

Electronic supplementary material

ESM Table 1 Overview of tagging SNPs, including results from the NL1 study

rs number	Position	Allele 1	Allele 2	MAF controls	MAF cases	OR (95% CI)	<i>p</i> value
rs854191	45409713	T	C	0.19	0.16	0.86 (0.68–1.08)	0.22
rs17637580	45411477	G	A	0.33	0.35	1.08 (0.89–1.30)	0.45
rs17077759	45411945	A	C	0.23	0.20	0.86 (0.69–1.07)	0.17
rs17637703	45415725	A	G	0.22	0.25	1.22 (0.99–1.50)	0.07
rs864391	45422021	G	A	0.23	0.20	0.88 (0.71–1.09)	0.23
rs6802884	45423962	T	C	0.19	0.17	0.91 (0.72–1.14)	0.42
rs17576051	45424984	A	G	0.11	0.10	0.94 (0.71–1.25)	0.72
rs3774696	45425473	A	C	0.24	0.27	1.16 (0.95–1.42)	0.17
rs9878643	45426336	G	A	NA	NA	NA	NA
rs6764923	45429693	A	G	0.40	0.37	0.88 (0.69–1.13)	0.32
rs17576289	45433737	A	G	0.14	0.12	0.87 (0.67–1.12)	0.29
rs4682783	45445335	A	G	NA	NA	NA	NA
rs4683113	45450337	A	G	0.42	0.42	1.00 (0.80–1.25)	1.00
rs9825692	45451366	G	A	0.28	0.31	1.17 (0.97–1.42)	0.12
rs952621	45451698	C	T	0.18	0.20	1.13 (0.89–1.43)	0.33

rs number	Position	Allele 1	Allele 2	MAF controls	MAF cases	OR (95% CI)	p value
rs11926964	45464453	A	T	0.18	0.16	0.89 (0.70–1.13)	0.34
rs1877960	45471148	T	C	0.29	0.28	0.95 (0.73–1.24)	0.74
rs1949304	45475954	T	C	0.28	0.28	0.97 (0.74–1.26)	0.84
rs3774694	45481450	C	T	0.31	0.32	1.02 (0.84–1.23)	0.89
rs12487705	45492763	A	G	0.36	0.38	1.12 (0.93–1.34)	0.26
rs2128358	45524032	A	G	0.13	0.13	1.04 (0.80–1.34)	0.79
rs11706785	45546084	A	G	0.43	0.42	0.95 (0.75–1.19)	0.64
rs2118749	45547261	C	T	0.28	0.30	1.09 (0.84–1.42)	0.54
rs9825041	45502488	G	A	0.06	0.07	1.35 (0.92–1.98)	0.15

The *LARS2* locus was also investigated using a tagging SNP approach in the NL1 sample

Common SNPs (MAF >0.05) in *LARS2* were identified using HAPMAP (gene boundaries set at 45,405,079–45,565,332) [19]

Tagging SNPs were selected using the Tagger option in Haploview (NCBI build 36, phase II, April 2007,

Centre d'Etude du Polymorphisme [Utah residents with northern and western European ancestry] population [CEU])

LOD (logarithm of odds) threshold 3.0 and $r^2 > 0.8$) [20]

Allele 1 is the major and allele 2 is the minor allele

NA, not available