

Top promoter[SNPs in top promoter]	Linkage	Corrected coexpression score	FDR
p@chr9:107669326..107669336,+ [rs4100654, rs13284054]		0.71	0.0
p2@ENST00000518619 [rs9987289, rs4841132]		0.67	0.0
	rs9987289:rs7357361 D'=1.0; r ² =0.57. enhancer@chr8:9219931-9220273 [rs7357361];rs4841132:rs7357361 D'=1.0; r ² =0.57. enhancer@chr8:9219931-9220273 [rs7357361]	0.1	0.76
chr11:47281010..47281020,+ [rs11039155]		0.64	0.0
p13@BC172787 [rs693]		0.64	0.0
p1@SLC17A3 [rs13198474]		0.6	0.0
p@chr18:47176875..47176889,+ [rs4939886, rs4939887, rs4939888]		0.55	0.0
p@chr19:45411878..45411884,- [rs7412]		0.52	0.0
p2@F2 [rs2070852, rs5896]		0.51	0.0
	rs2070852:rs4752927 D'=1.0; r ² =0.29. p@chr11:46702222..46702264,- [rs4752927];rs5896:rs4752927 D'=1.0; r ² =0.84. p@chr11:46702222..46702264,- [rs4752927]	0.26	0.38
p1@APOA5 [rs651821]		0.5	0.0
	rs651821:rs11216164 D'=1.0; r ² =0.06. p@chr11:116734451..116734464,- [rs11216164]	0.09	0.79
p8@ALDH1A2 [rs1122208]		0.48	0.01
chr8:19824080..19824096,+ [rs1059507, rs3735964]		0.48	0.01
	rs3735964:rs1569209 D'=1.0; r ² =0.87. p@chr8:19830089..19830095,+ [rs1569209]	0.29	0.29
enhancer@chr7:73037168-73037552 [rs55747707]		0.48	0.01
p2@ENST00000519197 [rs28597716]		0.48	0.01
p@chr2:165603312..165603317,- [rs10178921]		0.45	0.02
	rs10178921:rs355894 D'=1.0; r ² =0.22. enhancer@chr2:165635333-165635585 [rs355894] rs10178921:rs355863 D'=1.0; r ² =1.0. p10@COBLL1 [rs355863]	0.11	0.76
p@chr8:116588829..116588841,+ [rs2049867]		0.44	0.02
p8@MMP9 [rs2236416]		0.43	0.03
p@chr19:11334017..11334033,- [rs4804154, rs4804155]		0.43	0.03
	rs4804154:rs737337 D'=0.92; r ² =0.66. p@chr19:11347228..11347241,- [rs737337];rs4804155:rs737337 D'=0.92; r ² =0.66. p@chr19:11347228..11347241,- [rs737337]	0.35	0.17
p@chr19:52327915..52327926,+ [rs3752125]		0.4	0.08
chr11:122526685..122526694,+ [rs7127978]		0.39	0.09
p@chr7:17287199..17287204,+ [rs6968554]		0.38	0.1
p@chr15:58576429..58576468,- [rs1711037]		0.38	0.1
p@chr12:20473724..20473755,+ [rs7134375]		0.38	0.1
p@chr4:88057279..88057283,+ [rs1408]		0.37	0.14
p5@INHBE [rs3809114]		0.36	0.14
p3@LIPC [rs2070895]		0.36	0.15
chr11:48066327..48066358,+ [rs7934659]		0.35	0.17
enhancer@chr15:58884938-58885321 [rs11637365]		0.34	0.18
p@chr19:8468345..8468362,+ [rs2230876]		0.33	0.2
p@chr2:211540478..211540490,+ [rs1047891]		0.33	0.2
p@chr16:68114139..68114174,+ [rs7188085]		0.32	0.23
p@chr6:32412666..32412686,+ [rs7194]		0.32	0.23
p@chr12:124433988..124434017,- [rs2178663]		0.32	0.23
	rs2178663:rs9863 D'=1.0; r ² =0.92. p@chr12:124421545..124421559,- [rs9863]	0.1	0.76
p7@ZDHHHC18 [rs12760759]		0.3	0.28
	rs12760759:rs17162313 D'=1.0; r ² =1.0. enhancer@chr1:27175784-27176273 [rs17162313] rs12760759:rs1883660 D'=1.0; r ² =0.59. enhancer@chr1:27191386-27191927 [rs1883660]	0.19	0.57
p@chr11:126226533..126226546,- [rs73632737]		0.06	0.84
chr15:63346713..63346752,+ [rs4468558]		0.3	0.28
	rs4468558:rs7174174 D'=0.94; r ² =0.83. chr15:63372403..63372411,- [rs7174174]	0.29	0.29
p14@FADS1 [rs174548, rs174549, rs174550]		0.19	0.57
p@chr16:56742451..56742454,- [rs4238789]		0.29	0.29
p4@NISCH [rs4687618]		0.27	0.36
	rs4687618:rs887515 D'=1.0; r ² =0.25. p33@NISCH [rs887515]	0.1	0.76
p3@TGOLN2 [rs10460587]		0.26	0.4
enhancer@chr6:30796195-30796565 [rs1264350]		0.25	0.4
p@chr19:54775040..54775082,- [rs419304]		0.25	0.4
p@chr17:76377571..76377602,- [rs4082919]		0.25	0.42
p@chr16:68299481..68299485,- [rs12596500]		0.24	0.42
	rs12596500:rs12447119 D'=1.0; r ² =0.87. p5@SLC7A6 [rs12447119] rs12596500:rs7184821 D'=1.0; r ² =0.5. p2@ESRP2 [rs7184821]	0.18	0.57
p@chr16:67581701..67581719,- [rs13334205]		0.24	0.42
chr10:5799591..5799598,+ [rs2275774]		0.24	0.42
p@chr19:45242420..45242462,+ [rs1531517]		0.24	0.42
p@chr4:103212519..103212530,- [rs233807]		0.24	0.43
enhancer@chr1:230289705-230290142 [rs7551742]		0.23	0.46
	rs7551742:rs4846905 D'=0.93; r ² =0.83. enhancer@chr1:230279464-230279771 [rs4846905]	0.18	0.57
p@chr17:37970009..37970013,- [rs9909593]		0.22	0.46
p@chr4:157683775..157683778,- [rs1425486]		0.2	0.55
p@chr11:45880009..45880015,+ [rs1401417]		0.2	0.57
p@chr10:46076251..46076291,- [rs7086046]		0.19	0.57
p@chr9:15298766..15298791,+ [rs675849]		0.18	0.57
p2@CU690121 [rs12225230]		0.18	0.57
p1@ENST00000438127 [rs3181]		0.18	0.57
	rs3181:rs10892074 D'=1.0; r ² =0.17. p@chr11:116980715..116980720,- [rs10892074] rs3181:rs7930264 D'=1.0; r ² =0.89. enhancer@chr11:116870646-116870996 [rs7930264]	0.14	0.64
enhancer@chr6:34663389-34663600 [rs3800457, rs3800458]		0.07	0.83
		0.17	0.57

	rs3800457:rs11757370 D'=1.0; r ² =0.3. enhancer@chr6:34760607-34760986 [rs11757370, rs11755420];rs3800457:rs11755420 D'=1.0; r ² =0.3. enhancer@chr6:34760607-34760986 [rs11757370, rs11755420];rs3800458:rs11757370 D'=1.0; r ² =0.89. enhancer@chr6:34760607-34760986 [rs11757370, rs11755420];rs3800458:rs11755420 D'=1.0; r ² =0.89. enhancer@chr6:34760607-34760986 [rs11757370, rs11755420]	0.15	0.62
	rs3800457:rs2764205 D'=1.0; r ² =0.96. p1@ENST00000408001 [rs2764205];rs3800458:rs2764205 D'=1.0; r ² =0.28. p1@ENST00000408001 [rs2764205]	0.07	0.83
p5@BAZ1B [rs1178979]		0.17	0.57
p@chr8:126447258..126447275,+ [rs2385114]		0.17	0.57
p@chr1:93627656..93627659,- [rs4847235]		0.17	0.57
enhancer@chr10:65274637-65275000 [rs10761779]		0.16	0.59
p2@APOM [rs3117583]		0.16	0.59
	rs3117583:rs3130618 D'=1.0; r ² =1.0. p6@GPANK1 [rs3130618]	0.13	0.68
	rs3117583:rs3115663 D'=1.0; r ² =1.0. p5@PRRC2A [rs3115663]	0.02	0.95
p@chr20:33356385..33356390,- [rs2295353]		0.15	0.62
p@chr11:117075245..117075293,- [rs508487]		0.14	0.66
p@chr11:46934513..46934519,+ [rs79920646, rs7120113]		0.13	0.68
p@chr6:139843931..139843972,+ [rs4896469]		0.13	0.7
p4@TMEM110 [rs11720228]		0.12	0.72
enhancer@chr15:58712788-58712944 [rs11854624]		0.1	0.76
	rs11854624:rs17821310 D'=1.0; r ² =0.86. p1@LIPC [rs17821310]	0.1	0.77
p@chr10:65121474..65121480,- [rs12355784]		0.09	0.78
enhancer@chr12:123387713-123388070 [rs10847980]		0.08	0.79
p6@PSORS1C1 [rs1265099]		0.08	0.81
	same SNP, different promoter: chr6:31105474..31105493,+ [rs1265099]	0.01	0.98
enhancer@chr6:127481688-127482073 [rs9491700]		0.06	0.84
enhancer@chr2:227172292-227172683 [rs2713556]		0.06	0.84
p7@RBM6 [rs6772095]		0.05	0.86
enhancer@chr1:39736190-39736575 [rs4660603]		0.05	0.86
p5@NOL3 [rs2233455]		0.03	0.93
p@chr17:37405559..37405561,- [rs2061342]		0.03	0.93
p@chr16:19871741..19871755,- [rs11865578]		0.03	0.93
p3@PACSINI [rs11758326]		0.0	1.0

Cell type	RRA p	FDR
Hepatocyte	4.3e-14	0
liver adult pool1	3.1e-10	0
mesenchymalstemcells(adiposederived)adipogenicinduction day08	0.00014	0
mesenchymalstemcells(adiposederived)adipogenicinduction day14	0.00018	0.0064
Adipocyte differentiation day08	0.0037	0.0064
Adipocyte subcutaneous	0.0062	0.0064
liver fetal pool1	0.0051	0.027
mesenchymalstemcells(adiposederived)adipogenicinduction undifferentiatedcontrol	0.028	0.042
Adipocyte differentiation day12	0.028	0.042
macLPS 00hr00min	0.023	0.042
macLPS 22hr	0.045	0.049