

DC04-1322 Online Appendix

Table A-1 PCR Primer sequences and PCR conditions

	Primer sequence	Denaturation	Annealing	Extension
SNP-11377		96°C	53°C	60°C
Sense Primer	5'-ACTTGCCCTGCCTCTGTCTG-3'			
Antisense Primer	5'-GCCTGGAGAACTGGAAGCTG-3'			
SNP45 and SNP276		96°C	53°C	60°C
Sense Primer	5'-AGAAAGCAGCTCCTAGAAGT-3'			
Antisense Primer	5'-GGCACCATCTACACTCATCC-3'			
PPRE:		94°C	57°C	72°C
Sense Primer	5'-ACCTGATTGCAGACCCCTCTGA-3'			
Antisense Primer	5'-AGCCTCAACAGCCTGGTACTCA-3'			

Table A-2 The allelic and genotypic distribution of SNP-11377

		Number	%
Allele			
SNP-11377	C	239	71.99
	G	93	28.01
Genotype			
SNP-11377	CC	86	51.8
	CG	67	40.4
	GG	13	7.8

Table A-3 Clinical and biochemical characteristics of the subjects according to the adiponectin genotypes at position -11377

	SNP -11377			
	CC	CG	GG	P
N (male/female)	86 (48/38)	67 (35/32)	13 (6/7)	0.775 [†]
Age (year)	56.1±9.3	57.0±10.4	55.9±9.9	0.807
Duration of diabetes (years)	6.8±4.9	6.3±6.4	5.5±4.5	0.775
Body mass index (kg/m ²)	26.4±2.7	25.4±2.4	24.7±2.1	0.051
FPG				
Before treatment (mmol/l)	9.62±2.50	9.37±2.60	8.28±1.82	0.192
(mg/dL)	173.4±45.0	168.8±46.8	149.1±32.8	
After treatment (mmol/l)	8.03±2.89	7.79±1.95	7.53±2.32	0.739
(mg/dL)	144.6±52.1	140.4±35.1	135.6±41.7	
Δ FPG (mmol/l)	1.60±2.72	1.47±2.31	0.75±0.18	0.530
(mg/dL)	28.8±49.0	26.4±41.6	13.5±42.0	
HbA1c (%)				
Before treatment	8.45±1.41	8.44±1.30	8.55±1.27	0.968
After treatment	7.85±1.38	7.64±1.23	7.42±1.39	0.428
Δ HbA1c (%)	0.58±1.02	0.78±1.21	1.12±1.52	0.233
Adiponectin (μg/mL)				
Before treatment	5.01±3.56	4.64±5.08	5.65±6.61	0.726
After treatment	8.95±6.55	9.66±7.42	10.19±7.05	0.737
Δ Adiponectin (μg/mL)	3.92±5.22	5.01±5.31	4.53±3.68	0.433
HOMA-IR	3.00±1.82	3.62±2.34	2.25±1.59	0.051

Data are means ± SD. P values reflect differences between the three groups & are assessed by ANOVA.

[†] P value assessed by chi-square test.

Table A-4 Results of Multivariate Regression

1) SNP45

Adiponectin level before treatment	B	Standard error	P-value
Sex	0.034	0.992	0.737
Age	-0.006	0.051	0.953
BMI	-0.131	0.183	0.189
Genotype	0.024	1.437	0.873

Adiponectin level after treatment	B	Standard error	P-value
Sex	0.018	1.406	0.859
Age	0.022	0.072	0.821
BMI	-0.106	0.259	0.280
Genotype	0.263	2.036	0.073

Change in Adiponectin level	B	Standard error	P-value
Sex	-0.008	1.012	0.737
Age	0.036	0.052	0.953
BMI	-0.021	0.186	0.189
Genotype	0.340	1.466	0.020

2) SNP276

Adiponectin level before treatment	B	Standard error	P-value
Sex	0.022	0.969	0.823
Age	-0.030	0.050	0.760
BMI	-0.053	0.178	0.182
Genotype	-0.169	1.845	0.593

Adiponectin level after treatment	B	Standard error	P-value
Sex	-0.096	1.408	0.924
Age	-0.064	0.073	0.949
BMI	-1.166	0.259	0.246
Genotype	0.287	2.682	0.775

Change in Adiponectin level	B	Standard error	P-value
Sex	-0.341	1.029	0.734
Age	0.200	0.054	0.841
BMI	-0.329	0.189	0.743
Genotype	0.897	1.961	0.372

3) Haplotype SNP45/276

Adiponectin level before treatment	B	Standard error	P-value
Sex	0.034	0.996	0.736
Age	-0.007	0.051	0.943
BMI	-0.133	0.182	0.183
Haplotype	0.015	1.442	0.876

Adiponectin level after treatment	B	Standard error	P-value
Sex	0.011	1.418	0.913
Age	0.018	0.073	0.850
BMI	-0.112	0.260	0.255
Haplotype	0.169	2.052	0.087

Change in Adiponectin level	B	Standard error	P-value
Sex	-0.018	1.018	0.859
Age	0.032	0.052	0.739
BMI	-0.028	0.186	0.778
Haplotype	0.219	1.474	0.027