

**Supplemental Table 1.** Description of SNPs comprising the obesity genetic risk score (GRS)

SNP	Nearest Gene	Risk allele	Risk allele frequency	R <sup>2</sup>
rs10150332	<i>NRXN3</i>	C	0.22	0.9992
rs10767664	<i>BDNF</i>	A	0.81	0.9990
rs10938397	<i>GNPDA2</i>	G	0.41	0.9989
rs10968576	<i>LRRN6C</i>	G	0.31	0.9983
rs11847697	<i>PRKD1</i>	T	0.03	0.9909
rs12444979	<i>GPRC5B</i>	C	0.85	0.9956
rs13078807	<i>CADM2</i>	G	0.19	1.0000
rs13107325	<i>SLC39A8</i>	T	0.05	0.9997
rs1514175	<i>TNNI3K</i>	A	0.43	0.9998
rs1555543	<i>PTBP2</i>	C	0.61	0.9993
rs1558902	<i>FTO</i>	A	0.39	0.9986
rs206936	<i>NUDT3</i>	G	0.22	0.9993
rs2112347	<i>FLJ35779</i>	T	0.64	0.9971
rs2241423	<i>MAP2K5</i>	G	0.77	1.0000
rs2287019	<i>QPCTL</i>	C	0.80	0.9983
rs2815752	<i>NEGR1</i>	A	0.63	1.0000
rs2867125	<i>TMEM18</i>	C	0.84	1.0000
rs2890652	<i>LRP1B</i>	C	0.14	0.9936
rs29941	<i>KCTD15</i>	G	0.68	1.0000
rs3810291	<i>TMEM160</i>	A	0.68	0.9565
rs3817334	<i>MTCH2</i>	T	0.38	0.9983
rs4771122	<i>MTIF3</i>	G	0.25	0.9670
rs4836133	<i>ZNF608</i>	A	0.45	0.9516
rs4929949	<i>RPL27A</i>	C	0.51	0.9706
rs543874	<i>SEC16B</i>	G	0.18	0.9958
rs571312	<i>MC4R</i>	A	0.25	0.9998
rs713586	<i>RBJ</i>	C	0.48	0.9991
rs7138803	<i>FAIM2</i>	A	0.35	0.9994
rs7359397	<i>SH2B1</i>	T	0.40	0.9996
rs887912	<i>FANCL</i>	T	0.29	0.9964
rs9816226	<i>ETV5</i>	T	0.79	0.9958
rs987237	<i>TFAP2B</i>	G	0.18	0.9998

R<sup>2</sup> : Squared correlation between imputed and directly measured genotypes.