

Supplemental table 1. Results of the logistic regression analysis to determine the genetic inheritance model that best described the weight loss effect at 3 months for all SNPs (< 5% weight loss is reference).

SNP Gene	Model	Genotype	OR (95% CI)	P value
rs4340 ACE	Co-dominant	DE/DE	1.00	0.88
		DE/INS	0.90 (0.61-1.35)	
		INS/INS	0.95 (0.59-1.54)	
	Dominant	DE/DE	1.00	0.66
		DE/INS-INS/INS	0.92 (0.63-1.34)	
Recessive	DE/DE-DE/INS INS/INS	1.00 1.01 (0.67-1.53)	0.95	
Overdominant	DE/DE-INS/INS DE/INS	1.00 0.92 (0.66-1.30)	0.65	
	Log-additive		0.97 (0.76-1.23)	0.80
rs17300539 ADIPOQ	Co-dominant	G/G	1.00	0.73
		G/A	1.20 (0.75-1.92)	
		A/A	0.78 (0.07-8.70)	
	Dominant	G/G	1.00	0.48
		G/A-A/A	1.18 (0.74-1.88)	
Recessive	G/G-G/A A/A	1.00 0.76 (0.07-8.45)	0.82	
Overdominant	G/G-A/A G/A	1.00 1.20 (0.75-1.93)	0.45	
	Log-additive		1.15 (0.74-1.79)	0.53
rs266729 ADIPOQ	Co-dominant	C/C	1.00	0.37
		G/C	1.01 (0.70-1.44)	
		G/G	0.58 (0.26-1.27)	
	Dominant	C/C	1.00	0.73
G/C-G/G		0.94 (0.67-1.33)		
Recessive	C/C-G/C G/G	1.00 0.58 (0.26-1.27)	0.16	
Overdominant	C/C-G/G G/C	1.00 1.06 (0.74-1.50)	0.76	

	Log-additive		0.89 (0.67-1.18)	0.41
rs1042713 ADRB2	Co-dominant	G/G	1.00	0.64
		G/A	1.03 (0.71-1.48)	
		A/A	0.80 (0.47-1.37)	
	Dominant	G/G	1.00	0.87
		G/A-A/A	0.97 (0.69-1.38)	
Recessive	G/G-G/A	1.00	0.35	
	A/A	0.79 (0.48-1.30)		
Overdominant	G/G-A/A	1.00	0.62	
	G/A	1.09 (0.78-1.53)		
	Log-additive		0.93 (0.73-1.19)	0.56
rs10767664 BDNF	Co-dominant	A/A	1.00	0.82
		T/A	0.91 (0.63-1.31)	
		T/T	1.11 (0.51-2.41)	
	Dominant	A/A	1.00	0.69
		T/A-A/A	0.93 (0.66-1.32)	
Recessive	A/A-T/A	1.00	0.73	
	T/T	1.14 (0.53-2.47)		
Overdominant	A/A-T/T	1.00	0.57	
	T/A	0.90 (0.63-1.29)		
	Log-additive		0.97 (0.73-1.30)	0.84
rs1800169 CNTF	Co-dominant	G/G	1.00	0.81
		G/A	0.97 (0.66-1.43)	
		A/A	0.59 (0.11-3.07)	
	Dominant	G/G	1.00	0.79
		G/A-A/A	0.95 (0.65-1.39)	
Recessive	G/G-G/A	1.00	0.52	
	A/A	0.59 (0.11-3.09)		
Overdominant	G/G-A/A	1.00	0.91	
	G/A	0.98 (0.66-1.44)		
	Log-additive		0.93 (0.65-1.33)	0.69

rs3742207 COL4A1	Co-dominant	T/T T/G G/G	1.00 1.13 (0.79-1.64) 1.09 (0.63-1.88)	0.80
	Dominant	T/T T/G-G/G	1.00 1.12 (0.79-1.59)	0.51
	Recessive	T/T-T/G G/G	1.00 1.02 (0.61-1.69)	0.95
	Overdominant	T/T-G/G T/G	1.00 1.11 (0.79-1.56)	0.55
	Log-additive		1.07 (0.83-1.38)	0.61
rs9580500 COL4A2	Co-dominant	T/T T/C C/C	1.00 1.03 (0.69-1.53) 1.31 (0.81-2.12)	0.49
	Dominant	T/T T/C-C/C	1.00 1.11 (0.76-1.60)	0.60
	Recessive	T/T-T/C C/C	1.00 1.29 (0.85-1.95)	0.24
	Overdominant	T/T-C/C T/C	1.00 0.92 (0.65-1.29)	0.63
	Log-additive		1.13 (0.89-1.44)	0.31
rs1053312 COL6A1	Co-dominant	G/G G/A A/A	1.00 1.22 (0.85-1.74) 1.27 (0.68-2.35)	0.50
	Dominant	G/G G/A-A/A	1.00 1.23 (0.87-1.73)	0.24
	Recessive	G/G-G/A A/A	1.00 1.15 (0.63-2.08)	0.65
	Overdominant	G/G-A/A G/A	1.00 1.17 (0.83-1.65)	0.36
	Log-additive		1.16 (0.89-1.51)	0.27
rs2839110 COL6A2	Co-dominant	A/A G/A G/G	1.00 0.99 (0.68-1.44) 0.74 (0.27-2.02)	0.84

	Dominant	A/A G/A-G/G	1.00 0.96 (0.67-1.38)	0.84
	Recessive	A/A-G/A G/G	1.00 0.74 (0.27-2.01)	0.055
	Overdominant	A/A-G/G G/A	1.00 1.00 (0.69-1.46)	0.98
	Log-additive		0.94 (0.69-1.29)	0.72
rs2270669 COL6A3	Co-dominant	G/G G/C C/C	1.00 1.02 (0.71-1.46) 0.95 (0.46-1.96)	0.98
	Dominant	G/G G/C-C/C	1.00 1.01 (0.71-1.42)	0.97
	Recessive	G/G-G/C C/C	1.00 0.94 (0.46-1.92)	0.87
	Overdominant	G/G-C/C G/C	1.00 1.02 (0.72-1.46)	0.90
	Log-additive		1.00 (0.75-1.32)	0.98
rs9939609 FTO	Co-dominant	T/T T/A A/A	1.00 0.80 (0.55-1.16) 1.73 (0.82-3.67)	0.49
	Dominant	T/T T/A-A/A	1.00 0.81 (0.57-1.16)	0.25
	Recessive	T/T-T/A A/A	1.00 0.97 (0.62-1.50)	0.88
	Overdominant	T/T-A/A T/A	1.00 0.84 (0.60-1.18)	0.32
	Log-additive		0.90 (0.71-1.14)	0.39
rs1558902 FTO	Co-dominant	T/T T/A A/A	1.00 0.86 (0.58-1.25) 0.84 (0.52-1.36)	0.67
	Dominant	T/T T/A-A/A	1.00 0.85 (0.60-1.21)	0.37

	Recessive	T/T-T/A A/A	1.00 0.92 (0.59-1.41)	0.69	
	Overdominant	T/T-A/A T/A	1.00 0.91 (0.65-1.28)	0.59	
	Log-additive		0.91 (0.72-1.15)	0.42	
	rs4731426 LEP	Co-dominant	C/C G/C G/G	1.00 1.41 (0.96-2.09) 1.20 (0.73-1.98)	0.21
		Dominant	C/C G/C-G/G	1.00 1.35 (0.94-1.95)	0.11
		Recessive	C/C-G/C G/G	1.00 0.97 (0.63-1.51)	0.90
	Overdominant	C/C-G/G C/G	1.00 1.32 (0.94-1.86)	0.11	
	Log-additive		1.13 (0.89-1.45)	0.31	
	rs1132896 MMP2	Co-dominant	G/G G/C C/C	1.00 0.85 (0.59-1.23) 1.69 (1.01-2.83)	0.034
Dominant		G/G G/C-C/C	1.00 1.01 (0.72-1.43)	0.95	
Recessive		G/G-G/C C/C	1.00 1.83 (1.13-2.96)	0.014	
Overdominant		G/G-C/C G/C	1.00 0.74 (0.53-1.05)	0.09	
Log-additive			1.17 (0.92-1.50)	0.20	
rs10938397 Near GNPDA2	Co-dominant	A/A G/A G/G	1.00 0.88 (0.60-1.31) 0.84 (0.52-1.35)	0.73	
	Dominant	A/A G/A-G/G	1.00 0.87 (0.60-1.25)	0.45	
	Recessive	A/A-G/A G/G	1.00 0.90 (0.59-1.37)	0.63	
	Overdominant	A/A-G/G	1.00		

		G/A	0.95 (0.67-1.33)	0.76
	Log-additive		0.91 (0.72-1.16)	0.45
rs12444979 Near GPRC5B	Co-dominant	C/C	1.00	0.49
		T/C	0.78 (0.51-1.18)	
		T/T	0.87 (0.20-3.67)	
	Dominant	C/C	1.00	0.23
		T/C-T/T	0.78 (0.52-1.18)	
	Recessive	C/C-T/C	1.00	0.91
		T/T	0.92 (0.22-3.88)	
	Overdominant	C/C-T/T	1.00	0.24
		T/C	0.78 (0.51-1.18)	
	Log-additive		0.81 (0.56-1.18)	0.26
rs571312 Near MC4R	Co-dominant	C/C	1.00	0.31
		C/A	1.32 (0.92-1.89)	
		A/A	1.27 (0.69-2.32)	
	Dominant	C/C	1.00	0.13
		C/A-A/A	1.31 (0.93-1.84)	
	Recessive	C/C-C/A	1.00	0.71
		A/A	1.11 (0.63-1.99)	
	Overdominant	C/C-A/A	1.00	0.18
		C/A	1.27 (0.90-1.79)	
	Log-additive		1.19 (0.92-1.55)	0.18
rs11847697 Near PRKD1	Co-dominant	C/C	1.00	0.11
		T/C	1.37 (0.80-2.33)	
		T/T	NA	
	Dominant	C/C	1.00	0.40
		T/C-T/T	1.25 (0.74-2.11)	
	Recessive	C/C-T/C	1.00	NA
		T/T	NA	
	Overdominant	C/C-T/T	1.00	0.23
		T/C	1.38 (0.81-2.35)	
	Log-additive		1.13 (0.69-1.85)	0.62

rs2867125 Near TMEM18	Co-dominant	C/C	1.00	0.39
		C/T	1.29 (0.87-1.91)	
		T/T	0.80 (0.27-2.39)	
	Dominant	C/C	1.00	0.28
		C/T-T/T	1.23 (0.85-1.80)	
Recessive	C/C-C/T	1.00	0.60	
	T/T	0.75 (0.25-2.22)		
Overdominant	C/C-T/T	1.00	0.19	
	C/T	1.30 (0.88-1.92)		
Log-additive		1.14 (0.82-1.58)	0.44	
rs2304795 PLIN1	Co-dominant	A/A	1.00	0.06
		G/A	1.07 (0.73-1.56)	
		G/G	1.82 (1.09-3.04)	
	Dominant	A/A	1.00	0.26
		G/A-G/G	1.23 (0.86-1.75)	
Recessive	A/A-G/A	1.00	0.018	
	G/G	1.75 (1.10-2.79)		
Overdominant	A/A-G/G	1.00	0.52	
	G/A	0.89 (0.63-1.26)		
Log-additive		1.29 (1.01-1.65)	0.043	
rs2289487 PLIN1	Co-dominant	A/A	1.00	0.03
		A/G	0.98 (0.67-1.42)	
		G/G	1.89 (1.11-3.22)	
	Dominant	A/A	1.00	0.48
		A/G-G/G	1.14 (0.80-1.61)	
Recessive	A/A-A/G	1.00	0.009	
	G/G	1.92 (1.17-3.13)		
Overdominant	A/A-G/G	1.00	0.27	
	A/G	0.82 (0.59-1.16)		
Log-additive		1.27 (0.98-1.63)	0.07	
rs1052700 PLIN1	Co-dominant	A/A	1.00	0.10
		T/A	0.99 (0.68-1.43)	
		T/T	1.71 (1.00-2.92)	

	Dominant	A/A T/A-T/T	1.00 1.11 (0.79-1.58)	0.54
	Recessive	A/A-T/A T/T	1.00 1.72 (1.04-2.82)	0.033
	Overdominant	A/A-T/T T/A	1.00 0.86 (0.61-1.21)	0.39
	Log-additive		1.21 (0.94-1.56)	0.13
	Co-dominant	C/C C/G G/G	1.00 1.32 (0.85-2.04) 0.59 (0.15-2.26)	0.32
rs1801282 PPARG	Dominant	C/C C/G-G/G	1.00 1.23 (0.81-1.86)	0.34
	Recessive	C/C-C/G G/G	1.00 0.56 (0.15-2.14)	0.38
	Overdominant	C/C-G/G C/G	1.00 1.33 (0.86-2.06)	0.20
	Log-additive		1.11 (0.77-1.60)	0.57
	Co-dominant	G/G G/C C/C	1.00 0.99 (0.68-1.44) 1.18 (0.70-2.02)	0.78
rs41423247 PPARG	Dominant	G/G G/C-C/C	1.00 1.03 (0.72-1.47)	0.86
	Recessive	G/G-G/C G/G	1.00 1.19 (0.73-1.94)	0.49
	Overdominant	G/G-C/C G/C	1.00 0.95 (0.67-1.33)	0.75
	Log-additive		1.06 (0.83-1.37)	0.63
	Co-dominant	A/A G/A G/G	1.00 0.90 (0.62-1.30) 0.92 (0.30-2.88)	0.85
rs2287019 QPCTL	Dominant	A/A G/A-G/G	1.00 0.90 (0.63-1.29)	0.57
	Recessive	A/A-G/A	1.00	

		G/G	0.96 (0.31-2.96)	0.94
	Overdominant	A/A-G/G G/A	1.00 0.90 (0.63-1.30)	0.59
	Log-additive		0.92 (0.66-1.27)	0.60
rs543874 SEC16B	Co-dominant	A/A G/A G/G	1.00 0.92 (0.63-1.33) 1.89 (0.90-3.97)	0.18
	Dominant	A/A G/A-G/G	1.00 1.02 (0.72-1.45)	0.90
	Recessive	A/A-G/A G/G	1.00 1.95 (0.94-4.04)	0.07
	Overdominant	A/A-G/G G/A	1.00 0.87 (0.60-1.25)	0.44
	Log-additive		1.12 (0.85-1.49)	0.42
	rs7359397 SH2B1	Co-dominant	C/C T/C T/T	1.00 1.25 (0.86-1.82) 1.17 (0.68-2.03)
Dominant		C/C T/C-T/T	1.00 1.23 (0.86-1.76)	0.24
Recessive		C/C-T/C T/T	1.00 1.03 (0.62-1.71)	0.90
Overdominant		C/C-T/T T/C	1.00 1.03 (0.62-1.71)	0.30
Log-additive			1.12 (0.87-1.45)	0.37
rs13107325 SLC39A8	Co-dominant	C/C T/C T/T	1.00 1.17 (0.70-1.98) 0.78 (0.07-8.62)	0.81
	Dominant	C/C T/C-T/T	1.00 1.15 (0.69-1.93)	0.58
	Recessive	C/C-T/C T/T	1.00 0.76 (0.07-8.45)	0.82
	Overdominant	C/C-T/T C/T	1.00 1.18 (0.70-1.82)	0.54
	Log additive		1.12 (0.69-1.82)	0.64

rs3755724 TIMP4	Co-dominant	C/C	1.00	0.18
		T/C	1.41 (0.98-2.04)	
		T/T	1.17 (0.67 -2.03)	
	Dominant	C/C	1.00	0.09
		T/C-T/T	1.36 (0.96-1.92)	
	Recessive	C/C-T/C	1.00	0.93
		T/T	0.98 (0.58-1.64)	
	Overdominant	C/C-T/T	1.00	0.08
		T/C	1.36 (0.97-1.92)	
Log-additive		1.17 (0.91-1.50)	0.23	

Odds ratio (OR), 95% confidence interval (95% CI), and P-values were retrieved from logistic regression analyses with the co-dominant, dominant, recessive, overdominant and log-additive models. The best fitting model has the lowest P value. NA is not available.

Supplemental table 2. Results of the logistic regression analysis to determine the genetic inheritance model that best described the weight loss effect at 12 months for all SNPs (< 5% weight loss is reference).

SNP Gene	Model	Genotype	OR (95% CI)	P value	
rs4340 ACE	Co-dominant	DE/DE	1.00	0.29	
		DE/INS	1.02 (0.56-1.85)		
		INS/INS	0.64 (0.33-1.26)		
	Dominant	DE/DE	1.00	0.60	
		DE/INS-INS/INS	0.86 (0.50-1.50)		
	Recessive	DE/DE-DE/INS INS/INS	1.00 0.64 (0.36-1.12)	0.12	
	Overdominant	DE/DE-INS/INS DE/INS	1.00 1.25 (0.76-2.06)	0.38	
	Log-additive		0.80 (0.57-1.13)	0.21	
	rs17300539 ADIPOQ	...	G/G	1.00	0.77
			G/A	1.11 (0.54-2.28)	
	rs266729 ADIPOQ	Co-dominant	C/C	1.00	1.00
			G/C	1.00 (0.59-1.67)	
			G/G	0.99 (0.31-3.09)	
		Dominant	C/C	1.00	0.98
			G/C-G/G	1.00 (0.60-1.64)	
Recessive		C/C-G/C G/G	1.00 0.99 (0.32-3.03)	0.98	
Overdominant		C/C-G/G G/C	1.00 1.00 (0.60-1.66)	0.99	
Log-additive			0.99 (0.65-1.51)	0.98	
rs1042713 ADRB2		Co-dominant	G/G	1.00	0.62
			G/A	1.27 (0.74-2.18)	
	A/A		1.32 (0.63-2.78)		
	Dominant	G/G	1.00	0.33	
		G/A-A/A	1.28 (0.78-2.13)		
	Recessive	G/G-G/A A/A	1.00 1.16 (0.58-2.32)	0.67	

	Overdominant	G/G-A/A G/A	1.00 1.18 (0.72-1.94)	0.52
	Log-additive		1.18 (0.82-1.68)	0.37
rs10767664 BDNF	Co-dominant	A/A T/A T/T	1.00 0.81 (0.48-1.37) 1.18 (0.29-4.72)	0.69
	Dominant	A/A T/A-A/A	1.00 0.84 (0.50-1.40)	0.50
	Recessive	A/A-T/A T/T	1.00 1.27 (0.32-5.03)	0.73
	Overdominant	A/A-T/T T/A	1.00 0.80 (0.47-1.35)	0.40
	Log-additive		0.90 (0.58-1.40)	0.64
	rs1800169 CNTF	Co-dominant	G/G G/A A/A	1.00 0.90 (0.52-1.54) NA
Dominant		G/G G/A-A/A	1.00 0.97 (0.57-1.65)	0.90
Recessive		G/G-G/A A/A	1.00 NA	0.06
Overdominant		G/G-A/A G/A	1.00 0.87 (0.51-1.49)	0.61
Log-additive			1.06 (0.64-1.75)	0.82
rs3742207 COL4A1	Co-dominant	T/T T/G G/G	1.00 1.13 (0.67-1.91) 1.27 (0.54-2.95)	0.83
	Dominant	T/T T/G-G/G	1.00 1.15 (0.70-1.91)	0.58
	Recessive	T/T-T/G G/G	1.00 1.19 (0.53-2.63)	0.67
	Overdominant	T/T-G/G T/G	1.00 1.07 (0.65-1.76)	0.79
	Log-additive		1.13 (0.77-1.65)	0.54

rs9580500 COL4A2	Co-dominant	T/T T/C C/C	1.00 0.93 (0.52-1.65) 1.05 (0.51-2.15)	0.92
	Dominant	T/T T/C-C/C	1.00 0.96 (0.56-1.66)	0.88
	Recessive	T/T-T/C C/C	1.00 1.10 (0.59-2.04)	0.76
	Overdominant	T/T-C/C T/C	1.00 0.91 (0.55-1.49)	0.70
	Log-additive		1.01 (0.71-1.44)	0.94
rs1053312 COL6A1	Co-dominant	G/G G/A A/A	1.00 1.50 (0.88-2.54) 1.17 (0.50-2.74)	0.32
	Dominant	G/G G/A-A/A	1.00 1.43 (0.87-2.35)	0.16
	Recessive	G/G-G/A A/A	1.00 0.97 (0.43-2.19)	0.94
	Overdominant	G/G-A/A G/A	1.00 1.46 (0.88-2.42)	0.14
	Log-additive		1.22 (0.83-1.79)	0.31
rs2839110 COL6A2	Co-dominant	A/A G/A G/G	1.00 0.98 (0.57-1.67) 0.21 (0.04-1.09)	0.14
	Dominant	A/A G/A-G/G	1.00 0.87 (0.52-1.46)	0.59
	Recessive	A/A-G/A G/G	1.00 0.21 (0.04-1.09)	0.05
	Overdominant	A/A-G/G G/A	1.00 1.04 (0.61-1.77)	0.89
	Log-additive		0.78 (0.49-1.23)	0.28
rs2270669	Co-dominant	G/G	1.00	

COL6A3		G/C	1.56 (0.90-2.71)	0.16
		C/C	0.68 (0.25-1.85)	
	Dominant	G/G	1.00	0.25
		G/C-C/C	1.35 (0.81-2.26)	
	Recessive	G/G-G/C	1.00	0.29
	C/C	0.58 (0.22-1.56)		
Overdominant	G/G-C/C	1.00	0.08	
	G/C	1.62 (0.94-2.78)		
Log-additive		1.11 (0.73-1.67)	0.62	
rs9939609 FTO	Co-dominant	T/T	1.00	0.16
		T/A	1.60 (0.93-2.76)	
		A/A	1.73 (0.82-3.67)	
	Dominant	T/T	1.00	0.06
		T/A-A/A	1.64 (0.99-2.71)	
Recessive	T/T-T/A	1.00	0.39	
	A/A	1.36 (0.67-2.73)		
Overdominant	T/T-A/A	1.00	0.21	
	T/A	1.38 (0.83-2.28)		
Log-additive		1.38 (0.96-1.98)	0.08	
rs1558902 FTO	Co-dominant	T/T	1.00	0.17
		T/A	1.65 (0.96-2.86)	
		A/A	1.58 (0.76-3.28)	
	Dominant	T/T	1.00	0.06
		T/A-A/A	1.63 (0.98-2.72)	
Recessive	T/T-T/A	1.00	0.58	
	A/A	1.21 (0.62-2.36)		
Overdominant	T/T-A/A	1.00	0.15	
	T/A	1.44 (0.87-2.37)		
Log-additive		1.33 (0.93-1.90)	0.11	
rs4731426 LEP	Co-dominant	C/C	1.00	0.62
		G/C	0.81(0.45-1.43)	
		G/G	0.71 (0.34-1.48)	
Dominant	C/C	1.00		

		G/C-G/G	0.78 (0.45-1.34)	0.37
	Recessive	C/C-G/C G/G	1.00 0.81 (0.43-1.54)	0.52
	Overdominant	C/C-G/G C/G	1.00 0.92 (0.55-1.51)	0.73
	Log-additive		0.84 (0.58-1.20)	0.34
rs1132896 MMP2	Co-dominant	G/G G/C C/C	1.00 0.96 (0.56-1.64) 1.48 (0.68-3.21)	0.50
	Dominant	G/G G/C-C/C	1.00 1.07 (0.64-1.77)	0.80
	Recessive	G/G-G/C C/C	1.00 1.52 (0.74-3.11)	0.25
	Overdominant	G/G-C/C G/C	1.00 0.86 (0.52-1.42)	0.55
	Log-additive		1.15 (0.80-1.64)	0.44
rs10938397 Near GNPDA2	Co-dominant	A/A G/A G/G	1.00 1.16 (0.67-2.04) 1.32 (0.65-2.66)	0.73
	Dominant	A/A G/A-G/G	1.00 1.21 (0.72-2.04)	0.48
	Recessive	A/A-G/A G/G	1.00 1.21 (0.65-2.26)	0.55
	Overdominant	A/A-G/G G/A	1.00 1.05 (0.64-1.73)	0.85
	Log-additive		1.15 (0.82-1.62)	0.42
rs12444979 Near GPRC5B	Co-dominant	C/C T/C T/T	1.00 1.07 (0.58-1.97) 0.56 (0.03-9.13)	0.90
	Dominant	C/C T/C-T/T	1.00 1.05 (0.57-1.91)	0.88

	Recessive	C/C-T/C T/T	1.00 0.55 (0.03-8.97)	0.68	
	Overdominant	C/C-T/T T/C	1.00 1.08 (0.58-1.98)	0.81	
	Log-additive		1.02 (0.58-1.80)	0.96	
rs571312 Near MC4R	Co-dominant	C/C C/A A/A	1.00 1.07 (0.63-1.82) 0.95 (0.41-2.18)	0.95	
	Dominant	C/C C/A-A/A	1.00 1.05 (0.63-1.73)	0.86	
	Recessive	C/C-C/A A/A	1.00 0.92 (0.42-2.02)	0.83	
	Overdominant	C/C-A/A C/A	1.00 1.08 (0.65-1.79)	0.76	
	Log-additive		1.01 (0.69-1.46)	0.97	
	rs11847697 Near PRKD1		C/C T/C	1.00 0.70 (0.34-1.48)	0.36
	rs2867125 Near TMEM18	Co-dominant	C/C C/T T/T	1.00 1.68 (0.91-3.09) 1.23 (0.11-13.82)	0.24
Dominant		C/C C/T-T/T	1.00 1.65 (0.91-3.01)	0.09	
Recessive		C/C-C/T T/T	1.00 1.09 (0.10-12.20)	0.94	
Overdominant		C/C-T/T C/T	1.00 1.67 (0.91-3.08)	0.09	
Log-additive			1.57 (0.89-2.75)	0.11	
rs2289487 PLIN1	Co-dominant	A/A A/G G/G	1.00 1.01 (0.59-1.74) 1.46 (0.65-3.29)	0.61	
	Dominant	A/A A/G-G/G	1.00 1.09 (0.65-1.83)	0.74	

rs2304795 PLIN1	Recessive	A/A-A/G G/G	1.00 1.45 (0.69-3.06)	0.32
	Overdominant	A/A-G/G A/G	1.00 0.91 (0.55-1.50)	0.71
	Log-additive		1.15 (0.79-1.67)	0.45
	Co-dominant	A/A G/A G/G	1.00 1.35 (0.78-2.36) 0.62 (0.30-1.31)	0.12
	Dominant	A/A G/A-G/G	1.00 1.10 (0.66-1.83)	0.71
	Recessive	A/A-G/A G/G	1.00 0.54 (0.27-1.08)	0.08
	Overdominant	A/A-G/G G/A	1.00 1.53 (0.91-2.56)	0.10
rs1052700 PLIN1	Log-additive		0.89 (0.62-1.28)	0.54
	Co-dominant	A/A T/A T/T	1.00 1.17 (0.68-2.00) 1.82 (0.82-4.04)	0.33
	Dominant	A/A T/A-T/T	1.00 1.29 (0.77-2.15)	0.34
	Recessive	A/A-T/A T/T	1.00 1.66 (0.79-3.47)	0.17
	Overdominant	A/A-T/T T/A	1.00 0.99 (0.60-1.62)	0.96
rs1801282 PPARG	Log-additive		1.30 (0.90-1.87)	0.16
	Co-dominant	C/C C/G G/G	1.00 1.95 (1.01-3.79) 3.18 (0.36-27.69)	0.07
	Dominant	C/C C/G-G/G	1.00 2.03 (1.07-3.87)	0.025
	Recessive	C/C-C/G G/G	1.00 2.79 (0.32-24.24)	0.30
Overdominant	C/C-G/G	1.00		

		C/G	1.90 (0.98-3.69)	0.05
	Log-additive		1.91 (1.06-3.42)	0.022
rs41423247 PPARG	Co-dominant	G/G	1.00	
		G/C	0.95 (0.56-1.63)	0.95
		C/C	0.87 (0.38-1.99)	
	Dominant	G/G	1.00	
		G/C-C/C	0.94 (0.56-1.57)	0.80
	Recessive	G/G-G/C	1.00	
		G/G	0.90 (0.42-1.93)	0.78
	Overdominant	G/G-C/C	1.00	
		G/C	0.98 (0.60-1.62)	0.95
	Log-additive		0.94 (0.64-1.38)	0.75
rs2287019 QPCTL	Co-dominant	A/A	1.00	
		G/A	1.06 (0.63-1.81)	0.42
		G/G	3.52 (0.41-29.93)	
	Dominant	A/A	1.00	
		G/A-G/G	1.14 (0.68-1.92)	0.62
	Recessive	A/A-G/A	1.00	
		G/G	3.45 (0.41-29.08)	0.19
	Overdominant	A/A-G/G	1.00	
		G/A	1.02 (0.60-1.74)	0.93
	Log-additive		1.21 (0.76-1.94)	0.42
rs543874 SEC16B	Co-dominant	A/A	1.00	
		G/A	1.09 (0.64-1.86)	0.60
		G/G	1.90 (0.50-7.19)	
	Dominant	A/A	1.00	
		G/A-G/G	1.16 (0.69-1.94)	0.57
	Recessive	A/A-G/A	1.00	
		G/G	1.85 (0.50-6.88)	0.34
	Overdominant	A/A-G/G	1.00	
		G/A	1.04 (0.62-1.77)	0.87
	Log-additive		1.20 (0.77-1.85)	0.42

rs7359397 SH2B1	Co-dominant	C/C T/C T/T	1.00 1.09 (0.63-1.89) 1.09 (0.49-2.39)	0.95
	Dominant	C/C T/C-T/T	1.00 1.09 (0.65-1.83)	0.74
	Recessive	C/C-T/C T/T	1.00 1.03 (0.50-2.12)	0.93
	Overdominant	C/C-T/T T/C	1.00 1.07 (0.65-1.76)	0.80
	Log-additive		1.05 (0.73-1.53)	0.78
rs13107325 SLC39A8	Co-dominant	C/C T/C T/T	1.00 1.24 (0.56-2.73) 0.00 (NA)	0.10
	Dominant	C/C T/C-T/T	1.00 1.03 (0.49-2.18)	0.93
	Recessive	C/C-T/C T/T	1.00 0.00 (NA)	
	Overdominant	C/C-T/T C/T	1.00 1.27 (0.58-2.79)	0.55
	Log additive		0.88 (0.45-1.72)	0.71
rs3755724 TIMP4	Co-dominant	C/C T/C T/T	1.00 1.90 (1.10-3.30) 0.76 (0.35-1.64)	0.02
	Dominant	C/C T/C-T/T	1.00 1.52 (0.92-2.52)	0.10
	Recessive	C/C-T/C T/T	1.00 0.56 (0.27-1.15)	0.12
	Overdominant	C/C-T/T T/C	1.00 2.03 (1.21-3.41)	0.007
	Log-additive		1.08 (0.75-1.56)	0.69

Odds ratio (OR), 95% confidence interval (95% CI), and P-values were retrieved from logistic regression analyses with the co-dominant, dominant, recessive, overdominant and log-additive models. The best fitting model has the lowest P value. NA is not available.