

**Web table E** Association of genotypes with low density lipoprotein-cholesterol (mmol/l) (phase 3 and phase 7)

<i>Gene</i>	Genotype	Number	Phase 3	Phase 7	Beta-value (standard error) all years combined
<i>ADAMTS9</i>	GG	2878	4.37 (1.01)	3.55 (0.93)	0
	GA	1857	4.36 (1.02)	3.50 (0.94)	-0.040 (0.025)
	AA	297	4.34 (1.03)	3.44 (0.98)	-0.108 (0.050)
	P value <sup>1</sup>		0.85	0.04	
	P value <sup>2</sup>		0.68	0.05	0.03
<i>BCL11A</i>	AA	2728	4.37 (1.01)	3.53 (0.94)	0
	AG	1909	4.35 (1.02)	3.51 (0.94)	-0.017 (0.025)
	GG	380	4.36 (1.02)	3.55 (0.96)	-0.001 (0.045)
	P value <sup>1</sup>		0.82	0.76	
	P value <sup>2</sup>		0.78	0.78	0.67
<i>CALPN10</i>	GG	2945	4.38 (1.00)	3.55 (0.94)	0
	GA	2150	4.37 (1.04)	3.53 (0.93)	-0.005 (0.023)
	AA	378	4.24 (0.99)	3.40 (0.88)	-0.118 (0.045)
	P value <sup>1</sup>		0.06	0.02	
	P value <sup>2</sup>		0.08	0.01	0.01*
<i>CDC123, CAMK1D</i>	AA	3464	4.36 (1.00)	3.52 (0.91)	0
	AG	1448	4.38 (1.05)	3.54 (0.99)	0.008 (0.026)
	GG	124	4.26 (1.01)	3.48 (0.98)	-0.090 (0.076)
	P value <sup>1</sup>		0.50	0.73	
	P value <sup>2</sup>		0.62	0.71	0.28
<i>CDKALI</i>	GG	4463	4.35 (1.01)	3.52 (0.94)	0
	GA	543	4.50 (1.02)	3.62 (0.95)	0.091 (0.037)
	AA	24	4.33 (1.16)	3.22 (0.93)	-0.192 (0.170)
	P value <sup>1</sup>		0.008	0.01	
	P value <sup>2</sup>		0.004	0.02	0.08
<i>CDKN</i>	AA	3257	4.34 (1.01)	3.52 (0.94)	0
	AG	1543	4.41 (1.01)	3.55 (0.93)	0.054 (0.026)
	GG	149	4.45 (1.03)	3.42 (1.00)	-0.031 (0.069)
	P value <sup>1</sup>		0.04	0.18	
	P value <sup>2</sup>		0.07	0.18	0.87
<i>FTO</i>	TT	1953	4.37 (1.04)	3.52 (0.95)	0
	TC	2716	4.35 (0.99)	3.54 (0.92)	-0.018 (0.025)
	CC	938	4.40 (1.01)	3.52 (0.95)	0.001 (0.033)
	P value <sup>1</sup>		0.49	0.83	
	P value <sup>2</sup>		0.51	0.81	0.85
<i>HHEX</i>	GG	2635	4.35 (1.03)	3.55 (0.96)	0
	GA	1968	4.38 (1.01)	3.50 (0.93)	-0.016 (0.025)
	AA	405	4.37 (0.98)	3.51 (0.84)	-0.019 (0.044)
	P value <sup>1</sup>		0.68	0.26	
	P value <sup>2</sup>		0.73	0.26	0.71

<i>HNF1A</i>	CC	5106	4.36 (1.01)	3.54 (0.94)	0
	CT	301	4.34 (1.06)	3.44 (0.94)	-0.065 (0.049)
	TT	5	4.79 (0.57)	4.36 (0.84)	0.756 (0.380)
	P value <sup>1</sup>		0.64	0.03	
	P value <sup>2</sup>		0.50	0.03	0.05*
<i>IGF2BP2</i>	CC	2362	4.39 (1.04)	3.57 (0.96)	0
	AC	2182	4.34 (0.99)	3.49 (0.91)	-0.069 (0.025)
	AA	485	4.38 (0.98)	3.49 (0.92)	-0.032 (0.041)
	P value <sup>1</sup>		0.23	0.02	
	P value <sup>2</sup>		0.15	0.02	0.70
<i>JAZF1</i>	AA	1269	4.41 (1.06)	3.55 (0.98)	0
	AG	2453	4.35 (0.99)	3.54 (0.91)	-0.032 (0.029)
	GG	1304	4.35 (1.01)	3.48 (0.95)	-0.068 (0.033)
	P value <sup>1</sup>		0.26	0.09	
	P value <sup>2</sup>		0.13	0.11	0.07
<i>KCNJ11</i>	CC	2313	4.36 (1.02)	3.51 (0.93)	0
	CT	2478	4.37 (1.01)	3.56 (0.95)	0.045 (0.024)
	TT	720	4.35 (1.05)	3.52 (0.91)	0.004 (0.036)
	P value <sup>1</sup>		0.88	0.14	
	P value <sup>2</sup>		P=0.76	P=0.15	P=0.39
<i>NOTCH2</i>	CC	4024	4.35 (1.01)	3.52 (0.94)	0
	AC	949	4.43 (1.03)	3.55 (0.93)	0.053 (0.030)
	AA	62	4.13 (0.93)	3.39 (0.90)	-0.194 (0.106)
	P value <sup>1</sup>		0.04	0.33	
	P value <sup>2</sup>		0.04	0.34	0.21
<i>PPARG</i>	CC	4290	4.35 (1.02)	3.52 (0.94)	0
	CG	1138	4.41 (0.97)	3.56 (0.93)	0.029 (0.028)
	GG	86	4.50 (1.14)	3.48 (0.96)	0.019 (0.090)
	P value <sup>1</sup>		0.11	0.48	
	P value <sup>2</sup>		0.09	0.53	0.33
<i>SLC30A8</i>	GG	2416	4.35 (0.99)	3.55 (0.94)	0
	GA	2177	4.38 (1.04)	3.51 (0.93)	-0.009 (0.024)
	AA	428	4.34 (0.99)	3.49 (0.97)	-0.048 (0.043)
	P value <sup>1</sup>		0.52	0.30	
	P value <sup>2</sup>		0.48	0.34	0.28
<i>TCF2</i> ( <i>HNF1B</i> )	AA	1395	4.28 (0.96)	3.51 (0.92)	0
	AG	2446	4.39 (1.03)	3.53 (0.94)	0.071 (0.028)
	GG	1154	4.39 (1.04)	3.53 (0.95)	0.063 (0.033)
	P value <sup>1</sup>		0.004	0.65	
	P value <sup>2</sup>		0.005	0.63	0.38
<i>TCF7L2</i>	AA	2365	4.34 (1.03)	3.54 (0.93)	0
	AG	2173	4.38 (1.01)	3.52 (0.95)	0.004 (0.025)
	GG	467	4.37 (0.97)	3.49 (0.89)	-0.016 (0.042)
	P value <sup>1</sup>		0.45	0.60	
	P value <sup>2</sup>		0.45	0.60	0.86
<i>THADA</i>	AA	3953	4.35 (1.02)	3.51 (0.95)	0

	AG	1003	4.40 (0.99)	3.58 (0.89)	0.059 (0.029)
	GG	75	4.34 (1.06)	3.46 (0.87)	-0.087 (0.097)
	P value <sup>1</sup>		0.42	0.10	
	P value <sup>2</sup>		0.32	0.12	0.70
<i>TSPAN8,</i> <i>LGR5</i>	AA	1762	4.36 (1.01)	3.50 (0.95)	0
	AG	2424	4.38 (1.02)	3.55 (0.94)	0.029 (0.026)
	GG	838	4.34 (1.00)	3.52 (0.90)	0.011 (0.035)
	P value <sup>1</sup>		0.70	0.30	
	P value <sup>2</sup>		0.64	0.31	0.97
<i>VEGFA</i>	GG	2611	4.37 (1.02)	3.52 (0.94)	0
	GA	2008	4.35 (0.99)	3..52 (0.92)	-0.000 (0.025)
	AA	400	4.44 (1.09)	3.63 (1.01)	0.106 (0.044)
	P value <sup>1</sup>		0.33	0.06	
	P value <sup>2</sup>		0.23	0.06	0.10

Results are mean (SD)

<sup>1</sup> ANOVA, unadjusted

<sup>2</sup> ANOVA, adjusted for age and gender.

\*recessive model

B(se) is the coefficient for overall genotype effect estimated from a mixed model with age at phase1 and gender included as fixed covariates. The change in cholesterol over time is allowed to vary between subjects.