

## Data supplement

**Table DS1** Single nucleotide polymorphisms included in the genetic risk score.

Chromosome and nearest gene	rs number	Alleles	BMI-increasing allele	Frequency of BMI-increasing allele	GWAS effect-size for BMI	Call rate %	
1	NEGR1	rs2568958	A/G	A	0.625	0.13	99.95
	TNNI3K	rs1514175	A/G	A	0.423	0.07	99.86
	PTBP2	rs11165643	C/T	T	0.588	0.06	99.07
	SEC16B	rs10913469	C/T	C	0.192	0.22	100
2	TMEM18	rs2867125	C/T	C	0.829	0.31	99.98
	ADCY3,RBJ	rs10182181	A/G	G	0.469	0.14	99.40
	FANCL	rs759250	A/G	A	0.284	0.1	100
	LRP1B	rs6714473	C/T	T	0.097	0.09	99.85
3	CADM2	rs7640855	A/G	A	0.190	0.1	96.83
	ETV5	rs7647305	C/T	C	0.790	0.14	99.93
4	GNPDA2	rs12641981	C/T	T	0.441	0.18	100
	SLC39A8	rs13107325	C/T	T	0.075	0.19	99.91
5	FLJ35779	rs253414	C/T	T	0.664	0.1	99.93
	ZNF608	rs6864049	A/G	A	0.472	0.07	100
6	TFAP2B	rs987237	A/G	A	0.182	0.13	100
	NUDT3	rs206936	A/G	G	0.180	0.06	95.99
9	LRRN6C	rs2183825	C/T	C	0.329	0.11	99.98
11	STK33, RPL27A	rs10840065	A/G	A	0.516	0.06	100
	BDNF	rs6265	C/T	C	0.798	0.19	100
	MTCH2	rs10838738	A/G	G	0.345	0.06	100
12	BCDIN3, FAIM2	rs7138803	A/G	A	0.375	0.12	100
13	MTIF3	rs1475219	C/T	C	0.204	0.09	90.61
14	PRKD1	rs11847697	C/T	T	0.036	0.17	96.87
	NRXN3	rs10146997	A/G	G	0.219	0.13	100
15	MAP2K5	rs2241423	A/G	G	0.772	0.13	99.96
16	GPRC5B	rs12446632	A/G	G	0.861	0.17	99.93
	SH2B1	rs4788102	A/G	A	0.390	0.15	100
	FTO	rs3751812	G/T	T	0.410	0.39	100
18	MC4R	rs921971	C/T	C	0.266	0.23	99.98
19	KCTD15	rs29941	A/G	G	0.683	0.06	100
	ZC3H4, TMEM160	rs2303108	C/T	C	0.714	0.09	100
	QPCTL	rs11083779	C/T	T	0.958	0.15	98.28

BMI, body mass index; GWAS, genome-wide association studies.