

S1 Table: CpG sites in the *LPA* gene locus assayed by the Illumina Infinium HumanMethylation450 BeadChip Array with position, location and the p-value of the first stage epigenome-wide analysis on $\log(Lp(a))$. The location is given relative to the UCSC Genome browser hg38 annotation with a leading non-coding exon 1. See the introduction section of the main manuscript for an explanation of the issues with the *LPA* reference transcript annotation.

cg-ID	Chr	Position	location	p-value
cg10234069	6	160952713	Exon 40	0.1193
cg14663533	6	160955178	Intron 38-39	0.9046
cg17028067	6	161086715	Intron 1-2	6.04e-11
cg10836120	6	161087339	Exon 1	0.1954
cg11975608	6	161087439	5'upstream	0.8437
cg17189167	6	161087506	5'upstream	0.4256
cg16960593	6	161087573	5'upstream	0.4193
cg27656787	6	161088246	5'upstream	0.3816
cg07177174	6	161088755	5'upstream	0.0104