



Supplementary Table S1. Differences in Δ values for the biochemical parameters on the basis of the main genotypes in people with severe obesity.

Variables	WT n (%)	Hetero n (%)	Homo n (%)	<i>p</i> value
rs266729 c.-11377C>G	183 (68.3)	75 (38.0)	10 (3.7)	
Δ Weight	8.37 $\pm$ 3.54	7.63 $\pm$ 3.51	8.84 $\pm$ 3.909	.261
Δ Glucose	8.36 $\pm$ 13.24*	9.31 $\pm$ 11.94*	42.70 $\pm$ 23.65	<.000
Δ Triglycerides	14.63 $\pm$ 19.16	24.77 $\pm$ 19.80*	23.90 $\pm$ 7.98	<.000
Δ total cholesterol	19.39 $\pm$ 15.73	21.37 $\pm$ 16.80	28.90 $\pm$ 5.67	.143
Δ LDL-cholesterol	23.07 $\pm$ 13.74	26.51 $\pm$ 13.88	31.30 $\pm$ 7.86	.051
Δ Adiponectin	2.267 $\pm$.168	2.074 $\pm$.240	2.667 $\pm$.843	.281
rs16861194 c.-11426 A>G	240 (89.6)	18 (6.7)	10 (3.7)	
Δ Weight	7.95 $\pm$ 3.489	8.51 $\pm$ 2.402	9.08 $\pm$ 3.964	.496
Δ Glucose	9.14 $\pm$ 13.700	9.67 $\pm$ 9.84	14.90 $\pm$ 14.41	.417
Δ Triglycerides	17.71 $\pm$ 19.82	15.33 $\pm$ 16.44	24.80 $\pm$ 18.90	.458
Δ total cholesterol	20.41 $\pm$ 15.99	17.67 $\pm$ 15.21	22.30 $\pm$ 14.88	.718
Δ LDL-cholesterol	24.15 $\pm$ 14.01	23.56 $\pm$ 10.85	30.20 $\pm$ 10.68	.383
Δ Adiponectin	-1.12 $\pm$ 1.96	-1.96 $\pm$ 1.94	-1.18 $\pm$ 1.95	.203
rs17300539c.11391G>A	230 (86.0)	36 (13.4)	2 (0.6)	
Δ Weight	7.78 $\pm$ 3.49	9.16 $\pm$ 3.52*	12.9 $\pm$ 4.4	.005
Δ Glucose	8.79 $\pm$ 12.46	13.06 $\pm$ 19.13	17.50 $\pm$ 21.92	.152
Δ Triglycerides	17.10 $\pm$ 19.40	22.06 $\pm$ 20.84	24.00 $\pm$ 7.07	.335
Δ total cholesterol	20.36 $\pm$ 15.94	19.64 $\pm$ 15.97	25.50 $\pm$ 2.12	.870
Δ LDL-cholesterol	23.99 $\pm$ 13.55	26.28 $\pm$ 15.18	29.00 $\pm$ 2.83	.580
Δ Adiponectin	-1.16 $\pm$ 2.20	-1.40 $\pm$ 2.46	-1.30 $\pm$ 2.54	.835
rs60806105 c.-11156 insCA	241 (89.9)	27 (10.1)	0 (0.0)	
Δ Weight	8.04 $\pm$ 3.50	7.94 $\pm$ 2.97	---	.889
Δ Glucose	9.23 $\pm$ 12.88	10.22 $\pm$ 18.75	---	.719
Δ Triglycerides	17.80 $\pm$ 19.39	17.96 $\pm$ 21.53	---	.968
Δ total cholesterol	20.15 $\pm$ 15.97	21.63 $\pm$ 15.05	---	.646
Δ LDL-cholesterol	23.98 $\pm$ 13.67	27.52 $\pm$ 14.06	---	.204
Δ Adiponectin	-1.24 $\pm$ 2.22	-.70 $\pm$ 2.35	---	.227
rs2241766 c.45 T>G	178 (66.4)	81 (30.2)	9 (3.4)	
Δ Weight	7.81 $\pm$ 3.43	8.47 $\pm$ 3.50	8.55 $\pm$ 3.01	.325
Δ Glucose	8.00 $\pm$ 11.86	11.69 $\pm$ 16.15	14.22 $\pm$ 16.69	.069
Δ Triglycerides	17.38 $\pm$ 19.80	18.22 $\pm$ 19.57	22.89 $\pm$ 15.71	.696
Δ total cholesterol	20.45 $\pm$ 15.82	19.41 $\pm$ 16.21	25.33 $\pm$ 13.91	.556
Δ LDL-cholesterol	24.01 $\pm$ 13.98	24.46 $\pm$ 13.60	29.67 $\pm$ 9.11	.483
Δ Adiponectin	-1.18 $\pm$ 2.33	-1.16 $\pm$ 2.11	-1.57 $\pm$ 1.33	.870
rs1501299 c.214+62 G>T	138 (51.6)	107 (39.8)	23 (8.6)	
Δ Weight	7.68 $\pm$ 3.53	8.37 $\pm$ 3.30	8.63 $\pm$ 3.45	.209
Δ Glucose	7.55 $\pm$ 10.91	10.88 $\pm$ 16.00	12.92 $\pm$ 14.75	.066
Δ Triglycerides	17.23 $\pm$ 19.25	17.21 $\pm$ 19.28	23.88 $\pm$ 22.36	.284
Δ total cholesterol	19.28 $\pm$ 15.78	22.30 $\pm$ 15.98	17.42 $\pm$ 15.40	.219
Δ LDL-cholesterol	24.12 $\pm$ 12.91	26.88 $\pm$ 17.75	24.04 $\pm$ 13.83	.638
Δ Adiponectin	-1.26 $\pm$ 2.11	-.91 $\pm$ 2.37	-2.07 $\pm$ 2.03	.057
rs62625753 c.268G>A	264 (98.5)	4 (1.5)	0 (0)	
Δ Weight	8.04 $\pm$ 3.46	7.70 $\pm$ 2.49	---	.848
Δ Glucose	9.21 $\pm$ 13.53	17.25 $\pm$ 14.25	---	.239

Δ Triglycerides	17.88±19.63	13.75±16.66	---	.676
Δ total cholesterol	20.25±15.41	-3.0±1.73 [@]	---	0.010
Δ LDL-cholesterol	24.46±12.37	9.33±4.04 [!]	---	0.036
Δ Adiponectin	-1.06±2.06	-4.48±1.78 [^]	---	0.005
rs 17366743 c.331T>C	252 (94.0)	16 (6.0)	0 (0.0)	
Δ Weight	8.01±3.48	8.35±2.93	---	.701
Δ Glucose	9.12±13.43	12.69±15.28	---	.307
Δ Triglycerides	17.58±19.32	21.50±23.60	---	.439
Δ total cholesterol	20.32±15.78	20.00±17.67	---	.938
Δ LDL-cholesterol	24.11±13.66	27.88±14.70	---	.288
Δ Adiponectin	-1.16±2.24	-1.64±2.14	---	.410



Supplementary Figure S1. Genomic DNA of adiponectin.

Supplementary Table S2. Wild type alleles, Location and Hardy Weiber equilibrium p values of the considered polymorphisms.

Considered Polymorphism	Wild Type Allele	Location	HWE <i>p</i> Value
rs 266729 c.-11377 C>G	CC	Promoter	0.697
rs 16861194 c.-11426 A>G	AA	Promoter	0.071
rs 17300539 c.-11391 G>A	GG	Promoter	0.921
rs60806105 c.-11156 insCA	No CA insertion	Promoter	0.594
rs 2241766 c.45 T>G	TT	Exon 2	0.988
rs1501299 c.214+62 G>T	GG	Intron 2	0.815
rs62625753 c.268G>A	GG	Exon 3	0.940
rs 17366743 c.331T>C	TT	Exon 3	0.757

HWE, Hardy Weinberg Equilibrium estimated by using the calculator on <http://www.dr-petrek.eu/documents/HWE.xls>.