAC-35577	42.3005	16214553	
20	Hapmap33520-BTA-161429	42.34069	16244333	
20	BTA-22872-no-rs	42.37511	16269833	
20	BTA-19381-no-rs	42.41398	16298635	
20	ARS-BFGL-NGS-116157	42.44258	16319831	
20	ARS-BFGL-NGS-59043	42.49288	16357095	
20	ARS-BFGL-NGS-20300	42.55405	16402419	
20	Hapmap55420-rs29013325	42.61663	16448784	
20	ARS-BFGL-NGS-10033	42.65153	16474647	
20	Hapmap48788-BTA-49979	42.75793	16553485	
20	ARS-BFGL-NGS-115829	43.03616	16581274	
20	Hapmap49631-BTA-49981	43.49979	16617066	
20	ARS-BFGL-NGS-114288	43.63007	16672270	
20	ARS-BFGL-NGS-119698	43.73245	16715651	
20	BTA-57175-no-rs	43.82998	16756975	
20	Hapmap57270-ss46526311	43.88564	16780563	
20	BTB-01773207	43.96347	16813539	
20	Hapmap26197-BTA-158977	44.05537	16852482	
20	BTA-89431-no-rs	44.10738	16874518	
20	Hapmap52424-rs29022982	44.15274	16893738	
20	Hapmap51603-BTA-51283	44.2075	16916943	
20	Hapmap29660-BTA-51301	44.26158	16939858	
20	ARS-BFGL-NGS-13160	44.35	17078414	
20	ARS-BFGL-NGS-42686	44.35	17110706	
20	BTB-00770436	44.35	17147673	
20	BTB-00770554	44.35	17175071	
20	Hapmap47909-BTA-29658	44.35	17203442	
20	ARS-BFGL-NGS-108015	44.35	17240999	
20	ARS-BFGL-NGS-101394	44.37207	17281716	
20	BTA-96644-no-rs	44.4249	17324265	
20	BTB-01478363	44.48222	17370437	
20	ARS-BFGL-NGS-1751	44.53437	17412441	
20	Hapmap47978-BTA-51560	44.59695	17462836	
20	BTB-00774490	44.78852	17617134	
20	ARS-BFGL-NGS-118554	44.94135	17710059	
20	ARS-BFGL-NGS-71000	45.0153	17742195	
20	BTB-00774522	45.18001	17813770	
20	ARS-USMARC-Parent-DQ888313-no-rs	45.23502	17837675	17837675
20	Hapmap34041-BES1_Contig298_838	45.23502	17837675	17837675
20	Hapmap42957-BTA-49949	45.34512	17885515	
20	BTA-49952-no-rs	45.4137	17915319	
20	BTB-00774644	45.48449	17946080	
20	BTB-00774670	45.57697	17986264	
20	BTB-00774691	45.6587	18021781	
20	BTA-49967-no-rs	45.81449	18099389	
20	ARS-BFGL-NGS-17910	45.85431	18123930	
20	ARS-BFGL-NGS-39954	45.88801	18144703	
20	Hapmap34413-BES11_Contig509_1565	45.94007	18176797	18176797
20	ARS-BFGL-NGS-30929	46.0732	18258856	
20	BTB-01133599	46.11731	18286048	
20	Hapmap60659-rs29015849	46.16092	18312925	
20	ARS-BFGL-NGS-24658	46.26125	18374772	
20	ARS-BFGL-BAC-33645	46.32452	18413770	
20	ARS-BFGL-BAC-33648	46.37119	18442538	
20	BTA-115951-no-rs	46.46273	18498959	

20	ARS-BFGL-NGS-25782	46.52572	18537789	
20	Hapmap50241-BTA-115966	46.58654	18575275	
20	BTA-115956-no-rs	46.67764	18631431	
20	BTA-115955-no-rs	46.72919	18663206	
20	BTB-01524822	46.82101	18719808	
20	ARS-BFGL-NGS-13902	46.86015	18743927	
20	BTB-01524870	46.90762	18773189	
20	ARS-BFGL-BAC-33650	46.97861	18816950	
20	ARS-BFGL-NGS-113376	47.03096	18849217	
20	Hapmap51681-BTA-110411	47.08487	18882445	
20	ARS-BFGL-NGS-4476	47.19449	18950015	
20	BTA-110421-no-rs	47.2347	18974803	
20	ARS-BFGL-NGS-25836	47.3412	19040448	
20	BTB-00775794	47.38534	19067657	
20	BTB-00775799	47.42754	19093668	
20	ARS-BFGL-BAC-33651	47.51176	19145580	
20	BTB-00775883	47.5794	19187276	
20	BTA-49983-no-rs	47.65092	19231361	
20	BTB-01501284	47.70185	19262754	
20	ARS-BFGL-NGS-65705	47.74805	19291232	
20	BTA-98656-no-rs	47.81604	19333137	
20	Hapmap60719-rs29027054	47.87505	19369507	
20	Hapmap50711-BTA-49985	48.12047	19520788	
20	ARS-BFGL-BAC-33654	48.22868	19587484	
20	Hapmap49632-BTA-49997	48.39185	19688068	
20	ARS-BFGL-NGS-18991	48.42845	19710624	
20	Hapmap39836-BTA-50001	48.50418	19757303	
20	Hapmap25816-BTA-134979	48.57166	19792908	
20	ARS-BFGL-NGS-89742	48.79126	19886708	
20	Hapmap28040-BTA-134983	48.86442	19917959	
20	Hapmap49633-BTA-50009	49.03596	19991233	
20	Hapmap46143-BTA-50023	49.26786	20090288	
20	ARS-BFGL-NGS-38813	49.65612	20256131	
20	Hapmap58153-rs29020764	49.97542	20392520	
20	ARS-BFGL-NGS-110667	50.0667	20431511	
20	Hapmap34321-BES11_Contig492_674	50.37842	20564659	
20	BTA-106532-no-rs	50.42696	20585395	
20	Hapmap34052-BES5_Contig242_347	50.84655	20764625	
20	Hapmap41764-BTA-118043	50.92168	20796717	
20	ARS-BFGL-NGS-1087	51.38	20925820	
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20	Hapmap48634-BTA-118065	51.38	21107750	
20	Hapmap54326-rs29009836	51.38	21160226	
20	Hapmap48199-BTA-118079	51.38	21213044	
20	ARS-BFGL-NGS-119721	51.38	21322442	
20	ARS-BFGL-NGS-113813	51.38	21343153	
20	BTA-26345-no-rs	51.38	21461148	
20	Hapmap26773-BTA-162886	51.38	21489104	
20	BTA-24401-no-rs	51.38	21571500	
20	Hapmap41681-BTA-92164	51.38	21606396	
20	Hapmap24308-BTA-161294	51.38	21650376	
20	ARS-BFGL-NGS-20706	51.38	21674110	
20	ARS-BFGL-NGS-28884	51.38	21764593	
20	Hapmap25866-BTA-152370	51.38	21796393	
20	ARS-BFGL-NGS-90295	51.38	21859742	
20	ARS-BFGL-NGS-110975	51.38	21938158	
20	ARS-BFGL-NGS-32306	51.38	21967184	
20	ARS-BFGL-NGS-34923	51.40065	22093001	
20	ARS-BFGL-NGS-5992	51.44066	22114399	



20	Hapmap39254-BTA-119282	51.53558	22165165
20	Hapmap43594-BTA-50052	52.009	22429967
20	ARS-BFGL-BAC-35584	52.18429	22542386
20	Hapmap46111-BTA-95461	52.23598	22575532
20	Hapmap46226-BTA-50067	52.27193	22598594
20	Hapmap50712-BTA-50068	52.33828	22641142
20	BTA-95455-no-rs	52.38385	22670366
20	ARS-BFGL-NGS-22775	52.42726	22698208
20	ARS-BFGL-NGS-52704	52.48524	22735390
20	ARS-BFGL-NGS-17077	52.75296	22907088
20	Hapmap49634-BTA-50049	52.87465	22985128
20	Hapmap54749-rs29013716	52.94449	23029920
20	ARS-BFGL-NGS-3231	52.97973	23052519
20	ARS-BFGL-NGS-5131	53.03152	23085736
20	ARS-BFGL-NGS-47493	53.15199	23162992
20	ARS-BFGL-NGS-118381	53.21161	23201226
20	ARS-BFGL-NGS-83738	53.34336	23286971
20	Hapmap57436-rs29017098	53.36478	23308640
20	Hapmap55628-rs29011426	53.38941	23333568
20	Hapmap47230-BTA-27297	53.64413	23593803
20	Hapmap48670-BTA-16740	53.72069	23717482
20	BTA-88011-no-rs	53.79842	23843046
20	BTA-88016-no-rs	53.81175	23864571
20	BTA-88001-no-rs	53.82513	23886196
20	Hapmap41393-BTA-96579	53.89052	23991821
20	Hapmap31141-BTA-150972	53.91505	24031442
20	BTA-96575-no-rs	53.93031	24056098
20	Hapmap46265-BTA-96586	53.94449	24079007
20	Hapmap54419-rs29027617	53.96251	24108117
20	ARS-BFGL-BAC-36190	54.00684	24179723
20	ARS-BFGL-NGS-102895	54.03724	24228836
20	BTA-59647-no-rs	54.06079	24266877
20	ARS-BFGL-NGS-22892	54.08028	24292502
20	BTA-80343-no-rs	54.22654	24445359
20	Hapmap53329-rs29023196	54.28262	24503970
20	Hapmap48627-BTA-116578	54.32106	24544146
20	ARS-BFGL-NGS-108866	54.36212	24587055
20	Hapmap57997-rs29022923	54.44176	24670287
20	ARS-BFGL-NGS-30073	54.46782	24697526
20	Hapmap41280-BTA-50090	54.51285	24744585
20	BTA-50087-no-rs	54.53533	24768085
20	Hapmap53904-rs29027565	54.56306	24797067
20	ARS-BFGL-NGS-46387	54.59598	24831468
20	ARS-BFGL-NGS-113565	54.62518	24861992
20	ARS-BFGL-NGS-18978	54.64708	24884879
20	ARS-BFGL-NGS-89404	54.67175	24910653
20	BTA-50084-no-rs	54.72911	24970604
20	Hapmap43278-BTA-50082	54.80396	25185940
20	Hapmap48366-BTA-50080	54.8059	25255282
20	ARS-BFGL-NGS-107555	54.80706	25296510
20	ARS-BFGL-NGS-38132	54.80796	25328769
20	ARS-BFGL-NGS-93510	54.81079	25429674
20	BTA-50076-no-rs	54.81175	25463818
20	Hapmap56230-rs29025779	54.81376	25535571
20	ARS-BFGL-NGS-42157	54.81549	25597446
20	ARS-BFGL-NGS-42028	54.81678	25643166
20	ARS-BFGL-NGS-110286	54.81807	25689084
20	ARS-BFGL-NGS-107265	54.82007	25760711
20	ARS-BFGL-BAC-36198	54.8226	25850728

20	ARS-BFGL-NGS-20700	54.82545	25952767	
20	ARS-BFGL-NGS-109046	54.82734	26019855	
20	ARS-BFGL-NGS-12319	54.85699	26330033	
20	Hapmap35442-SCAFFOLD130042_46213	54.8611	26362752	
20	ARS-BFGL-NGS-58033	54.86542	26397183	
20	ARS-BFGL-NGS-100888	54.8859	26560397	
20	ARS-BFGL-NGS-31361	54.89119	26602523	
20	Hapmap33504-BTA-154919	54.90762	26733496	
20	Hapmap39752-BTA-50132	54.93074	26917749	
20	BTA-50131-no-rs	54.93391	26942991	
20	Hapmap26391-BTA-135045	54.96248	27170720	
20	BTA-50152-no-rs	54.97337	27257473	
20	ARS-BFGL-NGS-1287	54.98142	27321645	
20	Hapmap43595-BTA-50145	54.99147	27401701	
20	BTA-50144-no-rs	54.99412	27422842	
20	ARS-BFGL-BAC-36217	55.00419	27503083	
20	Hapmap50988-BTA-50138	55.00775	27531454	
20	Hapmap51687-BTA-114691	55.02385	27659771	
20	ARS-BFGL-NGS-111823	55.03869	27778071	
20	Hapmap50009-BTA-50200	55.04565	27833489	
20	ARS-BFGL-BAC-36220	55.05758	27928617	
20	ARS-BFGL-NGS-17586	55.06283	27970417	
20	Hapmap51840-BTA-50193	55.06623	27997551	
20	BTA-50190-no-rs	55.076	28075415	
20	ARS-BFGL-NGS-54785	55.08522	28148900	
20	Hapmap39753-BTA-50189	55.08998	28186842	
20	Hapmap53513-rs29024419	55.09722	28244515	
20	Hapmap50008-BTA-50183	55.10411	28299434	
20	ARS-BFGL-NGS-31598	55.10791	28329720	
20	ARS-BFGL-BAC-27914	55.11225	28364284	
20	BTA-50178-no-rs	55.12201	28442075	
20	ARS-BFGL-BAC-27915	55.12467	28463308	
20	ARS-BFGL-NGS-70916	55.13408	28538251	
20	ARS-BFGL-NGS-28195	55.15022	28666912	
20	Hapmap51975-BTA-23912	55.16354	28773049	
20	BTB-01328684	55.17322	28850177	
20	BTB-01970209	55.17789	28887439	
20	BTB-01328740	55.18673	28957856	
20	BTB-00216618	55.20195	29079176	
20	BTA-90616-no-rs	55.21334	29169941	
20	BTB-01122480	55.22067	29228376	
20	ARS-BFGL-NGS-81252	55.22782	29285310	
20	ARS-BFGL-NGS-14378	55.23243	29322034	
20	BTB-01122716	55.23566	29347831	
20	ARS-BFGL-BAC-27930	55.23885	29373244	
20	BTB-01122883	55.24881	29452652	
20	BTA-90636-no-rs	55.26047	29545545	
20	Hapmap39361-BTA-90642	55.27797	29684981	
20	Hapmap32390-BTA-162568	55.28725	29758994	
20	Hapmap40699-BTA-25160	55.29058	29785475	
20	BTA-25164-no-rs	55.29608	29829314	
20	ARS-BFGL-NGS-96508	55.30487	29899438	
20	ARS-BFGL-BAC-27933	55.31045	29944792	
20	ARS-BFGL-NGS-16297	55.31575	29998448	
20	Hapmap48202-BTA-118947	55.38526	30079775	
20	ARS-BFGL-NGS-14616	55.43273	30116920	
20	BTB-01538332	55.49006	30161777	
20	ARS-BFGL-NGS-43307	55.51	30216498	
20	Hapmap43714-BTA-86903	55.51	30398960	

20	Hapmap46550-BTA-103548	55.96885	30928803
20	BTA-103550-no-rs	56.10117	31051302
20	Hapmap59121-rs29022980	56.13847	31085834
20	Hapmap54258-rs29018641	56.20889	31151035
20	UA-IFASA-9183	56.25652	31195125
20	BTA-50161-no-rs	56.36261	31293350
20	ARS-BFGL-NGS-114946	56.47046	31393193
20	BTA-50225-no-rs	56.52436	31443102
20	Hapmap56889-rs29016097	56.55228	31468943
20	BTA-84181-no-rs	56.64251	31552475
20	Hapmap49340-BTA-84175	56.65983	31568518
20	ARS-BFGL-NGS-60692	56.80692	31704692
20	ARS-BFGL-NGS-74334	56.85861	31752546
20	UA-IFASA-7069	57.05024	31933394
20	ARS-BFGL-NGS-118998	57.05658	32030332
20	ARS-BFGL-NGS-97963	57.05946	32074342
20	Hapmap47975-BTA-50226	57.07379	32293167
20	BTA-50232-no-rs	57.07819	32360404
20	ARS-BFGL-BAC-27941	57.08808	32511430
20	Hapmap39724-BTA-122305	57.11015	32848645
20	ARS-BFGL-NGS-89478	57.11208	32878037
20	ARS-BFGL-NGS-19906	57.11536	32928278
20	ARS-BFGL-NGS-18037	57.11811	32970200
20	BTB-01175381	57.12057	33007835
20	ARS-BFGL-NGS-97470	57.12325	33048635
20	ARS-BFGL-NGS-26979	57.13002	33152115
20	ARS-BFGL-BAC-27946	57.13472	33223973
20	BTA-113191-no-rs	57.13683	33256096
20	BTB-01220948	57.13874	33285352
20	Hapmap39811-BTA-122745	57.14048	33311925
20	BTB-01888575	57.14208	33336375
20	ARS-BFGL-NGS-95663	57.14409	33367057
20	Hapmap40070-BTA-50239	57.14687	33409629
20	ARS-BFGL-BAC-2469	57.14841	33433160
20	ARS-BFGL-NGS-76756	57.15222	33491273
20	ARS-BFGL-NGS-114772	57.15438	33524321
20	ARS-BFGL-NGS-26909	57.15615	33551316
20	ARS-BFGL-NGS-47808	57.15823	33583067
20	Hapmap44649-BTA-50236	57.16648	33709221
20	BTA-50235-no-rs	57.16796	33731804
20	ARS-BFGL-NGS-19878	57.1707	33773531
20	ARS-BFGL-NGS-13632	57.17585	33852227
20	Hapmap50583-BTA-117950	57.17891	33898976
20	Hapmap35679-SCAFFOLD165003_41555	57.18	34051201
20	BTB-00777615	57.18	34079970
20	BTB-00777678	57.18	34110282
20	ARS-BFGL-NGS-94020	57.18	34158865
20	Hapmap54938-rs29013720	57.27648	34241862
20	Hapmap50989-BTA-50241	57.30515	34264853
20	BTA-50244-no-rs	57.36647	34314015
20	ARS-BFGL-NGS-32425	57.39027	34343011
20	BTB-01417672	57.4095	34367833
20	ARS-BFGL-NGS-100724	57.42458	34387298
20	ARS-BFGL-NGS-116460	57.44712	34416396
20	BTA-50402-no-rs	57.47422	34451383
20	BTA-50400-no-rs	57.49241	34474873
20	BTB-00778960	57.51154	34499556
20	Hapmap26466-BTA-160199	57.5711	34576449
20	BTA-50386-no-rs	57.6417	34667591

20	BTA-15204-no-rs	57.68868	34728244	
20	Hapmap44088-BTA-50383	57.70057	34743583	
20	BTA-50376-no-rs	57.72691	34777599	
20	Hapmap57531-rs29013890	57.7576	34817221	
20	BTB-00778405	57.82332	34902057	
20	Hapmap47027-BTA-50369	57.84379	34928482	
20	ARS-BFGL-BAC-31754	57.88474	34981347	
20	BTB-00778209	57.90863	35012179	
20	Hapmap49488-BTA-121277	57.97836	35102203	
20	BTB-00778154	58.03024	35169183	
20	BTB-00778141	58.06417	35212987	
20	ARS-BFGL-NGS-34049	58.0921	35249040	
20	Hapmap51735-BTA-50264	58.15836	35334580	
20	ARS-BFGL-NGS-38482	58.32212	35479220	
20	BTB-00777979	58.41921	35511396	
20	ARS-BFGL-NGS-84088	58.54025	35557902	
20	BTA-50457-no-rs	58.63887	35595795	
20	Hapmap39660-BTA-50453	58.75248	35639448	
20	ARS-BFGL-NGS-34478	58.86944	35684389	
20	BTB-00779241	58.96285	35720280	
20	BTB-00780234	59.10645	35775455	
20	BTA-01966-rs29012919	59.20264	35812416	
20	Hapmap45498-BTA-50448	59.39076	35888849	
20	Hapmap53327-rs29023104	59.4311	35912418	
20	BTB-00779848	59.47994	35940949	
20	Hapmap52690-ss46526609	59.53515	35973199	
20	BTA-50420-no-rs	59.6972	36067867	
20	Hapmap40359-BTA-50418	59.7473	36097136	
20	BTB-01912756	59.84225	36152608	
20	ARS-BFGL-NGS-98321	59.99355	36240997	
20	ARS-BFGL-NGS-13317	60.07903	36290931	
20	ARS-BFGL-NGS-11884	60.11411	36311419	
20	BTA-50482-no-rs	60.15656	36336225	
20	ARS-BFGL-NGS-63936	60.20496	36364496	
20	ARS-BFGL-NGS-116806	60.35133	36450009	
20	ARS-BFGL-NGS-2860	60.4599	36513431	
20	ARS-BFGL-NGS-14031	60.54189	36561330	
20	ARS-USMARC-Parent-DQ990835-rs29012811	60.55764	36570529	
20	Hapmap36238-SCAFFOLD6393_4411	60.58983	36589334	
20	ARS-BFGL-NGS-37317	60.63102	36613401	
20	ARS-BFGL-NGS-22355	60.72291	36674340	
20	Hapmap51600-BTA-50467	60.73479	36710965	
20	BTA-115321-no-rs	60.77687	36840675	
20	BTB-00782061	60.81485	36957716	
20	ARS-BFGL-NGS-29468	60.85022	37066726	
20	BTB-00781976	60.86743	37119771	
20	Hapmap53150-ss46526297	60.88546	37173538	
20	Hapmap50011-BTA-50535	60.90871	37237425	
20	BTB-00782435	60.91856	37264477	
20	BTA-13793-rs29018751	60.93042	37297072	
20	BTA-50529-no-rs	60.94349	37333000	
20	BTB-01842107	60.95862	37374576	
20	Hapmap53888-rs29021190	60.97235	37412305	
20	Hapmap38412-BTA-50496	60.99266	37468100	
20	Hapmap53199-rs29014437	61.00366	37498331	
20	ARS-BFGL-NGS-111420	61.02391	37553988	
20	Hapmap57276-ss46526009	61.03944	37596667	
20	Hapmap42572-BTA-50505	61.05174	37630456	
20	BTA-50515-no-rs	61.085	37721846	

20	BTB-00781699	61.10519	37777328
20	ARS-BFGL-NGS-5430	61.12761	37838938
20	BTB-01565998	61.15559	37915840
20	Hapmap49835-BTA-104494	61.16424	37939597
20	Hapmap49011-BTA-107796	61.18925	38008347
20	ARS-BFGL-NGS-73952	61.20782	38059359
20	BTA-107791-no-rs	61.22582	38108826
20	BTA-107792-no-rs	61.25628	38192514
20	BTB-01189862	61.26755	38223488
20	BTB-02036760	61.40489	38252896
20	ARS-BFGL-NGS-38574	61.63274	38291179
20	ARS-BFGL-NGS-91540	61.94353	38397256
20	ARS-BFGL-BAC-33053	62.00893	38429784
20	BTB-01189967	62.05691	38453649
20	ARS-BFGL-NGS-8545	62.12423	38487130
20	BTB-01423653	62.30733	38578200
20	BTB-01423676	62.36394	38606353
20	BTB-01423688	62.50267	38675350
20	Hapmap30570-BTA-152778	62.67631	38761711
20	BTB-01163568	62.74151	38794140
20	BTB-01163526	62.7852	38815873
20	Hapmap42161-BTA-26363	62.93964	38892683
20	BTA-92644-no-rs	62.99633	38920878
20	ARS-BFGL-NGS-44135	63.07545	38960231
20	ARS-BFGL-NGS-17676	63.19157	39017985
20	BTB-01163430	63.24794	39046015
20	ARS-BFGL-NGS-13426	63.25137	39071965
20	ARS-BFGL-NGS-116981	63.25292	39100174
20	ARS-BFGL-NGS-109874	63.25809	39194261
20	ARS-BFGL-NGS-115190	63.25943	39218755
20	ARS-BFGL-NGS-111218	63.26072	39242226
20	ARS-BFGL-NGS-65409	63.26257	39275917
20	ARS-BFGL-NGS-93652	63.26533	39326031
20	BTA-110053-no-rs	63.26665	39350230
20	ARS-BFGL-BAC-34879	63.27065	39422828
20	ARS-BFGL-NGS-36606	63.27405	39484887
20	BTA-102910-no-rs	63.2754	39509383
20	Hapmap42401-BTA-102906	63.27701	39538676
20	BTB-01898603	63.27909	39576637
20	Hapmap42362-BTA-91666	63.28176	39625124
20	ARS-BFGL-NGS-14869	63.28539	39691234
20	Hapmap47541-BTA-22031	63.28736	39727100
20	ARS-BFGL-NGS-73590	63.28926	39761822
20	ARS-BFGL-NGS-55739	63.31318	39787788
20	ARS-BFGL-NGS-42798	63.42869	39850503
20	ARS-BFGL-BAC-35519	63.4799	39878312
20	BTA-50559-no-rs	63.52494	39902763
20	ARS-BFGL-NGS-117457	63.57042	39927454
20	ARS-BFGL-BAC-27243	63.61315	39950657
20	ARS-BFGL-NGS-103261	63.7131	40004925
20	ARS-BFGL-NGS-41834	63.77018	40035916
20	BTA-115200-no-rs	63.83148	40069198
20	ARS-BFGL-NGS-44763	63.88841	40100111
20	ARS-BFGL-NGS-20739	63.97159	40145270
20	ARS-BFGL-BAC-33668	64.35239	40301530
20	Hapmap40739-BTA-44919	64.4729	40329484
20	Hapmap39921-BTA-44918	64.70882	40384206
20	BTA-44917-no-rs	64.84162	40437346
20	BTA-122062-no-rs	64.94324	40483248

20	ARS-BFGL-NGS-56135	65.18603	40592909	
20	ARS-BFGL-NGS-26986	65.34968	40666822	
20	BTB-01410122	65.48602	40728408	
20	ARS-BFGL-NGS-53851	65.64353	40799554	
20	Hapmap47213-BTA-19985	65.71322	40831029	
20	ARS-BFGL-NGS-50922	65.76032	40852304	
20	BTA-110775-no-rs	65.82034	40879412	
20	ARS-BFGL-NGS-20488	66.00024	40960672	
20	ARS-BFGL-NGS-68808	66.05751	40986540	
20	ARS-BFGL-NGS-97267	66.12469	41016884	
20	ARS-BFGL-NGS-33592	66.18297	41043205	
20	ARS-BFGL-NGS-63070	66.24746	41072335	
20	BTB-00783355	66.3625	41124297	
20	Hapmap43599-BTA-50578	66.4228	41158406	
20	BTB-00783271	66.43769	41201777	
20	ARS-BFGL-NGS-78613	66.45077	41239866	
20	BTB-00783208	66.48238	41331921	
20	BTB-01913569	66.49487	41368301	
20	BTB-00918000	66.50955	41411040	
20	ARS-BFGL-NGS-20427	66.52193	41447098	
20	ARS-BFGL-NGS-97482	66.53263	41478242	
20	ARS-BFGL-BAC-33670	66.54852	41524528	
20	ARS-BFGL-BAC-33671	66.55	41576197	
20	Hapmap39837-BTA-50597	66.55	41596325	
20	ARS-BFGL-BAC-33672	66.55	41652239	
20	BTB-00783696	66.55	41705783	
20	ARS-BFGL-NGS-114097	66.55	41742228	
20	BTA-50605-no-rs	66.55	41855415	
20	ARS-BFGL-NGS-42065	66.55	41877599	
20	ARS-BFGL-NGS-87790	66.55	41914276	
20	ARS-BFGL-NGS-114295	66.6443	41936114	
20	BTB-00783964	67.29981	41985272	
20	Hapmap35044-BES8_Contig309_741		68.22165	42174731
20	Hapmap42236-BTA-50618	68.24976	42195463	
20	BTB-00784141	68.3539	42272251	
20	BTB-00784252	68.4564	42347831	
20	BTB-00784267	68.51624	42391962	
20	ARS-BFGL-NGS-50272	68.72544	42546224	
20	Hapmap38112-BTA-50631	68.80486	42604791	
20	BTB-01263010	69.17532	42779370	
20	BTA-120148-no-rs	69.23328	42804534	
20	BTB-01263022	69.30537	42835851	
20	Hapmap55998-rs29018913	69.38087	42868638	
20	ARS-BFGL-NGS-19469	69.4	42937884	
20	BTB-01263230	69.4	43004103	
20	BTB-01263250	69.4	43058673	
20	BTB-00784437	69.4	43191521	
20	ARS-BFGL-NGS-69971	69.4	43217538	
20	BTA-50635-no-rs	69.4	43243387	
20	BTB-00784317	69.4	43313427	
20	Hapmap42237-BTA-50641	69.40843	43343539	
20	BTB-00784470	69.42223	43381899	
20	BTB-02019272	69.43534	43418343	
20	Hapmap26424-BTA-149429	69.44784	43453092	
20	Hapmap51988-BTA-92052	69.46097	43489592	
20	ARS-BFGL-BAC-34877	69.4689	43511650	
20	BTA-92047-no-rs	69.47732	43535043	
20	ARS-BFGL-BAC-33692	69.4894	43568636	
20	BTB-01424374	69.51937	43651941	

20	ARS-BFGL-NGS-98332	69.5575	43757926	
20	Hapmap28978-BTA-149870	69.65928	44040879	
20	Hapmap50991-BTA-50645	70.15318	44296630	
20	Hapmap48794-BTA-50650	70.33	44381243	
20	BTB-00784875	70.33	44452488	
20	BTB-00785107	70.33	44473618	
20	Hapmap43281-BTA-50657	70.40013	44498518	
20	BTA-50669-no-rs	70.56966	44546300	
20	BTA-50676-no-rs	71.08079	44694564	
20	ARS-BFGL-BAC-27254	71.42616	44861949	
20	ARS-BFGL-NGS-35315	71.48852	44892168	
20	BTA-10117-rs29015683	71.53793	44916116	
20	ARS-BFGL-BAC-27249	71.60862	44950378	
20	BTB-01785140	71.69395	44991729	
20	Hapmap34646-BES7_Contig376_1523	71.75461	45021128	
20	BTB-02080594	71.81889	45052283	
20	ARS-BFGL-BAC-27247	71.88352	45083603	
20	Hapmap61037-rs29016327	71.93058	45106413	
20	Hapmap41127-BTA-101667	72.00967	45144743	
20	BTB-01873423	72.26101	45266553	
20	BTB-01942525	72.37815	45323325	
20	BTB-01424099	72.48653	45369517	
20	Hapmap51381-BTA-107547	73.45196	45641383	
20	ARS-BFGL-NGS-37203	73.49141	45677276	
20	Hapmap32803-BTA-135212	73.55431	45734507	
20	BTB-00785931	73.59893	45775101	
20	Hapmap43873-BTA-50695	73.64776	45819524	
20	ARS-BFGL-NGS-57668	73.72288	45887870	
20	BTA-119412-no-rs	73.78066	45940447	
20	BTB-01763089	73.80924	45966446	
20	Hapmap58446-rs29021863	73.85357	45994678	
20	BTB-00786292	73.95664	46035562	
20	ARS-USMARC-Parent-AY919868-rs29002211	74.03366	46066109	
20	ARS-BFGL-BAC-2450	74.07109	46080951	
20	BTA-11676-rs29017434	74.24355	46149354	
20	BTB-00786048	74.32076	46179978	
20	BTA-50683-no-rs	74.39633	46209952	
20	ARS-BFGL-BAC-32350	74.5534	46272249	
20	Hapmap43208-BTA-22429	74.6154	46296840	
20	BTA-50697-no-rs	74.74039	46346416	
20	BTA-50702-no-rs	74.88824	46405056	
20	ARS-BFGL-NGS-47270	75.12852	46500354	
20	Hapmap52273-rs29016521	75.26711	46555323	
20	BTB-01376475	75.37698	46598895	
20	Hapmap51592-BTA-41521	75.65544	46709345	
20	BTB-00041743	75.72115	46735404	
20	Hapmap39563-BTA-41519	75.75	46787179	
20	Hapmap35236-BES3_Contig374_812	75.75	46812147	
20	BTA-17135-no-rs	75.75	46834806	
20	BTA-41516-no-rs	75.75	46869946	
20	BTB-00041403	75.75	46900120	
20	Hapmap36599-SCAFFOLD120897_8821	75.75	46941646	
20	ARS-BFGL-BAC-32355	75.75	46993780	
20	BTA-41513-no-rs	75.75	47056652	
20	ARS-BFGL-BAC-32359	75.75	47096473	
20	Hapmap42141-BTA-22618	75.75	47169145	
20	BTB-01951543	75.75	47192877	
20	BTB-01905047	75.75	47226500	
20	ARS-BFGL-NGS-85369	75.75	47410881	

20	BTA-93424-no-rs	75.81838	47448017	
20	BTB-02100556	75.90452	47494075	
20	Hapmap24441-BTA-118024	75.99535	47542648	
20	BTA-93427-no-rs	76.04785	47570723	
20	ARS-BFGL-BAC-2454	76.22293	47664349	
20	BTB-01251603	76.29082	47700651	
20	BTA-27302-no-rs	76.38432	47750656	
20	ARS-BFGL-BAC-32364	76.50189	47813523	
20	Hapmap54884-rs29017180	76.55016	47839336	
20	BTB-00411617	76.64913	47892261	
20	BTB-00411452	76.70045	47919708	
20	Hapmap42701-BTA-84483	76.72931	47935136	
20	BTB-01164494	76.82935	47988633	
20	BTB-01164745	76.85629	48003042	
20	Hapmap47815-BTA-104066	77.06445	48114351	
20	BTB-01173240	77.15989	48165391	
20	BTB-01423141	77.30336	48242114	
20	Hapmap36108-SCAFFOLD20130_2652	77.44577		48318267
20	BTB-01423189	77.49876	48346601	
20	ARS-BFGL-NGS-100197	77.69344	48450702	
20	BTA-91483-no-rs	77.80565	48510710	
20	Hapmap36591-SCAFFOLD270550_10562	78.07578		48655169
20	BTA-50728-no-rs	78.21616	48749320	
20	Hapmap61109-rs29012067	78.2403	48772205	
20	ARS-BFGL-NGS-65952	78.29221	48821406	
20	ARS-BFGL-NGS-116076	78.37912	48903795	
20	ARS-BFGL-NGS-59274	78.41423	48937082	
20	Hapmap49201-BTA-50716	78.4595	48980000	
20	Hapmap46285-BTA-121281	78.61285	49029369	
20	ARS-BFGL-NGS-104898	78.71345	49053595	
20	ARS-BFGL-NGS-101678	78.95193	49111029	
20	BTA-50707-no-rs	79.11194	49149560	
20	BTA-50706-no-rs	79.28053	49190161	
20	Hapmap55468-rs29016426	79.53497	49251437	
20	BTB-01045774	79.90144	49339693	
20	ARS-BFGL-NGS-110089	80.25402	49424601	
20	BTB-01522825	80.79919	49631380	
20	ARS-BFGL-NGS-40296	80.84699	49703875	
20	ARS-BFGL-BAC-32381	80.89639	49778758	
20	Hapmap48608-BTA-111028	80.91743	49810675	
20	ARS-BFGL-NGS-87102	80.94952	49859323	
20	ARS-BFGL-NGS-115238	80.98695	49916075	
20	Hapmap42428-BTA-111118	81.01569	49959672	
20	Hapmap33054-BTA-156049	81.07524	50001881	
20	BTB-01529431	81.35624	50044555	
20	ARS-BFGL-NGS-31163	81.53132	50086666	
20	BTB-01529366	81.57911	50128719	
20	BTB-01930212	81.62099	50165576	
20	BTB-01298102	81.73424	50265235	
20	BTA-111516-no-rs	81.8277	50347483	
20	UA-IFASA-2994	81.8959	50407500	
20	Hapmap54729-rs29023630	81.937	50443672	
20	Hapmap59835-rs29021824	82.07468	50609613	
20	Hapmap50993-BTA-50781	82.20843	50676182	
20	Hapmap47647-BTA-50780	82.2944	50718981	
20	Hapmap42573-BTA-50774	82.44469	50793792	
20	ARS-BFGL-NGS-113078	82.51365	50828117	
20	ARS-BFGL-NGS-116034	82.62842	50885247	
20	Hapmap39571-BTA-50761	82.72841	50935019	



20	BTB-00787483	82.79838	50969848
20	Hapmap32669-BTA-50759	82.85426	50999239
20	BTB-00787417	82.90585	51044020
20	ARS-BFGL-NGS-111676	82.9403	51073910
20	ARS-BFGL-NGS-70574	82.99197	51118749
20	BTB-00787333	83.01993	51143018
20	ARS-BFGL-NGS-21662	83.05675	51174970
20	BTA-50740-no-rs	83.09196	51205535
20	BTB-00787258	83.13966	51246922
20	BTB-00787214	83.32827	51314617
20	Hapmap38413-BTA-50732	83.79087	51394928
20	BTB-00787104	84.08408	51449833
20	BTB-00787024	84.15189	51480878
20	Hapmap52570-rs29024651	84.2196	51511878
20	BTA-24296-no-rs	84.27618	51537785
20	BTA-19680-no-rs	84.34633	51569900
20	BTB-01474881	84.49452	51646555
20	BTB-01474917	84.60263	51685293
20	ARS-BFGL-NGS-79994	84.73519	51732785
20	ARS-BFGL-NGS-109938	84.89268	51787295
20	ARS-BFGL-BAC-34291	85.00167	51817120
20	BTB-01475042	85.10468	51845309
20	BTA-19096-no-rs	85.19679	51870516
20	BTB-01603303	85.45539	51940977
20	BTA-107123-no-rs	85.56728	51970252
20	BTB-01748945	85.72477	52011466
20	Hapmap56784-rs29012419	86.13712	52124199
20	BTB-01132138	86.2454	52183095
20	BTB-02040655	86.40761	52271324
20	Hapmap26426-BTA-150179	86.64217	52398914
20	ARS-BFGL-NGS-80731	86.88244	52529599
20	BTB-01216169	87.14971	52674980
20	BTA-112190-no-rs	87.26591	52738182
20	BTA-112164-no-rs	87.33742	52777079
20	ARS-BFGL-NGS-51112	87.40923	52816141
20	Hapmap42429-BTA-112171	87.45354	52840239
20	BTB-01216319	87.55	52897607
20	Hapmap48994-BTA-103486	87.55	52972281
20	BTB-01554875	87.55	53005335
20	BTA-103488-no-rs	87.55	53043151
20	Hapmap24428-BTA-112183	87.59618	53097198
20	Hapmap46554-BTA-114653	87.67268	53138554
20	ARS-BFGL-NGS-63553	87.89114	53256617
20	Hapmap53927-rs29025287	87.97	53303717
20	BTB-00787949	87.982	53333822
20	ARS-BFGL-NGS-100674	88.0547	53364573
20	UA-IFASA-4131	88.19569	53424203
20	Hapmap52456-rs29021984	88.25571	53449585
20	Hapmap40003-BTA-50839	88.33508	53483157
20	ARS-BFGL-NGS-21193	88.36007	53493724
20	BTB-00788976	88.42522	53521282
20	ARS-BFGL-NGS-95328	88.49198	53549515
20	ARS-BFGL-BAC-34293	88.5442	53571599
20	Hapmap46144-BTA-50802	88.62276	53604827
20	ARS-BFGL-NGS-114719	88.69427	53635068
20	BTA-50817-no-rs	88.78786	53674655
20	Hapmap51737-BTA-50812	88.98998	53757088
20	BTB-00788635	89.11823	53798275
20	ARS-BFGL-NGS-100519	89.29771	53855915

20	BTB-00788621	89.45428	53906202	
20	Hapmap34886-BES10_Contig414_1241	89.61474		53957730
20	BTB-01435010	89.72121	53991925	
20	BTB-01435027	89.91068	54052768	
20	BTA-116325-no-rs	89.93421	54060327	
20	ARS-BFGL-NGS-65037	90.21925	54151869	
20	Hapmap57243-rs29018206	90.3093	54180787	
20	BTB-00788444	90.38675	54205661	
20	BTA-92600-no-rs	90.49258	54239646	
20	BTB-02058060	90.77139	54329189	
20	ARS-BFGL-NGS-38569	90.79684	54337360	
20	Hapmap42355-BTA-89603	90.86195	54358268	
20	BTA-89598-no-rs	90.9283	54379575	
20	BTA-89573-no-rs	91.12744	54443531	
20	BTB-02043848	91.32742	54507750	
20	BTB-01128208	91.57243	54586441	
20	BTB-01128234	91.70897	54630287	
20	BTA-92605-no-rs	91.996	54722469	
20	BTA-92608-no-rs	92.09422	54754012	
20	ARS-BFGL-BAC-32379	92.19297	54785723	
20	BTA-17143-no-rs	92.5123	54888277	
20	BTB-01281598	92.75304	54965589	
20	ARS-BFGL-NGS-21992	93.01879	55083143	
20	BTB-01281500	93.08865	55130918	
20	ARS-BFGL-NGS-115498	93.24655	55238902	
20	Hapmap38444-BTA-88690	93.34576	55306754	
20	BTA-91632-no-rs	93.44144	55372193	
20	ARS-BFGL-BAC-36842	93.47556	55395520	
20	BTB-01583562	93.51883	55425112	
20	BTB-01705150	93.70836	55554731	
20	Hapmap35564-SCAFFOLD115952_737	93.75686		55585694
20	BTB-01304704	93.90673	55640082	
20	BTB-01304871	94.05309	55693187	
20	BTB-01642216	94.28532	55777460	
20	ARS-BFGL-NGS-58915	94.61135	55895768	
20	UA-IFASA-3102	94.73357	55940115	
20	Hapmap26756-BTA-159199	94.87866	55992767	
20	ARS-BFGL-NGS-55465	94.99509	56035015	
20	ARS-BFGL-NGS-61945	95.06934	56061960	
20	Hapmap39386-BTA-15643	95.14179	56088253	
20	Hapmap38939-BTA-15642	95.22604	56118820	
20	BTA-15641-no-rs	95.34444	56161783	
20	Hapmap43377-BTA-85612	95.43953	56196291	
20	ARS-BFGL-NGS-110428	95.70245	56291700	
20	ARS-BFGL-NGS-87595	95.80167	56327706	
20	ARS-BFGL-NGS-67171	95.86784	56351713	
20	BTB-01696413	96.04167	56414792	
20	ARS-BFGL-NGS-20692	96.10689	56438458	
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20	BTB-00789218	96.72484	56576417	
20	ARS-BFGL-NGS-46949	96.90198	56609171	
20	ARS-BFGL-NGS-115587	97.19097	56662612	
20	BTA-50848-no-rs	97.31509	56685563	
20	ARS-BFGL-NGS-38258	97.50883	56721394	
20	BTA-50852-no-rs	97.62649	56743148	
20	Hapmap49203-BTA-50855	97.87564	56789221	
20	BTA-91589-no-rs	98.06839	56824862	
20	BTA-50861-no-rs	98.29957	56867611	
20	Hapmap29985-BTA-135269	98.30781	56869138	

20	Hapmap51244-BTA-50863	98.58759	56920873
20	Hapmap44602-BTA-50865	98.63	56959161
20	ARS-BFGL-NGS-16795	98.63	57001030
20	Hapmap49204-BTA-50868	98.63	57041322
20	ARS-BFGL-BAC-32989	98.63	57124397
20	BTB-00790033	98.63	57177369
20	Hapmap60075-rs29020487	98.63	57233578
20	BTB-00790472	98.70102	57263704
20	ARS-BFGL-NGS-84494	98.82097	57301571
20	BTB-00790442	98.97316	57349620
20	BTB-00790451	99.04773	57373160
20	ARS-BFGL-NGS-34349	99.14494	57403850
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20	BTB-01460624	99.56845	57537552
20	BTB-01519082	99.66611	57568383
20	BTB-01519067	99.77297	57602121
20	ARS-BFGL-NGS-67623	99.88918	57638807
20	ARS-BFGL-NGS-76486	99.99057	57670816
20	ARS-BFGL-NGS-2750	100.1469	57720183
20	BTB-01941530	100.3424	57781878
20	BTA-19388-no-rs	100.4708	57822417
20	BTB-00132358	100.5446	57845716
20	ARS-BFGL-NGS-111474	100.6444	57877229
20	ARS-BFGL-BAC-2466	100.7697	57916773
20	Hapmap57688-rs29017235	100.9544	57975104
20	ARS-BFGL-NGS-90070	101.1203	58027482
20	ARS-BFGL-NGS-16728	101.2588	58071204
20	BTB-01368652	101.386	58111344
20	BTB-01368454	101.7122	58214328
20	BTB-01648514	101.7961	58240835
20	BTB-01648552	101.8719	58264762
20	Hapmap38462-BTA-110556	101.9601	58292591
20	ARS-BFGL-NGS-5313	102.076	58329179
20	ARS-BFGL-NGS-110091	102.18	58362004
20	ARS-BFGL-NGS-111931	102.3182	58405641
20	ARS-BFGL-NGS-96125	102.4562	58449212
20	ARS-BFGL-NGS-4112	102.7924	58555348
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20	BTB-00791781	103.0011	58621235
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20	ARS-BFGL-NGS-113022	103.3536	58732521
20	ARS-BFGL-NGS-7967	103.4362	58758614
20	Hapmap49205-BTA-50954	103.6081	58812864
20	ARS-BFGL-NGS-87307	103.6989	58841541
20	ARS-BFGL-NGS-16266	103.7729	58864888
20	ARS-BFGL-NGS-71622	103.9753	58928800
20	BTA-50951-no-rs	104.0456	58950986
20	ARS-BFGL-NGS-42567	104.1268	58976616
20	ARS-BFGL-NGS-21804	104.2541	59016802
20	ARS-BFGL-NGS-40952	104.3217	59038167
20	ARS-BFGL-NGS-64059	104.4248	59070717
20	ARS-BFGL-NGS-17045	104.5467	59109201
20	UA-IFASA-2293	104.698	59156949
20	ARS-BFGL-NGS-22216	104.7795	59182687
20	ARS-BFGL-NGS-57297	104.9479	59235834
20	ARS-BFGL-NGS-13826	105.1505	59299807
20	BTB-00791033	105.2861	59342623
20	ARS-BFGL-NGS-119072	105.5284	59419115
20	Hapmap44305-BTA-88458	105.5932	59439551

20	UA-IFASA-2314	105.8296	59514189
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20	BTB-00790682	106.1005	59599733
20	BTB-00790654	106.1896	59627852
20	ARS-BFGL-NGS-16087	106.3054	59664391
20	Hapmap42134-BTA-21475	106.8736	59843804
20	ARS-BFGL-NGS-55956	106.9919	59881131
20	BTB-01635990	107.1955	59945418
20	BTB-01636048	107.2722	59969623
20	Hapmap44332-BTA-103573	107.7152	60109496
20	ARS-BFGL-BAC-34302	107.9738	60191133
20	BTB-01340958	108.6383	60400902
20	BTB-01341053	108.7864	60447656
20	ARS-BFGL-NGS-97354	109.3943	60639566
20	BTB-01412010	109.5442	60686884
20	BTB-01412031	109.6575	60722662
20	Hapmap51375-BTA-105537	109.85	60783431
20	BTB-01580948	109.9591	60817895
20	ARS-BFGL-NGS-106134	110.0533	60847637
20	BTB-01456930	110.2261	60902173
20	BTB-01899482	110.3101	60928704
20	ARS-BFGL-BAC-34303	110.3934	60954990
20	ARS-BFGL-NGS-14979	110.5869	61016074
20	BTA-94914-no-rs	110.7044	61053166
20	ARS-BFGL-NGS-44355	111.0244	61154207
20	ARS-BFGL-NGS-20185	111.1406	61190884
20	ARS-BFGL-NGS-106785	111.25	61225432
20	BTB-00793885	111.5227	61311513
20	BTB-00793877	111.6001	61335948
20	ARS-BFGL-NGS-85952	111.702	61368103
20	ARS-BFGL-NGS-24454	111.9055	61432368
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20	BTA-13506-no-rs	112.237	61537001
20	BTB-00794279	112.3314	61566803
20	ARS-BFGL-NGS-15533	112.4661	61609342
20	BTB-00794397	112.6044	61653010
20	Hapmap43601-BTA-50976	112.7686	61704855
20	BTA-50981-no-rs	112.8853	61741696
20	ARS-BFGL-NGS-99194	112.959	61764939
20	ARS-BFGL-BAC-34915	113.079	61802831
20	BTB-00791947	113.1669	61830595
20	Hapmap40754-BTA-50982	113.2705	61863283
20	ARS-BFGL-NGS-2085	113.4036	61905305
20	ARS-BFGL-NGS-28540	113.5195	61941886
20	Hapmap54252-rs29018304	113.7416	62012025
20	ARS-BFGL-NGS-119910	113.8471	62045330
20	ARS-BFGL-NGS-111615	113.9505	62077963
20	ARS-BFGL-NGS-17110	114.0587	62112123
20	ARS-BFGL-NGS-38851	114.1813	62150836
20	BTB-00792841	114.3171	62193690
20	ARS-BFGL-NGS-1821	114.4886	62247834
20	Hapmap51601-BTA-50997	114.6443	62297004
20	ARS-BFGL-NGS-117915	114.7737	62337862
20	ARS-BFGL-NGS-100648	115.0128	62413336
20	ARS-BFGL-NGS-47683	115.2187	62478335
20	BTB-00793280	115.312	62507774
20	ARS-BFGL-NGS-69163	115.4072	62537847
20	ARS-BFGL-BAC-36223	115.4937	62565157
20	ARS-BFGL-NGS-33139	115.5832	62593419

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20	ARS-BFGL-NGS-81898	116.1993	62787912
20	BTA-18321-no-rs	116.2757	62812040
20	BTB-00796377	116.398	62850637
20	Hapmap39839-BTA-51097	116.5066	62884939
20	ARS-BFGL-NGS-113627	116.6023	62915139
20	BTB-00795900	116.78	62971248
20	ARS-BFGL-NGS-32105	117.0197	63046913
20	ARS-BFGL-NGS-17058	117.1363	63083721
20	Hapmap48796-BTA-51083	117.2526	63120443
20	ARS-BFGL-NGS-104203	117.458	63185279
20	ARS-BFGL-NGS-112417	117.5414	63211629
20	ARS-BFGL-NGS-37649	117.7063	63263674
20	BTB-01138585	117.8038	63294438
20	BTA-96271-no-rs	117.9235	63332241
20	ARS-BFGL-NGS-17585	117.999	63356077
20	BTB-01919542	118.0743	63379853
20	ARS-BFGL-BAC-36856	118.1609	63407185
20	ARS-BFGL-NGS-1814	118.2494	63435129
20	BTA-95661-no-rs	118.3367	63462702
20	ARS-BFGL-NGS-118815	118.4532	63499477
20	BTA-96274-no-rs	118.5177	63519841
20	ARS-BFGL-NGS-109457	118.6911	63574559
20	Hapmap57690-rs29017322	118.8055	63610705
20	Hapmap60255-rs29015880	118.8983	63639995
20	Hapmap40095-BTA-96280	119.0957	63702307
20	ARS-BFGL-NGS-110376	119.2129	63739292
20	Hapmap38992-BTA-96283	119.3913	63795631
20	ARS-BFGL-NGS-112425	119.5079	63832437
20	BTB-00022582	119.6121	63865337
20	Hapmap39838-BTA-51076	119.8041	63925955
20	ARS-BFGL-NGS-79911	119.9656	63976922
20	ARS-BFGL-NGS-22583	120.045	64002006
20	UA-IFASA-2048	120.1568	64037313
20	BTB-00795527	120.3053	64084187
20	ARS-BFGL-NGS-36042	120.4809	64139627
20	BTB-00795368	120.5762	64169690
20	ARS-BFGL-NGS-69670	120.6261	64185456
20	BTB-00795326	120.7649	64229275
20	ARS-BFGL-NGS-26451	120.8979	64271255
20	ARS-BFGL-NGS-71821	121.1147	64339709
20	ARS-BFGL-NGS-6953	121.3786	64423007
20	ARS-BFGL-BAC-36831	121.4578	64448031
20	BTB-00794669	121.5355	64472555
20	BTB-00794644	121.6134	64497151
20	BTB-00794487	121.8706	64578350
20	Hapmap53282-rs29015736	121.969	64609397
20	Hapmap43283-BTA-51056	122.0928	64648481
20	BTA-96045-no-rs	122.4295	64754802
20	ARS-BFGL-NGS-105980	122.566	64797892
20	Hapmap49387-BTA-96039	122.7884	64868102
20	ARS-BFGL-NGS-111832	122.8558	64889371
20	Hapmap40051-BTA-122171	122.9868	64930710
20	ARS-BFGL-BAC-36834	123.1764	64990576
20	BTA-23524-no-rs	123.4114	65064787
20	BTB-01327500	123.52	65099050
20	ARS-BFGL-NGS-40598	123.7148	65160565
20	Hapmap48665-BTA-16217	123.9054	65220743
20	ARS-BFGL-NGS-102633	124.0638	65270746

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20	Hapmap49039-BTA-116356	124.3772	65369686
20	ARS-BFGL-NGS-30119	124.4709	65399267
20	ARS-BFGL-NGS-112289	124.5926	65437677
20	ARS-BFGL-NGS-91119	124.6885	65467968
20	ARS-BFGL-NGS-117373	124.7862	65498794
20	Hapmap38839-BTA-51129	124.8798	65528353
20	ARS-BFGL-NGS-53579	125.0588	65584868
20	ARS-BFGL-NGS-38061	125.2253	65637410
20	ARS-BFGL-NGS-24736	125.3031	65661986
20	Hapmap51602-BTA-51147	125.3694	65682914
20	ARS-BFGL-BAC-36852	125.4727	65715521
20	ARS-BFGL-NGS-110804	125.5468	65738911
20	Hapmap39840-BTA-51148	125.6549	65773057
20	ARS-BFGL-NGS-111793	125.7915	65816187
20	ARS-BFGL-NGS-106447	125.926	65858630
20	ARS-BFGL-NGS-112054	126.0807	65907486
20	ARS-BFGL-NGS-3599	126.2428	65958659
20	ARS-BFGL-NGS-3962	126.6057	66073211
20	ARS-BFGL-NGS-119615	126.7077	66105424
20	Hapmap51245-BTA-51165	127.0086	66200409
20	BTA-51167-no-rs	127.105	66230840
20	ARS-BFGL-NGS-28789	127.4596	66342801
20	ARS-BFGL-NGS-103819	127.5531	66372306
20	BTA-51187-no-rs	127.6979	66418024
20	ARS-BFGL-NGS-41833	127.8924	66479425
20	ARS-BFGL-NGS-116860	128.0057	66515196
20	BTA-51196-no-rs	128.1185	66550796
20	ARS-BFGL-NGS-108150	128.2346	66587451
20	Hapmap39320-BTA-27332	128.3636	66628176
20	Hapmap47524-BTA-121298	128.4467	66654415
20	ARS-BFGL-NGS-118449	128.5847	66697971
20	ARS-BFGL-NGS-22607	128.6613	66722151
20	ARS-BFGL-NGS-108091	128.7892	66762538
20	BTB-01617409	129.3099	66926929
20	ARS-BFGL-NGS-104262	129.5738	67010255
20	ARS-BFGL-NGS-28691	129.7319	67060157
20	ARS-BFGL-NGS-7347	129.8289	67090770
20	ARS-BFGL-NGS-115794	129.9986	67144348
20	ARS-BFGL-NGS-18238	130.1236	67183813
20	ARS-BFGL-NGS-39177	130.458	67289400
20	ARS-BFGL-NGS-30641	131.0065	67462559
20	ARS-BFGL-NGS-75571	131.0941	67490207
20	ARS-BFGL-NGS-109799	131.2539	67540647
20	ARS-BFGL-NGS-103364	131.4609	67606012
20	ARS-BFGL-NGS-105958	131.618	67655585
20	BTB-01525417	131.754	67698518
20	ARS-BFGL-NGS-25567	131.9756	67768487
20	ARS-BFGL-NGS-93618	132.0465	67790887
20	Hapmap47030-BTA-51214	132.1387	67819983
20	BTB-00797414	132.2991	67870623
20	ARS-BFGL-NGS-6648	132.3916	67899804
20	ARS-BFGL-NGS-76333	132.4542	67919593
20	ARS-BFGL-NGS-15100	132.6564	67983409
20	ARS-BFGL-NGS-33801	132.9169	68065663
20	Hapmap39062-BTA-51230	132.991	68089046
20	ARS-BFGL-NGS-19159	133.1904	68152018
20	ARS-BFGL-NGS-102542	133.3357	68197886
20	Hapmap40514-BTA-28872	133.4383	68230269

20	ARS-BFGL-NGS-2865	133.5804	68275119
20	ARS-BFGL-NGS-30439	133.6553	68298787
20	BTA-22067-no-rs	133.9877	68403701
20	BTB-00798343	134.0737	68430871
20	Hapmap59029-rs29022509	134.1706	68461458
20	BTA-51240-no-rs	134.3221	68509279
20	Hapmap58642-rs29010253	134.3951	68532324
20	ARS-BFGL-NGS-77469	134.5163	68570594
20	BTB-00798071	134.6256	68605103
20	BTB-00799479	134.8682	68681680
20	ARS-BFGL-NGS-2463	134.97	68713825
20	ARS-BFGL-NGS-34321	135.1728	68777854
20	ARS-BFGL-NGS-77683	135.2932	68815875
20	ARS-BFGL-NGS-119310	135.3897	68846321
20	ARS-BFGL-NGS-43361	135.4973	68880282
20	Hapmap17508-rs29018213	135.5794	68906209
20	ARS-BFGL-NGS-103163	135.6644	68933034
20	ARS-BFGL-NGS-63132	135.7661	68965151
20	ARS-BFGL-NGS-4895	135.9408	69020321
20	BTB-00799191	136.022	69045941
20	ARS-BFGL-NGS-29478	136.1058	69072392
20	ARS-BFGL-NGS-29625	136.206	69104019
20	ARS-BFGL-NGS-17795	136.2873	69129690
20	ARS-BFGL-NGS-76979	136.4058	69167111
20	ARS-BFGL-NGS-116097	136.8028	69292436
20	BTB-00798805	136.8799	69316792
20	ARS-BFGL-NGS-14372	136.9656	69343823
20	ARS-BFGL-NGS-87287	137.065	69375211
20	Hapmap51842-BTA-51266	137.2392	69430215
20	BTB-00798633	137.3314	69459313
20	Hapmap51246-BTA-51263	137.4759	69504928
20	ARS-BFGL-NGS-118389	137.5494	69528142
20	ARS-BFGL-NGS-100393	137.6324	69554351
20	ARS-BFGL-NGS-53156	137.7394	69588130
20	Hapmap40393-BTA-112315	137.826	69615449
20	BTA-112312-no-rs	137.9002	69638890
20	ARS-BFGL-NGS-38032	137.9694	69660722
20	ARS-BFGL-NGS-113999	138.0648	69690852
20	ARS-BFGL-NGS-117598	138.1752	69725722
20	ARS-BFGL-NGS-80240	138.2497	69749218
20	ARS-BFGL-NGS-2486	138.3152	69769924
20	ARS-BFGL-NGS-16178	138.6162	69864942
20	ARS-BFGL-NGS-75636	138.7068	69893541
20	ARS-BFGL-NGS-114933	138.7793	69916426
20	ARS-BFGL-NGS-43508	138.8911	69951709
20	BTA-51296-no-rs	138.9619	69974084
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20	BTB-00799796	139.2436	70062996
20	ARS-BFGL-NGS-31350	139.3671	70101978
20	ARS-BFGL-NGS-116308	139.5043	70145293
20	ARS-BFGL-NGS-35549	139.7836	70233483
20	ARS-BFGL-NGS-113118	139.8598	70257532
20	ARS-BFGL-NGS-31306	139.9984	70301283
20	ARS-BFGL-NGS-100559	140.0996	70333233
20	ARS-BFGL-NGS-20437	140.1672	70354593
20	BTB-01666891	140.2696	70386902
20	BTA-15714-no-rs	140.4166	70433323
20	ARS-BFGL-NGS-55237	140.6309	70500978
20	ARS-BFGL-NGS-118472	140.7541	70539854

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20	BTB-01518094	141.1655	70669729	
20	ARS-BFGL-NGS-35229	141.2598	70699506	
20	ARS-BFGL-NGS-37036	141.3608	70731390	
20	ARS-BFGL-NGS-110278	141.627	70815434	
20	ARS-BFGL-NGS-98971	141.7121	70842294	
20	Hapmap51189-BTA-22279	141.795	70868462	
20	ARS-BFGL-NGS-33217	142.1703	70986977	
20	Hapmap44700-BTA-34998	142.3655	71048590	
20	BTB-00572445	142.4261	71067704	
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20	Hapmap39265-BTA-34996	142.5826	71117109	
20	ARS-BFGL-NGS-25016	142.671	71145037	
20	ARS-BFGL-BAC-31783	142.7597	71173030	
20	ARS-BFGL-NGS-70558	142.9787	71242163	
20	ARS-BFGL-NGS-60835	143.0701	71271028	
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21	BTB-01171141	0	828905	
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21	ARS-BFGL-NGS-53975	0	2151256	
21	Hapmap52072-rs29018920	0	2333804	
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21	ARS-BFGL-NGS-10260	0	2690162	
21	BTA-54983-no-rs	0	2710462	
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21	ARS-BFGL-NGS-60326	0	2833842	
21	Hapmap47036-BTA-52529	0	2862075	
21	ARS-BFGL-NGS-104603	0	2918184	
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21	ARS-BFGL-NGS-110123	0	3061993	
21	ARS-USMARC-Parent-DQ995976-no-rs	0	3088886	
21	ARS-BFGL-NGS-102425	0	3089789	
21	ARS-BFGL-NGS-54399	0	3245487	
21	ARS-BFGL-NGS-47451	0	3345232	
21	ARS-BFGL-NGS-113595	0	3498796	
21	ARS-BFGL-BAC-6029	0	3809287	
21	Hapmap40822-BTA-86024	0	3862716	
21	Hapmap46685-BTA-105714	0	4001747	
21	ARS-BFGL-NGS-118735	0	4048483	
21	ARS-BFGL-NGS-19115	0	4107948	
21	Hapmap57262-rs29023646	0	4145496	
21	ARS-BFGL-NGS-112210	0	4193189	
21	BTA-21042-no-rs	0	4240549	
21	Hapmap53880-rs29020517	0	4281411	



21	BTA-105737-no-rs	0	4441252
21	ARS-BFGL-NGS-36921	0	4482429
21	ARS-BFGL-BAC-30337	0	4558974
21	ARS-BFGL-NGS-18711	0	4638691
21	ARS-BFGL-NGS-12690	0	4671448
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21	Hapmap51927-BTA-105778	0	4790540
21	ARS-BFGL-NGS-5739	0	4825612
21	ARS-BFGL-NGS-30167	0	5087688
21	ARS-BFGL-NGS-115386	0	5293149
21	UA-IFASA-4137	0	5335492
21	Hapmap49208-BTA-52223	0	5358277
21	ARS-BFGL-NGS-114596	0	5378328
21	BTA-52244-no-rs	0	5478138
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21	ARS-BFGL-NGS-116765	0	5586515
21	ARS-BFGL-NGS-103847	0	5660254
21	ARS-BFGL-NGS-103866	0	5690539
21	ARS-BFGL-NGS-1498	0	5742682
21	Hapmap50019-BTA-52721	0	5892594
21	BTA-52775-no-rs	0	5944033
21	Hapmap43286-BTA-52790	0	5963823
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21	Hapmap32830-BTA-147827	0	6062201
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21	ARS-BFGL-NGS-116425	0	6208006
21	Hapmap40553-BTA-52668	0	6241052
21	Hapmap32084-BTA-147824	0	6278164
21	ARS-BFGL-NGS-14736	0	6378953
21	Hapmap50020-BTA-53134	0	6550276
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21	Hapmap50385-BTA-53111	0	7022598
21	ARS-BFGL-NGS-5568	0	7070882
21	BTA-53043-no-rs	0	7249456
21	ARS-BFGL-NGS-62108	0	7283843
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21	ARS-BFGL-NGS-23740	0	7337506
21	BTA-52945-no-rs	0	7369556
21	BTA-52906-no-rs	0	7491598
21	Hapmap44255-BTA-52888	0	7526820
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21	Hapmap52397-rs29025170	0	7694470
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21	Hapmap35256-BES3_Contig435_690	0		8204919
21	ARS-BFGL-NGS-23160	0	8231966	
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21	Hapmap39413-BTA-51926	0	8284178	
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21	ARS-BFGL-NGS-117655	0	8650559	
21	Hapmap41815-BTA-28879	0	8722457	
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21	ARS-BFGL-NGS-33260	0	8882276	
21	BTB-01106755	0	8927671	
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21	ARS-BFGL-NGS-118162	0	9064794	
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21	Hapmap53602-rs29011081	0	9318083	
21	ARS-BFGL-NGS-118623	0	9352833	
21	BTA-12468-no-rs	0	9375095	
21	Hapmap42495-BTA-28432	0	9412024	
21	Hapmap34392-BES8_Contig590_1341	0		9465131
21	BTA-76414-no-rs	0	9528223	
21	Hapmap47860-BTA-120557	0	9600154	
21	ARS-BFGL-NGS-21637	0	9687285	
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21	BTB-01988753	0	9784549	
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21	Hapmap40036-BTA-04610	0	9918220	
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21	BTB-01714719	0	10042947	
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21	BTB-00803496	0	10171581	
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21	Hapmap44092-BTA-53416	0	10234548	
21	BTB-01825397	0	10283705	
21	Hapmap41791-BTA-18742	0	10307506	
21	Hapmap53918-rs29022295	0	10380707	
21	BTB-00803276	0	10417947	
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21	Hapmap42245-BTA-53403	0	10565190	
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21	Hapmap7748-BTA-53394	0	10898700	
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21	ARS-BFGL-NGS-22971	0	11067328	
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21	Hapmap59117-rs29018906	0	11791560	
21	Hapmap55337-rs29009998	0	11981034	
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21	BTA-100458-no-rs	0	12408772	
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21	Hapmap41293-BTA-53465	0	12712258	
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21	BTA-53454-no-rs	0	12814108	
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21	BTA-53438-no-rs	0	13052680	
21	ARS-BFGL-NGS-11443	0	13110087	
21	BTA-53433-no-rs	0	13173337	
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21	BTA-19582-no-rs	1.30203	13691642	
21	ARS-BFGL-NGS-109184	1.457201	13735164	
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21	ARS-BFGL-NGS-59613	2.264585	13961617	
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21	ARS-BFGL-NGS-27377	2.854334	14127028	
21	ARS-BFGL-NGS-66073	3.258667	14240434	
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21	Hapmap30803-BTA-135661	3.486012	14304199	
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21	BTB-01258471	4.472028	14580754	
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21	ARS-BFGL-NGS-101083	4.734879	14654478	
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21	Hapmap39722-BTA-119704	5.255671	14800548	
21	ARS-BFGL-NGS-31918	5.666257	14915708	
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21	ARS-BFGL-NGS-26671	6.080693	15031948	
21	Hapmap50175-BTA-97987	6.265306	15091986	
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21	Hapmap48457-BTA-75505	6.710892	15265826	
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21	ARS-BFGL-NGS-21728	6.974477	15368661	
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21	BTA-56927-no-rs	7.239888	15543235	
21	ARS-BFGL-NGS-103854	7.27717	15563937	
21	Hapmap35433-SCAFFOLD255531_13677	7.344728		15601452
21	Hapmap35954-SCAFFOLD35134_27036	7.490966		15682657
21	ARS-BFGL-NGS-100582	7.53191	15705393	
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21	Hapmap31201-BTA-162197	8.373513	16172731	
21	Hapmap30598-BTA-161495	8.476781	16230075	
21	Hapmap43878-BTA-53506	8.54156	16272399	
21	ARS-BFGL-NGS-112137	8.556466	16341393	
21	BTA-53509-no-rs	9.499168	16504551	
21	BTA-53514-no-rs	9.725673	16539956	
21	Hapmap54222-rs29017183	10.19041	16612599	
21	Hapmap36030-SCAFFOLD230125_16583	10.36405		16639742
21	ARS-BFGL-NGS-57683	10.4781	16676281	
21	BTB-00804927	10.52466	16706433	
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21	ARS-BFGL-NGS-29380	10.60502	16758470	
21	Hapmap40495-BTA-121307	10.67523	16803930	
21	ARS-BFGL-NGS-5079	10.7694	16864906	
21	Hapmap46952-BTA-121310	10.80685	16889161	
21	Hapmap50023-BTA-53528	10.8876	16941444	
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21	BTB-00805391	11.0225	17028796	
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21	Hapmap47472-BTA-101981	11.23043	17163437	
21	ARS-BFGL-NGS-43622	11.2984	17207452	
21	ARS-BFGL-NGS-66848	11.42128	17287016	
21	ARS-BFGL-NGS-18787	11.45549	17309173	
21	ARS-BFGL-NGS-28017	11.52353	17353227	
21	ARS-BFGL-NGS-94521	11.55473	17373428	
21	Hapmap49643-BTA-51662	11.66908	17447471	
21	Hapmap26740-BTA-155993	11.79853	17531298	
21	ARS-BFGL-NGS-21819	11.85579	17568377	
21	BTB-01769597	12.07814	17712351	
21	ARS-BFGL-BAC-34984	12.12188	17740672	
21	ARS-BFGL-NGS-33483	12.20268	17792993	
21	Hapmap48372-BTA-51581	12.25411	17826296	
21	ARS-BFGL-NGS-88739	12.33735	17880194	
21	ARS-BFGL-NGS-22171	12.40964	17927006	
21	Hapmap40071-BTA-51569	12.54117	18012172	
21	ARS-BFGL-NGS-40066	12.64244	18077750	
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21	Hapmap55387-rs29016047	12.81788	18191354
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21	Hapmap38840-BTA-51603	13.38093	18372495
21	BTB-00806412	13.52343	18410412
21	Hapmap57137-rs29011525	13.69087	18454966
21	BTA-51614-no-rs	13.85781	18499389
21	Hapmap40756-BTA-51617	14.10087	18564065
21	ARS-BFGL-NGS-66604	15.28367	18878793
21	BTB-00806621	15.41068	18912588
21	ARS-BFGL-NGS-4238	15.54059	18947157
21	ARS-BFGL-NGS-33883	15.81923	19051950
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21	ARS-BFGL-NGS-100035	15.97004	19130853
21	Hapmap38505-BTA-51760	16.08901	19193100
21	ARS-BFGL-NGS-60170	16.16966	19235295
21	Hapmap47979-BTA-51767	16.23079	19267278
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21	ARS-BFGL-NGS-103603	16.31785	19312826
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21	ARS-BFGL-NGS-113201	16.44491	19379299
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21	Hapmap39714-BTA-111678	16.67003	19507919
21	ARS-BFGL-NGS-101940	16.75061	19571888
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21	BTB-00809334	16.85915	19658065
21	ARS-BFGL-NGS-22129	16.88988	19682458
21	BTA-51796-no-rs	16.91531	19702648
21	ARS-BFGL-NGS-27193	16.94387	19725319
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21	ARS-BFGL-NGS-40408	17.02855	19792546
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21	Hapmap47651-BTA-51810	17.26851	19983053
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21	ARS-BFGL-NGS-96981	17.38848	20078296
21	BTB-01712106	17.58265	20232444
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21	ARS-BFGL-NGS-5123	18.01393	20427894
21	ARS-BFGL-NGS-24595	18.13813	20477690
21	ARS-BFGL-NGS-94937	18.76416	20728681
21	Hapmap43604-BTA-51816	18.8174	20750026
21	Hapmap53721-rs29024386	18.86879	20770629
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21	ARS-BFGL-NGS-73374	19.16829	20890704
21	BTA-51814-no-rs	19.23139	20916004
21	BTB-00809722	19.3259	20953894
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21	BTA-51857-no-rs	19.48419	21017358
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21	ARS-BFGL-NGS-109350	19.73488	21117869
21	ARS-BFGL-NGS-40159	19.79661	21142616
21	Hapmap41563-BTA-51853	19.92024	21192182

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21	ARS-BFGL-NGS-28897	20.34535	21362621
21	ARS-BFGL-NGS-55347	20.54388	21442215
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21	ARS-BFGL-NGS-4300	20.91685	21703503
21	ARS-BFGL-NGS-2185	20.93574	21730828
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21	Hapmap50717-BTA-51691	21.36953	22358430
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21	ARS-BFGL-NGS-75707	21.4548	22481793
21	Hapmap48373-BTA-51706	21.48144	22520337
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21	ARS-BFGL-NGS-28785	22.88872	23755490
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21	BTB-01916852	23.20877	23976265
21	Hapmap44044-BTA-24268	23.73157	24278877
21	ARS-BFGL-NGS-66427	23.86168	24332945
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21	BTA-51901-no-rs	25.46	25585873		
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21	BTB-00812393	26.09315	26412160		
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21	BTA-51971-no-rs	26.97836	26715346		
21	ARS-BFGL-BAC-33968	27.04037	26736588		
21	BTA-51988-no-rs	27.16201	26797690		
21	ARS-BFGL-NGS-71636	27.278	26936862		
21	ARS-BFGL-NGS-36903	27.35677	26965607		
21	ARS-BFGL-NGS-14410	27.4998	27017806		
21	Hapmap52867-rs29023496	27.69176	27087855		
21	ARS-BFGL-NGS-57997	27.83889	27141548		
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21	Hapmap49382-BTA-93782	29.89856	27887072		

21	Hapmap39461-BTA-109898	29.93	27927781
21	Hapmap52079-rs29012330	29.93	27956825
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21	BTB-01496690	29.93859	28055227
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21	BTB-00800263	30.48093	28906490
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21	ARS-BFGL-NGS-101514	30.89926	29563115
21	ARS-BFGL-NGS-47816	30.92486	29603301
21	ARS-BFGL-NGS-102090	30.93844	29624611
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21	ARS-BFGL-NGS-11820	31.07404	29808549
21	BTB-01107683	31.16711	29893539
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21	Hapmap49946-BTA-29235	31.24656	29966098
21	BTB-01200389	31.28597	30007996
21	BTA-29249-no-rs	31.33015	30058397
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21	ARS-BFGL-NGS-61211	31.72344	30507065
21	ARS-BFGL-NGS-39921	31.74136	30527505
21	Hapmap53536-rs29018706	31.81194	30608016
21	ARS-BFGL-NGS-61681	31.90579	30671618
21	BTB-00800628	31.96732	30706521
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21	ARS-BFGL-NGS-5914	32.30259	30908358
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21	ARS-BFGL-BAC-34557	38.14526	33948119	
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21	ARS-BFGL-NGS-19706	40.10235	34898843	
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21	ARS-BFGL-NGS-21041	40.38562	35003844	
21	ARS-BFGL-NGS-103555	40.46087	35031735	

21	ARS-BFGL-NGS-58262	40.56705	35071096	
21	BTA-52133-no-rs	40.64683	35100669	
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21	ARS-BFGL-NGS-63656	41.25692	35326818	
21	ARS-BFGL-NGS-96633	41.37753	35371521	
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21	ARS-BFGL-BAC-29149	41.58424	35448143	
21	Hapmap45432-BTA-52127	41.64049	35468995	
21	ARS-BFGL-NGS-72462	41.71001	35494765	
21	Hapmap53974-rs29024107	41.78458	35522405	
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21	Hapmap41286-BTA-52147	42.54329	36341943	
21	ARS-BFGL-NGS-69232	42.58226	36379982	
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21	Hapmap38899-BTA-52139	42.69753	36492508	
21	Hapmap58716-rs29021182	42.76095	36554417	
21	Hapmap39377-BTA-113470	42.83182	36623599	
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21	BTB-01303893	43.77955	37026202	
21	BTB-01303877	43.89601	37065628	
21	BTB-01303847	43.96444	37088797	
21	BTB-01303836	44.03141	37111472	
21	BTB-01303828	44.12581	37143433	
21	BTB-01303818	44.39227	37233645	
21	BTB-01303761	44.56862	37293354	
21	Hapmap22752-BTA-151718	44.76126	37358573	
21	BTB-01501869	44.86695	37394355	
21	BTB-01501814	44.92062	37462320	
21	BTB-01815073	44.96594	37522232	
21	BTB-00817900	45.02037	37594193	
21	BTB-01960061	45.06691	37655733	
21	BTB-00817789	45.24237	37879697	
21	ARS-BFGL-NGS-119377	45.28403	37931511	
21	Hapmap50722-BTA-52191	45.32777	37985920	
21	BTB-00817579	45.359	38024759	
21	ARS-BFGL-NGS-100101	45.37916	38049838	
21	BTB-00817521	45.49841	38076668	

21	Hapmap53995-rs29024931	46.06044	38145870	
21	BTB-01938028	46.4126	38191506	
21	BTB-02072074	46.59306	38226290	
21	BTB-00817429	46.78337	38262972	
21	BTB-00817330	47.07781	38332114	
21	BTB-00817242	47.16	38465552	
21	BTB-01896293	47.16	38588425	
21	BTB-00818059	47.16539	38718696	
21	Hapmap61076-rs29023524	47.26358	38757269	
21	BTB-00818199	47.37804	38802228	
21	BTB-00818220	47.56647	38876245	
21	BTB-00818234	47.6776	38919896	
21	BTB-00818375	47.81779	38974965	
21	Hapmap48377-BTA-52225	47.88443	39001139	
21	Hapmap50996-BTA-52226	47.97556	39036938	
21	BTB-01781411	48.26059	39148898	
21	Hapmap33736-BTA-163613	48.35015	39184077	
21	BTB-00818487	48.46951	39230962	
21	BTB-00818514	48.58656	39276937	
21	ARS-BFGL-BAC-29197	49.07879	39470288	
21	ARS-BFGL-NGS-65709	49.14455	39496121	
21	BTA-19227-no-rs	49.28433	39551024	
21	ARS-BFGL-NGS-42955	49.4015	39597049	
21	BTB-01533089	49.70504	39716280	
21	Hapmap48988-BTA-101434	50.02982	39822586	
21	Hapmap35241-BES8_Contig395_800		50.4203	39911981
21	Hapmap48378-BTA-52242	50.99236	40042946	
21	BTB-00819187	51.1203	40072235	
21	BTB-00819102	51.42981	40143093	
21	BTB-00819017	51.84176	40237404	
21	BTB-00818878	52.28892	40381539	
21	BTB-00818821	52.35988	40408803	
21	BTB-00818786	52.49018	40458873	
21	BTB-00818669	52.60446	40502782	
21	BTA-52234-no-rs	52.68613	40534165	
21	BTA-52232-no-rs	52.74009	40554899	
21	Hapmap50229-BTA-113939	53.06937	40681426	
21	ARS-BFGL-NGS-105488	53.18003	40723942	
21	ARS-BFGL-BAC-29190	53.37332	40798215	
21	ARS-BFGL-NGS-96744	53.54599	40864565	
21	BTB-01383694	53.60707	40888031	
21	ARS-BFGL-NGS-102882	53.68891	40919482	
21	BTB-01383788	53.78339	40955783	
21	BTB-01561863	54.32179	41134760	
21	BTB-01561994	54.41013	41159644	
21	ARS-BFGL-BAC-29174	54.51186	41188230	
21	Hapmap27030-BTA-161084	54.71163	41244373	
21	ARS-BFGL-NGS-101247	54.81585	41273659	
21	ARS-BFGL-NGS-89680	54.9277	41305092	
21	BTA-116338-no-rs	55.10434	41354729	
21	BTA-01762-rs29012716	55.20599	41383298	
21	BTB-01240966	55.44887	41451547	
21	BTB-01240884	55.5667	41484660	
21	BTA-116337-no-rs	55.70435	41523341	
21	BTA-116336-no-rs	55.82632	41557614	
21	BTB-01240789	56.0158	41611760	
21	BTB-01240811	56.14249	41654555	
21	ARS-BFGL-NGS-82201	56.95595	41854714	
21	BTB-00819524	57.09809	41885781	

21	BTA-52339-no-rs	57.26248	41921714
21	ARS-BFGL-NGS-117336	57.38026	41947454
21	Hapmap44447-BTA-121316	57.59943	41995360
21	ARS-BFGL-NGS-43635	57.85572	42051380
21	Hapmap60703-rs29010376	58.02898	42089249
21	ARS-BFGL-NGS-7344	58.58306	42210356
21	BTA-96707-no-rs	58.88152	42275591
21	ARS-BFGL-NGS-10594	59.40136	42389217
21	Hapmap59970-rs29026939	59.51325	42413671
21	ARS-BFGL-BAC-29183	59.6365	42440611
21	Hapmap42487-BTA-26592	59.73629	42462426
21	ARS-BFGL-NGS-23813	60.0924	42540260
21	BTA-26609-no-rs	60.42677	42613342
21	BTB-01102651	60.55262	42640851
21	Hapmap49357-BTA-87614	60.68118	42668952
21	BTA-86128-no-rs	61.06461	42752759
21	ARS-BFGL-NGS-70743	61.26079	42795641
21	Hapmap41565-BTA-52250	61.44339	42835553
21	BTB-00819243	61.79765	42912983
21	ARS-BFGL-NGS-40594	62.38786	43050749
21	ARS-BFGL-NGS-105547	62.49045	43096903
21	ARS-BFGL-NGS-79488	62.53515	43117013
21	BTA-52343-no-rs	62.60305	43147563
21	ARS-BFGL-NGS-21789	62.73765	43208119
21	ARS-BFGL-NGS-6656	62.82322	43246618
21	Hapmap44324-BTA-97029	62.9508	43304015
21	ARS-BFGL-NGS-116131	63.00161	43326877
21	BTB-01483706	63.08458	43364207
21	BTA-97034-no-rs	63.16286	43399424
21	ARS-BFGL-BAC-5877	63.22845	43428936
21	Hapmap40917-BTA-16338	63.31596	43468307
21	BTB-01275062	63.37609	43495358
21	Hapmap50902-BTA-16342	63.43993	43524083
21	BTB-01275085	63.50143	43551754
21	BTB-01275103	63.56203	43579015
21	Hapmap49066-BTA-16330	63.63836	43613357
21	Hapmap43190-BTA-16332	63.71961	43649910
21	BTB-01635373	64.25012	43689960
21	BTB-01635323	64.25073	43718434
21	Hapmap47533-BTA-16340	64.25222	43787368
21	BTA-93497-no-rs	64.25299	43823284
21	BTB-01924219	64.25548	43938393
21	ARS-BFGL-NGS-116938	64.25917	44109756
21	BTB-00207396	64.29682	44155321
21	ARS-BFGL-BAC-29205	64.68789	44229968
21	Hapmap51104-BTA-98686	64.81624	44254467
21	ARS-BFGL-BAC-29200	64.93807	44277725
21	Hapmap55117-rs29020058	65.13747	44315783
21	ARS-BFGL-BAC-2553	65.98647	44477844
21	BTB-00207198	66.49416	44574752
21	BTB-00821090	66.66477	44607322
21	BTB-00820947	66.80492	44634072
21	Hapmap42961-BTA-52377	66.98447	44668345
21	ARS-BFGL-NGS-41594	67.49452	44765704
21	BTA-72257-no-rs	67.63597	44792706
21	ARS-BFGL-NGS-38887	67.86739	44836875
21	ARS-BFGL-BAC-29207	67.99973	44862140
21	ARS-BFGL-NGS-118121	68.23634	44907303
21	ARS-BFGL-BAC-29208	68.62743	44981955

21	ARS-BFGL-NGS-42945	68.82341	45019363
21	ARS-BFGL-NGS-110329	69.06725	45065907
21	BTB-00736348	69.22862	45096714
21	ARS-BFGL-NGS-103682	69.51757	45151868
21	BTB-00736108	69.74136	45194584
21	Hapmap57680-rs29016206	70.34872	45310522
21	ARS-BFGL-NGS-86276	70.46681	45333059
21	BTB-00821280	70.9097	45417602
21	ARS-BFGL-NGS-56625	71.2149	45475858
21	Hapmap43607-BTA-52380	72.49676	45720539
21	ARS-BFGL-NGS-107391	74.05684	46018333
21	ARS-BFGL-NGS-1764	74.17174	46040262
21	BTB-00821496	74.7229	46145471
21	ARS-BFGL-NGS-81614	76.20516	46428406
21	Hapmap45932-BTA-52396	76.89635	46560345
21	ARS-BFGL-NGS-111622	77.08721	46596778
21	BTB-00821654	77.2953	46636496
21	ARS-BFGL-NGS-24268	77.50477	46676480
21	Hapmap49646-BTA-52405	77.79274	46731447
21	ARS-BFGL-NGS-37402	78.11882	46793691
21	ARS-BFGL-NGS-22685	78.55553	46877052
21	ARS-BFGL-NGS-68622	78.80869	46925376
21	BTA-52458-no-rs	79.12059	46984914
21	ARS-BFGL-NGS-39835	79.44459	47046755
21	Hapmap47652-BTA-52437	80.293	47208703
21	ARS-BFGL-NGS-29730	80.6319	47273394
21	ARS-BFGL-NGS-19437	81.29894	47400719
21	Hapmap50017-BTA-52441	81.73997	47484905
21	ARS-BFGL-NGS-4716	82.17503	47567948
21	BTB-00822176	82.6293	47654659
21	BTB-01805581	82.74195	47676165
21	Hapmap49824-BTA-09376	83.11166	47746735
21	Hapmap47034-BTA-52445	83.27927	47778730
21	ARS-BFGL-NGS-37945	83.73299	47865334
21	BTB-01480455	83.92738	47902442
21	BTB-01480441	84.06237	47928210
21	BTB-01480359	84.24682	47963417
21	BTB-01480099	84.48692	48009246
21	BTA-93299-no-rs	84.76724	48062756
21	BTB-01479918	84.95752	48099076
21	ARS-BFGL-NGS-119896	85.15657	48137074
21	BTA-96922-no-rs	86.66565	48425129
21	ARS-BFGL-NGS-87069	86.96919	48483069
21	BTA-96927-no-rs	87.10997	48509940
21	ARS-BFGL-NGS-73381	87.29868	48545958
21	BTB-01828569	87.46818	48578315
21	Hapmap45823-BTA-19038	87.66107	48615135
21	BTA-87826-no-rs	87.88156	48657222
21	BTB-01686668	88.03708	48686907
21	BTA-113430-no-rs	88.25524	48728554
21	ARS-BFGL-NGS-38117	88.36977	48750411
21	BTB-01605223	88.51762	48778636
21	Hapmap42788-BTA-107220	88.67149	48808007
21	Hapmap29405-BTA-159679	89.03999	48878349
21	BTB-00823211	89.21328	48911422
21	BTA-52470-no-rs	89.35947	48939326
21	ARS-BFGL-BAC-29227	89.56755	48979048
21	ARS-BFGL-NGS-117837	90.42695	49143093
21	BTB-00822762	90.54348	49165337

21	BTA-52462-no-rs	90.8774	49229075
21	Hapmap49209-BTA-52459	90.94851	49242650
21	Hapmap48703-BTA-27318	91.20167	49290972
21	BTB-00822497	91.33765	49316928
21	ARS-BFGL-NGS-112131	91.43769	49336022
21	Hapmap50165-BTA-94963	91.57746	49362705
21	BTB-01639450	91.97953	49439452
21	Hapmap49647-BTA-52454	92.21945	49485249
21	BTA-52446-no-rs	92.46999	49533074
21	Hapmap32051-BTA-136019	92.94232	49623230
21	UA-IFASA-6258	93.063	49646269
21	ARS-BFGL-NGS-93196	93.16282	49665319
21	BTB-00823669	93.38107	49706980
21	BTB-00823633	93.87228	49800743
21	ARS-BFGL-BAC-34612	94.12846	49849644
21	BTB-00823583	94.33594	49889250
21	ARS-BFGL-NGS-87294	94.47609	49915999
21	ARS-BFGL-BAC-34613	94.65025	49949243
21	Hapmap52435-rs29012295	94.79958	49977747
21	BTB-01664247	95.49519	50110530
21	Hapmap53857-rs29019381	95.99535	50205999
21	ARS-BFGL-NGS-2684	96.1964	50244378
21	BTB-00482098	96.40645	50284474
21	ARS-BFGL-NGS-14855	96.63143	50327416
21	BTB-00481797	96.84622	50368417
21	Hapmap44514-BTA-110408	97.01422	50400485
21	Hapmap59697-rs29026956	97.17302	50430797
21	ARS-BFGL-NGS-89488	97.99692	50588065
21	BTB-01452384	98.20178	50627168
21	Hapmap23389-BTA-116094	98.57079	50697604
21	BTB-01720309	98.80293	50741916
21	ARS-BFGL-NGS-93512	99.43195	50861985
21	ARS-BFGL-NGS-17168	99.69435	50912071
21	BTB-01539250	99.99445	50969356
21	ARS-BFGL-NGS-110784	100.3195	51031411
21	Hapmap32984-BTA-113902	100.8804	51138460
21	BTB-01690594	101.0796	51176485
21	Hapmap24313-BTA-29957	101.6999	51294895
21	BTB-01375511	102.0282	51357564
21	BTB-01375524	102.5708	51461130
21	BTB-01172090	102.7495	51495235
21	ARS-BFGL-NGS-62269	102.9251	51528760
21	BTB-01172066	103.0698	51556381
21	Hapmap40156-BTA-103844	103.9987	51733686
21	BTB-01171793	104.52	51833198
21	BTB-01749774	104.6455	51857151
21	ARS-BFGL-NGS-118513	105.8736	52091583
21	ARS-BFGL-NGS-26517	106.123	52139183
21	ARS-BFGL-NGS-67889	106.6464	52239094
21	UA-IFASA-8732	106.825	52273180
21	BTB-01644606	107.1509	52335388
21	ARS-BFGL-NGS-115324	107.4156	52385916
21	ARS-BFGL-NGS-118526	107.5392	52409515
21	Hapmap50580-BTA-116485	107.8927	52476997
21	ARS-BFGL-BAC-34627	108.1742	52530715
21	Hapmap38467-BTA-119784	108.301	52554932
21	BTB-01767605	108.4515	52583651
21	Hapmap38656-BTA-117256	108.5825	52608666
21	BTA-116478-no-rs	109.0747	52702617

21	BTA-28244-no-rs	109.2419	52734525	
21	ARS-BFGL-NGS-83971	109.436	52771584	
21	BTA-116497-no-rs	109.6712	52816464	
21	BTA-116483-no-rs	109.9663	52872801	
21	ARS-BFGL-NGS-90862	110.1904	52915581	
21	ARS-BFGL-NGS-44156	110.438	52962847	
21	BTB-02006806	110.6219	52997950	
21	BTA-98559-no-rs	110.9281	53056400	
21	ARS-BFGL-BAC-35190	111.1145	53091967	
21	BTB-00648868	111.937	53248982	
21	Hapmap24402-BTA-131035	112.0401	53268658	
21	BTB-02025540	112.5664	53369113	
21	BTB-00649119	112.9056	53433865	
21	BTB-00649131	113.0287	53457352	
21	BTB-00649148	113.2539	53500339	
21	BTB-00649157	113.384	53525183	
21	ARS-BFGL-NGS-33035	113.527	53552467	
21	BTB-01497825	113.7962	53603868	
21	BTB-01814935	113.9359	53630520	
21	ARS-BFGL-NGS-65313	114.0834	53658686	
21	BTB-00824019	114.5965	53756629	
21	ARS-BFGL-NGS-19027	114.7151	53779256	
21	BTB-00824063	115.1159	53855758	
21	Hapmap28352-BTA-136027	115.5871	53945721	
21	ARS-BFGL-NGS-110093	115.7446	53975772	
21	ARS-BFGL-NGS-111163	116.1656	54056137	
21	BTB-01046586	116.8497	54186710	
21	ARS-BFGL-NGS-46793	116.9644	54208626	
21	ARS-BFGL-NGS-107562	117.1684	54247557	
21	BTB-01392919	117.3195	54276389	
21	BTB-01392802	117.574	54324980	
21	ARS-BFGL-NGS-104054	118.7701	54553298	
21	ARS-BFGL-NGS-32443	119.3979	54673135	
21	BTA-91173-no-rs	119.7769	54745471	
21	Hapmap50255-BTA-119714	119.974	54783091	
21	Hapmap51688-BTA-115008	120.4776	54879224	
21	BTA-106060-no-rs	120.711	54923774	
21	Hapmap51131-BTA-106058	120.9255	54964720	
21	ARS-BFGL-NGS-22156	121.4235	55059767	
21	ARS-BFGL-NGS-43284	121.615	55096333	
21	BTB-00824825	122.3844	55243199	
21	BTA-52628-no-rs	122.5553	55275824	
21	ARS-BFGL-NGS-105670	122.9367	55348624	
21	ARS-BFGL-NGS-25138	123.0767	55375347	
21	Hapmap26512-BTA-52638	123.6432	55483469	
21	BTA-98184-no-rs	123.8981	55532125	
21	Hapmap39755-BTA-52639	124.1185	55574197	
21	ARS-BFGL-NGS-82324	124.3451	55617452	
21	ARS-BFGL-NGS-60795	124.8445	55712777	
21	Hapmap36523-SCAFFOLD141316_865		125.0657	55755010
21	Hapmap34575-BES5_Contig592_1191		125.4815	55834366
21	ARS-BFGL-NGS-113671	125.7046	55876970	
21	ARS-BFGL-NGS-116152	126.2256	55976405	
21	BTA-52544-no-rs	126.543	56037002	
21	ARS-BFGL-NGS-5450	126.668	56060866	
21	ARS-BFGL-NGS-13189	126.8147	56088858	
21	ARS-BFGL-NGS-1366	126.9711	56118709	
21	BTA-52559-no-rs	127.187	56159925	
21	ARS-BFGL-NGS-36353	127.7765	56272444	

21	Hapmap42333-BTA-81770	128.174	56348332	
21	ARS-BFGL-NGS-106159	129.0278	56511299	
21	ARS-BFGL-NGS-115253	129.2609	56555790	
21	ARS-BFGL-NGS-95533	129.5	56601433	
21	ARS-BFGL-NGS-92303	129.6725	56634361	
21	ARS-BFGL-NGS-39454	130.1347	56722594	
21	ARS-BFGL-NGS-101431	130.3212	56758194	
21	BTA-52586-no-rs	130.4635	56785345	
21	ARS-BFGL-NGS-113699	130.955	56879174	
21	Hapmap43466-BTA-112022	131.8945	57058513	
21	ARS-BFGL-NGS-61113	132.4102	57156944	
21	ARS-BFGL-NGS-29588	132.5667	57186819	
21	BTA-52608-no-rs	132.9391	57257887	
21	BTA-52615-no-rs	134.0987	57479244	
21	ARS-BFGL-NGS-39863	134.3329	57523947	
21	ARS-BFGL-NGS-68709	134.7499	57603552	
21	BTA-52592-no-rs	135.0352	57658018	
21	Hapmap45290-BTA-52591	135.3069	57709863	
21	ARS-BFGL-NGS-104549	135.4188	57731221	
21	ARS-BFGL-NGS-119716	135.5973	57765296	
21	ARS-BFGL-BAC-35204	135.7614	57796630	
21	ARS-BFGL-NGS-17085	135.8799	57819236	
21	ARS-BFGL-NGS-106084	136.0321	57848290	
21	ARS-BFGL-NGS-91137	136.2893	57897391	
21	Hapmap36811-SCAFFOLD240339_791		136.4107	57920570
21	ARS-BFGL-NGS-27232	136.5574	57948571	
21	ARS-BFGL-NGS-24785	137.1414	58060052	
21	ARS-BFGL-NGS-54269	137.2085	58072849	
21	ARS-BFGL-NGS-12043	137.3827	58106100	
21	ARS-BFGL-NGS-23598	137.5497	58137970	
21	ARS-BFGL-NGS-260	137.6165	58150735	
21	ARS-BFGL-NGS-41245	137.8164	58188882	
21	ARS-BFGL-NGS-27139	137.9917	58222356	
21	ARS-BFGL-NGS-111589	138.1179	58246444	
21	ARS-BFGL-NGS-37875	138.2532	58272258	
21	ARS-BFGL-NGS-99274	138.9699	58409066	
21	ARS-BFGL-NGS-13205	139.1442	58442333	
21	ARS-BFGL-NGS-99229	141.7753	58944572	
21	ARS-BFGL-NGS-115017	141.8906	58966585	
21	ARS-BFGL-NGS-2042	142.207	59026976	
21	ARS-BFGL-NGS-34766	142.4947	59081896	
21	ARS-BFGL-NGS-40056	142.8619	59151975	
21	ARS-BFGL-NGS-25153	142.9756	59173696	
21	ARS-BFGL-NGS-14810	143.1098	59199306	
21	ARS-BFGL-NGS-101173	143.215	59219376	
21	ARS-BFGL-NGS-20315	143.3691	59248804	
21	ARS-BFGL-NGS-24589	143.5356	59280578	
21	ARS-BFGL-NGS-22488	143.7733	59325954	
21	ARS-BFGL-NGS-35461	143.8738	59345138	
21	ARS-BFGL-NGS-119187	143.9942	59368115	
21	ARS-BFGL-NGS-1694	144.7311	59508785	
21	ARS-BFGL-NGS-109895	145.2182	59601763	
21	ARS-BFGL-NGS-53844	145.4186	59640020	
21	ARS-BFGL-NGS-16275	145.5533	59665710	
21	BTA-52712-no-rs	145.8813	59728340	
21	BTA-52707-no-rs	146.0442	59759420	
21	UA-IFASA-6440	146.1919	59787612	
21	Hapmap41894-BTA-52700	146.3611	59819908	
21	ARS-BFGL-NGS-14422	146.5357	59853238	



21	ARS-BFGL-NGS-108484	146.6524	59875525
21	ARS-BFGL-NGS-15505	146.8276	59908965
21	ARS-BFGL-NGS-23752	147.6476	60065494
21	BTB-01082247	148.0739	60146851
21	ARS-BFGL-NGS-42178	148.2215	60175026
21	ARS-BFGL-NGS-60758	148.3304	60195812
21	ARS-BFGL-NGS-38324	148.4613	60220817
21	ARS-BFGL-NGS-71306	148.6253	60252111
21	ARS-BFGL-NGS-104524	148.76	60277815
21	ARS-BFGL-NGS-47559	149.216	60364864
21	ARS-BFGL-NGS-13221	149.6363	60445084
21	ARS-BFGL-NGS-58357	150.0434	60522809
21	ARS-BFGL-NGS-103468	150.2056	60553762
21	ARS-BFGL-NGS-5797	150.9143	60689040
21	BTB-01994546	151.7638	60851191
21	ARS-BFGL-NGS-118600	152.7301	61035644
21	ARS-BFGL-NGS-69497	153.0366	61094140
21	Hapmap48802-BTA-52802	153.1775	61121046
21	ARS-BFGL-NGS-98794	153.7672	61233617
21	ARS-BFGL-NGS-76886	153.9119	61261222
21	ARS-BFGL-NGS-80743	154.168	61310103
21	ARS-BFGL-NGS-70042	154.292	61333785
21	ARS-BFGL-NGS-71046	154.7055	61412716
21	Hapmap38841-BTA-52789	154.9047	61450735
21	UA-IFASA-5666	155.3642	61538452
21	ARS-BFGL-NGS-3493	155.7883	61619393
21	BTA-52774-no-rs	155.9438	61649083
21	Hapmap44958-BTA-52773	156.0792	61674924
21	ARS-BFGL-NGS-13898	156.9821	61847284
21	ARS-BFGL-NGS-119282	157.1828	61885578
21	ARS-BFGL-NGS-69222	157.36	61919398
21	ARS-BFGL-NGS-95111	157.589	61963124
21	ARS-BFGL-NGS-104428	157.7539	61994597
21	Hapmap31098-BTA-136127	157.931	62028408
21	Hapmap58004-rs29023371	158.1453	62069305
21	ARS-BFGL-NGS-118961	158.2511	62089501
21	ARS-BFGL-NGS-3918	158.3854	62115138
21	ARS-BFGL-NGS-71988	158.6711	62169682
21	ARS-BFGL-NGS-40713	158.9512	62223140
21	ARS-BFGL-BAC-34585	159.0686	62245543
21	ARS-BFGL-NGS-28332	159.649	62356345
21	ARS-BFGL-NGS-98134	159.758	62377154
21	ARS-BFGL-NGS-102816	159.8892	62402185
21	ARS-BFGL-NGS-18270	160.1141	62445122
21	ARS-BFGL-NGS-33885	160.4152	62502588
21	ARS-BFGL-NGS-18002	160.5608	62530384
21	ARS-BFGL-NGS-55430	160.7196	62560705
21	ARS-BFGL-NGS-15298	160.8643	62588326
21	Hapmap38470-BTA-121318	161.0042	62615027
21	ARS-BFGL-NGS-33365	161.1793	62648435
21	ARS-BFGL-NGS-109809	161.3395	62679019
21	ARS-BFGL-NGS-115598	161.5001	62709685
21	ARS-BFGL-NGS-110401	161.813	62769411
21	BTA-119914-no-rs	162.4502	62891038
21	Hapmap23158-BTA-158869	162.6404	62927337
21	ARS-BFGL-BAC-6368	162.7841	62954780
21	Hapmap40048-BTA-119906	163.0977	63014645
21	ARS-BFGL-NGS-102438	163.3263	63058261
21	Hapmap24330-BTA-119896	163.677	63125212

21	Hapmap49481-BTA-119893	163.8182	63152155	
21	ARS-BFGL-NGS-44115	163.9547	63178211	
21	Hapmap46949-BTA-119904	164.2598	63236456	
21	Hapmap47724-BTA-75446	165.1873	63413503	
21	ARS-BFGL-NGS-12794	165.3667	63447746	
21	ARS-BFGL-NGS-98174	165.6152	63495187	
21	ARS-BFGL-NGS-55752	165.7208	63515334	
21	ARS-BFGL-NGS-99716	165.9561	63560239	
21	Hapmap41011-BTA-52897	166.0794	63583791	
21	ARS-BFGL-NGS-110315	166.4767	63659620	
21	ARS-BFGL-NGS-107424	166.7339	63708710	
21	ARS-BFGL-NGS-63007	166.8717	63735024	
21	ARS-BFGL-NGS-21241	167.1947	63796668	
21	ARS-BFGL-NGS-53487	167.4685	63848940	
21	Hapmap58477-rs29015713	167.6345	63880634	
21	ARS-BFGL-NGS-30590	167.8967	63930679	
21	BTA-24891-no-rs	168.0285	63955841	
21	ARS-BFGL-NGS-37805	168.1828	63985298	
21	ARS-BFGL-NGS-43652	168.707	64085350	
21	Hapmap39756-BTA-52915	168.8249	64107848	
21	ARS-BFGL-NGS-118390	168.938	64129449	
21	ARS-BFGL-BAC-35149	169.629	64261331	
21	ARS-BFGL-NGS-3942	169.7913	64292330	
21	ARS-BFGL-NGS-25959	170.1158	64354251	
21	Hapmap39792-BTA-95367	170.4343	64415056	
21	Hapmap41783-BTA-16670	170.864	64497084	
21	ARS-BFGL-NGS-75316	171.0329	64529310	
21	ARS-BFGL-NGS-63564	172.358	64782256	
21	ARS-BFGL-NGS-109009	173.8317	65063551	
21	ARS-BFGL-NGS-110569	174.0344	65102247	
21	BTA-20844-no-rs	174.1701	65128161	
21	ARS-BFGL-NGS-1011	174.4304	65177834	
21	ARS-USMARC-Parent-EF026085-rs29021607		174.5376	65198296
21	Hapmap35417-SCAFFOLD255533_15525		174.5376	65198296
21	ARS-BFGL-NGS-37996	174.722	65233513	
21	Hapmap41014-BTA-52933	175.1565	65316438	
21	Hapmap41013-BTA-52932	175.4132	65365440	
21	ARS-BFGL-NGS-116458	175.5748	65396288	
21	ARS-BFGL-NGS-43191	175.7417	65428138	
21	BTA-52935-no-rs	175.8614	65450996	
21	Hapmap54413-rs29026873	176.0081	65478998	
21	ARS-BFGL-NGS-15163	176.1844	65512647	
21	BTA-52926-no-rs	176.5699	65586228	
21	Hapmap24484-BTA-136154	176.7467	65619983	
21	ARS-BFGL-NGS-35553	176.9971	65667782	
21	ARS-BFGL-NGS-68301	177.114	65690099	
21	Hapmap50502-BTA-92554	177.5653	65776237	
21	Hapmap53110-rs29024180	178.0062	65860395	
21	BTA-52957-no-rs	178.5854	65970967	
21	Hapmap52873-ss46526026	179.0738	66064177	
21	Hapmap35472-SCAFFOLD35342_21388		179.2985	66107076
21	ARS-BFGL-NGS-17977	179.5162	66148635	
21	ARS-BFGL-NGS-44155	179.6674	66177498	
21	ARS-BFGL-NGS-9612	179.8902	66220013	
21	ARS-BFGL-NGS-24407	180.2426	66287283	
21	ARS-BFGL-NGS-94839	180.7302	66380363	
21	ARS-BFGL-NGS-114799	181.3154	66492068	
21	UA-IFASA-8627	181.4348	66514846	
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21	ARS-BFGL-NGS-19338	182.2951	66679072	
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21	ARS-BFGL-NGS-57400	183.0058	66814735	
21	ARS-BFGL-NGS-87371	183.2956	66870052	
21	ARS-BFGL-NGS-95580	183.7213	66951310	
21	ARS-BFGL-NGS-37313	183.9177	66988787	
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21	Hapmap35139-BES10_Contig553_546	184.2869		67059264
21	ARS-BFGL-NGS-20339	184.4418	67088847	
21	ARS-BFGL-NGS-88482	184.5691	67113129	
21	ARS-BFGL-NGS-113795	184.8105	67159217	
21	ARS-BFGL-NGS-105314	184.9987	67195140	
21	ARS-BFGL-NGS-116517	185.1299	67220188	
21	Hapmap38679-BTA-53056	185.5612	67302510	
21	ARS-BFGL-BAC-2524	185.8971	67366627	
21	ARS-BFGL-NGS-56427	186.0889	67403252	
21	ARS-BFGL-NGS-2582	186.2323	67430616	
21	ARS-BFGL-BAC-32514	186.374	67457663	
21	ARS-BFGL-NGS-115346	186.6757	67515244	
21	Hapmap50726-BTA-53062	186.8673	67551834	
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21	ARS-BFGL-NGS-118403	187.3582	67645520	
21	ARS-BFGL-BAC-30311	187.514	67675273	
21	ARS-BFGL-NGS-54071	188.0507	67777704	
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21	ARS-BFGL-NGS-63238	188.4072	67845758	
21	Hapmap59281-rs29027629	188.7144	67904403	
21	ARS-BFGL-NGS-119656	189.0246	67963614	
21	ARS-BFGL-NGS-21626	189.7681	68105539	
21	ARS-BFGL-NGS-29558	189.8901	68128825	
21	ARS-BFGL-NGS-38270	190.0134	68152356	
21	BTA-53082-no-rs	190.2354	68194734	
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21	ARS-BFGL-NGS-105412	190.7104	68285400	
21	BTA-03263-rs29011028	191.0828	68356479	
21	ARS-BFGL-NGS-86477	191.3096	68399787	
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21	ARS-BFGL-NGS-1831	191.8165	68496541	
21	ARS-BFGL-NGS-32442	192.3016	68589138	
21	ARS-BFGL-NGS-37484	192.7944	68683196	
21	Hapmap41289-BTA-53093	193.1532	68751694	
21	ARS-BFGL-NGS-21245	193.6495	68846429	
21	ARS-BFGL-NGS-34517	193.7654	68868534	
21	ARS-BFGL-NGS-117917	194.2758	68965986	
21	Hapmap34162-BES8_Contig487_1402	194.9474		69094176
21	ARS-BFGL-NGS-82314	195.1144	69126047	
21	Hapmap35820-SCAFFOLD55013_40998	195.622		69222948
21	ARS-BFGL-NGS-39941	195.9172	69279283	
21	ARS-BFGL-NGS-84302	196.0704	69308530	
21	Hapmap49212-BTA-53105	196.2387	69340662	
21	ARS-BFGL-NGS-115062	196.5242	69395154	
21	ARS-BFGL-NGS-111074	197.0249	69490730	
21	ARS-BFGL-NGS-52633	197.1608	69516661	
21	ARS-BFGL-NGS-22162	197.3565	69554017	
21	ARS-BFGL-NGS-69059	197.861	69650321	
21	ARS-BFGL-NGS-91002	198.9257	69853542	
21	ARS-BFGL-NGS-1345	199.3752	69939350	
21	ARS-BFGL-NGS-33371	199.548	69972343	

21	ARS-BFGL-NGS-63968	199.758	70012413
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21	ARS-BFGL-NGS-35582	200.1635	70089833
21	ARS-BFGL-NGS-40895	200.3055	70116946
21	ARS-BFGL-NGS-7420	200.5063	70155265
21	Hapmap42243-BTA-53152	200.6515	70182980
21	ARS-BFGL-NGS-67767	201.119	70272221
21	ARS-BFGL-NGS-16898	201.2347	70294301
21	ARS-BFGL-NGS-119475	201.6491	70373409
21	ARS-BFGL-NGS-71316	201.755	70393623
21	ARS-BFGL-NGS-32701	202.1371	70466564
21	ARS-BFGL-NGS-114538	202.4258	70521657
21	ARS-BFGL-NGS-2644	202.8802	70608408
21	ARS-BFGL-NGS-73522	203.3719	70702245
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21	ARS-BFGL-NGS-19528	203.7973	70783456
21	ARS-BFGL-NGS-117259	203.9584	70814197
21	ARS-BFGL-NGS-8097	204.1901	70858428
21	ARS-BFGL-NGS-111489	204.417	70901743
21	ARS-BFGL-NGS-27992	204.575	70931906
21	ARS-BFGL-NGS-15199	205.0659	71025601
21	ARS-BFGL-NGS-26823	205.1781	71047034
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21	ARS-BFGL-NGS-50214	205.6491	71136925
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22	ARS-BFGL-NGS-84222	0	531301
22	BTB-01872781	0	574301
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22	BTB-01191597	0	793826
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22	ARS-BFGL-NGS-103852	0	1232199
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22	Hapmap32015-BTA-110997	0	2069272
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22	Hapmap27963-BTA-147241	0	2332558
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22	Hapmap39760-BTA-55284	0	3073232	
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22	Hapmap50391-BTA-55184	0	3653150	
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22	Hapmap43380-BTA-86280	0	3840934	
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22	ARS-BFGL-NGS-66359	0	3912205	
22	Hapmap60505-rs29023254	0	4006911	
22	Hapmap60454-rs29020896	0	4046850	
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22	BTA-53814-no-rs	0	4277555	
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22	Hapmap51741-BTA-53756	0	4443783	
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22	Hapmap46936-BTA-113993	0	4973727	
22	ARS-BFGL-NGS-117751	0	4994019	
22	Hapmap47040-BTA-54661	0	5022403	
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22	Hapmap58148-rs29020564	0	9482434	
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22	BTB-01545928	0	10085056	
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22	Hapmap58214-rs29015775	0	13203551
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22	BTA-53716-no-rs	0	14804081
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22	ARS-BFGL-NGS-30940	0	15424279
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22	ARS-BFGL-NGS-4910	2.689767	16169625
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22	ARS-BFGL-NGS-108127	3.202944	16301901
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22	ARS-BFGL-NGS-15569	3.728299	16437316
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22	Hapmap41571-BTA-53654	5.031275	16773170
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22	Hapmap22807-BTA-153197	11.48529	19286702
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22	Hapmap40022-BTA-70534	12.76441	19807636
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22	ARS-BFGL-NGS-95371	14.87072	20786020
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22	ARS-BFGL-NGS-16473	15.05172	20974146
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22	BTB-00841422	15.19116	21119081
22	BTA-24112-no-rs	15.20633	21134847
22	BTA-91554-no-rs	15.23445	21164077
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22	BTA-53769-no-rs	15.31765	21250557
22	Hapmap47657-BTA-53851	15.3331	21266612
22	BTB-00842968	15.42414	21361239
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22	ARS-BFGL-NGS-65462	15.57805	21455286
22	ARS-BFGL-BAC-30382	15.68838	21495296
22	Hapmap38965-BTA-53804	16.01817	21614894
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22	ARS-BFGL-NGS-103686	16.941	21963292		
22	Hapmap50386-BTA-53775	17.03118	22004775		
22	ARS-BFGL-NGS-112847	17.12505	22047960		
22	Hapmap52611-rs29018692	17.18594	22075972		
22	ARS-BFGL-NGS-107827	17.27022	22114742		
22	ARS-BFGL-NGS-57234	17.36908	22160219		
22	ARS-BFGL-NGS-13194	17.85272	22382709		
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22	BTA-53817-no-rs	18.8566	22961332		
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22	BTA-14388-rs29023151	19.03904	23303686		
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22	ARS-BFGL-NGS-57585	19.18969	23458863		
22	BTA-16900-no-rs	19.23241	23502867		
22	ARS-BFGL-NGS-41434	19.42779	23554117		
22	Hapmap55470-rs29017069	19.54212	23575419		
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22	Hapmap24296-BTA-136423	20.36669	23729069		
22	Hapmap35135-BES10_Contig779_1471		20.56128	23765329	
22	BTA-108140-no-rs	20.93065	23834157		
22	Hapmap31051-BTA-108138	21.17389	23879479		
22	Hapmap49433-BTA-108141	21.36353	23914818		
22	Hapmap58155-rs29020843	21.73487	23984012		
22	BTA-53805-no-rs	21.86157	24007619		
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22	BTB-00842370	22.2444	24078956		
22	BTA-04040-rs29014407	22.42	24112377		
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22	BTA-92840-no-rs	22.50726	24219999		
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22	BTA-53883-no-rs	22.63855	24462555		
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22	BTA-53899-no-rs	24.18005	24689372		
22	BTA-53900-no-rs	24.20157	24717160		
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22	BTB-00844720	24.55021	24993912		
22	Hapmap50387-BTA-53912	24.72284	25030110		
22	BTA-53914-no-rs	24.84885	25056533		
22	ARS-BFGL-NGS-109363	24.94631	25076967		

22	BTA-53922-no-rs	25.25575	25141851	
22	BTA-53925-no-rs	25.85358	25267209	
22	Hapmap61078-rs29026400	26.11046	25321072	
22	Hapmap48807-BTA-53967	26.36586	25374624	
22	BTA-53968-no-rs	26.66436	25437215	
22	BTB-01853208	27.2113	25551900	
22	BTA-100621-no-rs	27.43487	25598780	
22	BTA-100624-no-rs	27.52289	25617237	
22	Hapmap34595-BES7_Contig485_1361	28.43562		25808620
22	Hapmap32083-BTA-147240	29.24396	25978117	
22	Hapmap31553-BTA-86073	29.35895	26002227	
22	Hapmap48103-BTA-86065	29.69997	26073419	
22	BTB-01379989	29.93223	26121870	
22	BTA-86068-no-rs	30.1329	26163729	
22	BTB-01464126	30.3397	26206868	
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22	Hapmap25302-BTA-150556	30.86729	26294371	
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22	ARS-BFGL-NGS-67328	32.33461	26504086	
22	BTA-77184-no-rs	32.42102	26604789	
22	Hapmap51493-BTA-77185	32.46595	26657157	
22	Hapmap45714-BTA-77191	32.51944	26719493	
22	BTB-00220229	32.69534	26924506	
22	BTB-00220180	32.74611	26983681	
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22	BTB-00220167	32.79839	27044601	
22	BTA-74745-no-rs	32.82828	27079444	
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22	BTA-74727-no-rs	32.86028	27116737	
22	Hapmap26394-BTA-136497	33.02457	27309084	
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22	BTA-54042-no-rs	33.26486	27591140	
22	Hapmap42968-BTA-54040	33.31321	27647893	
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22	ARS-BFGL-NGS-117825	33.98221	28433171	
22	ARS-BFGL-NGS-109224	34.05962	28524038	
22	Hapmap58858-rs29023597	34.09857	28569757	
22	ARS-BFGL-NGS-35360	34.11943	28594240	
22	ARS-BFGL-NGS-23735	34.15497	28635957	
22	Hapmap40360-BTA-53989	34.18694	28673485	
22	ARS-BFGL-NGS-92124	34.2218	28714406	
22	Hapmap27395-BTA-136468	34.28526	28788894	
22	ARS-BFGL-NGS-4227	34.50523	29101885	
22	Hapmap53119-rs29018454	34.53373	29237947	
22	Hapmap33847-BES9_Contig373_1108	34.54692		29300905
22	BTA-53975-no-rs	34.55446	29336878	

22	ARS-BFGL-NGS-35481	34.56852	29403983	
22	ARS-BFGL-NGS-117851	34.58366	29476244	
22	ARS-BFGL-NGS-112715	34.59832	29546235	
22	ARS-BFGL-NGS-64616	34.61061	29604876	
22	ARS-BFGL-NGS-59260	34.617	29635362	
22	ARS-BFGL-BAC-35770	34.62132	29655985	
22	ARS-BFGL-NGS-10971	34.63162	29705155	
22	ARS-BFGL-NGS-113670	34.65228	29803741	
22	ARS-BFGL-NGS-20317	34.66299	29854903	
22	Hapmap39759-BTA-54112	34.69553	30010174	
22	Hapmap46359-BTA-26846	34.70268	30044319	
22	ARS-BFGL-NGS-76231	34.73258	30187053	
22	BTA-54115-no-rs	34.79569	30488276	
22	Hapmap46953-BTA-121345	35.36539	30769143	
22	Hapmap50289-BTA-24348	35.61216	30863595	
22	ARS-BFGL-NGS-108422	35.692	30894155	
22	ARS-BFGL-NGS-86309	35.93727	30988035	
22	ARS-BFGL-NGS-103188	36.02294	31020826	
22	ARS-BFGL-NGS-10105	36.10442	31052013	
22	ARS-BFGL-NGS-115242	36.1976	31087678	
22	Hapmap45590-BTA-97750	36.31219	31131541	
22	ARS-BFGL-NGS-39255	36.46129	31188606	
22	Hapmap35325-BES7_Contig247_1147		36.646	31259303
22	ARS-BFGL-NGS-77117	36.7568	31309419	
22	ARS-BFGL-BAC-35760	36.87626	31409974	
22	ARS-BFGL-NGS-80175	36.91991	31446714	
22	Hapmap54964-rs29011593	36.96175	31481925	
22	BTA-114529-no-rs	37.01625	31527795	
22	Hapmap7840-BTA-54134	37.12982	31649896	
22	Hapmap60793-rs29018735	37.1771	31702243	
22	ARS-BFGL-BAC-33156	37.22861	31759270	
22	ARS-BFGL-NGS-44682	37.24974	31782668	
22	Hapmap40441-BTA-54131	37.30333	31841994	
22	Hapmap59952-rs29019970	37.51332	32041036	
22	ARS-BFGL-NGS-99895	37.74598	32175665	
22	ARS-BFGL-NGS-68862	37.80318	32208759	
22	ARS-BFGL-NGS-60299	37.84843	32234944	
22	BTA-54082-no-rs	37.88686	32257185	
22	ARS-BFGL-NGS-19809	37.95805	32298375	
22	Hapmap44467-BTA-54083	38.00379	32324849	
22	ARS-BFGL-NGS-102789	38.08078	32369396	
22	Hapmap45771-BTA-54088	38.37358	32538832	
22	ARS-BFGL-NGS-21229	38.43393	32573751	
22	Hapmap52235-ss46526582	38.47918	32599934	
22	ARS-BFGL-NGS-19629	38.55	32651309	
22	ARS-BFGL-NGS-116119	38.57742	32693879	
22	Hapmap51256-BTA-54100	38.71254	32827786	
22	BTA-54110-no-rs	38.79504	32930704	
22	ARS-BFGL-NGS-31607	38.85273	32990568	
22	BTA-79149-no-rs	38.93537	33076318	
22	Hapmap43051-BTA-79151	38.95701	33098772	
22	ARS-BFGL-NGS-29523	39.04853	33193736	
22	Hapmap46875-BTA-79157	39.06	33245588	
22	ARS-BFGL-BAC-33160	39.06	33290034	
22	BTA-79164-no-rs	39.06	33310297	
22	Hapmap52084-rs29011014	39.06	33350429	
22	ARS-BFGL-NGS-110665	39.06	33423142	
22	ARS-BFGL-BAC-4845	39.06	33446270	
22	ARS-BFGL-BAC-35103	39.06	33469183	

22	ARS-BFGL-NGS-79484	39.06	33511119	
22	Hapmap49344-BTA-85023	39.06	33583017	
22	Hapmap47345-BTA-60915	39.1783	33766195	
22	Hapmap38474-BTA-122598	39.73291	33983201	
22	Hapmap52799-ss46526060	39.87651	34046326	
22	Hapmap53460-rs29027620	40.00092	34127590	
22	Hapmap43895-BTA-60905	40.13669	34216267	
22	ARS-BFGL-NGS-5534	40.18047	34244868	
22	BTA-60902-no-rs	40.21241	34265726	
22	Hapmap49788-BTA-88951	40.28291	34311771	
22	ARS-BFGL-NGS-109445	40.32478	34339125	
22	ARS-BFGL-BAC-2591	40.39521	34385123	
22	ARS-BFGL-NGS-40184	40.44347	34416644	
22	ARS-BFGL-NGS-33625	41.54079	34882212	
22	ARS-BFGL-BAC-35711	42.08936	35115756	
22	BTA-54174-no-rs	42.18081	35287744	
22	Hapmap51905-BTA-54176	42.20234	35328236	
22	Hapmap48384-BTA-54234	42.2163	35354500	
22	ARS-BFGL-NGS-110326	42.23294	35385782	
22	ARS-BFGL-NGS-105963	42.24743	35413050	
22	ARS-BFGL-NGS-103404	42.26299	35442308	
22	ARS-BFGL-NGS-11671	42.64684	35497292	
22	ARS-BFGL-NGS-67926	42.91669	35527229	
22	ARS-BFGL-NGS-18217	43.6737	35629110	
22	Hapmap52539-rs29014630	43.82489	35662420	
22	BTA-54217-no-rs	44.02904	35707395	
22	ARS-BFGL-NGS-21808	44.3209	35771697	
22	BTA-54207-no-rs	44.48462	35807763	
22	Hapmap41295-BTA-54203	44.65033	35844274	
22	BTA-54189-no-rs	45.08086	35889976	
22	Hapmap50888-BTA-121350	45.40916	36047120	
22	BTA-22352-no-rs	45.77342	36338436	
22	BTA-27368-no-rs	45.91561	36452151	
22	Hapmap30035-BTA-155747	45.97523	36499828	
22	Hapmap35530-SCAFFOLD65737_1657		46.01006	36527685
22	ARS-BFGL-BAC-35732	46.03588	36548339	
22	ARS-BFGL-NGS-43172	46.12748	36621591	
22	ARS-BFGL-NGS-31948	46.18909	36670859	
22	ARS-BFGL-NGS-105840	46.25768	36722990	
22	ARS-BFGL-NGS-44213	46.30605	36754236	
22	ARS-BFGL-NGS-101780	46.35215	36784006	
22	ARS-BFGL-NGS-101826	46.47956	36866292	
22	Hapmap46086-BTA-54248	46.57509	36927992	
22	ARS-BFGL-NGS-101737	46.70809	37013886	
22	ARS-BFGL-NGS-119530	46.8154	37083195	
22	ARS-BFGL-NGS-77115	47.00172	37203531	
22	BTA-54244-no-rs	47.09763	37265470	
22	ARS-BFGL-NGS-43302	47.30966	37402411	
22	ARS-BFGL-NGS-119427	47.3841	37455074	
22	ARS-BFGL-NGS-116802	47.47172	37519085	
22	ARS-BFGL-NGS-87577	47.56892	37590098	
22	ARS-BFGL-NGS-100820	47.60429	37615930	
22	UA-IFASA-4249	47.65427	37652444	
22	ARS-BFGL-NGS-117020	47.73172	37709024	
22	BTA-109833-no-rs	47.76055	37730087	
22	ARS-BFGL-NGS-4831	47.80158	37760061	
22	BTA-13501-rs29018460	47.8359	37785136	
22	Hapmap42580-BTA-54259	47.87447	37813307	
22	ARS-BFGL-NGS-45829	47.91899	37845837	

22	Hapmap38729-BTA-121351	48.08735	37968823	
22	Hapmap44388-BTA-54275	48.19471	38047255	
22	ARS-BFGL-NGS-21848	48.2403	38080562	
22	ARS-BFGL-NGS-75652	48.28092	38110241	
22	ARS-BFGL-BAC-35737	48.32733	38144146	
22	BTA-54293-no-rs	48.3625	38169842	
22	ARS-BFGL-BAC-35740	48.40359	38199861	
22	ARS-BFGL-NGS-100139	48.46299	38243250	
22	Hapmap23398-BTA-136605	48.54492	38303302	
22	BTA-54278-no-rs	48.59597	38341013	
22	ARS-BFGL-NGS-12696	48.7592	38461582	
22	ARS-BFGL-BAC-2599	48.88307	38553083	
22	ARS-BFGL-NGS-37623	49.01	38648446	
22	ARS-BFGL-NGS-84349	49.01	38693078	
22	ARS-BFGL-NGS-98103	49.14128	38727002	
22	Hapmap50026-BTA-54447	49.14405	38759273	
22	ARS-BFGL-NGS-4481	49.146	38782041	
22	ARS-BFGL-NGS-82909	49.14889	38815613	
22	Hapmap47039-BTA-54432	49.15423	38877794	
22	BTA-54431-no-rs	49.15637	38902715	
22	BTB-00846328	49.16251	38974248	
22	ARS-BFGL-NGS-58425	49.16703	39026908	
22	BTB-00846141	49.18095	39188946	
22	ARS-BFGL-NGS-55340	49.18417	39226376	
22	ARS-BFGL-NGS-71810	49.18847	39276433	
22	ARS-BFGL-NGS-1093	49.19061	39301446	
22	BTA-54404-no-rs	49.19308	39330233	
22	Hapmap35958-SCAFFOLD36354_2181		49.19615	39365900
22	ARS-BFGL-NGS-119221	49.19814	39389061	
22	ARS-BFGL-NGS-93535	49.20035	39414833	
22	BTB-01311348	49.21156	39545402	
22	ARS-BFGL-NGS-111295	49.2164	39601681	
22	ARS-BFGL-BAC-2595	49.2212	39657636	
22	ARS-BFGL-NGS-17550	49.22509	39702951	
22	ARS-BFGL-NGS-10155	49.2574	40079119	
22	Hapmap26421-BTA-148672	49.26037	40113694	
22	ARS-BFGL-NGS-1409	49.26503	40167931	
22	ARS-BFGL-NGS-109967	49.26741	40195640	
22	ARS-BFGL-NGS-116598	49.27054	40232132	
22	ARS-BFGL-NGS-15809	49.30143	40382875	
22	Hapmap39642-BTA-28263	49.30484	40389345	
22	Hapmap32338-BTA-149015	49.34016	40456324	
22	Hapmap38398-BTA-28256	49.36084	40495544	
22	Hapmap35514-SCAFFOLD96282_2582		49.37322	40519013
22	BTA-122849-no-rs	49.39362	40557691	
22	ARS-BFGL-NGS-59684	49.42205	40604309	
22	UA-IFASA-4856	49.44046	40633105	
22	Hapmap55168-rs29017467	49.45807	40660672	
22	BTA-116318-no-rs	49.47251	40683266	
22	ARS-BFGL-NGS-95575	49.50011	40726456	
22	ARS-BFGL-NGS-4194	49.67365	40997991	
22	BTB-00847100	49.69538	41032001	
22	BTB-00847079	49.74487	41109447	
22	Hapmap46428-BTA-54503	49.76567	41141995	
22	Hapmap33894-BES9_Contig418_574		49.79898	41194111
22	BTA-54499-no-rs	49.8387	41256253	
22	Hapmap42582-BTA-54484	49.85718	41285179	
22	Hapmap42581-BTA-54463	49.92	41393601	
22	ARS-BFGL-NGS-39645	49.92	41417926	

22	ARS-BFGL-NGS-12851	49.92	41437950	
22	ARS-BFGL-NGS-60129	49.92	41516332	
22	ARS-BFGL-BAC-33314	49.92	41537351	
22	Hapmap48704-BTA-27679	49.92	41573980	
22	ARS-BFGL-NGS-23637	49.92	41786532	
22	Hapmap38998-BTA-106501	49.94631	41883131	
22	ARS-BFGL-NGS-65865	49.99006	41903693	
22	ARS-BFGL-NGS-75444	50.06438	41934247	
22	Hapmap43133-BTA-106470	50.18141	41974372	
22	ARS-BFGL-NGS-21200	50.34664	42031023	
22	Hapmap57565-rs29010880	50.42531	42057997	
22	ARS-BFGL-NGS-33411	50.50244	42084440	
22	BTA-106477-no-rs	50.58126	42111462	
22	Hapmap48168-BTA-106480	50.65641	42137230	
22	Hapmap49425-BTA-106482	50.77461	42177755	
22	ARS-BFGL-NGS-20777	50.81	42202220	
22	ARS-BFGL-NGS-110255	50.81	42284451	
22	ARS-BFGL-NGS-61201	50.81	42338567	
22	BTA-122342-no-rs	50.81	42360284	
22	ARS-BFGL-NGS-119426	50.81	42472743	
22	ARS-BFGL-BAC-28538	50.81	42492853	
22	ARS-BFGL-NGS-3758	51.65003	42616545	
22	BTB-01944780	53.59747	42791065	
22	Hapmap44390-BTA-54545	54.20517	42965301	
22	Hapmap33956-BES4_Contig493_3026		54.30602	42994215
22	BTA-54537-no-rs	54.4833	43045044	
22	ARS-BFGL-NGS-113756	54.65687	43094806	
22	Hapmap53021-rs29009645	54.76979	43127183	
22	ARS-BFGL-NGS-61008	54.93763	43175304	
22	ARS-BFGL-NGS-100568	55.08933	43218799	
22	ARS-BFGL-NGS-23279	55.20518	43252018	
22	ARS-BFGL-NGS-22211	55.28205	43274058	
22	ARS-BFGL-NGS-29294	55.36124	43296761	
22	ARS-BFGL-NGS-111100	55.49883	43336207	
22	ARS-BFGL-NGS-107129	55.99524	43478537	
22	ARS-BFGL-NGS-43839	56.13356	43518191	
22	Hapmap33950-BES3_Contig483_1359		56.27377	43569849
22	UA-IFASA-6042	56.33916	43595820	
22	ARS-BFGL-NGS-39442	56.40227	43620882	
22	ARS-BFGL-NGS-107592	56.53547	43664444	
22	ARS-BFGL-NGS-109885	56.76632	43723207	
22	ARS-BFGL-NGS-103551	56.96356	43773414	
22	BTB-00847362	57.07257	43801163	
22	ARS-BFGL-NGS-102869	57.20342	43834473	
22	Hapmap30494-BTA-122955	57.3254	43862404	
22	Hapmap51144-BTA-11140	57.49758	43894412	
22	Hapmap29492-BTA-54505	57.60722	43914790	
22	Hapmap54532-rs29013429	57.79327	43949380	
22	BTB-00847220	58.22965	44030499	
22	BTA-54597-no-rs	58.67556	44177312	
22	ARS-BFGL-NGS-75375	58.7708	44266173	
22	Hapmap31160-BTA-153965	58.80378	44296938	
22	Hapmap49214-BTA-54587	58.84945	44339542	
22	BTB-00848517	59.77873	44430993	
22	ARS-BFGL-NGS-32388	60.57762	44533699	
22	BTB-00848473	60.65476	44565593	
22	ARS-BFGL-NGS-18749	60.7283	44595995	
22	ARS-BFGL-NGS-112869	60.78472	44619321	
22	ARS-BFGL-NGS-112409	60.84949	44646095	



22	ARS-BFGL-NGS-82140	61.1385	44765577		
22	Hapmap61036-rs29016268	61.21166	44795825		
22	Hapmap42971-BTA-54556	61.33115	44845224		
22	Hapmap39574-BTA-54554	61.44345	44891648		
22	BTA-54550-no-rs	61.58194	44948905		
22	ARS-BFGL-NGS-118471	61.82141	45047902		
22	ARS-BFGL-NGS-81286	61.99203	45118438		
22	BTA-54599-no-rs	62.01647	45128545		
22	ARS-BFGL-NGS-115378	62.06522	45148700		
22	Hapmap59588-rs29018461	62.24763	45224109		
22	Hapmap42246-BTA-54605	62.33323	45259497		
22	Hapmap41019-BTA-54608	62.39927	45286800		
22	Hapmap42844-BTA-121357	62.56498	45355303		
22	ARS-BFGL-NGS-26800	62.7892	45448000		
22	Hapmap53981-rs29024347	62.8438	45470576		
22	Hapmap49215-BTA-54614	62.94429	45512122		
22	BTB-00849108	63.0521	45556690		
22	BTA-54617-no-rs	63.39511	45698497		
22	BTA-54618-no-rs	63.5211	45750581		
22	BTB-00849206	63.80073	45866182		
22	ARS-BFGL-NGS-116947	63.87377	45896379		
22	BTA-54629-no-rs	64.01413	45954406		
22	ARS-BFGL-NGS-1679	64.1825	46024016		
22	ARS-BFGL-NGS-105352	64.31438	46078536		
22	BTB-01833705	64.44135	46131029		
22	ARS-USMARC-Parent-EF093510-rs29010035	64.63609	46211533		
22	UA-IFASA-2605	64.63668	46211779		
22	ARS-BFGL-NGS-40436	64.78593	46273481		
22	Hapmap41900-BTA-54636	64.87231	46309192		
22	Hapmap50027-BTA-54637	64.97618	46352132		
22	ARS-BFGL-NGS-110651	65.05396	46384288		
22	BTB-00849628	65.21465	46450719		
22	ARS-BFGL-NGS-817	65.41575	46533857		
22	ARS-BFGL-NGS-26419	65.59325	46607237		
22	ARS-BFGL-NGS-34067	65.72865	46663211		
22	ARS-BFGL-NGS-81589	65.79684	46691404		
22	BTB-00849757	65.94152	46751219		
22	ARS-BFGL-NGS-8294	66.01511	46781645		
22	ARS-BFGL-NGS-2876	66.08403	46810135		
22	ARS-BFGL-NGS-6388	66.1828	46850967		
22	ARS-BFGL-NGS-111049	66.30633	46902036		
22	BTB-01913549	66.46883	46969215		
22	ARS-BFGL-NGS-59768	66.6515	47044737		
22	Hapmap32362-BTA-155537	66.79298	47103229		
22	BTA-54671-no-rs	66.93988	47163956		
22	BTA-07404-no-rs	67.07448	47219601		
22	BTA-54665-no-rs	67.2575	47295266		
22	ARS-BFGL-NGS-4750	67.31039	47317128		
22	ARS-BFGL-NGS-100411	67.42735	47365483		
22	ARS-BFGL-NGS-32141	67.54999	47416183		
22	ARS-BFGL-NGS-46087	67.62004	47445142		
22	BTA-54658-no-rs	67.66886	47465329		
22	ARS-BFGL-NGS-58114	67.77808	47510478		
22	ARS-BFGL-NGS-108083	67.84242	47537080		
22	ARS-BFGL-NGS-3697	68.14129	47619247		
22	BTB-00850355	68.39455	47682240		
22	UA-IFASA-6018	68.55424	47721961		
22	ARS-BFGL-NGS-5170	68.71558	47762087		
22	Hapmap41774-BTA-121358	68.85754	47797397		

22	ARS-BFGL-NGS-18542	68.97676	47827050
22	ARS-BFGL-NGS-30091	69.44677	47943947
22	Hapmap41575-BTA-54694	69.6045	47983179
22	ARS-BFGL-NGS-114025	69.73238	48014982
22	BTB-00850807	69.92549	48063014
22	ARS-BFGL-NGS-19917	70.11327	48109722
22	ARS-BFGL-NGS-34582	70.22198	48136758
22	BTB-01806733	70.37527	48174884
22	ARS-BFGL-NGS-22249	70.81153	48283392
22	ARS-BFGL-NGS-106065	70.94001	48315348
22	ARS-BFGL-NGS-75959	71.07834	48349750
22	ARS-BFGL-NGS-79759	71.17935	48374877
22	ARS-BFGL-NGS-21218	71.30455	48406016
22	Hapmap49652-BTA-54737	71.8327	48537375
22	ARS-BFGL-NGS-104605	71.98412	48575040
22	ARS-BFGL-NGS-106093	72.09726	48603179
22	ARS-BFGL-NGS-36474	72.34035	48663639
22	BTB-00854474	72.59753	48727610
22	Hapmap39844-BTA-54797	72.74559	48764434
22	ARS-BFGL-NGS-102498	73.01259	48830838
22	ARS-BFGL-NGS-29744	73.21426	48880998
22	ARS-BFGL-NGS-76123	73.3094	48904665
22	ARS-BFGL-NGS-31208	74.22071	49131324
22	ARS-BFGL-NGS-44610	74.60349	49226530
22	ARS-BFGL-NGS-85808	74.70296	49251271
22	ARS-BFGL-NGS-4378	74.7939	49273889
22	ARS-BFGL-NGS-26408	75.30927	49402072
22	ARS-BFGL-NGS-107417	75.76598	49515665
22	ARS-BFGL-NGS-72105	75.86954	49541424
22	Hapmap46833-BTA-54748	76.48904	49695503
22	ARS-BFGL-NGS-19029	77.66183	49987199
22	ARS-BFGL-NGS-31703	77.74972	50009060
22	ARS-BFGL-NGS-88154	77.90341	50047287
22	ARS-BFGL-NGS-16330	79.07388	50338409
22	ARS-BFGL-NGS-15965	79.34975	50407021
22	ARS-BFGL-NGS-39459	79.61923	50474049
22	ARS-BFGL-NGS-43179	79.85715	50533222
22	ARS-BFGL-NGS-28703	79.97321	50562087
22	ARS-BFGL-NGS-96011	80.16436	50609631
22	Hapmap60583-rs29027190	80.33636	50652412
22	Hapmap57252-rs29018823	80.54896	50705290
22	ARS-BFGL-NGS-1909	80.87627	50786697
22	BTA-54761-no-rs	81.43641	50926015
22	BTB-00851968	81.70959	50993959
22	ARS-BFGL-NGS-40920	82.08546	51087450
22	ARS-BFGL-NGS-17638	82.18716	51112744
22	ARS-BFGL-NGS-104258	82.46023	51180659
22	ARS-BFGL-NGS-119268	82.59773	51214861
22	ARS-BFGL-NGS-119923	82.6291	51222664
22	ARS-BFGL-NGS-58654	82.72267	51245935
22	ARS-BFGL-NGS-28042	82.87311	51283351
22	ARS-BFGL-NGS-116277	83.02785	51321838
22	ARS-BFGL-NGS-30489	83.16844	51356807
22	Hapmap58292-rs29023404	83.33566	51398402
22	ARS-BFGL-NGS-55098	83.41878	51419074
22	ARS-BFGL-NGS-111216	83.55204	51452218
22	ARS-BFGL-NGS-5208	83.68314	51484825
22	ARS-BFGL-NGS-102411	83.94895	51550935
22	Hapmap47322-BTA-54813	84.17793	51607887

22	ARS-BFGL-NGS-97562	85.35549	51900773	
22	ARS-BFGL-NGS-103597	85.62395	51967543	
22	ARS-BFGL-NGS-94797	85.78769	52008267	
22	ARS-BFGL-NGS-39199	85.884	52032223	
22	ARS-BFGL-NGS-24963	85.9816	52056494	
22	ARS-BFGL-NGS-98658	86.20916	52113096	
22	ARS-BFGL-NGS-41013	86.93675	52294063	
22	Hapmap43880-BTA-54826	87.18304	52355321	
22	Hapmap50389-BTA-54820	87.47278	52427382	
22	ARS-BFGL-NGS-28973	87.69	52481411	
22	Hapmap54847-rs29022340	87.78257	52504436	
22	ARS-BFGL-BAC-28607	87.99494	52557258	
22	ARS-BFGL-NGS-37311	88.14896	52595563	
22	ARS-BFGL-NGS-119381	88.27807	52627676	
22	BTA-12965-rs29024909	88.73275	52740764	
22	ARS-BFGL-NGS-98199	88.8456	52768833	
22	ARS-BFGL-NGS-111442	88.90398	52783353	
22	ARS-BFGL-NGS-2942	89.08109	52827405	
22	ARS-BFGL-NGS-113174	89.37001	52899262	
22	ARS-BFGL-NGS-32152	89.59624	52955533	
22	BTB-01841536	89.83519	53014964	
22	ARS-BFGL-NGS-95842	90.27979	53125546	
22	BTB-00853109	90.41302	53158683	
22	ARS-BFGL-NGS-100741	90.59309	53203469	
22	ARS-BFGL-NGS-114071	90.70844	53232159	
22	ARS-BFGL-NGS-107585	90.79844	53254546	
22	ARS-BFGL-NGS-301	90.91308	53283054	
22	Hapmap43881-BTA-54837	91.01999	53309647	
22	ARS-BFGL-NGS-117960	91.17697	53348693	
22	ARS-BFGL-NGS-110743	91.29294	53377535	
22	ARS-BFGL-NGS-1999	91.86846	53520681	
22	Hapmap49032-BTA-115439	92.5703	53695239	
22	BTA-54892-no-rs	92.68872	53724697	
22	ARS-BFGL-NGS-39385	93.22547	53858197	
22	BTB-00854039	93.41246	53904704	
22	UA-IFASA-5612	93.5738	53944830	
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22	ARS-BFGL-NGS-51980	93.91142	54028803	
22	BTB-00388772	94.05828	54065331	
22	Hapmap43953-BTA-83292	94.21243	54103673	
22	ARS-BFGL-NGS-85399	94.32996	54132903	
22	Hapmap2744-BTA-121362	94.5343	54183730	
22	BTA-54896-no-rs	94.65192	54212982	
22	Hapmap60563-ss46526220	94.82613	54256311	
22	ARS-BFGL-NGS-82997	94.97469	54293260	
22	ARS-BFGL-NGS-41939	95.10101	54324678	
22	ARS-BFGL-NGS-115367	95.30402	54375172	
22	ARS-BFGL-NGS-84401	95.40715	54400824	
22	ARS-BFGL-NGS-113691	95.56483	54440045	
22	BTB-00855230	96.00276	54548964	
22	ARS-BFGL-NGS-55311	96.14351	54583973	
22	ARS-BFGL-BAC-31006	96.23764	54607385	
22	ARS-BFGL-NGS-106287	96.38959	54645178	
22	Hapmap47043-BTA-54956	96.47063	54665331	
22	ARS-BFGL-NGS-68	96.7466	54733971	
22	Hapmap36428-SCAFFOLD91128_4487		96.9177	54776528
22	Hapmap41094-BTA-83358	97.34092	54881794	
22	ARS-BFGL-NGS-104424	97.42876	54903638	
22	ARS-BFGL-NGS-114255	97.52596	54927816	

22	ARS-BFGL-NGS-76826	97.83498	55004676	
22	ARS-BFGL-NGS-116073	98.07096	55063369	
22	ARS-BFGL-NGS-25024	98.25398	55108887	
22	ARS-BFGL-NGS-118899	98.35474	55133947	
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22	ARS-BFGL-NGS-25043	98.85252	55257755	
22	ARS-BFGL-NGS-53832	99.00699	55296176	
22	ARS-BFGL-NGS-22605	99.18569	55340623	
22	ARS-BFGL-NGS-115487	99.28519	55365371	
22	ARS-BFGL-NGS-69445	99.39957	55393821	
22	ARS-BFGL-NGS-52950	99.61783	55448106	
22	ARS-BFGL-NGS-99335	99.87328	55511639	
22	ARS-BFGL-NGS-111253	99.97047	55535817	
22	ARS-BFGL-NGS-101766	100.0525	55556217	
22	BTA-106005-no-rs	100.1732	55586234	
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22	ARS-BFGL-NGS-116399	100.6319	55700320	
22	ARS-BFGL-NGS-62254	100.9125	55770123	
22	ARS-BFGL-NGS-23553	101.0479	55803801	
22	ARS-BFGL-NGS-123	101.2955	55865370	
22	ARS-BFGL-NGS-27360	101.3906	55889024	
22	Hapmap58218-rs29015891	101.4906	55913908	
22	ARS-BFGL-BAC-31025	101.7923	55988937	
22	BTA-54868-no-rs	102.1807	56085534	
22	Hapmap49654-BTA-54875	102.2738	56108702	
22	BTA-54880-no-rs	102.4533	56153353	
22	ARS-BFGL-NGS-110768	102.5982	56189372	
22	ARS-BFGL-NGS-39475	102.784	56235584	
22	ARS-BFGL-NGS-113431	102.9021	56264962	
22	ARS-BFGL-BAC-31020	102.9848	56285538	
22	Hapmap33781-BTA-149618	103.1092	56316474	
22	BTA-121366-no-rs	103.2255	56345412	
22	Hapmap43616-BTA-55004	103.3545	56377497	
22	ARS-BFGL-NGS-16048	103.6385	56448122	
22	BTA-97002-no-rs	103.7651	56479606	
22	ARS-BFGL-NGS-81834	103.8759	56507175	
22	ARS-USMARC-Parent-EF034082-rs29013532	103.9535	56526462	56526462
22	Hapmap55319-rs29013532	103.9535	56526462	
22	Hapmap47045-BTA-55007	104.103	56563647	
22	BTB-00855998	104.2631	56603472	
22	ARS-BFGL-NGS-108006	104.5517	56675252	
22	Hapmap60954-rs29021814	104.6961	56711180	
22	ARS-BFGL-NGS-111845	104.9153	56765689	
22	ARS-BFGL-NGS-39901	105.0168	56790940	
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22	ARS-BFGL-NGS-111217	105.2697	56853848	
22	ARS-BFGL-NGS-20709	105.3662	56877831	
22	ARS-BFGL-NGS-109532	105.5229	56916823	
22	ARS-BFGL-NGS-70725	105.6284	56943056	
22	Hapmap26413-BTA-146026	105.7217	56966256	
22	ARS-BFGL-NGS-117587	105.8171	56990001	
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22	ARS-BFGL-NGS-112879	105.999	57035240	
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22	ARS-BFGL-NGS-104212	106.2529	57098389	
22	ARS-BFGL-NGS-55064	106.4199	57139923	
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22	BTA-109257-no-rs	106.6831	57205387	
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22	BTA-86052-no-rs	107.0325	57292276	
22	ARS-BFGL-NGS-96007	107.2663	57350433	
22	ARS-BFGL-BAC-31015	107.5864	57430055	
22	BTB-00856713	107.8118	57486105	
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22	ARS-BFGL-NGS-102750	108.3492	57619786	
22	ARS-BFGL-NGS-35067	108.4403	57642429	
22	Hapmap44225-BTA-28287	108.5673	57674021	
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22	ARS-BFGL-NGS-76146	108.955	57770461	
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22	ARS-BFGL-NGS-68645	109.9188	58010164	
22	ARS-BFGL-NGS-100405	110.1806	58075276	
22	ARS-BFGL-NGS-2167	110.2782	58099542	
22	UA-IFASA-8581	110.4593	58144602	
22	ARS-BFGL-NGS-26653	110.5491	58166945	
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22	ARS-BFGL-NGS-27551	110.824	58235303	
22	ARS-BFGL-NGS-111637	110.9344	58262760	
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22	ARS-BFGL-NGS-74619	111.4758	58397411	
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22	ARS-BFGL-NGS-32222	111.8449	58489232	
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22	ARS-BFGL-NGS-14035	112.4901	58649692	
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22	ARS-BFGL-NGS-119059	112.8877	58748602	
22	ARS-BFGL-NGS-68194	113.0567	58790629	
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22	Hapmap35936-SCAFFOLD65654_2749		113.2817	58846586
22	ARS-BFGL-NGS-44530	113.3897	58873440	
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22	ARS-BFGL-NGS-56813	113.8925	58998502	
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22	ARS-BFGL-NGS-79740	114.5712	59167318	
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22	ARS-BFGL-NGS-116144	118.4437	60130492
22	Hapmap39470-BTA-121373	118.8998	60243916
22	ARS-BFGL-NGS-23420	119.2808	60338692
22	Hapmap30583-BTA-157589	119.4338	60376752
22	ARS-BFGL-NGS-56282	119.5151	60396967
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22	ARS-BFGL-NGS-41433	119.7663	60459451
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22	ARS-BFGL-NGS-7101	120.1928	60565514
22	ARS-BFGL-NGS-19124	120.3334	60600490
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22	BTA-55057-no-rs	121.8821	60985682
22	ARS-BFGL-NGS-25064	122.0032	61015806
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22	BTB-00297874	122.2182	61069286
22	Hapmap52284-rs29018845	122.3382	61099118
22	ARS-BFGL-NGS-67185	122.5398	61149265
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23	ARS-BFGL-BAC-30737	0	2702505
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23	Hapmap44605-BTA-55952	0	2965430
23	ARS-BFGL-NGS-89490	0	3035534
23	BTA-55869-no-rs	0	3061955
23	Hapmap51466-BTA-55807	0	3098756
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23	ARS-BFGL-NGS-114691	0	3212408
23	ARS-BFGL-NGS-69231	0	3239987
23	Hapmap58371-rs29014419	0	3320932
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23	Hapmap43883-BTA-55663	0	3387731
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23	ARS-BFGL-NGS-85750	0	3544538
23	UA-IFASA-8061	0	3581582
23	ARS-BFGL-NGS-67812	0	3626219
23	BTA-55567-no-rs	0	3664434
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23	BTA-27838-no-rs	0	4261877
23	ARS-BFGL-NGS-16625	0	4284878
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23	Hapmap58570-ss46526027	0	7132129	
23	Hapmap60475-rs29022896	0	7191371	
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23	ARS-BFGL-NGS-109956	0	7841643	
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23	ARS-BFGL-NGS-44219	0	7942859	
23	Hapmap47330-BTA-57177	0	7970738	
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23	UA-IFASA-4515	0	8289524	
23	ARS-BFGL-NGS-20276	0	8347642	
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23	Hapmap54265-rs29022783	0	51884358		
23	Hapmap57192-rs29027634	0	51938161		
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23	ARS-BFGL-NGS-4455	0	52091670		
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24	BTB-00875512	0	1215950		
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24	BTB-00875313	0	1426384		
24	ARS-BFGL-NGS-37419	0	1507094		
24	BTB-00875197	0	1529327		
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24	BTB-00875143	0	1582182		
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24	BTA-82879-no-rs	0	1797807		
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25	Hapmap27815-BTC-017722	0	3624364		
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25	Hapmap22899-BTC-018001	0	3676450		
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25	Hapmap23660-BTC-018762	0	3801478		
25	ARS-BFGL-NGS-107989	0	3857054		
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25	Hapmap25398-BTC-019181	0	4110250		
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25	ARS-BFGL-NGS-115057	0	4303401		
25	ARS-BFGL-NGS-62236	0	4354023		
25	Hapmap38080-BTA-71296	0	4407311		
25	ARS-BFGL-NGS-39925	0	4485089		
25	Hapmap25383-BTC-001479	0	4514909		
25	Hapmap31636-BTC-053953	0	4544289		
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25	Hapmap32744-BTC-054063	0	4647188		
25	Hapmap30713-BTC-054092	0	4667894		
25	Hapmap31306-BTC-054203	0	4689960		
25	Hapmap25777-BTC-071814	0	4779974		
25	Hapmap26585-BTC-053658	0	4823274		
25	Hapmap32730-BTC-047457	0	4847733		
25	Hapmap23552-BTC-054518	0	4869724		
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25	Hapmap26300-BTC-054549	0	4931889		
25	Hapmap32481-BTC-054553	0	4952802		
25	Hapmap30085-BTC-001300	0	5007707		
25	Hapmap26526-BTC-001269	0	5104091		
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25	Hapmap26242-BTC-001240	0	5156189		
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25	Hapmap25382-BTC-000577	0	5273751		
25	Hapmap32174-BTC-000539	0	5356622		
25	Hapmap31994-BTC-065943	0	5385729		
25	Hapmap32974-BTC-065967	0	5408004		
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25	Hapmap32173-BTC-000382	0	5495966		

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25	Hapmap49602-BTA-41546	0	5683681	
25	Hapmap26025-BTC-050671	0	5728001	
25	Hapmap32426-BTC-000132	0	5759625	
25	Hapmap25460-BTC-059537	0	5805641	
25	Hapmap30462-BTC-059597	0	5836611	
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25	ARS-BFGL-NGS-113208	0	5907022	
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25	Hapmap51962-BTA-96856	0	6050787	
25	Hapmap32191-BTC-019394	0	6103549	
25	Hapmap31265-BTC-019439	0	6126326	
25	Hapmap32438-BTC-019523	0	6155473	
25	Hapmap24512-BTC-019555	0	6175956	
25	Hapmap31908-BTC-019642	0	6207435	
25	Hapmap30117-BTC-019731	0	6239475	
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25	Hapmap29912-BTC-019837	0	6292680	
25	Hapmap49236-BTA-60577	0	6333623	
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25	Hapmap31267-BTC-020423	0	6395301	
25	Hapmap24117-BTC-020596	0	6424123	
25	Hapmap25985-BTC-020890	0	6444456	
25	Hapmap30673-BTC-021236	0	6474172	
25	Hapmap33111-BTC-021675	0	6496284	
25	ARS-BFGL-NGS-21791	0	6524292	
25	Hapmap31912-BTC-021752	0	6579959	
25	Hapmap52616-rs29014010	0	6608460	
25	Hapmap26823-BTC-021812	0	6639565	
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25	Hapmap32193-BTC-021933	0	6766419	
25	Hapmap30456-BTC-058518	0	6862372	
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25	Hapmap27288-BTC-022084	0	6968865	
25	Hapmap46847-BTA-60630	0	7104014	
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25	Hapmap52283-rs29018832	0	7361738	
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25	ARS-BFGL-NGS-68584	0	8051126	
25	Hapmap47137-BTA-95505	0	8060061	
25	ARS-BFGL-NGS-57462	0	8086468	
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25	ARS-BFGL-NGS-113918	0	8165854	
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25	Hapmap35396-SCAFFOLD245063_17530	0		8293697

25	BTA-60642-no-rs	0	8317735	
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25	BTA-60656-no-rs	0	8430452	
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25	Hapmap49237-BTA-60646	0	8517544	
25	Hapmap48965-BTA-97600	0	8647971	
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25	ARS-BFGL-NGS-101381	0	8789153	
25	ARS-BFGL-NGS-42964	0	8969569	
25	BTA-60694-no-rs	0	9012448	
25	Hapmap39667-BTA-60698	0	9059141	
25	BTA-111433-no-rs	0	9258986	
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25	Hapmap43893-BTA-60736	0	9862811	
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25	Hapmap48642-BTA-119781	0	10254815	
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25	BTA-60770-no-rs	0	10448562	
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25	ARS-BFGL-NGS-3069	0	10968180	
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25	ARS-BFGL-NGS-40123	0	11083088	
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25	Hapmap26254-BTC-024038	0	11320423	
25	Hapmap31589-BTC-024512	0	11419998	
25	Hapmap23968-BTC-024825	0	11467621	
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25	Hapmap29919-BTC-026030	0	11702431
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25	Hapmap24109-BTC-001826	0	12073485
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25	Hapmap25682-BTC-026219	0	12217941
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26	Hapmap44471-BTA-61074	0	3139603	
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26	BTB-00920641	0	4129816	
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26	ARS-BFGL-NGS-66554	0	6375086	
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26	Hapmap47505-BTA-111929	0	7653183		
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26	BTA-93563-no-rs	0	8812759		
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26	BTA-19152-no-rs	0	9832963		
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26	ARS-BFGL-NGS-24552	0	9947363		
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26	BTA-61910-no-rs	0	10020259		
26	BTB-00949198	0	10127164		
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26	BTA-61920-no-rs	0	10214117		
26	BTA-18060-no-rs	0	10310793		
26	Hapmap48831-BTA-61922	0	10339734		
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26	Hapmap38926-BTA-94783	0	13697600	
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26	Hapmap26713-BTA-150121	0	14654938	
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26	Hapmap41595-BTA-60800	0	16791783	
26	Hapmap58930-rs29010490	0	16822073	
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27	Hapmap50420-BTA-62223	0	16548312		
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27	Hapmap50057-BTA-62385	0	17759823	
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27	Hapmap49086-BTA-22323	0	20895526	

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28	ARS-BFGL-NGS-3803	0	13802852	
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28	BTA-63552-no-rs	0	14091432
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28	BTA-63546-no-rs	0	14205772
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28	BTB-00978135	0	14338094
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28	Hapmap43002-BTA-63541	0	14482088
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28	Hapmap57731-rs29023197	0	15031048
28	ARS-BFGL-NGS-112617	0	15100045
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28	Hapmap50269-BTA-16971	0	15224521
28	ARS-BFGL-NGS-108752	0	15273955
28	BTB-00978892	0	15300456
28	Hapmap38168-BTA-63574	0	15390176
28	ARS-BFGL-NGS-62227	0	15411008
28	BTB-00978826	0	15436077
28	UA-IFASA-8424	0	15465954
28	Hapmap43635-BTA-63570	0	15502546
28	BTA-63569-no-rs	0	15530655
28	BTA-63563-no-rs	0	15554884
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28	ARS-BFGL-NGS-12759	0	15739975
28	Hapmap50823-BTA-92119	0	15780687
28	ARS-BFGL-NGS-17092	0	15812621
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28	Hapmap44111-BTA-63577	0	16199391
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28	Hapmap42306-BTA-73982	0	16753454
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