

SUPPLEMENTARY INFORMATION

Genome-Wide Association Study of Metabolic Syndrome in Koreans

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Supplementary Table 1. *In silico* annotation of the associated SNPs with METS

Study SNP	LD SNPs	Nearest gene	Gene description	Coding variants	eQTL		
					Gene symbol	Cell type	Reference
Genome-wide significant levels ($p < 5 \times 10^{-8}$)							
rs11216126	-	<i>BUD13</i> 3' downstream	BUD13 homolog (<i>Saccharomyces cerevisiae</i>)	-	-	-	-
rs180349	-	<i>BUD13</i> 3' downstream	-	-	-	-	-
-	rs10790162	<i>BUD13</i> intron	-	-	-	-	-
-	rs1558861	<i>BUD13</i> 3' downstream	-	-	-	-	-
Genome-wide suggestive levels ($5 \times 10^{-8} \leq p < 1 \times 10^{-5}$)							
rs6589566	-	<i>ZNF259</i> intron	Zinc finger protein 259	-	-	-	-
-	rs10790162	<i>BUD13</i> intron	-	-	-	-	-
-	rs2075290	<i>ZNF259</i> intron	-	-	-	-	-
-	rs2160669	<i>ZNF259</i> 3' downstream	-	-	-	-	-
-	rs2266788	<i>APOA5</i> 3' untranslated region	Apolipoprotein A- V	-	-	-	-
-	rs651821	<i>APOA5</i> 5' untranslated region	-	-	<i>TALGN</i>	Monocytes	[31]
-	rs964184	<i>ZNF259</i> 3' downstream	-	-	<i>TALGN</i>	Monocytes	[31]
rs17410962	-	<i>LPL</i> 3' downstream	Lipoprotein lipase	-	<i>LPL</i>	Monocytes	[31]
rs17482753	-	<i>LPL</i> 3' downstream	-	-	<i>LPL</i>	Monocytes	[31]
rs10503669	-	<i>LPL</i> 3' downstream	-	-	<i>LPL</i>	Monocytes	[31]
-	rs10096633	<i>LPL</i> 3' downstream	-	-	-	-	-
-	rs1059611	<i>LPL</i> 3' untranslated region	-	-	-	-	-
-	rs12678919	<i>LPL</i> 3' downstream	-	-	-	-	-
-	rs17091905	<i>LPL</i> 3' downstream	-	-	-	-	-
-	rs328	<i>LPL</i> exon	-	Stop gained mutation (Ser 447 Ter)	-	-	-
-	rs7016880	<i>LPL</i> 3' downstream	-	-	<i>LPL</i>	Monocytes	[31]

-	rs7841189	<i>LPL</i> 3' downstream	-	-	-	-	-
rs2350786	-	<i>CHRM2</i> intron	Cholinergic receptor, muscarinic 2	-	-	-	-
rs486394	-	<i>BUD13</i> 3' downstream	-	-	-	-	-
rs1668775	-	Intergenic	-	-	-	-	-
rs605257	-	<i>PTPRD</i> intron	Protein tyrosine phosphatase, receptor type, D	-	-	-	-
Expression quantitative trait loci ($5 \times 10^{-5} \leq p < 1 \times 10^{-4}$)							
rs1996794	-	<i>SBF2</i> intron	SET binding factor 2	-	<i>SWAP70</i>	Monocytes	[31]
rs1032550	-	<i>SBF2</i> intron	-	-	<i>SWAP70</i>	Monocytes	[31]

SNP, single nucleotide polymorphism; METS, metabolic syndrome; LD, linkage disequilibrium; eQTL, expression quantitative trait loci.