

Supplementary material:

Table 1: Description of the genotyped SNPs in *LEP* gene

No.	SNP name	Position	Alleles	Expected MAF*	Location	Observed MAF	p-value for HWE
1	rs4731426	127476021	C/G	0.392	Intron 1	0.339	0.1451
2	rs117635178	127484013	T/C	0.425	Intron 1	0.441	1
3	rs11760956	127485038	G/A	0.283	Intron 1	0.253	0.2595
4	rs2071045	127486931	T/C	0.237	Intron 2	0.248	0.9019
5	rs3828942	127488256	A/G	0.492	Intron 2	0.403	0.7036

Abbreviations: SNP - single nucleotide polymorphism, MAF – minor allele frequency, HWE – Hardy-Weinberg Equilibrium

*The expected MAF is based on data from the International HapMap Project for population of European ancestry.

Table 2: Association between *LEP* genotype and plasma leptin change (Δ leptin) in months 0-6*

SNP	Genotype	N	Δ leptin 0-6mo	β^1	p-value ¹	FDR
rs4731426	CC	87	-2.45	-0.84	0.0766	0.1174
	CG	116	-3.51			
	GG	59	-4.17			
rs117635178	TT	78	-1.99	-0.78	0.1373	0.1373
	CT	131	-3.43			
	CC	53	-4.81			
rs11760956	GG	139	-2.60	-1.04	0.0437	0.1174
	AG	99	-3.95			
	AA	24	-4.95			

rs2071045	TT	144	-3.19	0.16	0.0939	0.1174
	TC	100	-3.58			
	CC	18	-2.51			
rs3828942	GG	79	-4.62	0.86	0.0784	0.1174
	AG	127	-3.12			
	AA	56	-1.76			

* adjusted for age, sex, diet group and changes in weight, leptin, adiponectin and HDL-c concentrations between 0-6 months

¹ β values are of the additive model, p-values of ANCOVA