

Table S1. Minor allele frequencies across samples of the SNPs included in the replication analysis.

GENE	Genomic area	SNP	MAJOR/MINOR	MAF_IMAGE	MAF_DUKE	MAF_ALSPAC	MAF_QIMR	MAF_LBC1936
Intergenic	2q24.1-31.1	rs10172929	T/G	0.1399		0.1354	0.1183	0.1245
Intergenic	2q24.1-31.1	rs10201330	C/T	0.09		0.0974	0.07907	0.07326
<i>CHRM2</i>	7q33	rs10271552	T/C	0.091		0.1062	0.1044	0.09785
Intergenic	2q24.1-31.1	rs11896469	T/C	0.4472		0.44	0.4266	0.4175
<i>ATXN1</i>	6p25-21.2	rs12204969	T/C	0.1217		0.1358	0.1303	0.1383
<i>BDNF</i>	11p14	rs12273363	T/C	0.192	0.2201	0.2185	0.2026	0.1967
<i>BDNF</i>	11p14	rs12288512	G/A	0.1962	0.2199	0.2184	0.2025	0.1967
<i>LY75</i>	2q24.1-31.1	rs16844374	T/C	0.15				
<i>ATXN1</i>	6p25-21.2	rs17606174	C/T	0.1346	0.1113	0.15	0.1458	0.1568
<i>ATXN1</i>	6p25-21.2	rs17606216	T/C	0.1229		0.1365	0.1297	0.1368
<i>IGF2R</i>	6q26	rs1805075	A/G	0.0594		0.0515	0.04628	0.04508
Intergenic	14q11.2-12	rs1872159	C/T	0.098	0.1258	0.1075	0.1135	0.1265
Intergenic	6p25-21.2	rs195371	A/G	0.2341		0.22	0.2167	0.208
<i>TRIM31</i>	6p25-21.2	rs2023472	G/A	0.4212	0.3889	0.395	0.4089	0.3934
<i>DTNBP1</i>	6p23	rs2619545	T/C	0.2058	0.1871	0.2085	0.2017	0.208
<i>ALDH5A1</i>	6p23	rs2760138	A/G	0.1016				
Intergenic	14q11.2-12	rs2807822	C/T	0.4753	0.4449	0.4701	0.4901	0.4672
Intergenic	14q11.2-12	rs3811222	G/A	0.1045	0.1252	0.1071	0.1139	0.1358
Intergenic	2q24.1-31.1	rs4289149	G/A	0.18	0.1775	0.19	0.1886	0.1814
<i>DRD2</i>	11q23	rs4630328	G/A	0.3698		0.3538	0.3517	0.3294
Intergenic	2q24.1-31.1	rs4972741	A/G	0.1216		0.0958	0.09398	0.0835
<i>CHRM2</i>	7q33	rs6467694	T/C	0.0939	0.1202	0.1027	0.1046	0.0958
<i>DRD2</i>	11q23	rs6589377	A/G	0.386	0.3643	0.3826	0.3705	0.3463
Intergenic	2q24.1-31.1	rs6721348	A/G	0.1216		0.0971	0.09448	0.0835
Intergenic	6p25-21.2	rs6929774	C/T	0.4274	0.4575	0.45	0.4652	0.4657
<i>C6orf227</i>	6p25-21.2	rs6929819	A/G	0.435	0.4653	0.4673	0.4675	0.4667
Intergenic	14q11.2-12	rs7149201	T/C	0.1935	0.1968	0.2229	0.2287	0.2269
<i>DTNBP1</i>	6p23	rs760666	G/A	0.2471	0.2254	0.2168	0.2355	0.2136
Intergenic	14q11.2-12	rs762578	G/T	0.1141	0.1353	0.1231	0.1289	0.1424
<i>DTNBP1</i>	6p23	rs7758659	C/T	0.2478	0.2254	0.2169	0.2355	0.2136
<i>IGF2R</i>	6q26	rs8191818	T/G	0.0537	0.0859	0.0504	0.04623	0.04508
<i>IGF2R</i>	6q26	rs8191821	C/T	0.0542	0.086	0.0505	0.04623	0.04508
<i>IGF2R</i>	6q26	rs8191898	C/T	0.0596	0.087	0.0514	0.04628	0.04508
<i>DTNBP1</i>	6p23	rs875462	T/C	0.2518	0.24	0.2321	0.2353	0.2223
Intergenic	14q11.2-12	rs877726	A/T	0.2351	0.263	0.27	0.257	0.2649
<i>DTNBP1</i>	6p23	rs9296983	G/A	0.2471	0.2253	0.2168	0.2351	0.2136
<i>IGF2R</i>	6q26	rs9457827	C/T	0.0595	0.0872	0.0515	0.04628	0.04508
Noncoding gene	6p25-21.2	rs993600	A/G	0.1689	0.2204	0.1702	0.1969	0.1926
Intergenic	2q24.1-31.1	rs995711	T/G	0.1253	0.1315	0.1174	0.09851	0.09324

Table S2. Heterogeneity tests in the meta-analysis.

GENE	Genomic area	SNP	IMAGE & DUKE			ALL		
			N=822			N=4963		
			HetChiSq	HetDf	HetPVal	HetChiSq	HetDf	HetPVal
Intergenic	2q24.1-31.1	rs10172929				13.034	3	0.004563
Intergenic	2q24.1-31.1	rs10201330				10.61	3	0.01403
<i>CHRM2</i>	7q33	rs10271552				3.034	3	0.3864
Intergenic	2q24.1-31.1	rs11896469				9.254	3	0.0261
<i>ATXN1</i>	6p25-21.2	rs12204969				22.261	3	5.76E-05
<i>BDNF</i>	11p14	rs12273363	2.328	1	0.127	6.973	4	0.1373
<i>BDNF</i>	11p14	rs12288512	2.399	1	0.1214	7.192	4	0.1261
<i>LY75</i>	2q24.1-31.1	rs16844374						
<i>ATXN1</i>	6p25-21.2	rs17606174	0.136	1	0.7123	20.672	4	0.000368
<i>ATXN1</i>	6p25-21.2	rs17606216				21.996	3	6.54E-05
<i>IGF2R</i>	6q26	rs1805075				5.637	3	0.1307
Intergenic	14q11.2-12	rs1872159	0.669	1	0.4132	9.255	4	0.05504
Intergenic	6p25-21.2	rs195371				16.831	3	0.000766
<i>TRIM31</i>	6p25-21.2	rs2023472	0.742	1	0.3889	18.243	4	0.001106
<i>DTNBP1</i>	6p23	rs2619545	3.324	1	0.06826	6.794	4	0.1472
<i>ALDH5A1</i>	6p23	rs2760138						
Intergenic	14q11.2-12	rs2807822	4.077	1	0.04348	17.763	4	0.001373
Intergenic	14q11.2-12	rs3811222	1.655	1	0.1982	9.737	4	0.0451
Intergenic	2q24.1-31.1	rs4289149	7.551	1	0.005998	13.734	4	0.008196
<i>DRD2</i>	11q23	rs4630328				6.126	3	0.1056
Intergenic	2q24.1-31.1	rs4972741				12.511	3	0.005822
<i>CHRM2</i>	7q33	rs6467694	0.543	1	0.4611	10.805	4	0.02884
<i>DRD2</i>	11q23	rs6589377	1.127	1	0.2885	6.344	4	0.1749
Intergenic	2q24.1-31.1	rs6721348				12.302	3	0.006418
Intergenic	6p25-21.2	rs6929774	7.189	1	0.007335	17.342	4	0.001659
<i>C6orf227</i>	6p25-21.2	rs6929819	7.124	1	0.007606	17.253	4	0.001726
Intergenic	14q11.2-12	rs7149201	4.41	1	0.03573	10.292	4	0.03578
<i>DTNBP1</i>	6p23	rs760666	1.958	1	0.1617	4.851	4	0.303
Intergenic	14q11.2-12	rs762578	0.645	1	0.4219	9.944	4	0.04139
<i>DTNBP1</i>	6p23	rs7758659	1.954	1	0.1622	4.834	4	0.3047
<i>IGF2R</i>	6q26	rs8191818	0.071	1	0.7902	5.932	4	0.2043
<i>IGF2R</i>	6q26	rs8191821	0.073	1	0.7869	5.963	4	0.2019
<i>IGF2R</i>	6q26	rs8191898	0.079	1	0.7786	6.294	4	0.1783
<i>DTNBP1</i>	6p23	rs875462	2.246	1	0.134	4.642	4	0.326
Intergenic	14q11.2-12	rs877726	1.309	1	0.2526	10.634	4	0.031
<i>DTNBP1</i>	6p23	rs9296983	1.945	1	0.1631	4.888	4	0.299
<i>IGF2R</i>	6q26	rs9457827	0.078	1	0.7799	6.262	4	0.1804
Noncoding gene	6p25-21.2	rs993600	1.182	1	0.277	11.019	4	0.02635
Intergenic	2q24.1-31.1	rs995711	0.495	1	0.4817	10.277	4	0.036