

**Supplementary Table 1. Differentially expressed genes in different tissues from the SFX mice**

BONE			LIVER			KIDNEY		
Probe Set ID	Gene Symbol	Fold change	Probe Set ID	Gene Symbol	Fold change	Probe Set ID	Gene Symbol	Fold change
93683_at	Rag1	0.03	94379_at	Kif1b	0.01	92898_at	Cyp7b1	0.02
99339_r_at	Kcnd2	0.04	94395_at	Fubp1	0.02	101887_at	Agt	0.03
101028_i_at	Actc1	0.05	97965_at	Pla2g6	0.02	92858_at	Slpi	0.03
92192_s_at	Pcsk5	0.08	94378_at	Rgs16	0.02	161968_f_at	Ccr5	0.04
99507_at	Ucp1	0.08	94383_at	Tfpi2	0.02	160799_at	160799_at	0.04
92536_at	Adrb3	0.11	95660_at	Ethe1	0.03	101020_at	Ctsc	0.05
100336_s_at	Bglap-rs1 /// Bglap1 /// Bglap2	0.13	94338_g_a t	Gas2	0.04	104566_at	Asl	0.05
93957_at	Vpreb3	0.13	92820_at	Usp2	0.05	101160_at	Cxcl2	0.06
96766_s_at	Tyro3	0.13	103646_at	Crat	0.05	103562_f_at	1300007C 21Rik /// LOC43376 2 /// LOC54608 3	0.08
161815_f_at	Mup1 /// Mup2 /// Mup3	0.14	100998_at	H2-Ab1	0.05	160975_at	Rsnl2	0.08
102410_at	Hs3st1	0.15	103955_at	Cryl1	0.07	102712_at	Saa3	0.08
160201_r_at	Slc33a1	0.15	160388_at	Sc4mol	0.08	92853_at	Hspb1	0.09
99428_at	Igll1	0.18	104072_at	Apcs	0.08	99420_at	Igh-V7183	0.09
99637_at	Col15a1	0.19	96783_at	Mucdhl	0.09	102925_at	Dusp9	0.09
103987_at	Mog	0.19	100522_s_ at	Wbp5	0.09	97335_at	Timd2	0.09
94900_at	Sftpc	0.19	103887_at	S100a9	0.09	97533_at	Fcgrt	0.11
95513_at	Statip1	0.19	104263_at	Zmym6	0.10	101891_at	Hsd17b2	0.12
161968_f_at	Ccr5	0.20	96228_at	Cyp11a1	0.11	162078_at	Sdh1	0.12
101566_f_at	Mup1 /// Mup2	0.20	100311_f_ at	Ear1	0.12	92865_at	Dnase1	0.12
101910_f_at	Mup3	0.20	94818_at	Ogt	0.12	102727_at	Bdnf	0.12
98960_s_at	B3galt3	0.22	95694_at	Top1	0.12	100329_at	Serpina1c	0.14
101878_at	Cd72	0.22	104584_f_ at	Crb3	0.13	104388_at	Ccl9	0.15
95974_at	Gbp1	0.22	97682_r_a t	Gstm3	0.13	96867_at	Azgp1	0.17
92379_f_at	Ptprz1	0.22	99642_i_at	Cpe	0.14	99836_at	Cyp27b1	0.17
103401_at	Acads	0.23	160417_at	Kif5b	0.14	101872_at	Gsta2	0.18
92227_s_at	Ctnna2	0.23	160306_at	Thrsp	0.15	92849_at	Ccl6	0.18
160841_at	Dbp	0.23	100468_g_ at	Lyl1	0.16	97752_at	E130013N 09Rik	0.20
98989_at	Dhcr7	0.23	103914_at	Pcyt2	0.16	96020_at	C1qb	0.20
103665_at	Elovl6	0.23	92531_at	Tloc1	0.18	93096_at	Fgg	0.21
93321_at	Ifi203	0.23	100368_at	Casp9	0.19	92315_at	Sifn4	0.21
102405_at	Mag	0.23	96803_at	Gbe1	0.19	103882_at	Cpn1	0.21
93350_f_at	Zfp422	0.23	96048_at	Hrsp12	0.19	104263_at	Zmym6	0.22
160236_at	9630044O 09Rik	0.25	94764_at	Itgal	0.19	94426_at	Thumpd1	0.22
103838_at	Sypl2	0.25	93869_s_a t	Bcl2a1a /// Bcl2a1c /// Bcl2a1d	0.20	97480_f_at	Dnajb3	0.22
101503_at	Dpysl3	0.27	95471_at	Cdkn1c	0.22	102748_at	102748_at	0.22
94205_at	Epx	0.27	103891_i_ at	Eli2	0.22	95348_at	Cxcl1	0.23
101408_at	Gamt	0.27	92222_f_at	H2-Q1	0.22	94477_at	LOC43449 8	0.23
103787_at	Kcna1	0.27	102796_at	Npm3	0.22	102192_r_at	Acsm3	0.23
93387_at	Kera	0.27	102233_at	4833442J19Rik	0.23	104258_at	Acyp2	0.23
103223_at	Prkce	0.27	104424_at	C9	0.23	101027_s_at	Pttg1	0.24

97235_f_at	Apobec2	0.29	98507_at	Nr1d1	0.23	94163_at	Atp4a	0.24
103422_at	Cd1d1	0.29	99032_at	Rasd1	0.23	160561_at	Mdk	0.24
102749_at	Cox7a1	0.29	102783_at	2310009E04Rik /// LOC435793	0.25	93985_at	Tiparp	0.24
103961_s_at	Dntt	0.29	95725_at	Acy3	0.25	96792_at	Apob	0.25
102373_at	Enpep	0.29	95001_at	Akap8	0.25	100583_at	Igh-VJ558 /// LOC23844 7 /// LOC54490 3 /// LOC54490 7	0.26
99571_at	MGC29978	0.29	96083_s_at	Hnrpdl	0.25	160901_at	Fos	0.26
100929_at	Mtmr9	0.29	97926_s_at	Pparg	0.25	101572_f_at	Serpina1a	0.26
100017_at	Mybph	0.29	160725_at	4930432O21Rik	0.27	160074_at	Ddc	0.27
97341_at	Praf2	0.29	95348_at	Cxcl1	0.27	101173_at	Pctp	0.27
103744_at	Sh3bgrl2	0.29	92509_at	F12	0.27	104726_at	1700013L2 3Rik	0.27
101539_f_at	Ces3	0.31	104231_at	Hnrph3	0.27	100972_s_at	Ccl27	0.27
98967_at	Fabp7	0.31	92202_g_at	Zbtb16	0.27	95585_at	Proc	0.27
98575_at	Fasn	0.31	100880_at	9830147J24Rik	0.29	96796_f_at	Ugt2b5	0.28
92737_at	Irf4	0.31	103875_at	Ngrn	0.29	100880_at	9830147J2 4Rik	0.28
103231_at	Rhoh	0.31	102791_at	Psmb8	0.29	100050_at	Id1	0.29
104564_at	Scg3	0.31	101043_f_at	Try4 /// 1810049H19Rik	0.29	92590_at	Hmgcs2	0.29
98339_at	Syt11	0.31	93924_f_at	Tuba7	0.29	95350_at	Ttr	0.29
98872_at	Ugt8a	0.31	96156_at	1110008H02Rik	0.31	104374_at	Serpina3n	0.30
93430_at	Cmkor1	0.33	102870_at	5930418K15Rik	0.31	160564_at	Lcn2	0.30
160522_at	D0H4S114	0.33	94232_at	Ccnd1	0.31	104405_at	4633402D 15Rik	0.30
93775_at	D12Erttd64 7e	0.33	98543_at	Ctss	0.31	161284_r_at	Txnrd3	0.30
97317_at	Enpp2	0.33	101862_at	Cyp2b9	0.31	94274_at	Ube2s	0.30
94214_at	Fabp3	0.33	93783_at	Eia1	0.31	92614_at	Id3	0.31
101090_at	Fbn1	0.33	101894_s_at	Fts	0.31	100078_at	Apoa4	0.31
103061_at	Gad1	0.33	102313_at	Gch1	0.31	100943_at	Slc1a4	0.32
93584_at	Igh-6 /// MGC6084 3	0.33	96269_at	Idi1	0.31	161722_f_at	Gstm5	0.32
94334_f_at	Ina	0.33	99926_at	Ubtf	0.31	104398_at	Tspan33	0.32
93039_at	MGI:18892 05	0.33	160493_at	Cd63	0.33	94288_at	Hist1h1c	0.32
100759_at	Mrc2	0.33	95392_at	Gcnt2	0.33	100141_at	Fau	0.32
94958_at	1110013L0 7Rik	0.35	96938_at	Keg1	0.33	93039_at	MGI:18892 05	0.32
95375_r_at	Cilp2	0.35	99855_at	Map3k5	0.33	96026_at	Ahcy	0.33
92836_at	Eln	0.35	101486_at	Psmb10	0.33	98035_g_at	H2-DMb1	0.33
103590_at	Ggcx	0.35	103448_at	S100a8	0.33	160605_s_at	Usp38	0.33
160917_r_at	Mageh1	0.35	92583_at	Serpina3k	0.33	103918_at	Slc15a2	0.33
102828_at	Map2k6	0.35	104637_at	104637_at	0.35	100397_at	Tyrobp	0.33
102431_at	Mapt	0.35	161511_f_at	161511_f_at	0.35	96868_at	Fgb	0.33
98547_at	Mrps12	0.35	100321_f_at	2210418O10Rik	0.35	104606_at	Cd52	0.34
160487_at	Myl4	0.35	100300_at	Cybb	0.35	95283_at	Abcc2	0.34
160481_at	Pck1	0.35	94177_at	Hsd17b7	0.35	101307_at	Cyp4a12	0.34
96313_at	Rasgrf1	0.35	104658_at	Lifr	0.35	93740_at	Ybx1	0.34

96205_at	Sh3bgr	0.35	101082_at	Mod1	0.35	98859_at	Acp5	0.34
100455_at	Snap91	0.35	103471_at	Tbc1d15	0.35	96068_at	Immp1l	0.35
161055_r_at	6330409N04Rik	0.38	98129_at	Tmsb10	0.35	103693_at	Tirap	0.35
103556_at	Angptl2	0.38	161270_i_at	Wnk1	0.35	94318_at	ApoH	0.36
102704_at	Aqp4	0.38	101578_f_at	Actb	0.38	93114_at	Atp5j2	0.36
103281_at	Cd2ap	0.38	102781_at	Ccnl2	0.38	103671_at	Htatip2	0.36
99994_at	Cidea	0.38	99672_at	Cicn4-2	0.38	161901_r_at	Bmp2	0.36
93517_at	Col6a2	0.38	101020_at	Ctsc	0.38	93889_f_at	Hist1h2ba	0.37
101110_at	Col6a3	0.38	96375_at	D9ErtD306e	0.38	94916_at	Cyp51	0.37
160711_at	Decr1	0.38	103597_at	Dct	0.38	94203_at	A630025C20Rik	0.37
101587_at	Ephx1	0.38	103842_at	Ddx3y	0.38	97420_at	Lrg1	0.37
98822_at	G1p2	0.38	98531_g_at	Gas5	0.38	98589_at	Adfp	0.37
99816_at	Hspa2	0.38	98002_at	Irf8	0.38	93589_at	Entpd4	0.37
93511_at	Itn2a	0.38	100611_at	Lyzs	0.38	161835_at	S100g	0.37
97347_at	Ltbp4	0.38	161815_f_at	Mup1 /// Mup2 /// Mup3	0.38	99071_at	Mpeg1	0.37
96065_at	Lxn	0.38	101473_at	Nnmt	0.38	97531_at	G0s2	0.37
97511_at	Mgll	0.38	103944_at	Rad51l1	0.38	95636_at	0610010K14Rik	0.38
101635_f_at	Mup5	0.38	94147_at	Serpine1	0.38	94995_at	A030007L17Rik	0.38
160413_at	Nsg2	0.38	92540_f_at	Srm /// LOC547378	0.38	95586_at	P2rx4	0.38
97834_g_at	Pfcp	0.38	102873_at	Tap2	0.38	100977_at	Pdk1	0.39
92599_at	Pgam2	0.38	92374_at	Adora1	0.41	94285_at	H2-Eb1	0.39
101881_g_at	Col18a1	0.41	98055_at	Bicap	0.41	104177_at	Rsad2	0.39
94916_at	Cyp51	0.41	93458_at	C330003B14Rik	0.41	99608_at	Prdx2	0.39
95284_at	Fcrlm1	0.41	97949_at	Fgl2	0.41	160343_at	Srp19	0.40
94194_s_at	Hcn2	0.41	104750_at	Ifi47	0.41	97950_at	Xdh	0.40
94325_at	Hmgcs1	0.41	160933_at	Igtp	0.41	95686_at	Rab14	0.40
103214_at	Hspb2	0.41	103963_f_at	ligp1	0.41	99656_at	D8ErtD812e	0.40
101682_f_at	Mup4	0.41	160617_at	Klf13	0.41	95569_at	Guca2b	0.41
101059_at	Ndn	0.41	160829_at	Phlda1	0.41	100475_at	Trim25	0.41
101650_at	Pcdha4 /// Pcdha6 /// Pcdha7 /// Pcdha5 /// Pcdha11 /// Pcdha10 /// Pcdha1 /// Pcdha9 /// Pcdha3 /// Pcdha12 /// Pcdha2 /// Pcdha8 /// Pcdhac1 /// Pcdhac2	0.41	97395_at	Prp19	0.41	104172_at	Folr2	0.41
95040_at	Pdcd6ip	0.41	93485_at	Ptprd	0.41	96502_at	Phex	0.41
102769_f_at	Sc5d	0.41	94780_at	Zbtb20	0.41	97418_at	Bhmt2	0.42
92981_at	Scg2	0.41	101959_r_at	101959_r_at	0.44	93434_at	Sult5a1	0.42
161297_f_at	Vpreb1	0.41	104513_at	2410004N09Rik	0.44	103085_at	Hebp1	0.42
103499_at	Vwf	0.41	104475_at	AA408278	0.44	160088_at	Fmo5	0.42
161270_i_at	Wnk1	0.41	99671_at	Adn	0.44	98569_at	Slc25a25	0.42
104445_at	4631408O	0.44	101947_at	Akap8l	0.44	161437_f_at	6530401N	0.43

	11Rik						04Rik	
96090_g_at	4931406C07Rik	0.44	102826_at	Akr1b7	0.44	93145_at	Gatad2a	0.43
92526_f_at	Btbd14a	0.44	101913_at	Cln5	0.44	94709_at	Gcm2	0.43
93454_at	C1qr1	0.44	100059_at	Cyba	0.44	103732_at	Pib5pa	0.43
102426_at	Casq1	0.44	99941_at	Es31	0.44	104631_g_at	BC021611	0.44
162297_s_at	Cav3	0.44	94125_at	Eva1	0.44	96151_at	Mocos	0.44
93174_at	Cd276	0.44	97889_at	Fabp2	0.44	103644_at	Dpep1	0.44
100044_at	Cldn11	0.44	94325_at	Hmgcs1	0.44	161294_f_at	Clu	0.44
103616_at	Col11a2	0.44	92724_at	Hnrpa1	0.44	104086_at	Dmgdh	0.45
102389_s_at	Gap43	0.44	103370_at	Lin7c	0.44	99842_at	Col19a1	0.45
103202_at	Gbp4	0.44	94461_at	Pbef1	0.44	93372_at	Anp32a	0.45
98984_f_at	Gpd2	0.44	94209_g_at	Pdia6	0.44	98562_at	C1qa	0.45
92506_at	Hapln1	0.44	102053_at	Plscr2	0.44	92970_at	Hoxa10	0.45
100566_at	Igfbp5	0.44	98511_at	Raly	0.44	162432_f_at	Mogat2	0.45
93353_at	Lum	0.44	101465_at	Stat1	0.44	94006_at	Azi2	0.46
104567_at	Mrpl46	0.44	102906_at	Tgtp	0.44	102852_at	Cdh2	0.46
92801_at	Plp1	0.44	97473_at	Tspan4	0.44	99378_f_at	H2-Q1 /// LOC436493	0.46
93915_at	Pou2af1	0.44	99126_at	Xist	0.44	97216_at	Pzp	0.46
96591_at	Reln	0.44	93661_at	Zap70	0.44	100912_at	Dph5	0.46
94545_at	Rtn1	0.44	102724_at	102724_at	0.47	102104_f_at	Ms4a6c	0.47
101467_at	S100b	0.44	103443_at	103443_at	0.47	101384_at	Degs2	0.47
94291_at	Scgb1a1	0.44	160119_at	5730592L21Rik	0.47	161839_f_at	Rasl2-9	0.47
160869_at	Sirt3	0.44	97524_f_at	Amy2	0.47	104014_at	Hfe	0.47
101420_at	Slc32a1	0.44	100078_at	Apoa4	0.47	95364_at	Gna14	0.47
93159_at	Syt2	0.44	93797_g_at	Atp1a1	0.47	94322_at	Sqle	0.47
102906_at	Tgtp	0.44	92408_at	C130065N10Rik	0.47	94380_at	Ide	0.47
99057_at	Thy1	0.44	93445_at	Cd5l	0.47	161997_f_at	161997_f_at	0.48
160472_r_at	Tmeff1	0.44	98539_at	Cops2	0.47	94424_at	AU022220	0.48
98474_r_at	Tnfaip6	0.44	103518_at	Ctla2b	0.47	160407_at	Actr1a	0.48
104045_at	Tspyl4	0.44	103460_at	Ddit4	0.47	93606_s_at	Igsf4a	0.48
101419_at	Tubb4	0.44	100914_at	Drd3	0.47	103016_s_at	Cd68	0.48
92971_at	9130213B05Rik	0.47	98575_at	Fasn	0.47	95095_at	Flot1	0.48
161467_f_at	Atp1b1	0.47	99098_at	Fdps	0.47	161357_r_at	Gstm2	0.48
93664_at	Atp1b2	0.47	104597_at	Gbp2	0.47	162198_f_at	162198_f_at	0.49
92742_at	Ccl11	0.47	103202_at	Gbp4	0.47	160839_at	Slc2a5	0.49
97773_at	Cd34	0.47	104636_at	Gstm6	0.47	92830_s_at	Zfp36	0.49
104733_at	Cetn2	0.47	103939_at	Hibch	0.47	161367_f_at	Hps1	0.50
101198_at	Cplx1	0.47	97987_at	Igfals	0.47	101878_at	Cd72	0.50
93051_at	Ephx2	0.47	96123_at	Lbp	0.47	102851_s_at	Ptpn6	0.50
96913_at	Hadhb	0.47	95706_at	Lgals3	0.47	101445_at	Dnmt1	2.0
95485_at	Hadhsc	0.47	93753_at	Litaf	0.47	160582_at	Mybpc3	2.0
96095_i_at	Hsd12	0.47	96041_at	LOC433432	0.47	92896_s_at	Sim2 /// LOC547289 /// LOC547335	2.0
96594_at	Hspa4	0.47	101753_s_at	Lyzs /// Lzp-s	0.47	96772_at	Prim1	2.0
99937_at	Meox2	0.47	101468_at	Pfc	0.47	101034_at	Grb2	2.0
102061_at	Mlf1	0.47	101923_at	Pla2g7	0.47	102995_s_at	Gzma	2.0
101082_at	Mod1	0.47	101027_s_at	Pttg1	0.47	92484_at	Hivep2	2.0
94509_at	Ncbp2	0.47	92659_at	Rapgef4	0.47	102715_at	Nr2f1	2.0

93563_s_at	Nid2	0.47	92770_at	S100a6	0.47	103032_at	Tpst1	2.0
160388_at	Sc4mol	0.47	93502_r_at	Sucla2	0.47	98454_at	Palm	2.0
94057_g_at	Scd1	0.47	99854_at	Sult3a1	0.47	160456_at	Ppih	2.0
94201_at	Scn1a	0.47	94426_at	Thumpd1	0.47	104475_at	AA408278	2.0
160373_i_at	Sdpr	0.47	160462_f_at	Tubb3	0.47	103212_at	Cdca7l	2.0
161104_at	Sept10	0.47	92715_at	Ubd	0.47	93664_at	Atp1b2	2.0
97430_at	Slc37a4	0.47	92558_at	Vcam1	0.47	96354_at	Mbnl1	2.1
100047_at	Snap25	0.47	104445_at	4631408O11Rik	0.50	102794_at	Cxcr4	2.1
97983_s_at	Stxbp1	0.47	95028_r_at	95028_r_at	0.50	100044_at	Cldn11	2.1
160678_at	Tspan12	0.47	101006_at	Acat2	0.50	96158_at	BC017133	2.1
92892_at	Vmp	0.47	101897_g_at	Cd1d1 /// Cd1d2	0.50	100772_g_at	Blnk	2.1
104299_at	Zdhhc14	0.47	160894_at	Cebpd	0.50	97413_at	1600029D21Rik	2.1
96124_at	2310001H13Rik	0.50	101436_at	Cxcl9	0.50	94140_at	Msr1	2.1
100902_at	2610019F03Rik	0.50	98320_at	Cyp26a1	0.50	97864_at	2510049I19Rik	2.1
160166_r_at	2810409H07Rik	0.50	94916_at	Cyp51	0.50	97536_at	Wdtdc1	2.1
94778_at	Aldh1a7	0.50	161345_f_at	Cyp7b1	0.50	100307_at	Nfix	2.1
100931_at	Arsa	0.50	99422_at	Fau	0.50	104387_at	Slc23a1	2.1
92359_at	Blk	0.50	101800_at	Fpr-rs2	0.50	99444_at	Ramp2	2.1
100772_g_at	Blnk	0.50	97458_at	Gnb1	0.50	102721_at	AI324046	2.1
92989_f_at	Cadps	0.50	92866_at	H2-Aa	0.50	92468_at	Ankrd49	2.1
101040_at	Capn2	0.50	103534_at	Hbb-b2	0.50	103233_at	Hipk3	2.1
103618_at	Ckmt2	0.50	93483_at	Hck	0.50	102152_f_at	Igh-VS107	2.1
92936_at	Cntn1	0.50	93833_s_at	Hist1h2bc	0.50	161920_r_at	Smarcad1	2.1
98331_at	Col3a1	0.50	92689_at	Il18bp	0.50	103927_at	C80731	2.1
97204_s_at	Dnajc15	0.50	160564_at	Lcn2	0.50	104211_at	Itga3	2.1
99045_at	Eno2	0.50	160832_at	Ldlr	0.50	102331_at	St5	2.1
92927_at	Etv1	0.50	101566_f_at	Mup1 /// Mup2	0.50	96802_at	Pdcd7	2.1
102967_at	Gdap1	0.50	101909_f_at	Mup3	0.50	95284_at	Fcrlm1	2.1
104412_at	Gnai1	0.50	101635_f_at	Mup5	0.50	104186_at	Rnf184	2.1
101620_at	Gp1ba	0.50	100977_at	Pdk1	0.50	94829_at	Tmem70	2.1
94811_s_at	Gtf2h1 /// Ndn	0.50	102649_s_at	Raet1a /// Raet1b /// Raet1c /// Raet1d /// Raet1e	0.50	103438_at	Dio2	2.1
160199_at	Hnrpc /// LOC329893	0.50	96056_at	Rhoc	0.50	161060_i_at	Ddx51	2.1
101441_i_at	Itpr2	0.50	100333_at	Saa2	0.50	161119_at	Epha5	2.1
160971_at	Kazald1	0.50	92213_at	Star	0.50	160272_at	160272_at	2.2
93565_at	Kns2	0.50	103957_at	Tfrc	0.50	101774_at	Col4a4	2.2
100421_at	Krt2-4	0.50	97253_at	Tpd52l2	0.50	94024_at	Ris2	2.2
104658_at	Lifr	0.50	94835_f_at	Tubb2	0.50	102001_at	Rrm2	2.2
102037_at	Mapre2	0.50	96215_f_at	96215_f_at	2.0	101130_at	Col1a2	2.2
96865_at	Marcks	0.50	102200_at	Aqp8	2.0	161000_i_at	Nusap1	2.2
97990_at	Myh11	0.50	94689_at	C79248	2.0	160424_f_at	Fdps /// LOC544723	2.2
93514_at	Myl3	0.50	101039_at	Col4a2	2.0	101426_at	Cerk	2.2
102819_at	Nap1l2	0.50	102847_s_at	Cyp2a4 ///	2.0	103459_at	Slc39a6	2.2

			at	Cyp2a5				
99633_at	Ncdn	0.50	99463_at	Cyp3a13	2.0	96961_at	Rnf110	2.2
160859_s_at	Nfib	0.50	98572_at	Dnajb11	2.0	101442_f_at	Itpr2	2.2
92773_at	Nrp1	0.50	103665_at	Elovl6	2.0	94820_r_at	Ccni	2.2
95890_r_at	Pax5	0.50	103507_at	Emr1	2.0	99453_at	Pde1a	2.2
93349_at	Pcolce	0.50	102921_s_at	Fas	2.0	101458_at	Wee1	2.2
101042_f_at	Pep4	0.50	96336_at	Gatm	2.0	100489_at	Pde7a	2.2
97445_at	Ppid	0.50	101054_at	li	2.0	97415_at	Rab3d	2.2
95300_at	Prg3	0.50	92301_at	lkbke	2.0	100472_at	Enah	2.2
94238_at	Prss23	0.50	97409_at	Irgm	2.0	101451_at	Peg3	2.2
100505_at	Rit2	0.50	99602_at	Klf10	2.0	95610_at	Cdc5l	2.2
94076_i_at	Rpn2	0.50	95135_at	Mid1ip1	2.0	94064_at	Zfp91	2.2
160975_at	Rsnl2	0.50	95784_at	Pira1	2.0	102883_at	Rpap1	2.2
102384_at	Smarca2	0.50	99592_f_at	Rdh11	2.0	93959_at	2010107H 07Rik	2.2
98463_at	Smarca4	0.50	98600_at	S100a11	2.0	102676_at	Vhlh	2.2
104280_at	Sncg	0.50	102768_i_at	Sc5d	2.0	97539_at	Hrmt1l3	2.2
102378_at	Sspn	0.50	96302_at	Sfrs7	2.0	92429_at	Mc2r	2.2
100477_at	Tmem45a	0.50	99094_at	Slc12a1	2.0	94483_at	Csnk2a2	2.2
94835_f_at	Tubb2	0.50	98569_at	Slc25a25	2.0	160613_at	Tinagl	2.2
161612_f_at	Tubb3 /// LOC54588 7	0.50	93084_at	Slc25a4	2.0	93204_r_at	Foxn2	2.2
93652_i_at	Vamp1	0.50	95733_at	Slc29a1	2.0	97990_at	Myh11	2.2
92995_at	Vsnl1	0.50	94322_at	Sqle	2.0	92768_s_at	Alas2	2.2
102091_f_at	102091_f_at	2.0	98596_s_at	St3gal5	2.0	99809_at	Pax2	2.2
93592_at	Apod	2.0	93434_at	Sult5a1	2.0	96513_at	Al451896	2.3
98869_g_at	Bcl2	2.0	101548_at	Synj2bp	2.0	96132_at	Apcdd1	2.3
93397_at	Ccr2	2.0	100154_at	Tapbp	2.0	92507_at	Utrn	2.3
160894_at	Cebpd	2.0	98937_at	Tbrg1	2.0	101180_at	Atm	2.3
94420_f_at	Cry1	2.0	95383_at	Tm7sf2	2.0	102144_f_at	102144_f_at	2.3
99979_at	Cyp1b1	2.0	160207_at	Acly	2.1	95393_at	Btbd3	2.3
160379_at	Epb4.1	2.0	97523_i_at	Amy2 /// LOC545562	2.1	102123_at	Lip1	2.3
98531_g_at	Gas5	2.0	102348_at	BC003993 /// LOC432468 /// LOC432512 /// LOC432683 /// LOC432823 /// LOC432857 /// LOC432890 /// LOC432924 /// LOC432932 /// LOC433038 /// LOC433041 /// LOC433043 /// LOC433154 /// LOC433373 /// LOC433596 /// LOC433893 /// LOC433915 /// LOC434071 /// LOC434166 /// LOC434286 /// LOC434287 /// LOC434383 /// LOC434421 /// LOC434430 /// LOC434450 /// LOC434503 /// LOC434589 ///	2.1	99663_g_at	Pcnt1	2.3

				LOC434600 /// LOC434620 /// LOC434657 /// LOC434801 /// LOC434810 /// LOC434815 /// LOC434829 /// LOC436444 /// LOC544751 /// LOC544841 /// LOC545083 /// LOC545301 /// LOC545308 /// LOC545349 /// LOC545603 /// LOC545657 /// LOC545659 /// LOC545842 /// LOC545895 /// LOC545918 /// LOC545995 /// LOC546031 /// LOC546047 /// LOC546177 /// LOC546345 /// LOC547373				
99810_at	Gpx2	2.0	96020_at	C1qb	2.1	99994_at	Cidea	2.3
96092_at	Hp	2.0	98137_at	Car5a	2.1	103624_at	2900073H 19Rik	2.3
97763_at	Ncf1	2.0	102736_at	Ccl2	2.1	160754_at	Pygm	2.3
101938_at	Pabpc2	2.0	95661_at	Cd9	2.1	97352_f_at	Cox6b2	2.3
95784_at	Pira1	2.0	92835_at	Cml1	2.1	104503_at	Pkn2	2.3
102838_at	Sell	2.0	161081_at	Cpeb2	2.1	101159_at	Mitf	2.3
162392_r_at	Ttc10	2.0	160421_r_at	Ctrb1	2.1	92354_at	Maf	2.3
98761_i_at	Zfp97 /// BC018101	2.0	101537_at	Es1	2.1	93319_at	Rasa3	2.3
103024_at	Adam8	2.1	162457_f_at	Hba-a1	2.1	93356_at	Mcm7	2.3
100896_at	Cacng1	2.1	101682_f_at	Mup4	2.1	96085_at	Gsta4	2.3
92849_at	Ccl6	2.1	100307_at	Nfix	2.1	95360_at	Zcchc6	2.3
99413_at	Ccr1	2.1	101471_at	Pklr	2.1	103514_at	Tnfrsf21	2.3
162371_r_at	Ephb6	2.1	103752_r_at	Strn	2.1	99644_at	Zfp289	2.3
96553_at	Gpr65	2.1	102425_at	Tle1	2.1	99641_at	D2Bwg089 1e	2.4
160101_at	Hmox1	2.1	95024_at	Usp18	2.1	160865_at	Vldlr	2.4
94171_at	Itgb2l	2.1	103063_at	Zfp62	2.1	92664_at	2500002G 23Rik	2.4
98003_at	Lilrb3	2.1	92233_at	1810007M14Ri k	2.3	103957_at	Tfrc	2.4
102940_at	Ltb	2.1	102920_at	9130422G05Ri k	2.3	160139_at	Hspb8	2.4
103662_at	Ncf4	2.1	103982_s_at	Adh4	2.3	94125_at	Eva1	2.4
162468_at	Rhoc	2.1	160495_at	Ahr	2.3	93463_at	Usp19	2.4
95731_at	Sesn1	2.1	93858_at	Cxcl10	2.3	95022_at	Akap12	2.4
100397_at	Tyrobp	2.1	103617_at	Daf1	2.3	101110_at	Col6a3	2.4
100920_at	100920_at	2.3	98822_at	G1p2	2.3	160369_at	Dhcr24	2.4
161156_r_at	161156_r_at	2.3	104588_at	Hamp1	2.3	104290_at	Casp8ap2	2.4
94027_at	94027_at	2.3	104285_at	Hmgcr	2.3	161040_at	Fzd1	2.4
103365_s_at	Arhgap9	2.3	98111_at	Hsp110	2.3	102893_at	Pou2f1	2.4
162366_r_at	C2	2.3	103486_at	Il1b	2.3	93930_at	Lasp1	2.4
98098_at	Car1	2.3	94929_at	Ptpn1	2.3	98346_at	Lrrc54	2.5

100914_at	Drd3	2.3	97844_at	Rgs2	2.3	94893_at	2610301B 20Rik	2.5
101800_at	Fpr-rs2	2.3	102712_at	Saa3	2.3	97795_at	Calcl	2.5
102763_at	MGI:19297 09	2.3	104451_at	Slc11a2	2.3	160678_at	Tspan12	2.5
94769_at	Mmp8	2.3	97722_at	Ssr1	2.3	93527_at	Klf9	2.5
93573_at	Mt1	2.3	103035_at	Tap1	2.3	99390_at	Wnt5a	2.5
101561_at	Mt2	2.3	98761_i_at	Zfp97 /// BC018101	2.3	95772_r_at	Fzd4	2.5
100328_s_at	Pira1 /// Pira2 /// Pira3 /// Pira4 /// Pira6 /// Lilrb3 /// LOC54602 7	2.3	103748_at	4933407C03Rik	2.5	92489_at	Gimap1	2.5
161257_r_at	Snx17	2.3	100569_at	Anxa2	2.5	95955_at	Ppp2r5e	2.5
92559_at	Vcam1	2.3	95466_at	Cotl1	2.5	96801_at	Ak1	2.5
103269_f_at	Zfp125	2.3	102820_at	Cyp2b13	2.5	102800_at	Foxc2	2.5
101912_at	1100001G 20Rik	2.5	100069_at	Cyp2f2	2.5	104300_at	Iqgap1	2.5
103545_at	2610019E 17Rik	2.5	102651_at	Gck	2.5	96832_at	Slc39a1	2.5
104089_at	2810026P 18Rik	2.5	99107_at	Ghr	2.5	161815_f_at	Mup1 /// Mup2 /// Mup3	2.5
95184_f_at	95184_f_at	2.5	97541_f_at	H2-D1	2.5	99917_at	Ezh2	2.5
104363_at	Cdsn	2.5	96752_at	Icam1	2.5	101521_at	Birc5	2.5
92762_at	Clec4a2	2.5	97444_at	Ifi30	2.5	97723_at	Cbx2	2.5
161779_r_at	Cryl1	2.5	102156_f_ at	Igk-C /// Igk-V21 /// Igk-V28 /// LOC243469 /// Igk-V8 /// LOC545854	2.5	93886_at	Tollip	2.6
103460_at	Ddit4	2.5	102401_at	Irf1	2.5	96587_at	Arf3	2.6
161357_r_at	Gstm2	2.5	93868_at	Nsdhl	2.5	161760_s_at	Rbbp6	2.6
92471_i_at	Sifn2	2.5	104343_f_ at	Pla2g12a	2.5	93414_at	Abcb1b	2.6
160865_at	Vldlr	2.5	92873_f_at	Prss2	2.5	93033_at	Ube2e3	2.6
162265_r_at	Zfp393	2.5	101306_f_ at	101306_f_at	2.6	96220_at	Lig3	2.6
94689_at	C79248	2.6	160799_at	160799_at	2.6	96183_at	Foxp1	2.6
162287_r_at	Clca3	2.6	99403_at	Art2a	2.6	102062_at	Smarcc1	2.6
104217_at	Gdpd3	2.6	94939_at	Cd53	2.6	160475_at	Yipf4	2.6
93015_at	Gsta3	2.6	96298_f_at	Dncl1	2.6	97722_at	Ssr1	2.6
92740_at	Igh-6	2.6	98892_at	Lpin1	2.6	93354_at	Apoc1	2.6
100521_at	Ovgp1	2.6	103571_at	Lst1	2.6	97994_at	Tcf7	2.6
92356_at	Ptpn22	2.6	102104_f_ at	Ms4a6c	2.6	160903_at	Apbb2	2.6
93624_at	Slc10a6	2.6	102371_at	Nr4a1	2.6	101305_at	Pou3f3	2.6
95303_at	95303_at	2.8	94788_f_at	Tubb5	2.6	92501_s_at	Plagl1	2.6
98577_f_at	98577_f_at	2.8	103429_i_ at	AL024210	2.8	98890_at	1700012G 19Rik	2.6
99387_at	Fpr1	2.8	93372_at	Anp32a	2.8	100410_at	C330027G 06Rik	2.6
94477_at	LOC43449 8	2.8	94030_at	Commd2	2.8	160083_at	Lpl	2.6
100348_at	X83313	2.8	93294_at	Ctgf	2.8	103054_at	Polr2a	2.6
95936_at	95936_at	3.0	93990_at	Hnrph1	2.8	103064_at	Chek1	2.7
94881_at	Cdkn1a	3.0	93871_at	Ilf1rn	2.8	160834_at	Sertad1	2.7
95951_at	Clec4d	3.0	96066_s_a t	Pkm2	2.8	102354_at	Tcf19	2.7
99842_at	Col19a1	3.0	103070_at	Ptpns1	2.8	160603_at	Pparbp	2.7



95082_at	Igfbp3	3.0	92539_at	S100a10	2.8	96081_at	Tk1	2.7
102955_at	Nfil3	3.2	95937_at	O610040J01Rik	3.0	160173_at	Gtl2	2.7
101732_at	Phxr5	3.2	103562_f_at	1300007C21Rik /// LOC433762 /// LOC546083	3.0	94231_at	Ccnd1	2.7
93933_at	Ppp1r3c	3.2	98942_r_at	2310032D16Rik	3.0	160066_at	Limd1	2.7
100687_f_at	V2r14	3.2	96513_at	Al451896	3.0	101985_at	Plg	2.7
95740_at	95740_at	3.5	93397_at	Ccr2	3.0	100479_at	Dnmt3a	2.7
104588_at	Hamp1	3.5	101936_at	Clk4	3.0	97421_at	Smc2l1	2.7
102658_at	Il1r2	3.5	95552_at	Dio1	3.0	93155_at	A930004K 21Rik	2.7
92694_at	Chi3l3	3.7	160424_f_at	Fdps /// LOC544723	3.0	104188_at	Notch2	2.7
102818_at	Xmr /// LOC38227 3 /// LOC43473 6 /// LOC43473 9 /// LOC43474 2 /// LOC43475 3 /// LOC54470 0 /// LOC54619 4 /// LOC54627 2 /// LOC54627 3 /// LOC54627 4 /// LOC54627 5 /// LOC54627 6 /// LOC54627 8 /// LOC54628 1 /// MGC1182 08 /// LOC54628 3 /// LOC54628 5 /// LOC54628 6 /// LOC54628 9 /// LOC54629 1 /// LOC54629 2	3.7	93015_at	Gsta3	3.0	93220_at	Col4a5	2.7
92202_g_at	Zbtb16	3.7	97258_at	Lactb2	3.0	93402_i_at	Birc4	2.7
160906_i_at	160906_i_at	4.6	93308_s_at	Pcx	3.0	94853_at	Gnb1	2.7
97402_at	Inmt	4.9	93718_at	Rab23	3.0	100701_r_at	Nr5a1	2.7
94297_at	Fkbp5	5.3	94056_at	Scd1	3.0	92956_at	Notch3	2.8
			98562_at	C1qa	3.2	104072_at	Apcs	2.8
			95654_at	Clic1	3.2	93228_at	Hells	2.8
			97297_at	Pcp4l1	3.2	103414_at	Skiv2l	2.8
			96093_at	O610007P14Rik	3.5	103634_at	Isgf3g	2.8
			95655_at	5830411E10Rik	3.5	103582_r_at	Ube2w	2.8

		99608_at	Prdx2	3.5	100320_at	Kpna4	2.8
		92736_at	Slc7a2	3.5	160659_at	Hdcc2	2.8
		96426_at	Tmsb4x	3.5	100593_at	Tnnt2	2.8
		162402_r_at	Hoxa4	3.7	103006_at	Atf5	2.8
		96672_at	MGI:1916782	3.7	93041_at	Mcm4	2.8
		94076_i_at	Rpn2	3.7	101178_at	Sema3c	2.9
		102035_at	Tpmt	3.7	160553_at	Ly6d	2.9
		103619_at	1810044O22Rik	4.0	93855_at	Rem1	2.9
		160546_at	Aldoc	4.0	103766_at	Sema5a	2.9
		103641_at	BC030183	4.0	103022_at	Map3k1	3.0
		103708_at	Eif1a	4.0	94415_at	6230421P05Rik	3.0
		95974_at	Gbp1	4.0	93912_at	Bat3	3.0
		93092_at	H2-DMa	4.0	94305_at	Col1a1	3.0
		103006_at	Atf5	4.3	104402_at	Gtf3c4	3.0
		103703_f_at	C730048C13Rik /// LOC434674	4.3	99367_at	Mapre1	3.0
		101872_at	Gsta2	4.3	92516_at	Ndst1	3.1
		161870_at	Usp15	4.3	97541_f_at	H2-D1	3.1
		93274_at	Clk1	4.6	98989_at	Dhcr7	3.2
		98989_at	Dhcr7	4.6	94802_at	BC060632	3.2
		98410_at	ligp2	4.6	93872_at	Gfra1	3.2
		101173_at	Pctp	4.6	160862_at	Ptp4a3	3.2
		103529_at	Tnfaip8l1	4.6	95021_at	9430010003Rik	3.2
		95555_at	Unc119	4.6	97506_at	Rnf2	3.2
		104165_at	Vnn1	4.6	100074_at	Tmed9	3.2
		97908_at	1110007A06Rik	4.9	93824_at	Cps1	3.2
		104444_at	9430098E02Rik	4.9	103806_at	Lrp5	3.2
		96026_at	Ahcy	4.9	100095_at	Scarb1	3.2
		92814_at	Cyp2j5	4.9	95007_at	Tpr	3.2
		160632_at	Prkcn	4.9	97998_at	Atn1	3.2
		93389_at	Prom1	4.9	99637_at	Col15a1	3.3
		97165_r_at	Adnp	5.3	103506_f_at	Dsc2	3.3
		93085_at	Psmb9	5.3	93721_at	Cap1	3.3
		92282_at	2610304G08Rik	5.7	100925_at	100925_at	3.3
		94774_at	Ifi202b	5.7	160667_at	Evl	3.3
		93772_i_at	Zfp265	5.7	102259_at	Ywhag	3.3
		96605_at	0610011104Rik	6.1	104168_at	Actr2	3.4
		103401_at	Acads	6.1	160986_r_at	Ace2	3.4
		102904_at	H2-Ea	6.1	94797_at	Slc26a1	3.4
		98092_at	Plac8	6.1	162459_f_at	Col6a1	3.4
		98084_at	Arl2bp	6.5	96895_at	Pon1	3.4
		96955_at	Atp6v0e2	6.5	95177_at	AA414993	3.5
		103072_at	Hsd3b1	6.5	98960_s_at	B3galt3	3.6
		95611_at	Lpl	7.0	92556_at	Akr1c6	3.7
		97160_at	Sparc	7.0	96047_at	Rbp4	3.7
		162034_r_at	Antxr2	7.5	100690_at	Th	3.7
		94881_at	Cdkn1a	7.5	93846_at	Snn	3.8
		93276_at	Hn1	7.5	104158_at	Snw1	3.8
		103710_at	MGC107415	7.5	160306_at	Thrsp	3.8
		94734_at	Orm2	7.5	161770_f_at	D1Ert161e	3.8
		93005_at	Syt1	8.0	103665_at	Elovl6	3.9

			104032_at	104032_at	8.6	95920_at	BC016495	3.9
			92841_f_at	Chgb	9.2	102848_f_at	2610524H06Rik	3.9
			102698_at	Epas1	9.8	92280_at	Actn1	3.9
			103791_at	Narg1	9.8	95727_at	Apoa5	4.0
			96651_at	Smarce1	9.8	97468_at	Cks1b	4.1
			98606_s_at	Wars	9.8	160522_at	D0H4S114	4.1
			160737_at	Lss	10.6	97772_at	Plau	4.1
			160213_at	Reg1	10.6	104239_at	Tspan32	4.2
			93721_at	Cap1	12.1	103235_at	Npy	4.3
			96124_at	2310001H13Rik	13.9	92659_at	Rapgef4	4.3
			103520_at	Vegfa	14.9	96038_at	Rnase4	4.4
			101840_at	Egfr	16.0	160829_at	Phlda1	4.4
			103080_at	Samhd1	17.1	160934_s_at	160934_s_at	4.5
			100120_at	Nid1	19.7	93670_at	Erf	4.5
			97890_at	Sgk	21.1	92207_at	Eln	4.6
			92833_at	Hal	22.6	93631_at	Arhgef2	4.6
			96713_at	Papss2	24.3	100062_at	Mcm3	4.7
			101973_at	Cited2	26.0	95888_at	Aff4	4.8
			98480_s_at	Ren1 /// Ren2	27.9	98731_at	Rab5b	4.9
			104225_at	Snx5	32.0	103519_at	Ces1	4.9
			92198_s_at	Daf2	34.3	98824_at	Irs1	5.0
			102860_at	Serpina3g	34.3	99507_at	Ucp1	5.1
			160316_at	2310005N03Rik	39.4	93225_s_at	Cyp21a1	5.2
			102353_at	Itgb2	39.4	102826_at	Akr1b7	5.2
			160735_at	Lin10	55.7	99515_at	99515_at	5.3
			95749_at	Armet	111.4	93926_at	Prlr	5.3
			101979_at	Gadd45g	362.0	103522_at	Sgcd	5.5
						100462_at	Arf6	5.6
						99897_at	Gabrb3	5.6
						104484_at	Sult2a2	5.9
						103952_at	Hoxb9	6.0
						95561_at	Syce2	6.1
						104066_at	AW548124	6.1
						161574_r_at	Atp2c1	6.5
						95879_at	Asf1a	6.6
						103369_at	9430029L20Rik	6.7
						98925_at	Vamp2	6.7
						97796_at	Crsp2	6.8
						103577_at	Pfkfb3	6.9
						104672_at	Frzb	7.2
						99564_at	Uhrf1	7.2
						100156_at	Mcm5	7.4
						98390_at	Impdh1	7.5
						100060_i_at	Klk6 /// Klk5	7.8
						94356_at	Trp53bp1	8.3
						161869_i_at	Hspca /// LOC433221 /// LOC544800 /// LOC545508	8.6
						104591_g_at	Mef2c	8.7
						161748_r_at	161748_r_	9.2

							at	
						98063_at	Glycam1	9.8
						96532_at	Ddx50	9.8
						94777_at	Alb1	9.9
						92740_at	Igh-6	10.7
						161326_f_at	Serpina6	10.7
						99457_at	Mki67	11.0
						103434_at	Pscd3	11.2
						94075_at	Fabp1	12.7
						92981_at	Scg2	12.8
						92901_at	Rara	12.9
						94045_at	Ambp	13.0
						160919_r_at	Fgfr3	13.3
						98116_at	Hpxn	13.3
						103072_at	Hsd3b1	14.2
						101028_i_at	Actc1	17.2
						93514_at	Myl3	17.3
						104024_at	Cyp3a25	18.4
						96094_at	Apoa1	19.1
						102020_at	Kcnk3	19.1
						98549_at	Vtn	21.5
						99862_at	Ahsg	21.6
						93050_at	Myl2	21.9
						102904_at	H2-Ea	23.3
						102280_at	Pcdh7	24.2
						96228_at	Cyp11a1	28.3
						101899_at	F2	30.2
						93770_at	Cyp3a11	35.1
						92737_at	Irf4	36.0
						101071_at	Myh6	45.8
						101638_s_at	Cyp3a11 /// Cyp3a16	49.5
						92841_f_at	Chgb	61.8
						92213_at	Star	139.4