

Supplementary Table 1. SNPs and weights used for the three different genetic risk models: GRS_10, GRS_26 and GRS_57.

Locus	Chr.	GRS_10			GRS_26			GRS_57		
		SNP	Risk allele	$\beta=\ln(\text{OR})$	SNP	Risk allele	$\beta=\ln(\text{OR})$	SNP	Risk allele	$\beta=\ln(\text{OR})$
<i>C1orf93, TNFRSF14, MMEL1</i>	1				rs3748816	A	0.06217	rs4445406	T	0.07356
<i>RUNX3</i>	1				rs10903122	G	0.08316	rs72657048	G	0.087
<i>FASLG</i>	1							rs12068671	T	0.1605
								rs859637	T	0.1825
<i>RGS1</i>	1	rs2816316	A	0.2142	rs2816316	A	0.2142	rs72734930^{##}	A	0.3622
								rs1359062	G	0.206
<i>KIF21B, C1orf106</i>	1				rs296547	C	0.1103	rs10800746	C	0.1155
<i>PUS10</i>	2				rs13003464	G	0.09383	rs13003464	G	0.09383
<i>PLEK, FBX048</i>	2				rs17035378	T	0.09479	rs10167650	T	0.1098
<i>IL18RAP, IL18R1</i>	2	rs917997	G	0.2253	rs917997	G	0.2253	rs990171	A	0.2231
<i>ITGA4, UBE2E3</i>	2				rs4667121	C	0.05532	rs1018326	C	0.09917
<i>STAT4</i>	2							rs6715106[#]	A	0.3624
								rs12998748	G	0.1372
								rs6752770	G	0.06202
<i>CTLA4, ICOS, CD28</i>	2				rs4675374	T	0.1544	rs10207814^{##}	T	0.1509
								rs1980422	C	0.1568
								rs34037980	A	0.05851
<i>CCR4, GLB1</i>	3				rs13314993	G	0.1289	rs4678523	C	0.1435
<i>CCR1-3, LTF</i>	3	rs6441961	T	0.1255	rs13098911	T	0.1845	rs7616215	C	0.1031
								rs2097282	C	0.1299
								rs60215663[#]	A	0.2788
<i>ARHGAP1</i>	3				rs11712165	G	0.03233	rs61579022	A	0.03245
<i>SCHIP1, IL12A</i>	3	rs9811792	C	0.1556				rs1353248	C	0.1579
		rs17810546	G	0.2642	rs17810546	G	0.2642	imm_3_161120372	A	0.2937
								rs2561288	T	0.1773
<i>LPP</i>	3	rs1464510	A	0.1794	rs1464510	A	0.1794	rs2030519	A	0.2107
<i>KIAA1109, ADAD1, IL2, IL21</i>	4							rs62323881[#]	A	0.2048
		rs6822844	G	0.3911	rs13151961	A	0.3658	rs13132308	A	0.3895

Supplementary Table 1 (continued): SNPs and weights used for the three different genetic risk models: GRS_10, GRS_26 and GRS_57

Locus	Chr.	GRS_10			GRS_26			GRS_57		
		SNP	Risk allele	$\beta=\ln(\text{OR})$	SNP	Risk allele	$\beta=\ln(\text{OR})$	SNP	Risk allele	$\beta=\ln(\text{OR})$
<i>IRF4</i>	6							rs12203592	C	0.1242
								rs1050976	C	0.09018
<i>BACH2</i>	6				rs10806425	A	0.1215	rs7753008	C	0.1386
<i>PTPRK</i>	6				rs802734	G	0.1338	rs55743914	T	0.1858
								rs72975916	C	0.2027
<i>TNFAIP3, OLIG3</i>	6	rs2327832	G	0.2037	rs2327832	G	0.2037	imm_6_138043754	G	0.1317
								rs17264332	G	0.2298
<i>TAGAP</i>	6	rs1738074	T	0.1545	rs1738074	T	0.1545	rs182429	A	0.1566
								rs1107943[#]	C	0.1342
<i>ELMO1</i>	7							1kg_7_37384979	G	0.1715
<i>PVT1</i>	8				rs9792269	A	0.08532	rs10808568	A	0.08465
<i>PFKFB3, PRKCQ</i>	10							rs2387397	C	0.08623
<i>ZMIZ1</i>	10				rs1250552	A	0.1472	rs1250552	A	0.1472
<i>POU2AF1, C11orf93</i>	11							rs7104791	T	0.1471
<i>TREH, DDX6</i>	11							rs10892258	G	0.1234
<i>ETS1</i>	11				rs11221332	T	0.1378	rs61907765	T	0.1415
<i>SH2B3, ATXN2</i>	12	rs3184504	T	0.1516	rs3184504	T	0.1516	rs3184504	T	0.1516
<i>ZFP36L1, C14orf181</i>	14							rs11851414	C	0.1599
<i>CLK3, CSK</i>	15							rs1378938	A	0.1226
<i>CIITA</i>	16							rs6498114	G	0.1431
<i>SOCS1, PRM1, PRM2</i>	16				rs12928822	C	0.1128	rs243323	A	0.1001
								imm_16_11281298^{##}	G	0.002075
								rs9673543	G	0.003185
<i>PTPN2</i>	18				rs1893217	G	0.2063	rs11875687	C	0.1934
								rs62097857^{##}	A	0.1095
<i>UBASH3A</i>	21							rs1893592	A	0.07879
<i>ICOSLG</i>	21				rs4819388	C	0.1541	rs58911644	A	0.118
<i>UBE2L3, YDJC</i>	22							rs4821124	C	0.1328
<i>HCFC1, TMEM187, IRAK1</i>	X							rs13397	A	0.08922

Chr. chromosome; SNP single nucleotide polymorphism; OR odds ratio. The genes mentioned are the most plausible genes reported. [#] SNPs with MAF = 5-10%,
^{##} SNPs with MAF <5%.