Supplementary Table S2 Allele Frequencies and Hardy-Weinberg Equilibrium *P*-values (*n*=468)

Gene & SNP	**Genotype Count**	**Allele Frequency in this study (%)**	**Hardy-Weinberg Equilibrium *P*-value**
FTO rs1558902	TT = 402 TA = 63 AA = 3	T = 93 A = 7	0.76
TMEM18 rs13021737	GG = 384 GA = 79 AA = 5	G = 90 A = 10	0.68
MC4R rs6567160	TT = 417 TC = 49 CC = 2	T = 94 C = 6	0.66
GNPDA2 rs10938397	AA = 193 GA = 201 GG = 74	A = 63 G = 37	0.08
SEC16B rs543874	AA = 292 GA = 148	A = 78 G = 22	0.12

	GG = 28		
BCDIN3D rs7138803	GG = 348	G = 87	0.09
	GA = 116	A = 13	
	AA = 4		
TFAP2B rs2207139	AA = 134	A = 52	0.29
	GA = 222	G = 48	
	GG = 112		
NEGR1 rs3101336	CC = 230	C = 69	0.28
	CT = 189	T = 31	
	TT = 49		
ADCY3 rs10182181	AA = 321	A = 82	0.40
	GA = 130	G = 18	
	GG = 17		
QPCTL rs2287019	CC = 422	C = 95	0.26
	TC = 46	T = 5	
	TT = 0		
GPRC5B rs12446632	GG = 453	G = 98	0.72

	AG = 15	A = 2	
	AA = 0		
MTCH2 rs3817334	TT = 166	T = 58	0.24
	CT = 215	C = 42	
	CC = 87		
POC5 rs2112347	TT = 142	G = 55	0.79
	TG = 229	T = 45	
	GG = 97		
MAP2K5 rs16951275	CC = 261	C = 74	0.34
	CT = 171	T = 26	
	TT = 35		
ZC3H4 rs3810291	GG = 170	G = 61	0.74
	GA = 227	A = 39	
	AA = 71		
FPGT-TNNI3K	GG = 243	G = 71	0.07
rs12566985	AG = 177	A = 29	
	AA = 48		

LINGO2 rs10968576	AA = 285	A = 78	0.93
	GA = 160	G = 22	
	GG = 23		
CADM1 rs12286929	GG = 137	A = 54	0.66
	GA = 228	G = 46	
	AA = 103		
PRKD1 rs12885454	CC = 316	C = 82	0.77
	CA = 136	A = 18	
	AA = 16		
AGBL4 rs657452	GG = 149	G = 55	0.17
	GA = 217	A = 45	
	AA = 102		
PTBP2 rs11165643	TT = 272	T = 75	0.11
	TC = 161	C = 25	
	CC = 35		
NLRC3 rs758747	CC = 351	C = 86	0.23
	TC = 105	T = 14	
	TT = 12		

STXBP6 rs10132280	CC = 280	A = 77	0.32
	AC = 159	C = 23	
	AA = 29		
HIP1 rs1167827	AA = 318	A = 82	0.16
	AG = 130	G = 18	
	GG = 20		
FUBP1 rs12401738	GG = 195	G = 64	0.68
	AG = 211	A = 36	
	AA = 62		
OLFM4 rs12429545	GG = 147	A = 56	0.63
	AG = 226	G = 44	
	AA = 95		
RASA2 rs16851483	GG = 141	G = 55	0.78
	TG = 229	T = 45	
	TT = 98		
CADM2 rs13078960	TT = 432	T = 96	0.74
	GT = 35	G = 4	
	GG = 1		

HIF1AN rs17094222	TT = 242	C = 72	0.86
	CT = 188	T = 28	
	CC = 38		
HNF4G rs17405819	TT = 207	T = 67	0.44
	CT = 214	C = 33	
	CC = 47		
TLR4 rs1928295	TT = 245	T = 72	0.39
	CT = 183	C = 28	
	CC = 40		
NRXN3 rs7141420	TT = 284	T = 78	0.84
	TC = 162	C = 22	
	CC = 22		
C6orf106 rs205262	AA = 381	A = 90	0.48
	GA = 81	G = 10	
	GG = 6		
FHIT rs2365389	TT = 366	T = 88	0.28
	TC = 93	C = 12	
	CC = 9		

NAV1 rs2820292	AA = 251 CA = 176 CC = 41	A = 72 T = 28	0.21
TRIM66 rs4256980	GG = 190 GC = 223 CC = 55	G = 64 C = 36	0.39
ERBB4 rs7599312	GG = 378 AG = 87 AA = 3	G = 90 A = 10	0.40
KAT8 rs9925964	AA = 133 GA = 232 GG = 103	A = 53 G = 47	0.92
ETV rs1516725	CC = 423 CT = 45	C = 95 T = 5	0.27

SNP, single nucleotide polymorphis; *FTO*, alpha-ketoglutarate-dependent dioxygenase; *TMEM18*, transmembrane protein 18; *MC4R*, melanocortin 4 receptor; *GNPDA2*, glucosamine-6-phosphate deaminase 2; *SEC16B*, SEC16 homolog B, endoplasmic reticulum export factor; *BCDIN3D*, BCDIN3 domain containing RNA methyltransferase; *TFAP2B*, transcription factor AP-2 beta; *NEGR1*, neuronal

growth regulator 1; *ADCY3*, adenylate cyclase 3; *QPCTL*, glutaminyl-peptide cyclotransferase like; *GPRC5B*, G protein-coupled receptor class C group 5 member B; *MTCH2*, mitochondrial carrier 2; *POC5*, centriolar protein; *MAP2K*, mitogen-activated protein kinase 5,; *ZC3H4*, zinc finger CCCH-type containing 4; *FPGT-TNNI3K*, FPGT-TNNI3K readthrough; *LINGO2*, leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 2; *CADM1*, cell adhesion molecule 1; *PRKD1*, protein kinase D1; *AGBL4*, AGBL carboxypeptidase 4; *PTBP2*, polypyrimidine tract binding protein 2; *NLRC3*, NLR family CARD domain containing 3; *STXBP6*, syntaxin binding protein 6; *HIP1*, Huntingtin interacting protein 1; *FUBP1*, far upstream element binding protein 1; *OLFM4*, olfactomedin 4; *RASA2*, RAS p21 protein activator 2; *HIF1AN*, hypoxia inducible factor 1 subunit alpha inhibitor; *HNF4G*, hepatocyte nuclear factor 4 gamma; *TLR4*, toll like receptor 4; *NRXN3*, neurexin 3; *ILRUN* or *C6orf106*, inflammation and lipid regulator with UBA-like and NBR1-like domains; *FHIT*, fragile histidine triad diadenosine triphosphatase; *NAV1*, neuron navigator 1; *TRIM66*, tripartite motif containing 66; *ERBB4,* erb-b2 receptor tyrosine kinase 4; *KAT8*, lysine acetyltransferase 8; and *ETV5*, ETS variant transcription factor 5.