SUPPLEMENTAL FILES

	Homozygote Reference		Heterozygote		Homozygote variant		p value	
	Observed	Expected	Observed	Expected	Observed Expected			
rs9138	1352	1348.6	1130	1136.8	243	239.6	0.753	
rs1126616	1312	1320.2	1168	1151.7	243	251.2	0.459	
rs11730582	223	236.3	535	508.3	260	273.3	0.094	
rs28357094	133	128.8	798	806.5	1267	1262.8	0.622	
rs1126772	908	915.9	570	554.3	76	83.9	0.263	

Model	Genotype	No CVE N = 1507	CVE N = 106	Odds ratio (95% CI)	p value	AIC
		n (%)	n (%)			
	AA	903 (59.9%)	49 (46.2%)	1.00		
Co-dominant	AG	529 (35.1%)	52 (49.1%)	1.81 (1.21-2.72)*	0.016	779.8
	GG	75 (5%)	5 (4.7%)	1.23 (0.48-3.18)		
Dominant	AA	903(59.9)	49(46.2)	1.00	0.006	778.5
	AG-GG	604(40.1)	57(53.8)	1.74 (1.17-2.58)*		
Recessive	AA-AG	1432(95)	101(95.3)	1.00	0.9	786
	GG	75(5)	5(4.7)	0.95 (0.37-2.39)		
Over dominant	AA-GG	978(64.9)	54(50.9)	1.00	0.004	778
	AG	529(35.1)	52(49.1)	1.78 (1.20-2.64)*		
Log-Additive				1.43 (1.05-1.96)*	0.027	781.1
HWE (p value)		0.88	0.098			

models; CVE, cardiovascular events; HWE, Hardy–Weinberg equilibrium.

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Model	Genotype	No CVE N = 2609 n (%)	CVE N = 206 n (%)	Odds ratio (95% CI)	<i>p</i> value	AIC
	CC	1276 (48.9%)	87 (42.2%)	1.00		
Co-dominant	СТ	1097 (42%)	104 (50.5%)	1.39 (1.03-1.87)*	0.062	1474.3
	TT	236 (9.1%)	15 (7.3%)	0.93 (0.53-1.64)		
Dominant	CC	1276 (48.9%)	87 (42.2%)	1.00	0.064	1474.4
	CT-TT	1333 (51.1%)	119 (57.8%)	1.31 (0.98–1.74)		
Recessive	CC-CT	2373 (91%)	191 (92.7%)	1.00	0.38	1477.1
	TT	236 (9.1%)	15 (7.3%)	0.79 (0.46-1.36)		
Over dominant	CC-TT	1512 (58%)	102 (49.5%)	1.00	0.019	1472.4
	СТ	1097 (42%)	104 (50.5%)	1.41 (1.06-1.87)*		
Log-Additive				1.12 (0.90-1.39)	0.3	1476.8
HWE (p value)		1	0.039			

^{*}Significant odds ratio. The p value is obtained by comparison of Akaike information criterion (AIC) from different models; CVE, cardiovascular events.

Supplemental Table	· ·	· ·				
Model	Genotype	No CVE N = 2609 n (%)	CVE N = 206 n (%)	Odds ratio (95% CI)	<i>p</i> value	AIC
	AA	1313 (50.3%)	91 (44.2%)	1.00		
Co-dominant	AC	1062 (40.7%)	100 (48.5%)	1.36 (1.01-1.83)*	0.086	1475.3
	СС	236 (9%)	15 (7.3%)	0.92 (0.52-1.61)		
Dominant	AA	1313 (50.3%)	91 (44.2%)	1.00	0.091	1475.3
	AC-CC	1298 (49.7%)	115 (55.8%)	1.28 (0.96-1.70)		
Recessive	AA-AC	2375 (91%)	191 (92.7%)	1.00	0.38	1477.4
	CC	236 (9%)	15 (7.3%)	0.79 (0.46-1.36)		
Over dominant	AA-CC	1549 (59.3%)	106 (51.5%)	1.00	0.028	1473.3
	AC	1062 (40.7%)	100 (48.5%)	1.38 (1.04-1.83)*		
Log-Additive				1.11 (0.89-1.37)	0.36	1477.3
HWE (p value)		0.32	0.11			

^{*}Significant odds ratio. The p value is obtained by comparison of Akaike information criterion (AIC) from different models. CVE, cardiovascular events.

Model	Genotype	No CVE	CVE			
		N = 2609 n (%)	N = 206 n (%)	Odds ratio (95% CI)	<i>p</i> value	AIC
	CC	224(22.4%)	12(23.1%)	1.00		
Co-dominant	СТ	514(51.5%)	29(55.8%)	1.05 (0.53-2.10)	0.72	419.3
	TT	260(26.1%)	11(21.1%)	0.79 (0.34–1.82)		
Dominant	CC	224(22.4%)	12(23.1%)	1.00	0.92	417.9
	CT-TT	774(77.6%)	40(76.9%)	0.96 (0.50-1.87)		
Recessive	CC-CT	738(74%)	41(78.8%)	1.00	0.42	417.3
	TT	260(26.1%)	11(21.1%)	0.76 (0.39–1.50)		
Over dominant	CC-TT	484(48.5%)	23(44.2%)	1.19 (0.68-2.08)	0.55	417.6
	СТ	514(51.5%)	29(55.8%)			
Log-Additive				0.89 (0.60-1.33)	0.58	417.6
HWE (p value)		0.34	0.58			

^{*}Significant odds ratio. The p value is obtained by comparison of Akaike information criterion (AIC) from different models.

Model	Genotype	No CVE	CVE			
		N = 2609 n (%)	N = 206 n (%)	Odds ratio (95% CI)	p value	AIC
	GG	126(6%)	8(5.3%)	1.00		
Co-dominant	GT	751(35.7%)	59(39.1%)	1.24 (0.58-2.65)	0.7	1113.
	TT	1225(58.3%)	84(55.6%)	1.08 (0.51-2.28		
Dominant	GG	126(6%)	8(5.3%)	1.00	0.72	1111.
	GT-TT	1976(94%)	143(94.7%)	1.14 (0.55-2.38)		
Recessive	GG-GT	877(41.7%)	67(44.4%)	1.00	0.52	1111.
	TT	1225(58.3%)	84(55.6%)	0.90 (0.64-1.25)		
Over dominant	GG-TT	1351(64.3%)	92(60.9%)	1.00	0.41	1111.
	GT	751(35.7%)	59(39.1%)	1.15 (0.82-1.62)		
Log-Additive				0.95 (0.73-1.24)	0.7	1111.
HWE (p value)		0.44	0.67			

^{*}Significant odds ratio. The *p* value is obtained by comparison of Akaike information criterion (AIC) from different models.