

Top promoter[SNPs in top promoter]	Linkage	Corrected coexpression score	FDR
p67@APOB [rs676210]		0.63	0.0
p@chr2:165603346..165603357,- [rs10178921]		0.56	0.01
p@chr2:27528919..27528940,+ [rs4665963]		0.53	0.01
	rs4665963:rs11684134 D'=0.8; r ² =0.3. p1@LOC100505624 [rs11684134]	0.42	0.02
p@chr7:73106975..73106980,+ [rs2293490]		0.52	0.01
p32@ACSL5 [rs11195943]		0.51	0.01
p@chr11:116691448..116691464,- [rs5110, rs675]		0.5	0.01
p@chr19:45411878..45411884,- [rs7412]		0.5	0.01
p1@ZSWIM1 [rs3746497]		0.5	0.01
p@chr7:17287199..17287204,+ [rs6968554]		0.49	0.01
p@chr6:31254912..31254928,- [rs9468920]		0.48	0.01
enhancer@chr7:72939749-72940060 [rs80189144]		0.48	0.01
p@chr12:124433988..124434017,- [rs2178663]		0.46	0.01
p1@BAG6 [rs3117582]		0.45	0.01
p@chr6:52617751..52617757,- [rs2180314]		0.44	0.01
p@chr19:7184803..7184814,- [rs17253937]		0.43	0.02
p1@ENST00000518619 [rs17149760]		0.42	0.02
p@chr20:44640866..44640875,- [rs3918256]		0.4	0.03
p@chr4:88057279..88057283,+ [rs1408]		0.4	0.03
	rs1408:rs3755980 D'=1.0; r ² =0.14. p@chr4:88042092..88042099,- [rs3755980]	0.18	0.45
p1@ENST00000448198, p1@ENST00000455328 [rs3916765]		0.38	0.05
enhancer@chr19:19483893-19484092 [rs59148799]		0.37	0.05
p1@NSUN5 [rs1880948]		0.37	0.05
chr6:30798448..30798455,- [rs1264347]		0.37	0.05
	rs1264347:rs886422 D'=1.0; r ² =1.0. p23@DDR1 [rs886422]	0.05	0.82
p2@LIPC [rs2070895]		0.37	0.05
p@chr19:45487536..45487571,+ [rs16979600]		0.36	0.06
	rs16979600:rs3760629 D'=1.0; r ² =0.05. p3@CLPTM1 [rs3760629]	0.13	0.61
p2@LY6G6C [rs805292]		0.36	0.06
p@chr4:87873088..87873092,+ [rs1992876]		0.35	0.07
p@chr8:19782798..19782817,- [rs28522139]		0.34	0.08
p@chr8:11396776..11396795,+ [rs2409784]		0.33	0.09
chr2:28203328..28203338,+ [rs898031]		0.33	0.09
	rs898031:rs2305929 D'=1.0; r ² =0.1. p@chr2:28114209..28114224,+ [rs2305929]	0.1	0.68
p1@HAX1 [rs11556341]		0.33	0.11
	same SNP, different promoter: p@chr1:154244875..154244901,- [rs11556341]	0.14	0.61
p@chr2:28634997..28635008,+ [rs12624279]		0.32	0.11
p1@ZNF646 [rs2303222]		0.32	0.11
p2@F2 [rs2070852]		0.3	0.15
	rs2070852:rs7932354 D'=1.0; r ² =1.0. p1@ARHGAP1 [rs7932354]	0.13	0.61
enhancer@chr15:58712788-58712944 [rs11854624]		0.3	0.16
	rs11854624:rs17821310 D'=1.0; r ² =0.86. p1@LIPC [rs17821310]	0.1	0.68
p1@ENST00000519197 [rs28597716]		0.29	0.18
enhancer@chr11:47109490-47109615 [rs4319472]		0.28	0.2
p1@NAT2 [rs4646246]		0.28	0.21
enhancer@chr16:56985400-56985562 [rs72786786, rs12448528]		0.27	0.23
p@chr6:33153425..33153432,- [rs9277934]		0.27	0.23
	rs9277934:rs2076311 D'=1.0; r ² =1.0. p@chr6:33145331..33145378,- [rs2076311]	0.07	0.79
enhancer@chr8:11032163-11032532 [rs6986032]		0.27	0.23
p@chr1:62928606..62928608,+ [rs998403]		0.27	0.23
p@chr1:63112277..63112278,+ [rs1168085]		0.26	0.23
p@chr6:32411003..32411021,- [rs13135391]		0.26	0.25
p11@SIDT2 [rs474339]		0.25	0.26
	rs474339:rs10892074 D'=1.0; r ² =0.25. p@chr11:116980715..116980720,- [rs10892074]	0.14	0.61
	rs474339:rs508487 D'=1.0; r ² =0.37. p@chr11:117075245..117075293,- [rs508487]	0.05	0.82
p@chr19:19640431..19640450,+ [rs4808967]		0.24	0.3
	rs4808967:rs1063966 D'=1.0; r ² =1.0. p@chr19:19616795..19616800,+ [rs1063966]	0.17	0.48
p@chr8:19830089..19830095,+ [rs1569209]		0.24	0.31
pi@TIMD4 [rs6882076]		0.23	0.31
enhancer@chr11:116722234-116722744 [rs689243]		0.23	0.32
p@chr11:47303410..47303414,+ [rs326217]		0.22	0.34
p@chr8:126442070..126442090,- [rs4871594]		0.21	0.37
p@chr2:27975692..27975750,+ [rs6547796]		0.21	0.37
p@chr1:63266602..63266609,- [rs11208033, rs10493328, rs4409690]		0.21	0.37
	rs11208033:rs12122434 D'=1.0; r ² =0.22. p@chr1:63261897..63261900,+ [rs12122434];rs10493328:rs12122434 D'=1.0; r ² =0.22. p@chr1:63261897..63261900,+ [rs12122434];rs4409690:rs12122434 D'=1.0; r ² =0.22. p@chr1:63261897..63261900,+ [rs12122434]	0.19	0.42
p3@FADS2 [rs968567]		0.2	0.42
chr6:31808499..31808514,+ [rs599707]		0.19	0.42
enhancer@chr10:65274637-65275000 [rs10761779]		0.19	0.45
chr6:160770176..160770186,- [rs474513, rs539298]		0.18	0.48
enhancer@chr6:32913033-32913520 [rs1480380]		0.16	0.52
enhancer@chr2:227020272-227020467 [rs13404263]		0.16	0.52
p1@HLA-DQB1 [rs3891175]		0.15	0.56
enhancer@chr3:52531917-52532418 [rs13326165]		0.15	0.59
p9@IFT172 [rs780104, rs79740025, rs6734392]		0.13	0.61
p@chr10:65121474..65121480,- [rs12355784]		0.13	0.61
enhancer@chr1:230279464-230279771 [rs4846905]		0.13	0.61

	rs4846905:rs7551742 D'=0.93; r ² =0.83. enhancer@chr1:230289705-230290142 [rs7551742]	0.08	0.77
enhancer@chr2:28319174-28319559 [rs7568903]		0.13	0.61
chr6:32148013..32148032,+ [rs3134943]		0.13	0.61
	rs3134943:rs3134931 D'=1.0; r ² =0.08. p@chr6:32190527..32190536,- [rs3134931]	0.07	0.79
	rs3134943:rs3131283 D'=1.0; r ² =0.92. p3@PRRT1 [rs3131283]	0.03	0.88
p3@CPEB4 [rs55946741]		0.11	0.67
p1@ENST00000451079 [rs12442297]		0.11	0.68
p@chr16:72108093..72108100,+ [rs2000999]		0.11	0.68
enhancer@chr8:19518773-19518959 [rs4921664]		0.09	0.74
	rs4921664:rs7001715 D'=1.0; r ² =0.66. p@chr8:19507328..19507329,- [rs7001715]	0.05	0.82
p@chr22:38572651..38572665,+ [rs133017]		0.08	0.77
p@chr16:81610493..81610521,+ [rs11642655]		0.07	0.79
enhancer@chr8:59311673-59312115 [rs1030431]		0.07	0.79
enhancer@chr15:44289112-44289501 [rs6493092]		0.07	0.79
enhancer@chr3:170695585-170695919 [rs7635100]		0.05	0.82
enhancer@chr11:61746281-61746413 [rs10792320]		0.05	0.83
p@chr2:28524175..28524215,+ [rs12621972]		0.04	0.86
enhancer@chr6:127481688-127482073 [rs9491700]		0.04	0.86
enhancer@chr2:227172292-227172683 [rs2713556]		0.02	0.91
enhancer@chr15:44431053-44431468 [rs2555389]		0.01	0.94
p8@MAPK10 [rs2869433]		0.0	1.0

Cell type	RRA p	FDR
small intestine adult pool1	2.4e-06	0
colon adult pool1	0.00099	0
small intestine fetal	0.0036	0
duodenum fetal donor1 tech	3.2e-05	0.015