

Supplementary Table 1. Association results for the 3,952 independent SNPs that reached genome-wide significance

SNP	Chr	BP	Effect allele	Other allele	Effect allele frequency	Effect size	S.E.
rs9837520	3	49,722,356	A	G	0.2821	0.0295	0.0012
rs2624841	3	50,198,415	T	C	0.3383	-0.0264	0.0011
rs4583487	2	100,837,126	T	G	0.3961	0.0230	0.0011
rs9372734	6	98,577,689	T	C	0.4819	0.0219	0.0010
rs1334297	13	58,335,375	A	G	0.7407	0.0240	0.0012
rs4557790	9	23,349,982	A	C	0.5537	0.0205	0.0011
rs61160187	5	60,111,579	A	G	0.6118	-0.0196	0.0011
rs10733389	9	23,378,220	A	G	0.3804	-0.0194	0.0011
rs60814418	17	43,850,645	T	C	0.2242	-0.0226	0.0013
rs34305371	1	72,733,610	A	G	0.0993	0.0314	0.0018
rs12089815	1	91,189,933	A	G	0.5396	0.0185	0.0011
rs12709690	18	35,165,852	T	C	0.3548	-0.0186	0.0011
rs11664320	18	50,872,623	T	C	0.5649	0.0176	0.0011
rs9787076	1	44,141,149	A	C	0.6711	-0.0184	0.0011
rs37055887	17	44,086,726	T	C	0.7764	0.0233	0.0015
rs13135092	4	103,198,082	A	G	0.9129	0.0299	0.0019
rs3747631	1	204,587,569	C	G	0.2148	0.0204	0.0013
rs35761247	3	48,623,124	A	G	0.055	0.0361	0.0023
rs1689510	12	56,396,768	C	G	0.3272	0.0174	0.0011
rs62244884	3	71,583,383	A	G	0.4275	0.0165	0.0011
rs1455350	2	199,497,115	A	T	0.4866	-0.0161	0.0010
rs34316	5	88,015,545	A	C	0.4285	0.0163	0.0011
rs11581447	1	72,829,683	A	C	0.1989	-0.0196	0.0013
rs11774212	8	145,686,505	T	C	0.5107	0.0157	0.0010
rs2884364	2	161,977,647	A	G	0.3818	-0.0159	0.0011
rs11191193	10	103,802,408	A	G	0.6552	0.0163	0.0011
rs12897763	14	29,638,938	A	G	0.1911	0.0197	0.0013
rs12464505	2	100,876,693	A	C	0.8034	0.0194	0.0013
rs75577466	5	60,605,507	C	G	0.1703	-0.0204	0.0014
rs7306755	12	123,767,929	A	G	0.2045	0.0190	0.0013
rs6704768	2	233,592,501	A	G	0.5664	-0.0153	0.0011
rs4741600	9	1,757,753	T	C	0.3404	0.0158	0.0011
rs11813487	7	11,500,372	T	C	0.0611	-0.0311	0.0022
rs73141547	3	85,657,125	A	T	0.6554	-0.0156	0.0011
rs76076331	2	10,977,585	T	C	0.1299	0.0221	0.0016
rs78410329	16	730,830	T	C	0.2242	0.0178	0.0013
rs79581555	3	49,738,816	A	G	0.0508	-0.0342	0.0024
rs1043595	7	128,410,012	A	G	0.2735	0.0166	0.0012
rs6028084	20	59,838,105	T	C	0.6106	0.0151	0.0011
rs72829857	6	16,966,052	A	G	0.7527	-0.0170	0.0012
rs62260764	3	47,990,500	C	G	0.2569	-0.0168	0.0012
rs2275154	1	243,433,654	A	G	0.6708	0.0156	0.0011
rs738988	22	34,289,025	A	G	0.7149	-0.0160	0.0012
rs6414946	5	87,729,711	A	C	0.521	-0.0145	0.0010
rs12234936	8	30,857,668	T	C	0.419	-0.0146	0.0011

rs917294	1	44,249,485	A	G	0.2213	-0.0172	0.0013
rs171697	5	103,956,516	C	G	0.6689	0.0152	0.0011
rs11688767	2	57,988,194	A	T	0.5107	-0.0143	0.0010
rs11772232	7	1,856,273	T	C	0.1681	0.0192	0.0014
rs80026423	3	48,734,861	T	C	0.0587	-0.0303	0.0022
rs12506222	4	67,899,250	T	C	0.4417	-0.0142	0.0011
rs7924036	10	65,191,645	T	G	0.5115	0.0141	0.0010
rs2491365	10	106,536,976	T	C	0.7297	0.0159	0.0012
rs2901785	1	174,104,743	A	G	0.4485	0.0141	0.0011
rs114597052	5	87,885,499	T	C	0.0912	0.0243	0.0018
rs72801843	16	53,508,802	A	T	0.3036	0.0152	0.0011
rs35319653	4	140,903,155	T	C	0.3396	0.0147	0.0011
rs62262312	3	127,145,909	C	G	0.162	0.0189	0.0014
rs56194430	5	67,824,690	T	C	0.1669	-0.0186	0.0014
rs7788620	7	2,196,349	A	G	0.7807	0.0167	0.0013
rs12699131	7	71,751,316	A	G	0.4729	0.0138	0.0010
rs72819174	2	100,728,256	A	G	0.0843	-0.0249	0.0019
rs7045411	9	14,145,058	A	G	0.8494	0.0193	0.0015
rs10189857	2	60,713,235	A	G	0.5701	0.0138	0.0011
rs7603132	2	4,951,548	A	G	0.1897	0.0173	0.0013
rs27222	5	59,752,602	T	C	0.3569	-0.0141	0.0011
rs3095075	4	3,253,183	A	G	0.5548	-0.0136	0.0011
rs9789595	2	107,539,301	T	C	0.6081	0.0138	0.0011
rs13010288	2	51,824,512	T	G	0.1276	0.0201	0.0016
rs12208753	6	98,248,413	A	G	0.5176	0.0134	0.0010
rs7150195	14	69,740,483	T	G	0.3758	0.0136	0.0011
rs56409354	1	41,772,971	A	G	0.2182	-0.0160	0.0013
rs61867294	10	106,569,207	A	G	0.8005	-0.0165	0.0013
rs56016333	7	104,596,248	T	C	0.6488	-0.0138	0.0011
rs9461242	6	26,314,619	T	C	0.3655	-0.0136	0.0011
rs73208982	4	5,213,120	C	G	0.6626	-0.0139	0.0011
rs329120	5	133,861,756	T	C	0.4245	0.0133	0.0011
rs4850810	2	193,754,771	T	G	0.5292	-0.0131	0.0011
rs1866710	11	12,875,312	A	G	0.2828	-0.0145	0.0012
rs62140599	2	51,017,478	A	T	0.7842	0.0158	0.0013
rs12069733	1	43,941,508	A	G	0.3666	-0.0135	0.0011
rs3783006	13	99,111,209	C	G	0.4488	0.0131	0.0011
rs9956721	18	22,621,869	A	T	0.585	-0.0132	0.0011
rs12962980	18	36,915,043	C	G	0.1822	0.0168	0.0014
rs660010	18	53,310,969	C	G	0.1408	0.0186	0.0015
rs62172117	2	144,168,667	A	G	0.3525	0.0136	0.0011
rs4467547	4	21,945,933	T	G	0.4053	0.0132	0.0011
rs2630767	5	176,870,700	T	C	0.4413	0.0130	0.0011
rs7032484	9	124,617,919	A	G	0.566	0.0130	0.0011
rs35088367	2	100,967,511	T	C	0.0384	0.0338	0.0027
rs4788080	16	28,558,081	T	C	0.3595	-0.0134	0.0011
rs717997	12	84,133,974	A	G	0.4176	0.0130	0.0011
rs9393415	6	23,447,436	T	C	0.6909	0.0138	0.0011

rs6960056	7	92,673,154	A	G	0.4397	0.0129	0.0011
rs11576565	1	72,114,787	A	G	0.488	0.0128	0.0010
rs2295230	6	153,365,100	A	C	0.7037	0.0140	0.0012
rs2570492	2	104,447,905	A	G	0.3964	0.0130	0.0011
rs71541912	2	60,670,216	A	T	0.917	-0.0230	0.0019
rs7356921	6	152,223,003	T	C	0.241	-0.0148	0.0012
rs7236339	18	77,579,773	A	G	0.2174	-0.0153	0.0013
rs12345352	9	23,378,254	C	G	0.9219	-0.0235	0.0020
rs6930903	6	28,981,244	A	G	0.7493	0.0159	0.0013
rs4588749	7	3,363,992	A	G	0.4464	0.0126	0.0011
rs9267576	6	31,812,038	T	G	0.1366	0.0182	0.0015
rs9635366	15	65,804,986	A	G	0.183	0.0161	0.0014
rs72671456	14	29,662,737	A	G	0.1399	-0.0179	0.0015
rs8020023	14	26,981,079	A	G	0.2379	0.0145	0.0012
rs14184	1	110,047,110	C	G	0.7007	-0.0134	0.0011
rs7570799	2	58,577,350	A	G	0.189	-0.0157	0.0013
rs17049712	2	58,961,136	T	C	0.2966	-0.0134	0.0011
rs10874759	1	93,630,172	A	G	0.655	0.0129	0.0011
rs3731769	2	162,107,295	T	G	0.6965	-0.0133	0.0011
rs28396876	2	144,487,090	A	G	0.6169	-0.0125	0.0011
rs4725065	7	8,109,522	A	G	0.4896	-0.0122	0.0010
rs737945	22	30,202,774	C	G	0.4466	-0.0122	0.0011
rs28458909	9	140,257,189	T	C	0.1235	-0.0190	0.0016
rs11149347	7	100,049,742	A	G	0.8025	0.0152	0.0013
rs8058137	16	51,190,580	A	G	0.7827	0.0147	0.0013
rs184654	11	72,364,405	C	G	0.8416	0.0165	0.0014
rs17565975	11	111,586,950	A	G	0.5529	-0.0121	0.0011
rs9411336	9	134,901,901	T	C	0.3234	-0.0128	0.0011
rs9267673	6	31,883,679	T	C	0.0902	-0.0209	0.0018
rs11614957	12	195,309	A	G	0.4423	0.0121	0.0011
rs362307	4	3,241,845	T	C	0.0744	-0.0228	0.0020
rs4378243	1	98,395,881	T	G	0.8392	0.0162	0.0014
rs6782698	3	175,673,379	A	G	0.7537	0.0138	0.0012
rs1167796	7	75,173,180	A	G	0.4253	0.0120	0.0011
rs1440980	11	76,495,076	T	C	0.2287	0.0141	0.0012
rs7522356	1	77,951,460	T	G	0.4429	0.0119	0.0011
rs3763317	6	32,376,788	T	C	0.4487	-0.0121	0.0011
rs11446855	5	92,870,246	A	T	0.0427	0.0295	0.0026
rs3943933	5	63,020,327	A	T	0.4884	-0.0118	0.0010
rs17522122	14	33,302,882	T	G	0.4767	-0.0118	0.0010
rs2974337	8	42,390,873	T	C	0.4942	0.0118	0.0010
rs28451864	8	87,679,777	A	T	0.5502	0.0118	0.0011
rs74181253	2	57,944,590	A	T	0.4524	-0.0137	0.0012
rs10496091	2	61,482,261	A	G	0.2803	-0.0131	0.0012
rs2050256	1	32,204,683	A	G	0.8284	0.0156	0.0014
rs13140733	4	2,920,937	A	G	0.25	-0.0136	0.0012
rs35733856	5	30,830,597	A	G	0.5961	-0.0119	0.0011
rs7093470	10	104,670,868	A	C	0.7875	0.0143	0.0013

rs10984444	9	121,980,347	A	C	0.5076	-0.0116	0.0010
rs1329125	1	234,740,880	T	C	0.3254	-0.0124	0.0011
rs72845696	10	104,187,404	T	C	0.2187	0.0140	0.0013
rs55897719	2	212,590,841	A	C	0.3055	-0.0127	0.0011
rs67040074	2	229,017,414	T	C	0.3451	-0.0122	0.0011
rs2631535	17	50,396,092	A	G	0.3289	0.0123	0.0011
rs7040995	9	92,226,172	C	G	0.532	0.0116	0.0010
rs2293445	12	49,398,862	A	G	0.384	0.0119	0.0011
rs62543169	9	73,069,133	T	C	0.4276	-0.0116	0.0011
rs35124980	3	50,199,330	A	G	0.0703	0.0226	0.0021
rs17881016	10	133,729,181	A	G	0.739	-0.0131	0.0012
rs7668960	4	172,448,875	T	C	0.1548	0.0159	0.0014
rs1267488	6	14,719,994	A	G	0.8202	-0.0149	0.0014
rs34488670	15	47,684,936	T	C	0.7882	0.0140	0.0013
rs3098650	2	164,381,648	C	G	0.6237	0.0118	0.0011
rs9388490	6	126,704,795	T	C	0.4488	0.0115	0.0011
rs12126231	1	184,698,816	A	G	0.6159	0.0117	0.0011
rs1452366	4	82,252,467	T	G	0.3518	-0.0119	0.0011
rs2764684	1	58,537,919	T	C	0.8279	0.0150	0.0014
rs17248751	16	61,579,618	A	G	0.7846	-0.0138	0.0013
rs960740	4	35,459,174	A	T	0.491	-0.0113	0.0010
rs2026037	9	23,762,529	T	C	0.8408	0.0154	0.0014
rs10887465	10	87,016,897	A	C	0.2658	0.0128	0.0012
rs11157931	14	23,403,193	A	C	0.3923	-0.0115	0.0011
rs16993330	22	34,343,697	A	C	0.0587	-0.0240	0.0022
rs7670522	4	106,160,365	A	C	0.4727	0.0127	0.0012
rs12273435	11	133,825,855	A	G	0.201	-0.0141	0.0013
rs2309723	2	100,346,964	T	C	0.45	-0.0113	0.0011
rs7632819	3	108,071,811	A	G	0.755	-0.0130	0.0012
rs975303	6	19,028,788	A	G	0.8265	-0.0148	0.0014
rs12468040	2	44,854,981	T	G	0.3774	0.0115	0.0011
rs3731507	3	48,222,353	T	C	0.0438	0.0276	0.0026
rs63303162	4	176,641,242	A	G	0.5593	0.0112	0.0011
rs78280128	4	106,264,781	A	G	0.9143	-0.0199	0.0019
rs12128772	1	96,176,709	A	G	0.4975	-0.0111	0.0010
rs1464018	3	103,298,871	T	C	0.2106	-0.0136	0.0013
rs36142021	6	119,159,482	T	C	0.3024	-0.0121	0.0011
rs111821073	9	99,084,793	T	C	0.1544	0.0153	0.0015
rs2167763	5	93,257,240	A	G	0.6867	0.0119	0.0011
rs10992836	9	96,422,420	T	C	0.3407	-0.0116	0.0011
rs2160514	12	16,756,508	A	C	0.5614	-0.0111	0.0011
rs12155540	8	93,206,092	T	C	0.3295	0.0117	0.0011
rs7026972	9	111,750,523	T	C	0.6439	-0.0115	0.0011
rs11081529	18	75,902,735	T	C	0.7213	0.0123	0.0012
rs28588750	7	133,629,138	A	G	0.6402	0.0115	0.0011
rs7810903	7	11,904,138	A	C	0.306	0.0119	0.0011
rs7187692	16	72,017,495	C	G	0.5196	0.0110	0.0010
rs7911488	10	105,154,089	A	G	0.6723	-0.0117	0.0011

rs71658797	1	77,967,507	A	T	0.1116	-0.0175	0.0017
rs9297016	6	16,663,101	A	G	0.3986	0.0112	0.0011
rs28661002	9	126,335,211	T	C	0.757	0.0128	0.0012
rs17503473	5	120,102,553	T	C	0.6977	0.0119	0.0011
rs55900829	4	35,514,712	A	T	0.5097	0.0127	0.0012
rs4691601	4	160,599,341	A	T	0.4618	-0.0110	0.0010
rs7304399	12	14,645,350	A	G	0.4606	0.0109	0.0010
rs1493159	4	28,719,509	T	C	0.8453	0.0150	0.0014
rs12124493	1	98,765,641	A	G	0.313	-0.0117	0.0011
rs2304282	8	142,229,543	A	G	0.4148	0.0110	0.0011
rs4553692	18	38,040,163	A	G	0.3714	0.0112	0.0011
rs7652260	3	50,571,585	C	G	0.8408	0.0148	0.0014
rs72890842	2	172,843,278	T	G	0.7563	0.0126	0.0012
rs6794114	3	82,546,836	A	T	0.6665	-0.0115	0.0011
rs8044562	16	82,876,486	A	G	0.2846	-0.0119	0.0012
rs10468056	15	73,377,122	T	G	0.3464	0.0114	0.0011
rs28381527	6	88,369,032	A	G	0.0784	-0.0200	0.0019
rs9540731	13	66,949,370	T	C	0.5052	0.0107	0.0010
rs55975662	3	180,872,919	A	G	0.8566	0.0153	0.0015
rs872602	3	185,826,028	A	G	0.2405	-0.0126	0.0012
rs1483148	2	142,319,770	T	G	0.7312	0.0121	0.0012
rs1058790	1	8,413,839	A	G	0.8205	-0.0140	0.0014
rs117070316	7	127,668,769	T	G	0.032	0.0351	0.0034
rs1738050	1	44,707,295	C	G	0.6159	-0.0110	0.0011
rs2364543	1	41,833,089	T	G	0.6077	0.0110	0.0011
rs9467804	6	26,583,129	T	C	0.4764	-0.0107	0.0010
rs4283969	7	137,071,327	T	G	0.6436	0.0111	0.0011
rs10745307	1	110,580,215	A	G	0.5474	-0.0107	0.0011
rs10927053	1	243,811,321	A	T	0.8944	-0.0173	0.0017
rs42210	5	166,408,788	C	G	0.7123	-0.0118	0.0012
rs10063055	5	140,990,108	T	C	0.2371	-0.0125	0.0012
rs73117392	3	70,002,020	T	C	0.9437	-0.0231	0.0023
rs75687828	16	89,618,876	A	G	0.0852	0.0191	0.0019
rs12055782	6	128,312,033	A	G	0.7179	-0.0118	0.0012
rs12617656	2	162,851,147	T	C	0.6754	-0.0130	0.0013
rs4076457	15	78,007,213	T	C	0.2514	0.0122	0.0012
rs6713695	2	215,393,529	A	G	0.4684	-0.0106	0.0010
rs11773992	8	12,667,804	C	G	0.1783	-0.0138	0.0014
rs4142949	1	74,572,255	A	C	0.5269	0.0106	0.0010
rs56133711	11	27,723,334	A	G	0.2461	-0.0122	0.0012
rs77580539	3	50,127,445	T	C	0.0494	-0.0244	0.0024
rs1866823	8	57,436,577	A	G	0.5413	0.0106	0.0011
rs2279574	12	89,745,477	A	C	0.5354	0.0106	0.0010
rs1564760	3	47,582,724	A	C	0.6831	0.0113	0.0011
rs12807135	11	115,053,508	C	G	0.5126	-0.0105	0.0010
rs13159124	5	3,422,780	A	G	0.6795	-0.0113	0.0011
rs12453010	17	50,316,131	T	C	0.3943	-0.0107	0.0011
rs4798783	18	9,174,885	A	G	0.7072	-0.0115	0.0011

rs10765789	11	95,839,543	A	G	0.3827	0.0108	0.0011
rs4818226	21	42,633,065	A	G	0.3202	0.0112	0.0011
rs62439683	7	21,406,125	A	C	0.2506	-0.0121	0.0012
rs4876775	8	118,944,974	A	G	0.3152	-0.0113	0.0011
rs12937411	17	34,950,239	T	C	0.4094	0.0106	0.0011
rs12764593	10	107,491,895	C	G	0.0611	0.0219	0.0022
rs72886472	18	36,659,093	T	C	0.7344	0.0118	0.0012
rs28807201	21	20,044,236	T	C	0.6998	-0.0114	0.0011
rs68140214	2	237,078,557	A	G	0.1743	-0.0138	0.0014
rs11876620	18	52,737,309	T	C	0.0967	0.0177	0.0018
rs72813988	2	58,842,908	A	C	0.2092	0.0128	0.0013
rs2303083	16	24,835,168	A	G	0.1889	0.0133	0.0013
rs11243852	9	135,508,738	T	C	0.2381	0.0122	0.0012
rs165633	22	29,880,773	A	G	0.7668	-0.0123	0.0012
rs17563464	5	26,913,774	A	C	0.2189	-0.0127	0.0013
rs406413	5	113,898,581	A	T	0.7867	0.0127	0.0013
rs6570660	6	145,230,852	T	C	0.2688	-0.0117	0.0012
rs4127499	11	122,176,383	A	G	0.345	0.0110	0.0011
rs590013	1	29,155,738	T	C	0.6719	0.0111	0.0011
rs10240905	7	32,263,069	T	C	0.3661	-0.0108	0.0011
rs12637456	3	123,744,663	A	T	0.2833	-0.0115	0.0012
rs1904823	4	170,956,772	T	C	0.2492	-0.0120	0.0012
rs2618039	1	112,324,111	A	T	0.6105	0.0106	0.0011
rs933830	4	68,019,294	A	C	0.7594	0.0121	0.0012
rs2431023	15	57,553,832	A	T	0.4166	0.0105	0.0011
rs14433675	8	143,356,114	A	G	0.0176	0.0396	0.0040
rs10734924	12	123,018,894	T	G	0.2622	-0.0118	0.0012
rs56081191	6	98,557,732	A	G	0.0807	0.0192	0.0019
rs9915323	17	37,770,481	A	T	0.2934	-0.0113	0.0011
rs13254311	8	4,800,482	A	G	0.6753	0.0110	0.0011
rs62379379	5	141,082,015	T	G	0.0741	-0.0198	0.0020
rs1865407	5	136,517,761	A	G	0.1296	-0.0154	0.0016
rs76878669	11	66,092,567	C	G	0.7581	0.0121	0.0012
rs912609	13	31,788,335	T	G	0.2251	0.0123	0.0013
rs1291865	10	11,082,192	T	G	0.5105	-0.0103	0.0010
rs7679853	4	30,908,922	A	G	0.3359	-0.0109	0.0011
rs58694847	14	84,916,511	C	G	0.2595	-0.0117	0.0012
rs966221	5	59,502,520	A	G	0.4083	-0.0105	0.0011
rs660549	12	121,300,988	T	C	0.5742	-0.0104	0.0011
rs12170452	22	40,019,773	A	G	0.4445	0.0103	0.0011
rs799443	7	44,769,013	A	T	0.6654	-0.0109	0.0011
rs11733439	4	30,534,692	A	G	0.7881	-0.0126	0.0013
rs12676597	8	9,332,605	T	C	0.3652	0.0107	0.0011
rs997467	2	199,182,704	T	C	0.433	0.0104	0.0011
rs10278242	7	2,323,019	C	G	0.6541	-0.0108	0.0011
rs12131823	1	235,554,749	A	G	0.5374	0.0103	0.0011
rs11100308	4	140,769,923	T	G	0.675	-0.0109	0.0011
rs13392115	2	101,130,820	C	G	0.828	-0.0136	0.0014

rs72717150	14	57,314,430	A	G	0.0747	-0.0194	0.0020
rs6978112	7	1,966,841	T	C	0.4068	-0.0104	0.0011
rs1464297	2	140,653,749	T	C	0.6515	-0.0107	0.0011
rs9922788	16	12,243,932	A	G	0.4337	0.0103	0.0011
rs7430651	3	116,582,186	T	C	0.2866	-0.0113	0.0012
rs6852084	4	147,803,578	A	C	0.6172	-0.0105	0.0011
rs1517480	2	226,281,992	T	G	0.1985	0.0127	0.0013
rs7601892	2	100,789,490	A	G	0.3819	0.0105	0.0011
rs17742342	2	148,633,936	A	C	0.799	-0.0127	0.0013
rs2610990	4	18,008,232	A	G	0.2583	0.0116	0.0012
rs11690035	2	145,603,306	T	C	0.0742	-0.0193	0.0020
rs77584294	1	75,541,089	A	C	0.0399	0.0259	0.0027
rs705240	3	118,457,615	T	C	0.1853	-0.0130	0.0013
rs55633081	7	49,863,017	A	T	0.744	0.0116	0.0012
rs11599424	10	3,993,417	A	T	0.3793	0.0105	0.0011
rs73457936	9	23,233,667	A	G	0.917	0.0183	0.0019
rs9599352	13	69,493,548	A	G	0.4683	-0.0101	0.0010
rs117005905	6	114,218,608	T	C	0.119	0.0156	0.0016
rs6450476	5	57,771,087	A	G	0.2909	-0.0111	0.0012
rs4805761	19	32,951,800	A	G	0.1567	-0.0139	0.0014
rs801742	11	65,914,766	A	C	0.3485	0.0106	0.0011
rs12133735	1	204,556,836	T	G	0.6549	0.0106	0.0011
rs12957463	18	37,412,228	A	G	0.7956	0.0125	0.0013
rs11209771	1	71,817,309	A	G	0.7876	-0.0123	0.0013
rs596160	11	121,982,707	A	G	0.4223	-0.0102	0.0011
rs3895736	3	48,658,467	A	C	0.1738	0.0133	0.0014
rs10496632	2	125,014,321	C	G	0.2838	0.0111	0.0012
rs74710412	16	62,086,038	A	G	0.1592	0.0138	0.0014
rs9985296	3	36,889,621	T	C	0.3825	-0.0103	0.0011
rs12613500	2	180,928,465	C	G	0.4274	0.0101	0.0011
rs4726070	7	151,328,218	A	G	0.5979	0.0102	0.0011
rs6681024	1	243,741,246	T	C	0.8637	0.0146	0.0015
rs80171383	11	46,084,677	A	G	0.1355	0.0146	0.0015
rs11789013	9	109,677,417	T	C	0.7554	0.0117	0.0012
rs7979979	12	106,917,159	T	C	0.2438	-0.0116	0.0012
rs10822745	10	67,954,065	T	C	0.5769	0.0101	0.0011
rs11172371	12	58,286,188	T	C	0.3227	-0.0107	0.0011
rs71411521	2	51,202,876	T	C	0.1506	0.0140	0.0015
rs2301015	5	109,143,386	T	C	0.3267	-0.0106	0.0011
rs5021426	3	18,700,484	T	C	0.7246	-0.0112	0.0012
rs7240432	18	9,590,896	T	G	0.3583	0.0104	0.0011
rs6497339	16	19,277,493	A	T	0.4457	0.0100	0.0011
rs11780633	8	87,164,511	T	C	0.1408	-0.0143	0.0015
rs252991	5	106,767,346	A	G	0.375	0.0103	0.0011
rs17669337	5	92,187,932	T	C	0.4117	-0.0101	0.0011
rs10145520	14	21,930,932	T	G	0.8074	-0.0126	0.0013
rs6466819	7	122,097,058	A	G	0.3678	-0.0103	0.0011
rs4800615	18	22,622,445	T	G	0.1168	-0.0154	0.0016

rs7977614	12	110,115,286	A	G	0.7172	-0.0112	0.0012
rs8614	17	27,588,806	A	C	0.1872	-0.0127	0.0013
rs6956283	7	98,756,597	T	C	0.7329	0.0112	0.0012
rs73050239	3	23,206,858	T	C	0.817	-0.0128	0.0014
rs359233	2	60,470,926	A	G	0.3738	0.0102	0.0011
rs7405130	16	15,147,725	T	C	0.149	-0.0140	0.0015
rs7650602	3	141,147,414	T	C	0.5651	-0.0100	0.0011
rs6711399	2	200,462,840	T	C	0.181	-0.0129	0.0014
rs10920254	1	201,767,474	C	G	0.3563	0.0103	0.0011
rs11737459	4	159,858,736	A	T	0.6958	0.0107	0.0011
rs7125588	11	113,436,072	A	G	0.5656	-0.0100	0.0011
rs7115551	11	29,079,315	A	C	0.8916	0.0159	0.0017
rs36048136	4	83,288,006	A	G	0.2269	0.0118	0.0013
rs57761252	2	161,865,998	A	G	0.2094	0.0121	0.0013
rs9764	4	164,245,405	T	C	0.7306	0.0112	0.0012
rs34743418	3	143,657,807	T	C	0.4367	-0.0100	0.0011
rs2141277	7	39,099,178	A	G	0.4789	0.0098	0.0010
rs7677621	4	176,919,065	T	C	0.3531	-0.0103	0.0011
rs786244	2	145,756,260	C	G	0.3574	0.0103	0.0011
rs11028323	11	25,009,896	A	C	0.5149	-0.0098	0.0010
rs7559005	2	201,161,371	T	C	0.4249	-0.0099	0.0011
rs2515919	6	31,564,167	A	G	0.6256	0.0101	0.0011
rs6569077	6	98,212,409	T	C	0.384	0.0101	0.0011
rs10810620	9	1,686,322	A	G	0.5027	0.0098	0.0010
rs4728354	7	135,051,979	T	C	0.5508	0.0099	0.0011
rs958131	12	23,071,252	A	G	0.3941	0.0100	0.0011
rs34189321	2	203,036,920	A	T	0.8736	0.0147	0.0016
rs10193498	2	174,094,345	A	T	0.7471	0.0113	0.0012
rs16903468	5	88,427,942	T	G	0.1929	0.0124	0.0013
rs7431531	3	105,198,374	T	C	0.6791	-0.0105	0.0011
rs10762069	10	68,208,954	C	G	0.6818	0.0105	0.0011
rs658938	11	65,651,830	A	G	0.194	-0.0124	0.0013
rs837080	8	130,925,116	T	C	0.5225	-0.0098	0.0010
rs72915557	2	175,199,092	A	G	0.0598	-0.0206	0.0022
rs1056010	12	54,626,752	T	C	0.6058	-0.0100	0.0011
rs863006	1	159,177,748	A	G	0.5624	-0.0098	0.0011
rs2614463	14	99,746,274	A	T	0.5874	-0.0099	0.0011
rs6659216	1	91,123,304	A	G	0.1121	-0.0154	0.0017
rs7635063	3	107,818,777	A	G	0.3189	0.0104	0.0011
rs9538497	13	60,257,513	A	T	0.2653	0.0110	0.0012
rs35271256	7	126,108,914	A	G	0.836	0.0131	0.0014
rs663234	1	57,735,595	C	G	0.3996	0.0099	0.0011
rs10788951	1	53,734,998	A	T	0.4045	-0.0100	0.0011
rs748832	3	16,851,202	A	G	0.6314	0.0101	0.0011
rs78631600	12	12,419,719	T	G	0.0783	-0.0181	0.0019
rs13429686	2	105,925,165	A	G	0.8725	0.0145	0.0016
rs3108680	1	107,572,997	T	C	0.6531	0.0102	0.0011
rs2264021	2	194,283,676	A	G	0.6778	0.0104	0.0011

rs10241183	7	86,230,375	T	C	0.3563	-0.0101	0.0011
rs1013982	16	72,450,482	A	G	0.6402	-0.0101	0.0011
rs322627	11	29,731,571	C	G	0.3777	-0.0100	0.0011
rs35567946	8	135,416,103	C	G	0.5908	-0.0099	0.0011
rs13131350	4	17,877,487	A	G	0.8615	0.0140	0.0015
rs2031047	7	1,792,201	A	G	0.3267	-0.0104	0.0011
rs1024374	22	51,149,320	C	G	0.5398	0.0098	0.0011
rs4358081	2	29,100,642	A	C	0.531	-0.0097	0.0010
rs6715321	2	100,109,001	T	C	0.4284	-0.0098	0.0011
rs4785187	16	49,766,772	A	G	0.2233	-0.0116	0.0013
rs66716825	12	15,554,246	C	G	0.2426	-0.0113	0.0012
rs2977467	8	141,547,712	T	C	0.7868	-0.0119	0.0013
rs72662300	14	30,767,400	T	G	0.3327	0.0102	0.0011
rs56059718	15	38,836,777	A	C	0.1943	-0.0122	0.0013
rs2916490	2	80,192,352	A	G	0.3069	-0.0104	0.0011
rs6534338	4	123,026,869	T	C	0.3014	0.0105	0.0011
rs62256287	3	70,543,647	A	G	0.331	0.0102	0.0011
rs1632994	6	29,926,597	T	C	0.5156	0.0097	0.0011
rs17390646	18	50,451,397	C	G	0.1279	-0.0146	0.0016
rs9356034	6	162,946,186	T	C	0.6834	0.0103	0.0011
rs586829	3	20,553,778	A	G	0.6292	0.0099	0.0011
rs902712	3	70,033,238	A	G	0.7314	0.0108	0.0012
rs12532008	7	850,653	T	C	0.6242	-0.0099	0.0011
rs1921608	2	49,674,879	A	G	0.615	0.0098	0.0011
rs12679743	8	10,123,284	T	C	0.1474	-0.0135	0.0015
rs9965170	18	44,788,274	A	G	0.4297	0.0097	0.0011
rs6020560	20	49,119,419	T	C	0.5245	-0.0096	0.0010
rs116093870	10	103,984,390	T	C	0.9399	0.0201	0.0022
rs7716876	5	91,130,058	T	C	0.2795	-0.0106	0.0012
rs933738	12	49,943,122	A	G	0.8199	-0.0124	0.0014
rs4911257	20	31,359,574	T	C	0.6131	0.0098	0.0011
rs34559418	7	85,653,187	A	T	0.8951	-0.0156	0.0017
rs9977825	21	46,494,995	T	C	0.363	-0.0099	0.0011
rs72993796	2	240,321,051	T	C	0.882	0.0149	0.0016
rs746839	8	142,617,261	C	G	0.633	0.0099	0.0011
rs10862376	12	82,257,633	A	T	0.1473	0.0134	0.0015
rs12111032	6	31,242,191	A	G	0.7493	0.0110	0.0012
rs17062133	4	176,762,282	A	G	0.6605	-0.0101	0.0011
rs17400325	2	178,565,913	T	C	0.9597	-0.0242	0.0027
rs6747129	2	225,477,542	A	G	0.1026	-0.0157	0.0017
rs11192147	10	106,413,046	A	C	0.4452	0.0096	0.0011
rs72976737	2	161,298,343	A	G	0.0369	0.0252	0.0028
rs2964252	5	152,067,929	A	G	0.3111	0.0102	0.0011
rs115669814	3	50,102,446	T	C	0.934	-0.0192	0.0021
rs59123361	1	110,766,454	A	G	0.1027	-0.0157	0.0017
rs2441019	5	170,468,415	A	T	0.687	-0.0102	0.0011
rs62247449	3	64,430,551	C	G	0.4349	0.0095	0.0011
rs17680712	8	87,300,775	T	C	0.44	-0.0095	0.0011

rs9891803	17	31,609,815	T	C	0.4965	-0.0095	0.0010
rs8072494	17	33,256,917	A	G	0.7895	-0.0116	0.0013
rs35316276	16	67,850,700	T	C	0.2846	0.0105	0.0012
rs113758614	5	60,484,624	T	G	0.0207	-0.0333	0.0037
rs7736817	5	59,036,578	A	G	0.4782	0.0095	0.0010
rs1566779	5	62,946,113	A	G	0.3821	-0.0097	0.0011
rs4872449	8	26,370,514	A	G	0.4304	0.0095	0.0011
rs72672601	14	42,671,683	A	G	0.5715	-0.0095	0.0011
rs1943107	18	50,425,132	A	G	0.8727	-0.0141	0.0016
rs844675	7	71,499,574	T	C	0.2984	-0.0103	0.0011
rs17597349	18	39,291,937	T	C	0.115	0.0148	0.0016
rs4856570	3	85,466,861	T	C	0.8666	0.0138	0.0015
rs2939261	5	90,965,294	C	G	0.788	0.0115	0.0013
rs12828220	12	27,397,792	T	C	0.6333	-0.0097	0.0011
rs12692779	2	166,653,823	T	C	0.2748	-0.0105	0.0012
rs989996	7	117,642,252	T	C	0.4608	-0.0094	0.0010
rs17096452	14	98,578,983	A	T	0.783	0.0114	0.0013
rs905993	3	131,966,747	C	G	0.3892	-0.0096	0.0011
rs116295561	2	162,157,306	T	C	0.0331	0.0262	0.0029
rs2668196	3	165,502,709	A	T	0.1939	-0.0119	0.0013
rs564887695	5	87,285,074	C	G	0.9844	0.0400	0.0045
rs778342	2	233,798,155	A	G	0.0788	0.0175	0.0020
rs9859719	3	75,039,122	A	G	0.2223	-0.0113	0.0013
rs9303471	17	43,456,342	A	C	0.3624	-0.0098	0.0011
rs6689362	1	91,203,251	A	T	0.6934	-0.0102	0.0011
rs4772268	13	100,825,526	A	G	0.3342	0.0099	0.0011
rs57349798	6	37,486,052	A	G	0.4117	0.0095	0.0011
rs6738860	2	22,442,099	A	T	0.4539	-0.0094	0.0011
rs11775108	8	143,110,476	A	G	0.4871	-0.0093	0.0010
rs62137021	2	48,637,390	T	G	0.3163	0.0100	0.0011
rs6457796	6	34,828,553	T	C	0.7189	0.0104	0.0012
rs10929474	2	7,377,513	A	T	0.2135	0.0114	0.0013
rs7147566	14	30,608,327	T	G	0.2771	0.0104	0.0012
rs77371395	6	28,744,828	A	G	0.0759	-0.0177	0.0020
rs1392816	1	66,481,188	T	C	0.3814	0.0096	0.0011
rs57319644	3	84,664,410	A	G	0.4181	0.0094	0.0011
rs73265641	14	64,949,864	A	G	0.3122	0.0100	0.0011
rs9560707	13	91,509,113	A	T	0.7	0.0102	0.0011
rs80257979	12	49,402,562	T	G	0.9672	-0.0262	0.0029
rs6956241	7	75,900,223	T	G	0.1403	0.0134	0.0015
rs2063569	1	211,563,175	C	G	0.3731	-0.0096	0.0011
rs6929638	6	144,965,158	A	G	0.5298	0.0093	0.0010
rs9359939	6	92,133,241	A	C	0.2421	-0.0108	0.0012
rs2418736	16	68,154,862	A	G	0.1853	-0.0120	0.0013
rs34591327	2	51,009,838	C	G	0.1234	0.0142	0.0016
rs13163062	5	106,955,451	T	C	0.426	0.0094	0.0011
rs58137875	18	40,230,965	A	G	0.2691	-0.0105	0.0012
rs2477674	10	99,712,134	A	T	0.3236	-0.0100	0.0011

rs2371001	2	211,467,548	A	G	0.5108	-0.0093	0.0010
rs12359372	10	67,767,951	T	C	0.6616	-0.0098	0.0011
rs12604573	18	31,786,639	A	G	0.5594	-0.0093	0.0011
rs10124571	9	14,442,490	T	C	0.4014	0.0095	0.0011
rs2430813	8	22,863,247	T	C	0.7693	0.0110	0.0012
rs9317593	13	67,076,574	A	G	0.1478	-0.0130	0.0015
rs72674843	8	95,533,000	T	C	0.7511	-0.0107	0.0012
rs10180845	2	41,475,868	T	C	0.6343	-0.0096	0.0011
rs7628120	3	65,652,373	T	C	0.7023	0.0101	0.0011
rs1079815	2	59,167,905	T	C	0.3166	0.0099	0.0011
rs2561477	5	102,608,924	A	G	0.3171	0.0099	0.0011
rs12448347	16	12,509,911	A	G	0.4637	0.0092	0.0010
rs2517602	6	30,190,040	T	C	0.2988	0.0102	0.0012
rs10809464	9	11,408,193	A	T	0.4624	0.0092	0.0010
rs73219806	8	26,279,173	A	C	0.1664	0.0124	0.0014
rs75624576	13	91,973,215	T	G	0.1004	0.0154	0.0017
rs62257211	3	70,996,636	T	C	0.714	-0.0102	0.0012
rs10016110	4	45,968,561	A	G	0.3817	0.0095	0.0011
rs117520996	19	4,410,003	T	G	0.049	0.0220	0.0025
rs12438304	15	74,099,773	T	C	0.131	0.0136	0.0016
rs115994176	9	81,540,704	T	C	0.6175	-0.0109	0.0012
rs13395080	2	229,100,197	T	C	0.6	-0.0094	0.0011
rs1851013	2	50,630,572	T	C	0.374	-0.0095	0.0011
rs4551987	15	93,475,558	A	G	0.8372	0.0125	0.0014
rs4297478	11	120,435,854	T	C	0.5509	-0.0092	0.0011
rs1094181	2	57,758,135	A	C	0.3312	0.0097	0.0011
rs7040930	9	14,214,720	C	G	0.572	0.0093	0.0011
rs10786823	10	106,597,919	C	G	0.4732	-0.0092	0.0010
rs4211154	7	101,693,868	C	G	0.7745	0.0110	0.0013
rs10752262	10	12,395,100	T	C	0.4177	0.0093	0.0011
rs12743874	1	154,257,188	A	T	0.7183	-0.0103	0.0012
rs11982791	7	2,127,194	A	C	0.0528	-0.0205	0.0023
rs1581168	4	17,053,079	T	C	0.2879	-0.0101	0.0012
rs23766	1	94,032,097	A	G	0.2278	-0.0109	0.0012
rs12816396	12	123,009,498	A	T	0.8353	-0.0123	0.0014
rs73714120	7	104,421,249	A	G	0.2995	0.0100	0.0011
rs4731413	7	127,836,132	A	G	0.2079	0.0113	0.0013
rs9373363	6	143,150,043	A	G	0.7552	-0.0106	0.0012
rs17835368	3	78,444,548	A	C	0.3344	0.0097	0.0011
rs9527905	13	59,403,033	A	G	0.5857	-0.0093	0.0011
rs77554090	3	65,711,935	T	C	0.0733	-0.0175	0.0020
rs75313851	2	44,591,972	A	G	0.0647	-0.0185	0.0021
rs1949197	3	86,273,850	A	G	0.3962	-0.0093	0.0011
rs114850916	3	126,975,479	A	C	0.0334	0.0256	0.0029
rs73195104	4	3,444,690	A	G	0.1813	0.0119	0.0014
rs8055522	16	1,244,380	T	C	0.3373	0.0098	0.0011
rs11131601	4	66,450,520	T	G	0.4097	0.0093	0.0011
rs876475	9	81,545,012	A	G	0.3937	0.0093	0.0011

rs7469569	9	139,926,402	T	C	0.3575	0.0095	0.0011
rs10865834	3	31,599,298	A	G	0.2525	-0.0105	0.0012
rs145979116	2	220,412,282	T	G	0.9788	-0.0322	0.0037
rs2250660	2	233,752,551	C	G	0.5051	0.0091	0.0010
rs2006853	8	127,600,255	A	G	0.5875	0.0092	0.0011
rs4751360	10	133,097,784	T	C	0.4725	0.0091	0.0010
rs10835389	11	28,676,505	T	C	0.6491	-0.0095	0.0011
rs4894651	3	173,912,821	T	C	0.4397	0.0091	0.0011
rs7039819	9	82,430,418	A	G	0.5813	0.0092	0.0011
rs7263949	20	43,690,561	C	G	0.6923	0.0098	0.0011
rs17038608	2	49,594,303	A	G	0.9144	0.0162	0.0019
rs2288004	16	31,054,040	C	G	0.3936	0.0093	0.0011
rs35375125	1	169,248,652	T	C	0.6453	-0.0095	0.0011
rs2195086	2	60,814,466	T	G	0.8447	0.0125	0.0014
rs7580777	2	50,695,601	T	G	0.5977	0.0092	0.0011
rs2017850	1	151,715,279	T	C	0.3475	0.0095	0.0011
rs11755241	6	111,061,814	T	C	0.1923	-0.0116	0.0013
rs113746524	2	60,977,295	T	G	0.0233	0.0300	0.0035
rs6030819	20	42,016,041	A	T	0.1958	-0.0114	0.0013
rs56122560	3	50,316,007	T	G	0.8937	-0.0162	0.0019
rs79798166	5	59,152,140	A	G	0.086	0.0161	0.0019
rs715694	15	47,489,021	A	G	0.6196	0.0093	0.0011
rs6141759	20	31,177,292	A	G	0.2372	-0.0106	0.0012
rs1361975	7	126,560,441	A	C	0.6478	0.0094	0.0011
rs72779695	2	12,797,853	T	C	0.1181	-0.0140	0.0016
rs12746551	1	114,374,966	C	G	0.969	0.0261	0.0030
rs1447200	2	143,334,059	A	C	0.4944	0.0090	0.0010
rs9410471	9	91,902,166	A	G	0.1047	-0.0147	0.0017
rs6466499	7	114,493,274	A	G	0.2006	-0.0113	0.0013
rs7254263	19	30,741,257	T	C	0.2899	-0.0099	0.0012
rs111915841	2	225,467,840	C	G	0.3327	0.0095	0.0011
rs16966271	15	38,423,730	T	C	0.2831	0.0100	0.0012
rs10481106	8	107,599,471	A	G	0.1566	-0.0124	0.0014
rs13212041	6	78,171,124	T	C	0.7995	0.0112	0.0013
rs7845971	8	93,022,095	A	T	0.2226	-0.0108	0.0013
rs860326	14	57,342,912	T	C	0.5679	0.0091	0.0011
rs73210523	3	196,876,600	A	G	0.1741	0.0118	0.0014
rs12627339	21	34,279,201	A	T	0.6982	0.0098	0.0011
rs17468213	18	25,594,931	A	T	0.2756	0.0100	0.0012
rs77702819	2	101,328,728	T	G	0.0895	0.0158	0.0018
rs4793084	17	42,317,371	T	G	0.6939	-0.0097	0.0011
rs1527683	1	74,822,937	T	C	0.7969	-0.0111	0.0013
rs337939	13	71,257,303	T	C	0.5761	0.0091	0.0011
rs9317202	13	62,355,464	T	C	0.7027	0.0098	0.0011
rs9266319	6	31,330,345	A	T	0.8075	0.0114	0.0013
rs60053512	17	60,095,315	A	G	0.1559	0.0123	0.0014
rs73516862	11	68,245,648	T	C	0.7296	0.0101	0.0012
rs1493921	18	31,451,052	T	C	0.3836	0.0092	0.0011

rs6445633	3	54,230,638	A	C	0.3113	0.0096	0.0011
rs6432626	2	161,375,040	T	C	0.4604	0.0090	0.0011
rs10763979	10	34,602,764	A	G	0.6215	0.0092	0.0011
rs3740484	10	102,747,363	T	G	0.3153	0.0096	0.0011
rs6504875	17	52,098,609	T	G	0.5581	0.0090	0.0011
rs35041900	1	171,451,621	T	C	0.0907	-0.0155	0.0018
rs9884603	4	27,991,354	T	C	0.647	0.0093	0.0011
rs6563363	13	84,307,786	T	G	0.3732	-0.0092	0.0011
rs11159067	14	74,637,444	A	G	0.6722	0.0095	0.0011
rs6093705	20	41,257,630	A	C	0.6805	0.0095	0.0011
rs11877152	18	42,754,468	T	C	0.8905	-0.0143	0.0017
rs116075459	12	106,807,888	A	C	0.7818	0.0124	0.0015
rs10040219	5	104,105,309	T	C	0.7182	-0.0099	0.0012
rs2593017	9	88,010,680	A	T	0.8487	-0.0124	0.0015
rs57985238	16	83,608,565	C	G	0.603	-0.0091	0.0011
rs1171150	1	190,366,496	T	C	0.3735	0.0092	0.0011
rs113919848	3	86,145,281	A	T	0.0579	0.0191	0.0023
rs4685405	3	16,981,683	T	G	0.185	-0.0114	0.0013
rs2172122	3	56,576,175	C	G	0.361	-0.0092	0.0011
rs34885384	2	100,526,438	T	C	0.8301	-0.0119	0.0014
rs10805248	4	23,755,141	A	G	0.825	-0.0117	0.0014
rs10928190	2	144,376,033	T	C	0.4461	-0.0089	0.0011
rs10896636	11	57,448,032	C	G	0.6588	0.0094	0.0011
rs2447091	17	2,296,014	T	C	0.6112	0.0091	0.0011
rs611517	18	77,554,063	C	G	0.2057	0.0110	0.0013
rs12596890	16	3,588,068	A	G	0.7984	0.0110	0.0013
rs4561398	15	55,932,617	T	C	0.485	-0.0089	0.0010
rs12928099	16	15,150,505	A	C	0.2974	0.0097	0.0011
rs7847405	9	102,213,749	T	G	0.6495	0.0093	0.0011
rs11681287	2	215,295,184	A	G	0.1456	0.0126	0.0015
rs10111852	8	141,937,541	T	C	0.4949	-0.0089	0.0010
rs3121984	1	112,815,880	T	C	0.69	0.0096	0.0011
rs12581070	12	61,060,692	T	C	0.1419	0.0127	0.0015
rs78365243	1	211,737,950	T	C	0.9535	0.0211	0.0025
rs10151339	14	60,813,416	T	G	0.3172	0.0095	0.0011
rs806180	7	127,283,699	T	C	0.3826	-0.0091	0.0011
rs12134760	1	61,803,341	A	C	0.1392	0.0128	0.0015
rs10014934	4	137,526,995	T	C	0.6251	0.0091	0.0011
rs9930253	16	5,815,334	A	T	0.2786	-0.0099	0.0012
rs35583726	9	8,533,697	A	G	0.8334	0.0119	0.0014
rs4663617	2	236,744,626	A	T	0.2399	0.0104	0.0012
rs2970991	2	101,322,193	C	G	0.5246	0.0088	0.0010
rs115438240	2	185,883,877	T	G	0.941	-0.0187	0.0022
rs707917	6	31,657,754	C	G	0.737	0.0101	0.0012
rs628720	1	241,806,189	T	C	0.634	-0.0091	0.0011
rs61991641	14	77,502,798	T	C	0.3456	-0.0093	0.0011
rs11623285	14	24,557,642	T	G	0.8654	-0.0130	0.0015
rs72751302	15	96,910,355	A	G	0.2027	0.0110	0.0013

rs2059475	15	47,781,093	A	G	0.6883	-0.0095	0.0011
rs60096640	6	27,636,313	A	G	0.8937	0.0143	0.0017
rs251848	5	176,492,557	A	G	0.4927	-0.0088	0.0010
rs34397560	2	174,155,967	A	G	0.4021	0.0090	0.0011
rs730384	14	74,889,870	A	G	0.4364	0.0089	0.0011
rs34074136	14	41,095,960	T	C	0.7765	0.0106	0.0013
rs1297621	7	101,890,901	T	C	0.4	0.0090	0.0011
rs7173089	15	92,438,457	T	C	0.3891	-0.0090	0.0011
rs202224508	20	31,342,066	T	C	0.2304	-0.0121	0.0014
rs13252156	8	15,242,899	A	C	0.4	0.0090	0.0011
rs1539414	1	197,743,506	A	G	0.2121	-0.0107	0.0013
rs827951	6	158,855,387	A	G	0.731	-0.0099	0.0012
rs6717900	2	34,386,394	A	G	0.3677	0.0091	0.0011
rs12814006	12	122,154,617	T	C	0.5259	0.0088	0.0010
rs13278836	8	120,215,797	A	G	0.1155	0.0137	0.0016
rs60613433	5	65,969,162	A	G	0.0962	0.0149	0.0018
rs10514891	5	59,583,170	A	G	0.8832	0.0137	0.0016
rs1152595	14	64,674,981	T	C	0.5382	-0.0088	0.0010
rs7875078	9	14,494,845	A	C	0.4609	-0.0088	0.0011
rs12431576	14	57,287,964	T	C	0.6697	-0.0093	0.0011
rs6866245	5	57,110,963	A	G	0.6149	-0.0090	0.0011
rs13155210	5	167,534,296	T	C	0.4434	0.0088	0.0011
rs17126938	10	111,761,351	T	C	0.8604	-0.0126	0.0015
rs1527878	2	183,446,535	A	G	0.7522	-0.0101	0.0012
rs11192507	10	107,340,162	A	G	0.5887	-0.0089	0.0011
rs79073127	2	48,573,895	C	G	0.1204	-0.0135	0.0016
rs77899607	10	68,691,900	T	C	0.13	0.0131	0.0016
rs12692596	2	161,265,910	T	C	0.3655	-0.0091	0.0011
rs10895719	11	104,563,483	T	C	0.7871	-0.0107	0.0013
rs981949	3	161,196,597	A	C	0.675	0.0093	0.0011
rs60307735	3	8,249,587	T	C	0.3395	0.0092	0.0011
rs12713018	2	49,094,244	A	C	0.6027	-0.0089	0.0011
rs7320982	13	92,019,926	T	C	0.7684	0.0104	0.0012
rs62409395	4	25,605,036	T	C	0.7618	0.0106	0.0013
rs13133213	4	15,646,794	A	G	0.4994	0.0087	0.0010
rs321250	1	96,470,547	T	G	0.4225	-0.0088	0.0011
rs72748123	5	52,799,806	A	G	0.1635	-0.0118	0.0014
rs10456918	6	119,233,480	A	C	0.8293	-0.0116	0.0014
rs16983844	20	62,225,508	A	G	0.2089	0.0107	0.0013
rs28360512	6	108,037,863	A	G	0.35	-0.0091	0.0011
rs111362982	7	3,683,306	T	C	0.8725	-0.0131	0.0016
rs72838750	17	16,242,993	T	G	0.4944	-0.0088	0.0011
rs1031831	18	53,347,258	A	C	0.3375	-0.0092	0.0011
rs1004787	2	45,159,091	A	G	0.5525	-0.0088	0.0011
rs143699161	17	43,748,712	A	G	0.7543	-0.0103	0.0012
rs1972863	4	94,579,511	A	G	0.3049	-0.0095	0.0011
rs12113634	7	111,996,952	T	C	0.6426	0.0091	0.0011
rs12494424	3	70,520,917	C	G	0.0403	-0.0223	0.0027

rs192436652	19	54,960,747	T	C	0.0262	-0.0276	0.0033
rs1144127	3	100,482,076	A	G	0.4486	-0.0087	0.0011
rs141874682	2	5,836,918	T	C	0.0319	-0.0249	0.0030
rs4440553	7	128,391,434	T	C	0.829	0.0116	0.0014
rs10772644	12	13,417,617	C	G	0.8916	0.0140	0.0017
rs4851263	2	100,801,867	A	G	0.1027	-0.0143	0.0017
rs11218422	11	98,982,974	T	C	0.5793	0.0088	0.0011
rs112780312	1	153,797,015	A	G	0.2863	-0.0096	0.0012
rs35797585	10	10,250,793	A	G	0.2448	-0.0102	0.0012
rs73002120	1	118,091,602	A	C	0.1753	0.0114	0.0014
rs2919151	2	174,193,639	T	G	0.4865	0.0087	0.0010
rs515513	1	244,448,353	A	C	0.5332	-0.0087	0.0011
rs1475550	13	107,592,100	A	G	0.6828	-0.0093	0.0011
rs7333511	13	60,783,328	A	T	0.6332	0.0090	0.0011
rs72673939	8	118,867,693	C	G	0.1885	-0.0111	0.0013
rs1121840	5	106,685,840	T	C	0.7754	0.0104	0.0013
rs9268544	6	32,385,453	A	G	0.3855	-0.0090	0.0011
rs4785819	16	65,307,151	T	C	0.8991	-0.0144	0.0017
rs10259526	7	91,576,824	T	G	0.6117	-0.0089	0.0011
rs58859557	1	44,010,456	T	C	0.0668	0.0175	0.0021
rs6575340	14	94,023,972	A	G	0.64	-0.0090	0.0011
rs58130172	1	11,540,649	T	C	0.278	0.0098	0.0012
rs17257579	13	38,176,607	T	C	0.8755	-0.0131	0.0016
rs10230652	7	132,697,829	T	C	0.3114	0.0093	0.0011
rs62082230	18	22,676,071	A	T	0.2753	-0.0097	0.0012
rs17183201	14	75,288,697	T	G	0.9262	0.0166	0.0020
rs11724690	4	186,764,747	T	G	0.2939	0.0095	0.0011
rs12957987	18	31,212,209	A	G	0.4783	0.0087	0.0010
rs67654519	2	155,477,258	T	C	0.4885	-0.0086	0.0010
rs7803932	7	70,203,673	A	G	0.163	0.0117	0.0014
rs2718772	3	180,943,426	A	G	0.6442	-0.0090	0.0011
rs3751837	16	3,583,173	T	C	0.2217	0.0104	0.0013
rs546481	1	234,859,883	A	G	0.1237	-0.0133	0.0016
rs1402954	11	33,777,334	T	C	0.0966	0.0146	0.0018
rs7571708	2	236,832,573	A	G	0.6329	0.0089	0.0011
rs6808671	3	58,231,112	T	C	0.368	-0.0089	0.0011
rs7336670	13	54,199,624	A	C	0.2144	0.0105	0.0013
rs7313056	12	109,871,458	T	C	0.5289	0.0086	0.0010
rs4400723	10	107,107,903	T	C	0.2542	-0.0099	0.0012
rs34045986	2	61,688,489	T	C	0.7811	-0.0104	0.0013
rs9565961	13	85,245,931	T	C	0.1569	-0.0118	0.0014
rs13281878	8	93,318,607	T	C	0.2658	0.0097	0.0012
rs17266097	2	200,275,209	T	C	0.3984	0.0088	0.0011
rs12085418	1	72,553,891	T	G	0.4893	-0.0086	0.0010
rs77128898	11	61,313,525	T	C	0.0334	-0.0242	0.0029
rs16917562	8	53,162,201	A	T	0.8844	-0.0135	0.0016
rs13021827	2	57,876,873	T	C	0.775	0.0103	0.0013
rs283272	20	53,532,627	T	C	0.3179	-0.0092	0.0011

rs971136	22	48,438,408	A	G	0.622	-0.0089	0.0011
rs11138947	9	72,110,562	T	C	0.7208	0.0096	0.0012
rs10886010	10	118,546,590	A	G	0.42	-0.0087	0.0011
rs2174752	13	69,332,015	T	G	0.4534	-0.0086	0.0011
rs11690172	2	57,387,094	A	G	0.5997	0.0088	0.0011
rs11158200	14	58,649,843	A	G	0.5367	0.0086	0.0011
rs113473640	12	120,877,165	A	G	0.9834	-0.0338	0.0041
rs34967558	2	157,490,241	T	C	0.764	-0.0101	0.0012
rs1980099	8	9,686,297	A	G	0.8166	0.0111	0.0014
rs3757479	7	5,761,191	C	G	0.486	0.0086	0.0010
rs3800311	6	27,210,585	A	G	0.8509	0.0120	0.0015
rs1375013	11	121,808,868	T	C	0.6752	-0.0092	0.0011
rs3863241	8	73,890,335	T	C	0.5411	-0.0086	0.0011
rs1427298	2	145,214,421	T	C	0.4237	0.0087	0.0011
rs11703948	22	38,817,047	A	G	0.9047	-0.0146	0.0018
rs2239736	4	2,438,929	T	C	0.5098	0.0086	0.0010
rs17224289	8	74,703,133	T	C	0.1197	-0.0132	0.0016
rs4667489	2	166,396,406	T	C	0.5694	0.0086	0.0011
rs7698820	4	67,084,168	T	C	0.2934	-0.0094	0.0011
rs9481398	6	114,098,094	T	C	0.4932	-0.0085	0.0010
rs17190418	13	58,746,132	T	C	0.0535	-0.0218	0.0027
rs1134777	10	75,538,651	C	G	0.7507	-0.0099	0.0012
rs12974657	19	18,237,571	T	C	0.6826	0.0092	0.0011
rs1647267	2	27,651,054	A	T	0.62	0.0088	0.0011
rs886942	12	1,964,885	T	C	0.8747	-0.0129	0.0016
rs4141463	20	14,747,471	T	C	0.4176	-0.0086	0.0011
rs11886336	2	186,480,090	A	G	0.5781	0.0086	0.0011
rs34321532	16	12,118,260	C	G	0.5057	0.0085	0.0010
rs3811038	2	113,240,183	T	C	0.7214	0.0095	0.0012
rs77882218	18	53,415,063	T	C	0.9716	-0.0256	0.0032
rs7126413	11	120,207,405	A	G	0.6182	0.0088	0.0011
rs11208757	1	66,269,936	T	C	0.188	-0.0109	0.0013
rs2303907	2	73,470,497	T	C	0.5239	0.0085	0.0010
rs1107871	12	132,240,659	A	G	0.552	-0.0086	0.0011
rs112209391	11	79,151,784	T	C	0.1044	0.0139	0.0017
rs2633723	3	53,754,418	T	C	0.6118	0.0087	0.0011
rs4766975	12	121,069,126	A	G	0.6089	-0.0087	0.0011
rs6465603	7	97,289,046	A	G	0.1809	0.0110	0.0014
rs10791303	11	133,531,999	T	C	0.6202	0.0088	0.0011
rs35414759	10	10,906,047	T	C	0.8149	-0.0109	0.0013
rs4851317	2	101,054,149	T	G	0.3082	-0.0092	0.0011
rs72819955	10	107,051,384	T	C	0.0303	-0.0248	0.0031
rs72906124	2	157,076,201	T	C	0.9433	0.0184	0.0023
rs200701118	7	100,026,421	T	G	0.0627	-0.0185	0.0023
rs12916023	15	61,456,053	A	G	0.4908	-0.0085	0.0010
rs72771860	5	87,974,682	T	G	0.0683	-0.0171	0.0021
rs1330936	9	23,362,300	A	G	0.2823	-0.0190	0.0023
rs62142894	2	51,539,442	T	C	0.2615	0.0097	0.0012

rs9409514	9	97,065,439	T	C	0.3499	-0.0089	0.0011
rs6698015	1	58,265,352	T	C	0.6141	0.0087	0.0011
rs481998	5	176,169,058	A	T	0.4449	0.0086	0.0011
rs7151326	14	86,387,845	T	G	0.3944	-0.0087	0.0011
rs561655	11	85,800,279	A	G	0.6553	-0.0089	0.0011
rs7793929	7	855,076	A	T	0.6562	-0.0103	0.0013
rs1971218	2	221,835,288	A	G	0.5241	0.0085	0.0011
rs77187837	13	54,086,522	T	C	0.1223	0.0129	0.0016
rs76957677	10	105,030,157	T	C	0.02	-0.0309	0.0038
rs2488697	10	77,054,052	T	C	0.2711	-0.0095	0.0012
rs9569211	13	55,710,879	A	T	0.3532	0.0089	0.0011
rs36033348	14	98,438,791	T	C	0.907	-0.0146	0.0018
rs12524795	6	3,464,074	T	C	0.4448	0.0085	0.0011
rs11019128	11	90,393,587	T	C	0.3824	-0.0087	0.0011
rs592931	11	61,496,751	T	C	0.3607	0.0088	0.0011
rs4650228	1	74,239,827	A	G	0.4639	-0.0085	0.0010
rs80041551	18	37,021,014	A	G	0.0465	0.0201	0.0025
rs4980376	6	16,924,274	T	C	0.2468	-0.0098	0.0012
rs9516771	13	97,484,830	A	G	0.9372	-0.0174	0.0022
rs631287	9	128,412,676	A	G	0.5583	0.0085	0.0011
rs2098432	12	107,677,693	A	G	0.3665	-0.0088	0.0011
rs7812747	8	77,366,932	A	G	0.5697	-0.0085	0.0011
rs10890995	11	109,327,622	A	G	0.2999	-0.0092	0.0011
rs62199988	2	186,110,190	C	G	0.6045	-0.0086	0.0011
rs1841023	4	163,735,584	A	C	0.6892	-0.0091	0.0011
rs56215322	6	152,187,758	T	C	0.1698	-0.0113	0.0014
rs10465817	1	73,975,686	A	C	0.3927	-0.0086	0.0011
rs137121	22	43,013,554	T	C	0.127	0.0127	0.0016
rs11798079	6	98,664,910	A	G	0.9493	-0.0195	0.0024
rs7924465	11	132,636,983	T	C	0.9068	0.0145	0.0018
rs708912	20	8,403,550	T	C	0.7921	0.0104	0.0013
rs110662	6	33,172,932	A	G	0.7258	-0.0094	0.0012
rs6035413	20	19,674,512	A	T	0.6516	-0.0088	0.0011
rs14515582	1	44,165,646	T	C	0.0424	0.0215	0.0027
rs3817741	6	13,279,507	A	G	0.1867	-0.0108	0.0013
rs11752019	11	2,212,843	A	G	0.1911	0.0107	0.0013
rs13296345	9	14,791,348	T	C	0.6249	0.0087	0.0011
rs1154780	7	78,161,376	A	G	0.5444	0.0084	0.0011
rs79575945	6	152,158,847	A	G	0.9104	-0.0147	0.0018
rs3869097	6	30,984,470	T	C	0.326	-0.0090	0.0011
rs7827631	8	143,490,876	T	C	0.8293	-0.0112	0.0014
rs2210054	14	34,022,139	A	G	0.5825	0.0085	0.0011
rs78278641	11	62,413,662	T	C	0.1373	0.0122	0.0015
rs895204	11	70,662,057	A	G	0.133	-0.0123	0.0015
rs9886703	9	82,246,351	A	T	0.1671	-0.0112	0.0014
rs11380154	6	71,221,537	A	G	0.9872	-0.0375	0.0047
rs78116078	1	18,434,125	C	G	0.7184	0.0093	0.0012
rs55851717	8	30,919,595	A	G	0.7498	0.0097	0.0012

rs57957741	4	103,164,166	A	G	0.5209	0.0084	0.0010
rs61902856	11	113,472,313	T	C	0.2799	-0.0093	0.0012
rs1480582	2	161,606,179	A	T	0.5	0.0084	0.0010
rs12120654	1	74,235,594	A	G	0.0991	0.0141	0.0018
rs895960	12	122,346,052	A	G	0.2016	-0.0104	0.0013
rs9827101	3	131,734,203	A	C	0.5282	-0.0084	0.0010
rs74532781	9	130,979,716	A	G	0.1436	-0.0119	0.0015
rs13026625	2	141,949,960	T	C	0.4703	0.0084	0.0010
rs7600039	2	58,076,075	T	C	0.0797	-0.0154	0.0019
rs17426562	1	97,036,113	A	G	0.0646	0.0170	0.0021
rs560701	6	93,841,742	A	G	0.7005	0.0092	0.0011
rs9267812	6	32,128,394	T	C	0.1338	-0.0123	0.0015
rs1369633	15	47,886,974	A	C	0.1748	-0.0110	0.0014
rs1193240	1	7,525,982	A	C	0.4107	0.0085	0.0011
rs9381086	6	41,580,073	C	G	0.4002	-0.0085	0.0011
rs7035315	9	83,231,511	A	G	0.6281	-0.0086	0.0011
rs62189004	2	162,549,747	T	C	0.9768	-0.0284	0.0036
rs6864049	5	124,330,522	A	G	0.4706	0.0083	0.0010
rs7280000	21	39,598,054	C	G	0.4172	0.0084	0.0011
rs7640269	3	71,475,572	A	G	0.7249	0.0093	0.0012
rs7549469	1	107,304,576	A	T	0.6796	0.0089	0.0011
rs6534704	4	129,757,825	A	T	0.0842	-0.0150	0.0019
rs5759002	22	43,263,432	A	G	0.4878	0.0083	0.0010
rs77702622	8	143,367,857	A	G	0.0612	-0.0174	0.0022
rs6063897	20	51,606,879	C	G	0.2431	-0.0097	0.0012
rs6503409	17	43,058,742	T	C	0.3392	0.0088	0.0011
rs72819942	10	107,034,723	T	C	0.0914	0.0144	0.0018
rs1871745	8	106,457,633	A	G	0.7901	0.0102	0.0013
rs13073489	3	77,257,303	A	G	0.7401	-0.0095	0.0012
rs12793370	11	122,080,117	T	C	0.7756	-0.0099	0.0013
rs7597126	2	215,009,358	T	C	0.4971	-0.0083	0.0010
rs67224963	5	63,787,810	A	G	0.2044	0.0103	0.0013
rs58101352	2	140,277,226	A	G	0.9792	-0.0291	0.0037
rs13161488	5	145,572,664	T	C	0.648	-0.0087	0.0011
rs9682904	3	68,793,738	T	C	0.3846	0.0085	0.0011
rs1055797	8	95,523,233	T	G	0.2485	0.0105	0.0013
rs12507497	4	164,895,662	A	G	0.6417	-0.0086	0.0011
rs11130296	3	51,812,952	T	C	0.2776	-0.0093	0.0012
rs6731373	2	68,503,044	A	G	0.3456	-0.0087	0.0011
rs12820589	12	31,797,673	A	G	0.7831	-0.0100	0.0013
rs114192810	4	17,969,142	T	G	0.981	-0.0304	0.0038
rs12045428	1	210,351,222	A	C	0.1881	-0.0106	0.0013
rs17361576	4	184,792,187	A	C	0.4114	0.0084	0.0011
rs1630579	12	120,850,751	T	C	0.781	-0.0100	0.0013
rs4859144	3	182,624,759	T	C	0.33	0.0088	0.0011
rs7109373	11	39,928,045	A	T	0.804	0.0104	0.0013
rs2421694	10	93,516,104	A	G	0.5686	-0.0083	0.0011
rs1910005	5	81,110,866	T	C	0.7124	-0.0091	0.0012

rs9555651	13	110,587,023	T	C	0.1673	0.0111	0.0014
rs3103307	17	28,660,487	A	T	0.5841	-0.0084	0.0011
rs10764493	10	18,727,999	A	G	0.8892	0.0132	0.0017
rs4678463	3	34,270,633	T	G	0.2518	-0.0095	0.0012
rs7628995	3	68,323,423	A	G	0.656	0.0087	0.0011
rs1448355	11	131,286,685	T	C	0.6238	0.0085	0.0011
rs36011282	18	58,973,546	A	G	0.4351	-0.0083	0.0011
rs113254115	19	13,191,646	T	C	0.1126	-0.0131	0.0017
rs12516485	5	3,269,403	A	G	0.1251	0.0125	0.0016
rs112611766	2	104,511,377	A	T	0.9377	-0.0171	0.0022
rs66968950	4	80,909,460	A	C	0.6366	0.0086	0.0011
rs5024499	2	44,446,931	A	T	0.8027	-0.0103	0.0013
rs7839989	8	133,796,266	T	C	0.2241	0.0099	0.0013
rs6549670	3	74,936,132	A	G	0.1639	0.0111	0.0014
rs2504846	6	40,373,846	T	C	0.0262	-0.0258	0.0033
rs11257765	10	12,434,742	T	C	0.6935	-0.0090	0.0011
rs853199	17	35,850,225	T	C	0.355	0.0086	0.0011
rs12897542	14	72,449,591	A	G	0.8034	-0.0103	0.0013
rs11767283	7	121,947,456	A	G	0.7731	0.0099	0.0013
rs9291436	4	22,165,174	T	C	0.6355	0.0085	0.0011
rs6743032	2	126,024,787	A	G	0.0913	-0.0143	0.0018
rs170035	4	39,793,856	A	G	0.6208	0.0085	0.0011
rs12104029	18	62,509,211	C	G	0.5305	-0.0082	0.0010
rs12981405	19	19,651,577	T	C	0.1656	-0.0111	0.0014
rs13060816	3	107,280,486	T	C	0.4705	-0.0082	0.0010
rs56256156	10	10,036,402	A	C	0.5914	-0.0084	0.0011
rs76835317	8	135,424,654	A	G	0.1213	-0.0126	0.0016
rs60637254	5	79,323,473	C	G	0.3972	-0.0084	0.0011
rs8004353	14	29,814,928	A	C	0.6418	0.0086	0.0011
rs10214086	5	136,783,945	A	T	0.7487	0.0095	0.0012
rs210152	6	33,515,520	A	G	0.8228	-0.0107	0.0014
rs6549016	3	85,180,270	A	C	0.4588	-0.0082	0.0011
rs10830858	11	91,896,638	T	C	0.5062	0.0082	0.0010
rs35414043	15	66,839,394	A	G	0.0764	-0.0154	0.0020
rs2269506	3	50,595,141	T	C	0.1039	0.0134	0.0017
rs62442809	7	21,132,591	T	C	0.284	-0.0091	0.0012
rs12694681	2	226,609,241	T	G	0.692	0.0089	0.0011
rs4805753	19	32,818,419	T	C	0.199	0.0103	0.0013
rs4376462	8	31,359,814	T	G	0.3977	-0.0083	0.0011
rs1103127	16	10,234,764	A	G	0.4911	-0.0082	0.0010
rs7097348	10	53,663,315	T	C	0.7168	-0.0091	0.0012
rs112255786	6	50,888,500	C	G	0.9385	-0.0170	0.0022
rs1779549	14	84,640,016	A	C	0.4623	0.0082	0.0010
rs10853981	19	4,965,064	A	G	0.3286	-0.0087	0.0011
rs6684189	1	91,093,014	T	C	0.6302	-0.0084	0.0011
rs7449561	6	66,215,549	A	G	0.2268	0.0097	0.0012
rs4780865	16	10,270,667	A	G	0.0897	-0.0143	0.0018
rs1337731	1	199,444,151	A	G	0.3344	0.0086	0.0011

rs16962845	16	61,028,673	T	C	0.8932	-0.0132	0.0017
rs4850954	2	101,573,214	T	C	0.4529	0.0082	0.0011
rs1351665	3	126,892,288	T	C	0.4491	0.0082	0.0011
rs16970633	15	40,642,877	T	G	0.1582	-0.0111	0.0014
rs1835388	4	65,603,569	T	C	0.4703	-0.0081	0.0010
rs73405293	12	117,522,917	A	G	0.1486	0.0114	0.0015
rs4981711	14	30,074,001	T	C	0.6167	0.0084	0.0011
rs7965875	12	130,753,437	T	C	0.7018	-0.0089	0.0011
rs2941318	16	9,312,782	A	G	0.4299	0.0082	0.0011
rs10880961	12	46,765,228	C	G	0.398	0.0083	0.0011
rs34719425	6	167,620,407	T	C	0.243	0.0095	0.0012
rs10202640	2	28,434,477	A	G	0.1943	-0.0103	0.0013
rs12349094	9	95,953,313	T	C	0.5413	0.0082	0.0011
rs1332894	9	87,250,817	T	C	0.134	-0.0119	0.0015
rs6704241	1	154,814,785	A	G	0.663	0.0086	0.0011
rs4724085	7	42,015,480	A	C	0.6856	-0.0087	0.0011
rs9935637	16	76,469,730	C	G	0.4488	0.0082	0.0011
rs6815512	4	173,075,232	A	C	0.5469	-0.0081	0.0011
rs4142529	6	98,322,361	T	C	0.1185	-0.0126	0.0016
rs2054805	8	92,021,036	T	C	0.725	0.0091	0.0012
rs11191652	10	105,075,736	T	G	0.8617	0.0129	0.0017
rs11698330	20	14,507,909	T	G	0.2011	0.0101	0.0013
rs28607949	2	35,041,094	T	C	0.4539	-0.0082	0.0011
rs130649	22	39,645,316	A	G	0.2544	0.0094	0.0012
rs2665668	2	60,768,978	A	G	0.6324	-0.0084	0.0011
rs1078364	18	9,427,545	T	C	0.7678	0.0096	0.0012
rs12442630	15	57,148,007	A	T	0.9686	0.0232	0.0030
rs10894605	11	132,654,027	A	G	0.5827	0.0082	0.0011
rs9264644	6	31,238,522	T	C	0.2815	-0.0091	0.0012
rs35215630	5	136,765,039	T	C	0.3726	0.0084	0.0011
rs4082337	10	65,487,810	T	C	0.6867	0.0088	0.0011
rs6088618	20	33,409,350	A	G	0.449	0.0081	0.0011
rs293009	5	58,027,009	A	G	0.5794	0.0082	0.0011
rs1470223	18	50,116,751	T	C	0.2121	0.0099	0.0013
rs7993752	13	42,573,980	A	C	0.5793	0.0082	0.0011
rs72695265	1	112,155,679	T	C	0.2292	-0.0096	0.0012
rs76455914	7	71,775,291	C	G	0.0334	0.0225	0.0029
rs149274654	1	74,378,017	C	G	0.0343	0.0229	0.0030
rs16837395	3	131,378,324	C	G	0.4256	-0.0082	0.0011
rs75641874	5	91,210,381	T	G	0.0969	0.0137	0.0018
rs4943074	13	31,646,255	A	C	0.5489	0.0081	0.0011
rs1452082	3	62,465,039	A	C	0.5514	0.0081	0.0011
rs6906818	6	142,970,259	T	C	0.5985	0.0082	0.0011
rs217176	16	72,203,192	T	C	0.1806	-0.0105	0.0014
rs2710873	1	978,193	A	G	0.1607	-0.0113	0.0015
rs7137059	12	84,579,949	A	G	0.7885	0.0099	0.0013
rs12147215	14	85,104,052	A	G	0.2299	0.0096	0.0012
rs7983020	13	21,239,941	T	C	0.7151	-0.0089	0.0012

rs143812851	16	61,773,849	A	G	0.1689	-0.0108	0.0014
rs13061596	3	18,014,304	A	G	0.045	-0.0195	0.0025
rs9491350	6	98,800,429	C	G	0.8912	0.0130	0.0017
rs268134	2	65,608,363	A	G	0.2483	0.0093	0.0012
rs1939800	11	105,814,770	T	C	0.3833	0.0083	0.0011
rs72667460	1	66,536,012	T	C	0.0538	0.0178	0.0023
rs55863153	12	123,637,698	A	C	0.9728	-0.0249	0.0032
rs12964590	18	77,632,580	A	G	0.4468	-0.0081	0.0011
rs11786807	8	105,077,013	A	G	0.5729	-0.0081	0.0011
rs1128687	17	78,973,474	T	C	0.5708	-0.0081	0.0011
rs305191	2	36,252,564	T	C	0.2675	0.0091	0.0012
rs12912465	15	77,309,459	T	C	0.2689	-0.0091	0.0012
rs7716190	5	30,900,015	C	G	0.7701	-0.0095	0.0012
rs2591114	18	28,372,663	A	G	0.5455	-0.0081	0.0011
rs139019609	9	103,001,820	A	G	0.9564	0.0197	0.0026
rs72665099	8	88,273,939	T	G	0.9333	0.0161	0.0021
rs143095689	1	220,348,801	T	C	0.1857	0.0103	0.0013
rs936580	15	40,924,578	A	G	0.1532	0.0111	0.0015
rs2145265	20	58,232,736	T	C	0.8408	0.0110	0.0014
rs12127928	1	28,708,529	T	C	0.8071	0.0102	0.0013
rs2824999	21	20,060,670	T	C	0.7304	-0.0090	0.0012
rs2030323	11	27,728,539	A	C	0.2138	0.0098	0.0013
rs12768641	10	134,966,154	A	G	0.7614	0.0094	0.0012
rs7715167	5	170,778,824	T	C	0.3883	-0.0082	0.0011
rs62410180	4	17,904,598	T	C	0.9853	-0.0335	0.0044
rs11633934	15	27,994,731	A	C	0.5433	0.0080	0.0011
rs72657787	1	38,010,243	A	G	0.0783	-0.0149	0.0019
rs2960296	4	2,943,672	C	G	0.4118	0.0081	0.0011
rs11643516	16	26,456,439	T	C	0.4128	-0.0081	0.0011
rs11196397	10	115,375,528	A	C	0.2731	0.0090	0.0012
rs7634036	3	18,508,640	C	G	0.2394	-0.0094	0.0012
rs1430047	2	16,646,461	A	G	0.7329	-0.0090	0.0012
rs1820986	2	68,075,346	A	G	0.1373	-0.0116	0.0015
rs1418004	1	70,117,448	T	C	0.4184	-0.0081	0.0011
rs72761767	9	122,077,623	T	C	0.9599	-0.0203	0.0027
rs35932033	8	127,417,164	A	G	0.7518	-0.0093	0.0012
rs9513416	13	99,055,774	A	G	0.8474	-0.0111	0.0015
rs56173013	7	99,600,405	A	T	0.5897	0.0081	0.0011
rs9922098	16	73,440,877	A	G	0.5234	0.0080	0.0011
rs6027503	20	58,893,584	C	G	0.5689	-0.0081	0.0011
rs8025575	15	26,788,083	C	G	0.4485	-0.0080	0.0011
rs7657329	4	181,308,073	A	C	0.3184	-0.0086	0.0011
rs73989464	2	215,241,551	A	G	0.8206	-0.0104	0.0014
rs7645013	3	127,157,758	T	C	0.2942	-0.0087	0.0011
rs1338263	6	93,640,548	A	G	0.5467	-0.0080	0.0011
rs2886405	10	127,152,944	T	G	0.3604	0.0083	0.0011
rs55901919	2	212,289,451	T	C	0.2718	-0.0090	0.0012
rs9477291	6	17,015,638	A	G	0.3108	-0.0086	0.0011

rs2100249	7	113,848,497 T	G	0.352	-0.0083	0.0011
rs2338719	22	48,879,639 T	C	0.3413	0.0084	0.0011
rs11030742	11	29,621,198 A	G	0.8232	-0.0105	0.0014
rs56181223	15	80,818,279 A	T	0.343	-0.0084	0.0011
rs9551887	13	30,884,268 T	C	0.549	-0.0080	0.0011
rs12518468	5	7,249,696 T	C	0.6672	0.0084	0.0011
rs7382146	6	28,665,362 T	C	0.4488	-0.0081	0.0011
rs56355837	18	73,009,786 A	C	0.6641	-0.0084	0.0011
rs586875	11	30,755,937 A	G	0.4245	0.0080	0.0011
rs111258777	2	58,346,019 T	C	0.8973	-0.0131	0.0017
rs4272263	7	14,502,670 A	G	0.3819	-0.0082	0.0011
rs1380669	1	69,786,922 A	G	0.7552	0.0092	0.0012
rs61958175	13	58,680,250 A	G	0.9508	-0.0186	0.0024
rs6452080	5	22,325,948 T	C	0.4348	0.0080	0.0011
rs7775100	6	96,519,657 T	C	0.3913	-0.0081	0.0011
rs4977885	9	23,687,983 A	G	0.3953	-0.0082	0.0011
rs62081488	18	35,169,974 T	C	0.0431	-0.0196	0.0026
rs34362479	18	35,106,736 C	G	0.949	0.0181	0.0024
rs4261877	3	50,692,394 C	G	0.5248	0.0080	0.0010
rs139872934	2	107,543,830 T	C	0.0912	0.0138	0.0018
rs73676288	7	11,959,827 A	C	0.3383	0.0097	0.0013
rs9321394	6	99,600,083 A	G	0.2485	0.0092	0.0012
rs10006551	4	105,433,088 T	C	0.5439	0.0080	0.0011
rs17276956	8	13,979,875 A	C	0.5213	-0.0080	0.0010
rs62092937	18	48,748,903 T	C	0.4459	-0.0080	0.0011
rs1904132	5	117,234,026 T	C	0.3304	-0.0085	0.0011
rs6867285	5	60,521,741 T	C	0.1831	-0.0103	0.0014
rs9384761	6	97,369,078 A	G	0.2411	-0.0093	0.0012
rs10204322	2	166,244,681 A	G	0.3172	-0.0085	0.0011
rs13247375	7	18,183,650 T	C	0.2062	-0.0098	0.0013
rs17557610	13	69,126,008 T	C	0.197	-0.0100	0.0013
rs573834	2	166,971,191 A	C	0.1382	-0.0115	0.0015
rs11227217	11	65,307,402 T	C	0.2059	-0.0098	0.0013
rs2097532	1	20,551,745 T	C	0.6437	0.0083	0.0011
rs565960	1	175,850,823 T	C	0.7114	0.0087	0.0012
rs2319989	17	50,691,493 A	T	0.8172	0.0102	0.0014
rs117873454	11	66,102,557 T	C	0.0466	0.0189	0.0025
rs59903549	6	156,448,341 T	C	0.0752	-0.0150	0.0020
rs3936100	18	5,872,442 T	G	0.3674	0.0082	0.0011
rs4652548	1	180,954,130 T	C	0.5889	0.0080	0.0011
rs1182532	20	58,393,545 A	C	0.1549	0.0111	0.0015
rs62179650	2	189,135,884 A	G	0.2979	0.0087	0.0012
rs12339610	9	121,922,801 T	C	0.7401	0.0090	0.0012
rs79431768	5	86,959,865 C	G	0.9035	0.0134	0.0018
rs12914489	15	74,187,937 A	G	0.1035	-0.0130	0.0017
rs2298679	21	35,247,460 T	C	0.2051	-0.0098	0.0013
rs2212940	1	91,103,227 A	G	0.3966	-0.0081	0.0011
rs10906209	10	12,740,082 A	C	0.4583	-0.0080	0.0011

rs1519799	2	157,064,317	A	T	0.5792	0.0080	0.0011
rs4538748	6	32,657,505	T	C	0.6125	0.0082	0.0011
rs9465509	6	19,744,129	A	G	0.4815	-0.0079	0.0010
rs6737433	2	1,903,987	C	G	0.7747	0.0095	0.0013
rs7641534	3	139,700,752	T	C	0.4567	-0.0079	0.0011
rs73411780	12	122,204,870	T	C	0.9481	0.0178	0.0024
rs72771835	5	87,736,334	A	T	0.0729	0.0152	0.0020
rs10419571	19	4,499,976	T	C	0.6825	-0.0085	0.0011
rs10445864	2	115,929,277	A	G	0.6052	-0.0081	0.0011
rs6028103	20	59,886,152	T	C	0.8264	0.0104	0.0014
rs35482321	16	1,255,832	T	C	0.3103	-0.0086	0.0011
rs11861256	16	48,747,433	A	C	0.191	0.0100	0.0013
rs71421657	2	233,583,662	T	C	0.9273	0.0153	0.0020
rs17721326	8	139,310,138	T	C	0.2951	0.0087	0.0011
rs2999158	1	113,239,478	T	C	0.3324	0.0084	0.0011
rs2011074	5	88,741,059	T	C	0.3521	0.0083	0.0011
rs801563	5	134,984,992	T	C	0.2112	-0.0097	0.0013
rs7121640	11	116,155,104	C	G	0.4199	0.0080	0.0011
rs9595590	13	47,642,196	A	T	0.4883	0.0079	0.0010
rs62238582	3	18,627,969	A	G	0.1053	-0.0128	0.0017
rs10145770	14	28,733,956	A	G	0.2145	-0.0096	0.0013
rs117623405	19	32,204,489	A	G	0.8515	-0.0111	0.0015
rs164938	3	10,315,103	T	G	0.3936	-0.0081	0.0011
rs6425839	1	34,262,167	T	G	0.5082	0.0079	0.0010
rs211283	10	32,331,161	C	G	0.24	-0.0092	0.0012
rs10811892	9	23,342,278	T	C	0.0463	-0.0190	0.0025
rs2283070	7	126,393,180	T	C	0.4098	0.0080	0.0011
rs8012614	14	73,954,464	A	C	0.4996	-0.0079	0.0010
rs6901175	6	32,198,527	A	G	0.1329	-0.0118	0.0016
rs9807112	18	52,541,788	T	C	0.6859	-0.0085	0.0011
rs2931203	2	240,324,316	A	T	0.7566	-0.0092	0.0012
rs79556505	6	145,634,441	T	C	0.8995	-0.0131	0.0017
rs1944386	18	36,037,621	T	C	0.6447	-0.0082	0.0011
rs6880251	5	149,652,000	T	C	0.2305	-0.0094	0.0012
rs2241908	11	62,555,242	A	G	0.6594	0.0083	0.0011
rs149662	14	72,639,496	T	C	0.1887	0.0101	0.0013
rs2303929	7	150,761,314	A	G	0.2329	0.0093	0.0012
rs10204051	2	103,775,435	T	G	0.408	-0.0080	0.0011
rs16854920	1	204,966,170	T	C	0.6632	-0.0083	0.0011
rs4449378	4	170,283,961	T	C	0.6128	-0.0081	0.0011
rs115802105	1	150,053,389	T	C	0.954	-0.0191	0.0025
rs795540	5	13,817,984	T	C	0.5854	-0.0080	0.0011
rs62301644	4	22,215,147	A	G	0.0906	0.0137	0.0018
rs28597883	16	82,647,566	C	G	0.4551	0.0079	0.0011
rs838041	2	140,315,378	T	C	0.352	-0.0082	0.0011
rs35209304	19	36,175,055	T	C	0.1915	0.0100	0.0013
rs6450460	5	57,323,145	C	G	0.2066	0.0097	0.0013
rs61908920	11	134,454,235	A	T	0.1603	0.0107	0.0014

rs7544544	1	105,842,991	A	C	0.6316	0.0081	0.0011
rs13246220	7	39,324,253	T	G	0.6154	-0.0081	0.0011
rs2607505	5	52,976,955	C	G	0.6865	-0.0085	0.0011
rs18737064	3	48,512,188	A	C	0.0099	0.0458	0.0061
rs1670459	11	76,998,753	C	G	0.6083	-0.0080	0.0011
rs28741121	22	42,025,823	A	G	0.166	0.0106	0.0014
rs9380237	6	31,264,392	A	G	0.27	-0.0090	0.0012
rs2183271	10	21,957,229	T	C	0.6284	0.0082	0.0011
rs74078214	14	98,501,547	A	T	0.2842	-0.0087	0.0012
rs2242265	8	145,667,354	A	C	0.5313	0.0079	0.0011
rs17760286	6	98,763,844	A	C	0.0501	-0.0211	0.0028
rs18970704	1	169,160,349	A	C	0.3983	0.0093	0.0012
rs114440021	21	34,202,672	T	C	0.114	0.0123	0.0016
rs13872384	2	51,535,906	A	G	0.9783	-0.0269	0.0036
rs259812	2	180,787,654	A	C	0.6949	0.0085	0.0011
rs544565	9	14,068,504	T	G	0.3056	0.0085	0.0011
rs7515450	1	78,582,845	A	T	0.3917	0.0080	0.0011
rs4586770	3	79,591,854	T	C	0.3983	-0.0080	0.0011
rs6535025	4	135,457,628	A	G	0.1976	-0.0098	0.0013
rs7796089	7	77,512,098	C	G	0.3381	-0.0083	0.0011
rs1884368	1	61,839,973	T	C	0.2472	0.0091	0.0012
rs2204506	2	124,196,072	A	G	0.5657	0.0079	0.0011
rs74740938	10	66,921,055	A	T	0.1186	0.0121	0.0016
rs61226201	2	29,060,630	A	T	0.4227	0.0091	0.0012
rs947091	10	31,054,186	A	G	0.4799	-0.0078	0.0010
rs13030436	2	23,301,140	T	C	0.434	0.0079	0.0011
rs11209894	1	41,798,668	A	G	0.1336	0.0115	0.0015
rs8047204	16	89,766,063	A	G	0.6296	0.0081	0.0011
rs9276822	6	32,829,320	A	C	0.101	0.0130	0.0017
rs6907381	6	11,972,512	A	G	0.1237	-0.0118	0.0016
rs12064553	1	212,397,008	A	T	0.2278	0.0093	0.0012
rs78873173	2	80,414,593	A	G	0.0811	0.0143	0.0019
rs17234990	3	7,195,141	T	C	0.6802	-0.0084	0.0011
rs7073711	10	10,884,232	A	G	0.8514	0.0110	0.0015
rs11653258	17	44,017,725	T	G	0.2287	0.0094	0.0013
rs225285	17	33,931,084	C	G	0.729	-0.0088	0.0012
rs3020326	6	152,295,185	A	T	0.6944	0.0085	0.0011
rs1338721	1	66,690,704	A	G	0.4661	-0.0078	0.0010
rs1361580	13	81,291,962	C	G	0.2066	0.0096	0.0013
rs75795256	3	82,998,151	T	C	0.9086	-0.0136	0.0018
rs13785839	1	96,454,977	A	G	0.9333	0.0156	0.0021
rs1638526	17	19,848,450	T	C	0.7414	0.0089	0.0012
rs6448740	4	31,053,009	C	G	0.5077	-0.0078	0.0010
rs7936656	11	76,203,671	A	G	0.3202	-0.0083	0.0011
rs2283250	11	17,820,177	A	G	0.4843	-0.0078	0.0010
rs13085461	3	24,950,387	C	G	0.4744	0.0078	0.0010
rs73185898	7	101,727,633	C	G	0.8155	0.0109	0.0015
rs62156740	2	98,875,977	A	T	0.9812	-0.0288	0.0039

rs35912643	1	107,015,493	C	G	0.8483	-0.0108	0.0015
rs11622954	14	57,434,866	T	C	0.2813	-0.0086	0.0012
rs1408284	6	93,893,586	C	G	0.8614	-0.0112	0.0015
rs12589471	14	72,295,890	A	T	0.3841	-0.0080	0.0011
rs11652522	17	43,055,579	A	C	0.1082	-0.0125	0.0017
rs9277988	6	33,306,235	T	C	0.8018	0.0098	0.0013
rs13389012	2	156,636,497	T	C	0.6639	0.0082	0.0011
rs4741510	9	15,591,372	A	T	0.4163	0.0079	0.0011
rs72802661	5	153,031,177	A	C	0.0231	-0.0259	0.0035
rs117736305	10	106,229,405	A	G	0.0556	-0.0170	0.0023
rs10180485	2	51,322,168	T	G	0.879	0.0119	0.0016
rs537342	1	89,099,222	T	C	0.4215	-0.0079	0.0011
rs444944	3	13,117,999	A	G	0.4692	-0.0078	0.0011
rs1648404	4	37,175,523	T	C	0.4732	0.0078	0.0010
rs12202891	6	12,768,218	T	C	0.1729	0.0104	0.0014
rs8055491	16	52,824,235	A	G	0.4648	-0.0078	0.0010
rs8061672	16	61,787,127	T	C	0.4375	-0.0078	0.0011
rs1935309	6	14,612,872	T	G	0.8964	0.0127	0.0017
rs41379545	14	84,477,713	T	C	0.081	-0.0142	0.0019
rs1039617	3	136,985,329	T	C	0.4177	-0.0078	0.0011
rs9454264	6	68,447,698	T	C	0.4693	0.0078	0.0011
rs115124024	12	2,365,908	A	C	0.9505	0.0178	0.0024
rs10863816	1	210,398,242	A	G	0.2874	0.0085	0.0012
rs860973	20	58,247,236	T	C	0.1846	0.0100	0.0014
rs10099657	8	69,202,702	A	G	0.654	-0.0081	0.0011
rs1934619	1	210,896,752	A	G	0.2808	-0.0086	0.0012
rs1128956	4	183,724,005	T	G	0.8262	-0.0102	0.0014
rs4869852	6	155,622,481	T	C	0.6625	-0.0082	0.0011
rs1378893	15	51,964,788	A	G	0.2379	0.0091	0.0012
rs7801226	7	104,460,733	A	T	0.7582	0.0090	0.0012
rs11589723	1	69,328,993	T	C	0.8976	-0.0127	0.0017
rs79994966	16	53,823,727	T	C	0.6087	-0.0079	0.0011
rs4262652	10	74,127,853	A	G	0.6331	-0.0081	0.0011
rs9937449	16	78,171,376	T	C	0.5553	0.0078	0.0011
rs10086297	8	119,480,487	C	G	0.5167	0.0077	0.0010
rs72720394	1	91,178,627	A	G	0.0592	-0.0164	0.0022
rs1207953	13	32,977,532	C	G	0.619	-0.0080	0.0011
rs852000	6	152,001,626	T	C	0.4688	0.0077	0.0010
rs9749921	2	193,599,394	C	G	0.4814	0.0077	0.0010
rs1430143	2	183,356,945	A	C	0.6192	0.0079	0.0011
rs10765775	11	95,656,362	A	G	0.3878	0.0159	0.0022
rs2669890	3	114,333,798	A	T	0.2176	0.0093	0.0013
rs7297828	12	26,675,954	A	G	0.7384	0.0088	0.0012
rs12808630	11	70,483,581	A	G	0.2426	-0.0090	0.0012
rs6757087	2	212,680,523	T	G	0.5716	-0.0078	0.0011
rs12538157	7	54,351,110	A	T	0.6746	-0.0082	0.0011
rs2459338	2	13,050,027	A	G	0.484	0.0077	0.0010
rs11709621	3	72,344,601	T	C	0.2031	-0.0096	0.0013

rs11731597	4	10,075,485	T	C	0.2947	0.0084	0.0011
rs17743339	10	75,860,098	A	G	0.2476	0.0089	0.0012
rs9753040	2	51,050,302	T	C	0.5084	-0.0077	0.0010
rs58996896	2	123,735,005	A	G	0.7466	-0.0088	0.0012
rs4697062	4	24,483,311	T	C	0.4365	0.0078	0.0011
rs72898028	18	38,979,355	T	C	0.0355	0.0209	0.0028
rs6580068	5	153,673,621	T	C	0.2188	-0.0093	0.0013
rs2980813	8	40,050,010	A	T	0.4696	0.0077	0.0010
rs2676507	2	173,729,572	A	G	0.3179	0.0083	0.0011
rs142641056	16	62,117,384	A	C	0.0088	0.0419	0.0057
rs4782779	16	83,402,943	A	G	0.3635	-0.0080	0.0011
rs10914136	1	180,896,930	C	G	0.5381	-0.0077	0.0011
rs10954780	8	31,021,717	C	G	0.4902	-0.0077	0.0010
rs7762296	6	170,042,465	T	C	0.305	-0.0084	0.0011
rs537065442	3	49,615,202	A	G	0.9867	-0.0355	0.0048
rs7865184	9	14,687,867	A	G	0.5873	0.0078	0.0011
rs336433	8	577,101	A	G	0.4398	0.0077	0.0011
rs7296742	12	95,147,249	A	G	0.2849	-0.0086	0.0012
rs2610044	8	57,415,829	A	T	0.4556	0.0077	0.0011
rs11148415	13	58,266,614	C	G	0.7101	-0.0085	0.0012
rs2321157	13	58,736,901	A	G	0.5284	-0.0077	0.0010
rs66770912	2	60,945,703	T	C	0.2624	0.0087	0.0012
rs10994470	10	51,558,660	A	G	0.039	0.0200	0.0027
rs11775016	8	118,810,647	A	T	0.0967	-0.0130	0.0018
rs4730020	7	104,189,082	T	C	0.2687	0.0087	0.0012
rs7578247	2	128,562,813	A	G	0.6377	-0.0080	0.0011
rs75672140	14	57,336,842	A	C	0.0414	0.0193	0.0026
rs8011681	14	101,541,337	T	G	0.4624	-0.0077	0.0011
rs4341632	13	97,081,244	A	G	0.1225	0.0117	0.0016
rs73207502	13	58,359,289	T	C	0.0271	-0.0240	0.0033
rs134545	22	28,799,080	T	C	0.6426	-0.0080	0.0011
rs719839	12	12,819,861	A	T	0.5271	-0.0077	0.0010
rs2332752	14	72,552,726	C	G	0.9121	0.0136	0.0019
rs73055556	3	28,027,538	A	G	0.1377	0.0111	0.0015
rs1811835	16	1,379,555	T	C	0.1157	0.0120	0.0016
rs4846724	1	221,967,817	A	G	0.5326	0.0077	0.0010
rs7563343	2	144,337,145	T	C	0.2195	-0.0092	0.0013
rs10884009	10	106,273,778	C	G	0.7876	0.0094	0.0013
rs16919774	12	32,502,505	A	T	0.7873	-0.0093	0.0013
rs113389222	3	34,215,436	T	C	0.1217	-0.0117	0.0016
rs56188374	4	158,860,186	A	G	0.0827	-0.0141	0.0019
rs6480151	10	67,994,452	A	T	0.7639	0.0090	0.0012
rs11925699	3	193,321,115	A	G	0.4667	-0.0077	0.0010
rs2629540	10	126,426,148	C	G	0.2457	0.0089	0.0012
rs1880692	11	80,338,069	A	G	0.5376	0.0077	0.0010
rs2047229	12	56,783,240	T	C	0.2872	-0.0086	0.0012
rs675806	18	41,753,928	A	C	0.3454	-0.0080	0.0011
rs737902	7	95,138,755	A	G	0.2745	-0.0086	0.0012

rs4675248	2	202,880,230	A	G	0.3952	-0.0078	0.0011
rs231178	4	2,751,772	T	C	0.2978	0.0084	0.0011
rs4272628	1	189,603,032	A	G	0.525	-0.0076	0.0010
rs232464	21	22,695,321	T	C	0.2226	0.0092	0.0013
rs117588584	12	26,510,514	T	C	0.0917	-0.0132	0.0018
rs9291467	4	25,428,296	T	C	0.4587	-0.0077	0.0011
rs72842507	5	169,296,821	T	C	0.1033	0.0125	0.0017
rs188192	16	28,131,510	A	C	0.2938	0.0084	0.0011
rs3851013	16	12,218,083	A	G	0.1688	-0.0102	0.0014
rs10754918	2	144,142,749	A	G	0.1832	-0.0099	0.0014
rs489408	1	38,243,785	A	G	0.4529	0.0077	0.0011
rs11746390	5	137,085,233	T	C	0.7315	-0.0086	0.0012
rs646384	11	63,875,456	A	G	0.8032	-0.0096	0.0013
rs78655387	11	121,343,435	T	C	0.0271	-0.0239	0.0033
rs1961225	15	36,127,236	T	C	0.4208	0.0077	0.0011
rs13065045	3	21,065,052	A	C	0.531	-0.0076	0.0010
rs61747226	15	98,512,431	T	C	0.0434	-0.0189	0.0026
rs7137535	12	23,945,031	T	C	0.8639	-0.0112	0.0015
rs72784111	5	106,631,814	T	C	0.913	-0.0135	0.0019
rs9809578	3	106,091,984	A	G	0.4423	0.0077	0.0011
rs28568334	1	75,199,299	C	G	0.3203	0.0082	0.0011
rs37903	7	122,411,623	A	G	0.8601	0.0110	0.0015
rs2473351	1	15,742,689	T	C	0.7551	0.0088	0.0012
rs72625841	3	21,430,442	T	G	0.7383	0.0086	0.0012
rs17212552	2	124,836,896	T	C	0.1101	0.0122	0.0017
rs2220468	9	11,190,741	A	T	0.3118	0.0082	0.0011
rs9920297	15	69,955,716	T	C	0.6338	0.0079	0.0011
rs114055010	6	30,527,296	C	G	0.9852	-0.0321	0.0044
rs10970007	9	3,107,295	T	C	0.6773	-0.0081	0.0011
rs75854315	1	156,223,056	A	G	0.0594	-0.0162	0.0022
rs113003165	7	2,150,450	A	G	0.027	0.0236	0.0033
rs4483480	10	68,524,871	T	C	0.4256	-0.0077	0.0011
rs2270952	18	51,052,896	A	T	0.1107	0.0121	0.0017
rs1389618	10	31,175,837	A	G	0.426	-0.0077	0.0011
rs4488350	13	58,234,226	A	C	0.5794	-0.0077	0.0011
rs74833567	8	110,201,408	A	G	0.0976	0.0128	0.0018
rs34080199	15	77,812,028	A	G	0.9516	0.0180	0.0025
rs1396558	9	106,413,885	A	G	0.4505	-0.0076	0.0011
rs4279337	5	124,284,656	A	T	0.2589	0.0087	0.0012
rs10762199	10	70,030,464	T	C	0.7649	0.0089	0.0012
rs7598465	2	139,639,576	A	T	0.5373	-0.0076	0.0011
rs55876360	5	107,145,324	T	G	0.8669	0.0112	0.0015
rs13015323	2	125,291,034	A	C	0.4435	0.0076	0.0011
rs79997166	2	161,808,690	A	C	0.9342	0.0154	0.0021
rs6547396	2	82,132,940	T	C	0.5972	0.0077	0.0011
rs73034295	11	133,822,133	A	G	0.1982	0.0095	0.0013
rs12065238	1	166,101,602	A	G	0.1696	0.0101	0.0014
rs11672103	19	9,942,810	T	C	0.5447	-0.0076	0.0011

rs149285517	4	147,914,507	T	C	0.1149	-0.0119	0.0016
rs74843685	15	38,684,877	T	G	0.9253	-0.0144	0.0020
rs72833096	17	55,655,932	C	G	0.1481	-0.0107	0.0015
rs7660231	4	174,017,709	A	T	0.7062	0.0083	0.0011
rs34410	5	107,469,684	C	G	0.4624	-0.0076	0.0010
rs62241756	3	20,281,021	C	G	0.8442	-0.0104	0.0014
rs12893970	14	56,474,502	A	G	0.0983	-0.0127	0.0018
rs1485299	8	120,082,104	T	C	0.3229	-0.0081	0.0011
rs11757278	6	13,180,454	T	C	0.6931	-0.0082	0.0011
rs11748392	5	58,772,631	T	C	0.9244	-0.0143	0.0020
rs2582974	2	104,578,923	T	C	0.4021	-0.0084	0.0012
rs1564860	8	119,975,670	T	C	0.3051	0.0082	0.0011
rs41311445	22	42,070,374	A	C	0.901	0.0127	0.0018
rs74944275	5	102,726,073	T	C	0.0417	0.0190	0.0026
rs627685	18	53,186,092	T	C	0.6986	0.0082	0.0011
rs2238483	16	22,860,975	A	G	0.8309	0.0101	0.0014
rs57408535	5	122,813,029	A	T	0.518	0.0076	0.0010
rs7146843	14	91,544,192	A	G	0.2408	0.0089	0.0012
rs7148559	14	42,765,294	A	G	0.4843	0.0076	0.0010
rs4888444	16	75,690,279	A	G	0.9553	-0.0183	0.0025
rs4545434	10	64,875,745	T	C	0.8147	0.0097	0.0013
rs17207277	5	7,368,134	A	T	0.812	-0.0097	0.0013
rs7195329	16	51,590,733	A	G	0.2635	0.0086	0.0012
rs62183418	2	176,233,578	A	G	0.8881	0.0120	0.0017
rs10821992	10	64,163,029	A	T	0.3412	-0.0080	0.0011
rs1108130	13	100,648,356	A	T	0.2121	-0.0092	0.0013
rs1387148	4	19,590,971	A	C	0.1982	-0.0095	0.0013
rs74439972	19	13,285,834	A	G	0.2666	0.0087	0.0012
rs7107378	11	111,401,840	A	C	0.3631	0.0078	0.0011
rs66513368	16	82,833,448	A	G	0.9002	0.0126	0.0017
rs143756010	3	49,312,248	T	C	0.0409	-0.0191	0.0027
rs75443990	8	4,826,197	A	C	0.1048	0.0123	0.0017
rs2413005	22	31,405,191	T	C	0.3118	0.0081	0.0011
rs67374027	2	157,520,186	A	T	0.2338	-0.0089	0.0012
rs74453875	3	52,046,707	A	G	0.0377	0.0199	0.0028
rs1867011	3	3,760,767	A	G	0.1896	0.0097	0.0013
rs35181444	14	101,912,518	T	C	0.258	0.0086	0.0012
rs11822787	11	87,905,860	T	C	0.4435	-0.0076	0.0011
rs703482	10	106,889,202	C	G	0.1554	-0.0104	0.0014
rs11756638	6	27,187,414	T	C	0.9387	-0.0157	0.0022
rs111357343	2	172,616,423	A	G	0.2962	0.0082	0.0011
rs13125074	4	91,808,902	A	G	0.2328	0.0089	0.0012
rs9556587	13	97,079,618	A	G	0.6594	0.0079	0.0011
rs1888765	10	23,943,839	C	G	0.7758	0.0090	0.0013
rs477723	11	78,554,599	T	C	0.3745	0.0078	0.0011
rs62232802	3	13,338,289	A	C	0.174	0.0099	0.0014
rs1740190	21	19,919,453	A	C	0.7035	0.0082	0.0011
rs28500769	16	58,714,819	C	G	0.7478	-0.0086	0.0012

rs1973419	13	97,976,147 T	C	0.4903	0.0075	0.0010
rs61768375	1	44,153,132 T	C	0.974	0.0237	0.0033
rs7184911	16	7,670,326 A	C	0.5722	0.0076	0.0011
rs12071311	1	69,125,112 C	G	0.9542	0.0182	0.0025
rs79805373	14	69,736,557 A	G	0.069	-0.0149	0.0021
rs2546944	5	167,453,285 T	C	0.6613	0.0079	0.0011
rs76157199	2	98,541,874 A	G	0.9638	0.0202	0.0028
rs6717332	2	58,446,080 T	G	0.9002	-0.0125	0.0017
rs6533225	4	78,642,389 C	G	0.5377	0.0075	0.0011
rs2065057	22	27,975,321 A	T	0.7055	0.0082	0.0011
rs14136746	3	53,381,546 T	C	0.9907	0.0405	0.0057
rs7523793	1	242,253,024 T	C	0.6384	0.0078	0.0011
rs2061485	10	62,105,627 T	C	0.5122	0.0075	0.0010
rs9400864	6	115,956,800 T	C	0.6792	0.0080	0.0011
rs10897561	11	79,898,660 T	C	0.6491	0.0078	0.0011
rs826374	3	24,163,921 A	C	0.7718	-0.0089	0.0012
rs7468947	9	124,978,011 A	G	0.233	-0.0089	0.0012
rs1125854	7	131,927,170 T	C	0.3726	-0.0077	0.0011
rs76928788	3	46,949,112 A	G	0.0141	-0.0324	0.0045
rs1407350	9	10,246,520 T	G	0.651	0.0078	0.0011
rs67856516	1	28,697,135 A	C	0.3091	-0.0088	0.0012
rs11692567	7	112,923,416 T	C	0.0267	-0.0232	0.0033
rs59234174	9	16,730,258 T	C	0.1566	-0.0103	0.0014
rs7714719	5	106,498,927 C	G	0.8629	0.0109	0.0015
rs10184275	2	166,127,928 A	G	0.817	-0.0097	0.0014
rs17330744	5	60,079,381 A	G	0.9712	-0.0227	0.0032
rs4662382	2	145,348,057 T	C	0.1286	-0.0112	0.0016
rs68174505	22	51,108,072 A	G	0.2025	-0.0093	0.0013
rs1950265	14	78,594,765 A	C	0.4382	0.0075	0.0011
rs28603130	3	183,950,306 C	G	0.7492	0.0086	0.0012
rs17092597	14	57,445,718 A	G	0.0506	0.0171	0.0024
rs76370448	2	142,164,351 A	G	0.1065	0.0121	0.0017
rs9471333	6	40,362,023 T	C	0.5657	0.0075	0.0011
rs10157166	1	214,484,950 T	C	0.4028	-0.0076	0.0011
rs6661183	1	73,717,809 A	T	0.2716	0.0084	0.0012
rs74694981	2	229,196,902 T	G	0.9559	-0.0182	0.0025
rs238257	13	42,924,883 C	G	0.4816	0.0075	0.0010
rs4904523	14	89,723,630 A	G	0.5176	-0.0075	0.0010
rs28617748	17	27,712,493 A	T	0.6595	0.0091	0.0013
rs72719197	1	93,881,677 T	C	0.0308	-0.0217	0.0030
rs12142570	1	11,520,209 A	T	0.8331	0.0100	0.0014
rs7131691	12	64,540,960 A	G	0.4705	-0.0075	0.0011
rs3751667	16	1,004,554 T	C	0.2291	-0.0089	0.0012
rs9426674	1	21,957,239 C	G	0.3976	-0.0076	0.0011
rs9320991	6	124,763,785 T	C	0.1974	0.0094	0.0013
rs118067691	12	56,493,021 T	G	0.9569	-0.0186	0.0026
rs909892	20	41,982,698 A	G	0.1357	0.0109	0.0015
rs7072915	10	134,011,293 T	G	0.5414	0.0075	0.0011

rs9468199	6	27,681,215	A	G	0.1774	-0.0105	0.0015
rs6926377	6	145,105,354	A	C	0.693	0.0081	0.0011
rs2179403	6	23,495,260	T	C	0.6999	0.0081	0.0011
rs1937526	13	68,046,162	T	C	0.3785	0.0077	0.0011
rs72944032	18	63,501,972	A	G	0.2527	0.0086	0.0012
rs355579	2	142,379,398	A	G	0.0704	-0.0145	0.0020
rs7928622	11	11,670,871	A	T	0.6768	-0.0079	0.0011
rs35565533	12	107,730,500	A	C	0.7349	0.0084	0.0012
rs61578424	3	54,160,326	T	G	0.1502	-0.0104	0.0015
rs2736752	3	60,817,322	T	G	0.784	0.0090	0.0013
rs13238939	7	21,685,861	T	C	0.5065	-0.0074	0.0010
rs17639442	13	57,577,138	T	G	0.9161	-0.0134	0.0019
rs386207	7	101,791,489	A	T	0.1176	-0.0115	0.0016
rs1861786	12	14,000,467	A	G	0.3807	-0.0076	0.0011
rs2451381	6	34,003,336	A	T	0.217	-0.0091	0.0013
rs853286	3	64,285,502	T	G	0.8908	0.0119	0.0017
rs13078603	3	73,064,367	A	G	0.3962	0.0076	0.0011
rs55640000	20	22,310,689	T	G	0.6425	-0.0077	0.0011
rs17311988	5	92,994,868	T	C	0.0191	-0.0275	0.0039
rs17675734	2	148,379,965	A	C	0.7878	-0.0091	0.0013
rs11891018	2	225,699,967	A	T	0.316	0.0080	0.0011
rs6587843	1	59,540,811	T	C	0.4833	0.0074	0.0010
rs2177083	2	202,961,665	A	G	0.5095	-0.0074	0.0010
rs12928216	16	26,167,059	A	G	0.4299	0.0075	0.0011
rs1389997	21	19,046,075	T	G	0.3238	0.0079	0.0011
rs11715034	3	51,409,600	T	C	0.6559	0.0078	0.0011
rs34984805	17	9,987,091	T	C	0.5151	0.0074	0.0010
rs1969794	13	99,090,168	T	G	0.3299	-0.0083	0.0012
rs11857810	15	51,396,571	A	G	0.3924	0.0076	0.0011
rs1532312	11	84,841,573	T	C	0.2954	0.0081	0.0011
rs56852527	11	46,048,384	T	C	0.2054	0.0092	0.0013
rs11686212	2	3,392,295	A	G	0.6288	-0.0077	0.0011
rs1117310	14	56,686,732	A	G	0.4616	0.0074	0.0010
rs72883760	11	29,331,969	A	G	0.2016	0.0092	0.0013
rs2988061	9	92,163,132	A	G	0.4024	-0.0075	0.0011
rs13376365	1	197,890,802	T	C	0.7878	0.0090	0.0013
rs11116176	12	84,434,919	T	G	0.2352	0.0087	0.0012
rs181072050	1	93,665,006	A	G	0.9108	0.0142	0.0020
rs752806	11	126,293,239	A	T	0.471	-0.0074	0.0011
rs13048654	21	34,449,397	C	G	0.7477	-0.0085	0.0012
rs9591001	13	33,042,870	A	G	0.365	0.0077	0.0011
rs6500680	16	5,370,784	A	G	0.1145	-0.0116	0.0016
rs7750668	6	162,466,900	T	G	0.3203	0.0079	0.0011
rs73047060	7	2,084,351	T	C	0.0253	0.0236	0.0033
rs11122148	1	6,848,505	A	C	0.1561	0.0102	0.0014
rs568332442	7	2,278,587	A	G	0.9592	0.0216	0.0031
rs112365238	12	123,283,537	A	G	0.0325	0.0211	0.0030
rs9640815	7	79,589,734	C	G	0.8021	-0.0093	0.0013

rs6772753	3	137,318,965	A	G	0.5431	0.0074	0.0011
rs72887889	18	22,402,325	A	T	0.8083	-0.0094	0.0013
rs6795586	3	160,897,701	T	G	0.6825	-0.0079	0.0011
rs1537933	13	102,923,847	A	G	0.7138	0.0082	0.0012
rs163523	2	45,157,427	A	G	0.9771	-0.0247	0.0035
rs13009915	2	100,423,158	T	C	0.0421	0.0185	0.0026
rs705985	8	64,736,379	T	G	0.6046	-0.0075	0.0011
rs10167909	2	133,512,171	T	C	0.2147	0.0090	0.0013
rs1372086	2	230,714,025	A	G	0.8461	-0.0102	0.0015
rs56826720	16	14,731,391	A	C	0.2979	0.0081	0.0011
rs18892202	14	29,619,586	A	T	0.0148	-0.0306	0.0044
rs18429256	2	10,947,750	T	G	0.012	0.0350	0.0050
rs6801153	3	24,113,697	T	C	0.2439	-0.0086	0.0012
rs75564433	3	81,948,615	T	C	0.0601	0.0155	0.0022
rs7655988	4	66,527,955	T	C	0.3809	-0.0076	0.0011
rs4925093	17	17,568,946	T	G	0.482	-0.0074	0.0010
rs11165615	3	85,934,274	A	T	0.0424	0.0183	0.0026
rs2098322	14	73,393,284	A	G	0.5067	-0.0074	0.0011
rs2857211	6	32,740,442	A	G	0.3363	0.0078	0.0011
rs73009622	2	154,649,316	C	G	0.1005	-0.0122	0.0017
rs1585229	8	87,856,610	A	G	0.42	-0.0074	0.0011
rs4809393	20	62,701,092	A	C	0.6655	0.0078	0.0011
rs10499146	6	129,330,021	A	G	0.1332	0.0108	0.0015
rs785490	1	46,577,124	T	C	0.2899	0.0081	0.0012
rs62525923	8	131,284,632	T	C	0.3908	0.0075	0.0011
rs540730	12	57,807,114	T	C	0.2363	-0.0087	0.0012
rs7397905	12	101,537,184	A	G	0.8347	0.0099	0.0014
rs2297293	21	47,125,046	C	G	0.3161	0.0079	0.0011
rs514092	1	110,761,283	T	C	0.6323	-0.0076	0.0011
rs4621481	4	32,160,307	T	G	0.7149	0.0081	0.0012
rs12232376	16	49,884,056	A	G	0.3025	0.0080	0.0011
rs77997837	16	4,944,256	T	C	0.2276	0.0088	0.0012
rs6916517	6	100,322,418	T	C	0.2706	0.0083	0.0012
rs79766835	2	62,710,273	C	G	0.0969	0.0124	0.0018
rs7777843	7	11,761,455	C	G	0.5712	-0.0074	0.0011
rs11772108	7	54,711,985	A	T	0.7214	-0.0082	0.0012
rs1916976	7	113,989,569	T	C	0.0885	-0.0129	0.0018
rs6911986	6	52,857,694	T	C	0.2682	-0.0083	0.0012
rs204993	6	32,155,581	A	G	0.7262	0.0083	0.0012
rs11437129	3	48,406,286	T	C	0.9543	0.0177	0.0025
rs11257909	20	34,530,095	T	C	0.0724	0.0142	0.0020
rs35742190	1	183,679,666	T	G	0.4867	0.0073	0.0010
rs13008966	2	144,117,605	A	C	0.7646	-0.0086	0.0012
rs4493405	3	141,645,747	A	G	0.5317	0.0073	0.0010
rs3123344	6	98,852,218	A	T	0.5938	-0.0075	0.0011
rs7975065	12	62,680,603	A	G	0.3058	0.0080	0.0011
rs6044142	20	16,559,255	A	G	0.5694	-0.0074	0.0011
rs9976560	21	44,038,275	C	G	0.7497	0.0085	0.0012

rs1948897	4	139,710,494	A	G	0.5555	-0.0074	0.0011
rs142747148	13	58,271,461	A	G	0.9807	0.0267	0.0038
rs35483472	15	34,653,914	T	C	0.3808	-0.0076	0.0011
rs9888861	16	75,932,594	A	T	0.7509	-0.0085	0.0012
rs7815299	8	91,228,035	C	G	0.6699	0.0078	0.0011
rs9356513	6	167,124,744	A	C	0.7076	-0.0085	0.0012
rs11734446	4	29,091,405	C	G	0.7381	-0.0083	0.0012
rs13001925	2	49,558,691	A	G	0.5944	0.0075	0.0011
rs11179786	12	74,159,265	T	C	0.5842	-0.0074	0.0011
rs13106702	4	15,397,450	A	G	0.6384	-0.0076	0.0011
rs7598185	2	59,952,259	A	C	0.3073	0.0079	0.0011
rs1130947	6	31,237,773	T	C	0.3354	0.0087	0.0012
rs12722889	1	77,420,020	A	T	0.5711	0.0074	0.0011
rs72843198	2	125,293,580	T	C	0.0482	0.0171	0.0024
rs17014412	12	87,475,757	A	G	0.0341	-0.0201	0.0029
rs2192639	16	9,595,000	C	G	0.1258	-0.0110	0.0016
rs3750450	9	111,945,049	T	G	0.2634	-0.0083	0.0012
rs12174903	6	41,864,135	A	C	0.7523	0.0085	0.0012
rs7014300	8	14,795,876	A	C	0.1935	0.0092	0.0013
rs2237316	7	24,761,968	T	G	0.2008	0.0091	0.0013
rs13332638	16	11,905,849	A	G	0.0862	-0.0130	0.0019
rs4140762	12	97,669,259	A	G	0.5207	0.0073	0.0010
rs4943290	13	31,836,367	T	G	0.2998	-0.0080	0.0011
rs17463127	5	160,952,502	A	T	0.7348	-0.0083	0.0012
rs174768	22	29,742,841	T	C	0.8562	0.0104	0.0015
rs4460271	7	32,496,503	T	C	0.6727	0.0078	0.0011
rs1889438	6	157,105,541	A	G	0.2804	-0.0081	0.0012
rs8006699	14	103,194,998	A	G	0.8263	0.0096	0.0014
rs3020410	6	152,266,377	A	C	0.1358	-0.0106	0.0015
rs8015454	14	67,739,285	T	C	0.9522	0.0171	0.0025
rs2631249	4	102,872,175	A	G	0.5676	0.0073	0.0011
rs2278474	4	184,831,976	T	G	0.5818	-0.0074	0.0011
rs2639655	3	158,385,966	C	G	0.8065	0.0092	0.0013
rs1007731	14	37,054,590	A	C	0.1187	-0.0113	0.0016
rs2466211	8	22,843,997	A	C	0.3972	-0.0074	0.0011
rs12646225	4	696,848	T	C	0.1099	0.0118	0.0017
rs75915571	6	114,723,478	A	T	0.1956	0.0092	0.0013
rs12602072	17	56,144,013	A	G	0.8141	0.0094	0.0013
rs56306348	14	36,876,908	A	G	0.6133	0.0075	0.0011
rs674962	1	234,835,705	C	G	0.3272	-0.0077	0.0011
rs8017691	14	75,092,905	A	C	0.4257	0.0073	0.0011
rs11011859	10	20,487,702	A	G	0.8828	0.0113	0.0016
rs17598373	14	79,815,516	T	C	0.5573	0.0073	0.0011
rs10510940	3	65,519,521	A	G	0.9045	-0.0124	0.0018
rs2824194	21	18,422,045	A	T	0.5035	0.0073	0.0010
rs2192694	2	59,084,676	T	C	0.7139	0.0080	0.0012
rs62442476	7	2,233,528	A	G	0.0348	0.0200	0.0029
rs66977236	7	77,315,783	A	G	0.3566	-0.0088	0.0013

rs2986017	10	105,218,252	A	G	0.2739	-0.0081	0.0012
rs56378598	16	90,004,868	T	C	0.2652	0.0083	0.0012
rs12155345	7	41,301,734	A	C	0.6689	0.0077	0.0011
rs116506968	2	183,551,471	A	G	0.0869	0.0130	0.0019
rs11752345	6	160,148,348	T	C	0.215	0.0089	0.0013
rs34034658	2	236,839,797	C	G	0.3796	0.0075	0.0011
rs10076155	5	57,567,125	T	C	0.24	-0.0085	0.0012
rs717112	11	41,162,903	A	G	0.1804	-0.0094	0.0014
rs10508274	10	4,115,602	A	G	0.8201	0.0094	0.0014
rs6495127	15	75,194,490	T	C	0.6959	0.0079	0.0011
rs12516990	5	145,927,688	C	G	0.2066	-0.0089	0.0013
rs73389891	7	54,367,170	A	G	0.0733	-0.0139	0.0020
rs6451704	5	43,475,862	T	C	0.5271	-0.0073	0.0010
rs77538769	12	122,187,824	A	C	0.9516	0.0195	0.0028
rs36120534	20	17,438,121	T	C	0.1819	0.0094	0.0014
rs5765717	22	44,917,646	T	G	0.4867	-0.0072	0.0010
rs11011932	10	20,576,790	T	C	0.2329	0.0086	0.0012
rs72744579	15	77,864,785	T	C	0.0491	0.0169	0.0024
rs6013574	20	51,563,060	T	C	0.0633	0.0149	0.0021
rs11192616	10	107,577,714	T	C	0.3543	0.0076	0.0011
rs4147707	2	207,024,107	C	G	0.4073	0.0074	0.0011
rs6909292	6	108,093,580	T	C	0.5169	0.0072	0.0010
rs351720	6	109,551,147	A	G	0.6851	-0.0078	0.0011
rs10521132	16	25,720,836	A	G	0.25	-0.0084	0.0012
rs2750097	20	49,729,130	A	G	0.5883	-0.0073	0.0011
rs975210	15	70,364,352	A	G	0.171	-0.0096	0.0014
rs1290505	1	163,680,402	A	G	0.41	0.0073	0.0011
rs7237773	18	50,779,810	A	C	0.9021	-0.0122	0.0018
rs252947	5	160,715,878	A	G	0.3319	0.0077	0.0011
rs72911669	2	193,797,227	C	G	0.0547	0.0162	0.0023
rs34140181	6	35,118,056	T	C	0.6821	0.0090	0.0013
rs899223	19	13,157,151	C	G	0.0811	0.0133	0.0019
rs139453187	7	72,155,834	T	C	0.9261	0.0140	0.0020
rs74664784	3	85,475,292	T	C	0.4365	-0.0084	0.0012
rs1883322	6	35,369,806	T	C	0.7538	0.0084	0.0012
rs7546304	1	151,114,484	C	G	0.3012	-0.0079	0.0011
rs792213	10	90,174,202	A	C	0.4133	0.0073	0.0011
rs17523342	11	115,311,131	T	C	0.812	0.0092	0.0013
rs7560633	2	27,342,067	C	G	0.3595	0.0075	0.0011
rs4778691	15	83,508,278	A	T	0.483	-0.0072	0.0010
rs9857331	3	177,191,935	A	G	0.7294	-0.0081	0.0012
rs9871964	3	178,374,095	T	C	0.1745	-0.0095	0.0014
rs378342	15	70,186,171	T	C	0.2675	-0.0081	0.0012
rs7412683	1	74,175,798	C	G	0.5893	-0.0073	0.0011
rs76829263	3	46,747,457	T	C	0.0225	0.0246	0.0036
rs6428152	1	193,129,154	A	G	0.2775	-0.0081	0.0012
rs11595166	10	4,811,925	T	C	0.0813	0.0132	0.0019
rs13076876	3	85,704,118	T	G	0.5314	-0.0072	0.0010

rs2542673	16	54,206,715	A	C	0.3222	0.0077	0.0011
rs801652	22	47,202,691	T	C	0.7286	0.0081	0.0012
rs1843815	1	98,589,715	A	T	0.4692	0.0072	0.0010
rs62515110	8	81,560,138	T	C	0.811	0.0093	0.0013
rs7614270	3	35,025,388	A	C	0.1481	-0.0102	0.0015
rs707064	2	155,293,869	T	C	0.0747	0.0137	0.0020
rs6766759	3	68,577,979	A	C	0.5362	0.0072	0.0010
rs116656374	3	49,413,266	T	G	0.0381	-0.0191	0.0028
rs12314891	12	99,578,434	A	G	0.7338	-0.0081	0.0012
rs7313065	12	53,471,218	A	C	0.171	-0.0096	0.0014
rs852388	7	5,574,239	C	G	0.2103	-0.0089	0.0013
rs4790841	17	1,835,482	T	C	0.154	0.0100	0.0015
rs4709995	6	166,313,447	T	C	0.3957	-0.0074	0.0011
rs76010712	2	233,766,097	A	G	0.0863	-0.0128	0.0019
rs1492014	3	94,071,481	T	C	0.5767	0.0073	0.0011
rs2224427	20	58,736,133	A	G	0.4712	-0.0072	0.0010
rs6035877	20	21,512,532	A	C	0.5342	0.0072	0.0010
rs17249745	4	102,547,366	A	G	0.9629	0.0193	0.0028
rs182308457	3	51,633,133	A	C	0.016	-0.0291	0.0042
rs516051	17	27,882,705	A	C	0.4731	0.0072	0.0010
rs3889488	8	141,544,748	A	G	0.7195	0.0080	0.0012
rs2848780	18	39,149,367	A	G	0.2717	-0.0081	0.0012
rs28807191	7	29,830,331	T	C	0.5588	-0.0072	0.0011
rs72883341	2	166,637,845	T	C	0.1588	0.0098	0.0014
rs187263396	3	50,831,923	A	G	0.9931	0.0442	0.0064
rs7307965	12	23,132,669	A	G	0.4791	-0.0072	0.0010
rs4391653	1	241,342,291	T	C	0.2621	-0.0082	0.0012
rs2076312	6	33,142,162	A	C	0.1646	-0.0097	0.0014
rs62053970	16	72,352,479	C	G	0.9598	-0.0183	0.0027
rs6122735	20	47,523,732	T	C	0.3927	0.0073	0.0011
rs77370942	13	58,037,032	A	G	0.0727	-0.0138	0.0020
rs10965665	9	23,142,146	A	G	0.29	-0.0084	0.0012
rs7232954	18	44,015,643	T	C	0.6951	0.0078	0.0011
rs13130765	4	45,163,333	C	G	0.4734	-0.0072	0.0011
rs77926719	12	74,905,602	A	G	0.1216	0.0110	0.0016
rs4358291	3	187,501,864	A	T	0.884	0.0112	0.0016
rs28610468	7	14,849,333	A	T	0.2048	-0.0089	0.0013
rs17369403	11	29,316,372	C	G	0.0257	0.0228	0.0033
rs72838256	2	124,964,604	A	C	0.012	0.0332	0.0048
rs133082	22	41,090,554	T	C	0.5672	-0.0072	0.0011
rs9869597	3	153,905,784	A	T	0.7858	-0.0087	0.0013
rs76395018	7	44,376,661	A	T	0.8239	-0.0094	0.0014
rs78667595	13	109,706,967	A	G	0.0917	-0.0125	0.0018
rs6502670	17	1,328,381	T	G	0.6201	-0.0075	0.0011
rs10852028	15	38,942,641	T	C	0.5245	0.0072	0.0010
rs2364972	17	65,475,332	A	G	0.5435	0.0072	0.0011
rs13336754	16	24,801,979	T	C	0.2701	-0.0081	0.0012
rs2787376	9	103,057,721	A	G	0.9003	-0.0120	0.0018

rs8094360	18	40,470,953	A	G	0.1333	-0.0105	0.0015
rs6091534	20	51,064,283	T	C	0.3794	0.0074	0.0011
rs4654441	1	4,566,515	A	G	0.5755	0.0072	0.0011
rs8136156	22	43,309,509	A	G	0.5534	0.0079	0.0012
rs10911678	1	185,081,903	T	C	0.5823	-0.0073	0.0011
rs1126472	6	12,125,772	A	G	0.8919	0.0115	0.0017
rs10910949	1	181,495,801	T	C	0.2099	0.0088	0.0013
rs1786313	8	101,737,075	T	C	0.3137	0.0077	0.0011
rs79409011	7	39,433,817	C	G	0.0644	0.0146	0.0021
rs6545559	2	56,450,431	T	C	0.3196	-0.0077	0.0011
rs2222760	2	151,345,113	A	G	0.2826	-0.0079	0.0012
rs35125	12	46,274,858	A	G	0.5129	-0.0072	0.0010
rs41282553	22	31,286,928	A	G	0.0303	0.0210	0.0031
rs2585183	8	143,766,059	C	G	0.5654	-0.0072	0.0011
rs112579674	8	93,722,821	C	G	0.8177	0.0093	0.0014
rs587021	1	77,093,011	T	G	0.5805	0.0072	0.0011
rs7814757	8	10,675,188	T	C	0.4013	-0.0073	0.0011
rs3817923	1	171,809,211	A	G	0.1132	-0.0113	0.0017
rs56374036	20	46,367,372	A	G	0.7872	-0.0088	0.0013
rs35683183	8	22,557,932	A	G	0.2136	0.0087	0.0013
rs1879753	4	17,105,693	A	G	0.5786	-0.0072	0.0011
rs17812330	6	140,335,268	T	G	0.2604	-0.0081	0.0012
rs10074178	5	93,927,705	A	G	0.5169	0.0071	0.0010
rs7680258	4	31,890,470	T	C	0.4237	0.0072	0.0011
rs34770282	9	23,820,001	A	G	0.8974	-0.0118	0.0017
rs10200498	2	35,836,509	A	G	0.3227	-0.0076	0.0011
rs10042222	5	77,412,854	T	C	0.6871	-0.0078	0.0011
rs12050945	16	62,719,991	C	G	0.7575	-0.0083	0.0012
rs4867608	5	169,936,414	A	T	0.695	0.0078	0.0011
rs150228862	4	102,949,070	T	C	0.0119	-0.0344	0.0051
rs62532760	9	14,246,939	C	G	0.663	-0.0076	0.0011
rs61871134	10	104,330,990	A	G	0.9343	-0.0145	0.0021
rs35452994	3	14,510,442	A	G	0.1957	-0.0091	0.0013
rs273028	18	30,685,176	A	T	0.0751	-0.0135	0.0020
rs2565059	8	27,336,978	A	G	0.1998	0.0089	0.0013
rs7157298	14	56,581,075	A	T	0.5296	0.0071	0.0010
rs891935	5	149,639,013	A	G	0.4507	-0.0072	0.0011
rs61537885	16	75,620,118	T	C	0.9477	-0.0177	0.0026
rs10054614	5	56,662,437	A	G	0.4592	-0.0072	0.0011
rs73039077	3	17,036,387	C	G	0.2441	0.0083	0.0012
rs3948593	17	7,615,364	T	C	0.1628	-0.0097	0.0014
rs62090515	18	42,671,636	A	G	0.3547	-0.0074	0.0011
rs185248842	6	27,664,820	T	C	0.0276	0.0221	0.0033
rs74441911	18	53,037,705	T	C	0.977	0.0243	0.0036
rs740886	7	14,813,586	T	G	0.1371	0.0104	0.0015
rs186070804	12	121,263,788	A	C	0.739	-0.0094	0.0014
rs4664980	2	159,439,911	T	C	0.797	0.0088	0.0013
rs35560901	13	67,054,045	A	G	0.3231	0.0076	0.0011

rs66527557	8	88,008,175	T	G	0.2781	-0.0079	0.0012
rs4848732	2	122,633,487	A	G	0.446	-0.0072	0.0011
rs13077567	3	117,174,468	A	G	0.6801	0.0076	0.0011
rs16962221	16	13,602,800	A	G	0.3449	0.0075	0.0011
rs11235569	11	72,405,545	A	C	0.542	-0.0071	0.0011
rs79708660	10	75,785,466	A	G	0.2255	-0.0087	0.0013
rs11607466	11	134,068,655	T	C	0.1032	-0.0117	0.0017
rs34604401	5	157,337,150	C	G	0.5464	-0.0071	0.0011
rs2637609	4	130,634,423	A	G	0.738	0.0081	0.0012
rs574967	12	120,227,740	A	G	0.3273	0.0076	0.0011
rs17666845	2	144,816,988	A	G	0.6944	-0.0077	0.0011
rs75810494	2	103,989,798	A	T	0.045	0.0174	0.0026
rs2424637	20	24,717,108	A	G	0.6191	0.0073	0.0011
rs12034740	1	1,728,969	A	C	0.4987	0.0071	0.0010
rs67829508	2	120,847,642	A	G	0.1855	-0.0092	0.0014
rs232042	2	179,050,008	A	G	0.4397	-0.0072	0.0011
rs117849041	19	2,312,903	T	C	0.1052	0.0116	0.0017
rs4739235	8	21,287,105	A	G	0.1699	0.0094	0.0014
rs10401329	19	1,871,699	A	G	0.1205	0.0109	0.0016
rs3092073	20	44,595,649	A	G	0.4573	-0.0071	0.0011
rs77901523	20	55,533,146	C	G	0.0345	0.0194	0.0029
rs72890073	18	37,983,849	A	C	0.918	-0.0129	0.0019
rs6508332	18	22,405,933	T	C	0.7444	0.0081	0.0012
rs13025467	2	173,797,297	A	G	0.6724	-0.0076	0.0011
rs7240100	18	53,723,563	A	G	0.614	0.0073	0.0011
rs6680315	1	94,370,519	C	G	0.6629	0.0075	0.0011
rs17062621	4	177,131,268	A	G	0.692	-0.0077	0.0011
rs72676302	14	36,912,454	T	C	0.0452	0.0171	0.0025
rs11897647	2	138,451,864	T	C	0.1811	0.0092	0.0014
rs13121486	4	101,597,411	A	G	0.334	-0.0075	0.0011
rs75931210	2	80,540,462	T	C	0.9653	0.0194	0.0029
rs4964731	12	109,057,809	A	C	0.4815	-0.0071	0.0010
rs55972083	1	2,704,918	T	G	0.2153	-0.0087	0.0013
rs6539284	12	79,592,680	T	C	0.5931	-0.0072	0.0011
rs1470801	3	83,512,237	A	G	0.1952	-0.0089	0.0013
rs11942352	4	112,410,355	A	G	0.8053	-0.0089	0.0013
rs419438	22	20,166,723	T	G	0.5395	-0.0071	0.0011
rs66671632	8	143,680,772	T	C	0.1338	-0.0104	0.0015
rs12709063	16	60,686,987	A	G	0.4925	-0.0071	0.0010
rs7072319	10	68,648,238	T	C	0.494	-0.0071	0.0010
rs10757463	9	23,967,940	A	G	0.484	-0.0071	0.0010
rs111530150	13	54,342,123	T	C	0.0195	0.0257	0.0038
rs9597852	13	59,366,117	A	G	0.1052	0.0115	0.0017
rs181478	14	69,354,871	T	G	0.6338	0.0073	0.0011
rs1424203	16	60,798,217	T	C	0.3509	-0.0074	0.0011
rs12028526	1	101,013,734	T	G	0.5576	0.0071	0.0011
rs72836354	17	44,899,464	A	G	0.4782	0.0071	0.0011
rs2584240	15	96,267,139	A	T	0.8912	-0.0113	0.0017

rs17241659	3	108,051,504	A	G	0.2282	-0.0084	0.0013
rs34959417	4	750,492	T	C	0.2868	-0.0078	0.0012
rs9539905	13	64,614,019	T	C	0.5961	0.0072	0.0011
rs66488846	7	48,783,897	A	T	0.4418	0.0071	0.0011
rs1516036	12	61,786,763	A	G	0.5374	0.0071	0.0010
rs75740317	2	98,611,624	T	C	0.9764	0.0234	0.0035
rs36187472	8	85,952,208	A	G	0.6685	0.0075	0.0011
rs2241722	19	46,119,867	A	C	0.3233	0.0076	0.0011
rs3913942	3	21,486,799	A	G	0.643	0.0074	0.0011
rs35136321	7	131,859,817	A	G	0.7137	-0.0078	0.0012
rs10913420	1	177,759,645	T	C	0.1726	0.0093	0.0014
rs12569163	1	241,878,547	T	G	0.7883	-0.0123	0.0018
rs517674	9	76,908,607	C	G	0.2644	0.0080	0.0012
rs28438078	1	34,024,672	A	G	0.1584	-0.0096	0.0014
rs11082220	18	38,718,651	A	C	0.8472	-0.0098	0.0015
rs1536488	13	66,664,090	A	G	0.6566	0.0074	0.0011
rs903981	5	178,390,237	T	G	0.4122	-0.0072	0.0011
rs113014815	6	27,155,588	T	G	0.9448	0.0157	0.0023
rs7531138	1	97,923,499	A	T	0.4487	0.0071	0.0011
rs7921010	10	104,192,826	T	G	0.1991	-0.0088	0.0013
rs1885857	13	101,179,292	A	G	0.2649	-0.0080	0.0012
rs2517063	8	17,013,640	A	C	0.5438	0.0071	0.0011
rs12201105	6	152,812,569	A	G	0.8626	-0.0102	0.0015
rs6937736	6	97,399,772	C	G	0.1847	0.0091	0.0013
rs32938	5	141,132,662	T	C	0.7734	0.0084	0.0013
rs2969584	2	144,371,034	T	C	0.4989	-0.0070	0.0010
rs4656013	1	88,604,157	T	C	0.5799	0.0072	0.0011
rs75782645	3	44,940,602	A	G	0.8756	-0.0107	0.0016
rs8044082	16	6,603,021	T	C	0.3995	0.0072	0.0011
rs10922326	1	197,867,662	T	G	0.8442	-0.0097	0.0014
rs59615734	5	139,411,146	T	C	0.8311	0.0094	0.0014
rs2362462	7	139,760,010	T	C	0.6002	-0.0072	0.0011
rs116979995	10	104,949,734	T	C	0.0445	0.0171	0.0026
rs11719842	3	126,999,800	A	G	0.2347	0.0096	0.0014
rs62166785	2	124,468,439	A	G	0.1504	0.0099	0.0015
rs2498018	1	208,270,481	C	G	0.1912	-0.0089	0.0013
rs10740572	10	55,838,740	A	T	0.7773	-0.0084	0.0013
rs2555506	3	168,197,090	A	G	0.1769	0.0093	0.0014
rs7601784	2	139,470,731	A	G	0.1339	0.0103	0.0015
rs322547	18	49,137,585	A	G	0.273	-0.0079	0.0012
rs7585653	2	61,046,062	A	G	0.7003	-0.0077	0.0011
rs117401505	8	87,640,494	A	T	0.9328	0.0140	0.0021
rs4378284	10	68,615,277	A	C	0.2666	-0.0079	0.0012
rs1119258	11	99,661,654	T	G	0.3784	-0.0072	0.0011
rs4554425	8	135,498,629	T	C	0.4864	0.0070	0.0010
rs1609309	15	55,351,559	A	T	0.4368	-0.0071	0.0011
rs357564	9	98,209,594	A	G	0.3362	-0.0075	0.0011
rs35581250	4	181,289,859	C	G	0.8192	-0.0092	0.0014

rs11460264	3	46,979,483	A	G	0.9795	-0.0252	0.0038
rs265981	5	174,870,902	A	G	0.3796	0.0072	0.0011
rs116547571	2	174,927,503	A	G	0.0183	-0.0264	0.0039
rs34822565	3	71,483,054	T	G	0.121	-0.0108	0.0016
rs6958592	7	114,702,840	T	C	0.459	0.0070	0.0011
rs10206079	2	171,188,108	T	G	0.358	0.0073	0.0011
rs61757207	16	70,358,495	A	G	0.9859	0.0353	0.0053
rs11629584	15	90,128,966	T	C	0.5118	0.0070	0.0010
rs57524335	7	122,773,220	A	T	0.6047	-0.0072	0.0011
rs76412890	3	118,771,199	T	C	0.2403	-0.0082	0.0012
rs77311515	2	100,851,105	A	G	0.9461	-0.0156	0.0023
rs66818657	15	68,000,491	A	G	0.8514	-0.0098	0.0015
rs6472213	8	66,508,336	T	C	0.3304	-0.0074	0.0011
rs4367098	3	49,219,669	T	C	0.621	0.0072	0.0011
rs7842016	8	115,745,215	C	G	0.7254	0.0078	0.0012
rs62267594	3	129,343,312	C	G	0.0878	0.0124	0.0019
rs74491040	20	40,204,399	T	C	0.012	-0.0322	0.0048
rs1357913	8	83,674,246	A	G	0.5839	0.0071	0.0011
rs73695675	7	39,191,427	T	G	0.0733	-0.0134	0.0020
rs8039549	15	83,246,718	A	G	0.3682	0.0073	0.0011
rs654880	22	20,946,457	A	G	0.2224	-0.0084	0.0013
rs543714	11	90,057,949	T	C	0.3016	-0.0076	0.0011
rs73552348	6	115,834,046	A	G	0.9032	-0.0118	0.0018
rs830622	3	71,677,817	T	C	0.8318	0.0093	0.0014
rs1553666	8	9,881,789	T	C	0.6478	0.0073	0.0011
rs1858552	1	72,316,000	T	G	0.0717	-0.0136	0.0020
rs7654288	4	38,593,487	A	G	0.5224	-0.0070	0.0010
rs9949224	18	63,871,313	A	G	0.5121	0.0070	0.0010
rs4616497	2	103,469,980	T	C	0.3255	0.0075	0.0011
rs9372526	6	98,199,481	A	C	0.2582	-0.0080	0.0012
rs11505217	7	155,560,120	A	C	0.8389	0.0095	0.0014
rs2003850	5	167,844,095	T	C	0.3212	0.0075	0.0011
rs10891825	11	115,173,171	T	C	0.6359	-0.0073	0.0011
rs28468603	9	126,507,274	T	C	0.1089	-0.0112	0.0017
rs11899423	2	181,483,750	A	C	0.1876	-0.0089	0.0013
rs6740731	2	145,270,592	A	G	0.1551	-0.0097	0.0014
rs3099082	2	55,586,647	T	G	0.5673	0.0070	0.0011
rs2867932	15	78,591,037	A	G	0.3907	0.0071	0.0011
rs19169526	14	29,648,396	C	G	0.0069	-0.0430	0.0065
rs76493593	2	215,143,466	A	G	0.1345	0.0102	0.0015
rs6858933	5	145,546,417	A	T	0.3599	0.0084	0.0013
rs6788064	3	143,476,411	A	G	0.4898	-0.0070	0.0010
rs1323110	13	53,558,303	A	G	0.6877	-0.0075	0.0011
rs1043207	14	23,369,994	A	G	0.2835	-0.0085	0.0013
rs567775	5	4,038,358	T	C	0.4947	0.0070	0.0010
rs72671469	14	29,678,837	A	G	0.8911	0.0112	0.0017
rs72787078	16	72,158,493	T	C	0.1654	0.0094	0.0014
rs7222252	17	37,447,218	T	C	0.9679	0.0209	0.0031

rs11681881	2	25,444,521	A	G	0.8651	-0.0103	0.0015
rs1522927	2	73,556,155	T	G	0.6929	0.0076	0.0011
rs11111443	12	103,495,380	A	G	0.6334	0.0072	0.0011
rs11834096	12	17,023,999	A	G	0.6164	0.0072	0.0011
rs2039204	9	130,371,107	A	T	0.5318	0.0070	0.0010
rs10190799	2	72,392,588	A	T	0.6271	-0.0072	0.0011
rs7587055	2	34,132,742	A	G	0.4617	-0.0070	0.0010
rs1338955	10	109,059,174	A	G	0.0762	-0.0131	0.0020
rs111999549	2	156,582,930	T	C	0.0103	0.0346	0.0052
rs938454	5	66,342,746	T	G	0.3931	-0.0071	0.0011
rs138933558	9	14,128,526	A	G	0.0578	0.0151	0.0023
rs2071387	3	139,257,603	A	G	0.8179	0.0090	0.0014
rs13169187	5	51,716,957	A	G	0.5398	-0.0070	0.0010
rs10183564	2	185,188,572	T	C	0.1973	-0.0087	0.0013
rs10983486	9	119,824,033	A	C	0.5758	0.0070	0.0011
rs4679353	3	126,942,635	A	G	0.6201	0.0072	0.0011
rs9993049	4	4,446,985	T	C	0.6201	-0.0072	0.0011
rs2271593	2	220,168,607	T	C	0.1533	0.0097	0.0015
rs238678	16	1,872,722	A	G	0.1483	0.0098	0.0015
rs9272732	6	32,609,647	T	G	0.7077	0.0091	0.0014
rs2589019	18	36,957,555	A	G	0.2456	-0.0081	0.0012
rs6472530	8	71,371,142	A	T	0.6508	-0.0073	0.0011
rs2550218	16	60,127,249	A	G	0.4125	0.0071	0.0011
rs12923809	16	63,589,939	T	C	0.5807	0.0071	0.0011
rs76727996	6	162,438,723	T	C	0.0735	0.0133	0.0020
rs371425	11	131,408,517	T	G	0.2086	-0.0086	0.0013
rs13247102	7	8,027,353	C	G	0.1991	-0.0087	0.0013
rs4405446	13	59,204,204	T	C	0.5842	0.0070	0.0011
rs9644936	9	121,074,823	A	G	0.7717	0.0083	0.0012
rs6534293	4	80,202,960	A	G	0.4391	0.0070	0.0011
rs11571404	12	1,041,450	T	C	0.1971	0.0088	0.0013
rs2726471	4	106,335,490	T	G	0.3343	-0.0074	0.0011
rs11783263	8	19,371,674	C	G	0.6471	0.0073	0.0011
rs150470230	11	73,466,863	A	G	0.9723	0.0214	0.0032
rs41741	7	116,438,511	T	G	0.6694	0.0074	0.0011
rs36116433	2	236,979,552	T	C	0.4525	-0.0070	0.0011
rs4390219	1	32,267,747	T	C	0.3133	-0.0075	0.0011
rs6883584	5	89,160,559	T	G	0.1283	0.0104	0.0016
rs11578181	1	208,323,140	T	G	0.6944	-0.0075	0.0011
rs138729018	10	134,094,519	T	C	0.0449	-0.0171	0.0026
rs78842400	2	58,127,631	T	C	0.0651	-0.0141	0.0021
rs17631311	4	135,331,985	C	G	0.5893	0.0070	0.0011
rs12972944	19	12,713,808	A	G	0.684	0.0075	0.0011
rs2066490	11	67,160,933	A	G	0.1723	-0.0106	0.0016
rs7043998	9	81,650,648	A	G	0.074	0.0132	0.0020
rs8073654	17	74,746,425	T	C	0.567	0.0070	0.0011
rs1611637	6	29,836,741	A	G	0.422	0.0071	0.0011
rs1659298	15	55,836,352	A	G	0.4406	0.0070	0.0011

rs76555305	8	118,807,350	A	G	0.0314	-0.0204	0.0031
rs2423855	20	14,915,305	T	C	0.7224	0.0077	0.0012
rs4858241	3	20,669,071	T	G	0.6323	-0.0072	0.0011
rs67669707	10	134,094,206	A	C	0.4143	0.0070	0.0011
rs6027896	20	59,454,810	T	C	0.6717	0.0074	0.0011
rs10732635	1	114,519,351	T	G	0.5597	0.0070	0.0011
rs35739581	2	8,088,520	T	C	0.9179	0.0130	0.0020
rs6428586	1	90,825,173	A	G	0.6356	0.0072	0.0011
rs72778512	5	81,514,511	C	G	0.9123	-0.0122	0.0019
rs17184588	1	24,365,512	T	C	0.513	-0.0069	0.0010
rs41278381	9	111,962,792	T	C	0.9605	-0.0179	0.0027
rs10819974	9	104,422,344	T	C	0.2356	-0.0081	0.0012
rs4662573	2	127,941,798	T	C	0.5362	0.0069	0.0010
rs9374194	6	111,000,185	T	C	0.8101	-0.0088	0.0013
rs11459067	1	243,817,723	A	T	0.0142	-0.0295	0.0045
rs591540	1	72,331,815	T	G	0.4965	0.0069	0.0010
rs10752160	10	9,429,096	T	C	0.2965	-0.0076	0.0011
rs13175194	5	177,037,610	T	C	0.6577	-0.0073	0.0011
rs6721505	2	36,578,013	A	G	0.3275	0.0074	0.0011
rs287275	5	55,723,936	T	C	0.3446	-0.0073	0.0011
rs9427388	1	161,443,086	T	C	0.0804	-0.0128	0.0019
rs11576614	1	43,798,234	T	G	0.0616	0.0146	0.0022
rs13909730	6	19,223,665	A	C	0.784	0.0084	0.0013
rs7437726	4	114,980,228	T	G	0.1273	0.0104	0.0016
rs1544	21	33,085,585	A	G	0.2713	-0.0078	0.0012
rs578527	15	46,945,976	A	G	0.6742	0.0074	0.0011
rs73874322	3	157,908,855	C	G	0.062	-0.0143	0.0022
rs6916716	6	30,385,235	A	C	0.1709	-0.0093	0.0014
rs62583551	9	138,660,237	A	G	0.2276	0.0083	0.0013
rs7095620	10	114,448,218	A	G	0.3101	-0.0075	0.0011
rs57500891	5	91,996,073	T	C	0.8784	0.0106	0.0016
rs75986654	9	109,037,355	C	G	0.0372	-0.0182	0.0028
rs11161035	14	29,273,706	T	C	0.5108	0.0076	0.0012
rs4937856	11	133,788,407	A	C	0.4735	-0.0069	0.0010
rs9569738	13	58,330,643	A	G	0.2004	0.0087	0.0013
rs12574281	11	131,205,421	A	C	0.6334	-0.0072	0.0011
rs3013170	6	64,840,987	T	C	0.6063	0.0071	0.0011
rs12028229	1	72,986,136	T	G	0.269	0.0079	0.0012
rs1027407	4	176,718,936	A	G	0.0549	-0.0152	0.0023
rs6697033	1	58,064,455	A	G	0.5459	0.0069	0.0011
rs11256991	10	11,166,455	T	G	0.8235	0.0090	0.0014
rs6946355	7	13,992,460	A	G	0.462	0.0069	0.0010
rs1899888	10	63,604,654	A	C	0.4935	0.0069	0.0010
rs11590325	1	154,756,425	C	G	0.6015	-0.0070	0.0011
rs72951837	6	115,141,283	A	G	0.0546	-0.0152	0.0023
rs10050950	5	111,260,051	A	G	0.3352	-0.0073	0.0011
rs11047225	12	24,195,587	T	C	0.4599	-0.0069	0.0011
rs831229	5	67,553,016	A	G	0.3729	0.0071	0.0011

rs9362387	6	87,793,401	T	C	0.2623	-0.0078	0.0012
rs9808993	3	21,856,683	A	G	0.2012	0.0086	0.0013
rs2653344	6	55,133,586	T	C	0.2016	-0.0086	0.0013
rs774515	2	155,369,077	T	C	0.2283	0.0082	0.0013
rs141457432	7	71,906,412	A	G	0.0191	0.0262	0.0040
rs74970466	9	23,420,004	T	C	0.0816	-0.0126	0.0019
rs7172133	15	96,025,311	A	C	0.6869	0.0074	0.0011
rs74455003	4	123,180,529	A	G	0.0298	0.0203	0.0031
rs80165520	2	57,603,186	T	C	0.1038	-0.0113	0.0017
rs12201073	6	67,488,602	T	C	0.3821	-0.0071	0.0011
rs139856048	3	46,768,679	T	G	0.0422	-0.0173	0.0026
rs2742690	1	2,987,268	A	C	0.1999	-0.0086	0.0013
rs13122283	4	62,993,563	A	G	0.4279	0.0069	0.0011
rs28711500	8	87,751,047	A	C	0.3025	0.0075	0.0011
rs7566356	2	56,759,467	C	G	0.5098	0.0069	0.0010
rs7002655	8	125,589,956	A	G	0.4425	0.0069	0.0011
rs745280	16	87,397,288	A	G	0.5353	0.0069	0.0010
rs891793	15	27,256,021	C	G	0.5437	-0.0069	0.0011
rs1869930	15	51,933,907	C	G	0.2427	-0.0080	0.0012
rs10488931	4	82,329,840	T	C	0.0445	-0.0168	0.0026
rs192230285	2	25,454,104	T	C	0.0171	-0.0266	0.0041
rs1462852	3	116,963,998	A	T	0.6671	-0.0073	0.0011
rs10993245	9	97,317,712	A	T	0.0851	0.0123	0.0019
rs9538482	13	60,218,409	A	G	0.9226	0.0129	0.0020
rs9932631	16	741,837	A	G	0.1681	-0.0092	0.0014
rs115865245	2	100,792,230	T	G	0.0173	0.0267	0.0041
rs12052006	18	53,545,463	T	C	0.7951	0.0085	0.0013
rs13112269	4	166,122,147	A	G	0.117	0.0107	0.0016
rs57214198	18	22,082,857	T	G	0.0517	-0.0155	0.0024
rs6499084	16	66,466,538	A	G	0.3458	0.0072	0.0011
rs2901066	2	60,797,896	A	C	0.8359	0.0093	0.0014
rs75274506	10	126,600,778	T	C	0.9436	-0.0150	0.0023
rs9545395	13	36,370,970	T	C	0.8663	0.0101	0.0015
rs1168114	1	63,156,043	A	G	0.3306	-0.0073	0.0011
rs139244145	7	111,912,738	A	G	0.0572	-0.0148	0.0023
rs623200	18	66,246,646	T	C	0.3849	0.0070	0.0011
rs76936697	11	12,891,775	C	G	0.9702	0.0202	0.0031
rs1610268	3	157,854,408	A	G	0.64	-0.0071	0.0011
rs300145	6	166,424,456	T	C	0.6656	-0.0073	0.0011
rs62270934	3	103,094,578	A	G	0.8004	-0.0086	0.0013
rs72893129	18	35,137,832	A	C	0.05	-0.0157	0.0024
rs147115690	3	180,940,058	A	G	0.9908	0.0364	0.0056
rs4883624	12	133,212,737	T	C	0.4473	-0.0069	0.0011
rs10131962	14	89,328,429	A	G	0.5998	0.0070	0.0011
rs2342525	2	151,992,930	A	G	0.5803	-0.0069	0.0011
rs12702698	7	8,152,340	T	C	0.4627	0.0069	0.0011
rs2448929	15	87,028,140	T	C	0.5185	0.0069	0.0010
rs11741850	5	176,148,465	A	T	0.4275	0.0069	0.0011

rs54124399	11	68,183,145	A	G	0.5628	0.0080	0.0012
rs2935969	15	76,437,970	A	G	0.7572	0.0080	0.0012
rs10819272	9	129,954,334	T	C	0.5954	0.0070	0.0011
rs818380	16	65,428,134	A	G	0.2261	-0.0082	0.0013
rs10118105	9	10,354,455	A	G	0.3802	-0.0070	0.0011
rs7704018	5	13,591,599	C	G	0.7162	-0.0076	0.0012
rs7520927	1	237,746,815	A	G	0.4848	-0.0068	0.0010
rs76596316	1	235,746,105	A	T	0.1133	0.0108	0.0017
rs56363150	11	113,447,787	A	G	0.0205	-0.0242	0.0037
rs10983193	9	119,250,600	A	C	0.7781	-0.0082	0.0013
rs12678691	8	132,010,340	A	G	0.513	0.0068	0.0010
rs10402747	19	45,815,248	T	C	0.5144	0.0069	0.0011
rs28834466	15	73,816,464	A	G	0.9284	0.0133	0.0020
rs53980530	13	91,972,194	T	C	0.9095	-0.0138	0.0021
rs9899056	17	48,186,942	A	G	0.3994	0.0070	0.0011
rs12790034	11	65,785,739	T	C	0.169	-0.0091	0.0014
rs12821032	12	42,328,862	A	G	0.3879	-0.0070	0.0011
rs72990858	6	105,147,784	A	G	0.096	0.0116	0.0018
rs72700025	9	24,049,517	A	G	0.1019	-0.0113	0.0017
rs10815861	9	8,417,956	T	C	0.8756	0.0103	0.0016
rs17288217	2	175,872,885	T	C	0.319	0.0073	0.0011
rs10002235	4	41,144,983	T	G	0.4229	0.0069	0.0011
rs72989297	19	3,297,164	T	G	0.1344	-0.0101	0.0015
rs10139828	14	78,293,304	T	C	0.8617	0.0099	0.0015
rs12351052	9	109,903,423	T	C	0.8528	0.0096	0.0015
rs11606125	5	62,875,735	A	T	0.9532	-0.0163	0.0025
rs11853464	15	75,863,915	A	G	0.8776	-0.0104	0.0016
rs10966046	9	23,726,194	C	G	0.2639	0.0077	0.0012
rs4961398	8	20,912,874	A	T	0.2981	0.0075	0.0011
rs6852196	4	19,960,248	T	C	0.4603	-0.0068	0.0010
rs2438390	10	65,817,355	A	G	0.1607	-0.0093	0.0014
rs2068078	20	16,947,769	T	G	0.7882	-0.0083	0.0013
rs1485272	3	3,727,589	T	C	0.6535	-0.0072	0.0011
rs77423896	21	46,500,605	A	G	0.9465	-0.0152	0.0023
rs10511704	9	22,543,147	A	T	0.312	-0.0074	0.0011
rs28799383	7	97,392,616	A	G	0.748	-0.0083	0.0013
rs10821415	9	97,713,459	A	C	0.4271	0.0069	0.0011
rs748404	15	43,559,231	T	C	0.7784	-0.0082	0.0013
rs61817931	1	204,444,687	A	G	0.9713	-0.0205	0.0032
rs1880088	11	20,959,185	A	T	0.264	-0.0077	0.0012
rs17088142	13	71,948,305	T	G	0.4691	-0.0068	0.0010
rs382196	3	9,145,554	T	G	0.3772	-0.0070	0.0011
rs73407126	6	28,605,039	T	C	0.9735	0.0214	0.0033
rs4864881	4	55,200,455	T	C	0.6067	-0.0070	0.0011
rs1481294	11	38,604,075	A	G	0.4531	-0.0068	0.0011
rs7161997	15	40,562,105	A	C	0.2091	-0.0084	0.0013
rs367084	5	3,410,470	T	C	0.2796	-0.0076	0.0012
rs4934583	10	33,543,702	A	G	0.6421	-0.0071	0.0011

rs181164682	11	62,462,217 A	T	0.02	0.0244	0.0037
rs438788	8	137,673,429 A	T	0.2067	0.0085	0.0013
rs13164530	5	167,724,186 T	G	0.1309	-0.0101	0.0016
rs4319543	12	122,645,048 A	C	0.5212	-0.0068	0.0010
rs148752272	3	53,147,451 A	G	0.0102	0.0340	0.0052
rs11645537	16	7,949,693 A	G	0.1458	0.0096	0.0015
rs17649841	7	13,688,583 A	C	0.2356	-0.0080	0.0012
rs10858051	1	115,283,111 A	G	0.7446	0.0078	0.0012
rs115019702	12	53,407,012 A	G	0.9674	0.0227	0.0035
rs1969444	18	27,650,251 A	T	0.5303	-0.0068	0.0010
rs2192692	2	59,104,524 A	G	0.56	-0.0069	0.0011
rs2176263	2	24,092,773 C	G	0.6043	0.0070	0.0011
rs78866914	22	34,318,582 A	T	0.0315	0.0195	0.0030
rs112419726	8	74,057,543 T	C	0.8507	-0.0095	0.0015
rs75903460	2	162,758,257 T	C	0.9802	0.0248	0.0038
rs78352674	5	136,832,821 T	G	0.0298	-0.0200	0.0031
rs149916490	9	109,629,431 T	C	0.977	0.0227	0.0035
rs870681	17	77,773,876 A	C	0.745	-0.0078	0.0012
rs4886623	15	74,092,928 T	C	0.7115	0.0075	0.0012
rs1765749	13	101,378,195 A	G	0.2463	-0.0079	0.0012
rs6950250	7	95,853,837 A	G	0.1748	-0.0089	0.0014
rs1506536	2	28,182,006 T	C	0.4947	0.0068	0.0010
rs11953059	5	136,416,216 T	C	0.426	-0.0069	0.0011
rs4890901	18	74,846,355 A	G	0.6572	0.0072	0.0011
rs2336723	3	53,106,047 T	C	0.4327	0.0068	0.0011
rs35983513	3	70,568,927 C	G	0.2058	-0.0097	0.0015
rs4668897	2	15,480,441 C	G	0.2477	0.0079	0.0012
rs12487097	3	137,404,470 A	G	0.6941	0.0074	0.0011
rs730275	20	58,254,093 A	G	0.865	0.0099	0.0015
rs7537039	1	58,717,410 A	G	0.5705	-0.0068	0.0011
rs11766968	7	96,622,615 T	C	0.1433	-0.0097	0.0015
rs28459462	4	130,251,795 A	G	0.6401	0.0071	0.0011
rs2935788	8	109,748,009 T	C	0.6268	0.0070	0.0011
rs2301586	22	29,702,910 A	T	0.6474	-0.0071	0.0011
rs11156027	6	155,810,346 A	G	0.7554	-0.0079	0.0012
rs148544378	18	40,323,567 T	C	0.0176	0.0260	0.0040
rs6758898	2	113,382,684 A	G	0.6069	0.0069	0.0011
rs35377646	10	66,652,165 A	G	0.8382	-0.0100	0.0016
rs116973	7	20,903,542 T	C	0.5356	-0.0068	0.0010
rs6824923	4	113,141,435 T	C	0.8341	0.0091	0.0014
rs11777093	8	21,424,405 T	C	0.483	0.0068	0.0010
rs150121450	13	105,773,449 T	G	0.0307	0.0197	0.0030
rs12506701	4	160,502,686 A	T	0.4084	0.0069	0.0011
rs2354979	2	51,921,531 A	G	0.5873	0.0069	0.0011
rs645327	11	88,588,786 T	C	0.6717	-0.0072	0.0011
rs117494882	9	23,395,514 T	C	0.058	-0.0146	0.0023
rs7204214	16	84,162,986 A	G	0.788	0.0083	0.0013
rs58338291	16	3,757,786 T	C	0.3168	0.0073	0.0011

rs11245450	10	126,658,075	A	G	0.4236	0.0069	0.0011
rs11181124	12	42,115,447	T	C	0.7868	-0.0083	0.0013
rs10139457	14	98,804,111	A	G	0.4373	-0.0068	0.0011
rs11748120	5	60,879,731	C	G	0.1502	-0.0095	0.0015
rs7602601	2	183,722,966	T	C	0.8808	-0.0104	0.0016
rs7212846	17	57,420,420	T	C	0.2471	0.0078	0.0012
rs365114	6	115,327,645	T	C	0.8125	0.0087	0.0013
rs983473	4	157,695,392	T	C	0.2307	0.0080	0.0012
rs7110069	11	91,945,888	T	C	0.8129	0.0087	0.0013
rs7196426	16	54,248,648	A	C	0.8361	0.0091	0.0014
rs75877036	21	35,847,890	A	T	0.9422	-0.0145	0.0022
rs8079766	17	3,938,215	T	C	0.3945	0.0069	0.0011
rs11667653	19	57,101,876	T	C	0.1897	-0.0086	0.0013
rs1114504	11	79,237,887	T	C	0.825	-0.0089	0.0014
rs79844375	8	60,280,222	T	C	0.0994	-0.0113	0.0018
rs9802100	8	142,856,303	A	G	0.5124	0.0068	0.0011
rs56348843	8	15,212,063	A	G	0.4492	-0.0068	0.0011
rs719645	2	50,883,300	T	C	0.7648	-0.0080	0.0012
rs80352808	1	22,955,229	A	G	0.2808	-0.0075	0.0012
rs73101171	3	68,432,051	T	C	0.1369	0.0098	0.0015
rs72770059	2	7,389,596	A	G	0.2128	-0.0082	0.0013
rs160706	5	123,586,728	A	G	0.6268	0.0070	0.0011
rs10984573	9	122,275,247	A	T	0.7147	-0.0075	0.0012
rs341048	11	72,298,280	T	C	0.1384	-0.0098	0.0015
rs79180767	6	67,540,984	T	C	0.3786	-0.0080	0.0012
rs4685448	3	252,344	A	G	0.4403	-0.0068	0.0011
rs188029	12	59,895,548	A	G	0.27	-0.0076	0.0012
rs117556294	10	34,581,123	A	T	0.9419	0.0146	0.0023
rs7986701	13	92,905,521	C	G	0.7414	-0.0077	0.0012
rs56158436	10	72,886,269	A	G	0.3102	-0.0073	0.0011
rs181483	14	69,358,094	A	G	0.6271	0.0070	0.0011
rs10813533	9	31,319,287	T	C	0.874	0.0102	0.0016
rs1278537	1	50,882,159	T	G	0.4803	-0.0067	0.0010
rs7589741	2	109,950,545	A	T	0.3882	-0.0069	0.0011
rs4552666	5	161,180,720	A	G	0.7679	-0.0080	0.0012
rs7036535	9	122,342,630	A	G	0.4982	0.0067	0.0010
rs12960373	18	77,902,707	A	G	0.8451	-0.0093	0.0014
rs17222172	2	161,788,289	A	C	0.3349	0.0071	0.0011
rs58385891	11	46,348,663	A	G	0.1806	-0.0088	0.0014
rs9992967	4	96,979,429	T	G	0.786	0.0082	0.0013
rs59093198	8	97,740,267	T	C	0.6618	-0.0071	0.0011
rs10781342	9	78,778,550	T	C	0.2083	0.0083	0.0013
rs73224350	21	22,288,653	A	G	0.8618	0.0098	0.0015
rs6710557	2	4,827,559	A	G	0.4704	-0.0067	0.0010
rs4731366	7	127,170,015	T	C	0.7484	-0.0077	0.0012
rs66521413	5	43,015,122	A	T	0.2074	-0.0083	0.0013
rs7626224	3	104,907,697	T	G	0.7573	0.0078	0.0012
rs189887274	7	86,195,992	T	C	0.9667	0.0189	0.0029

rs4793090	17	40,686,342	A	G	0.6671	0.0071	0.0011
rs113368975	2	199,583,079	A	G	0.0508	-0.0159	0.0025
rs6689263	1	20,882,523	A	G	0.8872	-0.0106	0.0017
rs1663564	12	105,546,172	A	G	0.9116	0.0170	0.0026
rs72899101	2	156,629,975	T	G	0.8486	-0.0094	0.0015
rs78462816	4	38,300,662	A	G	0.8806	-0.0104	0.0016
rs75834196	2	55,286,561	T	C	0.0963	-0.0114	0.0018
rs6839051	4	35,026,277	A	C	0.3828	-0.0069	0.0011
rs60068013	2	48,435,582	A	T	0.4488	0.0067	0.0011
rs542189	12	121,032,542	T	G	0.2302	0.0080	0.0012
rs6542543	2	120,466,940	A	G	0.8283	-0.0089	0.0014
rs17378539	1	98,209,110	T	C	0.8283	0.0089	0.0014
rs72933754	2	212,781,536	T	C	0.9136	0.0122	0.0019
rs1331999	9	1,499,641	T	G	0.3996	-0.0068	0.0011
rs113938506	11	122,042,199	A	G	0.0565	-0.0146	0.0023
rs298288	2	157,282,310	C	G	0.2022	0.0084	0.0013
rs7945465	11	98,774,102	A	C	0.2855	-0.0074	0.0012
rs213014	1	21,643,745	T	C	0.5459	-0.0067	0.0011
rs2396625	7	113,028,634	A	T	0.4275	0.0068	0.0011
rs62079997	17	80,076,888	T	C	0.5644	-0.0068	0.0011
rs1397870	11	29,403,471	T	G	0.1959	-0.0084	0.0013
rs72792003	16	66,742,259	T	G	0.9576	-0.0167	0.0026
rs8060784	16	76,261,952	T	C	0.2713	0.0075	0.0012
rs75925700	4	123,401,769	A	G	0.6667	-0.0082	0.0013
rs7500906	16	49,796,831	A	G	0.4639	-0.0067	0.0010
rs12435895	14	66,459,694	A	G	0.7716	-0.0080	0.0012
rs2692473	7	13,568,346	A	C	0.5057	-0.0067	0.0010
rs147447653	14	30,727,611	T	G	0.0215	0.0232	0.0036
rs12379841	9	14,536,315	A	G	0.317	-0.0072	0.0011
rs11681040	2	204,551,970	T	C	0.0958	-0.0114	0.0018
rs1800936	2	48,025,694	T	C	0.1294	-0.0100	0.0016
rs35359254	19	18,901,618	C	G	0.9038	0.0114	0.0018
rs13102450	4	182,292,161	T	C	0.6609	-0.0071	0.0011
rs73197422	12	88,045,706	A	G	0.9276	-0.0129	0.0020
rs35087630	2	154,793,237	A	T	0.2673	0.0076	0.0012
rs117624174	7	2,081,425	T	C	0.0585	0.0143	0.0022
rs9984313	21	39,193,774	T	C	0.7582	-0.0078	0.0012
rs473900	6	93,931,037	T	C	0.2447	-0.0078	0.0012
rs2434672	5	11,471,879	A	C	0.53	0.0067	0.0010
rs502506	6	72,724,390	A	G	0.4944	-0.0067	0.0010
rs12658400	5	179,717,643	A	T	0.475	0.0067	0.0010
rs6477309	9	8,450,638	T	C	0.6655	-0.0071	0.0011
rs9459465	6	166,048,868	A	G	0.2324	-0.0079	0.0012
rs11690494	2	100,983,179	T	C	0.1303	0.0100	0.0016
rs991001	8	94,484,749	C	G	0.1345	0.0098	0.0015
rs7687750	4	41,041,636	A	G	0.2379	-0.0079	0.0012
rs58837030	16	15,603,155	C	G	0.2051	-0.0083	0.0013
rs4680176	3	155,141,789	T	C	0.3796	0.0069	0.0011

rs7721182	5	122,405,791	T	C	0.4433	0.0067	0.0011
rs66667727	3	178,797,216	C	G	0.3593	0.0070	0.0011
rs4793109	17	42,554,214	A	C	0.5621	0.0067	0.0011
rs12224337	11	107,140,077	A	G	0.5028	-0.0067	0.0010
rs10757366	9	22,887,174	T	C	0.4901	0.0067	0.0010
rs6772801	3	139,496,471	A	G	0.7127	-0.0074	0.0012
rs2041543	9	129,197,579	T	C	0.1587	0.0091	0.0014
rs9653289	2	172,098,622	A	C	0.2042	0.0083	0.0013
rs34533962	3	80,875,909	A	G	0.6802	-0.0072	0.0011
rs2937834	5	61,025,943	A	T	0.4483	-0.0067	0.0011
rs1109156	3	159,572,120	T	C	0.208	0.0082	0.0013
rs9804142	1	225,673,847	T	C	0.6984	0.0073	0.0011
rs34012599	10	14,668,398	A	G	0.542	-0.0067	0.0011
rs1008516	7	71,314,864	T	C	0.2219	0.0080	0.0013
rs111227517	19	38,705,694	T	C	0.8091	-0.0085	0.0013
rs7116370	11	99,281,340	T	G	0.6712	-0.0071	0.0011
rs1329605	9	10,805,894	T	C	0.2804	0.0075	0.0012
rs1019385	12	14,134,843	A	C	0.4582	-0.0067	0.0011
rs4709383	6	160,298,088	A	G	0.9234	0.0125	0.0020
rs228080	21	43,966,793	A	G	0.5108	0.0067	0.0010
rs9319011	13	84,624,659	A	G	0.8317	0.0090	0.0014
rs117416770	8	22,834,384	T	C	0.0347	-0.0183	0.0029
rs79009682	5	60,494,556	A	G	0.0371	0.0432	0.0068
rs28594971	8	70,468,380	A	G	0.179	0.0087	0.0014
rs62181533	2	192,905,876	A	C	0.5083	0.0067	0.0010
rs10816784	9	111,958,953	A	G	0.3879	0.0068	0.0011
rs10786066	10	94,782,567	T	C	0.7166	0.0074	0.0012
rs12534982	7	132,574,100	A	G	0.7374	0.0076	0.0012
rs9607087	22	34,269,443	T	C	0.6158	0.0069	0.0011
rs79391487	19	19,989,679	T	C	0.056	-0.0146	0.0023
rs36123499	8	118,809,612	T	C	0.7143	-0.0074	0.0012
rs1362439	16	53,375,843	A	T	0.6045	0.0068	0.0011
rs62227705	21	34,919,593	A	C	0.7158	0.0074	0.0012
rs2285938	9	135,739,214	T	C	0.1941	0.0084	0.0013
rs862957	14	26,485,411	A	T	0.2456	0.0077	0.0012
rs77180386	4	159,886,831	A	G	0.7156	0.0085	0.0013
rs1787073	18	35,362,191	A	G	0.1966	-0.0084	0.0013
rs8105087	19	13,250,340	A	T	0.7211	-0.0075	0.0012
rs1817747	2	10,913,149	T	C	0.3705	0.0069	0.0011
rs11154134	6	123,320,778	A	G	0.6906	-0.0072	0.0011
rs4254203	13	84,656,110	A	T	0.0516	-0.0151	0.0024
rs8051854	16	71,438,287	A	C	0.6357	0.0069	0.0011
rs17561583	8	40,673,248	T	C	0.1368	-0.0097	0.0015
rs4969315	17	78,925,383	A	G	0.5907	-0.0068	0.0011
rs10885931	10	84,945,512	A	G	0.6583	0.0070	0.0011
rs11941559	4	15,565,874	C	G	0.113	-0.0105	0.0017
rs12634802	3	65,387,514	T	C	0.7336	-0.0075	0.0012
rs9558526	13	105,956,232	A	C	0.301	-0.0073	0.0011

rs10821945	10	63,801,722 T	G	0.5785	0.0068	0.0011
rs1764020	6	163,804,967 T	C	0.6723	0.0071	0.0011
rs10153150	16	65,803,954 T	G	0.1136	0.0105	0.0016
rs11851667	14	33,588,830 T	C	0.7375	-0.0076	0.0012
rs75107766	4	164,797,725 A	C	0.9452	-0.0147	0.0023
rs13244634	7	5,273,464 T	C	0.2363	-0.0078	0.0012
rs72784561	16	65,795,865 A	G	0.6682	0.0071	0.0011
rs538249	7	105,360,021 A	C	0.5738	-0.0067	0.0011
rs71504489	8	28,664,306 T	C	0.1207	0.0102	0.0016
rs78621285	16	22,903,022 A	T	0.9118	0.0118	0.0019
rs2240471	7	21,757,690 A	G	0.4388	0.0067	0.0011
rs149550386	4	106,420,120 T	C	0.0546	0.0147	0.0023
rs153098	16	13,273,876 A	C	0.531	-0.0067	0.0010
rs6061441	20	60,022,069 T	C	0.2015	-0.0083	0.0013
rs61940318	12	100,263,190 A	G	0.1974	-0.0083	0.0013
rs12373065	16	71,870,032 A	T	0.1296	0.0099	0.0016
rs3888345	18	35,104,620 T	G	0.5801	-0.0068	0.0011
rs8028148	15	96,679,303 A	G	0.7024	0.0073	0.0011
rs7612549	3	34,814,101 A	C	0.7768	0.0080	0.0013
rs74128334	1	174,242,471 T	G	0.0361	0.0179	0.0028
rs7171941	15	81,011,226 A	G	0.5025	-0.0066	0.0010
rs4739090	8	64,321,053 T	C	0.3509	0.0070	0.0011
rs28448822	4	21,787,065 A	C	0.8692	0.0098	0.0016
rs60225156	18	44,329,878 A	C	0.7911	0.0082	0.0013
rs4619072	10	134,205,336 T	C	0.2933	-0.0073	0.0011
rs12496649	3	66,906,125 T	C	0.5676	-0.0067	0.0011
rs34762508	10	102,024,258 T	C	0.4245	0.0067	0.0011
rs10818407	9	122,696,635 T	C	0.2278	0.0079	0.0012
rs77462006	6	97,443,859 A	G	0.0362	-0.0178	0.0028
rs1174387	12	58,682,665 T	C	0.4616	-0.0067	0.0010
rs2345617	10	82,797,583 C	G	0.2747	-0.0074	0.0012
rs35951883	14	101,355,400 A	G	0.7794	-0.0081	0.0013
rs1044230	8	110,552,577 T	C	0.2188	0.0080	0.0013
rs13382311	2	123,941,611 T	G	0.6065	0.0068	0.0011
rs8063312	16	68,763,142 A	C	0.1136	-0.0105	0.0017
rs57440904	4	66,334,001 A	C	0.2848	-0.0073	0.0012
rs6786125	3	28,727,523 C	G	0.8208	0.0086	0.0014
rs6779981	3	171,054,056 T	C	0.5966	0.0068	0.0011
rs7101996	11	11,259,298 T	C	0.5652	-0.0067	0.0011
rs61879862	11	31,267,596 T	C	0.8752	-0.0101	0.0016
rs1428102	16	18,026,440 A	G	0.3866	-0.0068	0.0011
rs12602408	17	56,421,270 A	G	0.2877	0.0073	0.0012
rs62453453	7	39,301,495 T	C	0.1192	-0.0102	0.0016
rs539906783	6	28,739,867 C	G	0.9711	0.0200	0.0032
rs840850	5	87,079,029 A	G	0.4659	-0.0066	0.0010
rs5771204	22	50,614,476 T	C	0.5802	0.0067	0.0011
rs62114178	19	58,778,451 A	G	0.3724	0.0069	0.0011
rs7729431	5	85,498,043 A	G	0.4826	0.0066	0.0010

rs10739569	9	123,361,027	C	G	0.7001	-0.0072	0.0011
rs478007	18	26,492,205	T	G	0.2434	0.0077	0.0012
rs4749578	10	30,964,289	T	C	0.3364	0.0070	0.0011
rs1155675	12	97,635,817	T	G	0.7617	0.0078	0.0012
rs4456284	11	112,861,779	T	C	0.1253	-0.0100	0.0016
rs12272462	11	128,526,406	A	G	0.7325	0.0075	0.0012
rs12591073	15	47,947,650	T	C	0.5998	0.0068	0.0011
rs1353286	3	27,772,014	T	G	0.537	0.0066	0.0011
rs2104598	10	114,715,598	A	G	0.53	-0.0067	0.0011
rs35727422	5	140,448,260	A	C	0.0776	-0.0124	0.0020
rs186456786	13	58,698,035	A	G	0.99	0.0342	0.0054
rs9326769	5	108,653,720	T	C	0.4157	0.0067	0.0011
rs4945160	11	76,916,967	A	G	0.449	0.0067	0.0011
rs17205908	6	127,764,305	T	C	0.3265	-0.0077	0.0012
rs73087577	7	20,834,410	T	C	0.0597	-0.0140	0.0022
rs1998846	1	69,901,557	A	G	0.3125	0.0072	0.0011
rs4784148	16	61,704,650	T	C	0.6862	-0.0071	0.0011
rs3796432	4	96,030,402	T	G	0.3714	0.0068	0.0011
rs9367942	6	17,127,706	A	G	0.1401	0.0095	0.0015
rs56317140	2	167,437,581	A	C	0.8733	-0.0101	0.0016
rs10033587	4	66,239,196	T	C	0.0232	0.0220	0.0035
rs13138842	4	158,143,092	A	G	0.197	0.0083	0.0013
rs11171681	12	56,193,233	A	C	0.9578	0.0164	0.0026
rs10942058	5	24,580,406	T	C	0.5029	0.0066	0.0010
rs10499014	6	97,947,755	C	G	0.7315	-0.0075	0.0012
rs143544215	12	56,452,055	A	G	0.0099	-0.0342	0.0054
rs113324476	3	85,007,807	T	C	0.0168	0.0265	0.0042
rs59259701	17	80,543,010	T	C	0.3153	-0.0085	0.0013
rs4865501	4	1,571,070	T	C	0.4719	-0.0067	0.0011
rs35792166	3	178,271,216	T	C	0.3678	0.0068	0.0011
rs35700858	16	350,857	A	C	0.163	0.0090	0.0014
rs6500234	16	49,613,746	T	C	0.6437	0.0069	0.0011
rs1344594	2	53,416,895	C	G	0.0766	0.0124	0.0020
rs2035936	3	141,298,124	T	G	0.0544	-0.0146	0.0023
rs7569706	2	156,828,501	A	G	0.7975	0.0082	0.0013
rs3768992	2	101,599,864	A	G	0.5085	0.0066	0.0010
rs61822065	1	196,065,507	A	G	0.5453	-0.0066	0.0011
rs7565063	2	160,238,109	A	T	0.2434	0.0077	0.0012
rs11264531	1	156,688,152	T	C	0.361	0.0069	0.0011
rs11915916	3	45,310,542	T	C	0.1368	0.0096	0.0015
rs10055846	5	32,323,504	A	G	0.8437	0.0091	0.0014
rs76799289	1	172,218,257	T	G	0.014	-0.0283	0.0045
rs9914251	17	5,394,882	A	G	0.7579	0.0077	0.0012
rs11562848	4	118,429,474	T	C	0.0947	0.0113	0.0018
rs10921229	1	192,625,032	C	G	0.4416	0.0066	0.0011
rs7986263	13	53,672,947	T	G	0.5989	0.0067	0.0011
rs73711273	8	135,626,918	A	G	0.921	0.0122	0.0019
rs1290126	10	18,639,462	T	C	0.4508	-0.0066	0.0011

rs2160317	2	202,839,319	T	C	0.4324	0.0066	0.0011
rs10759882	9	119,733,639	T	C	0.7186	-0.0073	0.0012
rs33002	5	80,165,378	A	T	0.4451	-0.0066	0.0011
rs17106672	14	69,455,505	A	C	0.8245	0.0087	0.0014
rs67981189	14	71,472,226	A	G	0.6599	-0.0070	0.0011
rs6544449	2	41,802,979	A	G	0.3592	-0.0069	0.0011
rs7068032	10	65,474,912	A	G	0.4382	-0.0066	0.0011
rs2352430	10	87,800,136	T	C	0.7703	-0.0078	0.0012
rs3844013	14	36,745,669	T	C	0.9457	0.0145	0.0023
rs307913	19	54,443,051	A	G	0.8508	0.0093	0.0015
rs74828610	17	42,793,037	T	G	0.9263	-0.0126	0.0020
rs10206657	2	233,462,095	A	G	0.2528	0.0076	0.0012
rs72835052	5	167,627,642	A	G	0.0664	0.0133	0.0021
rs2381575	2	145,078,959	T	C	0.533	-0.0066	0.0011
rs62541086	9	27,943,037	T	G	0.6488	0.0069	0.0011
rs341031	11	72,249,238	T	C	0.7116	0.0073	0.0012
rs60743220	3	68,945,153	T	C	0.8371	0.0089	0.0014
rs10205363	2	144,179,493	A	G	0.0223	0.0224	0.0036
rs76449306	18	39,935,951	T	G	0.8916	-0.0106	0.0017
rs2055940	4	46,997,913	A	G	0.3231	0.0070	0.0011
rs10943588	6	79,510,994	A	C	0.6174	0.0068	0.0011
rs2407902	16	61,529,433	T	C	0.7311	0.0074	0.0012
rs351880	20	62,856,121	T	C	0.1964	-0.0083	0.0013
rs2301465	6	112,030,644	T	C	0.0466	-0.0156	0.0025
rs12305290	12	18,399,464	A	G	0.1728	-0.0087	0.0014
rs9601364	13	80,952,100	T	C	0.7862	0.0080	0.0013
rs12445627	16	7,614,876	A	G	0.4672	-0.0066	0.0010
rs10854143	19	15,512,720	T	C	0.4853	0.0066	0.0010
rs28608599	4	16,277,862	T	C	0.7193	-0.0073	0.0012
rs11706224	3	135,193,301	T	C	0.6442	0.0069	0.0011
rs1289861	1	117,853,913	A	G	0.2271	-0.0078	0.0012
rs2018586	7	7,361,896	A	G	0.1909	0.0084	0.0013
rs35111947	2	221,251,966	A	G	0.6604	0.0069	0.0011
rs114704918	1	174,615,600	A	G	0.9114	0.0117	0.0019
rs28473320	15	97,462,529	T	C	0.6969	-0.0071	0.0011
rs707084	2	155,308,061	A	G	0.459	0.0066	0.0011
rs7681103	4	12,312,917	A	G	0.6169	-0.0068	0.0011
rs422247	6	14,913,987	T	C	0.743	0.0075	0.0012
rs6898748	5	25,062,052	T	C	0.5583	-0.0066	0.0011
rs79503311	7	2,467,974	T	C	0.0394	0.0170	0.0027
rs11190955	10	103,112,165	T	C	0.3558	-0.0069	0.0011
rs7905026	10	99,121,697	A	C	0.2604	-0.0075	0.0012
rs9362865	6	91,997,544	T	C	0.901	0.0110	0.0018
rs1585272	2	97,161,749	T	C	0.6531	0.0069	0.0011
rs6872619	5	141,686,067	A	G	0.1801	-0.0085	0.0014
rs6070254	20	56,336,730	A	T	0.6747	0.0070	0.0011
rs9538699	13	61,013,589	A	G	0.2603	0.0075	0.0012
rs9823931	3	131,568,323	A	G	0.5788	-0.0066	0.0011

rs2063037	1	84,905,725	C	G	0.4317	0.0066	0.0011
rs140167677	18	22,051,440	A	G	0.2308	-0.0078	0.0012
rs145836687	5	81,119,744	A	G	0.0975	-0.0111	0.0018
rs490535	20	3,001,343	T	C	0.3345	0.0069	0.0011
rs72635790	1	8,374,253	A	T	0.0567	0.0142	0.0023
rs1206133	6	97,543,137	T	C	0.7524	0.0076	0.0012
rs9411446	9	135,015,927	A	G	0.4055	0.0067	0.0011
rs200482765	19	4,510,079	A	T	0.6897	-0.0082	0.0013
rs142331290	17	7,502,034	A	G	0.9851	0.0272	0.0043
rs12682276	8	10,099,240	A	C	0.8995	0.0109	0.0017
rs684192	18	74,622,529	A	G	0.6353	-0.0068	0.0011
rs1324626	9	122,132,138	T	C	0.561	0.0066	0.0011
rs5396	3	170,744,815	T	C	0.7158	0.0073	0.0012
rs114364946	2	193,771,468	A	T	0.9738	-0.0208	0.0033
rs7402939	15	99,183,876	T	C	0.3789	0.0068	0.0011
rs13174179	5	149,150,671	A	G	0.3218	-0.0070	0.0011
rs76583783	5	24,890,744	A	C	0.1777	-0.0086	0.0014
rs2607347	5	58,721,609	T	C	0.5619	-0.0066	0.0011
rs17760841	17	61,472,820	T	C	0.2325	0.0077	0.0012
rs12154239	7	105,246,821	T	C	0.5018	0.0066	0.0010
rs2769212	10	32,516,920	A	G	0.131	-0.0097	0.0016
rs1817452	18	32,356,593	T	C	0.8315	-0.0087	0.0014
rs112129485	3	182,680,766	T	C	0.0976	0.0110	0.0018
rs1414392	1	91,162,053	T	C	0.5589	-0.0066	0.0011
rs138835177	14	29,226,713	C	G	0.0389	-0.0170	0.0027
rs7009856	8	1,146,075	C	G	0.3887	0.0067	0.0011
rs79653698	11	65,753,304	A	G	0.9784	0.0227	0.0036
rs3810538	20	51,067,708	C	G	0.0848	-0.0117	0.0019
rs211694	1	76,069,504	A	C	0.7654	-0.0077	0.0012
rs139331180	6	29,784,309	A	G	0.063	0.0136	0.0022
rs7124286	11	40,058,184	T	C	0.8279	0.0087	0.0014
rs6585490	10	120,222,019	A	T	0.6495	-0.0069	0.0011
rs405509	19	45,408,836	T	G	0.4811	0.0065	0.0010
rs20547	6	32,826,233	A	G	0.9621	0.0186	0.0030
rs17668674	16	72,257,540	A	G	0.8915	-0.0105	0.0017
rs9310653	3	21,723,547	C	G	0.9335	0.0131	0.0021
rs9681368	3	185,727,948	A	G	0.3079	0.0072	0.0012
rs10771003	12	23,710,942	T	G	0.7773	0.0079	0.0013
rs10867548	9	83,093,792	A	G	0.8557	0.0093	0.0015
rs1053951	18	60,232,674	A	G	0.5723	-0.0066	0.0011
rs2467974	8	133,760,154	C	G	0.6643	-0.0069	0.0011
rs72682966	8	86,374,208	T	C	0.0373	-0.0205	0.0033
rs231334	4	2,796,665	T	C	0.4161	-0.0066	0.0011
rs2841425	1	213,361,627	A	C	0.1794	-0.0085	0.0014
rs67857806	1	161,191,228	A	G	0.2258	0.0078	0.0013
rs12922671	16	25,788,819	T	G	0.1523	0.0091	0.0015
rs35111506	11	65,334,712	C	G	0.9461	-0.0145	0.0023
rs3770772	2	37,192,607	T	C	0.7452	0.0075	0.0012

rs2253718	6	30,900,427	T	G	0.3671	0.0069	0.0011
rs4522099	10	108,688,242	C	G	0.9314	0.0129	0.0021
rs10215438	7	3,524,612	A	G	0.5576	0.0066	0.0011
rs9666212	11	29,531,097	T	C	0.7783	0.0079	0.0013
rs117015720	13	99,232,990	C	G	0.0674	0.0132	0.0021
rs55817320	2	210,853,849	T	C	0.5009	-0.0065	0.0010
rs2233754	14	58,755,574	A	C	0.0619	-0.0135	0.0022
rs7852096	9	1,793,162	T	C	0.7474	0.0075	0.0012
rs3134530	8	105,499,710	A	C	0.3393	0.0069	0.0011
rs6813653	4	122,772,313	A	G	0.2548	0.0075	0.0012
rs4671934	2	54,687,523	C	G	0.5691	-0.0066	0.0011
rs7248145	19	12,639,911	T	C	0.6898	-0.0071	0.0011
rs142237780	22	48,030,529	T	C	0.0368	0.0176	0.0028
rs887593	14	74,686,271	A	G	0.0897	-0.0114	0.0018
rs76631016	6	33,698,461	T	C	0.0514	-0.0148	0.0024
rs11657342	17	79,355,294	A	G	0.3671	0.0146	0.0023
rs11191999	10	106,066,436	T	C	0.3175	0.0070	0.0011
rs75242975	2	58,874,588	A	G	0.0249	-0.0210	0.0034
rs8000862	13	100,494,737	A	G	0.3587	-0.0068	0.0011
rs10997220	10	68,290,594	T	C	0.1066	0.0106	0.0017
rs17663167	8	9,288,937	T	C	0.1621	-0.0088	0.0014
rs144988294	2	58,496,321	A	T	0.9919	-0.0369	0.0059
rs61746505	20	62,839,710	C	G	0.0483	0.0153	0.0025
rs73390208	6	31,326,131	T	C	0.3081	-0.0072	0.0012
rs9602200	13	84,073,118	T	C	0.817	-0.0084	0.0014
rs6946362	7	6,574,807	T	C	0.6912	0.0071	0.0011
rs3788337	22	23,412,017	A	G	0.3666	0.0068	0.0011
rs12614827	2	53,071,428	A	G	0.387	-0.0067	0.0011
rs11752015	6	26,060,490	T	C	0.953	-0.0154	0.0025
rs545454	11	28,747,685	A	G	0.4757	-0.0065	0.0010
rs78094866	1	20,650,384	T	C	0.1274	-0.0098	0.0016
rs785278	1	33,307,987	A	T	0.1804	0.0085	0.0014
rs12984717	19	1,868,461	A	T	0.1235	0.0114	0.0018
rs2084007	5	133,891,282	T	C	0.4743	-0.0065	0.0010
rs2158507	7	69,862,423	A	C	0.3851	-0.0067	0.0011
rs12260313	10	131,692,815	T	C	0.2985	0.0071	0.0011
rs728943	2	80,347,379	T	C	0.2573	-0.0074	0.0012
rs10753906	1	201,887,382	C	G	0.5414	0.0065	0.0011
rs6477140	9	7,044,474	A	G	0.3548	0.0068	0.0011
rs12699612	7	14,421,915	A	T	0.2556	0.0077	0.0012
rs736281	14	94,287,830	T	C	0.389	0.0067	0.0011
rs34418947	18	49,993,455	A	G	0.4119	-0.0066	0.0011
rs28767928	6	73,223,259	A	T	0.2854	0.0072	0.0012
rs17250623	9	108,394,893	A	G	0.6872	-0.0070	0.0011
rs12922563	16	53,001,788	T	C	0.238	-0.0076	0.0012
rs2852334	18	37,233,059	A	G	0.4338	0.0065	0.0011
rs2273551	11	33,097,691	T	C	0.1754	0.0085	0.0014
rs75613846	2	162,043,971	T	C	0.9655	0.0180	0.0029

rs11112913	12	106,635,568	A	G	0.1035	-0.0108	0.0017
rs3781339	10	105,428,152	T	C	0.1954	-0.0082	0.0013
rs35657180	5	80,723,693	A	T	0.226	0.0078	0.0013
rs7469285	9	22,596,808	T	C	0.5412	-0.0065	0.0011
rs2529177	7	21,373,697	A	G	0.8353	0.0087	0.0014
rs307120	18	37,619,939	T	C	0.3164	-0.0070	0.0011
rs1263671	2	207,996,447	T	C	0.8335	-0.0087	0.0014
rs3809912	18	12,947,462	T	C	0.3534	0.0068	0.0011
rs11690621	2	101,049,115	T	G	0.2919	0.0072	0.0012
rs1289267	5	103,557,806	T	C	0.248	-0.0075	0.0012
rs12562745	1	72,235,421	A	C	0.6511	0.0068	0.0011
rs73401231	6	26,329,492	A	G	0.148	0.0091	0.0015
rs10080	10	33,467,108	A	G	0.4149	-0.0066	0.0011
rs8110747	19	36,103,517	T	C	0.408	-0.0066	0.0011
rs1861499	2	8,075,668	A	T	0.1693	0.0086	0.0014
rs2202781	13	35,292,372	A	G	0.7686	-0.0077	0.0012
rs72938351	2	204,151,503	A	G	0.8933	-0.0105	0.0017
rs258696	7	81,759,677	C	G	0.7318	0.0073	0.0012
rs2195041	18	64,579,525	A	G	0.4059	0.0066	0.0011
rs4940134	18	49,277,017	T	C	0.2362	0.0076	0.0012
rs2223928	14	26,567,802	T	C	0.549	0.0065	0.0011
rs2088913	3	117,310,069	A	G	0.5699	0.0065	0.0011
rs2567609	20	23,017,017	T	C	0.547	-0.0065	0.0011
rs34408666	3	121,981,609	A	G	0.1399	-0.0093	0.0015
rs6131010	20	44,724,305	A	G	0.2682	-0.0073	0.0012
rs55783571	8	14,109,499	A	G	0.3471	0.0068	0.0011
rs76589360	19	15,413,671	T	C	0.8875	0.0103	0.0017
rs7655515	4	91,091,035	A	G	0.6024	-0.0066	0.0011
rs17515793	5	152,887,260	T	C	0.3512	0.0068	0.0011
rs4634051	3	122,180,728	A	G	0.3041	0.0070	0.0011
rs35693868	14	39,880,851	T	C	0.2552	0.0074	0.0012
rs2935212	1	213,116,133	T	C	0.3869	0.0066	0.0011
rs1201814	6	70,917,973	A	T	0.4592	-0.0065	0.0011
rs4371620	4	102,708,235	T	C	0.7921	0.0080	0.0013
rs10819243	9	129,633,328	A	G	0.6027	0.0066	0.0011
rs6706197	2	198,142,269	T	C	0.4748	0.0065	0.0011
rs2001751	10	133,914,812	A	C	0.4076	-0.0066	0.0011
rs1505676	4	62,127,291	C	G	0.6275	0.0067	0.0011
rs7593817	2	8,022,188	A	G	0.6246	0.0067	0.0011
rs149120550	19	13,009,789	A	G	0.0096	0.0340	0.0055
rs78841298	16	65,723,726	A	T	0.0149	0.0268	0.0043
rs6669004	1	110,906,780	A	G	0.7254	-0.0072	0.0012
rs35345466	10	11,604,399	A	T	0.2641	0.0073	0.0012
rs11841508	13	88,683,971	T	C	0.3006	0.0070	0.0011
rs4597364	17	51,875,791	T	C	0.6643	-0.0069	0.0011
rs4945872	6	111,378,759	T	C	0.4026	0.0066	0.0011
rs116590014	5	119,947,712	T	C	0.2824	0.0072	0.0012
rs2958370	8	71,082,718	A	G	0.1026	0.0106	0.0017

rs12054166	3	150,093,445	C	G	0.7352	0.0073	0.0012
rs7195739	16	12,648,795	A	G	0.1481	0.0091	0.0015
rs12425533	12	59,367,493	A	G	0.7542	-0.0075	0.0012
rs76098418	9	108,980,064	C	G	0.955	-0.0156	0.0025
rs114545261	6	25,185,063	C	G	0.9952	0.0480	0.0078
rs146894375	2	162,283,458	T	C	0.0037	-0.0551	0.0089
rs7663065	4	28,687,406	A	G	0.6598	-0.0068	0.0011
rs13147370	4	3,282,809	C	G	0.2121	-0.0079	0.0013
rs13140513	4	97,427,696	A	G	0.7064	-0.0071	0.0011
rs111341725	2	207,258,925	T	C	0.1487	-0.0091	0.0015
rs7422004	2	161,313,637	A	T	0.1325	0.0096	0.0016
rs77488630	22	39,783,374	C	G	0.0247	0.0210	0.0034
rs1407536	6	16,814,885	A	G	0.7396	-0.0073	0.0012
rs7078184	10	98,250,191	A	G	0.1968	-0.0081	0.0013
rs9849462	3	132,799,943	T	C	0.2959	0.0071	0.0011
rs2456523	15	53,082,481	T	G	0.7463	0.0074	0.0012
rs114340522	2	206,850,862	C	G	0.0528	0.0145	0.0023
rs77593562	2	58,951,075	T	C	0.1437	0.0092	0.0015
rs2490392	1	243,462,523	A	G	0.8332	-0.0086	0.0014
rs139544582	13	58,825,795	A	G	0.9729	0.0202	0.0033
rs117769860	10	8,544,627	T	C	0.9859	0.0275	0.0045
rs10780261	9	81,434,850	T	C	0.845	-0.0089	0.0014
rs12461559	19	12,917,100	C	G	0.2053	0.0080	0.0013
rs11603378	11	2,165,173	T	G	0.7497	-0.0075	0.0012
rs12891815	14	58,100,140	A	T	0.5166	0.0064	0.0010
rs12915175	15	74,049,061	A	G	0.1833	-0.0083	0.0014
rs2447643	10	53,762,669	A	G	0.5257	0.0064	0.0010
rs11180882	12	41,784,997	T	C	0.7638	-0.0076	0.0012
rs6455854	6	163,304,290	A	G	0.5613	-0.0065	0.0011
rs61350676	20	59,015,127	A	G	0.1752	0.0085	0.0014
rs35754740	16	63,127,870	T	C	0.5786	0.0065	0.0011
rs72625765	15	66,260,432	A	G	0.0746	0.0142	0.0023
rs314910	2	125,960,605	T	C	0.4734	-0.0064	0.0010
rs655627	11	134,021,859	A	G	0.5518	-0.0065	0.0011
rs34543037	15	78,016,551	T	C	0.9108	0.0113	0.0018
rs6730216	2	208,833,257	T	C	0.2644	0.0073	0.0012
rs2743451	22	42,534,682	T	C	0.5392	0.0064	0.0011
rs2553041	2	63,238,346	C	G	0.186	0.0083	0.0013
rs9310565	3	18,441,277	T	C	0.1623	-0.0087	0.0014
rs17365719	2	11,073,506	T	C	0.1541	0.0089	0.0015
rs9849808	3	81,252,454	T	C	0.466	-0.0064	0.0010
rs4246218	12	23,698,387	C	G	0.2398	0.0075	0.0012
rs9875	20	42,825,487	T	C	0.6886	-0.0069	0.0011
rs80159981	1	162,332,368	T	C	0.8576	0.0092	0.0015
rs7089990	10	65,077,923	C	G	0.9435	-0.0140	0.0023
rs76130193	12	116,527,742	T	C	0.0801	-0.0118	0.0019
rs3935792	5	141,231,993	C	G	0.5243	-0.0065	0.0011
rs1637492	7	87,611,115	A	G	0.4916	-0.0064	0.0010

rs13158057	5	92,028,035	T	C	0.3254	0.0069	0.0011
rs12980955	19	19,283,646	T	C	0.4388	0.0065	0.0011
rs13291602	9	27,806,830	T	G	0.4468	-0.0065	0.0011
rs6024420	20	54,371,100	T	C	0.3061	-0.0070	0.0011
rs191569854	4	83,311,621	C	G	0.9496	-0.0148	0.0024
rs7855503	9	86,381,638	C	G	0.3465	0.0067	0.0011
rs17307574	3	53,345,623	T	C	0.6004	-0.0065	0.0011
rs61964892	13	42,300,560	T	C	0.788	-0.0078	0.0013
rs11001230	10	76,733,768	A	G	0.0668	0.0128	0.0021
rs12523817	6	63,142,556	T	C	0.7563	0.0075	0.0012
rs4899200	14	39,737,911	T	C	0.273	-0.0072	0.0012
rs2810490	9	136,923,118	A	G	0.3032	-0.0070	0.0011
rs725822	2	207,732,113	T	C	0.6498	0.0067	0.0011
rs12047108	1	191,490,610	T	C	0.8953	0.0105	0.0017
rs7785982	7	8,457,706	T	C	0.1047	-0.0105	0.0017
rs2723461	7	13,412,732	C	G	0.7633	0.0076	0.0012
rs3111336	7	68,812,224	T	G	0.3228	-0.0069	0.0011
rs1809471	11	43,573,947	T	C	0.4658	0.0064	0.0010
rs11657063	17	7,745,298	T	C	0.1036	0.0105	0.0017
rs6758002	2	194,329,828	T	C	0.3389	0.0068	0.0011
rs234644	1	184,833,344	A	G	0.507	-0.0064	0.0010
rs6010675	20	62,468,726	T	C	0.9497	-0.0148	0.0024
rs10507085	12	97,786,700	T	C	0.0744	-0.0122	0.0020
rs7176675	15	95,257,956	T	C	0.3673	-0.0066	0.0011
rs1521754	2	139,415,944	A	C	0.3223	0.0069	0.0011
rs7658615	4	173,508,180	A	G	0.5284	-0.0064	0.0010
rs12518098	5	60,864,467	C	G	0.6961	-0.0070	0.0011
rs12454524	18	41,455,689	A	C	0.2631	-0.0073	0.0012
rs11898641	2	100,895,162	T	C	0.8433	-0.0088	0.0014
rs10859638	12	94,433,035	A	G	0.2427	-0.0075	0.0012
rs1903358	5	92,632,605	A	G	0.3061	-0.0071	0.0012
rs7448571	5	92,643,805	A	C	0.7169	-0.0071	0.0012
rs35783321	5	167,955,301	A	C	0.2041	0.0079	0.0013
rs138850618	1	72,618,582	T	C	0.9726	0.0198	0.0032
rs7703179	5	169,032,330	C	G	0.6285	0.0066	0.0011
rs118084175	16	69,125,648	T	C	0.0397	-0.0164	0.0027
rs11994287	8	24,559,154	A	T	0.3383	0.0068	0.0011
rs197480	6	143,070,505	T	C	0.0423	0.0160	0.0026
rs72837734	17	50,471,215	T	G	0.8572	0.0106	0.0017
rs13295049	9	23,390,218	A	G	0.0317	0.0189	0.0031
rs2529221	7	101,434,494	A	G	0.7222	0.0071	0.0012
rs113831544	2	23,912,050	A	T	0.0522	-0.0144	0.0024
rs67033024	14	73,512,560	A	G	0.8643	0.0093	0.0015
rs6043521	20	15,739,745	T	C	0.6007	-0.0065	0.0011
rs147873370	2	156,900,939	T	C	0.6393	-0.0067	0.0011
rs77607745	13	69,575,184	A	C	0.8134	0.0082	0.0013
rs12254572	10	67,767,283	C	G	0.1694	-0.0086	0.0014
rs10018425	4	91,810,508	T	C	0.5202	-0.0064	0.0010

rs6986186	8	77,752,035	A	G	0.9097	-0.0112	0.0018
rs11163064	1	81,075,626	C	G	0.7894	-0.0078	0.0013
rs2303969	11	72,536,272	A	G	0.3387	-0.0068	0.0011
rs9652254	13	84,759,044	A	G	0.5881	0.0065	0.0011
rs34627316	5	57,960,995	A	G	0.0432	-0.0157	0.0026
rs12548560	8	130,107,054	A	G	0.6859	0.0069	0.0011
rs56884508	4	36,740,043	T	C	0.8751	0.0097	0.0016
rs73154546	22	34,271,689	A	C	0.0387	0.0166	0.0027
rs402490	4	39,842,817	T	C	0.6501	0.0067	0.0011
rs2216053	16	52,296,798	T	G	0.7391	-0.0073	0.0012
rs4957837	5	109,219,117	A	C	0.3224	0.0068	0.0011
rs28385630	6	40,400,877	A	G	0.0794	0.0118	0.0019
rs10177230	2	53,715,181	T	C	0.4924	0.0064	0.0010
rs72771232	5	82,857,040	T	C	0.9224	-0.0120	0.0020
rs4470366	2	71,534,617	A	T	0.5842	0.0065	0.0011
rs111962691	6	98,521,230	A	G	0.0525	0.0147	0.0024
rs73040431	3	24,604,377	A	G	0.0763	0.0120	0.0020
rs145481578	5	59,557,590	T	C	0.0199	0.0235	0.0039
rs71529384	7	5,292,968	A	G	0.3697	-0.0067	0.0011
rs13030015	2	63,024,653	A	G	0.1948	-0.0081	0.0013
rs474000	18	2,731,752	A	G	0.441	0.0064	0.0011
rs4860418	4	62,421,204	T	C	0.4884	-0.0064	0.0010
rs12790613	11	122,646,967	A	G	0.3206	-0.0069	0.0011
rs55749333	17	7,371,932	T	C	0.6416	-0.0066	0.0011
rs12107377	3	192,150,817	A	G	0.5155	0.0064	0.0010
rs77363699	18	30,626,497	A	T	0.074	-0.0133	0.0022
rs12349467	9	108,831,872	A	G	0.6902	0.0069	0.0011
rs1320163	3	43,303,296	A	G	0.1527	-0.0089	0.0015
rs10860219	12	97,959,792	A	G	0.8352	0.0086	0.0014
rs921957	8	119,107,434	A	G	0.7742	0.0076	0.0013
rs375817346	3	102,859,439	A	C	0.9393	-0.0141	0.0023
rs10894736	11	133,588,430	T	C	0.1962	-0.0081	0.0013
rs1490834	5	107,050,463	A	G	0.5352	-0.0064	0.0010
rs12449488	17	6,358,174	A	G	0.681	-0.0068	0.0011
rs9287526	2	140,641,552	C	G	0.1776	0.0083	0.0014
rs6925960	6	33,968,415	A	G	0.0328	-0.0181	0.0030
rs4743729	9	99,097,872	A	C	0.3238	-0.0068	0.0011
rs3911295	1	77,838,907	A	T	0.18	0.0083	0.0014
rs1881975	3	184,046,042	A	G	0.7657	0.0075	0.0012
rs34891372	14	100,171,990	A	G	0.3779	-0.0066	0.0011
rs755043	10	80,110,426	A	G	0.5115	-0.0064	0.0010
rs75352055	1	93,953,600	A	T	0.9762	-0.0209	0.0034
rs7302808	12	12,420,232	T	C	0.4706	0.0064	0.0011
rs2025258	14	24,654,489	T	C	0.6519	0.0067	0.0011
rs74677779	3	78,381,089	C	G	0.9566	-0.0156	0.0026
rs2562733	7	128,106,870	A	T	0.5819	-0.0068	0.0011
rs11082115	18	36,508,540	T	C	0.4045	0.0065	0.0011
rs116914290	16	750,179	T	C	0.0153	0.0264	0.0043

rs10765371	11	90,344,157	A	T	0.8591	-0.0091	0.0015
rs72670235	1	67,020,516	A	G	0.1636	-0.0086	0.0014
rs17812637	2	103,585,664	A	G	0.0816	0.0116	0.0019
rs12213071	6	118,401,119	A	G	0.7735	0.0076	0.0013
rs56322375	17	32,906,373	T	G	0.2327	-0.0076	0.0012
rs7151406	14	50,806,723	A	G	0.5607	0.0064	0.0011
rs10777906	12	98,542,779	A	G	0.4419	0.0064	0.0011
rs10948447	6	48,841,940	A	G	0.5277	-0.0064	0.0010
rs12144850	1	117,995,899	A	C	0.7448	0.0073	0.0012
rs1582890	5	113,881,132	C	G	0.7506	-0.0074	0.0012
rs19141313	3	49,745,681	A	G	0.011	0.0313	0.0052
rs4845604	1	151,801,680	A	G	0.1426	0.0091	0.0015
rs7981839	13	84,061,991	A	C	0.8194	0.0083	0.0014
rs10815961	9	8,818,758	T	C	0.497	0.0063	0.0010
rs952062	5	13,739,867	A	T	0.1157	0.0102	0.0017
rs11166284	13	58,446,860	T	C	0.013	-0.0283	0.0047
rs4951645	1	213,045,541	A	T	0.5511	0.0064	0.0011
rs12375473	9	23,064,528	T	C	0.1053	-0.0103	0.0017
rs73153727	3	147,652,324	T	C	0.0184	-0.0239	0.0039
rs2643765	7	128,479,367	T	C	0.9473	-0.0143	0.0024
rs34514546	14	69,833,730	A	G	0.0709	0.0125	0.0021
rs10741228	10	129,152,153	T	C	0.4316	-0.0064	0.0011
rs2124033	1	74,327,371	A	G	0.7376	-0.0073	0.0012
rs12983038	19	39,741,124	A	G	0.1914	-0.0081	0.0013
rs4714990	6	12,927,845	T	C	0.6197	0.0065	0.0011
rs7709041	5	12,702,044	T	G	0.1568	-0.0087	0.0014
rs17150492	5	122,916,804	A	G	0.9173	0.0115	0.0019
rs10800641	1	199,529,533	A	G	0.7986	0.0079	0.0013
rs155943	5	139,529,987	A	T	0.4714	0.0064	0.0010
rs73969295	2	166,399,114	A	G	0.0939	-0.0109	0.0018
rs4484264	4	72,345,336	A	G	0.1601	0.0086	0.0014
rs11715986	15	40,883,919	A	C	0.0324	-0.0181	0.0030
rs66523149	3	152,909,603	T	C	0.6817	-0.0068	0.0011
rs10053681	5	30,669,256	A	G	0.226	0.0076	0.0013
rs61546403	5	106,307,386	T	C	0.7137	0.0070	0.0012
rs80020939	18	38,905,390	A	T	0.0497	-0.0146	0.0024
rs17100414	14	74,934,621	T	C	0.8301	0.0084	0.0014
rs10916679	1	20,286,563	A	C	0.2682	0.0071	0.0012
rs11677652	2	160,514,224	C	G	0.0384	0.0165	0.0027
rs485035	1	212,626,591	A	G	0.3112	-0.0068	0.0011
rs2214631	7	88,507,921	A	T	0.2788	0.0071	0.0012
rs1943117	18	50,406,410	T	C	0.8486	-0.0088	0.0015
rs4869579	5	38,231,257	T	C	0.5202	0.0063	0.0010
rs74677340	1	50,838,544	T	C	0.953	-0.0151	0.0025
rs10842296	12	24,395,272	T	C	0.2448	0.0074	0.0012
rs71366589	17	4,004,590	T	C	0.9794	0.0225	0.0037
rs74969066	11	43,264,801	T	C	0.07	0.0124	0.0021
rs3768923	2	237,023,132	T	G	0.546	0.0064	0.0011

rs11184996	1	107,403,292	T	C	0.9035	-0.0107	0.0018
rs5768157	22	48,315,016	A	G	0.6631	0.0067	0.0011
rs118146271	20	41,738,135	T	C	0.9783	-0.0218	0.0036
rs4775702	15	47,991,205	T	G	0.1759	0.0083	0.0014
rs2538046	7	151,314,162	A	G	0.4989	-0.0063	0.0010
rs7114098	11	84,316,886	A	C	0.1691	-0.0084	0.0014
rs757436	19	3,826,749	A	T	0.4039	0.0065	0.0011
rs56075787	17	80,481,434	T	C	0.2271	-0.0076	0.0013
rs12071705	1	151,430,504	C	G	0.8277	0.0084	0.0014
rs1108512	6	17,282,415	C	G	0.7709	0.0075	0.0012
rs34725898	6	163,127,302	T	C	0.1153	0.0099	0.0016
rs79602383	17	11,925,336	T	C	0.7842	-0.0077	0.0013
rs13140041	4	174,352,369	A	G	0.5414	-0.0064	0.0011
rs4882141	11	48,627,525	T	C	0.6448	0.0066	0.0011
rs468222	5	141,027,400	C	G	0.3105	-0.0068	0.0011
rs75445469	1	90,984,377	C	G	0.0408	0.0160	0.0026
rs11752914	6	155,910,988	T	C	0.8043	0.0080	0.0013
rs72885416	6	67,489,152	A	T	0.8859	-0.0099	0.0016
rs179942	6	16,398,917	T	C	0.4019	-0.0065	0.0011
rs724072	4	186,811,571	A	C	0.2784	-0.0070	0.0012
rs12615721	2	81,856,526	A	G	0.08	-0.0116	0.0019
rs9928897	16	13,605,058	T	C	0.0666	-0.0127	0.0021
rs72824321	5	164,445,654	A	G	0.0403	-0.0161	0.0027
rs118057662	9	83,552,501	T	G	0.9556	0.0154	0.0025
rs143747834	7	34,675,652	C	G	0.2053	-0.0078	0.0013
rs16898036	4	19,056,417	A	G	0.2622	0.0072	0.0012
rs1861109	2	59,384,873	C	G	0.3625	0.0066	0.0011
rs1151282	16	54,627,052	A	C	0.282	0.0070	0.0012
rs147448772	9	73,091,254	A	C	0.033	-0.0179	0.0030
rs2278758	3	35,779,082	A	G	0.121	-0.0097	0.0016
rs707247	17	67,426,612	A	T	0.4767	0.0063	0.0010
rs10150280	14	72,009,999	A	G	0.6996	0.0069	0.0011
rs12150824	18	5,922,014	A	G	0.2617	0.0072	0.0012
rs12515501	5	168,657,869	A	G	0.8557	-0.0090	0.0015
rs6061461	20	60,815,755	C	G	0.4895	-0.0063	0.0010
rs10748559	10	93,077,075	T	C	0.6111	-0.0066	0.0011
rs12491849	3	48,531,227	T	C	0.3962	-0.0065	0.0011
rs79747966	2	239,965,444	T	C	0.1521	-0.0088	0.0015
rs7624892	3	105,220,625	A	G	0.8914	0.0101	0.0017
rs72856150	6	40,274,667	A	G	0.1348	-0.0092	0.0015
rs55745100	21	33,016,364	T	C	0.9462	-0.0140	0.0023
rs67888396	3	2,549,510	T	G	0.8348	-0.0085	0.0014
rs58100125	2	203,040,744	C	G	0.3481	0.0066	0.0011
rs138759391	4	3,165,646	A	C	0.9784	-0.0222	0.0037
rs4974300	3	70,635,094	A	G	0.22	-0.0076	0.0013
rs35079242	12	68,230,208	T	G	0.132	-0.0093	0.0015
rs72683987	1	44,491,905	T	C	0.0614	-0.0131	0.0022
rs1691017	5	3,246,853	A	G	0.4754	0.0063	0.0010

rs9729347	1	99,130,265	T	C	0.6914	-0.0068	0.0011
rs12209720	6	112,998,611	T	C	0.7379	-0.0072	0.0012
rs1514572	4	130,160,706	A	C	0.4554	-0.0063	0.0011
rs9813034	3	137,281,630	T	G	0.6467	-0.0066	0.0011
rs13284474	9	119,622,710	T	C	0.4413	0.0063	0.0011
rs2313547	4	16,427,592	T	C	0.5026	0.0063	0.0010
rs1862611	5	63,074,852	A	T	0.3207	0.0068	0.0011
rs2028789	13	94,113,389	T	C	0.1378	0.0091	0.0015
rs1217437	2	50,535,942	C	G	0.3781	0.0065	0.0011
rs62070652	17	29,221,277	T	C	0.2705	-0.0071	0.0012
rs138465058	3	71,617,859	A	G	0.1059	-0.0103	0.0017
rs10441105	7	41,821,956	C	G	0.4858	0.0063	0.0010
rs2237429	7	42,031,224	A	C	0.1917	0.0080	0.0013
rs12078410	1	179,409,877	T	C	0.4731	0.0063	0.0010
rs112706692	10	69,047,439	T	C	0.0238	0.0214	0.0036
rs75681403	4	3,212,495	C	G	0.9756	-0.0206	0.0034
rs7086516	10	103,805,076	T	C	0.7509	0.0073	0.0012
rs4940668	18	56,032,231	A	G	0.7003	-0.0069	0.0011
rs11793547	9	134,831,595	A	T	0.0154	-0.0256	0.0043
rs34124911	3	169,854,671	T	C	0.5886	-0.0064	0.0011
rs729432	16	73,791,860	A	G	0.5776	-0.0064	0.0011
rs113179456	2	51,347,742	T	C	0.0205	0.0224	0.0037
rs6717169	2	142,180,831	T	C	0.8065	0.0080	0.0013
rs2395973	8	131,011,699	T	C	0.2707	0.0071	0.0012
rs17767951	6	66,143,736	C	G	0.7582	-0.0080	0.0013
rs374722	2	147,839,830	A	G	0.8497	0.0088	0.0015
rs76335349	7	126,490,550	A	G	0.0919	-0.0109	0.0018
rs113731629	4	170,984,229	T	C	0.9865	0.0274	0.0046
rs1001060	11	112,537,243	T	C	0.5343	0.0063	0.0010
rs8043948	16	65,603,269	A	G	0.482	-0.0063	0.0010
rs1650823	11	129,758,327	A	G	0.7041	0.0069	0.0011
rs2960270	7	101,933,047	A	G	0.8236	0.0083	0.0014
rs80090296	18	42,110,459	T	C	0.1693	-0.0084	0.0014
rs1226950	2	230,174,164	A	G	0.9456	0.0138	0.0023
rs10875882	12	49,260,691	T	C	0.4641	-0.0063	0.0010
rs7326484	13	89,733,492	A	T	0.2142	0.0077	0.0013
rs34632631	21	46,561,110	T	C	0.0307	-0.0184	0.0031
rs1063478	6	32,917,544	T	C	0.1242	-0.0095	0.0016
rs28415206	1	230,176,827	T	G	0.7981	0.0078	0.0013
rs72713578	1	174,399,558	C	G	0.0736	0.0121	0.0020
rs148189988	3	107,974,309	A	G	0.0096	0.0332	0.0055
rs35280154	1	211,022,376	A	C	0.6233	-0.0065	0.0011
rs1427323	14	59,416,842	T	C	0.313	0.0068	0.0011
rs1006749	20	41,716,653	A	G	0.5199	0.0063	0.0011
rs348036	13	80,792,899	T	G	0.1936	-0.0080	0.0013
rs2194890	4	68,071,570	T	C	0.7593	0.0074	0.0012
rs9861585	3	77,714,670	T	C	0.5375	0.0063	0.0010
rs77397926	2	142,341,391	T	C	0.6111	-0.0064	0.0011

rs11884242	2	61,846,674	C	G	0.1808	0.0082	0.0014
rs2596125	8	76,642,325	T	C	0.4163	0.0064	0.0011
rs73224985	3	139,711,322	A	G	0.7929	-0.0077	0.0013
rs637096	6	6,555,790	A	G	0.4187	0.0064	0.0011
rs55809234	14	29,809,876	T	C	0.9609	0.0164	0.0027
rs9267650	6	31,824,912	A	T	0.9514	0.0146	0.0024
rs2797131	10	32,085,988	A	G	0.22	0.0076	0.0013
rs12117137	1	34,205,134	T	C	0.6672	0.0067	0.0011
rs474210	6	148,244,701	A	C	0.4802	-0.0063	0.0010
rs12976992	19	50,818,776	A	G	0.5222	-0.0063	0.0011
rs9875943	3	34,676,421	A	G	0.1097	0.0100	0.0017
rs12692542	2	160,065,027	A	G	0.2234	0.0075	0.0013
rs17007397	3	70,594,975	C	G	0.5821	0.0063	0.0011
rs7134506	12	23,860,334	T	C	0.4363	-0.0063	0.0011
rs2237432	7	41,735,034	T	C	0.7528	-0.0073	0.0012
rs3910785	18	49,849,857	T	C	0.6684	0.0066	0.0011
rs11184849	1	106,851,037	T	C	0.3528	-0.0066	0.0011
rs112045865	3	118,619,880	C	G	0.0306	-0.0187	0.0031
rs78731367	3	47,400,308	T	C	0.0337	0.0177	0.0030
rs9318984	13	84,438,318	A	G	0.051	-0.0142	0.0024
rs2044169	17	2,394,896	A	G	0.3217	0.0068	0.0011
rs10095575	8	41,327,101	T	C	0.0473	-0.0147	0.0025
rs10155336	4	22,280,964	C	G	0.0416	-0.0157	0.0026
rs28737363	5	4,230,573	A	C	0.3004	-0.0069	0.0012
rs1429370	2	141,599,025	C	G	0.0704	-0.0122	0.0020
rs6547148	2	77,747,513	T	C	0.459	0.0063	0.0011
rs10821375	9	97,363,859	T	C	0.4407	0.0063	0.0011
rs7665498	4	25,001,578	T	C	0.4199	-0.0063	0.0011
rs17706089	7	67,064,242	T	C	0.8156	-0.0081	0.0013
rs9626920	22	46,428,993	A	G	0.4113	0.0064	0.0011
rs4544378	2	161,246,317	T	C	0.4252	0.0064	0.0011
rs11871722	17	61,675,576	T	C	0.2626	0.0071	0.0012
rs2008486	14	89,863,756	A	C	0.5046	-0.0063	0.0010
rs13434878	4	130,542,951	A	C	0.2983	-0.0068	0.0011
rs139472275	2	103,895,426	T	C	0.1189	0.0097	0.0016
rs34805686	1	41,807,416	A	G	0.0272	-0.0193	0.0032
rs11755280	6	118,117,246	T	C	0.7393	-0.0071	0.0012
rs57810758	14	49,941,647	A	G	0.8967	0.0103	0.0017
rs533123	1	29,141,155	A	G	0.8058	-0.0079	0.0013
rs483368	3	118,141,050	A	C	0.8494	0.0087	0.0015
rs2240662	19	32,537,173	T	G	0.342	-0.0066	0.0011
rs7754547	6	69,347,206	T	G	0.6967	-0.0068	0.0011
rs356903	18	26,284,807	T	C	0.2517	-0.0072	0.0012
rs12437429	14	33,126,543	A	G	0.3002	0.0068	0.0011
rs28714464	1	97,857,902	T	C	0.2042	0.0078	0.0013
rs7825105	8	111,600,991	A	G	0.2775	-0.0070	0.0012
rs2154209	14	57,586,697	T	C	0.7976	-0.0078	0.0013
rs11919143	3	118,675,744	A	T	0.2405	0.0073	0.0012

rs13298735	9	75,082,726 T	C	0.9643	-0.0168	0.0028
rs1379472	12	23,327,638 T	C	0.5207	-0.0062	0.0010
rs1054378	17	7,215,536 T	C	0.4233	0.0063	0.0011
rs4074661	6	16,901,138 A	G	0.3984	-0.0064	0.0011
rs6440854	3	152,948,430 A	G	0.8769	0.0095	0.0016
rs9968	6	29,501,037 C	G	0.5266	-0.0063	0.0011
rs12473320	2	115,650,305 A	G	0.4902	0.0062	0.0010
rs987000	7	122,308,992 T	C	0.1968	-0.0078	0.0013
rs7749979	6	52,220,229 T	C	0.7073	-0.0068	0.0012
rs7125115	11	118,478,330 A	G	0.3748	-0.0065	0.0011
rs2543621	8	30,870,317 A	G	0.9664	0.0178	0.0030
rs35170529	5	111,818,951 T	C	0.8861	-0.0098	0.0016
rs17101344	14	33,970,832 A	G	0.7695	-0.0074	0.0013
rs116844765	12	87,135,645 T	G	0.9893	-0.0304	0.0051
rs80216782	1	97,830,969 T	C	0.1374	-0.0091	0.0015
rs12333	15	65,869,272 T	C	0.2476	-0.0072	0.0012
rs112650421	12	101,399,617 T	G	0.0236	-0.0206	0.0035
rs114871711	3	49,806,982 C	G	0.0208	0.0221	0.0037
rs517052	1	234,760,600 A	T	0.5954	-0.0064	0.0011
rs1925623	10	68,771,397 T	C	0.4233	0.0063	0.0011
rs2934510	5	2,920,100 T	C	0.2309	0.0074	0.0012
rs1470516	1	159,573,150 A	G	0.4386	0.0063	0.0011
rs79692137	18	36,140,233 C	G	0.1148	-0.0098	0.0016
rs2815312	1	77,761,377 T	C	0.199	-0.0078	0.0013
rs9599628	13	70,911,605 T	C	0.3607	0.0065	0.0011
rs2223728	21	22,233,992 A	G	0.3506	-0.0065	0.0011
rs2675049	2	183,893,285 T	C	0.9039	0.0105	0.0018
rs11641504	16	10,205,824 C	G	0.7142	-0.0069	0.0012
rs115318845	2	82,900,454 T	C	0.0143	-0.0263	0.0044
rs2854394	3	48,621,593 T	C	0.969	-0.0180	0.0030
rs7584255	2	213,848,727 T	C	0.7521	0.0072	0.0012
rs80111165	2	51,550,071 T	G	0.8762	0.0095	0.0016
rs16890200	5	59,095,673 T	C	0.067	-0.0124	0.0021
rs74844193	1	153,615,820 A	G	0.0161	-0.0295	0.0050
rs565522	1	112,261,533 T	C	0.5635	0.0063	0.0011
rs73040337	3	18,457,943 T	C	0.7712	-0.0074	0.0013
rs141503355	7	1,924,215 T	C	0.013	-0.0284	0.0048
rs4821904	22	39,902,525 T	C	0.6061	0.0064	0.0011
rs13102416	4	83,325,914 A	C	0.5795	-0.0063	0.0011
rs12447904	16	60,452,186 T	G	0.6111	0.0064	0.0011
rs1501312	16	13,137,096 T	G	0.6904	0.0067	0.0011
rs10860215	12	97,863,578 T	C	0.134	-0.0091	0.0015
rs17516383	19	54,926,182 A	G	0.3112	0.0069	0.0012
rs1404549	3	65,454,923 A	G	0.3231	-0.0066	0.0011
rs803786	13	71,621,124 A	G	0.6083	0.0064	0.0011
rs59832377	20	18,571,333 T	C	0.5576	-0.0062	0.0011
rs10032922	4	1,781,296 T	C	0.3275	0.0067	0.0011
rs142662811	3	49,590,756 T	C	0.0037	-0.0533	0.0090

rs6748621	2	32,262,201	T	C	0.6074	0.0064	0.0011
rs115828262	2	60,905,863	T	C	0.0108	-0.0303	0.0051
rs6860867	5	113,657,556	A	G	0.1571	0.0085	0.0014
rs10900534	1	203,915,457	T	C	0.555	0.0062	0.0011
rs62070561	17	50,560,183	A	T	0.9642	-0.0170	0.0029
rs8048012	16	13,918,873	A	G	0.1729	0.0082	0.0014
rs10736856	9	135,490,787	T	C	0.6739	0.0066	0.0011
rs4737137	8	40,344,076	T	C	0.7432	0.0071	0.0012
rs10965856	9	23,424,336	A	G	0.9256	0.0119	0.0020
rs77928496	3	82,663,937	A	G	0.8601	0.0090	0.0015
rs7123652	11	117,377,518	T	C	0.767	-0.0073	0.0012
rs17021464	3	84,405,133	C	G	0.0476	-0.0145	0.0025
rs17144422	16	7,690,419	T	C	0.1706	-0.0082	0.0014
rs10743083	11	8,636,350	A	G	0.1775	0.0082	0.0014
rs10920336	1	202,115,945	A	G	0.5208	0.0062	0.0011
rs72725852	1	87,720,852	T	C	0.3216	0.0066	0.0011
rs9342683	6	68,786,751	A	G	0.8506	-0.0087	0.0015
rs55972942	15	51,426,007	T	C	0.6574	-0.0065	0.0011
rs7070247	10	11,151,151	A	G	0.2616	-0.0070	0.0012
rs12231481	12	23,739,437	T	C	0.1817	-0.0080	0.0014
rs1524442	7	113,060,880	T	C	0.5422	0.0062	0.0011
rs10164318	19	33,459,298	T	G	0.3276	0.0066	0.0011
rs1360224	9	23,713,125	C	G	0.2392	-0.0073	0.0012
rs77694416	5	122,423,650	A	G	0.0723	0.0120	0.0020
rs4971091	1	155,143,768	T	G	0.3694	-0.0064	0.0011
rs10256396	7	151,124,989	A	C	0.3382	0.0065	0.0011
rs373789515	7	2,141,956	A	G	0.011	-0.0343	0.0058
rs111444532	2	161,565,445	A	G	0.9343	-0.0125	0.0021
rs12156187	8	17,049,377	A	C	0.8367	-0.0084	0.0014
rs2481061	9	33,106,139	A	G	0.4162	0.0063	0.0011
rs9998726	4	131,315,417	T	C	0.4311	-0.0063	0.0011
rs71365671	18	35,227,017	T	C	0.0764	0.0119	0.0020
rs12905247	15	82,236,187	T	G	0.5135	0.0062	0.0010
rs75888251	10	65,218,832	T	C	0.0716	0.0123	0.0021
rs785113	1	40,154,983	T	C	0.2265	0.0074	0.0013
rs7505415	18	37,685,909	A	G	0.2634	-0.0070	0.0012
rs4909854	8	136,017,359	T	G	0.6173	-0.0064	0.0011
rs10142459	14	92,577,044	T	C	0.546	0.0062	0.0011
rs1446332	15	80,666,739	T	C	0.3428	0.0065	0.0011
rs526156	6	69,556,840	A	C	0.1108	-0.0098	0.0017
rs10054805	5	62,607,104	T	C	0.1208	0.0095	0.0016
rs217181	16	72,114,002	T	C	0.194	-0.0078	0.0013
rs3818083	14	101,979,747	A	T	0.4658	0.0062	0.0010
rs2499738	6	33,910,243	C	G	0.5793	-0.0063	0.0011
rs191103	14	59,092,075	T	C	0.4862	0.0062	0.0010
rs4663416	2	235,363,663	T	C	0.5336	0.0062	0.0010
rs17698176	17	44,819,595	T	G	0.7864	-0.0076	0.0013
rs80322007	6	157,771,378	T	C	0.7688	-0.0075	0.0013

rs4879832	9	34,830,432 T	C	0.3772	-0.0064	0.0011
rs67190144	15	93,469,932 T	G	0.2482	0.0072	0.0012
rs28622594	16	5,436,281 A	G	0.4422	-0.0062	0.0011
rs62622853	11	70,333,498 T	C	0.9737	0.0196	0.0033
rs77232327	1	74,295,238 A	G	0.9399	0.0130	0.0022
rs13213319	6	71,081,376 T	G	0.4408	-0.0062	0.0011
rs2216009	2	40,590,958 T	G	0.4502	0.0062	0.0011
rs1610243	3	104,225,506 T	C	0.6186	-0.0064	0.0011
rs7543410	1	232,618,155 T	G	0.2422	0.0072	0.0012
rs75225029	1	174,126,401 T	C	0.9936	0.0393	0.0067
rs12801458	11	93,442,982 A	T	0.0784	-0.0115	0.0020
rs72697581	4	167,893,608 A	G	0.9248	0.0118	0.0020
rs6784009	3	20,326,562 A	G	0.8455	0.0085	0.0014
rs113528211	2	172,842,478 A	T	0.7686	0.0077	0.0013
rs79925479	20	47,855,655 T	G	0.0555	0.0135	0.0023
rs115923460	1	98,370,438 A	T	0.9824	0.0236	0.0040
rs11708735	3	159,940,306 T	C	0.2731	0.0069	0.0012
rs73006987	2	155,398,762 A	G	0.8655	-0.0091	0.0015
rs138190448	8	145,878,521 A	G	0.9904	0.0325	0.0055
rs28494514	4	7,889,715 A	G	0.4388	0.0062	0.0011
rs7184863	16	64,935,433 T	G	0.8196	0.0080	0.0014
rs3900166	2	211,255,870 A	T	0.5632	0.0062	0.0011
rs34010978	5	144,509,298 A	G	0.09	0.0108	0.0018
rs34417622	2	107,611,917 A	G	0.1654	0.0083	0.0014
rs7027899	9	14,248,934 A	G	0.81	0.0114	0.0019
rs72879788	2	166,509,620 T	C	0.869	0.0091	0.0016
rs2632667	12	131,271,293 A	G	0.5062	-0.0062	0.0010
rs73456245	18	56,911,835 T	C	0.2206	0.0075	0.0013
rs1472009	16	83,452,585 A	G	0.5983	-0.0063	0.0011
rs11768912	7	104,294,485 T	C	0.8749	0.0093	0.0016
rs7111304	11	45,788,120 A	C	0.1384	0.0089	0.0015
rs26956	5	59,790,985 A	C	0.2824	-0.0068	0.0012
rs80133217	4	176,723,030 A	T	0.0466	0.0151	0.0026
rs503525	5	152,899,250 T	C	0.1542	-0.0085	0.0015
rs2074882	19	1,969,477 T	G	0.3926	0.0063	0.0011
rs117755721	17	11,881,356 A	G	0.0268	0.0194	0.0033
rs4739408	8	35,312,380 T	G	0.5363	0.0062	0.0010
rs4989480	22	32,025,318 A	G	0.8578	-0.0089	0.0015
rs62069505	17	51,892,547 T	C	0.7449	-0.0071	0.0012
rs1706916	7	105,274,812 A	G	0.5723	-0.0062	0.0011
rs116199888	2	50,574,836 A	T	0.9586	-0.0157	0.0027
rs56238233	3	165,804,488 A	C	0.8891	0.0098	0.0017
rs34580115	12	123,525,280 A	G	0.7062	0.0068	0.0012
rs1492027	3	167,469,955 A	G	0.7806	0.0074	0.0013
rs11001967	10	78,768,415 A	G	0.4364	-0.0062	0.0011
rs2729790	15	63,466,427 T	C	0.3759	0.0064	0.0011
rs7027123	9	122,012,643 T	C	0.4523	-0.0062	0.0011
rs295544	5	60,488,167 A	G	0.8124	0.0079	0.0013

rs10046843	9	34,631,159	T	C	0.3491	-0.0064	0.0011
rs79754409	8	5,903,561	A	T	0.8039	0.0077	0.0013
rs7015683	8	145,611,719	T	G	0.5684	0.0062	0.0011
rs10262862	7	132,956,034	T	C	0.6092	0.0063	0.0011
rs7922859	10	118,485,415	T	C	0.7496	0.0071	0.0012
rs77366811	17	19,266,620	T	G	0.0265	-0.0193	0.0033
rs7598129	2	142,494,704	T	C	0.9069	0.0106	0.0018
rs10793903	9	134,976,652	A	G	0.114	0.0097	0.0017
rs62356962	5	56,561,108	T	C	0.8561	-0.0088	0.0015
rs10822116	10	64,822,584	C	G	0.8081	0.0078	0.0013
rs263771	2	185,921,692	A	C	0.2219	-0.0074	0.0013
rs34855181	2	35,559,282	C	G	0.4629	0.0062	0.0010
rs10894382	11	131,243,413	T	C	0.2084	0.0076	0.0013
rs78278808	13	42,869,485	A	G	0.0537	0.0137	0.0023
rs8067165	17	8,031,936	C	G	0.3993	-0.0063	0.0011
rs28536514	1	910,409	T	C	0.8776	0.0098	0.0017
rs7980228	12	9,240,336	A	C	0.9077	0.0106	0.0018
rs11657896	17	32,461,364	T	G	0.3778	0.0063	0.0011
rs7074897	10	26,539,683	A	T	0.8191	0.0080	0.0014
rs6491346	13	97,915,471	A	G	0.0371	-0.0163	0.0028
rs7968682	12	66,371,880	T	G	0.5211	-0.0061	0.0010
rs6953350	7	132,029,229	T	C	0.5853	-0.0062	0.0011
rs73220261	7	122,276,437	T	C	0.9768	0.0207	0.0035
rs55719303	2	10,976,524	A	G	0.7918	0.0076	0.0013
rs2173108	4	44,840,802	T	C	0.136	0.0089	0.0015
rs2905934	11	17,888,607	T	C	0.4212	-0.0062	0.0011
rs77301614	5	139,355,681	T	C	0.921	-0.0114	0.0019
rs2856327	12	11,939,472	T	C	0.154	-0.0092	0.0016
rs10977124	9	8,458,271	A	G	0.2382	-0.0072	0.0012
rs4859423	4	77,031,022	T	C	0.8771	0.0093	0.0016
rs10098073	8	143,309,504	A	C	0.4789	-0.0061	0.0010
rs34249205	9	140,508,031	A	G	0.8669	0.0090	0.0015
rs6557911	8	26,189,230	T	G	0.6567	0.0065	0.0011
rs138329002	15	65,998,371	A	G	0.0161	0.0246	0.0042
rs117350940	16	72,059,840	T	C	0.0171	0.0237	0.0040
rs78102134	17	55,889,297	A	G	0.0872	0.0109	0.0019
rs10117409	9	126,722,513	A	G	0.9299	-0.0120	0.0021
rs62372017	5	59,796,548	T	C	0.9809	-0.0230	0.0039
rs267152	3	76,857,965	A	C	0.8618	-0.0089	0.0015
rs483673	3	151,792,185	A	G	0.2455	-0.0071	0.0012
rs34943464	2	191,251,875	A	G	0.3697	-0.0063	0.0011
rs7707006	5	27,161,172	A	G	0.2846	0.0068	0.0012
rs4997055	5	133,844,545	T	C	0.108	-0.0099	0.0017
rs13026866	2	181,045,656	T	C	0.4379	-0.0062	0.0011
rs114275882	3	70,342,180	T	C	0.9104	-0.0111	0.0019
rs4872389	8	25,909,499	T	C	0.2305	-0.0073	0.0012
rs7517857	1	4,725,585	A	G	0.438	-0.0062	0.0011
rs2729987	8	33,977,161	T	C	0.7863	0.0075	0.0013

rs35226705	19	46,301,456	A	C	0.5358	0.0061	0.0011
rs6994168	8	111,505,925	C	G	0.7765	0.0074	0.0013
rs62488688	8	9,912,613	A	G	0.8363	-0.0083	0.0014
rs2021871	7	150,071,156	T	C	0.6738	0.0065	0.0011
rs28561815	15	47,292,863	T	G	0.2955	0.0068	0.0012
rs6767119	3	128,988,225	T	C	0.1094	-0.0098	0.0017
rs9969765	9	87,489,785	C	G	0.34	-0.0065	0.0011
rs73055568	2	194,641,042	T	G	0.0581	-0.0133	0.0023
rs190737	1	26,899,444	A	C	0.5287	-0.0061	0.0010
rs10875972	12	50,210,535	A	G	0.3409	0.0065	0.0011
rs2001628	8	81,303,039	A	G	0.6133	0.0063	0.0011
rs14162703	2	61,427,563	A	G	0.0252	-0.0199	0.0034
rs4347543	14	49,403,910	T	C	0.6274	-0.0063	0.0011
rs35039660	1	244,278,121	T	C	0.9457	-0.0136	0.0023
rs35769536	6	163,553,106	A	G	0.8486	0.0085	0.0015
rs9598123	13	60,927,098	T	C	0.2214	-0.0074	0.0013
rs12638960	3	167,171,499	A	G	0.09	0.0107	0.0018
rs35065151	4	168,048,900	A	G	0.4411	-0.0062	0.0011
rs9663072	1	103,588,507	A	G	0.6985	-0.0067	0.0011
rs2958942	17	52,948,889	T	C	0.7459	0.0070	0.0012
rs4414947	4	21,088,559	T	C	0.5846	0.0063	0.0011
rs2531687	10	118,637,809	A	G	0.3794	0.0063	0.0011
rs2535692	22	18,157,282	A	G	0.2731	0.0069	0.0012
rs10995839	10	52,900,447	A	C	0.8424	-0.0084	0.0014
rs14487300	7	126,149,386	T	C	0.0131	-0.0277	0.0047
rs11142096	19	13,312,329	T	C	0.1711	-0.0082	0.0014
rs9929596	16	76,068,215	T	C	0.2386	-0.0072	0.0012
rs14991455	4	79,697,870	A	C	0.0349	0.0172	0.0030
rs9537509	13	57,509,685	T	C	0.7447	-0.0070	0.0012
rs18397751	3	49,378,793	A	T	0.9936	0.0401	0.0069
rs7336436	13	69,211,536	T	G	0.1753	0.0080	0.0014
rs11884297	2	106,013,248	T	C	0.4092	-0.0062	0.0011
rs73196184	13	67,808,183	A	G	0.1041	0.0100	0.0017
rs34620457	3	145,133,629	A	G	0.2479	0.0071	0.0012
rs11159622	10	104,025,716	T	C	0.0351	0.0166	0.0028
rs35577661	17	1,871,020	T	G	0.7369	-0.0069	0.0012
rs11307116	7	75,144,552	T	C	0.8775	0.0094	0.0016
rs79667528	6	98,223,662	T	C	0.9626	0.0162	0.0028
rs79109558	9	7,171,041	T	C	0.0237	0.0201	0.0034
rs7754982	6	113,203,779	A	G	0.1936	-0.0077	0.0013
rs72973714	18	74,076,020	T	C	0.0654	0.0125	0.0021
rs72816393	2	60,259,060	A	G	0.7346	0.0069	0.0012
rs76522376	4	7,291,339	T	C	0.7138	0.0068	0.0012
rs1190413	2	233,313,268	A	G	0.3306	0.0065	0.0011
rs62194510	2	238,895,507	A	G	0.3842	0.0063	0.0011
rs4894674	3	174,170,684	T	C	0.5381	0.0061	0.0010
rs18763658	1	175,088,774	T	C	0.23	0.0082	0.0014
rs62434865	6	100,171,058	A	T	0.2418	0.0071	0.0012

rs10030552	4	140,972,264	A	C	0.2588	-0.0070	0.0012
rs11020370	11	93,204,641	T	C	0.8226	-0.0080	0.0014
rs6693597	1	61,582,546	T	G	0.8645	0.0090	0.0015
rs12151015	19	48,101,797	C	G	0.8835	-0.0096	0.0016
rs6700683	1	171,478,706	A	T	0.4651	0.0062	0.0011
rs988875	22	33,939,558	A	G	0.6619	-0.0064	0.0011
rs7839607	8	93,199,456	A	G	0.6302	-0.0063	0.0011
rs12987269	2	173,921,991	A	G	0.7083	0.0067	0.0012
rs11467754	11	84,933,332	A	T	0.9784	-0.0210	0.0036
rs1003242	6	99,594,857	T	C	0.7675	0.0072	0.0012
rs34813542	13	59,486,309	T	C	0.9183	0.0113	0.0019
rs57761687	6	124,760,516	A	T	0.0628	0.0145	0.0025
rs11462313	1	51,141,894	T	C	0.0383	-0.0159	0.0027
rs72930017	18	50,521,426	T	C	0.1095	-0.0099	0.0017
rs11198999	1	29,270,194	T	C	0.0341	-0.0170	0.0029
rs4450738	3	65,595,897	A	C	0.2376	-0.0072	0.0012
rs2265364	10	96,145,246	T	C	0.5604	0.0061	0.0011
rs56756454	1	20,701,777	C	G	0.9948	-0.0448	0.0077
rs12514257	5	122,118,222	T	C	0.8001	0.0076	0.0013
rs28627593	4	31,368,363	A	C	0.2625	0.0069	0.0012
rs62367470	5	45,192,276	T	C	0.1768	0.0080	0.0014
rs72850884	6	37,964,338	T	C	0.9082	0.0106	0.0018
rs57463591	2	105,869,624	T	C	0.129	0.0091	0.0016
rs1447065	8	105,166,515	A	G	0.7151	-0.0067	0.0012
rs10837657	11	41,542,564	A	C	0.6607	-0.0064	0.0011
rs1382693	3	36,314,923	A	T	0.6055	-0.0062	0.0011
rs9817011	3	135,009,299	T	G	0.3866	0.0063	0.0011
rs45570933	20	62,591,460	A	G	0.0713	0.0119	0.0020
rs12378022	9	119,938,782	T	C	0.7734	0.0073	0.0013
rs56103251	4	140,681,684	T	C	0.0623	0.0126	0.0022
rs17638442	18	36,020,536	A	C	0.657	0.0064	0.0011
rs6963810	7	5,329,448	A	G	0.317	-0.0066	0.0011
rs4991300	13	91,666,188	A	G	0.4781	-0.0070	0.0012
rs921231	8	92,360,396	T	C	0.8497	0.0085	0.0015
rs6692379	1	99,221,575	A	G	0.1897	-0.0078	0.0013
rs4794105	17	48,237,895	T	C	0.4697	-0.0061	0.0011
rs11024359	11	17,669,791	A	G	0.6014	-0.0067	0.0012
rs11368135	6	64,956,081	T	C	0.7102	0.0076	0.0013
rs7350509	11	111,723,205	T	C	0.0953	0.0104	0.0018
rs79486828	5	153,340,264	T	C	0.0727	0.0117	0.0020
rs16903327	5	36,763,558	A	G	0.6078	-0.0062	0.0011
rs10044403	5	67,653,042	A	C	0.0495	-0.0142	0.0024
rs4615623	9	134,777,994	C	G	0.3395	-0.0064	0.0011
rs55017729	8	77,328,885	T	C	0.9972	-0.0609	0.0105
rs669952	2	4,563,477	A	G	0.1875	0.0078	0.0013
rs13791948	11	29,362,812	A	G	0.0162	0.0242	0.0042
rs9294420	6	89,774,167	A	C	0.5815	-0.0062	0.0011
rs13079474	3	68,343,973	A	G	0.4089	-0.0062	0.0011

rs4741426	9	14,747,412	A	G	0.8084	-0.0077	0.0013
rs35585468	10	31,133,581	T	C	0.884	-0.0095	0.0016
rs10877343	12	60,222,028	A	C	0.4825	-0.0061	0.0010
rs158839	5	163,071,831	A	C	0.612	-0.0062	0.0011
rs6728111	2	25,554,805	A	G	0.4671	0.0061	0.0010
rs10440955	7	11,282,369	T	C	0.4717	0.0061	0.0010
rs7985198	13	43,796,169	A	G	0.6285	-0.0063	0.0011
rs79532062	20	59,846,819	T	C	0.034	-0.0194	0.0033
rs35625885	15	96,957,969	A	G	0.8745	0.0092	0.0016
rs2431472	5	62,757,949	T	C	0.3476	0.0064	0.0011
rs9309192	2	50,937,515	T	C	0.1058	0.0099	0.0017
rs35761435	4	186,698,194	C	G	0.2891	0.0067	0.0012
rs10823262	10	70,625,646	C	G	0.2045	-0.0075	0.0013
rs62369456	5	63,855,663	C	G	0.8772	0.0093	0.0016
rs6773982	3	184,894,478	A	T	0.0596	-0.0128	0.0022
rs4688370	3	63,074,219	T	C	0.1539	0.0084	0.0015
rs62251261	3	44,148,253	A	T	0.7486	-0.0070	0.0012
rs56354797	7	68,681,873	A	G	0.4491	-0.0061	0.0011
rs9951150	18	52,821,124	A	G	0.5451	0.0061	0.0011
rs4812681	20	41,786,802	C	G	0.5782	0.0061	0.0011
rs2726818	4	183,147,436	A	G	0.0925	-0.0105	0.0018
rs4255791	16	28,274,804	A	G	0.3249	-0.0065	0.0011
rs8018636	14	29,742,199	T	C	0.8858	0.0096	0.0016
rs1999395	9	13,211,721	C	G	0.3014	-0.0066	0.0011
rs7873029	9	126,776,123	T	C	0.0583	-0.0129	0.0022
rs6783675	3	76,975,431	A	C	0.4126	-0.0062	0.0011
rs150953251	7	75,802,434	A	C	0.9858	-0.0259	0.0045
rs3106836	4	179,070,445	A	G	0.3861	-0.0062	0.0011
rs4447403	15	92,235,954	T	C	0.7445	0.0070	0.0012
rs77580062	8	42,311,083	T	C	0.0662	0.0123	0.0021
rs112512725	3	24,905,460	T	G	0.9326	-0.0121	0.0021
rs2118204	2	128,624,111	T	C	0.5891	-0.0062	0.0011
rs737787	22	30,072,759	T	C	0.8188	0.0079	0.0014
rs76618617	3	56,519,454	T	C	0.6716	-0.0065	0.0011
rs183782410	7	69,668,937	A	T	0.9574	-0.0151	0.0026
rs1871032	11	67,434,010	T	C	0.493	-0.0061	0.0011
rs2911653	2	220,921,082	A	C	0.6279	0.0063	0.0011
rs4972778	2	176,483,881	T	C	0.5709	-0.0061	0.0011
rs62532857	9	14,432,343	A	G	0.1482	-0.0085	0.0015
rs424387	12	124,610,849	C	G	0.5933	-0.0062	0.0011
rs72798055	5	111,061,104	A	G	0.0395	0.0156	0.0027
rs6439359	3	132,223,229	T	C	0.4698	-0.0061	0.0010
rs17480064	2	36,632,783	T	C	0.067	0.0122	0.0021
rs16855816	2	169,624,261	A	G	0.8963	0.0099	0.0017
rs115164411	2	28,304,915	T	C	0.976	0.0198	0.0034
rs12001662	9	120,406,009	T	C	0.435	0.0061	0.0011
rs34423561	11	1,552,276	A	G	0.009	0.0328	0.0057
rs61265411	2	80,591,784	C	G	0.9656	0.0167	0.0029

rs4559697	11	121,439,878	A	G	0.2926	-0.0067	0.0012
rs7959047	12	23,282,145	A	G	0.053	-0.0135	0.0023
rs11583404	1	145,640,157	T	C	0.6373	-0.0063	0.0011
rs10509353	10	76,840,388	A	C	0.9866	0.0272	0.0047
rs5011548	11	99,066,239	A	C	0.9105	-0.0106	0.0018
rs1561743	3	100,084,203	C	G	0.7591	0.0071	0.0012
rs28542042	15	74,213,357	T	C	0.2995	0.0066	0.0011
rs185068134	7	67,233,784	A	G	0.9671	0.0174	0.0030
rs7270807	20	19,631,980	T	C	0.9347	-0.0122	0.0021
rs62121816	19	39,164,464	T	C	0.4615	0.0061	0.0010
rs144241352	6	115,574,188	A	T	0.0341	-0.0169	0.0029
rs7235898	18	9,466,467	A	G	0.2777	0.0068	0.0012
rs75208931	7	125,999,345	T	C	0.8557	-0.0087	0.0015
rs16878083	4	11,100,788	A	G	0.7709	-0.0072	0.0012
rs62327424	4	142,623,499	A	G	0.0991	0.0101	0.0018
rs2634436	8	18,423,590	T	C	0.25	0.0070	0.0012
rs3112178	2	38,960,967	A	G	0.2514	-0.0070	0.0012
rs4519786	4	22,297,399	A	T	0.63	0.0063	0.0011
rs115792144	6	68,045,016	T	C	0.0324	0.0171	0.0030
rs9375477	6	127,204,623	A	G	0.8352	-0.0082	0.0014
rs10984798	9	122,778,574	C	G	0.1873	0.0078	0.0013
rs6809208	3	178,542,817	T	C	0.6633	0.0064	0.0011
rs17034606	4	105,473,010	A	G	0.1167	0.0094	0.0016
rs1725373	1	91,299,202	T	C	0.0988	0.0101	0.0018
rs3111049	5	160,842,709	A	C	0.1423	0.0086	0.0015
rs11787746	9	23,353,277	A	G	0.9577	-0.0152	0.0026
rs61274751	5	65,688,417	T	C	0.8821	0.0094	0.0016
rs12473986	2	173,682,948	T	C	0.2867	-0.0067	0.0012
rs28694048	18	73,105,302	A	G	0.3606	-0.0063	0.0011
rs12362273	11	110,022,157	A	C	0.761	-0.0071	0.0012
rs1759684	1	112,964,612	A	G	0.6512	-0.0063	0.0011
rs2138042	10	91,269,887	A	G	0.1622	-0.0082	0.0014
rs12266933	10	92,912,588	A	G	0.1102	-0.0097	0.0017
rs6595530	5	123,863,028	A	T	0.4426	0.0061	0.0011
rs12609965	19	13,917,866	A	C	0.245	0.0071	0.0012
rs118178868	17	19,141,885	A	G	0.9912	0.0338	0.0059
rs10974256	9	3,952,892	A	G	0.3448	-0.0064	0.0011
rs881562	16	7,760,884	T	G	0.5086	0.0061	0.0010
rs62086577	17	74,537,095	A	G	0.2153	0.0074	0.0013
rs2081201	16	66,042,790	T	C	0.6199	0.0062	0.0011
rs621996	1	70,583,889	A	G	0.6251	0.0062	0.0011
rs11898813	2	7,417,009	A	G	0.4688	-0.0060	0.0010
rs232423	21	22,755,223	A	G	0.3589	-0.0063	0.0011
rs7247619	19	56,216,940	A	G	0.1007	-0.0100	0.0017
rs13017699	2	30,376,345	A	T	0.5636	0.0061	0.0011
rs79454302	8	41,589,468	T	C	0.0446	-0.0147	0.0025
rs10026104	4	171,835,472	A	G	0.5889	-0.0061	0.0011
rs4822173	22	42,996,149	A	G	0.1368	-0.0088	0.0015

rs1057908	12	49,230,035	T	G	0.5263	0.0060	0.0010
rs6741676	2	181,618,654	A	G	0.6672	-0.0064	0.0011
rs6758504	2	55,453,099	T	C	0.5101	-0.0060	0.0010
rs28589407	22	27,565,662	T	C	0.9772	0.0202	0.0035
rs4855037	3	181,466,810	T	G	0.425	-0.0061	0.0011
rs1322131	9	14,017,185	A	C	0.4289	-0.0061	0.0011
rs117407988	11	30,438,344	A	G	0.0309	0.0174	0.0030
rs2819806	14	85,146,608	C	G	0.7497	0.0070	0.0012
rs11874177	18	70,614,375	T	G	0.2825	-0.0067	0.0012
rs4472912	11	39,449,092	T	C	0.6045	-0.0062	0.0011
rs11125653	2	56,997,660	A	G	0.137	0.0088	0.0015
rs17404787	7	8,551,958	A	T	0.6858	-0.0065	0.0011
rs62486443	8	12,624,999	A	G	0.3249	0.0065	0.0011
rs181433805	12	49,642,428	T	C	0.0667	0.0122	0.0021
rs9501224	6	32,792,910	T	C	0.2795	-0.0075	0.0013
rs17486657	1	23,007,175	T	C	0.3116	0.0065	0.0011
rs7015738	8	110,811,185	T	C	0.4207	-0.0061	0.0011
rs34959108	4	143,824,360	A	G	0.7663	-0.0071	0.0012
rs7070545	10	1,055,868	A	G	0.6319	-0.0062	0.0011
rs12549644	8	4,305,023	A	G	0.8469	-0.0084	0.0015
rs9920856	15	97,563,302	C	G	0.4675	-0.0060	0.0010
rs55969652	1	204,389,170	A	G	0.0849	0.0108	0.0019
rs2801804	14	42,569,023	C	G	0.7363	0.0079	0.0014
rs11604247	11	113,846,904	T	C	0.0894	-0.0105	0.0018
rs6504417	17	64,379,240	T	C	0.3446	-0.0063	0.0011
rs3731321	7	92,327,765	T	C	0.8386	0.0082	0.0014
rs7184582	16	7,244,175	A	C	0.5295	0.0060	0.0010
rs716357	4	174,062,064	A	G	0.3904	0.0062	0.0011
rs3738030	1	154,575,315	A	C	0.8756	0.0091	0.0016
rs1536155	1	2,408,661	A	G	0.3586	-0.0063	0.0011
rs9997032	4	94,386,763	A	G	0.6636	-0.0064	0.0011
rs997076	4	96,963,418	A	C	0.9091	-0.0105	0.0018
rs577710	12	24,534,491	A	G	0.6436	0.0063	0.0011
rs2194492	2	152,146,194	C	G	0.4831	-0.0060	0.0010
rs75587544	10	65,019,677	T	C	0.9814	0.0225	0.0039
rs10916738	1	20,579,409	T	C	0.2866	0.0070	0.0012
rs149630275	9	14,101,921	C	G	0.0176	-0.0232	0.0040
rs72681238	8	140,627,593	T	C	0.9329	-0.0120	0.0021
rs4706938	6	82,910,247	C	G	0.5549	0.0061	0.0011
rs2297674	1	32,163,950	C	G	0.6476	-0.0063	0.0011
rs6560155	9	73,444,040	T	C	0.7184	-0.0067	0.0012
rs11714574	3	58,380,465	A	T	0.5807	-0.0061	0.0011
rs12142143	1	236,854,973	T	C	0.4715	0.0060	0.0010
rs6868691	5	7,303,877	A	G	0.1441	-0.0086	0.0015
rs8067005	17	46,119,775	T	C	0.2116	-0.0074	0.0013
rs2289240	1	76,485,092	A	T	0.2934	0.0066	0.0011
rs78833645	11	131,313,602	T	C	0.0399	-0.0154	0.0027
rs12188092	5	167,499,048	T	C	0.1093	-0.0096	0.0017

rs9880138	3	135,468,347	T	C	0.9082	-0.0104	0.0018
rs138914098	9	1,737,111	A	G	0.0239	0.0198	0.0035
rs2355468	11	17,668,754	A	C	0.6124	-0.0068	0.0012
rs3913581	3	76,439,750	T	G	0.5925	-0.0061	0.0011
rs557675	11	65,566,719	T	G	0.5355	-0.0060	0.0010
rs149790470	22	30,072,419	C	G	0.9888	-0.0288	0.0050
rs73206183	13	69,297,662	T	C	0.9274	-0.0116	0.0020
rs1152505	14	56,824,215	A	C	0.4984	0.0060	0.0010
rs149389569	4	130,796,925	T	C	0.2704	0.0068	0.0012
rs11839514	13	93,938,706	A	G	0.6541	0.0063	0.0011
rs11232546	11	80,937,020	T	C	0.6582	0.0063	0.0011
rs12992717	2	156,497,235	C	G	0.3435	-0.0063	0.0011
rs6477558	9	109,875,953	C	G	0.731	0.0068	0.0012
rs2296956	9	134,404,784	C	G	0.3597	0.0063	0.0011
rs4858191	3	20,437,608	C	G	0.395	-0.0061	0.0011
rs6978797	7	34,909,303	T	C	0.6544	0.0063	0.0011
rs12793532	11	101,418,581	A	G	0.8727	-0.0090	0.0016
rs12470285	2	233,864,457	T	C	0.1597	-0.0082	0.0014
rs164700	5	106,908,733	A	C	0.1663	-0.0081	0.0014
rs80315050	1	198,027,455	T	C	0.0428	-0.0149	0.0026
rs79257925	3	174,051,148	T	C	0.226	0.0072	0.0013
rs61937385	12	116,702,506	T	C	0.8919	0.0097	0.0017
rs2146820	13	28,066,458	T	C	0.4393	0.0060	0.0011
rs408889	6	160,454,552	A	C	0.3465	-0.0063	0.0011
rs55657858	13	77,151,382	A	G	0.6443	-0.0063	0.0011
rs7806216	7	105,295,609	A	G	0.0722	0.0116	0.0020
rs11717211	3	196,681,938	A	G	0.4735	0.0060	0.0011
rs11972612	7	67,251,422	T	C	0.3234	-0.0064	0.0011
rs723219	10	4,160,551	T	C	0.9287	0.0117	0.0020
rs1815612	1	244,363,173	T	C	0.1529	0.0083	0.0015
rs4662909	2	130,057,509	A	G	0.6358	-0.0062	0.0011
rs16823799	2	183,698,691	A	G	0.0845	0.0108	0.0019
rs60433601	1	38,607,408	T	C	0.5996	-0.0061	0.0011
rs503558	1	110,100,913	T	C	0.3869	0.0062	0.0011
rs13275806	8	87,585,300	T	G	0.9093	0.0104	0.0018
rs12686734	9	120,297,383	A	T	0.408	0.0061	0.0011
rs4266641	8	74,383,660	T	C	0.5451	0.0060	0.0011
rs111646742	2	128,582,281	T	C	0.0378	-0.0157	0.0027
rs75890844	18	39,047,694	A	G	0.0604	-0.0126	0.0022
rs4885748	13	81,620,930	A	G	0.6762	0.0064	0.0011
rs60291849	2	5,399,482	A	T	0.617	-0.0062	0.0011
rs16844417	1	172,377,745	A	G	0.1166	-0.0093	0.0016
rs149352678	7	54,920,906	T	C	0.0979	0.0101	0.0018
rs9576167	13	37,649,395	T	C	0.5802	0.0061	0.0011
rs1406947	20	33,969,530	T	C	0.603	-0.0061	0.0011
rs4734229	8	93,451,686	T	G	0.3749	-0.0062	0.0011
rs11741009	5	56,751,453	T	C	0.2225	-0.0072	0.0013
rs78689892	8	48,157,788	T	C	0.9608	-0.0154	0.0027

rs31947	5	11,461,390	A	G	0.9164	-0.0108	0.0019
rs4549506	5	76,935,933	A	T	0.4957	0.0060	0.0010
rs111535462	12	53,923,641	T	C	0.0303	-0.0174	0.0031
rs146295822	2	186,458,492	C	G	0.9268	-0.0115	0.0020
rs10229695	7	67,108,519	A	G	0.2959	-0.0065	0.0011
rs74615093	16	69,122,043	A	G	0.0743	0.0114	0.0020
rs2989754	9	96,376,157	A	G	0.753	0.0069	0.0012
rs35564420	19	6,266,614	T	C	0.7645	-0.0070	0.0012
rs374827	1	200,874,327	T	C	0.4936	0.0060	0.0010
rs115246530	5	59,948,936	T	C	0.0091	-0.0319	0.0056
rs7774177	6	111,579,045	A	G	0.4476	-0.0060	0.0011
rs71639287	5	92,966,176	A	G	0.0289	0.0180	0.0032
rs12676895	8	763,540	A	G	0.7519	0.0069	0.0012
rs2233962	6	31,080,981	T	C	0.8173	0.0077	0.0014
rs149460422	8	93,318,113	A	C	0.0314	0.0177	0.0031
rs10737305	1	174,923,045	C	G	0.5002	-0.0060	0.0010
rs62305818	4	101,733,710	T	C	0.1121	-0.0095	0.0017
rs853345	6	14,166,582	A	G	0.2452	0.0070	0.0012
rs2190368	2	151,752,775	A	G	0.509	0.0060	0.0010
rs79838927	10	130,498,994	A	G	0.9057	0.0103	0.0018
rs4233974	2	59,295,043	T	C	0.621	-0.0062	0.0011
rs80049472	10	68,771,787	A	G	0.1076	-0.0096	0.0017
rs62482199	7	99,968,371	T	C	0.1141	0.0094	0.0016
rs13155750	5	88,167,641	A	G	0.7674	-0.0071	0.0012
rs115843100	6	31,499,713	C	G	0.0064	-0.0385	0.0067
rs149904061	6	127,993,398	T	C	0.0314	0.0172	0.0030
rs7098962	10	12,359,441	T	C	0.566	0.0061	0.0011
rs11174439	12	62,748,111	A	G	0.8544	0.0085	0.0015
rs62286094	4	6,502,170	T	C	0.1586	0.0082	0.0014
rs1158089	13	47,594,931	A	C	0.6658	0.0063	0.0011
rs34151737	4	171,037,039	T	C	0.9309	0.0118	0.0021
rs76085107	2	181,971,068	A	C	0.0477	-0.0140	0.0025
rs12538332	7	127,839,654	A	C	0.7239	0.0067	0.0012
rs4381456	13	107,684,072	T	C	0.6386	0.0062	0.0011
rs13413752	2	189,476,055	A	G	0.0299	-0.0176	0.0031
rs374459451	6	35,152,279	C	G	0.9697	0.0201	0.0035
rs55787231	11	88,142,087	T	C	0.2098	0.0073	0.0013
rs6475368	9	19,779,939	T	C	0.5509	-0.0060	0.0011
rs2903624	20	41,616,510	A	G	0.4824	-0.0060	0.0011
rs2399626	15	97,502,991	A	C	0.3449	-0.0063	0.0011
rs2142840	22	25,507,595	C	G	0.3145	-0.0064	0.0011
rs9496630	6	143,752,193	A	T	0.2892	-0.0066	0.0012
rs1986164	12	12,746,965	T	C	0.5896	-0.0063	0.0011
rs1955190	11	86,070,355	A	G	0.5074	-0.0060	0.0010
rs7777286	7	88,830,993	C	G	0.7065	0.0065	0.0011
rs76007632	7	2,174,242	A	G	0.0253	0.0191	0.0034
rs12790564	11	728,992	C	G	0.4221	0.0061	0.0011
rs4715244	6	51,676,802	T	G	0.222	0.0072	0.0013

rs28850959	8	90,669,018	A	G	0.8146	0.0077	0.0014
rs62180064	2	199,585,519	A	G	0.084	0.0109	0.0019
rs75144206	4	2,638,681	T	C	0.0749	-0.0114	0.0020
rs7002561	8	34,882,308	T	G	0.0877	0.0105	0.0019
rs6723810	2	199,282,283	A	G	0.0489	0.0140	0.0025
rs60841615	21	27,222,934	T	G	0.0959	0.0101	0.0018
rs145183241	9	14,244,689	A	G	0.9941	0.0394	0.0069
rs113728980	13	28,122,785	T	C	0.0673	0.0119	0.0021
rs1390072	4	67,683,423	C	G	0.7034	0.0065	0.0011
rs1023038	1	92,509,854	T	C	0.2618	-0.0068	0.0012
rs4975219	4	130,308,675	T	C	0.9502	0.0137	0.0024
rs35553446	6	56,823,015	C	G	0.2151	0.0072	0.0013
rs987579	14	71,513,480	T	C	0.9026	0.0100	0.0018
rs6756935	2	196,514,057	T	C	0.137	-0.0087	0.0015
rs802735	6	128,278,336	T	C	0.5512	0.0060	0.0011
rs2035891	8	19,634,395	C	G	0.406	0.0061	0.0011
rs11128633	3	13,135,300	T	C	0.4378	0.0060	0.0011
rs2210174	14	83,600,010	T	C	0.6201	0.0061	0.0011
rs10279132	7	70,186,936	T	G	0.691	-0.0064	0.0011
rs55883436	6	30,932,429	A	G	0.9754	0.0193	0.0034
rs78538536	1	90,860,795	A	G	0.0175	-0.0228	0.0040
rs2182918	13	110,032,857	T	G	0.4911	0.0059	0.0010
rs41482647	4	147,964,901	A	G	0.0541	0.0132	0.0023
rs71429411	13	42,811,025	T	C	0.1844	-0.0077	0.0014
rs4728096	7	127,879,348	T	C	0.5253	-0.0060	0.0010
rs7723508	5	117,016,937	T	C	0.3085	0.0064	0.0011
rs10192119	2	164,581,241	T	G	0.8315	0.0086	0.0015
rs9828648	3	94,258,938	A	T	0.7021	-0.0065	0.0011
rs7147581	14	101,028,840	T	C	0.5848	0.0060	0.0011
rs118127230	10	75,480,558	T	C	0.0241	0.0198	0.0035
rs7650118	3	21,806,293	T	C	0.3267	-0.0063	0.0011
rs6910380	6	108,725,990	C	G	0.4374	0.0060	0.0011
rs62234664	3	7,908,510	A	G	0.2814	-0.0066	0.0012
rs117349657	9	23,310,514	A	G	0.9783	-0.0208	0.0037
rs4373298	5	167,604,843	A	C	0.6308	0.0062	0.0011
rs67047765	5	154,008,082	A	G	0.0292	-0.0177	0.0031
rs2291228	5	169,288,732	A	G	0.5667	0.0060	0.0011
rs28391219	18	38,180,077	T	C	0.8459	0.0082	0.0015
rs113805220	6	35,566,133	A	G	0.026	-0.0187	0.0033
rs146958830	14	29,386,775	T	C	0.8624	-0.0087	0.0015
rs11926588	3	18,838,880	T	G	0.4504	-0.0060	0.0011
rs6755567	2	2,102,687	A	G	0.7541	0.0069	0.0012
rs17260422	18	22,536,721	C	G	0.9123	0.0105	0.0019
rs148434124	18	25,803,635	A	T	0.4876	-0.0059	0.0010
rs73340551	10	105,595,797	T	C	0.2653	0.0067	0.0012
rs75414516	10	87,150,327	A	G	0.0428	0.0149	0.0026
rs6044055	20	16,500,093	T	C	0.7077	-0.0065	0.0012
rs62083308	18	50,346,381	T	C	0.1745	-0.0078	0.0014

rs2319504	17	60,913,945	A	G	0.3547	0.0062	0.0011
rs3097862	5	155,551,741	A	G	0.4054	-0.0060	0.0011
rs946516	10	80,609,135	T	C	0.6528	0.0062	0.0011
rs2842621	6	37,114,293	C	G	0.3398	-0.0063	0.0011
rs10946469	6	21,771,687	A	C	0.6378	-0.0062	0.0011
rs7999579	13	113,879,357	T	C	0.7706	-0.0071	0.0013
rs11937610	4	178,538,461	A	G	0.6519	0.0062	0.0011
rs12649053	4	25,887,116	T	C	0.2252	-0.0071	0.0013
rs61768457	1	58,282,439	T	C	0.0251	-0.0190	0.0033
rs9639976	7	5,347,749	A	G	0.2636	0.0068	0.0012
rs28469453	4	184,636,782	C	G	0.3638	-0.0062	0.0011
rs55797612	19	46,393,195	A	G	0.8193	0.0077	0.0014
rs2253090	11	106,892,472	A	T	0.7655	-0.0070	0.0012
rs303752	18	21,074,255	A	G	0.4049	-0.0060	0.0011
rs799809	2	155,197,887	A	T	0.7048	-0.0065	0.0011
rs2268983	14	69,408,697	A	G	0.5171	-0.0059	0.0010
rs208626	16	22,927,887	A	G	0.5504	0.0060	0.0011
rs4270952	8	60,794,591	T	C	0.3702	0.0065	0.0011
rs12363110	11	105,550,936	T	C	0.3838	0.0061	0.0011
rs73625120	6	152,435,643	A	G	0.0389	0.0153	0.0027
rs150016765	2	215,304,073	A	G	0.9854	-0.0249	0.0044
rs557810	1	110,730,043	A	G	0.444	0.0060	0.0011
rs1156541	18	39,952,989	T	C	0.7711	0.0070	0.0012
rs2244066	6	30,118,658	A	G	0.1356	-0.0088	0.0016
rs135896	22	44,778,142	A	G	0.7832	0.0072	0.0013
rs34197935	2	184,393,185	T	C	0.2056	0.0073	0.0013
rs62236046	3	20,924,948	T	C	0.5422	-0.0059	0.0011
rs28461595	17	42,683,419	A	G	0.2374	-0.0070	0.0012
rs16967965	16	64,896,780	T	G	0.6827	-0.0064	0.0011
rs4130074	8	143,042,604	A	C	0.28	-0.0066	0.0012
rs2846281	11	118,901,166	C	G	0.2164	0.0072	0.0013
rs4705650	5	113,584,688	A	G	0.1788	-0.0077	0.0014
rs12206040	6	141,338,767	T	C	0.7188	-0.0071	0.0013
rs12632133	3	131,800,709	A	G	0.0742	0.0113	0.0020
rs712012	3	195,964,687	T	C	0.623	-0.0061	0.0011
rs11932176	4	17,279,482	T	G	0.4173	0.0061	0.0011
rs62095778	18	31,695,741	T	C	0.7623	0.0069	0.0012
rs76506182	2	155,856,120	A	G	0.051	0.0135	0.0024
rs1868502	3	54,427,242	T	C	0.2114	0.0072	0.0013
rs10889961	1	41,855,174	A	G	0.6881	0.0064	0.0011
rs7922955	10	104,990,877	A	G	0.9683	0.0170	0.0030
rs111660908	15	35,826,369	A	G	0.1446	0.0084	0.0015
rs1291860	10	11,111,443	T	C	0.9118	0.0105	0.0019
rs11155288	6	143,604,645	A	G	0.6268	-0.0061	0.0011
rs7653274	3	131,964,644	T	C	0.1949	-0.0075	0.0013
rs13255037	8	17,911,046	T	C	0.4895	0.0059	0.0010
rs210608	6	117,831,317	T	C	0.4419	0.0060	0.0011
rs12908446	15	62,822,105	T	C	0.79	0.0073	0.0013

rs17055673	8	26,524,421 T	C	0.1378	-0.0086	0.0015
rs1865880	3	161,515,597 T	C	0.3621	-0.0062	0.0011
rs7148554	14	23,785,951 T	C	0.22	-0.0071	0.0013
rs72685765	14	78,696,742 T	C	0.9417	-0.0126	0.0022
rs9844381	3	32,878,311 A	G	0.8138	0.0076	0.0013
rs72777309	10	9,949,401 A	C	0.3594	0.0062	0.0011
rs4899095	14	63,304,255 T	C	0.8937	-0.0096	0.0017
rs35533335	1	32,280,369 A	G	0.0157	-0.0242	0.0043
rs10815863	9	8,418,224 T	C	0.1302	-0.0101	0.0018
rs976518	7	21,581,723 A	G	0.446	0.0059	0.0011
rs4667878	2	167,015,812 A	T	0.1874	0.0076	0.0013
rs2050846	1	52,301,295 T	C	0.3387	-0.0063	0.0011
rs11635330	15	78,687,353 T	C	0.385	-0.0061	0.0011
rs62151048	2	61,423,515 A	G	0.0093	0.0316	0.0056
rs12816214	12	24,866,863 A	G	0.0404	-0.0150	0.0027
rs2208030	20	3,355,567 T	C	0.4824	0.0059	0.0010
rs13104877	4	116,007,803 A	G	0.4884	0.0059	0.0011
rs62078384	17	47,044,463 T	C	0.5212	-0.0059	0.0010
rs3759344	12	6,862,646 A	G	0.1002	-0.0098	0.0017
rs1285993	14	91,519,196 A	G	0.309	0.0070	0.0012
rs61194013	4	65,583,366 T	C	0.0731	0.0114	0.0020
rs6425308	1	174,941,650 T	G	0.0762	-0.0112	0.0020
rs4795938	17	32,908,064 T	C	0.1483	0.0083	0.0015
rs113329815	8	19,304,259 A	G	0.1748	0.0078	0.0014
rs2446077	3	103,577,723 A	T	0.2634	0.0067	0.0012
rs11043299	12	122,483,139 T	C	0.3723	-0.0063	0.0011
rs139241468	9	14,446,310 A	G	0.9771	0.0198	0.0035
rs2731034	12	45,422,236 A	G	0.5959	0.0060	0.0011
rs115330285	2	174,955,014 A	G	0.2011	0.0074	0.0013
rs2552505	18	38,738,888 T	C	0.6513	0.0062	0.0011
rs826217	3	24,269,789 T	C	0.6165	-0.0061	0.0011
rs1029278	11	123,421,402 A	G	0.333	0.0063	0.0011
rs79067665	2	61,216,277 T	C	0.0255	-0.0190	0.0034
rs10867245	9	81,351,608 C	G	0.546	0.0059	0.0011
rs4788115	16	28,998,111 A	T	0.1751	0.0078	0.0014
rs10867226	9	81,232,453 T	C	0.2594	0.0067	0.0012
rs12200809	6	143,971,584 A	G	0.2885	0.0065	0.0012
rs820008	2	174,123,399 A	G	0.2549	-0.0068	0.0012
rs1365355	7	135,978,595 A	G	0.5847	-0.0060	0.0011
rs11191355	10	104,392,497 T	C	0.8436	0.0081	0.0014
rs886765	7	40,683,852 T	C	0.0824	-0.0108	0.0019
rs116173575	1	181,801,435 T	C	0.0331	-0.0165	0.0029
rs9789718	2	221,361,301 A	C	0.6006	0.0060	0.0011
rs137926116	3	17,132,561 T	C	0.0184	-0.0221	0.0039
rs77248137	6	153,447,836 A	T	0.2006	0.0074	0.0013
rs58836328	8	117,687,616 A	T	0.0953	0.0100	0.0018
rs645628	13	98,962,246 A	G	0.7712	0.0070	0.0012
rs541969	11	126,459,999 T	C	0.5114	-0.0059	0.0010

rs529020	18	8,688,694	T	C	0.3172	-0.0064	0.0011
rs146851424	13	50,377,910	A	C	0.9774	-0.0199	0.0035
rs1435495	4	182,393,462	T	C	0.2507	-0.0068	0.0012
rs216232	12	286,331	A	G	0.6834	0.0064	0.0011
rs2216598	5	106,561,136	A	G	0.4554	0.0059	0.0011
rs73106136	20	43,491,477	T	G	0.0851	-0.0106	0.0019
rs12469557	2	13,653,562	T	C	0.6008	-0.0061	0.0011
rs7961224	12	15,322,668	T	C	0.8805	-0.0091	0.0016
rs7578633	2	113,978,650	T	C	0.3636	0.0061	0.0011
rs35482904	3	20,032,425	A	G	0.4152	0.0060	0.0011
rs117526918	14	73,899,307	T	C	0.0742	0.0113	0.0020
rs8122401	20	49,709,389	T	C	0.6517	-0.0062	0.0011
rs288604	16	62,672,612	A	G	0.8667	0.0087	0.0015
rs56162539	12	58,492,858	T	C	0.128	0.0089	0.0016
rs940052	2	45,981,142	A	G	0.4437	0.0060	0.0011
rs1547173	10	95,427,281	A	G	0.4798	-0.0059	0.0010
rs115819330	1	44,132,074	A	G	0.0462	-0.0140	0.0025
rs76370969	5	94,024,235	C	G	0.0125	0.0267	0.0048
rs3811640	2	112,776,979	A	C	0.2744	0.0066	0.0012
rs115940732	2	7,421,705	T	C	0.0172	0.0227	0.0040
rs55802376	10	102,961,734	A	G	0.1547	0.0082	0.0014
rs7556065	1	34,988,276	A	T	0.5129	0.0059	0.0010
rs13037516	20	55,469,661	T	C	0.4984	0.0059	0.0010
rs4635115	11	110,947,076	T	C	0.1742	-0.0078	0.0014
rs722256	16	6,760,721	C	G	0.7185	0.0065	0.0012
rs2468943	12	48,747,249	T	G	0.65	-0.0062	0.0011
rs4556782	16	54,315,752	T	C	0.3507	-0.0062	0.0011
rs3922612	15	27,682,851	T	C	0.0937	0.0101	0.0018
rs62506068	8	30,861,192	T	C	0.0278	-0.0182	0.0032
rs566707	17	74,845,023	A	G	0.0875	-0.0105	0.0019
rs1463555	4	164,049,448	A	T	0.8099	-0.0075	0.0013
rs10186870	2	6,712,550	T	G	0.6013	-0.0060	0.0011
rs16864081	2	5,870,941	T	C	0.2375	0.0069	0.0012
rs3110127	8	60,130,296	T	C	0.3315	-0.0062	0.0011
rs1536043	6	33,592,881	A	C	0.0412	-0.0148	0.0026
rs62381625	5	170,773,011	T	C	0.163	0.0080	0.0014
rs56408129	18	39,016,483	A	T	0.7836	-0.0083	0.0015
rs1860735	7	151,354,400	T	C	0.1098	-0.0094	0.0017
rs4904871	14	92,795,912	A	G	0.4502	-0.0059	0.0011
rs4073785	7	1,714,448	C	G	0.3383	0.0062	0.0011
rs2702565	4	15,078,484	T	C	0.6129	0.0060	0.0011
rs9981747	21	42,612,426	A	G	0.1574	0.0081	0.0014
rs12655342	5	96,229,542	T	G	0.8523	-0.0083	0.0015
rs17640869	18	36,099,500	A	G	0.4553	0.0059	0.0011
rs17292106	9	14,792,121	A	C	0.8794	-0.0090	0.0016
rs79587027	1	57,895,755	A	T	0.9377	0.0122	0.0022
rs12821447	12	12,891,227	T	C	0.0902	0.0103	0.0018
rs35759537	14	23,749,037	T	C	0.187	0.0076	0.0013

rs79303419	2	200,246,743	T	C	0.9458	-0.0131	0.0023
rs73027374	3	20,416,003	A	G	0.0885	0.0104	0.0019
rs62392801	5	178,062,267	T	C	0.6494	-0.0062	0.0011
rs12158831	22	46,450,616	T	G	0.0255	0.0189	0.0034
rs1483814	8	77,807,279	T	G	0.2	0.0073	0.0013
rs116670538	3	83,811,694	T	C	0.0773	0.0110	0.0020
rs648044	11	114,030,799	A	G	0.3825	0.0061	0.0011
rs60041956	19	2,684,281	T	C	0.6623	-0.0062	0.0011
rs66743759	17	75,884,545	T	G	0.8286	0.0078	0.0014
rs62573993	9	96,385,086	C	G	0.5092	-0.0059	0.0010
rs6877245	5	120,368,710	A	G	0.6653	0.0062	0.0011
rs143754669	13	58,318,099	T	C	0.9865	0.0262	0.0047
rs79397771	4	11,338,903	T	C	0.8081	0.0075	0.0013
rs1320654	11	115,788,427	A	C	0.395	0.0060	0.0011
rs11895312	2	159,198,688	T	C	0.0592	-0.0124	0.0022
rs117714272	20	18,117,964	A	G	0.09	-0.0103	0.0018
rs3012052	10	77,240,627	T	C	0.1227	-0.0089	0.0016
rs6008628	22	48,717,101	A	C	0.7795	-0.0071	0.0013
rs17697570	4	2,788,671	T	G	0.0142	-0.0255	0.0046
rs143252786	17	78,891,364	A	G	0.0195	0.0216	0.0039
rs280898	1	75,504,024	C	G	0.7303	-0.0066	0.0012
rs114800204	2	107,465,526	A	G	0.0543	-0.0130	0.0023
rs2738782	20	62,308,570	A	G	0.3888	0.0061	0.0011
rs13403620	2	52,249,997	T	G	0.5147	0.0059	0.0010
rs2432524	16	71,584,333	T	G	0.6424	-0.0061	0.0011
rs1165921	3	103,769,828	A	T	0.6478	0.0062	0.0011
rs11252031	10	3,731,269	A	G	0.3066	-0.0064	0.0011
rs3134101	8	110,091,044	T	C	0.4036	-0.0060	0.0011
rs294599	5	162,991,665	T	C	0.8726	-0.0088	0.0016
rs10787447	10	114,181,094	A	G	0.5034	0.0059	0.0010
rs4306690	2	5,815,111	T	C	0.5689	-0.0059	0.0011
rs11921658	3	114,183,612	T	C	0.8065	-0.0074	0.0013
rs55866250	1	153,643,966	A	C	0.0204	-0.0219	0.0039
rs143773936	9	23,204,293	T	C	0.9825	-0.0225	0.0040
rs17518213	5	133,793,417	A	G	0.0587	0.0125	0.0022
rs9567552	13	32,890,227	T	G	0.2516	-0.0068	0.0012
rs193234479	15	65,004,884	C	G	0.9987	-0.0855	0.0153
rs9291546	4	30,718,333	A	G	0.8495	-0.0082	0.0015
rs117430256	10	106,328,880	T	G	0.9807	-0.0220	0.0039
rs12517393	5	113,881,183	T	G	0.8232	0.0077	0.0014
rs3731930	2	96,966,661	C	G	0.3505	0.0061	0.0011
rs17664431	7	14,587,278	T	C	0.9444	0.0129	0.0023
rs140980867	5	91,437,139	A	G	0.9839	-0.0235	0.0042
rs112714914	15	51,691,279	A	G	0.9671	-0.0164	0.0029
rs13422459	2	173,093,533	T	C	0.2386	-0.0069	0.0012
rs148512052	3	155,505,327	A	G	0.034	-0.0162	0.0029
rs12996631	2	29,572,299	A	G	0.6043	-0.0060	0.0011
rs12457278	18	5,893,149	T	C	0.4809	-0.0059	0.0011

rs17505611	2	50,375,871 A	G	0.8645	-0.0086	0.0015
rs7564938	2	225,614,954 A	T	0.516	0.0059	0.0010
rs4812818	20	42,939,426 T	G	0.1947	-0.0074	0.0013
rs12431579	14	36,594,397 A	G	0.6389	-0.0061	0.0011
rs10276706	7	71,425,392 A	G	0.538	-0.0059	0.0011
rs11692364	2	142,809,287 A	G	0.4843	-0.0059	0.0010
rs6534591	4	127,825,185 A	G	0.3614	-0.0061	0.0011
rs306757	20	3,119,133 A	G	0.3604	0.0061	0.0011
rs7338804	13	38,660,394 A	G	0.1412	-0.0084	0.0015
rs1709065	6	157,136,631 A	G	0.5276	-0.0059	0.0011
rs151144406	12	133,741,285 T	C	0.9716	-0.0182	0.0033
rs57718472	18	52,628,757 A	T	0.7607	0.0069	0.0012
rs381356	7	133,862,118 A	G	0.6056	0.0060	0.0011
rs17486525	5	88,112,542 T	C	0.9496	0.0136	0.0024
rs2469226	15	77,246,990 A	T	0.221	0.0070	0.0013
rs116193437	10	53,527,105 A	C	0.0258	0.0190	0.0034
rs358644	5	143,906,230 A	G	0.5395	0.0059	0.0010
rs117196567	21	20,064,273 A	G	0.0441	-0.0142	0.0025
rs4479899	6	78,617,630 T	G	0.7606	-0.0068	0.0012
rs13030077	2	80,092,723 T	G	0.1787	0.0076	0.0014
rs11056726	12	16,082,586 A	T	0.2337	-0.0069	0.0012
rs16844724	2	160,918,368 A	G	0.0687	0.0115	0.0021
rs4934173	10	88,020,583 A	G	0.1962	-0.0074	0.0013
rs79299044	2	162,494,182 A	T	0.2117	-0.0072	0.0013
rs1592507	12	97,785,123 T	C	0.1106	0.0093	0.0017
rs10415488	19	5,246,717 T	C	0.6119	-0.0060	0.0011
rs116178502	2	62,524,523 A	G	0.0064	0.0382	0.0068
rs2456680	10	68,255,097 A	G	0.5135	0.0058	0.0010
rs62534173	9	1,861,094 T	C	0.0617	0.0125	0.0022
rs141896644	2	25,518,058 A	G	0.0379	0.0155	0.0028
rs62171204	2	155,100,956 A	G	0.9719	0.0177	0.0032
rs350911	19	4,099,187 T	C	0.2809	0.0065	0.0012
rs72981935	11	105,834,838 A	T	0.9259	-0.0111	0.0020
rs10793886	9	134,402,210 T	C	0.8553	0.0083	0.0015
rs523386	18	77,527,195 A	G	0.8106	0.0075	0.0013
rs2098526	2	162,845,276 A	G	0.0295	-0.0172	0.0031
rs28695882	22	49,232,869 A	G	0.5553	0.0059	0.0011
rs2520509	12	91,006,514 A	G	0.3345	0.0062	0.0011
rs7682230	4	67,912,848 A	C	0.3637	-0.0061	0.0011
rs17577073	11	99,152,801 A	C	0.5627	0.0059	0.0011
rs7986948	13	46,258,541 T	G	0.1261	0.0088	0.0016
rs79157526	1	97,882,937 T	C	0.9865	0.0255	0.0046
rs13120568	4	23,737,797 A	G	0.6952	0.0063	0.0011
rs41322948	2	205,355,529 A	G	0.357	0.0061	0.0011
rs62180506	2	217,662,788 A	G	0.8855	0.0092	0.0016
rs35069703	16	68,789,445 A	G	0.2826	0.0065	0.0012
rs74323354	21	47,843,163 A	G	0.9268	0.0112	0.0020
rs1974708	16	55,793,837 T	C	0.1829	-0.0075	0.0014

rs276105	3	81,433,234	T	G	0.4558	0.0059	0.0011
rs143084201	1	110,755,075	A	G	0.0157	-0.0240	0.0043
rs7312511	12	13,582,753	T	C	0.0986	-0.0098	0.0018
rs1341784	1	70,007,663	T	C	0.7129	-0.0064	0.0012
rs28687	2	59,946,868	T	C	0.8076	0.0074	0.0013
rs4677087	3	72,158,443	A	G	0.6377	-0.0061	0.0011
rs34659950	3	166,052,795	T	C	0.1485	0.0083	0.0015
rs9446446	6	72,408,163	A	G	0.5054	-0.0058	0.0010
rs34691764	1	72,641,334	T	G	0.9924	-0.0348	0.0063
rs143141266	4	149,594,840	T	C	0.0453	-0.0141	0.0025
rs13122350	4	18,311,265	A	G	0.412	-0.0059	0.0011
rs73059315	19	47,483,105	A	G	0.7238	-0.0065	0.0012
rs6133787	20	10,044,282	T	C	0.8426	-0.0080	0.0014
rs9888376	12	77,644,553	T	C	0.5713	-0.0059	0.0011
rs11644588	16	82,830,121	A	C	0.6482	-0.0061	0.0011
rs633051	1	96,060,707	A	G	0.2453	-0.0068	0.0012
rs13289150	9	86,164,428	A	G	0.6185	-0.0060	0.0011
rs11820132	11	43,603,300	T	C	0.568	-0.0059	0.0011
rs1334205	13	82,455,294	A	C	0.3324	0.0062	0.0011
rs35878043	7	100,848,223	T	G	0.1431	-0.0083	0.0015
rs9429225	1	44,486,239	T	C	0.8502	0.0082	0.0015
rs11190872	10	102,996,362	T	C	0.2302	-0.0069	0.0012
rs2078357	16	5,672,875	C	G	0.8852	-0.0092	0.0016
rs13063991	3	141,293,755	T	C	0.9256	-0.0112	0.0020
rs7778411	7	48,626,645	C	G	0.3502	0.0061	0.0011
rs11108920	12	97,639,811	A	G	0.9303	-0.0114	0.0021
rs56026882	5	72,401,140	A	G	0.1656	0.0078	0.0014
rs1008540	7	32,249,622	T	C	0.8486	0.0081	0.0015
rs7095475	10	106,207,933	T	C	0.8362	-0.0079	0.0014
rs17236381	5	66,800,946	A	C	0.1368	0.0085	0.0015
rs35938849	1	44,148,078	A	G	0.0468	-0.0138	0.0025
rs1850634	2	198,827,896	T	C	0.8057	-0.0073	0.0013
rs10811874	9	23,219,435	A	G	0.4387	-0.0059	0.0011
rs140518050	7	127,035,310	A	G	0.9915	-0.0329	0.0059
rs7676220	4	28,358,285	T	C	0.2859	0.0064	0.0012
rs11199316	10	85,343,296	T	C	0.2527	-0.0067	0.0012
rs11996703	8	1,009,093	T	C	0.6475	0.0061	0.0011
rs1479119	12	13,505,496	A	G	0.438	-0.0059	0.0011
rs9658610	12	53,493,363	T	C	0.0162	-0.0232	0.0042
rs13214394	6	102,883,639	A	T	0.7532	-0.0067	0.0012
rs2514455	11	114,790,114	T	C	0.342	0.0061	0.0011
rs113715924	6	72,719,682	A	G	0.0348	0.0159	0.0029
rs1969600	21	16,414,774	A	G	0.2309	0.0069	0.0012
rs78370568	1	91,589,662	A	C	0.0158	-0.0240	0.0043
rs117829446	16	30,632,657	T	C	0.8857	0.0092	0.0017
rs2289769	12	46,600,494	A	G	0.8604	-0.0084	0.0015
rs8062736	16	17,819,544	A	G	0.8308	0.0078	0.0014
rs12466690	2	73,463,423	T	G	0.9229	0.0109	0.0020

rs2706762	2	70,488,470	T	C	0.1478	0.0082	0.0015
rs7933521	11	13,303,929	T	C	0.8553	0.0083	0.0015
rs10891540	11	113,239,082	A	G	0.5329	0.0058	0.0010
rs12896898	14	74,804,634	C	G	0.6622	0.0062	0.0011
rs10123201	9	29,294,436	T	G	0.7395	0.0066	0.0012
rs75364438	8	93,271,795	A	C	0.8283	0.0077	0.0014
rs10173182	2	115,203,750	A	G	0.3439	-0.0061	0.0011
rs199778671	4	15,489,414	A	T	0.6448	0.0070	0.0013
rs16893451	5	24,501,278	A	T	0.1873	-0.0075	0.0013
rs5997412	22	29,276,747	A	G	0.3003	-0.0063	0.0011
rs2402019	7	115,598,764	T	G	0.8887	0.0093	0.0017
rs706890	6	112,038,003	T	C	0.9534	0.0151	0.0027
rs1939583	11	93,349,640	T	G	0.426	-0.0059	0.0011
rs77597368	11	133,817,890	A	G	0.0186	-0.0220	0.0040
rs2428373	17	18,911,386	T	C	0.1466	-0.0083	0.0015
rs7557745	2	107,531,452	T	C	0.0679	-0.0115	0.0021
rs6863786	5	63,055,505	A	T	0.4426	-0.0059	0.0011
rs141468874	10	106,842,553	A	G	0.9387	0.0121	0.0022
rs67338857	5	106,146,863	A	G	0.312	0.0063	0.0011
rs3115891	8	101,762,218	T	C	0.1455	-0.0082	0.0015
rs73152829	12	84,222,868	A	T	0.7115	0.0064	0.0012
rs57123286	5	156,757,381	A	G	0.8396	0.0079	0.0014
rs10208819	2	178,050,871	T	C	0.1082	-0.0093	0.0017
rs17184889	2	156,918,668	T	C	0.8847	0.0091	0.0016
rs34961029	16	83,206,551	T	G	0.262	-0.0066	0.0012
rs6867541	5	57,369,279	A	G	0.2129	-0.0071	0.0013
rs35032493	5	67,470,516	A	G	0.2393	0.0068	0.0012
rs729702	10	122,670,131	A	G	0.4127	-0.0059	0.0011
rs34454379	4	28,851,598	T	G	0.3218	-0.0062	0.0011
rs11564713	11	2,191,709	T	C	0.3693	-0.0060	0.0011
rs10182982	2	242,403,921	A	T	0.4438	-0.0058	0.0011
rs34353826	16	75,116,628	A	T	0.1726	0.0077	0.0014
rs1810649	10	4,238,934	T	C	0.2759	-0.0065	0.0012
rs443440	8	88,484,377	A	G	0.5114	-0.0058	0.0010
rs67691350	3	58,567,593	T	C	0.7854	0.0071	0.0013
rs116750901	1	151,574,295	A	G	0.0518	0.0131	0.0024
rs7851327	9	14,504,757	T	C	0.845	0.0080	0.0014
rs11934532	4	182,164,089	A	G	0.7358	-0.0066	0.0012
rs76167048	9	22,805,317	A	T	0.0875	0.0103	0.0019
rs1562706	2	142,782,362	C	G	0.5031	-0.0058	0.0010
rs77980141	6	16,433,942	C	G	0.9882	-0.0270	0.0049
rs118004210	15	47,678,873	A	G	0.0271	0.0178	0.0032
rs9492436	6	130,334,034	T	C	0.1027	-0.0095	0.0017
rs142636592	19	1,950,373	T	C	0.0125	0.0266	0.0048
rs10122669	9	116,555,771	A	G	0.4151	-0.0059	0.0011
rs4375600	15	61,597,124	A	G	0.0922	-0.0100	0.0018
rs78405460	14	27,223,614	A	G	0.9	-0.0097	0.0017
rs72834698	6	26,176,517	A	G	0.1422	0.0165	0.0030

rs11213482	11	110,435,636	A	G	0.8405	-0.0079	0.0014
rs12134665	1	159,388,286	T	G	0.7411	-0.0066	0.0012
rs113487918	2	211,210,619	T	C	0.1341	-0.0086	0.0015
rs527908	7	71,690,470	T	C	0.0467	0.0138	0.0025
rs7027019	9	84,191,267	T	C	0.6769	-0.0062	0.0011
rs9972455	15	73,688,686	A	G	0.3994	0.0059	0.0011
rs174434	1	241,047,690	T	C	0.5142	-0.0058	0.0010
rs9388304	6	124,468,820	A	G	0.6289	0.0060	0.0011
rs7328289	13	86,937,896	T	C	0.7837	-0.0070	0.0013
rs7556635	1	177,525,993	T	C	0.3216	-0.0062	0.0011
rs7452072	6	88,690,664	T	C	0.8855	0.0091	0.0016
rs10887592	10	88,143,472	A	G	0.2682	0.0065	0.0012
rs8120559	20	33,880,546	A	G	0.2188	0.0070	0.0013
rs17138794	7	18,262,273	A	T	0.7673	-0.0068	0.0012
rs2998055	10	32,469,487	A	G	0.3971	0.0059	0.0011
rs7439403	4	161,730,998	C	G	0.7477	-0.0067	0.0012
rs9540920	13	67,384,556	A	G	0.5713	0.0058	0.0011
rs11870612	17	81,012,604	A	G	0.1024	-0.0096	0.0017
rs3824992	11	133,786,590	A	G	0.4027	-0.0059	0.0011
rs117503301	7	5,589,225	C	G	0.9344	0.0118	0.0021
rs144131356	4	3,012,244	A	G	0.0436	0.0143	0.0026
rs7543481	1	204,930,143	T	C	0.3388	-0.0061	0.0011
rs17666879	17	33,069,820	A	T	0.2204	-0.0070	0.0013
rs4078331	16	65,169,213	A	T	0.7101	-0.0064	0.0012
rs964039	11	94,774,311	T	C	0.7203	0.0065	0.0012
rs144354885	12	123,688,283	A	T	0.0246	0.0191	0.0035
rs1511473	6	23,882,953	C	G	0.191	0.0073	0.0013
rs75756477	10	98,393,339	T	C	0.9557	0.0141	0.0025
rs9563130	13	53,601,969	A	T	0.6222	-0.0060	0.0011
rs9993133	4	149,016,541	T	C	0.8258	0.0076	0.0014
rs199011	6	23,461,894	A	C	0.2801	0.0064	0.0012
rs560542855	16	66,580,607	A	G	0.9967	0.0532	0.0097
rs117568184	22	21,934,008	T	C	0.0259	0.0184	0.0033
rs79827548	2	124,922,510	A	G	0.8736	0.0087	0.0016
rs11143270	9	74,964,392	T	G	0.1578	-0.0079	0.0014
rs226200	5	81,572,184	C	G	0.5697	0.0058	0.0011
rs1857508	1	205,327,083	C	G	0.386	0.0059	0.0011
rs12038928	1	88,701,323	A	G	0.6074	-0.0059	0.0011
rs2192025	7	122,287,948	A	G	0.7531	-0.0067	0.0012
rs12240387	10	2,664,712	A	G	0.3646	-0.0060	0.0011
rs9946776	18	49,503,635	A	C	0.3909	-0.0059	0.0011
rs502245	11	92,356,906	A	G	0.1489	0.0081	0.0015
rs2343522	16	6,163,660	T	G	0.1507	-0.0081	0.0015
rs2356612	16	49,676,386	T	C	0.2229	-0.0069	0.0013
rs62479497	7	135,247,070	T	C	0.7525	-0.0067	0.0012
rs3130182	6	33,023,579	A	G	0.2777	0.0065	0.0012
rs7780267	7	157,262,682	A	C	0.4122	-0.0059	0.0011
rs76289011	8	95,398,824	A	G	0.6348	-0.0069	0.0013

rs1075414	9	74,931,913	C	G	0.6051	-0.0059	0.0011
rs1384015	11	13,267,489	T	C	0.744	-0.0066	0.0012
rs9375711	6	99,297,389	A	T	0.3241	0.0062	0.0011
rs376464337	3	83,218,638	A	T	0.8152	0.0086	0.0016
rs7167754	15	93,404,651	A	T	0.2543	-0.0067	0.0012
rs111625890	22	39,304,509	T	C	0.7776	-0.0070	0.0013
rs961450	4	16,225,685	A	G	0.9391	0.0120	0.0022
rs56101188	19	586,745	T	C	0.9054	0.0103	0.0019
rs2336866	8	88,008,018	A	C	0.8443	-0.0080	0.0014
rs28622958	14	41,404,557	A	C	0.4649	-0.0058	0.0010
rs12891933	14	42,690,823	A	T	0.9604	0.0149	0.0027
rs3910664	2	182,515,795	T	C	0.6016	-0.0059	0.0011
rs114221185	1	208,978,857	A	G	0.1412	0.0083	0.0015
rs6460090	7	74,135,844	A	G	0.9352	-0.0179	0.0032
rs13277578	8	605,302	A	C	0.107	-0.0093	0.0017
rs7940164	11	113,451,765	T	G	0.6683	0.0061	0.0011
rs1227468	9	23,179,756	A	T	0.383	-0.0059	0.0011
rs75513050	13	55,698,865	T	C	0.0228	0.0193	0.0035
rs78019964	1	87,232,813	A	T	0.9265	-0.0110	0.0020
rs1858867	16	23,885,171	A	T	0.7331	-0.0065	0.0012
rs116068530	1	21,939,010	A	G	0.0225	0.0194	0.0035
rs73028346	11	133,723,384	T	G	0.0692	0.0114	0.0021
rs12706031	7	115,045,712	A	C	0.4553	0.0058	0.0011
rs115282909	2	180,964,681	A	G	0.1124	-0.0091	0.0017
rs3117045	1	22,363,507	A	G	0.3945	0.0059	0.0011
rs11990191	8	88,121,957	A	G	0.5275	0.0058	0.0010
rs7301232	12	19,131,515	A	T	0.1668	-0.0077	0.0014
rs2382458	9	14,201,012	C	G	0.1406	-0.0083	0.0015
rs1340661	6	54,023,382	T	G	0.2963	-0.0063	0.0011
rs6103038	20	41,406,142	C	G	0.5911	0.0059	0.0011
rs115003386	3	155,310,977	C	G	0.0507	0.0134	0.0024
rs12071309	1	210,585,013	T	C	0.6804	-0.0062	0.0011
rs10880142	12	42,143,207	T	C	0.1091	-0.0092	0.0017
rs559073	18	62,749,825	A	G	0.5304	0.0058	0.0010
rs72891853	2	185,304,341	T	C	0.4782	0.0058	0.0010
rs8068875	17	3,839,105	T	C	0.8491	0.0081	0.0015
rs41119	19	34,015,904	T	G	0.3577	0.0060	0.0011
rs11209351	1	69,259,253	A	C	0.4781	0.0058	0.0011
rs12313886	12	119,349,630	T	C	0.241	0.0067	0.0012
rs6973183	7	70,133,060	C	G	0.4393	0.0058	0.0011
rs73154924	7	68,644,538	T	C	0.8159	-0.0074	0.0014
rs140163394	10	106,915,038	A	G	0.0231	-0.0192	0.0035
rs9490810	6	98,630,465	T	G	0.0328	-0.0161	0.0029
rs10283803	9	38,019,145	T	C	0.5177	-0.0058	0.0010
rs35842568	5	101,165,982	C	G	0.0661	0.0116	0.0021
rs36035373	4	55,127,448	A	G	0.0146	-0.0244	0.0044
rs13361997	5	140,863,674	A	C	0.8446	0.0079	0.0014
rs116841729	9	96,356,664	T	C	0.0761	-0.0108	0.0020

rs57412999	14	33,273,779	A	G	0.9195	-0.0106	0.0019
rs16883014	5	53,843,335	T	C	0.6996	0.0063	0.0011
rs12152036	21	20,136,216	A	G	0.4906	0.0057	0.0010
rs62251572	3	60,904,762	A	G	0.2705	0.0065	0.0012
rs10821299	9	96,895,108	T	G	0.1635	-0.0078	0.0014
rs139054361	13	100,512,268	T	C	0.0094	-0.0306	0.0056
rs115420676	1	72,156,006	T	C	0.0258	-0.0201	0.0037
rs3748328	14	94,529,082	T	C	0.3293	0.0061	0.0011
rs11017001	10	131,683,760	A	C	0.3547	-0.0062	0.0011
rs73222573	4	10,265,107	A	T	0.9779	-0.0197	0.0036
rs2434396	6	13,455,437	A	G	0.5679	0.0058	0.0011
rs9767816	7	92,638,788	A	G	0.3475	0.0060	0.0011
rs251828	5	3,185,711	T	G	0.5982	0.0059	0.0011
rs117370965	16	67,659,250	A	C	0.0376	0.0154	0.0028
rs151272167	2	210,863,870	T	G	0.0416	0.0145	0.0026
rs185515820	8	87,743,838	A	T	0.9875	-0.0265	0.0048
rs35445341	7	140,046,037	A	G	0.4522	0.0058	0.0011
rs11064570	12	960,343	C	G	0.8328	0.0077	0.0014
rs77351259	6	166,563,484	A	C	0.8369	0.0078	0.0014
rs11649290	16	31,157,884	A	T	0.7226	0.0065	0.0012
rs9926032	16	83,117,481	T	C	0.5587	-0.0058	0.0011
rs6596534	5	102,882,317	A	G	0.3088	0.0062	0.0011
rs73400807	12	116,804,002	A	G	0.8655	0.0084	0.0015
rs3008032	6	166,041,635	A	G	0.2014	0.0072	0.0013
rs9383200	6	16,669,017	A	G	0.8505	0.0081	0.0015
rs6722777	2	161,731,185	T	C	0.0423	-0.0147	0.0027
rs55642578	15	66,147,299	A	G	0.1586	0.0079	0.0014
rs114179811	3	23,437,128	T	G	0.9888	-0.0278	0.0051
rs10756631	9	1,506,101	T	C	0.4899	-0.0058	0.0011
rs7183877	15	28,365,733	A	C	0.0794	0.0106	0.0019
rs80171880	3	114,884,690	A	G	0.0618	0.0119	0.0022
rs2951812	8	35,954,918	C	G	0.5113	-0.0058	0.0010
rs1992442	8	19,853,389	A	C	0.7314	-0.0065	0.0012
rs59483928	13	59,837,062	T	G	0.6642	0.0061	0.0011
rs4923705	15	36,293,605	A	G	0.7592	0.0067	0.0012
rs6080772	20	17,651,168	A	T	0.1754	0.0075	0.0014
rs847752	6	40,034,557	T	C	0.7354	-0.0065	0.0012
rs1388039	4	105,925,370	A	G	0.6657	-0.0061	0.0011
rs55709029	14	59,910,028	T	C	0.2488	-0.0067	0.0012
rs34980782	21	18,415,489	T	C	0.8894	0.0092	0.0017
rs78117611	12	203,339	C	G	0.9455	-0.0128	0.0023
rs6802558	3	69,281,337	C	G	0.2908	0.0063	0.0012
rs62300090	4	55,380,519	T	C	0.1032	0.0094	0.0017
rs58622306	19	36,403,062	A	C	0.9668	0.0162	0.0029
rs35481245	2	100,220,409	T	C	0.3586	-0.0060	0.0011
rs10813085	9	29,427,472	T	C	0.1947	0.0072	0.0013
rs75962830	15	64,109,599	A	G	0.0302	0.0172	0.0031
rs11679792	2	49,873,364	A	G	0.498	0.0057	0.0010

rs540471756	10	22,136,868	T	C	0.9941	0.0396	0.0072
rs12358273	10	94,408,857	T	G	0.0441	0.0141	0.0026
rs1461224	5	153,186,237	T	G	0.5229	0.0057	0.0010
rs79814671	17	28,505,483	A	G	0.9808	0.0215	0.0039
rs10193515	2	224,631,953	T	C	0.4853	0.0057	0.0010
rs73088467	12	23,079,207	T	C	0.1058	-0.0093	0.0017
rs77265491	17	50,843,663	A	C	0.9671	-0.0166	0.0030
rs10064877	5	91,968,603	T	C	0.1616	0.0078	0.0014
rs689545	2	34,978,940	A	T	0.825	0.0075	0.0014
rs72772094	10	11,073,891	T	C	0.08	0.0107	0.0019
rs62426270	6	126,854,838	A	G	0.0326	0.0163	0.0030
rs77830706	15	58,612,164	A	G	0.9252	0.0109	0.0020
rs9942452	6	37,490,013	T	C	0.1269	-0.0086	0.0016
rs10766450	11	18,039,056	C	G	0.4307	-0.0058	0.0011
rs35711462	5	50,847,577	A	G	0.4926	0.0057	0.0010
rs79766583	2	146,701,256	T	G	0.1272	0.0086	0.0016
rs58544493	5	173,486,119	T	C	0.094	-0.0098	0.0018
rs7303346	12	117,535,141	T	C	0.7052	0.0063	0.0012
rs13019103	2	221,970,171	A	G	0.5277	0.0057	0.0010
rs4351620	1	195,809,789	A	G	0.4121	0.0058	0.0011
rs66972935	4	16,103,365	A	T	0.248	-0.0066	0.0012
rs72620512	19	3,218,223	T	C	0.8785	0.0088	0.0016
rs10762188	10	69,876,930	A	G	0.3643	-0.0059	0.0011
rs1116100	20	43,668,473	A	G	0.845	-0.0079	0.0014
rs9349529	6	50,261,878	A	C	0.5106	0.0057	0.0010
rs3131726	1	58,192,123	A	C	0.2884	0.0064	0.0012
rs7669193	4	24,263,749	C	G	0.7886	0.0070	0.0013
rs9963991	18	4,733,644	T	C	0.6684	-0.0061	0.0011
rs6910662	6	22,637,458	A	T	0.4872	0.0057	0.0010
rs17721809	15	40,283,099	A	G	0.695	-0.0062	0.0011
rs35359530	12	27,169,098	T	C	0.959	-0.0145	0.0026
rs1585524	4	66,959,264	A	G	0.4681	0.0058	0.0011
rs12747808	1	60,348,346	T	C	0.8432	0.0079	0.0014
rs62246014	3	71,466,347	A	G	0.1209	0.0088	0.0016
rs544308127	9	7,195,140	T	C	0.0214	0.0228	0.0042
rs35372440	8	119,419,054	A	T	0.8085	0.0073	0.0013
rs116762274	5	176,266,874	C	G	0.019	0.0214	0.0039
rs12456386	18	27,667,312	A	G	0.9203	-0.0106	0.0019
rs13047733	21	33,419,639	A	G	0.6013	-0.0058	0.0011
rs2350901	14	60,948,128	A	G	0.1224	0.0087	0.0016
rs6992349	8	10,067,407	A	G	0.2318	-0.0068	0.0012
rs1137045	17	79,003,644	A	G	0.5309	0.0058	0.0011
rs62433165	7	11,950,964	A	G	0.0632	-0.0118	0.0022
rs28520307	4	63,234,936	A	T	0.2901	-0.0063	0.0012
rs114188957	3	52,148,623	T	G	0.9701	0.0170	0.0031
rs61770290	1	44,368,543	T	C	0.0511	0.0133	0.0024
rs1865178	4	130,373,727	A	G	0.7372	0.0065	0.0012
rs555491688	6	33,234,565	A	T	0.9934	-0.0373	0.0068

rs10809177	9	10,733,920	T	C	0.275	0.0064	0.0012
rs17520385	15	92,813,980	T	C	0.6719	0.0061	0.0011
rs4331712	3	159,893,661	A	C	0.6462	0.0060	0.0011
rs4409028	4	118,276,666	A	C	0.6444	0.0060	0.0011
rs115288136	6	112,992,912	A	G	0.7368	-0.0075	0.0014
rs9315985	13	21,482,172	T	C	0.1297	0.0085	0.0016
rs10842707	12	26,471,364	T	C	0.2239	0.0068	0.0013
rs1632822	9	118,225,902	C	G	0.382	0.0059	0.0011
rs11249937	8	9,534,392	T	C	0.7919	-0.0070	0.0013
rs10278520	7	132,067,168	C	G	0.3123	0.0062	0.0011
rs2147810	13	72,364,956	A	G	0.2907	0.0063	0.0012
rs10903706	10	2,271,259	T	C	0.6665	0.0061	0.0011
rs2795022	20	11,873,317	T	C	0.4042	0.0058	0.0011
rs77520009	13	66,979,595	T	C	0.0685	0.0113	0.0021
rs609777	3	107,343,402	A	G	0.702	-0.0062	0.0011
rs138334012	2	161,847,671	T	C	0.9928	-0.0345	0.0063
rs4082330	10	65,497,266	T	C	0.8174	-0.0074	0.0014
rs77566578	3	167,118,004	T	C	0.8737	0.0086	0.0016
rs12585625	13	80,012,196	T	G	0.3538	0.0060	0.0011

Notes: Clumping of GWAS results was performed as described in the Supplementary Section 2.2.6. SNPs are ordered by their genomic positions and the positions are reported for human genome build 37 (hg19). Standard errors (S.E.) and P values are derived from two-point LDSC intercept of 1.663. The analysis is based on 10,675,380 SNPs. The average χ^2 statistic across all 10,675,380 SNPs is 0.4042 (respectively) and λ_{GC} is 3.545 (unadjusted).

2 (P < 5×10⁻⁸) in the additive GWAS of *EduYears*

<i>P</i> value	Hetero <i>I</i> ²	Hetero <i>P</i>	<i>N</i>
2.89E-140	30	1.55E-02	2,990,475
2.62E-126	20.8	6.99E-02	3,035,553
2.58E-102	19.6	8.15E-02	3,037,499
3.15E-97	30.5	9.87E-03	3,036,955
8.08E-90	0	8.97E-01	3,036,702
4.88E-84	15.1	1.50E-01	3,024,163
1.32E-74	18.9	9.36E-02	3,036,158
4.34E-72	0	8.34E-01	3,022,450
5.23E-72	43.5	3.01E-04	3,007,427
1.77E-71	20.3	8.32E-02	3,007,760
1.14E-69	2.7	4.15E-01	3,035,786
9.28E-65	22	5.58E-02	3,037,499
2.21E-62	4.2	3.76E-01	3,037,499
3.47E-61	0	9.65E-01	3,037,499
4.03E-58	0	1.00E+00	2,272,216
4.44E-58	8.6	2.82E-01	3,019,216
7.17E-58	2.7	4.13E-01	3,037,499
3.65E-55	7.2	3.24E-01	2,999,477
3.98E-55	13.1	1.82E-01	3,037,499
4.03E-55	5.1	3.58E-01	3,035,242
2.76E-53	1.4	4.45E-01	3,033,958
6.58E-53	32.1	6.72E-03	3,000,071
9.07E-51	2.7	4.14E-01	3,037,499
1.70E-50	4.4	3.76E-01	3,027,053
1.29E-49	0	6.55E-01	3,037,499
1.42E-49	0	8.55E-01	3,036,702
1.73E-49	0	5.29E-01	3,037,499
3.31E-49	13.3	1.78E-01	3,037,499
1.95E-48	0	5.06E-01	3,034,989
2.51E-48	11.4	2.17E-01	3,035,066
9.67E-48	0	6.87E-01	3,036,158
2.09E-46	0	4.94E-01	3,035,066
6.97E-46	8.8	2.77E-01	3,031,382
1.27E-45	22.2	5.43E-02	3,037,499
1.54E-45	0	7.18E-01	3,033,316
1.63E-45	21.2	7.07E-02	3,015,311
1.97E-45	0	8.83E-01	2,952,067
2.36E-45	0.8	4.58E-01	3,024,960
3.44E-45	0	5.13E-01	3,035,786
7.31E-45	1	4.53E-01	3,035,786
1.08E-44	0	5.48E-01	3,024,960
1.66E-44	17.1	1.16E-01	3,037,499
1.36E-43	5.2	3.54E-01	3,037,499
1.76E-43	5.1	3.56E-01	3,036,702
6.54E-43	5.5	3.47E-01	3,024,163

2.29E-42	2.4	4.21E-01	3,035,242
2.37E-42	0	7.14E-01	3,036,702
2.39E-42	29.7	1.21E-02	3,035,066
2.44E-42	0	4.87E-01	3,006,838
1.34E-41	0	6.75E-01	2,985,984
1.50E-41	0	5.77E-01	3,037,499
1.86E-41	0	4.98E-01	3,036,702
2.08E-41	10.9	2.27E-01	3,036,702
4.52E-41	20.5	7.11E-02	3,037,499
1.12E-40	21.4	6.97E-02	3,018,322
1.78E-40	20.6	7.47E-02	3,022,450
2.16E-40	0	9.81E-01	3,037,499
2.36E-40	0	9.51E-01	3,037,499
5.72E-40	0	5.88E-01	3,022,450
8.27E-40	18	1.02E-01	3,037,499
1.05E-39	13	1.85E-01	3,037,499
1.29E-39	0	7.02E-01	3,015,850
1.52E-39	6.3	3.29E-01	3,036,702
7.74E-39	16	1.32E-01	3,037,499
2.70E-38	6.4	3.28E-01	3,030,170
3.67E-38	2.5	4.19E-01	3,036,702
3.81E-38	29.9	1.21E-02	3,034,899
9.16E-38	0	7.15E-01	3,037,499
1.30E-37	24.8	3.50E-02	3,036,955
3.17E-37	20.4	7.49E-02	3,023,247
1.44E-36	0	7.86E-01	3,035,786
1.64E-36	9.7	2.51E-01	3,037,499
2.05E-36	26.8	2.41E-02	3,034,989
4.38E-36	0	6.29E-01	3,000,868
4.61E-36	22.5	5.20E-02	3,037,499
4.75E-36	31.7	6.86E-03	3,037,499
5.21E-36	0	7.84E-01	3,036,702
6.68E-36	16	1.35E-01	3,022,527
1.07E-35	9.7	2.52E-01	3,037,499
1.26E-35	7.7	2.96E-01	3,037,499
1.39E-35	7.8	2.95E-01	3,035,786
1.69E-35	17.7	1.09E-01	3,034,989
1.82E-35	8.9	2.71E-01	3,035,786
2.40E-35	24.6	3.54E-02	3,037,499
3.24E-35	0	8.50E-01	3,037,499
3.35E-35	20.7	6.91E-02	3,037,499
3.44E-35	8.7	2.77E-01	3,023,247
6.56E-35	14.1	1.70E-01	3,030,656
6.76E-35	0	6.75E-01	3,036,702
7.81E-35	8.7	2.93E-01	2,991,835
1.20E-34	45	3.94E-05	3,036,702
2.49E-34	1.1	4.51E-01	3,035,242
2.60E-34	12.9	1.87E-01	3,035,786

3.50E-34	15.4	1.43E-01	3,035,671
3.97E-34	0	5.20E-01	3,034,091
5.63E-34	0	7.71E-01	3,009,771
5.95E-34	20.1	7.56E-02	3,037,499
7.69E-34	0	6.79E-01	3,034,091
9.09E-34	5.2	3.54E-01	3,037,499
1.57E-33	0	9.34E-01	3,036,670
3.15E-33	0	6.03E-01	3,015,195
4.73E-33	26.1	4.33E-02	2,520,096
7.59E-33	0	8.42E-01	3,037,499
1.00E-32	24.1	3.97E-02	3,035,880
1.98E-32	11.6	2.17E-01	3,018,473
2.00E-32	0.3	4.71E-01	3,037,499
6.34E-32	0	6.95E-01	3,037,499
6.96E-32	12.6	1.94E-01	3,035,786
9.79E-32	0	7.19E-01	3,036,955
1.01E-31	34.1	3.41E-03	3,037,499
1.08E-31	19.6	8.20E-02	3,037,499
1.65E-31	0.8	4.60E-01	3,037,499
2.45E-31	6.3	3.29E-01	3,037,499
2.61E-31	0	6.73E-01	3,037,499
3.53E-31	18.9	9.01E-02	3,037,499
5.98E-31	0	5.12E-01	2,841,971
7.90E-31	0	5.71E-01	3,037,499
8.61E-31	0	7.84E-01	3,030,086
1.13E-30	0	8.89E-01	3,035,786
1.25E-30	0	9.71E-01	3,037,499
1.56E-30	5.4	3.49E-01	3,036,702
2.73E-30	0	7.33E-01	3,030,783
2.82E-30	15.5	1.45E-01	3,031,734
4.04E-30	17	1.27E-01	3,017,369
4.75E-30	7.7	2.96E-01	3,037,499
4.81E-30	18.5	9.59E-02	3,037,499
7.13E-30	0	5.95E-01	3,030,342
9.25E-30	14.9	1.55E-01	3,023,442
1.01E-29	18.3	9.82E-02	3,037,499
1.11E-29	6.8	3.33E-01	2,955,906
1.22E-29	5.8	3.52E-01	2,989,918
1.58E-29	0	5.39E-01	3,036,702
2.24E-29	0.3	4.69E-01	3,031,603
2.42E-29	37.5	1.44E-03	3,020,017
2.63E-29	26.5	2.52E-02	3,036,702
2.80E-29	0	1.00E+00	2,272,216
3.53E-29	9.9	2.47E-01	3,037,499
4.42E-29	24.9	3.71E-02	3,029,299
4.70E-29	0	5.13E-01	3,021,552
8.26E-29	0	6.98E-01	3,034,989
9.53E-29	0	6.98E-01	3,000,071

1.02E-28	0	7.46E-01	3,036,702
1.06E-28	16	1.37E-01	3,031,275
1.29E-28	0	4.96E-01	3,036,702
2.04E-28	28.6	1.76E-02	2,986,072
2.33E-28	0	7.69E-01	3,035,786
2.44E-28	0	7.18E-01	3,037,499
3.01E-28	0	6.46E-01	3,036,702
3.23E-28	4.8	3.63E-01	3,035,553
3.33E-28	0	8.91E-01	3,036,702
5.19E-28	0	6.67E-01	3,001,375
5.27E-28	30.9	1.16E-02	3,004,923
5.42E-28	0	4.97E-01	3,037,499
5.97E-28	21.3	6.84E-02	3,032,440
6.79E-28	23.6	4.39E-02	3,036,702
7.71E-28	19.7	8.19E-02	3,036,955
8.43E-28	0	8.09E-01	3,035,786
9.70E-28	0	9.25E-01	3,037,499
1.58E-27	0	6.02E-01	3,037,499
2.64E-27	11.2	2.21E-01	3,035,066
3.42E-27	0	8.74E-01	3,034,989
4.12E-27	29.9	1.12E-02	3,037,499
4.56E-27	0	4.78E-01	3,022,080
4.91E-27	0	7.71E-01	3,036,702
5.98E-27	6.5	3.23E-01	3,037,499
6.06E-27	0	5.07E-01	3,023,247
6.07E-27	10.5	2.35E-01	2,397,618
6.11E-27	0	4.95E-01	3,014,535
8.46E-27	0	5.49E-01	3,037,499
1.13E-26	0	6.72E-01	3,037,499
1.17E-26	3.9	3.84E-01	3,037,499
1.20E-26	20.4	7.21E-02	3,037,499
1.71E-26	11.8	2.58E-01	2,962,303
1.89E-26	0	4.84E-01	3,035,066
1.98E-26	0	7.24E-01	3,037,499
2.40E-26	10.6	2.34E-01	3,036,955
2.81E-26	0	5.59E-01	3,037,499
3.27E-26	0	9.71E-01	3,035,786
4.70E-26	0	6.03E-01	3,021,730
5.43E-26	0	6.43E-01	3,028,373
5.62E-26	19.6	8.34E-02	3,036,702
5.90E-26	6.8	3.16E-01	3,037,499
6.83E-26	10	2.48E-01	3,033,433
7.08E-26	0	8.66E-01	3,036,702
7.10E-26	13.6	1.74E-01	3,035,786
7.58E-26	0	6.18E-01	3,037,499
7.66E-26	0	7.72E-01	3,037,499
7.71E-26	1.5	4.43E-01	3,036,158
8.08E-26	24.9	3.45E-02	3,036,702

8.72E-26	18.7	9.47E-02	3,035,786
9.13E-26	21.7	6.00E-02	3,036,955
9.56E-26	0	5.91E-01	3,036,702
1.13E-25	0	6.81E-01	3,036,702
1.15E-25	0	1.00E+00	2,272,216
1.40E-25	3.6	3.92E-01	3,037,499
2.16E-25	10.5	2.35E-01	3,037,499
2.83E-25	17.2	1.14E-01	3,037,499
3.43E-25	0	7.94E-01	3,021,983
4.04E-25	0	6.38E-01	3,034,756
4.25E-25	0	9.62E-01	3,037,499
4.41E-25	0	5.05E-01	3,033,840
4.76E-25	0.2	4.73E-01	3,037,499
5.57E-25	0	5.63E-01	3,037,499
8.34E-25	0	8.73E-01	3,036,702
9.50E-25	13.3	1.83E-01	2,999,527
9.74E-25	5.2	3.55E-01	3,037,499
9.93E-25	0	9.16E-01	3,036,702
1.09E-24	0	9.92E-01	3,037,499
1.11E-24	8.2	2.87E-01	3,023,247
1.28E-24	0	7.99E-01	3,037,499
1.37E-24	1	4.53E-01	3,035,242
1.39E-24	0	5.10E-01	2,287,336
1.49E-24	24.5	3.58E-02	3,037,499
2.22E-24	28.2	1.86E-02	2,996,722
2.36E-24	9.1	2.65E-01	3,035,786
2.44E-24	0	5.17E-01	3,037,499
2.85E-24	13.9	1.70E-01	3,036,955
3.02E-24	0	7.25E-01	3,031,533
3.13E-24	0	5.20E-01	3,022,450
3.26E-24	11.8	2.10E-01	3,036,702
3.56E-24	41.3	4.18E-04	3,013,222
4.04E-24	22.9	6.68E-02	2,995,138
4.15E-24	3.8	3.87E-01	3,037,499
4.16E-24	10	2.45E-01	2,315,814
4.47E-24	0	5.53E-01	3,030,610
5.18E-24	0	9.96E-01	3,037,499
5.84E-24	0	6.40E-01	3,036,702
7.06E-24	0	8.29E-01	3,035,786
7.16E-24	13.8	1.69E-01	3,037,499
7.48E-24	0	6.78E-01	3,005,978
8.10E-24	0	8.13E-01	3,031,738
8.53E-24	0	5.32E-01	3,036,955
9.31E-24	2.3	4.24E-01	3,021,319
9.36E-24	0	5.15E-01	3,035,786
1.01E-23	17.8	1.10E-01	3,032,809
1.10E-23	9.4	2.57E-01	3,037,499
1.26E-23	0	7.15E-01	3,037,499

1.35E-23	39	5.97E-04	3,037,499
1.51E-23	0	5.67E-01	3,036,702
1.55E-23	2	4.29E-01	3,037,499
1.65E-23	0	8.56E-01	3,036,702
1.66E-23	0	5.20E-01	3,035,880
1.70E-23	0	7.29E-01	3,014,503
1.84E-23	21.3	6.34E-02	3,037,499
1.97E-23	0	9.50E-01	3,033,353
1.99E-23	0.2	4.72E-01	3,022,450
2.08E-23	0	4.81E-01	3,036,585
2.08E-23	5.9	3.36E-01	3,037,499
2.08E-23	5.7	3.43E-01	3,036,702
2.21E-23	14.6	1.57E-01	3,036,702
2.25E-23	8.6	2.78E-01	3,034,091
2.35E-23	22.3	7.00E-02	2,997,716
2.55E-23	26.7	2.38E-02	3,036,702
2.73E-23	15.8	1.36E-01	3,035,786
2.90E-23	12.1	2.07E-01	3,024,832
2.96E-23	0	6.67E-01	3,037,499
3.05E-23	30.8	8.69E-03	3,037,499
3.20E-23	0	8.06E-01	3,036,955
3.23E-23	0	5.29E-01	3,037,499
3.49E-23	0	8.00E-01	3,036,955
3.50E-23	0	5.00E-01	3,037,499
3.52E-23	7.8	2.95E-01	3,036,702
3.71E-23	2.3	4.26E-01	3,018,539
4.80E-23	20.1	7.59E-02	3,037,499
5.14E-23	0	8.75E-01	2,975,847
5.67E-23	5.2	3.54E-01	3,036,955
6.03E-23	0	5.32E-01	3,035,786
6.03E-23	29.7	1.42E-02	3,021,536
6.04E-23	17.9	1.04E-01	3,036,702
6.48E-23	15.3	1.46E-01	2,998,922
6.57E-23	3	4.07E-01	3,035,786
6.83E-23	7	3.12E-01	3,035,786
6.87E-23	0	6.37E-01	3,035,786
7.84E-23	32.3	5.84E-03	3,037,499
8.59E-23	15.8	1.37E-01	3,036,702
8.99E-23	24.2	3.78E-02	3,037,499
9.16E-23	14.7	1.53E-01	3,037,499
9.30E-23	9.3	2.66E-01	3,024,529
1.04E-22	0	8.93E-01	3,037,499
1.05E-22	20.2	7.70E-02	3,034,989
1.05E-22	23.8	4.23E-02	3,035,786
1.13E-22	0	5.22E-01	3,026,498
1.18E-22	1.2	4.50E-01	3,022,703
1.20E-22	10.5	2.35E-01	3,037,499
1.33E-22	3.5	3.95E-01	3,037,499

1.68E-22	0	8.94E-01	3,037,499
1.94E-22	0	7.88E-01	3,033,032
2.05E-22	0	9.89E-01	3,037,499
2.12E-22	15.9	1.34E-01	3,037,499
2.22E-22	4.5	3.70E-01	3,037,499
2.23E-22	5.4	3.50E-01	3,037,499
2.54E-22	4.1	3.80E-01	3,037,499
2.93E-22	30.3	1.00E-02	3,037,499
2.97E-22	0	7.87E-01	3,037,499
3.46E-22	0	9.21E-01	3,037,499
3.66E-22	27.3	2.02E-02	3,037,499
3.86E-22	9.4	2.68E-01	3,026,442
4.56E-22	14.6	1.58E-01	3,033,966
4.75E-22	17.6	1.08E-01	3,037,499
4.86E-22	0	4.78E-01	2,997,460
5.30E-22	18.6	1.00E-01	3,034,075
5.48E-22	7.1	3.12E-01	3,036,158
5.63E-22	0	6.19E-01	3,035,786
5.78E-22	3.2	4.01E-01	3,036,702
5.97E-22	5	3.60E-01	3,000,868
6.09E-22	19.2	8.58E-02	3,037,499
6.37E-22	7.9	2.92E-01	3,037,499
6.42E-22	0	5.72E-01	3,019,668
6.62E-22	0	5.34E-01	3,024,960
7.94E-22	6.6	3.22E-01	3,035,786
8.01E-22	15.2	1.50E-01	3,023,265
8.30E-22	7.7	2.97E-01	3,037,499
8.74E-22	32.5	7.37E-03	2,984,009
9.86E-22	9.4	2.59E-01	3,036,955
1.00E-21	27.8	1.81E-02	3,037,499
1.05E-21	7.6	2.99E-01	3,037,499
1.18E-21	0	5.19E-01	3,035,066
1.18E-21	6.1	3.32E-01	3,037,499
1.18E-21	14.3	1.66E-01	3,022,450
1.20E-21	25.9	2.74E-02	3,037,499
1.20E-21	26.9	2.29E-02	3,036,702
1.23E-21	2.2	4.26E-01	3,035,786
1.27E-21	0	7.84E-01	3,034,091
1.37E-21	4.9	3.62E-01	3,036,702
1.66E-21	22.4	5.21E-02	3,037,499
1.74E-21	22.8	4.88E-02	3,037,499
1.90E-21	6.7	3.22E-01	3,015,729
1.93E-21	16.4	1.30E-01	3,035,007
2.33E-21	0	6.63E-01	3,036,702
2.46E-21	5.6	3.45E-01	3,036,702
2.47E-21	11	2.23E-01	3,037,499
2.49E-21	10.4	2.37E-01	3,024,960
2.51E-21	0	9.98E-01	3,037,499

2.53E-21	0	7.56E-01	2,962,253
2.70E-21	9.7	2.55E-01	3,024,133
2.70E-21	0	9.68E-01	3,037,499
2.77E-21	0	7.09E-01	3,037,499
2.88E-21	0	6.21E-01	3,037,499
3.09E-21	0	9.18E-01	3,001,141
3.19E-21	23.5	4.41E-02	3,035,786
3.37E-21	0	5.23E-01	2,996,607
3.75E-21	4.4	3.73E-01	3,035,786
3.94E-21	0	7.19E-01	3,037,499
4.12E-21	4.8	3.64E-01	3,033,353
4.65E-21	13.1	1.85E-01	3,036,585
4.70E-21	15.4	1.44E-01	3,024,960
4.85E-21	0	7.03E-01	3,034,091
4.99E-21	30.5	9.82E-03	3,000,868
5.01E-21	0	6.97E-01	3,000,868
5.44E-21	0	7.95E-01	3,037,499
5.54E-21	0.5	4.67E-01	3,037,499
6.09E-21	0	9.73E-01	3,035,786
6.20E-21	19.6	8.32E-02	3,029,493
6.47E-21	0	7.97E-01	3,037,499
6.78E-21	0	7.44E-01	3,032,611
6.84E-21	0	5.01E-01	3,021,983
6.90E-21	12.6	1.93E-01	3,035,786
7.14E-21	24.5	3.72E-02	3,035,066
7.55E-21	0	7.96E-01	3,037,499
7.84E-21	0	7.83E-01	3,035,786
7.89E-21	0	7.65E-01	3,037,499
8.13E-21	0	6.29E-01	3,020,755
9.10E-21	0	5.59E-01	3,037,499
9.70E-21	0	6.23E-01	3,032,883
1.00E-20	24.9	3.46E-02	3,035,066
1.07E-20	0	7.91E-01	3,036,702
1.16E-20	28.9	1.48E-02	3,036,955
1.23E-20	18.3	9.97E-02	3,034,230
1.31E-20	12.6	1.96E-01	3,023,247
1.32E-20	0	5.67E-01	3,030,007
1.38E-20	10	2.50E-01	3,033,316
1.41E-20	12	2.06E-01	3,035,786
1.41E-20	14.2	1.65E-01	3,036,702
1.45E-20	0	6.63E-01	3,037,499
1.55E-20	3.4	3.98E-01	3,035,786
1.57E-20	15.2	1.47E-01	3,000,868
1.61E-20	0	7.05E-01	3,037,499
1.64E-20	21.4	6.26E-02	3,035,786
1.86E-20	0	5.11E-01	3,037,499
1.89E-20	16.7	1.24E-01	3,033,353
1.90E-20	0	7.15E-01	3,037,499

1.94E-20	8	2.90E-01	3,035,786
1.96E-20	0	7.12E-01	3,018,322
1.96E-20	0	8.00E-01	3,036,955
1.97E-20	0	9.89E-01	3,036,702
2.03E-20	23.7	4.15E-02	3,037,499
2.03E-20	16.8	1.44E-01	2,997,948
2.05E-20	1.9	4.34E-01	3,016,253
2.14E-20	0	7.81E-01	3,037,499
2.20E-20	12.8	1.92E-01	3,035,242
2.42E-20	0	4.93E-01	3,032,519
2.85E-20	0	9.23E-01	3,037,499
2.94E-20	0	5.54E-01	3,000,071
3.63E-20	2.5	4.19E-01	3,033,316
3.81E-20	7.7	2.98E-01	3,034,269
4.04E-20	0	5.74E-01	3,037,499
4.14E-20	0	8.91E-01	3,036,955
4.45E-20	14	1.67E-01	3,037,499
4.49E-20	0	7.39E-01	2,954,554
4.51E-20	6.4	3.45E-01	2,941,322
4.67E-20	0	5.79E-01	3,024,960
5.49E-20	6.8	3.17E-01	3,036,955
5.55E-20	18.5	9.56E-02	3,037,499
5.61E-20	0	9.06E-01	3,033,353
6.59E-20	0	7.34E-01	3,035,679
6.60E-20	0	7.74E-01	3,036,702
6.77E-20	6.6	3.21E-01	3,037,499
6.94E-20	0	6.42E-01	3,036,955
7.28E-20	9.7	2.53E-01	3,036,702
7.57E-20	0	6.75E-01	3,036,702
7.67E-20	2	4.31E-01	3,024,960
7.96E-20	0	5.63E-01	3,037,499
7.98E-20	0	7.85E-01	3,037,499
8.47E-20	18.8	1.01E-01	3,025,190
8.58E-20	12.3	2.21E-01	3,003,726
8.64E-20	33.1	5.47E-03	3,033,043
8.89E-20	18.9	9.06E-02	3,037,499
9.08E-20	13.4	1.98E-01	3,008,597
1.03E-19	2	4.31E-01	3,022,527
1.04E-19	16.7	1.26E-01	3,022,209
1.14E-19	0	8.15E-01	3,024,960
1.16E-19	30.7	9.87E-03	3,034,989
1.25E-19	0	6.22E-01	3,035,565
1.30E-19	0	5.00E-01	3,036,702
1.30E-19	0	7.88E-01	3,012,595
1.34E-19	0	6.91E-01	2,991,986
1.35E-19	22.5	5.30E-02	3,036,702
1.50E-19	20.8	6.92E-02	3,035,786
1.50E-19	0	6.90E-01	3,036,158

1.57E-19	0	9.90E-01	3,026,233
1.65E-19	30.9	8.60E-03	3,037,499
1.69E-19	0	7.34E-01	3,008,261
1.74E-19	11.6	2.29E-01	3,020,693
1.76E-19	24	4.07E-02	3,036,702
1.92E-19	4.4	3.74E-01	3,036,702
1.94E-19	14.9	1.52E-01	3,036,702
2.02E-19	0.9	4.55E-01	3,036,955
2.14E-19	5.1	3.57E-01	3,037,499
2.36E-19	11.3	2.19E-01	3,035,786
2.40E-19	17.2	1.15E-01	3,035,066
2.56E-19	15	1.48E-01	3,037,499
2.63E-19	30.3	1.06E-02	3,036,702
2.79E-19	0	7.60E-01	3,037,499
2.81E-19	16.3	1.28E-01	3,035,786
2.98E-19	8.3	2.81E-01	3,037,499
3.18E-19	0	5.62E-01	3,035,066
3.21E-19	11.6	2.12E-01	3,037,499
3.22E-19	21.2	7.01E-02	3,033,943
3.28E-19	13.8	1.69E-01	3,037,499
3.43E-19	0	8.28E-01	2,713,337
3.48E-19	0	8.84E-01	3,012,884
3.67E-19	18.4	9.84E-02	3,024,960
3.75E-19	0	5.43E-01	3,000,765
3.81E-19	0	9.36E-01	3,024,960
4.03E-19	11.7	2.15E-01	3,034,445
4.32E-19	5.7	3.42E-01	3,035,786
4.66E-19	21.4	6.28E-02	3,031,809
4.73E-19	15.4	1.46E-01	3,032,035
4.76E-19	5.5	3.48E-01	3,035,679
4.81E-19	31.3	7.97E-03	3,024,960
5.12E-19	15.6	1.40E-01	3,000,868
5.12E-19	24	4.04E-02	3,035,786
5.23E-19	0	5.40E-01	2,997,134
5.42E-19	1.6	4.41E-01	3,035,786
5.59E-19	14.6	1.56E-01	3,037,499
5.62E-19	2.5	4.18E-01	3,037,499
5.69E-19	7.3	3.06E-01	3,036,702
5.77E-19	6.5	3.32E-01	3,015,239
5.88E-19	17.8	1.08E-01	3,033,353
6.08E-19	16.4	1.26E-01	3,037,499
6.21E-19	0	7.53E-01	3,037,499
6.65E-19	0	8.02E-01	3,037,499
6.68E-19	9.1	2.67E-01	3,036,702
6.91E-19	9.4	2.60E-01	3,000,868
7.03E-19	0	4.82E-01	3,036,702
7.10E-19	23.5	4.46E-02	3,035,066
7.12E-19	2.7	4.14E-01	2,997,814

7.15E-19	0	5.82E-01	3,037,499
7.16E-19	27.6	2.03E-02	3,034,989
7.34E-19	13.9	1.68E-01	3,037,499
7.85E-19	0	8.09E-01	3,036,702
8.62E-19	5.9	3.40E-01	3,016,897
9.22E-19	0	9.20E-01	3,036,702
1.01E-18	5	3.60E-01	3,036,702
1.02E-18	0	7.58E-01	3,037,499
1.04E-18	16.8	1.21E-01	3,024,960
1.06E-18	19.9	7.83E-02	3,037,499
1.30E-18	0	4.81E-01	3,036,702
1.31E-18	17.8	1.04E-01	3,037,499
1.31E-18	9.5	2.81E-01	2,950,668
1.31E-18	0	7.44E-01	3,036,702
1.34E-18	0	8.14E-01	3,021,673
1.36E-18	23.9	4.35E-02	3,022,450
1.40E-18	5.9	3.37E-01	3,037,499
1.44E-18	0	9.50E-01	3,037,499
1.47E-18	0	4.95E-01	2,859,814
1.49E-18	17.5	1.11E-01	3,036,702
1.50E-18	0	1.00E+00	2,272,216
1.51E-18	0	7.35E-01	3,037,499
1.54E-18	0	8.53E-01	3,035,679
1.62E-18	14	1.75E-01	3,018,870
1.91E-18	0	8.70E-01	3,037,499
1.92E-18	12.4	1.97E-01	3,035,786
1.93E-18	11.9	2.07E-01	3,036,702
2.01E-18	0	6.22E-01	3,036,702
2.06E-18	1.6	4.40E-01	3,028,720
2.08E-18	25.2	3.72E-02	3,016,631
2.10E-18	33.3	5.63E-03	2,993,471
2.16E-18	0	6.96E-01	3,036,955
2.22E-18	3.2	4.02E-01	3,037,499
2.25E-18	15.8	1.35E-01	3,037,499
2.46E-18	8.6	2.78E-01	3,035,066
2.56E-18	5.7	3.43E-01	3,037,499
2.62E-18	0	7.56E-01	3,019,978
2.66E-18	0	8.20E-01	3,037,499
2.75E-18	9.4	2.58E-01	3,000,868
2.79E-18	0	9.48E-01	3,034,989
2.84E-18	0	5.07E-01	3,024,073
2.88E-18	17.7	1.07E-01	3,037,499
2.90E-18	0	4.95E-01	3,037,499
3.04E-18	23.2	5.93E-02	2,972,635
3.11E-18	0	8.58E-01	3,011,162
3.15E-18	0	4.81E-01	2,926,925
3.45E-18	4.5	3.71E-01	3,037,499
3.51E-18	0	5.69E-01	3,036,702

3.57E-18	14.6	1.70E-01	3,011,790
3.58E-18	19.2	8.82E-02	3,024,960
3.64E-18	0	9.13E-01	2,920,658
3.87E-18	0	5.94E-01	3,034,989
3.99E-18	28.1	1.82E-02	3,024,163
4.01E-18	0	8.25E-01	3,036,702
4.03E-18	9	2.66E-01	3,037,499
4.09E-18	0	7.79E-01	3,037,499
4.39E-18	0	7.68E-01	3,036,702
4.86E-18	0	6.17E-01	3,037,499
4.94E-18	1.3	4.46E-01	3,035,309
5.12E-18	0	5.21E-01	3,036,702
5.19E-18	8.9	2.68E-01	3,037,499
5.37E-18	26.1	2.65E-02	3,037,499
5.44E-18	12.3	2.01E-01	3,033,966
5.75E-18	30	1.07E-02	3,037,499
6.06E-18	0	9.28E-01	2,982,627
6.07E-18	0	5.21E-01	3,027,125
6.12E-18	20.9	6.81E-02	3,035,786
6.19E-18	11.6	2.37E-01	2,489,376
6.37E-18	18.6	1.00E-01	3,033,294
6.43E-18	10.1	2.46E-01	3,034,269
6.50E-18	6.8	3.19E-01	3,030,096
6.73E-18	11.2	2.20E-01	3,037,499
7.03E-18	0	7.92E-01	3,037,499
7.18E-18	13.1	2.00E-01	3,005,139
7.26E-18	22.2	5.44E-02	3,037,499
7.37E-18	0	6.59E-01	3,022,468
7.66E-18	8.9	2.70E-01	3,031,797
7.90E-18	21.7	6.27E-02	3,032,524
8.22E-18	0	6.34E-01	3,037,499
8.78E-18	27.4	2.21E-02	3,034,445
8.90E-18	11.8	2.10E-01	3,036,702
9.06E-18	16.1	1.36E-01	3,030,084
9.57E-18	0.8	4.59E-01	3,036,702
9.61E-18	23.9	4.14E-02	3,035,786
9.72E-18	0	4.94E-01	3,037,499
9.96E-18	15.3	1.45E-01	3,036,702
1.08E-17	0	5.98E-01	3,037,499
1.08E-17	0	5.21E-01	3,012,599
1.10E-17	0	7.88E-01	3,030,433
1.15E-17	15.1	1.47E-01	3,037,499
1.23E-17	0	6.23E-01	3,036,158
1.27E-17	12.2	2.01E-01	3,036,702
1.27E-17	25.5	4.33E-02	3,007,427
1.28E-17	0	6.51E-01	3,037,499
1.28E-17	0	7.34E-01	3,034,522
1.36E-17	16	1.33E-01	3,037,499

1.40E-17	0	5.42E-01	3,037,499
1.47E-17	0	5.22E-01	3,032,535
1.48E-17	0	8.22E-01	3,036,702
1.51E-17	9.6	2.55E-01	3,036,702
1.56E-17	11.3	2.19E-01	3,035,066
1.61E-17	0	6.05E-01	3,037,499
1.62E-17	21.9	5.68E-02	3,037,499
1.70E-17	0.8	4.60E-01	3,036,702
1.84E-17	0	6.21E-01	3,037,499
1.89E-17	0	6.07E-01	3,037,499
1.89E-17	0	9.06E-01	3,033,721
1.94E-17	0	1.00E+00	2,272,216
1.98E-17	0	9.34E-01	3,036,702
1.98E-17	0	5.45E-01	3,036,702
1.99E-17	18.7	9.72E-02	3,034,445
2.03E-17	0	8.95E-01	3,024,960
2.03E-17	13.6	1.92E-01	3,002,105
2.12E-17	0	6.12E-01	3,037,499
2.21E-17	9.6	2.55E-01	3,035,066
2.24E-17	6.4	3.33E-01	3,014,936
2.26E-17	28.2	1.67E-02	3,037,499
2.27E-17	32.7	5.15E-03	3,037,499
2.27E-17	0	9.49E-01	3,037,499
2.39E-17	0	8.42E-01	3,020,493
2.41E-17	0.6	4.64E-01	3,016,894
2.42E-17	0	8.54E-01	3,037,499
2.53E-17	18.7	9.74E-02	3,034,445
2.57E-17	0	6.26E-01	3,013,371
2.58E-17	6.4	3.26E-01	3,036,702
2.60E-17	10	2.45E-01	3,037,499
2.75E-17	22.8	5.05E-02	3,036,702
2.75E-17	0	8.36E-01	3,037,499
2.77E-17	0	8.10E-01	3,037,499
2.78E-17	12.3	2.12E-01	3,009,011
2.86E-17	0	8.91E-01	3,037,499
2.89E-17	26.4	2.44E-02	3,037,499
2.93E-17	9.9	2.48E-01	3,035,786
3.09E-17	0	6.36E-01	3,037,499
3.12E-17	0	9.16E-01	3,035,786
3.13E-17	0	6.24E-01	3,037,499
3.17E-17	0	9.24E-01	3,032,556
3.78E-17	43.9	8.53E-05	3,027,236
3.81E-17	18.1	1.05E-01	3,033,371
3.88E-17	4.7	3.68E-01	2,995,980
3.90E-17	0	6.23E-01	3,033,353
3.96E-17	0	5.47E-01	3,019,978
3.97E-17	14.9	1.67E-01	3,010,771
3.99E-17	8.7	2.91E-01	2,993,305

4.02E-17	26.1	2.72E-02	3,036,702
4.04E-17	0	8.97E-01	3,037,499
4.09E-17	14.8	1.55E-01	3,034,989
4.15E-17	0	5.22E-01	3,031,835
4.22E-17	17.9	1.04E-01	3,037,499
4.25E-17	0	9.26E-01	3,037,499
4.27E-17	5.8	3.40E-01	3,032,517
4.39E-17	11.6	2.16E-01	3,033,043
4.40E-17	0	1.00E+00	2,272,216
4.69E-17	0	7.74E-01	3,022,377
4.77E-17	0	7.98E-01	3,037,499
4.78E-17	6.6	3.22E-01	3,037,499
4.93E-17	0	4.81E-01	3,035,786
4.93E-17	15.1	1.57E-01	3,027,208
5.10E-17	3.7	3.90E-01	3,034,269
5.18E-17	0	7.51E-01	3,036,702
5.20E-17	0	5.94E-01	3,036,702
5.21E-17	3.2	4.01E-01	3,037,499
5.22E-17	0	5.61E-01	3,034,989
5.23E-17	0	6.93E-01	3,035,786
5.55E-17	0	6.32E-01	3,036,702
5.62E-17	22.6	5.19E-02	3,036,702
5.79E-17	0	5.30E-01	3,036,702
5.86E-17	0	4.97E-01	3,037,499
5.89E-17	4.8	3.65E-01	3,036,702
6.18E-17	0	7.16E-01	3,022,253
6.50E-17	11.1	2.43E-01	2,999,322
6.59E-17	0	5.72E-01	3,037,499
6.65E-17	10.6	2.33E-01	3,037,499
6.82E-17	0	5.55E-01	3,037,499
6.83E-17	28.3	1.70E-02	3,035,786
6.87E-17	37.7	1.06E-03	3,035,679
6.90E-17	10.5	2.37E-01	3,034,989
7.21E-17	19.7	1.97E-01	2,861,455
7.24E-17	17.7	1.06E-01	3,037,499
7.64E-17	21.5	6.10E-02	3,037,499
7.74E-17	18.2	1.01E-01	3,036,702
7.77E-17	0	4.88E-01	3,031,883
7.86E-17	22.6	5.67E-02	3,028,649
8.25E-17	0	5.48E-01	3,035,786
8.31E-17	0.4	4.67E-01	2,999,173
8.35E-17	0	7.88E-01	2,997,599
8.55E-17	15.7	1.38E-01	3,035,786
8.70E-17	4.4	3.74E-01	3,035,786
8.80E-17	31.1	2.57E-02	2,927,240
8.81E-17	14.1	1.65E-01	3,037,499
9.23E-17	2.7	4.13E-01	3,037,499
9.31E-17	1	4.53E-01	2,995,624

9.90E-17	41.2	6.57E-03	2,942,081
1.01E-16	0	8.15E-01	3,035,786
1.02E-16	0	8.66E-01	3,002,555
1.03E-16	0.8	4.58E-01	3,021,729
1.05E-16	0	4.92E-01	3,037,499
1.06E-16	0	5.12E-01	3,024,960
1.10E-16	0	6.20E-01	3,037,499
1.10E-16	14.3	1.62E-01	3,035,786
1.11E-16	6.9	3.27E-01	2,996,181
1.12E-16	0	5.57E-01	3,036,691
1.14E-16	0	8.68E-01	3,027,390
1.17E-16	0.2	4.70E-01	3,000,822
1.24E-16	12.8	1.93E-01	3,034,445
1.26E-16	13.1	1.85E-01	3,036,702
1.29E-16	0	6.59E-01	3,031,720
1.30E-16	13.6	1.77E-01	3,024,163
1.33E-16	0	5.57E-01	2,957,190
1.33E-16	0	7.81E-01	3,024,163
1.34E-16	0	6.57E-01	3,030,433
1.35E-16	1.2	4.50E-01	2,985,689
1.36E-16	0	8.75E-01	3,036,955
1.39E-16	0	6.80E-01	2,972,482
1.40E-16	0	9.77E-01	3,036,702
1.41E-16	0	5.80E-01	3,037,499
1.42E-16	0	5.09E-01	3,029,908
1.44E-16	0	5.21E-01	3,010,412
1.45E-16	0	9.22E-01	3,035,786
1.48E-16	8.2	2.85E-01	3,037,499
1.52E-16	14.4	1.58E-01	3,037,499
1.55E-16	0	6.78E-01	3,037,499
1.68E-16	25.1	3.39E-02	3,033,353
1.69E-16	0	6.10E-01	3,021,691
1.70E-16	15	1.88E-01	2,941,529
1.71E-16	8.4	2.82E-01	3,020,692
1.73E-16	11.1	2.23E-01	3,036,702
1.74E-16	0	9.03E-01	3,037,499
1.75E-16	0	6.47E-01	3,036,702
1.89E-16	3	4.07E-01	3,037,499
1.91E-16	31.7	1.02E-02	3,011,034
1.93E-16	18.4	1.03E-01	3,030,822
1.95E-16	15.9	1.34E-01	3,036,702
1.97E-16	0	5.10E-01	3,036,702
2.00E-16	6.2	3.31E-01	3,035,786
2.01E-16	28	1.74E-02	3,037,499
2.09E-16	2.6	4.22E-01	2,968,727
2.11E-16	0	5.38E-01	3,032,556
2.20E-16	2.4	4.21E-01	3,037,499
2.20E-16	31.6	7.85E-03	3,035,135

2.21E-16	0	7.68E-01	2,986,616
2.22E-16	24.9	3.44E-02	3,036,702
2.32E-16	0	7.49E-01	3,036,702
2.36E-16	22.4	5.36E-02	3,036,702
2.44E-16	26.7	2.30E-02	3,037,499
2.53E-16	5.2	3.56E-01	3,031,603
2.53E-16	0	5.03E-01	2,998,267
2.56E-16	18.4	9.69E-02	3,037,499
2.60E-16	0	9.91E-01	3,034,989
2.74E-16	0	7.55E-01	3,037,499
2.80E-16	0	9.27E-01	3,037,499
2.85E-16	0	7.11E-01	3,021,691
2.86E-16	0	6.46E-01	3,036,702
2.91E-16	6.2	3.32E-01	3,031,797
2.97E-16	9.9	2.50E-01	3,033,120
3.04E-16	9.4	2.61E-01	3,035,009
3.10E-16	19.5	8.37E-02	3,036,702
3.10E-16	0	5.92E-01	3,037,499
3.13E-16	20.5	7.13E-02	3,037,499
3.44E-16	14.8	1.52E-01	3,037,499
3.57E-16	3.2	4.03E-01	2,305,237
3.62E-16	0	5.23E-01	3,018,473
3.71E-16	14.9	1.57E-01	3,031,370
3.72E-16	5.9	3.38E-01	3,037,499
3.74E-16	0	6.95E-01	3,037,499
3.90E-16	17.8	1.05E-01	3,037,499
3.98E-16	14.6	1.56E-01	3,037,499
4.00E-16	0	6.84E-01	3,035,242
4.05E-16	0	8.91E-01	3,035,066
4.06E-16	11.2	2.23E-01	3,036,666
4.06E-16	2.7	4.14E-01	3,031,883
4.12E-16	0	8.27E-01	3,037,499
4.15E-16	0	6.62E-01	3,037,499
4.29E-16	0	5.26E-01	3,037,499
4.34E-16	0	4.96E-01	3,037,499
4.36E-16	0	5.74E-01	3,035,786
4.40E-16	4.1	3.80E-01	3,037,499
4.55E-16	28.3	1.63E-02	3,037,499
4.60E-16	24.7	3.59E-02	3,035,786
4.69E-16	11.7	2.09E-01	3,037,499
4.87E-16	0	6.94E-01	3,022,360
4.87E-16	9.1	2.78E-01	3,024,881
4.94E-16	6.8	3.17E-01	3,036,955
5.09E-16	0	8.06E-01	2,713,337
5.19E-16	2.4	4.20E-01	3,034,989
5.21E-16	38.4	1.21E-02	2,935,371
5.21E-16	0	5.22E-01	747,801
5.26E-16	4.4	3.74E-01	3,035,786

5.34E-16	26.2	2.99E-02	3,021,338
5.40E-16	0	5.49E-01	3,037,499
5.59E-16	30.6	1.57E-02	3,000,298
5.69E-16	0	9.87E-01	3,015,944
5.69E-16	0	6.23E-01	3,037,499
5.76E-16	0	1.00E+00	2,272,216
5.79E-16	4.8	3.65E-01	2,999,155
5.83E-16	0	9.33E-01	3,036,702
5.84E-16	15.3	2.14E-01	2,907,813
5.88E-16	0	8.13E-01	3,036,702
6.04E-16	11.8	2.08E-01	3,036,702
6.28E-16	0	6.34E-01	3,037,499
6.32E-16	0	6.84E-01	3,035,786
6.35E-16	0	7.02E-01	3,035,786
6.42E-16	0	5.62E-01	3,023,014
6.69E-16	7.8	2.94E-01	3,037,499
6.97E-16	0	4.81E-01	3,032,457
6.97E-16	0	5.86E-01	3,035,786
6.99E-16	20.9	7.08E-02	3,029,636
7.04E-16	0	4.99E-01	3,034,269
7.49E-16	18.1	1.01E-01	3,037,499
7.64E-16	1.3	4.48E-01	3,023,619
7.77E-16	0	6.23E-01	3,037,499
7.87E-16	16.7	1.21E-01	3,037,499
7.96E-16	12.5	1.97E-01	3,033,353
7.97E-16	15.3	1.55E-01	3,018,205
8.09E-16	26.7	2.30E-02	3,037,499
8.12E-16	0	7.43E-01	3,033,733
8.18E-16	0	6.98E-01	2,942,958
8.50E-16	27.1	2.11E-02	3,037,499
9.00E-16	8.7	2.73E-01	3,037,499
9.03E-16	21.6	6.50E-02	3,032,416
9.48E-16	2.7	4.12E-01	3,037,499
9.84E-16	0	7.06E-01	2,861,270
1.01E-15	10.9	2.26E-01	3,037,499
1.01E-15	0	5.55E-01	3,029,170
1.05E-15	0	4.84E-01	3,036,702
1.09E-15	0	6.15E-01	3,035,786
1.09E-15	0	5.24E-01	3,033,316
1.10E-15	4.5	3.79E-01	3,005,114
1.11E-15	33.8	4.22E-03	3,034,756
1.13E-15	9	2.67E-01	3,037,499
1.19E-15	4.8	3.71E-01	3,001,966
1.19E-15	6	3.36E-01	3,036,955
1.22E-15	0	8.73E-01	3,034,989
1.26E-15	36	8.60E-03	2,992,266
1.28E-15	0	9.48E-01	3,037,499
1.28E-15	20.6	7.20E-02	3,036,702

1.31E-15	10.8	2.29E-01	3,035,786
1.35E-15	18	1.03E-01	3,037,499
1.40E-15	0	8.89E-01	3,035,786
1.44E-15	0	8.32E-01	2,995,612
1.46E-15	4.8	3.64E-01	3,037,499
1.49E-15	0	5.24E-01	3,037,499
1.50E-15	6.8	3.22E-01	3,028,860
1.50E-15	2.5	4.18E-01	3,037,499
1.53E-15	0	6.16E-01	3,037,499
1.53E-15	0	7.06E-01	3,037,499
1.58E-15	0	4.99E-01	3,000,868
1.62E-15	23.6	6.37E-02	3,003,683
1.62E-15	0	6.46E-01	3,036,702
1.73E-15	10.5	2.36E-01	3,035,553
1.75E-15	10.1	2.46E-01	3,034,899
1.76E-15	0	8.18E-01	3,036,702
1.84E-15	0	6.28E-01	2,877,931
1.87E-15	15.9	1.35E-01	3,036,702
1.92E-15	0	5.86E-01	3,036,702
1.94E-15	0	5.20E-01	3,035,786
1.96E-15	0	9.79E-01	3,037,499
1.96E-15	15.6	1.39E-01	3,024,960
1.98E-15	7.1	3.10E-01	3,035,786
1.99E-15	17.6	1.17E-01	3,028,079
2.09E-15	23.6	5.02E-02	3,024,191
2.12E-15	0	6.98E-01	3,031,370
2.12E-15	0	6.15E-01	3,029,636
2.19E-15	7.3	3.06E-01	3,036,702
2.27E-15	14.1	1.68E-01	3,035,242
2.27E-15	3.3	4.00E-01	3,033,353
2.32E-15	0	5.50E-01	3,021,008
2.34E-15	8.6	2.77E-01	3,034,989
2.40E-15	0	9.05E-01	3,033,862
2.45E-15	24.7	3.67E-02	3,024,163
2.46E-15	11.1	2.23E-01	3,035,786
2.56E-15	0	4.97E-01	2,550,944
2.60E-15	0	8.64E-01	3,037,499
2.62E-15	16.6	1.28E-01	3,018,708
2.64E-15	0	6.48E-01	3,021,528
2.67E-15	0	7.25E-01	3,035,786
2.73E-15	9.6	2.68E-01	3,023,394
2.76E-15	0	8.82E-01	3,037,499
2.77E-15	0	6.25E-01	3,037,499
2.77E-15	0	9.59E-01	3,035,553
2.84E-15	0	7.06E-01	3,037,499
2.90E-15	9.2	2.63E-01	3,037,499
2.99E-15	0	5.17E-01	3,036,158
3.03E-15	10	2.46E-01	3,036,702

3.03E-15	5	3.60E-01	3,036,702
3.03E-15	22	5.74E-02	3,000,868
3.06E-15	0	8.97E-01	3,037,499
3.22E-15	14.3	1.60E-01	3,037,499
3.31E-15	12.9	1.93E-01	3,016,658
3.35E-15	0	5.69E-01	3,035,786
3.39E-15	0	6.92E-01	3,024,960
3.39E-15	21.3	8.35E-02	2,988,360
3.42E-15	34.7	4.55E-03	3,012,857
3.48E-15	0	5.92E-01	3,015,570
3.56E-15	30.5	9.89E-03	3,031,883
3.57E-15	18.8	9.16E-02	3,037,499
3.58E-15	0	6.76E-01	3,036,702
3.66E-15	0	8.87E-01	3,021,719
3.74E-15	0	5.90E-01	3,029,372
3.80E-15	19.8	9.00E-02	3,013,631
3.84E-15	3.5	3.93E-01	3,037,499
3.85E-15	8.9	2.70E-01	3,036,585
3.89E-15	0	5.00E-01	2,981,124
3.92E-15	0	7.55E-01	3,037,499
3.96E-15	0	6.60E-01	3,037,499
4.01E-15	0	9.86E-01	3,020,814
4.08E-15	20.5	7.10E-02	3,037,499
4.09E-15	8.7	2.75E-01	3,035,786
4.12E-15	16.3	1.27E-01	3,037,499
4.33E-15	0	4.89E-01	3,037,499
4.40E-15	0	8.84E-01	3,036,702
4.48E-15	0	8.31E-01	3,036,702
4.64E-15	10.4	2.40E-01	3,017,631
4.70E-15	4.8	3.64E-01	3,036,702
4.87E-15	26.5	2.59E-02	3,035,804
4.90E-15	0	9.52E-01	3,037,499
4.93E-15	0	5.41E-01	3,037,499
5.58E-15	0	9.72E-01	3,036,702
5.59E-15	21.9	6.18E-02	3,021,319
5.75E-15	0	8.15E-01	3,035,786
5.78E-15	0	6.67E-01	3,033,353
5.80E-15	0	7.42E-01	3,024,960
5.84E-15	0.8	4.58E-01	3,036,702
6.03E-15	0	4.92E-01	3,037,499
6.44E-15	7.5	3.02E-01	3,036,702
6.51E-15	0	6.00E-01	3,036,955
6.63E-15	0	5.01E-01	3,035,786
6.64E-15	26.2	2.67E-02	3,034,230
6.79E-15	2.4	4.21E-01	3,035,786
6.83E-15	3.7	3.89E-01	3,037,499
7.06E-15	0	7.04E-01	3,037,499
7.07E-15	10.9	2.25E-01	3,037,499

7.12E-15	0	5.27E-01	3,036,702
7.23E-15	1.5	4.42E-01	3,034,978
7.35E-15	18.5	9.54E-02	3,037,499
7.66E-15	0	8.24E-01	3,036,702
7.69E-15	14.9	1.51E-01	3,037,499
7.78E-15	0	7.24E-01	3,029,493
7.80E-15	21.9	5.80E-02	3,000,868
7.89E-15	0	5.55E-01	3,027,780
7.91E-15	0	6.54E-01	3,035,786
8.01E-15	13	1.85E-01	3,037,499
8.07E-15	0	5.19E-01	3,017,312
8.23E-15	0	4.98E-01	3,035,786
8.29E-15	7.5	3.02E-01	3,036,702
8.36E-15	9.1	2.67E-01	3,036,158
8.38E-15	16.6	1.26E-01	3,036,585
8.84E-15	0	9.11E-01	3,033,238
8.94E-15	0	6.31E-01	3,036,702
9.08E-15	9	2.67E-01	3,037,499
9.20E-15	0	5.54E-01	3,000,868
9.22E-15	0	8.03E-01	3,036,702
9.22E-15	0	6.26E-01	2,514,295
9.48E-15	17.2	1.14E-01	3,037,499
9.51E-15	17.7	1.11E-01	2,996,722
9.64E-15	6.6	3.31E-01	3,005,865
9.65E-15	1.1	4.52E-01	3,031,658
9.74E-15	13	1.86E-01	3,035,066
1.01E-14	15.4	1.47E-01	3,035,470
1.02E-14	34	3.69E-03	3,035,786
1.07E-14	26.7	4.31E-02	2,977,628
1.07E-14	4	3.84E-01	3,036,702
1.07E-14	1.4	4.45E-01	3,000,071
1.08E-14	23.5	4.35E-02	3,037,499
1.09E-14	0	6.19E-01	3,036,702
1.09E-14	0.5	4.65E-01	3,037,499
1.12E-14	0	6.87E-01	3,036,702
1.13E-14	14.3	1.60E-01	3,037,499
1.13E-14	0	6.08E-01	3,025,021
1.17E-14	39.9	3.16E-02	2,856,936
1.24E-14	0	5.82E-01	3,037,499
1.25E-14	10.6	2.41E-01	3,018,322
1.25E-14	0	8.72E-01	3,037,499
1.26E-14	2	4.31E-01	3,021,552
1.26E-14	0	5.64E-01	3,037,499
1.26E-14	7.3	3.07E-01	3,034,989
1.33E-14	13.5	2.68E-01	2,844,528
1.33E-14	0	6.11E-01	3,030,433
1.33E-14	8.7	2.73E-01	3,037,499
1.34E-14	0	9.63E-01	3,037,499

1.40E-14	13.1	1.89E-01	3,033,294
1.41E-14	0	7.25E-01	3,020,514
1.43E-14	10.2	2.54E-01	3,001,684
1.47E-14	17.8	1.04E-01	3,037,499
1.51E-14	3.6	3.91E-01	3,035,553
1.52E-14	14.3	1.67E-01	3,033,721
1.56E-14	0	6.38E-01	2,999,301
1.62E-14	0	5.42E-01	3,034,957
1.72E-14	0	4.97E-01	3,036,702
1.75E-14	12.6	2.09E-01	3,020,159
1.76E-14	19.1	8.91E-02	3,035,553
1.79E-14	11.8	2.29E-01	2,993,106
1.80E-14	0	9.25E-01	3,034,989
1.82E-14	15.6	1.40E-01	3,035,786
1.83E-14	0	7.85E-01	3,010,654
1.86E-14	0	7.17E-01	3,036,158
1.88E-14	7.9	2.91E-01	3,037,499
1.89E-14	0	7.26E-01	3,036,702
1.89E-14	0	9.33E-01	3,037,499
1.89E-14	0	6.11E-01	3,019,927
1.98E-14	0	4.83E-01	3,037,499
1.98E-14	0	5.78E-01	3,037,499
1.99E-14	0	7.65E-01	3,031,487
2.02E-14	0	7.54E-01	3,011,328
2.07E-14	0	9.59E-01	2,993,329
2.10E-14	0	7.08E-01	3,037,499
2.12E-14	29.4	1.41E-02	3,030,969
2.14E-14	8.9	2.69E-01	3,037,499
2.22E-14	0	7.25E-01	3,036,702
2.22E-14	0	5.91E-01	3,034,989
2.31E-14	0	9.18E-01	3,035,786
2.32E-14	10.8	2.29E-01	3,037,499
2.35E-14	0	8.94E-01	3,035,786
2.35E-14	0	5.58E-01	3,037,499
2.45E-14	2.1	4.28E-01	3,036,384
2.46E-14	25.9	2.93E-02	3,024,163
2.49E-14	11.9	2.07E-01	3,036,702
2.53E-14	7.5	3.00E-01	3,035,786
2.54E-14	0	5.60E-01	3,020,017
2.56E-14	12.9	1.93E-01	3,030,272
2.56E-14	0	7.68E-01	3,037,499
2.59E-14	21.1	6.71E-02	3,033,353
2.61E-14	11	2.31E-01	3,019,119
2.62E-14	14.4	1.59E-01	3,037,499
2.62E-14	0	5.08E-01	3,037,499
2.71E-14	0	8.40E-01	2,999,527
2.75E-14	17.2	1.14E-01	3,037,499
2.76E-14	0	6.69E-01	3,037,499

2.77E-14	3.7	3.92E-01	3,031,603
2.83E-14	3.3	3.99E-01	3,033,840
2.83E-14	0	5.04E-01	3,015,850
2.84E-14	0	9.60E-01	3,036,702
2.88E-14	1.4	4.45E-01	3,034,522
2.90E-14	0	6.21E-01	3,034,091
2.92E-14	2.5	4.22E-01	2,970,796
2.94E-14	9.1	2.67E-01	3,035,242
2.96E-14	16.8	1.21E-01	3,035,671
2.97E-14	7.8	2.94E-01	3,035,786
3.02E-14	4.7	3.66E-01	3,037,499
3.04E-14	0	7.06E-01	3,037,499
3.06E-14	30.2	2.88E-02	2,973,418
3.07E-14	30.4	1.05E-02	3,036,158
3.09E-14	18	1.02E-01	3,037,499
3.10E-14	14.3	1.65E-01	3,018,547
3.12E-14	15.8	1.47E-01	3,025,128
3.14E-14	0	5.13E-01	3,012,358
3.16E-14	25.1	3.21E-02	3,037,499
3.17E-14	18.7	9.22E-02	3,037,499
3.17E-14	0	1.00E+00	2,272,216
3.22E-14	7.4	3.04E-01	3,035,786
3.22E-14	0	8.21E-01	3,035,786
3.23E-14	0	7.07E-01	3,034,989
3.30E-14	8.2	2.85E-01	3,037,499
3.30E-14	25.1	3.69E-02	3,026,131
3.35E-14	14.4	1.61E-01	3,034,756
3.43E-14	0	7.18E-01	3,037,499
3.43E-14	22	5.57E-02	3,037,499
3.45E-14	12.6	1.94E-01	3,035,786
3.48E-14	17.9	1.04E-01	3,036,702
3.51E-14	0	6.76E-01	3,037,499
3.52E-14	43.1	1.06E-04	3,036,612
3.74E-14	14.1	1.68E-01	3,033,371
3.75E-14	9.1	2.69E-01	3,031,525
3.78E-14	0	6.63E-01	3,037,499
3.87E-14	24.9	5.97E-02	2,987,530
3.90E-14	0	6.15E-01	3,037,499
3.91E-14	0	6.36E-01	3,024,960
3.93E-14	0	6.91E-01	3,037,499
4.00E-14	0.2	4.72E-01	2,966,669
4.06E-14	16	1.33E-01	3,000,868
4.08E-14	2.7	4.15E-01	3,024,163
4.13E-14	0	9.43E-01	3,012,675
4.19E-14	18.9	9.16E-02	3,036,702
4.21E-14	14.1	1.66E-01	3,036,702
4.24E-14	10.3	2.40E-01	3,034,230
4.42E-14	23.2	4.71E-02	3,000,868

4.43E-14	11.3	2.17E-01	3,037,499
4.49E-14	0	5.78E-01	2,983,947
4.55E-14	0	8.34E-01	3,037,499
4.56E-14	0	5.65E-01	3,034,268
4.60E-14	0	9.62E-01	3,037,499
4.62E-14	0	9.05E-01	3,027,224
4.66E-14	0	9.09E-01	3,034,463
4.68E-14	5.3	3.55E-01	3,016,514
4.70E-14	0	8.23E-01	3,035,679
4.70E-14	27.6	1.92E-02	3,037,499
4.72E-14	0	5.13E-01	3,002,850
4.73E-14	0	6.47E-01	3,034,989
4.75E-14	0	6.47E-01	3,012,985
4.75E-14	10.1	2.45E-01	3,034,989
4.89E-14	14.4	1.59E-01	3,035,786
4.94E-14	12.2	2.03E-01	3,034,989
4.95E-14	26.7	2.39E-02	3,036,702
4.98E-14	15.3	1.46E-01	3,023,247
4.99E-14	6.1	3.33E-01	3,036,702
5.03E-14	0	8.02E-01	3,037,499
5.06E-14	11.1	2.22E-01	3,037,499
5.08E-14	0	5.19E-01	3,001,034
5.12E-14	0	5.29E-01	3,037,499
5.14E-14	0	6.30E-01	3,020,814
5.18E-14	0	8.59E-01	3,036,702
5.21E-14	8.5	3.12E-01	2,966,709
5.31E-14	0	6.56E-01	3,037,499
5.35E-14	29.4	1.30E-02	3,024,960
5.36E-14	0	6.70E-01	2,957,734
5.37E-14	0	6.45E-01	3,036,955
5.38E-14	8.6	2.83E-01	3,028,804
5.39E-14	16.9	1.23E-01	3,034,152
5.51E-14	0	9.26E-01	3,037,499
5.53E-14	1.2	4.48E-01	3,032,012
5.58E-14	12.1	2.06E-01	3,027,780
5.61E-14	21.5	6.10E-02	3,037,499
5.68E-14	23.2	4.78E-02	3,032,832
5.68E-14	0	5.73E-01	3,029,534
5.71E-14	0	9.06E-01	3,023,265
5.75E-14	0	5.94E-01	3,035,786
5.76E-14	0	8.49E-01	2,932,262
5.95E-14	14.5	1.58E-01	3,036,702
6.01E-14	0	6.91E-01	3,020,638
6.15E-14	3.4	3.98E-01	3,036,702
6.16E-14	0	7.91E-01	3,037,499
6.16E-14	2.7	4.14E-01	3,032,145
6.37E-14	7.2	3.09E-01	3,036,702
6.39E-14	4.4	3.73E-01	3,036,670

6.41E-14	0	7.67E-01	3,037,499
6.48E-14	9.5	2.55E-01	3,037,499
6.50E-14	0	8.80E-01	3,036,702
6.50E-14	0	1.00E+00	2,272,216
6.55E-14	0	8.69E-01	3,037,499
6.64E-14	22.5	6.56E-02	3,001,400
6.67E-14	9	2.92E-01	2,928,256
6.67E-14	0.8	4.57E-01	2,988,329
6.69E-14	0	5.27E-01	3,020,814
6.78E-14	0	8.27E-01	3,028,766
6.78E-14	28.8	3.76E-02	2,203,822
6.83E-14	0	1.00E+00	2,272,216
7.00E-14	0	9.75E-01	3,036,702
7.07E-14	0.8	4.58E-01	3,026,917
7.10E-14	6.8	3.16E-01	3,037,499
7.21E-14	0	6.56E-01	3,020,755
7.28E-14	0	7.29E-01	3,037,499
7.50E-14	0	5.68E-01	3,037,499
7.59E-14	0	6.13E-01	3,024,960
7.59E-14	25.2	3.14E-02	3,037,499
7.73E-14	23	4.96E-02	3,022,527
8.06E-14	0	4.96E-01	3,024,960
8.30E-14	28.5	1.69E-02	3,036,158
8.74E-14	0	1.00E+00	2,272,216
8.75E-14	23.4	4.62E-02	3,034,989
8.77E-14	0	9.29E-01	3,037,499
9.03E-14	7.3	3.07E-01	3,000,868
9.05E-14	0	5.88E-01	3,026,336
9.08E-14	0	5.30E-01	3,034,362
9.09E-14	5.2	3.54E-01	3,037,499
9.14E-14	0	9.97E-01	3,037,499
9.33E-14	11.1	2.26E-01	3,020,814
9.38E-14	10.4	2.36E-01	3,037,499
9.70E-14	25.7	2.84E-02	3,037,499
9.71E-14	9.4	2.84E-01	2,939,663
9.97E-14	6.5	3.24E-01	3,037,499
1.00E-13	4.9	3.62E-01	3,036,691
1.01E-13	0	5.58E-01	3,035,786
1.03E-13	1.7	4.39E-01	3,034,989
1.04E-13	4.3	3.84E-01	2,993,095
1.07E-13	11.9	2.20E-01	3,013,439
1.08E-13	0	7.37E-01	3,037,499
1.10E-13	0	6.92E-01	3,037,499
1.13E-13	17.6	1.07E-01	3,037,499
1.13E-13	0	5.02E-01	3,037,499
1.13E-13	2.7	4.13E-01	3,037,499
1.14E-13	0	6.77E-01	2,555,644
1.17E-13	15.9	1.66E-01	3,002,713

1.17E-13	0	4.82E-01	3,037,499
1.19E-13	27.1	2.14E-02	3,037,499
1.19E-13	0	5.93E-01	3,037,499
1.19E-13	11.8	2.08E-01	3,037,499
1.20E-13	15.9	1.40E-01	3,031,370
1.22E-13	4.7	3.69E-01	2,991,601
1.27E-13	0	9.35E-01	3,037,499
1.28E-13	0	7.88E-01	3,034,269
1.28E-13	5.1	3.68E-01	3,004,863
1.29E-13	0	7.18E-01	3,019,869
1.29E-13	16.3	1.28E-01	3,037,499
1.29E-13	12.5	1.95E-01	3,000,868
1.29E-13	18.5	9.90E-02	3,023,247
1.34E-13	0	9.28E-01	3,037,499
1.36E-13	0.5	4.64E-01	2,953,283
1.36E-13	5.2	3.54E-01	3,036,702
1.39E-13	19.1	8.93E-02	3,036,702
1.39E-13	1.4	4.45E-01	3,037,499
1.40E-13	13.4	1.82E-01	3,034,091
1.41E-13	1	4.53E-01	3,036,955
1.42E-13	0	9.10E-01	3,024,416
1.47E-13	0	4.99E-01	3,035,883
1.47E-13	6.9	3.13E-01	3,037,499
1.48E-13	0	8.76E-01	3,023,247
1.50E-13	0	7.58E-01	3,034,989
1.50E-13	0	5.52E-01	3,037,499
1.51E-13	0	6.21E-01	3,013,418
1.52E-13	0	5.00E-01	3,035,786
1.52E-13	0	9.99E-01	3,036,702
1.53E-13	15.5	1.45E-01	3,020,814
1.54E-13	17.1	1.15E-01	3,037,499
1.56E-13	15.3	1.45E-01	3,036,702
1.57E-13	27.8	2.24E-02	3,009,694
1.58E-13	0	7.79E-01	3,036,702
1.60E-13	0	5.15E-01	3,032,012
1.62E-13	18.8	9.76E-02	3,033,144
1.64E-13	7.3	3.08E-01	3,019,181
1.65E-13	0	8.27E-01	3,035,242
1.65E-13	1.6	4.41E-01	3,024,960
1.69E-13	5.2	3.54E-01	3,037,499
1.70E-13	0	5.07E-01	752,744
1.70E-13	22.9	4.77E-02	3,037,499
1.72E-13	1.5	4.43E-01	3,037,499
1.73E-13	3.2	4.01E-01	3,020,814
1.74E-13	24.6	3.80E-02	3,033,316
1.83E-13	26.7	2.34E-02	3,037,499
1.83E-13	10.4	2.35E-01	3,037,499
1.83E-13	0	5.69E-01	3,037,499

1.85E-13	3.4	3.96E-01	3,037,499
1.86E-13	0	8.31E-01	3,036,702
1.90E-13	0	9.73E-01	3,037,499
1.94E-13	0	6.34E-01	3,037,499
1.95E-13	15	1.49E-01	3,037,499
1.96E-13	15.8	1.61E-01	3,000,214
1.96E-13	18	1.04E-01	3,036,702
1.97E-13	0	9.49E-01	3,035,184
1.97E-13	7.7	2.95E-01	3,037,499
2.00E-13	0	9.17E-01	2,934,266
2.00E-13	6.7	3.19E-01	3,036,702
2.01E-13	0	8.58E-01	3,030,571
2.01E-13	23.3	4.68E-02	3,036,158
2.02E-13	1.5	4.42E-01	3,037,499
2.02E-13	53.1	1.44E-01	2,713,337
2.03E-13	0	5.71E-01	3,034,989
2.05E-13	0	5.63E-01	3,035,786
2.06E-13	13.8	1.79E-01	3,011,159
2.06E-13	0	7.06E-01	3,036,702
2.09E-13	0	9.45E-01	3,014,503
2.10E-13	1.5	4.41E-01	3,036,702
2.11E-13	5.7	3.45E-01	3,034,978
2.12E-13	9.6	2.67E-01	3,000,016
2.13E-13	17	1.21E-01	3,035,788
2.25E-13	12.1	2.04E-01	3,035,786
2.25E-13	4.8	3.63E-01	3,036,955
2.30E-13	6	3.35E-01	3,036,955
2.34E-13	4.8	3.69E-01	3,009,486
2.35E-13	12.7	1.93E-01	3,034,989
2.38E-13	20.6	1.43E-01	2,938,260
2.38E-13	18.6	9.61E-02	3,036,955
2.39E-13	0	6.93E-01	3,035,786
2.39E-13	0	8.52E-01	3,000,868
2.51E-13	23.7	4.58E-02	3,031,603
2.54E-13	0	9.11E-01	3,020,293
2.62E-13	0	5.30E-01	3,037,499
2.66E-13	4	3.82E-01	3,037,499
2.66E-13	0	6.32E-01	3,036,702
2.67E-13	4.9	3.60E-01	3,037,499
2.68E-13	0	7.03E-01	3,036,585
2.72E-13	0	7.78E-01	2,939,886
2.72E-13	1.2	4.49E-01	3,036,702
2.73E-13	34.9	2.68E-03	3,037,499
2.74E-13	4.5	3.72E-01	3,036,702
2.78E-13	17.1	1.15E-01	3,037,499
2.81E-13	1.3	4.47E-01	2,948,860
2.81E-13	0	9.97E-01	3,037,499
2.83E-13	29.7	1.17E-02	3,037,499

2.84E-13	9.5	2.57E-01	3,037,499
2.87E-13	6.2	3.31E-01	3,035,786
2.90E-13	7.8	2.94E-01	3,037,499
2.91E-13	0	6.27E-01	3,037,499
2.98E-13	9.7	2.52E-01	3,035,066
3.01E-13	3.5	3.95E-01	3,037,499
3.05E-13	4.4	3.74E-01	3,036,702
3.08E-13	0	5.35E-01	3,034,989
3.16E-13	30.4	1.01E-02	3,035,553
3.20E-13	0	7.03E-01	3,018,651
3.25E-13	17.3	1.16E-01	3,033,548
3.28E-13	0	8.08E-01	3,036,702
3.32E-13	0	4.87E-01	3,035,553
3.36E-13	0	5.72E-01	2,930,601
3.37E-13	22.1	5.63E-02	3,036,955
3.38E-13	0	7.21E-01	3,037,499
3.41E-13	6.3	3.52E-01	2,970,554
3.54E-13	28.7	1.85E-02	3,007,768
3.56E-13	0	8.07E-01	3,036,702
3.62E-13	10.3	2.40E-01	3,035,786
3.63E-13	0.9	4.57E-01	3,035,553
3.67E-13	0	6.11E-01	3,037,499
3.67E-13	0	5.10E-01	3,035,009
3.78E-13	0	8.52E-01	3,035,786
3.79E-13	19.3	9.15E-02	3,020,832
3.80E-13	0	6.36E-01	3,036,702
3.84E-13	0	5.41E-01	3,030,806
3.84E-13	37.6	1.06E-02	2,923,185
3.87E-13	0.5	4.66E-01	3,037,499
3.87E-13	15.9	1.59E-01	2,997,226
3.88E-13	0	5.25E-01	2,987,024
3.90E-13	0	6.20E-01	3,036,702
3.91E-13	0	7.80E-01	3,035,066
3.97E-13	7.2	3.08E-01	3,036,702
4.04E-13	0	6.48E-01	3,018,322
4.08E-13	0	5.56E-01	3,036,702
4.14E-13	14.5	2.11E-01	2,927,738
4.17E-13	0.4	4.67E-01	3,036,702
4.22E-13	48.6	4.21E-06	3,036,702
4.26E-13	16.8	1.22E-01	3,034,269
4.31E-13	0	9.37E-01	3,033,353
4.31E-13	0	6.41E-01	3,034,989
4.32E-13	0	6.60E-01	3,037,499
4.43E-13	25.2	5.73E-02	2,978,331
4.49E-13	6	3.35E-01	3,037,499
4.49E-13	0	9.10E-01	3,023,247
4.57E-13	0	9.70E-01	3,037,499
4.57E-13	41.9	1.90E-04	3,035,786

4.61E-13	19.9	7.76E-02	3,037,499
4.61E-13	9.2	2.64E-01	3,036,158
4.70E-13	14.2	1.67E-01	3,030,084
4.73E-13	0	9.57E-01	3,037,499
4.73E-13	0	7.80E-01	3,036,702
4.75E-13	0	5.79E-01	3,035,786
4.76E-13	0	7.15E-01	3,030,969
5.01E-13	0	7.47E-01	3,034,989
5.03E-13	0	6.49E-01	3,037,499
5.05E-13	0.1	4.75E-01	3,024,163
5.07E-13	10.2	2.43E-01	2,583,839
5.18E-13	0	9.75E-01	3,036,702
5.19E-13	10.8	2.50E-01	2,993,340
5.22E-13	21.4	8.22E-02	3,001,466
5.26E-13	10.8	2.29E-01	3,037,499
5.31E-13	0	9.93E-01	3,026,107
5.39E-13	28.1	1.89E-02	3,034,445
5.42E-13	0	9.16E-01	2,996,722
5.47E-13	0	5.29E-01	3,037,499
5.53E-13	0	6.37E-01	3,012,696
5.54E-13	0	6.91E-01	3,036,702
5.56E-13	0	5.46E-01	3,034,091
5.59E-13	3.2	4.02E-01	3,036,702
5.80E-13	0	7.64E-01	3,037,499
5.86E-13	14.3	1.63E-01	3,036,702
5.91E-13	26.3	2.96E-02	3,019,199
5.94E-13	0	5.73E-01	3,035,786
6.03E-13	8.1	3.39E-01	2,921,488
6.18E-13	0	5.88E-01	3,033,353
6.20E-13	11.1	2.25E-01	3,034,989
6.26E-13	6.6	3.29E-01	3,016,582
6.30E-13	25.5	2.96E-02	3,037,499
6.39E-13	0	7.73E-01	3,037,499
6.46E-13	7.1	3.10E-01	3,037,499
6.48E-13	0	9.58E-01	2,995,770
6.52E-13	0	8.88E-01	2,981,675
6.54E-13	0	8.22E-01	3,022,821
6.59E-13	7.3	3.06E-01	3,037,499
6.59E-13	12.4	2.02E-01	3,033,294
6.71E-13	0.7	4.61E-01	3,009,187
6.78E-13	0	5.25E-01	3,035,786
6.98E-13	19.1	9.05E-02	3,023,247
6.99E-13	0	9.83E-01	3,036,702
7.09E-13	0	9.94E-01	3,034,989
7.12E-13	15.7	1.37E-01	3,037,499
7.25E-13	18.1	1.02E-01	3,035,553
7.25E-13	4.6	3.68E-01	3,037,499
7.32E-13	0	5.67E-01	3,036,702

7.51E-13	0	8.95E-01	3,036,702
7.52E-13	0	7.66E-01	2,995,551
7.56E-13	16.3	1.26E-01	3,037,499
7.57E-13	0	4.86E-01	2,963,084
7.62E-13	16.4	1.29E-01	2,988,329
7.74E-13	0	6.71E-01	3,036,702
7.76E-13	8.4	2.96E-01	2,995,470
7.80E-13	18.3	1.05E-01	3,031,658
7.90E-13	0	5.17E-01	3,024,960
7.97E-13	0	7.43E-01	3,032,406
8.11E-13	40.2	7.30E-02	2,824,517
8.37E-13	4.5	3.70E-01	3,035,786
8.37E-13	0	7.75E-01	3,036,702
8.42E-13	7.3	3.04E-01	3,037,499
8.49E-13	3.5	3.95E-01	3,035,786
8.82E-13	0	5.57E-01	3,037,499
8.83E-13	6.4	3.31E-01	3,014,270
8.96E-13	0	6.62E-01	3,037,499
9.09E-13	33.9	2.33E-02	2,909,043
9.13E-13	0	8.93E-01	3,036,702
9.27E-13	0	9.83E-01	2,542,385
9.37E-13	0	6.81E-01	3,023,728
9.42E-13	0	5.17E-01	3,024,163
9.47E-13	16.6	1.23E-01	3,036,702
9.60E-13	10.7	2.30E-01	3,037,499
9.72E-13	18	1.80E-01	2,937,432
9.75E-13	19	9.16E-02	3,000,324
9.76E-13	0	8.31E-01	3,030,060
9.79E-13	0	7.71E-01	3,035,786
9.87E-13	0	6.73E-01	3,037,499
9.93E-13	7.9	2.96E-01	3,025,232
9.98E-13	24.3	4.18E-02	3,021,552
9.99E-13	11.2	2.22E-01	3,036,955
1.00E-12	15.9	1.34E-01	3,037,499
1.00E-12	0	5.71E-01	3,008,234
1.04E-12	0	8.35E-01	3,037,129
1.04E-12	10.5	2.38E-01	3,034,445
1.05E-12	0	5.74E-01	3,037,499
1.06E-12	0	1.00E+00	2,272,216
1.08E-12	0	8.25E-01	3,012,534
1.08E-12	7.4	3.04E-01	3,037,499
1.09E-12	23.7	4.39E-02	3,024,073
1.10E-12	9.4	2.64E-01	3,018,598
1.10E-12	16.7	1.23E-01	3,035,553
1.11E-12	14.8	1.52E-01	3,037,499
1.11E-12	33.4	2.30E-02	2,940,822
1.13E-12	0	9.31E-01	3,037,499
1.14E-12	5.1	3.60E-01	3,030,322

1.14E-12	0	4.97E-01	2,596,378
1.15E-12	0	9.25E-01	3,037,499
1.17E-12	21.5	6.43E-02	3,020,814
1.19E-12	18	1.03E-01	3,036,702
1.19E-12	0	5.49E-01	3,037,499
1.20E-12	0.7	4.60E-01	3,037,499
1.22E-12	0	9.57E-01	3,037,499
1.22E-12	27.4	1.99E-02	3,037,499
1.25E-12	6.9	3.14E-01	3,037,499
1.27E-12	0	7.24E-01	3,021,983
1.28E-12	7.9	2.91E-01	3,037,499
1.30E-12	0	8.08E-01	3,027,923
1.30E-12	23.5	4.30E-02	3,037,499
1.31E-12	0.2	4.73E-01	3,037,499
1.35E-12	34.5	3.34E-03	2,999,155
1.35E-12	0	6.64E-01	3,037,499
1.38E-12	16.3	1.27E-01	3,037,499
1.38E-12	30.9	8.97E-03	3,035,553
1.40E-12	0	7.62E-01	2,937,208
1.43E-12	0	7.72E-01	3,033,353
1.46E-12	0	5.60E-01	3,037,499
1.46E-12	16.5	1.25E-01	3,037,499
1.49E-12	10.9	2.26E-01	3,037,499
1.49E-12	23.4	4.65E-02	3,034,269
1.50E-12	0	7.85E-01	3,037,499
1.52E-12	0	5.34E-01	3,019,258
1.54E-12	16.7	1.23E-01	3,036,955
1.54E-12	94.4	2.39E-05	2,713,337
1.54E-12	0	8.10E-01	3,036,702
1.57E-12	0.4	4.68E-01	3,035,066
1.59E-12	0	6.28E-01	3,037,499
1.59E-12	0	8.72E-01	3,033,353
1.61E-12	0	6.37E-01	3,037,499
1.62E-12	0	4.94E-01	3,037,499
1.63E-12	0	5.49E-01	3,036,158
1.64E-12	21.1	6.54E-02	3,037,499
1.68E-12	0	9.59E-01	3,037,499
1.68E-12	23	6.01E-02	2,515,110
1.69E-12	32	7.05E-03	3,024,416
1.69E-12	5	3.60E-01	3,034,989
1.70E-12	13.8	1.73E-01	3,034,989
1.71E-12	11.7	2.10E-01	3,037,499
1.74E-12	10.1	2.43E-01	3,037,499
1.77E-12	0	6.91E-01	3,010,343
1.79E-12	15.4	1.42E-01	3,037,499
1.80E-12	0	1.00E+00	2,272,216
1.82E-12	0	6.17E-01	2,953,182
1.85E-12	0	5.36E-01	3,037,499

1.86E-12	0	7.28E-01	3,037,499
1.86E-12	2.9	4.10E-01	3,035,804
1.88E-12	25.4	3.05E-02	3,037,499
1.89E-12	27.4	2.06E-02	3,036,702
1.90E-12	28.3	2.01E-02	3,032,500
1.92E-12	11.1	2.48E-01	2,998,605
1.96E-12	1.3	4.47E-01	3,036,702
1.98E-12	15.7	1.38E-01	3,035,786
2.05E-12	0	4.87E-01	3,037,499
2.10E-12	5.3	3.59E-01	3,013,654
2.10E-12	0	8.70E-01	2,999,671
2.11E-12	0	9.79E-01	2,828,732
2.11E-12	14.5	1.57E-01	3,037,499
2.13E-12	0.1	4.73E-01	3,019,089
2.15E-12	0.5	4.67E-01	3,033,353
2.15E-12	18.3	9.83E-02	3,037,499
2.16E-12	4	3.88E-01	3,009,890
2.19E-12	0	5.75E-01	2,999,155
2.20E-12	23.4	6.24E-02	3,005,599
2.22E-12	0	8.38E-01	3,037,499
2.22E-12	11.2	2.22E-01	3,036,158
2.23E-12	0	9.92E-01	3,020,480
2.26E-12	5.5	3.48E-01	3,036,955
2.26E-12	2.9	4.08E-01	3,037,499
2.28E-12	14.2	1.64E-01	3,036,702
2.28E-12	13.4	1.79E-01	3,022,527
2.30E-12	0	5.22E-01	3,035,880
2.32E-12	0	4.92E-01	3,021,621
2.32E-12	16.6	1.27E-01	3,029,851
2.33E-12	0	5.64E-01	3,035,786
2.34E-12	17.9	1.23E-01	2,997,590
2.36E-12	0	8.79E-01	3,035,786
2.37E-12	14.3	1.60E-01	3,037,499
2.38E-12	0	4.99E-01	3,034,899
2.40E-12	0.2	4.73E-01	3,037,499
2.44E-12	3.9	3.87E-01	3,020,270
2.45E-12	21.1	6.52E-02	3,037,499
2.46E-12	5.3	3.53E-01	3,035,786
2.48E-12	29.4	2.11E-02	3,008,597
2.48E-12	12.5	2.31E-01	2,977,538
2.50E-12	3.2	4.03E-01	3,021,613
2.50E-12	26.5	2.58E-02	3,024,416
2.51E-12	0	6.37E-01	3,037,499
2.53E-12	33.9	4.00E-03	3,035,242
2.56E-12	11	2.31E-01	3,019,119
2.63E-12	0	9.62E-01	3,023,247
2.65E-12	17.6	1.08E-01	3,037,499
2.66E-12	5.5	3.47E-01	3,036,702

2.68E-12	1.6	4.40E-01	3,024,960
2.69E-12	0	6.61E-01	3,008,141
2.76E-12	16.9	1.34E-01	2,962,499
2.78E-12	21.2	6.90E-02	3,020,017
2.81E-12	0	5.14E-01	3,036,702
2.84E-12	54.4	1.39E-01	2,713,337
2.86E-12	6.7	3.20E-01	3,024,960
2.87E-12	0	7.45E-01	2,964,417
2.87E-12	12.2	2.00E-01	3,037,499
2.89E-12	8.5	2.78E-01	3,035,786
2.89E-12	1	4.53E-01	3,037,499
2.93E-12	0	8.73E-01	2,415,424
2.97E-12	25.1	3.28E-02	3,035,786
2.99E-12	16.2	1.40E-01	3,023,742
3.02E-12	12.6	1.98E-01	3,030,172
3.04E-12	17	1.17E-01	3,037,499
3.06E-12	22	5.72E-02	3,036,702
3.10E-12	2.1	4.27E-01	3,037,499
3.11E-12	14.1	1.66E-01	3,036,702
3.11E-12	22.8	4.90E-02	3,037,499
3.12E-12	9	2.71E-01	3,020,270
3.16E-12	12	2.04E-01	3,037,499
3.16E-12	9.9	2.49E-01	3,035,786
3.20E-12	0	6.70E-01	3,036,702
3.22E-12	10.5	2.34E-01	3,037,499
3.24E-12	0	4.89E-01	3,037,499
3.25E-12	11.9	2.06E-01	3,037,499
3.32E-12	14.9	1.51E-01	3,035,066
3.38E-12	0.8	4.59E-01	3,033,316
3.46E-12	1.4	4.46E-01	3,033,246
3.47E-12	0	4.90E-01	3,037,499
3.53E-12	0	4.96E-01	3,016,631
3.54E-12	9	2.70E-01	3,032,466
3.62E-12	15.7	1.51E-01	3,010,591
3.67E-12	13.9	1.72E-01	3,032,556
3.69E-12	2.8	4.16E-01	2,944,941
3.70E-12	4.3	3.76E-01	2,999,155
3.75E-12	20.8	7.18E-02	3,022,703
3.78E-12	4.3	3.77E-01	3,023,132
3.82E-12	0	5.76E-01	3,037,499
3.86E-12	4.4	3.74E-01	3,035,786
3.88E-12	4.7	3.67E-01	3,037,499
3.89E-12	0.4	4.67E-01	3,035,786
3.93E-12	20.9	6.68E-02	3,037,499
3.97E-12	0	8.17E-01	3,036,955
4.07E-12	7.8	2.94E-01	3,037,499
4.17E-12	0	7.57E-01	2,987,853
4.17E-12	0	1.00E+00	2,272,216

4.22E-12	0	7.21E-01	3,034,989
4.27E-12	0	5.77E-01	2,999,527
4.29E-12	22.7	5.01E-02	3,037,499
4.33E-12	10.7	2.61E-01	2,979,057
4.33E-12	5.8	3.46E-01	3,014,386
4.35E-12	0	6.10E-01	2,971,883
4.35E-12	16.9	1.20E-01	3,036,702
4.36E-12	0	8.00E-01	3,036,612
4.47E-12	25.8	2.80E-02	3,037,499
4.48E-12	1.8	4.35E-01	3,036,702
4.50E-12	0	7.89E-01	3,036,702
4.53E-12	22.8	5.22E-02	3,035,777
4.57E-12	0	6.16E-01	3,030,468
4.58E-12	0	1.00E+00	2,272,216
4.59E-12	11.6	2.11E-01	3,037,499
4.66E-12	7.3	3.05E-01	3,037,499
4.66E-12	4.9	3.63E-01	3,020,832
4.67E-12	5	3.70E-01	2,998,509
4.70E-12	4.7	3.66E-01	3,035,679
4.71E-12	0	7.97E-01	3,031,869
4.75E-12	19.7	8.18E-02	3,000,868
4.77E-12	0	5.13E-01	3,037,499
4.79E-12	0	9.71E-01	3,037,499
4.79E-12	0	9.41E-01	3,030,900
4.80E-12	4.1	3.79E-01	3,037,499
4.85E-12	0	9.92E-01	3,026,263
4.92E-12	4.4	3.73E-01	3,037,499
4.96E-12	2.1	4.28E-01	3,037,499
5.01E-12	14.4	1.60E-01	3,036,702
5.03E-12	17.1	2.05E-01	2,927,325
5.07E-12	0	1.00E+00	2,272,216
5.07E-12	7.5	3.17E-01	2,995,547
5.08E-12	20	1.12E-01	2,960,796
5.09E-12	0	1.00E+00	2,272,216
5.24E-12	20.8	6.95E-02	3,036,955
5.27E-12	0.2	4.72E-01	3,035,786
5.31E-12	6	3.35E-01	3,036,702
5.35E-12	0	8.72E-01	3,036,955
5.36E-12	0	9.03E-01	3,035,786
5.37E-12	0	7.48E-01	3,034,756
5.37E-12	0	9.19E-01	3,037,499
5.42E-12	0	4.94E-01	3,035,786
5.44E-12	0	8.79E-01	3,036,702
5.45E-12	11.4	2.16E-01	3,037,499
5.48E-12	19	1.43E-01	2,979,914
5.49E-12	19.2	8.60E-02	3,037,499
5.54E-12	15.9	1.46E-01	3,017,363
5.54E-12	2.1	4.28E-01	3,037,499

5.55E-12	0	8.70E-01	3,020,932
5.55E-12	0	5.90E-01	3,037,499
5.60E-12	0	9.67E-01	3,037,499
5.64E-12	25.9	3.81E-02	3,008,821
5.65E-12	0	9.58E-01	3,035,786
5.77E-12	0	9.64E-01	3,037,499
5.90E-12	0	8.11E-01	3,037,499
5.98E-12	33.5	1.81E-02	2,954,233
6.04E-12	0	8.50E-01	3,037,499
6.04E-12	10	2.47E-01	3,024,960
6.07E-12	0.1	4.74E-01	3,024,536
6.07E-12	2.5	4.21E-01	3,024,030
6.11E-12	0	6.96E-01	3,037,499
6.18E-12	28.6	1.81E-02	3,019,473
6.19E-12	16.8	1.25E-01	3,034,000
6.21E-12	0	6.62E-01	3,037,499
6.26E-12	10.8	2.28E-01	3,037,499
6.32E-12	26.8	5.94E-02	2,963,980
6.37E-12	0	5.06E-01	2,938,399
6.39E-12	0	5.10E-01	3,037,499
6.45E-12	0	8.42E-01	3,036,702
6.46E-12	7.1	3.10E-01	3,037,499
6.56E-12	20.3	7.58E-02	3,035,242
6.59E-12	9.5	2.60E-01	3,030,272
6.71E-12	0	6.64E-01	2,931,139
6.76E-12	0	9.36E-01	3,035,786
6.89E-12	6.9	3.14E-01	3,037,499
6.98E-12	11.2	2.26E-01	3,032,416
7.04E-12	0	7.91E-01	3,025,020
7.10E-12	9.7	2.51E-01	3,037,499
7.15E-12	0	6.08E-01	3,032,924
7.17E-12	0	7.79E-01	2,713,337
7.21E-12	0	6.23E-01	3,024,590
7.21E-12	0	6.15E-01	3,011,254
7.25E-12	0	8.84E-01	3,037,129
7.27E-12	18.6	9.54E-02	3,035,786
7.37E-12	1.3	4.46E-01	3,037,499
7.38E-12	3.1	4.07E-01	3,006,833
7.44E-12	12.2	2.35E-01	2,984,827
7.45E-12	18.5	9.58E-02	3,037,499
7.46E-12	7.6	2.99E-01	3,037,499
7.54E-12	0	7.30E-01	3,035,804
7.56E-12	11.3	2.24E-01	3,019,199
7.56E-12	0	5.77E-01	2,976,359
7.70E-12	0	9.40E-01	3,034,989
7.72E-12	18.3	1.01E-01	3,033,353
7.72E-12	0	8.26E-01	3,034,989
7.73E-12	0	8.95E-01	3,024,163

7.74E-12	2.8	4.11E-01	3,035,786
7.90E-12	0	5.25E-01	3,037,499
7.91E-12	0	6.02E-01	3,037,499
7.92E-12	6.2	3.37E-01	2,522,421
7.99E-12	14.7	1.53E-01	3,037,499
8.03E-12	9.4	2.58E-01	3,037,499
8.05E-12	10.9	2.28E-01	3,035,066
8.15E-12	0	8.83E-01	3,036,702
8.21E-12	0	9.06E-01	3,020,638
8.22E-12	19.9	7.82E-02	3,037,499
8.24E-12	0	9.89E-01	3,035,786
8.27E-12	19.3	8.52E-02	3,037,499
8.27E-12	13.3	2.06E-01	2,991,462
8.34E-12	26.1	2.81E-02	3,036,158
8.54E-12	0	6.72E-01	3,036,702
8.57E-12	16.5	1.26E-01	3,030,170
8.58E-12	0	5.30E-01	3,036,702
8.67E-12	4.7	3.66E-01	3,035,786
8.70E-12	0	5.12E-01	3,007,807
8.71E-12	10	2.55E-01	3,014,215
8.73E-12	0	8.56E-01	3,037,499
8.85E-12	26.8	2.43E-02	3,035,804
8.89E-12	10.2	2.42E-01	3,036,702
8.92E-12	0	6.47E-01	3,037,499
8.92E-12	11.9	2.09E-01	3,034,989
8.95E-12	6.8	3.18E-01	3,037,499
8.99E-12	0	9.68E-01	2,985,819
8.99E-12	0	6.95E-01	3,036,702
9.02E-12	0	9.03E-01	3,033,433
9.05E-12	0	7.26E-01	2,773,006
9.07E-12	0.2	4.73E-01	3,022,450
9.16E-12	0	5.47E-01	3,015,421
9.16E-12	0	7.49E-01	2,951,517
9.32E-12	12.9	1.87E-01	3,037,499
9.33E-12	0	6.80E-01	3,033,433
9.36E-12	22.2	5.39E-02	3,037,499
9.40E-12	0	6.22E-01	3,036,702
9.40E-12	0	8.47E-01	2,494,708
9.41E-12	0	7.60E-01	3,036,702
9.43E-12	0	6.52E-01	3,019,258
9.65E-12	0	6.87E-01	3,030,822
9.68E-12	0	6.40E-01	3,037,499
9.83E-12	0	4.77E-01	2,933,659
9.99E-12	0	6.84E-01	2,914,044
1.02E-11	25.6	3.36E-02	3,022,351
1.04E-11	0	1.00E+00	2,272,216
1.05E-11	0	8.45E-01	3,037,499
1.06E-11	7.7	2.97E-01	3,036,702

1.06E-11	7.3	3.11E-01	3,030,824
1.06E-11	17	1.17E-01	3,037,499
1.08E-11	15.1	1.48E-01	3,035,679
1.08E-11	26.2	2.58E-02	3,037,499
1.09E-11	0	9.61E-01	3,037,499
1.09E-11	12.1	2.70E-01	2,901,430
1.09E-11	0	8.93E-01	3,037,129
1.09E-11	31.1	8.40E-03	3,036,702
1.11E-11	0	8.35E-01	3,036,955
1.12E-11	0	5.30E-01	3,037,499
1.13E-11	5.7	3.45E-01	3,033,353
1.14E-11	7.2	3.38E-01	2,954,341
1.15E-11	0	8.06E-01	3,035,786
1.15E-11	0	4.89E-01	3,027,060
1.16E-11	11.3	2.36E-01	2,995,066
1.18E-11	4.5	3.71E-01	3,037,499
1.19E-11	5.4	3.56E-01	3,004,117
1.21E-11	0	8.70E-01	3,036,702
1.22E-11	0	7.71E-01	3,011,268
1.25E-11	1.3	4.46E-01	3,037,499
1.29E-11	0	7.35E-01	3,030,651
1.30E-11	5.8	3.43E-01	3,021,552
1.30E-11	0	6.54E-01	3,037,499
1.30E-11	15.7	1.40E-01	3,033,958
1.30E-11	0	8.07E-01	3,037,499
1.32E-11	0	7.10E-01	3,035,786
1.32E-11	0	5.63E-01	3,015,850
1.32E-11	21	7.88E-02	3,003,362
1.33E-11	0.8	4.59E-01	3,037,499
1.34E-11	24.6	3.55E-02	3,037,499
1.34E-11	36.1	2.17E-03	3,033,940
1.37E-11	0	7.59E-01	3,037,499
1.38E-11	0.6	4.63E-01	2,995,653
1.38E-11	22.7	5.47E-02	3,030,102
1.39E-11	11.7	2.09E-01	3,037,499
1.40E-11	10.9	2.31E-01	3,033,371
1.41E-11	0	7.71E-01	3,031,119
1.42E-11	22	6.12E-02	3,030,322
1.43E-11	32.1	6.54E-03	3,036,702
1.45E-11	0	9.03E-01	3,036,702
1.45E-11	1.8	4.34E-01	3,034,989
1.45E-11	0	9.91E-01	3,005,259
1.46E-11	0	5.15E-01	3,036,702
1.47E-11	0	6.81E-01	3,037,499
1.49E-11	28.4	1.84E-02	3,022,468
1.50E-11	0	8.74E-01	3,037,499
1.50E-11	15.4	1.70E-01	3,002,805
1.51E-11	29.9	1.24E-02	3,033,043

1.51E-11	14.1	1.70E-01	3,021,552
1.51E-11	0	4.84E-01	3,012,623
1.55E-11	1.6	4.39E-01	3,036,702
1.55E-11	6.8	3.17E-01	3,037,499
1.57E-11	7	3.11E-01	3,037,499
1.59E-11	0	7.50E-01	3,005,318
1.61E-11	0	7.21E-01	3,022,450
1.62E-11	17.2	1.33E-01	3,002,689
1.64E-11	0	9.02E-01	3,037,499
1.66E-11	25.9	2.90E-02	3,023,247
1.66E-11	0	5.13E-01	3,029,493
1.69E-11	0	5.70E-01	1,484,736
1.72E-11	0	8.37E-01	3,036,702
1.72E-11	6.8	3.17E-01	3,037,499
1.72E-11	0	6.86E-01	3,035,066
1.73E-11	17.5	1.10E-01	3,036,702
1.73E-11	0	6.80E-01	3,036,702
1.74E-11	16.7	2.02E-01	2,933,285
1.74E-11	0	5.52E-01	3,037,499
1.74E-11	18.4	1.02E-01	3,030,610
1.76E-11	21.2	6.94E-02	3,034,075
1.76E-11	23.8	4.65E-02	3,019,209
1.77E-11	6.5	3.23E-01	3,037,499
1.77E-11	25.8	2.82E-02	3,037,499
1.78E-11	0	9.09E-01	3,036,702
1.79E-11	14.7	1.53E-01	3,037,499
1.79E-11	0	8.48E-01	2,986,243
1.82E-11	0	7.63E-01	3,035,786
1.83E-11	0	4.97E-01	3,035,066
1.85E-11	0	9.39E-01	3,021,719
1.86E-11	0	6.56E-01	3,018,322
1.88E-11	0	8.59E-01	3,035,786
1.90E-11	24.6	5.30E-02	2,999,371
1.91E-11	0	1.00E+00	2,272,216
1.92E-11	0	8.57E-01	3,016,819
1.92E-11	2.5	4.19E-01	3,037,499
1.92E-11	16.1	1.32E-01	3,036,702
1.94E-11	20.5	7.21E-02	3,000,868
1.95E-11	22.5	5.18E-02	3,037,499
2.01E-11	0	6.83E-01	3,037,499
2.02E-11	0	8.76E-01	3,035,786
2.02E-11	0	7.82E-01	3,035,007
2.04E-11	1.9	4.33E-01	3,036,702
2.05E-11	14.6	1.56E-01	3,037,499
2.05E-11	13.4	1.79E-01	3,036,702
2.12E-11	0	5.40E-01	3,032,556
2.13E-11	17	1.50E-01	2,987,725
2.14E-11	0	5.27E-01	3,000,868

2.14E-11	34.2	2.38E-02	2,915,227
2.14E-11	6	3.37E-01	3,036,702
2.15E-11	26.2	6.44E-02	2,969,204
2.16E-11	15.8	1.42E-01	3,031,658
2.19E-11	0	8.24E-01	3,037,499
2.21E-11	0.7	4.61E-01	3,035,066
2.23E-11	20.3	1.93E-01	2,154,190
2.26E-11	24.6	3.80E-02	3,034,212
2.26E-11	17.2	1.17E-01	3,033,353
2.26E-11	16.5	1.28E-01	3,033,966
2.28E-11	0	9.30E-01	3,010,042
2.28E-11	1.1	4.53E-01	3,036,702
2.30E-11	0.6	4.62E-01	3,036,702
2.31E-11	28	1.72E-02	3,037,499
2.31E-11	4.9	3.62E-01	3,036,702
2.31E-11	23.1	4.89E-02	3,033,840
2.32E-11	0	9.15E-01	3,014,573
2.33E-11	7.5	3.03E-01	2,999,527
2.33E-11	0	5.18E-01	3,037,181
2.36E-11	0	5.11E-01	3,033,948
2.36E-11	0	6.37E-01	3,028,751
2.41E-11	0	4.95E-01	3,034,899
2.42E-11	0	9.01E-01	3,037,499
2.44E-11	1.2	4.49E-01	3,033,353
2.46E-11	0	8.43E-01	3,036,702
2.46E-11	0	8.95E-01	3,015,574
2.50E-11	27.7	1.87E-02	3,037,499
2.55E-11	0	7.14E-01	3,035,786
2.57E-11	12	2.05E-01	3,035,786
2.58E-11	0	7.29E-01	3,033,353
2.59E-11	15.7	1.37E-01	3,037,499
2.59E-11	0	7.57E-01	3,036,702
2.59E-11	12.5	1.98E-01	3,034,091
2.59E-11	0	8.83E-01	3,036,158
2.60E-11	0	5.43E-01	3,037,499
2.61E-11	0	6.04E-01	3,020,814
2.64E-11	0	8.42E-01	3,037,499
2.65E-11	0	5.18E-01	3,036,702
2.65E-11	0	8.16E-01	2,911,174
2.67E-11	18.1	1.02E-01	3,024,960
2.68E-11	0	1.00E+00	2,272,216
2.69E-11	28.5	1.72E-02	3,033,316
2.69E-11	12.3	2.00E-01	3,036,702
2.72E-11	14.2	1.81E-01	2,515,012
2.73E-11	13.9	1.68E-01	3,037,499
2.76E-11	5.6	3.47E-01	3,021,552
2.77E-11	0	5.76E-01	3,036,702
2.77E-11	43.3	1.84E-01	2,713,337

2.78E-11	16.3	1.37E-01	2,982,488
2.81E-11	0	6.47E-01	3,035,786
2.81E-11	9.5	2.55E-01	3,037,499
2.84E-11	0	6.87E-01	3,037,499
2.86E-11	0	5.64E-01	3,033,433
2.88E-11	11.2	2.21E-01	3,024,960
2.88E-11	5.4	3.50E-01	3,035,786
2.90E-11	1	4.54E-01	3,035,788
2.90E-11	24.4	7.00E-02	3,011,746
2.91E-11	0	5.31E-01	3,024,163
2.92E-11	0	9.76E-01	2,960,911
2.94E-11	5.2	3.54E-01	3,037,499
2.94E-11	0	5.60E-01	3,036,702
2.98E-11	0.3	4.71E-01	3,037,499
2.99E-11	5.7	3.44E-01	3,036,702
3.00E-11	18.6	9.71E-02	3,035,242
3.00E-11	1.8	4.35E-01	3,034,091
3.02E-11	10.5	2.35E-01	3,037,499
3.04E-11	15.8	1.43E-01	3,016,725
3.05E-11	10.9	2.74E-01	2,158,793
3.08E-11	9.1	2.65E-01	3,037,499
3.09E-11	0	5.48E-01	3,033,294
3.09E-11	0	4.77E-01	3,034,989
3.10E-11	13.2	1.85E-01	2,999,527
3.12E-11	20.8	7.08E-02	3,022,527
3.13E-11	0	7.64E-01	3,035,066
3.18E-11	0	6.70E-01	3,037,499
3.23E-11	0	6.68E-01	3,034,445
3.23E-11	9.5	2.58E-01	3,034,989
3.24E-11	0	6.43E-01	3,035,786
3.27E-11	20.1	8.04E-02	3,020,814
3.27E-11	0	7.32E-01	3,035,804
3.33E-11	0	6.78E-01	3,036,702
3.33E-11	17.6	1.41E-01	2,961,393
3.35E-11	28.7	1.49E-02	3,037,499
3.36E-11	11.4	2.29E-01	3,025,179
3.37E-11	21.7	5.99E-02	3,035,786
3.40E-11	0	5.96E-01	3,036,702
3.40E-11	0	5.64E-01	3,036,955
3.46E-11	0	4.77E-01	2,920,982
3.49E-11	12.8	2.01E-01	3,012,408
3.50E-11	23.9	4.04E-02	3,037,499
3.50E-11	11.9	2.06E-01	3,037,499
3.51E-11	14	1.93E-01	2,265,675
3.61E-11	16.1	1.32E-01	3,036,702
3.63E-11	8.3	2.85E-01	3,020,814
3.64E-11	7.7	3.13E-01	2,957,734
3.65E-11	0	8.37E-01	3,036,158

3.66E-11	0	4.80E-01	2,879,522
3.66E-11	32.2	6.02E-03	3,037,499
3.68E-11	5.6	3.45E-01	3,035,786
3.69E-11	0	8.32E-01	3,028,860
3.73E-11	0	8.71E-01	3,037,499
3.77E-11	4.9	3.61E-01	3,035,786
3.78E-11	0	6.38E-01	2,872,481
3.81E-11	4.8	3.63E-01	3,037,499
3.81E-11	0	8.86E-01	3,036,702
3.86E-11	17.3	1.22E-01	3,024,514
3.92E-11	0	8.67E-01	2,980,763
3.95E-11	0	7.65E-01	3,036,702
4.00E-11	0	6.33E-01	3,037,499
4.06E-11	0	5.06E-01	3,035,066
4.06E-11	19.4	1.39E-01	2,979,735
4.07E-11	2.7	4.13E-01	3,024,960
4.07E-11	0	5.67E-01	3,037,499
4.08E-11	0	8.71E-01	3,028,258
4.09E-11	12.8	1.91E-01	3,035,786
4.12E-11	21.2	6.69E-02	3,036,158
4.12E-11	28.2	2.23E-02	3,008,234
4.14E-11	11.8	2.67E-01	2,944,929
4.14E-11	13.6	1.72E-01	3,037,499
4.18E-11	13.9	1.67E-01	3,037,499
4.18E-11	4.3	3.75E-01	3,036,702
4.19E-11	8.9	2.70E-01	3,036,702
4.21E-11	15.1	1.50E-01	3,036,585
4.22E-11	29.4	2.47E-02	2,955,914
4.23E-11	16.9	1.56E-01	2,970,977
4.32E-11	0	8.22E-01	3,036,158
4.34E-11	26	2.83E-02	3,034,989
4.40E-11	25.3	3.27E-02	3,036,384
4.41E-11	4.3	3.84E-01	2,485,322
4.42E-11	0	8.77E-01	3,035,786
4.43E-11	10.2	2.44E-01	3,000,071
4.52E-11	6.3	3.28E-01	3,037,499
4.53E-11	11.7	2.16E-01	3,021,552
4.53E-11	7.5	3.24E-01	2,973,730
4.56E-11	0	6.45E-01	3,024,416
4.57E-11	8.5	2.78E-01	3,035,786
4.57E-11	12.6	1.92E-01	3,037,499
4.59E-11	10	2.47E-01	3,035,186
4.61E-11	3	4.08E-01	3,036,702
4.61E-11	4.2	3.78E-01	3,035,786
4.64E-11	4.5	3.70E-01	3,037,499
4.64E-11	0	6.94E-01	3,034,989
4.64E-11	10.7	2.31E-01	3,035,553
4.65E-11	10.9	2.28E-01	3,034,756

4.69E-11	0	5.51E-01	3,037,499
4.73E-11	15.6	1.42E-01	3,019,258
4.78E-11	0	5.10E-01	3,037,499
4.81E-11	16.9	1.23E-01	3,019,978
4.83E-11	12.4	3.28E-01	2,792,318
4.84E-11	0	5.45E-01	3,016,936
4.92E-11	0	6.52E-01	3,034,756
4.92E-11	9.2	2.76E-01	3,013,698
4.94E-11	0	5.86E-01	3,037,499
5.02E-11	0	7.82E-01	3,037,499
5.05E-11	13.8	2.12E-01	2,977,072
5.07E-11	1.9	4.33E-01	3,029,424
5.08E-11	1.1	4.52E-01	3,035,786
5.09E-11	0	6.27E-01	3,034,989
5.11E-11	0.7	4.60E-01	3,035,066
5.12E-11	0	8.48E-01	3,034,445
5.12E-11	12	2.08E-01	3,033,043
5.17E-11	25.5	3.03E-02	3,034,230
5.22E-11	0	8.47E-01	3,036,702
5.23E-11	27.2	3.95E-02	2,982,386
5.24E-11	2.7	4.18E-01	3,003,004
5.27E-11	0	9.81E-01	3,035,679
5.30E-11	12.9	1.88E-01	3,034,269
5.32E-11	17.2	1.15E-01	3,036,702
5.38E-11	0	8.77E-01	3,004,226
5.41E-11	0	6.04E-01	2,959,567
5.42E-11	18.5	9.59E-02	3,037,499
5.46E-11	0	8.16E-01	3,020,832
5.47E-11	20.6	7.15E-02	3,037,181
5.56E-11	0	6.17E-01	3,034,989
5.58E-11	0	9.18E-01	3,029,534
5.64E-11	12.6	2.29E-01	2,979,547
5.69E-11	13.8	1.71E-01	3,036,702
5.73E-11	0	5.58E-01	3,037,499
5.76E-11	0	5.73E-01	3,014,386
5.79E-11	11.7	2.10E-01	3,037,499
5.85E-11	1.4	4.46E-01	3,010,039
5.85E-11	0	6.01E-01	3,037,499
5.87E-11	0	6.70E-01	3,035,786
5.89E-11	20.4	8.54E-02	3,011,117
5.89E-11	20.5	7.30E-02	3,037,129
5.94E-11	0	8.66E-01	2,950,304
5.98E-11	24.8	3.57E-02	3,034,957
5.99E-11	5.9	3.39E-01	3,036,955
6.00E-11	23.7	4.25E-02	3,035,786
6.01E-11	0	7.85E-01	3,033,353
6.04E-11	0	5.58E-01	3,034,756
6.14E-11	0	5.88E-01	3,034,989

6.20E-11	0	1.00E+00	2,272,216
6.20E-11	29.2	1.42E-02	3,036,158
6.27E-11	0	7.20E-01	3,036,702
6.27E-11	25.1	3.27E-02	3,036,702
6.28E-11	12.7	1.93E-01	3,034,874
6.36E-11	0	5.37E-01	3,036,702
6.38E-11	4.1	3.80E-01	3,035,786
6.42E-11	0	5.42E-01	3,020,814
6.44E-11	0	6.44E-01	3,016,113
6.48E-11	15.3	1.46E-01	3,036,702
6.51E-11	0	8.67E-01	3,036,702
6.54E-11	24.4	4.22E-02	3,019,119
6.56E-11	19.2	8.85E-02	3,036,702
6.57E-11	0	1.00E+00	2,272,216
6.71E-11	0	6.21E-01	3,027,358
6.74E-11	0.7	4.61E-01	3,030,433
6.77E-11	0	7.49E-01	3,035,786
6.80E-11	0	5.52E-01	3,019,119
6.81E-11	0.9	4.56E-01	3,033,188
6.83E-11	0	8.40E-01	3,037,499
6.84E-11	0	5.92E-01	3,031,835
6.85E-11	0	9.45E-01	3,023,247
6.87E-11	27	3.96E-02	2,992,840
6.93E-11	0	5.79E-01	3,037,499
6.97E-11	9.7	2.53E-01	3,036,702
7.01E-11	17.8	1.08E-01	3,000,071
7.01E-11	5.2	3.59E-01	3,015,852
7.02E-11	0	5.87E-01	3,036,702
7.04E-11	0	8.78E-01	3,017,073
7.12E-11	1.5	4.42E-01	3,037,499
7.12E-11	29.6	1.25E-02	3,036,702
7.14E-11	0	9.85E-01	3,037,499
7.17E-11	0	8.71E-01	3,024,960
7.19E-11	0	7.24E-01	3,035,788
7.24E-11	6.3	3.28E-01	3,036,702
7.30E-11	12.6	2.85E-01	2,713,337
7.31E-11	0	8.84E-01	3,036,702
7.35E-11	0	7.67E-01	3,036,702
7.37E-11	0	9.42E-01	2,997,977
7.43E-11	0	5.76E-01	3,037,499
7.51E-11	0	4.90E-01	3,036,702
7.53E-11	27.5	1.93E-02	3,037,499
7.68E-11	0	7.20E-01	2,993,218
7.74E-11	4.5	3.70E-01	3,024,960
7.87E-11	0	7.85E-01	3,037,499
8.02E-11	0	9.70E-01	3,010,543
8.04E-11	0.9	4.56E-01	3,000,868
8.07E-11	0	5.47E-01	3,036,702

8.16E-11	0	5.57E-01	3,020,049
8.17E-11	25.9	3.19E-02	2,982,000
8.20E-11	0	9.82E-01	3,036,702
8.26E-11	17.1	1.16E-01	3,035,066
8.36E-11	2.9	4.16E-01	2,997,574
8.40E-11	0	5.73E-01	3,034,230
8.45E-11	2.7	4.14E-01	3,037,499
8.55E-11	9	2.66E-01	3,037,499
8.58E-11	0	8.84E-01	2,155,146
8.58E-11	9.9	2.47E-01	3,037,499
8.58E-11	0	8.77E-01	3,024,416
8.59E-11	23.9	4.11E-02	3,024,960
8.66E-11	14.1	1.84E-01	3,012,354
8.67E-11	0	7.16E-01	3,036,702
8.71E-11	22	1.25E-01	2,934,313
8.82E-11	0	7.83E-01	3,029,596
8.87E-11	0	8.67E-01	3,031,148
8.89E-11	0	7.19E-01	3,035,553
8.89E-11	0	7.82E-01	3,036,702
8.93E-11	2.8	4.12E-01	3,024,163
9.02E-11	1.2	4.49E-01	3,037,499
9.08E-11	0	9.02E-01	3,037,499
9.23E-11	16	1.33E-01	3,036,702
9.25E-11	2.7	4.15E-01	3,000,532
9.30E-11	0	6.40E-01	3,037,499
9.31E-11	0	1.00E+00	2,272,216
9.32E-11	0	4.84E-01	3,020,814
9.32E-11	9	2.69E-01	3,034,230
9.39E-11	3.6	3.93E-01	3,031,603
9.55E-11	0	8.33E-01	3,037,499
9.55E-11	21.9	7.07E-02	2,998,757
9.60E-11	22.1	5.49E-02	3,037,499
9.61E-11	0	5.24E-01	3,032,556
9.63E-11	11.2	2.19E-01	3,037,499
9.65E-11	13.6	1.73E-01	3,037,499
9.68E-11	9.1	3.06E-01	2,969,855
9.81E-11	14.9	1.50E-01	3,037,499
9.98E-11	14.4	1.73E-01	2,552,095
1.00E-10	13.4	1.77E-01	3,037,499
1.01E-10	0	5.29E-01	3,030,084
1.01E-10	13	1.87E-01	3,036,158
1.02E-10	0	9.77E-01	3,020,898
1.02E-10	15.5	1.40E-01	3,037,499
1.02E-10	27.7	2.06E-02	3,034,091
1.03E-10	15.2	1.45E-01	3,037,499
1.04E-10	20	8.39E-02	2,996,724
1.05E-10	12.4	1.99E-01	3,000,071
1.05E-10	9.9	2.64E-01	2,999,906

1.06E-10	0	8.56E-01	3,020,894
1.06E-10	10.3	2.38E-01	3,037,499
1.06E-10	21.7	5.92E-02	3,037,499
1.07E-10	4.8	3.65E-01	3,036,158
1.08E-10	0	7.86E-01	3,037,499
1.08E-10	0	8.73E-01	3,032,517
1.08E-10	0	8.26E-01	3,033,976
1.09E-10	0	6.56E-01	3,035,066
1.10E-10	13.8	1.83E-01	3,014,332
1.11E-10	0	7.16E-01	3,036,702
1.11E-10	17.8	1.07E-01	3,036,332
1.11E-10	0	9.79E-01	3,037,499
1.11E-10	0	5.24E-01	3,018,283
1.13E-10	29.6	1.25E-02	3,031,883
1.14E-10	0	7.80E-01	3,023,249
1.15E-10	28.7	2.14E-02	3,007,133
1.15E-10	0	7.38E-01	3,007,274
1.15E-10	0	5.99E-01	3,015,030
1.15E-10	2.9	4.09E-01	3,035,786
1.16E-10	12.7	1.95E-01	3,034,091
1.17E-10	3	4.06E-01	3,037,499
1.17E-10	2.2	4.26E-01	3,029,299
1.18E-10	26.4	2.72E-02	3,033,161
1.18E-10	9.1	2.67E-01	3,032,284
1.19E-10	0	1.00E+00	2,272,216
1.20E-10	0	5.32E-01	3,037,499
1.21E-10	26.7	2.30E-02	3,037,499
1.21E-10	0	9.01E-01	2,973,558
1.22E-10	0	9.41E-01	3,034,269
1.22E-10	25	3.46E-02	3,034,989
1.23E-10	0	6.17E-01	3,037,499
1.24E-10	16.4	1.44E-01	3,004,540
1.24E-10	7.3	3.05E-01	3,037,499
1.24E-10	0	4.81E-01	3,037,499
1.26E-10	20.3	8.07E-02	3,020,755
1.27E-10	2.6	4.16E-01	3,024,163
1.27E-10	0	8.08E-01	3,029,604
1.28E-10	0	8.01E-01	3,037,499
1.28E-10	0	8.28E-01	3,003,019
1.29E-10	10.9	2.25E-01	3,037,499
1.29E-10	0	7.60E-01	3,036,702
1.32E-10	0	8.67E-01	3,036,702
1.33E-10	0	6.57E-01	3,024,152
1.33E-10	7.5	3.03E-01	3,033,353
1.34E-10	30.6	9.71E-03	3,035,786
1.35E-10	0	7.37E-01	3,036,158
1.36E-10	5.5	3.50E-01	3,033,316
1.36E-10	0	9.16E-01	2,995,645

1.37E-10	0	7.73E-01	3,037,499
1.38E-10	0	4.74E-01	2,826,053
1.40E-10	12.8	1.91E-01	3,036,585
1.40E-10	0	6.62E-01	1,470,599
1.40E-10	18.2	9.91E-02	3,037,499
1.42E-10	2	4.30E-01	3,027,082
1.42E-10	14.9	1.50E-01	3,037,499
1.44E-10	14.3	1.61E-01	3,035,786
1.44E-10	20.9	6.99E-02	3,033,966
1.45E-10	9	2.70E-01	3,028,720
1.45E-10	1.8	4.34E-01	3,033,246
1.46E-10	0	8.15E-01	3,017,369
1.46E-10	0	6.87E-01	2,891,894
1.46E-10	10	2.46E-01	3,037,499
1.46E-10	0	9.71E-01	3,025,347
1.46E-10	12.4	2.00E-01	3,022,439
1.48E-10	7.9	2.92E-01	3,037,499
1.49E-10	0	8.45E-01	3,037,499
1.49E-10	0	9.74E-01	3,037,499
1.50E-10	0	6.03E-01	3,025,093
1.50E-10	0	9.39E-01	3,037,499
1.51E-10	12.4	2.01E-01	3,021,730
1.53E-10	13.8	1.71E-01	3,036,702
1.54E-10	0	1.00E+00	2,272,216
1.55E-10	13.4	1.78E-01	3,036,702
1.55E-10	1.7	4.38E-01	3,037,499
1.56E-10	15.4	1.42E-01	3,037,499
1.56E-10	16.3	1.60E-01	2,996,603
1.59E-10	11.6	2.14E-01	3,034,989
1.60E-10	21.9	6.33E-02	3,020,462
1.61E-10	26.8	2.43E-02	3,034,792
1.61E-10	39.2	1.35E-03	3,015,742
1.63E-10	1.1	4.52E-01	3,037,499
1.64E-10	0	6.99E-01	3,034,890
1.64E-10	0	5.49E-01	2,999,155
1.65E-10	0	6.70E-01	3,024,521
1.65E-10	0	8.25E-01	3,036,702
1.65E-10	10.7	2.29E-01	3,037,499
1.65E-10	15.2	1.48E-01	3,034,989
1.65E-10	0	7.16E-01	3,037,499
1.65E-10	0	9.47E-01	3,031,720
1.67E-10	6.5	3.23E-01	3,037,499
1.67E-10	0	7.97E-01	3,021,691
1.67E-10	0	7.31E-01	3,010,054
1.67E-10	14	1.68E-01	3,036,702
1.68E-10	0	7.15E-01	3,037,499
1.68E-10	19.6	9.13E-02	3,005,444
1.69E-10	7.6	2.98E-01	3,037,499

1.70E-10	0	8.82E-01	3,036,702
1.71E-10	0	8.34E-01	3,022,527
1.71E-10	15.2	1.45E-01	3,037,499
1.72E-10	5.3	3.51E-01	3,037,499
1.73E-10	0	5.51E-01	3,034,989
1.75E-10	0	7.23E-01	3,037,499
1.75E-10	0	9.30E-01	3,036,702
1.76E-10	0	9.94E-01	3,035,786
1.78E-10	16.6	1.24E-01	3,035,786
1.79E-10	6.4	3.28E-01	3,036,702
1.81E-10	10.2	2.44E-01	3,033,208
1.82E-10	0	7.32E-01	3,037,499
1.83E-10	0	6.63E-01	3,035,242
1.83E-10	25	3.45E-02	3,032,517
1.83E-10	16.4	1.42E-01	3,002,136
1.84E-10	17.5	1.11E-01	3,034,230
1.84E-10	0	7.31E-01	3,000,071
1.86E-10	24.6	3.60E-02	3,034,230
1.86E-10	6.6	3.25E-01	3,033,547
1.87E-10	22	5.70E-02	3,036,702
1.87E-10	0	5.25E-01	3,007,138
1.88E-10	0	8.88E-01	3,010,789
1.88E-10	43.7	1.14E-01	507,215
1.88E-10	0	7.48E-01	3,035,007
1.89E-10	23.3	4.71E-02	3,023,247
1.90E-10	0	5.96E-01	3,034,989
1.91E-10	12.7	1.93E-01	3,024,163
1.92E-10	0	6.05E-01	3,035,786
1.92E-10	13.7	1.73E-01	3,035,786
1.93E-10	0	8.86E-01	2,981,798
1.93E-10	0	5.22E-01	3,034,989
1.94E-10	30.4	1.32E-02	3,009,682
1.94E-10	25.3	3.20E-02	3,036,702
1.94E-10	13.8	1.71E-01	3,036,702
1.94E-10	18.4	9.87E-02	3,035,066
1.94E-10	0	1.00E+00	2,272,216
1.95E-10	28	1.75E-02	3,037,499
1.96E-10	7.3	3.10E-01	2,992,793
1.98E-10	0	5.66E-01	3,035,786
1.98E-10	12.4	1.96E-01	3,037,499
1.99E-10	0	6.39E-01	3,034,504
2.02E-10	1.7	4.38E-01	3,034,989
2.03E-10	3.7	3.91E-01	3,020,017
2.04E-10	3.3	4.00E-01	3,031,459
2.04E-10	0	7.23E-01	3,036,702
2.05E-10	0	7.32E-01	3,037,499
2.05E-10	16.8	1.24E-01	3,019,240
2.06E-10	5.5	3.48E-01	3,036,702

2.06E-10	0	6.39E-01	3,020,755
2.06E-10	0	8.42E-01	3,037,499
2.06E-10	0	6.64E-01	3,036,702
2.06E-10	36.7	1.54E-03	3,034,230
2.07E-10	0	7.49E-01	2,984,527
2.10E-10	12.4	2.01E-01	3,028,138
2.10E-10	10.1	2.46E-01	3,034,989
2.12E-10	0	8.23E-01	3,023,247
2.12E-10	0	7.86E-01	3,032,030
2.13E-10	0	7.96E-01	3,018,241
2.13E-10	0	7.24E-01	2,997,599
2.15E-10	0	5.27E-01	3,024,960
2.15E-10	0	6.86E-01	3,037,499
2.17E-10	22.8	4.87E-02	3,037,499
2.18E-10	0	6.32E-01	3,037,499
2.18E-10	0	5.50E-01	3,036,702
2.19E-10	0	4.85E-01	2,980,456
2.21E-10	14.3	1.68E-01	3,018,071
2.21E-10	0	6.97E-01	2,993,654
2.21E-10	0	9.77E-01	3,016,213
2.21E-10	12.2	2.03E-01	3,036,158
2.21E-10	0	8.35E-01	3,036,702
2.24E-10	0	6.29E-01	3,037,499
2.24E-10	8.2	2.96E-01	3,009,498
2.25E-10	0	5.50E-01	3,034,989
2.26E-10	0	8.81E-01	3,021,552
2.28E-10	22	5.69E-02	3,036,702
2.28E-10	21.7	5.99E-02	3,036,702
2.30E-10	0	5.98E-01	3,011,203
2.30E-10	0	9.96E-01	3,037,499
2.33E-10	2.9	4.09E-01	3,036,702
2.33E-10	31.8	1.59E-02	2,997,329
2.34E-10	0	9.47E-01	3,036,702
2.37E-10	0	6.21E-01	3,037,499
2.37E-10	4.6	3.69E-01	3,024,163
2.37E-10	3.4	3.98E-01	3,037,499
2.39E-10	6.6	3.20E-01	3,037,499
2.39E-10	0	8.74E-01	3,037,499
2.40E-10	22.6	5.18E-02	3,035,786
2.41E-10	0	5.18E-01	3,010,513
2.44E-10	0	5.57E-01	3,035,242
2.45E-10	6.3	3.28E-01	3,035,786
2.45E-10	0	5.30E-01	3,024,960
2.46E-10	11.8	2.38E-01	2,955,312
2.46E-10	18.4	9.98E-02	3,036,158
2.48E-10	2.8	4.14E-01	3,008,726
2.49E-10	0	7.18E-01	3,035,786
2.49E-10	0	9.33E-01	3,036,158

2.49E-10	14.6	1.60E-01	3,032,556
2.50E-10	5.8	3.41E-01	3,035,786
2.51E-10	0	9.90E-01	3,014,348
2.51E-10	0	9.24E-01	3,036,955
2.53E-10	19.5	8.42E-02	3,035,786
2.53E-10	0	7.50E-01	3,035,066
2.54E-10	21.7	5.97E-02	3,036,702
2.56E-10	5.3	3.53E-01	3,033,840
2.56E-10	13.5	1.83E-01	3,017,704
2.56E-10	0	9.73E-01	3,035,788
2.57E-10	12.2	2.98E-01	2,870,804
2.57E-10	13.2	1.85E-01	3,023,619
2.59E-10	0	6.99E-01	3,035,786
2.59E-10	0	9.64E-01	2,581,318
2.60E-10	9.6	2.62E-01	3,019,936
2.61E-10	0	8.04E-01	3,023,265
2.62E-10	23.6	4.34E-02	3,036,702
2.67E-10	0	6.17E-01	3,037,499
2.68E-10	0	8.13E-01	3,022,439
2.69E-10	0	7.82E-01	2,950,379
2.70E-10	19.6	8.84E-02	3,028,218
2.70E-10	3.8	3.89E-01	3,012,107
2.72E-10	0	6.25E-01	3,033,686
2.72E-10	22.8	4.99E-02	3,036,702
2.73E-10	22.1	5.61E-02	3,035,786
2.74E-10	0	7.51E-01	2,891,467
2.76E-10	0	8.78E-01	2,861,824
2.79E-10	0	6.18E-01	2,141,831
2.79E-10	5.4	3.61E-01	2,995,452
2.80E-10	0	5.71E-01	3,037,499
2.80E-10	0	6.41E-01	2,995,653
2.81E-10	0	7.16E-01	3,036,702
2.84E-10	0	4.93E-01	3,033,547
2.87E-10	11.6	2.16E-01	3,036,585
2.90E-10	1.8	4.35E-01	3,037,499
2.90E-10	1	4.55E-01	3,035,786
2.91E-10	0	6.06E-01	3,037,499
2.91E-10	0	5.42E-01	3,037,499
2.96E-10	18.9	9.45E-02	3,021,301
2.96E-10	14.5	1.56E-01	3,037,499
2.96E-10	0	5.34E-01	3,034,075
2.96E-10	0	7.99E-01	2,990,146
2.97E-10	0.3	4.71E-01	3,037,499
2.98E-10	0	9.68E-01	3,037,499
2.99E-10	0	8.62E-01	3,035,786
3.00E-10	0	8.74E-01	3,036,702
3.05E-10	6.6	3.22E-01	3,036,702
3.05E-10	14.7	1.55E-01	3,035,786

3.06E-10	0.4	4.67E-01	3,037,499
3.07E-10	0	7.02E-01	3,036,702
3.08E-10	0	6.73E-01	3,036,158
3.08E-10	0	8.52E-01	3,037,499
3.08E-10	0	9.33E-01	3,000,868
3.09E-10	5.1	3.57E-01	3,035,786
3.10E-10	26.4	2.54E-02	3,036,702
3.11E-10	0	5.13E-01	3,036,702
3.15E-10	0	7.82E-01	3,035,353
3.16E-10	0	5.59E-01	3,004,065
3.16E-10	0	5.69E-01	3,036,585
3.16E-10	7.4	3.07E-01	3,022,450
3.19E-10	0	9.12E-01	3,011,376
3.21E-10	5	3.63E-01	3,013,726
3.22E-10	23.7	4.42E-02	3,034,989
3.27E-10	13.2	1.82E-01	3,035,786
3.28E-10	0	8.55E-01	3,037,499
3.30E-10	0	5.65E-01	2,997,268
3.31E-10	14.5	1.57E-01	3,037,499
3.32E-10	13.3	1.80E-01	3,035,786
3.34E-10	12.4	1.97E-01	3,000,868
3.34E-10	2.4	4.23E-01	3,020,755
3.35E-10	0	9.38E-01	3,030,578
3.36E-10	0	7.54E-01	3,037,499
3.36E-10	6.3	3.28E-01	3,037,499
3.37E-10	0	7.79E-01	3,034,989
3.39E-10	3.2	4.01E-01	3,035,786
3.42E-10	0	6.83E-01	3,027,547
3.43E-10	10.3	2.38E-01	3,037,499
3.44E-10	0	8.58E-01	3,037,499
3.45E-10	5.8	3.40E-01	3,037,499
3.46E-10	9	2.72E-01	3,019,119
3.48E-10	20.6	7.20E-02	3,035,786
3.50E-10	0	5.33E-01	2,982,356
3.52E-10	11.3	2.23E-01	3,032,323
3.53E-10	0	7.76E-01	3,037,499
3.55E-10	20.2	7.48E-02	3,037,499
3.56E-10	10.2	2.45E-01	3,019,978
3.58E-10	24.2	3.90E-02	3,036,702
3.59E-10	18.2	1.32E-01	2,978,081
3.60E-10	26.2	2.66E-02	3,036,702
3.62E-10	5.3	3.52E-01	3,036,702
3.62E-10	0	7.81E-01	3,036,955
3.63E-10	17.2	1.14E-01	3,037,499
3.66E-10	0	9.59E-01	3,036,702
3.67E-10	0	8.86E-01	3,035,786
3.68E-10	13.4	1.78E-01	3,036,702
3.70E-10	17.2	1.13E-01	3,037,499

3.71E-10	0	7.38E-01	3,037,499
3.71E-10	8.6	2.76E-01	3,035,786
3.74E-10	16.4	1.29E-01	3,036,158
3.78E-10	0	9.85E-01	3,035,786
3.80E-10	26.2	3.31E-02	3,013,580
3.80E-10	14.6	1.57E-01	3,035,786
3.82E-10	7.2	3.07E-01	3,036,702
3.84E-10	0	1.00E+00	2,272,216
3.84E-10	0	9.61E-01	3,005,081
3.85E-10	0	9.37E-01	3,036,332
3.85E-10	11.6	2.12E-01	3,037,499
3.87E-10	0	7.32E-01	3,024,163
3.87E-10	1.9	4.33E-01	3,035,786
3.91E-10	14.4	2.21E-01	2,951,440
3.92E-10	4.8	3.66E-01	3,016,527
4.00E-10	0	9.59E-01	3,036,702
4.02E-10	0	6.68E-01	3,029,814
4.02E-10	22.5	5.27E-02	3,036,702
4.04E-10	5.5	3.47E-01	3,037,499
4.05E-10	10.9	2.28E-01	3,021,382
4.06E-10	14.4	1.61E-01	3,036,332
4.07E-10	0.7	4.60E-01	3,037,499
4.08E-10	0	8.92E-01	3,037,499
4.10E-10	0	6.73E-01	3,037,499
4.11E-10	0.2	4.72E-01	3,016,120
4.12E-10	0	6.29E-01	3,035,242
4.12E-10	25.9	5.31E-02	2,984,084
4.17E-10	27.5	1.93E-02	3,037,499
4.20E-10	0	6.73E-01	3,037,499
4.20E-10	33.1	1.18E-02	2,956,820
4.21E-10	10.4	2.37E-01	3,034,230
4.23E-10	4.5	3.70E-01	3,036,702
4.25E-10	0	8.01E-01	3,029,787
4.27E-10	11.5	2.28E-01	2,575,131
4.27E-10	0	8.62E-01	3,032,556
4.27E-10	0	5.00E-01	3,036,955
4.30E-10	0	8.75E-01	2,948,801
4.32E-10	10.1	2.43E-01	3,035,786
4.33E-10	10.6	2.34E-01	3,036,702
4.34E-10	0	7.26E-01	3,037,499
4.35E-10	0	8.47E-01	3,036,702
4.36E-10	7	3.66E-01	2,152,802
4.43E-10	12.9	1.91E-01	3,031,119
4.43E-10	15.5	1.46E-01	3,020,270
4.46E-10	0	9.15E-01	3,023,247
4.49E-10	0.5	4.66E-01	3,019,708
4.50E-10	16.2	1.35E-01	3,033,752
4.55E-10	13.5	1.76E-01	3,024,960

4.56E-10	24.4	6.79E-02	2,884,233
4.60E-10	0	5.85E-01	3,034,269
4.60E-10	0	9.53E-01	3,037,499
4.62E-10	4.4	3.73E-01	3,035,786
4.63E-10	14.2	2.24E-01	2,948,566
4.63E-10	0	5.06E-01	3,034,230
4.66E-10	0	6.84E-01	3,033,316
4.69E-10	21.2	6.79E-02	3,029,534
4.70E-10	17.1	1.18E-01	3,024,163
4.70E-10	22.2	5.53E-02	3,035,786
4.72E-10	0	5.13E-01	3,033,353
4.76E-10	15.9	1.36E-01	2,998,922
4.77E-10	10.7	2.90E-01	2,949,752
4.77E-10	20	7.97E-02	3,022,527
4.78E-10	1	4.54E-01	3,036,955
4.79E-10	0	7.32E-01	651,521
4.82E-10	0	9.10E-01	3,036,158
4.87E-10	13.1	2.04E-01	3,016,750
4.89E-10	18.2	1.03E-01	3,036,158
4.92E-10	0.4	4.68E-01	3,034,756
4.92E-10	0	9.78E-01	3,036,702
4.94E-10	3.4	4.13E-01	2,937,394
5.00E-10	0	6.21E-01	2,997,741
5.02E-10	17.7	1.39E-01	2,924,143
5.03E-10	39.4	6.56E-04	3,022,450
5.06E-10	5	3.62E-01	3,027,251
5.07E-10	0	7.70E-01	3,036,657
5.08E-10	26.6	2.35E-02	3,037,499
5.12E-10	19.9	8.71E-02	3,033,500
5.16E-10	0	5.95E-01	3,035,066
5.19E-10	0.8	4.59E-01	3,037,499
5.19E-10	0	6.72E-01	2,998,435
5.20E-10	0	1.00E+00	2,272,216
5.29E-10	21.6	6.39E-02	3,034,212
5.32E-10	26.2	2.59E-02	3,037,499
5.37E-10	0	5.36E-01	3,003,951
5.37E-10	0	4.79E-01	3,037,499
5.42E-10	8.4	2.85E-01	3,033,547
5.44E-10	0	8.26E-01	3,037,499
5.44E-10	0	7.50E-01	2,847,135
5.46E-10	1.8	4.36E-01	3,037,499
5.46E-10	13.1	1.82E-01	3,037,499
5.47E-10	9.2	2.62E-01	3,037,499
5.47E-10	0	7.24E-01	3,036,702
5.50E-10	22.3	5.60E-02	3,024,163
5.55E-10	6.2	3.31E-01	3,037,499
5.58E-10	8.9	2.69E-01	3,037,499
5.59E-10	8.2	3.28E-01	2,948,340

5.72E-10	29.1	4.97E-02	2,948,133
5.75E-10	24.1	4.22E-02	2,998,358
5.78E-10	0	5.67E-01	2,998,358
5.81E-10	0	5.39E-01	3,036,702
5.85E-10	23.2	4.57E-02	3,037,499
5.86E-10	0	7.94E-01	3,037,499
5.86E-10	24.5	3.76E-02	3,032,982
5.87E-10	0	6.93E-01	3,035,786
5.89E-10	0	7.60E-01	3,016,995
5.89E-10	0	4.91E-01	3,020,622
5.90E-10	0	6.15E-01	3,035,242
5.98E-10	0	7.50E-01	3,037,499
5.98E-10	16.3	1.28E-01	3,036,702
6.03E-10	24.2	3.90E-02	3,035,786
6.04E-10	3.3	3.98E-01	3,037,499
6.11E-10	0	6.57E-01	3,034,989
6.15E-10	19.7	8.50E-02	3,020,814
6.16E-10	0	6.14E-01	3,037,499
6.16E-10	0	5.26E-01	3,037,499
6.18E-10	0	5.75E-01	3,035,880
6.19E-10	17.3	1.22E-01	3,016,631
6.23E-10	22.1	5.61E-02	3,035,679
6.35E-10	0	7.99E-01	3,037,499
6.46E-10	0	9.47E-01	3,035,679
6.47E-10	0	7.39E-01	3,035,242
6.49E-10	0	7.40E-01	3,036,702
6.52E-10	10.8	2.45E-01	2,996,034
6.53E-10	13.2	1.80E-01	3,037,499
6.55E-10	0	8.52E-01	3,034,269
6.55E-10	7.4	3.04E-01	3,035,786
6.56E-10	25	3.29E-02	3,037,499
6.62E-10	5.6	3.45E-01	3,035,786
6.67E-10	0	6.01E-01	3,037,499
6.83E-10	0	9.62E-01	2,995,324
6.84E-10	0	7.12E-01	3,036,702
6.86E-10	14.2	1.79E-01	3,017,092
6.90E-10	0	7.23E-01	3,032,323
6.91E-10	0	8.58E-01	3,037,499
6.99E-10	10.5	2.36E-01	3,035,786
7.05E-10	0	8.13E-01	2,867,659
7.05E-10	0	5.39E-01	2,997,544
7.12E-10	2.2	4.25E-01	3,037,499
7.13E-10	8.8	2.76E-01	3,031,603
7.18E-10	0	5.59E-01	3,036,158
7.25E-10	22.4	6.13E-02	3,012,031
7.27E-10	0	7.71E-01	3,033,316
7.28E-10	0	5.17E-01	3,036,702
7.28E-10	0	5.88E-01	3,036,702

7.32E-10	0	5.98E-01	3,037,499
7.37E-10	26.4	2.45E-02	3,037,499
7.40E-10	11.2	2.22E-01	3,035,553
7.48E-10	4.8	3.66E-01	3,029,854
7.49E-10	18.5	2.37E-01	2,864,858
7.52E-10	41.6	7.16E-02	2,819,190
7.52E-10	0	6.22E-01	3,037,499
7.54E-10	18.5	9.52E-02	3,037,499
7.55E-10	0	8.77E-01	3,035,066
7.57E-10	0	6.09E-01	3,035,804
7.57E-10	0	5.23E-01	2,982,077
7.58E-10	0.9	4.55E-01	2,977,436
7.59E-10	0	8.76E-01	3,035,786
7.59E-10	0	9.88E-01	3,036,702
7.62E-10	0	9.12E-01	3,035,786
7.64E-10	0	8.57E-01	3,036,702
7.67E-10	0.8	4.58E-01	3,013,546
7.68E-10	9.3	2.67E-01	3,017,733
7.68E-10	13.2	1.81E-01	3,037,499
7.68E-10	0	9.03E-01	2,914,187
7.69E-10	22.9	9.85E-02	2,985,186
7.70E-10	0	5.80E-01	3,036,702
7.70E-10	0	9.48E-01	3,000,474
7.71E-10	0	6.94E-01	3,011,890
7.74E-10	26.9	2.35E-02	3,032,517
7.75E-10	0	8.36E-01	3,034,989
7.76E-10	0	6.30E-01	3,036,702
7.76E-10	9.9	2.48E-01	3,035,066
7.82E-10	0	8.82E-01	3,036,955
7.85E-10	0	7.38E-01	3,036,955
7.95E-10	0	7.61E-01	3,034,989
7.98E-10	0	1.00E+00	2,272,216
8.00E-10	15.2	1.45E-01	3,037,499
8.03E-10	16.8	1.23E-01	3,035,242
8.08E-10	18.4	9.86E-02	3,036,702
8.13E-10	21.2	6.39E-02	3,037,499
8.13E-10	21.9	5.85E-02	3,035,786
8.17E-10	28.8	1.50E-02	3,036,612
8.23E-10	16.4	1.25E-01	3,037,499
8.24E-10	8.3	2.84E-01	3,033,353
8.24E-10	2	4.30E-01	3,035,242
8.25E-10	1.1	4.51E-01	3,037,499
8.29E-10	0	7.28E-01	3,037,499
8.30E-10	6.6	3.23E-01	3,035,416
8.31E-10	24.3	4.97E-02	3,008,701
8.33E-10	15.7	1.38E-01	3,032,666
8.53E-10	22.2	7.35E-02	2,993,136
8.53E-10	8.3	2.83E-01	3,036,955

8.62E-10	14.1	1.67E-01	3,034,989
8.62E-10	0	5.08E-01	3,033,296
8.68E-10	0	7.76E-01	3,024,163
8.71E-10	3.1	4.03E-01	3,035,679
8.74E-10	0	7.48E-01	2,996,816
8.75E-10	0	6.56E-01	3,034,269
8.76E-10	4.4	3.74E-01	3,037,499
8.76E-10	6.9	3.14E-01	3,036,702
8.78E-10	0	8.41E-01	3,036,702
8.79E-10	2.3	4.23E-01	3,037,499
8.85E-10	0	9.17E-01	3,037,499
8.87E-10	0	6.34E-01	3,017,783
8.96E-10	0	4.85E-01	3,021,301
8.97E-10	0	6.37E-01	3,037,499
9.01E-10	0	4.91E-01	3,037,499
9.01E-10	17.7	1.10E-01	3,023,247
9.01E-10	0	8.39E-01	3,037,499
9.03E-10	0	8.69E-01	3,035,786
9.10E-10	12.2	2.12E-01	3,022,856
9.12E-10	6.1	3.48E-01	2,990,725
9.14E-10	0	6.01E-01	3,035,786
9.14E-10	0	8.93E-01	2,988,541
9.14E-10	0	6.60E-01	3,024,416
9.23E-10	2.2	4.25E-01	3,034,756
9.27E-10	15.4	1.52E-01	3,012,861
9.28E-10	1.4	4.44E-01	3,035,786
9.31E-10	0	6.39E-01	3,034,989
9.33E-10	0	9.27E-01	3,031,658
9.34E-10	0	6.58E-01	3,031,658
9.34E-10	27.9	1.83E-02	3,036,955
9.38E-10	7.8	3.21E-01	2,936,691
9.40E-10	2.6	4.15E-01	3,036,702
9.45E-10	9.3	2.62E-01	3,036,702
9.52E-10	0	9.33E-01	2,977,790
9.54E-10	4.4	3.74E-01	3,036,702
9.54E-10	16.3	1.33E-01	3,034,893
9.59E-10	1.8	4.36E-01	3,026,131
9.63E-10	19.8	9.13E-02	3,014,256
9.64E-10	0	1.00E+00	2,272,216
9.64E-10	0	6.44E-01	2,834,207
9.65E-10	5.3	3.53E-01	3,037,499
9.75E-10	26	2.67E-02	3,037,499
9.77E-10	0	5.54E-01	3,037,499
9.84E-10	0	7.16E-01	3,022,360
9.93E-10	0	6.36E-01	3,035,786
1.01E-09	23.5	4.46E-02	3,036,702
1.01E-09	20.9	8.67E-02	3,001,635
1.01E-09	0	8.04E-01	3,036,955

1.01E-09	8.6	2.84E-01	3,021,554
1.02E-09	0	7.01E-01	3,037,499
1.03E-09	0	7.12E-01	3,034,230
1.03E-09	0	7.93E-01	3,034,989
1.04E-09	0.8	4.59E-01	3,025,101
1.05E-09	0	5.54E-01	3,036,158
1.05E-09	0	5.25E-01	3,024,960
1.06E-09	0	5.30E-01	3,018,668
1.06E-09	0	8.22E-01	3,035,066
1.06E-09	11.4	2.17E-01	3,036,702
1.06E-09	0	7.48E-01	3,036,702
1.06E-09	0	6.89E-01	3,024,960
1.07E-09	17.6	1.10E-01	3,035,066
1.07E-09	0	6.56E-01	3,020,755
1.07E-09	3.5	3.94E-01	3,035,786
1.08E-09	38	2.47E-02	2,875,934
1.09E-09	12.4	1.98E-01	3,023,247
1.09E-09	27.6	9.75E-02	2,859,265
1.09E-09	0	9.82E-01	2,992,610
1.10E-09	11.7	2.10E-01	3,037,499
1.10E-09	0	7.85E-01	3,037,499
1.11E-09	0	7.41E-01	3,037,499
1.12E-09	0	6.78E-01	3,018,726
1.12E-09	0	7.05E-01	3,037,499
1.12E-09	5	3.59E-01	3,036,955
1.12E-09	19.8	9.28E-02	2,551,741
1.13E-09	4.6	3.68E-01	3,036,702
1.13E-09	0	7.09E-01	3,037,499
1.14E-09	0	7.43E-01	3,035,786
1.14E-09	11.9	2.06E-01	3,036,702
1.14E-09	0	3.82E-01	2,713,337
1.14E-09	0	5.26E-01	3,007,829
1.15E-09	2.3	4.23E-01	3,036,702
1.16E-09	18	1.07E-01	3,033,296
1.16E-09	0	6.70E-01	3,037,499
1.16E-09	26.3	6.54E-02	2,950,899
1.18E-09	0	6.20E-01	3,019,130
1.18E-09	18.2	9.98E-02	3,037,499
1.19E-09	2.1	4.29E-01	3,020,387
1.20E-09	11.4	2.15E-01	3,037,499
1.22E-09	0	5.42E-01	3,036,702
1.22E-09	0	5.54E-01	3,013,117
1.22E-09	0	6.70E-01	2,996,722
1.23E-09	0	6.27E-01	3,033,316
1.23E-09	15.8	1.36E-01	3,037,499
1.23E-09	0	7.05E-01	2,713,337
1.24E-09	0	5.30E-01	3,033,353
1.25E-09	0	8.43E-01	2,922,448

1.25E-09	0	5.68E-01	3,037,499
1.25E-09	0	9.14E-01	3,035,786
1.26E-09	0	6.16E-01	3,034,872
1.26E-09	19.5	8.32E-02	3,037,499
1.26E-09	1.6	4.41E-01	3,002,421
1.27E-09	16	1.32E-01	3,037,499
1.27E-09	0	9.99E-01	3,037,499
1.28E-09	27.2	2.15E-02	3,035,786
1.29E-09	9.2	2.63E-01	3,037,499
1.29E-09	1.8	4.36E-01	3,005,448
1.30E-09	0	7.35E-01	2,875,486
1.30E-09	6.5	3.30E-01	3,017,463
1.30E-09	0	8.87E-01	3,036,702
1.30E-09	0	5.83E-01	3,037,499
1.30E-09	1.7	4.39E-01	2,859,882
1.30E-09	31.9	2.32E-02	2,988,740
1.30E-09	15	1.48E-01	3,037,499
1.31E-09	0	5.13E-01	3,036,702
1.32E-09	18.5	1.41E-01	2,975,148
1.33E-09	0	8.62E-01	2,985,140
1.34E-09	0	9.01E-01	2,991,761
1.34E-09	29.2	1.73E-02	3,006,525
1.35E-09	0	6.95E-01	2,958,881
1.35E-09	15.4	1.49E-01	3,018,344
1.35E-09	16.9	1.18E-01	3,037,499
1.35E-09	1.1	4.52E-01	3,036,702
1.36E-09	4.7	3.66E-01	3,036,702
1.36E-09	0	8.60E-01	3,024,960
1.38E-09	21.2	6.50E-02	3,036,702
1.39E-09	24.8	3.38E-02	3,037,499
1.39E-09	0	6.89E-01	3,037,499
1.40E-09	17.1	1.59E-01	2,975,582
1.40E-09	7.9	2.95E-01	3,034,091
1.40E-09	24.1	4.11E-02	3,036,158
1.41E-09	3.4	3.98E-01	3,034,989
1.41E-09	0	7.12E-01	3,032,666
1.41E-09	0	6.45E-01	3,037,499
1.42E-09	14.2	1.62E-01	3,037,499
1.42E-09	0	6.66E-01	3,018,431
1.43E-09	0	9.83E-01	3,037,499
1.43E-09	3.5	3.94E-01	3,037,499
1.44E-09	12.9	1.86E-01	3,037,499
1.44E-09	0	9.88E-01	3,034,989
1.45E-09	9.8	2.65E-01	2,999,725
1.45E-09	0.2	4.73E-01	3,034,230
1.46E-09	27.9	4.50E-02	2,965,930
1.46E-09	0	8.98E-01	3,037,499
1.46E-09	16.3	1.45E-01	3,010,542

1.47E-09	0	9.14E-01	3,024,046
1.47E-09	0	9.77E-01	3,037,499
1.48E-09	6	3.45E-01	3,024,031
1.49E-09	21.5	6.19E-02	3,036,702
1.49E-09	0	9.16E-01	3,036,955
1.49E-09	0	8.85E-01	3,037,499
1.49E-09	0	5.91E-01	3,032,284
1.50E-09	0	7.84E-01	3,028,583
1.51E-09	0	9.64E-01	3,024,416
1.51E-09	1.8	4.36E-01	3,019,064
1.51E-09	24.3	3.75E-02	3,037,499
1.52E-09	0	9.67E-01	3,035,786
1.52E-09	0	6.20E-01	3,023,247
1.53E-09	0	8.54E-01	3,025,737
1.53E-09	15.7	1.40E-01	3,034,989
1.54E-09	16.7	1.30E-01	3,030,714
1.54E-09	19.2	8.75E-02	3,035,786
1.55E-09	10.8	2.30E-01	3,035,242
1.55E-09	0	4.93E-01	3,008,547
1.55E-09	0	4.82E-01	3,037,499
1.56E-09	11.6	2.12E-01	3,037,499
1.57E-09	20.5	7.30E-02	3,035,786
1.57E-09	0.3	4.70E-01	3,027,523
1.57E-09	0	6.56E-01	3,030,172
1.57E-09	0	6.29E-01	3,037,499
1.58E-09	1.8	4.36E-01	3,035,671
1.58E-09	0	6.10E-01	3,037,499
1.59E-09	0	5.48E-01	3,036,702
1.59E-09	0	7.89E-01	2,953,845
1.59E-09	15.1	1.46E-01	3,037,499
1.60E-09	3.6	3.92E-01	3,032,809
1.62E-09	0	9.81E-01	3,035,804
1.62E-09	27.9	1.78E-02	3,037,499
1.63E-09	3.2	4.02E-01	3,036,702
1.64E-09	15.4	1.43E-01	3,035,553
1.64E-09	2.3	4.26E-01	2,955,287
1.64E-09	12.9	1.90E-01	3,021,301
1.64E-09	27.8	2.23E-02	3,015,350
1.65E-09	1.7	4.38E-01	3,037,499
1.65E-09	0	8.28E-01	3,037,499
1.65E-09	0	7.39E-01	3,032,924
1.67E-09	0	4.98E-01	3,037,499
1.68E-09	0	7.62E-01	3,035,786
1.68E-09	0	6.99E-01	2,899,330
1.69E-09	13.4	1.78E-01	3,037,499
1.70E-09	0	5.41E-01	3,037,499
1.70E-09	22.6	5.38E-02	3,032,809
1.71E-09	0	4.81E-01	3,037,499

1.71E-09	28.1	1.70E-02	3,037,499
1.71E-09	0	9.25E-01	3,037,499
1.71E-09	0	7.72E-01	3,033,316
1.71E-09	12.4	2.05E-01	3,016,064
1.72E-09	7.5	3.01E-01	3,036,702
1.72E-09	8.4	2.81E-01	3,036,955
1.73E-09	10.4	2.40E-01	3,034,445
1.76E-09	0	7.23E-01	3,036,702
1.76E-09	18.9	9.82E-02	3,029,838
1.78E-09	44.1	5.49E-05	3,037,499
1.80E-09	3.2	4.05E-01	3,008,784
1.81E-09	0	5.18E-01	3,037,499
1.81E-09	3.5	3.93E-01	3,037,499
1.82E-09	5.8	3.40E-01	3,037,499
1.82E-09	0	5.92E-01	2,816,039
1.83E-09	0	5.31E-01	2,965,374
1.84E-09	1	4.53E-01	3,034,269
1.84E-09	0	9.94E-01	3,035,786
1.85E-09	5.8	3.55E-01	3,016,452
1.86E-09	9.1	2.66E-01	3,000,868
1.86E-09	13.9	1.68E-01	3,036,702
1.86E-09	12.8	2.41E-01	2,979,418
1.87E-09	0	9.31E-01	3,020,777
1.88E-09	16.6	1.24E-01	3,036,702
1.89E-09	2.3	4.25E-01	2,555,644
1.90E-09	14.4	1.60E-01	3,036,955
1.91E-09	0	6.41E-01	3,007,934
1.92E-09	0	8.99E-01	2,992,956
1.94E-09	0	6.39E-01	3,037,499
1.94E-09	22.5	5.30E-02	3,036,702
1.94E-09	6.4	3.27E-01	3,036,955
1.95E-09	3.6	3.94E-01	3,026,519
1.98E-09	0	6.54E-01	3,037,499
1.98E-09	5.3	3.51E-01	3,037,499
1.98E-09	11.1	2.27E-01	3,034,091
1.98E-09	0	9.58E-01	3,036,702
2.00E-09	0	1.00E+00	2,965,573
2.01E-09	1.4	4.45E-01	3,030,018
2.03E-09	0	9.24E-01	3,036,955
2.03E-09	0	9.85E-01	2,977,135
2.03E-09	38.8	3.34E-02	2,857,761
2.04E-09	0.7	4.61E-01	3,036,955
2.04E-09	24.8	3.42E-02	3,037,499
2.04E-09	13.6	1.78E-01	3,020,814
2.05E-09	23.9	4.36E-02	2,997,638
2.06E-09	0	8.49E-01	3,019,996
2.06E-09	0	8.51E-01	3,035,786
2.06E-09	11.1	2.23E-01	3,037,499

2.06E-09	4.7	3.67E-01	3,034,230
2.07E-09	0	5.29E-01	3,036,702
2.09E-09	15.1	1.47E-01	3,037,499
2.09E-09	2.6	4.17E-01	3,000,868
2.11E-09	0	6.71E-01	2,939,399
2.12E-09	15.7	1.46E-01	3,023,850
2.12E-09	0	5.84E-01	3,036,702
2.13E-09	9.6	2.55E-01	3,035,786
2.14E-09	19	8.85E-02	3,037,499
2.15E-09	0	9.78E-01	2,983,011
2.16E-09	4.8	3.64E-01	3,037,499
2.17E-09	8.1	2.86E-01	3,037,499
2.17E-09	0	7.61E-01	3,037,499
2.18E-09	24.9	3.49E-02	3,023,247
2.19E-09	3.7	3.90E-01	3,037,499
2.21E-09	0	6.28E-01	3,037,499
2.22E-09	21.9	5.81E-02	3,035,786
2.22E-09	0	7.86E-01	2,876,408
2.22E-09	0	9.15E-01	2,913,381
2.25E-09	10	2.51E-01	3,026,367
2.27E-09	28	3.42E-02	2,982,781
2.27E-09	0	9.75E-01	3,035,788
2.27E-09	24.9	3.61E-02	3,024,046
2.29E-09	0	5.32E-01	2,988,874
2.29E-09	26.8	2.36E-02	3,036,612
2.29E-09	13.5	1.77E-01	3,036,955
2.30E-09	6	3.37E-01	3,034,989
2.30E-09	14.8	1.52E-01	3,037,499
2.31E-09	0	8.60E-01	3,034,522
2.32E-09	0	5.06E-01	3,017,065
2.33E-09	9.1	2.66E-01	3,000,868
2.33E-09	0	5.15E-01	3,023,247
2.34E-09	0	5.01E-01	3,037,499
2.35E-09	16.3	1.28E-01	3,037,499
2.35E-09	6.3	3.31E-01	3,020,832
2.36E-09	0	5.07E-01	2,993,880
2.36E-09	0	9.00E-01	3,035,786
2.36E-09	0	8.52E-01	3,035,679
2.38E-09	0	6.65E-01	3,024,960
2.42E-09	7.3	3.07E-01	3,035,679
2.43E-09	33.3	4.61E-03	3,000,868
2.45E-09	9.8	2.51E-01	3,024,960
2.46E-09	22.3	5.31E-02	3,037,499
2.47E-09	0	4.94E-01	3,035,786
2.49E-09	13.3	1.80E-01	3,000,868
2.51E-09	0	9.76E-01	3,036,702
2.51E-09	2.5	4.18E-01	3,019,170
2.54E-09	22.9	4.93E-02	3,035,679

2.55E-09	0	8.24E-01	3,034,671
2.55E-09	1.2	4.48E-01	3,037,499
2.56E-09	0	7.65E-01	3,028,937
2.56E-09	13.2	1.82E-01	3,036,955
2.57E-09	12.8	1.89E-01	3,037,499
2.57E-09	13.6	2.00E-01	2,957,734
2.58E-09	0	8.45E-01	3,035,679
2.59E-09	0	7.24E-01	3,037,499
2.60E-09	0	8.39E-01	3,037,499
2.62E-09	0	4.82E-01	3,019,978
2.63E-09	0	7.93E-01	2,863,515
2.67E-09	0	6.83E-01	3,033,294
2.69E-09	19.5	8.61E-02	2,999,155
2.69E-09	0	7.24E-01	3,004,796
2.71E-09	0	5.18E-01	3,023,159
2.72E-09	11.7	2.12E-01	3,036,702
2.72E-09	0	6.33E-01	3,018,273
2.72E-09	0	5.27E-01	2,960,707
2.73E-09	25.6	2.97E-02	3,024,960
2.75E-09	8.3	2.84E-01	3,036,702
2.75E-09	0.3	4.70E-01	3,035,786
2.75E-09	0	6.65E-01	3,037,499
2.75E-09	29.8	1.14E-02	3,037,499
2.76E-09	0	6.25E-01	3,035,786
2.76E-09	8.3	2.84E-01	3,036,702
2.80E-09	0	6.93E-01	3,037,499
2.84E-09	21.9	5.69E-02	3,037,499
2.86E-09	0	6.28E-01	3,035,786
2.87E-09	24.9	5.82E-02	2,998,558
2.87E-09	0	8.89E-01	3,021,908
2.90E-09	0	6.54E-01	3,035,786
2.91E-09	22.5	5.36E-02	3,023,247
2.92E-09	0	7.45E-01	3,034,269
2.93E-09	0	5.81E-01	2,126,682
2.97E-09	0	7.00E-01	3,037,499
2.97E-09	0	6.61E-01	3,010,434
2.97E-09	13.6	3.04E-01	2,838,052
3.00E-09	0	7.69E-01	3,032,145
3.01E-09	17.9	1.05E-01	3,035,786
3.01E-09	18.7	9.46E-02	3,036,702
3.02E-09	2.6	4.16E-01	3,037,499
3.04E-09	0	7.44E-01	3,037,499
3.06E-09	32.3	4.46E-02	2,884,069
3.08E-09	0	7.09E-01	3,035,786
3.09E-09	18	1.04E-01	3,036,702
3.10E-09	14.5	1.56E-01	3,037,499
3.10E-09	0	6.02E-01	2,990,378
3.10E-09	59.6	2.14E-02	2,787,857

3.11E-09	0	5.57E-01	3,024,960
3.11E-09	0	6.68E-01	2,976,354
3.11E-09	0	4.86E-01	3,035,894
3.13E-09	0	6.38E-01	3,037,499
3.14E-09	0	8.24E-01	2,938,616
3.15E-09	0	6.39E-01	3,022,527
3.17E-09	0	5.73E-01	3,036,702
3.17E-09	0	9.79E-01	2,998,358
3.18E-09	31.8	1.44E-02	2,985,021
3.18E-09	0	5.73E-01	3,021,552
3.22E-09	0	7.95E-01	3,037,499
3.23E-09	0.7	4.60E-01	3,036,585
3.23E-09	0	7.07E-01	3,037,499
3.26E-09	20.3	7.61E-02	2,999,155
3.26E-09	14.9	1.57E-01	3,012,287
3.28E-09	0.6	4.63E-01	3,035,786
3.28E-09	4.8	3.65E-01	3,035,553
3.28E-09	21.3	6.45E-02	3,036,702
3.30E-09	0	7.44E-01	3,035,242
3.31E-09	1.9	4.33E-01	3,037,499
3.31E-09	0	5.76E-01	3,037,499
3.32E-09	0	6.92E-01	3,035,786
3.33E-09	10.3	2.42E-01	3,022,450
3.33E-09	0.4	4.68E-01	3,014,503
3.34E-09	7.5	3.02E-01	3,035,242
3.34E-09	11	2.25E-01	3,035,671
3.36E-09	0	1.00E+00	2,272,216
3.36E-09	0	7.11E-01	3,035,786
3.37E-09	14.5	1.61E-01	3,034,989
3.38E-09	6.5	3.25E-01	3,036,702
3.40E-09	0	8.13E-01	3,000,868
3.40E-09	18	2.03E-01	2,924,835
3.40E-09	2.1	4.28E-01	3,033,043
3.43E-09	31.5	7.93E-02	2,866,117
3.45E-09	0	9.00E-01	3,033,840
3.46E-09	18.5	9.65E-02	3,035,066
3.46E-09	34.8	3.05E-03	3,034,989
3.47E-09	19.6	8.28E-02	3,035,786
3.48E-09	26.5	2.51E-02	3,036,702
3.49E-09	6.9	3.15E-01	3,037,129
3.50E-09	5.6	3.46E-01	3,036,702
3.50E-09	0	8.73E-01	3,034,989
3.53E-09	0	6.20E-01	3,032,832
3.53E-09	21.2	6.56E-02	3,036,955
3.53E-09	0	5.80E-01	3,034,230
3.54E-09	0	8.66E-01	3,036,702
3.55E-09	0	5.64E-01	2,994,751
3.55E-09	0	8.61E-01	2,883,483

3.56E-09	25.4	3.11E-02	3,036,702
3.56E-09	13.8	1.74E-01	3,033,043
3.57E-09	0	6.02E-01	3,037,499
3.57E-09	12.3	2.67E-01	2,939,938
3.58E-09	0	8.41E-01	3,030,744
3.59E-09	4.4	3.73E-01	3,035,786
3.60E-09	11.3	2.19E-01	3,037,499
3.60E-09	0	7.54E-01	3,036,955
3.60E-09	1.3	4.48E-01	3,037,499
3.62E-09	0	8.76E-01	2,941,106
3.62E-09	0	4.92E-01	3,022,527
3.62E-09	21.8	6.17E-02	3,015,126
3.63E-09	19.7	8.18E-02	3,036,955
3.63E-09	97.4	5.98E-10	2,713,337
3.64E-09	0	6.20E-01	3,013,448
3.64E-09	0	6.12E-01	3,005,323
3.65E-09	10.3	2.41E-01	3,033,353
3.68E-09	20.4	7.69E-02	3,019,978
3.69E-09	0	9.03E-01	2,874,102
3.70E-09	9.2	2.62E-01	3,037,499
3.72E-09	21.2	6.82E-02	3,032,556
3.76E-09	0	9.44E-01	3,036,955
3.76E-09	8.7	2.79E-01	3,033,294
3.76E-09	19.6	8.31E-02	3,035,786
3.80E-09	1.1	4.51E-01	1,452,619
3.82E-09	0	9.04E-01	3,034,091
3.84E-09	0	9.47E-01	3,023,014
3.87E-09	7.9	2.98E-01	3,015,850
3.90E-09	0	9.64E-01	3,036,702
3.92E-09	9.7	2.52E-01	3,037,499
3.92E-09	4.4	3.73E-01	3,037,499
3.92E-09	2.8	4.11E-01	3,036,702
3.92E-09	0	6.32E-01	2,863,990
3.96E-09	0	6.90E-01	3,032,751
3.96E-09	20	9.08E-02	3,001,993
3.99E-09	0	6.27E-01	2,934,584
4.01E-09	0	6.70E-01	3,034,989
4.02E-09	0	7.15E-01	3,000,868
4.04E-09	0	9.51E-01	2,972,716
4.10E-09	0	6.44E-01	3,037,499
4.10E-09	1.9	4.37E-01	2,938,589
4.10E-09	0	9.60E-01	3,037,499
4.11E-09	19.8	9.27E-02	2,978,192
4.13E-09	15.9	1.36E-01	3,035,786
4.13E-09	14.4	1.62E-01	3,034,989
4.13E-09	14.4	1.61E-01	3,034,989
4.17E-09	22.1	5.73E-02	3,034,989
4.23E-09	0	6.63E-01	3,036,702

4.24E-09	25.8	2.90E-02	3,036,702
4.25E-09	0	7.96E-01	3,035,786
4.28E-09	0	7.73E-01	3,024,538
4.28E-09	26.6	2.46E-02	3,000,868
4.29E-09	0	6.66E-01	3,032,556
4.29E-09	1.9	4.35E-01	2,982,015
4.30E-09	0	7.77E-01	3,037,499
4.30E-09	0.8	4.59E-01	3,020,017
4.31E-09	0	6.85E-01	3,015,311
4.33E-09	14.7	1.56E-01	3,036,702
4.33E-09	17.1	1.18E-01	2,999,155
4.33E-09	0	9.03E-01	3,037,499
4.39E-09	0	8.35E-01	3,035,066
4.40E-09	0	4.76E-01	3,010,406
4.41E-09	13.8	1.80E-01	3,014,231
4.42E-09	18.3	2.15E-01	2,770,411
4.43E-09	16.9	1.33E-01	3,014,197
4.47E-09	10.4	2.37E-01	3,037,499
4.47E-09	10.9	2.28E-01	3,036,702
4.50E-09	24.7	3.93E-02	3,028,459
4.51E-09	13.1	1.82E-01	3,037,499
4.55E-09	0	6.98E-01	3,024,960
4.57E-09	0	8.69E-01	2,937,452
4.57E-09	0	6.47E-01	3,027,475
4.65E-09	0	5.72E-01	3,037,499
4.65E-09	0	6.25E-01	3,035,786
4.66E-09	3	4.10E-01	3,009,200
4.66E-09	0	7.56E-01	2,594,665
4.67E-09	0	5.25E-01	3,035,786
4.68E-09	16.6	1.23E-01	3,037,499
4.68E-09	37	1.55E-03	3,033,043
4.68E-09	0	7.79E-01	3,031,183
4.70E-09	0	8.39E-01	3,036,702
4.71E-09	0	9.55E-01	2,965,130
4.74E-09	9.2	2.79E-01	3,024,427
4.76E-09	0	8.48E-01	3,014,871
4.78E-09	12.4	2.02E-01	3,027,923
4.79E-09	37.2	7.91E-02	2,869,656
4.79E-09	11.5	2.33E-01	2,990,201
4.80E-09	12.5	1.96E-01	3,035,786
4.80E-09	13.4	1.78E-01	3,037,499
4.81E-09	2.5	4.19E-01	3,034,989
4.82E-09	29	2.45E-02	2,990,707
4.82E-09	11.6	2.13E-01	3,035,786
4.83E-09	2.8	4.23E-01	2,838,551
4.84E-09	0	9.09E-01	3,036,702
4.86E-09	0	7.67E-01	3,037,499
4.86E-09	0	7.65E-01	3,034,989

4.86E-09	0	8.51E-01	3,032,517
4.87E-09	13.3	1.83E-01	2,998,358
4.87E-09	0	4.78E-01	3,036,702
4.87E-09	0	7.23E-01	3,024,960
4.89E-09	23.8	4.51E-02	2,992,022
4.92E-09	34.1	3.36E-03	3,037,499
4.93E-09	0	9.41E-01	3,032,556
4.93E-09	0	6.91E-01	2,925,750
4.97E-09	0	8.89E-01	3,035,553
4.97E-09	14.8	1.53E-01	3,024,960
4.98E-09	0	5.78E-01	3,034,989
4.98E-09	25.1	7.20E-02	2,921,064
5.00E-09	0	6.93E-01	3,037,499
5.06E-09	24.3	4.74E-02	3,000,580
5.07E-09	2.4	4.22E-01	3,037,499
5.07E-09	10.6	2.39E-01	3,034,075
5.07E-09	12.5	1.93E-01	3,037,499
5.08E-09	4.9	3.62E-01	3,024,960
5.08E-09	0	9.66E-01	3,036,955
5.09E-09	14.8	1.54E-01	3,035,066
5.13E-09	26.5	2.59E-02	2,988,329
5.16E-09	0	5.79E-01	3,010,220
5.17E-09	12.1	2.02E-01	3,037,499
5.24E-09	0	9.67E-01	3,013,489
5.25E-09	26.6	1.33E-01	2,863,253
5.27E-09	1.3	4.47E-01	2,961,990
5.29E-09	25.5	3.07E-02	3,036,702
5.30E-09	0	6.34E-01	2,835,923
5.32E-09	10.4	2.38E-01	3,036,702
5.32E-09	49.5	5.39E-02	2,765,456
5.34E-09	7.4	3.05E-01	3,034,989
5.34E-09	13.6	1.77E-01	3,033,353
5.36E-09	10.8	2.35E-01	3,032,468
5.39E-09	6.4	3.26E-01	3,037,499
5.39E-09	0	6.60E-01	3,033,746
5.42E-09	0	9.38E-01	3,030,807
5.43E-09	3.2	4.10E-01	2,970,130
5.44E-09	27.9	2.61E-02	3,011,374
5.45E-09	0	5.70E-01	3,035,645
5.47E-09	0	4.97E-01	3,036,955
5.48E-09	25.5	4.12E-02	2,948,942
5.48E-09	0	8.64E-01	3,035,786
5.49E-09	0	7.16E-01	3,035,786
5.49E-09	0	4.80E-01	3,012,269
5.50E-09	0	8.73E-01	3,036,702
5.52E-09	19.7	8.01E-02	3,037,499
5.52E-09	44.8	1.86E-02	2,364,179
5.52E-09	0	8.69E-01	3,035,786

5.52E-09	20.4	9.08E-02	3,002,593
5.57E-09	0	7.41E-01	3,035,786
5.60E-09	0	5.51E-01	3,002,321
5.60E-09	0	9.84E-01	3,003,561
5.62E-09	15.6	1.47E-01	2,989,675
5.63E-09	9.7	2.52E-01	3,036,955
5.63E-09	7.7	2.99E-01	3,033,433
5.65E-09	0	6.19E-01	3,037,499
5.65E-09	13.5	1.87E-01	3,025,513
5.68E-09	16.6	1.25E-01	3,035,786
5.71E-09	0	5.42E-01	2,967,208
5.72E-09	0	1.00E+00	2,272,216
5.73E-09	5.1	3.57E-01	3,037,181
5.73E-09	25.3	5.81E-02	2,976,588
5.73E-09	7	3.36E-01	2,975,226
5.75E-09	8.7	2.73E-01	3,037,499
5.75E-09	26.9	2.35E-02	3,034,989
5.80E-09	0	4.88E-01	2,713,337
5.80E-09	15	1.51E-01	3,036,702
5.82E-09	0	6.93E-01	3,036,955
5.83E-09	0	7.25E-01	3,036,158
5.84E-09	18.9	9.31E-02	3,000,324
5.85E-09	0	9.73E-01	3,019,978
5.89E-09	6.6	3.23E-01	3,036,702
5.90E-09	4.7	3.65E-01	3,037,499
5.94E-09	0	7.88E-01	3,037,499
5.96E-09	14.9	1.50E-01	3,037,499
6.01E-09	27.8	3.00E-02	3,001,163
6.04E-09	19.4	8.49E-02	3,036,702
6.08E-09	12.9	1.91E-01	3,021,983
6.08E-09	16.1	1.32E-01	3,036,955
6.10E-09	0	7.08E-01	2,999,535
6.12E-09	0	1.00E+00	2,272,216
6.15E-09	0	5.68E-01	3,036,702
6.16E-09	17.3	1.13E-01	3,037,499
6.18E-09	0	6.99E-01	2,985,467
6.19E-09	19	9.07E-02	2,596,378
6.20E-09	0	6.38E-01	2,355,262
6.20E-09	7	3.21E-01	3,007,884
6.24E-09	11.5	2.16E-01	3,036,702
6.27E-09	0	5.40E-01	3,036,702
6.28E-09	13.9	2.16E-01	2,960,928
6.28E-09	19.6	8.24E-02	3,036,702
6.30E-09	0	4.89E-01	2,713,337
6.31E-09	15.9	1.39E-01	3,030,084
6.33E-09	3.1	4.11E-01	2,998,402
6.36E-09	0	5.18E-01	3,037,499
6.36E-09	2.9	4.08E-01	3,034,230

6.36E-09	0	6.37E-01	3,036,702
6.36E-09	9.2	2.66E-01	3,034,102
6.39E-09	6.4	3.25E-01	3,037,499
6.42E-09	8.8	2.72E-01	3,036,702
6.47E-09	29.9	1.10E-02	3,037,499
6.48E-09	2.3	4.23E-01	3,037,499
6.55E-09	6.6	3.23E-01	3,036,702
6.56E-09	9.3	2.85E-01	2,257,342
6.57E-09	0	7.22E-01	3,030,610
6.61E-09	0	5.57E-01	3,036,702
6.62E-09	0	5.41E-01	3,037,499
6.64E-09	8.4	2.83E-01	3,020,814
6.64E-09	5	3.59E-01	3,036,702
6.65E-09	3.3	4.01E-01	3,031,642
6.68E-09	0	6.54E-01	3,037,129
6.69E-09	6.9	3.15E-01	3,037,499
6.72E-09	4.2	3.83E-01	3,007,322
6.72E-09	0	7.53E-01	2,988,329
6.74E-09	22.2	5.41E-02	3,037,499
6.74E-09	0	7.15E-01	3,037,499
6.75E-09	0	9.45E-01	3,024,960
6.76E-09	0	4.95E-01	3,009,079
6.85E-09	9.9	2.48E-01	3,024,960
6.86E-09	0	7.63E-01	3,016,760
6.86E-09	13	1.91E-01	3,033,355
6.88E-09	14.7	1.55E-01	3,024,960
6.92E-09	43.8	1.93E-03	2,973,431
6.94E-09	17.8	1.05E-01	3,037,499
6.98E-09	0	8.35E-01	3,034,756
6.99E-09	0	6.32E-01	2,983,840
6.99E-09	19.9	8.49E-02	3,033,177
7.00E-09	0	7.19E-01	3,037,499
7.01E-09	21.4	6.19E-02	3,037,499
7.04E-09	13	1.86E-01	3,035,066
7.05E-09	0	8.10E-01	2,983,831
7.06E-09	0	9.86E-01	2,970,087
7.06E-09	11.7	2.10E-01	3,037,499
7.06E-09	0	7.42E-01	3,037,499
7.08E-09	11.5	2.16E-01	3,036,702
7.09E-09	0	7.31E-01	3,035,786
7.12E-09	4.5	3.75E-01	3,004,586
7.16E-09	0	9.12E-01	3,037,499
7.18E-09	0	6.40E-01	3,017,500
7.18E-09	0	8.23E-01	3,035,786
7.19E-09	0	8.72E-01	3,022,371
7.20E-09	21.5	6.33E-02	3,034,989
7.21E-09	0	9.89E-01	2,903,025
7.28E-09	5.4	3.51E-01	3,000,035

7.31E-09	0	6.13E-01	3,031,809
7.35E-09	0	5.38E-01	3,035,066
7.36E-09	0	7.34E-01	3,037,499
7.36E-09	10.4	3.30E-01	2,852,390
7.40E-09	9.7	2.53E-01	3,031,883
7.46E-09	6.9	3.16E-01	3,035,786
7.46E-09	0	7.81E-01	3,033,294
7.47E-09	23.9	1.43E-01	2,887,035
7.49E-09	0	5.96E-01	3,036,955
7.49E-09	0	5.23E-01	3,037,499
7.51E-09	0	6.18E-01	2,967,746
7.52E-09	20.6	7.00E-02	3,037,499
7.55E-09	13.6	1.90E-01	3,002,733
7.57E-09	30.4	9.80E-03	3,037,499
7.60E-09	6.9	3.15E-01	3,037,499
7.61E-09	0	6.66E-01	3,034,756
7.66E-09	0	7.00E-01	3,037,499
7.66E-09	0	8.67E-01	3,023,247
7.68E-09	0	6.28E-01	3,033,497
7.69E-09	0	5.85E-01	3,013,873
7.70E-09	11.2	2.22E-01	3,000,071
7.75E-09	0	5.42E-01	3,035,066
7.75E-09	0	8.06E-01	3,023,247
7.78E-09	21	6.58E-02	3,037,499
7.80E-09	0	9.11E-01	3,036,702
7.85E-09	0	9.47E-01	2,974,829
7.85E-09	18.5	9.67E-02	3,036,702
7.86E-09	4.1	3.81E-01	3,037,499
7.86E-09	12.5	1.94E-01	3,037,499
7.89E-09	0	6.25E-01	3,035,786
7.89E-09	0	7.69E-01	3,037,499
7.90E-09	9.1	2.69E-01	3,034,181
7.94E-09	16.9	1.23E-01	3,019,330
8.01E-09	4.6	3.70E-01	3,032,556
8.05E-09	16.7	1.47E-01	3,000,474
8.06E-09	38.2	9.44E-02	2,776,936
8.07E-09	21.5	6.39E-02	3,023,247
8.09E-09	12.3	2.06E-01	3,019,213
8.10E-09	10.7	2.55E-01	2,994,913
8.12E-09	0	6.47E-01	3,033,161
8.17E-09	0	6.67E-01	3,037,499
8.18E-09	0	8.08E-01	3,037,499
8.24E-09	5.5	3.47E-01	3,037,499
8.27E-09	14.7	1.54E-01	3,037,499
8.28E-09	0	9.30E-01	3,033,316
8.28E-09	4.1	3.86E-01	3,015,617
8.33E-09	0	5.45E-01	3,035,786
8.34E-09	0	9.89E-01	3,032,284

8.34E-09	11.9	2.07E-01	3,036,955
8.38E-09	4.8	3.64E-01	3,035,786
8.41E-09	0	5.70E-01	3,037,499
8.45E-09	5.5	3.54E-01	3,028,475
8.48E-09	13.9	1.76E-01	3,029,170
8.50E-09	0	8.55E-01	3,036,702
8.50E-09	0	7.04E-01	3,035,868
8.50E-09	20.1	7.73E-02	3,035,786
8.50E-09	0	5.91E-01	3,033,353
8.57E-09	1.8	4.35E-01	3,037,499
8.60E-09	2.4	4.23E-01	3,031,658
8.61E-09	0	6.71E-01	3,035,786
8.68E-09	0	8.22E-01	3,016,748
8.70E-09	0	6.10E-01	2,978,758
8.75E-09	18.5	1.54E-01	2,462,873
8.76E-09	22.8	5.16E-02	3,033,353
8.78E-09	0	4.78E-01	3,036,702
8.84E-09	0	6.32E-01	3,037,499
8.89E-09	0	7.59E-01	3,037,499
8.89E-09	4.3	3.76E-01	3,037,499
8.96E-09	13.1	1.87E-01	3,033,043
8.96E-09	12.1	2.01E-01	3,037,499
8.98E-09	0	1.00E+00	2,272,216
8.98E-09	0	5.88E-01	3,034,765
9.01E-09	0	8.34E-01	3,037,499
9.04E-09	0	6.29E-01	3,010,708
9.06E-09	8.2	2.84E-01	3,037,499
9.10E-09	0	8.34E-01	3,024,960
9.10E-09	14	1.68E-01	3,037,129
9.12E-09	0	5.08E-01	3,002,377
9.14E-09	0.9	4.57E-01	3,035,066
9.18E-09	8	2.92E-01	3,022,527
9.21E-09	0	5.85E-01	3,037,499
9.24E-09	0	8.77E-01	3,037,499
9.27E-09	0	5.35E-01	2,970,476
9.32E-09	3.7	3.08E-01	2,713,337
9.42E-09	2	4.34E-01	2,949,731
9.43E-09	0	7.43E-01	3,034,989
9.47E-09	0	8.47E-01	3,000,868
9.48E-09	19	9.28E-02	3,031,119
9.52E-09	2.4	4.22E-01	3,036,702
9.56E-09	0	8.27E-01	3,037,499
9.57E-09	0	5.81E-01	3,035,786
9.57E-09	1.8	4.35E-01	3,036,068
9.58E-09	6.8	3.17E-01	3,037,499
9.58E-09	18.1	1.00E-01	3,037,499
9.61E-09	25.2	5.27E-02	2,994,795
9.65E-09	2.8	4.12E-01	3,036,702

9.66E-09	0	6.98E-01	3,037,499
9.67E-09	0	8.99E-01	2,977,971
9.70E-09	14.6	1.81E-01	2,524,895
9.72E-09	28.5	1.61E-02	3,036,955
9.72E-09	20.9	6.75E-02	3,037,499
9.72E-09	0	5.71E-01	2,969,322
9.73E-09	3	4.08E-01	3,036,332
9.79E-09	0	9.76E-01	3,037,499
9.80E-09	0.6	4.63E-01	3,019,119
9.85E-09	0	5.42E-01	3,036,158
9.86E-09	0	6.87E-01	3,036,955
9.88E-09	1.1	4.53E-01	3,037,499
9.90E-09	5.6	3.44E-01	3,036,702
9.90E-09	11.8	2.17E-01	3,027,592
9.98E-09	3.9	3.86E-01	3,037,499
9.98E-09	0	9.16E-01	3,035,786
1.00E-08	0	7.78E-01	3,037,499
1.00E-08	0	8.81E-01	3,034,989
1.01E-08	0	8.81E-01	3,012,232
1.01E-08	29.8	2.01E-02	2,998,990
1.01E-08	0	7.94E-01	3,037,499
1.02E-08	0	5.07E-01	3,037,499
1.02E-08	17.8	1.05E-01	3,037,499
1.02E-08	17.5	1.09E-01	3,037,499
1.02E-08	18.2	1.01E-01	3,036,702
1.02E-08	2.6	4.17E-01	3,007,741
1.03E-08	0	8.16E-01	3,014,685
1.03E-08	0	4.91E-01	3,029,450
1.03E-08	27.7	2.05E-02	3,020,814
1.03E-08	18	1.08E-01	3,032,439
1.04E-08	10.5	2.34E-01	3,037,499
1.04E-08	8.4	2.92E-01	2,995,310
1.04E-08	0	6.46E-01	3,037,499
1.04E-08	17.7	1.08E-01	3,035,786
1.04E-08	3	4.07E-01	3,034,269
1.05E-08	1.3	4.46E-01	3,036,702
1.05E-08	39.3	6.22E-04	3,034,989
1.06E-08	18.8	9.62E-02	3,035,565
1.06E-08	0	6.93E-01	3,028,638
1.07E-08	14.1	1.68E-01	3,022,450
1.07E-08	13.2	1.81E-01	3,037,499
1.09E-08	0	4.88E-01	3,037,499
1.09E-08	0	7.69E-01	3,020,814
1.10E-08	0	5.51E-01	3,034,989
1.10E-08	7.1	3.11E-01	3,037,499
1.11E-08	0	7.46E-01	3,034,989
1.11E-08	15.7	1.39E-01	3,034,989
1.12E-08	19.6	8.90E-02	3,033,520

1.12E-08	0	5.35E-01	3,036,702
1.12E-08	0.9	4.55E-01	3,034,989
1.12E-08	16.6	1.26E-01	3,035,361
1.12E-08	0	6.81E-01	3,017,563
1.12E-08	0.7	4.60E-01	3,035,786
1.13E-08	10.3	2.41E-01	3,036,158
1.13E-08	0	8.67E-01	3,036,702
1.13E-08	10.7	2.31E-01	3,037,499
1.14E-08	24.4	3.84E-02	3,023,247
1.14E-08	0	8.95E-01	2,963,179
1.14E-08	0	7.47E-01	3,037,499
1.14E-08	7.5	3.24E-01	2,971,047
1.14E-08	19.3	8.50E-02	3,037,499
1.15E-08	22.7	5.10E-02	3,035,880
1.16E-08	0	9.67E-01	2,838,817
1.16E-08	0	5.73E-01	3,035,066
1.16E-08	0	5.01E-01	3,036,955
1.16E-08	0	6.83E-01	3,024,960
1.16E-08	0	6.35E-01	3,037,499
1.16E-08	3.5	4.03E-01	2,978,623
1.16E-08	19	8.93E-02	3,037,499
1.17E-08	0	5.20E-01	3,036,702
1.18E-08	19.1	9.47E-02	3,028,156
1.18E-08	29.9	1.15E-02	3,036,702
1.18E-08	1.6	4.38E-01	2,874,927
1.19E-08	0	6.59E-01	3,010,443
1.19E-08	0	7.40E-01	2,988,997
1.19E-08	5.2	3.53E-01	3,037,499
1.19E-08	0	6.00E-01	3,035,786
1.19E-08	9.1	2.66E-01	3,036,702
1.20E-08	0	7.78E-01	3,024,960
1.21E-08	17.3	1.19E-01	3,021,552
1.21E-08	0	5.08E-01	3,018,113
1.22E-08	29.6	1.29E-02	3,034,989
1.22E-08	25.4	3.84E-02	3,015,265
1.23E-08	0	1.00E+00	2,272,216
1.23E-08	8.3	2.81E-01	3,037,499
1.23E-08	12.8	1.92E-01	3,033,433
1.23E-08	0	9.02E-01	3,012,771
1.24E-08	26.3	2.93E-02	3,030,573
1.26E-08	0	7.37E-01	3,037,499
1.26E-08	0	5.18E-01	3,034,091
1.26E-08	0	8.31E-01	2,837,640
1.26E-08	20.5	7.08E-02	3,037,499
1.26E-08	5	3.58E-01	3,037,499
1.26E-08	31.4	2.07E-02	2,980,008
1.26E-08	0	7.40E-01	2,986,842
1.28E-08	0	7.51E-01	3,037,499

1.28E-08	0.5	4.65E-01	3,005,914
1.28E-08	31.5	2.05E-02	2,970,944
1.28E-08	11.2	2.32E-01	3,005,460
1.28E-08	0	7.79E-01	3,024,163
1.29E-08	0	6.45E-01	2,935,260
1.29E-08	0	5.37E-01	3,037,499
1.30E-08	0	9.48E-01	2,947,342
1.30E-08	19.1	9.16E-02	3,024,046
1.30E-08	23.1	4.79E-02	3,035,786
1.30E-08	0	5.47E-01	3,037,499
1.30E-08	0	9.36E-01	3,037,499
1.31E-08	25.4	3.05E-02	3,037,499
1.31E-08	0	7.59E-01	3,037,499
1.32E-08	0	6.14E-01	3,035,679
1.32E-08	6.3	3.29E-01	3,037,499
1.32E-08	0	4.76E-01	3,036,702
1.33E-08	13.9	1.69E-01	3,035,553
1.33E-08	0	9.32E-01	3,037,499
1.33E-08	0	5.99E-01	3,037,499
1.33E-08	0	9.53E-01	2,995,945
1.34E-08	14.2	1.97E-01	2,991,672
1.34E-08	3.6	3.93E-01	3,034,445
1.34E-08	10.8	2.44E-01	3,002,310
1.35E-08	4.2	3.80E-01	2,997,581
1.35E-08	0	8.88E-01	3,037,499
1.35E-08	4.8	3.65E-01	3,036,702
1.36E-08	0	5.22E-01	2,596,378
1.37E-08	0	7.94E-01	3,029,854
1.37E-08	0	4.79E-01	3,030,571
1.37E-08	19.5	1.83E-01	2,918,512
1.37E-08	27.9	1.99E-02	3,032,809
1.37E-08	14.6	1.55E-01	3,037,499
1.37E-08	27.9	1.78E-02	3,037,499
1.38E-08	7.1	3.52E-01	2,915,755
1.38E-08	8.4	2.81E-01	3,036,702
1.38E-08	0	5.01E-01	3,013,761
1.39E-08	3	4.05E-01	3,036,702
1.40E-08	6.7	3.19E-01	3,024,960
1.41E-08	7.5	3.07E-01	3,033,737
1.41E-08	0	9.22E-01	3,000,868
1.41E-08	4.3	3.76E-01	3,018,949
1.41E-08	0	6.50E-01	3,030,999
1.42E-08	9.3	2.63E-01	3,035,009
1.42E-08	3.5	3.94E-01	3,037,499
1.42E-08	6.4	3.27E-01	3,034,989
1.42E-08	1.5	4.43E-01	2,955,466
1.42E-08	1.2	4.48E-01	3,037,499
1.42E-08	0	9.26E-01	3,037,499

1.44E-08	0	9.85E-01	2,996,959
1.44E-08	2.3	4.23E-01	3,036,702
1.44E-08	34.3	3.40E-03	3,036,702
1.44E-08	0	6.95E-01	2,976,647
1.45E-08	15.6	1.40E-01	3,024,960
1.45E-08	0	5.50E-01	3,000,071
1.46E-08	17.8	1.05E-01	3,037,499
1.46E-08	0	6.08E-01	3,036,955
1.46E-08	12.8	2.02E-01	3,031,011
1.46E-08	0	6.40E-01	2,969,030
1.47E-08	0	7.29E-01	3,015,850
1.47E-08	0	6.63E-01	3,013,437
1.47E-08	9.1	2.67E-01	3,035,786
1.47E-08	48.5	5.26E-06	3,034,899
1.47E-08	3.8	3.87E-01	3,024,960
1.47E-08	18.8	9.10E-02	3,037,499
1.48E-08	0	9.71E-01	3,031,291
1.48E-08	0	8.18E-01	2,713,337
1.49E-08	0	6.61E-01	3,037,499
1.51E-08	9.9	2.47E-01	3,037,499
1.51E-08	15	1.99E-01	2,981,782
1.51E-08	35	5.01E-03	3,007,426
1.51E-08	11.4	2.16E-01	3,037,499
1.55E-08	7.7	3.15E-01	2,950,668
1.55E-08	1.4	4.44E-01	3,037,499
1.56E-08	28.2	1.68E-02	3,037,499
1.56E-08	13.6	1.74E-01	3,037,499
1.56E-08	12.6	1.91E-01	3,037,499
1.57E-08	0	5.27E-01	3,028,743
1.57E-08	0	7.95E-01	3,008,838
1.57E-08	16.4	1.53E-01	2,985,334
1.57E-08	0	6.81E-01	3,036,702
1.57E-08	7.3	3.09E-01	2,578,137
1.57E-08	13.6	1.73E-01	3,037,499
1.57E-08	0	5.07E-01	3,035,786
1.58E-08	17.3	1.18E-01	2,983,038
1.58E-08	8.5	2.78E-01	3,037,499
1.58E-08	0	4.79E-01	3,020,514
1.58E-08	8.3	2.83E-01	3,037,499
1.58E-08	9.3	2.62E-01	3,035,786
1.58E-08	7.1	3.16E-01	2,992,394
1.59E-08	0	5.55E-01	3,036,955
1.59E-08	3.1	4.06E-01	3,005,701
1.59E-08	14.9	1.50E-01	3,037,499
1.59E-08	0	5.27E-01	3,037,499
1.59E-08	1.4	4.45E-01	3,036,158
1.59E-08	0	6.70E-01	3,037,499
1.59E-08	1.2	4.50E-01	3,036,702

1.60E-08	0	6.97E-01	3,036,702
1.61E-08	12	2.04E-01	3,037,499
1.62E-08	9.2	2.69E-01	3,028,283
1.63E-08	4.8	3.64E-01	3,037,499
1.64E-08	27.2	2.23E-02	3,034,899
1.64E-08	26.2	2.64E-02	3,035,786
1.65E-08	8.9	2.70E-01	3,000,868
1.65E-08	0	6.98E-01	2,935,991
1.65E-08	0	1.00E+00	2,272,216
1.65E-08	0	6.02E-01	3,037,499
1.66E-08	5.1	3.56E-01	3,037,499
1.66E-08	0	6.66E-01	3,020,814
1.66E-08	0.2	4.73E-01	3,036,702
1.66E-08	0	6.66E-01	2,887,121
1.66E-08	15.4	1.42E-01	3,036,552
1.67E-08	0	7.60E-01	3,035,066
1.67E-08	0	9.87E-01	2,999,155
1.68E-08	8.3	2.84E-01	3,024,960
1.68E-08	0	7.99E-01	3,031,603
1.69E-08	0	8.42E-01	2,510,553
1.69E-08	0	7.31E-01	3,000,990
1.69E-08	0	6.47E-01	3,006,446
1.70E-08	9.1	2.65E-01	3,035,066
1.70E-08	14	1.68E-01	3,036,158
1.70E-08	0	9.39E-01	3,000,868
1.70E-08	13.6	2.60E-01	2,882,813
1.70E-08	0	6.83E-01	3,024,659
1.70E-08	0	6.56E-01	3,037,499
1.70E-08	0	8.07E-01	3,000,868
1.71E-08	0	7.78E-01	3,035,786
1.71E-08	7.1	3.09E-01	3,035,786
1.71E-08	0	5.11E-01	3,037,499
1.72E-08	17.8	1.43E-01	2,949,807
1.72E-08	18.7	9.43E-02	3,036,702
1.72E-08	0.5	4.64E-01	2,990,519
1.72E-08	0	9.06E-01	3,036,702
1.73E-08	11.1	2.23E-01	3,037,499
1.73E-08	0	4.85E-01	3,028,362
1.73E-08	0	9.19E-01	3,023,247
1.73E-08	19.3	8.66E-02	3,036,702
1.73E-08	0	7.85E-01	3,012,715
1.74E-08	0	9.86E-01	3,036,267
1.74E-08	0	6.48E-01	3,033,353
1.74E-08	0	8.42E-01	3,005,623
1.74E-08	1.8	4.36E-01	3,037,499
1.74E-08	0	9.42E-01	3,036,702
1.75E-08	0	6.67E-01	3,019,181
1.75E-08	0.6	4.63E-01	3,037,499

1.75E-08	0	7.00E-01	3,015,628
1.76E-08	0	8.81E-01	3,033,260
1.76E-08	5.5	3.46E-01	3,037,499
1.77E-08	0	7.96E-01	2,970,633
1.77E-08	0	5.78E-01	3,024,163
1.77E-08	30.1	1.25E-02	3,021,552
1.77E-08	12.9	1.92E-01	2,986,616
1.77E-08	8.6	2.79E-01	3,033,316
1.77E-08	15.9	1.34E-01	3,037,499
1.78E-08	14.7	1.54E-01	3,037,499
1.78E-08	8.8	2.90E-01	2,987,724
1.79E-08	0	4.95E-01	3,020,814
1.79E-08	7.7	2.96E-01	3,036,702
1.79E-08	12.6	2.18E-01	2,950,929
1.79E-08	1.3	4.47E-01	3,008,612
1.80E-08	8	2.90E-01	3,036,702
1.82E-08	0	8.88E-01	3,035,804
1.82E-08	16.3	1.84E-01	2,985,449
1.83E-08	0.1	4.75E-01	3,036,955
1.84E-08	23.5	6.57E-02	3,016,915
1.84E-08	0.9	4.57E-01	3,030,025
1.84E-08	0	5.91E-01	3,035,786
1.85E-08	0	8.51E-01	3,037,499
1.86E-08	19.2	8.75E-02	3,035,671
1.86E-08	19.7	8.19E-02	3,035,786
1.86E-08	9.2	2.63E-01	3,037,499
1.87E-08	0	6.24E-01	3,015,053
1.87E-08	0	9.45E-01	3,034,696
1.87E-08	11.1	2.74E-01	2,938,655
1.89E-08	30.3	1.48E-02	3,012,717
1.90E-08	0	6.83E-01	3,023,140
1.91E-08	8.1	2.94E-01	3,020,638
1.92E-08	0	9.52E-01	3,035,786
1.92E-08	0	7.65E-01	3,036,702
1.93E-08	3.6	3.92E-01	3,036,585
1.93E-08	0	9.21E-01	3,034,989
1.93E-08	0	1.00E+00	2,272,216
1.93E-08	20.5	7.25E-02	3,024,960
1.94E-08	19	9.07E-02	3,035,786
1.94E-08	0.5	4.65E-01	3,027,224
1.95E-08	10	2.45E-01	3,037,499
1.96E-08	10.9	2.30E-01	3,030,156
1.96E-08	0	5.07E-01	3,020,035
1.97E-08	27.8	1.91E-02	3,035,553
1.97E-08	1.1	4.51E-01	3,034,075
1.97E-08	6.6	3.28E-01	3,012,734
1.98E-08	20.1	8.70E-02	2,999,940
1.99E-08	10.7	2.45E-01	3,022,210

1.99E-08	0	6.99E-01	2,976,261
1.99E-08	0	6.10E-01	3,006,375
1.99E-08	0	5.36E-01	3,034,989
2.01E-08	0	6.64E-01	2,964,640
2.01E-08	0	7.98E-01	3,036,702
2.02E-08	0	5.72E-01	3,034,091
2.02E-08	0	5.41E-01	3,016,215
2.02E-08	0	6.50E-01	3,004,362
2.03E-08	0	9.68E-01	3,028,362
2.03E-08	11.2	2.23E-01	3,022,450
2.04E-08	3.6	3.93E-01	3,034,989
2.04E-08	0	9.72E-01	2,864,459
2.06E-08	12.6	1.94E-01	3,035,786
2.06E-08	0	9.92E-01	3,037,499
2.06E-08	0	8.61E-01	3,037,499
2.07E-08	12.6	1.99E-01	3,022,069
2.07E-08	24.1	3.99E-02	3,036,702
2.07E-08	6.2	3.41E-01	3,004,906
2.07E-08	18.1	2.08E-01	2,865,313
2.08E-08	5.2	3.82E-01	2,933,775
2.08E-08	0	6.49E-01	3,000,868
2.08E-08	11.9	2.14E-01	3,028,313
2.09E-08	0	7.10E-01	2,955,256
2.11E-08	1.1	4.53E-01	3,037,499
2.11E-08	14	1.68E-01	3,036,702
2.12E-08	0	6.47E-01	2,998,435
2.12E-08	0	4.81E-01	3,037,499
2.13E-08	10.2	2.42E-01	3,036,702
2.13E-08	0	6.62E-01	3,036,702
2.13E-08	0	8.17E-01	3,034,989
2.14E-08	0	6.57E-01	3,035,786
2.14E-08	0	9.02E-01	3,033,316
2.15E-08	8.6	3.61E-01	2,715,255
2.15E-08	18.3	1.40E-01	2,992,881
2.15E-08	16.4	1.46E-01	3,003,572
2.16E-08	16.1	1.35E-01	3,022,450
2.17E-08	0	8.65E-01	2,748,471
2.17E-08	1.7	4.37E-01	3,037,499
2.17E-08	35	4.76E-02	2,854,740
2.17E-08	17.9	1.08E-01	3,032,556
2.18E-08	0	6.76E-01	3,030,433
2.19E-08	21.6	8.54E-02	2,992,559
2.19E-08	9.6	2.96E-01	2,987,662
2.20E-08	6.2	3.37E-01	3,028,150
2.21E-08	0	5.73E-01	3,035,786
2.21E-08	0	6.75E-01	3,031,425
2.21E-08	0	9.51E-01	3,037,499
2.21E-08	0	7.37E-01	3,006,171

2.22E-08	39.2	6.08E-04	3,035,679
2.22E-08	0.2	4.72E-01	3,035,242
2.23E-08	1.2	4.50E-01	3,034,091
2.25E-08	11.4	2.16E-01	3,037,499
2.25E-08	0	4.83E-01	3,024,960
2.25E-08	0	5.32E-01	3,037,499
2.26E-08	0	8.18E-01	3,037,499
2.26E-08	12.7	1.90E-01	3,037,499
2.27E-08	7.3	3.07E-01	3,036,702
2.27E-08	20.6	7.27E-02	3,023,247
2.28E-08	0	7.98E-01	2,839,803
2.28E-08	6.7	3.20E-01	3,037,499
2.30E-08	15.6	1.39E-01	3,000,868
2.30E-08	3.1	4.18E-01	2,918,865
2.31E-08	14.1	1.66E-01	3,036,702
2.31E-08	0	8.43E-01	2,852,296
2.33E-08	12.7	1.91E-01	3,036,702
2.33E-08	4.1	3.80E-01	3,037,499
2.35E-08	0	8.93E-01	3,035,786
2.35E-08	0	9.31E-01	3,035,066
2.36E-08	0	8.29E-01	3,036,955
2.36E-08	0	6.03E-01	3,037,499
2.37E-08	0	7.08E-01	3,034,989
2.39E-08	17.5	1.18E-01	3,027,839
2.39E-08	5.7	3.42E-01	3,037,499
2.40E-08	0	7.60E-01	3,009,996
2.41E-08	0	8.14E-01	2,797,257
2.41E-08	4.1	3.80E-01	3,036,702
2.42E-08	0	6.60E-01	2,846,016
2.42E-08	0	9.77E-01	2,973,669
2.43E-08	0	6.98E-01	3,023,978
2.44E-08	8.2	2.98E-01	3,017,948
2.44E-08	27.3	2.05E-02	3,037,499
2.44E-08	0	5.47E-01	3,020,526
2.45E-08	7.1	3.19E-01	3,017,558
2.46E-08	13.6	1.79E-01	3,035,195
2.46E-08	0	5.77E-01	3,017,733
2.47E-08	4.7	3.65E-01	3,037,499
2.48E-08	5.7	3.44E-01	3,035,786
2.49E-08	15.3	1.46E-01	3,035,804
2.51E-08	26.7	2.41E-02	3,036,702
2.51E-08	3.4	4.08E-01	2,977,050
2.51E-08	0.1	4.75E-01	3,037,499
2.52E-08	11.7	2.10E-01	3,037,499
2.53E-08	8.1	2.86E-01	3,037,499
2.53E-08	3.6	3.94E-01	3,027,690
2.53E-08	0	5.24E-01	3,035,873
2.53E-08	14.8	1.57E-01	3,031,000

2.55E-08	11.2	2.24E-01	3,019,258
2.55E-08	34.4	6.69E-02	2,910,100
2.55E-08	6.8	3.16E-01	3,037,499
2.55E-08	12.5	1.93E-01	3,037,499
2.56E-08	14.5	1.62E-01	3,033,371
2.56E-08	0	6.33E-01	3,037,499
2.57E-08	0	5.06E-01	2,975,720
2.57E-08	2.6	4.15E-01	3,037,499
2.58E-08	0	5.95E-01	2,814,765
2.59E-08	13.2	2.04E-01	2,998,969
2.61E-08	16.6	1.23E-01	3,037,499
2.61E-08	0	8.13E-01	3,023,791
2.62E-08	2.8	4.11E-01	3,035,786
2.63E-08	5.6	3.45E-01	3,037,499
2.64E-08	0	5.80E-01	3,036,702
2.65E-08	0	7.66E-01	3,037,499
2.66E-08	19.5	8.45E-02	3,036,702
2.66E-08	0	6.15E-01	3,037,499
2.67E-08	10.5	2.35E-01	3,036,702
2.67E-08	0	5.55E-01	3,014,464
2.68E-08	0	5.37E-01	3,018,477
2.69E-08	1.3	4.48E-01	3,035,894
2.70E-08	30.5	1.09E-02	3,020,814
2.74E-08	0	8.31E-01	2,993,027
2.74E-08	16.4	1.27E-01	3,035,786
2.75E-08	0	8.32E-01	3,035,786
2.75E-08	8.1	2.89E-01	3,036,702
2.75E-08	20	7.70E-02	3,037,499
2.75E-08	25.2	4.17E-02	3,002,386
2.75E-08	0	8.72E-01	3,034,989
2.75E-08	3.7	3.91E-01	3,035,804
2.76E-08	2.9	4.08E-01	3,037,499
2.76E-08	3.7	3.92E-01	3,010,533
2.77E-08	0	7.44E-01	2,822,336
2.78E-08	0	5.76E-01	3,037,499
2.79E-08	20.4	7.37E-02	3,036,702
2.79E-08	30.5	9.59E-03	3,037,499
2.79E-08	0	7.11E-01	3,037,129
2.80E-08	0	8.02E-01	2,999,138
2.81E-08	0	5.42E-01	3,036,955
2.82E-08	0	8.84E-01	3,037,499
2.82E-08	0	5.02E-01	3,028,553
2.82E-08	5.6	3.45E-01	3,024,960
2.83E-08	18	2.26E-01	2,870,909
2.83E-08	23	6.95E-02	2,993,381
2.83E-08	0	5.52E-01	3,037,499
2.85E-08	16.4	1.29E-01	3,032,517
2.85E-08	0	7.67E-01	3,013,515

2.85E-08	16.5	1.34E-01	3,012,654
2.85E-08	6	3.35E-01	3,037,499
2.87E-08	21.2	6.41E-02	3,037,499
2.89E-08	0	7.67E-01	3,019,996
2.89E-08	0	5.81E-01	3,036,702
2.89E-08	14.2	1.68E-01	2,997,550
2.91E-08	0	7.91E-01	3,032,508
2.93E-08	0	1.00E+00	2,272,216
2.95E-08	0.8	4.59E-01	3,000,598
2.96E-08	0	7.82E-01	3,037,499
2.96E-08	24.2	3.93E-02	3,000,868
2.97E-08	0	5.70E-01	2,516,805
2.97E-08	0	4.95E-01	3,037,499
2.98E-08	0	6.52E-01	2,893,857
2.98E-08	0	8.37E-01	2,947,830
2.99E-08	6.8	3.18E-01	3,036,955
2.99E-08	11	2.27E-01	3,000,071
2.99E-08	14.5	1.72E-01	3,013,186
3.00E-08	0	9.95E-01	3,036,702
3.01E-08	0	8.70E-01	3,024,163
3.01E-08	10.3	2.40E-01	3,035,066
3.01E-08	2	4.31E-01	3,036,702
3.02E-08	0	8.46E-01	3,037,499
3.02E-08	20.2	7.44E-02	3,037,499
3.03E-08	0	6.37E-01	3,033,043
3.03E-08	5.4	3.50E-01	3,036,702
3.04E-08	9.5	2.58E-01	3,034,269
3.04E-08	30.1	1.13E-02	3,036,158
3.05E-08	13.5	1.76E-01	3,024,960
3.06E-08	11.9	2.27E-01	3,002,781
3.07E-08	10.5	2.38E-01	3,036,158
3.07E-08	9.1	2.70E-01	3,016,748
3.08E-08	0.1	4.76E-01	3,037,499
3.09E-08	0	8.58E-01	3,036,702
3.09E-08	5.1	3.59E-01	3,020,814
3.10E-08	5.4	3.55E-01	3,022,208
3.10E-08	4.6	3.70E-01	3,034,989
3.11E-08	0	4.79E-01	3,035,786
3.12E-08	0	7.85E-01	2,983,210
3.14E-08	33.1	5.42E-03	3,020,814
3.14E-08	8.7	2.99E-01	3,004,285
3.15E-08	26.4	2.86E-02	3,034,651
3.15E-08	4	3.83E-01	3,036,955
3.16E-08	2.2	4.31E-01	2,922,200
3.17E-08	13.4	1.81E-01	3,034,445
3.18E-08	12.4	1.98E-01	3,036,702
3.20E-08	11.1	2.25E-01	3,023,247
3.21E-08	0	7.65E-01	763,570

3.22E-08	2	4.31E-01	3,013,094
3.24E-08	0	6.54E-01	3,037,499
3.26E-08	0	7.26E-01	2,988,004
3.26E-08	30.1	2.44E-02	2,989,550
3.26E-08	4.4	3.74E-01	3,036,702
3.28E-08	0	7.35E-01	3,027,592
3.28E-08	12	2.03E-01	3,037,499
3.29E-08	12.7	1.90E-01	3,037,499
3.29E-08	13	1.87E-01	3,033,433
3.29E-08	0	6.98E-01	3,037,499
3.30E-08	0	9.29E-01	3,037,499
3.34E-08	15.6	1.40E-01	3,036,702
3.34E-08	6.2	3.32E-01	3,023,247
3.35E-08	4.9	3.60E-01	3,037,499
3.37E-08	5.5	3.47E-01	3,034,989
3.38E-08	20	7.99E-02	2,998,435
3.38E-08	0	5.72E-01	3,036,158
3.40E-08	0	5.09E-01	2,980,089
3.41E-08	0	9.88E-01	3,035,786
3.42E-08	0	5.44E-01	2,991,549
3.43E-08	1.8	4.39E-01	2,954,409
3.45E-08	12	2.06E-01	3,036,955
3.46E-08	10.7	2.29E-01	3,037,499
3.46E-08	17.7	1.09E-01	3,034,269
3.47E-08	0	5.08E-01	2,930,119
3.48E-08	31.7	6.99E-02	2,876,989
3.48E-08	26.7	2.30E-02	3,037,499
3.49E-08	5.2	3.57E-01	3,023,845
3.49E-08	0	7.29E-01	3,034,989
3.50E-08	4.5	3.70E-01	3,037,499
3.51E-08	0.9	4.55E-01	3,037,499
3.51E-08	28.6	2.37E-01	2,713,337
3.52E-08	8.8	3.21E-01	2,943,835
3.52E-08	15	1.50E-01	3,035,786
3.53E-08	10.6	2.33E-01	3,036,702
3.53E-08	0	6.25E-01	3,034,989
3.57E-08	0	8.85E-01	3,037,499
3.58E-08	17.5	1.10E-01	3,035,786
3.59E-08	0	5.08E-01	3,023,247
3.59E-08	12.3	1.99E-01	3,037,499
3.59E-08	0	6.44E-01	3,037,499
3.59E-08	0	6.06E-01	3,035,066
3.60E-08	19.7	8.36E-02	3,000,324
3.60E-08	15.8	1.38E-01	3,034,989
3.61E-08	0	7.13E-01	3,035,786
3.61E-08	0.8	4.58E-01	3,008,730
3.61E-08	0	7.74E-01	3,016,370
3.62E-08	0	1.00E+00	2,272,216

3.62E-08	0	9.68E-01	3,036,702
3.62E-08	7.3	3.06E-01	3,037,499
3.63E-08	2.3	4.23E-01	3,035,786
3.64E-08	0	1.00E+00	2,272,216
3.65E-08	0	4.80E-01	2,998,125
3.66E-08	4.1	3.89E-01	2,948,226
3.66E-08	4.6	3.68E-01	3,037,499
3.66E-08	0	8.01E-01	2,787,495
3.67E-08	9.3	2.67E-01	3,030,824
3.67E-08	0	6.65E-01	3,037,499
3.69E-08	0	9.57E-01	2,980,911
3.69E-08	15.7	1.36E-01	3,037,499
3.69E-08	23.9	4.13E-02	3,037,129
3.70E-08	5.9	3.65E-01	1,301,704
3.71E-08	0	5.70E-01	3,036,955
3.71E-08	0	7.66E-01	3,016,900
3.71E-08	0	4.87E-01	3,034,989
3.71E-08	0	5.23E-01	3,020,956
3.71E-08	0	8.37E-01	3,037,499
3.71E-08	2.3	4.23E-01	3,036,955
3.71E-08	0	7.37E-01	3,028,980
3.71E-08	8.7	2.83E-01	3,012,734
3.73E-08	15.7	1.37E-01	3,037,499
3.75E-08	14.8	1.56E-01	3,034,091
3.78E-08	7.2	3.07E-01	3,037,499
3.78E-08	8.2	2.91E-01	3,030,824
3.80E-08	1.9	4.32E-01	3,031,809
3.80E-08	18.2	1.01E-01	3,036,702
3.80E-08	0	7.44E-01	3,037,499
3.81E-08	0	5.81E-01	3,023,247
3.82E-08	0	9.69E-01	2,904,038
3.83E-08	19.5	8.73E-02	3,034,091
3.84E-08	4.4	3.74E-01	3,037,499
3.85E-08	11.3	2.17E-01	3,037,499
3.85E-08	0	8.00E-01	3,035,786
3.86E-08	0	8.19E-01	3,017,003
3.87E-08	0	7.42E-01	3,035,786
3.87E-08	0	6.46E-01	2,993,453
3.88E-08	0	9.00E-01	3,035,786
3.88E-08	7.4	3.10E-01	3,014,231
3.89E-08	5.3	3.53E-01	3,023,247
3.90E-08	0	8.49E-01	3,015,306
3.91E-08	0	9.97E-01	3,036,238
3.91E-08	8.2	2.87E-01	3,036,702
3.92E-08	13.2	1.88E-01	3,030,861
3.94E-08	6.4	3.66E-01	2,930,175
3.95E-08	0	6.02E-01	3,036,702
3.96E-08	0	6.16E-01	3,036,702

3.97E-08	10.2	2.45E-01	3,033,316
3.98E-08	16.5	1.25E-01	3,036,702
3.98E-08	2.3	4.24E-01	3,037,499
3.98E-08	9	2.67E-01	3,037,499
3.98E-08	10.2	2.43E-01	3,035,894
3.98E-08	0	9.95E-01	2,869,380
4.00E-08	18.2	1.83E-01	2,456,867
4.01E-08	0	5.39E-01	3,037,499
4.01E-08	44.5	4.19E-02	2,826,765
4.01E-08	10.2	2.77E-01	2,975,203
4.01E-08	20.6	7.03E-02	3,037,499
4.03E-08	0	8.50E-01	3,037,499
4.04E-08	11	2.24E-01	3,037,499
4.05E-08	25.7	1.05E-01	2,928,554
4.06E-08	0	9.17E-01	2,982,682
4.07E-08	0	8.16E-01	2,893,903
4.08E-08	8	3.01E-01	3,011,004
4.09E-08	0	8.66E-01	3,019,258
4.09E-08	12.4	1.97E-01	3,000,868
4.10E-08	0	9.67E-01	2,992,843
4.11E-08	0	6.60E-01	3,036,702
4.11E-08	0	6.30E-01	3,034,269
4.13E-08	2	4.29E-01	3,037,499
4.13E-08	0	5.99E-01	3,023,265
4.13E-08	10.8	2.31E-01	3,000,868
4.14E-08	0	5.31E-01	2,856,588
4.15E-08	0	8.71E-01	3,022,544
4.15E-08	0	8.81E-01	2,925,139
4.15E-08	24.9	3.40E-02	3,000,868
4.19E-08	32.1	9.19E-03	3,021,446
4.19E-08	0	7.10E-01	3,037,499
4.19E-08	0	8.35E-01	3,024,163
4.20E-08	22.9	4.94E-02	3,036,702
4.23E-08	2.8	4.11E-01	3,036,702
4.24E-08	0	9.15E-01	3,037,499
4.25E-08	0	9.64E-01	3,037,499
4.25E-08	24	3.99E-02	3,037,499
4.26E-08	17	1.16E-01	3,037,499
4.27E-08	2.9	4.10E-01	3,017,500
4.29E-08	0	5.15E-01	3,019,064
4.31E-08	0	5.49E-01	2,950,739
4.32E-08	12.6	1.99E-01	3,021,552
4.32E-08	0	7.14E-01	3,037,499
4.34E-08	0	5.99E-01	2,978,146
4.35E-08	0	8.01E-01	3,037,499
4.35E-08	0	9.47E-01	3,036,702
4.37E-08	0	7.51E-01	2,871,697
4.37E-08	0	6.88E-01	3,033,966

4.37E-08	78.9	2.94E-02	2,713,337
4.38E-08	2.7	4.21E-01	2,960,423
4.38E-08	12.1	2.04E-01	3,036,702
4.39E-08	0	9.53E-01	2,851,676
4.40E-08	1.7	4.37E-01	3,034,230
4.40E-08	20.2	7.99E-02	3,031,658
4.42E-08	12	3.21E-01	2,825,406
4.43E-08	0	7.83E-01	3,036,702
4.44E-08	4.4	3.74E-01	3,030,170
4.44E-08	22.5	8.94E-02	2,978,186
4.44E-08	0	8.46E-01	2,955,576
4.44E-08	0	6.98E-01	3,024,163
4.45E-08	0	7.34E-01	3,019,978
4.45E-08	7.2	3.08E-01	3,035,786
4.46E-08	0	8.72E-01	3,036,702
4.47E-08	12.6	2.07E-01	3,000,093
4.47E-08	3.2	4.02E-01	3,034,269
4.49E-08	0	9.48E-01	3,011,921
4.50E-08	0	9.66E-01	3,037,499
4.53E-08	0	7.15E-01	3,024,416
4.53E-08	24.3	3.87E-02	3,035,066
4.55E-08	6.3	3.36E-01	3,021,309
4.55E-08	24.1	4.12E-02	3,034,989
4.56E-08	0	8.77E-01	3,024,960
4.57E-08	4	3.81E-01	3,037,499
4.57E-08	11.1	2.43E-01	2,999,392
4.58E-08	0	7.04E-01	3,037,499
4.62E-08	0	7.36E-01	3,032,809
4.62E-08	3.6	3.91E-01	3,037,499
4.65E-08	0	6.42E-01	3,022,450
4.66E-08	0	9.79E-01	3,018,205
4.66E-08	1.2	4.48E-01	3,000,868
4.67E-08	0	7.69E-01	3,037,499
4.67E-08	2.9	4.13E-01	3,005,433
4.69E-08	0	1.00E+00	2,272,216
4.71E-08	0	9.98E-01	3,034,989
4.72E-08	11.3	2.90E-01	2,907,540
4.72E-08	0	8.78E-01	3,035,804
4.74E-08	7.3	3.08E-01	3,032,012
4.75E-08	26.2	2.66E-02	3,035,786
4.77E-08	0	9.08E-01	3,036,702
4.78E-08	0	9.00E-01	3,000,875
4.79E-08	0	8.11E-01	3,015,750
4.81E-08	16.2	1.29E-01	3,037,499
4.81E-08	0	8.06E-01	2,961,823
4.82E-08	0	9.93E-01	2,882,210
4.82E-08	0	7.64E-01	3,037,499
4.82E-08	0	6.39E-01	2,713,337

4.86E-08	0	6.66E-01	3,036,702
4.87E-08	10.1	2.47E-01	3,034,212
4.87E-08	11.6	2.12E-01	3,035,066
4.87E-08	19.1	8.78E-02	3,037,499
4.89E-08	0	1.00E+00	2,272,216
4.90E-08	12.6	1.94E-01	3,035,786
4.91E-08	0	7.31E-01	3,037,499
4.91E-08	7.5	3.02E-01	3,036,702
4.92E-08	3.4	3.98E-01	3,030,861
4.94E-08	0	8.47E-01	3,037,499
4.94E-08	1.4	4.44E-01	3,036,702
4.95E-08	15.8	1.34E-01	3,037,499
4.97E-08	11.5	2.14E-01	3,037,499
4.97E-08	6.1	3.41E-01	3,013,589
4.97E-08	7	3.12E-01	3,037,499
4.98E-08	0	9.21E-01	2,904,211
4.98E-08	15.6	1.59E-01	3,005,848
5.00E-08	0	9.17E-01	3,023,247
5.00E-08	3.6	3.91E-01	3,036,702

l by P value. Chromosome (Chr) and base pair (BP)
 -sided Z -test statistics that have been adjusted by an
 '5,380 SNPs is 3.881/6.456 (adjusted and unadjusted,

Supplementary Table 2. Association results for the 2,925 SNPs that reached genome-wide significance ($P < 5 \times 10^{-8}$) in t

SNP	Chr	BP	Effect allele	Other allele	Effect allele frequency	Effect size	S.E.	<i>P</i> value
rs7070545	10	1,055,868	A	G	0.6319	-0.0062	0.0011	8.89E-09
rs10903706	10	2,271,259	T	C	0.6665	0.0061	0.0011	4.95E-08
rs12240387	10	2,664,712	A	G	0.3646	-0.0060	0.0011	3.59E-08
rs4881269	10	4,031,519	A	G	0.3737	0.0104	0.0011	6.07E-22
rs17342732	10	4,146,151	A	G	0.0798	0.0073	0.0019	1.64E-04
rs1348459	10	4,641,583	A	G	0.4237	0.0048	0.0011	6.95E-06
rs11595166	10	4,811,925	T	C	0.0813	0.0132	0.0019	5.54E-12
rs4748333	10	6,773,897	T	C	0.3606	-0.0050	0.0011	4.23E-06
rs72773855	10	7,240,876	A	G	0.2255	-0.0055	0.0013	1.22E-05
rs12783434	10	8,505,597	T	C	0.9852	0.0246	0.0044	1.92E-08
rs10795708	10	9,421,417	A	G	0.2360	-0.0078	0.0012	2.43E-10
rs2066127	10	10,026,007	A	G	0.4778	0.0079	0.0010	3.43E-14
rs1889256	10	10,254,839	A	G	0.7644	0.0101	0.0012	2.94E-16
rs12355354	10	10,906,628	T	C	0.1841	0.0109	0.0014	5.25E-16
rs9423837	10	10,922,346	A	G	0.6134	0.0001	0.0011	9.40E-01
rs1291865	10	11,082,192	T	G	0.5105	-0.0103	0.0010	6.83E-23
rs35345466	10	11,604,399	A	T	0.2641	0.0073	0.0012	7.13E-10
rs10752262	10	12,395,100	T	C	0.4177	0.0093	0.0011	2.08E-18
rs10906209	10	12,740,082	A	C	0.4583	-0.0080	0.0011	4.42E-14
rs963121	10	14,691,246	C	G	0.5258	-0.0066	0.0010	2.65E-10
rs10764493	10	18,727,999	A	G	0.8892	0.0132	0.0017	3.06E-15
rs1339051	10	19,231,108	T	C	0.3961	0.0055	0.0011	2.75E-07
rs11011859	10	20,487,702	A	G	0.8828	0.0113	0.0016	3.88E-12
rs11011932	10	20,576,790	T	C	0.2329	0.0086	0.0012	4.66E-12
rs75624301	10	20,580,242	T	C	0.9677	-0.0100	0.0030	7.15E-04
rs10828248	10	21,824,619	A	G	0.6414	0.0082	0.0011	8.85E-14
rs1888765	10	23,943,839	C	G	0.7758	0.0090	0.0013	7.09E-13
rs7092442	10	24,281,926	C	G	0.6187	-0.0047	0.0011	1.21E-05
rs7074897	10	26,539,683	A	T	0.8191	0.0080	0.0014	4.47E-09
rs7077524	10	31,023,266	A	G	0.3689	0.0078	0.0011	8.34E-13
rs7095095	10	31,361,464	A	G	0.7981	0.0094	0.0013	5.27E-13
rs2797131	10	32,085,988	A	G	0.2200	0.0076	0.0013	2.12E-09
rs2506141	10	33,468,014	T	C	0.5275	0.0068	0.0010	9.67E-11
rs12257894	10	33,608,933	A	G	0.0620	-0.0106	0.0022	9.44E-07
rs224697	10	34,289,562	A	T	0.2633	0.0049	0.0012	3.78E-05
rs10763979	10	34,602,764	A	G	0.6215	0.0092	0.0011	1.48E-17
rs60845448	10	43,721,462	T	C	0.1751	-0.0074	0.0014	7.62E-08
rs10994470	10	51,558,660	A	G	0.0390	0.0200	0.0027	2.12E-13
rs12146177	10	51,807,814	T	G	0.3744	-0.0059	0.0011	6.85E-08
rs10995839	10	52,900,447	A	C	0.8424	-0.0084	0.0014	5.24E-09
rs6480307	10	53,297,775	C	G	0.1398	0.0059	0.0015	9.35E-05
rs116193437	10	53,527,105	A	C	0.0258	0.0190	0.0034	2.31E-08
rs2454547	10	53,757,107	C	G	0.4123	-0.0081	0.0011	1.92E-14
rs10740572	10	55,838,740	A	T	0.7773	-0.0084	0.0013	1.92E-11
rs2061485	10	62,105,627	T	C	0.5122	0.0075	0.0010	8.37E-13
rs2588966	10	63,609,810	T	C	0.4527	0.0067	0.0011	2.02E-10

rs12761779	10	63,782,043	C	G	0.6465	-0.0066	0.0011	2.36E-09
rs72829007	10	64,087,955	T	G	0.9506	0.0127	0.0024	1.90E-07
rs10821992	10	64,163,029	A	T	0.3412	-0.0080	0.0011	5.86E-13
rs11592442	10	64,533,904	A	T	0.4237	-0.0032	0.0011	2.25E-03
rs7924036	10	65,191,645	T	G	0.5115	0.0141	0.0010	1.86E-41
rs3845187	10	65,515,652	A	G	0.4154	0.0079	0.0011	8.34E-14
rs10822275	10	65,818,459	A	G	0.8319	0.0089	0.0014	2.10E-10
rs35377646	10	66,652,165	A	G	0.8382	-0.0100	0.0016	9.98E-11
rs74740938	10	66,921,055	A	T	0.1186	0.0121	0.0016	8.30E-14
rs1670167	10	67,719,774	A	G	0.7334	-0.0061	0.0012	2.64E-07
rs12359372	10	67,767,951	T	C	0.6616	-0.0098	0.0011	7.16E-19
rs7919781	10	67,850,322	A	G	0.1990	-0.0113	0.0013	5.85E-18
rs10762069	10	68,208,954	C	G	0.6818	0.0105	0.0011	9.70E-21
rs6480222	10	68,580,501	A	T	0.8233	0.0088	0.0014	1.69E-10
rs77899607	10	68,691,900	T	C	0.1300	0.0131	0.0016	6.50E-17
rs10998036	10	70,016,678	C	G	0.2350	-0.0089	0.0012	5.13E-13
rs7082623	10	72,890,375	T	C	0.6895	0.0073	0.0011	1.42E-10
rs10740382	10	73,269,296	A	G	0.6197	0.0051	0.0011	2.52E-06
rs11000015	10	73,571,883	T	C	0.0852	-0.0084	0.0019	6.62E-06
rs4262652	10	74,127,853	A	G	0.6331	-0.0081	0.0011	1.57E-13
rs1134777	10	75,538,651	C	G	0.7507	-0.0099	0.0012	3.62E-16
rs79708660	10	75,785,466	A	G	0.2255	-0.0087	0.0013	1.09E-11
rs10824080	10	75,893,634	A	G	0.6171	-0.0067	0.0011	4.67E-10
rs2488697	10	77,054,052	T	C	0.2711	-0.0095	0.0012	5.88E-16
rs4617527	10	77,257,791	T	G	0.1259	-0.0088	0.0016	2.27E-08
rs11001967	10	78,768,415	A	G	0.4364	-0.0062	0.0011	4.13E-09
rs755043	10	80,110,426	A	G	0.5115	-0.0064	0.0010	1.22E-09
rs946516	10	80,609,135	T	C	0.6528	0.0062	0.0011	1.44E-08
rs2345617	10	82,797,583	C	G	0.2747	-0.0074	0.0012	2.33E-10
rs1591731	10	83,403,409	C	G	0.3623	0.0059	0.0011	5.82E-08
rs10736248	10	84,943,416	C	G	0.3415	-0.0070	0.0011	2.52E-10
rs10887465	10	87,016,897	A	C	0.2658	0.0128	0.0012	4.91E-27
rs2352430	10	87,800,136	T	C	0.7703	-0.0078	0.0012	3.11E-10
rs1902694	10	87,941,625	A	C	0.2387	0.0055	0.0012	8.79E-06
rs4934173	10	88,020,583	A	G	0.1962	-0.0074	0.0013	2.37E-08
rs2576172	10	90,255,615	T	C	0.6204	-0.0073	0.0011	1.42E-11
rs4933646	10	92,892,942	T	C	0.4762	-0.0054	0.0010	2.42E-07
rs2421694	10	93,516,104	A	G	0.5686	-0.0083	0.0011	2.99E-15
rs12358273	10	94,408,857	T	G	0.0441	0.0141	0.0026	4.38E-08
rs3736936	10	94,773,667	A	G	0.2830	-0.0073	0.0012	4.38E-10
rs11187572	10	95,409,668	A	G	0.4927	0.0056	0.0010	1.11E-07
rs6583943	10	96,259,443	A	G	0.4353	-0.0059	0.0011	2.74E-08
rs7078184	10	98,250,191	A	G	0.1968	-0.0081	0.0013	7.59E-10
rs871988	10	99,003,375	A	C	0.6694	0.0062	0.0011	2.52E-08
rs12242465	10	99,763,166	A	G	0.3214	-0.0098	0.0011	3.14E-18
rs34955138	10	102,039,187	T	G	0.5756	-0.0067	0.0011	2.80E-10
rs3740484	10	102,747,363	T	G	0.3153	0.0096	0.0011	1.51E-17
rs10786650	10	103,662,789	T	C	0.7050	0.0055	0.0011	1.95E-06

rs11191193	10	103,802,408	A	G	0.6552	0.0163	0.0011	1.42E-49
rs2479552	10	104,028,507	A	C	0.3772	0.0136	0.0011	1.56E-36
rs1046411	10	104,837,816	A	G	0.3266	-0.0124	0.0011	1.14E-28
rs1628768	10	105,012,994	T	C	0.7642	-0.0119	0.0012	6.53E-22
rs11191652	10	105,075,736	T	G	0.8617	0.0129	0.0017	9.22E-15
rs2491365	10	106,536,976	T	C	0.7297	0.0159	0.0012	2.08E-41
rs1490176	10	106,560,225	A	T	0.7200	0.0048	0.0012	3.30E-05
rs17197813	10	106,758,018	T	C	0.1350	0.0159	0.0015	3.02E-25
rs727341	10	106,925,538	T	C	0.7765	-0.0076	0.0013	1.41E-09
rs12772959	10	107,567,083	C	G	0.1650	0.0133	0.0014	5.28E-21
rs4522099	10	108,688,242	C	G	0.9314	0.0129	0.0021	4.60E-10
rs1338955	10	109,059,174	A	G	0.0762	-0.0131	0.0020	2.90E-11
rs17126938	10	111,761,351	T	C	0.8604	-0.0126	0.0015	5.79E-17
rs943262	10	114,111,348	C	G	0.5288	0.0058	0.0010	3.20E-08
rs7906919	10	114,440,341	T	C	0.3303	-0.0072	0.0011	1.18E-10
rs2104598	10	114,715,598	A	G	0.5300	-0.0067	0.0011	2.56E-10
rs7089262	10	114,893,489	T	C	0.0220	-0.0177	0.0036	8.25E-07
rs884507	10	115,118,856	A	G	0.0808	-0.0084	0.0019	1.17E-05
rs11196397	10	115,375,528	A	C	0.2731	0.0090	0.0012	2.22E-14
rs10886010	10	118,546,590	A	G	0.4200	-0.0087	0.0011	2.32E-16
rs4752164	10	120,221,217	T	C	0.6499	-0.0068	0.0011	4.74E-10
rs4962661	10	126,266,790	A	G	0.3543	0.0047	0.0011	2.02E-05
rs2629540	10	126,426,148	C	G	0.2457	0.0089	0.0012	2.74E-13
rs11245450	10	126,658,075	A	G	0.4236	0.0069	0.0011	1.06E-10
rs2886405	10	127,152,944	T	G	0.3604	0.0083	0.0011	2.71E-14
rs10741228	10	129,152,153	T	C	0.4316	-0.0064	0.0011	1.34E-09
rs113173614	10	130,496,276	T	C	0.0923	-0.0104	0.0018	1.21E-08
rs12260313	10	131,692,815	T	C	0.2985	0.0071	0.0011	5.37E-10
rs10765063	10	133,094,696	A	G	0.4732	0.0091	0.0010	4.96E-18
rs17881016	10	133,729,181	A	G	0.7390	-0.0131	0.0012	5.27E-28
rs2035806	10	133,984,916	A	G	0.5482	0.0075	0.0011	1.38E-12
rs12768641	10	134,966,154	A	G	0.7614	0.0094	0.0012	1.99E-14
rs7936322	11	745,884	T	C	0.4945	-0.0059	0.0010	2.04E-08
rs12808343	11	1,418,450	A	G	0.7646	0.0045	0.0012	2.89E-04
rs34423561	11	1,552,276	A	G	0.0090	0.0328	0.0057	7.21E-09
rs117520198	11	2,212,843	A	G	0.1911	0.0107	0.0013	1.01E-15
rs10743083	11	8,636,350	A	G	0.1775	0.0082	0.0014	3.26E-09
rs4405299	11	11,258,197	T	C	0.4669	0.0066	0.0010	3.37E-10
rs10831656	11	11,660,815	T	C	0.3106	0.0079	0.0011	2.90E-12
rs1866710	11	12,875,312	A	G	0.2828	-0.0145	0.0012	1.07E-35
rs4757143	11	13,329,139	T	C	0.8659	0.0078	0.0015	3.93E-07
rs72869952	11	16,311,761	A	G	0.8265	0.0067	0.0014	1.36E-06
rs10832667	11	16,683,176	T	C	0.2097	-0.0068	0.0013	1.48E-07
rs2355468	11	17,668,754	A	C	0.6124	-0.0068	0.0012	9.70E-09
rs2283250	11	17,820,177	A	G	0.4843	-0.0078	0.0010	1.13E-13
rs11025422	11	20,200,744	A	G	0.5291	-0.0051	0.0010	1.33E-06
rs2293241	11	20,949,115	T	C	0.7120	0.0074	0.0012	1.50E-10
rs12225836	11	21,922,163	C	G	0.7459	0.0055	0.0012	5.05E-06

rs2290046	11	22,384,166	A	G	0.1184	-0.0067	0.0016	3.79E-05
rs11027948	11	24,511,844	A	C	0.3814	0.0053	0.0011	1.04E-06
rs11028323	11	25,009,896	A	C	0.5149	-0.0098	0.0010	6.20E-21
rs10835211	11	27,701,365	A	G	0.2460	-0.0122	0.0012	7.76E-24
rs10835389	11	28,676,505	T	C	0.6491	-0.0095	0.0011	4.03E-18
rs78813058	11	29,054,087	A	C	0.0874	-0.0169	0.0019	7.41E-20
rs322627	11	29,731,571	C	G	0.3777	-0.0100	0.0011	1.96E-20
rs117407988	11	30,438,344	A	G	0.0309	0.0174	0.0030	8.50E-09
rs586875	11	30,755,937	A	G	0.4245	0.0080	0.0011	2.96E-14
rs1402954	11	33,777,334	T	C	0.0966	0.0146	0.0018	1.71E-16
rs10742344	11	35,428,126	A	G	0.3986	0.0048	0.0011	6.06E-06
rs1481294	11	38,604,075	A	G	0.4531	-0.0068	0.0011	7.87E-11
rs7109373	11	39,928,045	A	T	0.8040	0.0104	0.0013	2.90E-15
rs76708186	11	40,157,917	T	C	0.0737	0.0091	0.0020	5.99E-06
rs10768668	11	41,165,371	A	G	0.1805	-0.0094	0.0014	5.32E-12
rs74969066	11	43,264,801	T	C	0.0700	0.0124	0.0021	1.46E-09
rs11601363	11	43,589,812	A	G	0.4654	0.0061	0.0010	4.99E-09
rs1023955	11	43,608,835	T	G	0.3992	-0.0058	0.0011	5.78E-08
rs80171383	11	46,084,677	A	G	0.1355	0.0146	0.0015	1.18E-21
rs112026260	11	46,101,304	T	C	0.0530	0.0148	0.0023	2.72E-10
rs12363232	11	47,623,890	T	C	0.3503	0.0057	0.0011	2.25E-07
rs527528	11	57,433,327	T	C	0.3292	-0.0093	0.0011	5.99E-17
rs117933564	11	57,453,231	A	G	0.0290	-0.0139	0.0032	1.12E-05
rs77128898	11	61,313,525	T	C	0.0334	-0.0242	0.0029	2.09E-16
rs592931	11	61,496,751	T	C	0.3607	0.0088	0.0011	6.42E-16
rs78278641	11	62,413,662	T	C	0.1373	0.0122	0.0015	1.19E-15
rs147417731	11	62,435,507	T	C	0.9846	-0.0264	0.0043	9.16E-10
rs2845887	11	63,867,523	T	C	0.3473	0.0060	0.0011	5.36E-08
rs658938	11	65,651,830	A	G	0.1940	-0.0124	0.0013	1.00E-20
rs186234792	11	65,796,752	A	G	0.9715	0.0150	0.0032	2.13E-06
rs76878669	11	66,092,567	C	G	0.7581	0.0121	0.0012	6.48E-23
rs3825021	11	67,434,936	T	C	0.4931	-0.0061	0.0011	7.75E-09
rs541243995	11	68,183,145	A	G	0.5628	0.0080	0.0012	6.20E-11
rs73516862	11	68,245,648	T	C	0.7296	0.0101	0.0012	1.28E-17
rs114109036	11	68,902,740	T	C	0.0342	0.0121	0.0029	2.72E-05
rs61887439	11	70,249,399	A	G	0.1302	-0.0063	0.0016	5.33E-05
rs895204	11	70,662,057	A	G	0.1330	-0.0123	0.0015	1.19E-15
rs458437	11	72,359,204	T	G	0.6764	0.0129	0.0011	1.46E-30
rs11601122	11	72,362,718	A	G	0.8416	0.0164	0.0014	1.81E-30
rs150470230	11	73,466,863	A	G	0.9723	0.0214	0.0032	3.33E-11
rs56294280	11	76,238,914	A	G	0.3212	-0.0083	0.0011	1.28E-13
rs1440980	11	76,495,076	T	C	0.2287	0.0141	0.0012	9.25E-30
rs1670459	11	76,998,753	C	G	0.6083	-0.0080	0.0011	6.55E-14
rs477723	11	78,554,599	T	C	0.3745	0.0078	0.0011	7.12E-13
rs112209391	11	79,151,784	T	C	0.1044	0.0139	0.0017	4.34E-16
rs10899644	11	79,233,931	C	G	0.1736	0.0088	0.0014	1.68E-10
rs10792468	11	79,898,818	T	C	0.3373	-0.0078	0.0011	1.45E-12
rs1880692	11	80,338,069	A	G	0.5376	0.0077	0.0010	2.78E-13

rs11232556	11	80,942,684	A	G	0.6073	0.0059	0.0011	3.03E-08
rs59426273	11	82,784,316	T	C	0.1588	-0.0073	0.0014	2.87E-07
rs61899030	11	84,373,496	T	G	0.6732	0.0061	0.0011	5.13E-08
rs11234234	11	84,613,381	A	T	0.5252	0.0060	0.0010	8.45E-09
rs561655	11	85,800,279	A	G	0.6553	-0.0089	0.0011	5.69E-16
rs1472422	11	85,944,681	T	G	0.2625	0.0066	0.0012	3.19E-08
rs17149318	11	86,416,819	T	G	0.8309	-0.0057	0.0014	3.97E-05
rs11822787	11	87,905,860	T	C	0.4435	-0.0076	0.0011	6.59E-13
rs645327	11	88,588,786	T	C	0.6717	-0.0072	0.0011	1.03E-10
rs511468	11	90,056,654	T	C	0.5013	-0.0081	0.0010	9.10E-15
rs7127256	11	90,525,490	A	G	0.4132	-0.0081	0.0011	3.35E-14
rs11608221	11	91,876,900	C	G	0.5328	0.0080	0.0010	1.65E-14
rs526296	11	92,328,229	T	C	0.1480	0.0081	0.0015	4.74E-08
rs11020370	11	93,204,641	T	C	0.8226	-0.0080	0.0014	5.57E-09
rs7126188	11	93,277,266	T	C	0.5670	0.0056	0.0011	1.07E-07
rs964039	11	94,774,311	T	C	0.7203	0.0065	0.0012	3.47E-08
rs10765775	11	95,656,362	A	G	0.3878	0.0159	0.0022	1.70E-13
rs10765789	11	95,839,543	A	G	0.3827	0.0108	0.0011	1.35E-23
rs56178002	11	96,060,832	T	C	0.5550	0.0052	0.0011	8.32E-07
rs2919030	11	96,616,865	T	G	0.3534	0.0053	0.0011	1.41E-06
rs4753925	11	98,771,391	T	C	0.7142	0.0074	0.0012	1.73E-10
rs2155563	11	98,981,485	A	T	0.5823	0.0088	0.0011	1.13E-16
rs2089171	11	99,284,506	A	G	0.6341	-0.0068	0.0011	3.97E-10
rs1219062	11	99,621,717	T	C	0.3197	-0.0075	0.0011	2.06E-11
rs10501955	11	100,081,589	C	G	0.6115	0.0048	0.0011	6.44E-06
rs12798282	11	101,418,257	T	G	0.8728	-0.0090	0.0016	1.04E-08
rs10895719	11	104,563,483	T	C	0.7871	-0.0107	0.0013	6.65E-17
rs11226856	11	105,699,048	A	G	0.6314	-0.0077	0.0011	1.13E-12
rs1939800	11	105,814,770	T	C	0.3833	0.0083	0.0011	1.51E-14
rs1388168	11	107,137,917	A	G	0.5022	-0.0067	0.0010	1.77E-10
rs10890995	11	109,327,622	A	G	0.2999	-0.0092	0.0011	7.77E-16
rs226119	11	110,661,902	T	C	0.5616	0.0053	0.0011	4.46E-07
rs17536059	11	110,957,335	C	G	0.1730	-0.0077	0.0014	2.33E-08
rs61899382	11	111,516,360	T	C	0.1146	-0.0008	0.0016	6.18E-01
rs17565975	11	111,586,950	A	G	0.5529	-0.0121	0.0011	1.25E-30
rs59867819	11	112,833,246	T	G	0.1171	-0.0101	0.0016	5.88E-10
rs7125588	11	113,436,072	A	G	0.5656	-0.0100	0.0011	4.12E-21
rs12280220	11	113,469,219	T	C	0.7198	0.0093	0.0012	1.59E-15
rs648044	11	114,030,799	A	G	0.3825	0.0061	0.0011	2.02E-08
rs12807135	11	115,053,508	C	G	0.5126	-0.0105	0.0010	9.36E-24
rs7102093	11	115,455,085	A	G	0.2749	0.0060	0.0012	2.99E-07
rs2512569	11	115,725,072	T	C	0.5327	0.0056	0.0010	8.40E-08
rs1145178	11	115,791,534	A	T	0.4285	0.0059	0.0011	2.35E-08
rs7121640	11	116,155,104	C	G	0.4199	0.0080	0.0011	4.98E-14
rs7123652	11	117,377,518	T	C	0.7670	-0.0073	0.0012	3.22E-09
rs12225399	11	118,480,285	C	G	0.3500	-0.0065	0.0011	2.71E-09
rs11217548	11	119,742,803	T	C	0.0626	0.0104	0.0022	1.48E-06
rs12806740	11	120,203,628	A	G	0.3821	-0.0088	0.0011	4.40E-16

rs4297478	11	120,435,854	T	C	0.5509	-0.0092	0.0011	1.91E-18
rs627532	11	120,826,131	T	C	0.6230	0.0055	0.0011	2.74E-07
rs78655387	11	121,343,435	T	C	0.0271	-0.0239	0.0033	3.36E-13
rs144916412	11	121,449,806	A	G	0.0175	-0.0178	0.0040	8.65E-06
rs61905478	11	121,809,018	A	G	0.7297	-0.0090	0.0012	3.22E-14
rs596160	11	121,982,707	A	G	0.4223	-0.0102	0.0011	7.94E-22
rs4127499	11	122,176,383	A	G	0.3450	0.0110	0.0011	2.90E-23
rs12421055	11	122,528,352	A	C	0.7530	0.0041	0.0012	6.57E-04
rs1981408	11	122,638,643	T	C	0.5159	0.0054	0.0010	2.54E-07
rs1029278	11	123,421,402	A	G	0.3330	0.0063	0.0011	1.71E-08
rs752806	11	126,293,239	A	T	0.4710	-0.0074	0.0011	1.69E-12
rs117256336	11	126,607,115	A	G	0.0670	-0.0108	0.0021	3.28E-07
rs1793656	11	126,778,513	A	G	0.1872	0.0061	0.0013	5.03E-06
rs7124673	11	127,257,366	A	G	0.4235	-0.0040	0.0011	1.42E-04
rs12272462	11	128,526,406	A	G	0.7325	0.0075	0.0012	2.53E-10
rs1650820	11	129,762,407	A	G	0.7074	0.0068	0.0012	2.78E-09
rs1655496	11	130,905,452	A	G	0.6394	-0.0053	0.0011	1.24E-06
rs12574281	11	131,205,421	A	C	0.6334	-0.0072	0.0011	4.52E-11
rs1448355	11	131,286,685	T	C	0.6238	0.0085	0.0011	3.35E-15
rs371425	11	131,408,517	T	G	0.2086	-0.0086	0.0013	3.13E-11
rs529006	11	131,791,792	A	G	0.4480	0.0051	0.0011	1.18E-06
rs1620329	11	132,577,443	A	G	0.5378	0.0049	0.0011	3.32E-06
rs4936175	11	132,641,959	T	C	0.5615	0.0083	0.0011	4.87E-15
rs1506876	11	132,717,613	T	C	0.5542	-0.0044	0.0011	2.60E-05
rs1941213	11	133,125,329	A	C	0.7280	-0.0059	0.0012	4.39E-07
rs10791303	11	133,531,999	T	C	0.6202	0.0088	0.0011	4.60E-16
rs329645	11	133,813,168	T	C	0.7240	0.0051	0.0012	1.23E-05
rs12273435	11	133,825,855	A	G	0.2010	-0.0141	0.0013	6.11E-27
rs10894784	11	134,061,599	A	G	0.6756	0.0074	0.0011	4.59E-11
rs7951841	11	134,539,911	T	C	0.1442	0.0111	0.0015	1.18E-13
rs11614957	12	195,309	A	G	0.4423	0.0121	0.0011	2.82E-30
rs11571404	12	1,041,450	T	C	0.1971	0.0088	0.0013	3.27E-11
rs2108641	12	1,973,329	T	C	0.1300	0.0123	0.0016	2.64E-15
rs115124024	12	2,365,908	A	C	0.9505	0.0178	0.0024	1.47E-13
rs4765720	12	3,308,296	C	G	0.7641	-0.0055	0.0012	7.12E-06
rs4766116	12	3,531,742	A	G	0.1817	0.0055	0.0014	5.89E-05
rs115743600	12	4,042,500	A	G	0.0455	-0.0127	0.0025	4.57E-07
rs3217870	12	4,400,111	T	C	0.6188	-0.0059	0.0011	6.00E-08
rs12817050	12	6,032,138	A	G	0.4255	0.0049	0.0011	3.70E-06
rs61159922	12	6,866,260	A	G	0.1035	-0.0097	0.0017	1.94E-08
rs61919240	12	8,831,954	A	T	0.3175	0.0061	0.0011	6.55E-08
rs117424609	12	9,094,982	A	G	0.9615	0.0158	0.0027	8.12E-09
rs2723827	12	11,929,481	A	G	0.1841	-0.0077	0.0014	1.22E-08
rs78631600	12	12,419,719	T	G	0.0783	-0.0181	0.0019	1.64E-20
rs34325	12	12,877,692	T	C	0.4693	-0.0076	0.0010	3.27E-13
rs10772644	12	13,417,617	C	G	0.8916	0.0140	0.0017	1.05E-16
rs1479119	12	13,505,496	A	G	0.4380	-0.0059	0.0011	2.79E-08
rs12822453	12	13,694,821	A	G	0.1888	0.0060	0.0013	7.19E-06

rs220567	12	13,954,403	C	G	0.3927	0.0074	0.0011	4.54E-12
rs1019385	12	14,134,843	A	C	0.4582	-0.0067	0.0011	1.86E-10
rs7304399	12	14,645,350	A	G	0.4606	0.0109	0.0010	2.16E-25
rs7303854	12	15,359,241	A	T	0.3313	-0.0101	0.0011	7.93E-20
rs10846255	12	16,094,161	A	G	0.2311	-0.0069	0.0012	3.31E-08
rs2160514	12	16,756,508	A	C	0.5614	-0.0111	0.0011	5.90E-26
rs842463	12	17,095,055	T	C	0.3838	-0.0071	0.0011	4.48E-11
rs7314674	12	17,458,773	A	C	0.4061	0.0035	0.0011	1.17E-03
rs12305290	12	18,399,464	A	G	0.1728	-0.0087	0.0014	3.36E-10
rs1490706	12	19,108,231	T	C	0.3543	-0.0057	0.0011	1.82E-07
rs111552936	12	19,439,238	A	T	0.9693	0.0156	0.0032	7.93E-07
rs2046602	12	22,791,447	A	C	0.5352	0.0054	0.0011	2.36E-07
rs958131	12	23,071,252	A	G	0.3941	0.0100	0.0011	7.55E-21
rs4964068	12	23,304,932	A	T	0.5279	-0.0062	0.0011	4.99E-09
rs10770968	12	23,313,880	T	G	0.5093	-0.0015	0.0010	1.48E-01
rs7137535	12	23,945,031	T	C	0.8639	-0.0112	0.0015	3.54E-13
rs10842296	12	24,395,272	T	C	0.2448	0.0074	0.0012	1.45E-09
rs12816214	12	24,866,863	A	G	0.0404	-0.0150	0.0027	1.66E-08
rs17470040	12	26,527,776	T	G	0.9033	0.0128	0.0018	5.77E-13
rs11613431	12	26,684,343	A	G	0.2610	-0.0088	0.0012	2.17E-13
rs12828220	12	27,397,792	T	C	0.6333	-0.0097	0.0011	2.79E-19
rs7975536	12	31,781,247	T	C	0.1991	0.0102	0.0013	8.98E-15
rs16919774	12	32,502,505	A	T	0.7873	-0.0093	0.0013	2.67E-13
rs116887621	12	39,643,967	T	C	0.0171	0.0173	0.0041	2.57E-05
rs574918	12	40,357,647	A	G	0.1586	-0.0064	0.0014	8.93E-06
rs11181124	12	42,115,447	T	C	0.7868	-0.0083	0.0013	1.06E-10
rs2731034	12	45,422,236	A	G	0.5959	0.0060	0.0011	1.70E-08
rs35125	12	46,274,858	A	G	0.5129	-0.0072	0.0010	8.27E-12
rs11534993	12	46,817,562	T	C	0.3733	0.0082	0.0011	3.79E-14
rs547370614	12	46,840,639	T	C	0.9957	0.0323	0.0085	1.37E-04
rs2293445	12	49,398,862	A	G	0.3840	0.0119	0.0011	3.23E-28
rs1126930	12	49,399,132	C	G	0.0340	-0.0158	0.0029	5.93E-08
rs933738	12	49,943,122	A	G	0.8199	-0.0124	0.0014	7.67E-20
rs2280503	12	51,138,687	A	C	0.6670	-0.0049	0.0011	8.87E-06
rs7313065	12	53,471,218	A	C	0.1710	-0.0096	0.0014	6.04E-12
rs58905411	12	54,623,132	A	G	0.3940	0.0100	0.0011	1.27E-20
rs75073462	12	55,160,397	A	C	0.1696	0.0060	0.0014	1.75E-05
rs11611029	12	56,385,579	T	C	0.4460	-0.0147	0.0011	4.98E-44
rs1689510	12	56,396,768	C	G	0.3272	0.0174	0.0011	3.98E-55
rs1800139	12	57,585,144	T	C	0.6823	0.0082	0.0012	1.67E-11
rs11172371	12	58,286,188	T	C	0.3227	-0.0107	0.0011	1.23E-21
rs12425533	12	59,367,493	A	G	0.7542	-0.0075	0.0012	7.40E-10
rs7315745	12	59,850,788	A	G	0.5973	0.0065	0.0011	1.47E-09
rs61923341	12	60,846,830	A	G	0.8276	-0.0114	0.0014	1.80E-16
rs7975065	12	62,680,603	A	G	0.3058	0.0080	0.0011	2.63E-12
rs1081781	12	63,347,818	A	G	0.6952	-0.0049	0.0011	1.96E-05
rs7131691	12	64,540,960	A	G	0.4705	-0.0075	0.0011	1.09E-12
rs7302284	12	67,368,127	A	C	0.6151	0.0057	0.0011	1.33E-07

rs35079242	12	68,230,208	T	G	0.1320	-0.0093	0.0015	1.70E-09
rs2090324	12	73,563,917	T	C	0.3325	-0.0045	0.0011	5.17E-05
rs11179772	12	74,140,098	T	C	0.5829	-0.0073	0.0011	5.14E-12
rs77701788	12	74,937,141	A	G	0.8788	-0.0107	0.0016	2.05E-11
rs9888376	12	77,644,553	T	C	0.5713	-0.0059	0.0011	2.63E-08
rs6539284	12	79,592,680	T	C	0.5931	-0.0072	0.0011	1.38E-11
rs10862376	12	82,257,633	A	T	0.1473	0.0134	0.0015	8.89E-20
rs1517825	12	83,557,444	C	G	0.4746	-0.0045	0.0011	1.53E-05
rs717997	12	84,133,974	A	G	0.4176	0.0130	0.0011	2.49E-34
rs111788495	12	87,473,626	T	G	0.0333	-0.0227	0.0034	1.80E-11
rs73197422	12	88,045,706	A	G	0.9276	-0.0129	0.0020	1.64E-10
rs2279574	12	89,745,477	A	C	0.5354	0.0106	0.0010	8.53E-24
rs2520511	12	91,005,153	T	C	0.6655	-0.0062	0.0011	2.63E-08
rs7967550	12	92,145,307	A	G	0.3946	-0.0057	0.0011	8.96E-08
rs1434714	12	94,432,101	T	C	0.7575	0.0075	0.0012	9.79E-10
rs7296742	12	95,147,249	A	G	0.2849	-0.0086	0.0012	2.06E-13
rs78345136	12	97,581,344	T	C	0.9305	-0.0112	0.0021	4.90E-08
rs2216144	12	97,666,478	T	C	0.5306	0.0073	0.0010	3.70E-12
rs12320913	12	97,722,202	A	C	0.2720	0.0060	0.0012	4.05E-07
rs10860215	12	97,863,578	T	C	0.1340	-0.0091	0.0015	3.04E-09
rs10860219	12	97,959,792	A	G	0.8352	0.0086	0.0014	1.14E-09
rs10467002	12	98,574,502	T	G	0.3184	0.0056	0.0011	6.45E-07
rs7955363	12	98,993,356	C	G	0.0900	-0.0096	0.0018	1.58E-07
rs12314891	12	99,578,434	A	G	0.7338	-0.0081	0.0012	6.04E-12
rs61940318	12	100,263,190	A	G	0.1974	-0.0083	0.0013	2.18E-10
rs1514802	12	101,137,570	A	G	0.7553	-0.0058	0.0012	1.65E-06
rs112650421	12	101,399,617	T	G	0.0236	-0.0206	0.0035	2.72E-09
rs7397905	12	101,537,184	A	G	0.8347	0.0099	0.0014	2.30E-12
rs11111443	12	103,495,380	A	G	0.6334	0.0072	0.0011	2.81E-11
rs7313632	12	104,991,564	A	G	0.6451	0.0053	0.0011	1.13E-06
rs4356312	12	105,450,773	T	C	0.1784	-0.0079	0.0014	7.00E-09
rs10778466	12	106,788,013	T	C	0.7675	0.0117	0.0012	3.90E-21
rs116075459	12	106,807,888	A	C	0.7818	0.0124	0.0015	1.94E-17
rs2098432	12	107,677,693	A	G	0.3665	-0.0088	0.0011	7.49E-16
rs4964731	12	109,057,809	A	C	0.4815	-0.0071	0.0010	1.37E-11
rs918106	12	109,904,318	T	C	0.5376	-0.0078	0.0010	1.27E-13
rs7977614	12	110,115,286	A	G	0.7172	-0.0112	0.0012	2.53E-21
rs6490044	12	116,383,865	T	G	0.9170	0.0108	0.0019	1.27E-08
rs61937390	12	116,727,586	T	C	0.0927	-0.0100	0.0018	2.62E-08
rs79644799	12	117,525,789	T	G	0.1495	0.0114	0.0015	1.11E-14
rs1045542	12	118,855,432	A	G	0.0940	0.0089	0.0018	7.73E-07
rs12313886	12	119,349,630	T	C	0.2410	0.0067	0.0012	3.88E-08
rs4238064	12	119,815,811	A	T	0.7280	-0.0053	0.0012	7.03E-06
rs574967	12	120,227,740	A	G	0.3273	0.0076	0.0011	1.12E-11
rs149308817	12	121,029,332	A	G	0.0554	-0.0032	0.0023	1.65E-01
rs542189	12	121,032,542	T	G	0.2302	0.0080	0.0012	1.45E-10
rs2859263	12	121,072,799	T	C	0.5619	-0.0085	0.0011	7.99E-16
rs660549	12	121,300,988	T	C	0.5742	-0.0104	0.0011	8.99E-23

rs34933970	12	122,172,424	A	C	0.4769	-0.0088	0.0010	5.36E-17
rs77538769	12	122,187,824	A	C	0.9516	0.0195	0.0028	4.58E-12
rs143838180	12	122,216,221	A	G	0.0428	-0.0194	0.0026	6.42E-14
rs6489071	12	123,025,576	C	G	0.2693	-0.0115	0.0012	1.81E-22
rs7306755	12	123,767,929	A	G	0.2045	0.0190	0.0013	2.51E-48
rs34086857	12	125,056,100	A	C	0.8577	-0.0076	0.0015	4.50E-07
rs12426133	12	125,116,400	A	G	0.2122	-0.0033	0.0013	9.26E-03
rs11060630	12	130,458,508	T	C	0.2699	0.0063	0.0012	1.11E-07
rs10744457	12	130,745,841	A	C	0.2933	0.0089	0.0012	1.28E-14
rs2632667	12	131,271,293	A	G	0.5062	-0.0062	0.0010	3.84E-09
rs1107871	12	132,240,659	A	G	0.5520	-0.0086	0.0011	4.29E-16
rs4883624	12	133,212,737	T	C	0.4473	-0.0069	0.0011	5.98E-11
rs11147235	12	133,688,707	T	C	0.8155	-0.0073	0.0014	7.84E-08
rs7983020	13	21,239,941	T	C	0.7151	-0.0089	0.0012	1.34E-14
rs73446806	13	28,123,179	T	C	0.1626	0.0075	0.0014	1.08E-07
rs610545	13	30,531,401	A	G	0.9099	0.0089	0.0018	1.10E-06
rs9551887	13	30,884,268	T	C	0.5490	-0.0080	0.0011	2.88E-14
rs9315108	13	31,645,518	T	C	0.5508	0.0081	0.0011	1.37E-14
rs4943290	13	31,836,367	T	G	0.2998	-0.0080	0.0011	3.16E-12
rs9543390	13	31,852,385	T	C	0.7834	-0.0124	0.0013	1.43E-22
rs1207953	13	32,977,532	C	G	0.6190	-0.0080	0.0011	1.64E-13
rs772646	13	33,026,356	A	G	0.3587	0.0075	0.0011	5.90E-12
rs2202780	13	35,295,773	A	G	0.7416	-0.0074	0.0012	7.72E-10
rs9545395	13	36,370,970	T	C	0.8663	0.0101	0.0015	5.69E-11
rs9576167	13	37,649,395	T	C	0.5802	0.0061	0.0011	1.10E-08
rs17257579	13	38,176,607	T	C	0.8755	-0.0131	0.0016	1.40E-16
rs7997862	13	42,571,136	A	G	0.5587	0.0081	0.0011	1.15E-14
rs238257	13	42,924,883	C	G	0.4816	0.0075	0.0010	1.04E-12
rs61951891	13	43,891,881	T	C	0.3318	0.0056	0.0011	5.35E-07
rs9595290	13	45,879,770	A	C	0.9301	0.0084	0.0021	5.25E-05
rs1469595	13	47,640,886	A	C	0.4884	0.0079	0.0010	5.20E-14
rs558003	13	51,172,963	A	G	0.0965	0.0095	0.0018	7.90E-08
rs9526753	13	51,956,122	T	C	0.3907	-0.0054	0.0011	5.37E-07
rs6561699	13	53,557,757	T	C	0.3125	0.0075	0.0011	2.93E-11
rs1891942	13	53,673,897	T	C	0.4004	-0.0067	0.0011	3.14E-10
rs77187837	13	54,086,522	T	C	0.1223	0.0129	0.0016	5.83E-16
rs9316676	13	54,477,629	A	G	0.7341	-0.0094	0.0012	2.90E-15
rs2873233	13	55,814,397	T	C	0.6493	-0.0088	0.0011	9.60E-16
rs9537509	13	57,509,685	T	C	0.7447	-0.0070	0.0012	5.32E-09
rs1334297	13	58,335,375	A	G	0.7407	0.0240	0.0012	8.08E-90
rs1856810	13	59,565,064	T	C	0.4175	-0.0079	0.0011	8.27E-14
rs59483928	13	59,837,062	T	G	0.6642	0.0061	0.0011	4.23E-08
rs9538524	13	60,369,746	T	C	0.2523	0.0112	0.0012	1.54E-20
rs7997690	13	60,779,722	T	C	0.6331	0.0090	0.0011	1.28E-16
rs7986933	13	60,970,021	A	C	0.1944	0.0078	0.0013	4.53E-09
rs9317202	13	62,355,464	T	C	0.7027	0.0098	0.0011	1.27E-17
rs269632	13	64,618,043	T	C	0.4003	-0.0071	0.0011	2.30E-11
rs73197928	13	66,399,353	A	G	0.9900	0.0241	0.0054	8.86E-06

rs61957702	13	66,721,884	C	G	0.8211	0.0085	0.0014	4.25E-10
rs9540731	13	66,949,370	T	C	0.5052	0.0107	0.0010	9.93E-25
rs9317593	13	67,076,574	A	G	0.1478	-0.0130	0.0015	9.22E-19
rs9317615	13	67,378,152	T	C	0.5744	0.0058	0.0011	3.73E-08
rs9541123	13	68,047,452	T	C	0.6217	-0.0077	0.0011	1.22E-12
rs11842044	13	69,071,798	A	C	0.7698	-0.0092	0.0012	1.80E-13
rs2492553	13	69,466,320	A	C	0.5420	0.0101	0.0011	6.43E-22
rs4884900	13	71,258,258	C	G	0.4241	-0.0091	0.0011	1.27E-17
rs17088142	13	71,948,305	T	G	0.4691	-0.0068	0.0010	7.51E-11
rs9530562	13	77,158,633	T	G	0.6453	-0.0062	0.0011	1.13E-08
rs348036	13	80,792,899	T	G	0.1936	-0.0080	0.0013	2.05E-09
rs7988627	13	81,631,782	A	G	0.5688	-0.0077	0.0011	2.61E-13
rs9574993	13	82,485,367	T	C	0.3631	0.0060	0.0011	4.34E-08
rs7981839	13	84,061,991	A	C	0.8194	0.0083	0.0014	1.30E-09
rs6563363	13	84,307,786	T	G	0.3732	-0.0092	0.0011	1.70E-17
rs9546554	13	84,558,285	A	G	0.7983	0.0081	0.0013	5.08E-10
rs9565961	13	85,245,931	T	C	0.1569	-0.0118	0.0014	1.95E-16
rs11841508	13	88,683,971	T	C	0.3006	0.0070	0.0011	7.18E-10
rs7319397	13	89,190,682	A	G	0.4840	-0.0042	0.0010	5.82E-05
rs7326484	13	89,733,492	A	T	0.2142	0.0077	0.0013	1.98E-09
rs9560707	13	91,509,113	A	T	0.7000	0.0102	0.0011	5.69E-19
rs75624576	13	91,973,215	T	G	0.1004	0.0154	0.0017	1.36E-18
rs7320982	13	92,019,926	T	C	0.7684	0.0104	0.0012	6.90E-17
rs1411753	13	92,891,784	C	G	0.3244	-0.0069	0.0011	5.80E-10
rs4528437	13	93,191,905	T	C	0.3241	0.0059	0.0011	1.33E-07
rs2813619	13	94,105,544	T	G	0.1387	0.0091	0.0015	1.96E-09
rs502029	13	94,804,243	A	G	0.3373	-0.0054	0.0011	1.17E-06
rs12429254	13	96,299,663	T	C	0.1104	0.0084	0.0017	5.33E-07
rs2182066	13	96,970,876	T	C	0.9169	-0.0137	0.0019	5.11E-13
rs7316999	13	97,499,150	A	G	0.0620	0.0175	0.0022	8.57E-16
rs76853788	13	97,794,660	C	G	0.0477	-0.0136	0.0025	2.99E-08
rs1973419	13	97,976,147	T	C	0.4903	0.0075	0.0010	7.51E-13
rs9513416	13	99,055,774	A	G	0.8474	-0.0111	0.0015	2.49E-14
rs1969794	13	99,090,168	T	G	0.3299	-0.0083	0.0012	1.54E-12
rs12261	13	99,100,547	T	C	0.4193	0.0125	0.0011	5.10E-32
rs3783006	13	99,111,209	C	G	0.4488	0.0131	0.0011	1.69E-35
rs9513725	13	100,735,511	A	G	0.4098	0.0091	0.0011	1.72E-17
rs1765749	13	101,378,195	A	G	0.2463	-0.0079	0.0012	8.93E-11
rs568012	13	101,983,857	A	G	0.4540	0.0043	0.0011	5.23E-05
rs1537933	13	102,923,847	A	G	0.7138	0.0082	0.0012	1.89E-12
rs117979136	13	105,780,736	A	G	0.0308	0.0195	0.0030	1.16E-10
rs9558526	13	105,956,232	A	C	0.3010	-0.0073	0.0011	2.06E-10
rs72656488	13	107,139,203	A	G	0.1513	-0.0076	0.0015	2.22E-07
rs7327539	13	107,588,707	A	G	0.6910	-0.0092	0.0011	5.95E-16
rs78667595	13	109,706,967	A	G	0.0917	-0.0125	0.0018	7.56E-12
rs2182918	13	110,032,857	T	G	0.4911	0.0059	0.0010	1.34E-08
rs9555651	13	110,587,023	T	C	0.1673	0.0111	0.0014	3.03E-15
rs61969310	13	111,585,556	T	G	0.6253	0.0048	0.0011	1.13E-05

rs1555752	13	111,976,581	T	C	0.5585	0.0056	0.0011	9.69E-08
rs2316463	13	113,901,406	T	C	0.2325	0.0070	0.0012	1.89E-08
rs10145520	14	21,930,932	T	G	0.8074	-0.0126	0.0013	2.47E-21
rs11157931	14	23,403,193	A	C	0.3923	-0.0115	0.0011	5.98E-27
rs2231301	14	23,777,099	A	G	0.2227	-0.0070	0.0013	3.12E-08
rs11623285	14	24,557,642	T	G	0.8654	-0.0130	0.0015	3.97E-17
rs2025258	14	24,654,489	T	C	0.6519	0.0067	0.0011	1.23E-09
rs2223928	14	26,567,802	T	C	0.5490	0.0065	0.0011	6.19E-10
rs8020023	14	26,981,079	A	G	0.2379	0.0145	0.0012	6.34E-32
rs61983095	14	28,782,734	T	G	0.8006	0.0094	0.0013	7.81E-13
rs144225846	14	29,632,841	T	C	0.9931	0.0425	0.0065	4.68E-11
rs12897763	14	29,638,938	A	G	0.1911	0.0197	0.0013	1.73E-49
rs72671456	14	29,662,737	A	G	0.1399	-0.0179	0.0015	2.00E-32
rs72673540	14	29,822,264	T	C	0.0957	-0.0208	0.0018	5.66E-31
rs1191570	14	29,958,256	A	C	0.3224	0.0050	0.0011	6.72E-06
rs4981711	14	30,074,001	T	C	0.6167	0.0084	0.0011	7.80E-15
rs7147473	14	30,608,538	A	G	0.6733	-0.0095	0.0011	1.16E-17
rs72662300	14	30,767,400	T	G	0.3327	0.0102	0.0011	3.63E-20
rs10130738	14	30,831,113	A	T	0.8729	-0.0074	0.0016	2.61E-06
rs1951173	14	30,917,230	T	C	0.1567	-0.0074	0.0014	3.20E-07
rs11627900	14	33,100,829	A	G	0.7177	-0.0068	0.0012	3.89E-09
rs17522122	14	33,302,882	T	G	0.4767	-0.0118	0.0010	2.24E-29
rs11851667	14	33,588,830	T	C	0.7375	-0.0076	0.0012	2.06E-10
rs12586262	14	34,022,723	T	C	0.4191	0.0084	0.0011	1.86E-15
rs3909616	14	36,896,963	C	G	0.5964	-0.0059	0.0011	2.91E-08
rs72676302	14	36,912,454	T	C	0.0452	0.0171	0.0025	1.32E-11
rs9783655	14	39,349,775	A	G	0.8202	0.0078	0.0014	1.28E-08
rs34074136	14	41,095,960	T	C	0.7765	0.0106	0.0013	4.25E-17
rs72672601	14	42,671,683	A	G	0.5715	-0.0095	0.0011	2.02E-19
rs10130224	14	49,397,286	A	C	0.5873	-0.0059	0.0011	2.40E-08
rs8008323	14	49,952,834	A	G	0.8965	0.0102	0.0017	2.70E-09
rs12893970	14	56,474,502	A	G	0.0983	-0.0127	0.0018	4.76E-13
rs241516	14	56,574,536	T	C	0.6408	0.0072	0.0011	3.72E-11
rs1117310	14	56,686,732	A	G	0.4616	0.0074	0.0010	1.61E-12
rs11622850	14	57,316,846	A	G	0.9255	0.0194	0.0020	2.08E-22
rs75672140	14	57,336,842	A	C	0.0414	0.0193	0.0026	2.30E-13
rs17092597	14	57,445,718	A	G	0.0506	0.0171	0.0024	9.93E-13
rs12891191	14	58,100,283	C	G	0.5175	0.0064	0.0010	7.88E-10
rs11158200	14	58,649,843	A	G	0.5367	0.0086	0.0011	2.53E-16
rs177759	14	59,400,518	T	G	0.6865	-0.0068	0.0011	2.08E-09
rs8016349	14	60,798,366	A	G	0.9141	-0.0082	0.0019	1.17E-05
rs7493429	14	60,806,759	A	C	0.6847	-0.0095	0.0011	3.50E-17
rs968257	14	64,680,285	T	C	0.6411	-0.0081	0.0011	1.09E-13
rs61987038	14	65,054,252	T	C	0.7092	-0.0100	0.0012	3.61E-18
rs1147455	14	66,448,348	A	G	0.7074	-0.0069	0.0012	2.36E-09
rs72715340	14	67,543,822	A	G	0.9585	0.0168	0.0026	1.36E-10
rs10130940	14	69,403,030	A	C	0.9359	0.0126	0.0021	4.05E-09
rs7140680	14	69,450,505	A	G	0.4228	-0.0099	0.0011	7.59E-21

rs7150195	14	69,740,483	T	G	0.3758	0.0136	0.0011	1.44E-36
rs36555	14	71,364,561	T	C	0.7047	-0.0067	0.0011	6.04E-09
rs987579	14	71,513,480	T	C	0.9026	0.0100	0.0018	1.31E-08
rs1210365	14	72,301,958	A	T	0.6142	0.0080	0.0011	1.35E-13
rs17104975	14	72,428,634	A	G	0.7451	-0.0090	0.0012	9.03E-14
rs56118783	14	72,602,595	A	G	0.0986	-0.0101	0.0018	9.11E-09
rs149662	14	72,639,496	T	C	0.1887	0.0101	0.0013	5.61E-14
rs2240980	14	73,409,683	C	G	0.6954	0.0073	0.0011	1.70E-10
rs7158218	14	73,934,880	A	C	0.7148	-0.0081	0.0012	2.10E-12
rs4903203	14	74,660,508	A	G	0.3269	-0.0095	0.0011	1.98E-17
rs730384	14	74,889,870	A	G	0.4364	0.0089	0.0011	4.22E-17
rs140107039	14	75,299,461	T	C	0.0311	-0.0208	0.0030	8.14E-12
rs61991641	14	77,502,798	T	C	0.3456	-0.0093	0.0011	3.96E-17
rs4903560	14	77,682,892	C	G	0.3711	-0.0052	0.0011	1.96E-06
rs10139828	14	78,293,304	T	C	0.8617	0.0099	0.0015	6.93E-11
rs1950265	14	78,594,765	A	C	0.4382	0.0075	0.0011	9.79E-13
rs17598373	14	79,815,516	T	C	0.5573	0.0073	0.0011	3.89E-12
rs1241919	14	83,995,695	A	G	0.5023	0.0052	0.0010	5.56E-07
rs1779549	14	84,640,016	A	C	0.4623	0.0082	0.0010	6.63E-15
rs2922653	14	85,008,223	A	T	0.2151	-0.0125	0.0013	1.29E-22
rs56215629	14	85,102,528	T	G	0.2301	0.0096	0.0012	1.33E-14
rs1129671	14	86,093,378	T	C	0.2715	0.0061	0.0012	1.86E-07
rs7151326	14	86,387,845	T	G	0.3944	-0.0087	0.0011	5.69E-16
rs6575022	14	89,279,099	A	G	0.4114	0.0068	0.0011	1.25E-10
rs4904523	14	89,723,630	A	G	0.5176	-0.0075	0.0010	1.05E-12
rs2008486	14	89,863,756	A	C	0.5046	-0.0063	0.0010	2.34E-09
rs1296091	14	91,515,754	T	C	0.2435	0.0088	0.0012	7.29E-13
rs7156027	14	92,579,232	C	G	0.4538	-0.0062	0.0011	3.86E-09
rs4900134	14	92,967,120	T	C	0.4680	0.0050	0.0011	1.64E-06
rs6575340	14	94,023,972	A	G	0.6400	-0.0090	0.0011	1.36E-16
rs10146814	14	94,518,209	C	G	0.4209	0.0055	0.0011	1.68E-07
rs36033348	14	98,438,791	T	C	0.9070	-0.0146	0.0018	6.28E-16
rs17096452	14	98,578,983	A	T	0.7830	0.0114	0.0013	3.18E-19
rs7157095	14	98,812,847	T	C	0.8183	-0.0073	0.0014	8.89E-08
rs8017517	14	99,055,601	A	G	0.1734	0.0063	0.0014	4.40E-06
rs2614463	14	99,746,274	A	T	0.5874	-0.0099	0.0011	1.32E-20
rs34891372	14	100,171,990	A	G	0.3779	-0.0066	0.0011	1.20E-09
rs1957514	14	100,186,443	A	G	0.4576	0.0013	0.0011	2.15E-01
rs7147581	14	101,028,840	T	C	0.5848	0.0060	0.0011	1.37E-08
rs35355082	14	101,355,078	A	G	0.7698	-0.0078	0.0012	4.60E-10
rs8011681	14	101,541,337	T	G	0.4624	-0.0077	0.0011	2.34E-13
rs12432879	14	101,688,977	A	G	0.2856	-0.0052	0.0012	6.30E-06
rs68192024	14	101,906,454	T	C	0.7422	-0.0085	0.0012	1.27E-12
rs8006699	14	103,194,998	A	G	0.8263	0.0096	0.0014	3.32E-12
rs9718	14	103,810,966	T	C	0.0311	-0.0165	0.0030	5.35E-08
rs7156076	14	104,892,153	A	G	0.7641	-0.0061	0.0012	8.64E-07
rs10147348	14	105,363,202	A	G	0.2189	-0.0054	0.0013	2.44E-05
rs7174566	15	26,815,651	T	C	0.4809	-0.0080	0.0010	2.89E-14

rs6606909	15	27,241,301	A	G	0.4599	0.0069	0.0010	6.20E-11
rs11633934	15	27,994,731	A	C	0.5433	0.0080	0.0011	2.10E-14
rs72712694	15	28,307,735	T	C	0.9449	-0.0114	0.0023	9.32E-07
rs35483472	15	34,653,914	T	C	0.3808	-0.0076	0.0011	2.76E-12
rs1961225	15	36,127,236	T	C	0.4208	0.0077	0.0011	3.37E-13
rs938003	15	36,284,652	A	G	0.2370	-0.0067	0.0012	4.67E-08
rs2381964	15	37,430,936	T	C	0.1853	-0.0065	0.0013	1.40E-06
rs16966271	15	38,423,730	T	C	0.2831	0.0100	0.0012	8.78E-18
rs56059718	15	38,836,777	A	C	0.1943	-0.0122	0.0013	3.81E-20
rs62004060	15	40,250,050	C	G	0.1607	-0.0074	0.0014	2.52E-07
rs16970633	15	40,642,877	T	G	0.1582	-0.0111	0.0014	7.66E-15
rs936580	15	40,924,578	A	G	0.1532	0.0111	0.0015	1.89E-14
rs748404	15	43,559,231	T	C	0.7784	-0.0082	0.0013	7.35E-11
rs28561815	15	47,292,863	T	G	0.2955	0.0068	0.0012	4.89E-09
rs2860049	15	47,515,395	T	G	0.3840	-0.0096	0.0011	3.72E-19
rs489692	15	47,639,354	T	C	0.6020	0.0044	0.0011	3.48E-05
rs34488670	15	47,684,936	T	C	0.7882	0.0140	0.0013	6.79E-28
rs8036279	15	47,986,129	A	T	0.5316	0.0088	0.0010	6.99E-17
rs72727293	15	49,736,189	A	G	0.0121	0.0255	0.0049	1.67E-07
rs17522169	15	51,400,745	T	G	0.1073	0.0119	0.0017	1.74E-12
rs2061425	15	51,748,146	T	C	0.7522	-0.0088	0.0012	3.65E-13
rs12148800	15	54,320,769	T	C	0.5174	0.0055	0.0010	1.80E-07
rs1919171	15	55,345,316	C	G	0.3831	-0.0070	0.0011	6.38E-11
rs4561398	15	55,932,617	T	C	0.4850	-0.0089	0.0010	2.53E-17
rs12442630	15	57,148,007	A	T	0.9686	0.0232	0.0030	1.01E-14
rs2431023	15	57,553,832	A	T	0.4166	0.0105	0.0011	3.52E-23
rs75746156	15	58,618,756	C	G	0.9258	0.0109	0.0020	4.78E-08
rs12916023	15	61,456,053	A	G	0.4908	-0.0085	0.0010	5.19E-16
rs193234479	15	65,004,884	C	G	0.9987	-0.0855	0.0153	2.17E-08
rs9635366	15	65,804,986	A	G	0.1830	0.0161	0.0014	1.98E-32
rs35414043	15	66,839,394	A	G	0.0764	-0.0154	0.0020	5.58E-15
rs72749398	15	67,965,602	T	C	0.1491	0.0098	0.0015	2.70E-11
rs62007773	15	69,941,370	T	C	0.5616	0.0077	0.0011	4.01E-13
rs378342	15	70,186,171	T	C	0.2675	-0.0081	0.0012	5.44E-12
rs975210	15	70,364,352	A	G	0.1710	-0.0096	0.0014	4.85E-12
rs149926387	15	70,767,116	A	G	0.9829	0.0211	0.0041	3.14E-07
rs10468056	15	73,377,122	T	G	0.3464	0.0114	0.0011	9.50E-25
rs112979086	15	73,822,918	T	G	0.0206	-0.0222	0.0037	1.68E-09
rs1382421	15	74,019,836	A	G	0.6558	-0.0065	0.0011	3.43E-09
rs12438304	15	74,099,773	T	C	0.1310	0.0136	0.0016	1.49E-18
rs12914489	15	74,187,937	A	G	0.1035	-0.0130	0.0017	4.19E-14
rs4886633	15	75,178,207	A	G	0.6931	0.0078	0.0011	5.31E-12
rs12912465	15	77,309,459	T	C	0.2689	-0.0091	0.0012	1.79E-14
rs11636649	15	78,031,458	A	C	0.4383	0.0104	0.0011	4.39E-23
rs12439144	15	78,536,924	A	G	0.3889	0.0070	0.0011	8.47E-11
rs57087680	15	80,835,016	C	G	0.3431	-0.0084	0.0011	3.26E-14
rs12905247	15	82,236,187	T	G	0.5135	0.0062	0.0010	3.40E-09
rs4778691	15	83,508,278	A	T	0.4830	-0.0072	0.0010	5.37E-12

rs2435953	15	87,023,567	A	G	0.6747	-0.0069	0.0011	7.76E-10
rs2289352	15	90,022,837	T	C	0.1760	0.0070	0.0014	4.28E-07
rs8032553	15	90,137,325	A	G	0.4857	-0.0070	0.0011	3.28E-11
rs7173089	15	92,438,457	T	C	0.3891	-0.0090	0.0011	4.39E-17
rs34555786	15	92,611,169	A	G	0.0975	-0.0096	0.0018	5.17E-08
rs8035166	15	92,678,378	T	G	0.5174	0.0055	0.0010	1.60E-07
rs72761930	15	93,432,740	T	C	0.9315	0.0096	0.0021	4.03E-06
rs11856160	15	93,452,846	A	G	0.8429	0.0126	0.0014	2.04E-18
rs7172133	15	96,025,311	A	C	0.6869	0.0074	0.0011	4.92E-11
rs2584240	15	96,267,139	A	T	0.8912	-0.0113	0.0017	1.51E-11
rs10520808	15	96,647,766	A	C	0.5437	0.0066	0.0011	2.69E-10
rs72751302	15	96,910,355	A	G	0.2027	0.0110	0.0013	3.99E-17
rs28473320	15	97,462,529	T	C	0.6969	-0.0071	0.0011	3.52E-10
rs28522113	15	97,623,024	T	C	0.5533	0.0059	0.0011	2.20E-08
rs61747226	15	98,512,431	T	C	0.0434	-0.0189	0.0026	3.41E-13
rs7402939	15	99,183,876	T	C	0.3789	0.0068	0.0011	3.92E-10
rs2858011	16	247,938	T	C	0.6316	-0.0048	0.0011	9.26E-06
rs7200589	16	349,331	A	G	0.2617	0.0067	0.0012	1.89E-08
rs78410329	16	730,830	T	C	0.2242	0.0178	0.0013	1.63E-45
rs3751667	16	1,004,554	T	C	0.2291	-0.0089	0.0012	1.10E-12
rs35984727	16	1,251,114	C	G	0.7202	0.0097	0.0012	1.29E-16
rs3751664	16	1,254,369	T	C	0.1066	0.0137	0.0017	2.07E-15
rs1811835	16	1,379,555	T	C	0.1157	0.0120	0.0016	2.54E-13
rs58422887	16	1,915,886	A	T	0.1316	0.0102	0.0016	6.10E-11
rs138036227	16	2,148,271	A	G	0.1038	0.0087	0.0017	5.46E-07
rs3751837	16	3,583,173	T	C	0.2217	0.0104	0.0013	1.69E-16
rs12596890	16	3,588,068	A	G	0.7984	0.0110	0.0013	2.42E-17
rs77997837	16	4,944,256	T	C	0.2276	0.0088	0.0012	2.36E-12
rs6500680	16	5,370,784	A	G	0.1145	-0.0116	0.0016	1.71E-12
rs527302	16	5,420,064	T	C	0.4201	-0.0060	0.0011	1.57E-08
rs2078357	16	5,672,875	C	G	0.8852	-0.0092	0.0016	2.70E-08
rs9930253	16	5,815,334	A	T	0.2786	-0.0099	0.0012	3.12E-17
rs2343522	16	6,163,660	T	G	0.1507	-0.0081	0.0015	3.60E-08
rs8044082	16	6,603,021	T	C	0.3995	0.0072	0.0011	1.83E-11
rs10400992	16	6,769,566	C	G	0.6904	0.0061	0.0011	8.84E-08
rs1492376	16	6,934,454	C	G	0.7188	-0.0053	0.0012	6.20E-06
rs12709190	16	7,261,347	T	G	0.6790	0.0060	0.0011	1.08E-07
rs12445627	16	7,614,876	A	G	0.4672	-0.0066	0.0010	3.39E-10
rs11077206	16	7,667,332	C	G	0.6124	0.0076	0.0011	2.00E-12
rs881562	16	7,760,884	T	G	0.5086	0.0061	0.0010	8.09E-09
rs11647811	16	7,945,869	T	C	0.1453	0.0096	0.0015	1.09E-10
rs2304467	16	8,988,777	C	G	0.6096	-0.0055	0.0011	2.70E-07
rs2965884	16	9,323,008	A	C	0.5735	-0.0082	0.0011	8.69E-15
rs62033633	16	9,577,506	A	G	0.8812	0.0112	0.0016	4.13E-12
rs35502861	16	10,221,878	T	C	0.9003	0.0130	0.0017	9.11E-14
rs1097730	16	10,241,739	A	G	0.5053	-0.0082	0.0010	6.22E-15
rs13332638	16	11,905,849	A	G	0.0862	-0.0130	0.0019	3.12E-12
rs9922788	16	12,243,932	A	G	0.4337	0.0103	0.0011	2.12E-22

rs6498296	16	12,510,149	C	G	0.4113	-0.0088	0.0011	1.69E-16
rs2856784	16	12,645,576	A	G	0.8359	-0.0080	0.0014	1.63E-08
rs1501312	16	13,137,096	T	G	0.6904	0.0067	0.0011	3.02E-09
rs1438706	16	13,273,066	T	C	0.5609	0.0066	0.0011	3.99E-10
rs8048012	16	13,918,873	A	G	0.1729	0.0082	0.0014	3.15E-09
rs17260584	16	14,653,194	T	C	0.2313	0.0101	0.0012	3.23E-16
rs7405130	16	15,147,725	T	C	0.1490	-0.0140	0.0015	3.09E-21
rs113571972	16	17,993,818	T	G	0.6782	-0.0069	0.0011	5.97E-10
rs6497339	16	19,277,493	A	T	0.4457	0.0100	0.0011	1.90E-21
rs79761300	16	20,070,404	T	C	0.0572	-0.0113	0.0023	5.87E-07
rs11074461	16	20,597,553	A	G	0.2084	-0.0057	0.0013	1.20E-05
rs146762132	16	22,241,789	T	C	0.0722	0.0075	0.0020	2.24E-04
rs1989806	16	22,866,683	T	C	0.8301	0.0100	0.0014	8.40E-13
rs208626	16	22,927,887	A	G	0.5504	0.0060	0.0011	1.48E-08
rs1858867	16	23,885,171	A	T	0.7331	-0.0065	0.0012	3.71E-08
rs11860742	16	24,369,082	A	G	0.0476	-0.0113	0.0025	5.76E-06
rs138603410	16	24,498,899	A	T	0.0113	-0.0252	0.0050	4.46E-07
rs2303083	16	24,835,168	A	G	0.1889	0.0133	0.0013	2.08E-23
rs10521132	16	25,720,836	A	G	0.2500	-0.0084	0.0012	4.79E-12
rs12922671	16	25,788,819	T	G	0.1523	0.0091	0.0015	4.49E-10
rs7192193	16	26,171,345	A	G	0.4309	0.0074	0.0011	2.21E-12
rs11643516	16	26,456,439	T	C	0.4128	-0.0081	0.0011	2.22E-14
rs188192	16	28,131,510	A	C	0.2938	0.0084	0.0011	3.08E-13
rs4788080	16	28,558,081	T	C	0.3595	-0.0134	0.0011	1.20E-34
rs4889606	16	31,011,183	A	G	0.6110	-0.0093	0.0011	5.83E-18
rs1420710	16	48,826,581	T	C	0.7992	-0.0096	0.0013	1.93E-13
rs12923113	16	49,614,518	A	G	0.7368	0.0074	0.0012	5.03E-10
rs4785187	16	49,766,772	A	G	0.2233	-0.0116	0.0013	2.42E-20
rs9937426	16	50,926,119	T	C	0.2528	0.0057	0.0012	1.84E-06
rs8058137	16	51,190,580	A	G	0.7827	0.0147	0.0013	8.61E-31
rs7195329	16	51,590,733	A	G	0.2635	0.0086	0.0012	5.59E-13
rs16950935	16	52,243,489	T	C	0.2376	0.0072	0.0012	3.81E-09
rs12708881	16	52,910,760	A	G	0.5127	0.0076	0.0010	3.20E-13
rs12922563	16	53,001,788	T	C	0.2380	-0.0076	0.0012	5.50E-10
rs12149668	16	53,156,995	A	G	0.3588	0.0045	0.0011	3.96E-05
rs72801843	16	53,508,802	A	T	0.3036	0.0152	0.0011	1.78E-40
rs79994966	16	53,823,727	T	C	0.6087	-0.0079	0.0011	1.56E-13
rs2542673	16	54,206,715	A	C	0.3222	0.0077	0.0011	5.55E-12
rs1912413	16	54,235,440	A	G	0.1758	-0.0087	0.0014	2.89E-10
rs9928968	16	54,453,199	T	C	0.2231	-0.0066	0.0013	1.51E-07
rs1151282	16	54,627,052	A	C	0.2820	0.0070	0.0012	1.59E-09
rs1833249	16	55,854,971	T	G	0.1878	-0.0076	0.0014	3.29E-08
rs117501040	16	56,238,809	T	C	0.0226	0.0175	0.0036	1.58E-06
rs10083732	16	58,855,889	C	G	0.2122	0.0087	0.0013	9.80E-12
rs9674209	16	60,128,063	T	C	0.5845	-0.0070	0.0011	5.83E-11
rs12709063	16	60,686,987	A	G	0.4925	-0.0071	0.0010	1.43E-11
rs12924693	16	61,031,689	A	G	0.8931	-0.0131	0.0017	8.28E-15
rs17248751	16	61,579,618	A	G	0.7846	-0.0138	0.0013	3.42E-27

rs58816741	16	61,775,810	C	G	0.5596	0.0077	0.0011	2.49E-13
rs74710412	16	62,086,038	A	G	0.1592	0.0138	0.0014	8.74E-22
rs16965057	16	62,713,963	T	C	0.7585	-0.0083	0.0012	9.22E-12
rs1364163	16	63,527,818	T	C	0.3416	-0.0072	0.0011	6.43E-11
rs7188339	16	64,949,993	T	C	0.3090	0.0056	0.0011	6.25E-07
rs4785819	16	65,307,151	T	C	0.8991	-0.0144	0.0017	1.33E-16
rs1327486	16	65,692,481	A	G	0.3142	-0.0058	0.0011	3.20E-07
rs10153150	16	65,803,954	T	G	0.1136	0.0105	0.0016	2.06E-10
rs56054285	16	66,580,607	A	G	0.9967	0.0532	0.0097	3.51E-08
rs6499096	16	66,759,454	A	C	0.4143	0.0076	0.0011	1.07E-12
rs2008173	16	67,856,240	A	G	0.8300	0.0124	0.0014	6.82E-19
rs74615093	16	69,122,043	A	G	0.0743	0.0114	0.0020	1.13E-08
rs62052820	16	69,575,238	A	G	0.2170	-0.0041	0.0013	1.32E-03
rs11794687	16	70,294,093	C	G	0.9774	0.0230	0.0036	1.77E-10
rs172649	16	71,596,005	T	G	0.6511	-0.0060	0.0011	4.35E-08
rs12373065	16	71,870,032	A	T	0.1296	0.0099	0.0016	2.18E-10
rs18466094	16	72,032,541	A	G	0.0060	-0.0111	0.0069	1.10E-01
rs17604349	16	72,210,865	A	G	0.1886	0.0118	0.0013	9.40E-19
rs76513770	16	72,505,534	T	C	0.8848	-0.0138	0.0016	3.21E-17
rs9922098	16	73,440,877	A	G	0.5234	0.0080	0.0011	2.54E-14
rs729432	16	73,791,860	A	G	0.5776	-0.0064	0.0011	1.86E-09
rs20140520	16	75,652,021	A	G	0.9479	-0.0177	0.0027	7.79E-11
rs8060784	16	76,261,952	T	C	0.2713	0.0075	0.0012	1.53E-10
rs9935637	16	76,469,730	C	G	0.4488	0.0082	0.0011	8.94E-15
rs7500549	16	78,243,384	T	C	0.4729	-0.0077	0.0011	3.09E-13
rs16948711	16	78,913,115	A	C	0.5404	0.0053	0.0011	5.49E-07
rs9934131	16	80,491,318	A	G	0.1848	0.0065	0.0013	1.29E-06
rs28597883	16	82,647,566	C	G	0.4551	0.0079	0.0011	6.15E-14
rs55642658	16	82,836,162	T	C	0.9004	0.0125	0.0017	8.66E-13
rs8044562	16	82,876,486	A	G	0.2846	-0.0119	0.0012	8.34E-25
rs7187255	16	83,274,691	T	G	0.1836	-0.0054	0.0014	7.14E-05
rs4782779	16	83,402,943	A	G	0.3635	-0.0080	0.0011	2.00E-13
rs34485537	16	83,608,924	T	C	0.3949	0.0091	0.0011	2.26E-17
rs12921209	16	84,100,602	T	G	0.7635	0.0078	0.0012	2.05E-10
rs889600	16	87,390,630	A	C	0.4918	0.0067	0.0010	1.80E-10
rs75687828	16	89,618,876	A	G	0.0852	0.0191	0.0019	4.04E-24
rs8047204	16	89,766,063	A	G	0.6296	0.0081	0.0011	9.05E-14
rs2586238	17	902,322	A	G	0.4603	-0.0051	0.0011	1.35E-06
rs6502670	17	1,328,381	T	G	0.6201	-0.0075	0.0011	7.56E-12
rs4790841	17	1,835,482	T	C	0.1540	0.0100	0.0015	6.07E-12
rs2447091	17	2,296,014	T	C	0.6112	0.0091	0.0011	2.39E-17
rs2054039	17	4,014,538	A	C	0.3887	0.0067	0.0011	4.89E-10
rs9914251	17	5,394,882	A	G	0.7579	0.0077	0.0012	2.97E-10
rs12453239	17	6,359,353	A	T	0.4992	-0.0061	0.0010	7.99E-09
rs1807430	17	6,467,252	C	G	0.0801	-0.0085	0.0019	1.16E-05
rs7502384	17	7,203,141	C	G	0.6656	-0.0063	0.0011	1.31E-08
rs55749333	17	7,371,932	T	C	0.6416	-0.0066	0.0011	1.12E-09
rs3948593	17	7,615,364	T	C	0.1628	-0.0097	0.0014	9.65E-12

rs8067165	17	8,031,936	C	G	0.3993	-0.0063	0.0011	4.41E-09
rs1016135	17	9,927,583	A	G	0.7020	0.0047	0.0011	4.20E-05
rs11078827	17	9,985,841	T	C	0.4940	-0.0073	0.0010	3.85E-12
rs79602383	17	11,925,336	T	C	0.7842	-0.0077	0.0013	1.52E-09
rs72838750	17	16,242,993	T	G	0.4944	-0.0088	0.0011	8.35E-17
rs7224739	17	17,632,478	A	G	0.4281	0.0074	0.0011	3.05E-12
rs2428373	17	18,911,386	T	C	0.1466	-0.0083	0.0015	2.98E-08
rs79400257	17	19,266,621	T	C	0.0265	-0.0193	0.0033	4.35E-09
rs1638526	17	19,848,450	T	C	0.7414	0.0089	0.0012	1.08E-13
rs8614	17	27,588,806	A	C	0.1872	-0.0127	0.0013	2.70E-21
rs3103307	17	28,660,487	A	T	0.5841	-0.0084	0.0011	3.03E-15
rs9891803	17	31,609,815	T	C	0.4965	-0.0095	0.0010	1.57E-19
rs2277623	17	32,484,467	T	G	0.3792	0.0062	0.0011	1.09E-08
rs4795938	17	32,908,064	T	C	0.1483	0.0083	0.0015	1.70E-08
rs8072494	17	33,256,917	A	G	0.7895	-0.0116	0.0013	1.65E-19
rs225285	17	33,931,084	C	G	0.7290	-0.0088	0.0012	9.97E-14
rs12937411	17	34,950,239	T	C	0.4094	0.0106	0.0011	1.66E-23
rs853199	17	35,850,225	T	C	0.3550	0.0086	0.0011	3.84E-15
rs72821558	17	37,210,273	T	G	0.8694	0.0071	0.0016	4.73E-06
rs12453682	17	37,770,005	T	C	0.6867	0.0111	0.0011	6.47E-23
rs4793090	17	40,686,342	A	G	0.6671	0.0071	0.0011	1.37E-10
rs4793084	17	42,317,371	T	G	0.6939	-0.0097	0.0011	1.10E-17
rs8078137	17	42,523,489	A	T	0.4442	-0.0067	0.0011	2.68E-10
rs4793166	17	43,035,377	A	G	0.1713	-0.0096	0.0014	4.95E-12
rs730953	17	43,102,286	A	C	0.3815	-0.0037	0.0011	6.93E-04
rs60814418	17	43,850,645	T	C	0.2242	-0.0226	0.0013	5.23E-72
rs370558872	17	44,086,726	T	C	0.7764	0.0233	0.0015	4.03E-58
rs180677902	17	44,176,496	T	G	0.9988	0.0081	0.0175	6.45E-01
rs4267364	17	45,781,264	A	G	0.3855	-0.0055	0.0011	2.69E-07
rs8067005	17	46,119,775	T	C	0.2116	-0.0074	0.0013	9.58E-09
rs9899056	17	48,186,942	A	G	0.3994	0.0070	0.0011	6.71E-11
rs3744661	17	49,255,974	C	G	0.3191	0.0059	0.0011	1.66E-07
rs12453010	17	50,316,131	T	C	0.3943	-0.0107	0.0011	1.10E-23
rs2631535	17	50,396,092	A	G	0.3289	0.0123	0.0011	2.44E-28
rs1887608	17	50,438,095	A	C	0.6996	0.0034	0.0011	2.55E-03
rs4597364	17	51,875,791	T	C	0.6643	-0.0069	0.0011	7.25E-10
rs6504875	17	52,098,609	T	G	0.5581	0.0090	0.0011	1.56E-17
rs72833096	17	55,655,932	C	G	0.1481	-0.0107	0.0015	4.70E-13
rs12602072	17	56,144,013	A	G	0.8141	0.0094	0.0013	3.75E-12
rs35258348	17	56,421,097	T	G	0.7111	-0.0073	0.0012	2.97E-10
rs60053512	17	60,095,315	A	G	0.1559	0.0123	0.0014	1.28E-17
rs11079486	17	60,838,653	A	G	0.4241	-0.0056	0.0011	1.02E-07
rs117558214	17	61,404,421	A	G	0.1947	0.0082	0.0013	4.34E-10
rs6504417	17	64,379,240	T	C	0.3446	-0.0063	0.0011	9.01E-09
rs1961378	17	65,480,090	A	C	0.4543	-0.0071	0.0011	1.09E-11
rs707247	17	67,426,612	A	T	0.4767	0.0063	0.0010	1.60E-09
rs4647881	17	74,538,466	A	C	0.7853	-0.0074	0.0013	9.98E-09
rs8073654	17	74,746,425	T	C	0.5670	0.0070	0.0011	3.63E-11

rs62641985	17	75,854,593	T	C	0.7408	0.0065	0.0012	5.69E-08
rs870681	17	77,773,876	A	C	0.7450	-0.0078	0.0012	8.89E-11
rs1131610	17	78,442,655	T	C	0.0533	0.0112	0.0023	1.81E-06
rs1128687	17	78,973,474	T	C	0.5708	-0.0081	0.0011	1.75E-14
rs11657342	17	79,355,294	A	G	0.3671	0.0146	0.0023	4.79E-10
rs62079997	17	80,076,888	T	C	0.5644	-0.0068	0.0011	1.50E-10
rs56075787	17	80,481,434	T	C	0.2271	-0.0076	0.0013	1.50E-09
rs476476	18	2,738,162	T	C	0.5576	-0.0064	0.0011	1.28E-09
rs3862174	18	3,817,521	A	G	0.7494	0.0061	0.0012	4.54E-07
rs9963991	18	4,733,644	T	C	0.6684	-0.0061	0.0011	4.62E-08
rs34864428	18	4,804,596	A	T	0.7896	0.0069	0.0013	6.47E-08
rs28785855	18	5,272,516	T	G	0.5126	0.0054	0.0010	2.33E-07
rs34948998	18	5,879,800	A	T	0.4804	0.0078	0.0010	1.20E-13
rs28656885	18	5,891,637	A	C	0.3875	-0.0056	0.0011	1.81E-07
rs11081404	18	8,693,001	T	G	0.4256	0.0059	0.0011	2.56E-08
rs4798708	18	8,885,393	T	G	0.5324	0.0056	0.0010	7.30E-08
rs4798783	18	9,174,885	A	G	0.7072	-0.0115	0.0011	1.26E-23
rs7240432	18	9,590,896	T	G	0.3583	0.0104	0.0011	1.74E-21
rs62080301	18	9,633,139	A	G	0.6418	0.0061	0.0011	1.92E-08
rs692833	18	13,135,433	T	G	0.3821	0.0064	0.0011	2.50E-09
rs7237509	18	13,944,255	T	C	0.5509	0.0053	0.0011	5.50E-07
rs303752	18	21,074,255	A	G	0.4049	-0.0060	0.0011	1.47E-08
rs4800573	18	22,059,670	A	G	0.1600	-0.0083	0.0014	7.46E-09
rs72887889	18	22,402,325	A	T	0.8083	-0.0094	0.0013	1.86E-12
rs9956721	18	22,621,869	A	T	0.5850	-0.0132	0.0011	1.82E-35
rs4800203	18	22,646,549	A	C	0.1320	-0.0161	0.0015	2.05E-25
rs1941912	18	23,330,422	T	C	0.4363	0.0050	0.0011	2.58E-06
rs34116308	18	25,486,533	A	G	0.0282	-0.0113	0.0032	3.87E-04
rs1220027	18	25,656,665	T	C	0.2931	0.0097	0.0011	2.50E-17
rs7243759	18	25,750,331	A	G	0.2297	-0.0026	0.0012	3.51E-02
rs356830	18	26,323,802	A	G	0.2523	-0.0072	0.0012	2.14E-09
rs145278958	18	26,535,230	T	C	0.0314	-0.0144	0.0031	2.74E-06
rs9952808	18	26,648,973	C	G	0.6292	-0.0059	0.0011	5.34E-08
rs4337371	18	27,615,045	A	G	0.1834	0.0084	0.0014	4.48E-10
rs6508686	18	28,003,696	A	G	0.5902	0.0052	0.0011	9.74E-07
rs2591114	18	28,372,663	A	G	0.5455	-0.0081	0.0011	1.82E-14
rs273027	18	30,685,045	A	G	0.9254	0.0135	0.0020	1.09E-11
rs12957987	18	31,212,209	A	G	0.4783	0.0087	0.0010	1.48E-16
rs1493921	18	31,451,052	T	C	0.3836	0.0092	0.0011	1.36E-17
rs12604573	18	31,786,639	A	G	0.5594	-0.0093	0.0011	7.34E-19
rs12709690	18	35,165,852	T	C	0.3548	-0.0186	0.0011	9.28E-65
rs1944386	18	36,037,621	T	C	0.6447	-0.0082	0.0011	5.51E-14
rs10432182	18	36,557,457	A	G	0.2238	-0.0120	0.0013	8.80E-22
rs12962980	18	36,915,043	C	G	0.1822	0.0168	0.0014	2.40E-35
rs7233920	18	37,416,318	A	G	0.2285	-0.0115	0.0012	2.20E-20
rs4553692	18	38,040,163	A	G	0.3714	0.0112	0.0011	4.25E-25
rs80020939	18	38,905,390	A	T	0.0497	-0.0146	0.0024	1.41E-09
rs56408129	18	39,016,483	A	T	0.7836	-0.0083	0.0015	1.93E-08

rs72900102	18	39,073,303	A	T	0.8400	0.0088	0.0014	8.23E-10
rs72892182	18	39,283,319	A	G	0.0570	0.0202	0.0023	4.29E-19
rs9304270	18	39,937,509	T	C	0.1322	0.0089	0.0015	7.14E-09
rs58137875	18	40,230,965	A	G	0.2691	-0.0105	0.0012	7.10E-19
rs62089898	18	40,317,168	A	G	0.0351	0.0182	0.0029	2.30E-10
rs12326432	18	41,486,749	T	C	0.1719	-0.0097	0.0014	3.05E-12
rs80090296	18	42,110,459	T	C	0.1693	-0.0084	0.0014	1.98E-09
rs11877152	18	42,754,468	T	C	0.8905	-0.0143	0.0017	1.89E-17
rs78269855	18	44,022,942	A	G	0.9275	0.0126	0.0020	4.86E-10
rs34939493	18	44,795,621	T	G	0.4296	0.0097	0.0011	6.88E-20
rs62092937	18	48,748,903	T	C	0.4459	-0.0080	0.0011	3.30E-14
rs322547	18	49,137,585	A	G	0.2730	-0.0079	0.0012	2.01E-11
rs34418947	18	49,993,455	A	G	0.4119	-0.0066	0.0011	5.46E-10
rs78324365	18	50,458,734	A	G	0.0804	0.0173	0.0019	2.49E-19
rs11664320	18	50,872,623	T	C	0.5649	0.0176	0.0011	2.21E-62
rs9807112	18	52,541,788	T	C	0.6859	-0.0085	0.0011	5.37E-14
rs4128242	18	52,747,689	T	C	0.5966	-0.0083	0.0011	7.10E-15
rs660010	18	53,310,969	C	G	0.1408	0.0186	0.0015	3.24E-35
rs11368242	18	53,344,221	A	G	0.0067	-0.0256	0.0065	8.89E-05
rs77882218	18	53,415,063	T	C	0.9716	-0.0256	0.0032	4.06E-16
rs2588478	18	53,625,296	T	G	0.5836	0.0038	0.0011	3.05E-04
rs1237629	18	53,945,160	A	G	0.2742	-0.0049	0.0012	2.64E-05
rs4940668	18	56,032,231	A	G	0.7003	-0.0069	0.0011	1.84E-09
rs75679154	18	57,054,935	C	G	0.9640	0.0142	0.0028	4.82E-07
rs36011282	18	58,973,546	A	G	0.4351	-0.0083	0.0011	3.39E-15
rs1053951	18	60,232,674	A	G	0.5723	-0.0066	0.0011	4.34E-10
rs12104029	18	62,509,211	C	G	0.5305	-0.0082	0.0010	4.08E-15
rs11663822	18	62,723,912	A	G	0.2958	-0.0057	0.0011	8.26E-07
rs72944005	18	63,497,191	T	C	0.2537	0.0085	0.0012	1.61E-12
rs62087667	18	63,798,369	T	G	0.2897	-0.0064	0.0012	2.49E-08
rs12956778	18	64,567,975	T	G	0.6522	-0.0064	0.0011	7.28E-09
rs8095834	18	65,025,641	C	G	0.0359	-0.0137	0.0028	1.23E-06
rs623200	18	66,246,646	T	C	0.3849	0.0070	0.0011	5.79E-11
rs17842596	18	67,565,579	A	G	0.6080	0.0053	0.0011	8.51E-07
rs11874177	18	70,614,375	T	G	0.2825	-0.0067	0.0012	8.50E-09
rs8092046	18	71,603,473	T	C	0.7634	-0.0066	0.0012	7.62E-08
rs79359979	18	72,933,869	T	C	0.0972	0.0082	0.0018	4.76E-06
rs17190980	18	73,006,280	T	C	0.3336	0.0084	0.0011	3.24E-14
rs2554835	18	74,141,190	A	G	0.3889	0.0054	0.0011	4.76E-07
rs684192	18	74,622,529	A	G	0.6353	-0.0068	0.0011	3.85E-10
rs4890901	18	74,846,355	A	G	0.6572	0.0072	0.0011	9.25E-11
rs11081529	18	75,902,735	T	C	0.7213	0.0123	0.0012	7.10E-26
rs7236339	18	77,579,773	A	G	0.2174	-0.0153	0.0013	1.57E-33
rs62103175	18	77,622,467	T	C	0.1443	0.0122	0.0015	3.07E-16
rs56101188	19	586,745	T	C	0.9054	0.0103	0.0019	3.66E-08
rs10401329	19	1,871,699	A	G	0.1205	0.0109	0.0016	1.22E-11
rs117849041	19	2,312,903	T	C	0.1052	0.0116	0.0017	1.19E-11
rs7255693	19	2,673,094	A	C	0.3108	0.0063	0.0011	3.57E-08

rs72989297	19	3,297,164	T	G	0.1344	-0.0101	0.0015	6.87E-11
rs11085020	19	3,446,107	T	C	0.6756	-0.0057	0.0011	4.41E-07
rs757436	19	3,826,749	A	T	0.4039	0.0065	0.0011	1.49E-09
rs117520996	19	4,410,003	T	G	0.0490	0.0220	0.0025	1.47E-18
rs10419571	19	4,499,976	T	C	0.6825	-0.0085	0.0011	4.68E-14
rs10853981	19	4,965,064	A	G	0.3286	-0.0087	0.0011	6.64E-15
rs10415488	19	5,246,717	T	C	0.6119	-0.0060	0.0011	2.40E-08
rs892058	19	6,275,584	A	G	0.2059	0.0073	0.0013	1.98E-08
rs8104651	19	9,950,127	T	C	0.5576	-0.0076	0.0011	4.65E-13
rs12972944	19	12,713,808	A	G	0.6840	0.0075	0.0011	3.50E-11
rs899223	19	13,157,151	C	G	0.0811	0.0133	0.0019	5.07E-12
rs117861106	19	13,213,801	T	C	0.0508	-0.0187	0.0024	7.60E-15
rs62109939	19	13,292,263	T	C	0.7921	-0.0092	0.0013	3.63E-12
rs12609965	19	13,917,866	A	C	0.2450	0.0071	0.0012	8.05E-09
rs10854143	19	15,512,720	T	C	0.4853	0.0066	0.0010	3.42E-10
rs12974657	19	18,237,571	T	C	0.6826	0.0092	0.0011	3.71E-16
rs12975407	19	18,443,650	T	C	0.5386	0.0055	0.0011	2.12E-07
rs8105994	19	18,593,553	T	C	0.6599	0.0058	0.0011	1.34E-07
rs35359254	19	18,901,618	C	G	0.9038	0.0114	0.0018	1.61E-10
rs12981405	19	19,651,577	T	C	0.1656	-0.0111	0.0014	4.09E-15
rs79391487	19	19,989,679	T	C	0.0560	-0.0146	0.0023	1.93E-10
rs140182490	19	29,250,142	A	G	0.5819	-0.0055	0.0011	1.84E-07
rs7254263	19	30,741,257	T	C	0.2899	-0.0099	0.0012	7.90E-18
rs117623407	19	32,204,489	A	G	0.8515	-0.0111	0.0015	5.08E-14
rs2240662	19	32,537,173	T	G	0.3420	-0.0066	0.0011	2.43E-09
rs4805761	19	32,951,800	A	G	0.1567	-0.0139	0.0014	5.97E-22
rs8112297	19	33,199,783	A	G	0.2981	0.0057	0.0011	7.27E-07
rs7249687	19	33,933,547	A	G	0.3605	0.0060	0.0011	4.69E-08
rs35209304	19	36,175,055	T	C	0.1915	0.0100	0.0013	6.16E-14
rs111227517	19	38,705,694	T	C	0.8091	-0.0085	0.0013	1.83E-10
rs400078	19	39,567,447	T	C	0.4070	-0.0057	0.0011	1.08E-07
rs12983038	19	39,741,124	A	G	0.1914	-0.0081	0.0013	1.35E-09
rs405509	19	45,408,836	T	G	0.4811	0.0065	0.0010	4.25E-10
rs10402747	19	45,815,248	T	C	0.5144	0.0069	0.0011	6.54E-11
rs3786824	19	46,121,982	A	G	0.3233	0.0076	0.0011	1.92E-11
rs73566664	19	46,384,215	T	G	0.1494	-0.0086	0.0015	6.30E-09
rs62135070	19	47,615,835	T	C	0.0469	0.0162	0.0030	6.76E-08
rs76873944	19	48,096,678	A	T	0.8816	-0.0095	0.0016	6.20E-09
rs12976992	19	50,818,776	A	G	0.5222	-0.0063	0.0011	2.15E-09
rs217541	19	54,443,866	T	C	0.1487	-0.0093	0.0015	3.66E-10
rs17516383	19	54,926,182	A	G	0.3112	0.0069	0.0012	3.06E-09
rs192436652	19	54,960,747	T	C	0.0262	-0.0276	0.0033	9.90E-17
rs11667653	19	57,101,876	T	C	0.1897	-0.0086	0.0013	1.11E-10
rs62114178	19	58,778,451	A	G	0.3724	0.0069	0.0011	2.49E-10
rs2710873	1	978,193	A	G	0.1607	-0.0113	0.0015	1.33E-14
rs12034740	1	1,728,969	A	C	0.4987	0.0071	0.0010	1.15E-11
rs72644658	1	2,460,608	A	G	0.9056	0.0077	0.0018	2.05E-05
rs55972083	1	2,704,918	T	G	0.2153	-0.0087	0.0013	1.38E-11

rs1572656	1	2,989,543	T	G	0.7998	0.0085	0.0013	6.78E-11
rs2455107	1	3,180,158	T	G	0.8152	0.0047	0.0014	4.43E-04
rs4654441	1	4,566,515	A	G	0.5755	0.0072	0.0011	7.91E-12
rs148623266	1	4,872,867	T	C	0.0159	0.0170	0.0043	8.28E-05
rs12735232	1	6,867,842	T	C	0.8435	-0.0101	0.0014	2.28E-12
rs1011124	1	7,533,164	A	G	0.4022	0.0084	0.0011	4.09E-15
rs1058790	1	8,413,839	A	G	0.8205	-0.0140	0.0014	1.37E-24
rs58130172	1	11,540,649	T	C	0.2780	0.0098	0.0012	1.39E-16
rs61773907	1	11,710,991	A	G	0.0428	0.0073	0.0027	6.87E-03
rs28455075	1	11,939,720	A	G	0.3106	0.0036	0.0011	1.46E-03
rs7519289	1	14,951,843	C	G	0.6495	-0.0045	0.0011	3.77E-05
rs2253371	1	15,724,003	A	G	0.7424	0.0087	0.0012	4.31E-13
rs221063	1	16,537,289	T	G	0.2620	-0.0062	0.0012	2.04E-07
rs78116078	1	18,434,125	C	G	0.7184	0.0093	0.0012	1.28E-15
rs10907295	1	18,536,355	A	G	0.6817	-0.0052	0.0011	3.47E-06
rs10917518	1	20,017,738	T	C	0.3403	0.0039	0.0011	4.97E-04
rs10916679	1	20,286,563	A	C	0.2682	0.0071	0.0012	1.42E-09
rs2097532	1	20,551,745	T	C	0.6437	0.0083	0.0011	3.74E-14
rs78094866	1	20,650,384	T	C	0.1274	-0.0098	0.0016	5.19E-10
rs4615814	1	20,875,459	T	C	0.9070	-0.0113	0.0018	3.25E-10
rs115073125	1	21,189,666	T	C	0.0390	-0.0106	0.0032	8.01E-04
rs84853	1	21,641,522	T	C	0.4556	0.0067	0.0011	1.91E-10
rs147394161	1	21,924,946	T	C	0.9862	0.0167	0.0045	2.09E-04
rs12142101	1	21,966,850	A	G	0.3971	-0.0076	0.0011	1.26E-12
rs829387	1	22,023,151	T	G	0.0892	0.0066	0.0018	3.78E-04
rs61767328	1	22,977,627	A	G	0.3683	-0.0062	0.0011	9.48E-09
rs16827646	1	23,164,756	T	G	0.8173	-0.0049	0.0014	3.03E-04
rs17184588	1	24,365,512	T	C	0.5130	-0.0069	0.0010	3.86E-11
rs9700051	1	24,959,916	A	C	0.4661	-0.0057	0.0010	6.16E-08
rs2997447	1	26,387,423	A	G	0.2071	0.0050	0.0013	1.20E-04
rs190737	1	26,899,444	A	C	0.5287	-0.0061	0.0010	4.97E-09
rs2318774	1	29,167,823	A	T	0.3288	-0.0111	0.0011	3.02E-23
rs114401621	1	30,196,022	A	G	0.0189	-0.0165	0.0039	2.55E-05
rs174838	1	30,407,575	A	G	0.2281	0.0050	0.0012	5.77E-05
rs2050256	1	32,204,683	A	G	0.8284	0.0156	0.0014	4.42E-29
rs61229710	1	34,029,414	A	G	0.1581	-0.0096	0.0014	1.90E-11
rs3795414	1	34,285,995	A	G	0.5153	0.0079	0.0010	5.69E-14
rs35521053	1	34,420,852	A	C	0.2558	0.0046	0.0012	1.14E-04
rs4622033	1	35,005,272	T	C	0.5963	-0.0057	0.0011	8.59E-08
rs72657943	1	35,330,496	C	G	0.8711	-0.0057	0.0016	2.66E-04
rs215762	1	37,581,623	A	G	0.3281	0.0038	0.0011	5.77E-04
rs72657787	1	38,010,243	A	G	0.0783	-0.0149	0.0019	2.12E-14
rs476012	1	38,240,901	A	T	0.5364	-0.0075	0.0010	8.22E-13
rs2799851	1	38,606,443	A	G	0.4642	0.0055	0.0010	1.66E-07
rs6600293	1	40,083,819	A	C	0.0879	0.0087	0.0018	2.32E-06
rs785113	1	40,154,983	T	C	0.2265	0.0074	0.0013	3.45E-09
rs560902305	1	41,015,446	T	C	0.0041	0.0338	0.0087	9.46E-05
rs669863	1	41,063,956	A	G	0.7071	0.0062	0.0012	8.68E-08

rs6660666	1	41,763,018	T	C	0.6693	0.0067	0.0011	1.98E-09
rs56409354	1	41,772,971	A	G	0.2182	-0.0160	0.0013	1.64E-36
rs2364543	1	41,833,089	T	G	0.6077	0.0110	0.0011	2.22E-24
rs35011283	1	42,766,283	T	C	0.0902	0.0072	0.0018	8.70E-05
rs631248	1	44,071,221	A	G	0.7768	0.0206	0.0013	1.76E-60
rs9787076	1	44,141,149	A	C	0.6711	-0.0184	0.0011	3.47E-61
rs78050663	1	44,378,198	A	T	0.9293	-0.0013	0.0021	5.35E-01
rs1738050	1	44,707,295	C	G	0.6159	-0.0110	0.0011	1.49E-24
rs809774	1	46,560,244	A	T	0.7063	-0.0080	0.0011	2.69E-12
rs114331785	1	50,821,852	T	C	0.9795	0.0197	0.0037	1.35E-07
rs2653875	1	50,862,994	T	C	0.4838	-0.0067	0.0010	1.50E-10
rs145490767	1	52,635,178	C	G	0.9976	-0.0388	0.0109	3.97E-04
rs10788951	1	53,734,998	A	T	0.4045	-0.0100	0.0011	1.57E-20
rs112941314	1	53,961,283	A	G	0.0414	0.0135	0.0027	5.21E-07
rs4926634	1	54,887,598	A	G	0.5233	0.0052	0.0010	5.67E-07
rs857161	1	57,240,469	T	G	0.2766	-0.0039	0.0012	7.77E-04
rs548897	1	57,718,030	A	G	0.4491	0.0096	0.0011	5.03E-20
rs1917339	1	57,955,970	A	G	0.6468	0.0057	0.0011	1.95E-07
rs1417759	1	58,053,427	A	G	0.7340	0.0069	0.0012	5.76E-09
rs6698015	1	58,265,352	T	C	0.6141	0.0087	0.0011	5.40E-16
rs2764684	1	58,537,919	T	C	0.8279	0.0150	0.0014	2.64E-27
rs7537039	1	58,717,410	A	G	0.5705	-0.0068	0.0011	9.55E-11
rs6587843	1	59,540,811	T	C	0.4833	0.0074	0.0010	1.46E-12
rs76408332	1	61,097,545	T	C	0.0428	0.0102	0.0026	7.83E-05
rs6693597	1	61,582,546	T	G	0.8645	0.0090	0.0015	5.60E-09
rs6674884	1	61,832,445	A	T	0.8610	-0.0126	0.0015	7.30E-17
rs1168114	1	63,156,043	A	G	0.3306	-0.0073	0.0011	5.73E-11
rs11208750	1	66,257,838	A	C	0.1945	-0.0107	0.0013	5.73E-16
rs72667460	1	66,536,012	T	C	0.0538	0.0178	0.0023	1.52E-14
rs12731764	1	66,697,753	A	G	0.7396	-0.0073	0.0012	8.43E-10
rs17490057	1	67,109,277	C	G	0.0637	-0.0123	0.0021	1.09E-08
rs6682534	1	67,166,666	T	C	0.5970	0.0047	0.0011	8.76E-06
rs59861046	1	68,479,843	A	G	0.3642	0.0049	0.0011	5.50E-06
rs12091311	1	69,121,134	T	C	0.9477	0.0168	0.0024	9.38E-13
rs11589723	1	69,328,993	T	C	0.8976	-0.0127	0.0017	1.54E-13
rs10789284	1	69,786,186	A	G	0.2445	-0.0092	0.0012	3.41E-14
rs4650262	1	69,882,280	T	C	0.1277	0.0086	0.0016	5.38E-08
rs1418004	1	70,117,448	T	C	0.4184	-0.0081	0.0011	2.35E-14
rs621996	1	70,583,889	A	G	0.6251	0.0062	0.0011	8.17E-09
rs1213513	1	72,082,898	A	G	0.5922	0.0116	0.0011	8.62E-28
rs34305371	1	72,733,610	A	G	0.0993	0.0314	0.0018	1.77E-71
rs11581447	1	72,829,683	A	C	0.1989	-0.0196	0.0013	9.07E-51
rs11210176	1	73,654,543	A	G	0.4849	0.0017	0.0010	1.15E-01
rs10465817	1	73,975,686	A	C	0.3927	-0.0086	0.0011	8.09E-16
rs72685887	1	74,435,586	A	C	0.9532	-0.0190	0.0026	1.17E-13
rs6702487	1	74,641,019	T	C	0.5237	0.0105	0.0010	1.90E-23
rs280898	1	75,504,024	C	G	0.7303	-0.0066	0.0012	2.08E-08
rs77584294	1	75,541,089	A	C	0.0399	0.0259	0.0027	3.86E-22

rs76985288	1	75,741,206	T	G	0.9974	0.0258	0.0107	1.58E-02
rs12406883	1	76,066,498	A	C	0.8192	-0.0084	0.0014	7.30E-10
rs680970	1	77,092,222	T	C	0.5757	0.0071	0.0011	2.04E-11
rs12722889	1	77,420,020	A	T	0.5711	0.0074	0.0011	2.97E-12
rs6603950	1	77,938,087	A	G	0.4768	0.0118	0.0010	1.48E-29
rs71658797	1	77,967,507	A	T	0.1116	-0.0175	0.0017	8.72E-26
rs10782682	1	79,622,435	T	C	0.4853	0.0033	0.0010	1.82E-03
rs1279697	1	81,099,554	A	G	0.7986	-0.0077	0.0013	3.13E-09
rs11163305	1	81,947,234	A	G	0.7731	-0.0065	0.0012	2.34E-07
rs17429851	1	82,390,031	A	C	0.9451	-0.0089	0.0023	1.00E-04
rs11163454	1	82,739,679	C	G	0.1256	0.0072	0.0016	5.33E-06
rs2031707	1	83,288,825	T	C	0.7444	-0.0054	0.0012	8.44E-06
rs56270529	1	83,641,362	A	G	0.8289	-0.0072	0.0014	2.77E-07
rs3895004	1	85,041,144	A	G	0.6468	-0.0059	0.0011	7.11E-08
rs2807950	1	87,557,999	A	G	0.7916	-0.0060	0.0013	3.22E-06
rs11134970	1	87,719,452	A	G	0.3223	0.0066	0.0011	4.04E-09
rs12142415	1	88,578,657	T	C	0.7670	0.0073	0.0012	3.64E-09
rs7412939	1	88,715,934	C	G	0.5892	-0.0055	0.0011	2.60E-07
rs61767083	1	89,052,758	C	G	0.4084	-0.0078	0.0011	2.97E-13
rs34738385	1	89,804,736	T	C	0.7313	-0.0052	0.0012	1.12E-05
rs6684189	1	91,093,014	T	C	0.6302	-0.0084	0.0011	6.79E-15
rs12089815	1	91,189,933	A	G	0.5396	0.0185	0.0011	1.14E-69
rs7532549	1	93,539,656	T	G	0.6607	0.0129	0.0011	1.89E-31
rs23766	1	94,032,097	A	G	0.2278	-0.0109	0.0012	2.25E-18
rs72723192	1	94,389,345	T	C	0.1633	-0.0079	0.0014	2.22E-08
rs695032	1	96,101,891	A	G	0.7433	0.0065	0.0012	5.54E-08
rs6678734	1	96,176,563	A	G	0.5025	0.0111	0.0010	3.34E-26
rs321250	1	96,470,547	T	G	0.4225	-0.0088	0.0011	7.64E-17
rs17426562	1	97,036,113	A	G	0.0646	0.0170	0.0021	1.53E-15
rs4433451	1	97,378,162	T	C	0.0655	-0.0093	0.0021	1.15E-05
rs6677502	1	97,852,932	T	C	0.7958	-0.0078	0.0013	2.59E-09
rs79807948	1	97,923,785	A	G	0.9569	0.0144	0.0026	2.60E-08
rs4378243	1	98,395,881	T	G	0.8392	0.0162	0.0014	4.75E-30
rs14860384	1	98,632,274	A	C	0.0735	-0.0076	0.0020	1.62E-04
rs12124493	1	98,765,641	A	G	0.3130	-0.0117	0.0011	3.43E-25
rs35391040	1	99,161,184	A	C	0.0066	0.0221	0.0066	7.65E-04
rs6692379	1	99,221,575	A	G	0.1897	-0.0078	0.0013	6.16E-09
rs1394885	1	99,540,210	C	G	0.7857	0.0062	0.0013	1.36E-06
rs12028526	1	101,013,734	T	G	0.5576	0.0071	0.0011	1.50E-11
rs17125616	1	102,329,484	T	C	0.4961	0.0040	0.0010	1.15E-04
rs10047094	1	102,816,869	C	G	0.7345	-0.0056	0.0012	1.97E-06
rs9663072	1	103,588,507	A	G	0.6985	-0.0067	0.0011	5.08E-09
rs7544544	1	105,842,991	A	C	0.6316	0.0081	0.0011	6.41E-14
rs1888181	1	106,860,057	T	C	0.5487	-0.0072	0.0011	7.41E-12
rs13884194	1	106,922,293	A	C	0.0099	0.0194	0.0054	3.22E-04
rs7549469	1	107,304,576	A	T	0.6796	0.0089	0.0011	1.96E-15
rs2878349	1	107,549,245	A	G	0.3317	-0.0100	0.0011	2.01E-19
rs11185112	1	107,964,274	T	G	0.5122	-0.0041	0.0010	9.90E-05

rs610219	1	108,076,721	A	G	0.6727	0.0042	0.0011	1.79E-04
rs14184	1	110,047,110	C	G	0.7007	-0.0134	0.0011	6.96E-32
rs10745307	1	110,580,215	A	G	0.5474	-0.0107	0.0011	2.85E-24
rs77052120	1	110,765,398	T	C	0.0998	-0.0156	0.0018	4.85E-19
rs4839343	1	110,886,773	C	G	0.5397	-0.0060	0.0010	9.11E-09
rs1047401	1	112,259,272	T	C	0.8318	0.0089	0.0014	2.20E-10
rs197420	1	112,317,196	C	G	0.2144	-0.0095	0.0013	8.67E-14
rs12033257	1	112,318,484	A	G	0.6175	-0.0081	0.0011	7.13E-14
rs3121984	1	112,815,880	T	C	0.6900	0.0096	0.0011	2.75E-17
rs2999158	1	113,239,478	T	C	0.3324	0.0084	0.0011	4.89E-14
rs33965092	1	114,377,227	A	C	0.0310	-0.0261	0.0030	7.99E-18
rs10732635	1	114,519,351	T	G	0.5597	0.0070	0.0011	3.77E-11
rs149078852	1	114,548,082	A	G	0.0014	-0.0468	0.0161	3.68E-03
rs72692054	1	114,702,261	A	G	0.8890	0.0090	0.0017	6.99E-08
rs116470470	1	115,163,872	T	C	0.9434	-0.0118	0.0023	1.89E-07
rs2224086	1	115,309,590	A	C	0.7416	0.0066	0.0012	3.58E-08
rs2016890	1	115,674,621	T	C	0.3770	-0.0029	0.0011	7.60E-03
rs72699131	1	117,527,152	A	T	0.7084	-0.0038	0.0012	1.04E-03
rs1290552	1	118,054,772	T	G	0.7629	-0.0099	0.0012	6.14E-16
rs12139450	1	118,293,350	T	C	0.8853	-0.0055	0.0017	8.12E-04
rs12402787	1	145,609,971	T	C	0.6373	-0.0062	0.0011	1.18E-08
rs61841669	1	146,610,492	T	C	0.0203	0.0127	0.0038	8.54E-04
rs77944781	1	147,035,252	A	T	0.0309	-0.0149	0.0031	1.00E-06
rs35786175	1	149,951,467	T	G	0.0765	0.0115	0.0020	9.50E-09
rs11204779	1	151,074,626	A	G	0.7770	0.0080	0.0013	2.47E-10
rs9436029	1	151,367,378	T	C	0.1104	-0.0091	0.0017	5.71E-08
rs2017850	1	151,715,279	T	C	0.3475	0.0095	0.0011	5.75E-18
rs74844193	1	153,615,820	A	G	0.0161	-0.0295	0.0050	2.93E-09
rs112780312	1	153,797,015	A	G	0.2863	-0.0096	0.0012	1.10E-16
rs4845368	1	154,255,973	T	C	0.4092	-0.0023	0.0011	3.36E-02
rs12743874	1	154,257,188	A	T	0.7183	-0.0103	0.0012	2.10E-18
rs11586348	1	154,819,359	A	C	0.6589	0.0085	0.0011	1.60E-14
rs675661	1	156,087,206	A	G	0.9497	-0.0117	0.0024	1.16E-06
rs75160483	1	156,238,735	T	C	0.0253	-0.0236	0.0034	1.97E-12
rs863006	1	159,177,748	A	G	0.5624	-0.0098	0.0011	1.31E-20
rs1934074	1	159,897,388	T	C	0.3716	0.0055	0.0011	4.34E-07
rs17846717	1	160,109,636	C	G	0.8650	-0.0064	0.0015	3.41E-05
rs685	1	161,191,522	A	G	0.7742	-0.0078	0.0013	4.75E-10
rs115032752	1	161,451,118	T	C	0.9197	0.0127	0.0019	4.23E-11
rs80159981	1	162,332,368	T	C	0.8576	0.0092	0.0015	8.30E-10
rs79571229	1	162,661,893	A	G	0.0089	-0.0198	0.0058	6.01E-04
rs1934518	1	163,485,064	A	G	0.5450	-0.0048	0.0011	5.02E-06
rs1289020	1	163,667,287	A	G	0.5891	-0.0073	0.0011	5.87E-12
rs12132049	1	164,181,663	T	C	0.0572	0.0111	0.0023	8.71E-07
rs1038980	1	165,112,096	A	C	0.7273	-0.0051	0.0012	1.57E-05
rs1857947	1	165,285,370	T	G	0.0646	-0.0097	0.0021	5.56E-06
rs12065238	1	166,101,602	A	G	0.1696	0.0101	0.0014	4.57E-13
rs1027351	1	166,447,321	A	G	0.7993	-0.0043	0.0013	8.78E-04

rs189707046	1	169,160,349	A	C	0.3983	0.0093	0.0012	6.83E-14
rs2420016	1	169,261,356	A	G	0.3576	0.0094	0.0011	7.31E-18
rs10919252	1	169,802,956	C	G	0.6737	-0.0056	0.0011	4.78E-07
rs35041900	1	171,451,621	T	C	0.0907	-0.0155	0.0018	1.61E-17
rs12146022	1	171,451,959	A	T	0.1666	0.0079	0.0014	1.92E-08
rs6669168	1	171,460,027	A	T	0.8656	-0.0084	0.0015	3.76E-08
rs3817923	1	171,809,211	A	G	0.1132	-0.0113	0.0017	8.67E-12
rs12088073	1	174,497,642	A	C	0.5378	-0.0141	0.0011	1.21E-40
rs7550448	1	174,974,939	A	G	0.2241	0.0030	0.0013	1.74E-02
rs565960	1	175,850,823	T	C	0.7114	0.0087	0.0012	3.75E-14
rs2072934	1	176,851,548	A	C	0.0882	-0.0095	0.0018	2.74E-07
rs7556635	1	177,525,993	T	C	0.3216	-0.0062	0.0011	3.29E-08
rs3117755	1	177,701,056	A	C	0.6979	-0.0056	0.0011	9.41E-07
rs10913420	1	177,759,645	T	C	0.1726	0.0093	0.0014	1.66E-11
rs13306731	1	179,320,578	A	G	0.9263	-0.0104	0.0020	2.09E-07
rs10914136	1	180,896,930	C	G	0.5381	-0.0077	0.0011	2.01E-13
rs4652548	1	180,954,130	T	C	0.5889	0.0080	0.0011	3.93E-14
rs192772311	1	181,286,663	T	C	0.0046	-0.0391	0.0080	9.41E-07
rs11801667	1	181,498,421	T	C	0.3119	0.0075	0.0011	2.61E-11
rs35742190	1	183,679,666	T	G	0.4867	0.0073	0.0010	2.50E-12
rs12126231	1	184,698,816	A	G	0.6159	0.0117	0.0011	9.70E-28
rs1390496	1	187,276,553	A	G	0.2588	0.0059	0.0012	8.09E-07
rs1502595	1	189,550,729	A	G	0.5178	0.0068	0.0010	6.56E-11
rs75793314	1	190,039,966	A	G	0.0252	0.0133	0.0034	1.20E-04
rs61818779	1	190,319,316	A	G	0.7887	-0.0104	0.0013	6.35E-16
rs11577349	1	190,371,671	A	G	0.1767	0.0043	0.0014	1.61E-03
rs12047108	1	191,490,610	T	C	0.8953	0.0105	0.0017	8.97E-10
rs10921229	1	192,625,032	C	G	0.4416	0.0066	0.0011	2.99E-10
rs17613936	1	193,938,169	A	T	0.8462	-0.0078	0.0015	9.91E-08
rs12132767	1	194,500,495	A	G	0.1030	0.0074	0.0017	1.67E-05
rs2989975	1	195,753,448	T	C	0.5052	0.0054	0.0010	2.74E-07
rs12144060	1	196,116,663	A	C	0.8009	0.0077	0.0013	3.95E-09
rs2488401	1	197,702,401	T	C	0.2055	-0.0108	0.0013	1.35E-16
rs10922300	1	197,814,685	T	C	0.1677	0.0090	0.0014	1.22E-10
rs10919665	1	199,365,630	C	G	0.2098	-0.0077	0.0013	2.27E-09
rs1337731	1	199,444,151	A	G	0.3344	0.0086	0.0011	7.07E-15
rs374827	1	200,874,327	T	C	0.4936	0.0060	0.0010	1.14E-08
rs10920254	1	201,767,474	C	G	0.3563	0.0103	0.0011	3.75E-21
rs9660693	1	203,923,404	T	C	0.5522	0.0062	0.0011	3.60E-09
rs3747631	1	204,587,569	C	G	0.2148	0.0204	0.0013	7.17E-58
rs16854920	1	204,966,170	T	C	0.6632	-0.0083	0.0011	5.71E-14
rs192587581	1	205,212,987	A	G	0.0098	-0.0279	0.0054	2.16E-07
rs11578181	1	208,323,140	T	G	0.6944	-0.0075	0.0011	3.40E-11
rs12059203	1	209,635,861	A	G	0.8361	0.0062	0.0014	1.30E-05
rs12045428	1	210,351,222	A	C	0.1881	-0.0106	0.0013	2.76E-15
rs12071309	1	210,585,013	T	C	0.6804	-0.0062	0.0011	3.83E-08
rs1890846	1	210,910,268	T	G	0.5491	-0.0076	0.0011	6.37E-13
rs34440485	1	211,549,553	T	C	0.1643	-0.0123	0.0014	2.57E-18

rs12064553	1	212,397,008	A	T	0.2278	0.0093	0.0012	9.14E-14
rs190319273	1	212,819,321	A	G	0.0084	-0.0298	0.0059	3.63E-07
rs72743993	1	213,079,861	C	G	0.2981	-0.0060	0.0011	1.45E-07
rs1187769	1	213,514,236	T	C	0.2248	-0.0077	0.0013	7.00E-10
rs10157166	1	214,484,950	T	C	0.4028	-0.0076	0.0011	1.00E-12
rs148688785	1	217,685,863	A	G	0.0153	0.0207	0.0043	1.49E-06
rs7543828	1	220,425,914	T	C	0.1714	0.0105	0.0014	5.08E-14
rs4846724	1	221,967,817	A	G	0.5326	0.0077	0.0010	2.62E-13
rs7514140	1	224,312,130	C	G	0.9614	0.0138	0.0027	4.28E-07
rs9804142	1	225,673,847	T	C	0.6984	0.0073	0.0011	1.82E-10
rs114312101	1	227,303,589	A	T	0.0650	-0.0115	0.0021	6.81E-08
rs2895927	1	230,182,053	T	G	0.7866	0.0076	0.0013	2.56E-09
rs7543410	1	232,618,155	T	G	0.2422	0.0072	0.0012	3.60E-09
rs1329125	1	234,740,880	T	C	0.3254	-0.0124	0.0011	1.06E-28
rs12131823	1	235,554,749	A	G	0.5374	0.0103	0.0011	1.18E-22
rs918241	1	237,420,086	A	C	0.4856	0.0055	0.0010	1.45E-07
rs12725303	1	237,752,694	A	G	0.5119	0.0068	0.0010	8.60E-11
rs171881	1	241,032,670	A	T	0.2675	0.0057	0.0012	1.29E-06
rs10802932	1	241,353,614	T	C	0.4602	-0.0062	0.0011	3.79E-09
rs628720	1	241,806,189	T	C	0.6340	-0.0091	0.0011	3.90E-17
rs12569163	1	241,878,547	T	G	0.7883	-0.0123	0.0018	1.69E-11
rs7523793	1	242,253,024	T	C	0.6384	0.0078	0.0011	8.37E-13
rs2275154	1	243,433,654	A	G	0.6708	0.0156	0.0011	1.66E-44
rs320323	1	243,752,002	T	C	0.8637	0.0146	0.0015	1.31E-21
rs10927053	1	243,811,321	A	T	0.8944	-0.0173	0.0017	3.02E-24
rs78831166	1	244,269,227	A	G	0.0546	0.0135	0.0023	5.69E-09
rs515513	1	244,448,353	A	C	0.5332	-0.0087	0.0011	1.17E-16
rs6051439	20	2,834,433	T	C	0.3474	0.0069	0.0011	4.15E-10
rs2422859	20	3,132,828	T	G	0.5221	-0.0058	0.0010	2.42E-08
rs2208029	20	3,314,702	T	C	0.4819	0.0059	0.0010	1.96E-08
rs35273008	20	3,633,221	A	T	0.9841	0.0189	0.0042	7.04E-06
rs708912	20	8,403,550	T	C	0.7921	0.0104	0.0013	9.00E-16
rs6078382	20	11,883,794	A	C	0.3985	0.0058	0.0011	5.68E-08
rs6079462	20	14,466,997	T	G	0.7984	-0.0101	0.0013	1.26E-14
rs4141463	20	14,747,471	T	C	0.4176	-0.0086	0.0011	3.90E-16
rs6043521	20	15,739,745	T	C	0.6007	-0.0065	0.0011	9.84E-10
rs6044142	20	16,559,255	A	G	0.5694	-0.0074	0.0011	2.65E-12
rs2068078	20	16,947,769	T	G	0.7882	-0.0083	0.0013	7.14E-11
rs6034829	20	17,424,509	T	C	0.1784	0.0094	0.0014	5.62E-12
rs806768	20	17,814,600	A	G	0.6103	-0.0057	0.0011	9.13E-08
rs6045213	20	18,120,208	A	G	0.6672	0.0059	0.0011	1.33E-07
rs6035413	20	19,674,512	A	T	0.6516	-0.0088	0.0011	9.48E-16
rs4815005	20	20,893,309	T	C	0.1742	0.0073	0.0014	1.47E-07
rs6035877	20	21,512,532	A	C	0.5342	0.0072	0.0010	6.26E-12
rs4813456	20	22,308,161	C	G	0.3705	0.0076	0.0011	1.78E-12
rs2567608	20	23,017,082	T	C	0.5463	-0.0065	0.0011	6.48E-10
rs4813529	20	24,691,928	T	G	0.3283	-0.0075	0.0011	2.03E-11
rs6141759	20	31,177,292	A	G	0.2372	-0.0106	0.0012	6.50E-18

rs202224508	20	31,342,066	T	C	0.2304	-0.0121	0.0014	4.40E-17
rs4911257	20	31,359,574	T	C	0.6131	0.0098	0.0011	7.96E-20
rs6059989	20	33,279,604	A	G	0.5352	-0.0081	0.0010	1.37E-14
rs112579094	20	34,530,095	T	C	0.0724	0.0142	0.0020	2.50E-12
rs76212001	20	39,670,354	T	C	0.0787	-0.0101	0.0019	1.97E-07
rs188339128	20	39,691,791	T	C	0.0111	-0.0334	0.0050	2.70E-11
rs62208714	20	40,905,826	T	C	0.0672	-0.0098	0.0021	2.70E-06
rs6093705	20	41,257,630	A	C	0.6805	0.0095	0.0011	1.89E-17
rs1006749	20	41,716,653	A	G	0.5199	0.0063	0.0011	2.04E-09
rs4812671	20	41,761,291	A	T	0.5758	0.0061	0.0011	7.80E-09
rs6130354	20	41,978,786	T	G	0.8639	-0.0109	0.0015	1.14E-12
rs6030819	20	42,016,041	A	T	0.1958	-0.0114	0.0013	6.12E-18
rs9875	20	42,825,487	T	C	0.6886	-0.0069	0.0011	8.29E-10
rs7271519	20	43,626,696	T	C	0.6910	0.0098	0.0011	4.93E-18
rs3092073	20	44,595,649	A	G	0.4573	-0.0071	0.0011	1.25E-11
rs56374036	20	46,367,372	A	G	0.7872	-0.0088	0.0013	8.70E-12
rs6122735	20	47,523,732	T	C	0.3927	0.0073	0.0011	7.10E-12
rs6020560	20	49,119,419	T	C	0.5245	-0.0096	0.0010	6.94E-20
rs230009	20	49,734,175	A	G	0.4113	0.0073	0.0011	5.04E-12
rs6068200	20	51,072,377	A	G	0.3828	0.0073	0.0011	1.38E-11
rs6063897	20	51,606,879	C	G	0.2431	-0.0097	0.0012	2.09E-15
rs1606263	20	53,487,470	T	C	0.3110	-0.0092	0.0011	4.64E-16
rs6024420	20	54,371,100	T	C	0.3061	-0.0070	0.0011	8.71E-10
rs77901523	20	55,533,146	C	G	0.0345	0.0194	0.0029	1.29E-11
rs6070254	20	56,336,730	A	T	0.6747	0.0070	0.0011	3.67E-10
rs7261037	20	58,196,703	A	C	0.9578	0.0185	0.0026	1.34E-12
rs860973	20	58,247,236	T	C	0.1846	0.0100	0.0014	1.48E-13
rs1182532	20	58,393,545	A	C	0.1549	0.0111	0.0015	4.00E-14
rs2224427	20	58,736,133	A	G	0.4712	-0.0072	0.0010	6.21E-12
rs6027503	20	58,893,584	C	G	0.5689	-0.0081	0.0011	2.56E-14
rs6128812	20	58,992,369	T	C	0.8170	-0.0079	0.0014	4.85E-09
rs6027896	20	59,454,810	T	C	0.6717	0.0074	0.0011	3.73E-11
rs4812281	20	59,794,157	T	C	0.7402	0.0154	0.0012	3.74E-38
rs6028084	20	59,838,105	T	C	0.6106	0.0151	0.0011	3.44E-45
rs3761226	20	60,811,072	A	C	0.4857	-0.0063	0.0010	1.98E-09
rs16983844	20	62,225,508	A	G	0.2089	0.0107	0.0013	7.86E-17
rs6122051	20	62,714,026	T	C	0.2700	-0.0082	0.0012	5.72E-12
rs77149260	20	62,860,034	A	G	0.1233	0.0089	0.0016	2.55E-08
rs2824194	21	18,422,045	A	T	0.5035	0.0073	0.0010	3.97E-12
rs1389997	21	19,046,075	T	G	0.3238	0.0079	0.0011	1.50E-12
rs28807201	21	20,044,236	T	C	0.6998	-0.0114	0.0011	1.97E-23
rs2824999	21	20,060,670	T	C	0.7304	-0.0090	0.0012	1.98E-14
rs73224350	21	22,288,653	A	G	0.8618	0.0098	0.0015	1.33E-10
rs232464	21	22,695,321	T	C	0.2226	0.0092	0.0013	2.91E-13
rs207488	21	25,213,719	A	G	0.8177	0.0073	0.0014	7.51E-08
rs55745100	21	33,016,364	T	C	0.9462	-0.0140	0.0023	1.65E-09
rs71321400	21	33,103,158	A	G	0.1279	-0.0099	0.0016	2.69E-10
rs12627339	21	34,279,201	A	T	0.6982	0.0098	0.0011	9.96E-18

rs11701924	21	34,468,489	T	C	0.7370	-0.0079	0.0012	2.69E-11
rs62227705	21	34,919,593	A	C	0.7158	0.0074	0.0012	1.94E-10
rs2298679	21	35,247,460	T	C	0.2051	-0.0098	0.0013	4.21E-14
rs75877036	21	35,847,890	A	T	0.9422	-0.0145	0.0022	1.11E-10
rs9984313	21	39,193,774	T	C	0.7582	-0.0078	0.0012	1.65E-10
rs7280000	21	39,598,054	C	G	0.4172	0.0084	0.0011	1.92E-15
rs4818226	21	42,633,065	A	G	0.3202	0.0112	0.0011	1.51E-23
rs9976560	21	44,038,275	C	G	0.7497	0.0085	0.0012	2.66E-12
rs9977825	21	46,494,995	T	C	0.3630	-0.0099	0.0011	8.47E-20
rs744507	21	47,051,787	C	G	0.6274	-0.0074	0.0011	1.04E-11
rs74323354	21	47,843,163	A	G	0.9268	0.0112	0.0020	2.53E-08
rs2535692	22	18,157,282	A	G	0.2731	0.0069	0.0012	5.17E-09
rs419438	22	20,166,723	T	G	0.5395	-0.0071	0.0011	1.41E-11
rs654880	22	20,946,457	A	G	0.2224	-0.0084	0.0013	2.36E-11
rs3788337	22	23,412,017	A	G	0.3666	0.0068	0.0011	5.07E-10
rs2142840	22	25,507,595	C	G	0.3145	-0.0064	0.0011	1.26E-08
rs79020347	22	27,591,220	T	C	0.0196	-0.0215	0.0038	1.44E-08
rs2065057	22	27,975,321	A	T	0.7055	0.0082	0.0011	7.97E-13
rs134545	22	28,799,080	T	C	0.6426	-0.0080	0.0011	2.38E-13
rs2301586	22	29,702,910	A	T	0.6474	-0.0071	0.0011	9.63E-11
rs2530661	22	30,024,263	T	C	0.4683	0.0110	0.0010	7.37E-26
rs737945	22	30,202,774	C	G	0.4466	-0.0122	0.0011	3.53E-31
rs2413005	22	31,405,191	T	C	0.3118	0.0081	0.0011	6.39E-13
rs4821186	22	34,217,224	T	C	0.2807	-0.0046	0.0012	8.04E-05
rs738988	22	34,289,025	A	G	0.7149	-0.0160	0.0012	1.36E-43
rs16993330	22	34,343,697	A	C	0.0587	-0.0240	0.0022	6.06E-27
rs11703948	22	38,817,047	A	G	0.9047	-0.0146	0.0018	2.97E-16
rs79157023	22	39,154,316	T	C	0.9474	-0.0103	0.0024	1.41E-05
rs77516118	22	39,647,168	T	C	0.7454	-0.0093	0.0012	1.01E-14
rs12170452	22	40,019,773	A	G	0.4445	0.0103	0.0011	9.16E-23
rs41311445	22	42,070,374	A	C	0.9010	0.0127	0.0018	5.19E-13
rs133351	22	42,431,246	T	G	0.3968	-0.0060	0.0011	1.74E-08
rs137121	22	43,013,554	T	C	0.1270	0.0127	0.0016	8.12E-16
rs5759006	22	43,273,740	C	G	0.5188	0.0082	0.0010	5.08E-15
rs8136156	22	43,309,509	A	G	0.5534	0.0079	0.0012	7.92E-12
rs5765717	22	44,917,646	T	G	0.4867	-0.0072	0.0010	4.66E-12
rs9626920	22	46,428,993	A	G	0.4113	0.0064	0.0011	2.32E-09
rs710124	22	47,080,465	T	C	0.6301	0.0055	0.0011	3.84E-07
rs801652	22	47,202,691	T	C	0.7286	0.0081	0.0012	5.55E-12
rs142237780	22	48,030,529	T	C	0.0368	0.0176	0.0028	4.77E-10
rs5768157	22	48,315,016	A	G	0.6631	0.0067	0.0011	1.47E-09
rs971136	22	48,438,408	A	G	0.6220	-0.0089	0.0011	2.21E-16
rs2338719	22	48,879,639	T	C	0.3413	0.0084	0.0011	2.83E-14
rs11541025	22	50,354,819	A	C	0.3130	0.0058	0.0012	4.46E-07
rs5771204	22	50,614,476	T	C	0.5802	0.0067	0.0011	2.48E-10
rs1024374	22	51,149,320	C	G	0.5398	0.0098	0.0011	2.05E-20
rs10519486	2	1,788,847	A	G	0.2294	0.0022	0.0012	7.24E-02
rs6737433	2	1,903,987	C	G	0.7747	0.0095	0.0013	4.56E-14

rs11686212	2	3,392,295	A	G	0.6288	-0.0077	0.0011	1.59E-12
rs9789761	2	3,841,136	T	C	0.1077	0.0070	0.0017	3.03E-05
rs71449692	2	3,879,359	A	G	0.9779	-0.0088	0.0037	1.71E-02
rs2218006	2	4,124,058	A	G	0.6006	-0.0056	0.0011	1.77E-07
rs669952	2	4,563,477	A	G	0.1875	0.0078	0.0013	6.31E-09
rs17581422	2	4,825,542	T	C	0.2224	0.0146	0.0013	3.12E-31
rs7603132	2	4,951,548	A	G	0.1897	0.0173	0.0013	2.70E-38
rs1453768	2	5,390,932	A	G	0.3824	0.0061	0.0011	1.23E-08
rs73914230	2	5,829,704	A	G	0.9638	0.0230	0.0028	2.84E-16
rs114244805	2	5,834,493	T	C	0.9625	0.0091	0.0028	1.13E-03
rs4322814	2	5,847,675	A	G	0.1926	-0.0065	0.0013	1.01E-06
rs10186870	2	6,712,550	T	G	0.6013	-0.0060	0.0011	1.91E-08
rs10929474	2	7,377,513	A	T	0.2135	0.0114	0.0013	5.12E-19
rs6760539	2	7,437,313	A	G	0.3046	0.0092	0.0011	5.35E-16
rs35739581	2	8,088,520	T	C	0.9179	0.0130	0.0020	3.78E-11
rs76076331	2	10,977,585	T	C	0.1299	0.0221	0.0016	1.54E-45
rs4669646	2	11,061,715	A	G	0.0298	0.0137	0.0031	8.10E-06
rs72779901	2	12,365,236	A	C	0.0832	0.0088	0.0019	3.69E-06
rs72779695	2	12,797,853	T	C	0.1181	-0.0140	0.0016	7.03E-18
rs2459338	2	13,050,027	A	G	0.4840	0.0077	0.0010	1.83E-13
rs13017679	2	13,660,299	A	T	0.6565	-0.0061	0.0011	2.80E-08
rs12615825	2	15,462,120	T	C	0.7748	-0.0077	0.0013	9.96E-10
rs11096574	2	16,644,988	T	G	0.2677	0.0090	0.0012	2.83E-14
rs312961	2	21,349,199	T	C	0.6282	-0.0044	0.0011	5.03E-05
rs6738860	2	22,442,099	A	T	0.4539	-0.0094	0.0011	4.66E-19
rs13030436	2	23,301,140	T	C	0.4340	0.0079	0.0011	8.77E-14
rs12986598	2	23,633,170	T	G	0.2712	-0.0050	0.0012	2.05E-05
rs2176263	2	24,092,773	C	G	0.6043	0.0070	0.0011	8.59E-11
rs17763463	2	24,256,071	T	C	0.9029	0.0104	0.0018	3.42E-09
rs183720801	2	25,427,592	A	G	0.0294	-0.0044	0.0031	1.61E-01
rs11681881	2	25,444,521	A	G	0.8651	-0.0103	0.0015	2.78E-11
rs192230289	2	25,454,104	T	C	0.0171	-0.0266	0.0041	5.24E-11
rs555621092	2	26,923,070	A	G	0.0051	-0.0359	0.0078	3.89E-06
rs183231865	2	27,366,299	T	G	0.9909	-0.0263	0.0057	3.93E-06
rs188743186	2	27,561,317	A	G	0.1819	-0.0075	0.0016	1.77E-06
rs780110	2	27,685,388	A	G	0.4336	-0.0090	0.0011	4.61E-15
rs7600066	2	28,432,793	T	C	0.1935	-0.0102	0.0013	1.46E-14
rs7585998	2	28,584,077	C	G	0.2553	-0.0030	0.0012	1.17E-02
rs56178008	2	29,098,543	A	T	0.4315	0.0097	0.0011	3.70E-20
rs12996631	2	29,572,299	A	G	0.6043	-0.0060	0.0011	2.21E-08
rs13017699	2	30,376,345	A	T	0.5636	0.0061	0.0011	8.28E-09
rs7594102	2	31,219,424	A	C	0.6717	-0.0049	0.0011	1.15E-05
rs4630806	2	31,292,715	T	C	0.4790	0.0037	0.0010	4.48E-04
rs10185507	2	34,143,568	T	C	0.4762	0.0069	0.0010	5.77E-11
rs6717900	2	34,386,394	A	G	0.3677	0.0091	0.0011	4.93E-17
rs28607949	2	35,041,094	T	C	0.4539	-0.0082	0.0011	9.51E-15
rs6543891	2	35,207,592	T	C	0.3100	-0.0040	0.0011	4.04E-04
rs1595725	2	35,767,662	A	G	0.2436	-0.0081	0.0012	2.96E-11

rs305191	2	36,252,564	T	C	0.2675	0.0091	0.0012	1.76E-14
rs3770963	2	36,588,106	T	C	0.6792	-0.0073	0.0011	8.59E-11
rs3770772	2	37,192,607	T	C	0.7452	0.0075	0.0012	4.55E-10
rs2707237	2	38,095,622	A	G	0.5308	0.0039	0.0010	2.28E-04
rs3112178	2	38,960,967	A	G	0.2514	-0.0070	0.0012	7.66E-09
rs984707	2	40,596,632	T	G	0.3897	0.0062	0.0011	9.67E-09
rs148738365	2	40,836,791	T	C	0.0474	-0.0090	0.0025	2.71E-04
rs10180845	2	41,475,868	T	C	0.6343	-0.0096	0.0011	1.02E-18
rs188691722	2	41,588,757	A	G	0.9917	-0.0217	0.0058	2.01E-04
rs74507577	2	41,931,366	T	C	0.0546	-0.0088	0.0023	1.37E-04
rs11891679	2	42,275,726	C	G	0.7534	0.0036	0.0012	3.27E-03
rs13016201	2	43,011,795	T	C	0.1615	-0.0076	0.0014	8.34E-08
rs75313851	2	44,591,972	A	G	0.0647	-0.0185	0.0021	2.88E-18
rs12468040	2	44,854,981	T	G	0.3774	0.0115	0.0011	1.20E-26
rs343958	2	44,942,019	A	G	0.1502	0.0048	0.0015	1.06E-03
rs741813	2	45,167,886	A	T	0.5642	-0.0085	0.0011	6.57E-16
rs141921322	2	47,234,937	C	G	0.9969	-0.0358	0.0095	1.70E-04
rs3136337	2	48,028,465	T	C	0.1072	-0.0101	0.0017	2.33E-09
rs79073127	2	48,573,895	C	G	0.1204	-0.0135	0.0016	6.18E-17
rs4316980	2	48,650,308	T	C	0.3053	0.0101	0.0011	7.75E-19
rs56012105	2	49,080,934	T	G	0.6014	-0.0089	0.0011	7.11E-17
rs12713051	2	49,562,932	A	G	0.3379	0.0057	0.0011	2.53E-07
rs57081355	2	49,605,567	T	C	0.0855	-0.0160	0.0019	1.05E-17
rs11895566	2	49,854,117	T	C	0.5616	-0.0060	0.0011	9.96E-09
rs12476510	2	50,391,401	T	C	0.0843	0.0063	0.0019	8.29E-04
rs1851013	2	50,630,572	T	C	0.3740	-0.0095	0.0011	1.54E-18
rs10189177	2	50,744,732	T	C	0.6143	-0.0074	0.0011	8.05E-12
rs3850335	2	51,010,895	T	C	0.1982	-0.0041	0.0013	1.61E-03
rs62140599	2	51,017,478	A	T	0.7842	0.0158	0.0013	1.26E-35
rs62142894	2	51,539,442	T	C	0.2615	0.0097	0.0012	5.26E-16
rs7423940	2	51,562,273	A	G	0.6204	-0.0006	0.0011	6.00E-01
rs116650695	2	51,647,759	C	G	0.0238	-0.0166	0.0035	1.55E-06
rs1516180	2	51,932,130	T	C	0.1180	0.0208	0.0016	1.56E-37
rs78006700	2	52,211,374	A	G	0.9590	-0.0141	0.0026	8.30E-08
rs1344594	2	53,416,895	C	G	0.0766	0.0124	0.0020	2.84E-10
rs10177230	2	53,715,181	T	C	0.4924	0.0064	0.0010	1.07E-09
rs193262992	2	53,738,317	T	C	0.0127	0.0146	0.0047	2.10E-03
rs62138036	2	54,418,977	A	G	0.0316	-0.0129	0.0033	7.84E-05
rs6726292	2	55,156,630	A	G	0.2759	0.0012	0.0012	3.15E-01
rs75002848	2	55,234,345	T	C	0.0794	0.0089	0.0019	4.67E-06
rs78539852	2	55,304,186	T	C	0.9370	0.0125	0.0022	6.08E-09
rs3099082	2	55,586,647	T	G	0.5673	0.0070	0.0011	2.64E-11
rs888280	2	56,431,425	A	T	0.1301	-0.0081	0.0016	2.16E-07
rs17047680	2	56,466,964	A	G	0.2390	0.0074	0.0012	1.32E-09
rs11676604	2	57,410,634	A	G	0.3874	-0.0084	0.0011	3.86E-15
rs13021827	2	57,876,873	T	C	0.7750	0.0103	0.0013	2.20E-16
rs11688767	2	57,988,194	A	T	0.5107	-0.0143	0.0010	2.39E-42
rs11884509	2	58,666,295	C	G	0.8758	0.0173	0.0016	9.13E-28

rs72817932	2	58,927,781	A	G	0.0366	-0.0066	0.0028	1.89E-02
rs17049712	2	58,961,136	T	C	0.2966	-0.0134	0.0011	1.01E-31
rs2540323	2	58,973,397	A	T	0.0969	0.0075	0.0018	2.45E-05
rs186770769	2	59,049,405	A	C	0.0041	-0.0138	0.0084	1.01E-01
rs6704856	2	59,170,069	T	C	0.3166	0.0099	0.0011	1.17E-18
rs13019114	2	59,314,142	T	C	0.6309	-0.0059	0.0011	4.58E-08
rs10210132	2	59,471,298	T	C	0.1731	0.0072	0.0014	1.90E-07
rs11691352	2	59,949,495	A	G	0.3308	0.0077	0.0011	3.26E-12
rs11679269	2	60,061,855	A	G	0.0757	-0.0075	0.0020	1.63E-04
rs359261	2	60,487,134	T	C	0.3670	0.0101	0.0011	3.16E-20
rs56158183	2	60,632,924	A	G	0.0760	0.0237	0.0020	3.43E-33
rs10189857	2	60,713,235	A	G	0.5701	0.0138	0.0011	7.74E-39
rs2195086	2	60,814,466	T	G	0.8447	0.0125	0.0014	5.37E-18
rs72805319	2	60,883,140	T	C	0.0135	-0.0106	0.0045	1.94E-02
rs141627034	2	61,427,563	A	G	0.0252	-0.0199	0.0034	4.98E-09
rs10496091	2	61,482,261	A	G	0.2803	-0.0131	0.0012	3.53E-29
rs4672530	2	62,748,319	T	C	0.1137	0.0110	0.0016	2.81E-11
rs35443214	2	63,297,247	T	C	0.8203	0.0078	0.0014	1.26E-08
rs55940715	2	63,929,776	T	C	0.0150	-0.0119	0.0043	5.84E-03
rs149904187	2	65,221,632	T	C	0.9938	-0.0232	0.0069	7.46E-04
rs35512022	2	65,394,309	A	G	0.2823	-0.0054	0.0012	3.33E-06
rs6740462	2	65,667,272	A	C	0.7378	-0.0088	0.0012	1.25E-13
rs1819852	2	65,892,430	A	G	0.4396	-0.0053	0.0011	4.69E-07
rs2287281	2	65,970,726	A	T	0.4252	-0.0042	0.0011	6.70E-05
rs2049019	2	66,671,858	A	C	0.6812	0.0048	0.0011	2.01E-05
rs1820986	2	68,075,346	A	G	0.1373	-0.0116	0.0015	2.35E-14
rs6731373	2	68,503,044	A	G	0.3456	-0.0087	0.0011	2.64E-15
rs180734848	2	69,591,691	T	C	0.9964	-0.0291	0.0089	1.13E-03
rs564868076	2	70,478,519	A	G	0.0022	-0.0323	0.0118	6.33E-03
rs2706762	2	70,488,470	T	C	0.1478	0.0082	0.0015	2.85E-08
rs58465019	2	71,391,163	A	G	0.5981	-0.0060	0.0011	1.78E-08
rs10190799	2	72,392,588	A	T	0.6271	-0.0072	0.0011	2.88E-11
rs34363861	2	73,490,412	A	G	0.5208	0.0085	0.0011	5.26E-16
rs12620091	2	73,906,819	T	C	0.5941	0.0050	0.0011	2.83E-06
rs828867	2	74,334,462	A	G	0.5435	-0.0055	0.0011	2.11E-07
rs7560024	2	75,828,086	A	T	0.3363	-0.0028	0.0011	1.01E-02
rs142520681	2	75,840,147	T	C	0.0022	-0.0165	0.0116	1.53E-01
rs75724179	2	76,480,638	A	G	0.0101	0.0210	0.0053	6.47E-05
rs10190071	2	77,893,810	A	C	0.4212	0.0051	0.0011	1.73E-06
rs187587509	2	77,969,663	A	T	0.9841	-0.0124	0.0043	4.04E-03
rs2056385	2	78,867,675	A	T	0.7983	0.0045	0.0013	5.18E-04
rs140845626	2	79,490,938	T	C	0.0155	-0.0143	0.0043	7.85E-04
rs1159457	2	80,002,274	T	G	0.9558	-0.0074	0.0025	3.48E-03
rs2916490	2	80,192,352	A	G	0.3069	-0.0104	0.0011	4.04E-20
rs111376634	2	80,247,352	A	C	0.0407	0.0118	0.0027	1.01E-05
rs77599217	2	80,413,713	T	C	0.9141	-0.0139	0.0019	1.10E-13
rs75931210	2	80,540,462	T	C	0.9653	0.0194	0.0029	1.34E-11
rs6759220	2	80,590,324	A	G	0.2322	-0.0045	0.0012	2.54E-04

rs1971117	2	80,713,484	C	G	0.6820	-0.0053	0.0011	3.05E-06
rs6738160	2	81,392,921	T	C	0.5027	-0.0045	0.0010	2.03E-05
rs72919450	2	81,999,568	T	C	0.1027	-0.0118	0.0017	7.08E-12
rs12471362	2	82,388,445	C	G	0.2356	-0.0055	0.0012	7.41E-06
rs114638730	2	83,059,163	T	C	0.0128	-0.0255	0.0047	5.11E-08
rs114363006	2	84,499,954	T	C	0.9866	-0.0084	0.0046	6.76E-02
rs72932883	2	84,545,030	C	G	0.8408	0.0073	0.0014	2.95E-07
rs11683207	2	98,333,290	T	C	0.8282	0.0087	0.0014	4.12E-10
rs147607334	2	98,433,691	T	C	0.0215	-0.0213	0.0040	8.03E-08
rs115652492	2	98,462,458	T	C	0.0235	-0.0218	0.0035	2.97E-10
rs62156718	2	98,862,214	T	C	0.0640	0.0120	0.0021	2.15E-08
rs180957422	2	99,954,467	T	C	0.9919	0.0225	0.0060	1.77E-04
rs6715321	2	100,109,001	T	C	0.4284	-0.0098	0.0011	2.20E-20
rs146297952	2	100,553,210	A	G	0.0102	0.0166	0.0053	1.91E-03
rs35300735	2	100,667,829	A	G	0.1855	0.0196	0.0013	7.38E-48
rs4583487	2	100,837,126	T	G	0.3961	0.0230	0.0011	2.58E-102
rs111675296	2	100,871,571	C	G	0.9559	0.0164	0.0026	1.45E-10
rs6542924	2	100,893,113	A	C	0.6796	0.0206	0.0011	3.42E-75
rs2942904	2	101,306,999	A	G	0.4898	0.0077	0.0010	1.83E-13
rs11683877	2	101,644,855	A	G	0.3040	-0.0082	0.0011	4.27E-13
rs118129147	2	101,756,135	A	T	0.0018	0.0471	0.0127	1.97E-04
rs7577705	2	102,020,770	A	G	0.8093	0.0044	0.0013	9.02E-04
rs139472275	2	103,895,426	T	C	0.1189	0.0097	0.0016	2.35E-09
rs34748029	2	104,060,003	A	C	0.0866	0.0189	0.0019	7.58E-24
rs1837714	2	104,450,445	C	G	0.3952	0.0130	0.0011	8.34E-34
rs6717419	2	104,498,762	C	G	0.0022	0.0056	0.0115	6.25E-01
rs182550251	2	104,708,055	T	G	0.9975	0.0301	0.0109	5.66E-03
rs57463591	2	105,869,624	T	C	0.1290	0.0091	0.0016	5.85E-09
rs13429686	2	105,925,165	A	G	0.8725	0.0145	0.0016	1.86E-20
rs6724709	2	107,260,133	C	G	0.4027	0.0050	0.0011	3.17E-06
rs9789595	2	107,539,301	T	C	0.6081	0.0138	0.0011	9.16E-38
rs1820310	2	107,982,974	A	C	0.2575	0.0049	0.0012	4.96E-05
rs182547196	2	109,297,803	A	G	0.9881	0.0088	0.0049	7.35E-02
rs7589741	2	109,950,545	A	T	0.3882	-0.0069	0.0011	1.24E-10
rs3811038	2	113,240,183	T	C	0.7214	0.0095	0.0012	4.05E-16
rs72823521	2	113,446,619	T	G	0.1992	0.0069	0.0013	1.83E-07
rs1049137	2	113,975,110	A	G	0.7463	-0.0065	0.0012	6.18E-08
rs11900605	2	114,449,152	T	C	0.4159	0.0051	0.0011	1.29E-06
rs62164492	2	115,798,618	C	G	0.8645	0.0075	0.0015	1.09E-06
rs12621553	2	116,152,348	T	C	0.5585	-0.0069	0.0011	5.74E-11
rs532638370	2	116,825,567	T	C	0.0066	0.0138	0.0068	4.37E-02
rs28513960	2	117,588,471	A	G	0.3769	0.0058	0.0011	8.64E-08
rs6705667	2	118,624,064	A	G	0.4524	-0.0051	0.0011	1.14E-06
rs1438856	2	119,570,839	A	G	0.3532	-0.0039	0.0011	4.17E-04
rs11691795	2	120,350,946	A	T	0.1830	0.0080	0.0014	3.32E-09
rs71424326	2	120,489,240	T	C	0.0580	-0.0139	0.0023	7.25E-10
rs12613044	2	122,626,526	C	G	0.4463	-0.0072	0.0011	1.10E-11
rs116156258	2	122,653,927	T	C	0.0181	0.0059	0.0040	1.36E-01

rs62169215	2	123,576,559	T	G	0.7660	-0.0082	0.0012	2.76E-11
rs11895308	2	124,035,378	T	C	0.3915	0.0034	0.0011	1.65E-03
rs7573618	2	124,428,611	A	G	0.3987	0.0075	0.0011	2.57E-12
rs56201719	2	125,012,058	C	G	0.2877	0.0110	0.0012	1.23E-21
rs12612022	2	125,290,839	T	C	0.6817	0.0065	0.0011	9.27E-09
rs72843198	2	125,293,580	T	C	0.0482	0.0171	0.0024	2.99E-12
rs141637611	2	125,425,037	A	C	0.0026	0.0291	0.0106	6.13E-03
rs148064621	2	125,952,405	A	C	0.9971	0.0223	0.0101	2.71E-02
rs193244405	2	126,034,805	T	C	0.1003	-0.0134	0.0017	1.62E-14
rs187430004	2	127,002,506	T	C	0.0020	0.0295	0.0120	1.41E-02
rs28387129	2	127,427,673	T	C	0.1002	0.0077	0.0018	1.19E-05
rs59038595	2	127,957,428	A	C	0.4204	-0.0069	0.0011	7.78E-11
rs7578247	2	128,562,813	A	G	0.6377	-0.0080	0.0011	2.25E-13
rs34739831	2	129,588,757	A	G	0.8427	0.0072	0.0014	5.88E-07
rs1922715	2	129,953,740	T	C	0.4310	0.0044	0.0011	3.54E-05
rs2521934	2	130,376,928	A	G	0.6357	-0.0037	0.0011	7.06E-04
rs112349871	2	130,395,286	T	G	0.0260	0.0139	0.0033	2.65E-05
rs2315598	2	133,277,754	T	C	0.4414	-0.0051	0.0011	1.05E-06
rs527837917	2	133,980,564	A	G	0.9981	0.0278	0.0127	2.86E-02
rs72843280	2	134,536,352	A	C	0.8229	-0.0045	0.0014	1.16E-03
rs16830012	2	134,812,663	T	G	0.9658	-0.0109	0.0029	1.66E-04
rs115430075	2	135,205,052	A	G	0.9860	0.0079	0.0045	8.03E-02
rs1346825	2	137,259,109	T	C	0.1314	0.0047	0.0015	2.36E-03
rs7340271	2	137,492,022	A	G	0.5064	0.0030	0.0010	3.63E-03
rs16839236	2	138,404,751	A	G	0.5134	-0.0035	0.0010	7.25E-04
rs11897647	2	138,451,864	T	C	0.1811	0.0092	0.0014	1.33E-11
rs16840311	2	138,864,290	A	G	0.3978	-0.0055	0.0011	2.19E-07
rs7601784	2	139,470,731	A	G	0.1339	0.0103	0.0015	1.95E-11
rs344698	2	140,129,860	A	G	0.2095	0.0054	0.0013	2.80E-05
rs11902126	2	140,174,172	A	T	0.2637	-0.0076	0.0012	1.75E-10
rs58101352	2	140,277,226	A	G	0.9792	-0.0291	0.0037	2.40E-15
rs1464297	2	140,653,749	T	C	0.6515	-0.0107	0.0011	2.05E-22
rs4461204	2	141,600,541	T	C	0.0728	-0.0119	0.0020	3.26E-09
rs13026625	2	141,949,960	T	C	0.4703	0.0084	0.0010	1.50E-15
rs11685467	2	142,197,623	A	G	0.2327	0.0043	0.0012	4.81E-04
rs1483149	2	142,319,979	T	C	0.2689	-0.0121	0.0012	1.33E-24
rs355588	2	142,385,034	A	G	0.9388	0.0178	0.0022	3.66E-16
rs1191970	2	142,759,003	A	G	0.3300	-0.0056	0.0011	5.35E-07
rs9287335	2	143,006,923	A	T	0.2733	-0.0055	0.0012	2.66E-06
rs1017752	2	143,380,979	T	C	0.4902	-0.0089	0.0010	2.44E-17
rs3856363	2	143,902,663	T	C	0.2661	-0.0036	0.0012	2.18E-03
rs10189912	2	144,162,609	A	G	0.6362	-0.0134	0.0011	4.10E-35
rs28396876	2	144,487,090	A	G	0.6169	-0.0125	0.0011	2.45E-31
rs17666845	2	144,816,988	A	G	0.6944	-0.0077	0.0011	1.13E-11
rs35339313	2	145,139,727	T	C	0.3517	0.0069	0.0011	2.78E-10
rs12327962	2	145,218,605	A	G	0.1334	-0.0074	0.0015	1.53E-06
rs11682833	2	145,623,920	T	C	0.0739	-0.0191	0.0020	1.39E-21
rs55855159	2	145,749,950	T	C	0.2712	0.0097	0.0012	1.58E-16

rs274842	2	145,922,779	A	G	0.3843	-0.0080	0.0011	1.11E-13
rs187841532	2	146,203,298	A	G	0.0012	0.0552	0.0159	5.12E-04
rs1484916	2	146,350,066	C	G	0.0598	-0.0059	0.0022	7.29E-03
rs189887894	2	146,471,967	A	T	0.0062	0.0115	0.0068	9.14E-02
rs79766583	2	146,701,256	T	G	0.1272	0.0086	0.0016	4.47E-08
rs10432338	2	147,806,785	T	G	0.1865	-0.0075	0.0013	2.69E-08
rs12476278	2	148,123,250	A	G	0.1596	0.0039	0.0014	6.84E-03
rs17742342	2	148,633,936	A	C	0.7990	-0.0127	0.0013	2.97E-22
rs13423152	2	149,200,767	T	C	0.7373	0.0040	0.0012	8.66E-04
rs12614977	2	149,510,282	A	G	0.0663	0.0061	0.0021	3.82E-03
rs10173759	2	150,727,271	T	C	0.0247	-0.0070	0.0034	3.87E-02
rs745720	2	150,858,540	T	C	0.1710	0.0054	0.0014	1.04E-04
rs2222760	2	151,345,113	A	G	0.2826	-0.0079	0.0012	8.24E-12
rs5011637	2	151,645,050	T	G	0.2617	0.0055	0.0012	3.15E-06
rs2190368	2	151,752,775	A	G	0.5090	0.0060	0.0010	1.16E-08
rs35233519	2	151,998,046	T	C	0.3489	-0.0065	0.0011	3.94E-09
rs35025729	2	152,000,796	T	C	0.2338	0.0064	0.0012	2.23E-07
rs34288092	2	153,177,757	A	G	0.0747	-0.0073	0.0020	2.29E-04
rs35087630	2	154,793,237	A	T	0.2673	0.0076	0.0012	1.64E-10
rs62172784	2	154,824,502	A	G	0.8925	0.0103	0.0017	1.32E-09
rs799809	2	155,197,887	A	T	0.7048	-0.0065	0.0011	1.47E-08
rs16837770	2	155,366,857	A	G	0.2005	-0.0056	0.0013	1.71E-05
rs62170775	2	155,535,967	T	G	0.4460	-0.0083	0.0011	2.62E-15
rs2591158	2	155,647,666	T	G	0.6711	-0.0061	0.0011	5.98E-08
rs1900132	2	155,703,068	A	G	0.7126	-0.0051	0.0012	8.94E-06
rs11677994	2	156,463,754	A	G	0.4107	0.0007	0.0011	5.24E-01
rs2139036	2	156,511,426	T	C	0.6785	-0.0057	0.0011	4.57E-07
rs148259429	2	156,608,859	A	G	0.9852	-0.0185	0.0044	3.10E-05
rs12473428	2	156,693,900	T	C	0.9021	0.0105	0.0018	2.25E-09
rs2103263	2	156,837,934	T	C	0.6561	-0.0065	0.0011	3.90E-09
rs61597598	2	156,996,626	A	G	0.1274	-0.0090	0.0016	9.63E-09
rs72892121	2	157,134,495	T	C	0.9332	0.0165	0.0021	3.29E-15
rs34967558	2	157,490,241	T	C	0.7640	-0.0101	0.0012	2.56E-16
rs7601304	2	157,707,699	A	T	0.8767	0.0066	0.0016	3.28E-05
rs143832276	2	157,908,788	A	T	0.9927	-0.0183	0.0062	3.16E-03
rs185923464	2	158,487,190	A	G	0.0248	-0.0122	0.0034	2.98E-04
rs758278	2	158,862,120	A	G	0.3740	0.0039	0.0011	3.63E-04
rs4664980	2	159,439,911	T	C	0.7970	0.0088	0.0013	1.05E-11
rs11693305	2	159,597,901	A	G	0.0877	0.0101	0.0019	5.34E-08
rs7567974	2	160,271,750	T	G	0.1699	0.0061	0.0014	1.07E-05
rs17829933	2	160,861,579	A	G	0.3275	-0.0007	0.0011	5.15E-01
rs12998587	2	161,242,295	T	C	0.2974	0.0092	0.0011	9.64E-16
rs55874516	2	161,359,854	A	G	0.0368	0.0251	0.0028	1.61E-19
rs13025770	2	161,495,726	T	C	0.1831	-0.0090	0.0014	2.90E-11
rs2884364	2	161,977,647	A	G	0.3818	-0.0159	0.0011	1.29E-49
rs3171840	2	162,105,530	T	C	0.2940	0.0132	0.0011	9.69E-31
rs12617656	2	162,851,147	T	C	0.6754	-0.0130	0.0013	4.16E-24
rs13416088	2	162,997,659	A	G	0.1925	-0.0045	0.0013	7.28E-04

rs2615327	2	164,348,164	C	G	0.3759	-0.0118	0.0011	1.11E-27
rs10497239	2	164,531,305	A	T	0.1634	-0.0080	0.0014	1.72E-08
rs17183814	2	166,152,389	A	G	0.0725	-0.0059	0.0020	3.50E-03
rs7567296	2	166,295,835	A	G	0.7638	0.0040	0.0012	1.23E-03
rs10497260	2	166,310,361	A	T	0.0826	-0.0140	0.0019	2.05E-13
rs1551336	2	166,460,479	T	C	0.4276	-0.0052	0.0011	8.72E-07
rs10803801	2	166,656,507	T	C	0.2747	-0.0105	0.0012	3.06E-19
rs11887519	2	167,246,517	T	C	0.1336	-0.0029	0.0015	5.59E-02
rs18677236	2	167,413,648	T	C	0.0177	0.0091	0.0040	2.34E-02
rs67300634	2	167,432,379	A	T	0.5517	0.0047	0.0011	6.65E-06
rs76474225	2	169,112,526	T	C	0.0604	-0.0119	0.0022	7.44E-08
rs7597462	2	169,226,358	A	T	0.7666	0.0064	0.0012	2.64E-07
rs16855816	2	169,624,261	A	G	0.8963	0.0099	0.0017	7.18E-09
rs3770611	2	170,143,494	A	C	0.3541	0.0051	0.0011	3.64E-06
rs12612683	2	170,220,594	T	C	0.7320	0.0055	0.0012	3.85E-06
rs12692948	2	171,185,221	A	C	0.6497	-0.0072	0.0011	4.21E-11
rs34127006	2	172,313,566	C	G	0.9387	0.0092	0.0022	2.72E-05
rs79131834	2	172,350,436	T	C	0.0519	-0.0068	0.0024	4.20E-03
rs62182444	2	172,812,544	A	C	0.2427	-0.0126	0.0012	5.24E-25
rs788171	2	172,921,832	T	C	0.3738	0.0093	0.0011	8.23E-18
rs2676507	2	173,729,572	A	G	0.3179	0.0083	0.0011	1.97E-13
rs3754740	2	174,062,595	A	G	0.6643	0.0095	0.0011	1.30E-17
rs10193498	2	174,094,345	A	T	0.7471	0.0113	0.0012	7.89E-21
rs7579774	2	174,162,500	A	G	0.2877	-0.0069	0.0012	2.10E-09
rs2919151	2	174,193,639	T	G	0.4865	0.0087	0.0010	1.14E-16
rs15122205	2	174,735,734	A	G	0.9662	-0.0151	0.0029	2.21E-07
rs11688834	2	174,933,420	T	C	0.2767	0.0061	0.0012	2.23E-07
rs72915557	2	175,199,092	A	G	0.0598	-0.0206	0.0022	1.16E-20
rs1840633	2	175,713,988	A	G	0.3754	0.0068	0.0011	3.15E-10
rs62183418	2	176,233,578	A	G	0.8881	0.0120	0.0017	5.80E-13
rs4972778	2	176,483,881	T	C	0.5709	-0.0061	0.0011	7.06E-09
rs17400325	2	178,565,913	T	C	0.9597	-0.0242	0.0027	1.04E-19
rs77056518	2	178,887,611	T	C	0.0985	-0.0085	0.0018	1.17E-06
rs2044480	2	179,939,493	A	G	0.0972	-0.0076	0.0018	1.98E-05
rs259808	2	180,791,419	T	G	0.1893	-0.0086	0.0013	1.02E-10
rs12693219	2	180,923,138	T	C	0.4214	0.0101	0.0011	1.50E-21
rs57282763	2	180,961,890	A	T	0.1211	0.0017	0.0016	2.87E-01
rs7588437	2	181,575,281	A	G	0.3601	0.0071	0.0011	8.75E-11
rs10189949	2	182,132,131	T	C	0.9220	0.0094	0.0020	1.43E-06
rs16867434	2	182,359,592	T	C	0.9090	-0.0074	0.0018	5.44E-05
rs72896637	2	183,543,531	T	G	0.0730	0.0167	0.0020	1.41E-16
rs1561369	2	183,702,964	A	G	0.1205	0.0088	0.0016	4.45E-08
rs2705746	2	183,892,106	T	C	0.0308	-0.0165	0.0030	5.05E-08
rs58400473	2	184,370,023	A	G	0.4829	-0.0044	0.0010	3.03E-05
rs10497636	2	184,609,810	A	T	0.1573	-0.0065	0.0014	6.75E-06
rs62177067	2	185,232,019	T	C	0.1567	-0.0085	0.0014	2.90E-09
rs1021043	2	185,507,421	A	G	0.6038	-0.0058	0.0011	5.43E-08
rs75142797	2	185,845,180	C	G	0.0825	0.0152	0.0019	1.46E-15

rs72898998	2	186,115,979	T	C	0.3958	0.0086	0.0011	8.13E-16
rs6749577	2	186,489,185	T	G	0.4212	-0.0086	0.0011	4.49E-16
rs62179650	2	189,135,884	A	G	0.2979	0.0087	0.0012	4.06E-14
rs2014259	2	191,251,090	T	G	0.3704	-0.0063	0.0011	5.87E-09
rs62181533	2	192,905,876	A	C	0.5083	0.0067	0.0010	1.89E-10
rs4850810	2	193,754,771	T	G	0.5292	-0.0131	0.0011	6.68E-36
rs2264021	2	194,283,676	A	G	0.6778	0.0104	0.0011	1.90E-20
rs73055568	2	194,641,042	T	G	0.0581	-0.0133	0.0023	4.93E-09
rs6434728	2	195,894,145	T	G	0.2077	0.0069	0.0013	1.07E-07
rs6756935	2	196,514,057	T	C	0.1370	-0.0087	0.0015	1.32E-08
rs2007031	2	198,181,443	A	G	0.6198	0.0057	0.0011	1.40E-07
rs115075036	2	198,391,102	A	G	0.0079	-0.0264	0.0061	1.61E-05
rs997467	2	199,182,704	T	C	0.4330	0.0104	0.0011	1.05E-22
rs1455350	2	199,497,115	A	T	0.4866	-0.0161	0.0010	2.76E-53
rs17266097	2	200,275,209	T	C	0.3984	0.0088	0.0011	2.00E-16
rs6711399	2	200,462,840	T	C	0.1810	-0.0129	0.0014	3.37E-21
rs1653301	2	201,076,401	A	G	0.3882	-0.0097	0.0011	1.61E-19
rs34189321	2	203,036,920	A	T	0.8736	0.0147	0.0016	7.84E-21
rs13010214	2	203,571,962	C	G	0.1059	-0.0078	0.0017	4.53E-06
rs140540544	2	205,686,348	A	G	0.9621	-0.0140	0.0027	3.41E-07
rs78016092	2	206,429,322	A	G	0.0647	-0.0073	0.0021	6.47E-04
rs111341724	2	207,258,925	T	C	0.1487	-0.0091	0.0015	7.57E-10
rs1263671	2	207,996,447	T	C	0.8335	-0.0087	0.0014	5.86E-10
rs10172483	2	208,300,941	A	T	0.7725	0.0061	0.0012	9.14E-07
rs13402422	2	208,827,123	T	C	0.3478	0.0065	0.0011	3.01E-09
rs56016194	2	210,900,649	C	G	0.4416	-0.0057	0.0011	7.87E-08
rs2371001	2	211,467,548	A	G	0.5108	-0.0093	0.0010	7.15E-19
rs3791702	2	212,280,780	T	C	0.6952	0.0084	0.0011	1.14E-13
rs55897719	2	212,590,841	A	C	0.3055	-0.0127	0.0011	2.04E-28
rs17344454	2	213,001,643	A	C	0.9368	0.0052	0.0022	1.49E-02
rs72944349	2	213,854,123	T	C	0.7246	0.0069	0.0012	4.44E-09
rs7597126	2	215,009,358	T	C	0.4971	-0.0083	0.0010	2.32E-15
rs139770913	2	215,232,913	T	G	0.0046	0.0277	0.0079	4.96E-04
rs11681287	2	215,295,184	A	G	0.1456	0.0126	0.0015	2.60E-17
rs6713695	2	215,393,529	A	G	0.4684	-0.0106	0.0010	5.18E-24
rs736143	2	217,698,787	A	G	0.2058	-0.0061	0.0013	2.15E-06
rs897877	2	219,192,755	A	G	0.4182	-0.0052	0.0011	1.14E-06
rs1043160	2	220,037,756	A	G	0.3860	-0.0043	0.0011	6.35E-05
rs11886864	2	220,156,531	A	G	0.8359	-0.0084	0.0014	2.74E-09
rs145979116	2	220,412,282	T	G	0.9788	-0.0322	0.0037	3.64E-18
rs6748457	2	220,793,239	T	G	0.3427	-0.0049	0.0011	9.20E-06
rs11690112	2	221,253,683	T	G	0.6506	0.0069	0.0011	4.24E-10
rs10153660	2	221,537,867	A	G	0.5124	-0.0050	0.0011	1.90E-06
rs1971218	2	221,835,288	A	G	0.5241	0.0085	0.0011	5.79E-16
rs4099413	2	222,716,083	A	C	0.7745	-0.0061	0.0013	9.37E-07
rs111915841	2	225,467,840	C	G	0.3327	0.0095	0.0011	8.22E-18
rs12995062	2	225,547,310	A	G	0.8938	0.0154	0.0017	1.78E-19
rs10208109	2	226,021,611	T	C	0.5681	0.0035	0.0011	8.89E-04

rs2163413	2	226,349,200	A	G	0.8185	-0.0130	0.0014	9.86E-22
rs12694681	2	226,609,241	T	G	0.6920	0.0089	0.0011	5.78E-15
rs7603395	2	228,994,703	A	G	0.6508	0.0121	0.0011	2.88E-28
rs62201212	2	229,173,304	T	C	0.1375	0.0119	0.0015	4.29E-15
rs116363365	2	229,317,253	A	T	0.1380	0.0038	0.0015	1.18E-02
rs13383306	2	230,179,536	A	C	0.0547	-0.0136	0.0023	3.52E-09
rs143970234	2	230,743,390	A	G	0.1237	0.0105	0.0016	4.88E-11
rs7571716	2	233,441,420	T	C	0.2836	0.0069	0.0012	2.46E-09
rs13007783	2	233,566,679	A	G	0.3492	-0.0145	0.0011	1.16E-39
rs6704768	2	233,592,501	A	G	0.5664	-0.0153	0.0011	9.67E-48
rs4663617	2	236,744,626	A	T	0.2399	0.0104	0.0012	3.17E-17
rs4663220	2	236,846,042	T	G	0.4966	0.0068	0.0010	1.06E-10
rs36116433	2	236,979,552	T	C	0.4525	-0.0070	0.0011	3.36E-11
rs6725848	2	237,079,100	C	G	0.1743	-0.0138	0.0014	2.08E-23
rs58964929	2	238,873,673	A	G	0.3839	0.0062	0.0011	7.62E-09
rs79747966	2	239,965,444	T	C	0.1521	-0.0088	0.0015	1.64E-09
rs72993796	2	240,321,051	T	C	0.8820	0.0149	0.0016	8.58E-20
rs2931203	2	240,324,316	A	T	0.7566	-0.0092	0.0012	5.38E-14
rs10182982	2	242,403,921	A	T	0.4438	-0.0058	0.0011	3.07E-08
rs7651086	3	145,558	C	G	0.4569	0.0065	0.0011	7.08E-10
rs5004846	3	2,568,479	A	G	0.8240	-0.0081	0.0014	3.32E-09
rs769789	3	3,753,470	T	C	0.8107	-0.0096	0.0013	7.87E-13
rs1846436	3	4,787,125	A	G	0.6946	0.0058	0.0011	3.71E-07
rs17234990	3	7,195,141	T	C	0.6802	-0.0084	0.0011	9.38E-14
rs329036	3	7,763,665	T	C	0.2319	-0.0061	0.0012	8.32E-07
rs62236816	3	8,252,091	A	G	0.6485	-0.0091	0.0011	9.71E-17
rs2664076	3	9,133,971	A	G	0.3830	-0.0066	0.0011	8.49E-10
rs34283953	3	9,907,511	T	C	0.0146	0.0176	0.0044	7.07E-05
rs164938	3	10,315,103	T	G	0.3936	-0.0081	0.0011	5.12E-14
rs9813525	3	13,119,540	T	C	0.3127	0.0081	0.0011	6.42E-13
rs62232802	3	13,338,289	A	C	0.1740	0.0099	0.0014	7.25E-13
rs35452994	3	14,510,442	A	G	0.1957	-0.0091	0.0013	9.16E-12
rs62241810	3	14,978,154	T	C	0.2574	0.0049	0.0012	3.89E-05
rs116374624	3	15,031,154	A	T	0.0248	-0.0178	0.0034	1.33E-07
rs7651039	3	15,648,004	T	C	0.4807	0.0046	0.0010	1.45E-05
rs748832	3	16,851,202	A	G	0.6314	0.0101	0.0011	1.61E-20
rs4685405	3	16,981,683	T	G	0.1850	-0.0114	0.0013	2.12E-17
rs114521504	3	17,408,018	A	G	0.9405	0.0091	0.0022	5.12E-05
rs34582652	3	18,124,170	A	T	0.9855	0.0322	0.0046	1.71E-12
rs7634036	3	18,508,640	C	G	0.2394	-0.0094	0.0012	2.31E-14
rs5021426	3	18,700,484	T	C	0.7246	-0.0112	0.0012	1.66E-21
rs586829	3	20,553,778	A	G	0.6292	0.0099	0.0011	5.49E-20
rs4858241	3	20,669,071	T	G	0.6323	-0.0072	0.0011	3.68E-11
rs6767338	3	21,084,864	T	C	0.5901	-0.0073	0.0011	6.35E-12
rs72625841	3	21,430,442	T	G	0.7383	0.0086	0.0012	3.78E-13
rs11706806	3	21,732,444	A	G	0.2832	-0.0065	0.0012	1.93E-08
rs115364451	3	21,854,933	T	C	0.2050	0.0085	0.0013	5.74E-11
rs73050248	3	23,208,215	T	C	0.8175	-0.0128	0.0014	4.40E-21

rs826374	3	24,163,921	A	C	0.7718	-0.0089	0.0012	8.82E-13
rs2683530	3	24,211,739	T	C	0.5356	0.0069	0.0010	5.96E-11
rs73036489	3	24,568,718	T	C	0.9264	-0.0119	0.0020	2.81E-09
rs13085461	3	24,950,387	C	G	0.4744	0.0078	0.0010	1.13E-13
rs6773363	3	27,793,632	T	C	0.5422	0.0065	0.0011	6.59E-10
rs73055556	3	28,027,538	A	G	0.1377	0.0111	0.0015	2.51E-13
rs11921695	3	28,716,202	T	C	0.0905	-0.0112	0.0018	8.48E-10
rs10865834	3	31,599,298	A	G	0.2525	-0.0105	0.0012	3.58E-18
rs4678463	3	34,270,633	T	G	0.2518	-0.0095	0.0012	3.22E-15
rs7614270	3	35,025,388	A	C	0.1481	-0.0102	0.0015	5.65E-12
rs9818103	3	35,671,945	A	G	0.7522	0.0061	0.0012	4.45E-07
rs113054910	3	36,531,717	T	C	0.9895	0.0238	0.0052	4.73E-06
rs9985296	3	36,889,621	T	C	0.3825	-0.0103	0.0011	9.86E-22
rs7621270	3	38,709,928	A	G	0.7971	0.0070	0.0013	7.17E-08
rs9853735	3	42,245,515	T	C	0.3222	-0.0044	0.0011	9.75E-05
rs115824515	3	44,413,626	T	C	0.0228	-0.0162	0.0035	4.72E-06
rs75782645	3	44,940,602	A	G	0.8756	-0.0107	0.0016	1.82E-11
rs11130144	3	47,667,934	T	C	0.3363	-0.0123	0.0011	1.32E-28
rs73078367	3	48,708,347	T	C	0.1182	0.0306	0.0016	1.30E-78
rs34890793	3	49,619,493	T	C	0.8377	0.0261	0.0014	2.78E-75
rs9837520	3	49,722,356	A	G	0.2821	0.0295	0.0012	2.89E-140
rs79581555	3	49,738,816	A	G	0.0508	-0.0342	0.0024	1.97E-45
rs7627910	3	49,971,831	T	C	0.5482	0.0262	0.0011	3.69E-137
rs56122560	3	50,316,007	T	G	0.8937	-0.0162	0.0019	6.19E-18
rs2710332	3	52,978,691	A	G	0.7212	0.0066	0.0012	1.65E-08
rs62252819	3	53,440,128	A	T	0.7517	-0.0070	0.0012	8.47E-09
rs2633723	3	53,754,418	T	C	0.6118	0.0087	0.0011	4.36E-16
rs78080987	3	54,228,328	A	C	0.0011	-0.0680	0.0183	1.93E-04
rs6445633	3	54,230,638	A	C	0.3113	0.0096	0.0011	1.40E-17
rs1473346	3	54,410,633	T	G	0.7877	-0.0071	0.0013	2.33E-08
rs1851043	3	54,633,739	A	G	0.6107	0.0040	0.0011	1.70E-04
rs2172122	3	56,576,175	C	G	0.3610	-0.0092	0.0011	2.21E-17
rs17235841	3	57,186,580	A	C	0.7869	0.0062	0.0013	1.42E-06
rs6808671	3	58,231,112	T	C	0.3680	-0.0089	0.0011	1.74E-16
rs59760856	3	58,283,496	A	C	0.6047	-0.0003	0.0011	8.02E-01
rs9822855	3	58,327,540	T	C	0.3007	0.0020	0.0011	8.06E-02
rs13071861	3	58,371,332	C	G	0.8519	0.0111	0.0015	6.09E-14
rs11130785	3	60,807,883	T	G	0.6233	0.0059	0.0011	5.73E-08
rs2736752	3	60,817,322	T	G	0.7840	0.0090	0.0013	1.27E-12
rs35580497	3	62,331,761	A	G	0.1452	-0.0081	0.0015	6.58E-08
rs9848406	3	62,457,846	C	G	0.0505	-0.0122	0.0024	3.93E-07
rs6774533	3	62,471,086	T	C	0.6964	0.0084	0.0011	1.37E-13
rs1512021	3	62,544,818	A	C	0.8697	-0.0065	0.0016	3.05E-05
rs2087704	3	63,820,493	T	G	0.2064	0.0056	0.0013	1.97E-05
rs853286	3	64,285,502	T	G	0.8908	0.0119	0.0017	1.35E-12
rs59110590	3	64,434,481	A	G	0.5644	-0.0095	0.0011	2.14E-19
rs3923375	3	65,412,603	T	C	0.1314	-0.0083	0.0016	1.23E-07
rs6765502	3	65,662,123	T	C	0.1816	-0.0100	0.0014	1.99E-13

rs77554090	3	65,711,935	T	C	0.0733	-0.0175	0.0020	2.84E-18
rs1444048	3	66,919,377	T	C	0.4402	-0.0059	0.0011	1.85E-08
rs7628995	3	68,323,423	A	G	0.6560	0.0087	0.0011	3.31E-15
rs9841097	3	68,809,059	A	T	0.4154	0.0082	0.0011	1.33E-14
rs73117392	3	70,002,020	T	C	0.9437	-0.0231	0.0023	3.56E-24
rs902712	3	70,033,238	A	G	0.7314	0.0108	0.0012	5.55E-20
rs1522341	3	70,348,079	T	C	0.2682	-0.0056	0.0012	2.61E-06
rs12494424	3	70,520,917	C	G	0.0403	-0.0223	0.0027	9.31E-17
rs56090516	3	70,543,128	T	C	0.6681	-0.0102	0.0011	4.45E-20
rs3846031	3	71,014,581	T	G	0.6777	-0.0091	0.0011	4.51E-16
rs35540156	3	71,522,178	A	G	0.5223	-0.0164	0.0010	6.10E-55
rs6798993	3	72,161,623	T	G	0.5234	0.0046	0.0010	1.18E-05
rs11709621	3	72,344,601	T	C	0.2031	-0.0096	0.0013	1.83E-13
rs35938805	3	73,044,493	T	C	0.6181	-0.0081	0.0011	1.48E-12
rs35319165	3	74,251,969	A	C	0.8592	0.0069	0.0015	4.04E-06
rs11918452	3	74,882,285	A	G	0.8243	-0.0103	0.0014	8.59E-14
rs9859719	3	75,039,122	A	G	0.2223	-0.0113	0.0013	3.67E-19
rs2324471	3	76,115,894	T	G	0.4050	-0.0052	0.0011	1.34E-06
rs34587302	3	76,301,993	A	G	0.4555	0.0057	0.0011	7.33E-08
rs267152	3	76,857,965	A	C	0.8618	-0.0089	0.0015	4.79E-09
rs5009152	3	77,000,266	A	G	0.4143	-0.0060	0.0011	1.79E-08
rs13073489	3	77,257,303	A	G	0.7401	-0.0095	0.0012	2.27E-15
rs9836455	3	77,713,882	C	G	0.6349	-0.0062	0.0011	1.14E-08
rs17835368	3	78,444,548	A	C	0.3344	0.0097	0.0011	2.75E-18
rs7644615	3	79,580,821	A	C	0.3976	-0.0080	0.0011	8.74E-14
rs73126025	3	81,260,636	A	G	0.1316	-0.0081	0.0015	1.87E-07
rs11711322	3	82,554,634	T	C	0.5957	-0.0108	0.0011	2.59E-24
rs13097360	3	82,616,037	T	G	0.2760	-0.0100	0.0012	1.19E-17
rs9871316	3	83,152,948	A	G	0.4577	0.0066	0.0011	2.75E-10
rs57319644	3	84,664,410	A	G	0.4181	0.0094	0.0011	5.59E-19
rs67379620	3	85,393,911	T	C	0.1400	0.0033	0.0015	3.03E-02
rs74664784	3	85,475,292	T	C	0.4365	-0.0084	0.0012	5.09E-12
rs66568921	3	85,672,018	T	G	0.6470	-0.0156	0.0011	2.59E-45
rs9847867	3	86,269,515	A	G	0.1062	-0.0138	0.0017	4.44E-16
rs1492014	3	94,071,481	T	C	0.5767	0.0073	0.0011	6.19E-12
rs4857303	3	97,676,153	C	G	0.5040	0.0052	0.0011	7.05E-07
rs1144127	3	100,482,076	A	G	0.4486	-0.0087	0.0011	1.01E-16
rs72960180	3	103,396,334	A	G	0.2376	-0.0129	0.0012	1.20E-25
rs2961221	3	104,231,441	A	G	0.4059	0.0063	0.0011	4.36E-09
rs9862599	3	104,864,331	T	G	0.8844	0.0064	0.0016	1.01E-04
rs7431531	3	105,198,374	T	C	0.6791	-0.0105	0.0011	9.10E-21
rs9809578	3	106,091,984	A	G	0.4423	0.0077	0.0011	3.62E-13
rs62261974	3	107,296,969	A	G	0.8218	0.0095	0.0014	3.34E-12
rs115876159	3	107,307,336	C	G	0.0087	-0.0209	0.0057	2.50E-04
rs765091	3	107,785,611	C	G	0.4838	-0.0081	0.0010	8.33E-15
rs75965832	3	107,987,349	T	C	0.0621	-0.0101	0.0022	3.41E-06
rs7632819	3	108,071,811	A	G	0.7550	-0.0130	0.0012	1.13E-26
rs2669890	3	114,333,798	A	T	0.2176	0.0093	0.0013	1.70E-13

rs143396396	3	115,003,471	A	G	0.0139	-0.0100	0.0045	2.62E-02
rs138657373	3	115,126,260	T	C	0.0055	-0.0265	0.0072	2.44E-04
rs112842843	3	115,332,805	T	C	0.2196	0.0065	0.0013	4.29E-07
rs11719629	3	115,951,432	T	C	0.1751	0.0037	0.0014	6.53E-03
rs7430651	3	116,582,186	T	C	0.2866	-0.0113	0.0012	2.22E-22
rs4855928	3	116,898,327	T	G	0.5176	0.0064	0.0011	1.28E-09
rs13077567	3	117,174,468	A	G	0.6801	0.0076	0.0011	1.08E-11
rs1910038	3	117,307,834	A	C	0.4281	-0.0065	0.0011	9.45E-10
rs6783146	3	117,628,528	T	G	0.2994	0.0051	0.0011	6.64E-06
rs13091704	3	118,419,383	A	C	0.2491	-0.0114	0.0012	6.57E-21
rs71329247	3	121,681,523	T	C	0.2621	0.0058	0.0012	9.32E-07
rs6438720	3	122,017,232	A	C	0.3848	-0.0023	0.0011	3.04E-02
rs4634051	3	122,180,728	A	G	0.3041	0.0070	0.0011	6.55E-10
rs9823891	3	123,734,690	A	G	0.2836	-0.0115	0.0012	3.76E-23
rs2333218	3	125,127,132	T	C	0.5362	-0.0048	0.0011	4.14E-06
rs61664009	3	126,901,070	A	G	0.7742	0.0095	0.0013	2.65E-14
rs6785699	3	127,062,401	A	G	0.2003	0.0105	0.0013	9.16E-16
rs62262312	3	127,145,909	C	G	0.1620	0.0189	0.0014	2.36E-40
rs62265565	3	129,441,539	T	G	0.9361	-0.0135	0.0021	2.51E-10
rs3773814	3	130,715,748	A	C	0.8413	0.0070	0.0014	1.40E-06
rs16837395	3	131,378,324	C	G	0.4256	-0.0082	0.0011	1.24E-14
rs7617481	3	131,706,617	C	G	0.5412	-0.0083	0.0011	2.22E-15
rs905993	3	131,966,747	C	G	0.3892	-0.0096	0.0011	3.21E-19
rs9883745	3	132,232,323	A	G	0.3362	-0.0059	0.0011	8.39E-08
rs998591	3	135,103,031	T	C	0.2773	-0.0062	0.0012	1.24E-07
rs6772753	3	137,318,965	A	G	0.5431	0.0074	0.0011	1.86E-12
rs1947555	3	137,413,903	T	C	0.0837	-0.0114	0.0019	1.58E-09
rs2071387	3	139,257,603	A	G	0.8179	0.0090	0.0014	2.94E-11
rs6807857	3	139,557,781	A	G	0.4471	0.0029	0.0011	6.52E-03
rs7641534	3	139,700,752	T	C	0.4567	-0.0079	0.0011	4.60E-14
rs7650602	3	141,147,414	T	C	0.5651	-0.0100	0.0011	3.19E-21
rs2862130	3	141,645,533	A	G	0.4760	-0.0072	0.0010	7.83E-12
rs2119380	3	143,237,653	T	G	0.5179	0.0039	0.0010	1.75E-04
rs6788064	3	143,476,411	A	G	0.4898	-0.0070	0.0010	2.69E-11
rs34743418	3	143,657,807	T	C	0.4367	-0.0100	0.0011	5.01E-21
rs34620457	3	145,133,629	A	G	0.2479	0.0071	0.0012	5.39E-09
rs73153727	3	147,652,324	T	C	0.0184	-0.0239	0.0039	1.32E-09
rs12054166	3	150,093,445	C	G	0.7352	0.0073	0.0012	7.32E-10
rs66523149	3	152,909,603	T	C	0.6817	-0.0068	0.0011	1.40E-09
rs80104521	3	153,916,205	A	C	0.7876	-0.0087	0.0013	1.34E-11
rs10936002	3	155,129,439	T	C	0.3637	0.0069	0.0011	1.79E-10
rs6805849	3	155,345,186	A	G	0.1822	-0.0024	0.0014	8.17E-02
rs2639655	3	158,385,966	C	G	0.8065	0.0092	0.0013	3.54E-12
rs1109156	3	159,572,120	T	C	0.2080	0.0082	0.0013	1.81E-10
rs60028768	3	160,318,999	A	G	0.3451	0.0060	0.0011	4.44E-08
rs981949	3	161,196,597	A	C	0.6750	0.0093	0.0011	6.82E-17
rs9881048	3	165,506,252	A	C	0.1940	-0.0118	0.0013	3.72E-19
rs9863879	3	166,117,342	T	C	0.1525	0.0080	0.0015	3.49E-08

rs77566578	3	167,118,004	T	C	0.8737	0.0086	0.0016	5.00E-08
rs1426805	3	168,167,872	A	G	0.1487	0.0097	0.0015	4.36E-11
rs7643249	3	169,813,340	T	C	0.4272	0.0063	0.0011	2.49E-09
rs5396	3	170,744,815	T	C	0.7158	0.0073	0.0012	3.87E-10
rs6779981	3	171,054,056	T	C	0.5966	0.0068	0.0011	2.39E-10
rs1523341	3	173,228,908	T	G	0.4713	0.0055	0.0010	1.80E-07
rs4894651	3	173,912,821	T	C	0.4397	0.0091	0.0011	4.09E-18
rs6782698	3	175,673,379	A	G	0.7537	0.0138	0.0012	4.81E-30
rs9857331	3	177,191,935	A	G	0.7294	-0.0081	0.0012	5.37E-12
rs35792166	3	178,271,216	T	C	0.3678	0.0068	0.0011	2.80E-10
rs66667727	3	178,797,216	C	G	0.3593	0.0070	0.0011	1.71E-10
rs7431270	3	180,046,708	A	G	0.2925	-0.0058	0.0012	4.69E-07
rs2567660	3	180,912,675	C	G	0.1512	-0.0150	0.0015	1.22E-24
rs4855037	3	181,466,810	T	G	0.4250	-0.0061	0.0011	8.48E-09
rs9818890	3	182,523,868	A	G	0.3313	0.0088	0.0011	3.07E-15
rs28603130	3	183,950,306	C	G	0.7492	0.0086	0.0012	9.87E-13
rs2293605	3	184,044,433	T	C	0.1214	-0.0086	0.0016	7.75E-08
rs35375378	3	184,500,518	A	C	0.4915	0.0055	0.0010	1.18E-07
rs872602	3	185,826,028	A	G	0.2405	-0.0126	0.0012	1.11E-24
rs12330875	3	186,285,986	T	C	0.1704	0.0062	0.0014	7.52E-06
rs4358291	3	187,501,864	A	T	0.8840	0.0112	0.0016	7.27E-12
rs59903652	3	188,314,676	T	G	0.3628	-0.0054	0.0011	8.91E-07
rs12107377	3	192,150,817	A	G	0.5155	0.0064	0.0010	1.12E-09
rs4106105	3	192,309,011	A	G	0.2518	-0.0063	0.0012	2.01E-07
rs11925699	3	193,321,115	A	G	0.4667	-0.0077	0.0010	2.73E-13
rs687610	3	193,515,781	C	G	0.5764	0.0042	0.0011	8.89E-05
rs73210523	3	196,876,600	A	G	0.1741	0.0118	0.0014	9.72E-18
rs12646225	4	696,848	T	C	0.1099	0.0118	0.0017	3.69E-12
rs62294060	4	744,190	A	G	0.0854	-0.0110	0.0019	3.92E-09
rs3135878	4	1,804,377	A	G	0.7858	-0.0068	0.0013	1.81E-07
rs4302516	4	2,557,363	C	G	0.3918	-0.0078	0.0011	6.63E-13
rs13140733	4	2,920,937	A	G	0.2500	-0.0136	0.0012	4.70E-29
rs34155847	4	3,252,130	A	G	0.2401	0.0158	0.0012	8.40E-38
rs76034781	4	3,272,782	A	G	0.0766	-0.0218	0.0020	2.20E-28
rs1055711	4	3,433,782	A	T	0.2560	-0.0063	0.0012	1.45E-07
rs4689684	4	4,485,880	T	C	0.7656	0.0080	0.0012	7.64E-11
rs4689949	4	4,842,568	A	G	0.5442	0.0046	0.0011	9.74E-06
rs73208982	4	5,213,120	C	G	0.6626	-0.0139	0.0011	4.75E-36
rs195125	4	5,431,324	A	G	0.5329	-0.0052	0.0010	8.92E-07
rs62286094	4	6,502,170	T	C	0.1586	0.0082	0.0014	1.19E-08
rs3756255	4	7,032,924	A	T	0.7125	0.0057	0.0012	8.57E-07
rs73208473	4	7,324,596	A	C	0.2795	-0.0067	0.0012	8.75E-09
rs10937825	4	7,489,746	A	G	0.4439	0.0053	0.0011	4.93E-07
rs28494514	4	7,889,715	A	G	0.4388	0.0062	0.0011	3.70E-09
rs11731597	4	10,075,485	T	C	0.2947	0.0084	0.0011	1.85E-13
rs6846243	4	11,053,537	A	G	0.6941	-0.0054	0.0011	1.82E-06
rs79397771	4	11,338,903	T	C	0.8081	0.0075	0.0013	2.06E-08
rs1454881	4	12,308,811	T	C	0.4033	0.0066	0.0011	6.66E-10

rs1491254	4	13,726,403	T	C	0.3310	-0.0043	0.0011	1.15E-04
rs2604541	4	15,082,038	T	C	0.5625	0.0055	0.0011	1.83E-07
rs61240629	4	15,401,534	A	C	0.3233	0.0077	0.0011	5.28E-12
rs2314645	4	15,538,922	T	G	0.5593	-0.0087	0.0011	1.13E-16
rs2313547	4	16,427,592	T	C	0.5026	0.0063	0.0010	1.72E-09
rs1581168	4	17,053,079	T	C	0.2879	-0.0101	0.0012	2.22E-18
rs2872794	4	17,330,007	A	T	0.4776	0.0053	0.0010	4.23E-07
rs73242122	4	17,871,012	C	G	0.7774	-0.0068	0.0013	7.28E-08
rs13131350	4	17,877,487	A	G	0.8615	0.0140	0.0015	2.03E-20
rs2610990	4	18,008,232	A	G	0.2583	0.0116	0.0012	3.46E-22
rs35177116	4	19,339,780	T	C	0.2753	-0.0082	0.0012	3.42E-12
rs9994056	4	21,088,839	A	G	0.5858	0.0062	0.0011	5.46E-09
rs28448822	4	21,787,065	A	C	0.8692	0.0098	0.0016	2.24E-10
rs4467547	4	21,945,933	T	G	0.4053	0.0132	0.0011	3.44E-35
rs967140	4	23,757,308	A	C	0.8290	-0.0118	0.0014	3.06E-17
rs113938700	4	24,274,403	T	C	0.0427	-0.0139	0.0026	8.33E-08
rs6833208	4	24,346,318	T	C	0.5860	-0.0032	0.0011	2.56E-03
rs931848	4	24,483,033	A	T	0.5579	-0.0077	0.0011	2.47E-13
rs7665498	4	25,001,578	T	C	0.4199	-0.0063	0.0011	2.30E-09
rs9291467	4	25,428,296	T	C	0.4587	-0.0077	0.0011	3.01E-13
rs62409395	4	25,605,036	T	C	0.7618	0.0106	0.0013	7.21E-17
rs28496468	4	25,890,349	A	T	0.2089	-0.0071	0.0013	3.16E-08
rs11732420	4	26,439,995	T	C	0.0379	0.0128	0.0028	3.67E-06
rs10939186	4	27,987,100	T	C	0.3531	-0.0093	0.0011	1.76E-17
rs1493159	4	28,719,509	T	C	0.8453	0.0150	0.0014	2.83E-25
rs6448619	4	28,972,033	T	C	0.3325	-0.0067	0.0011	1.95E-09
rs11733439	4	30,534,692	A	G	0.7881	-0.0126	0.0013	1.04E-22
rs9996030	4	30,919,362	T	C	0.6646	0.0109	0.0011	8.38E-23
rs10015750	4	31,360,079	A	C	0.2671	0.0066	0.0012	2.78E-08
rs7680258	4	31,890,470	T	C	0.4237	0.0072	0.0011	8.92E-12
rs4621481	4	32,160,307	T	G	0.7149	0.0081	0.0012	2.33E-12
rs6839051	4	35,026,277	A	C	0.3828	-0.0069	0.0011	1.44E-10
rs1113371	4	35,462,039	A	C	0.5089	0.0113	0.0010	5.12E-27
rs55900829	4	35,514,712	A	T	0.5097	0.0127	0.0012	1.15E-25
rs187499510	4	35,892,871	C	G	0.9921	0.0296	0.0061	1.41E-06
rs1613447	4	37,196,241	A	T	0.4238	0.0076	0.0011	7.66E-13
rs78462816	4	38,300,662	A	G	0.8806	-0.0104	0.0016	1.42E-10
rs73230709	4	38,514,577	C	G	0.8187	0.0069	0.0014	3.70E-07
rs170035	4	39,793,856	A	G	0.6208	0.0085	0.0011	4.01E-15
rs10517554	4	41,071,428	T	C	0.3711	-0.0069	0.0011	1.93E-10
rs34937911	4	42,110,353	T	C	0.8840	0.0087	0.0016	1.21E-07
rs2290869	4	42,576,522	T	C	0.3816	0.0058	0.0011	7.42E-08
rs55637944	4	44,624,808	C	G	0.8654	-0.0084	0.0015	3.64E-08
rs13130765	4	45,163,333	C	G	0.4734	-0.0072	0.0011	7.21E-12
rs6820046	4	45,971,193	T	C	0.5678	-0.0092	0.0011	2.60E-18
rs1877397	4	46,937,620	A	G	0.8663	-0.0065	0.0015	2.11E-05
rs2055940	4	46,997,913	A	G	0.3231	0.0070	0.0011	3.32E-10
rs115652757	4	48,337,510	T	C	0.9776	-0.0150	0.0035	2.28E-05

rs2291591	4	55,147,769	T	C	0.0915	0.0067	0.0018	2.43E-04
rs4864881	4	55,200,455	T	C	0.6067	-0.0070	0.0011	7.74E-11
rs62305701	4	60,266,134	A	G	0.6625	0.0056	0.0011	5.10E-07
rs6551620	4	62,161,216	A	T	0.4421	-0.0064	0.0011	1.17E-09
rs4860418	4	62,421,204	T	C	0.4884	-0.0064	0.0010	1.11E-09
rs1594372	4	65,616,608	A	G	0.5307	0.0081	0.0010	8.70E-15
rs1440936	4	65,895,830	A	G	0.5955	-0.0053	0.0011	5.23E-07
rs75447928	4	66,526,092	C	G	0.3148	-0.0095	0.0011	3.03E-17
rs13132143	4	66,808,978	A	G	0.5224	-0.0056	0.0010	9.22E-08
rs2350804	4	67,075,938	T	C	0.7068	0.0094	0.0011	4.10E-16
rs12506222	4	67,899,250	T	C	0.4417	-0.0142	0.0011	1.50E-41
rs2194888	4	68,013,282	T	C	0.2359	-0.0121	0.0012	1.31E-22
rs28448514	4	72,356,070	A	G	0.8501	-0.0087	0.0015	2.79E-09
rs12510869	4	77,024,534	A	G	0.8771	0.0093	0.0016	6.44E-09
rs4343750	4	78,058,704	T	C	0.0779	-0.0071	0.0020	2.63E-04
rs6533225	4	78,642,389	C	G	0.5377	0.0075	0.0011	7.90E-13
rs115024192	4	79,714,654	A	T	0.0347	0.0170	0.0030	1.00E-08
rs1542636	4	80,204,953	A	T	0.4583	0.0069	0.0011	5.20E-11
rs66968950	4	80,909,460	A	C	0.6366	0.0086	0.0011	3.56E-15
rs1458042	4	81,112,887	T	C	0.3365	0.0050	0.0011	7.14E-06
rs10016570	4	82,312,766	A	C	0.6597	0.0119	0.0011	4.93E-27
rs62319698	4	83,119,706	T	C	0.8750	-0.0056	0.0016	4.94E-04
rs36048136	4	83,288,006	A	G	0.2269	0.0118	0.0013	4.70E-21
rs11722905	4	87,791,982	T	C	0.0994	-0.0066	0.0018	1.79E-04
rs356182	4	90,626,111	A	G	0.6561	-0.0044	0.0011	6.16E-05
rs17202137	4	90,941,366	T	C	0.6093	-0.0064	0.0011	2.77E-09
rs13125074	4	91,808,902	A	G	0.2328	0.0089	0.0012	6.98E-13
rs114041190	4	93,816,239	A	G	0.0198	0.0182	0.0038	1.53E-06
rs1972863	4	94,579,511	A	G	0.3049	-0.0095	0.0011	8.81E-17
rs3796432	4	96,030,402	T	G	0.3714	0.0068	0.0011	2.67E-10
rs7669620	4	96,704,454	A	G	0.4252	0.0054	0.0011	3.55E-07
rs9992967	4	96,979,429	T	G	0.7860	0.0082	0.0013	1.29E-10
rs116338908	4	97,653,763	A	G	0.0307	-0.0145	0.0030	2.06E-06
rs6822114	4	101,454,533	T	C	0.4965	-0.0063	0.0010	2.12E-09
rs13135092	4	103,198,082	A	G	0.9129	0.0299	0.0019	4.44E-58
rs4698891	4	104,197,942	C	G	0.2461	0.0065	0.0012	1.29E-07
rs11732860	4	105,378,552	T	C	0.2208	0.0062	0.0013	8.37E-07
rs115794885	4	106,094,414	T	C	0.0533	0.0235	0.0023	5.60E-24
rs7670522	4	106,160,365	A	C	0.4727	0.0127	0.0012	6.07E-27
rs145324997	4	108,837,903	T	C	0.9860	-0.0204	0.0046	8.55E-06
rs10024722	4	110,524,470	T	C	0.2548	-0.0043	0.0012	2.95E-04
rs72678864	4	112,422,145	A	G	0.1606	0.0092	0.0014	9.65E-11
rs4833399	4	113,148,899	T	G	0.1522	-0.0093	0.0015	1.87E-10
rs7437726	4	114,980,228	T	G	0.1273	0.0104	0.0016	4.18E-11
rs67432955	4	116,410,662	A	G	0.3946	0.0051	0.0011	1.58E-06
rs7683392	4	118,280,149	A	G	0.3146	-0.0061	0.0011	4.94E-08
rs13143759	4	120,908,703	A	G	0.3523	-0.0046	0.0011	2.83E-05
rs6534322	4	122,695,318	A	C	0.0644	-0.0104	0.0021	1.17E-06

rs6534338	4	123,026,869	T	C	0.3014	0.0105	0.0011	4.14E-20
rs75925700	4	123,401,769	A	G	0.6667	-0.0082	0.0013	1.54E-10
rs6534591	4	127,825,185	A	G	0.3614	-0.0061	0.0011	2.26E-08
rs78540972	4	129,854,259	A	C	0.9172	0.0150	0.0019	3.03E-15
rs71613929	4	130,292,532	A	C	0.0483	-0.0137	0.0024	2.11E-08
rs7694304	4	130,653,388	C	G	0.7365	0.0080	0.0012	1.33E-11
rs9998726	4	131,315,417	T	C	0.4311	-0.0063	0.0011	3.40E-09
rs349841	4	132,787,818	T	C	0.6736	0.0050	0.0011	8.23E-06
rs6814396	4	135,455,162	A	C	0.1972	-0.0098	0.0013	1.23E-13
rs72954160	4	136,107,038	A	T	0.9529	-0.0114	0.0025	4.58E-06
rs10014934	4	137,526,995	T	C	0.6251	0.0091	0.0011	3.09E-17
rs28818309	4	138,025,243	T	C	0.7330	0.0053	0.0012	8.54E-06
rs978890	4	138,743,944	A	G	0.8883	0.0061	0.0017	2.18E-04
rs13141028	4	139,717,664	C	G	0.4449	0.0072	0.0011	8.14E-12
rs6536382	4	140,621,478	T	G	0.4989	-0.0051	0.0010	9.80E-07
rs79170878	4	140,655,031	A	G	0.0306	-0.0070	0.0030	2.21E-02
rs11100308	4	140,769,923	T	G	0.6750	-0.0109	0.0011	1.20E-22
rs35319653	4	140,903,155	T	C	0.3396	0.0147	0.0011	2.16E-40
rs35964658	4	142,679,588	A	G	0.9307	-0.0117	0.0021	1.38E-08
rs4690704	4	143,811,374	T	C	0.2291	0.0070	0.0012	2.14E-08
rs4835355	4	147,837,787	T	G	0.6182	-0.0105	0.0011	2.65E-22
rs1437261	4	147,896,553	A	G	0.4871	-0.0033	0.0011	3.59E-03
rs9993133	4	149,016,541	T	C	0.8258	0.0076	0.0014	3.50E-08
rs1490466	4	149,404,608	A	C	0.3330	-0.0052	0.0011	2.76E-06
rs535013	4	149,715,792	A	C	0.8212	-0.0048	0.0014	4.57E-04
rs983473	4	157,695,392	T	C	0.2307	0.0080	0.0012	1.09E-10
rs56218836	4	158,378,542	T	C	0.8171	-0.0076	0.0014	1.75E-08
rs14633490	4	158,544,414	A	G	0.1525	0.0056	0.0015	1.14E-04
rs56188374	4	158,860,186	A	G	0.0827	-0.0141	0.0019	2.72E-13
rs11737459	4	159,858,736	A	T	0.6958	0.0107	0.0011	3.94E-21
rs77180386	4	159,886,831	A	G	0.7156	0.0085	0.0013	1.94E-10
rs1893953	4	160,474,408	T	G	0.5260	0.0094	0.0010	4.51E-19
rs4691601	4	160,599,341	A	T	0.4618	-0.0110	0.0010	1.40E-25
rs3210497	4	162,306,529	A	T	0.8998	-0.0092	0.0017	1.34E-07
rs78743226	4	162,432,522	A	G	0.8975	0.0090	0.0017	1.87E-07
rs1841023	4	163,735,584	A	C	0.6892	-0.0091	0.0011	7.96E-16
rs7657483	4	164,232,102	T	C	0.7282	0.0111	0.0012	5.70E-21
rs13137621	4	164,497,675	A	G	0.4270	0.0049	0.0011	3.42E-06
rs12507497	4	164,895,662	A	G	0.6417	-0.0086	0.0011	2.60E-15
rs76857842	4	165,220,160	T	C	0.0108	-0.0244	0.0051	2.03E-06
rs71618440	4	166,067,021	A	G	0.1344	0.0100	0.0015	7.37E-11
rs4627808	4	167,088,210	T	C	0.4695	-0.0051	0.0011	9.67E-07
rs1346377	4	167,896,080	A	G	0.0742	-0.0117	0.0020	4.97E-09
rs4449378	4	170,283,961	T	C	0.6128	-0.0081	0.0011	5.75E-14
rs6821231	4	170,959,988	T	C	0.2557	-0.0119	0.0012	5.37E-23
rs10026104	4	171,835,472	A	G	0.5889	-0.0061	0.0011	8.33E-09
rs7668960	4	172,448,875	T	C	0.1548	0.0159	0.0014	5.42E-28
rs4602464	4	172,775,756	A	C	0.3359	0.0058	0.0011	1.88E-07

rs4479668	4	173,077,497	T	G	0.4211	0.0080	0.0011	6.31E-14
rs28890012	4	173,914,031	A	G	0.8207	0.0048	0.0014	3.92E-04
rs7660231	4	174,017,709	A	T	0.7062	0.0083	0.0011	4.73E-13
rs63303162	4	176,641,242	A	G	0.5593	0.0112	0.0011	1.89E-26
rs6812406	4	176,730,310	A	T	0.5322	0.0088	0.0010	6.34E-17
rs7677621	4	176,919,065	T	C	0.3531	-0.0103	0.0011	5.54E-21
rs4535283	4	177,237,325	A	G	0.4984	-0.0056	0.0010	1.08E-07
rs11937610	4	178,538,461	A	G	0.6519	0.0062	0.0011	1.46E-08
rs11733298	4	178,728,644	A	G	0.4092	-0.0056	0.0011	1.20E-07
rs3106836	4	179,070,445	A	G	0.3861	-0.0062	0.0011	6.94E-09
rs2611040	4	180,446,850	T	C	0.3480	0.0057	0.0011	2.45E-07
rs1344096	4	181,292,516	A	C	0.3539	-0.0083	0.0011	4.72E-14
rs6826215	4	181,965,015	A	G	0.7021	-0.0050	0.0012	1.30E-05
rs10434295	4	182,298,894	A	G	0.3834	0.0066	0.0011	8.60E-10
rs1128956	4	183,724,005	T	G	0.8262	-0.0102	0.0014	1.51E-13
rs12644463	4	184,792,373	T	C	0.5887	-0.0084	0.0011	3.10E-15
rs11724690	4	186,764,747	T	G	0.2939	0.0095	0.0011	1.45E-16
rs72717425	5	438,809	T	C	0.4079	0.0048	0.0011	7.72E-06
rs17627501	5	2,912,375	T	C	0.4335	-0.0057	0.0011	7.29E-08
rs251828	5	3,185,711	T	G	0.5982	0.0059	0.0011	4.04E-08
rs12516485	5	3,269,403	A	G	0.1251	0.0125	0.0016	3.42E-15
rs56095367	5	3,429,914	T	C	0.6797	-0.0113	0.0011	1.08E-23
rs17635181	5	3,508,541	A	C	0.7217	-0.0029	0.0012	1.43E-02
rs521660	5	4,035,932	T	C	0.4940	0.0069	0.0010	4.28E-11
rs12518468	5	7,249,696	T	C	0.6672	0.0084	0.0011	2.90E-14
rs17207277	5	7,368,134	A	T	0.8120	-0.0097	0.0013	5.56E-13
rs57058832	5	10,105,560	T	C	0.8635	0.0074	0.0015	1.20E-06
rs2962323	5	10,546,175	A	C	0.4273	-0.0045	0.0011	2.98E-05
rs32043	5	11,395,054	C	G	0.4453	-0.0050	0.0011	1.76E-06
rs26143	5	11,475,053	T	C	0.4658	-0.0066	0.0010	2.39E-10
rs7731344	5	11,584,449	T	C	0.2282	-0.0043	0.0012	6.19E-04
rs59962327	5	12,599,693	T	C	0.1153	-0.0089	0.0016	6.94E-08
rs4702958	5	13,576,124	T	C	0.6761	-0.0073	0.0011	7.20E-11
rs952062	5	13,739,867	A	T	0.1157	0.0102	0.0017	1.30E-09
rs795540	5	13,817,984	T	C	0.5854	-0.0080	0.0011	5.95E-14
rs27455	5	16,452,451	A	C	0.2970	-0.0055	0.0011	1.37E-06
rs112578848	5	20,830,997	A	G	0.8664	0.0060	0.0016	9.78E-05
rs6452080	5	22,325,948	T	C	0.4348	0.0080	0.0011	3.07E-14
rs111449441	5	24,586,703	T	C	0.8644	0.0083	0.0015	5.37E-08
rs10045751	5	25,036,336	C	G	0.6739	-0.0068	0.0011	1.25E-09
rs17563464	5	26,913,774	A	C	0.2189	-0.0127	0.0013	2.35E-23
rs6882059	5	27,776,291	T	C	0.6418	-0.0055	0.0011	4.58E-07
rs12187684	5	29,777,781	A	C	0.7140	0.0058	0.0012	6.26E-07
rs13176265	5	30,082,238	T	C	0.1904	0.0062	0.0013	3.94E-06
rs11739024	5	30,776,002	T	C	0.0189	0.0156	0.0038	5.01E-05
rs10940919	5	30,802,867	A	G	0.5888	-0.0114	0.0011	6.59E-27
rs35733856	5	30,830,597	A	G	0.5961	-0.0119	0.0011	8.26E-29
rs13358689	5	32,437,658	T	C	0.8424	0.0085	0.0014	3.83E-09

rs4869579	5	38,231,257	T	C	0.5202	0.0063	0.0010	1.44E-09
rs13158147	5	43,052,235	T	C	0.1138	-0.0086	0.0016	1.64E-07
rs13161494	5	43,366,191	A	T	0.4168	0.0073	0.0011	5.17E-12
rs115666458	5	51,465,947	A	G	0.0509	-0.0114	0.0024	1.70E-06
rs13169187	5	51,716,957	A	G	0.5398	-0.0070	0.0010	2.94E-11
rs58962658	5	52,789,117	T	C	0.7822	-0.0081	0.0013	1.56E-10
rs72748122	5	52,799,426	A	C	0.8362	0.0118	0.0014	8.13E-17
rs435713	5	52,903,804	A	C	0.2739	0.0023	0.0012	5.22E-02
rs16883014	5	53,843,335	T	C	0.6996	0.0063	0.0011	3.98E-08
rs10068286	5	54,047,337	C	G	0.3862	-0.0045	0.0011	3.22E-05
rs286004	5	55,706,081	T	C	0.4201	0.0067	0.0011	2.26E-10
rs13157551	5	56,664,596	A	G	0.5406	0.0072	0.0011	9.70E-12
rs1020661	5	57,179,504	T	C	0.3435	0.0090	0.0011	2.34E-16
rs78433294	5	57,397,378	T	C	0.3039	0.0058	0.0011	4.03E-07
rs6450476	5	57,771,087	A	G	0.2909	-0.0111	0.0012	5.78E-22
rs7723730	5	57,997,402	A	G	0.1955	0.0071	0.0013	6.12E-08
rs11951879	5	58,836,781	A	G	0.9332	-0.0137	0.0021	8.93E-11
rs1960603	5	59,045,193	C	G	0.2546	0.0104	0.0012	3.36E-18
rs966221	5	59,502,520	A	G	0.4083	-0.0105	0.0011	8.59E-23
rs6878055	5	59,660,803	A	T	0.2882	-0.0147	0.0012	6.72E-37
rs61160187	5	60,111,579	A	G	0.6118	-0.0196	0.0011	1.32E-74
rs75577466	5	60,605,507	C	G	0.1703	-0.0204	0.0014	1.95E-48
rs10061522	5	60,655,782	A	G	0.8717	0.0060	0.0016	1.40E-04
rs2974454	5	61,030,954	T	C	0.4513	-0.0066	0.0011	2.68E-10
rs1812798	5	61,398,412	A	C	0.7414	0.0016	0.0012	1.82E-01
rs153872	5	61,696,182	T	C	0.2550	-0.0040	0.0012	8.53E-04
rs2365396	5	62,879,766	A	G	0.3112	-0.0121	0.0011	1.44E-26
rs3943933	5	63,020,327	A	T	0.4884	-0.0118	0.0010	1.58E-29
rs2440999	5	63,724,143	A	G	0.1636	0.0110	0.0014	7.48E-15
rs116540977	5	64,823,431	T	C	0.0345	-0.0115	0.0030	1.05E-04
rs13159274	5	65,983,727	A	T	0.0975	0.0147	0.0018	6.96E-17
rs10065036	5	66,338,084	A	G	0.2364	-0.0078	0.0012	3.19E-10
rs17236381	5	66,800,946	A	C	0.1368	0.0085	0.0015	2.75E-08
rs12153457	5	67,531,209	T	C	0.8157	-0.0071	0.0014	1.49E-07
rs9291928	5	67,608,679	A	C	0.7558	0.0072	0.0012	3.85E-09
rs56194430	5	67,824,690	T	C	0.1669	-0.0186	0.0014	5.72E-40
rs35243	5	68,018,262	A	G	0.2591	-0.0034	0.0012	4.28E-03
rs1692379	5	71,335,278	T	C	0.8732	0.0050	0.0016	1.52E-03
rs6879628	5	71,415,422	A	C	0.5023	-0.0040	0.0010	1.22E-04
rs7709268	5	71,565,984	T	C	0.1121	0.0065	0.0017	8.40E-05
rs56026882	5	72,401,140	A	G	0.1656	0.0078	0.0014	2.75E-08
rs10942677	5	72,892,600	T	C	0.7196	0.0028	0.0012	1.53E-02
rs10066707	5	74,560,579	A	G	0.3761	0.0046	0.0011	2.16E-05
rs150431497	5	76,591,451	A	G	0.9969	0.0420	0.0096	1.25E-05
rs354332	5	77,124,569	T	C	0.4452	-0.0051	0.0011	1.38E-06
rs252761	5	77,380,723	T	G	0.5931	0.0021	0.0011	4.73E-02
rs72776486	5	77,515,056	A	C	0.2241	-0.0068	0.0013	4.92E-08
rs60637254	5	79,323,473	C	G	0.3972	-0.0084	0.0011	4.48E-15

rs245362	5	80,141,214	T	C	0.5358	0.0064	0.0010	8.17E-10
rs11744829	5	81,069,401	C	G	0.2965	-0.0082	0.0011	8.57E-13
rs12658240	5	81,173,265	T	C	0.2273	0.0088	0.0012	2.25E-12
rs72778518	5	81,546,023	A	G	0.9224	-0.0128	0.0020	6.57E-11
rs12514970	5	82,810,102	T	C	0.1044	0.0090	0.0019	1.58E-06
rs10073918	5	83,382,640	T	G	0.6435	-0.0052	0.0011	2.32E-06
rs7702338	5	85,525,907	A	T	0.4621	-0.0066	0.0010	3.95E-10
rs6893772	5	86,597,231	A	G	0.4082	-0.0018	0.0011	8.46E-02
rs147946601	5	87,391,024	C	G	0.9783	-0.0105	0.0036	3.63E-03
rs357515	5	87,502,325	A	G	0.7803	0.0039	0.0013	2.63E-03
rs116552258	5	87,857,702	T	C	0.1226	0.0231	0.0016	2.86E-47
rs17422060	5	87,858,930	T	G	0.6220	0.0154	0.0011	1.96E-46
rs34316	5	88,015,545	A	C	0.4285	0.0163	0.0011	6.58E-53
rs6864888	5	88,273,653	T	G	0.3790	0.0088	0.0011	4.84E-16
rs2011074	5	88,741,059	T	C	0.3521	0.0083	0.0011	4.94E-14
rs10045806	5	89,245,524	T	G	0.1507	0.0097	0.0015	5.22E-11
rs72781028	5	89,605,859	T	G	0.1325	-0.0060	0.0015	9.70E-05
rs12186681	5	90,940,109	T	C	0.7910	0.0115	0.0013	3.17E-19
rs17590025	5	91,138,453	A	G	0.7216	0.0106	0.0012	8.71E-20
rs72777062	5	91,692,183	T	C	0.2182	0.0060	0.0013	2.45E-06
rs10064877	5	91,968,603	T	C	0.1616	0.0078	0.0014	4.43E-08
rs17669337	5	92,187,932	T	C	0.4117	-0.0101	0.0011	2.46E-21
rs40079	5	92,329,824	A	T	0.8204	-0.0026	0.0014	5.32E-02
rs12188716	5	92,784,778	A	G	0.9429	0.0075	0.0023	8.70E-04
rs10064431	5	92,950,673	T	C	0.4921	-0.0093	0.0011	7.25E-19
rs17311988	5	92,994,868	T	C	0.0191	-0.0275	0.0039	1.40E-12
rs7702649	5	93,065,149	A	C	0.1886	0.0132	0.0013	5.02E-23
rs12189060	5	93,992,652	T	C	0.4560	0.0068	0.0011	1.15E-10
rs42417	5	94,198,290	T	C	0.6932	-0.0039	0.0011	5.25E-04
rs41276251	5	94,208,748	A	G	0.0528	-0.0088	0.0023	1.70E-04
rs13160231	5	96,153,790	T	C	0.2152	-0.0066	0.0013	1.93E-07
rs61077558	5	96,446,075	C	G	0.0371	0.0130	0.0028	2.94E-06
rs468216	5	99,653,975	C	G	0.7420	0.0043	0.0012	3.24E-04
rs187580	5	102,627,355	T	G	0.7694	-0.0109	0.0012	2.10E-18
rs74944275	5	102,726,073	T	C	0.0417	0.0190	0.0026	5.22E-13
rs171697	5	103,956,516	C	G	0.6689	0.0152	0.0011	2.37E-42
rs325513	5	104,097,984	T	C	0.7185	-0.0098	0.0012	2.96E-17
rs4337830	5	104,862,943	A	G	0.6384	-0.0049	0.0011	6.79E-06
rs13153013	5	105,081,582	A	T	0.1487	0.0041	0.0015	4.90E-03
rs1121840	5	106,685,840	T	C	0.7754	0.0104	0.0013	1.30E-16
rs252991	5	106,767,346	A	G	0.3750	0.0103	0.0011	2.33E-21
rs60127859	5	106,951,860	T	C	0.9274	-0.0070	0.0020	4.85E-04
rs13163062	5	106,955,451	T	C	0.4260	0.0094	0.0011	7.03E-19
rs79477964	5	107,131,806	T	C	0.2227	-0.0024	0.0013	5.81E-02
rs34410	5	107,469,684	C	G	0.4624	-0.0076	0.0010	4.73E-13
rs2284988	5	109,041,308	C	G	0.3283	-0.0106	0.0011	2.00E-21
rs1378509	5	109,433,891	T	C	0.7426	-0.0045	0.0012	2.07E-04
rs306067	5	110,710,360	C	G	0.8892	-0.0082	0.0017	9.73E-07

rs79248502	5	111,012,600	C	G	0.9440	-0.0118	0.0023	1.96E-07
rs10050950	5	111,260,051	A	G	0.3352	-0.0073	0.0011	4.64E-11
rs13170603	5	111,828,282	T	C	0.1661	0.0065	0.0014	4.35E-06
rs4705758	5	112,391,033	A	C	0.4632	-0.0053	0.0010	3.98E-07
rs10063699	5	112,875,351	A	C	0.0192	0.0164	0.0038	1.78E-05
rs34471251	5	112,970,062	A	G	0.1708	0.0061	0.0014	1.12E-05
rs56306449	5	113,447,916	A	G	0.8030	0.0064	0.0013	1.21E-06
rs406413	5	113,898,581	A	T	0.7867	0.0127	0.0013	2.55E-23
rs77058418	5	114,458,310	T	C	0.5858	0.0043	0.0011	5.11E-05
rs111694540	5	117,025,985	T	C	0.0563	-0.0112	0.0023	7.85E-07
rs4365869	5	117,254,988	A	T	0.6637	0.0084	0.0011	4.26E-14
rs78803455	5	117,996,739	A	G	0.0362	0.0069	0.0028	1.39E-02
rs2406164	5	120,099,178	C	G	0.3143	-0.0118	0.0011	2.37E-25
rs7721182	5	122,405,791	T	C	0.4433	0.0067	0.0011	1.70E-10
rs1962848	5	122,671,660	A	G	0.2498	0.0029	0.0012	1.63E-02
rs890928	5	122,696,367	A	C	0.6227	-0.0039	0.0011	3.93E-04
rs13156123	5	122,732,050	T	G	0.5706	0.0051	0.0011	1.30E-06
rs147987632	5	122,750,388	T	C	0.0287	-0.0164	0.0031	1.75E-07
rs154286	5	123,158,443	A	G	0.9606	0.0078	0.0027	3.69E-03
rs4835814	5	123,298,624	T	G	0.6852	-0.0027	0.0011	1.48E-02
rs160706	5	123,586,728	A	G	0.6268	0.0070	0.0011	1.17E-10
rs6595530	5	123,863,028	A	T	0.4426	0.0061	0.0011	8.01E-09
rs6895658	5	124,274,035	T	C	0.8050	-0.0094	0.0013	1.15E-12
rs13177659	5	124,336,747	A	G	0.4420	-0.0079	0.0011	5.75E-14
rs30178	5	132,202,399	T	C	0.2604	-0.0055	0.0012	4.11E-06
rs329120	5	133,861,756	T	C	0.4245	0.0133	0.0011	5.21E-36
rs801545	5	134,994,816	T	G	0.2136	-0.0097	0.0013	5.37E-14
rs6860189	5	136,530,244	C	G	0.8493	0.0142	0.0015	2.54E-22
rs17782938	5	136,638,318	A	G	0.8493	-0.0095	0.0015	7.81E-11
rs7710048	5	136,799,480	T	C	0.7658	0.0096	0.0012	7.18E-15
rs11746390	5	137,085,233	T	C	0.7315	-0.0086	0.0012	3.28E-13
rs6869910	5	139,629,450	T	C	0.5501	0.0067	0.0011	1.97E-10
rs10063055	5	140,990,108	T	C	0.2371	-0.0125	0.0012	3.26E-24
rs77275946	5	141,059,360	T	G	0.0201	-0.0142	0.0038	1.50E-04
rs17097461	5	141,077,992	T	C	0.9245	0.0195	0.0020	8.91E-23
rs39991	5	141,123,287	T	C	0.7281	0.0077	0.0012	7.54E-11
rs11739849	5	143,585,622	T	C	0.8632	-0.0068	0.0015	7.71E-06
rs34010978	5	144,509,298	A	G	0.0900	0.0108	0.0018	3.76E-09
rs13161488	5	145,572,664	T	C	0.6480	-0.0087	0.0011	2.45E-15
rs12516990	5	145,927,688	C	G	0.2066	-0.0089	0.0013	4.50E-12
rs10075216	5	146,848,270	A	T	0.5019	0.0037	0.0010	4.60E-04
rs79129596	5	147,902,938	C	G	0.0538	0.0127	0.0024	6.90E-08
rs13174179	5	149,150,671	A	G	0.3218	-0.0070	0.0011	4.00E-10
rs6880251	5	149,652,000	T	C	0.2305	-0.0094	0.0012	5.53E-14
rs3797622	5	149,827,098	A	G	0.2621	-0.0064	0.0012	6.55E-08
rs2964252	5	152,067,929	A	G	0.3111	0.0102	0.0011	1.30E-19
rs512983	5	152,895,409	T	C	0.2087	-0.0077	0.0013	1.84E-09
rs1461224	5	153,186,237	T	G	0.5229	0.0057	0.0010	4.38E-08

rs6580068	5	153,673,621	T	C	0.2188	-0.0093	0.0013	1.96E-13
rs9784665	5	154,829,200	T	C	0.1901	0.0046	0.0014	1.11E-03
rs32338	5	155,555,690	A	G	0.4485	-0.0060	0.0011	1.48E-08
rs6881817	5	157,887,966	T	C	0.2588	0.0060	0.0012	6.14E-07
rs2546365	5	159,598,450	A	C	0.2459	0.0052	0.0012	2.09E-05
rs187212246	5	160,723,242	T	C	0.9965	-0.0310	0.0091	6.16E-04
rs17463127	5	160,952,502	A	T	0.7348	-0.0083	0.0012	3.20E-12
rs4552666	5	161,180,720	A	G	0.7679	-0.0080	0.0012	1.26E-10
rs116679069	5	161,219,417	T	C	0.0130	-0.0125	0.0046	7.20E-03
rs158839	5	163,071,831	A	C	0.6120	-0.0062	0.0011	6.42E-09
rs544460344	5	163,272,289	T	C	0.0056	0.0244	0.0074	9.82E-04
rs1363072	5	163,472,839	T	C	0.4769	-0.0033	0.0010	1.66E-03
rs11951831	5	164,441,438	A	G	0.8778	0.0096	0.0016	2.04E-09
rs55973983	5	164,917,399	T	G	0.1801	-0.0052	0.0014	1.30E-04
rs28807772	5	165,249,121	A	G	0.7798	0.0061	0.0013	1.55E-06
rs1096225	5	165,397,947	T	C	0.3847	0.0054	0.0011	5.26E-07
rs42210	5	166,408,788	C	G	0.7123	-0.0118	0.0012	3.13E-24
rs4868791	5	166,758,289	A	G	0.6297	0.0056	0.0011	2.86E-07
rs10078588	5	166,816,176	A	T	0.5184	-0.0054	0.0010	2.65E-07
rs10039736	5	167,426,711	C	G	0.6635	0.0079	0.0011	1.25E-12
rs12659719	5	167,621,049	T	C	0.5697	0.0085	0.0011	9.75E-16
rs2003850	5	167,844,095	T	C	0.3212	0.0075	0.0011	2.59E-11
rs112716884	5	168,036,387	A	G	0.8194	-0.0073	0.0014	9.04E-08
rs72837981	5	168,691,860	A	T	0.1639	0.0083	0.0014	4.33E-09
rs7702888	5	169,032,328	T	C	0.6282	0.0066	0.0011	9.81E-10
rs451998	5	169,233,115	C	G	0.3634	-0.0061	0.0011	1.82E-08
rs12513693	5	169,283,703	T	C	0.9041	-0.0129	0.0018	3.26E-13
rs4867608	5	169,936,414	A	T	0.6950	0.0078	0.0011	9.02E-12
rs2441019	5	170,468,415	A	T	0.6870	-0.0102	0.0011	1.35E-19
rs7715167	5	170,778,824	T	C	0.3883	-0.0082	0.0011	2.02E-14
rs77813823	5	172,114,135	A	G	0.0558	-0.0112	0.0023	8.54E-07
rs59539756	5	173,524,092	T	C	0.9149	0.0100	0.0019	9.72E-08
rs57788948	5	174,600,507	T	C	0.7874	-0.0066	0.0013	3.11E-07
rs265981	5	174,870,902	A	G	0.3796	0.0072	0.0011	2.14E-11
rs11134999	5	176,163,794	T	C	0.3081	0.0086	0.0011	5.85E-14
rs251848	5	176,492,557	A	G	0.4927	-0.0088	0.0010	4.09E-17
rs2630767	5	176,870,700	T	C	0.4413	0.0130	0.0011	6.56E-35
rs57272473	5	178,381,722	T	C	0.4024	-0.0068	0.0011	2.12E-10
rs4701051	5	178,548,136	T	C	0.6645	-0.0039	0.0011	4.22E-04
rs33900	5	178,765,138	T	C	0.4162	0.0050	0.0011	2.37E-06
rs62406991	5	179,658,323	A	G	0.7422	-0.0071	0.0012	2.72E-09
rs1328688	6	3,468,508	A	G	0.4473	0.0084	0.0011	9.92E-16
rs9504062	6	4,362,178	T	G	0.3704	-0.0046	0.0011	2.31E-05
rs575975	6	6,555,474	A	G	0.4191	0.0063	0.0011	2.89E-09
rs9470808	6	12,035,486	A	G	0.1212	-0.0120	0.0016	1.09E-13
rs868483	6	12,747,857	A	C	0.4229	0.0055	0.0011	2.29E-07
rs9381401	6	12,801,967	A	C	0.5749	-0.0069	0.0011	7.41E-11
rs11757278	6	13,180,454	T	C	0.6931	-0.0082	0.0011	5.03E-13

rs3817741	6	13,279,507	A	G	0.1867	-0.0108	0.0013	1.01E-15
rs1935309	6	14,612,872	T	G	0.8964	0.0127	0.0017	1.39E-13
rs1267488	6	14,719,994	A	G	0.8202	-0.0149	0.0014	5.97E-28
rs422247	6	14,913,987	T	C	0.7430	0.0075	0.0012	3.56E-10
rs179942	6	16,398,917	T	C	0.4019	-0.0065	0.0011	1.55E-09
rs115077346	6	16,533,896	A	G	0.9894	0.0252	0.0052	1.02E-06
rs9297016	6	16,663,101	A	G	0.3986	0.0112	0.0011	9.13E-26
rs2025124	6	16,962,604	T	C	0.2422	0.0016	0.0012	1.94E-01
rs72829857	6	16,966,052	A	G	0.7527	-0.0170	0.0012	7.31E-45
rs13210795	6	17,108,786	A	G	0.1936	0.0078	0.0013	4.12E-09
rs72826409	6	18,886,882	T	C	0.7094	0.0043	0.0012	1.90E-04
rs975303	6	19,028,788	A	G	0.8265	-0.0148	0.0014	1.17E-26
rs16881997	6	19,293,431	T	C	0.9929	0.0266	0.0063	2.59E-05
rs9465509	6	19,744,129	A	G	0.4815	-0.0079	0.0010	4.55E-14
rs34909536	6	23,059,949	T	C	0.2239	0.0057	0.0013	5.79E-06
rs9393415	6	23,447,436	T	C	0.6909	0.0138	0.0011	2.60E-34
rs9366651	6	26,336,696	T	G	0.5347	0.0122	0.0010	3.89E-31
rs55964643	6	26,340,872	A	G	0.5084	-0.0067	0.0011	2.12E-10
rs9467804	6	26,583,129	T	C	0.4764	-0.0107	0.0010	2.36E-24
rs74759001	6	27,600,285	A	G	0.0292	0.0242	0.0037	3.69E-11
rs9380007	6	27,660,508	T	C	0.6308	0.0083	0.0011	1.36E-14
rs6930903	6	28,981,244	A	G	0.7493	0.0159	0.0013	4.73E-33
rs1362104	6	30,101,656	A	G	0.3876	0.0099	0.0011	9.46E-20
rs534316532	6	30,243,235	T	C	0.4521	-0.0035	0.0012	4.12E-03
rs58226684	6	30,285,943	T	C	0.9537	-0.0046	0.0025	6.98E-02
rs1110464	6	30,296,071	T	C	0.5829	0.0054	0.0011	7.13E-07
rs55777621	6	30,584,133	A	G	0.0352	-0.0113	0.0029	8.84E-05
rs9267576	6	31,812,038	T	G	0.1366	0.0182	0.0015	1.00E-32
rs9267673	6	31,883,679	T	C	0.0902	-0.0209	0.0018	2.73E-30
rs28497975	6	32,526,197	A	C	0.0195	0.0156	0.0051	2.26E-03
rs2076312	6	33,142,162	A	C	0.1646	-0.0097	0.0014	6.98E-12
rs1061801	6	33,282,338	A	G	0.1897	-0.0098	0.0013	1.84E-13
rs79926713	6	33,395,522	T	G	0.1713	-0.0073	0.0014	1.60E-07
rs542056	6	33,577,084	T	G	0.9914	0.0241	0.0057	2.77E-05
rs7774407	6	33,775,391	T	C	0.6600	0.0050	0.0011	5.89E-06
rs9368787	6	33,906,104	A	C	0.5095	0.0057	0.0010	4.54E-08
rs2451381	6	34,003,336	A	T	0.2170	-0.0091	0.0013	1.35E-12
rs144702502	6	34,096,435	A	G	0.0122	0.0226	0.0048	2.52E-06
rs9462027	6	34,797,241	A	G	0.2798	-0.0104	0.0012	5.43E-19
rs34140181	6	35,118,056	T	C	0.6821	0.0090	0.0013	5.07E-12
rs129546	6	36,688,729	T	C	0.3728	-0.0050	0.0011	3.77E-06
rs57349798	6	37,486,052	A	G	0.4117	0.0095	0.0011	4.32E-19
rs2504846	6	40,373,846	T	C	0.0262	-0.0258	0.0033	3.74E-15
rs28385630	6	40,400,877	A	G	0.0794	0.0118	0.0019	1.06E-09
rs9471365	6	40,503,394	T	C	0.5282	0.0043	0.0010	4.63E-05
rs9381037	6	41,073,638	A	G	0.1926	0.0064	0.0013	1.59E-06
rs912883	6	41,552,040	T	C	0.6780	0.0088	0.0011	4.51E-15
rs10947996	6	41,892,809	T	G	0.2532	-0.0084	0.0012	3.82E-12

rs113902057	6	43,432,565	A	G	0.0564	0.0112	0.0023	8.70E-07
rs9367303	6	47,746,922	A	G	0.5261	-0.0055	0.0010	1.73E-07
rs2142743	6	48,851,886	T	C	0.4595	0.0063	0.0010	1.64E-09
rs112255786	6	50,888,500	C	G	0.9385	-0.0170	0.0022	6.51E-15
rs9395725	6	51,671,616	T	G	0.2704	0.0064	0.0012	4.69E-08
rs35401683	6	52,218,805	A	G	0.8218	-0.0080	0.0014	6.32E-09
rs6911986	6	52,857,694	T	C	0.2682	-0.0083	0.0012	2.46E-12
rs2653344	6	55,133,586	T	C	0.2016	-0.0086	0.0013	4.78E-11
rs67346355	6	63,565,598	A	T	0.7834	0.0069	0.0013	5.73E-08
rs6415028	6	65,158,194	C	G	0.7051	0.0074	0.0011	1.14E-10
rs9363382	6	66,219,840	A	C	0.2193	0.0098	0.0013	8.82E-15
rs9342577	6	67,456,770	A	G	0.3462	0.0065	0.0011	3.11E-09
rs9363753	6	68,125,255	T	C	0.1866	0.0089	0.0013	2.86E-11
rs9454469	6	69,028,967	A	G	0.3209	-0.0056	0.0011	4.80E-07
rs13198040	6	69,255,589	T	C	0.0971	0.0081	0.0018	4.93E-06
rs2248272	6	69,324,746	A	G	0.3887	0.0059	0.0011	5.21E-08
rs112592247	6	71,074,703	T	C	0.0127	0.0369	0.0047	4.38E-15
rs1741826	6	71,622,486	T	C	0.2901	0.0054	0.0012	3.08E-06
rs9446446	6	72,408,163	A	G	0.5054	-0.0058	0.0010	2.57E-08
rs502506	6	72,724,390	A	G	0.4944	-0.0067	0.0010	1.65E-10
rs28767928	6	73,223,259	A	T	0.2854	0.0072	0.0012	5.47E-10
rs4708009	6	73,697,108	C	G	0.8354	0.0069	0.0014	1.05E-06
rs13212041	6	78,171,124	T	C	0.7995	0.0112	0.0013	9.06E-18
rs10943588	6	79,510,994	A	C	0.6174	0.0068	0.0011	3.34E-10
rs9343881	6	79,891,767	A	G	0.2180	-0.0045	0.0013	3.49E-04
rs6938711	6	82,976,115	T	G	0.6380	0.0055	0.0011	4.19E-07
rs28381472	6	88,305,125	T	C	0.9200	0.0196	0.0019	3.05E-24
rs9359760	6	88,593,579	T	C	0.1803	-0.0047	0.0014	5.31E-04
rs55719561	6	88,691,091	A	G	0.8867	0.0091	0.0017	3.31E-08
rs1980986	6	89,762,007	T	G	0.5613	-0.0059	0.0011	1.74E-08
rs990483	6	90,807,017	C	G	0.7275	0.0056	0.0012	2.34E-06
rs9359939	6	92,133,241	A	C	0.2421	-0.0108	0.0012	6.65E-19
rs1338263	6	93,640,548	A	G	0.5467	-0.0080	0.0011	2.62E-14
rs560701	6	93,841,742	A	G	0.7005	0.0092	0.0011	1.58E-15
rs7775100	6	96,519,657	T	C	0.3913	-0.0081	0.0011	3.09E-14
rs34815026	6	97,385,640	T	C	0.6637	-0.0083	0.0011	5.37E-14
rs1206133	6	97,543,137	T	C	0.7524	0.0076	0.0012	3.80E-10
rs12526814	6	98,212,163	T	C	0.4306	-0.0114	0.0011	3.81E-27
rs1933721	6	98,313,223	C	G	0.5423	-0.0268	0.0021	1.67E-37
rs9372734	6	98,577,689	T	C	0.4819	0.0219	0.0010	3.15E-97
rs9492353	6	99,237,468	A	T	0.5293	-0.0054	0.0010	2.16E-07
rs7759571	6	99,433,084	T	C	0.5572	-0.0016	0.0011	1.22E-01
rs9321394	6	99,600,083	A	G	0.2485	0.0092	0.0012	3.22E-14
rs62432512	6	100,114,982	T	C	0.2509	0.0070	0.0012	8.51E-09
rs9376528	6	100,334,409	A	C	0.3211	0.0072	0.0011	1.34E-10
rs4839779	6	100,832,728	A	G	0.3546	0.0058	0.0011	1.16E-07
rs13214394	6	102,883,639	A	T	0.7532	-0.0067	0.0012	2.81E-08
rs67435421	6	105,079,348	A	C	0.1263	0.0088	0.0016	2.21E-08

rs7775540	6	108,039,290	T	C	0.6536	0.0091	0.0011	9.85E-17
rs1283559	6	108,733,258	T	G	0.4376	0.0060	0.0011	1.49E-08
rs9784763	6	109,624,937	A	G	0.3839	0.0068	0.0011	2.97E-10
rs6905041	6	110,936,144	T	C	0.2009	-0.0112	0.0013	7.50E-18
rs7774177	6	111,579,045	A	G	0.4476	-0.0060	0.0011	1.14E-08
rs17072841	6	112,034,271	A	G	0.0468	-0.0155	0.0025	4.12E-10
rs115288136	6	112,992,912	A	G	0.7368	-0.0075	0.0014	4.89E-08
rs1031800	6	114,150,024	A	C	0.7579	0.0091	0.0012	9.07E-14
rs117005904	6	114,218,608	T	C	0.1190	0.0156	0.0016	5.63E-22
rs10080647	6	114,742,335	A	C	0.1427	0.0090	0.0015	1.92E-09
rs365114	6	115,327,645	T	C	0.8125	0.0087	0.0013	1.08E-10
rs4946087	6	115,821,030	T	C	0.3461	-0.0075	0.0011	1.24E-11
rs210651	6	117,854,605	T	C	0.4337	0.0060	0.0011	1.74E-08
rs36142021	6	119,159,482	T	C	0.3024	-0.0121	0.0011	3.27E-26
rs13213409	6	123,321,410	A	G	0.6986	-0.0072	0.0011	2.11E-10
rs139612798	6	124,349,945	T	C	0.9666	-0.0161	0.0030	5.12E-08
rs577616874	6	124,760,516	A	T	0.0628	0.0145	0.0025	5.72E-09
rs9320991	6	124,763,785	T	C	0.1974	0.0094	0.0013	1.11E-12
rs1479046	6	124,963,241	T	G	0.1827	0.0070	0.0014	2.68E-07
rs9388490	6	126,704,795	T	C	0.4488	0.0115	0.0011	8.43E-28
rs4897189	6	127,088,550	A	T	0.7622	-0.0005	0.0012	7.04E-01
rs17205908	6	127,764,305	T	C	0.3265	-0.0077	0.0012	2.59E-10
rs12055782	6	128,312,033	A	G	0.7179	-0.0118	0.0012	4.15E-24
rs11757516	6	129,374,072	C	G	0.2775	0.0081	0.0012	5.04E-12
rs17812330	6	140,335,268	T	G	0.2604	-0.0081	0.0012	8.85E-12
rs1869274	6	141,524,903	A	C	0.2554	0.0067	0.0012	1.97E-08
rs6570521	6	142,964,625	A	G	0.6818	0.0085	0.0011	3.77E-14
rs9373363	6	143,150,043	A	G	0.7552	-0.0106	0.0012	2.66E-18
rs2432871	6	143,733,908	A	T	0.2900	-0.0064	0.0012	2.78E-08
rs6929638	6	144,965,158	A	G	0.5298	0.0093	0.0010	6.21E-19
rs6570660	6	145,230,852	T	C	0.2688	-0.0117	0.0012	2.73E-23
rs79556505	6	145,634,441	T	C	0.8995	-0.0131	0.0017	5.39E-14
rs474210	6	148,244,701	A	C	0.4802	-0.0063	0.0010	2.14E-09
rs851993	6	152,006,011	A	G	0.6114	-0.0072	0.0011	1.60E-11
rs13204918	6	152,202,929	A	C	0.9447	0.0104	0.0023	6.06E-06
rs7356921	6	152,223,003	T	C	0.2410	-0.0148	0.0012	9.09E-34
rs35060990	6	152,339,163	C	G	0.9241	-0.0138	0.0020	3.68E-12
rs1062577	6	152,423,905	A	T	0.0700	0.0103	0.0021	5.66E-07
rs12201105	6	152,812,569	A	G	0.8626	-0.0102	0.0015	1.77E-11
rs2295230	6	153,365,100	A	C	0.7037	0.0140	0.0012	5.63E-34
rs4869852	6	155,622,481	T	C	0.6625	-0.0082	0.0011	1.52E-13
rs4869856	6	155,813,894	A	G	0.7266	-0.0075	0.0012	2.08E-10
rs59903549	6	156,448,341	T	C	0.0752	-0.0150	0.0020	3.90E-14
rs1889438	6	157,105,541	A	G	0.2804	-0.0081	0.0012	3.25E-12
rs80322007	6	157,771,378	T	C	0.7688	-0.0075	0.0013	3.55E-09
rs61748681	6	158,322,995	A	G	0.0119	-0.0257	0.0049	1.35E-07
rs827951	6	158,855,387	A	G	0.7310	-0.0099	0.0012	4.78E-17
rs11752345	6	160,148,348	T	C	0.2150	0.0089	0.0013	4.33E-12

rs9457793	6	160,388,772	T	G	0.2065	-0.0081	0.0013	4.20E-10
rs76727996	6	162,438,723	T	C	0.0735	0.0133	0.0020	3.12E-11
rs9356034	6	162,946,186	T	C	0.6834	0.0103	0.0011	4.67E-20
rs558017	6	163,550,269	A	C	0.7597	0.0069	0.0012	2.19E-08
rs6908317	6	163,796,849	A	G	0.7671	0.0076	0.0012	6.94E-10
rs9459465	6	166,048,868	A	G	0.2324	-0.0079	0.0012	1.67E-10
rs4709995	6	166,313,447	T	C	0.3957	-0.0074	0.0011	6.11E-12
rs9356513	6	167,124,744	A	C	0.7076	-0.0085	0.0012	2.84E-12
rs34719425	6	167,620,407	T	C	0.2430	0.0095	0.0012	8.07E-15
rs7762296	6	170,042,465	T	C	0.3050	-0.0084	0.0011	2.02E-13
rs11758937	6	170,687,475	A	G	0.2028	-0.0052	0.0013	6.05E-05
rs7793929	7	855,076	A	T	0.6562	-0.0103	0.0013	5.76E-16
rs7783487	7	860,160	A	C	0.6624	-0.0100	0.0011	1.42E-19
rs78395187	7	1,757,126	A	G	0.1423	0.0077	0.0015	3.04E-07
rs2031047	7	1,792,201	A	G	0.3267	-0.0104	0.0011	2.03E-20
rs62442924	7	1,989,976	T	C	0.2113	0.0168	0.0013	2.20E-39
rs113889661	7	2,137,611	T	C	0.0236	0.0252	0.0035	4.56E-13
rs7788620	7	2,196,349	A	G	0.7807	0.0167	0.0013	8.27E-40
rs3735099	7	2,472,429	A	C	0.0442	0.0172	0.0028	6.36E-10
rs4588749	7	3,363,992	A	G	0.4464	0.0126	0.0011	7.59E-33
rs17133535	7	3,583,890	C	G	0.7685	-0.0090	0.0012	4.50E-13
rs13244634	7	5,273,464	T	C	0.2363	-0.0078	0.0012	2.10E-10
rs6963810	7	5,329,448	A	G	0.3170	-0.0066	0.0011	6.10E-09
rs73057725	7	5,434,107	A	G	0.0346	0.0151	0.0029	2.31E-07
rs3757479	7	5,761,191	C	G	0.4860	0.0086	0.0010	2.74E-16
rs34639723	7	6,593,836	T	C	0.5388	-0.0062	0.0011	3.02E-09
rs2018586	7	7,361,896	A	G	0.1909	0.0084	0.0013	3.46E-10
rs17568389	7	8,091,876	A	T	0.5108	0.0122	0.0010	3.47E-31
rs34036351	7	8,145,218	T	C	0.4088	-0.0049	0.0011	3.59E-06
rs10447689	7	8,449,662	T	G	0.0977	-0.0105	0.0018	2.39E-09
rs4401754	7	8,557,562	A	T	0.6938	-0.0064	0.0011	1.57E-08
rs28817935	7	9,793,435	A	G	0.0764	0.0104	0.0020	1.31E-07
rs118134876	7	11,500,372	T	C	0.0611	-0.0311	0.0022	6.97E-46
rs1526527	7	11,709,374	T	C	0.3781	0.0075	0.0011	4.77E-12
rs5018924	7	11,835,850	A	T	0.5787	0.0051	0.0011	1.23E-06
rs113779084	7	11,871,787	A	G	0.2980	0.0120	0.0011	1.40E-25
rs2568617	7	13,455,926	A	G	0.2166	-0.0072	0.0013	1.37E-08
rs2692473	7	13,568,346	A	C	0.5057	-0.0067	0.0010	1.56E-10
rs6946355	7	13,992,460	A	G	0.4620	0.0069	0.0010	4.59E-11
rs7791622	7	14,501,763	T	C	0.3803	-0.0081	0.0011	4.41E-14
rs58500374	7	14,876,808	A	G	0.8652	-0.0104	0.0015	1.28E-11
rs117248752	7	14,995,866	A	C	0.9576	0.0108	0.0026	3.41E-05
rs12537600	7	18,182,771	T	C	0.7936	0.0098	0.0013	3.63E-14
rs12700239	7	20,865,979	A	C	0.2034	-0.0070	0.0013	7.11E-08
rs116973	7	20,903,542	T	C	0.5356	-0.0068	0.0010	1.00E-10
rs7795600	7	21,084,329	T	G	0.4208	0.0070	0.0011	3.51E-11
rs62439690	7	21,417,556	A	G	0.2610	-0.0119	0.0012	2.04E-23
rs13239084	7	21,684,131	A	T	0.5041	-0.0074	0.0010	1.78E-12

rs10257510	7	21,759,745	T	C	0.4346	0.0067	0.0011	2.29E-10
rs79265434	7	24,621,381	A	G	0.8866	-0.0114	0.0017	5.94E-12
rs11971710	7	29,809,569	T	G	0.6315	-0.0072	0.0011	2.49E-11
rs10242462	7	30,850,212	C	G	0.6089	0.0046	0.0011	1.58E-05
rs10240905	7	32,263,069	T	C	0.3661	-0.0108	0.0011	3.05E-23
rs958217	7	32,493,417	A	G	0.6735	0.0077	0.0011	4.62E-12
rs10279655	7	32,817,931	A	T	0.5449	-0.0008	0.0011	4.68E-01
rs143747834	7	34,675,652	C	G	0.2053	-0.0078	0.0013	1.57E-09
rs11979944	7	34,915,775	T	C	0.7706	0.0060	0.0012	1.72E-06
rs2141277	7	39,099,178	A	G	0.4789	0.0098	0.0010	5.44E-21
rs10268735	7	39,376,022	A	G	0.6646	-0.0061	0.0011	3.57E-08
rs886765	7	40,683,852	T	C	0.0824	-0.0108	0.0019	1.73E-08
rs12155345	7	41,301,734	A	C	0.6689	0.0077	0.0011	4.29E-12
rs2108167	7	41,718,107	T	G	0.2532	0.0071	0.0012	2.92E-09
rs4720409	7	41,884,913	A	G	0.6572	-0.0059	0.0011	1.13E-07
rs4724085	7	42,015,480	A	C	0.6856	-0.0087	0.0011	8.84E-15
rs12702051	7	43,599,488	T	C	0.3180	-0.0049	0.0011	1.32E-05
rs799443	7	44,769,013	A	T	0.6654	-0.0109	0.0011	9.30E-23
rs1050331	7	44,808,091	T	G	0.5293	0.0099	0.0010	5.52E-21
rs13250	7	45,026,180	A	G	0.2093	-0.0064	0.0013	7.35E-07
rs71543921	7	46,554,551	T	C	0.0424	-0.0097	0.0026	2.13E-04
rs66488846	7	48,783,897	A	T	0.4418	0.0071	0.0011	1.55E-11
rs11767338	7	49,861,369	T	G	0.7434	0.0116	0.0012	5.48E-22
rs117380979	7	53,888,862	C	G	0.0036	-0.0403	0.0089	6.11E-06
rs11772108	7	54,711,985	A	T	0.7214	-0.0082	0.0012	2.44E-12
rs149352678	7	54,920,906	T	C	0.0979	0.0101	0.0018	1.09E-08
rs62465232	7	66,909,661	A	G	0.6785	-0.0049	0.0011	1.29E-05
rs13227218	7	67,085,784	C	G	0.7207	0.0055	0.0012	2.62E-06
rs79471185	7	68,764,166	T	G	0.0622	-0.0076	0.0022	4.79E-04
rs41852	7	69,012,139	T	G	0.3367	-0.0067	0.0011	1.80E-09
rs7803932	7	70,203,673	A	G	0.1630	0.0117	0.0014	1.55E-16
rs929342	7	70,838,143	A	G	0.2959	-0.0063	0.0011	5.17E-08
rs12699100	7	71,307,658	T	C	0.7059	-0.0072	0.0011	3.09E-10
rs757895	7	71,513,888	T	C	0.6944	0.0105	0.0011	2.71E-20
rs12699131	7	71,751,316	A	G	0.4729	0.0138	0.0010	1.05E-39
rs576189327	7	73,536,730	A	C	0.0042	-0.0389	0.0086	5.52E-06
rs1167796	7	75,173,180	A	G	0.4253	0.0120	0.0011	7.13E-30
rs1179607	7	75,245,141	T	C	0.5351	-0.0017	0.0011	1.12E-01
rs6956241	7	75,900,223	T	G	0.1403	0.0134	0.0015	5.88E-19
rs6952637	7	76,002,759	A	G	0.4153	0.0042	0.0011	8.18E-05
rs372877109	7	77,109,929	T	C	0.0077	-0.0108	0.0063	8.76E-02
rs41281019	7	77,427,588	A	C	0.0139	0.0071	0.0045	1.14E-01
rs7796089	7	77,512,098	C	G	0.3381	-0.0083	0.0011	7.59E-14
rs2428940	7	77,564,448	A	C	0.2632	-0.0045	0.0013	3.21E-04
rs62462737	7	77,594,019	A	G	0.8652	0.0066	0.0015	1.74E-05
rs11975489	7	77,976,904	A	G	0.6992	-0.0046	0.0011	4.94E-05
rs35114939	7	78,128,099	A	G	0.4860	0.0078	0.0010	8.62E-14
rs141053930	7	78,148,458	A	C	0.8841	0.0100	0.0019	1.11E-07

rs2714661	7	79,441,376	A	G	0.6664	-0.0078	0.0011	2.19E-12
rs4489243	7	79,828,958	C	G	0.9129	0.0064	0.0019	5.17E-04
rs304785	7	80,018,297	A	T	0.7654	-0.0051	0.0012	3.62E-05
rs73709354	7	80,511,421	C	G	0.9448	0.0118	0.0023	2.78E-07
rs6973867	7	82,706,009	T	G	0.3073	0.0055	0.0011	1.14E-06
rs41454	7	85,798,820	A	G	0.7606	-0.0105	0.0012	8.79E-18
rs62488405	7	86,234,000	A	C	0.3564	-0.0101	0.0011	1.94E-20
rs2214631	7	88,507,921	A	T	0.2788	0.0071	0.0012	1.43E-09
rs7777286	7	88,830,993	C	G	0.7065	0.0065	0.0011	1.26E-08
rs56735584	7	89,150,344	A	C	0.1314	0.0039	0.0015	1.23E-02
rs2373921	7	89,367,971	C	G	0.5323	0.0046	0.0010	1.30E-05
rs10487992	7	90,559,340	T	G	0.7959	0.0069	0.0013	1.13E-07
rs43001	7	90,753,293	C	G	0.8157	-0.0072	0.0014	1.06E-07
rs10259526	7	91,576,824	T	G	0.6117	-0.0089	0.0011	1.34E-16
rs1123915	7	92,665,884	A	T	0.9048	-0.0043	0.0018	1.73E-02
rs6960056	7	92,673,154	A	G	0.4397	0.0129	0.0011	3.50E-34
rs4729132	7	94,028,924	A	G	0.6323	-0.0046	0.0011	2.01E-05
rs737902	7	95,138,755	A	G	0.2745	-0.0086	0.0012	2.83E-13
rs7798509	7	95,772,293	T	C	0.3860	-0.0053	0.0011	7.72E-07
rs11766968	7	96,622,615	T	C	0.1433	-0.0097	0.0015	9.55E-11
rs6465603	7	97,289,046	A	G	0.1809	0.0110	0.0014	4.55E-16
rs6956283	7	98,756,597	T	C	0.7329	0.0112	0.0012	2.70E-21
rs77356530	7	99,019,565	A	G	0.0167	0.0158	0.0041	1.22E-04
rs12531809	7	99,620,473	T	G	0.3748	-0.0069	0.0011	1.45E-10
rs2406253	7	100,077,273	A	G	0.8024	0.0152	0.0013	8.26E-31
rs75741381	7	100,809,458	C	G	0.8427	-0.0069	0.0014	1.60E-06
rs12533258	7	101,561,056	T	C	0.1731	-0.0077	0.0014	2.26E-08
rs413348	7	101,692,987	A	G	0.7717	0.0109	0.0012	3.59E-18
rs73185898	7	101,727,633	C	G	0.8155	0.0109	0.0015	1.14E-13
rs2023482	7	101,929,278	T	C	0.6413	-0.0079	0.0011	4.73E-13
rs76624694	7	103,269,402	T	C	0.9645	0.0114	0.0028	5.79E-05
rs73714120	7	104,421,249	A	G	0.2995	0.0100	0.0011	2.56E-18
rs56016333	7	104,596,248	T	C	0.6488	-0.0138	0.0011	4.38E-36
rs73186008	7	104,826,263	A	T	0.1757	0.0165	0.0014	2.71E-32
rs4730097	7	105,276,155	T	C	0.4640	0.0058	0.0010	2.53E-08
rs76678496	7	107,054,958	T	C	0.0569	-0.0110	0.0023	1.16E-06
rs10953566	7	107,998,949	A	T	0.4112	-0.0045	0.0011	2.44E-05
rs10249803	7	109,974,056	T	C	0.6967	0.0059	0.0011	2.00E-07
rs211800	7	110,076,140	A	G	0.5163	0.0025	0.0010	1.74E-02
rs2523035	7	112,020,351	A	T	0.1401	-0.0117	0.0015	6.71E-15
rs2396625	7	113,028,634	A	T	0.4275	0.0068	0.0011	1.49E-10
rs62490485	7	113,179,978	T	G	0.6009	0.0055	0.0011	2.49E-07
rs2100249	7	113,848,497	T	G	0.3520	-0.0083	0.0011	2.77E-14
rs6466499	7	114,493,274	A	G	0.2006	-0.0113	0.0013	7.66E-18
rs6958592	7	114,702,840	T	C	0.4590	0.0070	0.0011	2.19E-11
rs2402019	7	115,598,764	T	G	0.8887	0.0093	0.0017	2.96E-08
rs41741	7	116,438,511	T	G	0.6694	0.0074	0.0011	3.35E-11
rs989996	7	117,642,252	T	C	0.4608	-0.0094	0.0010	2.98E-19

rs11767283	7	121,947,456	A	G	0.7731	0.0099	0.0013	3.89E-15
rs6466819	7	122,097,058	A	G	0.3678	-0.0103	0.0011	2.49E-21
rs2430048	7	122,294,181	C	G	0.8424	0.0076	0.0014	1.03E-07
rs1343904	7	122,807,611	T	C	0.3968	0.0071	0.0011	2.80E-11
rs1419561	7	125,574,140	A	T	0.4654	0.0045	0.0010	2.16E-05
rs10228052	7	126,084,920	T	C	0.4555	0.0066	0.0011	3.55E-10
rs1361975	7	126,560,441	A	C	0.6478	0.0094	0.0011	6.73E-18
rs806180	7	127,283,699	T	C	0.3826	-0.0091	0.0011	2.89E-17
rs117070316	7	127,668,769	T	G	0.0320	0.0351	0.0034	1.39E-24
rs79436018	7	127,694,032	T	C	0.8824	0.0133	0.0016	3.42E-16
rs1043595	7	128,410,012	A	G	0.2735	0.0166	0.0012	2.36E-45
rs1596974	7	130,501,219	T	C	0.1614	0.0068	0.0014	2.27E-06
rs7784962	7	132,020,387	T	C	0.4086	0.0062	0.0011	5.81E-09
rs10230652	7	132,697,829	T	C	0.3114	0.0093	0.0011	1.41E-16
rs28588750	7	133,629,138	A	G	0.6402	0.0115	0.0011	7.58E-26
rs4728354	7	135,051,979	T	C	0.5508	0.0099	0.0011	7.14E-21
rs4283969	7	137,071,327	T	G	0.6436	0.0111	0.0011	2.44E-24
rs2718136	7	138,622,572	T	C	0.6717	0.0046	0.0011	3.08E-05
rs10241819	7	139,753,080	T	C	0.6002	-0.0072	0.0011	2.14E-11
rs79507672	7	139,993,248	A	C	0.2493	0.0060	0.0012	7.23E-07
rs1949860	7	145,799,127	A	C	0.8555	0.0074	0.0015	7.48E-07
rs2538963	7	147,599,446	T	C	0.3502	-0.0056	0.0011	3.29E-07
rs2021871	7	150,071,156	T	C	0.6738	0.0065	0.0011	4.87E-09
rs2303929	7	150,761,314	A	G	0.2329	0.0093	0.0012	5.68E-14
rs10256396	7	151,124,989	A	C	0.3382	0.0065	0.0011	3.34E-09
rs4726070	7	151,328,218	A	G	0.5979	0.0102	0.0011	1.05E-21
rs11505217	7	155,560,120	A	C	0.8389	0.0095	0.0014	2.59E-11
rs117245091	7	155,934,258	A	G	0.0153	0.0198	0.0043	3.88E-06
rs62490979	7	156,328,318	C	G	0.6914	-0.0060	0.0011	1.03E-07
rs6949246	7	157,247,703	T	C	0.5545	0.0057	0.0011	7.13E-08
rs336421	8	570,648	T	C	0.3733	0.0079	0.0011	2.91E-13
rs7009856	8	1,146,075	C	G	0.3887	0.0067	0.0011	4.12E-10
rs1499693	8	3,289,450	T	C	0.2589	-0.0062	0.0012	2.39E-07
rs11783952	8	4,161,932	A	T	0.2741	0.0063	0.0012	9.69E-08
rs73660848	8	4,306,213	A	G	0.8395	-0.0079	0.0014	3.54E-08
rs4517143	8	4,835,344	A	G	0.6732	0.0110	0.0011	6.69E-23
rs79754409	8	5,903,561	A	T	0.8039	0.0077	0.0013	4.25E-09
rs12676597	8	9,332,605	T	C	0.3652	0.0107	0.0011	1.05E-22
rs11249939	8	9,556,500	A	G	0.6183	0.0075	0.0011	2.54E-12
rs1521195	8	9,842,234	A	G	0.7998	-0.0059	0.0013	6.20E-06
rs12679687	8	10,123,027	T	C	0.1502	-0.0133	0.0015	1.30E-19
rs7814757	8	10,675,188	T	C	0.4013	-0.0073	0.0011	8.58E-12
rs1692821	8	11,699,988	T	C	0.2883	-0.0041	0.0012	3.61E-04
rs13272943	8	12,629,112	C	G	0.8237	0.0042	0.0014	2.40E-03
rs11773992	8	12,667,804	C	G	0.1783	-0.0138	0.0014	5.84E-24
rs17276956	8	13,979,875	A	C	0.5213	-0.0080	0.0010	3.23E-14
rs7014300	8	14,795,876	A	C	0.1935	0.0092	0.0013	3.11E-12
rs10111226	8	15,245,178	A	G	0.6257	-0.0091	0.0011	4.73E-17

rs2517063	8	17,013,640	A	C	0.5438	0.0071	0.0011	1.76E-11
rs147173823	8	18,222,807	A	G	0.9951	0.0363	0.0076	1.79E-06
rs1492287	8	18,684,622	T	C	0.3172	-0.0058	0.0011	2.61E-07
rs7818300	8	18,970,010	A	T	0.4602	0.0053	0.0011	4.70E-07
rs11783263	8	19,371,674	C	G	0.6471	0.0073	0.0011	3.33E-11
rs4464983	8	19,680,979	T	C	0.6282	-0.0059	0.0011	5.51E-08
rs73211337	8	20,894,971	A	T	0.6072	-0.0064	0.0011	2.32E-09
rs12542005	8	21,410,594	T	G	0.4870	0.0067	0.0010	1.21E-10
rs7818819	8	21,888,853	A	G	0.6737	-0.0059	0.0011	1.20E-07
rs7005505	8	22,276,393	T	C	0.6459	-0.0052	0.0011	1.82E-06
rs35201266	8	22,549,697	T	C	0.2870	0.0079	0.0012	1.40E-11
rs2430813	8	22,863,247	T	C	0.7693	0.0110	0.0012	8.62E-19
rs5017327	8	24,597,912	A	G	0.6429	-0.0066	0.0011	1.70E-09
rs73219806	8	26,279,173	A	C	0.1664	0.0124	0.0014	1.34E-18
rs1372879	8	26,368,212	T	C	0.4259	0.0095	0.0011	2.53E-19
rs2565059	8	27,336,978	A	G	0.1998	0.0089	0.0013	9.33E-12
rs3735724	8	28,695,361	T	C	0.1566	0.0090	0.0014	3.72E-10
rs12234936	8	30,857,668	T	C	0.4190	-0.0146	0.0011	6.54E-43
rs2725385	8	30,928,146	T	C	0.2910	-0.0128	0.0012	1.51E-28
rs4376462	8	31,359,814	T	G	0.3977	-0.0083	0.0011	5.84E-15
rs1495211	8	33,969,491	A	G	0.2142	-0.0074	0.0013	6.03E-09
rs7002561	8	34,882,308	T	G	0.0877	0.0105	0.0019	1.28E-08
rs2951812	8	35,954,918	C	G	0.5113	-0.0058	0.0010	4.19E-08
rs1079678	8	36,664,834	A	G	0.2115	0.0055	0.0013	1.74E-05
rs2980813	8	40,050,010	A	T	0.4696	0.0077	0.0010	1.97E-13
rs17561583	8	40,673,248	T	C	0.1368	-0.0097	0.0015	2.03E-10
rs3824277	8	41,347,396	A	G	0.0464	-0.0148	0.0025	3.06E-09
rs2974337	8	42,390,873	T	C	0.4942	0.0118	0.0010	2.42E-29
rs4873387	8	48,464,457	T	C	0.0480	0.0139	0.0024	1.36E-08
rs16917562	8	53,162,201	A	T	0.8844	-0.0135	0.0016	2.11E-16
rs1866823	8	57,436,577	A	G	0.5413	0.0106	0.0011	8.10E-24
rs4737537	8	60,096,451	T	C	0.2049	-0.0078	0.0013	1.99E-09
rs4270952	8	60,794,591	T	C	0.3702	0.0065	0.0011	1.48E-08
rs75791531	8	64,262,939	A	C	0.0477	0.0106	0.0025	1.96E-05
rs4739090	8	64,321,053	T	C	0.3509	0.0070	0.0011	2.21E-10
rs62509552	8	64,818,620	A	G	0.7211	-0.0081	0.0012	3.33E-12
rs28862984	8	66,043,532	T	C	0.1841	-0.0049	0.0014	3.82E-04
rs6472213	8	66,508,336	T	C	0.3304	-0.0074	0.0011	2.30E-11
rs10156241	8	68,863,901	A	C	0.4081	0.0041	0.0011	1.00E-04
rs10099657	8	69,202,702	A	G	0.6540	-0.0081	0.0011	1.50E-13
rs28594971	8	70,468,380	A	G	0.1790	0.0087	0.0014	1.88E-10
rs6472530	8	71,371,142	A	T	0.6508	-0.0073	0.0011	3.09E-11
rs11992983	8	73,884,908	A	G	0.5463	-0.0084	0.0011	9.88E-16
rs17224289	8	74,703,133	T	C	0.1197	-0.0132	0.0016	3.10E-16
rs11993350	8	75,012,201	T	G	0.0534	-0.0121	0.0023	2.23E-07
rs144014951	8	75,060,103	T	G	0.9719	-0.0162	0.0032	3.40E-07
rs2596125	8	76,642,325	T	C	0.4163	0.0064	0.0011	2.07E-09
rs2312427	8	77,366,529	A	G	0.1916	-0.0025	0.0013	6.55E-02

rs7812747	8	77,366,932	A	G	0.5697	-0.0085	0.0011	7.64E-16
rs2733711	8	77,769,819	T	C	0.2795	0.0066	0.0012	1.30E-08
rs2461063	8	80,619,113	T	C	0.3345	-0.0043	0.0011	1.02E-04
rs62515110	8	81,560,138	T	C	0.8110	0.0093	0.0013	5.64E-12
rs1357913	8	83,674,246	A	G	0.5839	0.0071	0.0011	2.33E-11
rs1357780	8	85,934,993	A	C	0.2936	-0.0074	0.0012	1.85E-10
rs4484676	8	87,271,776	T	C	0.4391	-0.0095	0.0011	3.03E-19
rs28451864	8	87,679,777	A	T	0.5502	0.0118	0.0011	2.63E-29
rs1524835	8	88,044,906	T	C	0.6524	-0.0048	0.0011	1.28E-05
rs402565	8	88,477,927	T	C	0.4208	0.0059	0.0011	3.41E-08
rs2189260	8	91,228,812	T	C	0.6726	0.0078	0.0011	3.16E-12
rs10216873	8	91,420,589	A	G	0.9619	0.0095	0.0027	5.17E-04
rs2740795	8	91,927,455	A	T	0.7379	0.0092	0.0012	1.04E-14
rs7845971	8	93,022,095	A	T	0.2226	-0.0108	0.0013	9.57E-18
rs12155540	8	93,206,092	T	C	0.3295	0.0117	0.0011	6.83E-26
rs62519947	8	93,450,407	T	C	0.3276	0.0087	0.0011	6.52E-15
rs56168441	8	93,753,986	A	T	0.8180	0.0091	0.0014	1.77E-11
rs1055797	8	95,523,233	T	G	0.2485	0.0105	0.0013	2.56E-15
rs10111287	8	95,578,426	T	C	0.2985	0.0099	0.0011	3.63E-18
rs10808352	8	97,760,946	C	G	0.6709	-0.0070	0.0011	2.52E-10
rs11996826	8	99,159,594	A	G	0.6879	0.0052	0.0011	3.69E-06
rs1786313	8	101,737,075	T	C	0.3137	0.0077	0.0011	8.15E-12
rs2454007	8	104,137,518	A	G	0.7426	0.0047	0.0012	9.95E-05
rs11786807	8	105,077,013	A	G	0.5729	-0.0081	0.0011	1.72E-14
rs3857891	8	105,703,852	A	G	0.2114	0.0072	0.0013	2.05E-08
rs12541093	8	106,463,774	T	C	0.2094	-0.0102	0.0013	2.34E-15
rs1564117	8	107,619,553	C	G	0.8534	0.0125	0.0015	2.46E-17
rs1480560	8	109,572,851	A	G	0.3973	0.0057	0.0011	1.19E-07
rs74833567	8	110,201,408	A	G	0.0976	0.0128	0.0018	4.08E-13
rs1605127	8	110,859,323	A	G	0.1985	0.0060	0.0013	4.80E-06
rs6994168	8	111,505,925	C	G	0.7765	0.0074	0.0013	4.87E-09
rs2590903	8	115,455,967	A	G	0.6661	0.0068	0.0011	9.44E-10
rs191001562	8	117,497,229	A	G	0.9902	-0.0225	0.0054	2.58E-05
rs58836328	8	117,687,616	A	T	0.0953	0.0100	0.0018	1.74E-08
rs3105764	8	118,734,726	A	T	0.6068	-0.0056	0.0011	2.21E-07
rs76555305	8	118,807,350	A	G	0.0314	-0.0204	0.0031	3.66E-11
rs72673939	8	118,867,693	C	G	0.1885	-0.0111	0.0013	1.29E-16
rs4876775	8	118,944,974	A	G	0.3152	-0.0113	0.0011	1.65E-23
rs76508452	8	120,040,254	A	G	0.0628	0.0095	0.0022	1.01E-05
rs13278836	8	120,215,797	A	G	0.1155	0.0137	0.0016	5.10E-17
rs11779779	8	123,767,773	T	C	0.2396	0.0060	0.0012	1.12E-06
rs7002655	8	125,589,956	A	G	0.4425	0.0069	0.0011	5.12E-11
rs1554962	8	127,380,069	T	C	0.5210	0.0056	0.0010	9.55E-08
rs35932033	8	127,417,164	A	G	0.7518	-0.0093	0.0012	2.46E-14
rs2006853	8	127,600,255	A	G	0.5875	0.0092	0.0011	3.99E-18
rs1367966	8	129,697,564	T	C	0.5232	0.0050	0.0010	1.76E-06
rs9297781	8	130,029,366	A	C	0.2984	-0.0069	0.0011	1.36E-09
rs837080	8	130,925,116	T	C	0.5225	-0.0098	0.0010	1.07E-20

rs4736735	8	132,029,508	C	G	0.5200	0.0068	0.0010	6.91E-11
rs7839989	8	133,796,266	T	C	0.2241	0.0099	0.0013	3.58E-15
rs853307	8	133,930,674	T	C	0.5265	-0.0052	0.0010	6.53E-07
rs35567946	8	135,416,103	C	G	0.5908	-0.0099	0.0011	1.97E-20
rs10448005	8	135,427,757	T	C	0.1210	-0.0126	0.0016	4.50E-15
rs13262684	8	136,015,169	T	C	0.5618	-0.0059	0.0011	1.72E-08
rs4130077	8	136,678,363	T	C	0.4583	-0.0050	0.0011	1.67E-06
rs438788	8	137,673,429	A	T	0.2067	0.0085	0.0013	8.17E-11
rs17721326	8	139,310,138	T	C	0.2951	0.0087	0.0011	4.75E-14
rs4909430	8	139,518,806	T	C	0.1279	0.0090	0.0017	1.18E-07
rs10088129	8	141,060,242	A	G	0.5937	0.0051	0.0011	1.76E-06
rs2977467	8	141,547,712	T	C	0.7868	-0.0119	0.0013	2.94E-20
rs11166986	8	141,656,155	A	G	0.4951	-0.0088	0.0010	3.70E-17
rs3739239	8	142,221,874	A	G	0.8806	-0.0041	0.0016	1.21E-02
rs2304282	8	142,229,543	A	G	0.4148	0.0110	0.0011	4.04E-25
rs746839	8	142,617,261	C	G	0.6330	0.0099	0.0011	8.64E-20
rs9324563	8	142,857,556	T	C	0.4311	-0.0068	0.0011	2.49E-10
rs11775108	8	143,110,476	A	G	0.4871	-0.0093	0.0010	4.73E-19
rs28540013	8	143,297,329	T	C	0.0738	-0.0155	0.0020	1.69E-14
rs14433675	8	143,356,114	A	G	0.0176	0.0396	0.0040	3.71E-23
rs13276323	8	143,620,513	A	G	0.2130	0.0057	0.0013	9.71E-06
rs2585183	8	143,766,059	C	G	0.5654	-0.0072	0.0011	8.34E-12
rs2721188	8	145,665,699	T	C	0.6133	-0.0081	0.0011	8.50E-14
rs11774212	8	145,686,505	T	C	0.5107	0.0157	0.0010	1.70E-50
rs10810620	9	1,686,322	A	G	0.5027	0.0098	0.0010	6.90E-21
rs4741600	9	1,757,753	T	C	0.3404	0.0158	0.0011	2.09E-46
rs10970007	9	3,107,295	T	C	0.6773	-0.0081	0.0011	3.87E-13
rs75347228	9	3,357,770	T	C	0.0413	0.0129	0.0026	1.02E-06
rs472544	9	3,934,575	A	G	0.7701	0.0069	0.0012	2.84E-08
rs7856928	9	7,041,003	T	C	0.6169	-0.0066	0.0011	7.09E-10
rs10977035	9	8,393,528	A	G	0.7397	-0.0065	0.0012	4.49E-08
rs10815863	9	8,418,224	T	C	0.1302	-0.0101	0.0018	1.65E-08
rs35583726	9	8,533,697	A	G	0.8334	0.0119	0.0014	3.13E-17
rs10815961	9	8,818,758	T	C	0.4970	0.0063	0.0010	1.30E-09
rs10122845	9	9,388,454	T	C	0.5404	0.0045	0.0010	2.16E-05
rs2025152	9	10,265,725	A	G	0.6691	0.0078	0.0011	1.80E-12
rs1329605	9	10,805,894	T	C	0.2804	0.0075	0.0012	1.84E-10
rs2220468	9	11,190,741	A	T	0.3118	0.0082	0.0011	3.80E-13
rs7043405	9	11,442,765	T	C	0.4329	0.0092	0.0011	2.57E-18
rs2183132	9	13,066,353	A	T	0.7700	0.0061	0.0012	8.67E-07
rs3780577	9	13,211,404	C	G	0.2999	-0.0066	0.0011	7.46E-09
rs67311478	9	13,973,013	A	G	0.5969	-0.0051	0.0011	2.09E-06
rs7045411	9	14,145,058	A	G	0.8494	0.0193	0.0015	1.52E-39
rs10810112	9	14,199,909	T	C	0.1336	-0.0065	0.0015	2.34E-05
rs19228214	9	14,240,524	A	G	0.9960	0.0440	0.0085	2.28E-07
rs10810145	9	14,430,692	A	G	0.4062	0.0093	0.0011	3.72E-18
rs303745	9	14,491,637	A	G	0.6578	0.0070	0.0011	1.70E-10
rs12685522	9	14,786,962	T	C	0.4945	0.0079	0.0010	3.97E-14

rs473384	9	15,214,958	A	C	0.4185	-0.0051	0.0011	1.68E-06
rs4281189	9	15,557,752	A	G	0.4378	0.0078	0.0011	1.44E-13
rs59234174	9	16,730,258	T	C	0.1566	-0.0103	0.0014	9.42E-13
rs180986360	9	17,813,914	T	C	0.0012	0.0613	0.0158	1.07E-04
rs6475368	9	19,779,939	T	C	0.5509	-0.0060	0.0011	1.23E-08
rs10965400	9	22,607,894	T	C	0.6309	0.0067	0.0011	6.25E-10
rs10965791	9	23,348,241	T	C	0.8556	0.0115	0.0015	1.12E-14
rs4557790	9	23,349,982	A	C	0.5537	0.0205	0.0011	4.88E-84
rs10757431	9	23,400,379	A	T	0.2455	0.0015	0.0012	2.21E-01
rs1410847	9	23,710,663	A	T	0.9534	-0.0101	0.0025	4.90E-05
rs2026037	9	23,762,529	T	C	0.8408	0.0154	0.0014	4.56E-27
rs7864479	9	25,247,018	T	C	0.8845	-0.0071	0.0016	1.62E-05
rs4879541	9	27,533,452	T	C	0.4892	-0.0056	0.0010	1.03E-07
rs10812665	9	27,808,093	A	T	0.4478	-0.0065	0.0011	9.45E-10
rs10968218	9	27,946,527	T	G	0.6568	0.0066	0.0011	1.87E-09
rs10813085	9	29,427,472	T	C	0.1947	0.0072	0.0013	4.35E-08
rs10813533	9	31,319,287	T	C	0.8740	0.0102	0.0016	1.24E-10
rs4879832	9	34,830,432	T	C	0.3772	-0.0064	0.0011	3.56E-09
rs10123310	9	37,972,512	T	C	0.4919	0.0056	0.0010	8.77E-08
rs2781537	9	72,078,593	T	C	0.5738	0.0081	0.0011	2.25E-14
rs62543169	9	73,069,133	T	C	0.4276	-0.0116	0.0011	3.33E-28
rs117243900	9	73,304,519	T	C	0.0408	-0.0151	0.0027	1.16E-08
rs117023600	9	75,040,946	A	G	0.0410	0.0153	0.0026	6.93E-09
rs517674	9	76,908,607	C	G	0.2644	0.0080	0.0012	1.72E-11
rs978010	9	77,190,380	T	C	0.8409	-0.0062	0.0014	1.60E-05
rs10781342	9	78,778,550	T	C	0.2083	0.0083	0.0013	1.32E-10
rs10867226	9	81,232,453	T	C	0.2594	0.0067	0.0012	1.72E-08
rs10867306	9	81,547,131	A	T	0.3917	0.0093	0.0011	4.15E-18
rs34532817	9	81,914,318	T	C	0.0628	0.0060	0.0022	5.32E-03
rs9886703	9	82,246,351	A	T	0.1671	-0.0112	0.0014	1.22E-15
rs4877516	9	82,442,731	A	T	0.4380	-0.0091	0.0011	5.43E-18
rs10867548	9	83,093,792	A	G	0.8557	0.0093	0.0015	4.33E-10
rs7035315	9	83,231,511	A	G	0.6281	-0.0086	0.0011	1.76E-15
rs11139717	9	85,349,952	A	G	0.9345	-0.0105	0.0021	7.78E-07
rs12339003	9	86,018,406	C	G	0.1076	-0.0061	0.0017	3.17E-04
rs10124443	9	86,333,661	T	C	0.6280	0.0059	0.0011	5.82E-08
rs1187326	9	87,285,915	T	C	0.7714	0.0094	0.0012	4.69E-14
rs12238534	9	87,547,350	T	G	0.1341	0.0071	0.0015	4.37E-06
rs2841453	9	88,014,875	A	G	0.7574	-0.0102	0.0012	6.76E-17
rs2316182	9	91,813,985	A	G	0.8745	0.0135	0.0016	1.39E-17
rs7040995	9	92,226,172	C	G	0.5320	0.0116	0.0010	3.01E-28
rs10821123	9	96,169,561	A	G	0.3898	0.0106	0.0011	6.38E-23
rs10992836	9	96,422,420	T	C	0.3407	-0.0116	0.0011	5.62E-26
rs3118765	9	97,027,424	A	G	0.6166	0.0087	0.0011	6.14E-16
rs357564	9	98,209,594	A	G	0.3362	-0.0075	0.0011	2.13E-11
rs111821072	9	99,084,793	T	C	0.1544	0.0153	0.0015	4.70E-26
rs7862197	9	102,204,754	T	C	0.6561	0.0093	0.0011	4.46E-17
rs2787370	9	103,048,677	A	C	0.9004	-0.0120	0.0018	8.07E-12

rs141159401	9	103,144,341	A	C	0.9769	0.0211	0.0035	2.65E-09
rs4294245	9	103,510,680	T	G	0.6309	-0.0050	0.0011	3.59E-06
rs10819962	9	104,413,645	A	G	0.2859	-0.0074	0.0012	1.87E-10
rs2417447	9	106,417,011	T	C	0.4501	-0.0076	0.0011	4.70E-13
rs62583461	9	106,763,396	A	G	0.0677	0.0089	0.0021	2.25E-05
rs7033165	9	108,384,074	A	G	0.9013	0.0094	0.0018	8.90E-08
rs111453717	9	108,880,564	A	G	0.9628	0.0172	0.0028	5.24E-10
rs10978672	9	109,682,501	A	G	0.8519	0.0139	0.0015	4.23E-21
rs698472	9	109,898,310	T	C	0.6640	-0.0050	0.0011	6.34E-06
rs7026972	9	111,750,523	T	C	0.6439	-0.0115	0.0011	7.08E-26
rs6477724	9	112,527,594	C	G	0.3815	-0.0050	0.0011	3.83E-06
rs4978557	9	116,635,490	A	G	0.4257	-0.0058	0.0011	5.76E-08
rs7847231	9	118,209,071	A	C	0.6141	-0.0058	0.0011	8.62E-08
rs34140540	9	119,225,909	T	C	0.8156	-0.0086	0.0014	1.51E-10
rs10759882	9	119,733,639	T	C	0.7186	-0.0073	0.0012	3.07E-10
rs10983487	9	119,824,051	T	C	0.5758	0.0070	0.0011	3.06E-11
rs10818013	9	119,961,784	T	C	0.3518	-0.0055	0.0011	5.73E-07
rs492121	9	120,700,339	A	G	0.6231	-0.0044	0.0011	4.42E-05
rs1410210	9	121,065,220	A	G	0.7735	0.0083	0.0013	3.36E-11
rs115795	9	121,883,165	A	G	0.2414	-0.0085	0.0012	4.00E-12
rs10984444	9	121,980,347	A	C	0.5076	-0.0116	0.0010	1.02E-28
rs10739535	9	122,071,394	T	C	0.4431	0.0035	0.0011	8.19E-04
rs71507581	9	122,281,192	T	C	0.4911	-0.0062	0.0011	4.25E-09
rs1468643	9	122,334,719	A	G	0.5094	0.0067	0.0010	1.28E-10
rs12336873	9	122,675,981	T	C	0.3941	0.0054	0.0011	5.97E-07
rs10739569	9	123,361,027	C	G	0.7001	-0.0072	0.0011	2.49E-10
rs7032484	9	124,617,919	A	G	0.5660	0.0130	0.0011	6.76E-35
rs7468947	9	124,978,011	A	G	0.2330	-0.0089	0.0012	8.83E-13
rs28661002	9	126,335,211	T	C	0.7570	0.0128	0.0012	9.56E-26
rs10986157	9	126,718,770	T	C	0.7342	-0.0057	0.0012	1.30E-06
rs7867942	9	126,771,321	T	C	0.9417	0.0129	0.0022	8.65E-09
rs631287	9	128,412,676	A	G	0.5583	0.0085	0.0011	7.04E-16
rs2041543	9	129,197,579	T	C	0.1587	0.0091	0.0014	1.75E-10
rs10819272	9	129,954,334	T	C	0.5954	0.0070	0.0011	6.27E-11
rs504434	9	130,477,768	A	G	0.5254	0.0069	0.0010	5.71E-11
rs74532781	9	130,979,716	A	G	0.1436	-0.0119	0.0015	1.50E-15
rs2296956	9	134,404,784	C	G	0.3597	0.0063	0.0011	9.90E-09
rs9411336	9	134,901,901	T	C	0.3234	-0.0128	0.0011	1.56E-30
rs59210554	9	135,012,819	A	G	0.7679	0.0050	0.0012	5.64E-05
rs7853213	9	135,506,947	T	C	0.2383	0.0122	0.0012	2.25E-23
rs3815183	9	135,737,520	T	C	0.8057	-0.0084	0.0013	1.95E-10
rs72766630	9	136,926,791	T	G	0.1757	-0.0078	0.0014	1.36E-08
rs10858353	9	138,039,129	T	C	0.2012	-0.0060	0.0013	4.44E-06
rs55816769	9	138,656,783	T	C	0.7599	-0.0081	0.0012	5.96E-11
rs7469569	9	139,926,402	T	C	0.3575	0.0095	0.0011	3.57E-18
rs28458909	9	140,257,189	T	C	0.1235	-0.0190	0.0016	5.98E-31
rs863701	9	140,470,119	A	G	0.7996	0.0070	0.0013	9.29E-08

Notes: The COJO analysis was performed as described in Supplementary Section 2.2.7. Chromosome (Chr) and base pair (E) report the original values from the additive GWAS meta-analysis. "COJO effect size", "COJO S.E." and "COJO P value" column association is "primary" if it is identified as a lead SNP when we apply our clumping algorithm (see Supplementary Section algorithm, i.e. if it has pairwise $r^2 > 0.1$ with at least one primary SNP. The column "Secondary associations in locus (if prim:

COJO Analysis of the additive *EduYears* analys

COJO effect size	COJO S.E.	COJO <i>P</i> -value	<i>N</i>	Primary or secondary?	Secondary associations in locus (if primary)
-0.0071	0.0011	7.59E-11	3,037,460	primary	-
0.0076	0.0011	1.01E-11	3,037,470	primary	-
-0.0061	0.0011	2.01E-08	3,037,460	primary	-
0.0123	0.0011	7.36E-29	3,037,420	primary	-
0.0130	0.0020	2.94E-11	3,037,500	primary	-
0.0065	0.0011	8.56E-10	3,037,480	primary	-
0.0121	0.0019	3.55E-10	3,017,310	primary	-
-0.0076	0.0011	5.70E-12	3,020,800	primary	-
-0.0069	0.0013	3.76E-08	3,037,480	primary	-
0.0265	0.0044	1.65E-09	2,971,410	primary	-
-0.0088	0.0012	1.23E-12	3,037,460	primary	-
0.0098	0.0011	1.28E-20	3,037,450	primary	-
0.0114	0.0012	4.73E-20	3,015,690	primary	-
0.0173	0.0017	1.30E-24	3,037,450	primary	rs9423837
0.0086	0.0014	1.99E-10	3,037,490	secondary	N/A
-0.0105	0.0011	1.97E-23	3,035,710	primary	-
0.0084	0.0012	2.12E-12	3,031,550	primary	-
0.0091	0.0011	2.46E-17	3,016,570	primary	-
-0.0089	0.0011	4.35E-17	3,000,790	primary	-
-0.0076	0.0011	3.47E-13	3,036,900	primary	-
0.0155	0.0017	2.42E-20	3,037,430	primary	-
0.0063	0.0011	5.79E-09	3,037,480	primary	-
0.0115	0.0016	3.47E-12	3,037,440	primary	-
0.0100	0.0013	2.01E-15	3,020,770	primary	-
-0.0175	0.0030	5.28E-09	3,016,320	primary	-
0.0093	0.0011	3.58E-17	2,988,300	primary	-
0.0106	0.0013	5.89E-17	3,034,940	primary	-
-0.0063	0.0011	4.74E-09	3,036,670	primary	-
0.0099	0.0014	3.67E-13	3,036,660	primary	-
0.0064	0.0011	7.13E-09	3,036,660	primary	-
0.0104	0.0013	2.67E-15	3,036,670	primary	-
0.0098	0.0013	1.49E-14	3,036,680	primary	-
0.0088	0.0011	8.83E-17	3,034,930	primary	-
-0.0133	0.0022	1.19E-09	3,036,680	primary	-
0.0069	0.0012	8.27E-09	2,986,730	primary	-
0.0104	0.0011	7.73E-22	3,036,610	primary	-
-0.0090	0.0014	6.21E-11	3,036,690	primary	-
0.0182	0.0027	2.97E-11	2,999,960	primary	-
-0.0067	0.0011	1.39E-09	2,953,910	primary	-
-0.0090	0.0014	4.69E-10	3,013,450	primary	-
0.0095	0.0015	3.98E-10	3,036,700	primary	-
0.0239	0.0034	2.88E-12	2,852,260	primary	-
-0.0091	0.0011	2.32E-17	3,036,620	primary	-
-0.0079	0.0013	3.65E-10	3,036,660	primary	-
0.0091	0.0011	6.19E-18	3,036,630	primary	-
0.0076	0.0011	8.45E-13	3,036,660	primary	-

-0.0093	0.0011	4.76E-17	3,018,270	primary	-
0.0167	0.0025	2.00E-11	2,983,130	primary	-
-0.0108	0.0011	7.22E-22	3,036,670	primary	-
-0.0062	0.0011	6.69E-09	3,034,970	primary	-
0.0161	0.0011	7.42E-52	3,036,530	primary	-
0.0077	0.0011	5.20E-13	3,034,910	primary	-
0.0092	0.0014	6.26E-11	3,034,950	primary	-
-0.0094	0.0016	3.24E-09	2,552,050	primary	-
0.0124	0.0017	7.21E-14	3,036,100	primary	-
-0.0072	0.0012	1.35E-09	3,036,690	primary	-
-0.0089	0.0011	8.68E-15	3,034,890	primary	-
-0.0082	0.0014	1.63E-09	3,036,630	primary	-
0.0090	0.0011	3.78E-15	3,032,810	primary	-
0.0099	0.0014	1.04E-12	3,034,970	primary	-
0.0131	0.0016	1.10E-16	2,999,250	primary	-
-0.0102	0.0012	2.03E-16	3,036,670	primary	-
0.0080	0.0011	2.47E-12	3,034,960	primary	-
0.0060	0.0011	2.87E-08	3,034,210	primary	-
-0.0122	0.0019	1.04E-10	3,036,150	primary	-
-0.0089	0.0011	1.02E-15	3,009,670	primary	-
-0.0100	0.0012	7.20E-16	3,018,410	primary	-
-0.0075	0.0014	2.36E-08	2,901,400	primary	-
-0.0064	0.0011	2.15E-08	3,036,640	primary	-
-0.0110	0.0012	2.31E-20	3,036,670	primary	-
-0.0112	0.0016	2.95E-12	3,016,880	primary	-
-0.0064	0.0011	1.18E-09	3,034,980	primary	-
-0.0077	0.0011	4.09E-13	3,036,680	primary	-
0.0068	0.0011	6.98E-10	3,036,680	primary	-
-0.0090	0.0012	1.71E-14	3,036,690	primary	-
0.0070	0.0011	1.31E-10	3,036,660	primary	-
-0.0086	0.0011	1.08E-14	3,036,670	primary	-
0.0148	0.0012	1.39E-35	3,036,620	primary	-
-0.0080	0.0013	1.91E-10	3,036,670	primary	-
0.0068	0.0012	4.06E-08	3,036,700	primary	-
-0.0072	0.0013	4.55E-08	3,034,960	primary	-
-0.0083	0.0011	1.40E-14	3,036,640	primary	-
-0.0059	0.0011	2.03E-08	3,034,840	primary	-
-0.0073	0.0011	1.00E-11	3,036,110	primary	-
0.0153	0.0026	6.56E-09	2,960,410	primary	-
-0.0081	0.0012	3.94E-12	3,022,390	primary	-
0.0064	0.0011	9.37E-10	3,036,650	primary	-
-0.0065	0.0011	6.41E-10	3,036,670	primary	-
-0.0095	0.0013	8.51E-13	3,036,670	primary	-
0.0082	0.0011	1.98E-13	3,020,880	primary	-
-0.0119	0.0011	2.88E-26	3,034,900	primary	-
-0.0077	0.0011	3.95E-13	3,035,790	primary	-
0.0088	0.0011	1.12E-14	3,036,620	primary	-
0.0094	0.0012	2.69E-15	3,036,680	primary	-

0.0151	0.0012	2.62E-34	3,036,480	primary	rs2479552
0.0085	0.0012	1.24E-12	3,036,570	secondary	N/A
-0.0094	0.0012	4.51E-16	3,036,570	primary	-
-0.0096	0.0013	4.94E-14	3,033,180	primary	-
0.0112	0.0017	3.07E-11	2,514,250	primary	-
0.0189	0.0013	1.73E-45	3,036,520	primary	rs1490176
0.0101	0.0013	2.19E-14	3,036,700	secondary	N/A
0.0111	0.0017	2.02E-11	3,036,600	primary	-
-0.0136	0.0013	4.59E-26	3,034,700	primary	-
0.0138	0.0015	3.57E-21	3,034,100	primary	-
0.0129	0.0021	6.56E-10	3,034,230	primary	-
-0.0136	0.0020	5.70E-12	3,035,750	primary	-
-0.0138	0.0015	8.01E-20	3,036,630	primary	-
0.0063	0.0011	2.16E-09	3,036,130	primary	-
-0.0088	0.0011	4.96E-15	3,036,670	primary	-
-0.0081	0.0011	2.89E-14	3,017,660	primary	-
-0.0217	0.0036	1.77E-09	3,002,350	primary	-
-0.0121	0.0019	3.99E-10	3,036,700	primary	-
0.0102	0.0012	5.15E-18	3,034,930	primary	-
-0.0094	0.0011	7.92E-19	3,036,660	primary	-
-0.0067	0.0011	1.43E-09	3,034,730	primary	-
0.0063	0.0011	1.70E-08	3,034,740	primary	-
0.0085	0.0012	5.41E-12	3,036,660	primary	-
0.0081	0.0011	3.59E-14	3,020,850	primary	-
0.0078	0.0011	1.20E-12	2,999,490	primary	-
-0.0063	0.0011	2.88E-09	3,006,480	primary	-
-0.0103	0.0018	1.72E-08	2,991,120	primary	-
0.0073	0.0012	3.00E-10	3,003,920	primary	-
0.0095	0.0011	1.34E-19	3,036,640	primary	-
-0.0132	0.0012	5.48E-28	3,004,830	primary	-
0.0079	0.0011	9.15E-14	3,031,990	primary	-
0.0105	0.0012	1.52E-17	3,031,410	primary	-
-0.0072	0.0011	8.70E-12	3,032,260	primary	-
0.0074	0.0013	4.13E-09	3,011,190	primary	-
0.0446	0.0057	6.77E-15	2,902,990	primary	-
0.0119	0.0013	4.12E-19	3,029,130	primary	-
0.0102	0.0014	1.76E-13	2,999,140	primary	-
0.0077	0.0011	2.48E-13	3,033,810	primary	-
0.0074	0.0011	6.57E-11	3,035,760	primary	-
-0.0153	0.0012	2.14E-39	3,037,330	primary	-
0.0095	0.0015	6.61E-10	3,037,480	primary	-
0.0088	0.0014	2.79E-10	3,037,470	primary	-
-0.0075	0.0013	6.29E-09	3,037,460	primary	-
-0.0067	0.0012	1.14E-08	2,524,880	primary	-
-0.0091	0.0011	3.82E-18	3,037,470	primary	-
-0.0058	0.0011	3.50E-08	3,037,500	primary	-
0.0089	0.0012	1.20E-14	3,037,440	primary	-
0.0079	0.0012	6.05E-11	3,035,780	primary	-

-0.0097	0.0016	2.58E-09	3,036,940	primary	-
0.0067	0.0011	4.90E-10	3,035,790	primary	-
-0.0085	0.0011	6.51E-16	3,029,440	primary	-
-0.0148	0.0012	1.81E-33	3,037,410	primary	-
-0.0099	0.0011	4.50E-19	3,037,420	primary	-
-0.0197	0.0019	4.77E-26	3,036,490	primary	-
-0.0111	0.0011	2.42E-24	3,036,860	primary	-
0.0171	0.0030	1.97E-08	3,035,840	primary	-
0.0080	0.0011	5.72E-14	3,035,640	primary	-
0.0171	0.0018	8.83E-22	3,020,610	primary	-
0.0061	0.0011	1.76E-08	3,037,510	primary	-
-0.0071	0.0011	1.99E-11	3,037,470	primary	-
0.0118	0.0013	6.77E-19	3,037,460	primary	-
0.0139	0.0020	6.55E-12	3,023,510	primary	-
-0.0098	0.0014	7.98E-13	3,036,570	primary	-
0.0120	0.0021	1.03E-08	3,037,470	primary	-
0.0064	0.0011	3.08E-09	3,035,740	primary	-
-0.0069	0.0011	1.56E-10	3,037,500	primary	-
0.0206	0.0016	2.62E-40	3,037,420	primary	-
0.0202	0.0024	1.76E-17	3,015,000	primary	-
0.0082	0.0011	2.32E-13	3,000,870	primary	-
-0.0112	0.0011	2.29E-23	3,037,430	primary	-
-0.0200	0.0032	3.89E-10	2,962,240	primary	-
-0.0262	0.0030	1.16E-18	2,968,660	primary	-
0.0100	0.0011	8.90E-20	3,022,940	primary	-
0.0139	0.0015	1.74E-19	3,001,920	primary	-
-0.0310	0.0043	8.15E-13	2,956,440	primary	-
0.0075	0.0011	1.39E-11	3,035,500	primary	-
-0.0135	0.0013	3.95E-24	3,034,970	primary	-
0.0220	0.0032	5.73E-12	2,990,850	primary	-
0.0132	0.0012	3.20E-26	2,998,830	primary	-
-0.0081	0.0011	3.52E-14	2,970,040	primary	-
0.0082	0.0012	1.63E-11	2,272,180	primary	-
0.0108	0.0012	7.96E-20	3,034,430	primary	-
0.0184	0.0029	2.10E-10	3,035,400	primary	-
-0.0097	0.0016	6.46E-10	3,023,240	primary	-
-0.0158	0.0016	2.41E-24	3,036,880	primary	-
0.0097	0.0014	1.82E-11	3,037,390	primary	rs11601122
0.0118	0.0018	1.79E-10	3,035,670	secondary	N/A
0.0238	0.0032	2.22E-13	2,961,340	primary	-
-0.0094	0.0011	8.69E-17	3,037,430	primary	-
0.0167	0.0013	2.00E-40	3,023,310	primary	-
-0.0082	0.0011	2.89E-14	3,037,470	primary	-
0.0088	0.0011	3.75E-16	3,037,430	primary	-
0.0164	0.0017	1.20E-21	3,037,420	primary	-
0.0099	0.0014	8.55E-13	3,037,470	primary	-
-0.0076	0.0011	8.69E-12	3,035,750	primary	-
0.0085	0.0011	8.64E-16	3,037,440	primary	-

0.0070	0.0011	1.05E-10	3,035,210	primary	-
-0.0093	0.0014	9.75E-11	3,037,480	primary	-
0.0082	0.0011	2.84E-13	3,035,760	primary	-
0.0073	0.0011	4.22E-12	3,033,350	primary	-
-0.0115	0.0011	5.86E-25	3,037,440	primary	-
0.0071	0.0012	2.79E-09	3,035,750	primary	-
-0.0079	0.0014	2.22E-08	3,037,480	primary	-
-0.0092	0.0011	5.89E-18	3,037,470	primary	-
-0.0107	0.0011	7.66E-21	3,037,440	primary	-
-0.0072	0.0011	6.16E-11	3,037,450	primary	-
-0.0068	0.0011	1.24E-09	3,037,460	primary	-
0.0110	0.0011	2.06E-25	3,037,420	primary	-
0.0097	0.0015	6.10E-11	3,035,040	primary	-
-0.0092	0.0014	2.47E-11	3,035,740	primary	-
0.0075	0.0011	1.38E-12	3,036,560	primary	-
0.0077	0.0012	1.38E-10	2,930,090	primary	-
0.0152	0.0022	1.74E-12	752,690	primary	-
0.0109	0.0011	1.25E-23	3,037,410	primary	-
0.0062	0.0011	3.76E-09	3,035,790	primary	-
0.0062	0.0011	1.48E-08	3,037,500	primary	-
0.0077	0.0012	3.32E-11	3,037,450	primary	-
0.0090	0.0011	4.69E-17	3,037,430	primary	-
-0.0080	0.0011	3.71E-13	3,034,200	primary	-
-0.0084	0.0011	1.31E-13	3,037,480	primary	-
0.0069	0.0011	1.99E-10	3,037,490	primary	-
-0.0102	0.0016	1.01E-10	3,037,480	primary	-
-0.0123	0.0013	1.10E-21	3,037,440	primary	-
-0.0081	0.0012	4.85E-12	3,035,730	primary	rs1939800
0.0066	0.0012	1.26E-08	3,035,480	secondary	N/A
-0.0074	0.0011	2.71E-12	3,037,450	primary	-
-0.0111	0.0011	5.38E-22	3,037,450	primary	-
0.0059	0.0011	2.95E-08	3,034,260	primary	-
-0.0099	0.0014	8.37E-13	3,037,490	primary	-
-0.0131	0.0018	3.57E-13	3,014,960	secondary	N/A
-0.0154	0.0012	7.11E-41	3,037,390	primary	rs61899382
-0.0130	0.0016	1.80E-15	3,037,460	primary	-
-0.0109	0.0011	1.65E-24	3,033,290	primary	-
0.0097	0.0012	1.40E-16	3,037,460	primary	-
0.0067	0.0011	5.87E-10	3,016,190	primary	-
-0.0123	0.0011	2.99E-31	3,035,720	primary	-
0.0093	0.0012	4.62E-15	3,037,450	primary	-
0.0070	0.0011	3.81E-11	3,037,490	primary	-
0.0075	0.0011	3.05E-12	3,030,380	primary	-
0.0095	0.0011	4.35E-19	3,023,170	primary	-
-0.0081	0.0012	8.99E-11	3,037,470	primary	-
-0.0063	0.0011	1.09E-08	3,019,920	primary	-
0.0141	0.0022	8.67E-11	3,019,880	primary	-
-0.0077	0.0011	1.69E-12	3,037,460	primary	-

-0.0100	0.0011	5.09E-21	3,037,440	primary	-
0.0065	0.0011	2.16E-09	3,037,450	primary	-
-0.0202	0.0033	8.91E-10	2,930,550	primary	-
-0.0230	0.0040	1.06E-08	3,009,730	primary	-
-0.0089	0.0012	4.80E-14	3,021,650	primary	-
-0.0109	0.0011	2.16E-24	3,035,670	primary	-
0.0129	0.0011	4.51E-31	3,024,710	primary	-
0.0069	0.0012	1.38E-08	3,035,760	primary	-
0.0065	0.0011	6.61E-10	3,037,460	primary	-
0.0073	0.0011	8.13E-11	3,037,450	primary	-
-0.0073	0.0011	5.26E-12	3,024,350	primary	-
-0.0132	0.0021	4.84E-10	2,999,180	primary	-
0.0091	0.0014	1.97E-11	3,027,040	primary	-
-0.0064	0.0011	1.82E-09	3,035,230	primary	-
0.0088	0.0012	1.68E-13	3,035,040	primary	-
0.0077	0.0012	2.01E-11	3,036,930	primary	-
-0.0063	0.0011	7.64E-09	3,033,110	primary	-
-0.0086	0.0011	2.75E-15	3,037,450	primary	-
0.0094	0.0011	4.07E-18	3,035,760	primary	-
-0.0094	0.0013	3.47E-13	3,035,030	primary	-
0.0069	0.0011	6.70E-11	3,024,380	primary	-
0.0081	0.0011	7.48E-14	3,023,240	primary	-
0.0109	0.0011	8.36E-23	3,037,470	primary	-
-0.0073	0.0011	3.88E-11	3,037,490	primary	-
-0.0075	0.0012	2.27E-10	3,037,460	primary	-
0.0072	0.0011	2.70E-11	3,035,720	primary	-
0.0096	0.0012	8.39E-15	3,037,460	primary	-
-0.0166	0.0014	2.86E-33	3,014,400	primary	-
0.0085	0.0011	3.83E-14	3,036,940	primary	-
0.0117	0.0015	6.25E-15	3,036,630	primary	-
0.0117	0.0011	1.38E-28	3,031,590	primary	-
0.0082	0.0013	5.88E-10	3,020,760	primary	-
0.0119	0.0016	2.80E-14	3,037,430	primary	-
0.0178	0.0024	1.65E-13	3,035,840	primary	-
-0.0071	0.0012	1.01E-08	3,028,390	primary	-
0.0081	0.0014	3.12E-09	3,025,460	primary	-
-0.0148	0.0025	4.66E-09	2,998,440	primary	-
-0.0066	0.0011	1.20E-09	3,023,200	primary	-
0.0068	0.0011	1.46E-10	3,020,790	primary	-
-0.0107	0.0017	6.20E-10	3,029,770	primary	-
0.0062	0.0011	3.38E-08	3,035,790	primary	-
0.0158	0.0028	1.01E-08	2,984,960	primary	-
-0.0094	0.0014	4.88E-12	3,037,480	primary	-
-0.0177	0.0020	1.67E-19	3,035,720	primary	-
-0.0088	0.0011	5.63E-17	3,033,310	primary	-
0.0162	0.0017	1.60E-21	3,037,430	primary	-
-0.0066	0.0011	5.74E-10	3,037,110	primary	-
0.0089	0.0014	5.02E-11	3,034,070	primary	-

0.0078	0.0011	4.65E-13	3,037,460	primary	-
-0.0069	0.0011	6.88E-11	3,034,190	primary	-
0.0120	0.0011	5.60E-30	3,037,400	primary	-
-0.0099	0.0011	7.56E-19	3,035,700	primary	-
-0.0078	0.0012	5.55E-10	3,036,940	primary	-
-0.0114	0.0011	4.73E-27	3,037,380	primary	-
-0.0072	0.0011	2.73E-11	3,020,800	primary	-
0.0061	0.0011	1.51E-08	3,037,520	primary	-
-0.0101	0.0014	4.76E-13	3,037,450	primary	-
-0.0076	0.0011	6.02E-12	3,037,500	primary	-
0.0204	0.0032	1.45E-10	2,812,030	primary	-
0.0059	0.0011	2.26E-08	3,021,500	primary	-
0.0108	0.0011	1.01E-23	3,037,420	primary	-
-0.0171	0.0018	8.61E-21	3,000,830	primary	rs10770968
0.0114	0.0018	3.13E-10	3,037,490	secondary	N/A
-0.0115	0.0015	7.08E-14	3,007,730	primary	-
0.0079	0.0012	1.39E-10	3,034,210	primary	-
-0.0196	0.0027	1.81E-13	3,036,530	primary	-
0.0108	0.0018	1.62E-09	3,035,010	primary	-
-0.0081	0.0012	3.46E-11	3,000,830	primary	-
-0.0114	0.0011	2.06E-25	3,037,400	primary	-
0.0112	0.0013	1.87E-17	3,037,440	primary	-
-0.0094	0.0013	2.68E-13	3,037,450	primary	-
0.0243	0.0042	4.65E-09	2,912,640	primary	-
-0.0080	0.0014	2.43E-08	3,037,500	primary	-
-0.0102	0.0013	2.33E-15	3,037,440	primary	-
0.0070	0.0011	4.68E-11	3,037,490	primary	-
-0.0082	0.0011	8.07E-15	3,037,430	primary	-
0.0099	0.0011	7.65E-20	3,035,740	primary	-
0.0483	0.0085	1.46E-08	2,713,320	primary	-
0.0135	0.0011	1.23E-33	3,035,410	primary	-
-0.0259	0.0030	1.28E-17	2,988,230	primary	-
-0.0127	0.0014	3.00E-20	3,024,880	primary	-
-0.0067	0.0011	1.87E-09	3,035,770	primary	-
-0.0121	0.0014	6.82E-18	3,024,910	primary	-
0.0108	0.0011	1.65E-23	3,034,170	primary	-
0.0083	0.0014	4.38E-09	3,005,060	primary	-
-0.0096	0.0013	1.64E-13	3,016,490	secondary	N/A
0.0127	0.0014	2.93E-20	3,037,230	primary	rs11611029
0.0095	0.0012	9.83E-15	2,579,110	primary	-
-0.0093	0.0011	1.62E-16	3,035,720	primary	-
-0.0082	0.0012	2.01E-11	3,035,540	primary	-
0.0059	0.0011	3.60E-08	3,037,490	primary	-
-0.0129	0.0014	1.58E-20	3,037,420	primary	-
0.0093	0.0011	5.57E-16	3,023,210	primary	-
-0.0064	0.0011	1.94E-08	3,023,210	primary	-
-0.0067	0.0011	2.53E-10	3,024,010	primary	-
0.0065	0.0011	1.58E-09	3,037,470	primary	-

-0.0101	0.0016	8.56E-11	3,037,480	primary	-
-0.0080	0.0011	1.44E-12	3,037,510	primary	-
-0.0069	0.0011	2.57E-10	3,037,480	primary	-
-0.0097	0.0016	4.48E-09	3,037,090	primary	-
-0.0070	0.0011	3.69E-11	3,037,490	primary	-
-0.0080	0.0011	7.22E-14	3,030,080	primary	-
0.0153	0.0015	6.95E-25	3,037,420	primary	-
-0.0062	0.0011	5.53E-09	3,023,220	primary	-
0.0146	0.0011	4.12E-42	3,035,090	primary	-
-0.0225	0.0034	2.74E-11	2,272,180	primary	-
-0.0114	0.0020	1.96E-08	3,034,850	primary	-
0.0113	0.0011	1.29E-26	3,036,880	primary	-
-0.0075	0.0011	1.72E-11	3,037,480	primary	-
-0.0067	0.0011	3.68E-10	3,037,490	primary	-
0.0079	0.0012	1.00E-10	3,036,910	primary	-
-0.0071	0.0012	1.28E-09	3,011,130	primary	-
-0.0119	0.0021	1.14E-08	3,037,480	primary	-
0.0084	0.0011	1.33E-15	3,037,470	primary	-
0.0067	0.0012	1.47E-08	3,035,760	primary	-
-0.0110	0.0015	1.11E-12	3,037,480	primary	-
0.0099	0.0014	3.31E-12	3,035,730	primary	-
0.0072	0.0011	2.27E-10	3,037,480	primary	-
-0.0117	0.0018	2.06E-10	3,037,460	primary	-
-0.0074	0.0012	4.44E-10	3,037,460	primary	-
-0.0105	0.0013	1.93E-15	3,037,440	primary	-
-0.0080	0.0013	1.84E-10	3,037,460	primary	-
-0.0260	0.0036	3.41E-13	3,018,240	primary	-
0.0116	0.0014	3.48E-16	3,035,830	primary	-
0.0067	0.0011	8.59E-10	3,037,450	primary	-
0.0062	0.0011	1.30E-08	3,035,750	primary	-
-0.0096	0.0014	3.10E-12	3,037,450	primary	-
0.0120	0.0012	8.84E-22	3,037,400	primary	-
0.0121	0.0015	1.37E-16	2,272,160	primary	-
-0.0078	0.0011	1.38E-12	3,037,440	primary	-
-0.0083	0.0011	3.54E-15	3,037,480	primary	-
-0.0077	0.0011	2.34E-13	3,037,440	primary	-
-0.0101	0.0012	1.66E-17	2,962,170	primary	-
0.0135	0.0019	2.39E-12	3,012,120	primary	-
-0.0130	0.0018	8.76E-13	3,036,570	primary	-
0.0117	0.0015	2.53E-15	3,029,430	primary	-
0.0106	0.0018	4.84E-09	3,024,930	primary	-
0.0074	0.0012	2.02E-09	3,035,740	primary	-
-0.0073	0.0012	6.69E-10	3,035,770	primary	-
0.0080	0.0011	1.08E-12	3,037,440	primary	-
-0.0183	0.0026	2.29E-12	3,030,510	secondary	N/A
0.0145	0.0014	2.82E-24	3,028,680	primary	rs149308817
-0.0067	0.0011	5.83E-10	3,037,440	primary	-
-0.0119	0.0011	6.61E-28	3,037,430	primary	-

-0.0077	0.0011	1.02E-12	3,028,500	primary	-
0.0190	0.0029	2.44E-11	2,272,180	primary	-
-0.0152	0.0027	1.30E-08	3,033,760	primary	-
-0.0126	0.0012	2.42E-26	3,037,420	primary	-
0.0192	0.0013	5.91E-49	3,034,880	primary	-
-0.0133	0.0016	3.90E-16	2,981,320	primary	rs12426133
-0.0086	0.0014	3.82E-10	3,034,600	secondary	N/A
0.0077	0.0012	7.54E-11	3,037,500	primary	-
0.0073	0.0012	2.50E-10	3,026,710	primary	-
-0.0068	0.0011	1.01E-10	3,022,990	primary	-
-0.0083	0.0011	2.48E-15	3,037,450	primary	-
-0.0085	0.0011	1.07E-15	3,034,920	primary	-
-0.0090	0.0014	3.99E-11	2,977,710	primary	-
-0.0084	0.0012	3.86E-13	3,037,470	primary	-
0.0089	0.0014	4.07E-10	3,037,480	primary	-
0.0104	0.0018	1.26E-08	3,037,480	primary	-
-0.0083	0.0011	2.98E-15	3,034,500	primary	-
0.0088	0.0011	8.92E-17	3,037,450	primary	-
-0.0065	0.0012	3.86E-08	3,035,760	primary	-
-0.0123	0.0013	8.02E-21	3,037,390	primary	-
-0.0073	0.0011	3.39E-11	3,019,140	primary	-
0.0069	0.0011	5.44E-10	3,036,660	primary	-
-0.0077	0.0012	1.50E-10	3,036,660	primary	-
0.0113	0.0015	2.35E-13	3,036,670	primary	-
0.0075	0.0011	2.19E-12	3,034,980	primary	-
-0.0145	0.0016	8.50E-20	3,036,630	primary	-
0.0080	0.0011	6.31E-14	3,036,660	primary	-
0.0071	0.0011	1.81E-11	3,034,420	primary	-
0.0061	0.0011	4.81E-08	3,034,980	primary	-
0.0115	0.0021	2.94E-08	2,999,300	primary	-
0.0077	0.0010	2.36E-13	3,036,630	primary	-
0.0113	0.0018	2.17E-10	3,034,410	primary	-
-0.0061	0.0011	1.78E-08	3,036,660	primary	-
0.0090	0.0011	2.20E-15	3,036,640	primary	-
-0.0067	0.0011	6.20E-10	3,036,660	primary	-
0.0117	0.0016	2.99E-13	3,036,630	primary	-
-0.0104	0.0012	3.19E-18	3,036,660	primary	-
-0.0077	0.0011	4.36E-12	3,036,620	primary	-
-0.0073	0.0012	1.43E-09	3,036,660	primary	-
0.0249	0.0012	1.89E-95	3,036,290	primary	-
-0.0065	0.0011	1.37E-09	3,036,130	primary	-
0.0078	0.0011	3.18E-12	3,036,680	primary	-
0.0087	0.0013	1.72E-11	3,029,570	primary	rs7997690
0.0065	0.0012	2.42E-08	3,036,660	secondary	N/A
0.0098	0.0013	1.30E-13	3,036,650	primary	-
0.0109	0.0012	2.50E-21	3,036,640	primary	-
-0.0073	0.0011	9.16E-12	3,032,540	primary	-
0.0325	0.0055	2.58E-09	2,860,840	primary	-

0.0085	0.0014	4.83E-10	3,036,660	primary	-
0.0100	0.0011	6.27E-21	3,036,610	primary	-
-0.0098	0.0015	4.73E-11	3,036,610	primary	-
0.0065	0.0011	1.26E-09	3,036,150	primary	-
-0.0078	0.0011	5.44E-13	3,036,640	primary	-
-0.0086	0.0013	1.01E-11	3,036,660	primary	-
0.0098	0.0011	5.51E-20	3,034,340	primary	-
-0.0089	0.0011	5.81E-17	3,036,090	primary	-
-0.0065	0.0011	5.65E-10	3,036,660	primary	-
-0.0061	0.0011	2.35E-08	3,036,670	primary	-
-0.0086	0.0013	1.13E-10	2,997,600	primary	-
-0.0079	0.0011	9.79E-14	3,034,960	primary	-
0.0065	0.0011	2.72E-09	3,034,940	primary	-
0.0084	0.0014	6.96E-10	3,036,650	primary	-
-0.0101	0.0011	1.84E-20	3,036,610	primary	-
0.0083	0.0013	2.69E-10	3,034,980	primary	-
-0.0122	0.0014	2.59E-17	3,036,630	primary	-
0.0071	0.0012	5.64E-10	3,036,150	primary	-
-0.0062	0.0011	6.12E-09	3,036,170	primary	-
0.0107	0.0013	3.02E-16	3,036,660	primary	-
0.0092	0.0012	1.13E-15	3,036,640	primary	-
0.0113	0.0018	2.29E-10	3,022,370	primary	-
0.0092	0.0013	3.08E-13	3,034,910	primary	-
-0.0077	0.0011	8.36E-12	3,036,670	primary	-
0.0065	0.0011	7.63E-09	3,036,680	primary	-
0.0088	0.0015	6.70E-09	3,036,660	primary	-
-0.0064	0.0011	8.94E-09	3,034,300	primary	-
0.0096	0.0017	1.05E-08	3,036,670	primary	-
-0.0153	0.0019	1.58E-15	3,036,640	primary	-
0.0177	0.0022	7.47E-16	3,029,580	primary	-
-0.0136	0.0025	3.80E-08	3,034,170	primary	-
0.0076	0.0011	7.94E-13	3,036,660	primary	-
-0.0100	0.0015	9.41E-12	3,036,660	primary	-
-0.0080	0.0012	1.08E-11	2,713,290	primary	-
0.0089	0.0012	1.20E-13	3,036,560	secondary	N/A
0.0092	0.0012	1.88E-14	3,034,850	primary	rs12261
0.0089	0.0011	1.02E-16	3,036,080	primary	-
-0.0071	0.0012	6.26E-09	3,024,110	primary	-
0.0061	0.0011	8.01E-09	3,036,700	primary	-
0.0081	0.0012	3.81E-12	3,036,670	primary	-
0.0233	0.0031	2.64E-14	3,027,090	primary	-
-0.0068	0.0011	3.24E-09	3,036,660	primary	-
-0.0087	0.0015	2.58E-09	3,034,240	primary	-
-0.0092	0.0011	8.01E-16	3,034,410	primary	-
-0.0122	0.0018	2.57E-11	3,019,150	primary	-
0.0065	0.0010	6.53E-10	3,034,410	primary	-
0.0115	0.0014	3.24E-16	3,036,660	primary	-
0.0064	0.0011	3.96E-09	3,010,970	primary	-

0.0067	0.0011	2.14E-10	3,034,100	primary	-
0.0072	0.0012	6.32E-09	3,036,670	primary	-
-0.0131	0.0013	1.09E-22	3,037,430	primary	-
-0.0117	0.0011	2.10E-27	3,037,410	primary	-
-0.0079	0.0013	4.25E-10	3,027,470	primary	-
-0.0123	0.0015	2.16E-15	3,010,700	primary	-
0.0071	0.0011	1.19E-10	3,033,280	primary	-
0.0075	0.0011	1.76E-12	3,016,600	primary	-
0.0156	0.0012	1.34E-36	3,037,360	primary	-
0.0090	0.0013	7.69E-12	3,037,450	primary	-
0.0447	0.0065	6.04E-12	2,909,290	primary	-
0.0169	0.0014	4.25E-35	3,037,270	primary	-
-0.0099	0.0017	3.65E-09	3,037,370	secondary	N/A
-0.0147	0.0020	1.04E-13	2,972,770	primary	rs72671456
0.0083	0.0011	1.87E-13	3,036,670	primary	-
0.0106	0.0011	2.87E-22	3,000,810	primary	-
-0.0090	0.0012	4.06E-15	3,035,710	primary	-
0.0099	0.0012	7.92E-18	3,033,250	primary	-
-0.0098	0.0016	1.02E-09	3,020,810	primary	-
-0.0092	0.0015	3.23E-10	3,035,060	primary	-
-0.0078	0.0012	2.30E-11	3,037,470	primary	-
-0.0125	0.0011	1.97E-32	3,031,500	primary	-
-0.0067	0.0012	2.29E-08	3,034,210	primary	-
0.0087	0.0011	3.59E-16	3,037,440	primary	-
-0.0066	0.0011	1.39E-09	3,033,930	primary	-
0.0230	0.0026	4.98E-19	3,003,330	primary	-
0.0079	0.0014	7.82E-09	3,037,450	primary	-
0.0113	0.0013	2.40E-19	3,037,420	primary	-
-0.0104	0.0011	7.29E-23	3,036,870	primary	-
-0.0064	0.0011	1.73E-09	3,037,490	primary	-
0.0106	0.0017	7.25E-10	3,037,460	primary	-
-0.0125	0.0018	3.47E-12	3,030,920	primary	-
0.0061	0.0011	3.64E-08	3,037,480	primary	-
0.0063	0.0011	2.97E-09	3,037,440	primary	-
0.0176	0.0020	1.39E-18	3,037,400	primary	-
0.0188	0.0026	1.16E-12	3,036,910	primary	-
0.0194	0.0024	7.78E-16	3,025,200	primary	-
0.0064	0.0011	9.68E-10	3,032,470	primary	-
0.0088	0.0011	1.02E-16	3,031,530	primary	-
-0.0079	0.0011	3.21E-12	3,037,450	primary	-
-0.0120	0.0019	3.17E-10	3,037,480	primary	-
-0.0098	0.0011	1.97E-17	3,037,430	primary	-
-0.0068	0.0011	6.59E-10	3,035,740	primary	-
-0.0094	0.0012	9.48E-16	3,037,410	primary	-
-0.0066	0.0012	1.41E-08	3,037,460	primary	-
0.0182	0.0026	6.27E-12	3,037,150	primary	-
0.0129	0.0022	2.67E-09	3,037,470	primary	-
-0.0073	0.0012	5.50E-10	3,037,410	secondary	N/A

0.0106	0.0012	9.55E-19	3,035,650	primary	rs7140680
-0.0067	0.0012	1.78E-08	3,024,430	primary	-
0.0110	0.0018	1.34E-09	3,037,460	primary	-
0.0071	0.0011	6.12E-11	3,037,450	primary	-
-0.0099	0.0012	3.11E-16	3,037,450	primary	-
-0.0102	0.0018	1.64E-08	3,000,850	primary	-
0.0085	0.0014	5.77E-10	3,037,450	primary	-
0.0075	0.0012	6.81E-11	3,037,460	primary	-
-0.0085	0.0012	7.87E-13	3,037,440	primary	-
-0.0096	0.0011	1.85E-17	3,037,420	primary	-
0.0079	0.0011	1.09E-13	3,037,420	primary	-
-0.0213	0.0031	6.54E-12	2,989,290	primary	-
-0.0105	0.0011	3.13E-21	3,019,900	primary	-
-0.0066	0.0011	1.27E-09	3,035,790	primary	-
0.0093	0.0015	1.33E-09	3,037,480	primary	-
0.0074	0.0011	3.28E-12	3,035,750	primary	-
0.0089	0.0011	4.81E-17	3,035,770	primary	-
0.0060	0.0011	1.28E-08	3,035,200	primary	-
0.0078	0.0011	3.79E-13	3,035,730	primary	-
-0.0097	0.0013	2.42E-13	3,037,400	primary	-
0.0099	0.0013	7.79E-15	3,037,430	primary	-
0.0070	0.0012	3.66E-09	3,037,450	primary	-
-0.0097	0.0011	2.30E-19	3,015,870	primary	-
0.0071	0.0011	2.96E-11	3,037,490	primary	-
-0.0076	0.0011	6.25E-13	3,037,430	primary	-
-0.0075	0.0011	7.19E-13	3,037,480	primary	-
0.0094	0.0012	2.61E-14	2,998,380	primary	-
-0.0059	0.0011	1.91E-08	3,035,750	primary	-
0.0064	0.0011	1.36E-09	3,029,480	primary	-
-0.0085	0.0011	5.83E-15	3,036,890	primary	-
0.0065	0.0011	7.92E-10	3,035,030	primary	-
-0.0160	0.0018	9.87E-19	3,037,420	primary	-
0.0096	0.0013	8.62E-14	3,034,980	primary	-
-0.0082	0.0014	1.50E-09	3,035,750	primary	-
0.0081	0.0014	5.55E-09	3,035,780	primary	-
-0.0101	0.0011	2.64E-21	3,029,950	primary	-
-0.0094	0.0011	2.36E-16	3,037,460	primary	rs1957514
0.0069	0.0011	7.94E-10	3,013,700	secondary	N/A
0.0061	0.0011	9.96E-09	3,030,560	primary	-
-0.0075	0.0013	2.64E-09	3,012,350	primary	-
-0.0075	0.0011	1.02E-12	3,009,450	primary	-
-0.0069	0.0012	3.28E-09	3,028,640	primary	-
-0.0086	0.0012	8.03E-13	3,012,960	primary	-
0.0084	0.0014	1.95E-09	3,035,030	primary	-
-0.0171	0.0031	2.37E-08	2,982,140	primary	-
-0.0075	0.0012	1.11E-09	3,030,050	primary	-
-0.0073	0.0013	9.75E-09	3,024,340	primary	-
-0.0080	0.0011	2.20E-14	3,037,450	primary	-

0.0084	0.0011	9.99E-16	3,037,450	primary	-
0.0094	0.0011	6.08E-19	3,037,470	primary	-
-0.0130	0.0023	2.60E-08	2,955,410	primary	-
-0.0081	0.0011	9.48E-14	2,962,460	primary	-
0.0080	0.0011	3.76E-14	3,036,920	primary	-
-0.0080	0.0012	9.32E-11	3,037,490	primary	-
-0.0079	0.0014	5.85E-09	3,033,130	primary	-
0.0101	0.0012	4.77E-18	3,034,360	primary	-
-0.0116	0.0013	2.65E-18	3,034,210	primary	-
-0.0079	0.0014	3.19E-08	3,020,720	primary	-
-0.0100	0.0015	4.55E-12	3,036,650	primary	-
0.0092	0.0015	4.40E-10	3,036,630	primary	-
-0.0075	0.0013	3.32E-09	3,036,640	primary	-
0.0065	0.0012	1.93E-08	2,991,970	primary	-
-0.0087	0.0012	7.85E-14	3,036,640	secondary	N/A
-0.0084	0.0014	1.92E-09	3,036,670	secondary	N/A
0.0155	0.0017	6.58E-21	3,036,580	primary	rs2860049,rs489692
0.0083	0.0011	1.98E-14	3,036,640	primary	-
0.0279	0.0049	1.18E-08	2,928,920	primary	-
0.0130	0.0017	1.78E-14	3,034,950	primary	-
-0.0086	0.0012	1.21E-12	3,036,640	primary	-
0.0064	0.0010	1.25E-09	3,036,670	primary	-
-0.0069	0.0011	2.06E-10	3,034,970	primary	-
-0.0092	0.0011	3.17E-18	3,034,350	primary	-
0.0199	0.0030	5.81E-11	3,035,400	primary	-
0.0090	0.0011	6.92E-17	3,036,580	primary	-
0.0123	0.0020	8.40E-10	3,024,120	primary	-
-0.0080	0.0010	2.16E-14	3,034,910	primary	-
-0.0939	0.0153	8.49E-10	2,748,430	primary	-
0.0169	0.0014	2.38E-35	3,018,340	primary	-
-0.0157	0.0020	1.59E-15	3,036,630	primary	-
0.0103	0.0015	2.32E-12	3,036,680	primary	-
0.0094	0.0011	1.39E-18	3,012,090	primary	-
-0.0089	0.0012	7.49E-14	3,036,680	primary	-
-0.0109	0.0014	5.91E-15	3,026,210	primary	-
0.0239	0.0041	8.16E-09	2,897,470	primary	-
0.0105	0.0011	7.66E-21	2,999,430	primary	-
-0.0262	0.0037	2.02E-12	3,033,220	primary	-
-0.0076	0.0011	1.22E-11	3,036,690	primary	-
0.0146	0.0016	3.41E-20	3,036,640	primary	-
-0.0102	0.0017	5.73E-09	3,036,660	primary	-
0.0074	0.0011	7.18E-11	3,036,650	primary	-
-0.0090	0.0012	5.26E-14	2,993,030	primary	-
0.0118	0.0011	8.91E-29	3,032,330	primary	-
0.0065	0.0011	1.42E-09	3,036,670	primary	-
-0.0090	0.0011	4.13E-16	3,036,670	primary	-
0.0061	0.0011	6.16E-09	3,033,000	primary	-
-0.0066	0.0011	3.45E-10	3,034,690	primary	-

-0.0081	0.0011	4.16E-13	3,034,700	primary	-
0.0077	0.0014	2.10E-08	3,033,010	primary	-
-0.0072	0.0011	1.26E-11	2,997,560	primary	-
-0.0086	0.0011	1.15E-15	3,032,960	primary	-
-0.0106	0.0018	2.45E-09	3,033,830	primary	-
0.0066	0.0011	2.88E-10	3,033,020	primary	-
0.0121	0.0021	6.29E-09	3,034,360	primary	-
0.0141	0.0015	2.85E-22	3,034,700	primary	-
0.0076	0.0011	2.49E-11	3,034,710	primary	-
-0.0114	0.0017	1.58E-11	3,033,020	primary	-
0.0066	0.0011	4.71E-10	3,034,730	primary	-
0.0115	0.0013	2.21E-18	2,993,260	primary	-
-0.0071	0.0011	4.06E-10	3,032,310	primary	-
0.0066	0.0011	5.13E-10	3,027,310	primary	-
-0.0205	0.0026	3.53E-15	2,970,500	primary	-
0.0067	0.0011	8.07E-10	3,016,520	primary	-
-0.0066	0.0011	2.03E-09	3,032,810	primary	-
0.0081	0.0012	1.61E-11	3,032,240	primary	-
0.0199	0.0013	7.91E-56	3,015,110	primary	-
-0.0084	0.0013	2.19E-11	3,018,560	primary	-
0.0072	0.0012	2.33E-09	3,008,010	primary	-
0.0112	0.0018	3.61E-10	2,913,960	primary	-
0.0095	0.0017	1.11E-08	3,020,250	primary	-
0.0095	0.0016	1.41E-09	3,021,330	primary	-
0.0105	0.0017	1.44E-09	2,976,890	primary	-
0.0075	0.0013	1.13E-08	3,021,620	primary	-
0.0102	0.0014	6.43E-14	3,037,420	primary	-
0.0101	0.0013	6.10E-16	3,035,760	primary	-
-0.0110	0.0017	5.60E-11	3,037,470	primary	-
-0.0064	0.0011	3.70E-09	3,023,200	primary	-
-0.0110	0.0017	3.41E-11	3,020,790	primary	-
-0.0103	0.0012	1.50E-18	3,035,710	primary	-
-0.0087	0.0015	3.53E-09	3,000,300	primary	-
0.0061	0.0011	1.59E-08	3,035,010	primary	-
0.0070	0.0011	1.08E-09	3,020,790	primary	-
-0.0067	0.0012	1.25E-08	3,037,480	primary	-
0.0066	0.0011	5.86E-09	3,035,750	primary	-
-0.0063	0.0011	2.04E-09	3,035,760	primary	-
0.0083	0.0011	1.81E-14	3,037,430	primary	-
0.0069	0.0011	6.39E-11	3,019,170	primary	-
0.0087	0.0015	5.63E-09	3,034,170	primary	-
-0.0067	0.0011	5.61E-10	3,023,210	primary	-
-0.0083	0.0011	4.83E-15	3,035,730	primary	-
0.0113	0.0016	3.94E-12	3,037,460	primary	-
0.0122	0.0019	4.03E-11	3,037,450	primary	rs1097730
-0.0068	0.0011	7.30E-10	3,037,420	secondary	N/A
-0.0151	0.0019	8.55E-16	3,020,240	primary	-
0.0118	0.0011	1.80E-28	3,037,410	primary	-

-0.0102	0.0011	1.96E-21	3,037,460	primary	-
-0.0108	0.0014	3.81E-14	3,035,750	primary	-
0.0079	0.0011	3.99E-12	3,037,460	primary	-
0.0073	0.0011	7.25E-12	3,037,450	primary	-
0.0111	0.0014	1.39E-15	3,022,510	primary	-
0.0092	0.0013	3.70E-13	3,035,070	primary	-
-0.0110	0.0015	2.69E-13	3,001,070	primary	-
-0.0077	0.0011	1.00E-11	3,037,450	primary	-
0.0117	0.0011	3.13E-28	3,015,620	primary	-
-0.0134	0.0023	3.47E-09	3,037,110	primary	-
-0.0078	0.0013	1.78E-09	3,020,820	primary	-
0.0112	0.0020	3.63E-08	3,037,490	primary	-
0.0116	0.0014	1.26E-16	3,026,050	primary	-
0.0067	0.0011	2.41E-10	3,031,270	primary	-
-0.0083	0.0012	2.57E-12	3,036,920	primary	-
-0.0166	0.0025	3.30E-11	2,959,850	primary	-
-0.0320	0.0050	1.76E-10	2,986,670	primary	-
0.0133	0.0013	5.34E-23	3,036,620	primary	-
-0.0089	0.0012	2.91E-13	3,030,840	primary	-
0.0093	0.0015	2.47E-10	3,019,680	primary	-
0.0067	0.0011	2.16E-10	3,032,490	primary	-
-0.0085	0.0011	2.01E-15	3,036,670	primary	-
0.0083	0.0012	8.93E-13	3,034,920	primary	-
-0.0143	0.0011	6.10E-39	3,036,540	primary	-
-0.0099	0.0011	6.48E-20	3,032,510	primary	-
-0.0116	0.0013	1.03E-18	3,036,650	primary	-
0.0088	0.0012	1.93E-13	3,036,660	primary	-
-0.0122	0.0013	5.17E-22	3,032,440	primary	-
0.0070	0.0012	7.06E-09	3,036,680	primary	-
0.0153	0.0013	8.99E-33	3,029,940	primary	-
0.0088	0.0012	2.05E-13	3,036,680	primary	-
0.0088	0.0012	9.68E-13	3,034,960	primary	-
0.0096	0.0011	8.78E-20	3,036,090	primary	-
-0.0079	0.0012	2.47E-10	3,024,120	primary	-
0.0071	0.0011	9.75E-11	3,005,390	primary	-
0.0157	0.0011	7.89E-43	3,022,290	primary	-
-0.0085	0.0011	3.63E-15	3,036,660	primary	-
0.0074	0.0011	5.56E-11	3,020,880	primary	-
-0.0085	0.0014	9.34E-10	3,036,680	primary	-
-0.0081	0.0013	1.35E-10	3,036,700	primary	-
0.0085	0.0012	3.93E-13	3,036,660	primary	-
-0.0082	0.0014	2.53E-09	2,903,620	primary	-
0.0215	0.0037	4.10E-09	2,840,460	primary	-
0.0110	0.0013	1.17E-17	3,036,640	primary	-
-0.0073	0.0011	7.30E-12	3,034,430	primary	-
-0.0072	0.0011	7.83E-12	3,036,670	primary	-
-0.0145	0.0017	1.87E-17	3,036,630	primary	-
-0.0139	0.0013	2.69E-27	3,034,880	primary	-

0.0063	0.0011	4.92E-09	3,034,930	primary	-
0.0139	0.0015	1.94E-21	2,983,940	primary	-
-0.0086	0.0012	2.58E-12	3,036,640	primary	-
-0.0076	0.0011	6.56E-12	3,021,870	primary	-
0.0067	0.0011	4.22E-09	3,036,700	primary	-
-0.0155	0.0018	1.14E-18	3,024,090	primary	-
-0.0079	0.0011	5.67E-12	3,036,690	primary	-
0.0134	0.0017	1.17E-15	3,036,660	primary	-
0.0606	0.0098	5.38E-10	2,713,310	primary	-
0.0082	0.0011	3.20E-14	3,036,120	primary	-
0.0134	0.0014	2.16E-21	3,024,090	primary	-
0.0133	0.0020	8.94E-11	3,036,140	primary	-
-0.0085	0.0013	5.36E-11	3,036,670	primary	-
0.0248	0.0036	8.39E-12	2,894,670	primary	-
-0.0076	0.0012	8.74E-11	3,034,970	primary	-
0.0146	0.0016	8.89E-20	3,036,680	primary	-
-0.0398	0.0071	1.80E-08	2,894,130	primary	-
0.0174	0.0014	9.42E-37	3,036,620	primary	-
-0.0151	0.0017	5.61E-18	3,036,620	primary	-
0.0092	0.0011	3.11E-18	3,019,980	primary	-
-0.0069	0.0011	8.96E-11	3,036,680	primary	-
-0.0204	0.0027	7.80E-14	2,272,170	primary	-
0.0084	0.0012	1.52E-12	3,036,680	primary	-
0.0076	0.0011	7.17E-13	3,036,620	primary	-
-0.0074	0.0011	2.24E-12	3,021,670	primary	-
0.0063	0.0011	2.14E-09	3,036,670	primary	-
0.0077	0.0014	1.27E-08	3,036,680	primary	-
0.0094	0.0011	5.26E-19	3,036,650	primary	-
0.0129	0.0018	2.72E-13	3,034,950	primary	-
-0.0129	0.0012	2.87E-28	3,036,620	primary	-
-0.0082	0.0014	1.84E-09	3,036,700	primary	-
-0.0093	0.0011	1.96E-17	3,036,660	primary	-
0.0101	0.0011	5.52E-21	3,034,950	primary	-
0.0091	0.0012	2.02E-13	3,036,670	primary	-
0.0071	0.0011	1.93E-11	3,029,690	primary	-
0.0173	0.0019	1.97E-19	2,995,020	primary	-
0.0071	0.0011	1.09E-10	3,026,260	primary	-
-0.0059	0.0011	2.16E-08	3,010,240	primary	-
-0.0077	0.0011	2.34E-12	2,976,290	primary	-
0.0106	0.0015	3.48E-13	3,023,970	primary	-
0.0094	0.0011	3.06E-18	3,020,410	primary	-
0.0075	0.0011	5.82E-12	3,000,840	primary	-
0.0101	0.0012	1.52E-16	3,037,480	primary	-
-0.0072	0.0011	1.48E-11	3,019,950	primary	-
-0.0114	0.0020	4.62E-09	3,018,560	primary	-
-0.0070	0.0011	2.97E-10	3,010,670	primary	-
-0.0073	0.0011	3.53E-11	3,037,460	primary	-
-0.0103	0.0014	5.72E-13	3,030,770	primary	-

-0.0072	0.0011	2.24E-11	3,014,170	primary	-
0.0064	0.0012	3.19E-08	3,035,070	primary	-
-0.0076	0.0011	4.95E-13	3,036,890	primary	-
-0.0070	0.0013	4.45E-08	3,035,740	primary	-
-0.0098	0.0011	1.21E-20	2,997,510	primary	-
0.0081	0.0011	2.03E-14	3,033,770	primary	-
-0.0093	0.0015	7.38E-10	2,947,820	primary	-
-0.0193	0.0033	5.57E-09	2,981,990	primary	-
0.0089	0.0012	8.66E-14	3,037,450	primary	-
-0.0147	0.0013	1.12E-27	3,024,040	primary	-
-0.0086	0.0011	7.49E-16	3,000,820	primary	-
-0.0093	0.0011	6.91E-19	3,026,150	primary	-
0.0071	0.0011	4.81E-11	3,020,000	primary	-
0.0092	0.0015	5.85E-10	3,035,020	primary	-
-0.0129	0.0013	8.67E-24	3,037,430	primary	-
-0.0092	0.0012	6.64E-15	3,037,430	primary	-
0.0116	0.0011	1.19E-27	3,035,760	primary	-
0.0085	0.0011	1.26E-14	3,037,430	primary	-
0.0087	0.0016	2.42E-08	3,030,820	primary	-
0.0115	0.0011	2.43E-24	3,035,960	primary	-
0.0064	0.0011	9.71E-09	3,037,460	primary	-
-0.0096	0.0011	4.62E-17	3,030,360	primary	-
-0.0065	0.0011	2.63E-09	2,999,150	primary	-
-0.0117	0.0014	4.43E-16	3,036,560	primary	-
-0.0090	0.0011	6.39E-16	3,037,470	primary	-
-0.0251	0.0014	2.53E-76	3,007,100	primary	-
0.0204	0.0015	7.91E-42	2,271,960	primary	-
-0.1357	0.0185	2.31E-13	2,272,230	primary	-
-0.0066	0.0011	1.24E-09	3,035,760	primary	-
-0.0099	0.0013	1.42E-14	3,037,490	primary	-
0.0079	0.0011	1.82E-13	3,027,330	primary	-
0.0063	0.0011	2.05E-08	3,019,930	primary	-
-0.0102	0.0011	6.50E-21	3,037,380	primary	-
0.0119	0.0011	4.59E-25	3,037,370	primary	-
0.0070	0.0012	2.50E-09	3,035,780	primary	-
-0.0066	0.0011	2.62E-09	3,012,010	primary	-
0.0082	0.0011	8.74E-15	3,034,980	primary	-
-0.0105	0.0015	1.02E-12	3,030,030	primary	-
0.0087	0.0014	1.30E-10	3,022,670	primary	-
-0.0068	0.0012	4.09E-09	3,035,750	primary	-
0.0123	0.0014	1.81E-17	3,037,440	primary	-
-0.0059	0.0011	3.18E-08	3,035,050	primary	-
0.0093	0.0013	2.82E-12	3,037,460	primary	-
-0.0063	0.0011	1.29E-08	3,037,450	primary	-
-0.0069	0.0011	4.76E-11	3,033,330	primary	-
0.0065	0.0011	5.71E-10	3,032,750	primary	-
-0.0083	0.0013	1.26E-10	2,995,810	primary	-
0.0072	0.0011	1.35E-11	3,020,790	primary	-

0.0069	0.0012	1.32E-08	2,992,500	primary	-
-0.0089	0.0012	1.83E-13	3,035,510	primary	-
0.0137	0.0024	6.31E-09	2,989,470	primary	-
-0.0077	0.0011	3.94E-13	3,020,100	primary	-
0.0132	0.0023	1.64E-08	651,483	primary	-
-0.0076	0.0011	1.02E-12	3,025,050	primary	-
-0.0095	0.0013	4.35E-14	3,028,540	primary	-
-0.0067	0.0011	1.74E-10	3,037,470	primary	-
0.0067	0.0012	3.15E-08	3,033,150	primary	-
-0.0063	0.0011	1.50E-08	3,032,790	primary	-
0.0087	0.0013	1.42E-11	3,035,750	primary	-
0.0066	0.0011	4.35E-10	3,037,470	primary	-
0.0086	0.0011	3.03E-16	3,035,780	primary	-
-0.0061	0.0011	1.44E-08	3,000,910	primary	-
0.0079	0.0011	1.42E-13	3,016,000	primary	-
0.0062	0.0011	3.42E-09	3,037,480	primary	-
-0.0126	0.0012	1.07E-27	3,037,390	primary	-
0.0104	0.0011	4.96E-21	3,037,390	primary	-
0.0077	0.0011	4.12E-12	3,023,240	primary	-
0.0066	0.0011	9.08E-10	3,037,490	primary	-
0.0066	0.0011	5.17E-10	3,037,490	primary	-
-0.0060	0.0011	2.37E-08	3,034,890	primary	-
-0.0118	0.0014	2.94E-16	3,024,910	primary	-
-0.0077	0.0013	8.72E-09	3,035,740	primary	-
-0.0117	0.0011	6.16E-25	3,035,660	primary	rs4800203
-0.0108	0.0016	3.85E-11	3,037,410	secondary	N/A
0.0064	0.0011	1.33E-09	3,035,210	primary	-
-0.0177	0.0032	4.54E-08	2,988,220	primary	-
0.0150	0.0012	4.50E-34	3,037,450	primary	rs7243759
-0.0084	0.0013	2.83E-10	3,037,480	secondary	N/A
-0.0087	0.0012	8.24E-13	3,037,470	primary	-
-0.0174	0.0031	2.42E-08	2,885,620	primary	-
-0.0067	0.0011	1.78E-09	3,037,460	primary	-
0.0090	0.0014	2.87E-11	3,037,450	primary	-
0.0071	0.0011	3.45E-11	3,037,500	primary	-
-0.0094	0.0011	8.18E-19	3,035,750	primary	-
0.0139	0.0020	3.40E-12	3,037,460	primary	-
0.0100	0.0011	4.18E-21	3,037,460	primary	-
0.0075	0.0011	4.03E-12	3,037,450	primary	-
-0.0102	0.0011	5.31E-22	3,037,430	primary	-
-0.0179	0.0011	8.02E-60	3,037,200	primary	-
-0.0088	0.0011	1.58E-15	3,037,450	primary	-
-0.0091	0.0013	1.86E-12	3,037,400	primary	-
0.0159	0.0014	1.87E-30	3,037,330	primary	-
-0.0114	0.0013	2.34E-19	3,037,410	primary	-
0.0120	0.0011	2.50E-28	3,037,390	primary	-
-0.0181	0.0024	1.05E-13	3,032,650	primary	-
-0.0085	0.0015	9.28E-09	2,272,190	primary	-

0.0090	0.0014	4.16E-10	3,037,470	primary	-
0.0177	0.0023	7.59E-15	3,031,580	primary	-
0.0092	0.0016	2.70E-09	3,037,470	primary	-
-0.0098	0.0012	1.62E-16	3,035,000	primary	-
0.0169	0.0029	7.01E-09	2,966,590	primary	-
-0.0102	0.0014	2.64E-13	3,037,460	primary	-
-0.0083	0.0014	3.15E-09	3,037,470	primary	-
-0.0156	0.0017	2.15E-20	3,033,660	primary	-
0.0156	0.0020	1.21E-14	3,037,460	primary	-
0.0111	0.0011	1.34E-25	3,037,400	primary	-
-0.0084	0.0011	1.79E-15	3,037,430	primary	-
-0.0077	0.0012	6.53E-11	3,037,450	primary	-
-0.0067	0.0011	3.09E-10	3,037,470	primary	-
0.0114	0.0020	6.93E-09	3,037,430	primary	-
0.0172	0.0011	2.68E-56	3,037,200	primary	-
-0.0070	0.0011	7.94E-10	3,036,920	primary	-
-0.0087	0.0011	7.79E-16	3,037,460	primary	-
0.0222	0.0016	4.36E-45	3,037,360	primary	-
-0.0365	0.0066	3.16E-08	2,930,260	primary	-
-0.0256	0.0032	1.01E-15	3,036,610	primary	-
0.0079	0.0011	1.28E-12	3,037,490	primary	-
-0.0067	0.0012	1.27E-08	3,017,000	primary	-
-0.0064	0.0011	2.41E-08	3,035,760	primary	-
0.0166	0.0028	4.33E-09	3,000,850	primary	-
-0.0080	0.0011	3.97E-14	3,024,910	primary	-
-0.0068	0.0011	1.07E-10	3,037,480	primary	-
-0.0085	0.0011	5.02E-16	3,037,440	primary	-
-0.0077	0.0012	2.56E-11	3,037,460	primary	-
0.0098	0.0012	5.51E-16	3,037,440	primary	-
-0.0068	0.0012	4.89E-09	3,037,460	primary	-
-0.0062	0.0011	1.66E-08	3,037,490	primary	-
-0.0164	0.0028	7.12E-09	3,009,500	primary	-
0.0068	0.0011	2.98E-10	3,037,450	primary	-
0.0067	0.0011	6.93E-10	3,014,590	primary	-
-0.0074	0.0012	2.47E-10	3,033,340	primary	-
-0.0069	0.0012	2.41E-08	3,035,750	primary	-
0.0107	0.0018	2.95E-09	2,920,520	primary	-
0.0083	0.0011	6.78E-14	3,036,880	primary	-
0.0065	0.0011	2.36E-09	3,019,110	primary	-
-0.0082	0.0011	5.74E-14	3,037,480	primary	-
0.0073	0.0011	4.44E-11	3,000,490	primary	-
0.0124	0.0012	4.22E-26	3,035,680	primary	-
-0.0137	0.0013	6.61E-27	3,036,520	primary	-
0.0120	0.0015	1.51E-15	3,031,410	primary	-
0.0116	0.0019	5.16E-10	2,787,460	primary	-
0.0107	0.0016	4.24E-11	3,011,220	primary	-
0.0111	0.0017	1.09E-10	3,004,070	primary	-
0.0062	0.0011	3.93E-08	3,014,680	primary	-

-0.0098	0.0016	2.21E-10	2,992,820	primary	-
-0.0069	0.0011	9.01E-10	3,031,100	primary	-
0.0060	0.0011	1.82E-08	3,032,230	primary	-
0.0250	0.0025	3.60E-23	2,859,740	primary	-
-0.0103	0.0011	1.44E-19	3,016,470	primary	-
-0.0098	0.0011	2.16E-18	3,034,150	primary	-
-0.0062	0.0011	8.71E-09	3,009,950	primary	-
0.0077	0.0013	2.34E-09	3,037,450	primary	-
-0.0083	0.0011	4.65E-15	3,035,730	primary	-
0.0070	0.0011	6.34E-10	3,037,440	primary	-
0.0123	0.0020	2.93E-10	2,995,520	primary	-
-0.0201	0.0024	9.07E-17	2,988,820	primary	-
-0.0091	0.0013	7.24E-12	2,872,180	primary	-
0.0073	0.0012	2.10E-09	3,000,420	primary	-
0.0069	0.0011	4.28E-11	3,027,510	primary	-
0.0107	0.0011	3.59E-21	3,031,300	primary	-
0.0065	0.0011	8.27E-10	3,015,600	primary	-
0.0063	0.0011	1.49E-08	3,037,480	primary	-
0.0135	0.0018	1.35E-13	3,015,710	primary	-
-0.0088	0.0014	7.89E-10	3,035,720	primary	-
-0.0134	0.0023	9.82E-09	2,981,760	primary	-
-0.0065	0.0011	1.24E-09	3,036,650	primary	-
-0.0100	0.0012	4.93E-18	3,032,450	primary	-
-0.0098	0.0015	3.47E-11	3,000,980	primary	-
-0.0066	0.0011	3.67E-09	3,000,830	primary	-
-0.0154	0.0015	3.17E-26	3,000,760	primary	-
0.0064	0.0012	3.29E-08	3,037,500	primary	-
0.0061	0.0011	1.91E-08	3,037,480	primary	-
0.0108	0.0013	6.68E-16	3,032,080	primary	-
-0.0085	0.0013	2.22E-10	3,002,090	primary	-
-0.0063	0.0011	3.72E-09	3,035,780	primary	-
-0.0076	0.0013	1.37E-08	3,018,330	primary	-
0.0074	0.0011	1.96E-12	3,029,740	primary	-
0.0063	0.0011	2.49E-09	3,019,100	primary	-
0.0075	0.0011	2.35E-11	3,002,650	primary	-
-0.0088	0.0015	3.74E-09	3,001,960	primary	-
0.0165	0.0030	4.10E-08	2,052,950	primary	-
-0.0098	0.0016	1.99E-09	3,008,360	primary	-
-0.0071	0.0011	2.60E-11	2,983,000	primary	-
-0.0093	0.0015	4.08E-10	3,004,040	primary	-
0.0066	0.0012	1.23E-08	2,884,030	primary	-
-0.0255	0.0033	2.41E-14	2,942,010	primary	-
-0.0083	0.0013	6.45E-10	3,018,230	primary	-
0.0073	0.0011	1.70E-11	3,035,750	primary	-
-0.0144	0.0015	2.36E-22	2,844,460	primary	-
0.0073	0.0011	3.31E-12	3,027,040	primary	-
0.0107	0.0018	4.92E-09	3,003,350	primary	-
-0.0109	0.0013	8.91E-17	2,995,610	primary	-

0.0113	0.0013	8.63E-18	3,029,360	primary	-
0.0074	0.0014	4.35E-08	3,029,040	primary	-
0.0075	0.0011	2.16E-12	3,037,430	primary	-
0.0261	0.0043	1.91E-09	2,844,730	primary	-
-0.0103	0.0014	1.21E-12	3,037,440	primary	-
0.0078	0.0011	3.07E-13	3,035,510	primary	-
-0.0138	0.0014	5.87E-24	3,035,150	primary	-
0.0102	0.0012	6.90E-18	2,972,400	primary	-
0.0155	0.0027	1.24E-08	2,787,970	primary	-
0.0075	0.0011	3.97E-11	3,035,800	primary	-
-0.0071	0.0011	1.73E-10	3,021,740	primary	-
0.0098	0.0012	3.72E-16	3,037,460	primary	-
-0.0081	0.0012	1.22E-11	3,037,490	primary	-
0.0116	0.0012	5.04E-23	3,037,420	primary	-
-0.0074	0.0011	4.81E-11	3,033,340	primary	-
0.0062	0.0011	2.52E-08	3,024,950	primary	-
0.0080	0.0012	1.80E-11	3,037,470	primary	-
0.0088	0.0011	1.96E-15	3,033,300	primary	-
-0.0112	0.0016	1.50E-12	3,037,470	primary	-
-0.0128	0.0018	3.23E-12	3,036,540	primary	-
-0.0190	0.0032	3.40E-09	2,208,350	primary	-
0.0068	0.0011	1.71E-10	3,037,450	primary	-
0.0339	0.0046	2.64E-13	2,999,380	primary	-
-0.0086	0.0011	2.93E-15	3,035,510	primary	-
0.0104	0.0019	3.96E-08	3,007,170	primary	-
-0.0080	0.0011	2.15E-13	3,037,450	primary	-
-0.0076	0.0014	2.67E-08	3,037,510	primary	-
-0.0068	0.0011	1.03E-10	3,024,450	primary	-
-0.0066	0.0011	4.68E-10	3,035,740	primary	-
0.0097	0.0013	8.63E-14	3,036,960	primary	-
-0.0072	0.0011	1.35E-11	3,035,530	primary	-
-0.0118	0.0011	6.51E-26	3,037,420	primary	-
-0.0221	0.0039	1.80E-08	2,937,700	primary	-
0.0091	0.0013	5.02E-13	3,023,250	primary	-
0.0184	0.0014	1.02E-39	3,029,170	primary	-
-0.0106	0.0014	2.71E-13	3,037,460	primary	-
0.0080	0.0011	2.49E-14	3,037,430	primary	-
0.0080	0.0012	3.30E-11	3,024,560	primary	-
-0.0072	0.0011	2.43E-11	3,035,730	primary	-
-0.0090	0.0016	1.47E-08	2,986,500	primary	-
0.0067	0.0011	2.52E-09	3,035,800	primary	-
-0.0150	0.0020	2.75E-14	3,030,920	primary	-
-0.0070	0.0011	3.14E-11	3,033,530	primary	-
0.0076	0.0011	9.11E-13	3,035,740	primary	-
0.0110	0.0019	4.39E-09	3,037,470	primary	-
0.0080	0.0013	2.13E-10	3,033,820	primary	-
0.0485	0.0087	2.56E-08	2,713,330	primary	-
0.0076	0.0012	5.27E-11	3,035,750	primary	-

-0.0096	0.0017	7.46E-09	3,037,490	secondary	N/A
-0.0229	0.0019	4.18E-33	3,037,360	primary	rs6660666
0.0125	0.0011	1.92E-29	2,996,620	primary	-
0.0126	0.0018	1.01E-11	3,025,840	primary	-
0.0132	0.0014	6.69E-22	3,037,230	secondary	N/A
-0.0171	0.0012	1.24E-43	3,037,220	primary	rs631248
-0.0123	0.0022	1.40E-08	2,991,560	primary	-
-0.0140	0.0011	2.18E-37	3,037,390	primary	-
-0.0104	0.0012	3.18E-19	3,037,430	primary	-
0.0222	0.0038	4.93E-09	2,972,180	primary	-
-0.0070	0.0011	3.95E-11	3,037,440	primary	-
-0.0717	0.0110	7.51E-11	2,901,680	primary	-
-0.0107	0.0011	3.19E-23	3,000,800	primary	-
0.0153	0.0027	1.47E-08	2,896,690	primary	-
0.0078	0.0011	1.25E-13	3,037,450	primary	-
-0.0079	0.0012	1.79E-11	3,037,490	primary	-
0.0106	0.0011	2.44E-23	3,037,430	primary	-
0.0070	0.0011	2.48E-10	3,019,930	primary	-
0.0073	0.0012	1.51E-09	3,035,750	primary	-
0.0107	0.0011	1.20E-22	3,037,430	primary	-
0.0164	0.0014	2.38E-31	3,034,940	primary	-
-0.0077	0.0011	5.14E-13	3,037,450	primary	-
0.0070	0.0011	2.87E-11	3,037,460	primary	-
0.0159	0.0026	1.17E-09	3,027,550	primary	-
0.0091	0.0015	3.54E-09	3,002,300	primary	-
-0.0135	0.0015	6.97E-19	3,033,290	primary	-
-0.0068	0.0011	1.32E-09	3,037,460	primary	-
-0.0119	0.0013	5.47E-19	3,037,460	primary	-
0.0248	0.0024	6.10E-26	3,033,660	primary	-
-0.0078	0.0012	1.54E-10	3,023,260	primary	-
-0.0177	0.0022	1.15E-15	3,022,190	primary	-
0.0083	0.0011	3.14E-14	3,037,510	primary	-
0.0069	0.0011	3.73E-10	3,030,070	primary	-
0.0187	0.0024	4.74E-15	3,036,530	primary	-
-0.0129	0.0017	1.26E-13	3,037,450	primary	-
-0.0077	0.0013	1.06E-09	3,037,460	primary	-
0.0126	0.0016	8.74E-15	3,016,100	primary	-
-0.0064	0.0011	2.30E-09	3,037,440	primary	-
0.0098	0.0011	2.59E-19	3,037,450	primary	-
0.0081	0.0011	1.45E-13	3,037,360	primary	-
0.0256	0.0019	8.33E-42	3,007,460	primary	-
-0.0188	0.0014	3.89E-44	3,037,260	primary	-
0.0093	0.0014	8.87E-12	3,023,250	secondary	N/A
-0.0146	0.0014	2.70E-26	3,037,440	primary	rs11210176
-0.0165	0.0027	6.45E-10	2,855,980	primary	-
0.0106	0.0011	3.95E-23	3,037,430	primary	-
-0.0083	0.0012	6.61E-12	3,000,860	primary	-
0.0323	0.0028	2.54E-31	3,026,360	primary	-

0.0602	0.0108	2.28E-08	2,802,470	primary	-
-0.0109	0.0014	2.90E-15	3,037,470	primary	-
0.0107	0.0011	2.02E-23	3,037,470	primary	-
0.0079	0.0011	2.98E-13	3,035,740	primary	-
0.0083	0.0011	1.60E-13	3,037,350	secondary	N/A
-0.0175	0.0018	2.10E-22	3,035,670	primary	rs6603950
0.0059	0.0011	2.80E-08	3,037,490	primary	-
-0.0105	0.0013	1.17E-15	3,035,750	primary	-
-0.0093	0.0013	2.05E-13	3,037,480	primary	-
-0.0132	0.0023	1.22E-08	3,037,480	primary	-
0.0102	0.0016	1.43E-10	3,037,470	primary	-
-0.0090	0.0012	1.29E-13	3,024,950	primary	-
-0.0083	0.0014	4.37E-09	2,990,840	primary	-
-0.0081	0.0011	2.34E-13	3,023,230	primary	-
-0.0099	0.0013	2.16E-14	3,024,930	primary	-
0.0083	0.0011	2.02E-13	3,035,740	primary	-
0.0104	0.0013	1.27E-16	3,020,800	primary	-
-0.0066	0.0011	8.99E-10	3,037,470	primary	-
-0.0070	0.0011	9.65E-11	3,037,470	primary	-
-0.0076	0.0012	1.95E-10	3,037,500	primary	-
-0.0094	0.0011	1.05E-17	3,035,710	primary	-
0.0212	0.0011	1.03E-88	3,035,480	primary	-
0.0115	0.0012	1.95E-22	3,037,380	primary	-
-0.0076	0.0013	9.79E-09	3,037,410	primary	-
-0.0104	0.0014	6.96E-13	3,037,470	primary	-
0.0091	0.0012	7.40E-14	3,035,750	primary	-
0.0112	0.0011	2.20E-24	3,036,870	primary	-
-0.0089	0.0011	7.89E-16	3,037,430	primary	-
0.0162	0.0022	5.37E-14	3,037,430	primary	-
-0.0140	0.0022	9.22E-11	3,037,480	primary	-
-0.0084	0.0013	2.29E-10	3,000,840	primary	-
0.0192	0.0026	1.90E-13	3,024,990	primary	-
0.0198	0.0015	4.01E-42	3,037,390	primary	-
-0.0121	0.0021	4.09E-09	3,010,030	primary	-
-0.0127	0.0011	1.90E-28	3,021,880	primary	-
0.0508	0.0066	2.16E-14	2,940,410	primary	-
-0.0098	0.0013	3.96E-13	3,037,490	primary	-
0.0093	0.0013	3.94E-13	3,037,500	primary	-
0.0093	0.0011	2.95E-18	3,037,460	primary	-
0.0063	0.0011	1.90E-09	3,037,480	primary	-
-0.0071	0.0012	2.36E-09	3,037,460	primary	-
-0.0071	0.0012	6.73E-10	3,036,940	primary	-
0.0107	0.0011	1.84E-22	3,037,470	primary	-
-0.0071	0.0011	2.83E-11	3,037,440	primary	-
0.0299	0.0055	4.89E-08	2,906,110	primary	-
0.0089	0.0011	2.89E-15	3,037,410	primary	-
-0.0112	0.0011	1.15E-23	3,037,410	primary	-
-0.0058	0.0011	3.49E-08	3,037,480	primary	-

0.0097	0.0011	7.46E-18	3,037,480	primary	-
-0.0156	0.0012	4.95E-42	3,035,640	primary	-
-0.0115	0.0011	2.51E-27	3,036,830	primary	-
-0.0177	0.0018	1.34E-23	3,011,670	primary	-
-0.0079	0.0011	1.09E-13	3,037,480	primary	-
0.0149	0.0015	1.21E-24	3,037,460	primary	-
-0.0107	0.0014	1.30E-14	3,037,430	secondary	N/A
-0.0105	0.0012	9.61E-19	3,016,560	primary	rs197420
0.0129	0.0011	1.32E-29	3,037,410	primary	-
0.0114	0.0011	2.43E-24	3,035,740	primary	-
-0.0315	0.0031	9.00E-25	3,005,060	primary	-
0.0059	0.0011	2.57E-08	3,035,770	primary	-
-0.0956	0.0162	3.78E-09	2,291,390	primary	-
0.0104	0.0017	7.62E-10	3,019,250	primary	-
-0.0184	0.0023	1.62E-15	3,035,770	primary	-
0.0087	0.0012	8.11E-13	3,017,810	primary	-
-0.0065	0.0011	2.54E-09	3,035,790	primary	-
-0.0068	0.0012	4.21E-09	3,023,220	primary	-
-0.0112	0.0012	1.30E-19	3,037,460	primary	-
-0.0100	0.0017	1.92E-09	2,995,010	primary	-
-0.0081	0.0011	2.20E-13	3,031,200	primary	-
0.0228	0.0039	3.05E-09	2,866,760	primary	-
-0.0173	0.0031	1.89E-08	2,974,910	primary	-
0.0134	0.0020	4.59E-11	2,912,810	primary	-
0.0089	0.0013	6.85E-12	3,037,470	primary	-
-0.0109	0.0017	2.73E-10	3,023,220	primary	-
0.0101	0.0011	1.28E-19	3,037,400	primary	-
-0.0333	0.0050	3.56E-11	2,126,650	primary	-
-0.0111	0.0014	3.97E-16	3,035,710	primary	-
0.0096	0.0014	6.84E-12	3,017,860	secondary	N/A
-0.0125	0.0014	1.16E-19	2,993,420	primary	rs4845368
0.0072	0.0011	1.07E-10	3,034,840	primary	-
-0.0147	0.0024	1.41E-09	3,027,660	primary	-
-0.0290	0.0034	1.31E-17	2,991,680	primary	-
-0.0123	0.0011	1.33E-30	3,023,140	primary	-
0.0061	0.0011	2.28E-08	3,015,270	primary	-
-0.0088	0.0015	1.29E-08	3,030,990	primary	-
-0.0086	0.0013	1.39E-11	3,023,190	primary	-
0.0137	0.0019	2.06E-12	3,017,700	primary	-
0.0096	0.0015	1.69E-10	3,035,400	primary	-
-0.0364	0.0058	3.80E-10	2,834,110	primary	-
-0.0078	0.0011	1.49E-13	3,035,760	primary	-
-0.0076	0.0011	1.22E-12	3,037,450	primary	-
0.0152	0.0023	2.29E-11	3,015,290	primary	-
-0.0069	0.0012	5.97E-09	3,037,500	primary	-
-0.0128	0.0021	2.34E-09	3,037,470	primary	-
0.0095	0.0014	1.57E-11	3,037,440	primary	-
-0.0075	0.0013	1.13E-08	3,035,780	primary	-

0.0091	0.0012	2.53E-13	2,272,150	primary	-
0.0103	0.0011	7.84E-21	3,037,420	primary	-
-0.0066	0.0011	3.87E-09	3,037,460	primary	-
-0.0117	0.0019	6.52E-10	3,037,420	primary	-
0.0082	0.0015	2.84E-08	3,037,480	primary	-
-0.0110	0.0016	3.79E-12	3,037,480	primary	-
-0.0116	0.0017	6.91E-12	3,035,730	primary	-
-0.0168	0.0011	7.81E-53	2,993,640	primary	-
0.0090	0.0013	5.08E-12	3,037,500	primary	-
0.0104	0.0012	3.77E-19	3,031,460	primary	-
-0.0104	0.0019	2.72E-08	3,037,490	primary	-
-0.0085	0.0011	9.54E-14	3,037,480	primary	-
-0.0076	0.0012	5.28E-11	3,037,470	primary	-
0.0090	0.0014	9.95E-11	3,029,450	primary	-
-0.0131	0.0020	6.92E-11	3,037,470	primary	-
-0.0068	0.0011	1.59E-10	3,030,510	primary	-
0.0072	0.0011	2.89E-11	3,037,450	primary	-
-0.0483	0.0080	1.75E-09	2,855,720	primary	-
0.0079	0.0011	2.76E-12	3,037,460	primary	-
0.0089	0.0011	3.20E-17	3,024,370	primary	-
0.0133	0.0011	9.06E-35	3,037,380	primary	-
0.0081	0.0012	1.48E-11	3,037,480	primary	-
0.0088	0.0011	7.12E-17	3,037,470	primary	-
0.0240	0.0035	6.55E-12	2,847,740	primary	-
-0.0137	0.0013	1.19E-25	3,024,910	primary	-
0.0088	0.0014	2.62E-10	3,037,480	primary	-
0.0115	0.0017	2.01E-11	3,037,460	primary	-
0.0072	0.0011	1.27E-11	3,035,730	primary	-
-0.0109	0.0015	1.52E-13	3,008,870	primary	-
0.0097	0.0017	2.80E-08	3,024,020	primary	-
0.0064	0.0011	9.80E-10	3,036,920	primary	-
0.0103	0.0013	4.37E-15	3,037,470	primary	-
-0.0096	0.0013	9.93E-13	3,000,800	primary	-
0.0084	0.0014	5.16E-09	3,037,470	primary	-
-0.0087	0.0013	4.76E-11	3,037,480	primary	-
0.0077	0.0011	2.42E-11	3,037,470	primary	-
0.0072	0.0011	9.92E-12	3,023,200	primary	-
0.0099	0.0011	2.27E-19	3,035,710	primary	-
0.0079	0.0011	1.07E-13	3,037,450	primary	-
0.0203	0.0013	1.61E-56	3,037,270	primary	-
-0.0081	0.0011	4.58E-13	3,023,190	primary	-
-0.0320	0.0054	3.06E-09	2,959,030	primary	-
-0.0087	0.0011	3.16E-14	3,036,900	primary	-
0.0083	0.0014	4.92E-09	3,037,500	primary	-
-0.0115	0.0013	1.82E-17	3,037,430	primary	-
-0.0067	0.0011	2.77E-09	3,034,050	primary	-
-0.0064	0.0011	1.44E-09	3,037,450	primary	-
-0.0123	0.0014	4.70E-18	3,037,420	primary	-

0.0091	0.0013	2.87E-13	3,037,430	primary	-
-0.0350	0.0059	3.02E-09	2,913,970	primary	-
-0.0080	0.0012	4.18E-12	3,037,500	primary	-
-0.0088	0.0013	3.62E-12	3,037,470	primary	-
-0.0088	0.0011	2.28E-16	3,037,450	primary	-
0.0259	0.0043	1.85E-09	2,996,180	primary	-
0.0121	0.0014	4.40E-18	3,037,460	primary	-
0.0072	0.0011	9.54E-12	3,037,440	primary	-
0.0160	0.0027	5.47E-09	3,021,280	primary	-
0.0078	0.0011	1.18E-11	3,037,480	primary	-
-0.0126	0.0021	3.85E-09	3,034,840	primary	-
0.0088	0.0013	6.44E-12	3,037,460	primary	-
0.0079	0.0012	1.05E-10	3,037,480	primary	-
-0.0120	0.0011	8.19E-27	3,031,150	primary	-
0.0109	0.0011	4.66E-25	3,022,630	primary	-
0.0074	0.0011	1.75E-12	3,024,930	primary	-
0.0073	0.0011	3.17E-12	3,037,480	primary	-
0.0073	0.0012	7.41E-10	3,035,780	primary	-
-0.0067	0.0011	2.45E-10	3,035,780	primary	-
-0.0088	0.0011	9.82E-16	3,033,260	primary	-
-0.0116	0.0018	3.04E-10	1,484,690	primary	-
0.0067	0.0011	8.04E-10	3,035,720	primary	-
0.0143	0.0012	2.45E-35	3,037,300	primary	-
0.0096	0.0016	1.09E-09	3,034,970	primary	-
-0.0157	0.0017	1.28E-19	3,031,440	primary	-
0.0135	0.0023	7.98E-09	3,000,550	primary	-
-0.0080	0.0011	5.45E-14	3,000,770	primary	-
0.0077	0.0011	2.46E-12	3,037,460	primary	-
-0.0060	0.0011	1.61E-08	3,037,480	primary	-
0.0059	0.0011	2.95E-08	3,037,490	primary	-
0.0269	0.0043	2.81E-10	2,988,420	primary	-
0.0108	0.0013	4.89E-17	3,037,450	primary	-
0.0059	0.0011	4.05E-08	3,037,470	primary	-
-0.0109	0.0013	4.32E-16	3,037,430	primary	-
-0.0069	0.0011	2.27E-10	3,037,460	primary	-
-0.0073	0.0011	9.40E-12	3,022,340	primary	-
-0.0077	0.0011	4.09E-13	3,037,430	primary	-
-0.0083	0.0013	1.60E-10	3,037,470	primary	-
0.0090	0.0014	7.12E-11	3,037,440	primary	-
-0.0068	0.0011	3.35E-10	3,035,830	primary	-
0.0065	0.0011	6.54E-09	3,023,210	primary	-
-0.0093	0.0011	2.76E-17	3,037,450	primary	-
0.0082	0.0014	2.99E-09	3,035,060	primary	-
0.0076	0.0011	5.00E-13	3,037,480	primary	-
0.0072	0.0011	4.86E-11	3,037,440	primary	-
-0.0074	0.0011	1.64E-12	3,037,480	primary	-
-0.0076	0.0011	1.14E-11	3,037,440	primary	-
-0.0088	0.0013	4.77E-12	3,030,010	primary	-

-0.0106	0.0015	4.99E-13	2,272,140	primary	-
0.0068	0.0011	1.79E-09	3,037,440	primary	-
-0.0078	0.0011	2.01E-13	3,037,440	primary	-
0.0128	0.0021	4.30E-10	3,021,580	primary	-
-0.0120	0.0020	8.51E-10	3,021,600	primary	-
-0.0354	0.0050	2.12E-12	3,005,440	primary	-
-0.0117	0.0021	2.60E-08	3,019,100	primary	-
0.0102	0.0011	1.04E-19	3,037,430	primary	-
0.0089	0.0011	1.61E-16	3,020,760	primary	-
0.0076	0.0011	3.32E-12	3,037,490	primary	-
-0.0104	0.0016	2.12E-11	3,037,450	primary	-
-0.0123	0.0013	7.00E-20	3,035,740	primary	-
-0.0079	0.0011	2.50E-12	3,037,450	primary	-
0.0100	0.0011	1.20E-18	3,037,450	primary	-
-0.0073	0.0011	4.42E-12	3,037,480	primary	-
-0.0091	0.0013	1.52E-12	3,007,740	primary	-
0.0082	0.0011	2.98E-14	3,037,460	primary	-
-0.0107	0.0011	3.56E-24	3,036,870	primary	-
0.0070	0.0011	4.68E-11	3,035,760	primary	-
0.0080	0.0011	1.89E-13	3,000,820	primary	-
-0.0106	0.0012	4.95E-18	3,024,150	primary	-
-0.0098	0.0011	3.72E-18	3,035,100	primary	-
-0.0067	0.0011	4.08E-09	3,035,630	primary	-
0.0213	0.0029	1.31E-13	3,030,610	primary	-
0.0081	0.0011	6.02E-13	3,035,730	primary	-
0.0154	0.0026	3.82E-09	3,037,450	primary	-
0.0089	0.0014	6.20E-11	3,023,200	primary	-
0.0095	0.0015	7.95E-11	2,966,600	primary	-
-0.0068	0.0011	1.07E-10	3,037,440	primary	-
-0.0074	0.0011	2.87E-12	3,030,200	primary	-
-0.0078	0.0014	8.07E-09	3,035,190	primary	-
0.0079	0.0011	2.10E-12	3,037,440	primary	-
0.0100	0.0015	8.27E-11	3,037,350	secondary	N/A
0.0103	0.0014	9.05E-14	3,035,600	primary	rs4812281
-0.0063	0.0010	2.02E-09	3,035,530	primary	-
0.0107	0.0013	1.25E-16	3,028,600	primary	-
-0.0080	0.0012	2.23E-11	3,001,630	primary	-
0.0097	0.0016	1.42E-09	3,011,850	primary	-
0.0074	0.0010	1.65E-12	3,036,890	primary	-
0.0082	0.0011	2.05E-13	3,037,470	primary	-
-0.0116	0.0011	5.02E-24	3,033,230	primary	-
-0.0096	0.0012	3.68E-16	3,037,430	primary	-
0.0103	0.0015	1.06E-11	3,024,100	primary	-
0.0096	0.0013	3.17E-14	3,037,430	primary	-
0.0078	0.0014	8.85E-09	3,037,460	primary	-
-0.0135	0.0023	6.24E-09	3,032,900	primary	-
-0.0100	0.0016	1.92E-10	3,022,430	primary	-
0.0104	0.0011	6.43E-20	3,036,630	primary	-

-0.0089	0.0012	9.98E-14	3,036,660	primary	-
0.0069	0.0012	3.56E-09	3,036,640	primary	-
-0.0094	0.0013	6.05E-13	3,036,670	primary	-
-0.0129	0.0022	8.20E-09	3,036,300	primary	-
-0.0080	0.0012	7.58E-11	3,036,660	primary	-
0.0088	0.0011	1.78E-16	3,036,630	primary	-
0.0107	0.0011	1.09E-21	3,036,590	primary	-
0.0094	0.0012	7.34E-15	3,036,650	primary	-
-0.0100	0.0011	4.00E-20	3,025,130	primary	-
-0.0084	0.0011	1.31E-14	3,021,560	primary	-
0.0122	0.0020	1.20E-09	3,035,850	primary	-
0.0066	0.0012	1.67E-08	3,037,490	primary	-
-0.0079	0.0011	4.51E-14	3,031,090	primary	-
-0.0092	0.0013	3.49E-13	3,028,690	primary	-
0.0071	0.0011	5.20E-11	3,036,610	primary	-
-0.0066	0.0011	3.99E-09	3,037,490	primary	-
-0.0246	0.0038	8.14E-11	3,019,160	primary	-
0.0084	0.0012	3.83E-13	3,032,350	primary	-
-0.0079	0.0011	7.13E-13	3,036,920	primary	-
-0.0083	0.0011	3.26E-14	3,037,450	primary	-
0.0068	0.0012	1.86E-08	3,037,370	secondary	N/A
-0.0107	0.0012	1.47E-18	3,037,350	primary	rs2530661
0.0093	0.0011	2.29E-16	3,037,450	primary	-
-0.0085	0.0012	3.94E-13	3,037,490	primary	-
-0.0159	0.0012	4.38E-42	3,037,310	primary	-
-0.0217	0.0023	5.31E-22	3,023,140	primary	-
-0.0158	0.0018	9.64E-19	3,033,060	primary	-
-0.0133	0.0024	2.17E-08	2,986,140	primary	-
-0.0093	0.0012	1.90E-14	3,005,800	primary	-
0.0113	0.0011	7.00E-27	3,037,430	primary	-
0.0149	0.0018	3.19E-16	2,993,290	primary	-
-0.0089	0.0011	5.32E-16	3,035,750	primary	-
0.0135	0.0016	1.40E-17	3,033,690	primary	-
0.0078	0.0011	2.11E-13	3,037,430	primary	-
0.0072	0.0012	7.08E-10	2,522,380	primary	-
-0.0071	0.0010	1.67E-11	3,037,440	primary	-
0.0070	0.0011	5.21E-11	3,017,020	primary	-
0.0061	0.0011	2.28E-08	3,031,100	primary	-
0.0084	0.0012	1.65E-12	3,037,460	primary	-
0.0184	0.0028	8.12E-11	2,949,720	primary	-
0.0061	0.0011	4.33E-08	3,037,480	primary	-
-0.0079	0.0011	6.36E-13	2,986,540	primary	-
0.0092	0.0011	9.93E-17	3,033,770	primary	-
0.0066	0.0012	1.23E-08	2,881,170	primary	-
0.0074	0.0011	3.53E-12	3,008,700	primary	-
0.0094	0.0011	6.68E-19	3,016,170	primary	-
0.0081	0.0013	2.43E-10	3,019,990	primary	-
0.0113	0.0013	1.00E-18	3,034,210	primary	-

-0.0071	0.0011	7.24E-11	3,033,300	primary	-
0.0102	0.0017	2.34E-09	3,037,480	primary	-
-0.0211	0.0037	1.42E-08	2,825,700	primary	-
-0.0062	0.0011	8.20E-09	3,037,500	primary	-
0.0087	0.0014	9.78E-11	3,030,060	primary	-
0.0105	0.0017	1.05E-09	3,037,360	primary	rs7603132
0.0111	0.0018	1.38E-09	3,029,990	secondary	N/A
0.0084	0.0011	8.07E-15	3,037,480	primary	-
0.0266	0.0028	9.21E-21	3,010,880	primary	-
0.0182	0.0028	8.83E-11	2,977,230	primary	-
-0.0082	0.0013	9.76E-10	3,037,500	primary	-
-0.0080	0.0011	1.05E-13	3,020,600	primary	-
0.0118	0.0014	1.36E-17	3,000,800	primary	rs6760539
0.0068	0.0012	2.43E-08	3,033,270	secondary	N/A
0.0152	0.0020	1.32E-14	2,872,450	primary	-
0.0243	0.0016	7.17E-54	3,033,120	primary	-
0.0229	0.0031	1.60E-13	3,035,740	primary	-
0.0107	0.0019	1.76E-08	3,036,940	primary	-
-0.0154	0.0016	6.06E-21	3,037,440	primary	-
0.0062	0.0011	4.68E-09	3,037,470	primary	-
-0.0087	0.0011	5.90E-15	3,024,960	primary	-
-0.0087	0.0013	4.19E-12	3,035,040	primary	-
0.0098	0.0012	2.60E-16	3,037,440	primary	-
-0.0065	0.0011	2.08E-09	3,037,490	primary	-
-0.0093	0.0011	1.64E-18	3,031,730	primary	-
0.0102	0.0011	1.28E-21	3,037,420	primary	-
-0.0082	0.0012	5.77E-12	3,035,750	primary	-
0.0075	0.0011	9.62E-12	3,024,940	primary	-
0.0114	0.0018	3.36E-10	3,037,460	primary	-
0.0284	0.0045	2.40E-10	3,019,870	secondary	N/A
-0.0110	0.0016	2.51E-12	2,982,440	primary	-
-0.0510	0.0059	2.91E-18	3,002,970	primary	rs183720801
-0.0457	0.0079	5.78E-09	2,713,320	primary	-
-0.0355	0.0058	6.90E-10	2,848,130	primary	-
-0.0092	0.0016	5.08E-09	2,272,190	primary	-
-0.0102	0.0012	1.43E-17	2,596,310	primary	-
-0.0095	0.0014	1.13E-11	3,037,460	primary	-
-0.0079	0.0013	3.79E-10	3,037,500	primary	-
0.0120	0.0011	2.82E-29	3,037,410	primary	-
-0.0075	0.0011	3.04E-12	3,037,460	primary	-
0.0070	0.0011	3.81E-11	3,033,310	primary	-
-0.0064	0.0011	1.07E-08	3,034,960	primary	-
0.0063	0.0011	2.28E-09	3,035,760	primary	-
0.0084	0.0011	3.74E-15	3,037,490	primary	-
0.0089	0.0011	7.36E-16	3,035,730	primary	-
-0.0114	0.0011	2.42E-26	2,996,670	primary	-
-0.0065	0.0012	1.85E-08	3,037,470	primary	-
-0.0099	0.0012	7.84E-16	3,035,730	primary	-

0.0112	0.0012	5.52E-21	3,035,490	primary	-
-0.0075	0.0011	4.35E-11	3,035,760	primary	-
0.0084	0.0012	4.75E-12	3,024,930	primary	-
0.0070	0.0011	3.16E-11	3,037,480	primary	-
-0.0091	0.0012	8.18E-14	3,037,470	primary	-
0.0084	0.0011	1.34E-14	3,037,470	primary	-
-0.0153	0.0025	9.31E-10	2,992,150	primary	-
-0.0083	0.0011	5.89E-14	3,037,430	primary	-
-0.0400	0.0059	1.13E-11	2,964,130	primary	-
-0.0129	0.0023	2.81E-08	3,037,110	primary	-
0.0082	0.0012	2.47E-11	3,035,770	primary	-
-0.0103	0.0014	8.31E-13	3,035,800	primary	-
-0.0193	0.0022	1.23E-18	3,037,440	primary	-
0.0125	0.0011	2.63E-29	3,037,390	primary	-
0.0082	0.0015	4.83E-08	3,037,490	primary	-
-0.0131	0.0011	6.65E-34	3,037,450	primary	-
-0.0625	0.0096	8.65E-11	2,969,950	primary	-
-0.0124	0.0018	1.58E-12	3,035,660	primary	-
-0.0128	0.0017	4.63E-14	3,022,190	primary	-
0.0075	0.0012	5.29E-10	3,035,600	primary	-
-0.0093	0.0011	1.16E-17	3,035,590	primary	-
0.0080	0.0011	1.01E-12	2,990,510	primary	-
-0.0175	0.0019	5.73E-20	3,035,230	primary	-
-0.0081	0.0011	6.36E-14	3,035,630	primary	-
0.0121	0.0019	4.77E-10	3,035,690	primary	-
-0.0130	0.0011	1.52E-32	3,035,610	primary	-
-0.0113	0.0011	9.93E-25	3,035,210	primary	-
-0.0094	0.0014	1.42E-11	3,037,520	primary	-
0.0204	0.0013	1.59E-52	3,037,340	primary	-
0.0212	0.0016	2.52E-40	3,035,740	primary	rs7423940
0.0130	0.0014	1.71E-19	3,035,780	secondary	N/A
-0.0243	0.0036	1.56E-11	2,987,900	primary	-
0.0269	0.0017	1.20E-59	3,034,970	primary	-
-0.0170	0.0027	2.19E-10	3,037,470	primary	-
0.0158	0.0020	3.56E-15	3,033,500	primary	-
0.0095	0.0011	8.39E-19	3,035,020	primary	-
0.0278	0.0048	9.22E-09	2,955,140	primary	-
-0.0214	0.0033	1.38E-10	2,547,820	primary	-
0.0123	0.0013	1.73E-21	3,037,490	primary	rs78539852
0.0134	0.0020	2.04E-11	3,034,070	primary	-
0.0211	0.0024	9.17E-19	3,037,090	secondary	N/A
0.0106	0.0011	1.68E-22	3,037,450	primary	-
-0.0089	0.0016	3.50E-08	3,037,470	primary	-
0.0093	0.0013	4.32E-13	3,037,480	primary	-
-0.0084	0.0011	2.83E-14	3,035,000	primary	-
0.0104	0.0013	6.79E-16	3,037,460	primary	-
-0.0127	0.0011	6.66E-29	3,034,860	primary	-
0.0112	0.0017	5.04E-11	3,037,390	primary	-

-0.0195	0.0029	2.01E-11	2,966,470	primary	-
-0.0102	0.0013	3.77E-16	3,037,370	primary	-
0.0128	0.0019	2.04E-11	3,037,470	primary	-
-0.0523	0.0087	1.58E-09	2,854,830	primary	-
0.0105	0.0012	2.24E-19	3,037,450	primary	-
-0.0082	0.0011	3.91E-13	3,037,450	primary	-
0.0131	0.0014	7.89E-20	3,037,470	primary	-
0.0115	0.0011	3.65E-24	3,035,760	primary	-
-0.0122	0.0020	1.32E-09	3,034,340	primary	-
0.0111	0.0011	3.02E-23	3,000,810	primary	-
0.0180	0.0021	3.86E-18	3,033,960	primary	-
0.0167	0.0011	1.14E-51	3,037,310	primary	-
0.0153	0.0015	5.13E-25	3,037,440	primary	-
-0.0357	0.0046	1.23E-14	3,020,760	primary	-
-0.0229	0.0036	1.34E-10	2,921,030	primary	-
-0.0125	0.0012	2.10E-24	3,037,360	primary	-
0.0116	0.0017	2.61E-12	3,037,460	primary	-
0.0125	0.0014	2.41E-19	3,000,860	primary	-
-0.0300	0.0044	7.64E-12	3,007,230	primary	-
-0.0472	0.0070	1.19E-11	2,851,770	primary	-
-0.0073	0.0012	7.08E-10	3,035,750	primary	-
-0.0074	0.0012	9.62E-10	3,037,450	primary	-
-0.0072	0.0011	2.24E-11	3,037,460	primary	-
-0.0065	0.0011	1.59E-09	3,000,850	primary	-
0.0089	0.0011	5.11E-15	3,037,510	primary	-
-0.0134	0.0015	3.31E-18	3,035,740	primary	-
-0.0106	0.0011	2.52E-21	3,021,440	primary	-
-0.0593	0.0090	5.44E-11	2,903,180	primary	-
-0.0773	0.0119	9.69E-11	2,713,330	primary	-
0.0082	0.0015	4.34E-08	3,012,620	primary	-
-0.0100	0.0011	3.41E-20	3,016,970	primary	-
-0.0075	0.0011	1.12E-11	3,024,930	primary	-
0.0113	0.0011	3.23E-26	3,020,770	primary	-
0.0074	0.0011	6.67E-12	3,035,070	primary	-
-0.0090	0.0011	4.87E-17	3,015,110	primary	-
-0.0066	0.0011	3.60E-09	3,035,790	primary	-
-0.0680	0.0117	6.17E-09	2,829,800	primary	-
0.0316	0.0053	2.78E-09	3,015,560	primary	-
0.0097	0.0011	2.57E-19	3,017,350	primary	-
-0.0311	0.0044	1.25E-12	2,869,250	primary	-
0.0085	0.0013	1.13E-10	3,037,470	primary	-
-0.0250	0.0043	6.68E-09	3,015,400	primary	-
-0.0157	0.0026	1.23E-09	3,037,190	primary	-
-0.0097	0.0012	6.47E-17	3,037,420	primary	-
0.0206	0.0027	4.29E-14	3,005,530	primary	-
-0.0166	0.0020	2.57E-17	3,020,760	primary	-
0.0244	0.0029	9.90E-17	3,033,900	primary	-
-0.0142	0.0013	7.08E-27	3,037,510	primary	-

-0.0099	0.0011	6.09E-18	3,019,270	primary	-
-0.0080	0.0011	5.44E-14	3,037,500	primary	-
-0.0116	0.0018	1.46E-10	3,037,440	primary	-
-0.0108	0.0013	1.64E-17	3,037,500	primary	-
-0.0349	0.0048	6.20E-13	2,996,170	primary	-
-0.0293	0.0046	2.69E-10	3,006,220	primary	-
0.0097	0.0015	2.25E-11	3,035,740	primary	-
0.0133	0.0014	4.90E-21	3,019,070	primary	-
-0.0312	0.0042	7.17E-14	2,508,870	primary	-
-0.0309	0.0036	2.15E-17	3,029,750	primary	-
0.0144	0.0022	3.77E-11	3,037,490	primary	-
0.0380	0.0061	4.77E-10	2,877,280	primary	-
-0.0118	0.0011	9.52E-28	3,035,150	primary	-
0.0352	0.0055	1.36E-10	2,891,870	primary	-
0.0141	0.0015	3.31E-20	3,037,310	primary	-
0.0117	0.0014	2.02E-17	3,037,050	secondary	N/A
0.0219	0.0027	5.46E-16	3,003,100	primary	-
0.0187	0.0013	1.13E-45	3,035,460	primary	rs4583487
0.0091	0.0011	3.09E-17	3,037,420	primary	-
-0.0079	0.0012	1.18E-11	3,037,450	primary	-
0.1103	0.0129	1.14E-17	2,887,080	primary	-
0.0085	0.0014	4.59E-10	3,037,500	primary	-
0.0115	0.0017	3.22E-11	3,020,790	primary	-
0.0186	0.0021	2.86E-19	2,984,740	primary	rs1837714
0.0103	0.0012	2.01E-17	3,037,360	secondary	N/A
0.0687	0.0117	4.37E-09	2,845,710	primary	-
0.0766	0.0110	4.03E-12	2,812,100	primary	-
0.0130	0.0016	3.12E-16	3,019,950	primary	-
0.0199	0.0016	5.31E-36	3,037,430	primary	-
0.0066	0.0011	1.02E-09	3,036,930	primary	-
0.0190	0.0011	3.64E-67	3,037,320	primary	-
0.0076	0.0012	4.51E-10	3,037,500	primary	-
0.0316	0.0050	2.45E-10	2,913,270	primary	-
-0.0082	0.0011	5.58E-14	3,037,470	primary	-
0.0089	0.0012	8.81E-14	3,034,980	primary	-
0.0108	0.0014	2.21E-15	2,959,990	primary	-
-0.0083	0.0012	9.13E-12	3,035,750	primary	-
0.0080	0.0011	9.01E-14	3,037,490	primary	-
0.0123	0.0016	2.97E-15	3,035,660	primary	-
-0.0116	0.0011	2.79E-27	3,035,640	primary	-
0.0470	0.0069	1.26E-11	2,713,330	primary	-
0.0103	0.0011	6.84E-21	3,023,140	primary	-
-0.0102	0.0011	1.99E-21	3,033,970	primary	-
-0.0071	0.0011	2.14E-10	3,035,690	primary	-
0.0131	0.0014	2.16E-21	3,035,640	primary	-
-0.0140	0.0023	8.82E-10	2,992,220	primary	-
-0.0094	0.0011	4.30E-18	3,037,430	primary	-
0.0254	0.0041	6.32E-10	2,937,260	primary	-

-0.0089	0.0013	2.86E-12	3,037,450	primary	-
0.0069	0.0011	2.85E-10	3,037,510	primary	-
0.0081	0.0011	1.72E-13	3,037,450	primary	-
0.0129	0.0012	6.57E-28	3,037,440	primary	-
0.0072	0.0012	3.32E-10	3,036,950	primary	-
0.0196	0.0025	7.61E-15	3,023,690	primary	-
0.0654	0.0108	1.26E-09	2,850,280	primary	-
0.0573	0.0102	1.88E-08	2,838,450	primary	-
-0.0170	0.0018	9.23E-22	3,024,890	primary	-
0.0735	0.0122	1.67E-09	2,876,460	primary	-
0.0112	0.0018	3.67E-10	2,966,890	primary	-
-0.0092	0.0011	1.42E-17	3,035,720	primary	-
-0.0121	0.0011	7.26E-28	3,036,910	primary	-
0.0105	0.0015	4.37E-13	3,037,480	primary	-
0.0065	0.0011	1.41E-09	3,037,470	primary	-
-0.0072	0.0011	7.41E-11	3,037,480	primary	-
0.0248	0.0034	2.84E-13	3,007,550	primary	-
-0.0080	0.0011	9.49E-14	3,037,480	primary	-
0.0846	0.0129	4.89E-11	2,713,330	primary	-
-0.0088	0.0014	2.48E-10	3,037,490	primary	-
-0.0201	0.0029	7.46E-12	3,021,600	primary	-
0.0256	0.0046	1.98E-08	2,966,360	primary	-
0.0107	0.0016	1.32E-11	3,037,510	primary	-
0.0084	0.0011	7.76E-15	3,037,510	primary	-
-0.0087	0.0011	9.04E-16	3,033,340	primary	-
0.0125	0.0014	2.49E-19	3,037,470	primary	-
-0.0083	0.0011	2.83E-14	3,037,470	primary	-
0.0137	0.0016	2.52E-18	3,037,450	primary	-
0.0087	0.0014	3.56E-10	3,037,470	primary	-
-0.0100	0.0013	5.36E-15	3,037,460	primary	-
-0.0297	0.0038	5.06E-15	3,033,800	primary	-
-0.0133	0.0011	1.12E-31	3,037,410	primary	-
-0.0155	0.0020	3.40E-14	3,035,780	primary	-
0.0080	0.0011	1.23E-13	3,037,430	primary	-
0.0146	0.0013	2.49E-27	3,037,470	secondary	N/A
-0.0159	0.0014	4.34E-31	3,037,380	primary	rs11685467,rs355588
0.0142	0.0023	1.30E-09	3,037,440	secondary	N/A
-0.0083	0.0011	3.98E-13	3,003,120	primary	-
-0.0083	0.0012	3.40E-12	3,035,760	primary	-
-0.0100	0.0011	9.57E-21	3,037,420	primary	-
-0.0108	0.0012	2.74E-19	3,035,770	primary	-
-0.0160	0.0011	3.75E-47	3,037,330	primary	-
-0.0163	0.0011	8.66E-50	3,037,360	primary	-
-0.0086	0.0012	5.54E-13	3,033,320	primary	-
0.0088	0.0012	6.60E-14	3,033,290	primary	-
-0.0104	0.0016	1.28E-10	3,032,790	primary	-
-0.0242	0.0021	6.53E-32	3,037,420	primary	-
0.0075	0.0013	6.79E-09	3,034,050	secondary	N/A

-0.0103	0.0012	1.34E-18	3,037,470	primary	rs55855159
0.1072	0.0161	2.92E-11	2,751,730	primary	-
-0.0145	0.0023	1.40E-10	3,035,050	primary	-
0.0441	0.0069	1.78E-10	2,931,730	primary	-
0.0141	0.0016	1.40E-18	3,000,080	primary	-
-0.0144	0.0014	1.09E-23	3,037,450	primary	-
0.0114	0.0015	6.31E-14	3,037,490	primary	-
-0.0189	0.0013	5.03E-46	3,037,420	primary	-
0.0076	0.0012	2.34E-10	3,034,230	primary	-
0.0153	0.0021	6.39E-13	3,030,110	primary	-
-0.0224	0.0034	7.03E-11	2,997,050	primary	-
0.0079	0.0014	2.42E-08	3,037,490	primary	-
-0.0089	0.0012	6.56E-14	3,035,760	primary	-
0.0081	0.0012	2.41E-11	3,037,500	primary	-
0.0076	0.0011	2.95E-12	3,037,450	primary	-
-0.0074	0.0011	1.21E-10	3,021,520	primary	-
0.0093	0.0013	2.18E-13	3,037,460	primary	-
-0.0120	0.0020	2.85E-09	3,037,500	primary	-
0.0089	0.0013	1.84E-12	2,999,140	primary	-
0.0105	0.0017	1.73E-09	3,034,050	primary	-
-0.0084	0.0012	2.37E-12	3,024,920	primary	-
-0.0109	0.0013	4.40E-16	3,037,490	primary	-
-0.0088	0.0011	2.31E-16	3,035,730	primary	-
-0.0085	0.0012	3.79E-13	3,015,970	primary	-
-0.0100	0.0012	1.11E-16	3,037,510	primary	-
0.0073	0.0012	4.56E-10	3,037,490	primary	-
-0.0110	0.0012	5.89E-20	3,037,490	primary	-
-0.0269	0.0045	2.92E-09	2,890,320	primary	-
0.0165	0.0018	5.43E-20	3,036,650	primary	-
-0.0110	0.0011	4.95E-22	3,037,450	primary	-
-0.0140	0.0017	3.89E-17	3,035,770	primary	-
0.0177	0.0022	4.28E-16	3,037,430	primary	-
-0.0123	0.0013	8.26E-22	3,037,440	primary	-
0.0119	0.0016	2.15E-13	3,020,170	primary	-
-0.0420	0.0063	2.59E-11	2,983,830	primary	-
-0.0211	0.0035	9.95E-10	3,013,170	primary	-
0.0089	0.0011	7.21E-16	3,037,470	primary	-
0.0117	0.0013	7.73E-19	3,037,470	primary	-
0.0112	0.0019	3.51E-09	3,002,220	primary	-
0.0112	0.0014	7.45E-15	3,037,480	primary	-
0.0064	0.0012	4.61E-08	3,021,670	primary	-
0.0099	0.0012	2.97E-17	3,037,440	primary	-
0.0284	0.0029	2.59E-23	3,035,490	primary	-
-0.0113	0.0014	3.39E-16	3,035,730	primary	-
-0.0154	0.0012	8.93E-41	3,037,310	primary	-
0.0107	0.0012	3.82E-18	3,037,390	primary	-
-0.0119	0.0013	7.92E-20	2,315,730	primary	-
-0.0097	0.0014	2.24E-12	2,954,670	primary	-

-0.0131	0.0011	9.98E-33	3,036,830	primary	-
-0.0099	0.0014	5.20E-12	3,029,930	primary	-
-0.0172	0.0021	9.82E-17	3,029,830	primary	-
0.0078	0.0013	1.69E-09	3,037,490	primary	-
-0.0209	0.0020	3.77E-26	3,034,950	primary	-
-0.0067	0.0011	4.40E-10	3,037,500	primary	-
-0.0073	0.0012	1.32E-09	3,035,710	primary	-
-0.0098	0.0017	2.50E-09	3,035,790	primary	-
0.0395	0.0044	1.66E-19	2,945,060	primary	-
0.0075	0.0011	4.03E-12	3,035,680	primary	-
-0.0158	0.0022	1.60E-12	3,007,290	primary	-
0.0080	0.0013	1.88E-10	3,037,490	primary	-
0.0118	0.0017	1.00E-11	3,035,740	primary	-
0.0068	0.0011	6.71E-10	3,023,510	primary	-
0.0068	0.0012	9.77E-09	3,035,780	primary	-
-0.0081	0.0011	3.69E-13	3,033,310	primary	-
0.0167	0.0022	3.82E-14	3,037,470	primary	-
-0.0136	0.0024	1.51E-08	3,037,480	primary	-
-0.0102	0.0014	6.02E-14	3,037,370	secondary	N/A
0.0112	0.0012	7.49E-21	3,035,710	primary	rs62182444
0.0070	0.0011	6.50E-10	3,037,450	primary	-
0.0084	0.0014	4.39E-09	3,037,420	secondary	N/A
0.0092	0.0016	3.36E-09	3,037,430	primary	rs3754740
-0.0096	0.0012	5.39E-16	3,019,280	primary	-
0.0110	0.0011	3.03E-25	3,027,300	primary	-
-0.0182	0.0030	6.64E-10	2,985,980	primary	-
0.0076	0.0012	1.73E-10	3,037,470	primary	-
-0.0305	0.0022	1.55E-42	3,036,870	primary	-
0.0088	0.0011	1.41E-15	3,035,770	primary	-
0.0147	0.0017	6.34E-18	3,037,450	primary	-
-0.0077	0.0011	2.27E-12	3,037,470	primary	-
-0.0249	0.0027	2.86E-20	3,022,130	primary	-
-0.0130	0.0018	2.49E-13	3,035,770	primary	-
-0.0109	0.0018	1.10E-09	3,021,680	primary	-
-0.0078	0.0014	1.57E-08	3,037,480	primary	-
0.0114	0.0011	1.95E-23	3,035,710	primary	-
0.0124	0.0017	3.77E-13	3,036,950	primary	-
0.0074	0.0011	1.58E-11	3,037,440	primary	-
0.0119	0.0020	1.73E-09	3,037,480	primary	-
-0.0127	0.0018	6.11E-12	3,015,840	primary	-
0.0210	0.0020	1.05E-24	3,013,470	primary	-
0.0105	0.0016	1.02E-10	3,021,110	primary	-
-0.0276	0.0031	2.62E-19	3,023,480	primary	-
-0.0066	0.0011	3.75E-10	3,037,480	primary	-
-0.0101	0.0015	5.36E-12	3,037,490	primary	-
-0.0106	0.0015	4.46E-13	3,037,460	primary	-
-0.0066	0.0011	1.98E-09	3,037,500	primary	-
0.0148	0.0021	1.53E-12	3,033,310	secondary	N/A

0.0086	0.0012	1.17E-13	3,037,440	primary	rs75142797
-0.0094	0.0011	3.37E-18	3,037,440	primary	-
0.0102	0.0012	1.68E-18	3,000,800	primary	-
-0.0072	0.0011	3.66E-11	3,037,460	primary	-
0.0091	0.0011	9.96E-18	3,023,180	primary	-
-0.0131	0.0011	9.61E-32	3,022,370	primary	-
0.0075	0.0012	3.84E-10	3,037,430	primary	-
-0.0169	0.0023	3.80E-13	2,925,720	primary	-
0.0097	0.0013	1.54E-13	3,033,330	primary	-
-0.0088	0.0015	8.92E-09	3,035,640	primary	-
0.0072	0.0011	5.70E-11	3,037,500	primary	-
-0.0396	0.0062	1.38E-10	2,843,090	primary	-
0.0075	0.0011	6.22E-12	3,035,690	primary	-
-0.0161	0.0011	2.47E-50	3,033,750	primary	-
0.0081	0.0011	3.11E-13	3,035,700	primary	-
-0.0125	0.0014	2.01E-18	2,996,510	primary	-
-0.0098	0.0011	1.34E-19	3,037,430	primary	-
0.0171	0.0016	1.15E-26	3,035,700	primary	-
-0.0108	0.0017	4.08E-10	3,037,480	primary	-
-0.0168	0.0028	1.26E-09	3,035,090	primary	-
-0.0128	0.0022	3.33E-09	2,996,870	primary	-
-0.0113	0.0015	2.89E-14	3,035,770	primary	-
-0.0136	0.0014	1.14E-21	3,032,970	primary	-
0.0074	0.0013	4.70E-09	3,037,460	primary	-
0.0089	0.0011	8.52E-16	3,035,780	primary	-
-0.0082	0.0011	1.30E-14	3,034,190	primary	-
-0.0117	0.0011	1.93E-28	3,037,430	primary	-
0.0108	0.0011	5.69E-21	3,037,450	primary	-
-0.0143	0.0012	5.25E-35	2,985,950	primary	-
0.0121	0.0022	2.50E-08	3,036,580	primary	-
0.0094	0.0012	1.93E-15	3,037,490	primary	-
-0.0107	0.0011	4.59E-24	3,020,930	primary	-
0.0499	0.0080	4.73E-10	2,880,770	primary	-
0.0094	0.0016	2.97E-09	3,037,410	primary	-
-0.0091	0.0011	4.44E-16	3,037,420	primary	-
-0.0081	0.0013	5.65E-10	3,035,790	primary	-
-0.0061	0.0011	1.51E-08	3,024,920	primary	-
-0.0065	0.0011	2.67E-09	3,019,240	primary	-
-0.0093	0.0014	8.70E-11	3,037,470	primary	-
-0.0316	0.0037	3.40E-17	2,920,580	primary	-
-0.0073	0.0011	5.23E-11	3,035,260	primary	-
0.0076	0.0011	6.51E-12	3,035,760	primary	-
-0.0060	0.0011	1.43E-08	2,986,590	primary	-
0.0078	0.0011	1.60E-13	2,999,100	primary	-
-0.0086	0.0013	9.23E-12	3,037,470	primary	-
0.0106	0.0011	5.49E-21	3,037,410	primary	-
0.0164	0.0017	1.84E-21	3,024,870	primary	-
0.0066	0.0011	8.34E-10	3,037,500	primary	-

-0.0150	0.0014	2.22E-27	3,024,860	primary	-
0.0089	0.0012	1.28E-14	3,033,270	primary	-
0.0129	0.0011	5.97E-31	3,037,370	primary	-
0.0127	0.0015	2.20E-16	3,035,730	primary	-
0.0085	0.0015	3.77E-08	3,037,480	primary	-
-0.0146	0.0023	3.38E-10	3,037,470	primary	-
0.0115	0.0016	6.22E-13	3,023,220	primary	-
0.0085	0.0012	3.55E-13	3,036,130	primary	-
-0.0093	0.0014	8.03E-11	3,019,850	secondary	N/A
-0.0112	0.0014	3.88E-16	3,035,960	primary	rs13007783
0.0101	0.0012	2.42E-16	3,032,500	primary	-
0.0081	0.0011	1.72E-14	3,028,320	primary	-
-0.0066	0.0011	4.74E-10	3,025,140	primary	-
-0.0103	0.0014	1.36E-13	3,022,350	primary	-
0.0063	0.0011	5.00E-09	3,036,650	primary	-
-0.0091	0.0015	6.94E-10	3,015,340	primary	-
0.0135	0.0017	5.83E-16	3,003,650	primary	-
-0.0090	0.0013	9.39E-13	3,028,760	primary	-
-0.0067	0.0011	1.97E-10	3,036,150	primary	-
0.0078	0.0011	9.94E-14	3,037,450	primary	-
-0.0084	0.0014	1.16E-09	3,035,730	primary	-
-0.0110	0.0013	2.21E-16	3,037,470	primary	-
0.0071	0.0011	5.23E-10	3,023,220	primary	-
-0.0088	0.0011	6.82E-15	3,037,450	primary	-
-0.0078	0.0012	4.62E-10	3,037,500	primary	-
-0.0092	0.0011	6.68E-17	3,037,430	primary	-
-0.0073	0.0011	1.55E-11	3,037,470	primary	-
0.0303	0.0045	9.66E-12	2,941,510	primary	-
-0.0092	0.0011	1.04E-17	3,037,440	primary	-
0.0106	0.0011	1.29E-20	3,033,800	primary	-
0.0095	0.0014	6.83E-12	3,035,510	primary	-
-0.0104	0.0013	9.28E-15	2,951,480	primary	-
0.0083	0.0012	2.91E-11	3,035,780	primary	-
-0.0275	0.0035	3.48E-15	3,027,370	primary	-
0.0065	0.0011	7.13E-10	3,022,500	primary	-
0.0082	0.0011	9.06E-13	3,037,430	primary	-
-0.0094	0.0014	4.50E-11	3,037,420	primary	-
0.0128	0.0023	1.43E-08	2,972,000	primary	-
0.0345	0.0046	8.13E-14	2,798,850	primary	-
-0.0092	0.0012	1.14E-13	3,035,710	primary	-
-0.0121	0.0012	1.08E-24	3,037,440	primary	-
0.0093	0.0011	1.96E-16	3,036,850	primary	-
-0.0069	0.0011	1.12E-09	3,035,750	primary	-
-0.0077	0.0011	8.93E-13	3,037,480	primary	-
0.0085	0.0012	1.51E-12	3,035,730	primary	-
-0.0089	0.0012	3.14E-14	3,023,240	primary	-
0.0089	0.0013	8.59E-12	3,022,470	primary	-
-0.0131	0.0014	8.37E-22	3,037,420	primary	-

-0.0090	0.0013	8.03E-13	3,037,480	primary	-
0.0079	0.0011	1.32E-13	3,037,460	primary	-
-0.0150	0.0020	1.23E-13	3,023,210	primary	-
0.0079	0.0011	4.90E-14	3,037,460	primary	-
0.0071	0.0011	1.50E-11	3,037,490	primary	-
0.0139	0.0015	1.13E-19	3,031,550	primary	-
-0.0143	0.0018	5.92E-15	3,035,370	primary	-
-0.0107	0.0012	9.88E-19	3,024,880	primary	-
-0.0109	0.0012	2.00E-19	3,037,460	primary	-
-0.0092	0.0015	6.45E-10	3,035,760	primary	-
0.0086	0.0012	2.17E-12	3,037,470	primary	-
0.0361	0.0052	4.72E-12	2,971,510	primary	-
-0.0114	0.0011	7.89E-26	3,036,840	primary	-
0.0091	0.0013	4.54E-12	3,037,480	primary	-
-0.0073	0.0011	1.02E-10	3,037,500	primary	-
-0.0232	0.0036	6.28E-11	2,995,050	primary	-
-0.0142	0.0016	5.35E-19	3,035,760	primary	-
-0.0176	0.0011	2.27E-54	3,024,850	primary	-
0.0115	0.0019	7.80E-10	3,003,880	secondary	N/A
0.0165	0.0016	7.39E-24	3,037,150	primary	-
0.0202	0.0014	1.54E-45	2,989,820	primary	rs73078367,rs7627910
-0.0276	0.0026	3.00E-26	2,951,870	primary	-
0.0147	0.0013	7.37E-32	3,035,170	secondary	N/A
-0.0151	0.0019	1.69E-15	2,489,320	primary	-
0.0091	0.0012	3.48E-14	3,024,920	primary	-
-0.0092	0.0012	1.06E-13	2,999,120	primary	-
0.0104	0.0011	1.75E-21	3,035,750	primary	-
-0.1056	0.0183	8.23E-09	2,272,200	primary	-
0.0117	0.0011	1.13E-24	3,037,410	primary	-
-0.0093	0.0013	5.08E-13	3,037,470	primary	-
0.0071	0.0011	7.38E-11	3,037,480	primary	-
-0.0089	0.0011	4.06E-16	3,034,990	primary	-
0.0087	0.0013	1.63E-11	3,024,940	primary	-
-0.0832	0.0034	8.97E-131	3,037,440	primary	rs59760856,rs9822855,rs13071861
-0.0811	0.0034	4.76E-129	3,035,820	secondary	N/A
-0.0793	0.0034	8.97E-120	3,037,520	secondary	N/A
0.0155	0.0018	2.18E-18	3,035,010	secondary	N/A
0.0068	0.0011	4.37E-10	3,037,450	primary	-
0.0106	0.0013	1.25E-16	3,021,950	primary	-
-0.0101	0.0015	1.59E-11	3,015,950	primary	-
-0.0149	0.0024	9.03E-10	3,019,570	primary	-
0.0114	0.0012	4.86E-23	3,022,470	primary	-
-0.0100	0.0016	2.27E-10	3,019,100	primary	-
0.0080	0.0013	7.98E-10	2,999,160	primary	-
0.0122	0.0017	6.79E-13	3,037,440	primary	-
-0.0090	0.0011	2.25E-17	3,035,740	primary	-
-0.0117	0.0016	1.07E-13	2,989,960	primary	-
-0.0096	0.0014	4.09E-12	3,024,890	primary	-

-0.0187	0.0021	6.32E-20	3,024,010	primary	-
-0.0078	0.0011	2.43E-13	3,037,490	primary	-
0.0104	0.0011	1.38E-20	3,016,600	primary	-
0.0076	0.0011	1.43E-12	3,036,910	primary	-
-0.0197	0.0023	2.18E-17	3,013,110	primary	-
0.0084	0.0012	4.08E-12	3,037,430	primary	-
-0.0069	0.0012	9.37E-09	3,037,480	primary	-
-0.0168	0.0027	7.93E-10	2,995,550	primary	-
-0.0120	0.0011	2.40E-26	3,037,410	primary	-
-0.0094	0.0011	1.57E-16	3,024,890	primary	-
-0.0179	0.0011	1.14E-64	3,037,260	primary	-
0.0061	0.0011	6.21E-09	3,037,460	primary	-
-0.0124	0.0013	2.59E-21	3,037,470	primary	-
-0.0095	0.0011	1.33E-16	2,713,290	primary	-
0.0094	0.0015	5.43E-10	3,035,750	primary	-
-0.0114	0.0014	6.21E-16	3,024,890	primary	-
-0.0118	0.0013	6.17E-20	3,024,870	primary	-
-0.0060	0.0011	1.88E-08	3,037,500	primary	-
0.0095	0.0011	5.89E-19	3,008,410	primary	-
-0.0113	0.0015	2.72E-13	2,990,170	primary	-
-0.0082	0.0011	3.28E-14	3,024,910	primary	-
-0.0110	0.0012	8.26E-20	3,035,170	primary	-
-0.0070	0.0011	1.41E-10	3,035,740	primary	-
0.0088	0.0011	3.73E-15	3,000,810	primary	-
-0.0063	0.0011	6.27E-09	3,037,440	primary	-
-0.0098	0.0016	3.53E-10	3,034,080	primary	-
-0.0070	0.0012	1.79E-08	3,037,400	secondary	N/A
-0.0088	0.0014	1.32E-10	3,035,700	primary	rs11711322
0.0094	0.0011	2.05E-18	3,037,480	primary	-
0.0102	0.0011	7.65E-21	3,037,400	primary	-
-0.0104	0.0017	1.28E-09	3,001,770	secondary	N/A
-0.0108	0.0012	1.61E-18	2,272,170	primary	-
-0.0180	0.0012	1.12E-47	3,000,660	primary	rs67379620
-0.0125	0.0017	4.32E-13	3,037,440	primary	-
0.0079	0.0011	1.30E-13	3,033,970	primary	-
0.0065	0.0011	1.02E-09	2,996,460	primary	-
-0.0099	0.0011	9.88E-21	3,035,710	primary	-
-0.0140	0.0012	1.11E-29	3,037,400	primary	-
0.0092	0.0011	2.12E-17	3,036,940	primary	-
0.0120	0.0017	3.82E-13	3,016,630	primary	-
-0.0139	0.0011	6.88E-35	3,037,430	primary	-
0.0091	0.0011	1.16E-17	3,035,750	primary	-
0.0096	0.0014	2.95E-12	3,037,440	primary	-
-0.0378	0.0058	5.62E-11	2,949,810	primary	-
-0.0106	0.0011	2.66E-22	3,037,420	primary	-
-0.0170	0.0022	4.02E-14	3,019,110	primary	-
-0.0136	0.0012	9.49E-28	3,037,400	primary	-
0.0119	0.0013	4.41E-20	3,037,460	primary	-

-0.0279	0.0046	1.35E-09	2,973,590	primary	-
-0.0516	0.0073	1.28E-12	2,914,900	primary	-
0.0077	0.0013	2.59E-09	2,969,910	primary	-
0.0088	0.0014	2.48E-10	3,033,360	primary	-
-0.0120	0.0012	5.22E-25	3,037,400	primary	-
0.0084	0.0011	2.43E-15	2,983,130	primary	-
0.0079	0.0011	3.34E-12	3,035,660	primary	-
-0.0068	0.0011	1.84E-10	3,035,670	primary	-
0.0071	0.0012	9.04E-10	3,035,660	primary	-
-0.0139	0.0012	3.57E-30	3,035,600	primary	-
0.0083	0.0012	7.22E-12	3,035,670	primary	-
-0.0068	0.0012	5.91E-09	3,033,950	secondary	N/A
0.0104	0.0012	2.55E-17	3,035,730	primary	rs6438720
-0.0133	0.0012	2.98E-30	3,036,850	primary	-
-0.0066	0.0011	5.40E-10	3,024,960	primary	-
0.0090	0.0013	3.42E-12	3,037,440	primary	-
0.0095	0.0014	1.85E-12	3,035,720	primary	-
0.0195	0.0014	9.09E-42	3,037,300	primary	-
-0.0152	0.0022	1.53E-12	3,034,070	primary	-
0.0088	0.0015	1.19E-09	3,001,980	primary	-
-0.0084	0.0011	5.93E-15	3,037,440	primary	-
-0.0091	0.0011	1.37E-17	3,037,430	primary	-
-0.0088	0.0011	3.09E-16	3,037,420	primary	-
-0.0075	0.0011	1.99E-11	3,037,470	primary	-
-0.0086	0.0012	1.86E-13	3,037,470	primary	-
0.0093	0.0011	1.98E-18	3,037,440	primary	-
-0.0136	0.0019	9.84E-13	3,036,920	primary	-
0.0100	0.0014	2.05E-13	3,037,440	primary	-
0.0062	0.0011	6.88E-09	3,037,520	primary	-
-0.0095	0.0011	8.04E-19	3,037,470	primary	-
-0.0107	0.0011	6.45E-24	3,035,700	primary	-
-0.0081	0.0011	1.45E-14	3,036,900	primary	-
0.0064	0.0011	1.42E-09	3,035,040	primary	-
-0.0077	0.0011	2.30E-13	3,033,260	primary	-
-0.0131	0.0011	1.93E-34	3,000,760	primary	-
0.0077	0.0012	2.89E-10	3,037,490	primary	-
-0.0288	0.0040	3.47E-13	2,975,110	primary	-
0.0089	0.0012	1.08E-13	3,037,450	primary	-
-0.0068	0.0011	2.23E-09	3,034,080	primary	-
-0.0096	0.0013	7.80E-14	3,037,450	primary	-
0.0114	0.0012	1.80E-21	3,035,740	primary	rs6805849
-0.0101	0.0015	1.62E-11	3,037,480	secondary	N/A
0.0095	0.0013	1.25E-12	3,032,430	primary	-
0.0100	0.0013	1.06E-14	3,033,190	primary	-
0.0073	0.0011	6.24E-11	3,035,750	primary	-
0.0104	0.0011	1.69E-20	3,037,420	primary	-
-0.0164	0.0013	1.34E-34	3,037,400	primary	-
0.0085	0.0015	6.44E-09	3,035,030	primary	-

0.0101	0.0016	2.03E-10	3,023,200	primary	-
0.0107	0.0015	3.65E-13	3,037,460	primary	-
0.0071	0.0011	3.11E-11	3,035,740	primary	-
0.0074	0.0012	3.25E-10	3,035,760	primary	-
0.0085	0.0011	2.47E-15	3,037,480	primary	-
0.0066	0.0011	3.39E-10	3,032,640	primary	-
0.0093	0.0011	2.41E-18	3,037,440	primary	-
0.0139	0.0012	4.11E-30	3,037,390	primary	-
-0.0096	0.0012	5.44E-16	3,037,470	primary	-
0.0065	0.0011	1.78E-09	3,037,480	primary	-
0.0077	0.0011	1.67E-12	3,022,520	primary	-
-0.0078	0.0012	1.82E-11	3,037,500	primary	-
-0.0172	0.0015	2.19E-31	3,037,390	primary	-
-0.0073	0.0011	8.36E-12	3,029,120	primary	-
0.0101	0.0011	1.72E-19	3,037,420	primary	-
0.0115	0.0012	1.99E-20	3,037,440	primary	-
-0.0118	0.0016	5.96E-13	3,022,080	primary	-
0.0064	0.0011	1.20E-09	3,034,220	primary	-
-0.0117	0.0012	2.03E-21	3,023,150	primary	-
0.0081	0.0014	6.27E-09	3,037,490	primary	-
0.0120	0.0016	2.62E-13	3,035,740	primary	-
-0.0066	0.0011	2.41E-09	2,985,790	primary	-
0.0068	0.0011	1.14E-10	3,036,950	primary	-
-0.0072	0.0012	3.33E-09	3,015,240	primary	-
-0.0093	0.0011	1.46E-18	3,037,430	primary	-
0.0061	0.0011	1.20E-08	3,035,780	primary	-
0.0126	0.0014	6.67E-20	3,037,450	primary	-
0.0109	0.0017	1.80E-10	2,944,900	primary	-
-0.0111	0.0019	4.02E-09	3,028,880	primary	-
-0.0078	0.0013	2.42E-09	2,947,550	primary	-
-0.0086	0.0011	6.59E-15	2,995,310	primary	-
-0.0093	0.0013	2.07E-13	3,021,420	primary	-
0.0152	0.0013	4.49E-33	3,021,410	primary	-
-0.0161	0.0021	1.62E-14	3,033,610	primary	-
-0.0077	0.0012	2.67E-10	3,011,760	primary	-
0.0088	0.0012	1.71E-12	3,034,050	primary	-
0.0058	0.0011	3.09E-08	3,035,750	primary	-
-0.0151	0.0011	3.17E-42	3,037,340	primary	-
-0.0064	0.0011	1.42E-09	3,037,480	primary	-
0.0089	0.0014	5.03E-10	3,035,750	primary	-
0.0072	0.0012	5.86E-10	3,035,770	primary	-
-0.0072	0.0012	7.19E-10	3,033,330	primary	-
0.0062	0.0011	4.68E-09	3,035,560	primary	-
0.0063	0.0011	2.92E-09	3,037,440	primary	-
0.0088	0.0012	1.90E-14	3,037,440	primary	-
-0.0070	0.0011	1.05E-09	3,023,210	primary	-
0.0077	0.0013	7.73E-09	3,035,770	primary	-
0.0065	0.0011	1.28E-09	3,037,440	primary	-

-0.0061	0.0011	3.69E-08	3,037,490	primary	-
0.0062	0.0011	6.25E-09	3,037,480	primary	-
0.0067	0.0012	1.24E-08	3,037,480	primary	-
-0.0089	0.0011	9.17E-16	3,035,740	primary	-
0.0079	0.0011	6.39E-14	3,036,890	primary	-
-0.0094	0.0012	5.07E-16	3,037,400	primary	-
0.0060	0.0011	1.52E-08	3,035,790	primary	-
0.0278	0.0029	1.08E-21	3,035,040	secondary	N/A
0.0117	0.0016	5.41E-14	3,037,400	primary	-
0.0331	0.0028	5.41E-33	3,037,420	primary	rs73242122
-0.0090	0.0012	2.54E-14	3,037,440	primary	-
0.0070	0.0011	5.76E-11	3,024,950	primary	-
0.0089	0.0016	1.45E-08	3,037,450	primary	-
0.0131	0.0011	4.63E-34	3,023,080	primary	-
-0.0119	0.0014	2.33E-17	3,024,880	primary	-
-0.0154	0.0026	5.11E-09	3,004,320	primary	-
-0.0066	0.0011	6.63E-10	3,036,980	primary	-
-0.0090	0.0011	1.47E-17	3,037,420	primary	-
-0.0064	0.0011	1.80E-09	3,037,470	primary	-
-0.0076	0.0011	5.13E-13	3,037,420	primary	-
0.0131	0.0013	6.20E-25	2,861,380	primary	-
-0.0090	0.0013	2.95E-12	3,037,490	primary	-
0.0175	0.0028	2.79E-10	2,999,080	primary	-
-0.0073	0.0011	5.04E-11	3,037,400	primary	-
0.0151	0.0015	1.67E-24	3,037,380	primary	-
-0.0083	0.0011	1.21E-13	3,037,490	primary	-
-0.0131	0.0013	2.68E-23	3,037,410	primary	-
0.0088	0.0011	9.90E-15	3,037,420	primary	-
0.0068	0.0012	1.25E-08	3,036,910	primary	-
0.0063	0.0011	8.15E-09	3,037,450	primary	-
0.0078	0.0012	6.88E-11	3,035,730	primary	-
-0.0075	0.0011	5.38E-12	3,035,760	primary	-
0.0109	0.0011	6.90E-25	3,037,400	primary	-
0.0120	0.0012	9.11E-23	2,272,110	primary	-
0.0351	0.0062	1.43E-08	2,823,100	primary	-
0.0084	0.0011	2.89E-15	3,037,430	primary	-
-0.0117	0.0016	6.37E-13	3,027,030	primary	-
0.0084	0.0014	1.21E-09	3,019,040	primary	-
0.0085	0.0011	6.98E-15	3,020,750	primary	-
-0.0068	0.0011	4.15E-10	3,037,450	primary	-
0.0117	0.0017	1.46E-12	3,017,420	primary	-
0.0070	0.0011	8.76E-11	3,035,520	primary	-
-0.0089	0.0016	1.09E-08	3,037,460	primary	-
-0.0069	0.0011	2.17E-10	3,011,200	primary	-
-0.0084	0.0011	4.14E-15	3,037,440	primary	-
-0.0090	0.0016	1.51E-08	3,037,490	primary	-
0.0094	0.0012	3.54E-16	3,035,750	primary	-
-0.0206	0.0036	8.35E-09	3,024,900	primary	-

0.0106	0.0018	8.23E-09	2,991,730	primary	-
-0.0081	0.0011	5.78E-14	3,024,920	primary	-
0.0065	0.0011	4.93E-09	3,037,470	primary	-
-0.0069	0.0011	1.24E-10	3,023,190	primary	-
-0.0075	0.0011	1.37E-12	3,037,460	primary	-
0.0107	0.0011	1.47E-23	3,037,420	primary	-
-0.0084	0.0011	1.36E-14	3,037,500	primary	-
-0.0096	0.0011	1.92E-17	3,032,440	primary	-
-0.0063	0.0011	3.40E-09	3,037,470	primary	-
0.0093	0.0012	1.67E-15	3,037,430	primary	-
-0.0133	0.0011	1.29E-33	3,037,350	primary	-
-0.0072	0.0013	2.42E-08	3,037,410	primary	-
-0.0099	0.0015	1.56E-11	3,037,450	primary	-
0.0101	0.0016	3.60E-10	3,037,460	primary	-
-0.0131	0.0020	2.92E-11	3,035,240	primary	-
0.0080	0.0011	3.68E-14	3,024,900	primary	-
0.0215	0.0030	5.47E-13	2,834,210	primary	-
0.0069	0.0011	6.65E-11	3,037,440	primary	-
0.0096	0.0011	2.68E-18	3,031,830	primary	-
0.0088	0.0011	4.14E-15	3,033,240	primary	-
0.0106	0.0011	1.61E-21	3,035,700	primary	-
-0.0116	0.0016	7.88E-13	2,964,790	primary	-
0.0134	0.0013	2.54E-26	3,024,860	primary	-
-0.0101	0.0018	1.04E-08	3,005,750	primary	-
-0.0070	0.0012	1.02E-09	2,991,400	primary	-
-0.0098	0.0011	1.19E-18	3,037,490	primary	-
0.0091	0.0013	4.24E-13	3,023,180	primary	-
0.0228	0.0038	2.26E-09	2,987,920	primary	-
-0.0115	0.0011	9.17E-24	3,037,410	primary	-
0.0079	0.0011	3.80E-13	3,037,460	primary	-
0.0072	0.0011	1.87E-11	3,037,470	primary	-
0.0100	0.0013	9.45E-15	3,037,480	primary	-
-0.0178	0.0031	6.21E-09	3,014,900	primary	-
-0.0093	0.0011	1.45E-18	3,037,480	primary	-
0.0327	0.0019	8.36E-68	3,018,960	primary	-
0.0072	0.0012	6.03E-09	2,997,440	primary	-
0.0078	0.0013	9.30E-10	3,031,630	primary	-
0.0208	0.0024	5.27E-18	3,033,630	primary	-
0.0123	0.0012	5.58E-24	2,397,530	primary	-
-0.0262	0.0046	1.26E-08	2,879,930	primary	-
-0.0076	0.0012	3.99E-10	3,033,320	primary	-
0.0082	0.0014	9.26E-09	3,035,760	primary	-
-0.0094	0.0015	1.21E-10	3,028,350	primary	-
0.0118	0.0016	8.97E-14	3,037,450	primary	-
0.0060	0.0011	2.12E-08	3,036,930	primary	-
-0.0078	0.0011	4.70E-12	3,037,450	primary	-
-0.0068	0.0011	6.03E-10	3,035,770	primary	-
-0.0118	0.0021	3.81E-08	3,037,480	primary	-

0.0107	0.0012	1.70E-20	3,036,880	primary	-
-0.0079	0.0013	1.37E-09	2,272,180	primary	-
-0.0072	0.0011	4.73E-11	3,037,470	primary	-
0.0167	0.0019	3.32E-18	3,023,210	primary	-
-0.0165	0.0025	2.18E-11	3,037,460	primary	-
0.0076	0.0012	1.64E-10	3,036,890	primary	-
-0.0073	0.0011	9.74E-12	3,000,820	primary	-
0.0071	0.0011	3.43E-10	2,964,500	primary	-
-0.0107	0.0013	5.43E-16	3,024,920	primary	-
-0.0143	0.0025	1.01E-08	2,985,030	primary	-
0.0106	0.0011	1.85E-22	3,037,410	primary	-
0.0069	0.0012	5.70E-09	3,035,030	primary	-
0.0097	0.0017	5.62E-09	3,037,480	primary	-
0.0077	0.0011	3.11E-13	3,033,310	primary	-
-0.0078	0.0011	2.87E-13	3,023,250	primary	-
-0.0171	0.0031	4.63E-08	3,020,780	primary	-
-0.0096	0.0012	9.99E-17	3,037,400	primary	-
0.0139	0.0011	1.09E-33	3,037,350	primary	-
-0.0148	0.0021	9.70E-13	3,037,470	primary	-
0.0068	0.0013	4.69E-08	3,037,470	primary	-
-0.0183	0.0015	2.02E-33	3,037,440	primary	rs1437261
0.0108	0.0016	1.48E-11	2,596,370	secondary	N/A
0.0084	0.0014	1.65E-09	3,037,480	primary	-
-0.0085	0.0012	7.79E-13	2,998,930	primary	rs535013
-0.0081	0.0014	2.05E-08	3,037,480	secondary	N/A
0.0082	0.0012	4.87E-11	3,035,040	primary	-
-0.0089	0.0014	5.65E-11	3,037,470	primary	-
0.0105	0.0015	1.01E-12	3,037,500	primary	-
-0.0167	0.0020	1.56E-17	2,939,850	primary	-
0.0119	0.0012	3.94E-25	3,037,420	primary	-
0.0084	0.0014	6.30E-10	2,272,180	primary	-
0.0064	0.0011	1.89E-08	3,037,450	secondary	N/A
-0.0083	0.0011	3.76E-13	3,037,420	primary	rs1893953
-0.0133	0.0018	8.95E-14	3,037,480	primary	-
0.0132	0.0018	7.65E-14	3,037,490	primary	-
-0.0085	0.0011	5.64E-14	3,033,270	primary	-
0.0101	0.0012	1.45E-17	3,037,410	primary	-
0.0070	0.0011	4.51E-11	3,037,500	primary	-
-0.0109	0.0011	3.42E-23	3,037,420	primary	-
-0.0302	0.0052	4.52E-09	2,955,320	primary	-
0.0101	0.0015	6.88E-11	3,035,760	primary	-
-0.0067	0.0011	2.48E-10	3,022,530	primary	-
-0.0128	0.0020	1.73E-10	3,015,100	primary	-
-0.0084	0.0011	4.98E-15	3,035,750	primary	-
-0.0125	0.0012	4.44E-25	3,023,140	primary	-
-0.0068	0.0011	2.26E-10	3,035,770	primary	-
0.0158	0.0015	1.46E-27	3,037,360	primary	-
0.0067	0.0011	2.04E-09	3,014,600	primary	-

0.0082	0.0011	1.79E-14	3,037,420	primary	-
0.0087	0.0014	7.63E-10	3,037,480	primary	-
0.0108	0.0012	9.71E-20	3,037,460	primary	-
0.0120	0.0011	1.57E-29	3,034,950	primary	-
0.0085	0.0011	6.92E-16	3,037,460	primary	-
-0.0114	0.0011	8.06E-25	3,037,390	primary	-
-0.0069	0.0011	7.71E-11	3,018,190	primary	-
0.0074	0.0011	2.80E-11	3,037,490	primary	-
-0.0068	0.0011	2.08E-10	3,035,780	primary	-
-0.0072	0.0011	3.46E-11	3,037,500	primary	-
0.0065	0.0011	4.05E-09	3,035,740	primary	-
-0.0092	0.0011	5.31E-17	3,035,750	primary	-
-0.0066	0.0012	1.53E-08	2,977,100	primary	-
0.0073	0.0011	1.54E-11	3,037,460	primary	-
-0.0116	0.0014	9.99E-17	3,013,370	primary	-
-0.0091	0.0011	1.62E-17	3,037,460	primary	-
0.0097	0.0012	4.86E-17	3,035,730	primary	-
0.0060	0.0011	1.98E-08	3,037,460	primary	-
-0.0066	0.0011	3.68E-10	3,035,740	primary	-
0.0066	0.0011	1.22E-09	3,037,500	primary	-
0.0125	0.0016	1.16E-14	3,012,810	primary	-
-0.0128	0.0012	5.38E-28	3,032,740	primary	-
-0.0069	0.0012	9.26E-09	3,033,360	primary	-
0.0064	0.0011	9.66E-10	3,037,470	primary	-
0.0087	0.0011	3.36E-14	3,034,020	primary	-
-0.0101	0.0014	1.87E-13	3,034,050	primary	-
0.0088	0.0015	8.77E-09	3,037,500	primary	-
-0.0072	0.0011	2.03E-11	2,978,330	primary	-
-0.0065	0.0011	1.17E-09	3,024,630	primary	-
-0.0091	0.0011	3.47E-17	3,034,420	primary	-
-0.0087	0.0013	1.04E-11	3,034,980	primary	-
-0.0099	0.0017	2.15E-09	2,997,610	primary	-
-0.0096	0.0011	1.18E-17	3,036,660	primary	-
0.0105	0.0017	6.55E-10	2,859,860	primary	-
-0.0079	0.0011	1.30E-13	3,036,670	primary	-
-0.0067	0.0012	6.01E-09	3,036,710	primary	-
0.0097	0.0016	5.59E-10	2,990,320	primary	-
0.0092	0.0011	3.14E-18	3,036,120	primary	-
0.0109	0.0015	1.26E-12	3,032,540	primary	-
-0.0082	0.0011	2.47E-13	3,036,660	primary	-
-0.0144	0.0013	3.71E-29	2,997,630	primary	-
-0.0063	0.0011	1.09E-08	3,015,790	primary	-
0.0076	0.0012	9.35E-11	3,036,660	primary	-
0.0087	0.0014	1.90E-10	3,007,550	primary	-
0.0226	0.0040	1.72E-08	3,029,540	primary	-
-0.0090	0.0012	5.04E-13	3,036,600	secondary	N/A
-0.0098	0.0012	2.40E-15	3,034,870	primary	rs10940919
0.0098	0.0014	1.36E-11	3,036,660	primary	-

0.0067	0.0011	1.94E-10	3,034,930	primary	-
-0.0101	0.0017	1.57E-09	3,036,660	primary	-
0.0081	0.0011	6.98E-14	3,034,960	primary	-
-0.0190	0.0024	2.86E-15	3,029,940	primary	-
-0.0081	0.0011	1.48E-14	3,036,640	primary	-
-0.0083	0.0013	1.94E-10	3,036,660	primary	-
0.0156	0.0016	2.95E-22	3,036,620	primary	rs435713
0.0077	0.0013	5.29E-09	3,036,690	secondary	N/A
0.0083	0.0012	6.67E-13	3,036,670	primary	-
-0.0071	0.0011	6.39E-11	3,034,960	primary	-
0.0059	0.0011	3.73E-08	3,036,660	primary	-
0.0081	0.0011	2.38E-14	3,036,670	primary	-
0.0098	0.0011	1.72E-18	3,036,620	primary	-
0.0069	0.0011	2.20E-09	3,036,120	primary	-
-0.0131	0.0012	1.17E-28	3,036,620	primary	-
0.0103	0.0014	2.31E-14	3,036,680	primary	-
-0.0121	0.0022	4.71E-08	3,003,700	primary	-
0.0093	0.0013	3.95E-13	3,036,650	primary	-
-0.0089	0.0011	1.98E-15	3,036,630	primary	-
-0.0115	0.0012	3.43E-21	3,036,540	primary	-
-0.0145	0.0011	2.80E-37	3,035,820	primary	-
-0.0166	0.0015	7.27E-29	3,034,790	primary	-
0.0108	0.0016	2.42E-11	3,035,790	primary	-
-0.0079	0.0011	1.17E-13	3,036,690	primary	-
-0.0124	0.0021	4.37E-09	3,003,180	secondary	N/A
-0.0179	0.0021	2.41E-17	3,036,710	primary	rs1812798
-0.0082	0.0013	6.35E-11	3,034,890	secondary	N/A
-0.0099	0.0012	2.18E-17	3,036,560	primary	rs2365396
0.0110	0.0014	1.48E-14	3,034,030	primary	-
-0.0180	0.0030	1.47E-09	2,843,030	primary	-
0.0174	0.0018	1.24E-22	3,036,640	primary	-
-0.0104	0.0012	6.29E-17	3,024,140	primary	-
0.0092	0.0015	2.13E-09	3,034,950	primary	-
-0.0107	0.0014	4.81E-15	3,024,130	primary	-
0.0079	0.0012	1.33E-10	3,035,760	primary	-
-0.0184	0.0014	6.43E-38	3,022,280	primary	-
-0.0072	0.0012	1.95E-09	3,036,170	primary	-
0.0122	0.0016	9.37E-14	3,032,550	primary	-
-0.0070	0.0011	9.90E-11	3,034,980	primary	-
0.0120	0.0017	8.15E-13	3,036,700	primary	-
0.0092	0.0014	9.55E-11	3,036,660	primary	-
0.0069	0.0012	3.80E-09	3,036,720	primary	-
0.0066	0.0011	1.67E-09	3,035,000	primary	-
0.0553	0.0097	1.12E-08	2,912,860	primary	-
-0.0078	0.0011	1.70E-13	3,034,940	primary	-
0.0068	0.0012	1.78E-08	3,024,160	secondary	N/A
-0.0132	0.0014	7.65E-21	3,036,700	primary	rs252761
-0.0096	0.0011	6.16E-19	3,036,660	primary	-

0.0059	0.0011	2.07E-08	3,036,130	primary	-
-0.0094	0.0012	1.33E-15	3,019,990	primary	-
0.0073	0.0013	1.39E-08	3,036,640	primary	-
-0.0128	0.0020	1.08E-10	3,036,680	primary	-
0.0112	0.0019	3.06E-09	2,544,010	primary	-
-0.0065	0.0011	4.09E-09	3,036,680	primary	-
-0.0092	0.0011	2.87E-18	3,036,690	primary	-
-0.0084	0.0011	2.80E-14	3,036,730	primary	-
-0.0248	0.0039	1.85E-10	3,003,940	secondary	N/A
0.0127	0.0015	2.41E-17	2,815,170	primary	rs147946601
0.0127	0.0018	1.78E-12	3,022,250	primary	-
0.0149	0.0012	9.51E-33	3,034,790	primary	rs34316
0.0130	0.0012	1.23E-26	2,999,840	secondary	N/A
0.0075	0.0011	3.07E-11	3,036,630	primary	-
0.0096	0.0011	7.76E-17	3,034,910	primary	-
0.0107	0.0015	8.84E-13	2,998,330	primary	-
-0.0093	0.0016	2.78E-09	3,032,530	primary	-
0.0117	0.0013	3.92E-19	3,036,610	primary	-
0.0112	0.0012	3.64E-21	3,034,900	primary	-
0.0082	0.0013	1.33E-10	3,036,160	primary	-
0.0100	0.0014	4.50E-12	3,036,670	primary	-
-0.0137	0.0011	4.17E-34	3,036,600	primary	-
-0.0095	0.0014	4.49E-11	3,036,690	primary	-
0.0254	0.0027	9.22E-22	3,016,020	secondary	N/A
-0.0132	0.0011	2.22E-32	3,010,140	primary	-
-0.0285	0.0040	6.47E-13	2,937,160	primary	-
0.0284	0.0016	2.37E-72	3,036,060	primary	rs12188716
0.0088	0.0011	2.97E-16	3,036,670	primary	-
-0.0070	0.0012	2.14E-09	3,034,990	primary	-
-0.0168	0.0024	4.80E-12	3,025,570	primary	-
-0.0084	0.0013	7.52E-11	3,036,680	primary	-
0.0192	0.0028	7.41E-12	3,021,780	primary	-
0.0083	0.0012	6.49E-12	3,024,150	primary	-
-0.0108	0.0013	6.80E-16	3,036,610	primary	rs74944275
0.0164	0.0028	7.34E-09	3,001,410	secondary	N/A
0.0163	0.0012	2.94E-44	3,036,520	primary	-
-0.0070	0.0012	9.95E-09	3,036,660	primary	-
-0.0069	0.0011	6.99E-10	3,029,350	primary	-
0.0097	0.0015	1.06E-10	3,036,710	primary	-
0.0098	0.0013	2.83E-14	3,024,090	primary	-
0.0081	0.0011	2.94E-13	3,036,610	primary	-
-0.0142	0.0021	1.34E-11	3,036,700	primary	-
0.0128	0.0011	4.28E-30	3,036,620	primary	-
-0.0076	0.0013	5.92E-09	3,032,550	primary	-
-0.0093	0.0011	1.08E-18	3,036,630	primary	-
-0.0124	0.0011	3.22E-28	3,032,490	primary	-
-0.0074	0.0012	1.18E-09	3,024,160	primary	-
-0.0096	0.0017	1.04E-08	3,036,670	primary	-

-0.0149	0.0023	9.58E-11	3,036,140	primary	-
-0.0066	0.0011	5.16E-09	3,034,980	primary	-
0.0083	0.0014	5.12E-09	3,033,260	primary	-
-0.0060	0.0011	4.27E-08	3,036,690	primary	-
0.0337	0.0039	6.04E-18	3,016,340	primary	-
0.0079	0.0014	4.20E-08	3,036,680	primary	-
0.0076	0.0013	1.37E-08	3,022,450	primary	-
0.0148	0.0013	2.64E-29	3,036,630	primary	-
0.0074	0.0011	1.38E-11	3,024,170	primary	-
-0.0151	0.0023	6.00E-11	3,021,030	primary	-
0.0076	0.0011	1.56E-11	3,034,920	primary	-
0.0167	0.0028	3.08E-09	3,026,710	primary	-
-0.0128	0.0011	5.67E-29	3,005,350	primary	-
0.0080	0.0011	1.13E-13	3,036,660	primary	-
0.0525	0.0034	6.78E-54	3,035,010	secondary	N/A
-0.0570	0.0032	9.25E-73	2,970,620	primary	rs1962848,rs13156123
0.0121	0.0013	3.44E-20	3,004,860	secondary	N/A
-0.0332	0.0033	6.70E-24	3,015,400	primary	-
-0.0253	0.0036	1.40E-12	3,034,830	primary	-
-0.0074	0.0012	1.50E-10	3,036,700	primary	-
0.0076	0.0011	5.98E-12	3,029,250	primary	-
0.0076	0.0011	1.10E-12	3,032,530	primary	-
-0.0094	0.0014	3.70E-12	3,036,660	primary	-
-0.0078	0.0011	4.18E-13	3,034,910	primary	-
-0.0073	0.0012	1.36E-09	3,000,030	primary	-
0.0154	0.0011	2.09E-47	3,036,580	primary	-
-0.0110	0.0013	1.39E-17	3,000,030	primary	-
0.0148	0.0015	7.69E-23	3,036,610	primary	-
-0.0098	0.0015	5.85E-11	3,036,660	primary	-
0.0112	0.0013	4.32E-19	3,036,670	primary	-
-0.0102	0.0012	1.28E-17	3,036,640	primary	-
0.0089	0.0011	5.26E-17	3,034,410	primary	-
-0.0124	0.0013	1.96E-22	3,036,580	primary	-
-0.0244	0.0038	1.29E-10	2,999,260	primary	-
0.0148	0.0021	1.49E-12	3,021,450	primary	-
0.0068	0.0012	4.88E-08	3,036,650	primary	-
-0.0100	0.0015	1.04E-10	3,018,290	primary	-
0.0140	0.0018	3.76E-14	3,033,270	primary	-
-0.0106	0.0011	1.19E-21	3,024,080	primary	-
-0.0085	0.0013	6.12E-11	3,036,670	primary	-
0.0065	0.0011	5.94E-10	3,036,710	primary	-
0.0144	0.0024	1.35E-09	2,934,010	primary	-
-0.0074	0.0011	5.91E-11	3,036,690	primary	-
-0.0097	0.0013	1.35E-14	3,031,940	primary	-
-0.0069	0.0012	6.84E-09	3,036,690	primary	-
0.0112	0.0011	7.68E-23	3,036,640	primary	-
-0.0083	0.0013	2.11E-10	3,032,700	primary	-
0.0060	0.0011	1.37E-08	3,036,700	primary	-

-0.0089	0.0013	4.13E-12	3,036,640	primary	-
0.0081	0.0014	1.26E-08	2,713,330	primary	-
-0.0067	0.0011	2.69E-10	3,036,680	primary	-
0.0075	0.0012	4.27E-10	3,036,660	primary	-
0.0087	0.0012	1.03E-12	3,032,530	primary	-
-0.0513	0.0092	2.09E-08	2,909,100	primary	-
-0.0112	0.0012	3.22E-20	3,036,660	primary	-
-0.0111	0.0013	4.58E-18	3,020,720	primary	-
-0.0356	0.0048	1.60E-13	3,006,540	primary	-
-0.0083	0.0011	1.19E-14	3,036,700	primary	-
0.0473	0.0075	2.68E-10	2,713,330	primary	-
-0.0059	0.0011	2.47E-08	3,024,180	primary	-
0.0105	0.0016	6.95E-11	3,034,240	primary	-
-0.0090	0.0014	6.37E-11	3,036,680	primary	-
0.0084	0.0013	5.56E-11	3,024,120	primary	-
0.0072	0.0011	2.11E-11	3,036,710	primary	-
-0.0145	0.0012	2.44E-35	3,022,340	primary	-
0.0072	0.0011	6.48E-11	3,034,950	primary	-
-0.0082	0.0011	8.00E-15	3,034,850	primary	-
0.0101	0.0011	1.51E-19	3,036,670	primary	-
0.0097	0.0011	9.69E-20	3,036,670	primary	-
0.0073	0.0011	1.95E-10	3,036,690	primary	-
-0.0079	0.0014	1.51E-08	3,036,660	primary	-
0.0094	0.0014	5.22E-11	3,034,950	primary	-
0.0085	0.0011	9.59E-15	3,011,550	primary	-
-0.0070	0.0011	5.06E-10	3,034,980	primary	-
-0.0122	0.0018	3.45E-11	3,036,660	primary	-
0.0087	0.0011	3.22E-14	3,033,400	primary	-
-0.0102	0.0011	3.55E-19	3,036,650	primary	-
-0.0075	0.0011	7.36E-12	3,011,260	primary	-
-0.0157	0.0023	9.43E-12	3,026,990	primary	-
0.0124	0.0019	5.31E-11	3,034,260	primary	-
-0.0083	0.0013	1.17E-10	3,019,220	primary	-
0.0093	0.0011	1.30E-17	3,036,640	primary	-
0.0098	0.0012	1.56E-17	3,005,800	primary	-
-0.0076	0.0011	5.01E-13	3,034,930	primary	-
0.0131	0.0011	3.14E-35	3,030,530	primary	-
-0.0083	0.0011	1.35E-14	3,034,980	primary	-
-0.0067	0.0011	2.05E-09	3,005,030	primary	-
0.0059	0.0011	3.75E-08	3,029,100	primary	-
-0.0082	0.0012	9.13E-12	3,036,700	primary	-
0.0087	0.0011	1.37E-16	3,037,430	primary	-
-0.0065	0.0011	2.81E-09	3,037,480	primary	-
0.0077	0.0011	5.49E-13	3,037,470	primary	-
-0.0121	0.0016	8.35E-14	3,000,820	primary	-
0.0076	0.0011	4.82E-12	3,034,870	primary	-
-0.0105	0.0011	1.05E-21	3,024,930	primary	-
-0.0074	0.0012	1.15E-10	3,037,450	primary	-

-0.0124	0.0014	1.67E-19	3,037,440	primary	-
0.0121	0.0017	2.40E-12	3,037,460	primary	-
-0.0154	0.0014	2.48E-29	3,032,330	primary	-
0.0077	0.0012	1.43E-10	3,019,950	primary	-
-0.0080	0.0011	1.64E-13	3,008,530	primary	-
0.0296	0.0052	1.25E-08	2,972,600	primary	-
0.0115	0.0011	1.19E-26	3,036,850	primary	-
0.0096	0.0013	2.29E-13	3,037,510	secondary	N/A
-0.0225	0.0013	1.78E-67	3,035,600	primary	rs2025124
0.0109	0.0013	5.53E-16	3,024,910	primary	-
0.0086	0.0012	2.23E-13	3,036,970	primary	-
-0.0164	0.0014	1.37E-31	3,037,370	primary	-
0.0368	0.0064	6.73E-09	2,950,650	primary	-
-0.0094	0.0011	2.82E-19	3,037,470	primary	-
0.0073	0.0013	7.30E-09	3,037,480	primary	-
0.0159	0.0011	2.21E-44	3,035,660	primary	-
0.0127	0.0011	1.54E-30	3,037,350	primary	-
-0.0062	0.0011	2.06E-08	3,015,270	primary	-
-0.0114	0.0011	2.53E-24	3,035,690	primary	-
0.0212	0.0038	2.22E-08	2,196,620	primary	-
0.0096	0.0012	1.89E-15	3,037,420	primary	-
0.0148	0.0014	1.06E-25	2,519,950	primary	-
0.0094	0.0014	1.28E-11	2,961,150	secondary	N/A
-0.0352	0.0022	5.98E-58	2,227,040	primary	rs1362104,rs1110464
-0.0293	0.0030	7.58E-23	2,956,910	primary	-
0.0308	0.0021	7.97E-51	2,918,710	secondary	N/A
-0.0208	0.0030	6.75E-12	2,928,990	primary	-
0.0226	0.0016	3.78E-45	3,035,750	primary	-
-0.0193	0.0019	2.93E-24	3,030,660	primary	-
0.0356	0.0052	1.02E-11	1,660,250	primary	-
-0.0111	0.0014	9.07E-15	3,032,360	primary	-
-0.0113	0.0014	6.56E-17	3,028,200	primary	-
-0.0102	0.0014	3.53E-13	3,010,730	primary	-
0.0382	0.0058	4.32E-11	2,957,060	primary	-
0.0079	0.0011	2.41E-12	3,037,480	primary	-
0.0065	0.0011	6.83E-10	3,036,930	primary	-
-0.0089	0.0013	4.76E-12	2,999,100	primary	-
0.0319	0.0048	3.63E-11	2,995,360	primary	-
-0.0117	0.0012	1.27E-23	3,037,440	primary	-
0.0105	0.0013	7.57E-16	2,272,170	primary	-
-0.0063	0.0011	6.08E-09	3,037,480	primary	-
0.0106	0.0011	2.36E-23	3,035,700	primary	-
-0.0235	0.0033	1.17E-12	3,029,320	primary	-
0.0139	0.0019	1.19E-12	3,024,920	primary	-
0.0076	0.0011	6.00E-13	3,037,460	primary	-
0.0090	0.0013	1.30E-11	3,037,500	primary	-
0.0095	0.0011	2.75E-17	3,035,730	primary	-
-0.0089	0.0012	2.25E-13	3,037,460	primary	-

0.0152	0.0023	3.28E-11	2,999,740	primary	-
-0.0064	0.0011	1.39E-09	3,037,450	primary	-
0.0075	0.0011	8.56E-13	3,037,450	primary	-
-0.0229	0.0022	2.10E-25	3,036,910	primary	-
0.0076	0.0012	1.54E-10	3,037,460	primary	-
-0.0110	0.0014	1.10E-15	3,024,920	primary	-
-0.0100	0.0012	2.68E-17	3,035,760	primary	-
-0.0091	0.0013	4.86E-12	3,037,450	primary	-
0.0088	0.0013	7.09E-12	3,035,250	primary	-
0.0101	0.0012	2.70E-18	3,037,470	primary	-
0.0113	0.0013	4.58E-19	3,037,460	primary	-
0.0063	0.0011	1.63E-08	3,035,540	primary	-
0.0105	0.0014	9.94E-15	3,036,900	primary	-
-0.0069	0.0011	1.36E-09	3,037,500	primary	-
0.0122	0.0018	9.05E-12	3,037,480	primary	-
0.0083	0.0011	4.00E-14	3,024,950	primary	-
0.0436	0.0047	4.15E-20	2,992,210	primary	-
0.0077	0.0012	5.34E-11	3,037,470	primary	-
-0.0061	0.0011	6.65E-09	3,037,460	primary	-
-0.0070	0.0011	4.67E-11	3,037,480	primary	-
0.0076	0.0012	1.03E-10	3,037,480	primary	-
0.0082	0.0014	7.53E-09	3,020,740	primary	-
0.0097	0.0013	3.86E-13	3,030,010	primary	-
0.0073	0.0011	4.11E-11	3,000,810	primary	-
-0.0075	0.0013	4.03E-09	3,021,560	primary	-
0.0078	0.0011	1.34E-12	3,035,740	primary	-
0.0203	0.0019	1.64E-25	3,037,390	primary	-
-0.0083	0.0014	1.34E-09	3,024,940	primary	-
0.0113	0.0017	1.09E-11	3,037,490	primary	-
-0.0062	0.0011	6.63E-09	3,035,750	primary	-
0.0070	0.0012	4.47E-09	3,019,220	primary	-
-0.0120	0.0012	1.52E-22	3,037,440	primary	-
-0.0101	0.0011	2.18E-21	3,037,460	primary	-
0.0114	0.0012	9.50E-23	3,000,800	primary	-
-0.0080	0.0011	1.46E-13	3,037,450	primary	-
-0.0081	0.0011	4.72E-13	3,037,440	primary	-
0.0072	0.0012	4.23E-09	3,035,740	primary	-
-0.0103	0.0011	9.06E-22	3,035,700	primary	-
-0.0148	0.0022	1.40E-11	764,580	secondary	N/A
0.0207	0.0011	1.04E-79	3,036,510	primary	rs1933721
-0.0091	0.0011	1.09E-16	3,037,470	primary	-
-0.0068	0.0011	1.07E-09	3,037,520	primary	-
0.0096	0.0012	8.98E-15	3,035,710	primary	-
0.0092	0.0012	5.55E-14	3,035,750	primary	-
0.0066	0.0011	5.93E-09	3,035,620	primary	-
0.0074	0.0011	2.58E-11	3,000,850	primary	-
-0.0093	0.0012	3.08E-14	3,036,950	primary	-
0.0107	0.0016	1.25E-11	3,037,460	primary	-

0.0091	0.0011	1.69E-16	3,035,730	primary	-
0.0066	0.0011	4.33E-10	3,037,490	primary	-
0.0087	0.0011	9.20E-16	3,037,490	primary	-
-0.0125	0.0013	1.54E-21	3,037,410	primary	-
-0.0078	0.0011	2.33E-13	3,037,480	primary	-
-0.0203	0.0025	4.31E-16	3,037,460	primary	-
-0.0095	0.0014	4.96E-12	2,272,200	primary	-
0.0097	0.0012	6.13E-15	3,037,460	primary	-
0.0155	0.0016	5.53E-21	3,035,700	primary	-
0.0110	0.0015	3.07E-13	3,037,460	primary	-
0.0109	0.0014	6.23E-16	3,033,940	primary	-
-0.0071	0.0011	1.67E-10	3,037,440	primary	-
0.0072	0.0011	1.44E-11	3,037,470	primary	-
-0.0135	0.0011	4.44E-32	3,035,670	primary	-
-0.0092	0.0011	1.14E-15	3,037,460	primary	-
-0.0185	0.0030	5.29E-10	2,938,930	primary	-
0.0148	0.0025	4.34E-09	2,272,190	primary	-
0.0096	0.0013	7.47E-13	3,037,430	primary	-
0.0077	0.0014	2.31E-08	3,037,500	primary	-
0.0186	0.0012	1.29E-53	3,035,690	primary	rs4897189
0.0097	0.0014	5.95E-12	3,024,970	secondary	N/A
-0.0078	0.0012	1.57E-10	2,581,280	primary	-
-0.0124	0.0012	5.52E-26	3,037,400	primary	-
0.0108	0.0012	5.03E-20	3,035,740	primary	-
-0.0082	0.0012	7.62E-12	3,035,780	primary	-
0.0071	0.0012	3.75E-09	3,034,870	primary	-
0.0098	0.0011	4.67E-18	3,035,490	primary	-
-0.0120	0.0012	1.33E-22	3,037,420	primary	-
-0.0071	0.0012	7.78E-10	3,035,760	primary	-
0.0086	0.0011	5.55E-16	3,037,430	primary	-
-0.0106	0.0012	8.33E-19	3,035,680	primary	-
-0.0110	0.0018	5.00E-10	3,034,090	primary	-
-0.0067	0.0011	1.47E-10	3,037,460	primary	-
-0.0085	0.0011	2.55E-15	3,037,460	primary	-
0.0167	0.0023	9.17E-13	3,033,290	primary	-
-0.0155	0.0012	2.31E-35	3,037,360	primary	-
-0.0119	0.0020	3.95E-09	2,992,780	primary	-
0.0133	0.0021	1.19E-10	3,011,850	primary	-
-0.0113	0.0015	1.16E-13	3,037,450	primary	-
0.0146	0.0012	9.92E-37	3,009,640	primary	-
-0.0093	0.0011	4.92E-17	3,035,740	primary	-
-0.0086	0.0012	2.61E-13	3,037,470	primary	-
-0.0136	0.0020	8.16E-12	3,037,450	primary	-
-0.0091	0.0012	7.23E-15	3,037,460	primary	-
-0.0087	0.0013	1.25E-11	2,883,450	primary	-
-0.0292	0.0049	2.57E-09	2,972,190	primary	-
-0.0120	0.0012	3.10E-24	3,037,420	primary	-
0.0102	0.0013	2.52E-15	3,014,330	primary	-

-0.0083	0.0013	1.86E-10	3,035,740	primary	-
0.0146	0.0020	4.03E-13	3,022,470	primary	-
0.0093	0.0011	1.96E-16	3,024,900	primary	-
0.0070	0.0012	1.19E-08	3,037,450	primary	-
0.0074	0.0012	2.32E-09	3,037,440	primary	-
-0.0087	0.0012	2.48E-12	3,021,650	primary	-
-0.0072	0.0011	2.19E-11	3,037,440	primary	-
-0.0077	0.0012	3.34E-10	2,713,280	primary	-
0.0109	0.0012	7.78E-19	3,017,250	primary	-
-0.0085	0.0011	1.21E-13	3,037,460	primary	-
-0.0078	0.0013	2.56E-09	3,029,390	primary	-
-0.0097	0.0013	3.53E-14	2,272,160	primary	-
-0.0104	0.0011	9.26E-21	3,033,300	primary	-
0.0113	0.0015	7.23E-14	3,020,870	primary	-
-0.0080	0.0012	3.31E-12	2,997,860	primary	-
0.0168	0.0013	1.58E-37	3,033,680	primary	-
0.0262	0.0035	1.19E-13	2,987,680	primary	-
0.0153	0.0013	9.75E-33	3,037,340	primary	-
0.0164	0.0028	5.49E-09	2,536,930	primary	-
0.0133	0.0011	3.36E-36	3,037,380	primary	-
-0.0079	0.0012	1.96E-10	3,035,740	primary	-
-0.0077	0.0012	4.37E-10	3,028,110	primary	-
-0.0073	0.0011	1.92E-10	2,999,490	primary	-
0.0173	0.0029	4.52E-09	2,916,820	primary	-
0.0093	0.0011	7.46E-19	3,037,420	primary	-
-0.0064	0.0011	1.18E-09	3,027,840	primary	-
0.0084	0.0013	4.15E-10	3,019,060	primary	-
0.0140	0.0011	2.20E-39	3,037,380	primary	-
-0.0093	0.0011	9.62E-18	3,022,480	primary	-
-0.0121	0.0018	6.68E-12	3,035,530	primary	-
-0.0069	0.0011	1.47E-09	3,024,950	primary	-
0.0127	0.0020	1.33E-10	3,036,940	primary	-
-0.0349	0.0022	1.28E-56	3,031,190	primary	-
0.0093	0.0011	1.06E-17	3,037,440	primary	-
0.0080	0.0011	1.15E-13	3,035,230	primary	-
0.0147	0.0012	7.36E-37	3,031,800	primary	-
-0.0080	0.0013	5.75E-10	3,037,450	primary	-
-0.0068	0.0011	1.44E-10	3,037,430	primary	-
0.0077	0.0011	3.41E-13	3,035,160	primary	-
-0.0073	0.0011	2.39E-11	3,037,450	primary	-
-0.0097	0.0016	4.36E-10	3,037,450	primary	-
0.0154	0.0026	5.13E-09	3,006,060	primary	-
0.0115	0.0013	1.16E-18	3,035,730	primary	-
-0.0113	0.0013	5.63E-17	3,022,340	primary	-
-0.0078	0.0011	1.13E-12	3,037,460	primary	-
0.0079	0.0011	1.19E-13	3,037,450	primary	-
-0.0129	0.0012	1.44E-26	3,035,690	primary	-
-0.0083	0.0011	5.83E-15	3,037,470	primary	-

0.0060	0.0011	1.72E-08	3,032,500	primary	-
-0.0129	0.0017	6.53E-15	3,037,460	primary	-
-0.0078	0.0011	1.25E-12	3,034,960	primary	-
0.0065	0.0011	1.33E-09	3,035,770	primary	-
-0.0105	0.0011	1.61E-21	3,037,410	primary	-
0.0102	0.0013	1.40E-15	3,037,450	primary	rs10279655
0.0069	0.0012	9.10E-09	3,023,230	secondary	N/A
-0.0102	0.0013	4.84E-15	3,037,450	primary	-
0.0088	0.0013	2.05E-12	3,037,470	primary	-
0.0125	0.0011	4.36E-31	3,037,420	primary	-
-0.0089	0.0011	3.39E-15	3,037,490	primary	-
-0.0137	0.0019	1.16E-12	3,012,680	primary	-
0.0077	0.0011	6.12E-12	3,037,480	primary	-
0.0098	0.0012	8.47E-16	3,035,760	primary	-
-0.0080	0.0011	6.22E-13	3,035,770	primary	-
-0.0110	0.0011	2.72E-22	3,033,190	primary	-
-0.0071	0.0011	4.16E-10	3,035,790	primary	-
-0.0087	0.0013	2.83E-11	3,024,460	primary	rs1050331
0.0074	0.0012	1.53E-09	3,037,410	secondary	N/A
-0.0088	0.0013	2.26E-11	3,024,950	primary	-
-0.0156	0.0026	2.95E-09	3,012,570	primary	-
0.0084	0.0011	2.64E-15	3,037,460	primary	-
0.0113	0.0012	1.07E-20	3,000,800	primary	-
-0.0520	0.0090	6.72E-09	2,916,650	primary	-
-0.0096	0.0012	3.53E-16	3,020,240	primary	-
0.0124	0.0018	3.45E-12	3,020,780	primary	-
-0.0064	0.0011	1.35E-08	3,007,300	primary	-
0.0084	0.0012	9.45E-13	3,033,320	primary	-
-0.0123	0.0022	1.78E-08	3,035,070	primary	-
-0.0082	0.0011	2.03E-13	3,037,490	primary	-
0.0130	0.0014	9.61E-20	3,037,420	primary	-
-0.0097	0.0012	6.99E-17	3,024,920	primary	-
-0.0076	0.0012	4.52E-11	3,032,500	primary	-
0.0079	0.0012	5.30E-11	3,035,680	secondary	N/A
0.0126	0.0011	1.12E-29	3,037,320	primary	rs757895
-0.0548	0.0086	1.97E-10	2,713,320	primary	-
0.0127	0.0011	1.40E-32	3,030,240	primary	-
-0.0066	0.0011	7.57E-10	3,023,970	primary	-
0.0177	0.0015	1.76E-30	3,033,280	primary	-
0.0067	0.0011	5.13E-10	3,035,790	primary	-
-0.0433	0.0067	8.46E-11	2,713,340	primary	-
0.0379	0.0052	2.71E-13	2,992,340	primary	-
-0.0129	0.0013	7.58E-23	3,037,430	secondary	N/A
-0.0334	0.0021	1.60E-58	2,713,320	primary	rs7796089,rs62462737
0.0293	0.0026	7.37E-29	3,022,500	secondary	N/A
-0.0075	0.0011	6.90E-11	3,037,460	primary	-
0.0091	0.0011	6.91E-18	3,035,750	primary	-
0.0111	0.0019	5.97E-09	2,272,200	primary	-

-0.0106	0.0011	2.31E-21	3,037,440	primary	-
0.0118	0.0019	3.17E-10	3,037,490	primary	-
-0.0073	0.0012	3.93E-09	3,037,490	primary	-
0.0153	0.0023	3.63E-11	3,004,030	primary	-
0.0081	0.0011	1.29E-12	3,037,470	primary	-
-0.0118	0.0012	1.10E-21	3,037,430	primary	-
-0.0118	0.0011	1.21E-26	3,035,720	primary	-
0.0087	0.0012	1.55E-13	3,037,470	primary	-
0.0083	0.0012	7.18E-13	3,037,500	primary	-
0.0090	0.0016	1.27E-08	3,037,510	primary	-
0.0064	0.0011	2.56E-09	3,035,040	primary	-
0.0100	0.0013	7.72E-14	3,036,910	primary	-
-0.0079	0.0014	7.01E-09	3,011,780	primary	-
-0.0100	0.0011	2.66E-20	3,030,380	primary	-
-0.0122	0.0019	8.21E-11	3,023,240	primary	-
0.0157	0.0011	1.10E-45	3,035,520	primary	-
-0.0070	0.0011	1.23E-10	3,037,460	primary	-
-0.0084	0.0012	1.22E-12	3,037,430	primary	-
-0.0065	0.0011	1.48E-09	3,037,460	primary	-
-0.0129	0.0015	1.39E-17	2,998,720	primary	-
0.0113	0.0014	1.60E-16	3,037,430	primary	-
0.0094	0.0012	8.44E-15	3,037,420	primary	-
0.0233	0.0042	2.89E-08	3,002,260	primary	-
-0.0073	0.0011	5.78E-11	3,035,740	primary	-
0.0132	0.0013	1.05E-22	3,027,610	primary	-
-0.0109	0.0015	4.96E-14	3,033,340	primary	-
-0.0108	0.0014	1.81E-14	3,035,750	primary	-
0.0103	0.0013	9.78E-16	3,028,640	primary	-
0.0113	0.0015	4.75E-14	2,555,600	primary	-
-0.0086	0.0011	5.90E-15	3,027,220	primary	-
0.0193	0.0029	1.54E-11	3,033,810	primary	-
0.0100	0.0012	6.40E-18	3,037,410	primary	-
-0.0094	0.0014	1.03E-11	3,000,740	primary	rs73186008
0.0105	0.0017	1.03E-09	2,967,710	secondary	N/A
0.0075	0.0011	1.15E-12	3,037,470	primary	-
-0.0159	0.0023	2.53E-12	3,035,050	primary	-
-0.0064	0.0011	2.55E-09	3,037,500	primary	-
0.0098	0.0012	1.96E-16	3,037,480	primary	-
0.0067	0.0011	7.82E-10	3,037,520	primary	-
-0.0148	0.0015	1.30E-22	3,037,450	primary	-
0.0089	0.0011	4.87E-16	3,037,430	primary	-
0.0082	0.0011	9.55E-14	3,035,770	primary	-
-0.0068	0.0011	1.22E-09	3,031,540	primary	-
-0.0101	0.0014	6.70E-14	3,031,750	primary	-
0.0066	0.0011	7.08E-10	3,037,480	primary	-
0.0121	0.0017	8.43E-13	3,000,840	primary	-
0.0075	0.0011	1.60E-11	3,037,460	primary	-
-0.0100	0.0011	2.63E-21	3,037,410	primary	-

0.0072	0.0013	3.07E-08	2,981,050	primary	-
-0.0103	0.0011	1.23E-20	3,024,870	primary	-
0.0100	0.0014	6.21E-12	3,037,470	primary	-
0.0073	0.0011	1.50E-11	3,020,750	primary	-
0.0060	0.0011	1.24E-08	3,037,500	primary	-
0.0085	0.0011	7.16E-16	3,037,440	primary	-
0.0094	0.0011	2.37E-17	3,037,440	primary	-
-0.0078	0.0012	6.67E-11	3,037,400	primary	rs79436018
0.0323	0.0035	1.20E-20	2,287,240	primary	-
0.0108	0.0018	1.91E-09	3,035,740	secondary	N/A
0.0194	0.0012	1.52E-60	3,024,760	primary	-
0.0098	0.0014	1.12E-11	2,998,700	primary	-
0.0082	0.0011	2.20E-14	3,037,490	primary	-
0.0093	0.0011	2.54E-16	3,037,420	primary	-
0.0123	0.0011	7.22E-29	3,037,420	primary	-
0.0103	0.0011	2.24E-22	3,034,990	primary	-
0.0124	0.0011	1.26E-29	3,037,430	primary	-
0.0064	0.0011	1.01E-08	3,037,470	primary	-
-0.0079	0.0011	1.31E-13	3,037,440	primary	-
0.0073	0.0012	2.57E-09	3,018,300	primary	-
0.0085	0.0015	1.25E-08	3,035,780	primary	-
-0.0067	0.0011	1.25E-09	3,037,490	primary	-
0.0073	0.0011	1.07E-10	3,024,900	primary	-
0.0096	0.0012	1.17E-14	3,032,770	primary	-
0.0063	0.0011	1.33E-08	3,035,640	primary	-
0.0126	0.0011	8.34E-32	3,037,430	primary	-
0.0097	0.0014	9.77E-12	3,037,470	primary	-
0.0243	0.0043	1.67E-08	2,998,990	primary	-
-0.0075	0.0011	3.60E-11	3,035,230	primary	-
0.0063	0.0011	3.10E-09	3,019,210	primary	-
0.0102	0.0011	7.67E-21	3,035,740	primary	-
0.0075	0.0011	4.31E-12	3,035,200	primary	-
-0.0067	0.0012	1.81E-08	3,037,470	primary	-
0.0074	0.0012	3.17E-10	3,000,820	primary	-
-0.0092	0.0014	1.37E-10	3,037,470	primary	-
0.0133	0.0011	1.05E-32	3,037,380	primary	-
0.0084	0.0013	2.17E-10	3,035,760	primary	-
0.0095	0.0011	5.42E-18	3,034,870	primary	-
0.0112	0.0013	3.25E-18	3,034,970	primary	rs1521195,rs7814757,rs1692821
-0.0104	0.0014	7.19E-13	3,036,660	secondary	N/A
-0.0124	0.0015	4.35E-17	3,036,630	primary	-
-0.0093	0.0012	2.59E-14	3,036,670	secondary	N/A
-0.0104	0.0013	3.13E-16	3,036,690	secondary	N/A
0.0082	0.0014	4.11E-09	3,032,540	primary	-
-0.0169	0.0014	4.89E-34	3,036,580	primary	-
-0.0082	0.0011	7.18E-15	3,034,940	primary	-
0.0086	0.0013	1.35E-10	3,036,650	primary	-
-0.0089	0.0011	3.38E-16	3,036,660	primary	-

0.0074	0.0011	2.73E-12	3,019,180	primary	-
0.0436	0.0076	1.12E-08	2,949,460	primary	-
-0.0067	0.0011	2.38E-09	3,036,680	primary	-
0.0060	0.0011	1.09E-08	3,030,770	primary	-
0.0068	0.0011	4.73E-10	3,036,660	primary	-
-0.0066	0.0011	1.65E-09	3,034,960	primary	-
-0.0073	0.0011	1.21E-11	3,034,930	primary	-
0.0064	0.0011	1.31E-09	3,034,390	primary	-
-0.0073	0.0011	6.97E-11	3,018,000	primary	-
-0.0061	0.0011	2.28E-08	3,036,670	primary	-
0.0081	0.0012	6.26E-12	2,979,970	primary	-
0.0105	0.0013	5.18E-17	3,016,810	primary	-
-0.0073	0.0011	2.04E-11	3,036,680	primary	-
0.0126	0.0014	7.59E-19	3,021,600	primary	-
0.0118	0.0011	1.20E-28	3,036,630	primary	-
0.0118	0.0013	3.72E-19	3,033,400	primary	-
0.0102	0.0014	1.67E-12	3,034,220	primary	-
-0.0108	0.0012	1.77E-18	3,023,990	primary	rs2725385
-0.0098	0.0013	2.33E-13	3,036,610	secondary	N/A
-0.0097	0.0011	2.02E-19	3,036,670	primary	-
-0.0076	0.0013	2.93E-09	3,036,660	primary	-
0.0117	0.0019	3.63E-10	3,024,150	primary	-
-0.0068	0.0011	2.39E-10	3,024,140	primary	-
0.0091	0.0013	3.61E-12	3,032,540	primary	-
0.0075	0.0011	1.27E-12	3,035,110	primary	-
-0.0116	0.0015	4.50E-14	3,019,970	primary	-
-0.0169	0.0025	1.41E-11	3,033,930	primary	-
0.0131	0.0011	2.44E-35	3,019,910	primary	-
0.0144	0.0025	4.53E-09	3,036,660	primary	-
-0.0144	0.0016	1.92E-18	3,032,480	primary	-
0.0108	0.0011	2.28E-24	3,031,660	primary	-
-0.0100	0.0013	1.29E-14	3,036,690	primary	-
0.0076	0.0012	4.12E-11	2,713,290	primary	-
0.0163	0.0025	1.12E-10	2,964,570	primary	-
0.0077	0.0011	4.41E-12	3,036,680	primary	-
-0.0085	0.0012	3.74E-13	3,036,640	primary	-
-0.0091	0.0014	4.81E-11	2,924,400	primary	-
-0.0081	0.0011	5.78E-13	3,036,640	primary	-
0.0063	0.0011	3.80E-09	3,031,700	primary	-
-0.0084	0.0011	2.60E-14	3,034,920	primary	-
0.0088	0.0014	1.27E-10	3,034,980	primary	-
-0.0085	0.0011	1.26E-14	3,033,250	primary	-
-0.0090	0.0011	1.26E-17	3,034,910	primary	-
-0.0137	0.0016	3.25E-17	3,036,660	primary	-
-0.0136	0.0024	8.50E-09	3,019,630	primary	-
-0.0181	0.0032	1.59E-08	2,999,560	primary	-
0.0089	0.0011	2.78E-16	3,036,640	primary	-
-0.0151	0.0016	3.83E-20	3,020,750	secondary	N/A

-0.0153	0.0013	1.41E-32	3,023,550	primary	rs2312427
0.0080	0.0012	1.07E-11	3,036,670	primary	-
-0.0074	0.0011	3.22E-11	3,036,680	primary	-
0.0118	0.0013	1.90E-18	3,008,780	primary	-
0.0085	0.0011	3.37E-15	2,999,470	primary	-
-0.0077	0.0012	5.20E-11	2,974,890	primary	-
-0.0090	0.0011	3.64E-17	3,036,080	primary	-
0.0095	0.0011	1.14E-18	3,036,580	primary	-
-0.0070	0.0011	7.20E-10	3,031,700	primary	-
0.0075	0.0011	1.07E-11	3,000,040	primary	-
0.0076	0.0011	1.94E-11	3,034,950	primary	-
0.0161	0.0028	5.87E-09	3,035,830	primary	-
0.0088	0.0012	3.43E-13	3,029,580	primary	-
-0.0100	0.0013	8.10E-15	3,036,640	primary	-
0.0091	0.0012	3.13E-15	3,033,310	primary	-
0.0080	0.0011	1.84E-12	3,034,910	primary	-
0.0091	0.0014	3.04E-11	3,036,680	primary	-
0.0112	0.0013	3.04E-17	2,550,890	primary	-
0.0102	0.0012	1.03E-18	3,036,650	primary	-
-0.0077	0.0011	7.18E-12	3,036,670	primary	-
0.0063	0.0011	3.23E-08	3,036,690	primary	-
0.0095	0.0011	7.32E-17	3,036,660	primary	-
0.0068	0.0012	1.99E-08	3,036,700	primary	-
-0.0088	0.0011	1.32E-16	3,036,650	primary	-
0.0081	0.0013	4.30E-10	3,036,650	primary	-
-0.0102	0.0013	2.63E-15	3,036,650	primary	-
0.0134	0.0015	2.72E-19	3,036,620	primary	-
0.0071	0.0011	3.32E-11	3,036,660	primary	-
0.0154	0.0018	4.38E-18	3,036,640	primary	-
0.0080	0.0013	1.38E-09	3,034,090	primary	-
0.0076	0.0013	2.17E-09	2,998,330	primary	-
0.0076	0.0011	9.13E-12	3,036,690	primary	-
-0.0318	0.0054	3.20E-09	2,988,880	primary	-
0.0112	0.0018	4.56E-10	3,036,670	primary	-
-0.0063	0.0011	1.07E-08	3,034,980	primary	-
-0.0197	0.0031	3.85E-10	2,879,480	primary	-
-0.0119	0.0014	1.32E-17	3,031,650	primary	-
-0.0093	0.0012	2.31E-15	3,036,630	primary	-
0.0139	0.0022	1.81E-10	3,033,270	primary	-
0.0136	0.0016	1.74E-16	3,034,200	primary	-
0.0077	0.0012	3.61E-10	3,036,680	primary	-
0.0082	0.0011	1.24E-14	3,034,390	primary	-
0.0060	0.0011	3.09E-08	3,036,670	primary	-
-0.0086	0.0012	5.12E-12	3,024,120	primary	-
0.0103	0.0011	7.72E-22	3,024,090	primary	-
0.0065	0.0011	1.08E-09	3,034,960	primary	-
-0.0084	0.0012	2.45E-13	3,036,110	primary	-
-0.0109	0.0011	4.86E-25	3,036,590	primary	-

0.0080	0.0011	2.38E-14	3,036,680	primary	-
0.0118	0.0013	1.17E-20	3,036,670	primary	-
-0.0064	0.0011	1.33E-09	3,036,670	primary	-
-0.0077	0.0011	1.05E-11	3,036,630	primary	-
-0.0107	0.0017	2.79E-10	3,036,630	primary	-
-0.0065	0.0011	7.50E-10	3,034,960	primary	-
-0.0067	0.0011	1.82E-10	3,036,700	primary	-
0.0093	0.0013	9.82E-13	2,981,960	primary	-
0.0086	0.0012	9.37E-14	3,034,930	primary	-
0.0100	0.0017	4.54E-09	2,595,570	primary	-
0.0059	0.0011	2.87E-08	3,036,690	primary	-
-0.0103	0.0014	2.29E-14	2,999,990	primary	-
-0.0077	0.0011	3.43E-12	3,036,660	primary	-
-0.0116	0.0017	9.05E-12	3,015,340	primary	-
0.0135	0.0011	7.26E-34	3,034,650	primary	-
0.0106	0.0011	2.20E-22	3,032,940	primary	-
-0.0071	0.0011	4.18E-11	2,963,670	primary	-
-0.0093	0.0011	1.03E-18	3,031,950	primary	-
-0.0129	0.0020	2.67E-10	2,997,380	primary	-
0.0393	0.0040	1.23E-22	3,018,450	primary	-
0.0084	0.0013	9.88E-11	3,011,000	primary	-
-0.0081	0.0011	2.94E-14	3,036,110	primary	-
-0.0068	0.0011	5.71E-10	3,004,010	primary	-
0.0160	0.0011	1.35E-51	3,026,840	primary	-
0.0077	0.0011	2.05E-12	3,035,690	primary	-
0.0137	0.0012	7.53E-33	3,034,850	primary	-
-0.0086	0.0011	1.82E-14	3,037,440	primary	-
0.0158	0.0026	2.44E-09	3,024,920	primary	-
0.0080	0.0012	1.75E-10	3,037,460	primary	-
-0.0075	0.0011	3.08E-12	3,037,450	primary	-
-0.0066	0.0012	3.58E-08	3,037,470	primary	-
-0.0121	0.0018	2.45E-11	2,272,200	primary	-
0.0104	0.0014	2.21E-13	3,037,440	primary	-
0.0074	0.0010	1.83E-12	3,037,440	primary	-
0.0064	0.0011	1.31E-09	3,037,490	primary	-
0.0084	0.0011	5.62E-14	3,036,660	primary	-
0.0084	0.0012	7.15E-13	3,000,060	primary	-
0.0069	0.0012	2.57E-09	3,036,640	primary	-
0.0095	0.0011	1.42E-18	3,036,620	primary	-
0.0076	0.0012	1.02E-09	3,034,240	primary	-
-0.0067	0.0011	5.28E-09	3,016,730	primary	-
-0.0062	0.0011	6.88E-09	3,036,690	primary	-
0.0226	0.0015	7.20E-53	3,036,530	primary	-
-0.0098	0.0016	3.45E-10	3,022,440	primary	-
0.0487	0.0085	1.13E-08	2,890,940	primary	-
0.0097	0.0011	1.96E-19	3,036,650	primary	-
0.0064	0.0011	1.18E-08	3,034,940	primary	-
0.0098	0.0011	7.03E-21	3,036,640	primary	-

-0.0066	0.0011	4.82E-10	3,036,690	primary	-
0.0093	0.0011	1.45E-18	3,021,670	primary	-
-0.0103	0.0014	1.12E-12	3,024,130	primary	-
0.0930	0.0159	4.77E-09	2,771,550	primary	-
-0.0070	0.0011	2.61E-11	3,033,390	primary	-
0.0071	0.0011	6.20E-11	3,034,700	primary	-
0.0255	0.0016	7.88E-56	3,024,480	secondary	N/A
0.0306	0.0012	3.76E-154	3,023,810	primary	rs10965791
0.0071	0.0013	2.56E-08	3,036,730	primary	-
-0.0142	0.0025	1.48E-08	3,000,740	primary	-
0.0155	0.0014	8.78E-27	3,021,950	primary	-
-0.0093	0.0016	1.42E-08	3,023,610	primary	-
-0.0059	0.0011	1.88E-08	3,036,150	primary	-
-0.0068	0.0011	2.80E-10	3,024,160	primary	-
0.0074	0.0011	4.27E-11	3,036,650	primary	-
0.0081	0.0013	1.22E-09	3,036,690	primary	-
0.0104	0.0016	5.52E-11	3,004,480	primary	-
-0.0074	0.0011	1.16E-11	3,036,700	primary	-
0.0064	0.0011	1.25E-09	3,036,690	primary	-
0.0084	0.0011	2.80E-15	3,034,960	primary	-
-0.0104	0.0011	2.14E-22	3,036,600	primary	-
-0.0174	0.0027	6.89E-11	3,022,690	primary	-
0.0183	0.0027	5.14E-12	3,036,360	primary	-
0.0106	0.0012	6.99E-19	3,036,640	primary	-
-0.0105	0.0014	4.51E-13	3,036,700	primary	-
0.0095	0.0013	1.87E-13	3,036,650	primary	-
0.0072	0.0012	1.88E-09	3,036,660	primary	-
0.0103	0.0011	1.59E-21	3,034,960	primary	-
0.0132	0.0022	1.45E-09	3,035,780	primary	-
-0.0100	0.0014	1.79E-12	3,034,930	primary	-
-0.0094	0.0011	1.33E-18	3,036,600	primary	-
0.0095	0.0015	5.91E-10	3,036,650	primary	-
-0.0072	0.0011	1.04E-10	3,036,660	primary	-
-0.0129	0.0021	1.22E-09	3,036,670	primary	-
-0.0102	0.0017	1.96E-09	3,036,690	primary	-
0.0071	0.0011	5.96E-11	3,034,960	primary	-
0.0106	0.0013	2.31E-17	3,036,650	primary	-
0.0099	0.0015	1.36E-10	3,036,690	primary	-
-0.0118	0.0012	8.91E-22	3,036,620	primary	-
0.0133	0.0016	5.47E-17	3,034,920	primary	-
0.0125	0.0011	2.61E-32	3,036,610	primary	-
0.0076	0.0012	1.81E-10	3,036,610	secondary	N/A
-0.0088	0.0012	6.96E-13	3,036,620	primary	rs10821123
0.0086	0.0011	2.94E-15	3,021,690	primary	-
-0.0073	0.0011	8.86E-11	2,987,670	primary	-
0.0164	0.0015	3.50E-29	3,021,620	primary	-
0.0106	0.0011	2.07E-21	3,034,940	primary	-
-0.0132	0.0018	1.01E-13	3,024,110	primary	-

0.0212	0.0036	3.57E-09	2,942,760	primary	-
-0.0066	0.0011	2.58E-09	3,022,440	primary	-
-0.0073	0.0012	2.83E-10	3,036,650	primary	-
-0.0086	0.0011	5.09E-16	3,036,630	primary	-
0.0124	0.0021	4.15E-09	3,014,500	primary	-
0.0130	0.0018	2.06E-13	3,035,750	primary	-
0.0233	0.0028	5.79E-17	3,033,110	primary	-
0.0168	0.0015	3.21E-29	3,036,620	primary	-
-0.0076	0.0011	1.60E-11	3,036,680	primary	-
-0.0123	0.0011	2.04E-29	3,036,620	primary	-
-0.0066	0.0011	1.13E-09	3,034,980	primary	-
-0.0064	0.0011	2.36E-09	3,024,120	primary	-
-0.0060	0.0011	2.35E-08	3,036,670	primary	-
-0.0079	0.0014	6.14E-09	3,034,050	primary	-
-0.0091	0.0012	1.14E-14	3,036,670	primary	-
0.0066	0.0011	8.88E-10	3,036,680	primary	-
-0.0067	0.0011	1.32E-09	3,036,680	primary	-
-0.0062	0.0011	1.69E-08	3,036,710	primary	-
0.0090	0.0013	9.68E-13	3,036,680	primary	-
-0.0090	0.0012	3.27E-13	3,036,650	primary	-
-0.0139	0.0011	7.96E-37	3,036,560	primary	-
0.0081	0.0011	2.21E-13	3,036,680	primary	-
-0.0070	0.0011	6.53E-11	3,015,780	primary	-
0.0067	0.0011	4.27E-10	3,019,960	primary	-
0.0072	0.0011	2.46E-11	3,022,450	primary	-
-0.0098	0.0011	1.91E-17	3,032,530	primary	-
0.0142	0.0011	5.95E-41	3,036,580	primary	-
-0.0082	0.0012	4.23E-11	3,014,230	primary	-
0.0134	0.0012	2.49E-27	3,036,610	primary	-
-0.0084	0.0012	2.62E-12	3,034,970	primary	-
0.0133	0.0022	2.91E-09	3,033,340	primary	-
0.0080	0.0011	3.32E-14	3,034,180	primary	-
0.0107	0.0014	7.24E-14	3,036,650	primary	-
0.0069	0.0011	9.02E-11	3,036,680	primary	-
0.0078	0.0011	1.40E-13	3,033,410	primary	-
-0.0112	0.0015	1.10E-13	3,028,810	primary	-
0.0068	0.0011	5.79E-10	3,027,580	primary	-
-0.0152	0.0011	1.76E-40	3,036,580	primary	-
0.0097	0.0013	1.47E-14	3,036,710	primary	-
0.0123	0.0012	2.33E-23	3,036,610	primary	-
-0.0094	0.0013	1.55E-12	3,036,680	primary	-
-0.0088	0.0014	2.24E-10	3,032,000	primary	-
-0.0080	0.0013	1.10E-09	3,034,720	primary	-
-0.0083	0.0012	2.08E-11	2,984,580	primary	-
0.0111	0.0011	4.58E-24	3,011,700	primary	-
-0.0201	0.0017	3.20E-34	2,841,830	primary	-
0.0085	0.0013	8.26E-11	3,033,920	primary	-

Supplementary Table 3. Predictive power of *EduYears* PGIs made using clumping and thresholding (C+T; with different *P* values)

Methodology	Set of SNPs	AddHealth (N=5,653)			HRS (N=10,843)	
		Incremental- R^2	95% CI - low	95% CI - high	Incremental- R^2	95% CI - low
C+T	$P < 5e-8$	9.1%	7.7%	10.7%	7.0%	6.1%
	$P < 5e-5$	11.8%	10.3%	13.3%	9.3%	8.2%
	$P < 5e-3$	13.5%	11.8%	15.1%	10.9%	9.7%
	$P < 1$	12.7%	11.2%	14.3%	10.4%	9.1%
SBayesR	2,548,339 pruned common variants	17.0%	15.2%	18.5%	12.9%	11.7%
LDpred	HapMap3	15.8%	14.1%	17.3%	12.0%	10.8%

Notes: "C+T" is clumping and thresholding. All C+T PGIs were made with a clumping r^2 threshold of 0.1. The SBayesR PGI was made using 2,548,339 pruned common SNPs from the full UKB European ancestry ($N \approx 450,000$) data set from Lloyd-Jones et al. that were available for analysis excluding HRS, Add Health and WLS. SBayesR was run assuming 4 components in the finite mixture model, with initial mixture proportions $\pi = (0.95, 0.02, 0.02, 0.01)$ and fixed $\gamma = (0.0, 0.01, 0.1, 1)$. The LDpred PGI was made using HapMap3 SNPs and a fraction of causal SNPs equal to 0.1. All analyses include the baseline control variables: sex, birth year, the interaction between sex and birth year, and the first ten principal components of the genetic relatedness matrix. The 95% CIs for incremental R^2 were bootstrapped with 1,000 repetitions each. *P* values on which thresholds were selected are based on two-sided *Z* tests.

ε thresholds) and SBayesR methodologies

)

95% CI - high

7.9%

10.2%

11.9%

11.3%

13.9%

12.9%

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equal to 1. All
ponents (PCs)
he SNPs were

Supplementary Table 4. Predictive power of EduYears Polygenic Index

Panel A. National Longitudinal Study of Adolescent to Adult Health (Add Health)					
	EduYears	Completed High School	Completed College	Grade Retention	Peabody Verbal
Regression coefficient	1.33	0.06	0.19	-0.09	3.71
Robust S.E.	(0.038)	(0.004)	(0.006)	(0.005)	(0.157)
Mean/Prevalence	14.90	92.55%	32.48%	18.70%	104.86
Std. Dev.	3.16	—	—	—	11.85
Incremental- R^2	15.8%	7.8%	12.6%	5.4%	8.7%
95% CI - low	14.0%	6.2%	11.2%	4.3%	7.3%
95% CI - high	17.3%	9.6%	14.2%	6.9%	10.0%
N	5,653	5,653	5,653	5,652	5,409

Panel B. Health and Retirement Study (HRS)

	EduYears	Completed High School	Completed College	Grade Retention	Total Cognition
Regression coefficient	1.22	0.11	0.15	-0.06	0.86
Robust S.E.	(0.030)	(0.004)	(0.004)	(0.004)	(0.035)
Mean/Prevalence	14.28	82.48%	25.37%	16.16%	23.18
Std. Dev.	3.22	—	—	—	4.43
Incremental- R^2	12.0%	8.0%	9.3%	2.6%	3.1%
95% CI - low	10.8%	6.9%	8.3%	2.0%	2.8%
95% CI - high	12.9%	9.1%	10.3%	3.2%	3.3%
N	10,843	10,843	10,843	10,163	59,574

Panel C. Wisconsin Longitudinal Study (WLS)

	Henmon-Nelson	High School Grades Percentile Rank
Regression coefficient	2.90	8.01
Robust Std. Error	(0.124)	(0.351)
Mean/Prevalence	58.20	53.83
Std. Dev.	11.44	28.36
Incremental- R^2	6.1%	7.7%
95% CI - low	5.2%	6.4%
95% CI - high	7.1%	9.1%
N	8,154	5,318

Notes: All analyses include the baseline control variables: a full set of dummy variables for year of birth, an indicator variable and the first 10 principal components (PCs) of the variance-covariance matrix of the genetic data. Cognitive performance Incremental R^2 values are displayed for continuous phenotypes; incremental pseudo- R^2 values are displayed for binary phenotypes. R^2 were bootstrapped with 1,000 repetitions each. PGIs were constructed with LDpred [1] using HapMap3 SNPs and a fract and standard deviation 1. Phenotypes are not standardized.

References

[1] B. J. Vilhjálmsson *et al.*, Modeling Linkage Disequilibrium Increases Accuracy of Polygenic Risk Scores. *Am. J. Hum. Ge*

Overall GPA	Math GPA	Science GPA	Verbal GPA
0.32	0.31	0.35	0.37
(0.012)	(0.015)	(0.016)	(0.014)
2.70	2.34	2.41	2.51
0.81	0.94	0.96	0.93
12.3%	8.4%	10.0%	12.4%
10.2%	6.7%	7.8%	10.2%
13.5%	9.7%	11.3%	13.8%
4,068	4,050	4,029	4,057

Verbal Cognition	Δ Total Cognition	Δ Verbal Cognition	Alzheimer's
0.45	0.02	-0.01	0.00
(0.017)	(0.011)	(0.016)	(0.002)
5.97	-0.60	0.00	3.80%
1.87	3.66	2.13	—
4.7%	0.0%	0.0%	0.1%
4.2%	0.0%	0.0%	0.0%
5.2%	0.0%	0.1%	0.4%
32,395	42,705	8,800	9,846

β for sex, a full set of interactions between sex and year of birth, race measures also control for timing of cognitive assessment. β types. The 95% CIs for incremental R^2 and incremental pseudo- R^2 of causal SNPs equal to 1, and standardized to have mean 0

Supplementary Table 5. European genetic ancestries to African genetic ancestries relative prediction accuracy

Phenotype	Observed Relative accuracy in % (S.E.)	MAF and LD based predicted relative accuracy in %
Educational Attainment (EA)	0.34 (0.94)	35.0
Height	15.3 (2.1)	39.4
Body mass Index (BMI)	12.0 (4.5)	38.6
LDL Cholesterol (LDL)	40.5 (5.0)	25.7
HDL Cholesterol (HDL)	15.0 (3.1)	35.8
Triglycerides (TG)	16.2 (3.7)	36.5
Asthma	38.5 (15.5)	34.0
Type 2 Diabetes (T2D)	25.7 (12.7)	39.2
Hypertension (HTN)	27.3 (17.2)	37.7

Notes: European genetic ancestries to African genetic ancestries relative prediction accuracy of various polygenic in a European-genetic-ancestries sample of the UK Biobank. S.E. denotes standard errors. S.E. for the observed relative

Accuracy in the UK Biobank

Percentage of Loss of accuracy explained by LD and MAF (S.E.)	Source
65.2 (0.61)	This study
71.5 (1.8)	
69.8 (3.6)	
124.9 (10.5)	
75.5 (2.7)	
75.8 (3.3)	Wang et al.
107.3 (27.0)	
81.8 (14.0)	
85.7 (20.3)	

indexes based on genome-wide-significant SNPs identified in the UK Biobank. The loss of accuracy were calculated using the delta method.

Supplementary Table 6. Predictive power of the EA PGI, the disease-specific PGI, and their combination for various

Disease	EA PGI			<i>P</i> value for coefficient on the EA PGI	Incremental Nagelkerke's R^2
	Incremental Nagelkerke's R^2	95% CI - low	95% CI - high		
<u>Cardiometabolic diseases:</u>					
Essential (primary) hypertension	0.93%	0.88%	0.97%	<1E-300	2.05%
Ischaemic heart disease	0.85%	0.79%	0.91%	<1E-300	1.45%
Myocardial infarction	0.89%	0.81%	0.98%	1.57E-232	1.81%
Pure hypercholesterolaemia	0.68%	0.62%	0.74%	7.05E-276	1.15%
Type 2 diabetes	1.07%	1.00%	1.15%	<1E-300	1.61%
<u>Lung diseases:</u>					
Asthma	0.42%	0.38%	0.46%	3.40E-175	0.87%
<u>Musculoskeletal diseases:</u>					
Osteoporosis	0.03%	0.02%	0.05%	2.98E-08	0.29%
Rheumatoid arthritis	0.63%	0.53%	0.74%	6.21E-86	1.37%
<u>Neurological diseases:</u>					
Migraine	0.25%	0.20%	0.30%	5.99E-49	0.31%
<u>Psychiatric disorders:</u>					
Major depression	0.59%	0.53%	0.64%	6.36E-218	1.01%
<u>Mean across the ten diseases:</u>					
Mean	0.63%	-	-	-	1.19%

Notes: This table reports the numbers that are shown in Figure 3. For each disease phenotype and each PGI (or PGI covariates). The covariates include sex, a third-degree polynomial in birth year and interactions with sex, the first 40 PCs, an PGI is from a two-tailed test of the null hypothesis that the coefficient is equal to zero, when the PGI is included in the regre:

diseases in the UK Biobank

Disease PGI			EA PGI + disease PGI + their interaction			
95% CI - low	95% CI - high	<i>P</i> value for coefficient on the disease PGI	Incremental Nagelkerke's R^2	95% CI - low	95% CI - high	<i>P</i> value for coefficient on the EA PGI†
1.98%	2.12%	<1E-300	2.82%	2.73%	2.90%	<1E-300
1.38%	1.54%	<1E-300	2.08%	1.99%	2.17%	1.60E-281
1.71%	1.93%	<1E-300	2.45%	2.32%	2.58%	3.08E-153
1.07%	1.23%	<1E-300	1.77%	1.68%	1.86%	2.82E-248
1.52%	1.71%	<1E-300	2.53%	2.41%	2.64%	<1E-300
0.81%	0.94%	<1E-300	1.25%	1.18%	1.33%	2.76E-156
0.24%	0.35%	5.37E-66	0.32%	0.27%	0.38%	3.74E-07
1.23%	1.51%	1.90E-184	1.85%	1.69%	2.02%	8.25E-63
0.25%	0.37%	8.57E-60	0.55%	0.48%	0.63%	4.38E-48
0.94%	1.08%	<1E-300	1.41%	1.32%	1.50%	3.05E-147
-	-	-	1.70%	-	-	-

combination), the table shows the incremental Nagelkerke's R^2 from adding the PGI (or PGI combination) to a logistic regression model with batch dummies. The 95% confidence intervals were calculated with the bootstrap percentile method, with 1,000 repetitions. Each row represents a disease, and the numbers of cases and controls in the UK Biobank for each disease are shown in Table 1.

n	P value for coefficient on the disease PGI	P value for coefficient on the PGI interaction
	<1E-300	9.40E-01
	<1E-300	4.31E-01
	<1E-300	6.66E-01
	<1E-300	7.22E-01
	<1E-300	8.21E-01
	<1E-300	6.31E-01
	3.76E-65	8.00E-01
	1.45E-160	2.01E-01
	5.13E-59	1.67E-01
	<1E-300	6.70E-01

- -

of the disease phenotype on the
 h P value for the coefficient on a
 the last column of Supplementary

Supplementary Table 7. Odds ratio for selected diseases by deciles of the EA PGI in the UK Biobank

Disease	EA PGI Decile	Odds Ratio	95% CI - low	95% CI - high
<i>Cardiometaabolic diseases:</i>				
Essential (primary) hypertension	1	1	-	-
	2	0.896	0.869	0.925
	3	0.835	0.810	0.861
	4	0.778	0.755	0.803
	5	0.736	0.713	0.759
	6	0.691	0.669	0.713
	7	0.648	0.627	0.669
	8	0.612	0.593	0.632
	9	0.564	0.546	0.583
	10	0.484	0.468	0.501
Ischaemic heart disease	1	1	-	-
	2	0.832	0.797	0.869
	3	0.759	0.727	0.793
	4	0.693	0.663	0.725
	5	0.670	0.641	0.701
	6	0.642	0.614	0.672
	7	0.594	0.567	0.622
	8	0.533	0.509	0.559
	9	0.496	0.473	0.520
	10	0.424	0.403	0.446
Myocardial infarction	1	1	-	-
	2	0.812	0.762	0.865
	3	0.713	0.668	0.761
	4	0.671	0.628	0.716
	5	0.612	0.572	0.655
	6	0.599	0.560	0.641
	7	0.533	0.497	0.571
	8	0.499	0.465	0.536
	9	0.443	0.412	0.477
	10	0.368	0.340	0.398
Pure hypercholesterola emia	1	1	-	-
	2	0.865	0.828	0.904
	3	0.818	0.782	0.855
	4	0.754	0.721	0.788
	5	0.737	0.705	0.771
	6	0.703	0.671	0.736
	7	0.665	0.635	0.697
	8	0.587	0.560	0.616
	9	0.564	0.537	0.592
	10	0.493	0.468	0.518
	1	1	-	-
	2	0.836	0.796	0.879
	3	0.753	0.715	0.792

Type 2 diabetes	4	0.694	0.659	0.730
	5	0.629	0.596	0.663
	6	0.599	0.568	0.632
	7	0.531	0.502	0.561
	8	0.487	0.461	0.516
	9	0.448	0.422	0.474
	10	0.379	0.357	0.403
<hr/>				
<u>Lung Diseases:</u>				
Asthma	1	1	-	-
	2	0.847	0.811	0.885
	3	0.815	0.780	0.852
	4	0.769	0.735	0.804
	5	0.744	0.711	0.778
	6	0.743	0.710	0.777
	7	0.677	0.646	0.709
	8	0.660	0.630	0.692
	9	0.617	0.589	0.648
	10	0.568	0.541	0.596
<hr/>				
<u>Musculoskeletal diseases:</u>				
Osteoporosis	1	1	-	-
	2	0.952	0.878	1.032
	3	0.924	0.852	1.002
	4	0.909	0.838	0.987
	5	0.839	0.773	0.911
	6	0.872	0.803	0.946
	7	0.853	0.786	0.926
	8	0.819	0.754	0.889
	9	0.848	0.781	0.921
	10	0.833	0.767	0.905
Rheumatoid arthritis	1	1	-	-
	2	0.850	0.772	0.935
	3	0.755	0.684	0.833
	4	0.675	0.610	0.748
	5	0.623	0.562	0.691
	6	0.629	0.567	0.697
	7	0.559	0.503	0.622
	8	0.520	0.467	0.580
	9	0.510	0.457	0.570
	10	0.395	0.350	0.445
<hr/>				
<u>Neurological diseases:</u>				
Migraine	1	1	-	-
	2	0.885	0.814	0.961
	3	0.889	0.819	0.965
	4	0.861	0.793	0.936
	5	0.792	0.728	0.863

migraine	6	0.793	0.728	0.863
	7	0.746	0.684	0.813
	8	0.707	0.648	0.771
	9	0.663	0.607	0.725
	10	0.569	0.519	0.624
<hr/>				
<i>Psychiatric disorders:</i>				
Major depression	1	1	-	-
	2	0.862	0.822	0.904
	3	0.806	0.768	0.846
	4	0.737	0.701	0.774
	5	0.716	0.681	0.752
	6	0.686	0.652	0.721
	7	0.636	0.604	0.669
	8	0.626	0.595	0.659
	9	0.554	0.525	0.584
	10	0.498	0.471	0.526

Notes: This table reports the numbers that are shown in Supplementary Figure 9. The EA PGI was converted into deciles (1= lowest, 10 = highest), and nine dummy variables were created to contrast each of deciles 2-10 to decile 1 as the reference. Odds ratio and 95% confidence intervals were estimated using logistic regression while controlling for covariates (sex, a third-degree polynomial in birth year and interactions with sex, the top 40 PCs, and batch dummies). The numbers of cases and controls in the UK Biobank for each disease are shown in the last column of Supplementary Table 23

Supplementary Table 8. Odds ratio based on the EA and disease PGI for the diseases in the UK Biobank

Panel A: Odds ratio for the highest risk decile (based on the EA PGI, the di				
Disease	Odds ratio for the bottom EA PGI decile vs. the remaining deciles combined			
	Odds ratio	95% CI - low	95% CI - high	P value
<u>Cardiometabolic diseases:</u>				
Essential (primary) hypertension	1.43	1.39	1.46	9.03E-197
Ischaemic heart disease	1.57	1.52	1.62	4.32E-164
Myocardial infarction	1.68	1.6	1.76	2.81E-103
Pure hypercholesterolaemia	1.43	1.39	1.48	4.23E-102
Type 2 diabetes	1.65	1.59	1.71	3.92E-152
<u>Lung diseases:</u>				
Asthma	1.38	1.34	1.43	2.40E-84
<u>Musculoskeletal diseases:</u>				
Osteoporosis	1.14	1.08	1.22	1.79E-05
Rheumatoid arthritis	1.6	1.49	1.72	1.13E-37
<u>Neurological diseases:</u>				
Migraine	1.29	1.21	1.37	8.66E-16
<u>Psychiatric disorders:</u>				
Major depression	1.45	1.4	1.5	2.08E-93

Panel B: Odds ratio for the lowest risk PGI decile (based on the EA PGI, the				
Disease	Odds ratio for the top EA PGI decile vs. the remaining deciles combined			
	Odds ratio	95% CI - low	95% CI - high	P value
<u>Cardiometabolic diseases:</u>				
Ischaemic heart disease	0.64	0.62	0.67	6.75E-98
Myocardial infarction	0.6	0.56	0.64	7.66E-55
Pure hypercholesterolaemia	0.69	0.66	0.71	2.13E-75
Essential (primary) hypertension	0.67	0.65	0.69	6.81E-194
Type 2 diabetes	0.6	0.57	0.64	1.04E-82
<u>Lung diseases:</u>				
Asthma	0.76	0.73	0.79	2.64E-41
<u>Musculoskeletal diseases:</u>				
Osteoporosis	0.95	0.89	1.01	0.078
Rheumatoid arthritis	0.61	0.55	0.67	2.43E-22
<u>Neurological diseases:</u>				
Migraine	0.72	0.66	0.77	6.97E-19
<u>Psychiatric disorders:</u>				
Major depression	0.7	0.67	0.73	2.42E-54

Notes : Odds ratio were calculated with a logistic regression model adjusted for sex, a third-degree polynomial in birth year and int column of Supplementary Table 23.

* Because the genetic correlation between femoral neck bone mineral density and osteoporosis is negative, we took the bottom decile

sease PGI, or on risk as predicted by the combination of the EA PGI, the disease-specific PGI, and their interaction) vs.

Odds ratio for the top disease PGI decile vs. the remaining deciles combined					Odds ratio f
Disease score	Odds ratio	95% CI - low	95% CI - high	<i>P</i> value	Odds ratio
Systolic blood pressure	1.78	1.74	1.83	<1E-300	1.96
Coronary artery disease	1.82	1.77	1.88	<1E-300	2.02
	2.13	2.03	2.22	5.01E-252	2.35
Low-density lipoprotein cholesterol	1.56	1.51	1.61	3.54E-164	1.79
Type 2 diabetes	1.84	1.78	1.91	2.13E-232	2.11
Asthma	1.52	1.47	1.56	5.61E-151	1.64
Femoral neck bone mineral density*	1.39	1.32	1.47	2.42E-33	1.39
Rheumatoid arthritis	2.09	1.96	2.23	6.52E-112	2.24
Migraine	1.35	1.27	1.43	1.13E-23	1.5
Major depression	1.6	1.54	1.65	2.65E-160	1.74

disease PGI, or on risk as predicted by the combination of the EA PGI, the disease-specific PGI, and their interaction) v

Odds ratio for the bottom disease PGI decile vs. the remaining deciles combined					Odds ratio f
Disease score	Odds ratio	95% CI - low	95% CI - high	<i>P</i> value	Odds ratio
Coronary artery disease	0.58	0.55	0.6	4.89E-144	0.49
	0.48	0.44	0.51	5.16E-93	0.4
Low-density lipoprotein cholesterol	0.59	0.57	0.62	1.64E-139	0.54
Systolic blood pressure	0.55	0.54	0.57	<1E-300	0.51
Type 2 diabetes	0.5	0.47	0.53	2.20E-139	0.43
Asthma	0.64	0.61	0.67	1.67E-97	0.58
Femoral neck bone mineral density*	0.74	0.69	0.79	2.81E-18	0.73
Rheumatoid arthritis	0.51	0.45	0.57	4.07E-34	0.45
Migraine	0.7	0.65	0.76	5.25E-20	0.64
Major depression	0.6	0.57	0.63	7.52E-99	0.55

interactions with sex, the first 40 PCs and batch dummies in the UK Biobank. *P* values are based on two-sided *Z* tests. The num

vs. the 9 other deciles in Panel A, and vice-versa in Panel B.

the remaining deciles combined

for the top decile for risk as predicted based on the EA PGI, disease-specific PGI and their interaction vs. the remaining deciles

95% CI - low	95% CI - high	<i>P</i> value
1.92	2.01	<1E-300
1.96	2.08	<1E-300
2.25	2.45	<1E-300
1.73	1.85	4.56E-290
2.04	2.19	<1E-300
1.59	1.69	1.22E-217
1.32	1.47	8.25E-33
2.1	2.39	1.18E-134
1.41	1.59	8.53E-43
1.68	1.8	7.46E-232

s. the remaining deciles combined

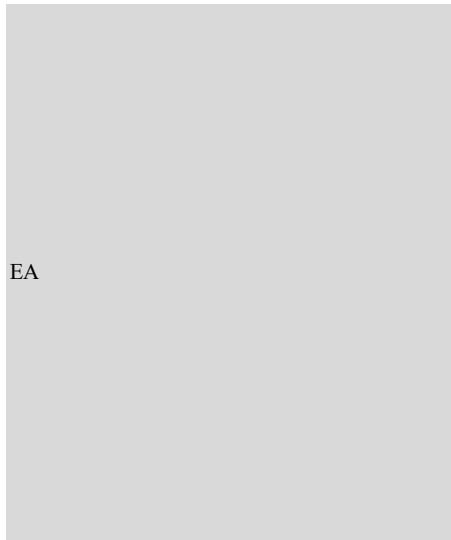
for the bottom decile for risk as predicted based on the EA PGI, disease-specific PGI and their interaction vs. the remaining deciles

95% CI - low	95% CI - high	<i>P</i> value
0.47	0.51	3.95E-212
0.37	0.43	3.01E-123
0.52	0.57	9.00E-177
0.49	0.52	<1E-300
0.41	0.46	9.14E-183
0.55	0.6	1.03E-135
0.68	0.78	2.06E-19
0.4	0.5	1.29E-42
0.59	0.69	3.42E-29
0.52	0.58	3.46E-126

numbers of cases and controls in the UK Biobank for each disease are shown in the last

Supplementary Table 9. Description of data used to obtain the within-family meta-an

Phenotype	<i>N</i> - both parents genotyped	<i>N</i> - genotyped sib(s)
<u><i>Anthropometric:</i></u>		
BMI	867	34806
Height	871	34848
<u><i>Cardiometabolic:</i></u>		
Blood Pressure (Diastolic)	834	32627
Blood Pressure (Systolic)	834	32627
Glucose	757	30531
HDL Cholesterol	758	30548
Non-HDL Cholesterol	757	30494
<u><i>Cognitive and Education:</i></u>		
Cognitive Performance	313	10364



EA	873	34955
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Vocabulary	NA	
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Fertility:

Age at First Birth (Women)	298	13991
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Number of Children (Women)	516	20173
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Number of Children (Men)	356	14627
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Number of Children (Pooled)	872	34800
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Income:

Personal Income	804	22699
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Household Income	803	30369
------------------	-----	-------

Lung:

FEV1	833	31899
------	-----	-------

Overall Health:

Self Rated Health	873	34843
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Psychiatric:

Depressive Symptoms	821	32796
---------------------	-----	-------

Neuroticism	735	28475
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Subjective Well Being	312	10543
-----------------------	-----	-------

Smoking and Drinking:

Cigarettes per Day	194	10638
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Drinks Per Week	294	11611
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Ever Smoker	868	34828
-------------	-----	-------

Notes: Information on the phenotypes used in the family-based analyses.

References

Okbay, A. et al. *Genetic variants associated with subjective well-being, depressive symp*

Smith, Blair H., et al. *Cohort Profile: Generation Scotland: Scottish Family Health Stud*
Kweon, H. et al. *Genetic Fortune: Winning or Losing Education, Income, and Health*. 1

Analysis decomposition estimates

UKB	GS	
	<i>N</i> - both parents genotyped	<i>N</i> - genotyped sib(s)
Coding		
Data field: 21001	2643	9630
Data field: 50	2656	9662
Data field: 4079	2664	9666
Data field: 4080	2666	9669
Data field: 30740	2513	9246
Data field: 30760	2527	9362
Data fields: 30690, 30760. Computed as Total Cholesterol-HDL cholesterol	2527	9347
Data field: 20016 Fluid intelligence score	2641	9489

See Supplementary Table 14 Panel B 2552 9160

2643 9546

Data field: 2754 NA
Data field: 2734 NA
Data field: 2405 NA

Data fields: 2405, 2734 NA
Union of male and female

Data field: 20227 NA
See Kweon et al (2020)

Data field: 738
"What is the average total income before tax received by your household?"
Prefer not to answer = NA
Do not know = NA
Less than 18,000 NA
18,000 to 30,999
31,000 to 51,999
52,000 to 100,000
Greater than 100,000
Coded as average of log of endpoints of given range for each answer.

Data field: 3063 2310 8209

Data field: 2178

"In general how would you rate your overall health?"

- Prefer not to answer = NA
- Do not know = NA
- Poor = 1
- Fair = 2
- Good = 3
- Excellent = 4

NA

Data fields: 2050, 2060

See Okbay et al (2016)

NA

Data field: 20127

2665

9665

Data field: 4526

"In general how happy are you?"

Coded following Okbay et al. 2016:

- Prefer not to answer = NA
- Do not know = NA
- Extremely unhappy = 1
- Very unhappy = 2
- Moderately unhappy = 3
- Moderately happy = 4
- Very happy = 5
- Extremely happy = 6

NA

Data fields: 3456, 2887

919

4269

Data field: 20414

"How often do you have a drink containing alcohol?"

- Prefer not to answer = NA
- Never or Monthly or less = 0
- 2 to 4 times a month = 0.75
- 2 to 3 times a week = 2.5
- 4 or more times a week = 4

NA

Data field: 20116

Binary coding

NA

toms, and neuroticism identified through genome-wide analyses. Nat Genet **48**, 624–633 (2016)

y (GS: SFHS). *The study, its participants and their potential for genetic research on health and i*
inbergen Institute Discussion Paper **20-053/V** (2020).

Coding	<i>N</i> - genotyped sib(s)
Clinical measurement. See Smith et al. 2013	8911
Clinical measurement. See Smith et al. 2013	8995
Clinical measurement. See Smith et al. 2013	
Clinical measurement. See Smith et al. 2013	
Clinical measurement. See Smith et al. 2013 Clinical measurement. See Smith et al. 2013 Clinical measurement. See Smith et al. 2013. Computed as Total Cholesterol-HDL Cholesterol	
first PC of Logical memory (total of immediate and delayed), Digit Symbol, and Verbal fluency. Each subtest was variance normalised before performing principal component analysis.	3786

How many years altogether did you attend school or study full-time?"

First converted to ISCED categories, and then from ISCED to US years of education as follows

- 0 -> ISCED 0 -> 1
- 0-4 -> ISCED 0 -> 1
- 5-9 -> ISCED 1 -> 7
- 10-11 -> ISCED 2 -> 10
- 12-13 -> ISCED 3 -> 13
- 14-15 -> ISCED 4 -> 15
- 16-17 -> ISCED 4 -> 15
- 17-18 -> ISCED 5 -> 19
- 18-19 -> ISCED 5 -> 19
- 22-23 -> ISCED 6 -> 22
- 24+ -> ISCED 6 -> 22

Mill Hill Vocabulary Scale

^

^

^

^

8848

^

^

7991

Clinical measurement. See Smith et al. 2013

7014

7506

Eysenck N subtest from Eysenck
Personality Questionnaire. See
Smith et al. 2013

3854

From smoking history section of
health and lifestyle questionnaire.
See Smith et al. 2013

4394

⌞

10073

⌞

10303

). <https://doi.org/10.1038/ng.3552>

STR

Coding

Anthropometric data is from the following surveys in the Swedish Twin Register:

- STR TwinGene (WEIGHT_KG, HEIGHT_CM)
- STR YATSS (EAD_WEIGHT_PRESENT_O, EAD_LENGTH_PRESENT_O)
- STR STAGE (WEIGHTPV, LENGTHPV)

The TwinGene measurements were conducted by a physician, whereas YATSS and STAGE anthropometrics were self-reported. Extreme outliers were dropped (defined as less than 100cm height) since these were likely erroneously entered.

Anthropometric data from conscription records were excluded since these do not satisfy the 21 years of age restriction.

See above

NA

NA

NA

NA

NA

Cognitive capacity data is constructed using results from the Swedish Enlistment Battery in the conscription records (Swedish National Service Administration). Only data for men have been retained. Testing methodology for the enlistment battery has changed somewhat over time, but a simple summary of the scores in the component parts of the test is thought to be an adequate operationalisation of general intelligence (see Carlstedt, B. 2000. Cognitive abilities. PhD thesis, University of Gothenburg.) To avoid artefacts of changes in testing methodology, and secular trends (i.e. Flynn effect), final test scores were standardised by birth cohort.

Years of education is constructed based on educational level and type, coded according to a modified version of the ISCED97 classification system called SUN2000 (Sun2000Niva). These data were retrieved from the LISA database (Statistics Sweden, LISA, Integrated database for labour market research 1990–2018).

- <200 = 7
- 200-299 = 9
- 310-319 = 10
- 320-329 = 11
- 330-339 = 12
- 410-419 = 13
- 520-529 = 14
- 530-539 = 15
- 540-549 = 16
- 550-559 = 17
- 600-629 = 18
- 640-649 = 20

NA

NA

NA

NA

Number of children is calculated based on the Statistics Sweden multi-generation register (Statistics Sweden, Population and Welfare Statistics, Multi-generation register 2018), by counting the number of children connected to a given individual in the latest version of the register (i.e. in 2018). Note that both biological children and adoptive children are counted.

NA

Household income is based on the item "aggregated household income" (SamRakInkHh) from two separate waves of the census (Statistics Sweden, Population and housing census 1985;1990).

This variable contains aggregated household income from six sources: gainful employment, capital income, real estate income, temporary employment, land income and business income, counted in 100's SEK. The entries for each year have been CPI-adjusted (2015 SEK value), logged ($x+1000$) and demeaned by year of birth. The final variable is the average of the two years (unless only one year existed).

NA

Self-rated health is based on items from the following four surveys in the Swedish Twin Register:

- STR SALT (SJALVUPPSKATTAD6)
- STR STAGE (HEALTH)
- STR STAGE ONE (HEALTH)
- STR YATSS (MHI_GENERAL_HEALTH_STAT)

In the SALT survey, the item is scaled as 0-100, in steps of five, whereas the remaining items are scaled 1-5. All items have therefore been rescaled to have the same width, with higher values indicating better self-rated health.

from the STR SALT survey (FELT_DEPR): "Have you ever felt sad, downhearted or depressed for two weeks or longer?" with the options "Yes," "No" and "Yes, I took antidepressive medication." Recoded into a binary response, with both Yes-options as 1 and No as 0.

NA

From SALT survey (ATTITYD1):
"Would you generally describe yourself as:"
1=Not happy at all to 4=Very happy

Tobacco use data is aggregated from the larger tobacco batteries in the following surveys in the Swedish Twin Register: STR Survey, 1973, STR SALT, STR STAGE, STR STAGE ONE, STR YATSS

In the 1973 Survey, the derived variable Smoking Status (NYRA423) is used to construct ever smoker. The three original categories ("Non-smoker", "Current smoker" and "Previous smoker") have been condensed to a binary, with "Non-smoker" indicating never smoker (0) and "Current/Previous smoker" indicating ever smoker (1). Number of cigarettes per day is based on a multiple choice question with five categories: 1-5 per day, 6-10 per day, 11-15 per day, 16-20 per day and 21 or more per day. Category midpoints were used (3, 8, 13 and 18), and 25 imputed for the 21 or more category.

In the SALT Survey, the tobacco items asks about both cigarette smoking and snuff use. Only answers that regard cigarette smoking have been retained. A respondent has been coded as a never smoker (0) if they have answered either of the options "Not even tried" or "Only tried", and coded as ever smoker (1) if they have answered either of the following options: "I smoke now and then", "I smoke regularly", "I smoke at parties", "I used to smoke now and then", "I used to smoke regularly" or "I used to smoke at parties." Number of cigarettes per day is a free-text answer to the question "How much do you/did you use to smoke per day? Answer as precisely as possible".

The tobacco battery in the STAGE Survey similarly asks about both cigarette smoking and snuff use. Only questions that regard cigarette smoking have been retained. Respondents were coded as never smokers (0) if they answered in the affirmative to either of the statements "Never tried" or "Only tried" and as ever smoker (1) if they answered in the affirmative to either of the statements "Smoke/used to smoke now and then or at parties" or "Smoke/used to smoke regularly". No data on cigarettes per day is available in STAGE.

The tobacco battery in the STAGE ONE survey does not contain any directly comparable question on current or past smoking habits, but instead an item on total cigarette use: "Have you smoked more than 100 cigarettes in your whole life?" (CIGS_1). This was used to construct the ever smoker variable, where a negative answer is counted as never smoker (0), and an affirmative answer as ever smoker (1). Cigarettes per day is based on a three-part item where the respondent is asked to indicate in free-text how many cigarettes per day, week or month s/he currently smokes (CIGS3DAY_DAY, CIGS3WEK_WEEK, CIGS3MON_YEAR). Answers for month or week were simply divided by 30 or 7, respectively.

The YATSS Survey, contains the same question: "Have you smoked more than 100 cigarettes in your whole life?" (SMO_1.IFF) and is coded the same way. Cigarettes per day is constructed from the free-text item "How

Alcohol use is aggregated from the larger alcohol use batteries in the following surveys in the Swedish Twin Register: STR SALT, STR STAGE, STR STAGE ONE, STR YATSS

The alcohol battery in the SALT, STAGE and STAGE ONE Surveys contain separate items for weekday and weekend consumption, and for wine, beer and spirits, respectively. Each category consists of a multiple-choice question where the respondent is asked to indicate how many bottles/glasses/cans they typically consume. To obtain the standardised drinks per week, these have been converted to total fluid amounts and multiplied by the typical volume alcohol content per type.

The YATSS Survey instead asks about typical monthly consumption of a wider range of beverages: folk beer, regular beer, strong beer, cider, alcoholic soda, wine and spirits. A similar procedure was followed to convert this to total alcohol amounts, and then converted from monthly to weekly consumption.

Final drinking data was standardised on a per-cohort basis to avoid artefacts of the different measurement approaches.

See "Cigarettes per day"

589-700.

Supplementary Table 10. EA PGI Decomposition

Phenotype	Population	Population SE	Direct	Direct SE	Population Minus Direct
<i><u>Anthropometric:</u></i>					
BMI	-0.1338	0.0048	-0.0854	0.0077	-0.0484
Height	0.1019	0.0047	0.035	0.0068	0.0669
<i><u>Cardiometabolic:</u></i>					
Blood Pressure (Diastolic)	-0.0593	0.0051	-0.031	0.0091	-0.0284
Blood Pressure (Systolic)	-0.0657	0.0051	-0.0446	0.0091	-0.0211
Glucose	-0.0139	0.005	-0.0119	0.0098	-0.002
HDL Cholesterol	0.0821	0.0055	0.0495	0.0089	0.0327
Non-HDL Cholesterol	-0.0255	0.0054	-0.0181	0.0093	-0.0074
<i><u>Cognitive and Education:</u></i>					
Cognitive Performance	0.2449	0.0066	0.1595	0.0109	0.0854
EA	0.33	0.0044	0.1833	0.0073	0.1467
Vocabulary	0.2608	0.0103	0.1553	0.0148	0.1055
<i><u>Fertility:</u></i>					
Age at First Birth (Women)	0.2695	0.0084	0.1773	0.0163	0.0922
Number of Children (Women)	-0.0554	0.0072	-0.0645	0.0142	0.0091
Number of Children (Men)	-0.03	0.0083	-0.0469	0.0171	0.0169
Number of Children (Pooled)	-0.04	0.005	-0.053	0.0097	0.013
<i><u>Income:</u></i>					
Personal Income	0.2435	0.0066	0.1448	0.0126	0.0987
Household Income	0.1858	0.0053	0.1104	0.0099	0.0754
<i><u>Lung:</u></i>					
FEV1	0.0742	0.0054	0.0136	0.0091	0.0606
<i><u>Overall Health:</u></i>					
Self Rated Health	0.1306	0.0051	0.0708	0.0097	0.0598
<i><u>Psychiatric:</u></i>					
Depressive Symptoms	-0.0576	0.0051	-0.0456	0.0102	-0.012
Neuroticism	-0.0645	0.0053	-0.043	0.0096	-0.0215
Subjective Well Being	-0.0085	0.0085	0.0033	0.017	-0.0118
<i><u>Smoking and Drinking:</u></i>					
Cigarettes per Day	-0.0882	0.0074	-0.0469	0.0141	-0.0412
Drinks Per Week	0.0552	0.007	0.0355	0.014	0.0197
Ever Smoker	-0.1046	0.005	-0.0937	0.0091	-0.0109

Notes: This table gives meta-analysis estimates (from UK Biobank, Generation Scotland, and the Swedish Twin Registry) for the difference in EA as $-\log_{10}(P)$ from a two-sided Z-test for non-zero difference between population and direct, and between maternal and paternal effects.

Population Minus Direct SE	Maternal Minus Paternal	Maternal Minus Paternal SE	Population Minus Direct <i>P</i> value	Maternal Minus Paternal <i>P</i> value	Direct- Population Ratio
0.0073	-0.0167	0.029	10.5997	0.2474	0.6336
0.0067	-0.0328	0.0282	22.5249	0.6126	0.3321
0.0083	-0.0211	0.0283	3.1863	0.3411	0.5234
0.0083	-0.0155	0.0284	1.9561	0.232	0.6801
0.0087	-0.0001	0.0283	0.0875	0.0018	0.8552
0.0083	0.057	0.0298	4.1126	1.2523	0.6037
0.0085	-0.0471	0.0295	0.4155	0.9547	0.7104
0.0102	0.0433	0.0312	16.3465	0.7804	0.6562
0.0069	0.0093	0.0279	98.5052	0.1311	0.5564
0.0141	-0.0207	0.0332	13.0846	0.2738	0.5968
0.0149	0.0972	0.0887	9.2352	0.5634	0.6591
0.0129	0.0337	0.0709	0.3165	0.1974	1.1631
0.0154	-0.0033	0.0862	0.5675	0.0135	1.5599
0.0089	0.0187	0.0548	0.8467	0.1348	1.3148
0.0116	-0.0426	0.0556	16.8267	0.3539	0.5961
0.0091	0.0632	0.0559	15.8402	0.5879	0.5843
0.0084	-0.0152	0.0299	12.3077	0.214	0.1839
0.0089	0.0483	0.0543	10.7095	0.4275	0.5387
0.0092	-0.0177	0.0566	0.7113	0.1225	0.786
0.0088	0.0037	0.0286	1.8468	0.0474	0.6682
0.0155	-0.0779	0.0956	0.3512	0.3821	-0.3592
0.0127	0.0063	0.0483	2.9174	0.0477	0.5233
0.0127	0.071	0.1046	0.9206	0.303	0.6903
0.0085	-0.0246	0.0549	0.7059	0.1844	0.9019

irect, population, difference between population and direct, and difference between maternal and paternal effects. *F* ts.

Direct-
Population SE

0.0523

0.063

0.1403

0.1248

0.6262

0.098

0.329

0.0406

0.0204

0.0516

0.055

0.2349

0.5371

0.224

0.0474

0.0487

0.1181

0.068

0.1603

0.1347

1.8866

0.148

0.228

0.0794

' values are given

Supplementary Table 11. Height PGI Decomposition

Phenotype	Population	Population S.E.	Direct	Direct S.E.	Population Minus Direct
<i><u>Anthropometric:</u></i>					
BMI	-0.0571	0.0052	-0.044	0.0079	-0.0131
Height	0.5835	0.0043	0.531	0.0056	0.0525
<i><u>Cardiometabolic:</u></i>					
Blood Pressure (Diastolic)	-0.0256	0.0051	-0.015	0.0086	-0.0106
Blood Pressure (Systolic)	-0.0361	0.0051	-0.0221	0.0086	-0.0141
Glucose	0.0051	0.005	0.0018	0.0093	0.0033
HDL Cholesterol	0.006	0.0055	-0.0149	0.0084	0.0209
Non-HDL Cholesterol	-0.0346	0.0053	-0.0287	0.0088	-0.006
<i><u>Cognitive and Education:</u></i>					
Cognitive Performance	0.0468	0.0074	0.022	0.0113	0.0248
EA	0.0627	0.0051	0.0147	0.0079	0.048
Vocabulary	0.0522	0.0106	0.0303	0.0142	0.0219
<i><u>Fertility:</u></i>					
Age at First Birth (Women)	0.0756	0.0088	0.0474	0.0159	0.0282
Number of Children (Women)	-0.0223	0.0072	-0.0008	0.0136	-0.0216
Number of Children (Men)	0.0019	0.0083	0.0011	0.0162	0.0009
Number of Children (Pooled)	-0.0118	0.0056	-0.0002	0.0102	-0.0116
<i><u>Income:</u></i>					
Personal Income	0.0494	0.0069	0.0196	0.0121	0.0297
Household Income	0.0536	0.0061	0.0281	0.0105	0.0255
<i><u>Lung:</u></i>					
FEV1	0.2142	0.0052	0.1738	0.0085	0.0404
<i><u>Overall Health:</u></i>					
Self Rated Health	0.0262	0.0057	0.001	0.0101	0.0252
<i><u>Psychiatric:</u></i>					
Depressive Symptoms	-0.0194	0.0057	0.0127	0.0106	-0.0321
Neuroticism	-0.0158	0.0053	-0.0035	0.0091	-0.0123
Subjective Well Being	-0.0096	0.01	-0.0228	0.0188	0.0132
<i><u>Smoking and Drinking:</u></i>					
Cigarettes per Day	-0.0242	0.0082	-0.0005	0.0149	-0.0237
Drinks per Week	0.0137	0.0095	-0.0012	0.0179	0.0149
Ever Smoker	-0.0119	0.0057	0.0109	0.0099	-0.0228

Notes : This table gives meta-analysis estimates (from UK Biobank and Generation Scotland) for the direct, population, and direct minus population effects. The direct effect is the difference between population and direct, and between maternal and paternal effects.

Population Minus Direct S.E.	Maternal Minus Paternal	Maternal Minus Paternal S.E.	Direct Minus Population Ratio	Direct Minus Population Ratio S.E.	Population Minus Direct <i>P</i> value	Maternal Minus Paternal <i>P</i> value
0.0073	-0.042	0.0277	0.7708	0.1249	1.1332	0.8877
0.0057	0.0385	0.023	0.9101	0.0095	19.6669	1.0232
0.0077	-0.0005	0.0271	0.5859	0.301	0.7712	0.0067
0.0077	-0.0029	0.0271	0.6106	0.2125	1.1667	0.0383
0.0081	0.0137	0.0273	0.3463	1.6865	0.1659	0.2114
0.0077	0.0049	0.0288	-2.4936	3.1733	2.1777	0.0625
0.0079	-0.0261	0.0285	0.8278	0.2262	0.3456	0.4429
0.0104	0.0541	0.0307	0.4708	0.2181	1.7667	1.1084
0.0073	0.0155	0.0278	0.2341	0.1186	10.2227	0.2378
0.0134	-0.0029	0.0335	0.5801	0.2428	0.9942	0.0311
0.0143	-0.0202	0.0803	0.6264	0.1887	1.3224	0.0964
0.0121	0.003	0.0635	0.0349	0.603	1.122	0.0169
0.0144	0.0293	0.0805	0.5489	7.654	0.0213	0.1455
0.0092	0.014	0.0498	0.0154	0.8645	0.685	0.1082
0.011	-0.0633	0.0515	0.3978	0.2263	2.1581	0.6603
0.0096	0.0209	0.0521	0.5235	0.1789	2.1044	0.1622
0.0077	0.0037	0.0278	0.8114	0.0355	6.8053	0.0486
0.0091	0.0079	0.0498	0.0393	0.3825	2.2399	0.0585
0.0095	-0.0627	0.051	-0.6559	0.6555	3.145	0.6593
0.0081	-0.0024	0.0273	0.2202	0.5472	0.8885	0.032
0.0169	-0.0602	0.0818	2.3747	2.3715	0.3619	0.3357
0.0132	-0.0181	0.0478	0.0191	0.6141	1.1413	0.152
0.0159	-0.0122	0.088	-0.0842	1.3324	0.4546	0.0506
0.009	-0.0499	0.05	-0.9237	1.1043	1.9398	0.4966

lifference between population and direct, and difference between maternal and paternal effects. *P* values are given as $-\log_{10}(P)$

Direct- Population Ratio	Direct- Population S.E.
0.7707	0.1248
0.9101	0.0094
0.5858	0.3009
0.6105	0.2125
0.3462	1.6864
-2.4936	3.1732
0.8277	0.2261
0.4707	0.2181
0.234	0.1185
0.58	0.2428
0.6264	0.1887
0.0349	0.603
0.5488	7.654
0.0153	0.8644
0.3978	0.2262
0.5235	0.1788
0.8113	0.0354
0.0392	0.3825
-0.6559	0.6554
0.2202	0.5471
2.3747	2.3715
0.019	0.6141
-0.0841	1.3324
-0.9237	1.1042

† from a two-sided Z -test for non-

Supplementary Table 12. BMI PGI Decomposition

Phenotype	Population	Population S.E.	Direct	Direct S.E.	Population Minus Direct
<i><u>Anthropometric:</u></i>					
BMI	0.3898	0.005	0.3751	0.0075	0.0147
Height	-0.086	0.005	-0.0391	0.0068	-0.0468
<i><u>Cardiometabolic:</u></i>					
Blood Pressure (Diastolic)	0.0909	0.0051	0.0708	0.0084	0.0201
Blood Pressure (Systolic)	0.0569	0.0051	0.0294	0.0083	0.0275
Glucose	0.0293	0.005	0.0307	0.0089	-0.0014
HDL Cholesterol	-0.131	0.0054	-0.1201	0.0081	-0.0109
Non-HDL Cholesterol	0.0193	0.0053	0.015	0.0085	0.0043
<i><u>Cognitive and Education:</u></i>					
Cognitive Performance	-0.0692	0.0071	-0.0182	0.0109	-0.051
EA	-0.11	0.0051	-0.0266	0.0076	-0.0834
Vocabulary	-0.0902	0.0105	-0.0104	0.0137	-0.0797
<i><u>Fertility:</u></i>					
Age at First Birth (Women)	-0.1025	0.0084	-0.0319	0.015	-0.0707
Number of Children (Women)	0.0125	0.0072	-0.0048	0.0131	0.0173
Number of Children (Men)	0.0333	0.0082	0.0278	0.0155	0.0056
Number of Children (Pooled)	0.0214	0.0055	0.0095	0.0099	0.0119
<i><u>Income:</u></i>					
Personal Income	-0.0822	0.0066	-0.0255	0.0116	-0.0567
Household Income	-0.0782	0.0059	-0.0228	0.0101	-0.0555
<i><u>Lung:</u></i>					
FEV1	-0.0581	0.0053	-0.0281	0.0084	-0.03
<i><u>Overall Health:</u></i>					
Self Rated Health	-0.1319	0.0056	-0.1048	0.0097	-0.0271
<i><u>Psychiatric:</u></i>					
Depressive Symptoms	0.0441	0.0057	0.0367	0.0102	0.0073
Subjective Well Being	0.0147	0.0099	0.0103	0.0183	0.0044
<i><u>Smoking and Drinking:</u></i>					
Cigarettes per Day	0.0936	0.0082	0.0639	0.0144	0.0296
Drinks per Week	-0.0643	0.0093	-0.0292	0.0176	-0.0351
Ever Smoker	0.0449	0.0057	0.0466	0.0095	-0.0016

Notes: This table gives meta-analysis estimates (from UK Biobank and Generation Scotland) for the direct, population, diff from a two-sided Z-test for non-zero difference between population and direct, and between maternal and paternal effects.

Population Minus Direct S.E.	Maternal Minus Paternal	Maternal Minus Paternal S.E.	Population Minus Direct <i>P</i> value	Maternal Minus Paternal <i>P</i> value	Direct- Population Ratio	Direct- Population S.E.
0.0068	0.007	0.0248	1.5052	0.1097	0.9622	0.0174
0.0065	-0.0052	0.0258	12.206	0.0754	0.4551	0.0718
0.0074	0.0018	0.0258	2.1977	0.0251	0.7787	0.0803
0.0074	-0.0166	0.0259	3.7373	0.2822	0.5164	0.1302
0.0077	-0.0397	0.0257	0.0676	0.9122	1.0479	0.2646
0.0073	-0.0214	0.027	0.8622	0.3695	0.9168	0.0553
0.0076	-0.0227	0.0269	0.2417	0.3985	0.7793	0.3872
0.0098	0.0351	0.0288	6.7215	0.6505	0.2624	0.1462
0.007	-0.0138	0.0265	31.7462	0.2205	0.2418	0.065
0.0128	0.0344	0.031	9.3056	0.5721	0.1158	0.1463
0.0132	0.1012	0.0832	7.0581	0.6503	0.3107	0.1359
0.0115	0.0218	0.0676	0.8772	0.1265	-0.381	1.1677
0.0137	0.0838	0.0776	0.1647	0.5528	0.8332	0.4096
0.0087	0.0485	0.051	0.7611	0.4663	0.4443	0.4184
0.0103	0.0935	0.0522	7.4161	1.1363	0.3103	0.1311
0.0091	-0.0687	0.0531	9.0113	0.7086	0.291	0.1208
0.0075	0.0045	0.0271	4.2481	0.0607	0.4832	0.1287
0.0086	-0.019	0.0504	2.7729	0.1507	0.7944	0.065
0.009	-0.0163	0.0532	0.3804	0.1193	0.8336	0.2038
0.016	0.1323	0.0854	0.1065	0.9157	0.7	1.0939
0.0125	-0.0169	0.0453	1.7484	0.1487	0.6833	0.1341
0.0154	0.0264	0.0954	1.6462	0.107	0.4535	0.2484
0.0086	0.0149	0.0508	0.0709	0.1141	1.0362	0.1915

ference between population and direct, and difference between maternal and paternal effects. *P* values are given as $-\log_{10}(P)$

Supplementary Table 13. Cognitive Performance PGI Decomposition

Phenotype	Population	Population S.E.	Direct	Direct S.E.	Population Minus Direct
<i><u>Anthropometric:</u></i>					
BMI	-0.0491	0.0047	-0.0214	0.0071	-0.0276
Height	0.0556	0.0048	0.0232	0.006	0.0324
<i><u>Cardiometabolic:</u></i>					
Blood Pressure (Diastolic)	-0.0207	0.0051	-0.0088	0.0084	-0.0119
Blood Pressure (Systolic)	-0.0297	0.0051	-0.0196	0.0084	-0.0101
Glucose	0.0054	0.005	0.0158	0.009	-0.0104
HDL Cholesterol	0.0259	0.0054	0.0107	0.0082	0.0152
Non-HDL Cholesterol	-0.0075	0.0053	-0.0103	0.0086	0.0028
<i><u>Cognitive and Education:</u></i>					
Cognitive Performance	0.2696	0.0064	0.2222	0.0099	0.0474
EA	0.1949	0.0046	0.1025	0.0064	0.0924
Vocabulary	0.2202	0.0103	0.1704	0.0134	0.0498
<i><u>Fertility:</u></i>					
Age at First Birth (Women)	0.1253	0.0087	0.0807	0.0155	0.0446
Number of Children (Women)	-0.0275	0.0072	-0.0283	0.0133	0.0008
Number of Children (Men)	-0.0276	0.0083	-0.032	0.0157	0.0044
Number of Children (Pooled)	-0.0217	0.0049	-0.0291	0.0089	0.0073
<i><u>Income:</u></i>					
Personal Income	0.1475	0.0067	0.0753	0.0117	0.0722
Household Income	0.0932	0.0053	0.0416	0.0092	0.0516
<i><u>Lung:</u></i>					
FEV1	0.0418	0.0054	0.0167	0.0084	0.0251
<i><u>Overall Health:</u></i>					
Self Rated Health	0.067	0.0051	0.0227	0.009	0.0443
<i><u>Psychiatric:</u></i>					
Depressive Symptoms	-0.0278	0.0051	-0.011	0.0094	-0.0167
Neuroticism	-0.0345	0.0053	-0.0278	0.0089	-0.0067
Subjective Well Being	-0.0094	0.0085	-0.0227	0.0158	0.0133
<i><u>Smoking and Drinking:</u></i>					
Cigarettes per Day	-0.0084	0.0072	0.0054	0.0129	-0.0138
Drinks per Week	0.0424	0.0069	0.014	0.0129	0.0283
Ever Smoker	-0.0314	0.005	-0.0178	0.0084	-0.0136

Notes: This table gives meta-analysis estimates (from UK Biobank, Generation Scotland, and the Swedish Twin Registry) for the direct effect of each phenotype on cognitive performance. The direct effects are given as $-\log_{10}(P)$ from a two-sided Z-test for non-zero difference between population and direct, and between maternal and paternal effects.

Population Minus Direct S.E.	Maternal Minus Paternal	Maternal Minus Paternal S.E.	Population Minus Direct <i>P</i> value	Maternal Minus Paternal <i>P</i> value	Direct- Population Ratio	Direct- Population S.E.
0.0065	0.0329	0.0263	4.711	0.6749	0.4365	0.1313
0.0059	-0.0327	0.026	7.3536	0.6819	0.4169	0.0986
0.0073	-0.001	0.0257	0.9788	0.0141	0.4253	0.3649
0.0073	0.0002	0.0257	0.7732	0.0028	0.6609	0.2455
0.0077	-0.033	0.0256	0.7587	0.7075	2.9414	2.3543
0.0073	-0.0068	0.027	1.4219	0.0964	0.412	0.2848
0.0075	0.0114	0.0268	0.1483	0.1735	1.3715	1.0702
0.009	0.0271	0.0284	6.9159	0.4686	0.8242	0.0326
0.0061	-0.0029	0.0261	50.8108	0.0404	0.526	0.0298
0.0126	0.0041	0.0306	4.1355	0.0488	0.7739	0.0545
0.0135	0.0079	0.0845	2.9991	0.0335	0.6441	0.1089
0.0115	0.0535	0.0664	0.0238	0.3766	1.0279	0.4183
0.0136	-0.0596	0.0707	0.1256	0.3988	1.1575	0.4959
0.0079	0.0004	0.0484	0.4542	0.0031	1.337	0.3757
0.0103	-0.0226	0.05	11.522	0.1866	0.5105	0.0712
0.0082	0.0217	0.05	9.5356	0.1776	0.4464	0.0892
0.0074	-0.0376	0.027	3.138	0.7846	0.4002	0.1813
0.008	0.0255	0.0484	7.5672	0.2236	0.3392	0.1246
0.0082	-0.0415	0.0501	1.3866	0.3906	0.3973	0.3078
0.0077	0.0045	0.0259	0.413	0.0645	0.8063	0.2223
0.0138	-0.1442	0.0857	0.4762	1.034	2.4227	2.0079
0.0113	0.0109	0.0435	0.6558	0.0958	-0.6512	1.8838
0.0114	0.034	0.0816	1.8966	0.1693	0.3313	0.2822
0.0076	-0.0711	0.0487	1.1455	0.8391	0.5659	0.2399

irect, population, difference between population and direct, and difference between maternal and paternal effects. *P* values
rnal effects.

Table 14. Summary Overview of Mate-Pair PGI Analyses

							EA
PGI trait correlation							PGI
Mate-Pair Correlation:	Phenotypic	Fathers	Mothers	PGI, Predicted	PGI, observed	EA	Cubic function of EA
<u>UKB:</u>							
Est	0.465	0.297	0.307	0.042	0.174	0.082	0.084
S.E.	0.027	0.031	0.031	0.008	0.033	0.034	0.034
N	861						
<u>Generation Scotland:</u>							
Est	0.406	0.261	0.259	0.027	0.175	0.126	0.123
S.E.	0.022	0.024	0.024	0.004	0.024	0.026	0.026
N	1483						
<u>Pooled:</u>							
Est	0.430	0.274	0.276	0.031	0.175	0.110	0.109
S.E.	0.017	0.019	0.019	0.004	0.020	0.021	0.021

Residualized on...			BMI					
			PGI trait correlation					PGI
EA+40 PCs	EA+40PCs+CP+VOCAB	EA+40PCs+Birth Coordinates+Center	Phenotypic	Fathers	Mothers	PGI, Predicted	PGI, observed	BMI
0.051	NA	0.042	0.242	0.382	0.322	0.030	0.027	0.016
0.034	NA	0.035	0.032	0.031	0.031	0.006	0.033	0.034
			857					
0.113	0.083	NA	0.228	0.382	0.376	0.033	0.001	-0.018
0.026	0.027	NA	0.022	0.024	0.022	0.005	0.025	0.025
			1581					
0.091	NA	NA	0.233	0.382	0.358	0.032	0.010	-0.006
0.021	NA	NA	0.019	0.017	0.018	0.004	0.020	0.020

		Cog Perf						
I Residualized on...		PGI trait correlation					PGI Residualized c	
Cubic function of BMI	BMI+40 PCs	Phenotypic	Fathers	Mothers	PGI,	PGI, observed	CP	Cubic function of CP
					Predicted			
0.016	0.001	0.139	0.246	0.366	0.013	0.019	0.082	0.128
0.035	0.034	0.067	0.062	0.058	0.008	0.034	0.068	0.067
		218						
-0.018	-0.018	0.242	0.195	0.180	0.008	0.024	-0.039	0.011
0.025	0.025	0.024	0.024	0.024	0.002	0.025	0.026	0.026
		1535						
-0.006	-0.012	0.230	0.202	0.208	0.009	0.022	0.023	0.026
0.020	0.020	0.023	0.023	0.023	0.002	0.020	0.024	0.024

		Height							
on...		PGI trait correlation			PGI Residualized on...				
CP+40 PCs		Phenotypic	Fathers	Mothers	PGI, Predicted	PGI, observed	Height	Cubic function of height	Height+40 PCs
		0.035	0.247	0.529	0.580	0.076	0.052	0.003	0.001
0.068	0.032	0.025	0.023	0.012	0.034	0.035	0.035	0.035	
		858							
0.017	0.311	0.517	0.579	0.093	0.133	0.053	0.055	0.036	
0.026	0.023	0.018	0.017	0.009	0.025	0.025	0.025	0.025	
		1593							
0.019	0.290	0.521	0.579	0.087	0.106	0.036	0.037	0.030	
0.024	0.018	0.015	0.013	0.007	0.020	0.020	0.020	0.020	

Supplementary Table 15. Description of new data included in the genome-wide association study of educational attainment

Panel A. Cohorts

Study	Full name	Sampling	Country	N	
				<i>N</i>	<i>N</i> EA3
23andMe	23andMe, Inc	Genomics company	Primarily US	2,272,216	365,538
EA3 excl UKB and 23andMe		See [3]		324,162	324,162
UKB	UK Biobank (Full Release)	Population-based	United Kingdom	441,121	442,183

Panel B. Cohort-level educational attainment measures and phenotype distribution

Study	Educational attainment measure(s)	Coding (US Years of Schooling)	<i>EduYears</i> mean (SD)
23andMe	What is the highest level of education you have completed?	1) 10 2) 12 3) 14 4) 16 5) 19 6) 22	15.71 (2.65)
EA3 excl UKB and 23andMe	See [3]		13.58 (3.72)
UKB	Which of the following qualifications do you have? (You can select more than one)?	1) 20 2) 13 3) 10 4) 10 5) Age left schooling - 5 6) 15 7) 7 8) Excluded Highest category assigned to respondents	15.23 (5.55)

Panel C. Genotyping and imputation

Study	Platform	SNP level exclusions			
		MAF	Call rate	HWE <i>P</i> -value	Other exclusion:

23andMe	v1-v2: Two variants of Illumina HumanHap550+ BeadChip (including about 25,000 custom SNPs selected by 23andMe, with a total of about 560,000 SNPs), v3: Illumina OmniExpress+ BeadChip with custom content (950,000 SNPs), v4: Illumina custom array including a lower redundancy subset of v2 and v3 SNPs with additional coverage of lower-frequency coding variation, and about 570,000 SNPs, v5: Illumina Infinium Global Screening Array (~640,000 SNPs) supplemented with ~50,000 SNPs of custom content, specifically designed to better capture global genetic diversity	0.001	0.95	10^{-20}	1) Correlation with sequence data ≤ 0.9 2) Frequency inconsistent with gnomAD ($ Z \geq 100$)
EA3 excl UKB and 23andMe	See [3]				
UKB	See [6]				

Notes : "Call rate" under SNP-level quality controls refers to the minimum percentage of successfully genotyped SNPs required for the fraction of SNPs successfully genotyped in order for the subject to be retained in the sample. MAF: Minor allele frequency. HWE: Hardy

References

- [1] Eriksson, N. *et al.* Web-Based, Participant-Driven Studies Yield Novel Genetic Associations for Common Traits. *PLoS Genet*
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- [4] Marchini, J. *et al.* Genotype imputation and genetic association studies of UK Biobank: Interim Data Release. (2015). *Acc*
- [5] Sudlow, C. *et al.* UK Biobank: An open access resource for identifying the causes of a wide range of complex diseases of
- [6] Bycroft, C. *et al.* Genome-wide genetic data on ~500,000 UK Biobank Participants. *bioRxiv*, preprint first posted online J

Additive GWAS			Dominance GWAS			Cohort profile
ΔN EA4	Birth year (Mean/Range)	Fraction female	N	Birth year (Mean/Range)	Fraction female	
1,906,678	1969 (1901-2003)	0.56	2,272,216	1969 (1901-2003)	0.56	[1], [2]
0	See [3]		N/A	N/A	N/A	[3]
-1,062	1951 (1934-1970)	0.54	302,037	1951 (1936-1970)	0.54	[4],[5],[6]

Subject level exclusions		Imputation software and reference sample		
Call rate	Other exclusions	Software	Reference panel	Sample

0.99	1) Close relatives (>700 cM IBD) 2) Non-European ancestries and ancestry outliers (European + Middle Eastern < 0.97, European < 0.90) (see https://www.23andme.com/ancestry-composition-guide/)	Minimac3	Combination of May 2015 release of the 1000 Genomes Phase 3 haplotypes and the UK10K imputation reference panel	All
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SNP to be included in the set of genotyped SNPs. "Call rate" under subject-level exclusions is the minimum γ -Weinberg equilibrium.

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ul. 20, 2017; doi: <http://dx.doi.org/10.1101/166298>

Supplementary Table 16. Description of SNP filtering in *EduYears* analyses

Cohort	#SNPs before QC			#SNPs dropped at each filtering s		
	#1 Missing / invalid values	#2 MAF	#3 Genotyped marker HWE P value / Call rate < 0.95	#4 Imputation accuracy	#5 S.E. Ratio < 0.5 or > 2	
Panel A. Main <i>EduYears</i> GWAS						
23andMe - additive	13,297,644	13,692	13,825	392	864,230	0
23andMe - dominance	13,296,768	6,277	4,074,201	392	1,600,807	43,380
UKB - additive	17,540,466	7	3,004,233	103,604	0	9
UKB - dominance	8,891,332	355	44,540	71,600	328,795	12,711
Panel B. X chromosome GWAS						
23andMe - X chr	346,055	375	407	156	37,855	N/A
UKB - X chr	1,165,215	0	579,027	493	153,671	N/A
Panel C. Supplementary GWAS						
UKB unrelated - <i>EduYears</i>	17,540,466	9	3,003,275	103,604	0	11
UKB unrelated - BMI	17,540,466	9	3,003,107	103,604	0	11
UKB unrelated - Height	17,540,466	9	3,003,336	103,604	0	2
UKB unrelated - Cognitive performance	17,540,466	157	3,002,285	103,604	0	12
Locke et al. - BMI	2,526,987	53,041	12	0	0	27,513
Trampush et al. - Cognitive performance	8,040,130	0	0	0	137,311	23
Wood et al. - Height	2,520,184	1,821	3,738	0	0	12,268

Notes: "Missing / invalid values" refers to missing or invalid values for effect allele frequency, $Beta$, S.E., P value, imputation accuracy. The MAF thresholds were 0.1% for the additive GWAS (including all GWAS in Panels B and C) and 1% for the dominance GWAS. "HWE" refers to Hardy-Weinberg equilibrium exact test". HWE P value thresholds were 10^{-20} for the autosomal GWAS. R^2 (explained variance) filter was omitted from the table because it was not used for the X chromosome GWAS.

step #SNPs after QC λ_{GC} Max N

#6 INDEL	#7 Non-autosomal marker	#8 Invalid or duplicated position / Allele mismatch				
1,338,484	269,729	1,311,072	9,486,220	3.581	2,272,216	
811,335	114,862	511,519	6,133,995	1.009	2,272,216	
1,402,674	0	2,060,753	10,969,186	1.694	441,121	
742,642	0	541,130	7,149,559	1.012	302,037	
37,600	N/A	40,663	228,999	3.950	2,272,216	
39,860	N/A	59,101	333,063	1.624	440,817	
1,402,802	0	2,060,393	10,970,372	1.624	383,050	
1,402,799	0	2,060,387	10,970,549	1.694	380,783	
1,402,785	0	2,060,381	10,970,349	2.001	386,541	
1,403,246	0	2,053,768	10,977,394	1.369	197,076	
0	0	7,357	2,439,064	1.073	322,154	
0	0	12,524	7,890,272	1.108	35,298	
0	0	7,316	2,495,041	1.920	253,280	

accuracy, or the imputed/genotyped indicator. "MAF" refers to minor allele frequency. . The imputation accuracy thresholds were 0.7 for the additive GWAS and 0.9 for the al GWAS and 10^{-10} for the X chromosome GWAS. "S.E. Ratio" refers to the ratio of o variants were dropped. The S.E. ratio and R^2 filters were not applied to the X

Supplementary Table 17. Results from UKB X chromosome analyses under different MAF cutoffs

	N_{male}	N_{female}	Number of SNPs	$\hat{\lambda}_{GC,male}$	$\hat{\lambda}_{GC,female}$	r_g	S.E.(r_g)	DC ratio
MAF > 0.0001	201456	239361	1165370	1.18	1.29	0.94	0.029	0.76
MAF > 0.001	201456	239361	580701	1.33	1.51	0.93	0.029	0.76
MAF > 0.01	201456	239361	309007	1.55	1.84	0.94	0.03	0.78

Notes: r_g is the genetic correlation between males and females. "DC" is dosage compensation.

S.E.(DC ratio)	h^2_{male}	h^2_{female}	Mean χ^2 - no DC	Mean χ^2 - full DC
0.23	0.0012	0.0016	1.45	1.43
0.14	0.0021	0.0028	1.81	1.77
0.1	0.0036	0.0046	2.35	2.29

Supplementary Table 18. Decomposition of the variation in the estimates of $d_{j,sta}$ and of $\alpha_{j,sta}$

Sets of SNPs	Decomposition of the variation in	
	$\hat{\text{Var}}(\hat{d}_{j,sta})$	$\hat{\text{E}}[\sigma^2_{d,j}]$
All SNPs	2.61E-06	2.59E-06
MAF in [0.01, 0.02]	1.32E-05	1.30E-05
MAF in [0.02, 0.03]	7.92E-06	7.88E-06
MAF in [0.03, 0.04]	5.47E-06	5.51E-06
MAF in [0.04, 0.05]	4.20E-06	4.23E-06
MAF in [0.05, 0.07]	3.23E-06	3.15E-06
MAF in [0.07, 0.09]	2.32E-06	2.30E-06
MAF in [0.09, 0.11]	1.79E-06	1.80E-06
MAF in [0.11, 0.13]	1.49E-06	1.47E-06
MAF in [0.13, 0.15]	1.25E-06	1.24E-06
MAF in [0.15, 0.18]	1.04E-06	1.04E-06
MAF in [0.18, 0.21]	8.53E-07	8.59E-07
MAF in [0.21, 0.24]	7.20E-07	7.34E-07
MAF in [0.24, 0.27]	6.35E-07	6.41E-07
MAF in [0.27, 0.30]	5.79E-07	5.72E-07
MAF in [0.30, 0.35]	5.11E-07	5.03E-07
MAF in [0.35, 0.40]	4.53E-07	4.45E-07
MAF in [0.40, 0.45]	4.12E-07	4.11E-07
MAF in [0.45, 0.5]	3.94E-07	3.95E-07

Notes: The table shows the results of the decomposition of $\hat{\text{Var}}(\hat{d}_{j,sta})$ (the estimated variance in the standardized additive effect sizes $\alpha_{j,sta}$). As shown in the Supplementary Note, $\hat{\text{Var}}(\hat{d}_{j,sta}) = \hat{\text{Var}}(d_j)$ effect sizes. We can similarly decompose $\hat{\text{Var}}(\hat{\alpha}_{j,sta})$. Supplementary Note 4.5 provides further details.

l for various set of SNPs

estimates of $d_{j,std}$	Decomposition of the variation in	
	$\hat{\text{Var}}(d_{j,std}) / \hat{\text{Var}}(\hat{d}_{j,std})$	$\hat{\text{Var}}(\hat{\alpha}_{j,std})$
0.68%	2.43E-06	4.92E-07
1.01%	1.27E-06	5.65E-07
0.56%	1.45E-06	4.88E-07
-0.82%	1.68E-06	4.57E-07
-0.70%	1.72E-06	4.38E-07
2.59%	1.94E-06	4.34E-07
0.76%	2.26E-06	4.19E-07
-0.65%	2.59E-06	4.11E-07
1.45%	2.78E-06	4.00E-07
1.05%	2.88E-06	3.99E-07
0.44%	3.30E-06	3.93E-07
-0.72%	3.55E-06	3.90E-07
-1.92%	4.69E-06	3.87E-07
-0.89%	3.80E-06	3.85E-07
1.27%	4.07E-06	3.83E-07
1.71%	4.36E-06	3.81E-07
1.71%	4.42E-06	3.84E-07
0.40%	4.47E-06	3.83E-07
-0.16%	4.85E-06	3.84E-07

estimates of the true standardized dominance effect sizes $d_{j,std}$ and of $\hat{\text{Var}}(\hat{\alpha}_{j,std})$ (the estimated variance $\hat{\text{Var}}(d_{j,std}) + \hat{\text{E}}[\sigma_{d,j}^2]$). $\hat{\text{Var}}(d_{j,std}) / \hat{\text{Var}}(\hat{d}_{j,std})$ is the ratio of the variance in the true dominance effect sizes over the v
iils.

estimates of $\alpha_{j,std}$

$$\hat{\text{Var}}(\alpha_{j,std}) / \hat{\text{Var}}(\hat{\alpha}_{j,std})$$

79.77%
55.54%
66.36%
72.83%
74.53%
77.66%
81.45%
84.12%
85.60%
86.14%
88.07%
89.01%
91.75%
89.86%
90.58%
91.26%
91.31%
91.43%
92.08%

in the estimates of the true
variance in the estimated dominance

Supplementary Table 19. Actual and expected replication record for the UKB->23andMe replication of the

Panel A: UKB->23andMe replication		
	SNPs with P value ≤ 1 in the UKB GWAS ($M = 164,406$)	SNPs with P value ≤ 0.01 in the UKB GWAS ($M = 8,262$)
Panel A.1: UKB->23andMe replication: test (i)		
Panel A.1.i: Actual replication record		
	0.5028 $P = 0.01$	0.4938 $P = 0.87$
Panel A.1.ii: Statistical power of the test as a function of the :		
$\Omega = 1e-4$	5.9%	8.9%
1e-3	19.1%	66.8%
0.01	100.0%	100.0%
0.1	100.0%	100.0%
0.25	100.0%	100.0%
0.5	100.0%	100.0%
0.75	100.0%	100.0%
1	100.0%	100.0%
Panel A.1.iii: Expected replication record as a function of the :		
$\Omega = 1e-4$	0.5001 (0.0012)	0.5008 (0.0056)
1e-3	0.5009 (0.0012)	0.5113 (0.0053)
0.01	0.5057 (0.0013)	0.5485 (0.0054)
0.1	0.5149 (0.0012)	0.5640 (0.0054)
0.25	0.5185 (0.0012)	0.5644 (0.0053)
0.5	0.5209 (0.0012)	0.5656 (0.0056)
0.75	0.5220 (0.0012)	0.5666 (0.0055)
1	0.5228 (0.0012)	0.5669 (0.0053)
Panel A.2: UKB->23andMe replication: test (ii)		
Panel A.2.i: Actual replication record		
	0.0503 $P = 0.29$	0.0466 $P = 0.92$
Panel A.2.ii: Statistical power of the test as a function of the :		
$\Omega = 1e-4$	6.9%	21.3%
1e-3	92.6%	100.0%
0.01	100.0%	100.0%
0.1	100.0%	100.0%
0.25	100.0%	100.0%
0.5	100.0%	100.0%

	0.75	100.0%	100.0%
	1	100.0%	100.0%
Panel A.2.iii: Expected replication record as a function of the			
<i>Omega</i> = 1e-4		0.0501 (0.0005)	0.0519 (0.0025)
	1e-3	0.0517 (0.0005)	0.0715 (0.0027)
	0.01	0.0598 (0.0006)	0.1387 (0.0037)
	0.1	0.0700 (0.0006)	0.1407 (0.0039)
	0.25	0.0705 (0.0006)	0.1185 (0.0034)
	0.5	0.0696 (0.0006)	0.1039 (0.0034)
	0.75	0.0690 (0.0006)	0.0974 (0.0033)
	1	0.0686 (0.0006)	0.0938 (0.0032)

Notes: Panel A shows the actual and simulated replication record for the replication of the UKB dominance GWA test (i) as a function of the assumed value of omega (Panel A.1.ii), and the expected replication record and its standard deviation computed using simulations for various assumed values of omega (the fraction of nonnull SNPs). In Panel A.1.ii, α Panel A.2 mirrors Panel A.1 but shows the actual and simulated replication record for test (ii), and Panel B mirrors Test (i) (the sign test, in Panels A.1.i and B.1.i) is a binomial test of the null hypothesis that a fraction 0.5 of the test values smaller than 0.1 in the replication cohort. Supplementary Note 4.6 provides further details.

re dominance GWAS

n

SNPs with P value $\leq 1e-4$
in the UKB GWAS
($M = 149$)

SNPs with P value $\leq 1e-6$
in the UKB GWAS
($M = 1$)

(the sign test)

0.5302
 $P = 0.21$

1
 $P = 0.00$

assumed value of omega

14.4%	76.9%
100.0%	98.8%
100.0%	99.6%
98.5%	91.9%
91.8%	76.0%
83.7%	74.3%
81.8%	69.5%
77.6%	72.5%

Omega = 1e-4
1e-3
0.01
0.1
0.25
0.5
0.75
1

assumed value of omega

0.5256 (0.0400)	0.7690 (0.4217)
0.6839 (0.0371)	0.9880 (0.1089)
0.7588 (0.0336)	0.9960 (0.0632)
0.6526 (0.0369)	0.9190 (0.2730)
0.6195 (0.0379)	0.7600 (0.4273)
0.6065 (0.0391)	0.7430 (0.4372)
0.6020 (0.0390)	0.6950 (0.4606)
0.5983 (0.0403)	0.7250 (0.4467)

Omega = 1e-4
1e-3
0.01
0.1
0.25
0.5
0.75
1

test (ii)

0.0537
 $P = 0.33$

0
 $P = 0.05$

assumed value of omega

85.1%	56.2%
100.0%	97.1%
100.0%	99.2%
100.0%	79.7%
100.0%	44.2%
99.4%	28.9%

Omega = 1e-4
1e-3
0.01
0.1
0.25
0.5

	96.2%	21.5%	0.75
	92.7%	18.7%	1
assumed value of omega			
	0.1021	0.5620	Omega = 1e-4
	(0.0242)	(0.4964)	
	0.3973	0.9710	1e-3
	(0.0372)	(0.1679)	
	0.5376	0.9920	0.01
	(0.0333)	(0.0891)	
	0.2907	0.7970	0.1
	(0.0316)	(0.4024)	
	0.1890	0.4420	0.25
	(0.0294)	(0.4969)	
	0.1407	0.2890	0.5
	(0.0265)	(0.4535)	
	0.1220	0.2150	0.75
	(0.0264)	(0.4110)	
	0.1123	0.1870	1
	(0.0253)	(0.3901)	

S in the 23andMe data. Replication exercises were conducted using all SNPs with a P value less than or equal to 1, 0.0 standard deviation (in parentheses) (Panel A.1.iii). In Panel A.1.i and Panel A.1.iii, the actual and expected replication records where statistical power exceeds 80% are bolded.

Panel A but shows the actual and simulated replication record for the replication of the 23andMe and me dominance G tested SNPs will have concordant signs in the discovery and replication cohorts; test (ii) (in Panels A.2.i and B.2.i) is a bir

Panel B: 23andMe->UKB replication		
SNPs with P value ≤ 1 in the 23andMe GWAS ($M = 164,761$)	SNPs with P value ≤ 0.01 in the 23andMe GWAS ($M = 8,354$)	SNPs with P value $\leq 1e-4$ in the 23andMe GWAS ($M = 110$)
Panel B.1: 23andMe->UKB replication: test (i) (the sign test)		
Panel B.1.i: Actual replication record		
0.5019 $P = 0.059$	0.4937 $P = 0.87$	0.5000 $P = 0.46$
Panel B.1.ii: Statistical power of the test as a function of the assumed value of omega		
5.8%	8.1%	15.8%
11.6%	40.3%	94.3%
75.5%	100.0%	99.6%
93.9%	98.4%	40.0%
89.2%	83.4%	19.5%
87.7%	68.8%	12.1%
91.5%	68.3%	11.4%
90.1%	60.4%	9.3%
Panel B.1.iii: Expected replication record as a function of the assumed value of omega		
0.5001 (0.0013)	0.5013 (0.0055)	0.5300 (0.0478)
0.5006 (0.0012)	0.5079 (0.0056)	0.6491 (0.0452)
0.5028 (0.0012)	0.5297 (0.0053)	0.6978 (0.0414)
0.5038 (0.0012)	0.5202 (0.0054)	0.5650 (0.0445)
0.5037 (0.0013)	0.5144 (0.0055)	0.5353 (0.0467)
0.5036 (0.0013)	0.5117 (0.0054)	0.5226 (0.0459)
0.5037 (0.0012)	0.5114 (0.0055)	0.5222 (0.0458)
0.5036 (0.0012)	0.5103 (0.0056)	0.5158 (0.0477)
Panel B.2: 23andMe->UKB replication: test (ii)		
Panel B.2.i: Actual replication record		
0.0503 $P = 0.27$	0.0508 $P = 0.36$	0.1091 $P = 0.003$
Panel B.2.ii: Statistical power of the test as a function of the assumed value of omega		
7.0%	9.2%	58.1%
19.4%	85.4%	100.0%
88.7%	100.0%	100.0%
83.5%	93.0%	50.5%
76.8%	63.2%	22.9%
70.8%	47.1%	17.0%

72.3%	42.5%	15.9%
68.0%	37.4%	14.7%
Panel B.2.iii: Expected replication record as a function of the assumed value of omega		
0.0501 (0.0005)	0.0509 (0.0023)	0.0838 (0.0252)
0.0504 (0.0005)	0.0564 (0.0024)	0.1915 (0.0362)
0.0516 (0.0006)	0.0688 (0.0027)	0.2030 (0.0365)
0.0514 (0.0006)	0.0579 (0.0026)	0.0786 (0.0265)
0.0513 (0.0005)	0.0547 (0.0025)	0.0613 (0.0233)
0.0512 (0.0006)	0.0537 (0.0025)	0.0567 (0.0215)
0.0512 (0.0005)	0.0535 (0.0025)	0.0565 (0.0220)
0.0511 (0.0005)	0.0532 (0.0024)	0.0554 (0.0214)

1, 10^{-4} , and 10^{-6} in the UKB dominance GWAS. Panel A.1 shows the actual replication record on test (i) (the sign test) and test (ii) (the binomial test). The expected replication records are expressed as the fraction of SNPs that pass the test; in Panel A.1.ii and Panel A.1.iii, statistical power and the expected replication record are expressed as the fraction of SNPs that pass the test.

iWAS in the UKB data.

Binomial test of the null hypothesis that a fraction 0.05 of the tested SNPs will have concordant signs in the discovery and replication.

SNPs with P value $\leq 1e-6$
in the 23andMe GWAS
($M = 3$)

1.0000
 $P = 0.00$

50.2%
83.8%
74.6%
21.4%
16.4%
15.0%
12.5%
15.4%

0.8020
(0.2225)
0.9420
(0.1366)
0.9083
(0.1645)
0.6083
(0.2759)
0.5507
(0.2871)
0.5293
(0.2885)
0.5203
(0.2803)
0.5367
(0.2915)

0.3333
 $P = 0.007$

78.0%
90.3%
79.3%
23.7%
21.0%
18.6%

17.0%
16.0%

0.3790
(0.2685)
0.5287
(0.2893)
0.4147
(0.2839)
0.0880
(0.1675)
0.0727
(0.1440)
0.0660
(0.1426)
0.0600
(0.1365)
0.0543
(0.1259)

(Panel A.1.i); the statistical power of
pected replication record were

l replications cohorts and will have P

Supplementary Table 20. Estimates of inbreeding depression (*ID*) using LD score regression (*LDSCdom*) and summary

	Block Jackknife			Intercept	Block Jackknife	
	Estimate of <i>ID</i>	S.E.	<i>P</i> value		S.E.	<i>P</i> value
<u><i>UK Biobank:</i></u>						
1KG LD scores	-2.105	0.635	0.001	-0.024	0.005	3.69E-07
UKB LD scores	-1.708	0.592	0.004	-0.025	0.003	3.14E-18
<u><i>23andMe:</i></u>						
1KG LD scores	-0.257	0.223	0.25	-0.045	0.004	1.36E-27
UKB LD scores	-0.242	0.216	0.262	-0.048	0.003	1.74E-43
<u><i>Meta-analysis of UKB and 23andMe estimates:</i></u>						
1KG LD scores	-0.443	0.213	0.038	-0.052	0.005	1.27E-29
UKB LD scores	-0.349	0.205	0.088	-0.056	0.004	1.01E-55

Notes: LDSCdom estimates were obtained using weighted least squares based on weights inversely proportional to LD scores. Standard errors (S.E.) of LDSC estimates were obtained using a block-jackknife procedure based on 289 blocks defined by ~10 Mb-long genomic segments. LD scores were calculated in participants from the 1,000 Genomes Project (1KG) or UK Biobank (UKB). Meta-analysis was performed using inverse-variance weighted meta-analysis. *P* values are based on a two-sided *Z* test.

7 statistics from dominance GWAS

Supplementary Table 21. Predictive power of *EduYears* Polygenic Index in HRS and Add Hea

Health and Retirement Study (HRS)				Nation
	N	LDpred	C+T $P < 5e-8$	N
AFR	2507	1.32% (0.590% to 2.227%)	0.72% (0.227% to 1.414%)	1716
EUR	10843	12.0% (10,796% to 12,892%)	7.0% (6,054% to 7,873%)	5653
Relative accuracy		11.04% (3.780% to 18.298%)	10.27% (1.411% to 19.128%)	

Notes: All analyses include the baseline control variables: a full set of dummy variables for year of sex and year of birth, and the first 10 ancestry-specific principal components (PCs) of the variance. R^2 presented in parentheses were bootstrapped with 1,000 repetitions each. The 95% CIs for the relative accuracy were constructed with using HapMap3 SNPs and a fraction of causal SNPs equal to 1. "C+T" is a threshold of 0.1 and a P value threshold of $5e-8$ (P values are constructed using a two-sided Z test). African-genetic-ancestry sample to the prediction accuracy in the European-genetic-ancestry sample.

With African-genetic-ancestry and European-genetic-ancestry samples

Final Longitudinal Study of Adolescent to Adult Health (Add Health)

LDpred	C+T $P < 5e-8$
2.31%	1.21%
(1.102% to 3.740%)	(0.437% to 2.418%)
14.99%	8.95%
(13.330% to 16.516%)	(7.686% to 10.315%)
15.41%	13.52%
(5.778% to 25.043%)	(1.833% to 25.206%)

of birth, an indicator variable for sex, a full set of interactions between the genetic data. The 95% CIs for incremental relative accuracies were obtained using the delta method. LDpred PGIs were made with a clumping r^2 threshold. C+T PGIs were made with a clumping r^2 threshold. "Relative accuracy" is the ratio of the prediction accuracy in the

Supplementary Table 22. Discovery GWAS summary statistics used to construct polygenic

Phenotype of discovery GWAS summary statistics	Target disease phenotypes in UK Biobank
<u>Cardiometaabolic diseases:</u>	
Systolic blood pressure	Essential (primary) hypertension
Coronary artery disease	Ischaemic heart disease Myocardial infarction
Low-density lipoprotein cholesterol	Pure hypercholesterolaemia
Type 2 diabetes	Type 2 diabetes
<u>Lung diseases:</u>	
Asthma	Asthma
<u>Musculoskeletal diseases:</u>	
Femoral neck bone mineral density	Osteoporosis
Rheumatoid arthritis	Rheumatoid arthritis
<u>Neurological diseases:</u>	
Migraine	Migraine
<u>Psychiatric disorders:</u>	
Major depression	Major depression

ic indices of 9 diseases for UK Biobank participants, for the prediction of disease risk from PGI

Source for the summary statistics used to construct the PGI	
Reference for the paper reporting the GWAS	Website
Wain, L. V <i>et al.</i> Novel Blood Pressure Locus and Gene Discovery Using Genome-Wide Association Study and Expression Data Sets From Blood and the Kidney. <i>Hypertension</i> 70 , e4–e19 (2017).	-
Nikpay, M. <i>et al.</i> A comprehensive 1000 Genomes–based genome-wide association meta-analysis of coronary artery disease. <i>Nat Genet.</i> 47 , 1121–1130 (2015).	Downloaded from http://cardiogramplusc4d.org/data-downloads
Willer, C. J. <i>et al.</i> Discovery and refinement of loci associated with lipid levels. <i>Nat Genet.</i> 45 , 1274–1283 (2013).	Downloaded from http://csg.sph.umich.edu//abecasis/public/lipids2013/
Morris, A. P. <i>et al.</i> Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. <i>Nat Genet.</i> 44 , 981–990 (2012).	Downloaded from http://diagram-consortium.org/downloads.html
Demenaïs, F. <i>et al.</i> Multiancestry association study identifies new asthma risk loci that colocalize with immune-cell enhancer marks. <i>Nat Genet.</i> 50 , 42–53 (2018).	Downloaded from ftp://ftp.ebi.ac.uk/pub/databases/gwas/summary_statistics/DemenaïsF_29273806_GCST005212
Zheng, H. <i>et al.</i> Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> 526 , 112–117 (2015).	Downloaded from http://www.gefos.org/?q=content/data-release-2015
Okada, Y. <i>et al.</i> Genetics of rheumatoid arthritis contributes to biology and drug discovery. <i>Nature</i> 506 , 376–381 (2014).	Downloaded from http://plaza.umin.ac.jp/~yokada/datasource/software.htm
Gormley, P. <i>et al.</i> Meta-analysis of 375,000 individuals identifies 38 susceptibility loci for migraine. <i>Nat Genet.</i> 48 , 856–866 (2016).	Downloaded from http://www.headachegenetics.org/content/datasets-and-cohorts
Wray, N. R. <i>et al.</i> Genome-wide association analyses identify 44 risk variants and refine the genetic architecture of major depression. <i>Nat Genet.</i> 50 , 668–681 (2018).	-

File name	Note
SBP_summary_meta_ALL_June2015_FILTERED_NEFF60MAF1pc_rsid.RData	-
cad.additive.Oct2015.pub.zip	-
Mc_LDL.txt.gz	-
Stage 1 GWAS: Summary Statistics	-
TAGC_meta-analyses_results_for_asthma_risk.zip	Summary statistics from random model of European ancestry were used
fn2stu.MAF0_.005.pos_.out_.gz	-
RA_GWASmeta_European_v2.txt.gz	-
any_mig.gwama_.out_.isq75.nstud12.cleanean_.p1e-5_3.txt	Only SNPs with association P value < 1.0E-5 are provided
MDD_FullMeta_noUKBB_PGC_2017.gz	The GWAS are based on cohort excluding UK Biobank cohort

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Supplementary Table 23. Definition of the disease variables, for the prediction of disease risk from PGI

Original disease name	Description	Data field [†]
<i>Cardiometabolic diseases:</i>		
Essential (primary) hypertension	UKB participants with primary care, hospital admission or death registry record that could be mapped to I10 (Essential (primary) hypertension) were assigned as cases. For the remaining participants, individuals with other hypertensive diseases (I11-I15, hypertensive heart disease, hypertensive renal disease or both and secondary hypertension) were first removed and the rest participants were assigned as controls.	131287
Ischaemic heart disease	UKB participants with primary care, hospital admission or death registry record that could be mapped to I20-I25 (angina pectoris, acute and subsequent myocardial infarction, certain current complications after acute myocardial infarction, other acute ischaemic heart disease and chronic ischaemic heart disease) were assigned as cases. The remaining individuals were assigned as controls.	131297, 131299, 131301, 131303, 131305, 131307
Myocardial infarction	UKB participants with primary care, hospital admission or death registry record that could be mapped to I21-I23 (acute and subsequent myocardial infarction, certain current complications after acute myocardial infarction and participants with hospital admission record I252 (Old myocardial infarction) were assigned as cases. For the remaining participants, individuals with diagnoses record belongings to anginal pectoris (I20), other acute ischaemic heart diseases (I24) and chronic ischaemic heart diseases (I25) were first removed and the rest participants were assigned as controls.	131299, 131301, 131303 41270
Pure hypercholesterolaemia	UKB participants with hospital admission record E780 (pure hypercholesterolaemia) were assigned as cases. For the remaining participants, individuals with diagnoses record that could be mapped to E78 (disorders of lipoprotein metabolism and other lipidaemias) were first removed and the rest were assigned as controls.	41270
Type 2 diabetes	UKB participants with primary care, hospital admission or death registry record that could be mapped to E11 (non-insulin-dependent diabetes mellitus) were assigned as cases. For the remaining participants, individuals with E10, E12-E14 (insulin-dependent diabetes mellitus, malnutrition-related diabetes mellitus, other specified diabetes mellitus and unspecified diabetes mellitus) were removed and the rest participants were assigned as controls.	130709
<i>Lung diseases:</i>		

Asthma	UKB participants with primary care, hospital admission or death registry record that could be mapped to J45 and J46 (asthma and status asthmaticus) were assigned as cases. The remaining individuals were assigned as controls.	131495, 131497
<i>Musculoskeletal diseases:</i>		
Osteoporosis	UKB participants with primary care, hospital admission or death registry records that could be mapped to ICD10 code M80-M82 (osteoporosis with or without pathological fracture and osteoporosis in diseases classified elsewhere) were assigned as cases. For the remaining participants, individuals with diagnoses record belonging to other bone density and structure disorders (M83-M85) were first removed and the rest participants were assigned as controls.	131963, 131965, 131967
Rheumatoid arthritis	UKB participants with primary care, hospital admission or death registry records that could be mapped to ICD10 code M05 and M06 (seropositive rheumatoid arthritis and other rheumatoid arthritis) were assigned as cases. For the remaining participants, individuals with diagnoses record belonging to inflammatory polyarthropathies (M07-M14) were first removed and the rest participants were assigned as controls.	131849, 131851
<i>Neurological diseases:</i>		
Migraine	UKB participants with primary care, hospital admission or death registry records that could be mapped to ICD10 code G43 (migraine) were assigned as cases. For the remaining participants, individuals with diagnoses record belonging to other headache syndromes (G44) were first removed and the rest participants were assigned as controls.	131053
<i>Psychiatric disorders:</i>		
Major depression	UKB participants with primary care, hospital admission or death registry record that could be mapped to F32 and F33 (depressive episode and recurrent depressive episode) were assigned as cases. For the remaining participants, individuals with diagnoses record belonging to other mood (affective) disorders (F30, F31, F34, F38-F39) were first removed and the rest participants were assigned as controls.	130895, 130897

Notes: This table provides details on the definition and coding of the disease phenotypes used for the prediction of disease risk fr

[†] Numbers (separated with comma if applicable) in the 'Data field' columns represent the corresponding UK Biobank (UKB) data

^{*} Numbers in the 'Data coding' columns represent the corresponding UKB data coding system for the UKB data fields listed in the

[§] Numbers separated with comma in the column represent the coding of the corresponding coding system. For each UKB data fi coding values for data coding 2171 are: 20 (death register only); 21 (death register and other source(s)); 30 (primary care only) system is used for ICD10 (WHO International Classification of Diseases) and the coding values listed in the table are: E780 (Pure

[#] For each data field in the 'Case definition' section of the table, UKB participants whose data coding took a value listed in the 'D whose data coding took a value listed in the 'Data coding value excluded' column in the 'Control screening' section were removed, ;

Case definition				
Data coding [‡]	Data coding value included [§]	Data coding value excluded [§]	Case definition justification from published study (PMID No.)	Note
2171	20, 21, 30, 31, 40, 41, 51	50	28122885	-
2171	20, 21, 30, 31, 40, 41, 51	50	27006480	-
2171	20, 21, 30, 31, 40, 41, 51	50	30404896	Individuals with diagnoses record of I241 (Dressler's syndrome) were removed at control screening step due to lack of specificity compared with I21-I23 and I252.
19	I252	-		
19	E780	-	31553307	-
2171	20, 21, 30, 31, 40, 41, 51	50	32541925	-

2171	20, 21, 30, 31, 40, 41, 51	50	32792435	-
2171	20, 21, 30, 31, 40, 41, 51	50	33317231	-
2171	20, 21, 30, 31, 40, 41, 51	50	33059732	-
2171	20, 21, 30, 31, 40, 41, 51	50	30974953	-
2171	20, 21, 30, 31, 40, 41, 51	50	25322690	Individuals with diagnoses record of F34 (persistent mood disorders), F38 (other mood disorders) and F39 (unspecified mood disorders) were removed at control screening step due to lack of specificity compared with F32 and F33 rather than assigned as cases.

om PGI.

fields.

nearest 'Data field' column. Note that different UKB data fields may have adopted the same data coding system when the data field, UKB participants were assigned a value from the adopted data coding system according to their recorded information for: 31 (primary care and other source(s)); 40 (hospital admissions data only); 41 (hospital admission data and other source(s)); I251 (Atherosclerotic heart disease); and I252 (Old myocardial infarction).

data coding value included' column were classified as cases, while those whose data coding took a value listed in the 'Data code' and the remaining participants were assigned as control status. The data for data fields in this table were downloaded in Dec 20

Control screening			
Data field [†]	Data coding [‡]	Data coding value excluded [§]	Number of case/control [#]
131289, 131291, 131293, 131295	2171	20, 21, 30, 31, 40, 41, 50, 51	108,371/332,364
-	-	-	39,852/399,472
131297, 131305, 131307	2171	20, 21, 30, 31, 40, 41, 50, 51	15,986/399,472
130815	2171	20, 21, 30, 31, 40, 41, 50, 51	42,475/279,615
130707, 130711, 130713, 130715	2171	20, 21, 30, 31, 40, 41, 50, 51	25,880/410,247

-	-	-	37,790/382,895
131969, 131971, 131973	2171	20, 21, 30, 31, 40, 41, 50, 51	12,388/414,970
131853, 131855, 131859, 131861, 131863, 131865, 131867	2171	20, 21, 30, 31, 40, 41, 50, 51	6,434/394,453
131055	2171	20, 21, 30, 31, 40, 41, 50, 51	10,219/416,379
130891, 130893, 130899, 130901, 130903	2171	20, 21, 30, 31, 40, 41, 50, 51	29,904/393,240

1 fields are similar.

or the corresponding data field. There are two data coding system: 2171 and 19. The); 50 (self-report only); and 51 (self-report and other source(s)). The data coding 19

ing value excluded' column were removed. For the remaining participants, individuals 019 from UK Biobank after application approval.

Supplementary Table 24. Results from bivariate LD score regression analysis between discovery GWAS summary statistics

Trait of discovery GWAS summary statistics	Disease of target GWAS summary statistics in UK Biobank [*]	Result	
		r_g	S.E.(r_g)
<u>Cardiometabolic diseases:</u>			
Systolic blood pressure	Essential (primary) hypertension	0.79	0.022
Coronary artery disease	Ischaemic heart disease	0.92	0.029
Low-density lipoprotein cholesterol	Pure hypercholesterolaemia	0.51	0.065
Type 2 diabetes	Type 2 diabetes	0.98	0.046
<u>Lung diseases:</u>			
Asthma	Asthma	0.85	0.042
<u>Musculoskeletal diseases:</u>			
Femoral neck bone mineral density	Osteoporosis	-0.71	0.097
Rheumatoid arthritis	Rheumatoid arthritis	0.76	0.078
<u>Psychiatric disorders:</u>			
Major depression	Major depression	0.76	0.031

Notes : LD score regression analysis was not conducted for migraine because GWAS summary statistics were only available for

^{*} GWAS of the 8 UKB diseases phenotypes were conducted using BOLT-LMM, fitting sex, age and 20 PCs as covariates. GWAS the UK Biobank for each disease are shown in the last column of Supplementary Table 23.

[†] Bivariate LD score intercept and standard error. In bivariate LDSC, the sample overlap impacts the bivariate LDSC intercept, v the bivariate LDSC analysis.

^{*} Observed scale SNP-based heritability, corresponding standard error, single-trait LD score regression intercept, and correspond

tics used to construct the disease PGI and corresponding UKB GWAS summary statistics, for the prediction of disease risk

s from bivariate LD score regression analysis				statistics		
Z	P	Bivariate LD score intercept [†]	Bivariate LD score intercept S.E. [†]	LDSC h^2 [‡]	LDSC h^2 S.E. [‡]	LD score intercept [‡]
36.06	9.3E-285	0.03	0.011	0.09	0.004	1.08
31.90	2.3E-223	0.02	0.008	0.04	0.003	1.03
7.88	3.3E-15	0.05	0.036	0.05	0.005	1.06
21.20	9.5E-100	0.02	0.008	0.05	0.003	1.07
20.32	8.5E-92	0.01	0.010	0.05	0.004	1.02
-7.35	1.9E-13	-0.01	0.007	0.01	0.002	1.03
9.82	9.5E-23	0.01	0.007	0.01	0.002	1.01
24.25	6.4E-130	0.01	0.006	0.02	0.002	1.01

SNPs with association P value $< 10^{-5}$. Z scores were constructed using a two sided test and the P values are based on the Z -score of myocardial infarction was not conducted because this phenotype is a subset of ischaemic heart disease. The numbers of cases

whose expected value is the phenotypic correlation multiplied by the proportion of shared individuals between two GWAS datasets

ing standard error, for UKB GWAS summary statistics.

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Supplementary Table 25. Comparison of COJO and clumping lead SNP definitions - Incremental R^2

		HRS
	Controls	6.64%
COJO PGI (COJO effect sizes)	Controls + C+T PGI ($P < 5e-8$)	0.74%
	Controls + C+T PGI ($P < 4.61e-9$)	1.07%
	Controls	6.84%
COJO PGI (GWAS effect sizes)	Controls + C+T PGI ($P < 5e-8$)	0.69%
	Controls + C+T PGI ($P < 4.61e-9$)	1.03%
	Controls	6.98%
C+T PGI ($P < 5e-8$)	Controls + COJO PGI (COJO effect sizes)	1.08%
	Controls + COJO PGI (GWAS effect sizes)	0.83%
	Controls	6.31%
C+T PGI ($P < 4.61e-9$)	Controls + COJO PGI (COJO effect sizes)	0.74%
	Controls + COJO PGI (GWAS effect sizes)	0.50%
COJO PGI (COJO effect sizes) + C+T PGI ($P < 5e-8$)	Controls	7.72%
COJO PGI - GWAS effect sizes + C+T PGI ($P < 5e-8$)	Controls	7.67%
COJO PGI (COJO effect sizes) + C+T PGI ($P < 4.61e-9$)	Controls	7.38%
COJO PGI - GWAS effect sizes + C+T PGI ($P < 4.61e-9$)	Controls	7.34%

Notes: Columns C and D report the the difference in R^2 when the PGI(s) in Column A is/are added to a regression of $Education$ covariates in Column B. "Controls" are a full set of dummy variables for year of birth, an indicator variable for sex, interactions between sex and year of birth, and the first 10 principal components (PCs) of the variance-covariance matrix of the data. COJO PGIs were made using the 2,942 lead SNPs ($P < 5e-8$) obtained by applying the COJO algorithm to the data. Supplementary Note section 2.2.7 to a meta-analysis that excludes HRS, P values are constructed using a two sided Z-test and WLS. C+T PGIs were made using the 3,878 and 2,942 lead SNPs ($P < 5e-8$ and $P < 4.61e-9$, respectively) obtained by clumping algorithm described in Supplementary Note section 2.2.6 to the same meta-analysis. For the first COJO PGI in column C SNP weights were set to the posterior effect sizes estimated by COJO. For the second COJO PGI and the C+T PGIs, we

Add Health

9.99%

1.66%

2.20%

9.81%

1.35%

1.86%

9.18%

0.85%

0.72%

8.35%

0.55%

0.41%

10.84%

10.53%

10.55%

10.21%

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described in
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ights were

Supplementary Table 26. Comparison of COJO and clumping lead SNP definitions - Regression coefficients

	HRS (<i>N</i> =10,843)				Add Health (<i>N</i> =5,653)		
	(1)	(2)	(3)	(4)	(1)	(2)	(3)
COJO PGI (COJO effect sizes)	0.440 (0.046)	0.520 (0.045)			0.652 (0.062)	0.732 (0.060)	
COJO PGI (GWAS effect sizes)			0.457 (0.049)	0.552 (0.048)			0.630 (0.066)
C+T PGI (<i>P</i> <5e-8)	0.531 (0.046)		0.502 (0.049)		0.465 (0.062)		0.461 (0.066)
C+T PGI (<i>P</i> <4.61e-9)		0.431 (0.045)		0.385 (0.049)		0.367 (0.060)	

Notes: Each column reports estimated regression coefficients, with standard errors in parentheses. All regressions include the control variables: a full set of dummy variables for year of birth, an indicator variable for sex, a full set of interactions between sex and year of birth, and the first 10 principal components (PCs) of the variance-covariance matrix of the genetic data (coefficients not reported). PGI sizes were made using the 2,942 lead SNPs (*P*<5e-8) obtained by applying the COJO algorithm described in Supplementary Note 2.2.7 to a meta-analysis that excludes HRS, Add Health and WLS. C+T PGIs were made using the 3,878 and 2,942 lead SNPs (*P*<5e-8 and *P*<4.61e-9, respectively) obtained by applying the clumping algorithm described in Supplementary Note section 2.2.6 to the meta-analysis. For the first COJO PGI in the table, the SNP weights were set to the posterior effect sizes estimated by COJO. For the second COJO PGI and the C+T PGIs, weights were set to the coefficient estimates from the meta-analysis. *P* values are constructed from two-sided *Z* tests.

(4)

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(0.065)

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(0.065)

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Supplementary Table 27. Association results for the 57 X chromosome SNPs that reached genome-wide significant

SNP	BP	Effect allele	Other allele	Effect allele frequency	Effect Size	S.E.	<i>P value</i>
rs3126259	55,574,773	T	G	0.6969	0.0131	0.0010	7.63E-39
rs6624382	68,354,952	T	C	0.7983	0.0126	0.0011	3.42E-28
rs5927231	34,156,266	T	G	0.529	-0.0089	0.0009	4.99E-22
rs62599022	131,890,506	T	C	0.5052	-0.0086	0.0009	1.17E-20
rs6647664	74,435,261	T	C	0.0628	0.0158	0.0019	1.10E-16
rs2361480	51,535,795	C	G	0.8661	0.0112	0.0014	1.12E-16
rs2156987	21,757,216	C	G	0.5245	-0.0074	0.0009	1.35E-15
rs7058366	130,437,766	A	G	0.8781	0.0112	0.0014	1.47E-15
rs6621822	103,659,647	A	G	0.4683	0.0073	0.0009	1.88E-15
rs5922073	83,914,608	T	C	0.6399	-0.0076	0.0010	2.37E-15
rs7886206	12,240,100	T	C	0.4623	0.0072	0.0009	5.43E-15
rs6616712	80,149,395	A	T	0.3398	0.0076	0.0010	5.76E-15
rs5986717	25,040,118	A	G	0.9204	0.0132	0.0017	7.52E-15
rs6638417	53,709,964	A	G	0.4719	0.0069	0.0009	1.14E-13
rs5936117	7,835,240	T	C	0.7357	-0.0078	0.0010	1.15E-13
rs6608245	120,587,609	T	C	0.3634	0.0071	0.0010	1.22E-13
rs5905450	45,200,978	A	C	0.4758	-0.0066	0.0009	7.32E-13
rs12841490	83,489,753	T	G	0.159	0.0090	0.0013	1.15E-12
rs5970304	151,594,821	T	C	0.6351	0.0067	0.0010	1.84E-12
rs77036718	133,287,319	A	G	0.6709	-0.0068	0.0010	5.81E-12
rs5926235	23,173,719	T	C	0.2473	-0.0073	0.0011	1.01E-11
rs6615900	96,490,758	A	T	0.625	-0.0064	0.0010	1.60E-11
rs3109856	35,080,078	T	C	0.2951	-0.0068	0.0010	2.33E-11
rs73203336	21,489,459	T	C	0.0603	0.0129	0.0019	2.50E-11
rs2255067	41,599,015	T	G	0.7673	-0.0072	0.0011	4.33E-11
rs5936660	68,377,937	A	G	0.3514	0.0063	0.0010	6.16E-11
rs1234509	28,259,910	A	G	0.1713	0.0080	0.0012	6.62E-11
rs5951278	100,895,499	A	G	0.5081	0.0060	0.0009	9.23E-11
rs516829	137,994,951	T	C	0.6962	0.0064	0.0010	1.44E-10
rs2238944	18,780,943	C	G	0.5688	0.0059	0.0009	1.86E-10
rs7060959	123,017,252	A	T	0.1891	-0.0074	0.0012	3.35E-10
rs11093451	73,656,415	T	C	0.7598	-0.0068	0.0011	3.84E-10
rs5917801	39,251,030	T	G	0.5441	0.0058	0.0009	4.31E-10
rs5943820	25,953,098	A	G	0.5075	0.0056	0.0009	9.51E-10
rs1592166	93,332,464	A	C	0.7477	0.0064	0.0011	1.28E-09
rs5933105	131,301,492	A	C	0.1048	0.0091	0.0015	1.53E-09
rs5936664	68,406,830	T	C	0.2963	-0.0060	0.0010	2.53E-09
rs1613059	117,450,519	T	C	0.2124	-0.0066	0.0011	3.76E-09
rs5944014	25,233,983	C	G	0.3597	-0.0056	0.0010	4.16E-09
rs12008840	42,597,501	C	G	0.8541	0.0076	0.0013	4.96E-09
rs3005633	34,000,906	A	T	0.6107	0.0055	0.0009	5.74E-09
rs142231508	21,927,329	A	G	0.0427	0.0132	0.0023	6.27E-09
rs2366511	137,048,549	T	G	0.2741	-0.0060	0.0010	8.00E-09
rs5972486	29,633,695	A	G	0.6199	0.0055	0.0009	9.25E-09
rs12400475	41,108,361	C	G	0.3258	0.0056	0.0010	9.76E-09
rs241088	147,805,128	T	C	0.8294	0.0070	0.0012	1.15E-08
rs5930403	129,490,527	A	G	0.4472	-0.0053	0.0009	1.30E-08

rs137878609	135,358,203	T	C	0.082	-0.0095	0.0017	1.36E-08
rs146852038	129,118,809	A	G	0.1388	0.0075	0.0013	1.62E-08
rs12557277	50,188,292	A	G	0.3118	0.0056	0.0010	2.32E-08
rs1361627	121,995,717	A	G	0.7372	0.0058	0.0010	3.37E-08
rs7882480	119,389,966	T	C	0.708	0.0056	0.0010	3.48E-08
rs941202	11,893,394	A	G	0.6135	0.0052	0.0009	3.95E-08
rs7066035	82,782,466	T	C	0.3534	-0.0053	0.0010	3.99E-08
rs55850908	53,081,414	A	G	0.188	0.0065	0.0012	4.25E-08
rs2497525	113,995,824	T	C	0.8473	0.0070	0.0013	4.52E-08
rs209994	129,227,453	A	C	0.5763	0.0051	0.0009	4.91E-08

Notes: Clumping of GWAS results was performed as described in the Supplementary Section 3.4. SNPs are ordered by human genome build 37 (hg19). Standard errors (S.E.) and *P* values are derived from two tailed *Z* tests that have been from the main autosomal analysis. The analysis is based on 211,581 SNPs. "UKB DAF" is the effect allele frequency dif

ice in the meta-analysis of 23andMe and UKB

Hetero I^2	Hetero P	N	UKB DAF
89.6	1.90E-03	2,713,033	0.0048
10.3	2.91E-01	2,713,033	-0.0042
58.5	1.21E-01	2,713,033	-0.0015
0	4.54E-01	2,713,033	0.0020
5.9	3.03E-01	2,713,033	0.0007
61.1	1.09E-01	2,713,033	-0.0015
69.9	6.83E-02	2,713,033	-0.0025
0	7.18E-01	2,713,033	0.0000
0	6.61E-01	2,713,033	0.0001
0	4.39E-01	2,713,033	-0.0016
54.1	1.40E-01	2,713,033	-0.0028
0	5.20E-01	2,713,033	-0.0017
3.4	3.09E-01	2,713,033	0.0002
65.4	8.91E-02	2,713,033	0.0020
0	9.75E-01	2,713,033	-0.0007
0	4.30E-01	2,713,033	-0.0015
0	3.58E-01	2,713,033	0.0031
0	4.49E-01	2,713,033	-0.0010
19.7	2.65E-01	2,713,033	-0.0033
55.3	1.35E-01	2,713,033	-0.0009
73.5	5.23E-02	2,713,033	0.0008
84.2	1.19E-02	2,713,033	0.0007
0	6.35E-01	2,713,033	0.0013
0	6.24E-01	2,713,033	-0.0001
0	5.90E-01	2,713,033	-0.0017
0	5.60E-01	2,713,033	0.0041
0	8.29E-01	2,713,033	0.0005
4.3	3.07E-01	2,713,033	0.0023
49.9	1.58E-01	2,713,033	-0.0031
0	4.89E-01	2,713,033	0.0012
74.5	4.78E-02	2,713,033	-0.0006
0	8.77E-01	2,713,033	0.0028
62.3	1.03E-01	2,713,033	0.0010
33.8	2.19E-01	2,713,033	-0.0012
0	3.45E-01	2,713,033	-0.0010
0	3.24E-01	2,713,033	-0.0019
0	7.43E-01	2,713,033	0.0047
3.7	3.08E-01	2,713,033	0.0002
21.9	2.58E-01	2,713,033	0.0012
66.2	8.54E-02	2,713,033	0.0002
0	8.59E-01	2,713,033	0.0014
0	7.07E-01	2,713,033	-0.0010
0	7.83E-01	2,713,033	-0.0018
0	9.79E-01	2,713,033	0.0011
16.5	2.74E-01	2,713,033	0.0009
49.3	1.60E-01	2,713,033	0.0014
0	4.54E-01	2,713,033	0.0011

91.2	7.44E-04	2,713,033	0.0010
25.3	2.47E-01	1,069,727	-0.0009
0	3.75E-01	2,713,033	0.0007
0	8.86E-01	2,713,033	0.0012
0	9.17E-01	2,713,033	-0.0011
45	1.78E-01	2,713,033	0.0007
0	3.76E-01	2,713,033	-0.0024
0	6.28E-01	1,991,826	-0.0013
0	8.75E-01	1,943,172	-0.0009
0	7.91E-01	2,713,033	-0.0014

r *P* value. Base pair (BP) positions are reported for
adjusted by an estimated LDSC intercept of 1.663
ference between males and females in UKB.

Supplementary Table 28. Average Test Statistics By Chromosome

Chr	Mean N	M_{eff}	M	Mean χ^2	#Lead SNPs	SNP h^2	Chr Length	λ_{GC}
1	2,695,250	5,009	550,754	8.382	710	1.37%	248.47	4.913
2	2,700,440	5,116	604,236	10.158	1011	1.73%	243.03	6.138
3	2,701,060	3,927	514,173	9.303	688	1.21%	197.78	5.955
4	2,701,490	3,954	525,677	7.665	539	0.98%	190.85	5.045
5	2,701,490	3,530	467,600	7.922	588	0.90%	180.69	4.992
6	2,699,800	2,683	478,754	8.668	596	0.76%	170.73	5.432
7	2,696,430	3,436	420,051	7.781	498	0.86%	159.09	4.841
8	2,700,320	2,851	402,459	7.241	438	0.66%	146.14	4.966
9	2,698,100	3,048	308,977	7.682	419	0.75%	141.02	4.972
10	2,697,520	2,936	366,872	7.887	447	0.75%	135.34	5.045
11	2,691,470	1,525	359,038	7.309	434	0.36%	134.75	4.731
12	2,700,330	2,481	344,632	7.424	388	0.59%	133.65	4.622
13	2,699,450	2,294	268,100	8.178	313	0.61%	95.99	5.404
14	2,697,580	1,988	235,616	7.783	294	0.50%	88.05	4.873
15	2,691,890	1,991	201,486	6.892	240	0.44%	82.25	4.464
16	2,694,290	2,555	219,230	8.541	353	0.72%	90.07	5.322
17	2,683,910	1,570	185,948	13.073	233	0.71%	81.10	4.653
18	2,697,900	2,140	206,424	9.186	305	0.65%	77.96	4.660
19	2,687,330	1,453	154,761	5.091	151	0.22%	58.83	3.935
20	2,693,510	1,847	160,716	6.928	189	0.41%	62.86	4.526
21	2,689,190	1,155	99,104	5.694	89	0.20%	33.51	3.824
22	2,674,460	1,148	95,332	7.258	128	0.27%	34.17	4.457
X	2,647,880	1,309	256,643	8.736	173	0.38%	152.22	5.363

Notes: All calculations are based on meta-analysis of 23andMe and UK Biobank. Mean N : average sample size for SNPs that passed sample-size filters. M_{eff} : number of effective loci. M : number of SNPs used to estimate M_{eff} . Mean χ^2 : average test statistic for SNPs with MAF > 1%. #Lead SNPs: number of approximately independent SNPs reaching P value < 5×10^{-8} . SNP h^2 : per-chromosome heritability of SNPs with MAF > 1%. Chr Length: chromosomal length measured in MegaBase Pairs (calculated as the difference between the max and min BP on each chromosome among SNPs that survived all filters in the meta-analysis).

Supplementary Table 29. Predictive power of *EduYears* PGIs made using different EA GWAS

	GWAS <i>N</i>	Incremental- R^2 - Add Health	Incremental- R^2 - HRS
Rietveld et al. (2013)	117,922	2.82%	2.55%
Okbay et al. (2016) Discovery	283,761	5.97%	5.73%
Okbay et al. (2016) Combined	395,110	7.37%	6.67%
Lee et al. (2018)	1,108,439	11.03%	9.60%
Current	3,014,057	15.91%	12.14%

Supplementary Table 30. Stratified LD Score Regressions

Category	Enrichment	Enrichment - S.E.	Enrichment - 95% CI - low
<u><i>Cahoy et al, 2008 Annotations:</i></u>			
Astrocytes	1.0940	0.0444	1.0069
Neurons	1.3063	0.0422	1.2237
Oligodendrocytes	1.1032	0.0434	1.0181
<u><i>Baseline Annotations:</i></u>			
3' UTR	1.8776	0.5795	0.7418
5' UTR	2.8471	1.0398	0.8091
Astrocytes	1.0940	0.0444	1.0069
Coding	3.4541	0.5996	2.2788
Conserved (GERP NS)	1.8992	0.0470	1.8070
Conserved (Lindblad-Toh)	9.1179	0.8728	7.4073
CTCF	-0.0631	0.5749	-1.1899
DGF	1.1977	0.2442	0.7191
DHS	1.4425	0.2306	0.9906
Enhancer (Andersson)	2.8793	1.3353	0.2620
Enhancer (Hoffman)	1.8640	0.3274	1.2223
Fetal DHS	2.3895	0.3418	1.7196
H3K27ac	1.0824	0.0342	1.0153
H3K4me1	1.3980	0.0775	1.2462
H3K4me3	1.9303	0.1644	1.6082
H3K9ac	1.7968	0.1649	1.4736
HCK27ac	1.1898	0.0780	1.0368
Intron	1.2212	0.0288	1.1648
Neurons	1.3063	0.0422	1.2237
Oligodendrocytes	1.1032	0.0434	1.0181
Promoter	1.3078	0.2778	0.7633
Promoter flanking	1.8546	0.9737	-0.0538
Repressed	0.8843	0.0800	0.7275
Super enhancer (Hnisz)	1.1290	0.0452	1.0404
Super enhancer (Vehadi)	1.6059	0.1963	1.2212
Transcribed	1.1467	0.0928	0.9648
Transcription factor binding site	1.2530	0.1888	0.8829
Transcription start site	3.4956	0.7592	2.0076
Typical enhancer	1.3250	0.2321	0.8701
Weak enhancer	2.7174	0.6479	1.4475

Notes: The table displays the results of running SLDSC on baseline annotations from [1] and gene set annotations from [2]. E SLDSC on the baseline annotations jointly with one annotation from [2] added at a time.

References:

- [1] Gazal, S. et al. Linkage disequilibrium dependent architecture of human complex traits reveals action of negative selection
- [2] Cahoy, J. D. et al. A Transcriptome Database for Astrocytes, Neurons, and Oligodendrocytes: A New Resource for Unde

EA4 (this paper)

Enrichment - 95% CI - high	Prop of h^2	Prop of h^2 - S.E.	Prop of h^2 - 95% CI - low
1.1811	0.1874	0.0076	0.1725
1.3889	0.2097	0.0068	0.1965
1.1884	0.1605	0.0063	0.1481
3.0135	0.0210	0.0065	0.0083
4.8851	0.0156	0.0057	0.0044
1.1811	0.1874	0.0076	0.1725
4.6294	0.0493	0.0086	0.0325
1.9913	3.3146	0.0820	3.1538
10.8286	0.2342	0.0224	0.1903
1.0638	-0.0015	0.0137	-0.0284
1.6762	0.1629	0.0332	0.0978
1.8945	0.2398	0.0383	0.1646
5.4965	0.0125	0.0058	0.0011
2.5057	0.0783	0.0137	0.0513
3.0594	0.2006	0.0287	0.1443
1.1495	0.4211	0.0133	0.3950
1.5499	0.5923	0.0328	0.5280
2.2525	0.2568	0.0219	0.2139
2.1201	0.2253	0.0207	0.1848
1.3427	0.3198	0.0210	0.2787
1.2775	0.4732	0.0111	0.4513
1.3889	0.2097	0.0068	0.1965
1.1884	0.1605	0.0063	0.1481
1.8522	0.0401	0.0085	0.0234
3.7630	0.0154	0.0081	-0.0004
1.0411	0.4075	0.0369	0.3353
1.2176	0.1888	0.0076	0.1740
1.9906	0.0333	0.0041	0.0253
1.3287	0.3967	0.0321	0.3338
1.6231	0.1644	0.0248	0.1159
4.9837	0.0623	0.0135	0.0358
1.7799	0.0290	0.0051	0.0190
3.9873	0.0570	0.0136	0.0304

estimates of baseline annotations are from running SLDSC on all the baseline annotations jointly. Estimates of [2] ar

1. bioRxiv 82024 (2016) doi:10.1101/082024.

rstanding Brain Development and Function. J. Neurosci. 28, 264–278 (2008).

Prop of h^2 - 95% CI - high	Enrichment	Enrichment - S.E.	Enrichment - 95% CI - low
0.2023	1.0793	0.0429	0.9952
0.2230	1.3302	0.0461	1.2398
0.1728	1.0862	0.0460	0.9960
0.0337	1.4634	0.6979	0.0954
0.0268	2.0271	1.2742	-0.4703
0.2023	1.0793	0.0429	0.9952
0.0661	2.8662	0.7521	1.3920
3.4754	1.9183	0.0526	1.8152
0.2781	9.2215	1.0454	7.1726
0.0254	-0.9222	0.6553	-2.2066
0.2280	1.0462	0.3011	0.4560
0.3149	1.2763	0.2756	0.7360
0.0238	0.7008	1.5458	-2.3290
0.1052	1.9605	0.3690	1.2373
0.2568	2.4595	0.3983	1.6788
0.4472	1.1129	0.0410	1.0325
0.6567	1.3904	0.0899	1.2142
0.2996	1.9395	0.1864	1.5741
0.2659	1.7004	0.1848	1.3382
0.3609	1.1637	0.0924	0.9827
0.4950	1.2228	0.0333	1.1575
0.2230	1.3302	0.0461	1.2398
0.1728	1.0862	0.0460	0.9960
0.0568	1.1677	0.3307	0.5196
0.0313	1.8021	1.2345	-0.6175
0.4798	0.8516	0.0961	0.6632
0.2036	1.1653	0.0557	1.0561
0.0412	1.5101	0.2159	1.0870
0.4597	1.1718	0.1105	0.9553
0.2130	0.9222	0.2403	0.4512
0.0889	3.2543	0.8395	1.6089
0.0389	1.5268	0.2785	0.9810
0.0837	2.2803	0.8260	0.6612

motations are from running

EA3 (Lee et al, 2018)

Enrichment - 95% CI - high	Prop of h^2	Prop of h^2 - S.E.	Prop of h^2 - 95% CI - low
1.1634	0.1849	0.0073	0.1706
1.4206	0.2136	0.0074	0.1991
1.1764	0.1580	0.0067	0.1449
2.8313	0.0164	0.0078	0.0011
4.5244	0.0111	0.0070	-0.0026
1.1634	0.1849	0.0073	0.1706
4.3404	0.0409	0.0107	0.0199
2.0215	3.3481	0.0919	3.1680
11.2704	0.2369	0.0269	0.1842
0.3622	-0.0220	0.0156	-0.0527
1.6365	0.1423	0.0410	0.0620
1.8165	0.2121	0.0458	0.1223
3.7307	0.0030	0.0067	-0.0101
2.6837	0.0823	0.0155	0.0520
3.2402	0.2064	0.0334	0.1409
1.1933	0.4330	0.0160	0.4017
1.5667	0.5891	0.0381	0.5144
2.3049	0.2580	0.0248	0.2094
2.0627	0.2133	0.0232	0.1678
1.3447	0.3128	0.0248	0.2641
1.2881	0.4738	0.0129	0.4485
1.4206	0.2136	0.0074	0.1991
1.1764	0.1580	0.0067	0.1449
1.8158	0.0358	0.0101	0.0159
4.2216	0.0150	0.0103	-0.0051
1.0401	0.3925	0.0443	0.3057
1.2745	0.1949	0.0093	0.1766
1.9332	0.0313	0.0045	0.0225
1.3883	0.4054	0.0382	0.3305
1.3932	0.1210	0.0315	0.0592
4.8996	0.0580	0.0150	0.0287
2.0726	0.0334	0.0061	0.0215
3.8993	0.0479	0.0173	0.0139

Prop of h^2 - 95% CI - high
0.1992
0.2281
0.1711
0.0317
0.0248
0.1992
0.0620
3.5281
0.2895
0.0086
0.2226
0.3019
0.0161
0.1127
0.2719
0.4643
0.6638
0.3066
0.2587
0.3614
0.4991
0.2281
0.1711
0.0557
0.0351
0.4793
0.2131
0.0401
0.4803
0.1828
0.0874
0.0453
0.0818