

## CONTENTS

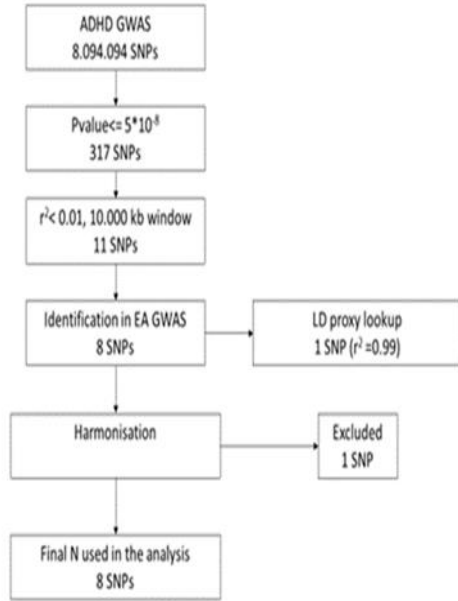
eMethods S1	Sensitivity Analyses to test for horizontal pleiotropy and the robustness of the causal effect estimates.	Page: 2
Figure1	Flowcharts visualising the process for instrument definition, extraction and harmonisation for the two-sample MR analyses conducted in the present study.	Page: 3
Figure 2	Flowchart visualising the process for instrument definition for the MVMR analyses conducted in the present study.	Page: 4
Table S1	Instruments for ADHD, ASD, educational attainment (EA) and cognitive ability used in the MR and MVMR analyses.	Pages: 5- 21
Table S2	Harmonised instruments used in the MR analyses investigating: 2a. the causal effect of genetic liability to ADHD on educational attainment; 2b.the causal effect of genetic liability to ASD on educational attainment; 2c. the causal effect of genetic liability to higher educational attainment on risk of ADHD; 2d. the causal effect of genetic liability to higher educational attainment on risk of ASD	Pages: 22- 58
Table S3	Causal effect estimates of ADHD genetic liability on educational attainment derived from two-sample MR analyses.	Page: 59
Table S4	Direct causal effect estimates of genetic liability to ADHD and cognitive ability on educational attainment, as estimated by MVMR analysis.	Page: 59
Table S5	Causal effect estimates of ASD genetic liability on educational attainment derived from two-sample MR analyses.	Page: 60
Table S6	Direct causal effect estimates of genetic liability to ASD and cognitive ability on educational attainment, as estimated by MVMR analysis.	Page: 60
Table S7a	Causal effect estimates of genetic liability to higher educational attainment on risk of ADHD derived from two-sample MR analyses.	Page: 61
Table S7b	Causal effect estimates of genetic liability to higher educational attainment on risk of ADHD after removing instruments identified to explain more variation in the outcome through Steiger filtering.	Page: 61
Table S8	Direct causal effect estimates of genetic liability to higher EA and cognitive ability on risk of ADHD, as estimated by MVMR analysis.	Page: 61
Table S9a	Causal effect estimates of genetic liability to higher educational attainment on risk of ASD derived from two-sample MR analyses.	Page: 62
Table S9b	Causal effect estimates of genetic liability to higher educational attainment on risk of ASD after removing instruments identified to explain more variation in the outcome through Steiger filtering.	Page: 62
Table S10	Direct causal effect estimates of genetic liability to higher EA and cognitive ability on risk of ASD, as estimated by MVMR analysis.	Page: 62
	References	Page: 63

**eMethods S1.** Sensitivity Analyses to test for horizontal pleiotropy and the robustness of the causal effect estimates.

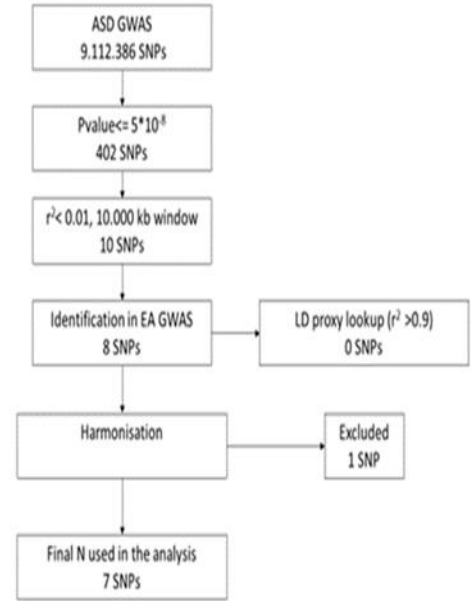
To test for the presence of horizontal pleiotropy (i.e. whereby a genetic variant has independent effects on multiple phenotypes) we used MR-Egger regression<sup>1,2</sup>. MR-Egger (in contrast to IVW) allows the intercept term to be unconstrained. The intercept parameter indicates the overall unbalanced horizontal pleiotropic effect of the SNPs on the outcome (i.e. a direct effect of each SNP on the outcome, independent of the exposure, which would violate MR assumptions), while the slope offers an effect estimate accounting for directional pleiotropy. MR-Egger, as all MR analyses, assumes the gene-exposure association estimates are measured without error (i.e. the no measurement error [NOME] assumption)<sup>1</sup>. We assessed the NOME assumption using an adaptation of the  $I^2$  statistic<sup>3</sup> within the two-sample MR context, which is referred to as  $I^2_{GX}$ .  $I^2_{GX}$  provides an estimate of the degree of regression dilution in the MR-Egger estimate, due to uncertainty in the SNP-exposure estimates. We then used simulation extrapolation (SIMEX) to adjust the MR-Egger estimate for this dilution, as described previously<sup>4</sup>. We conducted weighted median MR which provides an estimate of effect even when only 50% of the genetic variants included in the analysis are valid instruments for the exposure<sup>5</sup>. We performed weighted mode MR which provides an effect estimate based on the assumption that the most common effect of the genetic variants stems from valid instruments<sup>6</sup>.

In the case of the analyses investigating the effects of genetic liability to ASD on educational attainment we additionally performed the robust adjusted profile score MR approach (MR Raps), which provides an effect estimate robust to weak instrument bias and systematic pleiotropy<sup>7</sup>. The approach was chosen by acknowledging the possibility that the relaxed p-value threshold used for instrument inclusion ( $p\text{-value} \leq 5 \times 10^{-7}$ ) might have made the analysis prone to weak instrument bias. Finally, we used Steiger filtering in order to exclude the possibility that the direction of the identified effects was influenced by the large sample size and power of the educational attainment GWAS or the strong genetic correlations between ADHD, ASD and educational attainment<sup>8</sup>. The method assesses whether SNPs used as proxies for the exposure are explaining more variation in the outcome, and therefore an MR assumption is violated: instruments influence the outcome via pathways other than the exposure. The method allows the detection and removal of these variants from subsequent MR analyses.

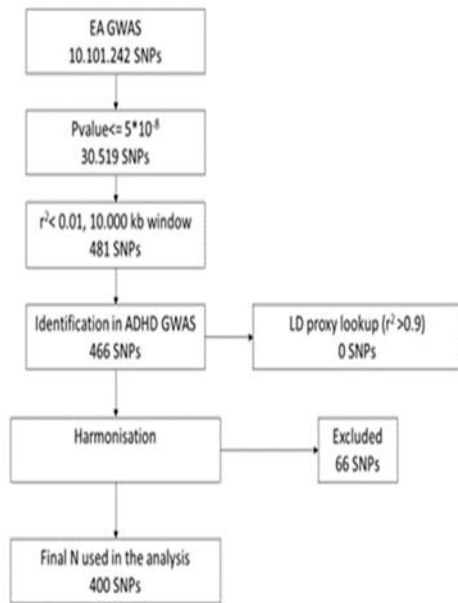
Causal effect of genetic liability to ADHD on EA



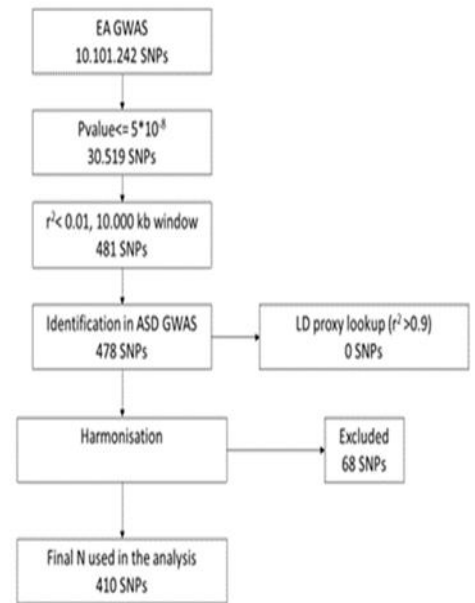
Causal effect of genetic liability to ASD on EA



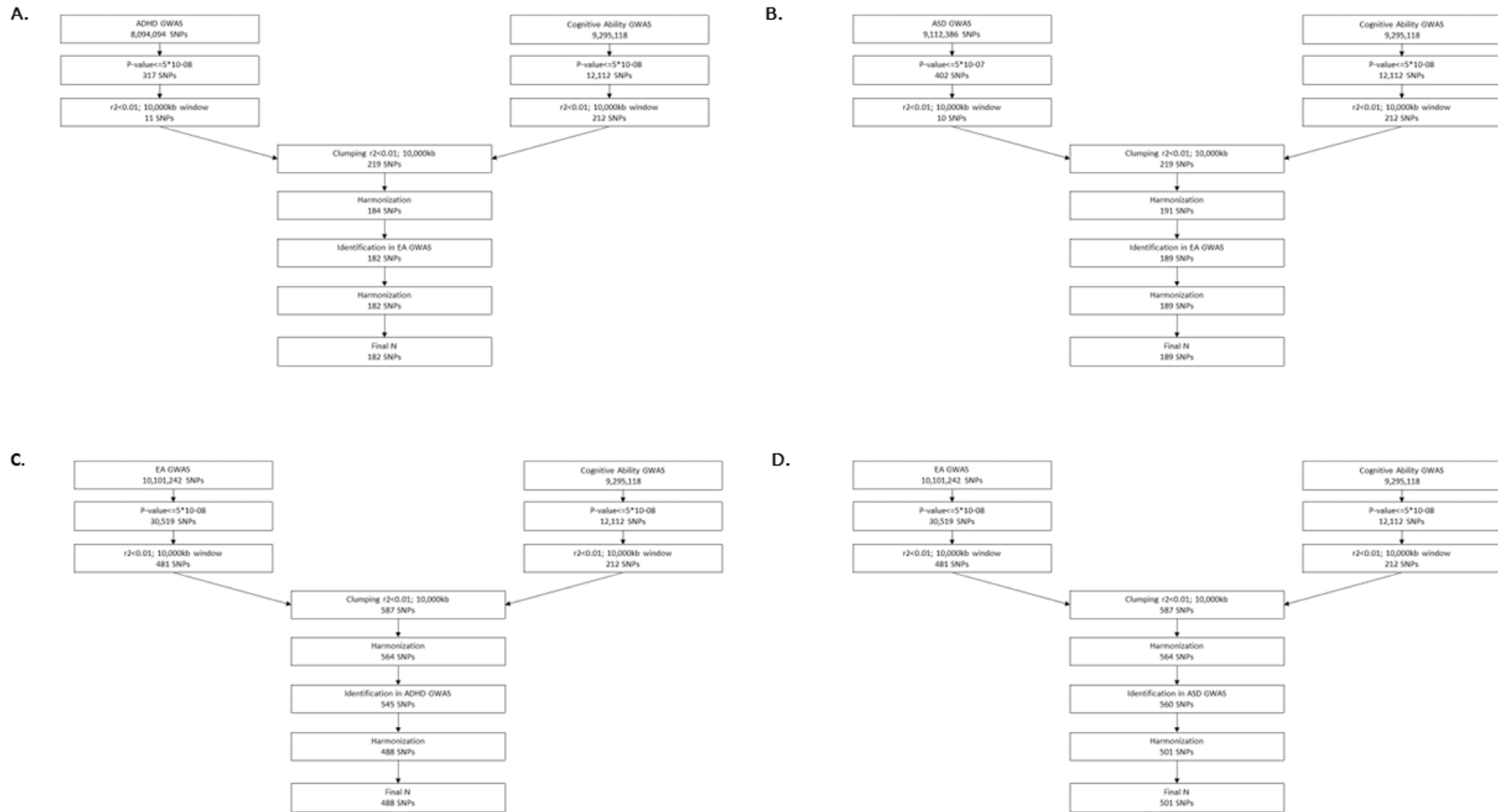
Causal effect of genetic liability to higher EA on ADHD



Causal effect of genetic liability to higher EA on ASD



**Figure S1:** Flowcharts visualising the process for instrument definition, extraction and harmonisation for the two-sample MR analyses conducted in the present study.



**Figure S2.** Flowcharts visualising the process for instrument definition for the MVMR analyses conducted in the present study.

**Table S1.** Instruments for ADHD, ASD, educational attainment (EA) and cognitive ability used in the MR and MVMR analyses.

<b>ADHD instruments (r<sup>2</sup>=0.01; kb:10,000; p&lt;=5e-08)</b>					
SNP	A1	A2	logOR	SE	P
rs11420276	G	GT	0.107104	0.0149	6.45E-13
rs1222063	A	G	0.096201	0.0174	3.07E-08
rs4858241	T	G	0.082197	0.0143	8.17E-09
rs28411770	T	C	0.086104	0.0151	1.15E-08
rs4916723	A	C	-0.0778	0.0138	1.81E-08
rs10262192	A	G	0.074096	0.0135	3.66E-08
rs74760947	A	G	-0.17961	0.0317	1.39E-08
rs11591402	A	T	-0.0924	0.0164	1.76E-08
rs1427829	A	G	0.082197	0.0136	1.35E-09
rs8039398	T	C	-0.08	0.0135	2.99E-09
rs212178	A	G	-0.1171	0.0205	1.20E-08

<b>ASD instruments (r<sup>2</sup>=0.01; kb:10,000; p&lt;=5e-07)</b>					
SNP	A1	A2	logOR	SE	P
rs910805	A	G	-0.0957	0.016	2.04E-09
rs111931861	A	G	-0.2169	0.0409	1.12E-07
rs11481126	GA	G	0.073799	0.014	1.26E-07
rs325485	A	G	0.072804	0.0143	3.25E-07
rs112635299	T	G	0.220997	0.0432	3.04E-07
rs10099100	C	G	0.084304	0.0147	1.07E-08
rs45595836	T	C	0.138996	0.0272	3.13E-07
rs2391769	A	G	-0.0769	0.0145	1.14E-07
rs6701243	A	C	0.073501	0.0144	3.07E-07
rs1452075	T	C	0.080704	0.0155	2.07E-07

<b>EA instruments (r<sup>2</sup>=0.01; kb:10,000; p&lt;=5e-08)</b>					
SNP	A1	A2	Beta	SE	P
rs13090388	C	T	-0.02852	0.00184	4.29E-54
rs7029718	G	A	-0.02439	0.00174	1.85E-44
rs9372625	A	G	0.02383	0.00176	6.76E-42
rs1334297	A	G	0.02449	0.00192	3.06E-37
rs4700393	G	A	0.02086	0.0017	1.51E-34
rs11123818	G	A	-0.02081	0.00175	1.72E-32
rs34316	C	A	-0.02016	0.00177	3.35E-30
rs10773002	T	A	-0.02191	0.00197	8.68E-29
rs9964724	C	T	-0.01978	0.00183	2.66E-27
rs3747631	G	C	-0.02207	0.00208	2.97E-26
rs1620977	G	A	-0.02046	0.00195	1.14E-25

rs2819336	T	C	0.01828	0.00177	5.46E-25
rs11678980	G	A	0.01744	0.00172	4.29E-24
rs10189857	G	A	-0.01725	0.00171	6.70E-24
rs1008078	T	C	-0.01738	0.00173	1.20E-23
rs73344830	G	A	-0.0172	0.00172	1.95E-23
rs4787457	G	A	-0.01741	0.00176	3.73E-23
rs1689510	G	C	-0.01761	0.0018	1.40E-22
rs1566085	T	G	0.01645	0.00171	6.90E-22
rs10963297	G	C	0.01904	0.00198	7.36E-22
rs1455350	T	A	0.01614	0.0017	2.61E-21
rs56048629	T	C	-0.01654	0.00176	6.76E-21
rs10191758	A	G	-0.01631	0.00175	9.60E-21
rs1391438	T	C	0.0167	0.00183	5.79E-20
rs79265434	A	G	-0.02331	0.00262	6.08E-19
rs4382592	T	G	-0.01636	0.00185	1.01E-18
rs7924036	T	G	0.01501	0.0017	1.07E-18
rs176218	G	T	-0.01883	0.00215	1.85E-18
rs9616906	G	A	-0.01497	0.00172	2.92E-18
rs6557171	C	T	0.01567	0.00181	4.15E-18
rs66568921	G	T	0.01565	0.00182	7.49E-18
rs1892417	C	T	-0.01732	0.00202	1.12E-17
rs74998289	T	G	0.01821	0.00213	1.31E-17
rs35417702	C	T	0.01445	0.0017	1.93E-17
rs1618725	T	C	0.01477	0.00174	2.22E-17
rs11601122	G	A	-0.01947	0.0023	2.24E-17
rs10765775	A	G	0.01488	0.00176	2.62E-17
rs12375949	T	C	-0.01447	0.00172	3.31E-17
rs62444881	C	T	-0.01815	0.00217	5.79E-17
rs62166492	A	G	0.02846	0.0034	6.03E-17
rs9349956	A	C	-0.01881	0.00225	6.28E-17
rs3897821	A	G	0.01502	0.0018	8.25E-17
rs2179152	C	T	0.01455	0.00176	1.21E-16
rs12643771	C	T	-0.01518	0.00184	1.61E-16
rs55736314	C	G	-0.01431	0.00174	1.63E-16
rs2725370	T	C	-0.01536	0.00187	1.97E-16
rs12468040	G	T	-0.01432	0.00175	2.46E-16
rs72828517	C	T	0.01836	0.00224	2.83E-16
rs406413	A	T	0.01695	0.00209	4.84E-16
rs10875121	G	C	-0.01834	0.00226	5.53E-16
rs2245901	A	G	-0.01403	0.00174	6.26E-16
rs1054442	C	A	0.01426	0.00177	8.42E-16
rs1964927	G	A	-0.01423	0.00177	9.90E-16
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rs2971970	T	G	-0.01654	0.00207	1.25E-15

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rs1569092	A	G	0.01807	0.00234	1.16E-14
rs613872	G	T	0.0175	0.00227	1.20E-14
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rs28513670	G	A	0.01477	0.00225	5.06E-11
rs8008382	T	C	-0.01208	0.00185	6.12E-11
rs2406253	G	A	-0.01411	0.00216	6.40E-11
rs56194430	T	C	-0.01514	0.00232	6.65E-11
rs12515541	G	T	0.01135	0.00174	6.95E-11
rs7233920	A	G	-0.01315	0.00202	7.13E-11
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rs6123924	A	G	0.01528	0.00235	7.55E-11
rs66641143	T	C	-0.03162	0.00486	8.04E-11
rs17551064	G	A	-0.01493	0.0023	8.62E-11
rs11732657	A	G	-0.01274	0.00197	9.54E-11
rs10060023	C	T	-0.01178	0.00182	9.59E-11
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rs2923431	C	G	0.0114	0.00176	9.84E-11
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rs74944275	C	T	-0.02739	0.00424	1.02E-10
rs12926704	A	G	-0.01737	0.00269	1.03E-10
rs9289300	T	C	-0.01512	0.00234	1.10E-10
rs1550816	C	T	-0.01107	0.00172	1.33E-10
rs2052285	A	G	0.01123	0.00175	1.34E-10
rs192436652	C	T	0.03497	0.00545	1.35E-10
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rs2447535	A	G	-0.01181	0.00185	1.69E-10
rs4972400	G	A	-0.01156	0.00181	1.70E-10
rs1291818	C	T	-0.01085	0.0017	1.78E-10
rs79523955	A	G	0.01802	0.00283	1.87E-10
rs6513959	A	G	0.01177	0.00185	1.88E-10
rs67890737	C	A	0.01141	0.00179	2.01E-10
rs736282	C	T	-0.01082	0.0017	2.07E-10
rs57016874	C	T	-0.02902	0.00457	2.09E-10
rs337637	G	A	-0.01123	0.00177	2.11E-10
rs268120	A	G	0.01244	0.00196	2.13E-10
rs9529119	C	G	0.01295	0.00204	2.13E-10
rs10887801	G	T	-0.01087	0.00171	2.27E-10
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rs6429082	C	T	0.01078	0.0017	2.37E-10
rs9556958	C	T	0.0108	0.0017	2.38E-10
rs7803932	A	G	0.0143	0.00226	2.44E-10
rs4384309	G	A	-0.0109	0.00172	2.52E-10
rs11023749	A	G	0.01132	0.0018	2.96E-10
rs1558727	C	T	0.01069	0.0017	3.09E-10
rs76608582	C	A	-0.02798	0.00445	3.11E-10
rs9503598	A	G	0.01079	0.00171	3.12E-10
rs12332731	A	T	0.01374	0.00218	3.12E-10
rs17060737	C	T	-0.01192	0.0019	3.18E-10
rs143163770	T	C	-0.01625	0.00258	3.22E-10
rs31940	G	A	-0.01548	0.00246	3.24E-10
rs10994777	G	A	-0.0146	0.00232	3.36E-10
rs1245829	A	T	-0.01083	0.00173	3.51E-10
rs7796203	G	A	0.01074	0.00171	3.60E-10
rs13145650	C	T	0.01918	0.00306	3.80E-10
rs60483752	G	C	-0.01078	0.00172	3.89E-10
rs77702819	G	T	-0.01863	0.00298	3.92E-10
rs4839155	T	G	0.01251	0.002	3.94E-10
rs2496482	C	T	-0.01109	0.00177	4.04E-10
rs13035874	A	G	-0.01114	0.00178	4.34E-10
rs1827540	G	A	-0.0106	0.0017	4.50E-10
rs13010566	A	C	-0.0106	0.0017	4.59E-10
rs12290350	T	C	0.013	0.00209	4.70E-10
rs36119825	G	A	-0.01063	0.00171	4.82E-10
rs2478208	C	G	-0.0106	0.0017	4.82E-10
rs10460095	G	A	0.01066	0.00171	4.87E-10
rs61757207	G	A	-0.04941	0.00795	5.09E-10
rs1952183	G	A	0.01055	0.0017	5.57E-10

rs34485537	T	C	0.01075	0.00173	5.67E-10
rs73301698	A	G	-0.01291	0.00208	5.81E-10
rs6821231	C	T	0.01217	0.00197	6.06E-10
rs1979969	G	T	0.01208	0.00195	6.17E-10
rs892612	C	A	0.01464	0.00237	6.63E-10
rs10940921	G	T	-0.01089	0.00177	7.00E-10
rs13147223	A	G	0.01087	0.00176	7.09E-10
rs13029509	A	G	-0.01049	0.0017	7.17E-10
rs10205801	A	G	-0.01053	0.00171	7.17E-10
rs7108020	C	A	-0.01094	0.00178	7.35E-10
rs10752262	C	T	-0.01072	0.00174	7.80E-10
rs2220926	T	C	-0.01055	0.00172	7.99E-10
rs2034670	G	A	-0.01312	0.00214	8.09E-10
rs17126938	T	C	-0.01536	0.0025	8.14E-10
rs112806496	G	C	0.0187	0.00305	8.28E-10
rs1061801	A	G	-0.01354	0.0022	8.34E-10
rs12574281	A	C	-0.01077	0.00176	8.85E-10
rs9914918	G	A	-0.01155	0.00189	8.90E-10
rs17428076	C	G	0.01216	0.00198	8.90E-10
rs12694681	G	T	-0.01123	0.00183	9.06E-10
rs7603132	G	A	-0.01317	0.00215	9.17E-10
rs2820314	A	C	0.011	0.0018	9.34E-10
rs4328757	T	C	0.01067	0.00174	9.39E-10
rs12712269	C	T	0.01063	0.00174	9.51E-10
rs3800546	G	C	-0.01183	0.00194	9.73E-10
rs11703948	A	G	-0.01737	0.00285	1.06E-09
rs12646216	T	C	0.01062	0.00174	1.10E-09
rs145590108	G	T	-0.02232	0.00367	1.14E-09
rs4976445	T	C	0.012	0.00197	1.16E-09
rs28373063	G	C	-0.01389	0.00229	1.23E-09
rs7257460	T	C	0.01145	0.00189	1.25E-09
rs7332724	T	C	-0.01149	0.00189	1.26E-09
rs4860734	A	G	-0.0114	0.00188	1.29E-09
rs77025239	A	G	-0.01422	0.00234	1.33E-09
rs7188873	A	G	0.0106	0.00175	1.34E-09
rs74545339	A	G	-0.01626	0.00269	1.44E-09
rs67885444	T	C	0.01406	0.00232	1.48E-09
rs6122735	T	C	0.0105	0.00174	1.49E-09
rs4442732	G	A	-0.01063	0.00176	1.49E-09
rs10772644	G	C	-0.01614	0.00267	1.50E-09
rs35316276	C	T	-0.01173	0.00194	1.52E-09
rs72677177	G	A	-0.0105	0.00174	1.55E-09
rs7321274	G	A	-0.01275	0.00211	1.59E-09
rs2706762	T	C	0.01484	0.00246	1.59E-09

rs9704097	A	C	-0.0103	0.00171	1.61E-09
rs1105307	A	G	-0.01173	0.00195	1.67E-09
rs6959891	G	A	-0.01136	0.00189	1.74E-09
rs3768480	G	C	-0.01038	0.00172	1.74E-09
rs2885198	A	G	0.01025	0.0017	1.81E-09
rs80171383	A	G	0.0145	0.00241	1.83E-09
rs1671770	C	A	-0.01342	0.00223	1.91E-09
rs62157915	T	C	-0.02091	0.00348	1.96E-09
rs73496688	T	A	-0.01429	0.00238	2.04E-09
rs242093	A	G	-0.01031	0.00172	2.07E-09
rs11754551	C	T	0.01627	0.00272	2.08E-09
rs8052297	T	G	-0.01029	0.00172	2.10E-09
rs17638867	T	C	0.01329	0.00222	2.11E-09
rs2365376	C	A	-0.0107	0.00179	2.15E-09
rs12503522	C	T	0.01125	0.00188	2.24E-09
rs4846724	G	A	-0.01018	0.0017	2.26E-09
rs78721320	G	A	-0.01307	0.00219	2.28E-09
rs4778058	C	T	0.01017	0.0017	2.40E-09
rs6457996	C	T	-0.01014	0.0017	2.43E-09
rs79375112	G	A	-0.01529	0.00257	2.63E-09
rs6436555	C	A	-0.01012	0.0017	2.70E-09
rs10120798	A	G	-0.01028	0.00173	2.74E-09
rs3890802	A	G	-0.01133	0.00191	2.74E-09
rs12646297	G	A	0.0111	0.00187	2.76E-09
rs4984541	A	G	-0.01233	0.00207	2.77E-09
rs11655029	T	C	-0.0109	0.00183	2.84E-09
rs118093058	T	G	0.01525	0.00257	2.87E-09
rs117799466	G	C	-0.01173	0.00198	2.91E-09
rs710629	A	G	0.01053	0.00177	2.96E-09
rs730384	G	A	-0.01016	0.00171	3.01E-09
rs1569723	A	C	0.01168	0.00197	3.01E-09
rs1925587	C	T	-0.01016	0.00171	3.03E-09
rs1527878	G	A	0.01182	0.00199	3.08E-09
rs71646142	C	T	-0.01286	0.00217	3.11E-09
rs4984682	G	C	0.01202	0.00203	3.13E-09
rs1880692	A	G	0.01008	0.0017	3.17E-09
rs1427298	C	T	-0.0102	0.00172	3.28E-09
rs4964046	G	A	0.01053	0.00178	3.36E-09
rs3796348	G	A	-0.01032	0.00175	3.66E-09
rs1866823	A	G	0.01009	0.00171	3.81E-09
rs112969166	G	C	-0.01008	0.00171	3.81E-09
rs10856785	T	C	-0.01132	0.00192	3.83E-09
rs1599381	A	G	0.01002	0.0017	3.83E-09
rs10519504	T	G	0.01381	0.00235	3.92E-09

rs10795831	T	G	-0.01223	0.00208	3.99E-09
rs7597126	C	T	0.01009	0.00172	4.20E-09
rs1931259	A	G	-0.01237	0.00211	4.30E-09
rs2414072	A	T	-0.01005	0.00171	4.35E-09
rs1405876	G	T	-0.01038	0.00177	4.40E-09
rs11708375	G	C	0.01376	0.00235	4.58E-09
rs13130765	C	G	-0.01014	0.00173	4.69E-09
rs13163062	T	C	0.01007	0.00172	4.71E-09
rs17110109	C	T	0.01023	0.00175	4.71E-09
rs2833483	C	T	0.01974	0.00337	4.77E-09
rs11620355	G	A	-0.01756	0.003	4.77E-09
rs111821073	C	T	-0.01385	0.00237	4.85E-09
rs7012546	C	T	-0.01009	0.00172	4.93E-09
rs7595950	C	T	-0.00993	0.0017	4.99E-09
rs7833201	C	G	-0.01532	0.00262	5.05E-09
rs10417097	G	C	0.01014	0.00174	5.17E-09
rs939400	G	T	0.01031	0.00177	5.28E-09
rs7139165	C	A	-0.01136	0.00195	5.29E-09
rs35919256	C	A	-0.01032	0.00177	5.56E-09
rs9371881	G	A	-0.01036	0.00178	5.76E-09
rs4369924	A	G	0.01362	0.00234	5.82E-09
rs1592757	C	G	-0.01045	0.0018	5.89E-09
rs12682775	T	C	-0.01187	0.00204	5.99E-09
rs17321729	A	G	0.01141	0.00196	6.06E-09
rs6736898	A	G	0.01032	0.00178	6.09E-09
rs9320493	G	A	-0.01394	0.0024	6.13E-09
rs34394051	G	A	0.01392	0.0024	6.20E-09
rs6067645	A	G	-0.01003	0.00173	6.38E-09
rs4728278	C	G	0.01066	0.00184	6.38E-09
rs12151248	C	T	0.01573	0.00271	6.75E-09
rs4675248	G	A	0.01004	0.00173	6.75E-09
rs62142891	G	A	-0.01121	0.00194	6.94E-09
rs7215889	T	C	0.01132	0.00196	7.06E-09
rs9886703	A	T	-0.01315	0.00227	7.14E-09
rs663234	G	C	-0.01005	0.00174	7.39E-09
rs12118513	T	A	0.01215	0.0021	7.47E-09
rs72840994	G	T	0.01247	0.00216	7.77E-09
rs60096640	G	A	-0.01574	0.00273	7.82E-09
rs10906186	C	T	-0.00991	0.00172	7.91E-09
rs59480703	G	C	0.01237	0.00215	8.32E-09
rs12724430	T	G	0.00979	0.0017	8.32E-09
rs11259919	A	G	-0.01093	0.0019	9.31E-09
rs7136760	A	G	0.01018	0.00177	9.36E-09
rs77128898	T	C	-0.02769	0.00482	9.47E-09

rs152603	G	A	0.01019	0.00177	9.47E-09
rs11223560	G	A	-0.00995	0.00173	9.68E-09
rs35518360	A	T	0.01875	0.00327	9.79E-09
rs139244147	G	A	0.02095	0.00365	9.90E-09
rs12908232	A	G	0.00975	0.0017	1.00E-08
rs4641552	C	A	-0.01926	0.00336	1.02E-08
rs10797055	G	A	0.00986	0.00172	1.04E-08
rs56330207	A	G	0.01184	0.00207	1.05E-08
rs71432775	A	G	0.0113	0.00198	1.06E-08
rs115438240	G	T	0.02162	0.00378	1.08E-08
rs3809634	A	G	-0.01058	0.00185	1.09E-08
rs139612798	C	T	0.02918	0.00511	1.11E-08
rs4780563	G	A	0.01398	0.00245	1.12E-08
rs702606	T	C	0.01427	0.0025	1.12E-08
rs6678474	T	A	-0.02927	0.00513	1.13E-08
rs12655753	A	G	-0.02903	0.00509	1.18E-08
rs7117878	A	C	-0.01036	0.00182	1.18E-08
rs743316	T	C	0.01185	0.00208	1.20E-08
rs72486027	C	T	0.01123	0.00197	1.25E-08
rs10879676	T	C	-0.00982	0.00173	1.26E-08
rs7625428	C	T	-0.00989	0.00174	1.26E-08
rs9386319	G	A	0.00991	0.00174	1.27E-08
rs2343094	A	G	0.01029	0.00181	1.29E-08
rs113182709	G	A	-0.03225	0.00567	1.29E-08
rs4760687	G	A	0.01039	0.00183	1.30E-08
rs3781339	T	C	-0.01247	0.00219	1.30E-08
rs997123	C	T	0.00966	0.0017	1.32E-08
rs61996546	C	T	-0.00965	0.0017	1.34E-08
rs11609711	C	G	0.01371	0.00241	1.35E-08
rs4731413	G	A	-0.01211	0.00213	1.37E-08
rs62190914	T	C	0.01001	0.00176	1.38E-08
rs9388490	T	C	0.00972	0.00171	1.43E-08
rs9557378	A	G	-0.01094	0.00193	1.45E-08
rs9513416	G	A	0.01316	0.00232	1.46E-08
rs2702575	C	T	0.00989	0.00175	1.56E-08
rs1335482	C	T	-0.0096	0.0017	1.63E-08
rs28513882	G	A	0.01246	0.00221	1.63E-08
rs2182505	T	C	0.01086	0.00192	1.64E-08
rs28514598	G	A	-0.01003	0.00178	1.67E-08
rs818415	T	G	-0.01235	0.00219	1.72E-08
rs11623285	G	T	0.01413	0.00251	1.72E-08
rs62172885	T	C	-0.01012	0.00179	1.73E-08
rs10402747	C	T	-0.0097	0.00172	1.73E-08
rs9386787	A	G	-0.00958	0.0017	1.82E-08

rs72686126	C	T	0.01862	0.00331	1.88E-08
rs622169	C	T	-0.00999	0.00178	1.89E-08
rs2002058	C	T	0.01211	0.00216	1.97E-08
rs2195086	T	G	0.01282	0.00228	2.00E-08
rs12778624	T	G	0.01099	0.00196	2.02E-08
rs7943853	C	T	-0.01128	0.00201	2.06E-08
rs1007731	C	A	0.0151	0.00269	2.07E-08
rs2283076	A	G	0.01143	0.00204	2.07E-08
rs75708852	A	C	-0.02792	0.00498	2.09E-08
rs1364626	C	T	-0.00956	0.00171	2.15E-08
rs2141277	A	G	0.00952	0.0017	2.16E-08
rs4895650	T	C	0.00965	0.00172	2.16E-08
rs10145520	T	G	-0.01191	0.00213	2.17E-08
rs62439690	G	A	0.01087	0.00194	2.18E-08
rs143386970	T	C	0.016	0.00286	2.20E-08
rs563954	A	G	-0.00976	0.00175	2.29E-08
rs4144624	C	T	0.01338	0.00239	2.30E-08
rs1167827	G	A	-0.00969	0.00173	2.31E-08
rs74701752	G	T	-0.01591	0.00285	2.38E-08
rs11725086	T	C	0.00973	0.00174	2.40E-08
rs55641816	T	C	-0.01462	0.00262	2.40E-08
rs112687095	G	A	-0.01325	0.00238	2.42E-08
rs12716848	A	G	-0.00969	0.00174	2.43E-08
rs6440008	T	C	-0.00976	0.00175	2.44E-08
rs1381247	C	T	-0.01013	0.00182	2.46E-08
rs2787101	C	T	-0.00968	0.00174	2.50E-08
rs16854920	T	C	-0.01007	0.00181	2.51E-08
rs7928622	T	A	0.01011	0.00181	2.52E-08
rs62155873	T	C	-0.01441	0.00259	2.58E-08
rs6535149	T	C	-0.01051	0.00189	2.62E-08
rs35104491	A	G	0.01218	0.00219	2.62E-08
rs1947114	G	A	0.01071	0.00192	2.64E-08
rs77835879	A	G	0.01601	0.00288	2.68E-08
rs2554835	G	A	-0.00974	0.00175	2.69E-08
rs277828	C	A	0.01091	0.00196	2.71E-08
rs10616	T	C	0.0103	0.00185	2.74E-08
rs1408284	C	G	-0.01388	0.0025	2.74E-08
rs7928017	C	A	-0.00953	0.00172	2.83E-08
rs62174974	G	A	0.01191	0.00215	2.83E-08
rs72972965	C	A	-0.01015	0.00183	2.84E-08
rs11681861	G	T	-0.01435	0.00259	2.88E-08
rs28661002	T	C	0.01099	0.00198	2.89E-08
rs12364080	T	C	-0.01389	0.0025	2.89E-08
rs795230	T	C	0.00952	0.00172	2.97E-08

rs2336721	C	T	-0.00996	0.0018	3.05E-08
rs1566504	T	C	0.01126	0.00203	3.05E-08
rs1960603	C	G	0.01096	0.00198	3.07E-08
rs4858670	C	T	0.0101	0.00183	3.22E-08
rs2589091	G	A	0.00949	0.00172	3.26E-08
rs925161	G	C	0.00941	0.0017	3.26E-08
rs2898191	A	C	0.01041	0.00188	3.29E-08
rs73874335	C	T	0.0199	0.00361	3.40E-08
rs59953820	A	T	-0.01595	0.00289	3.50E-08
rs10853455	T	G	-0.01163	0.00211	3.61E-08
rs11627087	A	G	0.01788	0.00325	3.71E-08
rs4904523	G	A	0.00936	0.0017	3.71E-08
rs75755471	A	G	-0.01891	0.00344	3.79E-08
rs72802200	A	G	0.04604	0.00838	3.87E-08
rs12273435	G	A	0.01152	0.0021	3.96E-08
rs13091704	A	C	-0.0108	0.00197	4.11E-08
rs1758747	A	G	0.0101	0.00184	4.13E-08
rs273438	G	A	0.00937	0.00171	4.15E-08
rs7278859	A	T	-0.01013	0.00185	4.15E-08
rs1918394	C	T	-0.01261	0.0023	4.15E-08
rs12030427	G	A	-0.01085	0.00198	4.34E-08
rs4766424	G	C	-0.0141	0.00258	4.43E-08
rs4733264	C	G	-0.00954	0.00174	4.53E-08
rs1461515	G	A	-0.0093	0.0017	4.55E-08
rs6871635	A	G	-0.00946	0.00173	4.63E-08
rs34410	G	C	0.00931	0.0017	4.70E-08
rs10433551	A	G	0.01448	0.00265	4.73E-08
rs535307	A	G	0.01004	0.00184	4.73E-08
rs9384679	T	C	-0.00959	0.00176	4.88E-08
rs7016302	G	C	0.01243	0.00228	4.98E-08

<b>Cognitive Ability instruments (r<sup>2</sup>=0.01; kb:10,000;p&lt;=5e-08)</b>					
SNP	A1	A2	Beta	SE	P
rs10917152	T	C	0.024213	0.004049	2.23E-09
rs7546297	A	G	-0.01998	0.002818	1.33E-12
rs12035012	A	C	-0.02699	0.003312	3.68E-16
rs3791134	A	G	0.016237	0.002839	1.07E-08
rs4660749	T	G	-0.02884	0.004446	8.72E-11
rs1831539	T	C	-0.0172	0.002762	4.72E-10
rs2420551	A	T	-0.0286	0.004344	4.60E-11
rs12124523	T	C	0.032567	0.004887	2.67E-11
rs3128341	T	C	-0.03173	0.003417	1.63E-20
rs6668048	T	C	-0.02146	0.002734	4.24E-15
rs9324380	C	G	0.02378	0.004267	2.50E-08



rs11804556	A	G	0.034049	0.005481	5.24E-10
rs1528204	T	C	-0.01819	0.002774	5.47E-11
rs1144593	A	G	-0.01911	0.002987	1.57E-10
rs112780312	A	G	-0.01828	0.003099	3.66E-09
rs34320898	C	G	0.022869	0.003844	2.70E-09
rs199928	T	C	0.020051	0.003624	3.15E-08
rs2678210	T	C	0.018786	0.003046	6.97E-10
rs10779271	A	G	0.016375	0.002925	2.17E-08
rs12470949	T	C	-0.01717	0.003021	1.32E-08
rs967569	T	C	-0.01798	0.002927	8.21E-10
rs2955280	T	C	-0.01491	0.002734	4.90E-08
rs62131236	T	C	-0.01825	0.003342	4.80E-08
rs7557525	T	C	0.015927	0.002902	4.04E-08
rs58593843	A	G	-0.02768	0.004652	2.67E-09
rs10189857	A	G	0.018995	0.00275	4.91E-12
rs2576835	A	G	-0.01941	0.003206	1.40E-09
rs4852252	T	C	-0.02079	0.002747	3.84E-14
rs11898362	A	G	-0.01798	0.003008	2.25E-09
rs11678106	T	C	0.016086	0.002745	4.62E-09
rs2309812	T	C	0.022835	0.002845	9.95E-16
rs60262711	T	C	0.015949	0.002825	1.65E-08
rs2558096	T	G	-0.01563	0.002774	1.74E-08
rs10189912	A	G	-0.01934	0.002853	1.22E-11
rs3106666	A	G	-0.01659	0.00278	2.42E-09
rs6436555	A	C	0.01905	0.002746	3.99E-12
rs10192369	A	G	-0.01605	0.002744	4.91E-09
rs62194171	T	G	-0.01544	0.002831	4.95E-08
rs1267042	T	C	-0.01654	0.002996	3.40E-08
rs2268894	T	C	0.020785	0.002749	3.98E-14
rs3956504	A	C	0.017902	0.003052	4.47E-09
rs13421971	A	T	0.01738	0.002893	1.88E-09
rs3749034	A	G	-0.01926	0.003322	6.74E-09
rs62181012	T	C	0.021146	0.003511	1.73E-09
rs62198803	A	G	0.019065	0.003225	3.40E-09
rs7573001	C	G	-0.01625	0.00286	1.32E-08
rs1455344	A	G	-0.01618	0.002769	5.20E-09
rs35731967	T	C	0.021838	0.003658	2.38E-09
rs13024268	A	G	-0.01666	0.002879	7.15E-09
rs73139272	T	G	-0.02484	0.004057	9.24E-10
rs6550835	A	G	-0.02481	0.002929	2.44E-17
rs1589652	A	G	0.017094	0.002759	5.82E-10
rs2352974	T	C	-0.03084	0.002751	3.69E-29
rs4687625	T	C	0.019343	0.002748	1.92E-12
rs4485754	A	G	0.018878	0.00334	1.59E-08

rs11720523	A	C	0.018326	0.002773	3.89E-11
rs6770622	A	G	-0.04496	0.006864	5.76E-11
rs7652296	A	G	0.016533	0.002799	3.51E-09
rs3860537	T	C	0.018854	0.003402	2.99E-08
rs13071190	T	C	0.018095	0.002917	5.55E-10
rs59142272	A	G	0.022696	0.003685	7.32E-10
rs10804681	A	T	0.021055	0.003797	2.94E-08
rs12646225	T	C	0.025128	0.004215	2.51E-09
rs2295499	T	C	-0.0164	0.002753	2.59E-09
rs4484297	C	G	0.018267	0.00316	7.45E-09
rs11932971	T	C	0.027484	0.00381	5.46E-13
rs34811474	A	G	0.028996	0.003594	7.15E-16
rs67482514	C	G	-0.01786	0.003229	3.21E-08
rs6819372	A	G	-0.0198	0.002729	4.02E-13
rs1972860	A	G	-0.01756	0.00293	2.09E-09
rs4459994	A	C	0.018552	0.00329	1.71E-08
rs34592089	A	G	-0.05699	0.006462	1.15E-18
rs2726491	A	G	-0.02828	0.002857	4.17E-23
rs6840804	A	G	-0.01659	0.002966	2.25E-08
rs6535809	A	G	0.019647	0.002734	6.65E-13
rs17826816	A	G	0.018375	0.003257	1.68E-08
rs1840847	A	G	0.016342	0.002883	1.44E-08
rs75973558	A	G	0.025636	0.004465	9.42E-09
rs13165296	A	C	0.019636	0.00352	2.44E-08
rs36033	T	C	0.015969	0.002788	1.02E-08
rs1812587	T	G	-0.01734	0.002767	3.68E-10
rs80170948	T	G	0.045381	0.007378	7.69E-10
rs34316	A	C	0.021049	0.002767	2.82E-14
rs166820	A	G	0.024334	0.003599	1.37E-11
rs4308464	C	G	-0.01837	0.002853	1.22E-10
rs76160968	A	G	-0.04171	0.007252	8.84E-09
rs10477894	A	G	-0.01621	0.002908	2.49E-08
rs1438660	A	T	0.015846	0.002874	3.52E-08
rs1145123	T	C	0.020557	0.002772	1.20E-13
rs405321	A	G	-0.01643	0.002975	3.32E-08
rs4463213	A	G	0.019065	0.002732	3.00E-12
rs31768	A	T	0.018177	0.003054	2.65E-09
rs6860963	T	C	0.020262	0.003476	5.57E-09
rs2450333	A	G	-0.01883	0.002799	1.73E-11
rs9503599	T	C	-0.01711	0.002785	8.05E-10
rs566237	A	G	-0.01872	0.002935	1.82E-10
rs6459098	T	C	-0.01615	0.002933	3.67E-08
rs6903716	A	G	0.017758	0.002975	2.39E-09
rs1233578	A	G	-0.0238	0.003903	1.08E-09

rs1280049	A	C	0.014993	0.002729	3.92E-08
rs12190777	A	G	0.01703	0.003092	3.63E-08
rs1906252	A	C	0.031662	0.002741	7.48E-31
rs3823036	T	C	-0.01899	0.002929	9.11E-11
rs9384679	T	C	-0.02672	0.002783	7.94E-22
rs13212044	T	G	-0.01837	0.003242	1.46E-08
rs287879	A	G	-0.01887	0.003075	8.47E-10
rs4725065	A	G	-0.01653	0.002736	1.52E-09
rs115064	T	C	0.016096	0.002814	1.07E-08
rs1580019	A	T	0.016257	0.002876	1.59E-08
rs799444	T	C	0.018415	0.002759	2.48E-11
rs13223152	A	G	0.017645	0.002784	2.34E-10
rs56150095	A	C	-0.02197	0.002747	1.28E-15
rs12535854	C	G	-0.01823	0.002953	6.73E-10
rs2402857	A	G	0.015446	0.00278	2.76E-08
rs4731392	A	G	-0.02174	0.002975	2.69E-13
rs1043595	A	G	0.018957	0.003123	1.27E-09
rs1362739	A	C	0.020945	0.002734	1.83E-14
rs13253386	T	G	-0.02013	0.002748	2.37E-13
rs1473634	A	G	-0.01809	0.002978	1.25E-09
rs10954779	T	C	-0.01638	0.002762	3.04E-09
rs13276212	T	G	0.015071	0.002755	4.48E-08
rs2920940	T	C	-0.02474	0.003252	2.76E-14
rs2111490	A	G	0.015491	0.002753	1.83E-08
rs1106761	A	G	-0.01775	0.002899	9.12E-10
rs4976976	A	G	0.017317	0.002777	4.53E-10
rs2721173	T	C	-0.01623	0.002734	2.89E-09
rs11793831	T	G	0.027834	0.002804	3.25E-23
rs702222	T	C	-0.01983	0.002872	5.02E-12
rs28620532	A	G	-0.01635	0.002889	1.51E-08
rs1057687	A	G	-0.01953	0.003481	2.02E-08
rs913264	T	C	0.019725	0.003026	7.09E-11
rs2987390	C	G	-0.0178	0.003123	1.19E-08
rs7069887	A	C	0.022532	0.003898	7.44E-09
rs2393967	A	C	-0.01871	0.002963	2.70E-10
rs1891273	T	C	0.015414	0.002786	3.17E-08
rs1408579	T	C	0.016049	0.002748	5.23E-09
rs3740422	C	G	-0.0241	0.002912	1.25E-16
rs3896224	A	G	-0.01531	0.002772	3.29E-08
rs35608616	A	G	-0.01809	0.002937	7.33E-10
rs7921305	A	G	0.018192	0.00323	1.77E-08
rs11605348	A	G	-0.01661	0.002896	9.73E-09
rs7941785	A	G	0.015512	0.002841	4.75E-08
rs2373353	A	G	-0.01632	0.002887	1.56E-08

rs2508713	A	T	0.016531	0.002841	5.92E-09
rs7116046	T	C	0.015707	0.002842	3.27E-08
rs2885208	T	C	0.018939	0.003464	4.58E-08
rs17128425	A	T	0.025557	0.004544	1.87E-08
rs329672	T	C	0.01743	0.002853	1.00E-09
rs55754731	T	C	0.021369	0.003675	6.06E-09
rs1054442	A	C	-0.02146	0.002816	2.52E-14
rs1962047	A	G	-0.01953	0.002863	8.89E-12
rs6539284	T	C	-0.01948	0.002827	5.56E-12
rs7312919	C	G	0.018146	0.002915	4.83E-10
rs1727307	A	G	0.017817	0.003007	3.10E-09
rs9569206	A	G	-0.01541	0.002824	4.85E-08
rs3843954	C	G	-0.02076	0.003343	5.31E-10
rs9516855	A	G	0.033427	0.006096	4.19E-08
rs2478286	C	G	-0.02579	0.003127	1.64E-16
rs8006700	A	T	-0.01823	0.00293	4.96E-10
rs176217	T	C	0.026141	0.003989	5.64E-11
rs971681	T	C	-0.01675	0.002807	2.44E-09
rs2239647	A	C	-0.02054	0.002766	1.14E-13
rs11622558	T	C	-0.01751	0.002824	5.66E-10
rs35760956	A	G	0.019798	0.002823	2.35E-12
rs17106817	T	C	0.016911	0.003025	2.26E-08
rs1007934	A	G	0.016077	0.002806	1.00E-08
rs17698580	T	C	0.019033	0.003177	2.09E-09
rs2071407	T	C	-0.02197	0.002859	1.52E-14
rs11634187	T	G	0.022032	0.003857	1.12E-08
rs55881236	T	C	-0.01541	0.002794	3.48E-08
rs7172979	T	G	0.060634	0.009084	2.47E-11
rs72739469	T	C	-0.03436	0.005648	1.18E-09
rs8025964	A	G	0.017031	0.002749	5.78E-10
rs1369429	T	C	0.017633	0.002896	1.15E-09
rs11076962	T	C	0.016936	0.003042	2.57E-08
rs11646221	T	G	0.017735	0.002772	1.57E-10
rs72774059	A	C	0.02713	0.00459	3.41E-09
rs2457192	A	C	-0.01975	0.003131	2.84E-10
rs62029752	A	G	0.019616	0.003149	4.68E-10
rs72773563	A	G	-0.02181	0.003773	7.40E-09
rs9788857	A	C	-0.02024	0.003495	7.03E-09
rs34172651	T	C	-0.0211	0.002962	1.06E-12
rs2008514	A	G	-0.02868	0.002799	1.25E-24
rs2647995	T	C	-0.01975	0.003044	8.68E-11
rs8054299	C	G	-0.02301	0.002927	3.84E-15
rs12446238	A	G	0.016054	0.002742	4.80E-09
rs9888986	A	G	-0.0235	0.004262	3.52E-08

rs7196032	T	C	0.015242	0.002786	4.47E-08
rs8051038	A	G	0.018924	0.003146	1.78E-09
rs2285640	A	G	0.017514	0.002765	2.38E-10
rs4793161	A	G	-0.01772	0.00325	4.97E-08
rs17698176	T	G	-0.02011	0.003566	1.70E-08
rs11079849	T	C	0.016548	0.00296	2.26E-08
rs16951547	T	G	-0.01925	0.0031	5.31E-10
rs66954617	A	G	-0.02088	0.002834	1.72E-13
rs71367283	A	C	0.055974	0.008746	1.55E-10
rs6508220	A	G	-0.02275	0.002737	9.56E-17
rs76608582	A	C	0.042223	0.007581	2.55E-08
rs17002025	A	G	0.025598	0.004261	1.89E-09
rs10411958	T	C	0.016409	0.002759	2.71E-09
rs2072490	T	C	0.016996	0.002745	5.93E-10
rs7248006	T	C	-0.01918	0.00282	1.05E-11
rs144026674	T	C	0.041307	0.007468	3.19E-08
rs889169	A	G	0.016071	0.002892	2.75E-08
rs73068339	C	G	0.018858	0.003046	5.96E-10
rs78084033	A	C	-0.02288	0.004049	1.62E-08
rs6019535	A	G	0.025105	0.002976	3.28E-17
rs2836921	A	G	0.020346	0.002963	6.54E-12
rs5753383	A	G	0.01591	0.002919	5.00E-08
rs4396807	C	G	-0.01573	0.002855	3.58E-08
rs5750830	A	C	0.022891	0.003127	2.46E-13
rs62236533	A	G	0.035363	0.004977	1.20E-12

**Table S2.** Harmonised instruments used in the MR analyses

<b>Table S2a.</b> Harmonised instruments used in the MR analyses investigating the causal effect of genetic liability to ADHD on educational attainment														
SNP	A1.ADHD	A2.ADHD	A1.EA	A2.EA	logOR.ADHD	SE.ADHD	P.ADHD	Beta.EA	SE.EA	P.EA				
rs10262192	A	G	A	G	0.074096	0.0135	3.66E-08	-0.00426	0.0017	0.006107				
rs12410444	A	G	A	G	0.105297	0.0148	1.16E-12	-0.01875	0.00185	1.93E-24	*LD proxy for rs11420276 (r2=0.99)			
rs1427829	A	G	A	G	0.082197	0.0136	1.35E-09	-0.0075	0.00171	5.77E-06				
rs212178	A	G	A	G	-0.1171	0.0205	1.20E-08	0.01252	0.00274	2.45E-06				
rs4858241	T	G	T	G	0.082197	0.0143	8.17E-09	-0.0052	0.00176	0.001566				
rs4916723	A	C	A	C	-0.0778	0.0138	1.81E-08	0.01218	0.00172	7.14E-13				
rs74760947	A	G	A	G	-0.17961	0.0317	1.39E-08	-0.00278	0.00398	0.242435				
rs8039398	T	C	T	C	-0.08	0.0135	2.99E-09	0.011	0.00171	6.27E-11				
rs11591402	A	T	A	T	-0.0924	0.0164	1.76E-08	0.00598	0.00208	0.00202	*Removed during harmonisation			

<b>Table S2b.</b> Harmonised instruments used in the MR analyses investigating the causal effect of genetic liability to ASD on educational attainment														
SNP	A1.ASD	A2.ASD	A1.EA	A2.EA	logOR.ASD	SE.ASD	P.ASD	Beta.EA	SE.EA	P.EA				
rs112635299	T	G	T	G	0.220997	0.0432	3.04E-07	0.018	0.00621	0.00376				
rs1452075	T	C	T	C	0.080704	0.0155	2.07E-07	0.01226	0.00193	2.19E-10				
rs2391769	A	G	A	G	-0.0769	0.0145	1.14E-07	0.00164	0.00178	0.356				
rs325485	A	G	A	G	0.072804	0.0143	3.25E-07	-0.00732	0.00174	2.64E-05				
rs45595836	T	C	T	C	0.138996	0.0272	3.13E-07	-0.00061	0.00344	0.86				
rs6701243	A	C	A	C	0.073501	0.0144	3.07E-07	-0.00353	0.00182	0.0518				
rs910805	A	G	A	G	-0.0957	0.016	2.04E-09	0.00082	0.00201	0.683				
rs10099100	C	G	C	G	0.084304	0.0147	1.07E-08	0.00023	0.0018	0.899	*Removed during harmonisation			

<b>Table S2c.</b> Harmonised instruments used in the MR analyses investigating the causal effect of genetic liability to higher educational attainment on ADHD													
SNP	A1.EA	A2.EA	A1.ADHD	A2.ADHD	Beta.EA	SE.EA	P.EA	logOR.ADHD	SE.ADHD	P.ADHD			
rs10060023	C	T	C	T	-0.01178	0.00182	9.59E-11	0.002002	0.0149	0.8921			
rs1007731	C	A	C	A	0.0151	0.00269	2.07E-08	-0.0177	0.0252	0.4824			
rs1008078	T	C	T	C	-0.01738	0.00173	1.20E-23	0.030199	0.0137	0.02783			
rs10098073	A	C	A	C	-0.01185	0.00171	3.71E-12	-0.0199	0.0135	0.1403			
rs10120798	A	G	A	G	-0.01028	0.00173	2.74E-09	0.048104	0.0136	0.000422			
rs10145520	T	G	T	G	-0.01191	0.00213	2.17E-08	0.025405	0.0174	0.145			
rs10189857	G	A	G	A	-0.01725	0.00171	6.70E-24	0.027505	0.0138	0.04592			
rs10191758	A	G	A	G	-0.01631	0.00175	9.60E-21	0.001599	0.014	0.9081			
rs10205801	A	G	A	G	-0.01053	0.00171	7.17E-10	0.049304	0.0136	0.000277			
rs10215082	A	G	A	G	-0.01303	0.00172	3.33E-14	0.047399	0.0138	0.000598			
rs10402747	C	T	C	T	-0.0097	0.00172	1.73E-08	0.011901	0.0146	0.4143			
rs1043209	A	G	A	G	0.01364	0.00174	4.22E-15	0.017899	0.0139	0.1954			
rs10433551	A	G	A	G	0.01448	0.00265	4.73E-08	-0.0605	0.0228	0.007843			
rs10456918	A	C	A	C	-0.01485	0.00224	3.67E-11	0.020704	0.0176	0.2392			
rs10460095	G	A	G	A	0.01066	0.00171	4.87E-10	-0.0403	0.0137	0.003143			
rs10496091	G	A	G	A	0.01403	0.00188	7.47E-14	-0.0125	0.0151	0.4076			
rs1051474	T	C	T	C	-0.01301	0.00188	4.86E-12	0.0148	0.0151	0.327			
rs10519504	T	G	T	G	0.01381	0.00235	3.92E-09	0.019096	0.0188	0.3092			
rs1054442	C	A	C	A	0.01426	0.00177	8.42E-16	-0.0496	0.0143	0.000517			
rs10616	T	C	T	C	0.0103	0.00185	2.74E-08	0.002597	0.0146	0.8581			
rs1061801	A	G	A	G	-0.01354	0.0022	8.34E-10	0.026603	0.0178	0.1348			
rs10752262	C	T	C	T	-0.01072	0.00174	7.80E-10	0.041604	0.0145	0.004139			
rs10765775	A	G	A	G	0.01488	0.00176	2.62E-17	0.003703	0.014	0.7926			
rs10795831	T	G	T	G	-0.01223	0.00208	3.99E-09	0.006399	0.0162	0.6922			
rs10797055	G	A	G	A	0.00986	0.00172	1.04E-08	-0.0141	0.0138	0.3083			
rs10810099	A	G	A	G	-0.015	0.0019	3.31E-15	0.030898	0.0157	0.04912			
rs10853455	T	G	T	G	-0.01163	0.00211	3.61E-08	0.023697	0.0164	0.1498			

rs10856785	T	C	T	C	-0.01132	0.00192	3.83E-09	0.009396	0.0152	0.5377				
rs10879676	T	C	T	C	-0.00982	0.00173	1.26E-08	0.008097	0.0135	0.5505				
rs10887801	G	T	G	T	-0.01087	0.00171	2.27E-10	0.001001	0.0135	0.9403				
rs10906186	C	T	C	T	-0.00991	0.00172	7.91E-09	0.019203	0.0136	0.1578				
rs10940921	G	T	G	T	-0.01089	0.00177	7.00E-10	0.001802	0.0136	0.8953				
rs10984445	G	A	G	A	-0.01158	0.00171	1.17E-11	0.004601	0.0136	0.7361				
rs10994777	G	A	G	A	-0.0146	0.00232	3.36E-10	0.002804	0.0182	0.8774				
rs11019128	T	C	T	C	-0.01123	0.00175	1.43E-10	0.037103	0.0139	0.007651				
rs11023749	A	G	A	G	0.01132	0.0018	2.96E-10	0.019597	0.0143	0.1704				
rs1105307	A	G	A	G	-0.01173	0.00195	1.67E-09	0.019901	0.0153	0.194				
rs1106090	A	G	A	G	0.01173	0.00175	2.09E-11	0.0004	0.0139	0.9777				
rs11081529	T	C	T	C	0.01311	0.00186	1.82E-12	-0.0163	0.015	0.2783				
rs11123818	G	A	G	A	-0.02081	0.00175	1.72E-32	0.024498	0.014	0.07968				
rs111821073	C	T	C	T	-0.01385	0.00237	4.85E-09	0.004701	0.0185	0.7989				
rs111852224	T	C	T	C	0.01663	0.00262	2.34E-10	-0.0009	0.0214	0.9655				
rs11210934	G	A	G	A	-0.01275	0.00194	4.84E-11	0.082903	0.0153	6.26E-08				
rs11223560	G	A	G	A	-0.00995	0.00173	9.68E-09	0.032802	0.014	0.01868				
rs11259919	A	G	A	G	-0.01093	0.0019	9.31E-09	-0.0041	0.0151	0.7832				
rs113182709	G	A	G	A	-0.03225	0.00567	1.29E-08	0.020101	0.054	0.7093				
rs1143770	C	T	C	T	-0.01136	0.00172	4.31E-11	0.030799	0.0137	0.02452				
rs115438240	G	T	G	T	0.02162	0.00378	1.08E-08	-0.0002	0.0305	0.995				
rs11601122	G	A	G	A	-0.01947	0.0023	2.24E-17	0.036	0.0179	0.04458				
rs11620355	G	A	G	A	-0.01756	0.003	4.77E-09	0.013501	0.0259	0.6027				
rs11623285	G	T	G	T	0.01413	0.00251	1.72E-08	-0.0246	0.0229	0.2833				
rs11627087	A	G	A	G	0.01788	0.00325	3.71E-08	-0.01521	0.0235	0.5187				
rs11635092	A	G	A	G	-0.01231	0.00177	3.89E-12	0.002796	0.016	0.8599				
rs11646221	T	G	T	G	0.01144	0.00172	3.01E-11	-0.0057	0.0137	0.6778				
rs11655029	T	C	T	C	-0.0109	0.00183	2.84E-09	-0.0265	0.0146	0.06964				
rs11657342	A	G	A	G	0.01404	0.00191	1.94E-13	0.0063	0.0167	0.7048				



rs11663602	A	C	A	C	-0.01213	0.0019	1.64E-10	0.046101	0.0152	0.002445				
rs1167827	G	A	G	A	-0.00969	0.00173	2.31E-08	0.029398	0.014	0.03624				
rs11678980	G	A	G	A	0.01744	0.00172	4.29E-24	-0.0465	0.0162	0.004183				
rs11681861	G	T	G	T	-0.01435	0.00259	2.88E-08	0.017095	0.0207	0.4094				
rs11694904	T	C	T	C	0.01215	0.00185	4.78E-11	0.002497	0.015	0.8659				
rs11703948	A	G	A	G	-0.01737	0.00285	1.06E-09	-0.0438	0.0225	0.05219				
rs11725086	T	C	T	C	0.00973	0.00174	2.40E-08	-0.0187	0.0137	0.1721				
rs11732657	A	G	A	G	-0.01274	0.00197	9.54E-11	-0.0027	0.0159	0.8656				
rs11754551	C	T	C	T	0.01627	0.00272	2.08E-09	0.033298	0.0219	0.1288				
rs118093058	T	G	T	G	0.01525	0.00257	2.87E-09	0.006797	0.0213	0.7512				
rs11871429	A	G	A	G	0.01425	0.00202	1.92E-12	-0.0034	0.0158	0.8305				
rs12030427	G	A	G	A	-0.01085	0.00198	4.34E-08	-0.0064	0.0169	0.7039				
rs12151248	C	T	C	T	0.01573	0.00271	6.75E-09	0.005002	0.0215	0.816				
rs12170452	G	A	G	A	-0.01153	0.00171	1.40E-11	-0.0023	0.0137	0.8691				
rs12273435	G	A	G	A	0.01152	0.0021	3.96E-08	-0.0386	0.0183	0.03465				
rs12290350	T	C	T	C	0.013	0.00209	4.70E-10	-0.0273	0.0167	0.1028				
rs12364080	T	C	T	C	-0.01389	0.0025	2.89E-08	-0.0138	0.0204	0.4982				
rs12375949	T	C	T	C	-0.01447	0.00172	3.31E-17	0.028004	0.0137	0.04063				
rs12468040	G	T	G	T	-0.01432	0.00175	2.46E-16	0.043795	0.0141	0.001872				
rs12503522	C	T	C	T	0.01125	0.00188	2.24E-09	-0.011	0.0148	0.4585				
rs12515541	G	T	G	T	0.01135	0.00174	6.95E-11	-0.0092	0.014	0.5129				
rs12574281	A	C	A	C	-0.01077	0.00176	8.85E-10	0.013104	0.0143	0.3609				
rs12602286	T	G	T	G	0.01701	0.00255	2.37E-11	0.013903	0.0204	0.497				
rs12643771	C	T	C	T	-0.01518	0.00184	1.61E-16	0.047396	0.0156	0.002392				
rs12646216	T	C	T	C	0.01062	0.00174	1.10E-09	-0.0077	0.014	0.5828				
rs12646297	G	A	G	A	0.0111	0.00187	2.76E-09	-0.0166	0.0152	0.2755				
rs12655753	A	G	A	G	-0.02903	0.00509	1.18E-08	0.092096	0.0423	0.02954				
rs12682775	T	C	T	C	-0.01187	0.00204	5.99E-09	-0.0003	0.0164	0.9848				
rs12694681	G	T	G	T	-0.01123	0.00183	9.06E-10	0.024703	0.0146	0.08975				

rs12712269	C	T	C	T	0.01063	0.00174	9.51E-10	-0.0059	0.0139	0.6726				
rs12716848	A	G	A	G	-0.00969	0.00174	2.43E-08	0.023199	0.0138	0.09294				
rs12724430	T	G	T	G	0.00979	0.0017	8.32E-09	0.015095	0.0135	0.2634				
rs12778624	T	G	T	G	0.01099	0.00196	2.02E-08	-0.0325	0.0152	0.03255				
rs12908232	A	G	A	G	0.00975	0.0017	1.00E-08	0.006598	0.0135	0.6256				
rs1291818	C	T	C	T	-0.01085	0.0017	1.78E-10	0.030903	0.0141	0.02873				
rs12926704	A	G	A	G	-0.01737	0.00269	1.03E-10	0.020205	0.0208	0.3303				
rs13010288	G	T	G	T	-0.01953	0.00252	1.04E-14	0.044297	0.0195	0.0234				
rs13010566	A	C	A	C	-0.0106	0.0017	4.59E-10	-0.0089	0.0135	0.5107				
rs13029509	A	G	A	G	-0.01049	0.0017	7.17E-10	0.034498	0.0135	0.01088				
rs13035874	A	G	A	G	-0.01114	0.00178	4.34E-10	-0.0016	0.0143	0.9087				
rs13090388	C	T	C	T	-0.02852	0.00184	4.29E-54	0.0009	0.0148	0.9523				
rs13091704	A	C	A	C	-0.0108	0.00197	4.11E-08	0.021096	0.0159	0.1847				
rs13141210	C	T	C	T	-0.01361	0.00172	2.26E-15	0.017604	0.0139	0.2042				
rs13145650	C	T	C	T	0.01918	0.00306	3.80E-10	0.020499	0.0242	0.3975				
rs13163062	T	C	T	C	0.01007	0.00172	4.71E-09	-0.0006	0.0138	0.9639				
rs1334297	A	G	A	G	0.02449	0.00192	3.06E-37	-0.0527	0.0148	0.000379				
rs1335482	C	T	C	T	-0.0096	0.0017	1.63E-08	0.005797	0.0136	0.6686				
rs13422673	C	T	C	T	0.01201	0.0017	1.74E-12	0.0009	0.0135	0.9443				
rs1364626	C	T	C	T	-0.00956	0.00171	2.15E-08	-0.0009	0.0136	0.9452				
rs1381247	C	T	C	T	-0.01013	0.00182	2.46E-08	0.034302	0.0157	0.02897				
rs1391438	T	C	T	C	0.0167	0.00183	5.79E-20	-0.0124	0.0144	0.3905				
rs139244147	G	A	G	A	0.02095	0.00365	9.90E-09	-0.0032	0.03	0.914				
rs1405876	G	T	G	T	-0.01038	0.00177	4.40E-09	0.018001	0.014	0.2001				
rs1427298	C	T	C	T	-0.0102	0.00172	3.28E-09	-0.0056	0.0139	0.687				
rs143163770	T	C	T	C	-0.01625	0.00258	3.22E-10	0.037498	0.0221	0.08925				
rs143386970	T	C	T	C	0.016	0.00286	2.20E-08	-0.0078	0.0241	0.7473				
rs145590108	G	T	G	T	-0.02232	0.00367	1.14E-09	-0.0181	0.0259	0.4842				
rs1461515	G	A	G	A	-0.0093	0.0017	4.55E-08	0.006803	0.0135	0.6152				

rs1475974	C	T	C	T	0.01269	0.0018	2.02E-12	-0.0334	0.0145	0.02095				
rs152603	G	A	G	A	0.01019	0.00177	9.47E-09	-0.0383	0.0144	0.007931				
rs1527878	G	A	G	A	0.01182	0.00199	3.08E-09	-0.0405	0.0158	0.01032				
rs1550816	C	T	C	T	-0.01107	0.00172	1.33E-10	-0.0204	0.0141	0.1464				
rs1558727	C	T	C	T	0.01069	0.0017	3.09E-10	-0.001	0.0138	0.9439				
rs1566085	T	G	T	G	0.01645	0.00171	6.90E-22	0.003404	0.0139	0.8039				
rs1566504	T	C	T	C	0.01126	0.00203	3.05E-08	-0.0098	0.0165	0.554				
rs1569092	A	G	A	G	0.01807	0.00234	1.16E-14	-0.008	0.0195	0.6801				
rs1569723	A	C	A	C	0.01168	0.00197	3.01E-09	-0.0671	0.0156	1.71E-05				
rs1584469	T	C	T	C	-0.01303	0.00185	2.10E-12	0.008999	0.0147	0.5428				
rs1599381	A	G	A	G	0.01002	0.0017	3.83E-09	-0.0225	0.0136	0.09766				
rs1618725	T	C	T	C	0.01477	0.00174	2.22E-17	0.029403	0.0135	0.02883				
rs1620977	G	A	G	A	-0.02046	0.00195	1.14E-25	0.0007	0.0164	0.9647				
rs1671770	C	A	C	A	-0.01342	0.00223	1.91E-09	0.017696	0.018	0.3255				
rs16822665	T	C	T	C	0.01286	0.00185	3.57E-12	-0.0052	0.0144	0.7162				
rs16854920	T	C	T	C	-0.01007	0.00181	2.51E-08	0.033299	0.0153	0.02924				
rs16995054	C	T	C	T	0.0139	0.00208	2.52E-11	0.025605	0.016	0.1099				
rs17048855	A	G	A	G	0.01184	0.00179	3.27E-11	-0.0176	0.0146	0.2263				
rs17060737	C	T	C	T	-0.01192	0.0019	3.18E-10	0.017696	0.0149	0.2343				
rs17110109	C	T	C	T	0.01023	0.00175	4.71E-09	-0.0145	0.0142	0.3064				
rs17126938	T	C	T	C	-0.01536	0.0025	8.14E-10	-0.0134	0.0197	0.4961				
rs17321729	A	G	A	G	0.01141	0.00196	6.06E-09	-0.005	0.0161	0.7564				
rs17425572	G	A	G	A	-0.01224	0.0017	6.89E-13	0.011799	0.0136	0.3858				
rs17489649	A	G	A	G	0.0139	0.00181	1.57E-14	-0.016	0.0143	0.265				
rs17551064	G	A	G	A	-0.01493	0.0023	8.62E-11	0.002303	0.0182	0.901				
rs17563464	A	C	A	C	-0.01477	0.00212	2.89E-12	0.018203	0.0193	0.3457				
rs17565975	A	G	A	G	-0.01142	0.00171	2.56E-11	0.015204	0.0138	0.2734				
rs17570033	G	T	G	T	0.01862	0.00283	4.65E-11	-0.0076	0.0218	0.7278				
rs1758747	A	G	A	G	0.0101	0.00184	4.13E-08	-0.0319	0.0149	0.03205				

rs17598675	C	T	C	T	0.01199	0.0017	1.75E-12	-0.0195	0.0138	0.1577				
rs176218	G	T	G	T	-0.01883	0.00215	1.85E-18	0.012204	0.0171	0.475				
rs17638867	T	C	T	C	0.01329	0.00222	2.11E-09	-0.0106	0.0173	0.5408				
rs1827540	G	A	G	A	-0.0106	0.0017	4.50E-10	0.013703	0.0134	0.3074				
rs1866823	A	G	A	G	0.01009	0.00171	3.81E-09	-0.0013	0.0137	0.927				
rs1880692	A	G	A	G	0.01008	0.0017	3.17E-09	-0.0151	0.0137	0.2685				
rs1892417	C	T	C	T	-0.01732	0.00202	1.12E-17	-0.0263	0.0159	0.09704				
rs1918394	C	T	C	T	-0.01261	0.0023	4.15E-08	0.024498	0.0179	0.172				
rs192436652	C	T	C	T	0.03497	0.00545	1.35E-10	-0.0187	0.0459	0.6832				
rs1925587	C	T	C	T	-0.01016	0.00171	3.03E-09	0.027104	0.0136	0.04583				
rs1931259	A	G	A	G	-0.01237	0.00211	4.30E-09	-0.0007	0.0164	0.9636				
rs1947114	G	A	G	A	0.01071	0.00192	2.64E-08	-0.043	0.0153	0.004817				
rs1952183	G	A	G	A	0.01055	0.0017	5.57E-10	-0.0089	0.0139	0.5227				
rs1964927	G	A	G	A	-0.01423	0.00177	9.90E-16	0.016597	0.0142	0.2444				
rs1979969	G	T	G	T	0.01208	0.00195	6.17E-10	-0.0143	0.015	0.3402				
rs2002058	C	T	C	T	0.01211	0.00216	1.97E-08	-0.0187	0.0174	0.2833				
rs2034670	G	A	G	A	-0.01312	0.00214	8.09E-10	0.005204	0.0171	0.7596				
rs2052285	A	G	A	G	0.01123	0.00175	1.34E-10	-0.0094	0.015	0.5296				
rs2067854	A	G	A	G	0.01477	0.00209	1.38E-12	-0.0263	0.0167	0.1156				
rs2141277	A	G	A	G	0.00952	0.0017	2.16E-08	-0.03381	0.0135	0.01249				
rs2179152	C	T	C	T	0.01455	0.00176	1.21E-16	-0.0119	0.0138	0.3881				
rs2182505	T	C	T	C	0.01086	0.00192	1.64E-08	0.002896	0.015	0.8481				
rs2195086	T	G	T	G	0.01282	0.00228	2.00E-08	0.0161	0.0188	0.3935				
rs2220926	T	C	T	C	-0.01055	0.00172	7.99E-10	-0.002	0.0136	0.8838				
rs2245901	A	G	A	G	-0.01403	0.00174	6.26E-16	0.023199	0.0138	0.09278				
rs2256965	G	A	G	A	-0.01128	0.00176	1.59E-10	0.010202	0.0139	0.4636				
rs2283076	A	G	A	G	0.01143	0.00204	2.07E-08	0.018704	0.0166	0.26				
rs2287838	A	G	A	G	-0.01152	0.00171	1.53E-11	-0.0164	0.0138	0.2335				
rs2297600	G	T	G	T	-0.01569	0.00223	2.16E-12	0.060196	0.0177	0.000678				

rs2302761	T	C	T	C	0.01354	0.00209	1.00E-10	-0.0302	0.0167	0.07012				
rs2336721	C	T	C	T	-0.00996	0.0018	3.05E-08	0.018602	0.0157	0.2367				
rs2343094	A	G	A	G	0.01029	0.00181	1.29E-08	0.007204	0.0142	0.6104				
rs2347526	T	C	T	C	-0.01395	0.00179	6.84E-15	0.034701	0.0143	0.01535				
rs2365376	C	A	C	A	-0.0107	0.00179	2.15E-09	0.029295	0.0144	0.04139				
rs2406253	G	A	G	A	-0.01411	0.00216	6.40E-11	0.013501	0.0171	0.4316				
rs242093	A	G	A	G	-0.01031	0.00172	2.07E-09	0.014297	0.0139	0.3051				
rs2447535	A	G	A	G	-0.01181	0.00185	1.69E-10	0.022202	0.0146	0.1292				
rs2496482	C	T	C	T	-0.01109	0.00177	4.04E-10	0.005797	0.0144	0.6868				
rs2554835	G	A	G	A	-0.00974	0.00175	2.69E-08	-0.0292	0.0145	0.04402				
rs2589091	G	A	G	A	0.00949	0.00172	3.26E-08	0.023105	0.0137	0.09228				
rs268120	A	G	A	G	0.01244	0.00196	2.13E-10	-0.0343	0.0153	0.02487				
rs2702575	C	T	C	T	0.00989	0.00175	1.56E-08	-0.0022	0.0139	0.8752				
rs2706762	T	C	T	C	0.01484	0.00246	1.59E-09	0.001898	0.0201	0.9243				
rs2725370	T	C	T	C	-0.01536	0.00187	1.97E-16	0.032496	0.0148	0.02824				
rs273438	G	A	G	A	0.00937	0.00171	4.15E-08	0.012103	0.0135	0.3698				
rs277828	C	A	C	A	0.01091	0.00196	2.71E-08	-0.0213	0.0162	0.1869				
rs2787101	C	T	C	T	-0.00968	0.00174	2.50E-08	0.038595	0.0138	0.005238				
rs281302	A	G	A	G	-0.0111	0.00172	9.84E-11	0.030597	0.0139	0.02709				
rs2819336	T	C	T	C	0.01828	0.00177	5.46E-25	-0.089	0.0141	2.83E-10				
rs2820314	A	C	A	C	0.011	0.0018	9.34E-10	-0.0371	0.0143	0.009695				
rs2833483	C	T	C	T	0.01974	0.00337	4.77E-09	-0.0131	0.028	0.641				
rs28513670	G	A	G	A	0.01477	0.00225	5.06E-11	-0.0224	0.0178	0.2085				
rs28513882	G	A	G	A	0.01246	0.00221	1.63E-08	-0.0282	0.0179	0.1153				
rs28514598	G	A	G	A	-0.01003	0.00178	1.67E-08	0.033505	0.0143	0.01898				
rs28661002	T	C	T	C	0.01099	0.00198	2.89E-08	0.035502	0.0157	0.02399				
rs2885198	A	G	A	G	0.01025	0.0017	1.81E-09	-0.0148	0.0138	0.284				
rs2898191	A	C	A	C	0.01041	0.00188	3.29E-08	-0.006	0.0147	0.6815				
rs2964197	T	C	T	C	0.01177	0.0017	4.70E-12	-0.0218	0.0135	0.107				

rs2971970	T	G	T	G	-0.01654	0.00207	1.25E-15	0.046196	0.0165	0.005098				
rs2998315	G	A	G	A	0.01269	0.00171	1.12E-13	-0.0147	0.0141	0.2999				
rs301800	T	C	T	C	0.01516	0.00224	1.33E-11	-0.0087	0.0182	0.6308				
rs3026996	A	C	A	C	0.01537	0.00199	1.05E-14	0.007899	0.0162	0.6262				
rs31940	G	A	G	A	-0.01548	0.00246	3.24E-10	0.007498	0.0199	0.7067				
rs337637	G	A	G	A	-0.01123	0.00177	2.11E-10	0.011901	0.0141	0.3964				
rs339054	G	T	G	T	0.0117	0.0017	5.90E-12	-0.021	0.0136	0.1239				
rs34316	C	A	C	A	-0.02016	0.00177	3.35E-30	0.046201	0.0139	0.000857				
rs34394051	G	A	G	A	0.01392	0.0024	6.20E-09	-0.0437	0.0187	0.0191				
rs34485537	T	C	T	C	0.01075	0.00173	5.67E-10	-0.0187	0.014	0.1826				
rs35039375	G	A	G	A	-0.01983	0.00293	1.22E-11	0.001902	0.024	0.9361				
rs35104491	A	G	A	G	0.01218	0.00219	2.62E-08	0.031896	0.0171	0.06193				
rs35309068	G	T	G	T	0.01321	0.00171	1.15E-14	-0.0211	0.0137	0.1239				
rs35316276	C	T	C	T	-0.01173	0.00194	1.52E-09	0.008304	0.0157	0.5951				
rs35417702	C	T	C	T	0.01445	0.0017	1.93E-17	-0.0581	0.0135	1.65E-05				
rs35475880	G	T	G	T	0.01511	0.00208	3.80E-13	0.011405	0.0167	0.4948				
rs35919256	C	A	C	A	-0.01032	0.00177	5.56E-09	0.044903	0.0141	0.001447				
rs36083520	C	T	C	T	0.01629	0.00223	2.60E-13	-0.0119	0.0179	0.5076				
rs36119825	G	A	G	A	-0.01063	0.00171	4.82E-10	0.017502	0.0135	0.1963				
rs363096	C	T	C	T	0.01363	0.00172	2.04E-15	-0.0356	0.0135	0.008441				
rs3781339	T	C	T	C	-0.01247	0.00219	1.30E-08	0.034305	0.0173	0.04671				
rs3796348	G	A	G	A	-0.01032	0.00175	3.66E-09	0.040801	0.0145	0.004865				
rs3809634	A	G	A	G	-0.01058	0.00185	1.09E-08	0.031499	0.0146	0.03046				
rs3812281	C	T	C	T	-0.01228	0.00174	1.58E-12	0.0229	0.0138	0.09719				
rs3890802	A	G	A	G	-0.01133	0.00191	2.74E-09	0.021497	0.0148	0.1473				
rs3897821	A	G	A	G	0.01502	0.0018	8.25E-17	-0.0234	0.0142	0.09846				
rs4073894	A	G	A	G	0.01524	0.00211	5.40E-13	-0.0435	0.0172	0.01126				
rs4144624	C	T	C	T	0.01338	0.00239	2.30E-08	-0.0255	0.0198	0.1974				
rs4328757	T	C	T	C	0.01067	0.00174	9.39E-10	-0.0114	0.0137	0.406				

rs4352658	T	C	T	C	-0.0212	0.00308	5.55E-12	0.055898	0.0255	0.02864				
rs4369924	A	G	A	G	0.01362	0.00234	5.82E-09	-0.0094	0.0198	0.6362				
rs4382592	T	G	T	G	-0.01636	0.00185	1.01E-18	0.037999	0.0145	0.008832				
rs4384309	G	A	G	A	-0.0109	0.00172	2.52E-10	0.009899	0.0142	0.4832				
rs4442732	G	A	G	A	-0.01063	0.00176	1.49E-09	-0.0474	0.0138	0.000592				
rs4641552	C	A	C	A	-0.01926	0.00336	1.02E-08	0.069404	0.0276	0.01204				
rs4652135	C	A	C	A	-0.01219	0.0019	1.54E-10	0.010101	0.0149	0.499				
rs4675248	G	A	G	A	0.01004	0.00173	6.75E-09	-0.0204	0.0139	0.1433				
rs4700393	G	A	G	A	0.02086	0.0017	1.51E-34	-0.0072	0.0135	0.594				
rs4726070	G	A	G	A	-0.01251	0.00174	5.95E-13	0.039698	0.0136	0.003669				
rs4731413	G	A	G	A	-0.01211	0.00213	1.37E-08	-0.0117	0.0179	0.5154				
rs4760687	G	A	G	A	0.01039	0.00183	1.30E-08	-0.0395	0.0148	0.007393				
rs4778058	C	T	C	T	0.01017	0.0017	2.40E-09	-0.0039	0.0137	0.7779				
rs4780563	G	A	G	A	0.01398	0.00245	1.12E-08	-0.0348	0.0204	0.08784				
rs4787457	G	A	G	A	-0.01741	0.00176	3.73E-23	0.0077	0.0139	0.5782				
rs4810227	A	G	A	G	0.01272	0.00175	3.57E-13	-0.0057	0.0139	0.6822				
rs4839155	T	G	T	G	0.01251	0.002	3.94E-10	-0.0205	0.0157	0.1915				
rs4846724	G	A	G	A	-0.01018	0.0017	2.26E-09	-0.0069	0.0135	0.6093				
rs4858670	C	T	C	T	0.0101	0.00183	3.22E-08	-0.0104	0.0144	0.4706				
rs4860734	A	G	A	G	-0.0114	0.00188	1.29E-09	0.006002	0.0153	0.6922				
rs4895650	T	C	T	C	0.00965	0.00172	2.16E-08	0.012195	0.014	0.3819				
rs4904523	G	A	G	A	0.00936	0.0017	3.71E-08	-0.0068	0.0136	0.6143				
rs4964046	G	A	G	A	0.01053	0.00178	3.36E-09	-0.0247	0.0142	0.08106				
rs4972400	G	A	G	A	-0.01156	0.00181	1.70E-10	-0.013	0.0149	0.3834				
rs4976445	T	C	T	C	0.012	0.00197	1.16E-09	-0.0309	0.0156	0.04703				
rs535307	A	G	A	G	0.01004	0.00184	4.73E-08	-0.007	0.0151	0.6425				
rs55641816	T	C	T	C	-0.01462	0.00262	2.40E-08	0.036303	0.0193	0.06042				
rs56048629	T	C	T	C	-0.01654	0.00176	6.76E-21	0.037903	0.0142	0.007581				
rs56194430	T	C	T	C	-0.01514	0.00232	6.65E-11	-0.0098	0.0202	0.628				

rs56330207	A	G	A	G	0.01184	0.00207	1.05E-08	-0.024	0.0167	0.1511				
rs56391344	A	G	A	G	0.01571	0.00197	1.34E-15	-0.034	0.0158	0.03098				
rs563954	A	G	A	G	-0.00976	0.00175	2.29E-08	0.007502	0.0136	0.5791				
rs57016874	C	T	C	T	-0.02902	0.00457	2.09E-10	0.057396	0.0418	0.1694				
rs5763431	T	C	T	C	0.01125	0.00176	1.53E-10	0.0118	0.0139	0.3928				
rs59123361	A	G	A	G	-0.02094	0.00291	5.87E-13	0.035396	0.0236	0.1346				
rs59484001	C	T	C	T	0.02926	0.00391	7.42E-14	-0.0714	0.0338	0.03487				
rs60096640	G	A	G	A	-0.01574	0.00273	7.82E-09	0.041395	0.0208	0.04659				
rs6122735	T	C	T	C	0.0105	0.00174	1.49E-09	-0.0252	0.0137	0.06574				
rs6123924	A	G	A	G	0.01528	0.00235	7.55E-11	-0.0076	0.0183	0.6769				
rs613872	G	T	G	T	0.0175	0.00227	1.20E-14	-0.0145	0.018	0.4204				
rs61757207	G	A	G	A	-0.04941	0.00795	5.09E-10	0.032999	0.0665	0.6195				
rs61996546	C	T	C	T	-0.00965	0.0017	1.34E-08	-0.0061	0.0137	0.6585				
rs62142891	G	A	G	A	-0.01121	0.00194	6.94E-09	0.022102	0.0155	0.1538				
rs62155873	T	C	T	C	-0.01441	0.00259	2.58E-08	0.010099	0.0209	0.6284				
rs62157915	T	C	T	C	-0.02091	0.00348	1.96E-09	0.0252	0.0276	0.3611				
rs62166492	A	G	A	G	0.02846	0.0034	6.03E-17	-0.0416	0.0261	0.111				
rs62172885	T	C	T	C	-0.01012	0.00179	1.73E-08	0.0161	0.0142	0.2555				
rs62174974	G	A	G	A	0.01191	0.00215	2.83E-08	-0.0524	0.017	0.002071				
rs62177359	A	C	A	C	-0.0304	0.00475	1.60E-10	0.036602	0.0331	0.2679				
rs62184480	T	C	T	C	-0.01528	0.00191	1.28E-15	0.035	0.015	0.01961				
rs62190914	T	C	T	C	0.01001	0.00176	1.38E-08	-0.0102	0.0139	0.4639				
rs62439690	G	A	G	A	0.01087	0.00194	2.18E-08	-0.0067	0.0159	0.6763				
rs62444881	C	T	C	T	-0.01815	0.00217	5.79E-17	0.062301	0.0172	0.000291				
rs635754	A	G	A	G	0.0134	0.00173	8.01E-15	0.033996	0.0136	0.01259				
rs6429082	C	T	C	T	0.01078	0.0017	2.37E-10	-0.008	0.0135	0.553				
rs6436555	C	A	C	A	-0.01012	0.0017	2.70E-09	0.003105	0.0137	0.8182				
rs6440008	T	C	T	C	-0.00976	0.00175	2.44E-08	0.017604	0.0145	0.2243				
rs6457996	C	T	C	T	-0.01014	0.0017	2.43E-09	0.036996	0.0137	0.007008				



rs6493265	C	T	C	T	0.01385	0.00174	1.70E-15	-0.0286	0.0139	0.03908				
rs6513959	A	G	A	G	0.01177	0.00185	1.88E-10	-0.0066	0.0148	0.6528				
rs6535149	T	C	T	C	-0.01051	0.00189	2.62E-08	0.0063	0.0165	0.7016				
rs6557171	C	T	C	T	0.01567	0.00181	4.15E-18	-0.0483	0.0146	0.000911				
rs6573552	T	C	T	C	-0.01086	0.0017	1.62E-10	-0.0089	0.0135	0.5083				
rs66568921	G	T	G	T	0.01565	0.00182	7.49E-18	-0.0408	0.0141	0.003921				
rs66641143	T	C	T	C	-0.03162	0.00486	8.04E-11	0.038201	0.0383	0.3193				
rs6666119	A	G	A	G	-0.01269	0.00183	4.16E-12	0.016198	0.0146	0.2671				
rs66671632	C	T	C	T	0.01838	0.00254	4.59E-13	-0.0251	0.021	0.2317				
rs6731373	G	A	G	A	0.01256	0.00181	3.47E-12	-0.0084	0.0147	0.5698				
rs6736898	A	G	A	G	0.01032	0.00178	6.09E-09	-0.0472	0.0141	0.000832				
rs6774533	T	C	T	C	0.0126	0.00187	1.73E-11	0.020205	0.0153	0.1866				
rs67885444	T	C	T	C	0.01406	0.00232	1.48E-09	-0.0069	0.019	0.7174				
rs67890737	C	A	C	A	0.01141	0.00179	2.01E-10	-0.037	0.0141	0.008449				
rs6805241	C	T	C	T	-0.01413	0.00203	3.09E-12	0.030995	0.0163	0.05716				
rs6821231	C	T	C	T	0.01217	0.00197	6.06E-10	-0.0343	0.0158	0.03013				
rs6871635	A	G	A	G	-0.00946	0.00173	4.63E-08	0.032099	0.0141	0.02269				
rs6959891	G	A	G	A	-0.01136	0.00189	1.74E-09	0.008597	0.0148	0.5624				
rs7012546	C	T	C	T	-0.01009	0.00172	4.93E-09	0.009596	0.0137	0.4841				
rs702606	T	C	T	C	0.01427	0.0025	1.12E-08	-0.0008	0.0211	0.9683				
rs7029718	G	A	G	A	-0.02439	0.00174	1.85E-44	0.001601	0.014	0.9067				
rs710629	A	G	A	G	0.01053	0.00177	2.96E-09	-0.0188	0.014	0.1783				
rs7108020	C	A	C	A	-0.01094	0.00178	7.35E-10	0.0044	0.0144	0.7591				
rs7117878	A	C	A	C	-0.01036	0.00182	1.18E-08	0.043902	0.0144	0.002307				
rs7136760	A	G	A	G	0.01018	0.00177	9.36E-09	0.003902	0.0143	0.7845				
rs7139165	C	A	C	A	-0.01136	0.00195	5.29E-09	0.042	0.0146	0.003875				
rs71415374	T	C	T	C	0.02142	0.00307	2.93E-12	-0.0097	0.0237	0.6841				
rs71432775	A	G	A	G	0.0113	0.00198	1.06E-08	-0.0164	0.0153	0.2851				
rs71646142	C	T	C	T	-0.01286	0.00217	3.11E-09	0.0003	0.0174	0.9855				

rs7188873	A	G	A	G	0.0106	0.00175	1.34E-09	-0.0192	0.0138	0.1637				
rs7215889	T	C	T	C	0.01132	0.00196	7.06E-09	-0.0168	0.0155	0.2788				
rs7233920	A	G	A	G	-0.01315	0.00202	7.13E-11	0.028004	0.0163	0.08551				
rs72486027	C	T	C	T	0.01123	0.00197	1.25E-08	0.019897	0.0154	0.1963				
rs7257460	T	C	T	C	0.01145	0.00189	1.25E-09	-0.0515	0.0147	0.000467				
rs72677177	G	A	G	A	-0.0105	0.00174	1.55E-09	-0.0037	0.0138	0.788				
rs72686126	C	T	C	T	0.01862	0.00331	1.88E-08	0.0142	0.0309	0.647				
rs72693550	C	A	C	A	0.01542	0.00234	4.57E-11	0.002603	0.0215	0.9032				
rs728054	G	A	G	A	0.01274	0.00177	6.65E-13	-0.0188	0.0143	0.1878				
rs72828517	C	T	C	T	0.01836	0.00224	2.83E-16	0.038699	0.0179	0.0301				
rs72829857	G	A	G	A	0.01516	0.00202	5.39E-14	-0.031	0.016	0.05191				
rs72840994	G	T	G	T	0.01247	0.00216	7.77E-09	-0.0058	0.0172	0.737				
rs72972965	C	A	C	A	-0.01015	0.00183	2.84E-08	-0.024	0.0138	0.08152				
rs730384	G	A	G	A	-0.01016	0.00171	3.01E-09	0.030098	0.0138	0.02863				
rs7321274	G	A	G	A	-0.01275	0.00211	1.59E-09	0.019295	0.0164	0.2393				
rs73301698	A	G	A	G	-0.01291	0.00208	5.81E-10	0.031101	0.0168	0.06469				
rs7332724	T	C	T	C	-0.01149	0.00189	1.26E-09	0.036197	0.0149	0.01511				
rs73344830	G	A	G	A	-0.0172	0.00172	1.95E-23	0.029995	0.0139	0.0309				
rs736282	C	T	C	T	-0.01082	0.0017	2.07E-10	0.005696	0.0136	0.6759				
rs73874335	C	T	C	T	0.0199	0.00361	3.40E-08	-0.0453	0.0293	0.1227				
rs743316	T	C	T	C	0.01185	0.00208	1.20E-08	-0.0267	0.0164	0.103				
rs74545339	A	G	A	G	-0.01626	0.00269	1.44E-09	-0.0252	0.0213	0.2367				
rs74701752	G	T	G	T	-0.01591	0.00285	2.38E-08	0.036104	0.0223	0.1049				
rs74944275	C	T	C	T	-0.02739	0.00424	1.02E-10	0.028204	0.0346	0.4151				
rs74998289	T	G	T	G	0.01821	0.00213	1.31E-17	-0.046	0.0169	0.006517				
rs7526112	T	G	T	G	0.01215	0.00177	6.10E-12	-0.0071	0.0142	0.6147				
rs75708852	A	C	A	C	-0.02792	0.00498	2.09E-08	0.032002	0.0359	0.3728				
rs75755471	A	G	A	G	-0.01891	0.00344	3.79E-08	0.007998	0.0272	0.7681				
rs7575637	A	G	A	G	0.01136	0.00171	2.86E-11	0.017398	0.0136	0.2008				

rs7595950	C	T	C	T	-0.00993	0.0017	4.99E-09	0.0127	0.0136	0.3475				
rs7597126	C	T	C	T	0.01009	0.00172	4.20E-09	-0.0094	0.0139	0.4966				
rs7603132	G	A	G	A	-0.01317	0.00215	9.17E-10	0.041604	0.0175	0.01774				
rs76076331	C	T	C	T	-0.01873	0.00248	4.40E-14	0.087302	0.0198	1.07E-05				
rs7625428	C	T	C	T	-0.00989	0.00174	1.26E-08	-0.0111	0.014	0.4267				
rs77025239	A	G	A	G	-0.01422	0.00234	1.33E-09	0.005196	0.0185	0.7806				
rs7737905	T	G	T	G	-0.01285	0.00188	8.34E-12	0.038297	0.0152	0.01153				
rs77702819	G	T	G	T	-0.01863	0.00298	3.92E-10	0.033402	0.0266	0.2092				
rs77835879	A	G	A	G	0.01601	0.00288	2.68E-08	0.005803	0.0257	0.8202				
rs7788620	G	A	G	A	-0.01635	0.00206	1.84E-15	0.045196	0.0159	0.004419				
rs7796203	G	A	G	A	0.01074	0.00171	3.60E-10	-0.0177	0.0138	0.1991				
rs7803932	A	G	A	G	0.0143	0.00226	2.44E-10	-0.0268	0.0184	0.1457				
rs790647	C	A	C	A	0.01482	0.00202	2.17E-13	-0.0379	0.0161	0.0184				
rs7924036	T	G	T	G	0.01501	0.0017	1.07E-18	-0.0155	0.0135	0.2511				
rs79265434	A	G	A	G	-0.02331	0.00262	6.08E-19	-0.0479	0.0217	0.02749				
rs79269403	G	A	G	A	-0.01447	0.00204	1.17E-12	0.015601	0.0167	0.3506				
rs7928017	C	A	C	A	-0.00953	0.00172	2.83E-08	0.025205	0.014	0.07177				
rs79375112	G	A	G	A	-0.01529	0.00257	2.63E-09	0.006099	0.021	0.7716				
rs7943853	C	T	C	T	-0.01128	0.00201	2.06E-08	0	0.0161	0.9993				
rs795230	T	C	T	C	0.00952	0.00172	2.97E-08	0.006995	0.0135	0.6058				
rs79523955	A	G	A	G	0.01802	0.00283	1.87E-10	-0.0301	0.0228	0.1854				
rs8008382	T	C	T	C	-0.01208	0.00185	6.12E-11	-0.0215	0.0147	0.1445				
rs80171383	A	G	A	G	0.0145	0.00241	1.83E-09	-0.0548	0.02	0.006232				
rs8020034	G	A	G	A	-0.01782	0.00223	1.17E-15	0.017004	0.0179	0.3421				
rs8052297	T	G	T	G	-0.01029	0.00172	2.10E-09	0.011296	0.0137	0.4088				
rs818415	T	G	T	G	-0.01235	0.00219	1.72E-08	0.014297	0.0176	0.4158				
rs837080	C	T	C	T	0.01092	0.0017	1.43E-10	0.006501	0.0135	0.6321				
rs892612	C	A	C	A	0.01464	0.00237	6.63E-10	-0.0015	0.0188	0.9377				
rs9289300	T	C	T	C	-0.01512	0.00234	1.10E-10	0.033502	0.0188	0.07473				

rs9320493	G	A	G	A	-0.01394	0.0024	6.13E-09	-0.0045	0.0197	0.818				
rs9342482	T	G	T	G	0.01264	0.00197	1.36E-10	0.018596	0.0156	0.231				
rs9349956	A	C	A	C	-0.01881	0.00225	6.28E-17	-0.0071	0.0188	0.7039				
rs9371881	G	A	G	A	-0.01036	0.00178	5.76E-09	0.013298	0.0143	0.3499				
rs9372625	A	G	A	G	0.02383	0.00176	6.76E-42	-0.0177	0.0142	0.2135				
rs9384679	T	C	T	C	-0.00959	0.00176	4.88E-08	-0.0162	0.0141	0.2481				
rs9386319	G	A	G	A	0.00991	0.00174	1.27E-08	-0.0375	0.0138	0.006542				
rs9386787	A	G	A	G	-0.00958	0.0017	1.82E-08	0.011405	0.0135	0.4				
rs9388490	T	C	T	C	0.00972	0.00171	1.43E-08	-0.036	0.0136	0.008059				
rs939400	G	T	G	T	0.01031	0.00177	5.28E-09	-0.0256	0.0139	0.06564				
rs9436866	C	A	C	A	0.01882	0.00289	7.45E-11	0.009404	0.0239	0.695				
rs9503598	A	G	A	G	0.01079	0.00171	3.12E-10	0.009098	0.0138	0.5118				
rs9513416	G	A	G	A	0.01316	0.00232	1.46E-08	-0.0127	0.0188	0.4976				
rs9536961	A	G	A	G	-0.01242	0.0018	4.96E-12	0.023003	0.0148	0.1194				
rs9556958	C	T	C	T	0.0108	0.0017	2.38E-10	-0.005	0.0137	0.7129				
rs9557378	A	G	A	G	-0.01094	0.00193	1.45E-08	0.013804	0.0151	0.3603				
rs9616906	G	A	G	A	-0.01497	0.00172	2.92E-18	0.0242	0.0136	0.07445				
rs9704097	A	C	A	C	-0.0103	0.00171	1.61E-09	0.010198	0.0135	0.4484				
rs9771228	T	C	T	C	0.01182	0.00178	3.07E-11	-0.036	0.0142	0.01107				
rs9882532	C	T	C	T	-0.01208	0.00177	8.17E-12	0.042396	0.0139	0.002354				
rs9914918	G	A	G	A	-0.01155	0.00189	8.90E-10	0.027104	0.0151	0.07359				
rs9936270	T	C	T	C	-0.0136	0.00198	6.43E-12	0.030704	0.0158	0.05264				
rs9964724	C	T	C	T	-0.01978	0.00183	2.66E-27	0.034695	0.0144	0.01551				
rs997123	C	T	C	T	0.00966	0.0017	1.32E-08	-0.0067	0.0136	0.62				
rs998887	A	C	A	C	0.01272	0.0017	7.42E-14	-0.0346	0.0135	0.01034				
rs10120798	A	G	A	G	-0.01028	0.00173	2.74E-09	0.048104	0.0136	0.000422				*Removed from Steiger filtering
rs10205801	A	G	A	G	-0.01053	0.00171	7.17E-10	0.049304	0.0136	0.000277				

rs10215082	A	G	A	G	-0.01303	0.00172	3.33E-14	0.047399	0.0138	0.000598				
rs10433551	A	G	A	G	0.01448	0.00265	4.73E-08	-0.0605	0.0228	0.007843				
rs10460095	G	A	G	A	0.01066	0.00171	4.87E-10	-0.0403	0.0137	0.003143				
rs1054442	C	A	C	A	0.01426	0.00177	8.42E-16	-0.0496	0.0143	0.000517				
rs10752262	C	T	C	T	-0.01072	0.00174	7.80E-10	0.041604	0.0145	0.004139				
rs11019128	T	C	T	C	-0.01123	0.00175	1.43E-10	0.037103	0.0139	0.007651				
rs11210934	G	A	G	A	-0.01275	0.00194	4.84E-11	0.082903	0.0153	6.26E-08				
rs11223560	G	A	G	A	-0.00995	0.00173	9.68E-09	0.032802	0.014	0.01868				
rs1143770	C	T	C	T	-0.01136	0.00172	4.31E-11	0.030799	0.0137	0.02452				
rs11663602	A	C	A	C	-0.01213	0.0019	1.64E-10	0.046101	0.0152	0.002445				
rs1167827	G	A	G	A	-0.00969	0.00173	2.31E-08	0.029398	0.014	0.03624				
rs11678980	G	A	G	A	0.01744	0.00172	4.29E-24	-0.0465	0.0162	0.004183				
rs12273435	G	A	G	A	0.01152	0.0021	3.96E-08	-0.0386	0.0183	0.03465				
rs12468040	G	T	G	T	-0.01432	0.00175	2.46E-16	0.043795	0.0141	0.001872				
rs12643771	C	T	C	T	-0.01518	0.00184	1.61E-16	0.047396	0.0156	0.002392				
rs12655753	A	G	A	G	-0.02903	0.00509	1.18E-08	0.092096	0.0423	0.02954				
rs12778624	T	G	T	G	0.01099	0.00196	2.02E-08	-0.0325	0.0152	0.03255				
rs1291818	C	T	C	T	-0.01085	0.0017	1.78E-10	0.030903	0.0141	0.02873				
rs13029509	A	G	A	G	-0.01049	0.0017	7.17E-10	0.034498	0.0135	0.01088				
rs1381247	C	T	C	T	-0.01013	0.00182	2.46E-08	0.034302	0.0157	0.02897				
rs1475974	C	T	C	T	0.01269	0.0018	2.02E-12	-0.0334	0.0145	0.02095				
rs152603	G	A	G	A	0.01019	0.00177	9.47E-09	-0.0383	0.0144	0.007931				
rs1527878	G	A	G	A	0.01182	0.00199	3.08E-09	-0.0405	0.0158	0.01032				
rs1569723	A	C	A	C	0.01168	0.00197	3.01E-09	-0.0671	0.0156	1.71E-05				
rs16854920	T	C	T	C	-0.01007	0.00181	2.51E-08	0.033299	0.0153	0.02924				
rs1758747	A	G	A	G	0.0101	0.00184	4.13E-08	-0.0319	0.0149	0.03205				
rs1925587	C	T	C	T	-0.01016	0.00171	3.03E-09	0.027104	0.0136	0.04583				
rs1947114	G	A	G	A	0.01071	0.00192	2.64E-08	-0.043	0.0153	0.004817				
rs2141277	A	G	A	G	0.00952	0.0017	2.16E-08	-0.03381	0.0135	0.01249				

rs2297600	G	T	G	T	-0.01569	0.00223	2.16E-12	0.060196	0.0177	0.000678				
rs2365376	C	A	C	A	-0.0107	0.00179	2.15E-09	0.029295	0.0144	0.04139				
rs2554835	G	A	G	A	-0.00974	0.00175	2.69E-08	-0.0292	0.0145	0.04402				
rs268120	A	G	A	G	0.01244	0.00196	2.13E-10	-0.0343	0.0153	0.02487				
rs2787101	C	T	C	T	-0.00968	0.00174	2.50E-08	0.038595	0.0138	0.005238				
rs281302	A	G	A	G	-0.0111	0.00172	9.84E-11	0.030597	0.0139	0.02709				
rs2819336	T	C	T	C	0.01828	0.00177	5.46E-25	-0.089	0.0141	2.83E-10				
rs2820314	A	C	A	C	0.011	0.0018	9.34E-10	-0.0371	0.0143	0.009695				
rs28661002	T	C	T	C	0.01099	0.00198	2.89E-08	0.035502	0.0157	0.02399				
rs2971970	T	G	T	G	-0.01654	0.00207	1.25E-15	0.046196	0.0165	0.005098				
rs34394051	G	A	G	A	0.01392	0.0024	6.20E-09	-0.0437	0.0187	0.0191				
rs35417702	C	T	C	T	0.01445	0.0017	1.93E-17	-0.0581	0.0135	1.65E-05				
rs35919256	C	A	C	A	-0.01032	0.00177	5.56E-09	0.044903	0.0141	0.001447				
rs363096	C	T	C	T	0.01363	0.00172	2.04E-15	-0.0356	0.0135	0.008441				
rs3781339	T	C	T	C	-0.01247	0.00219	1.30E-08	0.034305	0.0173	0.04671				
rs3796348	G	A	G	A	-0.01032	0.00175	3.66E-09	0.040801	0.0145	0.004865				
rs3809634	A	G	A	G	-0.01058	0.00185	1.09E-08	0.031499	0.0146	0.03046				
rs4073894	A	G	A	G	0.01524	0.00211	5.40E-13	-0.0435	0.0172	0.01126				
rs4352658	T	C	T	C	-0.0212	0.00308	5.55E-12	0.055898	0.0255	0.02864				
rs4442732	G	A	G	A	-0.01063	0.00176	1.49E-09	-0.0474	0.0138	0.000592				
rs4641552	C	A	C	A	-0.01926	0.00336	1.02E-08	0.069404	0.0276	0.01204				
rs4726070	G	A	G	A	-0.01251	0.00174	5.95E-13	0.039698	0.0136	0.003669				
rs4760687	G	A	G	A	0.01039	0.00183	1.30E-08	-0.0395	0.0148	0.007393				
rs4976445	T	C	T	C	0.012	0.00197	1.16E-09	-0.0309	0.0156	0.04703				
rs60096640	G	A	G	A	-0.01574	0.00273	7.82E-09	0.041395	0.0208	0.04659				
rs62174974	G	A	G	A	0.01191	0.00215	2.83E-08	-0.0524	0.017	0.002071				
rs62444881	C	T	C	T	-0.01815	0.00217	5.79E-17	0.062301	0.0172	0.000291				
rs6457996	C	T	C	T	-0.01014	0.0017	2.43E-09	0.036996	0.0137	0.007008				
rs6557171	C	T	C	T	0.01567	0.00181	4.15E-18	-0.0483	0.0146	0.000911				

rs66568921	G	T	G	T	0.01565	0.00182	7.49E-18	-0.0408	0.0141	0.003921				
rs6736898	A	G	A	G	0.01032	0.00178	6.09E-09	-0.0472	0.0141	0.000832				
rs67890737	C	A	C	A	0.01141	0.00179	2.01E-10	-0.037	0.0141	0.008449				
rs6821231	C	T	C	T	0.01217	0.00197	6.06E-10	-0.0343	0.0158	0.03013				
rs6871635	A	G	A	G	-0.00946	0.00173	4.63E-08	0.032099	0.0141	0.02269				
rs7117878	A	C	A	C	-0.01036	0.00182	1.18E-08	0.043902	0.0144	0.002307				
rs7139165	C	A	C	A	-0.01136	0.00195	5.29E-09	0.042	0.0146	0.003875				
rs7257460	T	C	T	C	0.01145	0.00189	1.25E-09	-0.0515	0.0147	0.000467				
rs730384	G	A	G	A	-0.01016	0.00171	3.01E-09	0.030098	0.0138	0.02863				
rs7332724	T	C	T	C	-0.01149	0.00189	1.26E-09	0.036197	0.0149	0.01511				
rs7603132	G	A	G	A	-0.01317	0.00215	9.17E-10	0.041604	0.0175	0.01774				
rs76076331	C	T	C	T	-0.01873	0.00248	4.40E-14	0.087302	0.0198	1.07E-05				
rs7737905	T	G	T	G	-0.01285	0.00188	8.34E-12	0.038297	0.0152	0.01153				
rs7788620	G	A	G	A	-0.01635	0.00206	1.84E-15	0.045196	0.0159	0.004419				
rs7928017	C	A	C	A	-0.00953	0.00172	2.83E-08	0.025205	0.014	0.07177				
rs80171383	A	G	A	G	0.0145	0.00241	1.83E-09	-0.0548	0.02	0.006232				
rs9386319	G	A	G	A	0.00991	0.00174	1.27E-08	-0.0375	0.0138	0.006542				
rs9388490	T	C	T	C	0.00972	0.00171	1.43E-08	-0.036	0.0136	0.008059				
rs9771228	T	C	T	C	0.01182	0.00178	3.07E-11	-0.036	0.0142	0.01107				
rs9882532	C	T	C	T	-0.01208	0.00177	8.17E-12	0.042396	0.0139	0.002354				
rs998887	A	C	A	C	0.01272	0.0017	7.42E-14	-0.0346	0.0135	0.01034				
rs10266047	G	C	G	C	0.01132	0.00171	3.27E-11	-0.0095	0.0135	0.4814				*Removed during harmonisation
rs10417097	G	C	G	C	0.01014	0.00174	5.17E-09	-0.0371	0.0142	0.008927				
rs10772644	G	C	G	C	-0.01614	0.00267	1.50E-09	-0.01	0.0209	0.6332				
rs10773002	T	A	T	A	-0.02191	0.00197	8.68E-29	0.030098	0.0159	0.05786				
rs10862376	T	A	T	A	-0.01616	0.00239	1.40E-11	0.0432	0.0193	0.02502				
rs10875121	G	C	G	C	-0.01834	0.00226	5.53E-16	0.031697	0.0177	0.07429				

rs10963297	G	C	G	C	0.01904	0.00198	7.36E-22	0.001101	0.0161	0.9461				
rs11082975	G	C	G	C	0.01309	0.00172	2.52E-14	-0.0336	0.0135	0.01308				
rs112806496	G	C	G	C	0.0187	0.00305	8.28E-10	-0.0086	0.0257	0.737				
rs112969166	G	C	G	C	-0.01008	0.00171	3.81E-09	0.0044	0.0135	0.7443				
rs115000530	T	A	T	A	0.02892	0.00381	3.30E-14	0.019101	0.0315	0.5447				
rs11609711	C	G	C	G	0.01371	0.00241	1.35E-08	0.002996	0.0198	0.8791				
rs11708375	G	C	G	C	0.01376	0.00235	4.58E-09	-0.016	0.0199	0.421				
rs117799466	G	C	G	C	-0.01173	0.00198	2.91E-09	-0.0285	0.017	0.09424				
rs12118513	T	A	T	A	0.01215	0.0021	7.47E-09	-0.0214	0.0177	0.2265				
rs12332731	A	T	A	T	0.01374	0.00218	3.12E-10	-0.0507	0.0177	0.004252				
rs1245829	A	T	A	T	-0.01083	0.00173	3.51E-10	0.025502	0.0141	0.07102				
rs12764593	C	G	C	G	0.02293	0.00358	1.53E-10	-0.0377	0.0306	0.2183				
rs13130765	C	G	C	G	-0.01014	0.00173	4.69E-09	0.008295	0.016	0.6039				
rs1408284	C	G	C	G	-0.01388	0.0025	2.74E-08	0.001699	0.0207	0.9328				
rs1455350	T	A	T	A	0.01614	0.0017	2.61E-21	-0.0218	0.0136	0.1086				
rs1592757	C	G	C	G	-0.01045	0.0018	5.89E-09	0.075098	0.0141	1.08E-07				
rs1689510	G	C	G	C	-0.01761	0.0018	1.40E-22	0.026601	0.0145	0.06714				
rs17428076	C	G	C	G	0.01216	0.00198	8.90E-10	-0.0182	0.0156	0.2435				
rs175325	A	T	A	T	-0.01179	0.00174	1.11E-11	-0.0105	0.0138	0.4458				
rs17568389	A	T	A	T	0.01201	0.0017	1.53E-12	-0.009	0.0135	0.5033				
rs1960603	C	G	C	G	0.01096	0.00198	3.07E-08	-0.0085	0.0159	0.5943				
rs2414072	A	T	A	T	-0.01005	0.00171	4.35E-09	0.016198	0.0136	0.2329				
rs2478208	C	G	C	G	-0.0106	0.0017	4.82E-10	0.009098	0.0136	0.5042				
rs2545798	T	A	T	A	0.01346	0.00171	3.11E-15	0.0008	0.0144	0.9541				
rs28373063	G	C	G	C	-0.01389	0.00229	1.23E-09	0.043503	0.019	0.02188				
rs2923431	C	G	C	G	0.0114	0.00176	9.84E-11	-0.0145	0.0139	0.2979				
rs34410	G	C	G	C	0.00931	0.0017	4.70E-08	-0.0479	0.0136	0.00042				
rs35518360	A	T	A	T	0.01875	0.00327	9.79E-09	-0.0029	0.0292	0.9205				
rs3747631	G	C	G	C	-0.02207	0.00208	2.97E-26	0.0382	0.0165	0.02102				



rs3768480	G	C	G	C	-0.01038	0.00172	1.74E-09	0.011	0.0138	0.4236				
rs3800546	G	C	G	C	-0.01183	0.00194	9.73E-10	-0.0088	0.0155	0.5715				
rs401687	G	C	G	C	-0.01144	0.0017	1.86E-11	0.020305	0.0135	0.1318				
rs406413	A	T	A	T	0.01695	0.00209	4.84E-16	-0.0029	0.0162	0.8578				
rs4728278	C	G	C	G	0.01066	0.00184	6.38E-09	-0.0215	0.0149	0.1481				
rs4733264	C	G	C	G	-0.00954	0.00174	4.53E-08	-0.0044	0.0137	0.7506				
rs4757957	C	G	C	G	0.0141	0.00184	1.81E-14	-0.0364	0.0146	0.01275				
rs4766424	G	C	G	C	-0.0141	0.00258	4.43E-08	0.003105	0.0206	0.8804				
rs4877516	T	A	T	A	0.01163	0.00171	1.02E-11	-0.0084	0.0136	0.5389				
rs4984682	G	C	G	C	0.01202	0.00203	3.13E-09	-0.0504	0.0175	0.003906				
rs55736314	C	G	C	G	-0.01431	0.00174	1.63E-16	0.041698	0.014	0.002897				
rs55771711	C	G	C	G	0.01555	0.00199	5.41E-15	-0.0059	0.0163	0.7155				
rs59480703	G	C	G	C	0.01237	0.00215	8.32E-09	-0.0289	0.0169	0.08745				
rs59953820	A	T	A	T	-0.01595	0.00289	3.50E-08	-0.0223	0.0236	0.3437				
rs60483752	G	C	G	C	-0.01078	0.00172	3.89E-10	0.016201	0.014	0.2455				
rs62247449	C	G	C	G	0.01137	0.00171	3.31E-11	0.014997	0.0138	0.2768				
rs663234	G	C	G	C	-0.01005	0.00174	7.39E-09	0.010505	0.0139	0.4512				
rs6678474	T	A	T	A	-0.02927	0.00513	1.13E-08	0.058297	0.043	0.175				
rs6867851	C	G	C	G	-0.012	0.00173	3.97E-12	0.018998	0.0142	0.181				
rs7016302	G	C	G	C	0.01243	0.00228	4.98E-08	0.001301	0.0182	0.9431				
rs7278859	A	T	A	T	-0.01013	0.00185	4.15E-08	0.036399	0.0146	0.01266				
rs73496688	T	A	T	A	-0.01429	0.00238	2.04E-09	0.007901	0.0193	0.6815				
rs76878669	C	G	C	G	0.01399	0.00205	8.67E-12	0.010999	0.0158	0.4865				
rs7833201	C	G	C	G	-0.01532	0.00262	5.05E-09	0.016601	0.0216	0.4434				
rs7920624	T	A	T	A	-0.01181	0.0017	3.97E-12	0.014099	0.0135	0.2941				
rs7928622	T	A	T	A	0.01011	0.00181	2.52E-08	0.006602	0.0149	0.6547				
rs925161	G	C	G	C	0.00941	0.0017	3.26E-08	-0.0122	0.0135	0.367				
rs9529119	C	G	C	G	0.01295	0.00204	2.13E-10	-0.0182	0.0167	0.2745				
rs969512	T	A	T	A	0.01249	0.00179	3.22E-12	-0.0209	0.0143	0.142				

rs9886703	A	T	A	T	-0.01315	0.00227	7.14E-09	0.029598	0.0187	0.1134				
rs9938678	A	T	A	T	-0.01355	0.00205	4.12E-11	0.021898	0.0169	0.1941				

**Table S2c.** Harmonised instruments used in the MR analyses investigating the causal effect of genetic liability to higher educational attainment on ASD

SNP	A1.EA	A2.EA	A1.ASD	A2.ASD	Beta.EA	SE.EA	P.EA	logOR.ASD	SE.ASD	P.ASD				
rs10060023	C	T	C	T	-0.01178	0.00182	9.59E-11	-0.0026	0.015	0.8641				
rs1007731	C	A	C	A	0.0151	0.00269	2.07E-08	0.024805	0.0242	0.3053				
rs1008078	T	C	T	C	-0.01738	0.00173	1.20E-23	-0.0336	0.0141	0.017				
rs10098073	A	C	A	C	-0.01185	0.00171	3.71E-12	0.004102	0.0139	0.7686				
rs10120798	A	G	A	G	-0.01028	0.00173	2.74E-09	0.002597	0.014	0.851				
rs10145520	T	G	T	G	-0.01191	0.00213	2.17E-08	0.002696	0.0175	0.8763				
rs10189857	G	A	G	A	-0.01725	0.00171	6.70E-24	-0.0043	0.0139	0.7584				
rs10191758	A	G	A	G	-0.01631	0.00175	9.60E-21	-0.0226	0.0142	0.1098				
rs1043209	A	G	A	G	0.01364	0.00174	4.22E-15	-0.0054	0.0142	0.7013				
rs10433551	A	G	A	G	0.01448	0.00265	4.73E-08	0.002297	0.0219	0.9165				
rs10456918	A	C	A	C	-0.01485	0.00224	3.67E-11	0.006995	0.0181	0.6963				
rs10460095	G	A	G	A	0.01066	0.00171	4.87E-10	-0.0002	0.014	0.9912				
rs10496091	G	A	G	A	0.01403	0.00188	7.47E-14	-0.0256	0.0154	0.09636				
rs1051474	T	C	T	C	-0.01301	0.00188	4.86E-12	-0.003	0.0154	0.8438				
rs10519504	T	G	T	G	0.01381	0.00235	3.92E-09	-0.0026	0.0192	0.893				
rs1054442	C	A	C	A	0.01426	0.00177	8.42E-16	0.0008	0.0144	0.9559				
rs10616	T	C	T	C	0.0103	0.00185	2.74E-08	-0.0067	0.015	0.657				
rs1061801	A	G	A	G	-0.01354	0.0022	8.34E-10	-0.0013	0.0182	0.9431				
rs10752262	C	T	C	T	-0.01072	0.00174	7.80E-10	-0.0017	0.0144	0.9035				
rs10765775	A	G	A	G	0.01488	0.00176	2.62E-17	0.019705	0.0141	0.1633				
rs10795831	T	G	T	G	-0.01223	0.00208	3.99E-09	-0.0044	0.0166	0.7927				
rs10797055	G	A	G	A	0.00986	0.00172	1.04E-08	0.0229	0.0139	0.09986				
rs10810099	A	G	A	G	-0.015	0.0019	3.31E-15	-0.0165	0.0159	0.2993				

rs10853455	T	G	T	G	-0.01163	0.00211	3.61E-08	-0.0033	0.0169	0.8464				
rs10856785	T	C	T	C	-0.01132	0.00192	3.83E-09	-0.0022	0.0156	0.8895				
rs10879676	T	C	T	C	-0.00982	0.00173	1.26E-08	0.024	0.0139	0.08393				
rs10887801	G	T	G	T	-0.01087	0.00171	2.27E-10	-0.0011	0.0139	0.9379				
rs10906186	C	T	C	T	-0.00991	0.00172	7.91E-09	0.011	0.0139	0.4303				
rs10940921	G	T	G	T	-0.01089	0.00177	7.00E-10	-0.0028	0.0139	0.8396				
rs10984445	G	A	G	A	-0.01158	0.00171	1.17E-11	0.008002	0.0139	0.5628				
rs10994777	G	A	G	A	-0.0146	0.00232	3.36E-10	-0.0106	0.0186	0.5699				
rs11019128	T	C	T	C	-0.01123	0.00175	1.43E-10	-0.0055	0.0143	0.7002				
rs11023749	A	G	A	G	0.01132	0.0018	2.96E-10	0.013202	0.0146	0.3657				
rs1105307	A	G	A	G	-0.01173	0.00195	1.67E-09	0.018596	0.0157	0.2383				
rs1106090	A	G	A	G	0.01173	0.00175	2.09E-11	0.007403	0.0143	0.6032				
rs11123818	G	A	G	A	-0.02081	0.00175	1.72E-32	-0.0125	0.0142	0.3783				
rs111821073	C	T	C	T	-0.01385	0.00237	4.85E-09	0.014697	0.0189	0.4371				
rs111852224	T	C	T	C	0.01663	0.00262	2.34E-10	0.026798	0.0218	0.2176				
rs11210934	G	A	G	A	-0.01275	0.00194	4.84E-11	0.031305	0.0159	0.04833				
rs11223560	G	A	G	A	-0.00995	0.00173	9.68E-09	0.021898	0.0142	0.1237				
rs11259919	A	G	A	G	-0.01093	0.0019	9.31E-09	0.021204	0.0154	0.1683				
rs112687095	G	A	G	A	-0.01325	0.00238	2.42E-08	0.023996	0.021	0.2527				
rs113182709	G	A	G	A	-0.03225	0.00567	1.29E-08	0.0242	0.0533	0.6497				
rs1143770	C	T	C	T	-0.01136	0.00172	4.31E-11	0.009303	0.014	0.5078				
rs115438240	G	T	G	T	0.02162	0.00378	1.08E-08	0.028297	0.0307	0.3558				
rs11601122	G	A	G	A	-0.01947	0.0023	2.24E-17	-0.0119	0.0182	0.5137				
rs11620355	G	A	G	A	-0.01756	0.003	4.77E-09	-0.0021	0.026	0.9344				
rs11627087	A	G	A	G	0.01788	0.00325	3.71E-08	0.045604	0.0246	0.06383				
rs11635092	A	G	A	G	-0.01231	0.00177	3.89E-12	-0.0251	0.0156	0.1071				
rs11646221	T	G	T	G	0.01144	0.00172	3.01E-11	-0.0029	0.0141	0.836				
rs11655029	T	C	T	C	-0.0109	0.00183	2.84E-09	-0.02481	0.0149	0.09551				
rs11657342	A	G	A	G	0.01404	0.00191	1.94E-13	-0.0002	0.0153	0.9872				

rs1167827	G	A	G	A	-0.00969	0.00173	2.31E-08	0.0168	0.0141	0.2332			
rs11678980	G	A	G	A	0.01744	0.00172	4.29E-24	0.008103	0.0147	0.5785			
rs11681861	G	T	G	T	-0.01435	0.00259	2.88E-08	-1.00E-04	0.0217	0.9958			
rs11694904	T	C	T	C	0.01215	0.00185	4.78E-11	0.025005	0.0153	0.1026			
rs11703948	A	G	A	G	-0.01737	0.00285	1.06E-09	-0.0128	0.0234	0.584			
rs11725086	T	C	T	C	0.00973	0.00174	2.40E-08	0.006797	0.014	0.6286			
rs11732657	A	G	A	G	-0.01274	0.00197	9.54E-11	-0.0013	0.016	0.9375			
rs118093058	T	G	T	G	0.01525	0.00257	2.87E-09	-0.0004	0.0211	0.9864			
rs11871429	A	G	A	G	0.01425	0.00202	1.92E-12	0	0.0163	0.998			
rs12151248	C	T	C	T	0.01573	0.00271	6.75E-09	0.019295	0.0219	0.379			
rs12170452	G	A	G	A	-0.01153	0.00171	1.40E-11	-0.0149	0.0141	0.2909			
rs12273435	G	A	G	A	0.01152	0.0021	3.96E-08	-0.0162	0.0185	0.381			
rs12290350	T	C	T	C	0.013	0.00209	4.70E-10	-0.0149	0.017	0.3816			
rs12364080	T	C	T	C	-0.01389	0.0025	2.89E-08	-0.0074	0.021	0.7222			
rs12375949	T	C	T	C	-0.01447	0.00172	3.31E-17	0.025005	0.014	0.07417			
rs12468040	G	T	G	T	-0.01432	0.00175	2.46E-16	-0.0194	0.0144	0.178			
rs12503522	C	T	C	T	0.01125	0.00188	2.24E-09	0.0127	0.0153	0.404			
rs12515541	G	T	G	T	0.01135	0.00174	6.95E-11	0.020703	0.0144	0.1498			
rs12574281	A	C	A	C	-0.01077	0.00176	8.85E-10	-0.0163	0.0145	0.2604			
rs12602286	T	G	T	G	0.01701	0.00255	2.37E-11	0.017103	0.0208	0.411			
rs12643771	C	T	C	T	-0.01518	0.00184	1.61E-16	0.007599	0.0155	0.6228			
rs12646216	T	C	T	C	0.01062	0.00174	1.10E-09	-0.0128	0.0143	0.3721			
rs12646297	G	A	G	A	0.0111	0.00187	2.76E-09	0.013501	0.0153	0.3768			
rs12655753	A	G	A	G	-0.02903	0.00509	1.18E-08	0.037402	0.0433	0.388			
rs12682775	T	C	T	C	-0.01187	0.00204	5.99E-09	0.0189	0.0169	0.2631			
rs12694681	G	T	G	T	-0.01123	0.00183	9.06E-10	0.010798	0.015	0.4702			
rs12712269	C	T	C	T	0.01063	0.00174	9.51E-10	-0.0066	0.0142	0.6413			
rs12716848	A	G	A	G	-0.00969	0.00174	2.43E-08	0.005803	0.0142	0.6843			
rs12724430	T	G	T	G	0.00979	0.0017	8.32E-09	0.013597	0.0139	0.3262			

rs12778624	T	G	T	G	0.01099	0.00196	2.02E-08	0.004997	0.0156	0.7487				
rs1291818	C	T	C	T	-0.01085	0.0017	1.78E-10	-0.0028	0.0143	0.845				
rs12926704	A	G	A	G	-0.01737	0.00269	1.03E-10	0.008999	0.0213	0.6711				
rs13010288	G	T	G	T	-0.01953	0.00252	1.04E-14	0.012599	0.0201	0.5293				
rs13010566	A	C	A	C	-0.0106	0.0017	4.59E-10	0.0005	0.0138	0.9691				
rs13029509	A	G	A	G	-0.01049	0.0017	7.17E-10	0.020303	0.0139	0.1457				
rs13035874	A	G	A	G	-0.01114	0.00178	4.34E-10	0.015696	0.0147	0.2852				
rs13090388	C	T	C	T	-0.02852	0.00184	4.29E-54	-0.0283	0.0151	0.06069				
rs13091704	A	C	A	C	-0.0108	0.00197	4.11E-08	-0.0043	0.0161	0.7907				
rs13141210	C	T	C	T	-0.01361	0.00172	2.26E-15	-0.0077	0.0142	0.5886				
rs13145650	C	T	C	T	0.01918	0.00306	3.80E-10	0.042104	0.0248	0.08983				
rs13147223	A	G	A	G	0.01087	0.00176	7.09E-10	0.007403	0.0155	0.6332				
rs1334297	A	G	A	G	0.02449	0.00192	3.06E-37	-0.0243	0.0154	0.1141				
rs1335482	C	T	C	T	-0.0096	0.0017	1.63E-08	-1.00E-04	0.014	0.9961				
rs13422673	C	T	C	T	0.01201	0.0017	1.74E-12	0.016404	0.0139	0.2388				
rs1391438	T	C	T	C	0.0167	0.00183	5.79E-20	0.0003	0.0148	0.9865				
rs139244147	G	A	G	A	0.02095	0.00365	9.90E-09	-0.02	0.0307	0.5141				
rs139612798	C	T	C	T	0.02918	0.00511	1.11E-08	0.022696	0.0485	0.6392				
rs1405876	G	T	G	T	-0.01038	0.00177	4.40E-09	-0.0069	0.0144	0.6327				
rs143386970	T	C	T	C	0.016	0.00286	2.20E-08	0.004997	0.0247	0.8387				
rs145590108	G	T	G	T	-0.02232	0.00367	1.14E-09	-0.0189	0.027	0.4838				
rs1475974	C	T	C	T	0.01269	0.0018	2.02E-12	-0.0006	0.0147	0.9652				
rs1527878	G	A	G	A	0.01182	0.00199	3.08E-09	-0.0253	0.0162	0.1176				
rs1550816	C	T	C	T	-0.01107	0.00172	1.33E-10	0.005304	0.0142	0.7082				
rs1558727	C	T	C	T	0.01069	0.0017	3.09E-10	0.003496	0.0139	0.7993				
rs1566504	T	C	T	C	0.01126	0.00203	3.05E-08	0.011296	0.0169	0.5035				
rs1569092	A	G	A	G	0.01807	0.00234	1.16E-14	0.010999	0.0201	0.584				
rs1569723	A	C	A	C	0.01168	0.00197	3.01E-09	0.004201	0.0161	0.7934				
rs1584469	T	C	T	C	-0.01303	0.00185	2.10E-12	0.012097	0.0151	0.4248				

rs1599381	A	G	A	G	0.01002	0.0017	3.83E-09	0.007899	0.0139	0.5719			
rs1618725	T	C	T	C	0.01477	0.00174	2.22E-17	0.023697	0.0138	0.08532			
rs1671770	C	A	C	A	-0.01342	0.00223	1.91E-09	-0.0118	0.0182	0.5144			
rs16854920	T	C	T	C	-0.01007	0.00181	2.51E-08	0.004301	0.0155	0.7793			
rs17048855	A	G	A	G	0.01184	0.00179	3.27E-11	-0.0274	0.0147	0.06236			
rs17060737	C	T	C	T	-0.01192	0.0019	3.18E-10	-0.0238	0.0154	0.1215			
rs17110109	C	T	C	T	0.01023	0.00175	4.71E-09	-0.0141	0.0143	0.3245			
rs17126938	T	C	T	C	-0.01536	0.0025	8.14E-10	-0.0289	0.0201	0.1501			
rs17321729	A	G	A	G	0.01141	0.00196	6.06E-09	0.0003	0.0166	0.9861			
rs17425572	G	A	G	A	-0.01224	0.0017	6.89E-13	0.005304	0.014	0.7032			
rs17489649	A	G	A	G	0.0139	0.00181	1.57E-14	0.016296	0.0147	0.2681			
rs17551064	G	A	G	A	-0.01493	0.0023	8.62E-11	0.0078	0.0188	0.6774			
rs17563464	A	C	A	C	-0.01477	0.00212	2.89E-12	-0.0245	0.0183	0.1793			
rs17565975	A	G	A	G	-0.01142	0.00171	2.56E-11	-0.0056	0.0139	0.6876			
rs17570033	G	T	G	T	0.01862	0.00283	4.65E-11	-0.0093	0.0225	0.6791			
rs17598675	C	T	C	T	0.01199	0.0017	1.75E-12	0.028399	0.0139	0.04131			
rs176218	G	T	G	T	-0.01883	0.00215	1.85E-18	-0.009	0.0174	0.606			
rs17638867	T	C	T	C	0.01329	0.00222	2.11E-09	-0.0122	0.0176	0.4883			
rs1866823	A	G	A	G	0.01009	0.00171	3.81E-09	-0.0001	0.0139	0.9971			
rs1880692	A	G	A	G	0.01008	0.0017	3.17E-09	-0.0108	0.014	0.4404			
rs1892417	C	T	C	T	-0.01732	0.00202	1.12E-17	-0.0338	0.0162	0.03711			
rs1918394	C	T	C	T	-0.01261	0.0023	4.15E-08	0.011304	0.0183	0.5374			
rs1931259	A	G	A	G	-0.01237	0.00211	4.30E-09	0.016001	0.0168	0.3402			
rs1947114	G	A	G	A	0.01071	0.00192	2.64E-08	0.001301	0.0156	0.9356			
rs1952183	G	A	G	A	0.01055	0.0017	5.57E-10	0.010101	0.0142	0.4798			
rs1964927	G	A	G	A	-0.01423	0.00177	9.90E-16	-0.0041	0.0144	0.7789			
rs2002058	C	T	C	T	0.01211	0.00216	1.97E-08	0.013197	0.0181	0.4642			
rs2034670	G	A	G	A	-0.01312	0.00214	8.09E-10	-0.0066	0.0176	0.7057			
rs2052285	A	G	A	G	0.01123	0.00175	1.34E-10	0.008603	0.0142	0.5454			

rs2067854	A	G	A	G	0.01477	0.00209	1.38E-12	0.020498	0.0171	0.2287			
rs2141277	A	G	A	G	0.00952	0.0017	2.16E-08	0.022603	0.0139	0.1032			
rs2179152	C	T	C	T	0.01455	0.00176	1.21E-16	0.033298	0.0142	0.01887			
rs2182505	T	C	T	C	0.01086	0.00192	1.64E-08	0.018704	0.0153	0.2231			
rs2195086	T	G	T	G	0.01282	0.00228	2.00E-08	0.002497	0.0194	0.8983			
rs2220926	T	C	T	C	-0.01055	0.00172	7.99E-10	-0.0111	0.014	0.4282			
rs2245901	A	G	A	G	-0.01403	0.00174	6.26E-16	0.009604	0.0141	0.4976			
rs2256965	G	A	G	A	-0.01128	0.00176	1.59E-10	0.005304	0.0142	0.7075			
rs2283076	A	G	A	G	0.01143	0.00204	2.07E-08	0.001199	0.017	0.9448			
rs2302761	T	C	T	C	0.01354	0.00209	1.00E-10	-0.0272	0.017	0.1093			
rs2336721	C	T	C	T	-0.00996	0.0018	3.05E-08	-0.0247	0.0146	0.0913			
rs2343094	A	G	A	G	0.01029	0.00181	1.29E-08	-0.0175	0.0146	0.2311			
rs2347526	T	C	T	C	-0.01395	0.00179	6.84E-15	0.027897	0.0148	0.05911			
rs2365376	C	A	C	A	-0.0107	0.00179	2.15E-09	-0.008	0.0146	0.5854			
rs2406253	G	A	G	A	-0.01411	0.00216	6.40E-11	-0.0223	0.0176	0.2047			
rs242093	A	G	A	G	-0.01031	0.00172	2.07E-09	0.004102	0.0143	0.7744			
rs2447535	A	G	A	G	-0.01181	0.00185	1.69E-10	0.0285	0.015	0.05679			
rs2496482	C	T	C	T	-0.01109	0.00177	4.04E-10	0.007599	0.0143	0.5929			
rs2554835	G	A	G	A	-0.00974	0.00175	2.69E-08	-0.0076	0.0144	0.5964			
rs2589091	G	A	G	A	0.00949	0.00172	3.26E-08	0.016902	0.014	0.2282			
rs268120	A	G	A	G	0.01244	0.00196	2.13E-10	-0.0077	0.0156	0.6205			
rs2706762	T	C	T	C	0.01484	0.00246	1.59E-09	0.0227	0.0198	0.2515			
rs2725370	T	C	T	C	-0.01536	0.00187	1.97E-16	0.039201	0.0152	0.009881			
rs273438	G	A	G	A	0.00937	0.00171	4.15E-08	-0.014	0.0138	0.3109			
rs277828	C	A	C	A	0.01091	0.00196	2.71E-08	-0.0044	0.0165	0.7907			
rs2787101	C	T	C	T	-0.00968	0.00174	2.50E-08	0.017095	0.0142	0.2292			
rs281302	A	G	A	G	-0.0111	0.00172	9.84E-11	-0.0055	0.0142	0.6985			
rs2819336	T	C	T	C	0.01828	0.00177	5.46E-25	0.0063	0.0145	0.6629			
rs2820314	A	C	A	C	0.011	0.0018	9.34E-10	-0.0108	0.0147	0.4627			

rs28513670	G	A	G	A	0.01477	0.00225	5.06E-11	-0.0005	0.0183	0.9761			
rs28513882	G	A	G	A	0.01246	0.00221	1.63E-08	-0.0016	0.0185	0.9313			
rs28661002	T	C	T	C	0.01099	0.00198	2.89E-08	0.0118	0.0162	0.4664			
rs2885198	A	G	A	G	0.01025	0.0017	1.81E-09	-0.0022	0.0141	0.8782			
rs2898191	A	C	A	C	0.01041	0.00188	3.29E-08	-0.0075	0.015	0.6188			
rs2964197	T	C	T	C	0.01177	0.0017	4.70E-12	0.021801	0.0139	0.1173			
rs2998315	G	A	G	A	0.01269	0.00171	1.12E-13	0.020601	0.0143	0.1495			
rs301800	T	C	T	C	0.01516	0.00224	1.33E-11	0.016296	0.0183	0.3743			
rs3026996	A	C	A	C	0.01537	0.00199	1.05E-14	0.038903	0.0167	0.0196			
rs31940	G	A	G	A	-0.01548	0.00246	3.24E-10	-0.0123	0.0202	0.544			
rs337637	G	A	G	A	-0.01123	0.00177	2.11E-10	-0.0069	0.0145	0.6328			
rs339054	G	T	G	T	0.0117	0.0017	5.90E-12	-0.0071	0.0138	0.6076			
rs34316	C	A	C	A	-0.02016	0.00177	3.35E-30	-0.0068	0.0142	0.6298			
rs34394051	G	A	G	A	0.01392	0.0024	6.20E-09	-0.016	0.0191	0.401			
rs34485537	T	C	T	C	0.01075	0.00173	5.67E-10	0.0007	0.0143	0.9612			
rs35039375	G	A	G	A	-0.01983	0.00293	1.22E-11	-0.0119	0.0251	0.6357			
rs35309068	G	T	G	T	0.01321	0.00171	1.15E-14	0.001701	0.0139	0.9004			
rs35316276	C	T	C	T	-0.01173	0.00194	1.52E-09	0.028996	0.0158	0.06546			
rs35417702	C	T	C	T	0.01445	0.0017	1.93E-17	-0.0292	0.0139	0.03479			
rs35475880	G	T	G	T	0.01511	0.00208	3.80E-13	0.014403	0.0171	0.4012			
rs36083520	C	T	C	T	0.01629	0.00223	2.60E-13	-0.0284	0.0184	0.1225			
rs36119825	G	A	G	A	-0.01063	0.00171	4.82E-10	-0.0037	0.0139	0.7891			
rs363096	C	T	C	T	0.01363	0.00172	2.04E-15	-0.0026	0.014	0.8503			
rs3781339	T	C	T	C	-0.01247	0.00219	1.30E-08	0.019999	0.0177	0.2597			
rs3796348	G	A	G	A	-0.01032	0.00175	3.66E-09	-0.0136	0.0144	0.3447			
rs3809634	A	G	A	G	-0.01058	0.00185	1.09E-08	0.0007	0.0149	0.964			
rs3812281	C	T	C	T	-0.01228	0.00174	1.58E-12	0.003295	0.0142	0.8178			
rs3890802	A	G	A	G	-0.01133	0.00191	2.74E-09	0.006896	0.0153	0.6505			
rs3897821	A	G	A	G	0.01502	0.0018	8.25E-17	0.001798	0.0146	0.8992			



rs4073894	A	G	A	G	0.01524	0.00211	5.40E-13	-0.0113	0.0175	0.5186			
rs4144624	C	T	C	T	0.01338	0.00239	2.30E-08	-0.0197	0.0203	0.3333			
rs4328757	T	C	T	C	0.01067	0.00174	9.39E-10	0.013903	0.0141	0.3263			
rs4352658	T	C	T	C	-0.0212	0.00308	5.55E-12	-0.0253	0.0266	0.342			
rs4382592	T	G	T	G	-0.01636	0.00185	1.01E-18	0.005296	0.015	0.7238			
rs4384309	G	A	G	A	-0.0109	0.00172	2.52E-10	-0.0271	0.0143	0.05833			
rs4641552	C	A	C	A	-0.01926	0.00336	1.02E-08	-0.0105	0.0276	0.7033			
rs4652135	C	A	C	A	-0.01219	0.0019	1.54E-10	-0.0229	0.0152	0.131			
rs4675248	G	A	G	A	0.01004	0.00173	6.75E-09	-0.009	0.0142	0.5272			
rs4700393	G	A	G	A	0.02086	0.0017	1.51E-34	0.0185	0.0138	0.1801			
rs4726070	G	A	G	A	-0.01251	0.00174	5.95E-13	-0.0046	0.014	0.7443			
rs4731413	G	A	G	A	-0.01211	0.00213	1.37E-08	-0.0214	0.0179	0.2325			
rs4760687	G	A	G	A	0.01039	0.00183	1.30E-08	-0.0212	0.0151	0.1597			
rs4778058	C	T	C	T	0.01017	0.0017	2.40E-09	0.003596	0.0141	0.8009			
rs4780563	G	A	G	A	0.01398	0.00245	1.12E-08	0.023596	0.0197	0.2319			
rs4787457	G	A	G	A	-0.01741	0.00176	3.73E-23	0.002603	0.0143	0.8563			
rs4810227	A	G	A	G	0.01272	0.00175	3.57E-13	0.026398	0.0143	0.06557			
rs4839155	T	G	T	G	0.01251	0.002	3.94E-10	0.002497	0.0162	0.8786			
rs4846724	G	A	G	A	-0.01018	0.0017	2.26E-09	-0.0005	0.0139	0.9707			
rs4858670	C	T	C	T	0.0101	0.00183	3.22E-08	-0.0006	0.0147	0.9698			
rs4860734	A	G	A	G	-0.0114	0.00188	1.29E-09	0.0008	0.0155	0.9566			
rs4895650	T	C	T	C	0.00965	0.00172	2.16E-08	-0.0076	0.0142	0.5915			
rs4904523	G	A	G	A	0.00936	0.0017	3.71E-08	0.002804	0.014	0.8429			
rs4964046	G	A	G	A	0.01053	0.00178	3.36E-09	0.012498	0.0145	0.3892			
rs4972400	G	A	G	A	-0.01156	0.00181	1.70E-10	-0.0172	0.0149	0.2482			
rs4976445	T	C	T	C	0.012	0.00197	1.16E-09	-0.0055	0.016	0.732			
rs4984541	A	G	A	G	-0.01233	0.00207	2.77E-09	-0.0224	0.0175	0.2011			
rs535307	A	G	A	G	0.01004	0.00184	4.73E-08	-0.0251	0.0152	0.0991			
rs55641816	T	C	T	C	-0.01462	0.00262	2.40E-08	0.002098	0.0199	0.9162			

rs56048629	T	C	T	C	-0.01654	0.00176	6.76E-21	-0.0172	0.0144	0.2317				
rs56391344	A	G	A	G	0.01571	0.00197	1.34E-15	0.006797	0.0159	0.6702				
rs563954	A	G	A	G	-0.00976	0.00175	2.29E-08	-0.0037	0.0139	0.7879				
rs57016874	C	T	C	T	-0.02902	0.00457	2.09E-10	-0.0848	0.0379	0.02519				
rs5763431	T	C	T	C	0.01125	0.00176	1.53E-10	0.027099	0.0143	0.05797				
rs59123361	A	G	A	G	-0.02094	0.00291	5.87E-13	-0.0087	0.024	0.7181				
rs59484001	C	T	C	T	0.02926	0.00391	7.42E-14	-0.0188	0.0346	0.5862				
rs60096640	G	A	G	A	-0.01574	0.00273	7.82E-09	0.015205	0.0215	0.48				
rs6067645	A	G	A	G	-0.01003	0.00173	6.38E-09	0.001499	0.0153	0.9212				
rs6122735	T	C	T	C	0.0105	0.00174	1.49E-09	0.014199	0.014	0.3122				
rs6123924	A	G	A	G	0.01528	0.00235	7.55E-11	0.031499	0.0189	0.09604				
rs613872	G	T	G	T	0.0175	0.00227	1.20E-14	0.021203	0.0182	0.2439				
rs61996546	C	T	C	T	-0.00965	0.0017	1.34E-08	-0.0078	0.0138	0.5724				
rs62142891	G	A	G	A	-0.01121	0.00194	6.94E-09	-0.0034	0.0157	0.8273				
rs62155873	T	C	T	C	-0.01441	0.00259	2.58E-08	-0.0265	0.0217	0.2218				
rs62157915	T	C	T	C	-0.02091	0.00348	1.96E-09	-0.0253	0.0282	0.3692				
rs62166492	A	G	A	G	0.02846	0.0034	6.03E-17	0.066097	0.0276	0.01641				
rs62172885	T	C	T	C	-0.01012	0.00179	1.73E-08	0.010999	0.0146	0.4524				
rs62174974	G	A	G	A	0.01191	0.00215	2.83E-08	-0.0229	0.0176	0.1925				
rs62177359	A	C	A	C	-0.0304	0.00475	1.60E-10	0.011197	0.033	0.7337				
rs62184480	T	C	T	C	-0.01528	0.00191	1.28E-15	-0.012	0.0153	0.4342				
rs62190914	T	C	T	C	0.01001	0.00176	1.38E-08	-0.0144	0.0143	0.3119				
rs622169	C	T	C	T	-0.00999	0.00178	1.89E-08	-0.0081	0.0163	0.6199				
rs62439690	G	A	G	A	0.01087	0.00194	2.18E-08	0.003105	0.0164	0.8481				
rs62444881	C	T	C	T	-0.01815	0.00217	5.79E-17	0.023299	0.0175	0.1851				
rs6429082	C	T	C	T	0.01078	0.0017	2.37E-10	0.020703	0.0139	0.1357				
rs6436555	C	A	C	A	-0.01012	0.0017	2.70E-09	-0.0204	0.014	0.1454				
rs6440008	T	C	T	C	-0.00976	0.00175	2.44E-08	0.001099	0.0144	0.9371				
rs6457996	C	T	C	T	-0.01014	0.0017	2.43E-09	0.013896	0.014	0.3224				

rs6493265	C	T	C	T	0.01385	0.00174	1.70E-15	-0.0172	0.014	0.2186				
rs6513959	A	G	A	G	0.01177	0.00185	1.88E-10	-0.0065	0.0151	0.6669				
rs6535149	T	C	T	C	-0.01051	0.00189	2.62E-08	-0.0217	0.0155	0.1616				
rs6557171	C	T	C	T	0.01567	0.00181	4.15E-18	-0.0005	0.0148	0.9725				
rs6573552	T	C	T	C	-0.01086	0.0017	1.62E-10	-0.019	0.0138	0.1695				
rs66568921	G	T	G	T	0.01565	0.00182	7.49E-18	-0.0007	0.0145	0.9624				
rs66641143	T	C	T	C	-0.03162	0.00486	8.04E-11	-0.0076	0.0395	0.8474				
rs6666119	A	G	A	G	-0.01269	0.00183	4.16E-12	-0.0136	0.0149	0.363				
rs66671632	C	T	C	T	0.01838	0.00254	4.59E-13	-0.0133	0.0215	0.5351				
rs6736898	A	G	A	G	0.01032	0.00178	6.09E-09	-0.0064	0.0145	0.6606				
rs67885444	T	C	T	C	0.01406	0.00232	1.48E-09	0.015499	0.0195	0.4256				
rs67890737	C	A	C	A	0.01141	0.00179	2.01E-10	0.0003	0.0144	0.9829				
rs6805241	C	T	C	T	-0.01413	0.00203	3.09E-12	-0.0093	0.0167	0.5772				
rs6871635	A	G	A	G	-0.00946	0.00173	4.63E-08	-0.0207	0.0142	0.1444				
rs6959891	G	A	G	A	-0.01136	0.00189	1.74E-09	0.019295	0.0151	0.2018				
rs7012546	C	T	C	T	-0.01009	0.00172	4.93E-09	-0.0209	0.014	0.135				
rs702606	T	C	T	C	0.01427	0.0025	1.12E-08	0.0007	0.0216	0.9751				
rs7029718	G	A	G	A	-0.02439	0.00174	1.85E-44	-0.0398	0.0141	0.0046				
rs710629	A	G	A	G	0.01053	0.00177	2.96E-09	-0.0015	0.0143	0.914				
rs7108020	C	A	C	A	-0.01094	0.00178	7.35E-10	-0.0215	0.0145	0.1391				
rs7136760	A	G	A	G	0.01018	0.00177	9.36E-09	-0.0231	0.0145	0.1126				
rs7139165	C	A	C	A	-0.01136	0.00195	5.29E-09	-0.0219	0.0151	0.1479				
rs71432775	A	G	A	G	0.0113	0.00198	1.06E-08	-0.0017	0.0157	0.9133				
rs71646142	C	T	C	T	-0.01286	0.00217	3.11E-09	-0.0017	0.0178	0.924				
rs7188873	A	G	A	G	0.0106	0.00175	1.34E-09	0.026905	0.0142	0.05695				
rs7215889	T	C	T	C	0.01132	0.00196	7.06E-09	-0.0067	0.016	0.677				
rs7233920	A	G	A	G	-0.01315	0.00202	7.13E-11	-0.0124	0.0167	0.4583				
rs7257460	T	C	T	C	0.01145	0.00189	1.25E-09	-0.0144	0.0152	0.3456				
rs72677177	G	A	G	A	-0.0105	0.00174	1.55E-09	-0.0042	0.0142	0.7656				

rs72686126	C	T	C	T	0.01862	0.00331	1.88E-08	0.011496	0.0313	0.7127			
rs72693550	C	A	C	A	0.01542	0.00234	4.57E-11	-0.0037	0.0198	0.8503			
rs728054	G	A	G	A	0.01274	0.00177	6.65E-13	0.029398	0.0147	0.04576			
rs72829857	G	A	G	A	0.01516	0.00202	5.39E-14	-0.0173	0.0163	0.2882			
rs72840994	G	T	G	T	0.01247	0.00216	7.77E-09	0.014302	0.0176	0.4159			
rs7321274	G	A	G	A	-0.01275	0.00211	1.59E-09	-0.0018	0.0168	0.9155			
rs73301698	A	G	A	G	-0.01291	0.00208	5.81E-10	-0.0047	0.0172	0.7844			
rs7332724	T	C	T	C	-0.01149	0.00189	1.26E-09	0.021096	0.0152	0.1652			
rs73344830	G	A	G	A	-0.0172	0.00172	1.95E-23	-0.0052	0.0142	0.7141			
rs73874335	C	T	C	T	0.0199	0.00361	3.40E-08	0.013703	0.0303	0.6507			
rs743316	T	C	T	C	0.01185	0.00208	1.20E-08	-0.0141	0.017	0.4071			
rs74701752	G	T	G	T	-0.01591	0.00285	2.38E-08	-0.009	0.0228	0.6928			
rs74944275	C	T	C	T	-0.02739	0.00424	1.02E-10	-0.0618	0.0352	0.07905			
rs7526112	T	G	T	G	0.01215	0.00177	6.10E-12	0.016601	0.0145	0.2509			
rs75708852	A	C	A	C	-0.02792	0.00498	2.09E-08	-0.0175	0.0374	0.6405			
rs75755471	A	G	A	G	-0.01891	0.00344	3.79E-08	-0.0069	0.0278	0.8023			
rs7575637	A	G	A	G	0.01136	0.00171	2.86E-11	0.016601	0.0139	0.2337			
rs7595950	C	T	C	T	-0.00993	0.0017	4.99E-09	0.021898	0.014	0.1168			
rs7597126	C	T	C	T	0.01009	0.00172	4.20E-09	0.008304	0.0142	0.5597			
rs7603132	G	A	G	A	-0.01317	0.00215	9.17E-10	0.007196	0.0179	0.6872			
rs77025239	A	G	A	G	-0.01422	0.00234	1.33E-09	-0.0073	0.0192	0.7043			
rs77128898	T	C	T	C	-0.02769	0.00482	9.47E-09	0.060399	0.0529	0.253			
rs7737905	T	G	T	G	-0.01285	0.00188	8.34E-12	0.007601	0.0157	0.6285			
rs77702819	G	T	G	T	-0.01863	0.00298	3.92E-10	-0.0122	0.0256	0.6342			
rs77835879	A	G	A	G	0.01601	0.00288	2.68E-08	-0.0265	0.0257	0.303			
rs7788620	G	A	G	A	-0.01635	0.00206	1.84E-15	0.008496	0.0165	0.6077			
rs7803932	A	G	A	G	0.0143	0.00226	2.44E-10	0.006896	0.0189	0.7141			
rs790647	C	A	C	A	0.01482	0.00202	2.17E-13	0.004601	0.0166	0.7812			
rs7924036	T	G	T	G	0.01501	0.0017	1.07E-18	0.0118	0.0138	0.3919			

rs79265434	A	G	A	G	-0.02331	0.00262	6.08E-19	-0.0532	0.0224	0.0173				
rs79269403	G	A	G	A	-0.01447	0.00204	1.17E-12	0.025102	0.0173	0.146				
rs7928017	C	A	C	A	-0.00953	0.00172	2.83E-08	-0.0144	0.014	0.304				
rs79375112	G	A	G	A	-0.01529	0.00257	2.63E-09	-0.0061	0.0212	0.773				
rs7943853	C	T	C	T	-0.01128	0.00201	2.06E-08	0.001001	0.0165	0.9535				
rs795230	T	C	T	C	0.00952	0.00172	2.97E-08	0.008702	0.0139	0.5302				
rs79523955	A	G	A	G	0.01802	0.00283	1.87E-10	0.019901	0.0235	0.3966				
rs7977614	G	A	G	A	0.01325	0.00198	2.09E-11	-0.0233	0.0184	0.2042				
rs8008382	T	C	T	C	-0.01208	0.00185	6.12E-11	-0.02	0.0152	0.1864				
rs80171383	A	G	A	G	0.0145	0.00241	1.83E-09	0.033802	0.0203	0.09532				
rs8052297	T	G	T	G	-0.01029	0.00172	2.10E-09	-0.0079	0.014	0.5733				
rs818415	T	G	T	G	-0.01235	0.00219	1.72E-08	-0.0176	0.0178	0.3242				
rs892612	C	A	C	A	0.01464	0.00237	6.63E-10	0.020203	0.0195	0.3003				
rs9289300	T	C	T	C	-0.01512	0.00234	1.10E-10	-0.01521	0.0191	0.4262				
rs9320493	G	A	G	A	-0.01394	0.0024	6.13E-09	0.023596	0.0202	0.2431				
rs9342482	T	G	T	G	0.01264	0.00197	1.36E-10	-0.0064	0.0161	0.6914				
rs9349956	A	C	A	C	-0.01881	0.00225	6.28E-17	-0.02599	0.0184	0.1559				
rs9372625	A	G	A	G	0.02383	0.00176	6.76E-42	0.029801	0.0145	0.04039				
rs9384679	T	C	T	C	-0.00959	0.00176	4.88E-08	-0.0187	0.0145	0.1955				
rs9388490	T	C	T	C	0.00972	0.00171	1.43E-08	-0.0089	0.0139	0.524				
rs939400	G	T	G	T	0.01031	0.00177	5.28E-09	-0.0044	0.0143	0.7605				
rs9436866	C	A	C	A	0.01882	0.00289	7.45E-11	0.029903	0.0243	0.2192				
rs9503598	A	G	A	G	0.01079	0.00171	3.12E-10	0.0167	0.014	0.2335				
rs9513416	G	A	G	A	0.01316	0.00232	1.46E-08	0.016495	0.0193	0.3945				
rs9536961	A	G	A	G	-0.01242	0.0018	4.96E-12	-0.003	0.0147	0.8367				
rs9556958	C	T	C	T	0.0108	0.0017	2.38E-10	-0.0098	0.0138	0.4804				
rs9616906	G	A	G	A	-0.01497	0.00172	2.92E-18	0.005304	0.0139	0.701				
rs9704097	A	C	A	C	-0.0103	0.00171	1.61E-09	-0.002	0.0139	0.8852				
rs9771228	T	C	T	C	0.01182	0.00178	3.07E-11	-0.0166	0.0146	0.2548				

rs9914918	G	A	G	A	-0.01155	0.00189	8.90E-10	0.006099	0.0154	0.6904				
rs9936270	T	C	T	C	-0.0136	0.00198	6.43E-12	0.0305	0.0162	0.06026				
rs9964724	C	T	C	T	-0.01978	0.00183	2.66E-27	0.001301	0.0148	0.9311				
rs997123	C	T	C	T	0.00966	0.0017	1.32E-08	0.011304	0.0139	0.4164				
rs998887	A	C	A	C	0.01272	0.0017	7.42E-14	-0.03	0.0139	0.03047				
rs10205801	A	G	A	G	-0.01053	0.00171	7.17E-10	0.031101	0.0139	0.02525	*Removed during Steiger filtering			
rs10215082	A	G	A	G	-0.01303	0.00172	3.33E-14	0.036602	0.0139	0.008287				
rs10402747	C	T	C	T	-0.0097	0.00172	1.73E-08	-0.0292	0.0143	0.04172				
rs11081529	T	C	T	C	0.01311	0.00186	1.82E-12	-0.0362	0.0154	0.01837				
rs11623285	G	T	G	T	0.01413	0.00251	1.72E-08	0.048098	0.0225	0.03249				
rs11663602	A	C	A	C	-0.01213	0.0019	1.64E-10	0.031896	0.0156	0.04043				
rs11754551	C	T	C	T	0.01627	0.00272	2.08E-09	0.045803	0.0224	0.04066				
rs11774212	T	C	T	C	0.01196	0.00171	2.74E-12	-0.0498	0.0152	0.001066				
rs12030427	G	A	G	A	-0.01085	0.00198	4.34E-08	-0.0283	0.0162	0.08073				
rs12908232	A	G	A	G	0.00975	0.0017	1.00E-08	0.028199	0.0138	0.04124				
rs13163062	T	C	T	C	0.01007	0.00172	4.71E-09	0.040095	0.014	0.004313				
rs1364626	C	T	C	T	-0.00956	0.00171	2.15E-08	-0.0299	0.0139	0.03212				
rs1381247	C	T	C	T	-0.01013	0.00182	2.46E-08	0.037401	0.0155	0.01611				
rs1427298	C	T	C	T	-0.0102	0.00172	3.28E-09	-0.0343	0.0141	0.01529				
rs143163770	T	C	T	C	-0.01625	0.00258	3.22E-10	-0.0674	0.0228	0.003107				
rs1461515	G	A	G	A	-0.0093	0.0017	4.55E-08	-0.0271	0.0138	0.04892				
rs152603	G	A	G	A	0.01019	0.00177	9.47E-09	0.028996	0.0147	0.0483				
rs1566085	T	G	T	G	0.01645	0.00171	6.90E-22	0.054602	0.0141	0.000104				
rs1620977	G	A	G	A	-0.02046	0.00195	1.14E-25	-0.0624	0.0162	0.000119				
rs16822665	T	C	T	C	0.01286	0.00185	3.57E-12	0.043404	0.0147	0.003093				
rs16995054	C	T	C	T	0.0139	0.00208	2.52E-11	0.040104	0.0165	0.0149				
rs1758747	A	G	A	G	0.0101	0.00184	4.13E-08	-0.0294	0.0151	0.05165				
rs1827540	G	A	G	A	-0.0106	0.0017	4.50E-10	-0.0282	0.0138	0.04085				

rs192436652	C	T	C	T	0.03497	0.00545	1.35E-10	0.083001	0.0449	0.06469			
rs1925587	C	T	C	T	-0.01016	0.00171	3.03E-09	0.027104	0.0139	0.05146			
rs1979969	G	T	G	T	0.01208	0.00195	6.17E-10	0.036104	0.0153	0.01818			
rs2287838	A	G	A	G	-0.01152	0.00171	1.53E-11	-0.0324	0.0139	0.01944			
rs2297600	G	T	G	T	-0.01569	0.00223	2.16E-12	0.042302	0.0179	0.01809			
rs2702575	C	T	C	T	0.00989	0.00175	1.56E-08	0.0254	0.0143	0.07455			
rs2833483	C	T	C	T	0.01974	0.00337	4.77E-09	0.087499	0.028	0.001748			
rs2971970	T	G	T	G	-0.01654	0.00207	1.25E-15	-0.0465	0.0171	0.006599			
rs35104491	A	G	A	G	0.01218	0.00219	2.62E-08	0.039999	0.0176	0.02341			
rs35919256	C	A	C	A	-0.01032	0.00177	5.56E-09	0.042897	0.0144	0.002934			
rs4369924	A	G	A	G	0.01362	0.00234	5.82E-09	0.044495	0.02	0.02582			
rs4442732	G	A	G	A	-0.01063	0.00176	1.49E-09	-0.0387	0.0142	0.006385			
rs56194430	T	C	T	C	-0.01514	0.00232	6.65E-11	-0.0424	0.0206	0.03928			
rs56330207	A	G	A	G	0.01184	0.00207	1.05E-08	0.035695	0.0169	0.03465			
rs61757207	G	A	G	A	-0.04941	0.00795	5.09E-10	0.145697	0.0615	0.0178			
rs635754	A	G	A	G	0.0134	0.00173	8.01E-15	0.055596	0.0141	7.81E-05			
rs6731373	G	A	G	A	0.01256	0.00181	3.47E-12	0.041395	0.015	0.005796			
rs6774533	T	C	T	C	0.0126	0.00187	1.73E-11	0.0766	0.0157	1.08E-06			
rs6821231	C	T	C	T	0.01217	0.00197	6.06E-10	0.038803	0.0163	0.0175			
rs7117878	A	C	A	C	-0.01036	0.00182	1.18E-08	0.033203	0.0148	0.02471			
rs71415374	T	C	T	C	0.02142	0.00307	2.93E-12	0.0569	0.024	0.01766			
rs72486027	C	T	C	T	0.01123	0.00197	1.25E-08	0.033195	0.0159	0.03706			
rs72828517	C	T	C	T	0.01836	0.00224	2.83E-16	0.061195	0.0183	0.000834			
rs72972965	C	A	C	A	-0.01015	0.00183	2.84E-08	-0.0523	0.0143	0.000245			
rs730384	G	A	G	A	-0.01016	0.00171	3.01E-09	0.039001	0.0141	0.005558			
rs736282	C	T	C	T	-0.01082	0.0017	2.07E-10	-0.0454	0.0139	0.001094			
rs74545339	A	G	A	G	-0.01626	0.00269	1.44E-09	-0.0399	0.0219	0.06931			
rs74998289	T	G	T	G	0.01821	0.00213	1.31E-17	-0.077	0.0172	7.23E-06			
rs76076331	C	T	C	T	-0.01873	0.00248	4.40E-14	0.065499	0.0204	0.001303			

rs7625428	C	T	C	T	-0.00989	0.00174	1.26E-08	-0.0351	0.0143	0.0141				
rs7796203	G	A	G	A	0.01074	0.00171	3.60E-10	0.033298	0.0141	0.01819				
rs78721320	G	A	G	A	-0.01307	0.00219	2.28E-09	0.054805	0.0185	0.003094				
rs8020034	G	A	G	A	-0.01782	0.00223	1.17E-15	-0.05	0.0181	0.005843				
rs837080	C	T	C	T	0.01092	0.0017	1.43E-10	0.035596	0.0139	0.01046				
rs9371881	G	A	G	A	-0.01036	0.00178	5.76E-09	-0.0346	0.0145	0.01722				
rs9386319	G	A	G	A	0.00991	0.00174	1.27E-08	-0.0322	0.0142	0.02318				
rs9386787	A	G	A	G	-0.00958	0.0017	1.82E-08	-0.0301	0.0138	0.02975				
rs9557378	A	G	A	G	-0.01094	0.00193	1.45E-08	-0.0296	0.0156	0.05817				
rs9882532	C	T	C	T	-0.01208	0.00177	8.17E-12	0.052705	0.0143	0.000232				
rs10266047	G	C	G	C	0.01132	0.00171	3.27E-11	0.017696	0.0139	0.2032	*Removed during harmonisation			
rs10417097	G	C	G	C	0.01014	0.00174	5.17E-09	-0.0211	0.0144	0.1426				
rs10772644	G	C	G	C	-0.01614	0.00267	1.50E-09	-0.0184	0.0216	0.395				
rs10773002	T	A	T	A	-0.02191	0.00197	8.68E-29	0.008698	0.0161	0.588				
rs10862376	T	A	T	A	-0.01616	0.00239	1.40E-11	0.012002	0.0196	0.5393				
rs10875121	G	C	G	C	-0.01834	0.00226	5.53E-16	-0.0367	0.0186	0.04853				
rs10963297	G	C	G	C	0.01904	0.00198	7.36E-22	0.006904	0.0163	0.6709				
rs11082975	G	C	G	C	0.01309	0.00172	2.52E-14	-0.0247	0.0139	0.07638				
rs112806496	G	C	G	C	0.0187	0.00305	8.28E-10	-0.0059	0.0263	0.8236				
rs112969166	G	C	G	C	-0.01008	0.00171	3.81E-09	0.004701	0.0138	0.7362				
rs115000530	T	A	T	A	0.02892	0.00381	3.30E-14	-0.0197	0.0323	0.5419				
rs11609711	C	G	C	G	0.01371	0.00241	1.35E-08	0.010396	0.0204	0.6097				
rs11708375	G	C	G	C	0.01376	0.00235	4.58E-09	-0.0114	0.0201	0.5697				
rs117799466	G	C	G	C	-0.01173	0.00198	2.91E-09	-0.0184	0.0156	0.239				
rs12118513	T	A	T	A	0.01215	0.0021	7.47E-09	-0.0238	0.0177	0.1791				
rs12332731	A	T	A	T	0.01374	0.00218	3.12E-10	-0.0201	0.018	0.2632				
rs1245829	A	T	A	T	-0.01083	0.00173	3.51E-10	0.021996	0.0141	0.1171				
rs12764593	C	G	C	G	0.02293	0.00358	1.53E-10	-0.0176	0.0311	0.5712				



rs13130765	C	G	C	G	-0.01014	0.00173	4.69E-09	-0.005	0.0144	0.7293			
rs140711597	C	G	C	G	0.04026	0.0063	1.66E-10	-0.0141	0.067	0.8338			
rs1408284	C	G	C	G	-0.01388	0.0025	2.74E-08	-0.0314	0.0207	0.1291			
rs1455350	T	A	T	A	0.01614	0.0017	2.61E-21	0.035503	0.0139	0.01078			
rs1592757	C	G	C	G	-0.01045	0.0018	5.89E-09	0.042302	0.0145	0.003557			
rs1689510	G	C	G	C	-0.01761	0.0018	1.40E-22	-0.0146	0.0148	0.324			
rs17428076	C	G	C	G	0.01216	0.00198	8.90E-10	0.032303	0.0161	0.04545			
rs175325	A	T	A	T	-0.01179	0.00174	1.11E-11	-0.0037	0.0141	0.7929			
rs17568389	A	T	A	T	0.01201	0.0017	1.53E-12	-0.0113	0.0138	0.414			
rs1960603	C	G	C	G	0.01096	0.00198	3.07E-08	-0.0005	0.0161	0.9744			
rs2414072	A	T	A	T	-0.01005	0.00171	4.35E-09	-0.0055	0.0139	0.6906			
rs2478208	C	G	C	G	-0.0106	0.0017	4.82E-10	-0.0266	0.0139	0.05647			
rs2545798	T	A	T	A	0.01346	0.00171	3.11E-15	0.003998	0.0143	0.7784			
rs28373063	G	C	G	C	-0.01389	0.00229	1.23E-09	0.013501	0.0193	0.4827			
rs2923431	C	G	C	G	0.0114	0.00176	9.84E-11	-0.0109	0.0142	0.4443			
rs34410	G	C	G	C	0.00931	0.0017	4.70E-08	0.011901	0.0139	0.3903			
rs35518360	A	T	A	T	0.01875	0.00327	9.79E-09	-0.047	0.029	0.1046			
rs35532491	T	A	T	A	0.02007	0.00286	2.42E-12	0.021796	0.026	0.4018			
rs3747631	G	C	G	C	-0.02207	0.00208	2.97E-26	0	0.0169	0.9997			
rs3768480	G	C	G	C	-0.01038	0.00172	1.74E-09	-0.01	0.0141	0.4761			
rs3800546	G	C	G	C	-0.01183	0.00194	9.73E-10	-0.04	0.0159	0.01201			
rs401687	G	C	G	C	-0.01144	0.0017	1.86E-11	-0.0258	0.0138	0.06269			
rs406413	A	T	A	T	0.01695	0.00209	4.84E-16	0.069097	0.0168	4.00E-05			
rs4728278	C	G	C	G	0.01066	0.00184	6.38E-09	0.002497	0.0152	0.8689			
rs4733264	C	G	C	G	-0.00954	0.00174	4.53E-08	0.003803	0.0141	0.7866			
rs4757957	C	G	C	G	0.0141	0.00184	1.81E-14	0.001	0.0151	0.9448			
rs4766424	G	C	G	C	-0.0141	0.00258	4.43E-08	-0.0184	0.021	0.3797			
rs4877516	T	A	T	A	0.01163	0.00171	1.02E-11	-0.0098	0.014	0.4819			
rs4984682	G	C	G	C	0.01202	0.00203	3.13E-09	0.008899	0.0167	0.5931			

rs55736314	C	G	C	G	-0.01431	0.00174	1.63E-16	0.035396	0.0143	0.0133				
rs55771711	C	G	C	G	0.01555	0.00199	5.41E-15	0.065797	0.0162	4.70E-05				
rs59480703	G	C	G	C	0.01237	0.00215	8.32E-09	0.026796	0.0175	0.1265				
rs59953820	A	T	A	T	-0.01595	0.00289	3.50E-08	-0.0021	0.024	0.9316				
rs60483752	G	C	G	C	-0.01078	0.00172	3.89E-10	-0.0162	0.0143	0.2579				
rs62247449	C	G	C	G	0.01137	0.00171	3.31E-11	0.025405	0.0141	0.07133				
rs663234	G	C	G	C	-0.01005	0.00174	7.39E-09	-0.0137	0.0142	0.3332				
rs6678474	T	A	T	A	-0.02927	0.00513	1.13E-08	0.055502	0.0443	0.2104				
rs6867851	C	G	C	G	-0.012	0.00173	3.97E-12	-0.0159	0.0144	0.2677				
rs7016302	G	C	G	C	0.01243	0.00228	4.98E-08	0.0298	0.0186	0.1086				
rs7278859	A	T	A	T	-0.01013	0.00185	4.15E-08	-0.0114	0.0149	0.4419				
rs73496688	T	A	T	A	-0.01429	0.00238	2.04E-09	-0.051	0.0196	0.009105				
rs76878669	C	G	C	G	0.01399	0.00205	8.67E-12	0.023697	0.0163	0.1444				
rs7833201	C	G	C	G	-0.01532	0.00262	5.05E-09	0.001099	0.0224	0.9597				
rs7920624	T	A	T	A	-0.01181	0.0017	3.97E-12	-0.0156	0.0138	0.2577				
rs7928622	T	A	T	A	0.01011	0.00181	2.52E-08	0.019101	0.0148	0.1985				
rs925161	G	C	G	C	0.00941	0.0017	3.26E-08	0.013004	0.0139	0.3496				
rs9529119	C	G	C	G	0.01295	0.00204	2.13E-10	-0.0011	0.0171	0.9477				
rs969512	T	A	T	A	0.01249	0.00179	3.22E-12	0.013197	0.0145	0.3652				
rs9886703	A	T	A	T	-0.01315	0.00227	7.14E-09	0.025697	0.0191	0.1788				
rs9938678	A	T	A	T	-0.01355	0.00205	4.12E-11	-0.01	0.0171	0.5599				

**Table S3.** Causal effect estimates of ADHD genetic liability on educational attainment derived from two-sample MR analyses.

Method	N.SNP	Beta	SE	P	95% CI	
Inverse variance weighted	8	-0.10265	0.022538	5.25E-06	-0.14683	-0.05848
MR Egger	8	-0.01291	0.102849	0.904191	-0.2145	0.188672
IGX= 0.5; Suggesting a 50% attenuation of the MR Egger causal effect estimate towards zero						
MR Egger Simex	8	-0.015872	0.138333	0.912	-0.287	0.2552607
Weighted median	8	-0.07982	0.015599	3.10E-07	-0.1104	-0.04925
Weighted mode	8	-0.0809	0.025975	0.016975	-0.13181	-0.02999

**Table S4.** Direct causal effect estimates of genetic liability to ADHD and cognitive ability on educational attainment, as estimated by MVMR analysis.

	Beta	95% CI		Conditional F-statistic	SE	P
Direct effect: ADHD	-0.04924	-0.07579	-0.02269	3	0.013547	0.000363
Direct effect: CA	0.392492	0.354442	0.430541	9	0.019413	3.40E-48
Robust to weak instruments direct effect: ADHD	-0.02241	-0.063	0.035			

**Table S5.** Causal effect estimates of ASD genetic liability on educational attainment derived from two-sample MR analyses.

Method	N.SNP	Beta	SE	P	95% CI	
Inverse variance weighted	7	0.003949	0.031207	0.899301	-0.05722	0.065115
MR Egger	7	0.103776	0.119219	0.42386	-0.12989	0.337446
IGX= 0.63; Suggesting a 37% attenuation of the MR Egger causal effect estimate towards zero						
MR Egger Simex	7	0.13627	0.15449	0.418	-0.16653	0.4390704
Weighted median	7	-0.01166	0.013816	0.398748	-0.03874	0.015421
Weighted mode	7	-0.01768	0.01428	0.261933	-0.04567	0.010309
MR Raps	7	0.030946	0.029614	0.296022	-0.0271	0.088989

**Table S6.** Direct causal effect estimates of genetic liability to ASD and cognitive ability on educational attainment, as estimated by MVMR analysis.

	Beta	95% CI		Conditional F-statistic	SE	P
Direct effect: ASD	0.028262	0.002263	0.054262	3	0.013265	0.03443
Direct effect: CA	0.42195	0.386934	0.456966	31	0.017865	5.09E-58
Robust to weak instruments direct effect: ASD	0.04364388	0.017	0.069			

**Table S7a.** Causal effect estimates of genetic liability to higher educational attainment on risk of ADHD derived from two-sample MR analyses.

Method	N.SNP	OR	SE	P	95% CI	
Inverse variance weighted	400	0.304211	0.079272	6.13E-51	0.260434	0.355348
MR Egger	400	0.381112	0.322415	0.002944	0.202585	0.716964
IGX= 0.63; Suggesting a 37% attenuation of the MR Egger causal effect estimate towards zero.						
MR Egger Simex	400	0.2721037	0.425583	0.00238	0.1181601	0.626611
Weighted median	400	0.318067	0.096573	1.88E-32	0.263217	0.384347
Weighted mode	400	0.462979	0.405596	0.058336	0.209079	1.025208

**Table S7b.** Causal effect estimates of genetic liability to higher educational attainment on risk of ADHD after removing instruments identified to explain more variation in the outcome through Steiger filtering.

Method	N.SNP	OR	SE	P	95% CI	
Inverse variance weighted	318*	0.49566	0.066515	4.97E-26	0.435076	0.56468
MR Egger	318	0.343599	0.260931	5.39E-05	0.206036	0.573007
IGX= 0.67; Suggesting a 33% attenuation of the MR Egger causal effect estimate towards zero.						
MR Egger Simex	318	0.237563	3.36E-01	2.46E-05	0.123042	0.458674
Weighted median	318	0.465216	0.098438	7.60E-15	0.383587	0.564218
Weighted mode	318	0.484627	0.409337	7.77E-02	0.217257	1.08104

\*EAF was not provided for the ADHD SNPs and therefore was approximated using phase3 european ancestry 1000Genomes reference panel. One SNP was not identified in the panel and therefore removed from the analysis.

**Table S8.** Direct causal effect estimates of genetic liability to higher EA and cognitive ability on risk of ADHD, as estimated by MVMR analysis.

	OR	95% CI		Conditional F-statistic	SE	P
Direct effect: EA	0.333641	0.260406	0.427472	7	0.12644	6.13E-17
Direct effect: EA- SNPs from Steiger excluded	0.474302	0.355872	0.632142	2	0.146567	6.45E-07
Direct effect: CA	0.832399	0.670293	1.033708	6	0.110508	0.097568
Robust to weak instruments direct effect: EA	0.3834937	0.299692	0.5005739			

**Table S9a.** Causal effect estimates of genetic liability to higher educational attainment on risk of ASD derived from two-sample MR analyses.

Method	N.SNP	OR	SE	P	95% CI	
Inverse variance weighted	410	1.510136	0.081609	4.40E-07	1.286914	1.772077
MR Egger	410	2.519884	0.33014	0.005362	1.319349	4.81284
IGX= 0.64; Suggesting a 36% attenuation of the MR Egger causal effect estimate towards zero.						
MR Egger Simex	410	3.564544	0.429477	0.00326	1.536122	8.271459
Weighted median	410	1.432918	0.097467	0.000224	1.18374	1.734549
Weighted mode	410	1.335246	0.297617	0.331907	0.745116	2.392755

**Table S9b.** Causal effect estimates of genetic liability to higher educational attainment on risk of ASD after removing instruments identified to explain more variation in the outcome through Steiger filtering.

Method	N.SNP	OR	SE	P	95% CI	
Inverse variance weighted	347*	1.306284	0.06507	4.02E-05	1.14987	1.483974
MR Egger	347	2.741672	0.265259	1.70E-04	1.63013	4.611144
IGX= 0.64; Suggesting a 33% attenuation of the MR Egger causal effect estimate towards zero.						
MR Egger Simex	347	4.015063	3.37E-01	4.67E-05	2.073811	7.773481
Weighted median	347	1.361438	0.098718	1.78E-03	1.121935	1.652068
Weighted mode	347	1.304833	0.372311	4.75E-01	0.628981	2.706901

\*EAF was not provided for the ASD SNPs and therefore was approximated using phase3 european ancestry 1000Genomes reference panel. One SNP was not identified in the panel and therefore removed from the analysis.

**Table S10.** Direct causal effect estimates of genetic liability to higher EA and cognitive ability on risk of ASD, as estimated by MVMMR analysis.

	OR	95% CI		Conditional F-statistic	SE	P
Direct effect: EA	1.243268	0.963451	1.604354	7	0.130091	0.094807
Direct effect: EA- SNPs from Steiger excluded	1.172924	0.883974	1.556326	3	0.1443	0.27
Direct effect: CA	1.256709	1.006175	1.569625	6	0.113439	0.044524
Robust to weak instruments direct effect: EA	1.378239	0.8904752	1.847808			

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