

Table S1. Summary Information for the Genetic Data Used in This Study

Phenotypes	Sample Size			SNPs	Reference
	Case	Control	Total		
Whole body fat-free mass			331,291	10,894,596	Details and considerations of the UK Biobank GWAS. Neale Lab.
Hand grip strength (right)			461,089	9,851,867	MRC IEU UK Biobank GWAS pipeline version 2. Multiancestry genome-wide association study of 520,000 subjects identifies 32 loci associated with stroke and stroke subtypes.
Hand grip strength (left)			461,026	9,851,867	
Any ischemic stroke	34,217	406,111	440,328	8,296,492	
Cardioembolic stroke	7,193	406,111	413,304	8,271,294	
Small vessel stroke	5,386	406,111	411,497	8,280,845	
Large-artery atherosclerosis stroke	4,373	406,111	410,484	8,418,349	

Table S2. Characteristics of SNPs for Whole Body Fat-free Mass

SNP	C: H	EA	OA	Association with Exposure			F-statistics
				Beta	SE	P value	
rs1022523	1: 176788394	A	G	0.014	0.002	1.440E-16	68.26
rs10798945	1: 33858873	T	C	0.012	0.002	7.470E-11	42.39
rs111901479	1: 51072387	A	G	0.024	0.003	3.670E-19	80.05
rs11205617	1: 49732337	A	G	0.011	0.002	4.820E-11	43.25
rs11240565	1: 205722958	T	C	0.014	0.002	3.090E-19	80.39
rs11580196	1: 227955276	G	A	-0.012	0.002	2.030E-09	35.94
rs11803905	1: 107989314	T	C	0.010	0.002	8.660E-09	33.12
rs12041740	1: 11236524	A	G	-0.015	0.002	3.930E-18	75.36
rs12072845	1: 214630757	A	G	-0.015	0.002	2.700E-20	85.21
rs12073468	1: 225566546	T	C	0.012	0.002	2.550E-10	39.99
rs12140153	1: 62579891	T	G	-0.016	0.003	1.830E-09	36.15
rs149229890	1: 2253864	T	G	0.045	0.008	2.990E-09	35.19
rs161799	1: 8015560	G	A	-0.009	0.002	3.780E-08	30.26
rs17363646	1: 86823503	G	A	0.015	0.002	7.560E-11	42.37
rs1815518	1: 26476216	T	C	0.016	0.002	5.090E-15	61.23
rs1952527	1: 23400969	C	T	-0.012	0.002	8.830E-14	55.61
rs197372	1: 112289118	C	T	0.010	0.002	1.340E-09	36.76
rs2281175	1: 1665702	C	T	0.011	0.002	8.410E-12	46.67
rs2678204	1: 201800511	G	T	0.012	0.002	2.100E-14	58.44
rs2803888	1: 219004615	A	C	-0.009	0.002	3.600E-08	30.35
rs2815753	1: 72812324	A	G	0.010	0.002	7.420E-10	37.91
rs28391281	1: 38408974	C	T	-0.010	0.002	4.280E-10	38.98
rs284315	1: 10734800	G	A	-0.010	0.002	1.390E-11	45.69
rs2885697	1: 41544279	T	G	-0.020	0.002	9.770E-35	151.18
rs34517439	1: 78450517	A	C	0.036	0.002	2.460E-52	231.84
rs35804313	1: 224667102	T	C	-0.012	0.002	8.270E-10	37.70
rs3738449	1: 212240063	A	G	-0.012	0.002	1.150E-12	50.57
rs3765351	1: 22445991	T	C	-0.011	0.002	1.560E-12	49.98
rs3845344	1: 75001480	T	C	0.009	0.002	2.680E-08	30.93
rs4472800	1: 96280456	T	G	0.010	0.002	2.190E-10	40.29
rs475591	1: 36642420	C	T	0.011	0.002	2.550E-12	49.01
rs545608	1: 177899121	C	G	0.026	0.002	7.650E-44	192.89
rs60077625	1: 172098794	A	G	0.014	0.002	4.090E-18	75.29
rs60804050	1: 118870373	A	G	-0.011	0.002	1.160E-09	37.03
rs72660086	1: 39571992	G	T	0.015	0.002	3.610E-15	61.91
rs76798800	1: 154994978	T	G	0.023	0.002	1.270E-38	168.97

rs815341	1: 190113977	G	A	0.010	0.002	2.240E-09	35.76
rs946197	1: 56602308	C	G	0.016	0.002	3.920E-18	75.37
rs10767735	2: 42625586	C	G	-0.009	0.002	4.170E-09	34.54
rs10883560	2: 100754089	G	C	0.018	0.002	8.160E-31	133.23
rs10995366	2: 198950240	A	G	-0.011	0.002	2.730E-10	39.86
rs11013045	2: 145336371	G	T	-0.009	0.002	6.270E-09	33.75
rs11014285	2: 169706079	A	G	0.018	0.002	9.350E-18	73.65
rs11023199	2: 25458100	G	A	-0.009	0.002	1.270E-08	32.37
rs11030119	2: 33487251	A	G	0.017	0.002	1.040E-23	100.78
rs11217863	2: 242492779	A	G	-0.016	0.002	6.360E-11	42.71
rs11233117	2: 71559445	G	C	-0.010	0.002	6.790E-10	38.08
rs11245450	2: 142290620	A	G	-0.010	0.002	1.200E-10	41.47
rs11594322	2: 184064111	C	A	-0.017	0.002	1.230E-13	54.97
rs117543413	2: 218146818	T	C	-0.040	0.006	5.710E-12	47.43
rs1222219	2: 44991100	C	G	-0.011	0.002	1.890E-09	36.08
rs1228024	2: 56106928	A	C	-0.011	0.002	2.660E-12	48.92
rs1789164	2: 70315987	G	C	0.010	0.002	1.210E-10	41.45
rs2476998	2: 183238919	T	C	0.010	0.002	2.030E-08	31.46
rs35506085	2: 33357096	A	G	-0.020	0.002	2.290E-22	94.65
rs3740591	2: 200112491	T	C	0.013	0.002	9.640E-17	69.05
rs4752689	2: 127876242	A	G	0.011	0.002	3.470E-13	52.93
rs4980067	2: 218278555	A	C	-0.012	0.002	3.210E-14	57.61
rs57153895	2: 233687080	G	A	-0.012	0.002	3.410E-14	57.49
rs57635800	2: 46655260	A	G	0.013	0.002	1.350E-13	54.78
rs607472	2: 23896049	G	C	0.012	0.002	1.440E-13	54.65
rs61862463	2: 223963874	G	A	0.030	0.005	8.090E-09	33.26
rs61941043	2: 88874891	T	A	0.049	0.008	8.010E-10	37.76
rs662115	2: 227261383	T	C	0.010	0.002	4.220E-10	39.01
rs7077783	2: 172416376	T	C	-0.015	0.002	1.360E-11	45.73
rs7080472	2: 233074205	T	G	0.015	0.002	2.280E-22	94.66
rs7097872	2: 111874551	T	C	0.012	0.002	2.190E-14	58.36
rs7129320	2: 68383901	A	G	-0.023	0.002	7.000E-30	128.96
rs71484923	2: 112271208	G	T	0.011	0.002	1.990E-08	31.50
rs7305516	2: 85818797	G	A	-0.011	0.002	2.190E-12	49.31
rs74048171	2: 27730940	A	C	-0.010	0.002	1.050E-08	32.75
rs74565893	2: 422144	T	C	-0.040	0.007	3.410E-08	30.46
rs78812993	2: 9771620	C	G	-0.023	0.003	4.360E-11	43.45
rs7910087	2: 211540507	C	T	-0.012	0.002	2.800E-15	62.41
rs7952436	2: 615627	T	C	-0.033	0.003	3.090E-32	139.74
rs10748128	3: 98665549	T	G	0.012	0.002	3.470E-13	52.93
rs10770705	3: 185828465	C	A	-0.009	0.002	9.400E-09	32.96
rs10843139	3: 33611581	G	T	-0.013	0.002	4.070E-15	61.67
rs10847415	3: 153953440	C	T	0.015	0.002	9.380E-19	78.20
rs11065015	3: 13736088	T	C	-0.031	0.005	6.970E-11	42.53
rs11065979	3: 128992047	T	C	-0.015	0.002	6.590E-22	92.55
rs1351394	3: 9504099	C	T	-0.027	0.002	3.380E-70	313.86
rs1716162	3: 171906978	A	T	-0.013	0.002	1.180E-11	46.01
rs2229840	3: 172163449	T	C	0.022	0.002	8.040E-25	105.85
rs2291256	3: 185490184	T	C	0.016	0.003	1.060E-08	32.74
rs2733287	3: 50190346	C	A	0.009	0.002	1.830E-09	36.15
rs2897968	3: 56535107	A	G	0.016	0.002	2.380E-23	99.13
rs2900208	3: 131516596	A	C	0.014	0.002	1.100E-17	73.33

rs310796	3: 9975386	T	G	0.011	0.002	5.260E-12	47.59
rs324010	3: 85671119	A	G	-0.009	0.002	1.870E-08	31.63
rs35756741	3: 184046042	T	C	-0.019	0.003	1.690E-12	49.82
rs3759094	3: 61219865	T	C	-0.013	0.002	1.180E-14	59.57
rs4980826	3: 88196211	A	C	0.009	0.002	3.750E-08	30.28
rs61954257	3: 152310614	G	A	0.012	0.002	2.360E-14	58.21
rs658957	3: 141105570	C	T	-0.012	0.002	1.800E-08	31.70
rs67551338	3: 38496193	T	C	0.025	0.003	5.580E-15	61.05
rs7132908	3: 56602408	A	G	0.017	0.002	7.520E-26	110.54
rs7134283	3: 25116582	A	G	-0.013	0.002	1.980E-13	54.03
rs76895963	3: 52844733	G	T	0.103	0.006	7.250E-67	298.56
rs12813149	4: 1012300	A	G	-0.010	0.002	4.890E-08	29.76
rs12879423	4: 91102077	G	A	0.015	0.002	2.280E-19	80.99
rs146851424	4: 145839264	C	A	0.065	0.005	3.840E-35	153.03
rs17197114	4: 82184234	C	T	0.013	0.002	1.520E-10	41.01
rs1887855	4: 45186139	C	T	-0.010	0.002	6.030E-09	33.83
rs2490637	4: 1711404	A	C	-0.019	0.003	6.460E-09	33.69
rs3118915	4: 17910236	T	C	-0.032	0.002	2.320E-64	287.06
rs3212260	4: 88647674	T	A	0.013	0.002	5.700E-14	56.48
rs35233301	4: 52818664	G	A	0.011	0.002	5.020E-11	43.17
rs36100359	4: 54368694	A	G	-0.013	0.002	1.060E-08	32.72
rs3783256	4: 135213286	C	T	-0.010	0.002	1.410E-09	36.66
rs3803286	4: 4889866	G	A	-0.010	0.002	4.120E-09	34.57
rs3818416	4: 30854560	C	A	0.016	0.002	8.130E-18	73.93
rs55726687	4: 122713863	A	G	0.015	0.002	4.960E-15	61.28
rs748457	4: 3469987	A	G	0.009	0.002	1.580E-09	36.44
rs7977788	4: 106215673	A	G	0.026	0.002	5.520E-46	202.71
rs7994814	4: 123832776	T	C	0.011	0.002	2.360E-12	49.16
rs9317002	4: 184227430	A	C	0.009	0.002	2.390E-09	35.63
rs9512661	4: 12881731	T	C	-0.009	0.002	1.610E-08	31.92
rs9540493	4: 18531148	G	A	-0.008	0.002	4.660E-08	29.85
rs9788443	4: 87666334	C	T	0.020	0.004	3.730E-08	30.28
rs10483727	5: 131447104	C	T	-0.022	0.002	1.460E-43	191.61
rs11158820	5: 137603293	G	A	-0.010	0.002	2.450E-09	35.58
rs112957890	5: 122657199	G	A	0.012	0.002	1.240E-11	45.92
rs11855017	5: 36181627	A	C	0.013	0.002	8.340E-11	42.18
rs1285990	5: 168256240	T	C	0.011	0.002	3.560E-11	43.85
rs12889702	5: 123990270	C	A	0.009	0.002	1.150E-08	32.57
rs12906197	5: 176526270	T	C	-0.013	0.002	9.540E-16	64.53
rs1521624	5: 67598184	A	C	-0.009	0.002	3.000E-09	35.18
rs1573891	5: 82815158	C	G	-0.023	0.002	3.680E-27	116.53
rs16942324	5: 77379810	A	C	-0.040	0.005	1.090E-16	68.81
rs16964211	5: 36807189	A	G	-0.021	0.004	7.700E-09	33.35
rs2296316	5: 134339065	C	T	-0.011	0.002	1.590E-12	49.94
rs2455561	5: 75003678	G	T	-0.012	0.002	1.120E-15	64.21
rs28413009	5: 39519303	T	C	-0.015	0.003	4.260E-08	30.03
rs28929474	5: 171317318	T	C	0.034	0.005	3.000E-10	39.68
rs30235	5: 88411214	T	C	0.009	0.002	7.280E-09	33.46
rs35874463	5: 5497900	G	A	0.022	0.003	1.200E-11	45.97
rs3809570	5: 54882505	A	C	0.013	0.002	8.540E-14	55.68
rs4782286	5: 95861012	A	G	-0.012	0.002	9.640E-11	41.90

rs4985148	5: 95728898	C	A	-0.011	0.002	1.850E-11	45.12
rs5742915	5: 60731458	C	T	0.010	0.002	5.540E-10	38.48
rs7141420	5: 153340145	T	C	0.012	0.002	1.650E-14	58.92
rs7148516	5: 171224403	A	T	-0.009	0.002	1.530E-08	32.02
rs72699866	5: 170864021	A	G	0.013	0.002	1.090E-11	46.16
rs72755233	5: 172753555	A	G	-0.014	0.002	1.170E-08	32.55
rs8007058	5: 139042547	A	G	0.010	0.002	4.130E-08	30.09
rs8007644	5: 112254377	A	G	0.010	0.002	2.140E-09	35.84
rs933807	5: 42687629	C	G	-0.011	0.002	6.040E-12	47.32
rs10775348	6: 28851637	G	A	0.014	0.002	4.410E-16	66.05
rs11655578	6: 7702659	T	G	0.010	0.002	4.360E-08	29.99
rs11657325	6: 41748352	A	G	-0.016	0.002	4.020E-20	84.42
rs11658134	6: 83359135	A	G	-0.011	0.002	6.710E-13	51.63
rs12452505	6: 76164589	G	C	-0.019	0.002	1.680E-17	72.50
rs2005172	6: 7231843	C	A	0.023	0.002	1.420E-47	210.00
rs216193	6: 32665285	G	A	-0.009	0.002	3.860E-09	34.69
rs2411453	6: 109718565	G	T	-0.012	0.002	1.740E-15	63.35
rs2539999	6: 108876002	C	T	0.017	0.002	1.910E-23	99.56
rs2540034	6: 140439740	T	C	0.015	0.002	9.350E-21	87.31
rs3110496	6: 33516803	G	A	0.010	0.002	6.210E-09	33.77
rs36000545	6: 90321955	G	A	-0.015	0.002	2.010E-21	90.35
rs3814877	6: 126641185	T	G	0.023	0.002	1.890E-50	223.20
rs55831773	6: 80967001	T	C	-0.016	0.002	6.890E-16	65.17
rs55872725	6: 152170247	T	C	0.037	0.002	8.590E-121	546.62
rs62070645	6: 34589632	A	C	-0.024	0.002	3.280E-44	194.57
rs71385734	6: 105358192	G	T	-0.024	0.002	3.580E-31	134.87
rs7190477	6: 19028623	A	C	0.009	0.002	1.930E-09	36.05
rs7205337	6: 166313684	G	A	0.016	0.002	3.950E-17	70.81
rs7214743	6: 50788778	G	A	-0.016	0.002	2.110E-22	94.81
rs72801843	6: 142716286	A	T	0.016	0.002	1.990E-21	90.37
rs72828807	6: 35285720	A	G	0.010	0.002	6.290E-09	33.75
rs77392989	6: 155549240	C	T	-0.014	0.002	5.470E-12	47.51
rs78378222	6: 81360693	G	T	0.089	0.007	9.380E-37	160.41
rs78818722	6: 154405701	T	C	0.023	0.003	3.030E-14	57.72
rs8059189	6: 19839415	A	G	-0.011	0.002	2.730E-12	48.88
rs9915532	6: 44673787	G	A	-0.016	0.002	2.570E-15	62.58
rs9925273	6: 130374461	G	A	-0.013	0.002	1.100E-10	41.64
rs1043413	7: 91291311	G	C	0.010	0.002	9.600E-10	37.41
rs111640872	7: 70106061	C	G	0.015	0.002	3.200E-20	84.87
rs11667280	7: 72991704	G	C	-0.011	0.002	4.690E-09	34.32
rs11880992	7: 6463038	A	G	0.015	0.002	5.830E-21	88.24
rs1552234	7: 156374646	A	G	0.009	0.002	1.420E-08	32.16
rs2305758	7: 55884295	T	C	0.010	0.002	3.700E-09	34.78
rs2602713	7: 93246551	C	A	0.010	0.002	3.580E-11	43.83
rs35710322	7: 28212824	C	T	0.012	0.002	7.330E-16	65.05
rs3810291	7: 92250140	A	G	0.017	0.002	6.100E-25	106.39
rs3843751	7: 50617215	T	C	-0.014	0.002	3.010E-17	71.35
rs4800670	7: 139749346	C	G	-0.009	0.002	2.550E-08	31.03
rs57126421	7: 150668070	G	A	-0.010	0.002	8.230E-09	33.22
rs57636386	7: 46577056	C	T	-0.025	0.003	9.950E-19	78.08

rs6505781	7: 121955981	C	G	-0.010	0.002	2.650E-08	30.95
rs66922415	7: 28779946	G	A	0.044	0.002	6.180E-130	588.73
rs7229351	7: 23513093	A	G	-0.010	0.002	5.530E-11	42.98
rs7235010	7: 127015083	A	G	0.027	0.002	2.750E-47	208.69
rs7250927	7: 76697531	C	T	-0.011	0.002	3.220E-11	44.04
rs74494415	7: 46696175	T	C	-0.030	0.004	2.530E-14	58.08
rs9951619	7: 2859847	G	T	0.013	0.002	2.380E-12	49.15
rs9960619	7: 17979793	T	C	0.009	0.002	1.360E-08	32.24
rs1047891	8: 64702385	A	C	0.017	0.002	1.510E-25	109.16
rs1064213	8: 57160328	A	G	0.012	0.002	5.880E-14	56.42
rs10931008	8: 49407362	C	T	-0.013	0.002	5.110E-15	61.22
rs113902512	8: 144876159	A	G	0.011	0.002	4.800E-08	29.80
rs13430869	8: 73460688	T	G	0.016	0.002	6.300E-19	78.98
rs139590892	8: 6329470	A	G	-0.012	0.002	6.930E-09	33.56
rs147110934	8: 120438273	T	G	-0.033	0.005	7.520E-11	42.38
rs1478575	8: 77761919	A	T	0.020	0.002	2.200E-33	144.99
rs1542224	8: 78138334	C	T	0.015	0.002	2.000E-17	72.16
rs17741497	8: 23647494	A	G	-0.010	0.002	1.410E-09	36.65
rs1837367	8: 135622640	A	G	0.009	0.002	3.420E-09	34.93
rs2140046	8: 25245398	C	T	-0.013	0.002	6.970E-17	69.69
rs2197563	8: 95594720	A	G	0.011	0.002	3.720E-12	48.27
rs2396348	8: 8858717	T	C	0.012	0.002	2.000E-12	49.49
rs281385	8: 116636719	G	A	-0.014	0.002	5.330E-09	34.07
rs3116201	8: 89407821	A	G	-0.018	0.003	2.470E-12	49.08
rs58857770	8: 123980448	G	C	-0.012	0.002	7.850E-14	55.85
rs62621197	8: 126498265	T	C	-0.036	0.004	9.310E-18	73.66
rs71414738	8: 144986108	T	C	0.011	0.002	1.550E-08	31.99
rs72885917	8: 38274193	C	A	-0.022	0.002	2.700E-36	158.31
rs73966422	8: 130719567	G	C	0.013	0.002	4.670E-08	29.85
rs7584391	8: 23159320	A	G	-0.012	0.002	4.900E-09	34.23
rs78964719	8: 57122215	T	G	0.017	0.003	1.920E-08	31.58
rs10170971	9: 118468947	C	G	-0.009	0.002	1.570E-09	36.44
rs11125074	9: 83685732	A	G	0.009	0.002	2.690E-08	30.92
rs11545482	9: 98430421	T	C	-0.035	0.005	8.760E-11	42.08
rs116072427	9: 128068388	C	G	-0.025	0.003	9.690E-17	69.04
rs11678716	9: 139094805	C	G	-0.022	0.003	1.580E-12	49.95
rs11689727	9: 119122721	A	C	-0.011	0.002	4.840E-12	47.76
rs1260326	9: 119303347	C	T	0.021	0.002	4.400E-41	180.24
rs12619348	9: 23315440	T	C	-0.013	0.002	5.970E-09	33.85
rs12713004	9: 103141037	G	A	0.018	0.002	6.580E-27	115.37
rs343935	9: 28414625	C	T	0.013	0.002	3.270E-10	39.51
rs3771382	9: 99101294	G	C	-0.012	0.002	1.030E-15	64.37
rs59985551	9: 90873653	T	C	-0.018	0.002	1.500E-22	95.48
rs62107261	9: 16461905	C	T	-0.054	0.004	7.000E-51	225.17
rs7559547	9: 94179978	T	C	0.032	0.002	6.600E-57	252.83
rs79883557	9: 98217348	T	C	-0.018	0.003	1.970E-10	40.50
rs10203320	10: 115899692	C	T	0.012	0.002	3.080E-13	53.16
rs10485622	10: 70287303	G	A	-0.019	0.002	9.840E-22	91.76
rs116165844	10: 81136129	T	G	-0.014	0.002	8.100E-10	37.74
rs1407031	10: 81213560	T	C	-0.010	0.002	1.450E-09	36.60

rs143384	10: 34636820	G	A	0.038	0.002	6.030E-130	588.77
rs1805165	10: 104606636	A	C	-0.010	0.002	1.740E-08	31.77
rs2230033	10: 96012950	A	G	-0.013	0.002	2.800E-18	76.03
rs2252720	10: 126658075	T	C	-0.014	0.002	1.310E-17	72.99
rs2289976	10: 102673707	A	G	0.012	0.002	2.880E-12	48.77
rs34879158	10: 22827274	C	A	-0.021	0.002	4.560E-34	148.11
rs35276559	10: 4956083	T	C	-0.009	0.002	4.820E-08	29.79
rs4341996	10: 77209145	C	A	-0.011	0.002	1.260E-08	32.40
rs6032233	10: 34961169	C	T	0.012	0.002	2.580E-10	39.97
rs6081869	10: 124131176	G	T	-0.010	0.002	1.820E-10	40.65
rs6085659	10: 89772989	G	A	-0.010	0.002	8.950E-10	37.54
rs6142059	10: 25178864	C	T	0.011	0.002	7.890E-13	51.31
rs73619441	10: 79543740	G	T	-0.016	0.002	1.490E-13	54.59
rs8123912	10: 52772113	C	G	0.011	0.002	5.260E-10	38.58
rs1881975	11: 68388220	G	A	-0.014	0.002	4.310E-15	61.56
rs35665085	11: 118680072	A	G	-0.019	0.003	1.170E-08	32.55
rs357501	11: 43878485	A	G	0.011	0.002	1.850E-11	45.12
rs4076108	11: 2786095	T	A	0.010	0.002	2.080E-08	31.42
rs41311445	11: 2093603	C	A	-0.024	0.003	9.260E-21	87.33
rs4635681	11: 30344345	G	A	0.012	0.002	7.230E-09	33.47
rs4680	11: 120293138	A	G	0.008	0.002	3.690E-08	30.31
rs4819021	11: 10322720	C	T	-0.010	0.002	9.950E-11	41.83
rs509035	11: 67024534	A	G	0.018	0.002	2.840E-28	121.61
rs5752989	11: 14394258	A	G	-0.010	0.002	4.140E-11	43.55
rs6762578	11: 2165576	A	G	0.016	0.002	6.680E-19	78.87
rs724016	11: 28642561	G	A	0.030	0.002	9.220E-84	376.22
rs73052033	11: 69924352	C	T	-0.016	0.002	3.100E-16	66.75
rs73175572	11: 69489163	G	A	0.028	0.002	1.560E-29	127.37
rs7624428	11: 27728102	A	T	0.011	0.002	8.340E-10	37.68
rs9882731	11: 47951353	C	G	-0.013	0.002	6.150E-16	65.40
rs10938398	12: 77453226	A	G	0.011	0.002	5.980E-13	51.86
rs11098675	12: 3393100	G	A	-0.016	0.002	6.610E-16	65.25
rs111632154	12: 20857467	C	T	-0.030	0.004	4.730E-17	70.45
rs11717749	12: 11878464	T	C	0.016	0.002	2.200E-11	44.79
rs13124829	12: 578349	G	A	0.009	0.002	2.690E-08	30.92
rs13148166	12: 24071748	G	T	-0.017	0.002	7.370E-28	119.72
rs1472852	12: 56497903	A	C	-0.032	0.002	5.370E-53	234.88
rs17056859	12: 120520863	A	G	0.009	0.002	9.820E-09	32.88
rs2102278	12: 93982332	G	A	0.011	0.002	2.410E-11	44.61
rs2270894	12: 133393323	G	C	-0.017	0.002	5.750E-17	70.07
rs2592831	12: 50263148	C	T	0.013	0.002	7.540E-16	64.99
rs2968669	12: 90142637	G	C	0.009	0.002	2.410E-09	35.62
rs34028346	12: 991306	A	G	0.012	0.002	3.000E-08	30.71
rs34693680	12: 12868701	T	C	0.014	0.002	9.820E-10	37.36
rs3749387	12: 103175170	C	G	0.010	0.002	1.680E-11	45.32
rs4235012	12: 66351826	C	T	0.009	0.002	6.700E-09	33.62
rs4240326	12: 46763686	G	A	-0.022	0.002	4.830E-46	202.98
rs4627713	12: 102994078	C	T	0.032	0.005	4.690E-12	47.82
rs4858697	12: 102382052	G	A	0.012	0.002	1.210E-15	64.06
rs62246314	12: 124826462	A	G	0.014	0.003	4.720E-08	29.83

rs62275882	12: 69827658	A	G	-0.014	0.002	1.630E-10	40.86
rs6445198	12: 122645872	T	G	-0.009	0.002	3.080E-09	35.13
rs6800021	12: 112059557	A	G	0.014	0.002	1.130E-19	82.37
rs6821305	12: 28380093	C	A	0.012	0.002	8.050E-15	60.33
rs72703414	12: 57482252	G	A	-0.018	0.003	1.200E-08	32.49
rs7628343	12: 122409664	C	T	0.015	0.003	5.270E-09	34.09
rs981002	12: 41880909	A	T	-0.011	0.002	9.010E-11	42.03
rs9826759	12: 123144293	T	C	0.015	0.002	1.920E-19	81.33
rs9861443	12: 123642538	C	A	0.012	0.002	3.260E-12	48.53
rs9985795	12: 4384844	C	T	-0.009	0.002	3.950E-09	34.65
rs10024321	13: 30107388	C	G	-0.009	0.002	8.740E-10	37.59
rs115574684	13: 50377910	A	T	0.022	0.004	2.840E-08	30.81
rs153560	13: 50545357	A	G	0.011	0.002	9.080E-12	46.52
rs1582931	13: 51124662	A	G	-0.020	0.002	1.230E-39	173.61
rs17454369	13: 27960379	C	G	0.022	0.003	3.080E-11	44.13
rs1878528	13: 27054201	G	A	0.013	0.002	1.360E-14	59.30
rs247008	13: 66205704	G	A	0.015	0.002	3.160E-20	84.90
rs299370	13: 78474468	C	T	-0.010	0.002	1.000E-09	37.32
rs33967909	13: 96922449	A	G	0.015	0.002	3.170E-16	66.70
rs7730885	13: 99562238	G	A	0.015	0.002	3.160E-20	84.90
rs9327336	13: 59175727	C	T	0.010	0.002	7.420E-10	37.91
rs115912456	14: 93702672	G	A	0.025	0.004	9.030E-11	42.02
rs16869017	14: 42894143	T	C	0.018	0.003	1.280E-10	41.35
rs183041	14: 25927832	A	G	0.014	0.002	5.120E-16	65.75
rs2118663	14: 103246470	C	T	-0.011	0.002	1.880E-08	31.62
rs2307111	14: 91522114	C	T	-0.018	0.002	1.140E-30	132.57
rs252758	14: 93114787	A	T	-0.017	0.002	9.420E-22	91.85
rs252937	14: 70347348	G	C	-0.010	0.002	8.200E-09	33.23
rs254963	14: 21894526	G	A	-0.010	0.002	4.190E-10	39.03
rs292168	14: 36220876	G	A	-0.014	0.002	8.640E-20	82.91
rs4073717	14: 21578007	T	G	-0.018	0.002	3.150E-21	89.46
rs4282339	14: 103885291	A	G	-0.017	0.002	5.970E-20	83.64
rs4865956	14: 65520246	A	T	-0.011	0.002	1.110E-11	46.13
rs55681913	14: 61072875	C	T	0.028	0.003	1.760E-28	122.56
rs55758152	14: 23878279	A	G	0.012	0.002	6.270E-13	51.76
rs6873192	14: 79899454	G	A	-0.012	0.002	3.900E-15	61.76
rs6874142	14: 24804088	G	T	0.020	0.003	2.130E-15	62.95
rs7709645	14: 73360258	C	G	-0.011	0.002	6.660E-12	47.13
rs7728690	14: 94844947	T	C	-0.011	0.002	3.260E-12	48.53
rs7731023	14: 35218831	G	A	0.010	0.002	7.590E-10	37.87
rs11951673	15: 38492199	T	C	-0.009	0.002	2.860E-08	30.80
rs1591806	15: 62274940	G	A	0.017	0.002	6.800E-27	115.31
rs2457982	15: 99186488	A	G	0.011	0.002	1.350E-09	36.75
rs3778157	15: 86326348	C	T	0.012	0.002	4.280E-09	34.50
rs3853252	15: 79412399	A	G	0.016	0.002	9.610E-25	105.49
rs599004	15: 67457698	T	C	-0.015	0.002	1.770E-17	72.39
rs6235	15: 100692953	G	C	0.016	0.002	4.140E-20	84.36
rs6570509	15: 74336633	T	G	-0.018	0.002	1.550E-25	109.11
rs6902789	15: 42096146	A	G	0.010	0.002	1.100E-10	41.64
rs730536	15: 89383854	C	G	-0.009	0.002	2.500E-08	31.06

rs768023	15: 51530495	A	G	0.019	0.002	2.930E-33	144.42
rs7740107	15: 67000117	A	T	-0.029	0.002	4.970E-61	271.76
rs9480947	15: 55656250	G	C	-0.014	0.002	2.550E-20	85.32
rs12193797	16: 375900	G	A	-0.021	0.002	3.450E-21	89.28
rs12209223	16: 67991972	A	C	0.018	0.003	4.920E-12	47.72
rs12216497	16: 14399793	T	C	-0.011	0.002	4.310E-12	47.98
rs2073272	16: 88806348	A	G	-0.010	0.002	2.810E-09	35.31
rs2395617	16: 30042677	C	A	0.019	0.002	4.470E-16	66.03
rs2503756	16: 81639602	T	C	0.010	0.002	1.020E-10	41.79
rs2744965	16: 28632021	T	C	0.039	0.002	9.870E-70	311.73
rs2856666	16: 2160503	T	G	-0.021	0.002	2.330E-41	181.51
rs3798519	16: 53508802	C	A	0.021	0.002	2.260E-25	108.36
rs390192	16: 86417349	G	A	-0.009	0.002	1.750E-09	36.24
rs41271299	16: 15147788	T	C	0.044	0.003	1.940E-36	158.97
rs79266482	16: 2266173	T	C	0.010	0.002	4.050E-08	30.13
rs9257319	16: 19834422	G	T	-0.019	0.002	1.650E-19	81.63
rs9343977	16: 780339	T	C	-0.013	0.002	7.020E-18	74.22
rs9379084	16: 53809123	A	G	-0.015	0.002	1.250E-09	36.89
rs9379130	16: 71789462	C	G	0.018	0.002	7.270E-33	142.61
rs9381350	16: 4022694	A	T	0.010	0.002	3.950E-09	34.65
rs10236214	17: 42959358	T	C	0.020	0.002	1.120E-36	160.05
rs10237306	17: 2203453	T	G	0.011	0.002	1.010E-12	50.82
rs10257870	17: 7571752	A	C	0.016	0.003	4.590E-08	29.89
rs10260993	17: 79093822	G	T	-0.012	0.002	3.390E-10	39.44
rs111964059	17: 43242694	A	T	0.016	0.003	1.050E-08	32.75
rs17157112	17: 7230845	G	T	-0.009	0.002	2.470E-09	35.56
rs2533879	17: 63556402	A	G	-0.022	0.002	6.700E-40	174.82
rs34776209	17: 59498052	T	C	-0.018	0.002	4.010E-25	107.22
rs3800963	17: 47027359	A	G	-0.009	0.002	9.650E-09	32.91
rs508347	17: 61996255	C	T	-0.013	0.002	3.710E-15	61.85
rs62621812	17: 27917771	A	G	0.049	0.006	1.200E-18	77.72
rs6975015	17: 76739141	A	G	0.018	0.002	1.680E-13	54.35
rs723149	17: 7559037	G	A	-0.013	0.002	9.400E-17	69.10
rs7781964	17: 29180996	A	G	0.013	0.002	1.350E-11	45.75
rs10953112	18: 2656989	C	T	0.015	0.002	2.170E-14	58.37
rs11783086	18: 57848651	C	T	0.009	0.002	1.690E-08	31.82
rs12540011	18: 23415263	A	G	0.014	0.002	8.870E-16	64.67
rs13247154	18: 46516374	A	G	0.012	0.002	3.870E-14	57.24
rs143986132	18: 31216079	G	A	-0.035	0.006	3.140E-09	35.10
rs16892552	18: 56882326	G	A	-0.015	0.002	2.590E-16	67.10
rs2142331	18: 46933945	T	C	-0.013	0.002	1.750E-17	72.42
rs2866719	18: 20724810	T	C	0.009	0.002	4.270E-08	30.02
rs35309034	18: 58048295	A	C	-0.017	0.002	4.240E-21	88.87
rs42044	18: 33040095	G	T	0.029	0.002	3.210E-61	272.63
rs7815955	18: 74972138	T	A	-0.017	0.002	1.090E-19	82.45
rs836519	18: 13161682	T	C	0.012	0.002	2.740E-10	39.86
rs10958683	19: 41939297	G	C	-0.010	0.002	3.050E-08	30.68
rs13264909	19: 7208110	T	A	-0.010	0.002	7.850E-11	42.30
rs1431663	19: 8670147	C	A	-0.009	0.002	4.390E-08	29.97
rs1910252	19: 47569003	T	C	0.016	0.002	6.900E-15	60.63

rs2277138	19: 10748121	C	T	-0.018	0.002	3.660E-31	134.82
rs2280940	19: 30290357	T	C	0.012	0.002	1.920E-12	49.57
rs2979655	19: 55993436	G	T	0.012	0.002	8.580E-09	33.14
rs310302	19: 30705747	A	G	-0.009	0.002	1.810E-08	31.69
rs62515437	19: 49217261	T	G	0.020	0.002	1.100E-28	123.50
rs72656010	19: 4910021	C	T	-0.036	0.002	5.130E-55	244.15
rs7460093	19: 17163661	A	G	0.009	0.002	1.930E-09	36.05
rs9314420	19: 2176403	G	A	-0.009	0.002	4.360E-09	34.46
rs931874	19: 3407384	T	C	0.009	0.002	5.230E-09	34.10
rs10982888	20: 46123184	A	T	-0.016	0.002	5.400E-11	43.03
rs1111818	20: 6542634	C	G	0.009	0.002	3.440E-09	34.92
rs12347137	20: 47863282	C	A	-0.025	0.002	2.790E-39	171.99
rs12682601	20: 34025756	A	C	-0.011	0.002	4.680E-11	43.31
rs13294021	20: 54377866	A	G	-0.011	0.002	9.900E-13	50.87
rs1452822	20: 21223663	A	T	0.021	0.002	3.170E-35	153.41
rs17770336	20: 6686426	T	C	0.011	0.002	3.710E-11	43.77
rs1927635	20: 62610556	C	T	0.010	0.002	1.590E-09	36.42
rs2134963	20: 32544327	A	C	-0.011	0.002	1.480E-10	41.06
rs2274116	20: 61564901	T	C	-0.010	0.002	3.730E-09	34.76
rs2979265	20: 32300634	C	G	0.009	0.002	9.150E-10	37.50
rs35436119	20: 50912495	A	G	0.018	0.003	1.250E-09	36.89
rs61729527	20: 20060745	T	C	-0.025	0.003	5.450E-13	52.04
rs7047694	20: 35864214	A	G	0.011	0.002	1.300E-11	45.82
rs10746837	21: 46466927	A	G	-0.010	0.002	3.060E-11	44.14
rs141403611	21: 39671476	G	C	-0.015	0.003	2.380E-08	31.16
rs10990621	22: 42070374	G	A	0.018	0.002	9.510E-18	73.62
rs113457986	22: 30365780	G	A	0.040	0.006	7.630E-10	37.85
rs2482357	22: 17625915	A	G	-0.010	0.002	8.010E-10	37.76
rs28457693	22: 19951271	G	A	0.027	0.002	1.040E-27	119.03

Notes: C:H = Chromosome: position, EA= Effect allele, OA= Other allele.

Table S3. Characteristics of SNPs for Hand Grip Strength (left)

SNP	C: H	EA	OA	Association with Exposure			F-statistics
				Beta	SE	P value	
rs11121542	1: 10393920	A	G	-0.016	0.002	3.000E-12	48.67
rs11204664	1: 150531380	C	T	-0.009	0.002	8.100E-09	33.25
rs150330307	1: 160160801	C	T	-0.031	0.004	2.900E-13	53.27
rs2800789	1: 164578242	C	A	0.008	0.001	3.100E-08	30.63
rs1044299	1: 176811873	T	C	0.014	0.001	6.600E-21	87.98
rs1884447	1: 185021410	A	G	0.008	0.002	2.300E-08	31.23
rs61818100	1: 190962663	C	T	0.013	0.002	6.200E-09	33.76
rs823130	1: 205714372	T	C	-0.011	0.002	4.400E-14	57.00
rs58670122	1: 22492613	G	A	-0.012	0.002	3.600E-08	30.35
rs6689375	1: 227721627	T	A	-0.016	0.002	5.300E-17	70.21
rs6680160	1: 32072737	G	A	0.010	0.002	6.000E-11	42.81
rs7516571	1: 40733658	G	A	0.009	0.002	3.100E-08	30.66
rs10788958	1: 54040670	G	C	0.014	0.002	1.000E-19	82.54
rs4121165	1: 78276977	A	G	-0.011	0.002	3.400E-10	39.41
rs4335354	1: 88899964	A	C	-0.009	0.002	4.600E-09	34.36
rs3819121	2: 135622860	C	T	0.014	0.002	2.900E-20	85.03
rs34030812	2: 144248905	C	T	-0.010	0.002	4.100E-11	43.57

rs7575451	2: 152352843	G	C	-0.010	0.002	3.800E-10	39.24
rs6433478	2: 175241482	C	T	0.009	0.001	1.500E-09	36.48
rs1434095	2: 179254330	C	T	0.014	0.002	5.300E-10	38.57
rs1981612	2: 199235664	A	C	0.009	0.002	1.000E-09	37.32
rs17630248	2: 201137782	C	T	-0.009	0.002	4.100E-09	34.59
rs10205394	2: 218150948	C	G	-0.011	0.002	1.100E-09	37.18
rs11125803	2: 25052177	T	C	0.014	0.002	3.800E-17	70.88
rs1641457	2: 40421990	G	T	0.012	0.002	1.400E-11	45.65
rs12473732	2: 44118428	T	C	0.011	0.001	1.400E-13	54.66
rs10176878	2: 59952274	C	T	-0.013	0.002	8.600E-12	46.63
rs61286123	2: 60205600	C	T	-0.010	0.002	1.200E-08	32.55
rs7571789	2: 70714793	C	T	0.013	0.001	3.000E-18	75.89
rs10934857	3: 128199662	A	G	0.009	0.002	4.800E-08	29.78
rs9866627	3: 135522715	A	C	-0.016	0.003	5.700E-09	33.94
rs4498020	3: 13810820	A	C	-0.010	0.002	4.300E-10	38.96
rs2871960	3: 141121814	C	A	0.012	0.001	5.500E-16	65.62
rs112485536	3: 195971019	T	C	0.016	0.003	9.400E-09	32.96
rs6802071	3: 38574237	T	C	-0.009	0.002	3.800E-10	39.21
rs62253653	3: 53013267	G	A	0.011	0.002	5.500E-11	43.00
rs71298370	3: 71164965	A	G	0.015	0.003	3.800E-08	30.26
rs4677601	3: 71368790	G	A	0.009	0.001	1.100E-09	37.21
rs13091492	3: 81891476	G	A	-0.008	0.002	3.300E-08	30.55
rs1551042	3: 85630551	C	A	-0.011	0.002	7.400E-13	51.43
rs34587452	4: 1009900	C	G	-0.011	0.002	3.200E-10	39.53
rs2850379	4: 102917419	A	C	-0.008	0.002	3.300E-08	30.54
rs13107325	4: 103188709	T	C	-0.026	0.003	1.800E-20	85.98
rs75497896	4: 119636703	C	T	-0.021	0.003	9.100E-10	37.51
rs13106087	4: 145566864	C	T	0.012	0.002	3.900E-09	34.65
rs997850	4: 154838434	C	G	-0.009	0.002	6.300E-09	33.73
rs13146142	4: 17931318	C	T	-0.020	0.002	2.300E-23	99.16
rs56338231	4: 30867393	G	A	-0.011	0.002	1.700E-10	40.84
rs34722008	4: 38659594	A	G	0.009	0.002	3.300E-08	30.50
rs35609019	4: 7847892	C	G	0.009	0.002	7.700E-10	37.84
rs2431112	5: 103931707	A	G	-0.010	0.001	1.400E-10	41.10
rs2631360	5: 131707429	A	G	-0.011	0.001	1.900E-13	54.10
rs113918482	5: 161289270	G	A	-0.010	0.002	1.500E-08	32.02
rs2974438	5: 168250903	A	G	-0.010	0.002	3.300E-08	30.51
rs116409670	5: 37327472	T	C	-0.015	0.003	2.600E-08	30.97
rs6882168	5: 39402647	T	C	-0.009	0.002	2.800E-09	35.33
rs55681913	5: 42687629	C	T	0.014	0.002	1.600E-08	31.96
rs13356200	5: 67820946	G	T	-0.009	0.002	9.700E-09	32.90
rs12528131	6: 105389104	G	A	-0.009	0.001	2.800E-09	35.31
rs9388769	6: 130379954	A	G	-0.014	0.002	5.100E-19	79.37
rs9371201	6: 150145001	T	C	-0.009	0.002	3.000E-09	35.21
rs9371881	6: 155638213	A	G	0.009	0.002	9.600E-10	37.40
rs41271299	6: 19839415	T	C	0.021	0.003	3.000E-10	39.67
rs2038760	6: 2680732	T	C	-0.012	0.002	6.600E-09	33.66
rs77485342	6: 30842866	T	C	0.033	0.006	3.500E-09	34.88
rs4713506	6: 32113980	A	G	-0.016	0.002	2.000E-20	85.77
rs185320691	6: 32490292	C	G	-0.017	0.003	5.500E-10	38.50

rs35175534	6: 32530029	C	A	-0.016	0.002	3.600E-12	48.35
rs113315602	6: 32574575	C	A	-0.018	0.003	8.600E-12	46.63
rs11243202	6: 7719065	C	T	0.010	0.001	7.000E-11	42.53
rs723588	6: 81056634	C	T	0.013	0.002	1.600E-09	36.42
rs16870531	7: 120660682	T	C	0.011	0.002	1.300E-10	41.30
rs12533765	7: 127699186	G	A	-0.009	0.002	2.600E-08	31.01
rs13227429	7: 140560023	C	T	-0.009	0.001	9.800E-09	32.88
rs6977081	7: 150542515	T	G	0.015	0.002	1.400E-20	86.48
rs73307079	7: 19020024	C	T	0.011	0.002	1.400E-09	36.64
rs11769549	7: 23122239	A	T	0.020	0.003	4.500E-11	43.37
rs4621706	7: 39303296	T	C	-0.012	0.002	6.000E-15	60.91
rs12673062	7: 4710677	A	G	-0.011	0.002	2.600E-09	35.48
rs6962338	7: 69160985	G	A	-0.021	0.004	3.200E-09	35.03
rs17282763	7: 82520166	C	T	0.009	0.002	4.400E-08	29.97
rs10097417	8: 110361477	G	A	-0.013	0.002	1.900E-11	45.08
rs4398863	8: 135695110	C	G	-0.009	0.002	2.000E-08	31.47
rs59116179	8: 22603454	T	C	0.009	0.002	2.400E-08	31.14
rs4737446	8: 57665019	T	G	0.010	0.002	1.200E-10	41.41
rs1486925	8: 78827617	C	T	-0.010	0.002	6.300E-11	42.74
rs4739739	8: 81304576	G	A	-0.009	0.002	1.400E-08	32.17
rs821100	8: 89448877	G	A	-0.010	0.002	1.500E-09	36.58
rs116922558	9: 118802375	G	A	-0.022	0.004	2.100E-08	31.36
rs7856625	9: 119345083	T	C	-0.011	0.002	2.500E-13	53.55
rs2789514	9: 129833029	A	G	0.012	0.002	4.900E-08	29.77
rs10988217	9: 131888116	G	A	-0.009	0.002	1.700E-09	36.25
rs7026798	9: 16427378	C	T	0.008	0.002	4.600E-08	29.89
rs16910750	9: 99084471	C	G	0.011	0.002	3.600E-08	30.37
rs772014	10: 104062494	G	A	-0.011	0.002	2.700E-12	48.87
rs10786706	10: 104500659	T	C	0.010	0.001	1.700E-11	45.27
rs4962700	10: 126479989	G	C	0.009	0.002	3.200E-08	30.60
rs1556659	10: 130834698	T	C	0.016	0.002	2.500E-26	112.69
rs35236379	10: 5727292	T	G	0.012	0.002	5.800E-09	33.91
rs10821939	10: 63751748	A	G	-0.009	0.002	4.900E-10	38.71
rs11002322	10: 79649653	T	G	-0.010	0.002	2.100E-10	40.35
rs11003014	10: 81231387	G	A	0.011	0.002	1.600E-08	31.99
rs10831903	11: 12758660	T	C	0.009	0.002	8.100E-10	37.75
rs34845616	11: 133792644	A	G	0.011	0.002	4.000E-10	39.09
rs7124681	11: 47529947	A	C	-0.012	0.002	1.000E-14	59.89
rs12790261	11: 66988048	A	C	-0.025	0.003	1.200E-20	86.83
rs4930236	11: 68414000	A	C	0.012	0.002	3.800E-09	34.70
rs72977282	11: 74300441	A	T	-0.016	0.002	7.800E-25	105.90
rs61389091	11: 74427921	T	C	0.026	0.004	2.400E-12	49.12
rs11111267	12: 102811239	G	A	0.011	0.002	1.900E-08	31.56
rs4575361	12: 124410529	T	A	-0.011	0.002	1.600E-11	45.46
rs10846071	12: 15016236	T	C	-0.017	0.002	5.300E-28	120.36
rs12316046	12: 15054415	G	A	-0.017	0.002	5.000E-30	129.60
rs76895963	12: 4384844	G	T	0.036	0.006	3.900E-10	39.14
rs11168357	12: 48412138	A	G	-0.010	0.002	2.500E-08	31.10
rs7970350	12: 66360164	T	C	-0.010	0.001	8.600E-12	46.63
rs7963801	12: 79685226	C	T	-0.010	0.002	4.600E-12	47.87

rs3118903	13: 51099577	A	G	-0.017	0.002	2.700E-22	94.28
rs56060323	13: 60473485	T	C	0.009	0.002	1.500E-08	32.03
rs12889267	14: 21542766	G	A	-0.014	0.002	4.700E-12	47.80
rs7148603	14: 36683779	A	G	0.010	0.002	1.600E-09	36.42
rs10144445	14: 39695362	G	C	-0.009	0.002	1.900E-09	36.11
rs2359239	14: 75326771	T	C	-0.009	0.002	6.900E-09	33.56
rs12906830	15: 56963503	C	T	0.011	0.002	9.300E-13	51.00
rs3959716	15: 73106615	G	C	-0.008	0.002	3.100E-08	30.63
rs28542042	15: 74213357	T	C	0.011	0.002	1.200E-11	46.03
rs7176095	15: 74886411	G	A	-0.013	0.002	1.700E-09	36.29
rs17466480	15: 77390870	G	A	-0.012	0.002	9.800E-15	59.93
rs12914702	15: 96887277	A	G	0.011	0.002	9.300E-11	41.96
rs2871865	15: 99194896	G	C	-0.022	0.002	5.000E-21	88.54
rs181766	16: 14394878	C	T	0.010	0.002	1.900E-09	36.08
rs13337177	16: 2175323	T	G	-0.014	0.002	1.600E-13	54.39
rs11642954	16: 24824248	A	G	-0.012	0.002	4.500E-10	38.88
rs3814877	16: 30042677	T	G	0.011	0.002	3.400E-12	48.46
rs11076004	16: 53913930	A	G	-0.012	0.002	2.100E-14	58.43
rs7196917	16: 69896527	G	A	-0.012	0.002	5.400E-15	61.10
rs217181	16: 72114002	T	C	0.012	0.002	2.100E-10	40.38
rs9944324	16: 80929342	G	A	-0.009	0.002	1.200E-08	32.44
rs7197751	16: 84940033	T	G	-0.009	0.002	1.400E-09	36.67
rs755547	17: 43011908	A	G	0.017	0.002	3.200E-18	75.74
rs113434679	17: 44126765	A	C	-0.015	0.002	1.900E-15	63.20
rs999493	17: 46625519	A	G	0.013	0.002	6.200E-17	69.91
rs2532111	17: 62017421	G	A	0.010	0.002	4.100E-11	43.58
rs2587505	17: 77784268	C	T	-0.009	0.002	2.300E-09	35.70
rs143002906	18: 12992162	T	C	0.026	0.005	9.800E-09	32.88
rs4308051	18: 20735461	G	T	0.016	0.002	1.400E-18	77.33
rs62081464	18: 35142133	T	C	-0.010	0.002	2.800E-08	30.83
rs35054365	18: 46612306	A	T	0.013	0.001	1.200E-17	73.17
rs635538	18: 53273614	A	G	-0.022	0.003	3.800E-16	66.36
rs8101782	19: 12507992	C	A	0.010	0.002	2.900E-08	30.77
rs8108461	19: 2186757	C	T	0.010	0.002	2.600E-10	39.96
rs10403906	19: 37376756	A	G	-0.010	0.001	1.500E-11	45.54
rs11669079	19: 52219938	T	A	0.011	0.002	1.900E-11	45.07
rs143384	20: 34025756	G	A	0.021	0.002	1.500E-43	191.54
rs4811040	20: 48968438	G	C	-0.009	0.002	3.000E-08	30.72
rs9611273	22: 40534466	T	C	0.011	0.002	4.500E-10	38.87
rs6006984	22: 45714937	C	T	0.010	0.002	2.600E-09	35.45

Notes: C:H = Chromosome: position, EA= Effect allele, OA= Other allele.

Table S4. Characteristics of SNPs for Hand Grip Strength (Right)

SNP	C: H	EA	OA	Association with Exposure			F-statistics
				Beta	SE	P value	
rs6693965	1: 10378416	T	G	-0.016	0.002	3.20E-13	53.09
rs6693567	1: 150510660	T	C	-0.010	0.002	6.30E-09	33.75
rs150330307	1: 160160801	C	T	-0.033	0.004	1.20E-14	59.50
rs10798483	1: 176799143	A	G	0.015	0.001	2.80E-22	94.22
rs1952256	1: 184035116	G	A	0.010	0.002	4.10E-10	39.04
rs2147461	1: 191051627	C	T	0.013	0.002	6.10E-09	33.79

rs35304341	1: 200971049	A	G	-0.014	0.003	4.00E-08	30.13
rs823130	1: 205714372	T	C	-0.012	0.002	1.70E-16	67.90
rs56144131	1: 208977656	C	T	-0.013	0.002	3.80E-10	39.23
rs7549184	1: 215412906	A	G	0.011	0.002	5.80E-09	33.90
rs58670122	1: 22492613	G	A	-0.013	0.002	7.40E-10	37.90
rs10799428	1: 227798565	T	C	-0.014	0.002	4.60E-14	56.89
rs10798876	1: 32074514	G	C	0.009	0.001	4.30E-09	34.47
rs1892425	1: 41744821	A	G	0.011	0.002	1.10E-10	41.61
rs4927015	1: 54072471	A	G	0.013	0.002	5.00E-18	74.90
rs4121165	1: 78276977	A	G	-0.012	0.002	4.80E-11	43.25
rs12562146	1: 86247267	A	T	0.012	0.002	2.00E-08	31.48
rs6711390	2: 135629439	T	C	0.013	0.002	4.00E-18	75.30
rs34030812	2: 144248905	C	T	-0.009	0.002	3.30E-09	35.02
rs7575451	2: 152352843	G	C	-0.011	0.002	9.30E-12	46.47
rs12616285	2: 169156907	G	T	0.012	0.002	5.40E-09	34.05
rs35833641	2: 179462494	G	A	0.009	0.002	8.50E-09	33.15
rs1840753	2: 199060177	T	C	0.018	0.003	1.40E-08	32.14
rs1047891	2: 211540507	A	C	0.010	0.002	1.30E-09	36.81
rs2194747	2: 218126181	G	A	0.010	0.002	1.90E-09	36.12
rs6715064	2: 220041928	T	C	-0.009	0.002	9.60E-09	32.91
rs2894602	2: 227249802	G	A	0.010	0.002	9.90E-09	32.86
rs1550115	2: 25041620	T	C	0.015	0.002	4.50E-19	79.63
rs1641457	2: 40421990	G	T	0.013	0.002	2.40E-13	53.61
rs7565148	2: 44188396	G	T	-0.010	0.001	3.60E-12	48.31
rs7576964	2: 48601448	T	G	0.010	0.002	5.30E-10	38.58
rs1442883	2: 59970660	A	C	-0.011	0.002	5.80E-10	38.37
rs3771498	2: 70720070	T	C	0.014	0.001	1.90E-21	90.50
rs12052508	2: 72757843	T	C	-0.013	0.002	4.70E-09	34.30
rs10193039	2: 99692373	T	A	-0.010	0.002	4.10E-10	39.08
rs62234790	3: 13750642	A	C	0.011	0.002	8.80E-10	37.59
rs9853018	3: 141101961	T	C	0.010	0.001	8.80E-12	46.57
rs2362972	3: 158163272	A	C	-0.009	0.002	1.30E-08	32.30
rs7652177	3: 171969077	G	C	0.009	0.001	7.90E-09	33.31
rs2194411	3: 185548663	A	G	0.014	0.002	2.10E-10	40.37
rs2341184	3: 196930781	C	T	0.010	0.002	1.70E-09	36.24
rs6792762	3: 38574491	A	G	-0.009	0.002	1.80E-09	36.19
rs9757079	3: 53155158	T	C	0.010	0.002	8.40E-10	37.67
rs35457492	3: 70194564	C	A	0.008	0.001	2.20E-08	31.28
rs71298370	3: 71164965	A	G	0.017	0.003	8.90E-10	37.56
rs35701422	3: 85575775	C	T	-0.009	0.002	1.50E-08	32.07
rs1440152	3: 98489915	G	C	0.008	0.001	3.50E-08	30.41
rs34587452	4: 1009900	C	G	-0.011	0.002	9.10E-10	37.51
rs13107325	4: 103188709	T	C	-0.028	0.003	2.10E-22	94.78
rs114924396	4: 119755621	G	A	-0.019	0.003	8.20E-09	33.23
rs13106087	4: 145566864	C	T	0.013	0.002	6.20E-11	42.75
rs997850	4: 154838434	C	G	-0.009	0.002	3.70E-09	34.77
rs13146142	4: 17931318	C	T	-0.021	0.002	1.40E-24	104.78
rs7657558	4: 30648636	G	T	0.011	0.002	1.10E-10	41.63
rs75457267	5: 102658770	T	C	-0.019	0.003	3.40E-08	30.44
rs2431112	5: 103931707	A	G	-0.011	0.001	8.60E-14	55.67

rs12522139	5: 122699812	G	T	-0.011	0.002	6.80E-09	33.60
rs2631360	5: 131707429	A	G	-0.011	0.001	5.40E-14	56.57
rs6870324	5: 141787317	G	C	-0.010	0.002	3.00E-09	35.20
rs13169333	5: 153064994	C	T	0.009	0.002	4.30E-08	30.00
rs13355365	5: 154942606	T	C	-0.008	0.002	3.40E-08	30.46
rs4868110	5: 171164168	T	A	-0.010	0.002	1.00E-09	37.31
rs6882168	5: 39402647	T	C	-0.009	0.002	7.90E-09	33.29
rs13356200	5: 67820946	G	T	-0.009	0.002	1.80E-09	36.19
rs9322822	6: 105369598	T	C	0.011	0.002	3.50E-12	48.40
rs1885690	6: 109672998	A	C	-0.008	0.002	2.80E-08	30.86
rs9388051	6: 122577108	A	G	0.011	0.002	2.70E-08	30.90
rs7451021	6: 130381246	C	T	-0.016	0.002	7.70E-23	96.78
rs113835839	6: 13784625	T	C	-0.010	0.002	1.10E-08	32.70
rs645144	6: 141180780	C	T	-0.009	0.002	4.30E-08	30.00
rs1125	6: 149979416	A	G	-0.010	0.002	1.90E-10	40.57
rs721101	6: 155632844	C	T	0.009	0.002	1.60E-08	31.97
rs9396861	6: 18404133	A	C	-0.010	0.002	5.70E-10	38.43
rs77485342	6: 30842866	T	C	0.035	0.006	2.60E-10	39.96
rs9267806	6: 32110886	A	G	-0.017	0.002	7.70E-23	96.78
rs185320691	6: 32490292	C	G	-0.020	0.003	5.60E-14	56.52
rs35175534	6: 32530029	C	A	-0.019	0.002	4.20E-16	66.16
rs113315602	6: 32574575	C	A	-0.021	0.003	1.40E-15	63.70
rs11243202	6: 7719065	C	T	0.012	0.001	6.50E-15	60.76
rs2322754	6: 81046299	A	G	-0.012	0.002	3.80E-09	34.74
rs10278546	7: 100516003	C	A	0.011	0.002	1.10E-08	32.59
rs4730984	7: 120655676	T	G	0.010	0.002	1.80E-09	36.17
rs6977081	7: 150542515	T	G	0.013	0.002	5.70E-16	65.53
rs2389763	7: 17307847	C	T	-0.008	0.002	3.80E-08	30.26
rs2717351	7: 19019880	G	A	0.013	0.002	3.40E-12	48.44
rs112330055	7: 23109316	A	G	0.018	0.003	1.70E-08	31.78
rs7790322	7: 2830498	T	C	-0.009	0.002	1.20E-08	32.49
rs4549685	7: 39326478	T	C	0.010	0.002	8.10E-10	37.75
rs9639938	7: 46262729	G	C	0.009	0.001	5.20E-09	34.11
rs852520	7: 5695267	A	C	-0.009	0.002	1.50E-08	32.03
rs6962338	7: 69160985	G	A	-0.020	0.004	2.00E-08	31.54
rs62509875	8: 110360944	G	A	-0.013	0.002	2.40E-11	44.61
rs4737446	8: 57665019	T	G	0.010	0.002	2.40E-10	40.10
rs6473015	8: 78178485	C	A	0.010	0.002	5.50E-09	34.00
rs1486925	8: 78827617	C	T	-0.010	0.002	2.90E-09	35.26
rs116922558	9: 118802375	G	A	-0.025	0.004	1.80E-10	40.70
rs2208562	9: 119344528	T	C	-0.012	0.002	3.10E-14	57.67
rs600038	9: 136151806	C	T	-0.010	0.002	1.50E-08	32.02
rs10761411	9: 136973826	T	C	-0.011	0.002	1.30E-08	32.37
rs11998884	9: 33684436	T	C	0.017	0.003	2.80E-08	30.81
rs7034200	9: 4289050	A	C	0.009	0.001	5.30E-09	34.06
rs113851275	9: 98297220	A	G	0.013	0.002	4.30E-08	30.03
rs7871404	9: 99262296	G	A	0.012	0.002	3.40E-10	39.42
rs2273555	10: 104127171	A	G	0.011	0.002	4.20E-13	52.57
rs12763284	10: 104508202	G	A	0.010	0.001	1.20E-10	41.53
rs4751671	10: 116138744	A	G	0.008	0.002	4.10E-08	30.12

rs4752689	10: 124131176	A	G	0.009	0.002	6.40E-09	33.71
rs4962700	10: 126479989	G	C	0.009	0.002	1.20E-08	32.45
rs1556659	10: 130834698	T	C	0.018	0.002	3.80E-30	130.17
rs12412806	10: 24860913	A	G	-0.009	0.002	3.00E-08	30.71
rs72820369	10: 81251539	T	A	0.016	0.002	4.40E-12	47.92
rs11022513	11: 12840986	T	C	-0.009	0.002	1.10E-09	37.20
rs34845616	11: 133792644	A	G	0.010	0.002	1.70E-08	31.83
rs10770125	11: 2169014	G	A	0.008	0.001	1.40E-08	32.19
rs11039348	11: 47728617	A	G	-0.010	0.002	3.90E-10	39.16
rs2244621	11: 64026219	T	C	0.012	0.002	4.50E-08	29.94
rs12790261	11: 66988048	A	C	-0.026	0.003	2.00E-22	94.88
rs72977282	11: 74300441	A	T	-0.017	0.002	1.20E-28	123.29
rs61389091	11: 74427921	T	C	0.022	0.004	3.60E-09	34.82
rs6592737	11: 77322619	T	A	-0.009	0.002	2.00E-09	36.00
rs7301953	12: 124405871	A	G	-0.012	0.002	6.40E-13	51.73
rs10846071	12: 15016236	T	C	-0.016	0.002	6.50E-25	106.25
rs12316046	12: 15054415	G	A	-0.016	0.002	3.80E-26	111.86
rs12823922	12: 24186697	G	A	-0.011	0.002	1.60E-10	40.87
rs76895963	12: 4384844	G	T	0.036	0.006	4.10E-10	39.05
rs4768725	12: 46848478	C	T	0.009	0.002	2.30E-08	31.24
rs1635527	12: 48396364	C	G	0.010	0.001	6.80E-11	42.56
rs10784502	12: 66343810	T	C	-0.011	0.001	7.10E-14	56.04
rs7963801	12: 79685226	C	T	-0.011	0.002	8.40E-14	55.70
rs7953280	12: 94136009	C	G	-0.009	0.001	1.80E-09	36.16
rs3118914	13: 51116901	T	G	-0.019	0.002	5.90E-27	115.56
rs12889267	14: 21542766	G	A	-0.012	0.002	6.70E-10	38.11
rs7148603	14: 36683779	A	G	0.009	0.002	4.70E-09	34.33
rs10483727	14: 61072875	C	T	-0.009	0.002	3.30E-09	34.99
rs2296316	14: 65520246	C	T	-0.008	0.002	4.60E-08	29.90
rs935728	14: 80957923	T	C	0.010	0.002	1.80E-09	36.23
rs9652468	15: 56823913	A	G	-0.013	0.002	3.30E-13	53.00
rs4553566	15: 58336319	C	T	-0.009	0.001	4.60E-10	38.85
rs2165241	15: 74222202	C	T	0.012	0.001	1.90E-16	67.72
rs12101479	15: 74248548	C	G	-0.011	0.002	1.50E-09	36.56
rs12899474	15: 77391603	T	C	-0.015	0.002	5.40E-10	38.53
rs12914702	15: 96887277	A	G	0.011	0.002	1.90E-10	40.54
rs2871865	15: 99194896	G	C	-0.024	0.002	1.80E-24	104.22
rs248831	16: 11281218	A	G	0.010	0.002	8.40E-09	33.18
rs246181	16: 14392641	T	C	0.010	0.002	3.70E-10	39.27
rs7206195	16: 2145280	T	C	-0.015	0.002	2.80E-15	62.42
rs11642954	16: 24824248	A	G	-0.013	0.002	2.20E-12	49.27
rs62037412	16: 28917746	A	G	0.009	0.002	1.90E-09	36.03
rs76749769	16: 3291408	T	C	0.014	0.003	2.20E-08	31.30
rs3848369	16: 415078	T	C	-0.010	0.002	4.70E-10	38.80
rs4784329	16: 53910261	C	A	-0.013	0.002	9.00E-19	78.27
rs7196917	16: 69896527	G	A	-0.011	0.002	1.90E-12	49.58
rs8055199	16: 84867404	A	G	-0.009	0.002	1.20E-08	32.48
rs4785574	16: 89568875	G	A	-0.010	0.001	4.50E-12	47.89
rs7214252	17: 27486673	A	G	-0.010	0.002	2.00E-08	31.50
rs1043515	17: 36922196	G	A	0.014	0.001	2.80E-20	85.16

rs56365901	17: 43960323	G	A	-0.014	0.002	1.80E-15	63.27
rs4793658	17: 45878733	C	A	-0.014	0.002	3.80E-08	30.24
rs2854152	17: 61986027	G	A	0.011	0.002	6.00E-12	47.33
rs12452505	17: 63556402	G	C	-0.014	0.002	1.40E-11	45.67
rs56074046	17: 7358930	A	G	-0.009	0.002	4.40E-09	34.44
rs2587505	17: 77784268	C	T	-0.009	0.002	8.10E-10	37.75
rs4369779	18: 20735408	C	T	0.017	0.002	3.40E-21	89.28
rs10520770	18: 46602964	C	T	0.012	0.001	4.50E-15	61.46
rs635538	18: 53273614	A	G	-0.022	0.003	1.50E-16	68.23
rs7249	19: 18391171	T	C	0.008	0.002	4.00E-08	30.16
rs36065733	19: 2163771	G	T	0.010	0.001	8.20E-11	42.22
rs34217742	19: 37376830	A	T	0.015	0.002	1.40E-10	41.22
rs4802848	19: 52218342	C	G	0.011	0.002	3.80E-11	43.73
rs79723785	19: 55818225	C	T	-0.034	0.006	1.60E-08	31.90
rs911642	20: 13260252	T	C	0.009	0.002	2.00E-08	31.49
rs143384	20: 34025756	G	A	0.023	0.002	2.50E-52	231.74
rs7266065	20: 47531817	A	G	0.010	0.002	4.60E-10	38.84
rs6063504	20: 48981014	G	C	0.009	0.001	7.80E-09	33.33
rs2226685	21: 40069825	C	T	0.010	0.002	3.10E-09	35.14
rs6006984	22: 45714937	C	T	0.010	0.002	5.10E-10	38.65

Table S5. The Association Information of FFM-associated SNPs with Several Strokes

SNP	EA	OA	AIS			CES			SVS			LAS		
			Beta	SE	P value	Beta	SE	P value	Beta	SE	P value	Beta	SE	P value
rs10024321	C	G	-0.019	0.010	6.16E-02	-0.036	0.021	7.65E-02	-0.019	0.010	6.16E-02	0.008	0.025	7.48E-01
rs10170971	C	G	0.000	0.011	9.92E-01	0.037	0.021	7.40E-02	0.000	0.011	9.92E-01	-0.024	0.027	3.67E-01
rs10203320	C	T	0.015	0.011	1.76E-01	0.013	0.021	5.34E-01	0.015	0.011	1.76E-01	0.014	0.028	6.13E-01
rs1022523	A	G	-0.007	0.011	5.68E-01	0.004	0.022	8.58E-01	-0.007	0.011	5.68E-01	-0.038	0.028	1.65E-01
rs10236214	T	C	-0.033	0.010	1.63E-03	-0.071	0.020	3.34E-04	-0.033	0.010	1.63E-03	-0.017	0.028	5.49E-01
rs10237306	T	G	0.012	0.010	2.50E-01	0.022	0.020	2.58E-01	0.012	0.010	2.50E-01	0.017	0.026	5.18E-01
rs10257870	A	C	-0.007	0.020	7.50E-01	0.003	0.040	9.48E-01	-0.007	0.020	7.50E-01	-0.026	0.052	6.23E-01
rs10260993	G	T	-0.004	0.013	7.31E-01	-0.012	0.024	6.25E-01	-0.004	0.013	7.31E-01	-0.034	0.031	2.77E-01
rs1043413	G	C	0.005	0.011	6.33E-01	0.010	0.020	6.08E-01	0.005	0.011	6.33E-01	0.000	0.025	9.92E-01
rs1047891	A	C	-0.002	0.011	8.74E-01	0.006	0.023	7.85E-01	-0.002	0.011	8.74E-01	-0.024	0.029	3.96E-01
rs10483727	C	T	0.008	0.010	4.43E-01	-0.001	0.020	9.63E-01	0.008	0.010	4.43E-01	0.030	0.026	2.58E-01
rs10485622	G	A	-0.022	0.013	7.88E-02	-0.047	0.025	5.29E-02	-0.022	0.013	7.88E-02	0.016	0.031	6.04E-01
rs1064213	A	G	0.006	0.010	5.65E-01	0.009	0.019	6.50E-01	0.006	0.010	5.65E-01	0.045	0.025	6.77E-02
rs10746837	A	G	0.014	0.010	1.59E-01	0.001	0.019	9.69E-01	0.014	0.010	1.59E-01	0.026	0.026	3.11E-01
rs10748128	T	G	-0.016	0.011	1.30E-01	-0.012	0.021	5.66E-01	-0.016	0.011	1.30E-01	0.018	0.027	5.15E-01
rs10767735	C	G	-0.020	0.010	5.45E-02	-0.019	0.020	3.32E-01	-0.020	0.010	5.45E-02	-0.070	0.025	5.93E-03
rs10770705	C	A	0.010	0.011	3.73E-01	0.001	0.021	9.64E-01	0.010	0.011	3.73E-01	0.052	0.027	5.87E-02
rs10775348	G	A	0.015	0.012	1.87E-01	0.011	0.023	6.42E-01	0.015	0.012	1.87E-01	-0.068	0.029	1.69E-02
rs10798945	T	C	0.004	0.012	7.62E-01	-0.025	0.023	2.68E-01	0.004	0.012	7.62E-01	0.023	0.029	4.39E-01
rs10843139	G	T	-0.013	0.011	2.33E-01	0.004	0.021	8.36E-01	-0.013	0.011	2.33E-01	-0.019	0.027	4.91E-01
rs10847415	C	T	0.001	0.012	9.59E-01	0.021	0.021	3.12E-01	0.001	0.012	9.59E-01	-0.010	0.027	7.00E-01
rs10883560	G	C	0.009	0.011	3.92E-01	0.015	0.019	4.28E-01	0.009	0.011	3.92E-01	0.026	0.025	2.90E-01
rs10931008	C	T	0.027	0.011	1.24E-02	0.012	0.020	5.31E-01	0.027	0.011	1.24E-02	0.029	0.026	2.57E-01
rs10938398	A	G	0.003	0.010	7.95E-01	0.002	0.020	9.15E-01	0.003	0.010	7.95E-01	0.037	0.026	1.44E-01
rs10953112	C	T	-0.006	0.016	7.27E-01	0.035	0.031	2.55E-01	-0.006	0.016	7.27E-01	-0.022	0.041	6.02E-01
rs10958683	G	C	0.037	0.012	2.17E-03	0.019	0.024	4.32E-01	0.037	0.012	2.17E-03	0.071	0.031	1.94E-02

rs10982888	A	T	-0.012	0.016	4.45E-01	-0.007	0.031	8.20E-01	-0.012	0.016	4.45E-01	-0.010	0.039	7.96E-01
rs10990621	G	A	-0.012	0.014	3.83E-01	-0.020	0.027	4.45E-01	-0.012	0.014	3.83E-01	-0.004	0.034	8.99E-01
rs10995366	A	G	-0.008	0.012	4.91E-01	-0.015	0.023	5.08E-01	-0.008	0.012	4.91E-01	-0.002	0.029	9.42E-01
rs11013045	G	T	0.007	0.010	5.34E-01	0.020	0.019	2.95E-01	0.007	0.010	5.34E-01	0.035	0.025	1.73E-01
rs11014285	A	G	0.032	0.014	2.52E-02	0.022	0.027	4.23E-01	0.032	0.014	2.52E-02	0.026	0.035	4.63E-01
rs11023199	G	A	0.005	0.011	6.46E-01	-0.020	0.020	3.06E-01	0.005	0.011	6.46E-01	0.027	0.026	2.98E-01
rs11030119	A	G	0.015	0.011	1.59E-01	0.002	0.021	9.32E-01	0.015	0.011	1.59E-01	0.062	0.027	2.12E-02
rs11065015	T	C	-0.007	0.035	8.42E-01	0.023	0.072	7.54E-01	-0.007	0.035	8.42E-01	0.041	0.089	6.48E-01
rs11065979	T	C	0.078	0.010	2.02E-14	0.057	0.020	3.55E-03	0.078	0.010	2.02E-14	0.099	0.026	1.09E-04
rs11098675	G	A	0.014	0.013	2.64E-01	-0.021	0.024	3.73E-01	0.014	0.013	2.64E-01	0.022	0.031	4.76E-01
rs1111818	C	G	-0.006	0.010	5.67E-01	0.013	0.020	5.27E-01	-0.006	0.010	5.67E-01	-0.027	0.026	3.00E-01
rs11125074	A	G	0.015	0.010	1.30E-01	0.024	0.019	2.21E-01	0.015	0.010	1.30E-01	0.007	0.025	7.72E-01
rs11158820	G	A	0.012	0.011	2.95E-01	0.028	0.022	1.96E-01	0.012	0.011	2.95E-01	0.059	0.028	3.86E-02
rs111632154	C	T	0.036	0.028	1.85E-01	0.017	0.053	7.48E-01	0.036	0.028	1.85E-01	-0.022	0.071	7.61E-01
rs111640872	C	G	-0.006	0.011	5.93E-01	0.022	0.020	2.87E-01	-0.006	0.011	5.93E-01	-0.035	0.027	1.95E-01
rs111901479	A	G	-0.026	0.017	1.40E-01	-0.008	0.034	8.07E-01	-0.026	0.017	1.40E-01	-0.075	0.043	8.50E-02
rs111964059	A	T	0.018	0.020	3.70E-01	0.008	0.040	8.38E-01	0.018	0.020	3.70E-01	0.097	0.051	5.94E-02
rs11205617	A	G	0.002	0.011	8.78E-01	0.017	0.021	4.06E-01	0.002	0.011	8.78E-01	0.061	0.026	1.99E-02
rs11217863	A	G	0.013	0.018	4.57E-01	-0.031	0.031	3.10E-01	0.013	0.018	4.57E-01	0.072	0.039	6.46E-02
rs11233117	G	C	0.003	0.010	7.72E-01	0.016	0.020	4.20E-01	0.003	0.010	7.72E-01	0.013	0.025	6.08E-01
rs11240565	T	C	0.002	0.010	8.80E-01	-0.017	0.019	3.71E-01	0.002	0.010	8.80E-01	-0.008	0.025	7.61E-01
rs11245450	A	G	-0.001	0.010	9.43E-01	0.017	0.019	3.72E-01	-0.001	0.010	9.43E-01	0.083	0.027	2.28E-03
rs112957890	G	A	-0.003	0.012	7.93E-01	-0.065	0.023	5.15E-03	-0.003	0.012	7.93E-01	-0.054	0.030	6.99E-02
rs113457986	G	A	0.008	0.046	8.65E-01	-0.057	0.100	5.71E-01	0.008	0.046	8.65E-01	-0.175	0.127	1.67E-01
rs113902512	A	G	-0.005	0.017	7.76E-01	0.022	0.033	5.11E-01	-0.005	0.017	7.76E-01	-0.036	0.042	3.90E-01
rs11545482	T	C	-0.019	0.043	6.54E-01	0.034	0.089	7.01E-01	-0.019	0.043	6.54E-01	0.028	0.106	7.94E-01
rs115574684	A	T	-0.011	0.026	6.84E-01	-0.032	0.054	5.57E-01	-0.011	0.026	6.84E-01	0.052	0.067	4.39E-01
rs11580196	G	A	-0.003	0.014	8.08E-01	-0.001	0.027	9.87E-01	-0.003	0.014	8.08E-01	0.018	0.034	5.95E-01
rs115912456	G	A	-0.024	0.026	3.48E-01	-0.026	0.052	6.18E-01	-0.024	0.026	3.48E-01	0.044	0.065	5.00E-01
rs11594322	C	A	0.010	0.015	5.22E-01	0.032	0.029	2.67E-01	0.010	0.015	5.22E-01	-0.009	0.037	8.03E-01
rs116072427	C	G	0.011	0.021	6.08E-01	-0.031	0.041	4.53E-01	0.011	0.021	6.08E-01	0.004	0.052	9.38E-01
rs116165844	T	G	-0.007	0.017	6.73E-01	0.015	0.033	6.51E-01	-0.007	0.017	6.73E-01	-0.044	0.041	2.83E-01
rs11655578	T	G	0.015	0.014	2.79E-01	-0.007	0.027	8.10E-01	0.015	0.014	2.79E-01	0.065	0.035	6.32E-02
rs11657325	A	G	-0.005	0.012	6.98E-01	-0.017	0.022	4.47E-01	-0.005	0.012	6.98E-01	0.001	0.028	9.82E-01
rs11658134	A	G	-0.017	0.010	9.44E-02	-0.024	0.019	1.98E-01	-0.017	0.010	9.44E-02	-0.039	0.024	1.12E-01
rs11667280	G	C	0.009	0.013	4.63E-01	0.009	0.024	7.27E-01	0.009	0.013	4.63E-01	-0.002	0.031	9.56E-01
rs11678716	C	G	-0.003	0.021	9.04E-01	0.055	0.042	1.94E-01	-0.003	0.021	9.04E-01	-0.007	0.056	9.01E-01
rs11689727	A	C	0.016	0.012	1.78E-01	0.001	0.022	9.48E-01	0.016	0.012	1.78E-01	0.021	0.028	4.49E-01
rs11717749	T	C	-0.002	0.016	8.98E-01	0.035	0.031	2.63E-01	-0.002	0.016	8.98E-01	-0.045	0.040	2.59E-01
rs117543413	T	C	0.030	0.061	6.24E-01	0.213	0.136	1.17E-01	0.030	0.061	6.24E-01	0.255	0.165	1.23E-01
rs11783086	C	T	-0.017	0.010	1.01E-01	0.008	0.020	6.97E-01	-0.017	0.010	1.01E-01	-0.008	0.026	7.61E-01
rs11803905	T	C	-0.014	0.012	2.40E-01	-0.025	0.022	2.71E-01	-0.014	0.012	2.40E-01	-0.010	0.030	7.41E-01
rs11855017	A	C	0.010	0.013	4.33E-01	0.017	0.026	5.19E-01	0.010	0.013	4.33E-01	0.052	0.032	1.07E-01
rs11880992	A	G	0.006	0.010	5.41E-01	-0.007	0.019	7.25E-01	0.006	0.010	5.41E-01	0.016	0.025	5.28E-01
rs11951673	T	C	0.026	0.010	1.16E-02	0.016	0.019	4.17E-01	0.026	0.010	1.16E-02	0.019	0.025	4.46E-01
rs12041740	A	G	0.002	0.012	8.81E-01	0.006	0.023	7.80E-01	0.002	0.012	8.81E-01	0.004	0.029	8.91E-01
rs12072845	A	G	-0.006	0.010	5.83E-01	-0.023	0.020	2.42E-01	-0.006	0.010	5.83E-01	-0.022	0.026	4.05E-01
rs12073468	T	C	0.001	0.012	9.66E-01	0.037	0.023	1.10E-01	0.001	0.012	9.66E-01	0.017	0.030	5.81E-01
rs12140153	T	G	-0.024	0.019	1.99E-01	0.010	0.036	7.90E-01	-0.024	0.019	1.99E-01	-0.134	0.050	7.21E-03
rs12193797	G	A	0.024	0.016	1.17E-01	-0.014	0.030	6.43E-01	0.024	0.016	1.17E-01	0.004	0.039	9.22E-01

rs12209223	A	C	0.039	0.017	1.68E-02	0.102	0.032	1.27E-03	0.039	0.017	1.68E-02	0.104	0.040	9.92E-03
rs12216497	T	C	0.001	0.010	9.11E-01	0.009	0.019	6.22E-01	0.001	0.010	9.11E-01	0.006	0.025	8.09E-01
rs1222219	C	G	-0.006	0.012	6.02E-01	0.014	0.023	5.48E-01	-0.006	0.012	6.02E-01	-0.029	0.030	3.44E-01
rs1228024	A	C	-0.017	0.011	1.11E-01	-0.034	0.021	1.05E-01	-0.017	0.011	1.11E-01	0.038	0.027	1.62E-01
rs12347137	C	A	-0.006	0.012	6.11E-01	-0.028	0.024	2.35E-01	-0.006	0.012	6.11E-01	0.009	0.031	7.62E-01
rs12452505	G	C	0.013	0.016	4.13E-01	-0.012	0.031	7.00E-01	0.013	0.016	4.13E-01	0.042	0.039	2.75E-01
rs12540011	A	G	-0.012	0.011	2.88E-01	-0.011	0.022	6.09E-01	-0.012	0.011	2.88E-01	-0.024	0.028	3.83E-01
rs1260326	C	T	-0.006	0.011	5.83E-01	0.013	0.021	5.49E-01	-0.006	0.011	5.83E-01	-0.020	0.028	4.69E-01
rs12619348	T	C	-0.015	0.016	3.51E-01	0.022	0.030	4.56E-01	-0.015	0.016	3.51E-01	-0.016	0.038	6.87E-01
rs12682601	A	C	-0.004	0.011	6.85E-01	0.036	0.020	7.02E-02	-0.004	0.011	6.85E-01	-0.036	0.026	1.64E-01
rs12713004	G	A	-0.011	0.011	3.50E-01	-0.012	0.022	5.82E-01	-0.011	0.011	3.50E-01	-0.039	0.028	1.55E-01
rs12813149	A	G	-0.022	0.011	5.48E-02	-0.013	0.022	5.56E-01	-0.022	0.011	5.48E-02	-0.018	0.028	5.21E-01
rs1285990	T	C	-0.023	0.011	3.85E-02	-0.027	0.021	2.11E-01	-0.023	0.011	3.85E-02	-0.038	0.025	1.29E-01
rs12879423	G	A	-0.014	0.011	1.81E-01	0.011	0.020	5.91E-01	-0.014	0.011	1.81E-01	0.010	0.026	7.11E-01
rs12889702	C	A	0.004	0.011	7.34E-01	-0.028	0.021	1.76E-01	0.004	0.011	7.34E-01	0.000	0.027	9.87E-01
rs12906197	T	C	-0.004	0.010	7.21E-01	-0.012	0.020	5.40E-01	-0.004	0.010	7.21E-01	-0.047	0.026	6.70E-02
rs13124829	G	A	-0.007	0.011	4.90E-01	-0.005	0.020	8.23E-01	-0.007	0.011	4.90E-01	0.004	0.026	8.66E-01
rs13148166	G	T	-0.008	0.010	4.56E-01	-0.015	0.020	4.55E-01	-0.008	0.010	4.56E-01	0.033	0.025	1.78E-01
rs13247154	A	G	-0.007	0.012	5.68E-01	-0.012	0.020	5.65E-01	-0.007	0.012	5.68E-01	-0.005	0.027	8.42E-01
rs13264909	T	A	-0.010	0.010	3.26E-01	0.000	0.019	9.95E-01	-0.010	0.010	3.26E-01	-0.051	0.025	3.65E-02
rs13294021	A	G	0.004	0.010	6.92E-01	0.002	0.019	9.32E-01	0.004	0.010	6.92E-01	0.025	0.024	3.10E-01
rs13430869	T	G	0.020	0.011	7.32E-02	0.021	0.022	3.29E-01	0.020	0.011	7.32E-02	0.004	0.028	8.83E-01
rs1351394	C	T	0.014	0.010	1.74E-01	0.001	0.019	9.69E-01	0.014	0.010	1.74E-01	0.069	0.025	6.59E-03
rs139590892	A	G	-0.008	0.014	5.72E-01	-0.040	0.028	1.52E-01	-0.008	0.014	5.72E-01	0.010	0.035	7.75E-01
rs1407031	T	C	0.013	0.010	2.17E-01	0.005	0.020	8.04E-01	0.013	0.010	2.17E-01	0.026	0.026	3.15E-01
rs141403611	G	C	-0.001	0.018	9.43E-01	-0.001	0.035	9.75E-01	-0.001	0.018	9.43E-01	0.023	0.044	6.06E-01
rs1431663	C	A	-0.006	0.010	5.55E-01	-0.013	0.020	5.11E-01	-0.006	0.010	5.55E-01	-0.056	0.025	2.63E-02
rs143986132	G	A	0.034	0.052	5.22E-01	0.235	0.113	3.82E-02	0.034	0.052	5.22E-01	0.137	0.138	3.21E-01
rs1452822	A	T	-0.007	0.011	5.08E-01	0.008	0.021	7.01E-01	-0.007	0.011	5.08E-01	-0.038	0.027	1.63E-01
rs146851424	C	A	-0.022	0.034	5.26E-01	-0.019	0.074	7.98E-01	-0.022	0.034	5.26E-01	-0.013	0.091	8.91E-01
rs147110934	T	G	-0.003	0.039	9.41E-01	0.054	0.082	5.12E-01	-0.003	0.039	9.41E-01	-0.013	0.097	8.93E-01
rs1472852	A	C	0.024	0.014	9.64E-02	0.001	0.028	9.62E-01	0.024	0.014	9.64E-02	0.069	0.035	4.53E-02
rs1478575	A	T	0.003	0.011	7.53E-01	-0.003	0.021	9.02E-01	0.003	0.011	7.53E-01	-0.003	0.026	9.20E-01
rs149229890	T	G	-0.070	0.080	3.85E-01	-0.138	0.162	3.95E-01	-0.070	0.080	3.85E-01	-0.350	0.192	6.83E-02
rs1521624	A	C	0.003	0.010	7.84E-01	0.014	0.018	4.34E-01	0.003	0.010	7.84E-01	0.022	0.025	3.79E-01
rs153560	A	G	0.003	0.011	7.43E-01	-0.003	0.020	8.97E-01	0.003	0.011	7.43E-01	-0.012	0.026	6.43E-01
rs1542224	C	T	0.008	0.012	5.08E-01	0.008	0.022	7.05E-01	0.008	0.012	5.08E-01	0.016	0.028	5.62E-01
rs1552234	A	G	0.005	0.010	5.95E-01	0.001	0.019	9.55E-01	0.005	0.010	5.95E-01	0.012	0.025	6.38E-01
rs1573891	C	G	0.010	0.014	4.67E-01	-0.002	0.027	9.37E-01	0.010	0.014	4.67E-01	0.013	0.035	7.17E-01
rs1582931	A	G	-0.034	0.010	7.24E-04	0.011	0.019	5.57E-01	-0.034	0.010	7.24E-04	-0.060	0.025	1.51E-02
rs1591806	G	A	0.012	0.010	2.11E-01	0.009	0.019	6.39E-01	0.012	0.010	2.11E-01	0.031	0.024	2.05E-01
rs161799	G	A	0.003	0.011	7.82E-01	-0.002	0.020	9.23E-01	0.003	0.011	7.82E-01	-0.026	0.026	3.11E-01
rs16869017	T	C	0.014	0.018	4.54E-01	0.062	0.035	7.71E-02	0.014	0.018	4.54E-01	-0.012	0.045	7.87E-01
rs16892552	G	A	0.003	0.011	8.07E-01	0.008	0.022	7.18E-01	0.003	0.011	8.07E-01	0.016	0.028	5.76E-01
rs16942324	A	C	0.076	0.038	4.51E-02	0.095	0.080	2.33E-01	0.076	0.038	4.51E-02	0.064	0.102	5.26E-01
rs16964211	A	G	0.038	0.024	1.14E-01	0.018	0.048	7.07E-01	0.038	0.024	1.14E-01	0.121	0.058	3.68E-02
rs17056859	A	G	0.014	0.011	1.83E-01	0.023	0.020	2.63E-01	0.014	0.011	1.83E-01	0.014	0.027	5.89E-01
rs17157112	G	T	-0.014	0.010	1.56E-01	-0.026	0.019	1.87E-01	-0.014	0.010	1.56E-01	-0.036	0.025	1.57E-01
rs1716162	A	T	0.028	0.012	2.22E-02	0.041	0.024	8.48E-02	0.028	0.012	2.22E-02	0.024	0.030	4.35E-01
rs17197114	C	T	-0.006	0.014	6.52E-01	-0.028	0.027	2.91E-01	-0.006	0.014	6.52E-01	-0.006	0.034	8.69E-01

rs17363646	G	A	-0.004	0.014	7.93E-01	0.002	0.027	9.42E-01	-0.004	0.014	7.93E-01	0.009	0.035	8.06E-01
rs17454369	C	G	0.007	0.024	7.65E-01	0.016	0.048	7.33E-01	0.007	0.024	7.65E-01	-0.017	0.058	7.72E-01
rs17741497	A	G	0.017	0.011	1.06E-01	0.022	0.020	2.75E-01	0.017	0.011	1.06E-01	0.021	0.027	4.39E-01
rs17770336	T	C	0.007	0.011	5.10E-01	0.005	0.020	8.27E-01	0.007	0.011	5.10E-01	-0.008	0.027	7.81E-01
rs1789164	G	C	-0.011	0.011	3.45E-01	-0.006	0.021	7.84E-01	-0.011	0.011	3.45E-01	0.010	0.028	7.09E-01
rs1805165	A	C	0.003	0.011	7.67E-01	-0.035	0.022	1.14E-01	0.003	0.011	7.67E-01	-0.004	0.029	8.81E-01
rs1815518	T	C	-0.035	0.014	1.16E-02	-0.042	0.026	1.11E-01	-0.035	0.014	1.16E-02	-0.071	0.033	3.22E-02
rs183041	A	G	0.004	0.012	7.63E-01	-0.013	0.023	5.58E-01	0.004	0.012	7.63E-01	0.000	0.029	9.91E-01
rs1837367	A	G	0.000	0.010	9.87E-01	0.005	0.019	7.82E-01	0.000	0.010	9.87E-01	0.034	0.025	1.70E-01
rs1878528	G	A	-0.004	0.011	7.43E-01	0.013	0.021	5.34E-01	-0.004	0.011	7.43E-01	0.008	0.026	7.50E-01
rs1881975	G	A	0.015	0.012	2.00E-01	0.035	0.023	1.31E-01	0.015	0.012	2.00E-01	0.024	0.030	4.27E-01
rs1887855	C	T	0.007	0.011	5.41E-01	-0.010	0.022	6.45E-01	0.007	0.011	5.41E-01	0.003	0.028	9.22E-01
rs1910252	T	C	0.022	0.013	9.36E-02	-0.019	0.026	4.62E-01	0.022	0.013	9.36E-02	0.089	0.032	5.47E-03
rs1927635	C	T	0.011	0.010	3.03E-01	-0.005	0.020	7.97E-01	0.011	0.010	3.03E-01	-0.016	0.026	5.40E-01
rs1952527	C	T	0.015	0.011	1.59E-01	-0.025	0.021	2.19E-01	0.015	0.011	1.59E-01	0.033	0.026	2.19E-01
rs197372	C	T	-0.006	0.011	5.81E-01	0.014	0.021	4.95E-01	-0.006	0.011	5.81E-01	0.024	0.027	3.67E-01
rs2005172	C	A	-0.014	0.011	1.99E-01	0.008	0.021	6.96E-01	-0.014	0.011	1.99E-01	0.010	0.027	7.02E-01
rs2073272	A	G	0.002	0.011	8.57E-01	-0.008	0.020	6.95E-01	0.002	0.011	8.57E-01	0.020	0.026	4.44E-01
rs2102278	G	A	0.026	0.011	1.84E-02	0.013	0.020	5.31E-01	0.026	0.011	1.84E-02	0.011	0.027	6.88E-01
rs2118663	C	T	-0.012	0.012	3.36E-01	-0.003	0.024	8.90E-01	-0.012	0.012	3.36E-01	0.026	0.031	3.92E-01
rs2134963	A	C	-0.021	0.011	5.12E-02	-0.020	0.020	3.37E-01	-0.021	0.011	5.12E-02	0.017	0.026	5.10E-01
rs2140046	C	T	0.009	0.011	4.08E-01	0.007	0.020	7.08E-01	0.009	0.011	4.08E-01	0.034	0.026	1.88E-01
rs2142331	T	C	0.008	0.010	4.29E-01	0.011	0.019	5.66E-01	0.008	0.010	4.29E-01	0.039	0.025	1.23E-01
rs216193	G	A	-0.008	0.010	4.69E-01	-0.031	0.020	1.14E-01	-0.008	0.010	4.69E-01	0.016	0.026	5.48E-01
rs2197563	A	G	-0.025	0.010	1.26E-02	0.015	0.019	4.45E-01	-0.025	0.010	1.26E-02	-0.061	0.025	1.54E-02
rs2229840	T	C	-0.022	0.014	1.13E-01	0.013	0.027	6.39E-01	-0.022	0.014	1.13E-01	0.003	0.035	9.23E-01
rs2230033	A	G	0.015	0.010	1.63E-01	0.018	0.020	3.76E-01	0.015	0.010	1.63E-01	0.051	0.027	5.72E-02
rs2252720	T	C	-0.011	0.011	2.90E-01	-0.023	0.021	2.57E-01	-0.011	0.011	2.90E-01	-0.054	0.026	3.73E-02
rs2270894	G	C	-0.023	0.015	1.23E-01	-0.046	0.029	1.03E-01	-0.023	0.015	1.23E-01	0.003	0.038	9.45E-01
rs2274116	T	C	0.005	0.011	6.74E-01	0.009	0.021	6.72E-01	0.005	0.011	6.74E-01	0.008	0.027	7.65E-01
rs2277138	C	T	0.007	0.010	4.79E-01	0.006	0.019	7.76E-01	0.007	0.010	4.79E-01	0.053	0.027	4.57E-02
rs2280940	T	C	0.019	0.011	9.28E-02	0.010	0.021	6.28E-01	0.019	0.011	9.28E-02	-0.029	0.027	2.80E-01
rs2281175	C	T	0.000	0.013	9.79E-01	-0.001	0.025	9.60E-01	0.000	0.013	9.79E-01	-0.035	0.034	2.96E-01
rs2289976	A	G	0.002	0.011	8.48E-01	0.018	0.021	4.02E-01	0.002	0.011	8.48E-01	0.020	0.028	4.76E-01
rs2291256	T	C	0.035	0.020	8.76E-02	0.053	0.041	1.99E-01	0.035	0.020	8.76E-02	0.021	0.052	6.78E-01
rs2296316	C	T	0.005	0.010	6.46E-01	-0.013	0.019	5.03E-01	0.005	0.010	6.46E-01	-0.014	0.025	5.82E-01
rs2305758	T	C	-0.033	0.011	3.82E-03	0.028	0.022	1.95E-01	-0.033	0.011	3.82E-03	-0.048	0.029	9.94E-02
rs2307111	C	T	-0.017	0.010	1.05E-01	-0.021	0.020	3.03E-01	-0.017	0.010	1.05E-01	0.007	0.026	7.78E-01
rs2395617	C	A	-0.013	0.017	4.16E-01	0.035	0.033	2.91E-01	-0.013	0.017	4.16E-01	-0.033	0.040	4.11E-01
rs2396348	T	C	0.005	0.011	6.54E-01	0.011	0.021	5.92E-01	0.005	0.011	6.54E-01	0.008	0.027	7.59E-01
rs2411453	G	T	0.004	0.011	7.22E-01	-0.007	0.022	7.30E-01	0.004	0.011	7.22E-01	0.043	0.028	1.21E-01
rs2455561	G	T	-0.005	0.010	6.29E-01	-0.025	0.019	1.90E-01	-0.005	0.010	6.29E-01	0.044	0.024	6.95E-02
rs2457982	A	G	-0.012	0.011	2.85E-01	-0.002	0.022	9.35E-01	-0.012	0.011	2.85E-01	-0.087	0.029	2.77E-03
rs247008	G	A	0.013	0.011	2.20E-01	0.004	0.021	8.44E-01	0.013	0.011	2.20E-01	0.002	0.027	9.44E-01
rs2476998	T	C	-0.001	0.011	9.36E-01	0.020	0.021	3.43E-01	-0.001	0.011	9.36E-01	0.032	0.026	2.22E-01
rs2482357	A	G	-0.001	0.010	9.47E-01	-0.017	0.020	3.75E-01	-0.001	0.010	9.47E-01	0.030	0.025	2.32E-01
rs2490637	A	C	-0.003	0.021	8.94E-01	0.008	0.040	8.49E-01	-0.003	0.021	8.94E-01	0.057	0.051	2.56E-01
rs2503756	T	C	0.002	0.010	8.69E-01	0.010	0.019	6.21E-01	0.002	0.010	8.69E-01	0.038	0.025	1.35E-01
rs252758	A	T	-0.008	0.012	4.99E-01	-0.012	0.023	6.12E-01	-0.008	0.012	4.99E-01	0.067	0.029	2.10E-02
rs252937	G	C	0.005	0.011	6.52E-01	0.016	0.021	4.38E-01	0.005	0.011	6.52E-01	-0.038	0.027	1.63E-01

rs2533879	A	G	0.004	0.011	6.83E-01	0.001	0.021	9.75E-01	0.004	0.011	6.83E-01	0.003	0.026	9.06E-01
rs2539999	C	T	0.007	0.012	5.65E-01	0.020	0.023	3.91E-01	0.007	0.012	5.65E-01	-0.007	0.030	8.09E-01
rs2540034	T	C	0.015	0.011	1.47E-01	0.031	0.020	1.31E-01	0.015	0.011	1.47E-01	0.067	0.027	1.13E-02
rs254963	G	A	-0.012	0.010	2.43E-01	-0.040	0.020	4.41E-02	-0.012	0.010	2.43E-01	-0.010	0.026	7.05E-01
rs2592831	C	T	0.012	0.010	2.52E-01	0.012	0.020	5.53E-01	0.012	0.010	2.52E-01	0.037	0.026	1.48E-01
rs2602713	C	A	0.000	0.011	9.76E-01	0.017	0.020	3.97E-01	0.000	0.011	9.76E-01	0.002	0.026	9.44E-01
rs2678204	G	T	0.018	0.011	9.21E-02	0.000	0.020	9.84E-01	0.018	0.011	9.21E-02	0.018	0.026	4.79E-01
rs2733287	C	A	0.009	0.010	3.59E-01	-0.011	0.019	5.56E-01	0.009	0.010	3.59E-01	0.024	0.024	3.33E-01
rs2744965	T	C	0.020	0.014	1.68E-01	0.038	0.027	1.68E-01	0.020	0.014	1.68E-01	0.058	0.034	9.41E-02
rs2803888	A	C	-0.004	0.010	7.08E-01	-0.026	0.019	1.77E-01	-0.004	0.010	7.08E-01	0.004	0.025	8.85E-01
rs281385	G	A	0.006	0.016	7.14E-01	-0.064	0.030	3.41E-02	0.006	0.016	7.14E-01	-0.023	0.038	5.56E-01
rs2815753	A	G	-0.010	0.010	3.03E-01	0.010	0.020	6.19E-01	-0.010	0.010	3.03E-01	-0.012	0.025	6.51E-01
rs28391281	C	T	0.034	0.011	1.42E-03	0.018	0.020	3.66E-01	0.034	0.011	1.42E-03	0.024	0.026	3.61E-01
rs28413009	T	C	0.009	0.018	6.13E-01	-0.012	0.035	7.27E-01	0.009	0.018	6.13E-01	0.063	0.044	1.52E-01
rs284315	G	A	0.000	0.011	9.85E-01	-0.027	0.020	1.81E-01	0.000	0.011	9.85E-01	-0.018	0.026	4.81E-01
rs28457693	G	A	0.045	0.016	3.70E-03	0.093	0.030	1.77E-03	0.045	0.016	3.70E-03	0.041	0.039	2.95E-01
rs2856666	T	G	0.003	0.015	8.37E-01	0.005	0.027	8.54E-01	0.003	0.015	8.37E-01	-0.009	0.036	8.08E-01
rs2866719	T	C	0.017	0.011	1.02E-01	0.003	0.020	9.00E-01	0.017	0.011	1.02E-01	0.038	0.026	1.42E-01
rs2885697	T	G	-0.015	0.010	1.57E-01	-0.051	0.020	1.09E-02	-0.015	0.010	1.57E-01	-0.022	0.026	3.97E-01
rs28929474	T	C	0.036	0.044	4.07E-01	0.063	0.105	5.52E-01	0.036	0.044	4.07E-01	0.066	0.118	5.72E-01
rs2897968	A	G	0.002	0.010	8.37E-01	0.003	0.019	8.63E-01	0.002	0.010	8.37E-01	-0.001	0.025	9.65E-01
rs2900208	A	C	-0.015	0.010	1.54E-01	-0.023	0.020	2.46E-01	-0.015	0.010	1.54E-01	-0.007	0.026	7.80E-01
rs292168	G	A	-0.014	0.010	1.57E-01	-0.024	0.019	1.97E-01	-0.014	0.010	1.57E-01	0.023	0.024	3.48E-01
rs2968669	G	C	-0.005	0.010	6.16E-01	0.012	0.019	5.23E-01	-0.005	0.010	6.16E-01	0.007	0.025	7.81E-01
rs2979265	C	G	-0.006	0.011	5.86E-01	-0.026	0.020	1.95E-01	-0.006	0.011	5.86E-01	0.001	0.026	9.70E-01
rs2979655	G	T	0.014	0.014	3.03E-01	0.005	0.025	8.33E-01	0.014	0.014	3.03E-01	-0.042	0.033	2.07E-01
rs299370	C	T	-0.041	0.011	2.42E-04	-0.069	0.022	1.34E-03	-0.041	0.011	2.42E-04	-0.054	0.027	4.88E-02
rs30235	T	C	0.019	0.011	7.20E-02	0.031	0.020	1.32E-01	0.019	0.011	7.20E-02	-0.025	0.027	3.54E-01
rs310302	A	G	0.006	0.010	5.92E-01	-0.006	0.020	7.54E-01	0.006	0.010	5.92E-01	-0.003	0.025	8.97E-01
rs310796	T	G	-0.009	0.011	4.28E-01	-0.006	0.021	7.56E-01	-0.009	0.011	4.28E-01	-0.022	0.027	4.11E-01
rs3110496	G	A	-0.012	0.011	2.83E-01	-0.014	0.019	4.61E-01	-0.012	0.011	2.83E-01	-0.048	0.028	8.52E-02
rs3116201	A	G	0.001	0.017	9.39E-01	-0.027	0.034	4.15E-01	0.001	0.017	9.39E-01	0.015	0.042	7.13E-01
rs3118915	T	C	0.002	0.012	8.73E-01	-0.016	0.023	4.86E-01	0.002	0.012	8.73E-01	0.023	0.029	4.30E-01
rs3212260	T	A	0.010	0.011	3.99E-01	0.025	0.022	2.59E-01	0.010	0.011	3.99E-01	0.002	0.028	9.42E-01
rs324010	A	G	0.012	0.010	2.33E-01	0.011	0.019	5.73E-01	0.012	0.010	2.33E-01	0.042	0.025	9.07E-02
rs33967909	A	G	0.002	0.012	8.69E-01	0.026	0.023	2.59E-01	0.002	0.012	8.69E-01	0.078	0.029	7.26E-03
rs34028346	A	G	-0.024	0.014	9.64E-02	0.004	0.028	8.82E-01	-0.024	0.014	9.64E-02	0.026	0.035	4.65E-01
rs343935	C	T	-0.019	0.015	1.94E-01	-0.014	0.029	6.22E-01	-0.019	0.015	1.94E-01	-0.062	0.037	9.89E-02
rs34517439	A	C	0.029	0.016	7.84E-02	0.002	0.032	9.47E-01	0.029	0.016	7.84E-02	0.027	0.041	5.05E-01
rs34693680	T	C	-0.019	0.015	2.13E-01	-0.063	0.030	3.47E-02	-0.019	0.015	2.13E-01	0.027	0.038	4.71E-01
rs34776209	T	C	0.006	0.012	6.04E-01	-0.020	0.023	3.75E-01	0.006	0.012	6.04E-01	0.025	0.029	3.95E-01
rs34879158	C	A	0.002	0.012	8.85E-01	0.039	0.022	7.83E-02	0.002	0.012	8.85E-01	0.004	0.029	8.88E-01
rs35233301	G	A	-0.009	0.011	3.93E-01	0.009	0.021	6.84E-01	-0.009	0.011	3.93E-01	-0.025	0.027	3.63E-01
rs35276559	T	C	0.000	0.011	9.74E-01	0.015	0.022	4.98E-01	0.000	0.011	9.74E-01	0.011	0.028	6.87E-01
rs35309034	A	C	-0.014	0.012	2.24E-01	-0.002	0.023	9.26E-01	-0.014	0.012	2.24E-01	-0.024	0.030	4.30E-01
rs35436119	A	G	0.002	0.020	9.37E-01	0.027	0.039	4.91E-01	0.002	0.020	9.37E-01	-0.018	0.050	7.18E-01
rs35506085	A	G	-0.011	0.013	4.12E-01	-0.004	0.025	8.83E-01	-0.011	0.013	4.12E-01	-0.042	0.032	1.90E-01
rs35665085	A	G	-0.004	0.025	8.90E-01	0.006	0.050	9.05E-01	-0.004	0.025	8.90E-01	-0.036	0.068	5.93E-01
rs35710322	C	T	-0.007	0.010	4.65E-01	-0.005	0.019	8.08E-01	-0.007	0.010	4.65E-01	-0.007	0.025	7.67E-01
rs357501 ^o	A	G	0.006	0.010	5.43E-01	0.018	0.020	3.63E-01	0.006	0.010	5.43E-01	0.043	0.025	9.23E-02

rs35756741	T	C	0.028	0.017	1.02E-01	-0.002	0.034	9.59E-01	0.028	0.017	1.02E-01	0.054	0.042	1.99E-01
rs35804313	T	C	0.014	0.012	2.46E-01	0.001	0.022	9.84E-01	0.014	0.012	2.46E-01	-0.026	0.030	3.80E-01
rs35874463	G	A	0.060	0.027	2.40E-02	0.017	0.053	7.53E-01	0.060	0.027	2.40E-02	0.013	0.068	8.49E-01
rs36000545	G	A	0.000	0.011	9.93E-01	-0.031	0.022	1.54E-01	0.000	0.011	9.93E-01	0.049	0.028	8.26E-02
rs36100359	A	G	0.006	0.015	6.84E-01	0.024	0.029	4.19E-01	0.006	0.015	6.84E-01	0.017	0.037	6.43E-01
rs3738449	A	G	0.022	0.011	3.94E-02	0.008	0.020	6.88E-01	0.022	0.011	3.94E-02	0.011	0.027	6.91E-01
rs3740591	T	C	-0.002	0.011	8.31E-01	-0.006	0.022	7.77E-01	-0.002	0.011	8.31E-01	-0.019	0.027	4.79E-01
rs3749387	C	G	-0.002	0.010	8.58E-01	-0.017	0.019	3.91E-01	-0.002	0.010	8.58E-01	-0.031	0.024	2.06E-01
rs3759094	T	C	-0.017	0.011	1.21E-01	0.001	0.020	9.80E-01	-0.017	0.011	1.21E-01	-0.022	0.026	3.95E-01
rs3765351	T	C	-0.010	0.010	3.39E-01	0.023	0.019	2.37E-01	-0.010	0.010	3.39E-01	-0.014	0.025	5.62E-01
rs3771382	G	C	-0.026	0.010	9.20E-03	-0.016	0.019	4.07E-01	-0.026	0.010	9.20E-03	-0.001	0.025	9.58E-01
rs3778157	C	T	0.031	0.013	2.27E-02	0.031	0.026	2.38E-01	0.031	0.013	2.27E-02	0.069	0.033	3.56E-02
rs3783256 ^o	C	T	-0.003	0.010	7.64E-01	-0.009	0.020	6.55E-01	-0.003	0.010	7.64E-01	-0.001	0.026	9.81E-01
rs3798519	C	A	0.021	0.013	9.98E-02	0.031	0.025	2.09E-01	0.021	0.013	9.98E-02	0.045	0.031	1.45E-01
rs3800963	A	G	-0.020	0.010	4.72E-02	-0.025	0.019	1.98E-01	-0.020	0.010	4.72E-02	0.031	0.025	2.17E-01
rs3803286	G	A	0.015	0.011	1.66E-01	-0.018	0.019	3.58E-01	0.015	0.011	1.66E-01	0.014	0.026	5.93E-01
rs3809570	A	C	0.006	0.011	5.69E-01	0.044	0.022	4.40E-02	0.006	0.011	5.69E-01	0.028	0.028	3.27E-01
rs3810291	A	G	-0.004	0.011	7.55E-01	-0.022	0.021	3.11E-01	-0.004	0.011	7.55E-01	0.007	0.029	8.08E-01
rs3814877	T	G	-0.015	0.010	1.42E-01	-0.048	0.019	1.27E-02	-0.015	0.010	1.42E-01	-0.017	0.024	4.99E-01
rs3818416	C	A	0.010	0.012	4.17E-01	0.005	0.023	8.26E-01	0.010	0.012	4.17E-01	-0.002	0.029	9.51E-01
rs3843751	T	C	0.047	0.011	1.20E-05	0.062	0.020	2.61E-03	0.047	0.011	1.20E-05	0.066	0.026	1.15E-02
rs3845344	T	C	-0.017	0.010	1.02E-01	-0.025	0.019	2.04E-01	-0.017	0.010	1.02E-01	-0.029	0.025	2.55E-01
rs3853252	A	G	-0.006	0.010	5.38E-01	-0.015	0.020	4.56E-01	-0.006	0.010	5.38E-01	-0.065	0.025	8.64E-03
rs390192	G	A	-0.013	0.010	2.22E-01	-0.026	0.019	1.80E-01	-0.013	0.010	2.22E-01	-0.008	0.025	7.39E-01
rs4073717	T	G	-0.004	0.013	7.84E-01	-0.003	0.025	8.99E-01	-0.004	0.013	7.84E-01	0.021	0.031	4.95E-01
rs4076108	T	A	0.007	0.012	5.82E-01	-0.002	0.023	9.27E-01	0.007	0.012	5.82E-01	-0.035	0.030	2.39E-01
rs41271299	T	C	-0.007	0.032	8.25E-01	0.135	0.062	2.96E-02	-0.007	0.032	8.25E-01	-0.006	0.084	9.42E-01
rs41311445	C	A	-0.021	0.018	2.39E-01	-0.006	0.034	8.54E-01	-0.021	0.018	2.39E-01	-0.015	0.045	7.39E-01
rs42044	G	T	-0.047	0.012	3.57E-05	-0.047	0.022	3.33E-02	-0.047	0.012	3.57E-05	-0.027	0.029	3.53E-01
rs4235012	C	T	-0.005	0.010	6.14E-01	-0.022	0.019	2.43E-01	-0.005	0.010	6.14E-01	0.004	0.025	8.90E-01
rs4240326	G	A	0.014	0.010	1.54E-01	-0.007	0.019	7.01E-01	0.014	0.010	1.54E-01	0.046	0.025	7.25E-02
rs4282339	A	G	-0.030	0.012	1.50E-02	-0.041	0.024	8.69E-02	-0.030	0.012	1.50E-02	-0.005	0.030	8.71E-01
rs4341996	C	A	0.045	0.012	2.14E-04	0.069	0.024	3.21E-03	0.045	0.012	2.14E-04	0.017	0.031	5.84E-01
rs4472800	T	G	-0.008	0.010	4.27E-01	-0.019	0.020	3.30E-01	-0.008	0.010	4.27E-01	-0.013	0.026	6.27E-01
rs4627713	C	T	-0.049	0.032	1.21E-01	-0.032	0.067	6.27E-01	-0.049	0.032	1.21E-01	-0.171	0.086	4.73E-02
rs4635681	G	A	-0.017	0.014	2.25E-01	-0.045	0.027	9.11E-02	-0.017	0.014	2.25E-01	-0.017	0.034	6.10E-01
rs4680	A	G	0.003	0.010	7.89E-01	-0.021	0.020	2.89E-01	0.003	0.010	7.89E-01	0.049	0.026	5.44E-02
rs4752689	A	G	-0.030	0.010	3.38E-03	0.015	0.019	4.21E-01	-0.030	0.010	3.38E-03	-0.039	0.025	1.14E-01
rs475591	C	T	0.008	0.010	4.36E-01	0.001	0.020	9.75E-01	0.008	0.010	4.36E-01	0.020	0.026	4.36E-01
rs4782286	A	G	-0.006	0.013	6.41E-01	-0.020	0.024	4.06E-01	-0.006	0.013	6.41E-01	-0.003	0.031	9.22E-01
rs4800670	C	G	-0.018	0.010	8.20E-02	-0.009	0.020	6.28E-01	-0.018	0.010	8.20E-02	-0.024	0.025	3.42E-01
rs4819021	C	T	-0.001	0.010	9.50E-01	-0.006	0.021	7.90E-01	-0.001	0.010	9.50E-01	-0.007	0.027	8.06E-01
rs4858697	G	A	-0.008	0.010	4.30E-01	-0.002	0.019	9.35E-01	-0.008	0.010	4.30E-01	-0.040	0.025	1.10E-01
rs4865956	A	T	-0.002	0.011	8.22E-01	-0.014	0.021	4.93E-01	-0.002	0.011	8.22E-01	0.040	0.027	1.41E-01
rs4980067	A	C	0.006	0.010	5.42E-01	-0.008	0.019	6.91E-01	0.006	0.010	5.42E-01	-0.007	0.025	7.85E-01
rs4980826	A	C	-0.013	0.010	2.02E-01	0.005	0.019	8.06E-01	-0.013	0.010	2.02E-01	-0.017	0.025	4.99E-01
rs4985148	C	A	0.000	0.011	9.92E-01	-0.038	0.021	7.47E-02	0.000	0.011	9.92E-01	0.024	0.027	3.84E-01
rs508347	C	T	-0.019	0.011	7.78E-02	-0.019	0.021	3.69E-01	-0.019	0.011	7.78E-02	-0.028	0.027	3.04E-01
rs509035	A	G	-0.004	0.011	6.77E-01	0.015	0.020	4.53E-01	-0.004	0.011	6.77E-01	0.008	0.025	7.38E-01
rs545608	C	G	-0.005	0.012	7.00E-01	0.044	0.024	6.55E-02	-0.005	0.012	7.00E-01	0.001	0.031	9.81E-01

rs55681913	C	T	-0.012	0.018	5.00E-01	0.019	0.035	5.85E-01	-0.012	0.018	5.00E-01	-0.030	0.044	4.88E-01
rs55726687	A	G	0.007	0.013	5.77E-01	0.027	0.024	2.74E-01	0.007	0.013	5.77E-01	0.044	0.031	1.52E-01
rs55758152	A	G	0.004	0.012	7.49E-01	0.009	0.023	6.99E-01	0.004	0.012	7.49E-01	-0.060	0.030	4.18E-02
rs55831773	T	C	-0.018	0.013	1.76E-01	-0.003	0.025	9.10E-01	-0.018	0.013	1.76E-01	0.047	0.033	1.53E-01
rs55872725	T	C	0.011	0.010	3.04E-01	0.015	0.019	4.49E-01	0.011	0.010	3.04E-01	0.033	0.025	1.79E-01
rs57126421	G	A	-0.022	0.012	7.03E-02	0.006	0.024	7.85E-01	-0.022	0.012	7.03E-02	0.009	0.030	7.54E-01
rs57153895	G	A	-0.007	0.010	4.61E-01	0.006	0.020	7.48E-01	-0.007	0.010	4.61E-01	-0.032	0.025	1.99E-01
rs5742915	C	T	0.009	0.011	4.00E-01	-0.009	0.020	6.43E-01	0.009	0.011	4.00E-01	-0.001	0.027	9.62E-01
rs5752989	A	G	0.006	0.010	5.30E-01	0.021	0.020	2.83E-01	0.006	0.010	5.30E-01	-0.019	0.025	4.45E-01
rs57635800	A	G	0.041	0.011	2.15E-04	0.053	0.021	1.19E-02	0.041	0.011	2.15E-04	0.037	0.027	1.70E-01
rs57636386	C	T	0.023	0.018	1.97E-01	0.099	0.034	4.00E-03	0.023	0.018	1.97E-01	-0.076	0.046	1.04E-01
rs58857770	G	C	0.002	0.010	8.37E-01	-0.031	0.019	1.10E-01	0.002	0.010	8.37E-01	0.102	0.025	4.60E-05
rs599004	T	C	-0.004	0.011	7.16E-01	-0.008	0.022	7.12E-01	-0.004	0.011	7.16E-01	0.016	0.028	5.57E-01
rs59985551	T	C	0.007	0.012	5.35E-01	-0.024	0.023	2.89E-01	0.007	0.012	5.35E-01	-0.038	0.029	1.87E-01
rs60077625	A	G	0.001	0.011	9.07E-01	0.013	0.020	5.15E-01	0.001	0.011	9.07E-01	-0.019	0.027	4.87E-01
rs6032233	C	T	0.002	0.013	8.86E-01	-0.026	0.024	2.84E-01	0.002	0.013	8.86E-01	-0.031	0.031	3.27E-01
rs607472	G	C	0.003	0.011	8.15E-01	-0.015	0.020	4.34E-01	0.003	0.011	8.15E-01	0.001	0.026	9.66E-01
rs60804050	A	G	0.003	0.011	7.87E-01	0.005	0.022	8.32E-01	0.003	0.011	7.87E-01	-0.002	0.028	9.54E-01
rs6081869	G	T	0.006	0.011	5.80E-01	0.014	0.021	5.15E-01	0.006	0.011	5.80E-01	0.049	0.027	7.48E-02
rs6085659	G	A	0.001	0.010	9.53E-01	-0.039	0.020	4.64E-02	0.001	0.010	9.53E-01	-0.007	0.025	7.76E-01
rs6142059	C	T	0.014	0.011	1.93E-01	-0.009	0.019	6.28E-01	0.014	0.011	1.93E-01	-0.008	0.025	7.46E-01
rs61729527	T	C	-0.002	0.026	9.39E-01	-0.044	0.052	3.97E-01	-0.002	0.026	9.39E-01	0.034	0.066	6.11E-01
rs61862463	G	A	-0.019	0.036	6.05E-01	0.052	0.078	5.06E-01	-0.019	0.036	6.05E-01	-0.039	0.103	7.07E-01
rs61941043 ^o	T	A	0.104	0.064	1.07E-01				0.104	0.064	1.07E-01	0.255	0.177	1.51E-01
rs61954257	G	A	-0.011	0.010	2.95E-01	-0.034	0.019	8.11E-02	-0.011	0.010	2.95E-01	-0.045	0.025	7.63E-02
rs62070645	A	C	0.004	0.011	7.00E-01	-0.001	0.022	9.71E-01	0.004	0.011	7.00E-01	-0.022	0.028	4.38E-01
rs62107261	C	T	0.020	0.030	5.20E-01	0.000	0.059	9.97E-01	0.020	0.030	5.20E-01	0.096	0.075	2.00E-01
rs62246314	A	G	0.016	0.016	3.40E-01	0.009	0.032	7.67E-01	0.016	0.016	3.40E-01	0.052	0.040	1.93E-01
rs62275882	A	G	0.014	0.014	3.11E-01	-0.010	0.028	7.13E-01	0.014	0.014	3.11E-01	0.022	0.035	5.28E-01
rs6235	G	C	0.006	0.012	5.86E-01	-0.015	0.023	5.06E-01	0.006	0.012	5.86E-01	0.009	0.029	7.58E-01
rs62515437	T	G	0.008	0.012	4.96E-01	0.003	0.024	9.07E-01	0.008	0.012	4.96E-01	0.019	0.030	5.27E-01
rs62621197	T	C	0.047	0.038	2.18E-01	-0.001	0.069	9.85E-01	0.047	0.038	2.18E-01	0.103	0.089	2.50E-01
rs62621812	A	G	0.062	0.038	1.04E-01	-0.051	0.080	5.23E-01	0.062	0.038	1.04E-01	0.176	0.098	7.38E-02
rs6445198	T	G	-0.005	0.010	5.99E-01	-0.001	0.019	9.44E-01	-0.005	0.010	5.99E-01	-0.013	0.025	6.02E-01
rs6505781	C	G	-0.006	0.011	5.88E-01	0.018	0.022	4.00E-01	-0.006	0.011	5.88E-01	0.018	0.028	5.18E-01
rs6570509	T	G	-0.003	0.011	8.01E-01	-0.035	0.021	9.51E-02	-0.003	0.011	8.01E-01	0.036	0.027	1.79E-01
rs658957	C	T	0.008	0.013	5.68E-01	-0.004	0.026	8.91E-01	0.008	0.013	5.68E-01	-0.047	0.032	1.42E-01
rs662115	T	C	-0.005	0.010	6.56E-01	0.039	0.019	4.12E-02	-0.005	0.010	6.56E-01	-0.034	0.025	1.63E-01
rs66922415	G	A	0.004	0.012	7.08E-01	0.017	0.023	4.55E-01	0.004	0.012	7.08E-01	-0.005	0.029	8.76E-01
rs67551338	T	C	0.013	0.021	5.22E-01	0.004	0.042	9.28E-01	0.013	0.021	5.22E-01	-0.064	0.055	2.47E-01
rs6762578	A	G	-0.025	0.012	4.44E-02	0.005	0.024	8.22E-01	-0.025	0.012	4.44E-02	-0.053	0.030	7.72E-02
rs6800021	A	G	0.008	0.010	4.23E-01	0.001	0.020	9.62E-01	0.008	0.010	4.23E-01	0.002	0.025	9.30E-01
rs6821305	C	A	0.002	0.010	8.24E-01	0.023	0.019	2.20E-01	0.002	0.010	8.24E-01	-0.047	0.025	5.88E-02
rs6873192	G	A	0.023	0.010	2.11E-02	0.024	0.019	2.05E-01	0.023	0.010	2.11E-02	-0.004	0.024	8.56E-01
rs6874142	G	T	-0.006	0.021	7.76E-01	0.051	0.039	1.92E-01	-0.006	0.021	7.76E-01	0.026	0.051	6.20E-01
rs6902789	A	G	-0.019	0.010	7.58E-02	-0.001	0.019	9.73E-01	-0.019	0.010	7.58E-02	-0.028	0.026	2.83E-01
rs6975015	A	G	-0.005	0.016	7.41E-01	0.017	0.031	5.77E-01	-0.005	0.016	7.41E-01	-0.069	0.039	7.68E-02
rs7047694	A	G	0.014	0.010	1.58E-01	0.039	0.020	5.41E-02	0.014	0.010	1.58E-01	0.033	0.026	2.04E-01
rs7077783	T	C	-0.016	0.014	2.43E-01	-0.040	0.027	1.41E-01	-0.016	0.014	2.43E-01	-0.013	0.035	7.14E-01
rs7080472	T	G	-0.019	0.010	6.42E-02	-0.044	0.019	2.16E-02	-0.019	0.010	6.42E-02	-0.006	0.025	7.97E-01

rs7097872	T	C	0.015	0.010	1.31E-01	0.001	0.019	9.54E-01	0.015	0.010	1.31E-01	-0.028	0.024	2.48E-01
rs7129320	A	G	-0.007	0.014	6.32E-01	-0.020	0.027	4.61E-01	-0.007	0.014	6.32E-01	-0.039	0.035	2.59E-01
rs7132908	A	G	0.002	0.011	8.30E-01	0.029	0.020	1.47E-01	0.002	0.011	8.30E-01	-0.021	0.027	4.23E-01
rs7134283	A	G	-0.005	0.011	6.54E-01	0.018	0.022	4.14E-01	-0.005	0.011	6.54E-01	-0.013	0.028	6.44E-01
rs71385734	G	T	-0.024	0.015	1.06E-01	-0.014	0.028	6.28E-01	-0.024	0.015	1.06E-01	-0.019	0.036	6.05E-01
rs7141420	T	C	0.018	0.010	7.37E-02	0.045	0.019	1.91E-02	0.018	0.010	7.37E-02	-0.021	0.025	3.89E-01
rs71414738	T	C	-0.002	0.014	8.97E-01	0.009	0.026	7.23E-01	-0.002	0.014	8.97E-01	0.022	0.033	5.15E-01
rs71484923	G	T	0.011	0.013	3.92E-01	-0.002	0.026	9.26E-01	0.011	0.013	3.92E-01	-0.020	0.033	5.33E-01
rs7148516	A	T	0.004	0.011	7.35E-01	0.007	0.021	7.35E-01	0.004	0.011	7.35E-01	0.054	0.027	4.65E-02
rs7190477	A	C	-0.012	0.011	2.65E-01	0.031	0.020	1.23E-01	-0.012	0.011	2.65E-01	-0.011	0.027	6.71E-01
rs7205337	G	A	0.017	0.013	1.74E-01	0.026	0.025	3.06E-01	0.017	0.013	1.74E-01	0.017	0.032	6.04E-01
rs7214743	G	A	0.017	0.011	1.19E-01	-0.017	0.020	3.88E-01	0.017	0.011	1.19E-01	-0.002	0.026	9.55E-01
rs7229351	A	G	0.027	0.011	1.02E-02	0.042	0.021	4.11E-02	0.027	0.011	1.02E-02	0.014	0.027	6.11E-01
rs723149	G	A				-0.002	0.020	9.37E-01				-0.006	0.025	8.22E-01
rs7235010	A	G	0.013	0.012	2.87E-01	0.034	0.024	1.53E-01	0.013	0.012	2.87E-01	0.030	0.031	3.44E-01
rs724016	G	A	0.006	0.010	5.49E-01	0.032	0.020	9.69E-02	0.006	0.010	5.49E-01	-0.028	0.025	2.69E-01
rs7250927	C	T	-0.009	0.011	4.22E-01	-0.008	0.021	7.05E-01	-0.009	0.011	4.22E-01	0.041	0.028	1.38E-01
rs72656010	C	T	-0.005	0.015	7.56E-01	-0.021	0.029	4.60E-01	-0.005	0.015	7.56E-01	-0.055	0.037	1.30E-01
rs72660086	G	T	0.001	0.012	9.09E-01	-0.004	0.023	8.55E-01	0.001	0.012	9.09E-01	-0.023	0.030	4.47E-01
rs72699866	A	G	-0.031	0.013	1.92E-02	-0.025	0.025	3.16E-01	-0.031	0.013	1.92E-02	-0.027	0.032	4.03E-01
rs72703414	G	A	0.021	0.021	3.06E-01	0.026	0.041	5.24E-01	0.021	0.021	3.06E-01	0.048	0.051	3.50E-01
rs72755233	A	G	0.019	0.019	3.19E-01	0.039	0.037	2.99E-01	0.019	0.019	3.19E-01	0.005	0.050	9.24E-01
rs72801843	A	T	0.001	0.011	9.33E-01	0.007	0.022	7.68E-01	0.001	0.011	9.33E-01	0.001	0.029	9.80E-01
rs72828807	A	G	-0.011	0.011	3.11E-01	-0.011	0.022	6.14E-01	-0.011	0.011	3.11E-01	-0.051	0.028	6.96E-02
rs72885917	C	A	0.019	0.012	1.00E-01	0.015	0.022	4.99E-01	0.019	0.012	1.00E-01	-0.032	0.029	2.75E-01
rs73052033	C	T	-0.026	0.013	4.19E-02	-0.013	0.025	5.94E-01	-0.026	0.013	4.19E-02	-0.012	0.032	7.13E-01
rs730536	C	G	0.026	0.012	2.65E-02	0.001	0.022	9.59E-01	0.026	0.012	2.65E-02	0.018	0.028	5.35E-01
rs7305516	G	A	-0.004	0.010	6.70E-01	0.017	0.019	3.86E-01	-0.004	0.010	6.70E-01	-0.012	0.025	6.31E-01
rs73175572	G	A	-0.035	0.016	2.82E-02	-0.049	0.032	1.28E-01	-0.035	0.016	2.82E-02	0.048	0.040	2.31E-01
rs73619441	G	T	0.022	0.015	1.27E-01	0.057	0.028	4.36E-02	0.022	0.015	1.27E-01	0.061	0.036	8.91E-02
rs73966422	G	C	-0.005	0.015	7.54E-01	-0.025	0.029	3.94E-01	-0.005	0.015	7.54E-01	0.043	0.036	2.36E-01
rs74048171	A	C	-0.011	0.011	3.36E-01	-0.004	0.022	8.42E-01	-0.011	0.011	3.36E-01	-0.050	0.028	7.56E-02
rs74494415	T	C	-0.029	0.025	2.48E-01	-0.013	0.051	8.00E-01	-0.029	0.025	2.48E-01	0.021	0.060	7.31E-01
rs74565893	T	C	-0.086	0.044	5.28E-02	-0.071	0.088	4.19E-01	-0.086	0.044	5.28E-02	0.017	0.103	8.65E-01
rs7460093	A	G	0.012	0.011	2.70E-01	0.027	0.020	1.84E-01	0.012	0.011	2.70E-01	0.004	0.026	8.68E-01
rs748457	A	G	0.001	0.010	9.58E-01	-0.022	0.020	2.71E-01	0.001	0.010	9.58E-01	-0.002	0.025	9.52E-01
rs7559547	T	C	0.011	0.013	4.16E-01	0.006	0.025	8.16E-01	0.011	0.013	4.16E-01	0.034	0.032	2.97E-01
rs7584391	A	G	-0.002	0.013	8.68E-01	0.003	0.025	8.96E-01	-0.002	0.013	8.68E-01	-0.004	0.032	9.11E-01
rs7624428	A	T	-0.005	0.012	6.93E-01	0.000	0.022	9.97E-01	-0.005	0.012	6.93E-01	0.003	0.028	9.13E-01
rs7628343	C	T	-0.016	0.017	3.61E-01	0.002	0.033	9.65E-01	-0.016	0.017	3.61E-01	-0.036	0.042	3.90E-01
rs76798800	T	G	0.017	0.011	1.32E-01	0.022	0.021	3.12E-01	0.017	0.011	1.32E-01	-0.004	0.028	8.92E-01
rs768023	A	G	-0.003	0.011	7.64E-01	0.010	0.020	6.11E-01	-0.003	0.011	7.64E-01	0.008	0.026	7.42E-01
rs76895963	G	T	-0.060	0.054	2.73E-01	-0.039	0.113	7.28E-01	-0.060	0.054	2.73E-01	-0.191	0.147	1.93E-01
rs7709645	C	G	0.020	0.010	4.37E-02	-0.008	0.019	6.81E-01	0.020	0.010	4.37E-02	0.025	0.024	3.00E-01
rs7728690	T	C	-0.017	0.011	1.25E-01	-0.005	0.020	8.12E-01	-0.017	0.011	1.25E-01	0.004	0.026	8.69E-01
rs7730885	G	A	-0.004	0.011	7.38E-01	0.015	0.020	4.46E-01	-0.004	0.011	7.38E-01	-0.033	0.026	2.13E-01
rs7731023	G	A	0.012	0.010	2.34E-01	0.003	0.019	8.66E-01	0.012	0.010	2.34E-01	0.021	0.025	4.00E-01
rs77392989	C	T	-0.008	0.013	5.25E-01	0.018	0.027	5.11E-01	-0.008	0.013	5.25E-01	-0.022	0.033	5.03E-01
rs7740107	A	T	0.026	0.012	2.54E-02	-0.004	0.022	8.54E-01	0.026	0.012	2.54E-02	0.068	0.029	1.66E-02
rs7781964	A	G	0.002	0.014	8.93E-01	0.022	0.024	3.46E-01	0.002	0.014	8.93E-01	-0.019	0.031	5.54E-01

rs7815955	T	A	-0.019	0.013	1.21E-01	-0.032	0.024	1.86E-01	-0.019	0.013	1.21E-01	-0.010	0.031	7.55E-01
rs78378222	G	T	-0.001	0.048	9.77E-01	-0.046	0.109	6.73E-01	-0.001	0.048	9.77E-01	-0.003	0.132	9.80E-01
rs78812993	C	G	0.024	0.025	3.40E-01	-0.015	0.049	7.67E-01	0.024	0.025	3.40E-01	-0.031	0.060	6.01E-01
rs78818722	T	C	0.000	0.026	9.97E-01	0.015	0.049	7.62E-01	0.000	0.026	9.97E-01	0.020	0.070	7.78E-01
rs78964719	T	G	0.016	0.019	3.93E-01	0.054	0.036	1.38E-01	0.016	0.019	3.93E-01	0.023	0.047	6.23E-01
rs7910087	C	T	0.009	0.010	3.60E-01	0.000	0.020	9.93E-01	0.009	0.010	3.60E-01	-0.014	0.025	5.67E-01
rs79266482	T	C	-0.001	0.013	9.57E-01	-0.004	0.025	8.77E-01	-0.001	0.013	9.57E-01	-0.018	0.032	5.64E-01
rs7952436	T	C	-0.007	0.023	7.77E-01	0.021	0.045	6.43E-01	-0.007	0.023	7.77E-01	0.040	0.058	4.85E-01
rs7977788	A	G	0.006	0.012	6.42E-01	-0.034	0.024	1.47E-01	0.006	0.012	6.42E-01	-0.010	0.029	7.26E-01
rs79883557	T	C	-0.015	0.019	4.37E-01	-0.042	0.038	2.63E-01	-0.015	0.019	4.37E-01	-0.030	0.047	5.18E-01
rs7994814	T	C	0.006	0.013	6.66E-01	0.060	0.025	1.47E-02	0.006	0.013	6.66E-01	-0.032	0.032	3.22E-01
rs8007058	A	G	0.012	0.012	3.22E-01	-0.025	0.024	2.90E-01	0.012	0.012	3.22E-01	0.023	0.030	4.50E-01
rs8007644	A	G	0.010	0.010	3.23E-01	-0.009	0.019	6.56E-01	0.010	0.010	3.23E-01	0.040	0.025	1.09E-01
rs8059189	A	G	-0.001	0.011	9.66E-01	-0.043	0.020	3.15E-02	-0.001	0.011	9.66E-01	-0.015	0.026	5.64E-01
rs8123912	C	G	0.017	0.012	1.52E-01	-0.006	0.024	8.11E-01	0.017	0.012	1.52E-01	0.033	0.030	2.67E-01
rs815341	G	A	-0.017	0.012	1.60E-01	-0.017	0.022	4.46E-01	-0.017	0.012	1.60E-01	-0.028	0.028	3.17E-01
rs836519	T	C	-0.009	0.012	4.47E-01	-0.030	0.024	2.05E-01	-0.009	0.012	4.47E-01	0.005	0.030	8.82E-01
rs9257319	G	T	-0.009	0.022	6.91E-01	-0.027	0.043	5.29E-01	-0.009	0.022	6.91E-01	0.023	0.056	6.77E-01
rs9314420	G	A	0.014	0.011	1.94E-01	0.006	0.021	7.78E-01	0.014	0.011	1.94E-01	0.058	0.026	2.68E-02
rs9317002	A	C	-0.016	0.010	1.23E-01	0.018	0.019	3.55E-01	-0.016	0.010	1.23E-01	-0.032	0.025	1.96E-01
rs931874	T	C	0.026	0.011	1.50E-02	0.026	0.020	1.81E-01	0.026	0.011	1.50E-02	0.019	0.026	4.52E-01
rs9327336	C	T	0.005	0.011	6.16E-01	-0.008	0.020	7.12E-01	0.005	0.011	6.16E-01	0.008	0.026	7.76E-01
rs933807	C	G	-0.008	0.010	4.02E-01	-0.011	0.020	5.83E-01	-0.008	0.010	4.02E-01	-0.016	0.024	5.05E-01
rs9343977	T	C	-0.009	0.010	3.85E-01	-0.039	0.019	4.03E-02	-0.009	0.010	3.85E-01	-0.006	0.024	8.14E-01
rs9379084	A	G	-0.025	0.017	1.53E-01	0.010	0.034	7.60E-01	-0.025	0.017	1.53E-01	-0.020	0.043	6.36E-01
rs9379130	C	G	0.006	0.010	5.28E-01	-0.011	0.019	5.68E-01	0.006	0.010	5.28E-01	0.054	0.024	2.70E-02
rs9381350	A	T	-0.020	0.010	5.50E-02	-0.035	0.020	7.96E-02	-0.020	0.010	5.50E-02	-0.017	0.026	5.05E-01
rs946197	C	G	0.017	0.012	1.72E-01	0.030	0.023	2.01E-01	0.017	0.012	1.72E-01	0.002	0.030	9.52E-01
rs9480947	G	C	-0.006	0.010	5.37E-01	0.004	0.019	8.53E-01	-0.006	0.010	5.37E-01	-0.031	0.025	2.02E-01
rs9512661	T	C	0.005	0.010	6.27E-01	-0.013	0.020	5.17E-01	0.005	0.010	6.27E-01	0.046	0.025	6.78E-02
rs9540493	G	A	-0.010	0.010	3.41E-01	0.022	0.020	2.53E-01	-0.010	0.010	3.41E-01	-0.038	0.025	1.30E-01
rs9788443	C	T	0.003	0.025	9.15E-01	0.025	0.048	6.07E-01	0.003	0.025	9.15E-01	0.020	0.061	7.42E-01
rs981002	A	T	0.009	0.012	4.36E-01	0.028	0.022	2.09E-01	0.009	0.012	4.36E-01	-0.011	0.028	6.96E-01
rs9826759	T	C	0.008	0.010	4.51E-01	0.012	0.020	5.38E-01	0.008	0.010	4.51E-01	0.025	0.025	3.28E-01
rs9861443	C	A	-0.011	0.012	3.31E-01	-0.027	0.022	2.24E-01	-0.011	0.012	3.31E-01	0.009	0.028	7.61E-01
rs9882731	C	G	0.001	0.010	9.36E-01	0.003	0.020	8.88E-01	0.001	0.010	9.36E-01	0.020	0.026	4.29E-01
rs9915532	G	A	-0.005	0.013	7.15E-01	-0.003	0.025	9.16E-01	-0.005	0.013	7.15E-01	-0.007	0.032	8.21E-01
rs9925273	G	A	-0.001	0.013	9.49E-01	0.035	0.025	1.53E-01	-0.001	0.013	9.49E-01	0.013	0.032	6.77E-01
rs9951619	G	T	-0.003	0.012	8.16E-01	0.023	0.023	3.07E-01	-0.003	0.012	8.16E-01	-0.037	0.029	2.04E-01
rs9960619	T	C	-0.017	0.011	1.16E-01	0.008	0.020	6.74E-01	-0.017	0.011	1.16E-01	-0.061	0.026	2.01E-02
rs9985795	C	T	-0.013	0.010	2.09E-01	-0.002	0.019	9.33E-01	-0.013	0.010	2.09E-01	-0.014	0.025	5.88E-01

Notes: ° Means proxy snp used in several strokes.

Table 6S. The association Information of GSL-associated SNPs with Several Strokes

SNP	EA	OA	AIS			CES			SVS			LAS		
			Beta	SE	P value	Beta	SE	P value	Beta	SE	P value	Beta	SE	P value
rs10097417	G	A	0.020	0.014	1.51E-01	0.032	0.026	2.13E-01	0.045	0.031	1.42E-01	0.057	0.033	8.28E-02
rs10144445	G	C	-0.005	0.010	6.65E-01	-0.030	0.020	1.20E-01	0.003	0.024	9.15E-01	-0.018	0.026	4.76E-01
rs10176878	C	T	0.018	0.013	1.61E-01	0.019	0.025	4.49E-01	0.065	0.030	2.99E-02	0.003	0.033	9.20E-01
rs10205394	C	G	-0.020	0.012	1.04E-01	-0.010	0.023	6.75E-01	-0.036	0.028	1.97E-01	-0.042	0.030	1.65E-01
rs10403906	A	G	0.009	0.010	3.81E-01	-0.007	0.019	7.04E-01	0.019	0.023	4.06E-01	-0.004	0.025	8.70E-01

rs1044299	T	C	0.005	0.010	6.32E-01	0.024	0.019	2.08E-01	0.018	0.023	4.27E-01	-0.005	0.025	8.56E-01
rs10786706	T	C	0.007	0.010	5.11E-01	-0.009	0.019	6.33E-01	0.008	0.024	7.54E-01	-0.041	0.026	1.15E-01
rs10788958	G	C	-0.019	0.011	6.81E-02	0.008	0.020	7.01E-01	-0.041	0.024	8.89E-02	0.006	0.026	8.21E-01
rs10821939	A	G	0.001	0.010	9.52E-01	-0.013	0.019	5.08E-01	0.061	0.023	8.98E-03	0.037	0.025	1.39E-01
rs10831903	T	C	-0.005	0.011	6.18E-01	-0.020	0.020	3.15E-01	-0.008	0.024	7.36E-01	-0.010	0.026	6.90E-01
rs10846071	T	C	-0.011	0.011	3.10E-01	-0.005	0.019	8.11E-01	0.020	0.024	3.91E-01	-0.025	0.025	3.32E-01
rs10934857	A	G	-0.008	0.012	4.81E-01	-0.022	0.022	3.20E-01	0.012	0.026	6.59E-01	-0.003	0.029	9.30E-01
rs10988217	G	A	-0.008	0.010	4.07E-01	-0.005	0.020	7.98E-01	-0.014	0.024	5.57E-01	0.001	0.025	9.67E-01
rs11002322	T	G	0.004	0.011	6.83E-01	-0.001	0.020	9.46E-01	-0.004	0.024	8.76E-01	0.016	0.026	5.33E-01
rs11003014	G	A	-0.008	0.014	5.54E-01	0.021	0.026	4.11E-01	-0.029	0.031	3.65E-01	0.012	0.033	7.13E-01
rs11076004	A	G	-0.011	0.011	3.34E-01	-0.007	0.019	7.10E-01	-0.001	0.023	9.56E-01	-0.010	0.025	6.93E-01
rs11111267	G	A	0.000	0.013	9.97E-01	0.023	0.025	3.65E-01	0.010	0.030	7.39E-01	0.023	0.033	4.72E-01
rs11121542	A	G	-0.013	0.015	3.92E-01	-0.046	0.030	1.25E-01	-0.116	0.037	1.51E-03	0.024	0.038	5.34E-01
rs11125803	T	C	0.014	0.013	2.66E-01	0.045	0.024	6.15E-02	0.006	0.027	8.24E-01	0.052	0.031	9.23E-02
rs11168357	A	G	0.012	0.012	3.23E-01	0.011	0.023	6.30E-01	0.017	0.027	5.24E-01	0.018	0.029	5.47E-01
rs11204664	C	T	-0.006	0.010	5.81E-01	0.009	0.020	6.61E-01	-0.006	0.024	8.01E-01	0.013	0.026	6.25E-01
rs11243202	C	T	0.006	0.010	5.44E-01	-0.020	0.019	2.83E-01	0.008	0.023	7.38E-01	0.052	0.024	3.23E-02
rs112485536	T	C	0.012	0.019	5.20E-01	0.081	0.038	2.99E-02	0.032	0.045	4.83E-01	0.000	0.050	9.95E-01
rs113315602	C	A	-0.054	0.056	3.35E-01	-0.146	0.102	1.54E-01	-0.191	0.133	1.52E-01	0.122	0.123	3.20E-01
rs113434679	A	C	0.014	0.014	3.29E-01	0.012	0.027	6.66E-01	0.099	0.031	1.43E-03	0.004	0.036	9.03E-01
rs113918482	G	A	0.016	0.012	1.60E-01	0.013	0.023	5.72E-01	0.027	0.028	3.29E-01	0.064	0.029	2.84E-02
rs116409670	T	C	-0.012	0.019	5.30E-01	0.023	0.036	5.29E-01	-0.014	0.044	7.47E-01	0.082	0.046	7.87E-02
rs11642954	A	G	-0.009	0.012	4.85E-01	-0.042	0.024	8.68E-02	0.010	0.029	7.22E-01	-0.034	0.031	2.68E-01
rs11669079	T	A	0.016	0.011	1.53E-01	0.012	0.022	5.88E-01	-0.006	0.026	8.06E-01	0.018	0.029	5.28E-01
rs116922558	G	A	0.024	0.032	4.60E-01	0.050	0.061	4.18E-01	-0.008	0.079	9.20E-01	0.042	0.083	6.11E-01
rs11769549	A	T	-0.014	0.021	5.26E-01	-0.065	0.043	1.31E-01	0.010	0.050	8.44E-01	-0.006	0.053	9.16E-01
rs12316046	G	A	-0.008	0.010	4.35E-01	-0.001	0.020	9.78E-01	0.015	0.024	5.39E-01	-0.031	0.026	2.27E-01
rs12473732	T	C	-0.010	0.010	3.60E-01	-0.006	0.020	7.60E-01	-0.038	0.023	9.75E-02	-0.015	0.026	5.50E-01
rs12528131	G	A	0.015	0.010	1.37E-01	0.004	0.019	8.46E-01	0.005	0.023	8.35E-01	0.026	0.025	2.90E-01
rs12533765	G	A	0.015	0.011	1.80E-01	0.027	0.021	1.98E-01	0.019	0.025	4.66E-01	-0.015	0.027	5.74E-01
rs12673062	A	G	0.008	0.013	5.48E-01	0.047	0.026	7.49E-02	-0.031	0.032	3.35E-01	0.015	0.034	6.67E-01
rs12790261	A	C	-0.014	0.025	5.76E-01	0.011	0.046	8.07E-01	0.030	0.053	5.70E-01	0.074	0.061	2.28E-01
rs12889267	G	A	0.005	0.014	7.48E-01	0.019	0.027	4.94E-01	0.009	0.033	7.79E-01	0.039	0.035	2.60E-01
rs12906830	C	T	-0.005	0.010	5.98E-01	-0.001	0.019	9.53E-01	0.003	0.023	8.92E-01	-0.036	0.025	1.46E-01
rs12914702	A	G	-0.023	0.015	1.35E-01	-0.016	0.031	6.02E-01	-0.039	0.035	2.61E-01	-0.071	0.043	1.01E-01
rs13091492	G	A	0.002	0.010	8.32E-01	-0.016	0.019	4.09E-01	0.020	0.023	3.83E-01	0.018	0.025	4.77E-01
rs13106087	C	T	0.019	0.014	1.60E-01	0.023	0.026	3.72E-01	0.022	0.031	4.65E-01	0.024	0.034	4.76E-01
rs13107325	T	C	-0.007	0.022	7.61E-01	-0.030	0.044	4.92E-01	0.023	0.048	6.22E-01	0.021	0.053	6.97E-01
rs13146142	C	T	0.024	0.014	8.50E-02	-0.003	0.027	9.04E-01	0.090	0.033	5.88E-03	0.061	0.034	6.91E-02
rs13227429	C	T	0.019	0.010	5.83E-02	0.038	0.020	5.47E-02	0.022	0.024	3.52E-01	0.011	0.026	6.62E-01
rs13337177	T	G	-0.028	0.014	4.94E-02	-0.028	0.027	3.00E-01	0.013	0.032	6.86E-01	-0.022	0.034	5.17E-01
rs13356200	G	T	0.008	0.010	4.49E-01	-0.002	0.020	9.35E-01	0.054	0.024	2.39E-02	0.007	0.026	7.97E-01
rs143002906	T	C	0.016	0.031	6.15E-01	-0.031	0.062	6.25E-01	0.127	0.075	9.23E-02	0.109	0.074	1.40E-01
rs1434095	C	T	-0.017	0.016	2.83E-01	-0.057	0.030	5.66E-02	-0.035	0.036	3.32E-01	0.028	0.039	4.64E-01
rs1486925	C	T	0.012	0.011	2.49E-01	0.027	0.021	1.85E-01	0.019	0.025	4.33E-01	0.030	0.027	2.66E-01
rs150330307	C	T	-0.003	0.032	9.35E-01	0.054	0.062	3.87E-01	0.002	0.076	9.80E-01	-0.029	0.084	7.31E-01
rs1551042	C	A	-0.009	0.010	3.83E-01	-0.010	0.020	6.23E-01	-0.007	0.024	7.69E-01	-0.060	0.026	1.95E-02
rs1556659	T	C	0.002	0.010	8.21E-01	0.010	0.020	6.00E-01	-0.026	0.024	2.75E-01	-0.026	0.026	3.22E-01
rs1641457	G	T	0.002	0.013	8.62E-01	-0.006	0.024	8.13E-01	-0.023	0.028	4.08E-01	-0.035	0.032	2.72E-01
rs16870531	T	C	-0.005	0.012	6.57E-01	0.007	0.023	7.58E-01	0.016	0.028	5.68E-01	0.035	0.030	2.34E-01

rs16910750	C	G	-0.011	0.014	4.30E-01	-0.022	0.027	4.00E-01	0.007	0.032	8.35E-01	-0.005	0.034	8.91E-01
rs17282763	C	T	0.000	0.010	9.83E-01	0.044	0.021	3.37E-02	-0.036	0.025	1.56E-01	0.003	0.027	9.26E-01
rs17466480	G	A	0.005	0.010	6.17E-01	0.004	0.020	8.27E-01	-0.030	0.024	2.06E-01	-0.017	0.025	5.07E-01
rs17630248	C	T	0.006	0.010	5.55E-01	0.018	0.020	3.61E-01	-0.052	0.024	2.96E-02	0.032	0.025	2.00E-01
rs181766	C	T	0.001	0.011	9.53E-01	0.000	0.021	9.92E-01	-0.032	0.025	2.00E-01	-0.003	0.028	9.13E-01
rs185320691	C	G	0.034	0.053	5.23E-01	-0.014	0.120	9.08E-01	0.119	0.121	3.22E-01	0.220	0.148	1.37E-01
rs1884447	A	G	-0.009	0.010	4.02E-01	0.022	0.020	2.77E-01	0.001	0.024	9.84E-01	0.017	0.025	4.96E-01
rs1981612	A	C	0.001	0.011	8.91E-01	-0.037	0.020	6.28E-02	0.019	0.024	4.37E-01	0.008	0.026	7.60E-01
rs2038760	T	C	-0.004	0.013	7.40E-01	-0.015	0.025	5.50E-01	-0.004	0.031	8.96E-01	-0.021	0.033	5.16E-01
rs217181	T	C	-0.010	0.013	4.64E-01	-0.013	0.025	5.95E-01	-0.019	0.030	5.37E-01	0.000	0.032	9.92E-01
rs2359239	T	C	-0.007	0.010	5.06E-01	0.001	0.019	9.67E-01	-0.039	0.023	9.64E-02	-0.022	0.025	3.76E-01
rs2431112	A	G	0.012	0.010	2.28E-01	0.004	0.019	8.40E-01	0.018	0.023	4.44E-01	0.023	0.025	3.61E-01
rs2532111	G	A	-0.015	0.011	1.47E-01	0.007	0.020	7.22E-01	-0.045	0.024	5.98E-02	-0.010	0.026	7.12E-01
rs2587505	C	T	-0.003	0.010	8.07E-01	-0.025	0.020	2.11E-01	-0.049	0.024	3.88E-02	-0.003	0.026	9.23E-01
rs2631360	A	G	-0.012	0.010	2.33E-01	0.006	0.019	7.49E-01	-0.022	0.023	3.31E-01	-0.007	0.024	7.74E-01
rs2789514	A	G	0.003	0.015	8.19E-01	-0.011	0.029	7.21E-01	0.070	0.035	4.72E-02	-0.004	0.037	9.10E-01
rs2800789	C	A	0.004	0.010	6.75E-01	0.013	0.019	4.78E-01	-0.010	0.023	6.58E-01	0.045	0.025	6.54E-02
rs2850379	A	C	0.006	0.011	5.60E-01	0.025	0.019	1.98E-01	0.015	0.023	5.26E-01	0.011	0.025	6.74E-01
rs28542042	T	C	-0.017	0.011	1.35E-01	0.005	0.022	8.17E-01	-0.062	0.026	1.58E-02	-0.018	0.028	5.11E-01
rs2871865	G	C	0.006	0.017	7.25E-01	-0.026	0.034	4.46E-01	0.053	0.039	1.79E-01	0.050	0.042	2.36E-01
rs2871960	C	A	0.008	0.010	4.53E-01	0.029	0.020	1.39E-01	-0.022	0.023	3.48E-01	-0.022	0.025	3.75E-01
rs2974438	A	G	-0.025	0.012	4.10E-02	-0.021	0.024	3.78E-01	-0.031	0.028	2.61E-01	-0.002	0.030	9.61E-01
rs3118903	A	G	0.009	0.012	4.28E-01	-0.011	0.023	6.36E-01	-0.010	0.027	7.20E-01	0.034	0.029	2.48E-01
rs34030812	C	T	0.002	0.010	8.70E-01	0.000	0.020	9.86E-01	-0.004	0.024	8.77E-01	-0.037	0.025	1.46E-01
rs34587452	C	G	0.014	0.013	3.02E-01	0.017	0.026	5.11E-01	0.007	0.030	8.18E-01	0.004	0.033	8.98E-01
rs34722008	A	G	0.004	0.011	7.19E-01	-0.012	0.021	5.74E-01	-0.009	0.024	7.02E-01	-0.026	0.026	3.31E-01
rs34845616	A	G	-0.003	0.012	7.90E-01	0.002	0.024	9.40E-01	0.035	0.029	2.25E-01	-0.075	0.032	2.17E-02
rs35054365	A	T	-0.008	0.010	4.24E-01	0.013	0.019	4.92E-01	-0.024	0.023	3.07E-01	-0.019	0.025	4.53E-01
rs35175534	C	A	-0.007	0.051	8.87E-01	-0.112	0.122	3.58E-01	0.023	0.163	8.87E-01	-0.177	0.180	3.24E-01
rs35236379	T	G	-0.003	0.014	8.50E-01	0.004	0.028	8.78E-01	-0.012	0.034	7.21E-01	0.033	0.036	3.56E-01
rs35609019	C	G	0.005	0.011	6.21E-01	0.015	0.021	4.80E-01	0.024	0.025	3.25E-01	0.037	0.027	1.59E-01
rs3814877	T	G	-0.015	0.010	1.42E-01	-0.048	0.019	1.27E-02	0.010	0.023	6.69E-01	-0.017	0.024	4.99E-01
rs3819121	C	T	0.023	0.011	3.11E-02	0.056	0.020	4.58E-03	0.010	0.024	6.74E-01	0.040	0.025	1.13E-01
rs3959716	G	C	0.012	0.010	2.32E-01	-0.024	0.019	2.06E-01	0.048	0.023	3.57E-02	0.049	0.025	4.88E-02
rs4121165	A	G	-0.025	0.012	4.55E-02	-0.031	0.024	1.93E-01	0.009	0.028	7.56E-01	-0.005	0.031	8.68E-01
rs41271299	T	C	-0.007	0.032	8.25E-01	0.135	0.062	2.96E-02	0.024	0.071	7.31E-01	-0.006	0.084	9.42E-01
rs4308051	G	T	0.012	0.012	3.12E-01	0.044	0.024	6.54E-02	0.009	0.027	7.37E-01	0.028	0.030	3.47E-01
rs4335354	A	C	0.004	0.011	6.87E-01	0.017	0.021	4.18E-01	0.023	0.025	3.57E-01	0.001	0.027	9.57E-01
rs4398863	C	G	-0.005	0.011	6.68E-01	-0.049	0.021	2.15E-02	-0.002	0.026	9.36E-01	0.007	0.028	7.93E-01
rs4498020	A	C	-0.012	0.011	3.03E-01	0.002	0.022	9.14E-01	-0.025	0.026	3.40E-01	0.002	0.028	9.37E-01
rs4575361	T	A	-0.015	0.011	1.61E-01	-0.021	0.020	2.99E-01	-0.051	0.025	3.96E-02	-0.050	0.026	5.71E-02
rs4621706	T	C	-0.007	0.010	5.01E-01	-0.018	0.019	3.47E-01	0.001	0.023	9.74E-01	-0.005	0.025	8.49E-01
rs4677601	G	A	-0.007	0.010	5.06E-01	-0.025	0.019	1.80E-01	0.002	0.023	9.20E-01	0.028	0.025	2.60E-01
rs4713506	A	G	0.018	0.014	2.10E-01	0.023	0.026	3.94E-01	0.032	0.032	3.20E-01	0.030	0.033	3.65E-01
rs4737446	T	G	-0.008	0.011	4.68E-01	0.009	0.021	6.61E-01	-0.016	0.026	5.23E-01	-0.023	0.027	3.99E-01
rs4739739	G	A	-0.007	0.010	4.78E-01	-0.028	0.020	1.62E-01	-0.018	0.024	4.57E-01	0.008	0.025	7.68E-01
rs4811040	G	C	-0.005	0.011	6.58E-01	0.016	0.022	4.69E-01	-0.018	0.026	5.00E-01	0.033	0.028	2.36E-01
rs4930236	A	C	0.003	0.014	8.27E-01	0.041	0.027	1.35E-01	0.005	0.031	8.82E-01	0.001	0.034	9.76E-01
rs4962700	G	C	-0.005	0.011	6.52E-01	-0.023	0.022	2.86E-01	0.002	0.026	9.54E-01	0.007	0.028	8.02E-01
rs55681913	C	T	-0.012	0.018	5.00E-01	0.019	0.035	5.85E-01	-0.056	0.046	2.17E-01	-0.030	0.044	4.88E-01

rs560603239	T	C	0.001	0.011	9.24E-01	0.002	0.020	9.36E-01	0.027	0.024	2.71E-01	-0.007	0.026	7.94E-01
rs56338231	G	A	0.003	0.011	8.10E-01	0.008	0.022	7.29E-01	0.044	0.026	9.14E-02	0.007	0.028	8.15E-01
rs58670122	G	A	-0.018	0.015	2.40E-01	-0.011	0.029	7.18E-01	0.005	0.034	8.88E-01	0.015	0.037	6.82E-01
rs59116179	T	C	-0.016	0.011	1.16E-01	0.007	0.020	7.29E-01	-0.065	0.024	7.50E-03	-0.020	0.026	4.34E-01
rs6006984	C	T	0.006	0.011	5.74E-01	-0.035	0.021	1.02E-01	0.027	0.025	2.81E-01	0.015	0.027	5.75E-01
rs61286123	C	T	0.013	0.012	2.76E-01	0.001	0.023	9.80E-01	-0.023	0.028	4.12E-01	0.005	0.030	8.79E-01
rs61389091	T	C	-0.011	0.026	6.84E-01	-0.035	0.054	5.19E-01	0.004	0.064	9.48E-01	0.057	0.069	4.09E-01
rs61818100	C	T	0.020	0.015	1.94E-01	0.008	0.030	7.86E-01	0.057	0.036	1.08E-01	0.059	0.038	1.25E-01
rs62081464	T	C	-0.006	0.012	6.05E-01	-0.009	0.023	7.12E-01	-0.002	0.028	9.33E-01	0.044	0.030	1.42E-01
rs62253653	G	A	0.002	0.011	8.86E-01	0.006	0.021	7.75E-01	-0.012	0.026	6.33E-01	-0.023	0.028	4.02E-01
rs635538	A	G	0.007	0.018	6.83E-01	0.099	0.036	5.79E-03	0.014	0.042	7.38E-01	0.004	0.044	9.33E-01
rs6433478	C	T	-0.005	0.010	6.15E-01	0.011	0.019	5.80E-01	-0.012	0.024	6.08E-01	-0.018	0.025	4.79E-01
rs6680160	G	A	-0.007	0.010	4.72E-01	-0.017	0.020	4.01E-01	-0.023	0.024	3.38E-01	-0.003	0.026	8.96E-01
rs6689375	T	A	-0.010	0.015	4.80E-01	0.011	0.025	6.54E-01	-0.017	0.030	5.76E-01	0.005	0.032	8.64E-01
rs6802071	T	C	0.001	0.010	9.17E-01	0.007	0.019	7.13E-01	-0.017	0.024	4.82E-01	0.024	0.025	3.36E-01
rs6882168	T	C	0.007	0.011	5.21E-01	0.007	0.020	7.38E-01	-0.011	0.027	6.73E-01	0.022	0.027	4.14E-01
rs6962338	G	A	-0.026	0.026	3.23E-01	-0.052	0.051	3.06E-01	0.025	0.061	6.85E-01	0.008	0.063	9.02E-01
rs6977081	T	G	-0.015	0.011	1.42E-01	-0.013	0.020	5.21E-01	-0.033	0.024	1.71E-01	-0.017	0.026	5.20E-01
rs7026798	C	T	0.011	0.010	2.75E-01	0.018	0.019	3.56E-01	-0.009	0.023	7.06E-01	-0.024	0.025	3.43E-01
rs7124681	A	C	0.019	0.010	5.35E-02	-0.005	0.020	7.87E-01	0.063	0.023	6.23E-03	0.027	0.026	2.88E-01
rs71298370	A	G	0.011	0.020	5.88E-01	0.012	0.039	7.68E-01	-0.017	0.049	7.21E-01	0.053	0.050	2.86E-01
rs7148603	A	G	0.001	0.011	9.67E-01	0.023	0.021	2.84E-01	0.033	0.025	1.95E-01	-0.006	0.027	8.22E-01
rs7176095	G	A	-0.007	0.016	6.52E-01	0.017	0.030	5.87E-01	0.013	0.036	7.28E-01	-0.038	0.040	3.46E-01
rs7196917	G	A	0.003	0.010	8.01E-01	-0.006	0.019	7.65E-01	0.029	0.023	2.05E-01	0.028	0.024	2.42E-01
rs7197751	T	G	-0.002	0.011	8.69E-01	-0.024	0.021	2.56E-01	-0.019	0.026	4.81E-01	-0.021	0.027	4.38E-01
rs723588	C	T	0.022	0.014	1.20E-01	0.039	0.028	1.60E-01	-0.002	0.033	9.54E-01	0.040	0.035	2.56E-01
rs72977282	A	T	0.001	0.010	9.22E-01	-0.017	0.020	3.92E-01	0.044	0.025	7.66E-02	-0.030	0.027	2.65E-01
rs73307079	C	T	-0.017	0.012	1.54E-01	-0.014	0.023	5.37E-01	-0.035	0.028	2.02E-01	-0.063	0.030	3.48E-02
rs7516571	G	A	0.004	0.011	7.17E-01	0.032	0.022	1.45E-01	0.028	0.026	2.87E-01	-0.051	0.028	6.84E-02
rs75497896	C	T	-0.008	0.022	7.18E-01	0.059	0.045	1.83E-01	-0.014	0.052	7.96E-01	0.017	0.057	7.71E-01
rs755547	A	G	-0.009	0.013	4.97E-01	-0.025	0.025	3.32E-01	-0.005	0.030	8.69E-01	-0.027	0.031	3.85E-01
rs7571789	C	T	0.001	0.010	9.03E-01	-0.003	0.019	8.91E-01	-0.061	0.024	1.04E-02	0.040	0.025	1.11E-01
rs7575451	G	C	0.002	0.010	8.28E-01	0.003	0.020	9.00E-01	0.007	0.024	7.82E-01	0.019	0.026	4.49E-01
rs76895963	G	T	-0.060	0.054	2.73E-01	-0.039	0.113	7.28E-01	-0.054	0.128	6.72E-01	-0.191	0.147	1.93E-01
rs772014	G	A	-0.019	0.010	6.54E-02	-0.017	0.019	3.95E-01	-0.017	0.024	4.84E-01	-0.012	0.025	6.38E-01
rs77485342	T	C	-0.054	0.058	3.55E-01	-0.137	0.140	3.29E-01				-0.302	0.169	7.30E-02
rs7856625	T	C	0.001	0.010	9.57E-01	0.018	0.020	3.64E-01	-0.011	0.023	6.48E-01	-0.019	0.023	4.21E-01
rs7963801	C	T	0.003	0.011	8.04E-01	-0.009	0.020	6.66E-01	0.050	0.025	4.54E-02	0.044	0.026	9.46E-02
rs7970350	T	C	0.016	0.010	1.20E-01	0.009	0.019	6.48E-01	0.018	0.023	4.46E-01	0.081	0.025	1.09E-03
rs8101782	C	A	0.003	0.013	8.36E-01	0.023	0.025	3.52E-01	-0.017	0.029	5.52E-01	-0.005	0.032	8.72E-01
rs8108461	C	T	0.012	0.010	2.58E-01	-0.014	0.019	4.69E-01	-0.022	0.024	3.53E-01	0.044	0.026	8.68E-02
rs821100	G	A	-0.018	0.011	1.07E-01	-0.017	0.022	4.31E-01	-0.014	0.026	5.90E-01	0.018	0.027	5.17E-01
rs823130	T	C	-0.004	0.010	7.23E-01	0.010	0.019	6.07E-01	0.017	0.023	4.61E-01	-0.022	0.025	3.65E-01
rs9371201	T	C	0.008	0.011	4.25E-01	0.014	0.020	5.01E-01	-0.006	0.025	7.98E-01	0.002	0.026	9.49E-01
rs9371881	A	G	-0.014	0.010	1.91E-01	0.005	0.020	8.03E-01	0.011	0.024	6.42E-01	-0.034	0.026	1.92E-01
rs9388769	A	G	0.021	0.011	4.52E-02	-0.002	0.020	9.24E-01	0.016	0.024	5.04E-01	0.041	0.026	1.21E-01
rs9611273	T	C	0.019	0.012	1.09E-01	0.007	0.023	7.72E-01	0.021	0.027	4.29E-01	0.043	0.029	1.44E-01
rs9866627	A	C	-0.031	0.018	7.55E-02	-0.010	0.034	7.70E-01	-0.027	0.042	5.25E-01	-0.021	0.043	6.28E-01
rs9944324	G	A	0.020	0.010	5.00E-02	0.035	0.019	7.34E-02	0.019	0.025	4.46E-01	0.028	0.025	2.71E-01
rs997850	C	G	0.003	0.011	7.56E-01	0.001	0.020	9.76E-01	-0.006	0.024	7.92E-01	0.020	0.027	4.61E-01
rs999493	A	G	-0.021	0.010	4.85E-02	-0.035	0.020	7.50E-02	-0.021	0.024	3.88E-01	-0.054	0.026	3.43E-02

Table S7. The association information of GSR-associated SNPs with several strokes

SNP	EA	OA	AIS			CES			SVS			LAS		
			Beta	SE	P value	Beta	SE	P value	Beta	SE	P value	Beta	SE	P value
rs10193039	T	A	0.015	0.011	1.66E-01	0.039	0.022	6.73E-02	0.010	0.025	6.89E-01	0.017	0.027	5.26E-01
rs10278546	C	A	-0.013	0.013	3.26E-01	0.018	0.025	4.62E-01	-0.045	0.030	1.33E-01	-0.069	0.033	3.53E-02
rs1043515	G	A	-0.009	0.011	3.93E-01	0.003	0.020	8.82E-01	0.007	0.024	7.76E-01	-0.008	0.026	7.68E-01
rs1047891	A	C	-0.002	0.011	8.74E-01	0.006	0.023	7.85E-01	0.014	0.027	5.89E-01	-0.024	0.029	3.96E-01
rs10483727	C	T	0.008	0.010	4.43E-01	-0.001	0.020	9.63E-01	-0.025	0.024	2.96E-01	0.030	0.026	2.58E-01
rs10520770	C	T	-0.004	0.010	6.94E-01	0.011	0.019	5.60E-01	-0.015	0.023	5.21E-01	-0.012	0.025	6.29E-01
rs10761411	T	C	0.018	0.014	1.74E-01	0.017	0.026	5.20E-01	0.010	0.032	7.53E-01	0.036	0.034	2.88E-01
rs10770125	G	A	-0.003	0.011	8.09E-01	0.009	0.020	6.58E-01	-0.012	0.024	6.28E-01	-0.013	0.026	6.30E-01
rs10784502	T	C	0.016	0.010	1.12E-01	-0.001	0.019	9.41E-01	0.026	0.023	2.50E-01	0.062	0.024	1.10E-02
rs10798483	A	G	0.007	0.010	4.67E-01	0.018	0.019	3.39E-01	0.020	0.023	3.88E-01	-0.003	0.026	8.98E-01
rs10798876	G	C	-0.012	0.010	2.48E-01	-0.017	0.019	3.63E-01	-0.033	0.023	1.55E-01	0.003	0.025	8.93E-01
rs10799428	T	C	-0.015	0.013	2.60E-01	0.003	0.025	9.04E-01	-0.022	0.029	4.62E-01	-0.007	0.031	8.13E-01
rs10846071	T	C	-0.011	0.011	3.10E-01	-0.005	0.019	8.11E-01	0.020	0.024	3.91E-01	-0.025	0.025	3.32E-01
rs11022513	T	C	0.005	0.011	6.66E-01	0.021	0.019	2.78E-01	0.007	0.023	7.71E-01	-0.005	0.025	8.54E-01
rs11039348	A	G	0.012	0.010	2.35E-01	0.005	0.020	7.99E-01	0.062	0.024	8.32E-03	-0.005	0.026	8.60E-01
rs112330055	A	G	-0.015	0.022	5.14E-01	-0.053	0.044	2.29E-01	0.015	0.052	7.82E-01	-0.015	0.055	7.86E-01
rs11243202	C	T	0.006	0.010	5.44E-01	-0.020	0.019	2.83E-01	0.008	0.023	7.38E-01	0.052	0.024	3.23E-02
rs1125	A	G	0.008	0.011	4.68E-01	0.019	0.021	3.69E-01	-0.008	0.025	7.61E-01	-0.005	0.027	8.44E-01
rs113315602	C	A	-0.054	0.056	3.35E-01	-0.146	0.102	1.54E-01	-0.191	0.133	1.52E-01	0.122	0.123	3.20E-01
rs113835839	T	C	0.004	0.012	7.54E-01	-0.004	0.024	8.73E-01	0.036	0.029	2.12E-01	-0.013	0.031	6.86E-01
rs113851275	A	G	0.047	0.016	3.04E-03	0.113	0.030	1.88E-04	0.025	0.038	5.18E-01	-0.010	0.040	8.03E-01
rs114924396	G	A	-0.027	0.022	2.22E-01	0.062	0.043	1.54E-01	-0.003	0.051	9.54E-01	-0.018	0.056	7.49E-01
rs11642954	A	G	-0.009	0.012	4.85E-01	-0.042	0.024	8.68E-02	0.010	0.029	7.22E-01	-0.034	0.031	2.68E-01
rs116922558	G	A	0.024	0.032	4.60E-01	0.050	0.061	4.18E-01	-0.008	0.079	9.20E-01	0.042	0.083	6.11E-01
rs11998884	T	C	-0.032	0.021	1.19E-01	-0.027	0.041	5.12E-01	-0.111	0.058	5.57E-02	0.008	0.053	8.75E-01
rs12052508	T	C	-0.017	0.015	2.60E-01	-0.054	0.030	6.74E-02	-0.010	0.036	7.78E-01	-0.021	0.039	5.93E-01
rs12101479	C	G	-0.003	0.012	8.07E-01	0.022	0.023	3.29E-01	0.005	0.027	8.55E-01	0.038	0.029	1.91E-01
rs12316046	G	A	-0.008	0.010	4.35E-01	-0.001	0.020	9.78E-01	0.015	0.024	5.39E-01	-0.031	0.026	2.27E-01
rs12412806	A	G	-0.004	0.011	7.40E-01	-0.016	0.022	4.49E-01	0.037	0.026	1.44E-01	-0.037	0.028	1.82E-01
rs12452505	G	C	0.013	0.016	4.13E-01	-0.012	0.031	7.00E-01	0.004	0.038	9.15E-01	0.042	0.039	2.75E-01
rs12522139	G	T	-0.004	0.013	7.40E-01	0.011	0.026	6.77E-01	0.000	0.031	9.98E-01	-0.008	0.033	8.17E-01
rs12562146	A	T	0.019	0.014	1.81E-01	0.004	0.027	8.94E-01	-0.004	0.032	9.14E-01	0.049	0.035	1.59E-01
rs12616285	G	T	-0.006	0.014	6.85E-01	-0.025	0.027	3.42E-01	0.038	0.031	2.19E-01	0.002	0.034	9.43E-01
rs12763284	G	A	0.011	0.010	2.79E-01	-0.010	0.019	6.03E-01	0.007	0.023	7.76E-01	-0.033	0.025	1.77E-01
rs12790261	A	C	-0.014	0.025	5.76E-01	0.011	0.046	8.07E-01	0.030	0.053	5.70E-01	0.074	0.061	2.28E-01
rs12823922	G	A	0.001	0.012	9.13E-01	-0.023	0.024	3.32E-01	0.025	0.026	3.48E-01	0.014	0.031	6.45E-01
rs12889267	G	A	0.005	0.014	7.48E-01	0.019	0.027	4.94E-01	0.009	0.033	7.79E-01	0.039	0.035	2.60E-01
rs12899474	T	C	-0.026	0.017	1.27E-01	0.007	0.033	8.24E-01	-0.051	0.039	1.86E-01	-0.011	0.041	7.91E-01
rs12914702	A	G	-0.023	0.015	1.35E-01	-0.016	0.031	6.02E-01	-0.039	0.035	2.61E-01	-0.071	0.043	1.01E-01

rs13106087	C	T	0.019	0.014	1.60E-01	0.023	0.026	3.72E-01	0.022	0.031	4.65E-01	0.024	0.034	4.76E-01
rs13107325	T	C	-0.007	0.022	7.61E-01	-0.030	0.044	4.92E-01	0.023	0.048	6.22E-01	0.021	0.053	6.97E-01
rs13146142	C	T	0.024	0.014	8.50E-02	-0.003	0.027	9.04E-01	0.090	0.033	5.88E-03	0.061	0.034	6.91E-02
rs13169333	C	T	-0.005	0.011	6.81E-01	0.006	0.022	7.94E-01	0.006	0.026	8.24E-01	-0.044	0.028	1.13E-01
rs13355365	T	C	0.001	0.010	9.53E-01	0.015	0.020	4.34E-01	-0.031	0.024	2.00E-01	-0.063	0.026	1.43E-02
rs13356200	G	T	0.008	0.010	4.49E-01	-0.002	0.020	9.35E-01	0.054	0.024	2.39E-02	0.007	0.026	7.97E-01
rs1440152	G	C	-0.025	0.010	1.55E-02	-0.035	0.020	7.20E-02	-0.060	0.024	1.13E-02	-0.029	0.025	2.53E-01
rs1442883	A	C	0.010	0.012	3.77E-01	0.000	0.023	9.95E-01	0.018	0.027	5.07E-01	0.015	0.029	6.07E-01
rs1486925	C	T	0.012	0.011	2.49E-01	0.027	0.021	1.85E-01	0.019	0.025	4.33E-01	0.030	0.027	2.66E-01
rs150330307	C	T	-0.003	0.032	9.35E-01	0.054	0.062	3.87E-01	0.002	0.076	9.80E-01	-0.029	0.084	7.31E-01
rs1550115	T	C	0.021	0.012	8.07E-02	0.048	0.023	4.11E-02	0.008	0.026	7.59E-01	0.060	0.030	4.38E-02
rs1556659	T	C	0.002	0.010	8.21E-01	0.010	0.020	6.00E-01	-0.026	0.024	2.75E-01	-0.026	0.026	3.22E-01
rs1635527	C	G	-0.009	0.010	3.72E-01	0.007	0.019	7.10E-01	-0.024	0.023	2.86E-01	-0.057	0.025	2.13E-02
rs1641457	G	T	0.002	0.013	8.62E-01	-0.006	0.024	8.13E-01	-0.023	0.028	4.08E-01	-0.035	0.032	2.72E-01
rs1840753	T	C	0.026	0.023	2.70E-01	-0.008	0.045	8.61E-01	0.033	0.053	5.38E-01	-0.084	0.059	1.58E-01
rs185320691	C	G	0.034	0.053	5.23E-01	-0.014	0.120	9.08E-01	0.119	0.121	3.22E-01	0.220	0.148	1.37E-01
rs1885690	A	C	-0.007	0.010	5.10E-01	0.002	0.019	9.35E-01	0.026	0.023	2.67E-01	-0.039	0.025	1.16E-01
rs1892425	A	G	0.013	0.012	2.73E-01	0.032	0.023	1.58E-01	0.030	0.028	2.82E-01	0.020	0.030	4.90E-01
rs1952256	G	A	0.001	0.010	8.92E-01	0.005	0.020	7.85E-01	0.001	0.024	9.54E-01	0.039	0.025	1.24E-01
rs2147461	C	T	0.020	0.015	1.95E-01	0.015	0.030	6.24E-01	0.059	0.035	9.27E-02	0.052	0.037	1.60E-01
rs2165241	C	T	-0.003	0.010	7.46E-01	-0.012	0.019	5.24E-01	-0.031	0.023	1.70E-01	-0.013	0.024	5.92E-01
rs2194411	A	G	-0.041	0.016	1.11E-02	-0.065	0.037	7.62E-02	-0.006	0.037	8.65E-01	0.068	0.040	8.88E-02
rs2194747	G	A	0.012	0.011	2.81E-01	0.011	0.021	6.06E-01	0.032	0.025	2.05E-01	0.002	0.027	9.47E-01
rs2208562	T	C	0.001	0.010	9.47E-01	0.012	0.019	5.51E-01	-0.010	0.023	6.59E-01	-0.017	0.023	4.64E-01
rs2226685	C	T	0.002	0.012	8.89E-01	0.004	0.023	8.73E-01	0.012	0.027	6.66E-01	-0.022	0.029	4.37E-01
rs2244621	T	C	0.001	0.014	9.74E-01	-0.014	0.028	6.06E-01	0.043	0.033	1.89E-01	0.009	0.035	8.08E-01
rs2273555	A	G	0.021	0.010	3.60E-02	0.016	0.019	3.99E-01	0.003	0.023	8.88E-01	0.024	0.025	3.31E-01
rs2296316	C	T	0.005	0.010	6.46E-01	-0.013	0.019	5.03E-01	0.012	0.023	5.88E-01	-0.014	0.025	5.82E-01
rs2322754	A	G	-0.006	0.013	6.34E-01	-0.048	0.025	5.81E-02	0.038	0.030	2.01E-01	-0.023	0.032	4.67E-01
rs2341184	C	T	0.016	0.011	1.54E-01	0.007	0.022	7.60E-01	0.006	0.026	8.08E-01	0.037	0.028	1.86E-01
rs2362972	A	C	0.018	0.011	9.37E-02	0.011	0.019	5.70E-01	0.014	0.023	5.40E-01	0.030	0.025	2.19E-01
rs2389763	C	T	-0.015	0.010	1.40E-01	-0.025	0.019	1.85E-01	-0.043	0.023	6.02E-02	-0.005	0.025	8.29E-01
rs2431112	A	G	0.012	0.010	2.28E-01	0.004	0.019	8.40E-01	0.018	0.023	4.44E-01	0.023	0.025	3.61E-01
rs246181	T	C	0.010	0.011	3.63E-01	0.011	0.020	5.93E-01	-0.018	0.025	4.55E-01	0.000	0.027	9.89E-01
rs248831	A	G	0.019	0.012	1.06E-01	0.014	0.023	5.33E-01	0.058	0.027	3.21E-02	0.026	0.029	3.71E-01
rs2587505	C	T	-0.003	0.010	8.07E-01	-0.025	0.020	2.11E-01	-0.049	0.024	3.88E-02	-0.003	0.026	9.23E-01
rs2631360	A	G	-0.012	0.010	2.33E-01	0.006	0.019	7.49E-01	-0.022	0.023	3.31E-01	-0.007	0.024	7.74E-01
rs2717351	G	A	-0.018	0.012	1.33E-01	-0.013	0.023	5.67E-01	-0.038	0.028	1.80E-01	-0.065	0.030	3.10E-02
rs2854152	G	A	-0.008	0.011	5.04E-01	0.021	0.022	3.27E-01	-0.034	0.025	1.79E-01	-0.002	0.027	9.37E-01
rs2871865	G	C	0.006	0.017	7.25E-01	-0.026	0.034	4.46E-01	0.053	0.039	1.79E-01	0.050	0.042	2.36E-01
rs2894602	G	A	-0.009	0.012	4.64E-01	-0.050	0.023	3.05E-02	-0.011	0.028	6.93E-01	0.028	0.030	3.62E-01
rs3118914	T	G	0.005	0.012	6.78E-01	-0.016	0.024	4.92E-01	-0.014	0.028	6.22E-01	0.023	0.030	4.54E-01

rs34030812	C	T	0.002	0.010	8.70E-01	0.000	0.020	9.86E-01	-0.004	0.024	8.77E-01	-0.037	0.025	1.46E-01
rs34217742	A	T	-0.010	0.015	5.12E-01	-0.003	0.029	9.26E-01	0.010	0.034	7.64E-01	-0.049	0.037	1.81E-01
rs34587452	C	G	0.014	0.013	3.02E-01	0.017	0.026	5.11E-01	0.007	0.030	8.18E-01	0.004	0.033	8.98E-01
rs34845616	A	G	-0.003	0.012	7.90E-01	0.002	0.024	9.40E-01	0.035	0.029	2.25E-01	-0.075	0.032	2.17E-02
rs35175534	C	A	-0.007	0.051	8.87E-01	-0.112	0.122	3.58E-01	0.023	0.163	8.87E-01	-0.177	0.180	3.24E-01
rs35304341	A	G	0.009	0.018	6.34E-01	-0.010	0.035	7.87E-01	-0.024	0.042	5.71E-01	-0.003	0.045	9.45E-01
rs35457492	C	A	-0.017	0.010	8.15E-02	-0.033	0.019	7.92E-02	-0.041	0.023	7.17E-02	-0.002	0.025	9.36E-01
rs35701422	C	T	-0.012	0.010	2.28E-01	-0.019	0.019	3.28E-01	-0.014	0.023	5.38E-01	-0.069	0.025	5.50E-03
rs35833641	G	A	0.003	0.011	7.76E-01	-0.003	0.021	8.91E-01	-0.009	0.025	7.12E-01	0.047	0.026	7.59E-02
rs36065733	G	T	0.014	0.010	1.56E-01	0.001	0.019	9.47E-01	-0.010	0.023	6.53E-01	0.032	0.025	1.96E-01
rs3771498	T	C	0.004	0.010	6.69E-01	-0.011	0.019	5.63E-01	-0.054	0.023	2.06E-02	0.032	0.025	1.98E-01
rs3848369	T	C	0.012	0.010	2.32E-01	0.040	0.020	4.72E-02	0.005	0.024	8.51E-01	-0.012	0.026	6.43E-01
rs4121165	A	G	-0.025	0.012	4.55E-02	-0.031	0.024	1.93E-01	0.009	0.028	7.56E-01	-0.005	0.031	8.68E-01
rs4369779	C	T	0.014	0.013	2.60E-01	0.037	0.024	1.27E-01	0.022	0.028	4.38E-01	0.030	0.031	3.38E-01
rs4549685	T	C	0.010	0.011	3.54E-01	0.039	0.020	5.29E-02	-0.001	0.025	9.79E-01	0.012	0.027	6.43E-01
rs4553566	C	T	-0.008	0.010	4.32E-01	0.023	0.019	2.33E-01	-0.008	0.023	7.27E-01	-0.031	0.025	2.06E-01
rs4730984	T	G	-0.003	0.012	8.25E-01	0.009	0.023	7.10E-01	0.020	0.028	4.70E-01	0.035	0.030	2.38E-01
rs4737446	T	G	-0.008	0.011	4.68E-01	0.009	0.021	6.61E-01	-0.016	0.026	5.23E-01	-0.023	0.027	3.99E-01
rs4751671	A	G	0.012	0.010	2.31E-01	0.010	0.019	5.91E-01	0.014	0.023	5.63E-01	0.003	0.025	9.00E-01
rs4752689	A	G	-0.030	0.010	3.38E-03	0.015	0.019	4.21E-01	-0.033	0.023	1.56E-01	-0.039	0.025	1.14E-01
rs4768725	C	T	-0.009	0.011	3.74E-01	0.012	0.020	5.49E-01	-0.016	0.024	5.25E-01	-0.038	0.026	1.47E-01
rs4784329	C	A	-0.008	0.010	4.70E-01	-0.009	0.020	6.51E-01	0.002	0.024	9.45E-01	-0.008	0.026	7.47E-01
rs4785574	G	A	-0.009	0.010	3.72E-01	-0.011	0.019	5.70E-01	-0.012	0.023	6.16E-01	0.004	0.025	8.65E-01
rs4793658	C	A	0.036	0.017	2.80E-02	0.032	0.031	2.96E-01	0.005	0.038	9.07E-01	-0.019	0.038	6.23E-01
rs4802848	C	G	0.019	0.012	1.13E-01	0.012	0.023	5.97E-01	-0.008	0.027	7.62E-01	0.001	0.030	9.86E-01
rs4868110	T	A	-0.011	0.011	3.25E-01	-0.004	0.020	8.48E-01	-0.009	0.025	7.29E-01	-0.019	0.026	4.72E-01
rs4927015	A	G	-0.017	0.010	9.66E-02	0.004	0.020	8.35E-01	-0.030	0.024	2.09E-01	0.004	0.026	8.65E-01
rs4962700	G	C	-0.005	0.011	6.52E-01	-0.023	0.022	2.86E-01	0.002	0.026	9.54E-01	0.007	0.028	8.02E-01
rs56074046	A	G	-0.016	0.011	1.52E-01	-0.062	0.020	1.84E-03	0.027	0.024	2.49E-01	-0.004	0.025	8.87E-01
rs56144131	C	T	-0.003	0.014	8.51E-01	-0.028	0.028	3.22E-01	0.079	0.033	1.78E-02	0.005	0.036	8.92E-01
rs56365901	G	A	0.007	0.016	6.62E-01	-0.025	0.030	4.02E-01	0.089	0.032	5.40E-03	-0.017	0.038	6.48E-01
rs58670122	G	A	-0.018	0.015	2.40E-01	-0.011	0.029	7.18E-01	0.005	0.034	8.88E-01	0.015	0.037	6.82E-01
rs6006984	C	T	0.006	0.011	5.74E-01	-0.035	0.021	1.02E-01	0.027	0.025	2.81E-01	0.015	0.027	5.75E-01
rs6063504	G	C	-0.014	0.010	1.86E-01	-0.012	0.019	5.31E-01	-0.037	0.024	1.22E-01	0.027	0.025	2.88E-01
rs61389091	T	C	-0.011	0.026	6.84E-01	-0.035	0.054	5.19E-01	0.004	0.064	9.48E-01	0.057	0.069	4.09E-01
rs62037412	A	G	-0.023	0.011	2.69E-02	-0.038	0.021	6.14E-02	-0.041	0.024	8.68E-02	-0.007	0.026	7.94E-01
rs62234790	A	C	0.008	0.012	5.15E-01	0.002	0.023	9.40E-01	0.016	0.027	5.62E-01	-0.028	0.029	3.29E-01
rs62509875	G	A	0.021	0.014	1.32E-01	0.026	0.026	3.16E-01	0.046	0.031	1.41E-01	0.061	0.033	6.47E-02
rs635538	A	G	0.007	0.018	6.83E-01	0.099	0.036	5.79E-03	0.014	0.042	7.38E-01	0.004	0.044	9.33E-01
rs645144	C	T	-0.025	0.011	2.19E-02	-0.055	0.020	6.54E-03	-0.018	0.025	4.78E-01	-0.047	0.027	7.41E-02
rs6473015	C	A	-0.011	0.011	3.41E-01	-0.001	0.021	9.56E-01	0.001	0.026	9.70E-01	-0.037	0.028	1.79E-01
rs6592737	T	A	0.004	0.010	6.71E-01	0.009	0.020	6.41E-01	-0.001	0.024	9.71E-01	-0.027	0.026	2.83E-01

rs6693567	T	C	0.017	0.012	1.31E-01	0.054	0.022	1.45E-02	0.002	0.026	9.50E-01	0.039	0.028	1.69E-01
rs6693965	T	G	-0.012	0.015	4.21E-01	-0.037	0.030	2.12E-01	-0.121	0.036	8.57E-04	0.020	0.038	5.91E-01
rs6711390	T	C	0.019	0.011	6.72E-02	0.050	0.020	1.24E-02	0.013	0.024	5.74E-01	0.039	0.026	1.27E-01
rs6715064	T	C	-0.001	0.011	9.09E-01	-0.006	0.021	7.90E-01	0.032	0.025	2.02E-01	-0.005	0.027	8.68E-01
rs6792762	A	G	0.004	0.010	6.60E-01	0.009	0.020	6.61E-01	-0.015	0.026	5.49E-01	0.039	0.026	1.23E-01
rs6870324	G	C	0.002	0.011	8.50E-01	0.033	0.021	1.20E-01	0.009	0.026	7.27E-01	0.003	0.028	9.05E-01
rs6882168	T	C	0.007	0.011	5.21E-01	0.007	0.020	7.38E-01	-0.011	0.027	6.73E-01	0.022	0.027	4.14E-01
rs6962338	G	A	-0.026	0.026	3.23E-01	-0.052	0.051	3.06E-01	0.025	0.061	6.85E-01	0.008	0.063	9.02E-01
rs6977081	T	G	-0.015	0.011	1.42E-01	-0.013	0.020	5.21E-01	-0.033	0.024	1.71E-01	-0.017	0.026	5.20E-01
rs7034200	A	C	0.007	0.010	4.82E-01	0.008	0.019	6.88E-01	0.005	0.023	8.34E-01	0.024	0.025	3.27E-01
rs71298370	A	G	0.011	0.020	5.88E-01	0.012	0.039	7.68E-01	-0.017	0.049	7.21E-01	0.053	0.050	2.86E-01
rs7148603	A	G	0.001	0.011	9.67E-01	0.023	0.021	2.84E-01	0.033	0.025	1.95E-01	-0.006	0.027	8.22E-01
rs7196917	G	A	0.003	0.010	8.01E-01	-0.006	0.019	7.65E-01	0.029	0.023	2.05E-01	0.028	0.024	2.42E-01
rs7206195	T	C	-0.029	0.014	3.51E-02	-0.016	0.027	5.48E-01	-0.020	0.031	5.13E-01	-0.020	0.033	5.45E-01
rs721101	C	T	-0.015	0.012	2.00E-01	0.001	0.022	9.71E-01	0.005	0.027	8.67E-01	-0.046	0.029	1.11E-01
rs7214252	A	G	-0.011	0.013	3.93E-01	0.010	0.024	6.97E-01	-0.054	0.029	6.15E-02	0.010	0.031	7.58E-01
rs7249	T	C	-0.012	0.011	2.59E-01	-0.015	0.020	4.70E-01	0.000	0.024	9.93E-01	-0.043	0.026	9.80E-02
rs7266065	A	G	0.007	0.011	5.16E-01	-0.003	0.021	8.74E-01	0.037	0.025	1.38E-01	0.014	0.027	6.06E-01
rs72820369	T	A	0.007	0.016	6.82E-01	0.023	0.031	4.53E-01	0.002	0.038	9.68E-01	0.029	0.040	4.61E-01
rs72977282	A	T	0.001	0.010	9.22E-01	-0.017	0.020	3.92E-01	0.044	0.025	7.66E-02	-0.030	0.027	2.65E-01
rs7301953	A	G	-0.016	0.011	1.53E-01	-0.017	0.021	4.08E-01	-0.051	0.025	4.18E-02	-0.052	0.027	5.31E-02
rs7451021	C	T	0.020	0.011	6.99E-02	-0.001	0.021	9.54E-01	0.011	0.025	6.55E-01	0.041	0.027	1.29E-01
rs75457267	T	C	0.015	0.025	5.50E-01	0.054	0.050	2.82E-01	0.040	0.055	4.70E-01	0.031	0.062	6.20E-01
rs7549184	A	G	0.011	0.012	3.63E-01	-0.002	0.027	9.41E-01	0.001	0.028	9.80E-01	0.023	0.031	4.44E-01
rs7565148	G	T	0.018	0.011	9.82E-02	0.015	0.020	4.57E-01	0.049	0.023	3.57E-02	0.021	0.026	4.15E-01
rs7575451	G	C	0.002	0.010	8.28E-01	0.003	0.020	9.00E-01	0.007	0.024	7.82E-01	0.019	0.026	4.49E-01
rs7576964	T	G	-0.008	0.010	4.43E-01	-0.017	0.020	4.02E-01	-0.012	0.024	6.29E-01	-0.053	0.026	4.06E-02
rs7652177	G	C	-0.012	0.010	2.22E-01	-0.020	0.019	3.04E-01	-0.031	0.024	1.86E-01	-0.021	0.025	4.16E-01
rs7657558	G	T	0.003	0.011	7.69E-01	0.008	0.021	7.18E-01	-0.043	0.026	1.03E-01	0.000	0.028	9.96E-01
rs76749769	T	C	0.004	0.019	8.37E-01	-0.059	0.038	1.17E-01	-0.048	0.046	2.91E-01	0.004	0.049	9.28E-01
rs76895963	G	T	-0.060	0.054	2.73E-01	-0.039	0.113	7.28E-01	-0.054	0.128	6.72E-01	-0.191	0.147	1.93E-01
rs77485342	T	C	-0.054	0.058	3.55E-01	-0.137	0.140	3.29E-01				-0.302	0.169	7.30E-02
rs7790322	T	C	0.019	0.010	5.58E-02	0.015	0.019	4.21E-01	0.022	0.023	3.41E-01	0.027	0.025	2.76E-01
rs7871404	G	A	-0.014	0.013	2.67E-01	-0.005	0.025	8.26E-01	-0.008	0.029	7.73E-01	-0.020	0.031	5.27E-01
rs7953280	C	G	0.020	0.010	4.96E-02	0.033	0.020	8.80E-02	0.039	0.024	9.51E-02	0.015	0.025	5.47E-01
rs7963801	C	T	0.003	0.011	8.04E-01	-0.009	0.020	6.66E-01	0.050	0.025	4.54E-02	0.044	0.026	9.46E-02
rs8055199	A	G	-0.016	0.011	1.60E-01	-0.026	0.022	2.40E-01	0.059	0.028	3.43E-02	0.009	0.028	7.54E-01
rs823130	T	C	-0.004	0.010	7.23E-01	0.010	0.019	6.07E-01	0.017	0.023	4.61E-01	-0.022	0.025	3.65E-01
rs852520	A	C	-0.013	0.011	2.07E-01	-0.023	0.020	2.56E-01	0.008	0.025	7.62E-01	-0.004	0.027	8.78E-01
rs911642	T	C	0.009	0.010	3.88E-01	0.012	0.020	5.48E-01	-0.034	0.025	1.68E-01	0.018	0.026	4.81E-01
rs9267806	A	G	0.020	0.014	1.53E-01	0.025	0.026	3.25E-01	0.048	0.031	1.25E-01	0.028	0.032	3.82E-01
rs9322822	T	C	-0.015	0.011	1.75E-01	0.008	0.020	7.03E-01	-0.013	0.024	6.06E-01	-0.020	0.026	4.56E-01

rs935728	T	C	0.011	0.011	3.14E-01	-0.009	0.021	6.60E-01	-0.026	0.025	3.07E-01	-0.048	0.027	7.78E-02
rs9388051	A	G	-0.001	0.013	9.48E-01	0.013	0.025	6.18E-01	-0.020	0.030	5.15E-01	0.010	0.032	7.55E-01
rs9396861	A	C	0.007	0.011	4.91E-01	0.015	0.021	4.53E-01	-0.005	0.025	8.34E-01	0.010	0.027	7.10E-01
rs9639938	G	C	-0.006	0.010	5.55E-01	-0.019	0.019	3.11E-01	-0.020	0.023	3.82E-01	0.034	0.025	1.66E-01
rs9652468	A	G	0.007	0.011	5.52E-01	-0.007	0.022	7.51E-01	-0.013	0.026	6.20E-01	-0.001	0.028	9.73E-01
rs9757079	T	C	0.003	0.011	7.52E-01	0.017	0.020	3.96E-01	-0.024	0.024	3.31E-01	-0.020	0.026	4.60E-01
rs9853018	T	C	0.003	0.010	7.82E-01	0.029	0.019	1.21E-01	-0.031	0.023	1.78E-01	-0.021	0.025	3.91E-01
rs997850	C	G	0.003	0.011	7.56E-01	0.001	0.020	9.76E-01	-0.006	0.024	7.92E-01	0.020	0.027	4.61E-01