Supplementary table 1. Gene clusters enriched in the liver after *in vivo* Plin2-ASO treatment

A. Fatty acid metabolism

Gene Name and Gene Symbol		FC	FDR (%)	Probe ID*	Target ID**
myosin VA	Myo5a	3.43	0.28	A_52_P635898	NM_010864
arachidonate 5-lipoxygenase activating protein	Alox5ap	3.03	0.24	A_51_P235687	NM_009663
hydroxyacid oxidase 2	Hao3	2.56	0.24	A_51_P114722	NM_019545
ELOVL family member 7, elongation of long chain fatty acids (yeast)	Elovl7	2.50	0.28	A_52_P354682	NM_029001
acyl-CoA synthetase long-chain family member 4	Acsl4	2.26	0.80	A_52_P78203	NM_207625
similar to Quaking protein; quaking	Qk	2.17	0.40	A_51_P434670	NM_021881
stearoyl-Coenzyme A desaturase 2	Scd2	2.16	0.92	A_51_P129464	NM_009128
fatty acid desaturase 3	Fads3	1.66	0.55	A_51_P464029	NM_021890
degenerative spermatocyte homolog 2 (Drosophila), lipid desaturase	Degs2	1.60	0.28	A_51_P122649	NM_027299
ELOVL family member 5, elongation of long chain fatty acids (yeast)	Elovl5	-1.60	0.92	A_52_P676944	NM_134255
acyl-CoA synthetase long-chain family member 1	Acsl1	-1.69	0.92	A_51_P496432	NM_007981
acyl-CoA thioesterase 11	Acot11	-1.70	0.36	A_51_P226453	NM_025590
lipase, hormone sensitive	Lipe	-1.80	0.36	A_51_P435363	NM_010719
lipase, hepatic	Lipc	-2.07	0.35	A_51_P263993	NM_008280
acyl-CoA synthetase medium-chain family member 1	Acsm1	-2.18	0.00	A_51_P376138	NM_054094
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1; predicted gene 4459	Ndufab1	-2.38	0.36	A_52_P303235	AK008788
growth hormone receptor	Ghr	-2.45	0.35	A_52_P680941	NM_010284
cytochrome P450, family 4, subfamily a, polypeptide 12a	Cyp4a12	-2.58	0.44	A_51_P433360	NM_177406

B. Steroid metabolism

Gene Name and Gene Symbol		FC	FDR (%)	Probe ID	Target ID
oxysterol binding protein-like 3	Osbpl3	4.21	0.00	A_51_P196844	NM_027881
sulfotransferase family 1E, member 1	Sult1e1	3.38	0.92	A_51_P493649	NM_023135
cytochrome P450, family 39, subfamily a, polypeptide 1	Cyp39a1	2.36	0.92	A_52_P557265	NM_018887
oxysterol binding protein-like 3	Osbpl3	2.04	0.28	A_52_P360308	AK040984

oxysterol binding protein-like 7	Osbpl7	1.74	0.28	A_52_P275354	NM_001081434
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	Ywhah	1.69	0.40	A_51_P306527	NM_011738
oxysterol binding protein-like 9	Osbpl9	-1.62	0.67	A_51_P272844	NM_173350
oxysterol binding protein-like 1A	Osbpl1a	-1.63	0.36	A_52_P19606	NM_207530
hydroxysteroid 11-beta dehydrogenase 1	Hsd11b1	-1.76	0.36	A_51_P127297	NM_008288
3-hydroxy-3-methylglutaryl-Coenzyme A reductase	Hmgcr	-1.77	0.36	A_52_P232287	NM_008255
lipase, hormone sensitive	Lipe	-1.80	0.36	A_51_P435363	NM_010719
hydroxysteroid (17-beta) dehydrogenase 2	Hsd17b2	-2.05	0.40	A_51_P441914	NM_008290
lipase, hepatic	Lipc	-2.07	0.35	A_51_P263993	NM_008280
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2	Hsd3b2	-2.20	0.35	A_52_P339759	NM_153193
steroid 5 alpha-reductase 1	Srd5a1	-2.89	0.80	A_51_P420415	NM_175283
NAD(P) dependent steroid dehydrogenase-like	Nsdhl	-2.96	0.36	A_51_P326942	NM_010941
sulfotransferase family 1B, member 1	Sult1b1	-5.29	0.36	A_51_P206551	NM_019878
predicted gene 4450; hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 4; predicted gene 10681	Hsd3b4	-5.82	0.67	A_51_P352005	NM_008294
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 5	Hsd3b5	-33.59	0.36	A_51_P496162	NM_008295

C. Mitosis/cell cycle

Gene Name and Gene Symbol		**FC**	**FDR (%)**	**Probe ID***	**Target ID****
cell division cycle 20 homolog (S. cerevisiae)	Cdc20	6.19	0.00	A_51_P361022	NM_023223
cyclin A2	Ccna2	3.86	0.00	A_51_P481920	NM_009828
cell division cycle 2 homolog A (S. pombe)	Cdc2a	3.63	0.28	A_51_P450033	NM_007659
predicted gene 8416; predicted gene 5593; cyclin B1; similar to cyclin B1; predicted gene 4870	Ccnb1	3.09	0.24	A_52_P202770	NM_172301
SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	Spbc25	3.07	0.00	A_51_P514700	NM_025565
shugoshin-like 1 (S. pombe)	Sgol1	2.96	0.00	A_51_P487999	NM_028232

similar to Nuf2 protein; NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	Cdca1	2.94	0.00	A_51_P513682	NM_023284
centromere protein E	Cenpe	2.79	0.00	A_51_P164014	BC059032
similar to spindle assembly checkpoint protein; MAD2 mitotic arrest deficient-like 1 (yeast)	Mad2l1	2.79	0.55	A_51_P230873	NM_019499
ubiquitin-conjugating enzyme E2C; predicted gene 8956	Ube2c	2.70	0.00	A_51_P451151	NM_026785
budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	Bub1	2.59	0.00	A_51_P123405	NM_009772
inner centromere protein	Incenp	2.47	0.28	A_51_P264064	NM_016692
cell division cycle associated 8	Cdca8	2.41	0.00	A_51_P155142	NM_026560
cell division cycle associated 2	Cdca2	2.37	0.28	A_51_P444696	NM_175384
similar to Kifc1 protein; kinesin family member C1; predicted gene 4137	Kifc1	2.27	0.28	A_51_P137433	NM_053173
structural maintenance of chromosomes 4	Smc4	2.26	0.92	A_51_P111210	NM_133786
similar to Kinesin-like protein KIF2C (Mitotic centromere-associated kinesin) (MCAK); kinesin family member 2C	Kif2c	2.26	0.00	A_51_P135092	NM_134471
sperm associated antigen 5	Spag5	2.19	0.28	A_51_P513530	NM_017407
similar to spindle assembly checkpoint protein; MAD2 mitotic arrest deficient-like 1 (yeast)	Mad2l1	2.12	0.40	A_51_P230878	U83902
nucleolar and spindle associated protein 1	Nusap1	2.08	0.28	A_51_P240453	NM_133851
anillin, actin binding protein	Anln	2.08	0.28	A_52_P512955	NM_028390
non-SMC condensin I complex, subunit D2	2810406 C15Rik	2.05	0.18	A_52_P139399	NM_146171
kinesin family member 11	Kif11	1.99	0.28	A_51_P481398	NM_010615
structural maintenance of chromosomes 2	Smc2	1.99	0.28	A_52_P636199	NM_008017
cyclin B2	Ccnb2	1.98	0.28	A_51_P457528	NM_007630
baculoviral IAP repeat-containing 5	Birc5	1.94	0.40	A_51_P230103	NM_009689
kinesin family member 20B	Kif20b	1.82	0.30	A_52_P149336	NM_183046
centromere protein E	Cenpe	1.81	0.00	A_51_P174192	NM_173762

anaphase promoting complex subunit 4	Anapc4	1.80	0.28	A_51_P434198	NM_024213
RIKEN cDNA F630043A04 gene	F630043A04Rik	1.68	0.44	A_51_P519791	NM_198605
budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae)	Bub1b	1.65	0.92	A_51_P490509	NM_009773
cancer susceptibility candidate 5	Casc5	1.64	0.28	A_51_P489285	BC080815
excision repair cross-complementing rodent repair deficiency complementation group 6 - like	Ercc6l	1.61	0.40	A_51_P123134	NM_146235
rho/rac guanine nucleotide exchange factor (GEF) 2	Arhgef2	1.60	0.92	A_52_P157677	NM_008487
predicted gene 8545; microtubule-associated protein, RP/EB family, member 1; similar to Microtubule-associated protein RP/EB family member 1 (APC-binding protein EB1) (End-binding protein 1) (EB1)	Mapre1	1.57	0.30	A_51_P185509	AK087318
cell division cycle 25 homolog B (S. pombe)	Cdc25b	1.56	0.28	A_51_P474431	NM_023117
cancer susceptibility candidate 5	Casc5	1.55	0.24	A_51_P442964	AK017750
DSN1, MIND kinetochore complex component, homolog (S. cerevisiae)	1700022L09Rik	1.55	0.28	A_51_P337655	NM_025853
ubiquitin specific peptidase 9, X chromosome	Usp9x	-1.64	0.40	A_51_P261528	NM_009481
thioredoxin-like 4A	Txnl4	-2.47	0.36	A_51_P360836	NM_178604
NIMA (never in mitosis gene a)-related expressed kinase 1	Nek1	-2.51	0.35	A_52_P673519	AK173292

D. Kinetochrome

Gene Name and Gene Symbol		**FC**	**FDR (%)**	**Probe ID***	**Target ID****
SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	Spbc25	3.07	0.00	A_51_P514700	NM_025565
centromere protein A	Cenpa	2.97	0.24	A_51_P273979	NM_007681
shugoshin-like 1 (S. pombe)	Sgol1	2.96	0.00	A_51_P487999	NM_028232

similar to Nuf2 protein; NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	Cdca1	2.94	0.00	A_51_P513682	NM_023284
centromere protein E	Cenpe	2.79	0.00	A_51_P164014	BC059032
similar to spindle assembly checkpoint protein; MAD2 mitotic arrest deficient-like 1 (yeast)	Mad2l1	2.79	0.55	A_51_P230873	NM_019499
budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	Bub1	2.59	0.00	A_51_P123405	NM_009772
inner centromere protein	Incenp	2.47	0.28	A_51_P264064	NM_016692
similar to Kinesin-like protein KIF2C (Mitotic centromere-associated kinesin) (MCAK); kinesin family member 2C	Kif2c	2.26	0.00	A_51_P135092	NM_134471
sperm associated antigen 5	Spag5	2.19	0.28	A_51_P513530	NM_017407
similar to spindle assembly checkpoint protein; MAD2 mitotic arrest deficient-like 1 (yeast)	Mad2l1	2.12	0.40	A_51_P230878	U83902
centromere protein E	Cenpe	1.81	0.00	A_51_P174192	NM_173762
RIKEN cDNA F630043A04 gene	F63004 3A04Ri k	1.68	0.44	A_51_P519791	NM_198605
centromere protein H	Cenph	1.66	0.28	A_51_P492830	NM_021886
budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae)	Bub1b	1.65	0.92	A_51_P490509	NM_009773
cancer susceptibility candidate 5	Casc5	1.64	0.28	A_51_P489285	BC080815
excision repair cross-complementing rodent repair deficiency complementation group 6 - like	Ercc6l	1.61	0.40	A_51_P123134	NM_146235
cancer susceptibility candidate 5	Casc5	1.55	0.24	A_51_P442964	AK017750
DSN1, MIND kinetochore complex component, homolog (S. cerevisiae)	1700022 L09Rik	1.55	0.28	A_51_P337655	NM_025853
nucleoporin 133	Nup133	-2.42	0.24	A_51_P288447	NM_172288

E. Hepatocyte proliferation

Gene Name and Gene Symbol		**FC**	**FDR (%)**	**Probe ID***	**Target ID****
alpha fetoprotein	Afp	45.79	0.18	A_51_P510891	NM_007423

H19 fetal liver mRNA	H19	20.61	0.00	A_52_P571350	AK003142
H19 fetal liver mRNA	H19	15.86	0.00	A_51_P142196	BC025150
antigen identified by monoclonal antibody Ki 67	Mki67	4.71	0.00		X82786

F. Extracellular matrix

Gene Name and Gene Symbol		**FC**	**FDR (%)**	**Probe ID***	**Target ID****
collagen, type I, alpha 1	Col1a1	7.73	0.28	A_52_P525107	NM_007742
matrix metallopeptidase 12	Mmp12	7.41	0.00	A_51_P313674	NM_008605
lectin, galactose binding, soluble 3	Lgals3	7.09	0.28	A_51_P101929	NM_010705
coiled-coil domain containing 80	Ccdc80	6.33	0.00	A_51_P248786	NM_026439
collagen, type III, alpha 1	Col3a1	6.22	0.24	A_51_P515605	NM_009930
periostin, osteoblast specific factor	Postn	4.38	0.18	A_51_P489192	NM_015784
lumican	Lum	4.06	0.40	A_51_P167527	NM_008524
collagen, type I, alpha 2	Col1a2	3.32	0.92	A_51_P182303	NM_007743
secreted acidic cysteine rich glycoprotein; similar to Secreted acidic cysteine rich glycoprotein	Sparc	3.29	0.18	A_51_P431087	NM_009242
similar to Nidogen precursor (Entactin); nidogen 1; similar to Nid1 protein	Nid1	3.27	0.28	A_51_P339943	NM_010917
spondin 2, extracellular matrix protein	Spon2	3.16	0.28	A_52_P381484	NM_133903
collagen, type IV, alpha 1	Col4a1	3.10	0.28	A_51_P124254	NM_009931
matrix metallopeptidase 8	Mmp8	2.89	0.28	A_51_P231320	NM_008611
matrix metallopeptidase 7	Mmp7	2.71	0.44	A_51_P426096	NM_010810
collagen, type II, alpha 1	Col2a1	2.70	0.67	A_51_P317141	NM_031163
surfactant associated protein D	Sftpd	2.63	0.00	A_51_P35982	NM_009160
collagen, type VI, alpha 1	Col6a1	2.50	0.18	A_51_P474496	NM_009933
collagen, type XIV, alpha 1	Col14a1	2.50	0.30	A_51_P326529	NM_181277
microfibrillar-associated protein 2	Mfap2	2.36	0.28	A_51_P227502	NM_008546
a disintegrin and metallopeptidase domain 15 (metargidin)	Adam15	2.27	0.40	A_51_P291815	NM_009614
cartilage associated protein	Crtap	2.24	0.28	A_51_P201721	NM_019922
ectonucleoside triphosphate diphosphohydrolase 2	Entpd2	2.12	0.28	A_51_P112932	NM_009849
transforming growth factor, beta 3	Tgfb3	2.03	0.44	A_51_P124748	NM_009368
collagen, type V, alpha 2	Col5a2	2.00	0.92	A_51_P247883	NM_007737

epidermal growth factor-containing fibulin-like extracellular matrix protein 2	Efemp2	1.98	0.28	A_51_P160544	NM_021474
transglutaminase 2, C polypeptide	Tgm2	1.97	0.30	A_52_P220879	NM_009373
multimerin 2	Mmrn2	1.93	0.30	A_51_P414396	NM_153127
transforming growth factor, beta 1	Tgfb1	1.92	0.28	A_51_P390715	NM_011577
Von Willebrand factor homolog	Vwf	1.85	0.44	A_51_P103397	DQ355288
laminin, gamma 1	Lamc1	1.84	0.40	A_51_P199354	NM_010683
collagen, type V, alpha 1	Col5a1	1.72	0.40	A_51_P414637	NM_015734
laminin, gamma 2	Lamc2	1.67	0.28	A_51_P174943	NM_008485
collagen, type IV, alpha 2	Col4a2	1.64	0.18	A_52_P496142	NM_009932
matrix metallopeptidase 14 (membrane-inserted)	Mmp14	1.57	0.28	A_51_P216303	NM_008608
interphotoreceptor matrix proteoglycan 2	Impg2	-1.74	0.36	A_52_P26106	NM_174876
laminin, alpha 3	Lama3	-1.76	0.36	A_51_P167489	XM_140451
angiogenin, ribonuclease, RNase A family, 5	Ang1	-1.87	0.36	A_51_P391159	NM_007447
matrix metallopeptidase 15	Mmp15	-1.88	0.36	A_51_P220062	NM_008609
fibroblast growth factor 1	Fgf1	-2.54	0.23	A_51_P148828	NM_010197
collagen, type V, alpha 3	Col5a3	-2.99	0.23	A_52_P503796	NM_016919

G. Others

Gene Name and Gene Symbol		FC	FDR (%)	Probe ID*	Target ID**
flavin containing monooxygenase 3	Fmo3	26.80	0.24	A_51_P269404	NM_008030
RIKEN cDNA D630002G06 gene	D630002G06Rik	16.44	0.00	A_51_P144531	NM_172776
small proline-rich protein 1A	Sprr1a	10.27	0.00	A_51_P139678	NM_009264
calmodulin-like 4	Calml4	7.91	0.67	A_52_P367760	NM_138304
keratin 23	Krt23	7.37	0.00	A_51_P287198	NM_033373
lipoprotein lipase; similar to Lipoprotein lipase precursor (LPL)	Lpl	6.72	0.13	A_52_P257812	NM_008509
glycoprotein (transmembrane) nmb	Gpnmb	6.50	0.13	A_51_P438967	NM_053110
lymphocyte antigen 6 complex, locus D	Ly6d	6.33	0.28	A_51_P343517	NM_010742
secreted phosphoprotein 1	Spp1	6.22	0.24	A_51_P358765	NM_009263
histocompatibility 2, Q region locus 1; histocompatibility 2, Q region locus 9; similar to H-2 class I histocompatibility	H2-Q1	6.04	0.00	A_52_P231729	U96752

antigen, L-D alpha chain precursor; histocompatibility 2, Q region locus 8; histocompatibility 2, Q region locus 2; similar to MHC class Ib antigen; histocompatibility 2, Q region locus 7; histocompatibility 2, Q region locus 6; hypothetical protein LOC100044307; similar to H-2 class I histocompatibility antigen, Q7 alpha chain precursor (QA-2 antigen); RIKEN cDNA 0610037M15 gene					
a disintegrin and metallopeptidase domain 8	Adam8	5.83	0.30	A_51_P319917	NM_007403
predicted gene 4322; brain expressed gene 4	Bex4	5.70	0.00	A_51_P494342	NM_212457
capping protein (actin filament), gelsolin-like	Capg	5.70	0.28	A_51_P273921	NM_007599
CD63 antigen	Cd63	5.66	0.24	A_51_P511810	NM_007653
similar to Annexin A2 (Annexin II) (Lipocortin II) (Calpactin I heavy chain) (Chromobindin-8) (p36) (Protein I) (Placental anticoagulant protein IV) (PAP-IV); annexin A2	Anxa2	5.58	0.00	A_52_P62037	NM_007585
regulator of G-protein signaling 1	Rgs1	5.45	0.92	A_51_P260683	NM_015811
neurotrophic tyrosine kinase, receptor, type 2	Ntrk2	5.43	0.24	A_51_P516006	AK018789
tubulointerstitial nephritis antigen	Tinag	5.27	0.13	A_51_P283004	NM_012033
triggering receptor expressed on myeloid cells 2	Trem2	5.20	0.00	A_51_P269549	NM_031254
predicted gene 7665; S100 calcium binding protein A11 (calgizzarin); predicted gene 5068	S100a 11	4.98	0.24	A_51_P155643	NM_016740
cytochrome P450, family 3, subfamily a, polypeptide 44	Cyp3a 44	4.93	0.28	A_52_P366803	NM_177380
neural proliferation, differentiation and control gene 1	Npdc1	4.93	0.00	A_51_P154596	NM_008721
DNA segment, Chr 17, human D6S56E 5	D17H6 S56E- 5	4.87	0.55	A_52_P416756	NM_033075
maternally expressed 3	Meg3	4.86	0.13	A_51_P455997	AK155982

tubulin, beta 6	Tubb6	4.84	0.00	A_51_P421140	NM_026473
plakophilin 1	Pkp1	4.78	0.00	A_51_P151732	NM_019645
CD36 antigen	Cd36	4.76	0.28	A_51_P375138	L23108
CD14 antigen	Cd14	4.65	0.40	A_51_P172853	NM_009841
cyclin-dependent kinase inhibitor 3	Cdkn3	4.59	0.00	A_52_P30989	BC049694
neurotrophic tyrosine kinase, receptor, type 2	Ntrk2	4.59	0.00	A_51_P516012	NM_008745
CD36 antigen	Cd36	4.54	0.28	A_51_P375146	NM_007643
ependymin related protein 1 (zebrafish)	Epdr2	4.43	0.00	A_52_P577388	NM_134065
tubulin, alpha 8	Tuba8	4.38	0.00	A_52_P303161	NM_017379
protein regulator of cytokinesis 1	Prc1	4.34	0.00	A_51_P366931	NM_145150
discoidin domain receptor family, member 1	Ddr1	4.31	0.00	A_51_P161582	NM_007584
CD93 antigen	Cd93	4.28	0.18	A_51_P238722	NM_010740
tubulin, beta 2A	Tubb2a	4.28	0.00	A_51_P490023	NM_009450
RIKEN cDNA 2310043N10 gene	2310043N10Rik	4.18	0.40	A_51_P234692	AK028745
synaptogyrin 1	Syngr1	4.14	0.24	A_51_P270741	NM_009303
fibulin 5	Fbln5	4.10	0.28	A_51_P186703	NM_011812
PDZ binding kinase	Pbk	4.10	0.00	A_51_P230098	NM_023209
lysozyme 2	Lyzs	4.08	0.30	A_52_P238027	NM_017372
stathmin 1; predicted gene 11223; predicted gene 6393	Stmn1	4.04	0.00	A_51_P495641	NM_019641
minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae)	Mcm6	4.04	0.00	A_51_P360492	NM_008567
brain expressed gene 1	Bex1	4.01	0.00	A_51_P279154	NM_009052
5' nucleotidase, ecto	Nt5e	4.01	0.00	A_52_P574668	NM_011851
vimentin	Vim	3.87	0.30	A_51_P392687	NM_011701
LysM, putative peptidoglycan-binding, domain containing 2	Lysmd2	3.82	0.18	A_51_P233160	NM_027309
RIKEN cDNA 1190002F15 gene	1190002F15Rik	3.79	0.80	A_52_P354373	AK138072
RIKEN cDNA 5430435G22 gene	5430435G22Rik	3.74	0.28	A_52_P244682	NM_145509
RIKEN cDNA 5730416F02 gene	5730416F02Rik	3.73	0.28	A_52_P110070	AK017567
UDP-N-acteylglucosamine pyrophosphorylase 1-like 1	Uap1l1	3.66	0.28	A_51_P509669	NM_001033293
CD34 antigen	Cd34	3.65	0.44	A_51_P204740	NM_133654

solute carrier family 5 (sodium iodide symporter), member 5	Slc5a5	3.64	0.00	A_51_P115738	NM_053248
histone cluster 1, H1c	Hist1h 1c	3.64	0.00	A_51_P516133	NM_015786
similar to LPS-induced CXC chemokine; chemokine (C-X-C motif) ligand 5	Cxcl5	3.56	0.28	A_52_P295432	NM_009141
mesoderm specific transcript	Mest	3.51	0.55	A_51_P124535	NM_008590
colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage)	Csf2rb 2	3.46	0.28	A_51_P146753	NM_007781
cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	Cdkn2 c	3.43	0.28	A_51_P513720	U19596
zinc finger, DHHC domain containing 2	Zdhhc 2	3.42	0.30	A_52_P281941	NM_178395
SH3 domain binding glutamic acid-rich protein-like 3	Sh3bgr l3	3.40	0.28	A_51_P344752	NM_080559
armadillo repeat containing, X-linked 4	AI448 196	3.37	0.28	A_51_P346634	BC025879
CD68 antigen	Cd68	3.36	0.28	A_51_P120470	NM_009853
interferon, alpha-inducible protein 27 like 2B	18100 23F06 Rik	3.35	0.28	A_51_P391432	NM_145449
cytoskeleton associated protein 2-like	Ckap2l	3.35	0.00	A_52_P399584	NM_181589
BMP-binding endothelial regulator	Bmper	3.35	0.28	A_51_P488196	NM_028472
WAP four-disulfide core domain 3	Wfdc3	3.31	0.00	A_52_P416086	NM_027961
pleckstrin homology-like domain, family A, member 3	Phlda3	3.30	0.28	A_51_P329928	NM_013750
zinc finger protein 259	Zfp259	3.30	0.44	A_52_P43135	AK168061
NIMA (never in mitosis gene a)-related expressed kinase 2	Nek2	3.27	0.00	A_51_P501018	NM_010892
lysozyme 1	Lzp-s	3.26	0.30	A_52_P582059	NM_013590
abhydrolase domain containing 2	Abhd2	3.25	0.30	A_51_P440584	NM_018811
ceroid-lipofuscinosis, neuronal 6	Cln6	3.21	0.28	A_52_P163939	NM_00103317 5
predicted gene 6560; predicted gene 2124; predicted gene 6992; pyruvate kinase, muscle; similar to M2-type pyruvate kinase	Pkm2	3.20	0.40	A_52_P150212	NM_011099
pleiomorphic adenoma gene-like 1	Plagl1	3.19	0.00	A_52_P532456	BC065150
solute carrier family 25	Slc25a	3.18	0.28	A_52_P105040	NM_007450

(mitochondrial carrier, adenine nucleotide translocator), member 4	4				
golgi membrane protein 1	Golph 2	3.16	0.18	A_51_P171200	NM_027307
integrin alpha 6	Itga6	3.16	0.28	A_51_P262401	BC024571
basic helix-loop-helix domain containing, class B9	Bhlhb9	3.14	0.00	A_51_P323081	NM_198161
histone cluster 1, H2ad; histone cluster 1, H2ae; histone cluster 1, H2ag; histone cluster 1, H2ah; histone cluster 1, H2ai; similar to histone 2a; histone cluster 1, H2an; histone cluster 1, H2ao; histone cluster 1, H2ac; histone cluster 1, H2ab	MGC7 3635	3.13	0.00	A_52_P130490	BC090402
glypican 3	Gpc3	3.13	0.28	A_52_P23225	NM_016697
coactosin-like 1 (Dictyostelium)	Cotl1	3.11	0.28	A_52_P435356	NM_028071
RecQ protein-like 4	Recql4	3.09	0.18	A_51_P260178	NM_058214
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	Mthfd 1l	3.09	0.00	A_52_P167278	NM_172308
WD repeat domain 40B	Wdr40 b	3.08	0.28	A_51_P170795	NM_178739
cell division cycle associated 3	Cdca3	3.06	0.00	A_52_P628067	NM_013538
chemokine (C-C motif) ligand 6	Ccl6	3.04	0.55	A_51_P460954	NM_009139
predicted gene 6560; predicted gene 2124; predicted gene 6992; pyruvate kinase, muscle; similar to M2-type pyruvate kinase	Pkm2	3.00	0.28	A_51_P428913	D38379
shisa homolog 2 (Xenopus laevis)	Tmem 46	2.99	0.28	A_51_P408649	NM_145463
predicted gene 9975	C7300 49P21	2.99	0.28	A_52_P238159	AK050463
insulin-like growth factor 2	Igf2	2.99	0.30	A_51_P516826	NM_010514
centromere protein A	Cenpa	2.97	0.24	A_51_P273979	NM_007681
growth arrest specific 6	Gas6	2.97	0.18	A_51_P172054	NM_019521
ASF1 anti-silencing function 1 homolog B (S. cerevisiae)	Asf1b	2.97	0.00	A_51_P330213	NM_024184
chemokine (C-C motif) ligand 4	Ccl4	2.97	0.28	A_51_P509573	NM_013652
Rho GTPase activating protein 22	Arhga p22	2.96	0.00	A_51_P438165	NM_153800
Kruppel-like factor 6	Klf6	2.93	0.18	A_51_P503162	NM_011803

cathepsin S	Ctss	2.92	0.67	A_51_P423981	NM_021281
histone cluster 1, H1d	Hist1h 1d	2.90	0.00	A_52_P10683	NM_145713
EP300 interacting inhibitor of differentiation 1	Cri1	2.90	0.40	A_51_P205564	NM_025613
serum deprivation response	Sdpr	2.89	0.55	A_51_P277336	NM_138741
nerve growth factor receptor (TNFRSF16) associated protein 1	Ngfrap 1	2.86	0.18	A_51_P408155	NM_009750
CD44 antigen	Cd44	2.83	0.55	A_52_P229536	NM_009851
histone cluster 1, H4k; histone cluster 1, H4m; histone cluster 4, H4; similar to germinal histone H4 gene; histone cluster 1, H4h; histone cluster 1, H4j; histone cluster 1, H4i; histone cluster 1, H4d; histone cluster 1, H4c; histone cluster 1, H4f; histone cluster 1, H4b; histone cluster 1, H4a; histone cluster 2, H4; similar to histone H4	Hist2h 4	2.83	0.18	A_51_P426975	NM_033596
potassium channel tetramerisation domain containing 17	Kctd17	2.82	0.24	A_52_P35057	NM_00108136 7
Rac GTPase-activating protein 1; predicted gene 1859	Racga p1 49314	2.82	0.24	A_51_P243750	NM_012025
RIKEN cDNA 4931408D14 gene	08D14 Rik	2.81	0.00	A_51_P480020	AK016444
GIPC PDZ domain containing family, member 2	Gipc2	2.81	0.18	A_51_P446131	NM_016867
histone cluster 1, H2af	Hist1h 2af	2.81	0.00	A_52_P498210	NM_175661
Rho GTPase activating protein 25	Arhga p25	2.80	0.30	A_51_P248629	NM_175476
cyclin D1	Ccnd1	2.79	0.00	A_51_P262766	NM_007631
myoferlin	Fer1l3	2.79	0.30	A_51_P378589	XM_283556
tubulin, beta 5	Tubb5	2.79	0.00	A_52_P163795	NM_011655
predicted gene 15428; RIKEN cDNA 2810417H13 gene; predicted gene 9171	28104 17H13 Rik	2.78	0.00	A_52_P13448	NM_026515
pannexin 1	Panx1	2.77	0.55	A_51_P135340	NM_019482
histone cluster 1, H4k; histone cluster 1, H4m; histone cluster 4, H4; similar to germinal histone H4 gene; histone cluster 1, H4h;	Hist1h 4f	2.76	0.18	A_52_P52964	NM_175655

histone cluster 1, H4j; histone cluster 1, H4i; histone cluster 1, H4d; histone cluster 1, H4c; histone cluster 1, H4f; histone cluster 1, H4b; histone cluster 1, H4a; histone cluster 2, H4; similar to histone H4					
lysyl oxidase-like 2	Loxl2	2.75	0.28	A_52_P480351	NM_033325
low density lipoprotein-related protein 12	Lrp12	2.75	0.28	A_51_P200484	NM_172814
ect2 oncogene	Ect2	2.75	0.30	A_51_P130015	NM_007900
tetraspanin 8	Tspan8	2.75	0.28	A_52_P306744	NM_146010
FXYD domain-containing ion transport regulator 5	Fxyd5	2.75	0.28	A_51_P381260	NM_008761
DNA primase, p49 subunit	Prim1	2.74	0.28	A_51_P168632	NM_008921
neuron derived neurotrophic factor	Nenf	2.72	0.28	A_51_P126987	NM_025424
RIKEN cDNA 2810022L02 gene	2810022L02 Rik	2.71	0.24	A_51_P202911	NM_144882
establishment of cohesion 1 homolog 2 (S. cerevisiae)	Esco2	2.71	0.55	A_51_P195034	NM_028039
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	St3gal 2	2.70	0.13	A_52_P408530	NM_178048
coiled-coil domain containing 34	2810027O19 Rik	2.68	0.44	A_51_P312482	NM_026613
RIKEN cDNA A330021E22 gene	A3300 21E22 Rik	2.65	0.00	A_51_P116601	NM_172447
transgelin 2	Tagln2	2.65	0.28	A_52_P35240	NM_178598
cytochrome b-245, alpha polypeptide	Cyba	2.64	0.80	A_51_P131800	NM_007806
coronin, actin binding protein 1A	Coro1a	2.64	0.30	A_51_P300277	NM_009898
histone cluster 1, H4k; histone cluster 1, H4m; histone cluster 4, H4; similar to germinal histone H4 gene; histone cluster 1, H4h; histone cluster 1, H4j; histone cluster 1, H4i; histone cluster 1, H4d; histone cluster 1, H4c; histone cluster 1, H4f; histone cluster 1, H4b; histone cluster 1, H4a; histone cluster 2, H4; similar to histone H4	Hist1h 4d	2.64	0.24	A_51_P136097	NM_175654

epithelial membrane protein 1	Emp1	2.63	0.44	A_52_P120037	NM_010128
xylosyltransferase 1	Xylt1	2.63	0.28	A_51_P205913	NM_175645
guanine nucleotide binding protein (G protein), gamma 11	Gng11	2.62	0.92	A_51_P136355	NM_025331
kinesin family member 20A	Kif20a	2.62	0.00	A_51_P133138	Y09632
RIKEN cDNA 6330439K17 gene	28100 39F03 Rik	2.62	0.18	A_51_P237548	NM_172859
bicaudal C homolog 1 (Drosophila)	Bicc1	2.61	0.28	A_51_P356493	NM_031397
Fc receptor, IgE, high affinity I, gamma polypeptide	Fcer1g	2.60	0.44	A_51_P405476	NM_010185
Max dimerization protein 3	Mxd3	2.60	0.00	A_51_P315530	NM_016662
linker for activation of T cells family, member 2	Lat2	2.59	0.28	A_51_P242930	NM_022964
integrin alpha X	Itgax	2.59	0.30	A_51_P303424	NM_021334
S100 calcium binding protein G	S100g	2.58	0.28	A_51_P118545	NM_009789
transcription factor 19	Tcf19	2.58	0.30	A_51_P505172	NM_025674
mitogen-activated protein kinase kinase kinase kinase 4	94300 80K19 Rik	2.58	0.18	A_51_P439876	AK020498
ATP-binding cassette, sub-family D (ALD), member 2	Abcd2	2.58	0.28	A_51_P249302	NM_011994
ras homolog gene family, member C	Rhoc	2.57	0.18	A_51_P282508	NM_007484
amyloid beta (A4) precursor protein	App	2.57	0.40	A_52_P468472	NM_007471
tropomyosin 1, alpha	Tpm1	2.57	0.00	A_52_P44949	NM_024427
tumor necrosis factor receptor superfamily, member 12a	Tnfrsf 12a	2.56	0.00	A_51_P131408	NM_013749
integrin beta 2	Itgb2	2.56	0.67	A_51_P262208	NM_008404
kinesin family member 22	Kif22	2.56	0.24	A_51_P493467	NM_145588
RIKEN cDNA B830017H08 gene	B8300 17H08 Rik	2.55	0.28	A_52_P131249	NM_00100279 0
endothelin receptor type B	Ednrb	2.55	0.92	A_52_P577662	NM_007904
myosin IF	Myo1f	2.52	0.28	A_52_P113190	NM_053214
RNA polymerase II associated protein 3; predicted gene 5697	D15Ert d682e	2.52	0.80	A_51_P354154	NM_028003
filamin, alpha	Flna	2.51	0.40	A_51_P151828	BC038478
chromobox homolog 6; neuronal pentraxin receptor; Cbx6-Nptxr readthrough transcripts	Cbx6	2.51	0.40	A_51_P391764	NM_028763
cell growth regulator with EF	Cgref1	2.50	0.18	A_51_P372550	BC023116

hand domain 1					
WW domain binding protein 5	Wbp5	2.50	0.00	A_51_P139848	NM_011712
prominin 1	Prom1	2.49	0.24	A_51_P414072	NM_008935
brain glycogen phosphorylase	Pygb	2.49	0.00	A_52_P350664	NM_153781
inhibitor of DNA binding 1	Id1	2.49	0.55	A_51_P385786	NM_010495
RIKEN cDNA 2810433K01 gene	28104 33K01 Rik	2.48	0.28	A_52_P139650	NM_025581
ATPase, Ca++ transporting, plasma membrane 2	Atp2b 2	2.48	0.40	A_51_P256384	NM_009723
retinol dehydrogenase 5	Rdh5	2.47	0.00	A_51_P479618	NM_134006
small nucleolar RNA, C/D box 123	06100 07N19 Rik	2.47	0.28	A_52_P670812	AK002304
apolipoprotein A-IV	Apoa4	2.47	0.80	A_51_P327491	NM_007468
peptidylprolyl isomerase C	Ppic	2.47	0.28	A_51_P161086	NM_008908
predicted gene 6665; glutathione S-transferase, mu 2	Gstm2	2.46	0.24	A_51_P284486	NM_008183
FK506 binding protein 10	Fkbp1 0	2.46	0.28	A_51_P216965	NM_010221
nodal	Nodal	2.45	0.28	A_52_P633560	X70514
renin binding protein	Renbp	2.45	0.28	A_51_P123765	NM_023132
apelin	Apln	2.44	0.28	A_51_P209327	NM_013912
leupaxin	Lpxn	2.44	0.55	A_52_P577748	NM_134152
keratinocyte associated protein 3	Krtcap 3	2.43	0.00	A_51_P476559	NM_027221
C1q and tumor necrosis factor related protein 6	C1qtnf 6	2.43	0.28	A_52_P405177	NM_028331
signal peptide, CUB domain, EGF-like 1	Scube1	2.42	0.00	A_51_P447595	NM_022723
thrombospondin 2	Thbs2	2.42	0.00	A_51_P461877	NM_011581
solute carrier family 15, member 3	Slc15a 3	2.42	0.67	A_52_P467389	NM_023044
retinol binding protein 1, cellular	Rbp1	2.41	0.24	A_51_P423484	NM_011254
histone cluster 1, H4k; histone cluster 1, H4m; histone cluster 4, H4; similar to germinal histone H4 gene; histone cluster 1, H4h; histone cluster 1, H4j; histone cluster 1, H4i; histone cluster 1, H4d; histone cluster 1, H4c; histone cluster 1, H4f; histone cluster 1, H4b; histone cluster 1, H4a;	Hist1h 4i	2.41	0.28	A_51_P505521	NM_175656

histone cluster 2, H4; similar to histone H4					
RIKEN cDNA C430004E15 gene	C430004E15 Rik	2.41	0.24	A_51_P176661	NM_175286
mucin 6, gastric	Muc6	2.41	0.30	A_51_P256407	NM_181729
similar to CLM3; CMRF-35-like molecule 3	Clm3	2.40	0.28	A_52_P275786	NM_199201
histone cluster 2, H3b; histone cluster 1, H3f; histone cluster 1, H3e; histone cluster 2, H3c1; histone cluster 1, H3d; histone cluster 1, H3c; histone cluster 1, H3b; histone cluster 2, H3c2; histone cluster 2, H2aa1; histone cluster 2, H2aa2	Hist2h2aa1	2.40	0.00	A_52_P64609	NM_013549
Rho, GDP dissociation inhibitor (GDI) beta	Arhgdib	2.40	0.44	A_52_P515247	NM_007486
cathepsin B	Ctsb	2.40	0.28	A_52_P433889	NM_007798
retinoblastoma-like 1 (p107)	Rbl1	2.39	0.00	A_51_P286665	NM_011249
pleckstrin homology domain containing, family O member 1	Plekho1	2.39	0.67	A_51_P509971	NM_023320
expressed sequence AW146242	AW146242	2.39	0.28	A_51_P338040	NM_146168
integrin alpha 6	Itga6	2.38	0.18	A_52_P81270	NM_008397
nestin	Nes	2.38	0.00	A_51_P452323	NM_016701
YdjC homolog (bacterial)	1810015A11Rik	2.38	0.28	A_52_P162298	NM_026940
pleckstrin homology domain containing, family O member 2	Plekhq1	2.38	0.28	A_51_P293982	NM_153119
hematopoietic cell signal transducer	Hcst	2.38	0.40	A_52_P170188	NM_011827
ubiquitin-like, containing PHD and RING finger domains, 1; predicted gene 5648; similar to nuclear zinc finger protein Np95	Uhrf1	2.37	0.00	A_51_P491742	NM_010931
platelet endothelial aggregation receptor 1	3110045G13Rik	2.37	0.28	A_52_P278295	NM_028460
follistatin-like 1	Fstl1	2.37	0.44	A_51_P215106	NM_008047
predicted gene 5353; immunoglobulin heavy chain (J558 family); similar to Ig heavy chain V region 108A precursor; similar to Ig heavy	Igh-VJ558	2.37	0.28	A_51_P509679	BC004786

chain V-I region V35 precursor; predicted gene 900; immunoglobulin heavy chain complex; similar to Ig H-chain V-JH1-region; immunoglobulin heavy variable V1-31; immunoglobulin heavy chain 2 (serum IgA)					
angiopoietin 2	Angpt2	2.36	0.28	A_51_P201982	NM_007426
tandem C2 domains, nuclear	Mtac2d1	2.36	0.30	A_51_P161410	NM_028924
solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	Slc13a3	2.36	0.44	A_51_P233768	NM_054055
protocadherin gamma subfamily A, 7	Pcdhga7	2.35	0.44	A_51_P474518	NM_033590
membrane protein, palmitoylated	Mpp1	2.35	0.28	A_51_P124568	NM_008621
echinoderm microtubule associated protein like 1; similar to echinoderm microtubule associated protein like 1	Eml1	2.35	0.55	A_51_P421279	NM_001043335
tetraspanin 6	Tspan6	2.35	0.40	A_51_P473272	NM_019656
solute carrier family 38, member 1	Slc38a1	2.34	0.28	A_51_P133005	AK162429
non-SMC condensin I complex, subunit H	Brrn1	2.34	0.13	A_52_P363039	NM_144818
histone cluster 1, H2aa	Hist1h2aa	2.34	0.80	A_51_P405773	NM_175658
G protein-coupled receptor 120	Gpr120	2.33	0.18	A_52_P503663	NM_181748
transmembrane protein 88	Tmem88	2.33	0.40	A_52_P209484	NM_025915
minichromosome maintenance deficient 3 (S. cerevisiae)	Mcm3	2.33	0.24	A_52_P364776	NM_008563
collectin sub-family member 10	Colec10	2.33	0.92	A_51_P144160	NM_173422
C-type lectin domain family 4, member d	Clec4d	2.33	0.92	A_51_P383032	NM_010819
embigin	Emb	2.32	0.30	A_51_P382849	NM_010330
thioredoxin-related transmembrane protein 4	Txndc13	2.31	0.92	A_51_P319379	BC054558
mitogen-activated protein kinase kinase kinase kinase 1	Map4k1	2.31	0.44	A_52_P552589	NM_008279
chemokine-like factor	Cklf	2.30	0.40	A_51_P394715	NM_029295
histone cluster 2, H2ac	Hist2h	2.30	0.00	A_52_P340480	NM_175662

	2ac				
retinoic acid early transcript 1E; retinoic acid early transcript beta; retinoic acid early transcript 1, alpha; retinoic acid early transcript delta; retinoic acid early transcript gamma	Raet1a	2.30	0.40	A_51_P256766	NM_009016
similar to spermidine/spermine N1-acetyltransferase; predicted gene 5552; spermidine/spermine N1-acetyl transferase 1	Sat1	2.30	0.28	A_51_P348494	NM_009121
oligophrenin 1	Ophn1	2.29	0.55	A_51_P161724	NM_052976
annexin A5	Anxa5	2.29	0.28	A_51_P426754	NM_009673
Fanconi anemia, complementation group I	BC025462	2.29	0.00	A_51_P441843	NM_145946
topoisomerase (DNA) II alpha	Top2a	2.29	0.00	A_51_P252157	NM_011623
solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	Slc1a4	2.29	0.00	A_52_P273098	NM_018861
cadherin 1	Cdh1	2.29	0.28	A_51_P137336	NM_009864
WAP four-disulfide core domain 15B	Wfdc15	2.29	0.28	A_51_P462708	NM_138685
collagen, type VI, alpha 2	Col6a2	2.29	0.55	A_51_P279639	NM_146007
IQ motif containing GTPase activating protein 3	Iqgap3	2.28	0.00	A_52_P588881	BC068159
protein phosphatase 1, regulatory subunit 9B	Ppp1r9b	2.28	0.30	A_51_P402484	NM_172261
similar to cytoplasmic dynein light chain 1; predicted gene 11582; dynein light chain LC8-type 1; predicted gene 6788	Dynll1	2.28	0.28	A_51_P414518	NM_019682
chemokine (C-X-C motif) receptor 4	Cxcr4	2.28	0.55	A_52_P585124	NM_009911
catechol-O-methyltransferase domain containing 1	Comtd1	2.27	0.24	A_52_P469381	NM_026965
similar to Saccharopine dehydrogenase (putative); saccharopine dehydrogenase (putative)	Sccpdh	2.27	0.28	A_51_P162773	NM_178653
transcription elongation factor A (SII)-like 8; similar to transcription elongation factor A (SII)-like 8	Tceal8	2.27	0.28	A_51_P135379	NM_025703
complement component 3a receptor 1	C3ar1	2.26	0.28	A_51_P282557	NM_009779
transmembrane protein 86A	Tmem	2.26	0.18	A_51_P314285	NM_026436

	86a				
flavin containing monooxygenase 2	Fmo2	2.26	0.55	A_51_P301998	NM_018881
retinoic acid receptor, beta	Rarb	2.26	0.40	A_51_P202440	NM_011243
intercellular adhesion molecule 2	Icam2	2.25	0.28	A_51_P267754	NM_010494
	90306				
RIKEN cDNA 9030625A04 gene	25A04 Rik	2.25	0.24	A_51_P427171	NM_172488
cytokine receptor-like factor 1	Crlf1	2.24	0.55	A_51_P156108	NM_018827
peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae)	Ptrh1	2.24	0.28	A_52_P605812	NM_178595
guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2	Gngt2	2.23	0.80	A_52_P44824	NM_023121
	12000				
RIKEN cDNA 1200009F10 gene	09F10 Rik	2.22	0.28	A_52_P417694	NM_027078
acyl-CoA thioesterase 9	Acot9	2.22	0.92	A_52_P392674	NM_019736
SEC14 and spectrin domains 1; predicted gene 9165	Sestd1	2.22	0.24	A_51_P349166	NM_175465
coiled-coil domain containing 120	Ccdc1 20	2.22	0.28	A_51_P159610	NM_207202
fidgetin-like 1	Fignl1	2.22	0.28	A_52_P148553	NM_021891
amyloid beta (A4) precursor-like protein 1	Aplp1	2.21	0.28	A_51_P432380	NM_007467
serine/threonine kinase 10	Stk10	2.21	0.44	A_51_P192130	NM_009288
insulin-like growth factor binding protein 3	Igfbp3	2.21	0.28	A_52_P253179	BC058261
epithelial membrane protein 3	Emp3	2.20	0.28	A_51_P446510	NM_010129
pyrroline-5-carboxylate reductase family, member 2	Pycr2	2.20	0.18	A_51_P249051	NM_133705
RNA component of mitochondrial RNAase P	Rmrp	2.20	0.44	A_52_P2670	NR_001460
histone cluster 1, H4k; histone cluster 1, H4m; histone cluster 4, H4; similar to germinal histone H4 gene; histone cluster 1, H4h; histone cluster 1, H4j; histone cluster 1, H4i; histone cluster 1, H4d; histone cluster 1, H4c; histone cluster 1, H4f; histone cluster 1, H4b; histone cluster 1, H4a; histone cluster 2, H4; similar to histone H4	Hist1h 4a	2.19	0.28	A_51_P412050	NM_178192

microtubule associated monoxygenase, calponin and LIM domain containing 1	Mical1	2.19	0.40	A_51_P356760	NM_138315
twinfilin, actin-binding protein, homolog 2 (Drosophila)	Ptk9l	2.19	0.30	A_51_P280304	NM_011876
Hspb associated protein 1	Hspbap1	2.19	0.00	A_52_P43994	NM_175111
GATS protein-like 2	Gats	2.18	0.28	A_52_P89267	BC026208
neutrophil cytosolic factor 4	Ncf4	2.18	0.28	A_51_P377452	NM_008677
major facilitator superfamily domain containing 7C	BC011209	2.18	0.55	A_51_P386899	NM_145447
interleukin 1 receptor antagonist	Il1rn	2.18	0.28	A_52_P431159	NM_031167
histone cluster 1, H2ad; histone cluster 1, H2ae; histone cluster 1, H2ag; histone cluster 1, H2ah; histone cluster 1, H2ai; similar to histone 2a; histone cluster 1, H2an; histone cluster 1, H2ao; histone cluster 1, H2ac; histone cluster 1, H2ab	Hist1h2ai	2.18	0.00	A_52_P651235	NM_178182
predicted gene 8697; similar to large subunit ribosomal protein L36a; predicted gene 11970; predicted gene 10077; similar to ribosomal protein L36a; predicted gene 2718; predicted gene 10316; predicted gene 8001; predicted gene 6525; predicted gene 9409; ribosomal protein L36A; ribosomal protein L36A-like	Rpl36a	2.17	0.55	A_52_P197926	NM_019865
glycogenin	Gyg	2.17	0.30	A_51_P240019	NM_013755
plasminogen activator, urokinase receptor	Plaur	2.17	0.30	A_52_P681310	NM_011113
non-SMC condensin I complex, subunit G	5730507H05Rik	2.16	0.28	A_52_P324584	AJ237585
annexin A13	Anxa13	2.16	0.18	A_51_P296737	NM_027211
predicted gene, EG240055	C230078M08Rik	2.16	0.28	A_51_P232868	NM_176995
solute carrier family 6 (neurotransmitter transporter, creatine), member 8	Slc6a8	2.16	0.18	A_51_P450829	NM_133987
RIKEN cDNA 1810011H11	1810011H11	2.16	0.80	A_52_P308413	AK007434

gene	11H11 Rik				
	22104 10P13				
zinc finger protein 84	Rik	2.16	0.55	A_51_P128775	AK008890
elastin	Eln	2.16	0.00	A_52_P609972	NM_007925
solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24	Slc25a 24	2.16	0.80	A_52_P515057	NM_172685
protocadherin 20	Pcdh2 0	2.16	0.80	A_52_P250400	NM_178685
inter-alpha (globulin) inhibitor H5	Itih5	2.15	0.28	A_51_P364250	NM_172471
cyclin-dependent kinase inhibitor 1A (P21)	Cdkn1 a	2.14	0.28	A_51_P363947	NM_007669
predicted gene 13160; predicted gene 8681; predicted gene 13237; predicted gene 4169; predicted gene 8284; similar to High mobility group box 2; predicted gene 13167; high mobility group box 2; predicted gene 13232	Hmgb 2	2.14	0.28	A_52_P485417	NM_008252
microrchidia 4	Morc4	2.14	0.28	A_52_P147816	NM_029413
mitogen-activated protein kinase 7	Mapk7	2.14	0.28	A_51_P359018	NM_011841
transmembrane protein 45a	Tmem 45a	2.14	0.28	A_51_P288876	NM_019631
ATP-binding cassette, sub-family G (WHITE), member 1	Abcg1	2.13	0.30	A_51_P222467	NM_009593
bicaudal C homolog 1 (Drosophila)	Bicc1	2.13	0.40	A_52_P867663	AK029601
solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	Slc7a8	2.13	0.80	A_51_P112734	NM_016972
RIKEN cDNA E130119H09 gene	E1301 19H09 Rik	2.12	0.80	A_51_P441745	AK021396
DNA-damage-inducible transcript 4-like	Ddit4l	2.12	0.18	A_52_P541752	NM_030143
predicted gene 11942; predicted gene 13777; predicted gene 10073; ribosomal protein, large, P1	LOC2 79067	2.12	0.67	A_52_P84803	XM_205095
Shc SH2-domain binding protein 1	Shcbp 1	2.12	0.44	A_51_P204402	NM_011369
ADP-ribosylation factor-like	Arl2bp	2.12	0.28	A_51_P396752	NM_024191

2 binding protein					
mitogen-activated protein kinase kinase kinase kinase 4	Map4k4	2.12	0.18	A_51_P268053	NM_008696
poliovirus receptor	Pvr	2.12	0.24	A_52_P162695	NM_027514
protein kinase, membrane associated tyrosine/threonine 1	Pkmyt1	2.11	0.00	A_51_P312360	NM_023058
predicted gene 5366; tubulin, alpha 3B; tubulin, alpha 3A	Tuba3	2.11	0.28	A_51_P145404	NM_009446
unc-119 homolog (C. elegans)	Unc119	2.11	0.00	A_51_P201638	NM_011676
CD53 antigen	Cd53	2.11	0.28	A_51_P337675	NM_007651
procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	Plod2	2.11	0.00	A_51_P396570	NM_011961
CD9 antigen	Cd9	2.11	0.30	A_51_P320852	NM_007657
nudix (nucleoside diphosphate linked moiety X)-type motif 18	Nudt18	2.11	0.30	A_52_P492601	NM_153136
roundabout homolog 1 (Drosophila)	Robo1	2.10	0.00	A_51_P174314	NM_019413
CDC42 effector protein (Rho GTPase binding) 2	Cdc42ep2	2.10	0.30	A_52_P155554	NM_026772
tetratricopeptide repeat domain 9B	Ttc9b	2.10	0.44	A_51_P358894	BC089566
immunoglobulin-like domain containing receptor 2	D1Ertd471e	2.10	0.24	A_51_P452533	BC035277
calcium/calmodulin-dependent protein kinase II inhibitor 2	Camk2n2	2.10	0.40	A_51_P355151	AK013788
four and a half LIM domains 1	Fhl1	2.10	0.92	A_51_P335000	NM_010211
RIKEN cDNA 5730410E15 gene	5730410E15Rik	2.10	0.28	A_52_P424308	NM_178765
fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	Fscn1	2.09	0.28	A_51_P366061	NM_007984
vesicle amine transport protein 1 homolog (T californica)	Vat1	2.09	0.28	A_52_P79639	NM_012037
RIKEN cDNA 1200009I06 gene	1200009I06Rik	2.09	0.30	A_51_P204486	NM_028807
dynein cytoplasmic 2 light intermediate chain 1	Dync2li1	2.09	0.18	A_51_P472481	NM_172256
surfactant associated protein A1	Sftpa1	2.09	0.28	A_52_P24439	NM_023134
mannoside acetylglucosaminyltransferase 4, isoenzyme B	Mgat4b	2.08	0.24	A_51_P268033	BC026638

phosphoprotein enriched in astrocytes 15A	Pea15	2.08	0.92	A_51_P495540	NM_011063
cytoskeleton-associated protein 4	Ckap4	2.08	0.30	A_52_P32121	NM_175451
forkhead box M1; RIKEN cDNA 4933413G19 gene	Foxm1	2.08	0.28	A_52_P28806	NM_008021
ATPase, H+ transporting, lysosomal V0 subunit E2	Atp6v0e2	2.08	0.28	A_51_P212030	NM_133764
splA/ryanodine receptor domain and SOCS box containing 4	Spsb4	2.08	0.00	A_52_P659312	NM_145134
transmembrane channel-like gene family 8	Tmc8	2.08	0.67	A_52_P205854	NM_181856
monoamine oxidase A	Maoa	2.08	0.00	A_51_P125355	NM_173740
CAAX box 1 homolog A (human); CAAX box 1 homolog B (human); similar to mammalian retrotransposon derived 8b	Cxx1b	2.07	0.18	A_51_P293665	AK003646
sperm autoantigenic protein 17	Spa17	2.06	0.28	A_51_P504065	NM_011449
glucuronidase, beta	Gusb	2.06	0.00	A_51_P211491	NM_010368
chemokine (C-X-C motif) ligand 14	Cxcl14	2.06	0.92	A_51_P209183	NM_019568
zinc finger protein 385A	Zfp385	2.06	0.44	A_51_P152032	NM_013866
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	6330505F04Rik	2.06	0.18	A_51_P280043	BC051161
moesin	Msn	2.06	0.80	A_52_P558411	NM_010833
filamin binding LIM protein 1	Fblim1	2.06	0.28	A_52_P342443	NM_133754
RasGEF domain family, member 1B; hypothetical protein LOC100044232	Rasgef1b	2.06	0.55	A_52_P188827	NM_181318
aldo-keto reductase family 1, member B3 (aldose reductase)	Akr1b3	2.06	0.28	A_52_P346706	NM_009658
EGF-like domain 7	Egfl7	2.05	0.28	A_52_P15122	NM_178444
zinc finger, CCHC domain containing 3	Zcchc3	2.05	0.28	A_51_P479132	NM_175126
transmembrane protein 159	Tmem159	2.05	0.00	A_51_P435348	NM_145586
neutrophil cytosolic factor 2; neutrophil cytosolic factor 2 related sequence	Ncf2	2.04	0.55	A_51_P402909	NM_010877
RIKEN cDNA 5730528L13 gene	5730528L13Rik	2.04	0.00	A_52_P400584	NM_028137
solute carrier family 39 (metal ion transporter), member 6	Slc39a6	2.04	0.92	A_51_P259214	NM_139143

microtubule-associated protein, RP/EB family, member 2	Mapre 2	2.04	0.40	A_51_P438149	NM_153058
DNA methyltransferase 3A	Dnmt3 a	2.03	0.28	A_52_P169048	NM_007872
carbonic anhydrase 2	Car2	2.03	0.67	A_51_P455647	NM_009801
transmembrane 6 superfamily member 1	Tm6sf 1	2.03	0.92	A_51_P401683	NM_145375
amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 4	Als2cr 4	2.03	0.40	A_51_P243168	NM_00103781 2
cytidine 5'-triphosphate synthase 2	Ctps2	2.03	0.30	A_51_P485542	NM_018737
schlafen 2	Slfn2	2.02	0.92	A_51_P423578	NM_011408
thrombospondin, type I, domain 1	Thsd1	2.02	0.28	A_51_P427516	NM_019576
nurim (nuclear envelope membrane protein)	Nrm	2.02	0.28	A_51_P379775	NM_134122
desmoglein 1 gamma	Dsg1c	2.02	0.28	A_52_P102432	AK034104
cysteine and glycine-rich protein 1	Csrp1	2.02	0.80	A_52_P209184	NM_007791
lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acyltransferase)	Lrat	2.01	0.28	A_52_P669005	NM_023624
tectonin beta-propeller repeat containing 1	22100 10N04 Rik	2.01	0.18	A_51_P240693	BC046968
similar to Ena-VASP-like; Ena-vasodilator stimulated phosphoprotein	Evl	2.01	0.80	A_51_P433467	NM_007965
cDNA sequence BC048507	BC048 507	2.00	0.28	A_51_P289160	BC048507
glycosyltransferase-like domain containing 1	Gtdc1	2.00	0.80	A_52_P559877	NM_172662
ADP-ribosylarginine hydrolase	Adprh	2.00	0.92	A_52_P504478	NM_007414
E2F transcription factor 2	E2f2	2.00	0.18	A_51_P368009	NM_177733
RIKEN cDNA E130016E03 gene	E1300 16E03 Rik	2.00	0.40	A_52_P502771	NM_00103955 6
histone cluster 1, H4k; histone cluster 1, H4m; histone cluster 4, H4; similar to germinal histone H4 gene; histone cluster 1, H4h; histone cluster 1, H4j; histone cluster 1, H4i; histone cluster 1, H4d; histone cluster 1, H4c; histone cluster 1, H4f;	Hist4h 4	2.00	0.67	A_52_P299703	NM_175652

histone cluster 1, H4b; histone cluster 1, H4a; histone cluster 2, H4; similar to histone H4	Hist1h2ak	2.00	0.28	A_52_P498208	NM_178183
early growth response 2	Egr2	1.99	0.28	A_51_P173043	NM_010118
FYVE, RhoGEF and PH domain containing 1	Fgd1	1.99	0.30	A_52_P428521	NM_008001
H2A histone family, member X	H2afx	1.99	0.18	A_51_P245275	NM_010436
phosphodiesterase 4B, cAMP specific	Pde4b	1.99	0.28	A_51_P512340	NM_019840
heme binding protein 2	Hebp2	1.99	0.28	A_51_P159612	NM_019487
stabilin 1	Stab1	1.99	0.44	A_51_P232371	NM_138672
similar to nuclear myosin I beta; myosin IC	Myo1c	1.98	0.28	A_52_P241519	NM_008659
polymerase (DNA directed), delta 1, catalytic subunit	Pold1	1.98	0.28	A_51_P367125	NM_011131
sorting nexin 20	9130017C17Rik	1.98	0.55	A_51_P309158	NM_027840
RIKEN cDNA 4632428N05 gene	4632428N05Rik	1.98	0.28	A_51_P372992	NM_028732
prostate transmembrane protein, androgen induced 1; similar to Nedd4 WW binding protein 4	LOC676013	1.98	0.28	A_51_P449777	XM_986662
similar to WD repeat domain 62; WD repeat domain 62	Wdr62	1.97	0.67	A_51_P336114	BC054747
myosin IG	Myo1g	1.97	0.92	A_51_P333253	NM_178440
RIKEN cDNA 2010317E24 gene	2010317E24Rik	1.97	0.18	A_51_P472217	BC070477
glycolipid transfer protein	Gltp	1.97	0.28	A_52_P436700	NM_019821
SCO-spondin	Sspo	1.97	0.44	A_51_P104710	NM_173428
villin-like	Vill	1.96	0.00	A_51_P417077	NM_011700
prostaglandin reductase 1	Ltb4dh	1.96	0.28	A_51_P444437	NM_025968
serine carboxypeptidase 1	Scpep1	1.96	0.28	A_51_P118417	NM_029023
integrin alpha M	Itgam	1.96	0.80	A_52_P669155	AK170324
trafficking protein particle complex 6A	Trappc6a	1.96	0.44	A_51_P485683	NM_025960
meteorin, glial cell differentiation regulator-like	Metrnl	1.96	0.67	A_52_P355084	NM_144797
similar to growth arrest-specific 2 like 3; growth arrest-specific 2 like 3	Gas2l3	1.96	0.28	A_52_P335354	AK018456
chromatin assembly factor 1, subunit A (p150)	Chaf1a	1.95	0.28	A_51_P196973	NM_013733

basal cell adhesion molecule	Bcam	1.95	0.80	A_51_P173601	NM_020486
immediate early response 5	Ier5	1.95	0.28	A_51_P456941	NM_010500
transgelin	Tagln	1.95	0.80	A_52_P517683	NM_011526
legumain	Lgmn	1.95	0.92	A_51_P110576	NM_011175
cDNA sequence BC020535	BC020535	1.95	0.30	A_51_P520802	NM_145536
discoidin, CUB and LCCL domain containing 1	Dcbld1	1.94	0.55	A_52_P158710	BC026771
sodium channel, voltage-gated, type II, beta	Scn2b	1.94	0.44	A_51_P212741	NM_001014761
adenosine A1 receptor	Adora1	1.94	0.92	A_52_P661412	NM_001008533
synaptonemal complex central element protein 2	Syce2	1.94	0.28	A_51_P273538	NM_027954
lysosomal-associated protein transmembrane 5	Laptm5	1.93	0.92	A_51_P401668	NM_010686
tweety homolog 3 (Drosophila)	Ttyh3	1.93	0.28	A_52_P196105	NM_175274
collagen, type IV, alpha 5	Col4a5	1.93	0.30	A_51_P216005	NM_007736
ribonucleotide reductase M1	Rrm1	1.93	0.40	A_51_P502082	NM_009103
family with sequence similarity 167, member B	BC030183	1.93	0.92	A_52_P326657	NM_182783
parvin, gamma	Parvg	1.92	0.67	A_52_P531651	NM_022321
melanoma antigen, family H, 1	Mageh1	1.92	0.28	A_51_P497692	NM_023788
immunoglobulin superfamily, member 8	Igsf8	1.92	0.00	A_51_P442788	NM_080419
olfactomedin-like 3	Olfml3	1.92	0.28	A_51_P191782	NM_133859
myosin, heavy polypeptide 9, non-muscle	Myh9	1.92	0.28	A_51_P313711	NM_022410
EH domain binding protein 1-like 1	G430002G23Rik	1.92	0.28	A_51_P222475	NM_053252
methionine sulfoxide reductase B2	Msrb2	1.92	0.55	A_51_P464911	NM_029619
SFFV proviral integration 1	Sfpi1	1.92	0.55	A_52_P498086	NM_011355
proline/serine-rich coiled-coil 1	Psrc1	1.92	0.24	A_52_P493112	NM_019976
transcriptional adaptor 2 (ADA2 homolog, yeast)-like	Tada2l	1.92	0.92	A_51_P371522	NM_172562
aldehyde dehydrogenase 3 family, member B1	Aldh3b1	1.91	0.92	A_51_P506356	NM_026316
cytochrome c oxidase, subunit VIIa 2	Cox7a2	1.91	0.92	A_52_P37894	NM_009945
collagen, type VIII, alpha 1	Col8a1	1.91	0.28	A_52_P282058	NM_007739
actin related protein 2/3 complex, subunit 1B	Arpc1b	1.91	0.28	A_51_P331279	NM_023142
ring finger protein 145	3732413I11Rik	1.91	0.00	A_51_P331870	NM_028862

transferrin receptor	Tfrc	1.91	0.80	A_52_P228236	NM_011638
complement component 5a receptor 1	C5ar1	1.90	0.67	A_51_P279542	NM_007577
MANSC domain containing 1	Mansc 1	1.90	0.40	A_51_P274124	NM_026345
CD19 antigen	Cd19	1.90	0.40	A_51_P318966	NM_009844
sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	Svep1	1.90	0.28	A_52_P319326	NM_022814
cystatin B	Cstb	1.90	0.44	A_51_P114910	NM_007793
interferon gamma receptor 1	Ifngr1	1.90	0.30	A_51_P391445	NM_010511
tyrosine kinase with immunoglobulin-like and EGF-like domains 1	Tie1	1.90	0.28	A_51_P177171	NM_011587
family with sequence similarity 65, member C	23100 33K02 Rik	1.90	0.30	A_51_P171180	AK009597
LAG1 homolog, ceramide synthase 6	Lass6	1.90	0.28	A_52_P323111	AK136463
similar to melanoma antigen family D, 2; melanoma antigen, family D, 2	Maged 2	1.90	0.55	A_51_P121635	NM_030700
myotubularin related protein 11	Mtmr1 1	1.89	0.00	A_52_P350537	NM_181409
predicted gene 5076	LOC2 80121	1.89	0.44	A_52_P151378	XM_207492
paired immunoglobin-like type 2 receptor beta 2; zinc finger, CW type with PWWP domain 1	Zcwp w1	1.89	0.40	A_52_P154026	NM_00100542 6
echinoderm microtubule associated protein like 2	Eml2	1.89	0.00	A_51_P428013	AK005562
zinc finger protein 385A	Zfp385	1.89	0.30	A_52_P29392	BC017644
armadillo repeat containing, X-linked 3; hypothetical protein LOC100044266; predicted gene 9299	Armcx 3	1.89	0.30	A_52_P423380	NM_027870
BUD13 homolog (yeast)	Bud13	1.89	0.28	A_51_P159284	NM_146000
ecotropic viral integration site 2b	Evi2b	1.89	0.67	A_51_P383822	NM_146023
CAP-GLY domain containing linker protein 2	Cyln2	1.89	0.18	A_52_P360112	NM_009990
lamin B receptor	Lbr	1.89	0.55	A_51_P201137	NM_133815
C-type lectin domain family 5, member a	Clec5a	1.88	0.67	A_52_P218058	NM_00103860 4
tryptophan rich basic protein	Wrb	1.88	0.18	A_52_P418602	NM_207301
tumor necrosis factor receptor superfamily, member 21	Tnfrsf 21	1.88	0.00	A_51_P168762	NM_178589
predicted gene 5521; similar to mortality factor 4 like 2;	Morf4l 2	1.88	0.67	A_51_P416387	NM_019768

mortality factor 4 like 2					
solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	Slc3a2	1.88	0.28	A_51_P472901	NM_008577
dedicator of cytokinesis 7	Dock7	1.88	0.30	A_51_P141110	NM_026082
transmembrane protein 51	Tmem 51	1.88	0.44	A_51_P125842	NM_145402
chromatin assembly factor 1, subunit B (p60)	Chaf1b	1.88	0.28	A_51_P367310	NM_028083
hematopoietic cell specific Lyn substrate 1	Hcls1	1.88	0.92	A_51_P297679	NM_008225
mannosidase 2, alpha B2	Man2b 2	1.88	0.28	A_51_P311785	NM_008550
single immunoglobulin and toll-interleukin 1 receptor (TIR) domain	Sigirr	1.88	0.44	A_51_P145520	NM_023059
solute carrier family 38, member 1	Slc38a 1	1.88	0.00	A_52_P232648	NM_134086
CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae)	Chtf18	1.88	0.28	A_51_P208680	NM_145409
benzodiazapine receptor associated protein 1	Bzrap1	1.87	0.18	A_51_P503993	NM_172449
RIKEN cDNA 5530400B01 gene	55304 00B01 Rik	1.87	0.28	A_51_P114314	AK017419
RIKEN cDNA B930041F14 gene	B9300 41F14 Rik	1.87	0.55	A_51_P381086	NM_178699
protein tyrosine phosphatase, receptor type, S	Ptprs	1.87	0.28	A_51_P419726	NM_011218
GRAM domain containing 1B	Gramd 1b	1.87	0.92	A_51_P221008	BC070451
c-fos induced growth factor	Figf	1.87	0.28	A_51_P117739	NM_010216
RIKEN cDNA 6330503K22 gene	63305 03K22 Rik	1.87	0.30	A_52_P344160	NM_182995
leucine rich repeat containing 51	Lrrc51	1.87	0.00	A_52_P319137	AK005758
thymidylate synthase, pseudogene	Tyms-ps	1.87	0.55	A_51_P351363	M30774
tubulointerstitial nephritis antigen-like 1	Tinagl	1.87	0.55	A_52_P418489	NM_023476
insulin-like growth factor binding protein 3	Igfbp3	1.86	0.28	A_51_P228472	NM_008343
cDNA sequence BC017612	BC017 612	1.86	0.40	A_51_P437289	NM_133214
chloride intracellular channel 1	Clic1	1.86	0.55	A_51_P357341	NM_033444
Fanconi anemia,	Fancb	1.86	0.67	A_52_P208613	NM_175027

complementation group B					
ATP-binding cassette, sub-family A (ABC1), member 1	Abca1	1.86	0.92	A_52_P665675	NM_013454
cytohesin 4	Pscd4	1.86	0.80	A_52_P271099	NM_028195
IQ motif containing GTPase activating protein 1	Iqgap1	1.86	0.28	A_52_P630828	NM_016721
selenoprotein N, 1	Sepn1	1.86	0.28	A_51_P358152	NM_029100
tumor necrosis factor, alpha-induced protein 2	Tnfaip 2	1.86	0.92	A_51_P364485	NM_009396
epithelial membrane protein 2	Emp2	1.86	0.18	A_51_P437240	NM_007929
receptor accessory protein 4	Reep4	1.85	0.28	A_51_P420655	NM_180588
SEC14 and spectrin domains 1; predicted gene 9165	Sestd1	1.85	0.28	A_52_P408237	AK044401
glutaminase	Gls	1.85	0.80	A_52_P665979	NM_00111338 3
minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)	Mcm5	1.85	0.40	A_51_P190111	NM_008566
killer cell lectin-like receptor, subfamily D, member 1	Klrd1	1.85	0.92	A_51_P280947	NM_010654
centrosomal protein 72	49334 40J22 Rik	1.85	0.28	A_51_P380587	NM_028959
predicted gene 13611; ribosomal protein L36; similar to Rpl36 protein; predicted gene 9437; similar to ribosomal protein L36; predicted gene 4604; predicted gene 7703; predicted gene 5614; predicted gene 9416	Rpl36	1.85	0.80	A_52_P233312	NM_018730
vomeronasal 1 receptor, E6	V1re6	1.85	0.28	A_51_P207028	NM_134195
caspase 2	Casp2	1.85	0.28	A_51_P296448	NM_007610
thymidylate synthase	Tyms	1.85	0.55	A_51_P398366	NM_021288
olfactory receptor 469	Olfr46 9	1.85	0.44	A_52_P313007	NM_146426
DNA segment, Chr 2, ERATO Doi 750, expressed	D2Ertd 750e	1.84	0.00	A_52_P595663	NM_026412
inositol 1,4,5-triphosphate receptor 3	Itpr3	1.84	0.28	A_51_P104897	NM_080553
H1 histone family, member X	H1fx	1.84	0.28	A_51_P114843	NM_198622
chromatin licensing and DNA replication factor 1	Cdt1	1.84	0.28	A_51_P133612	NM_026014
mannose receptor, C type 2	Mrc2	1.84	0.28	A_52_P424840	AK086703
transmembrane 4 superfamily member 1	Tm4sf 1	1.84	0.24	A_51_P240614	NM_008536

G protein-coupled receptor, family C, group 5, member B	Gprc5b	1.84	0.28	A_51_P173709	NM_022420
lamin B1	Lmnb1	1.84	0.28	A_51_P120717	NM_010721
corin	Corin	1.84	0.67	A_51_P135268	NM_016869
polymerase (DNA directed), epsilon	Pole	1.84	0.92	A_51_P155482	NM_011132
predicted gene 6314; RIKEN cDNA 3110003A17 gene	3110003A17 Rik	1.83	0.92	A_52_P238873	BC098509
similar to SH3-domain binding protein 1; SH3-domain binding protein 1; similar to SH3 domain-binding protein 1 (3BP-1)	Sh3bp1	1.83	0.30	A_51_P342906	NM_009164
serine (or cysteine) peptidase inhibitor, clade H, member 1	Serpinh1	1.83	0.40	A_51_P287069	NM_009825
phosphatidylinositol transfer protein, alpha	Pitpna	1.83	0.28	A_51_P466371	NM_008850
junction adhesion molecule 2	Jam2	1.83	0.80	A_51_P418375	NM_023844
ATPase family, AAA domain containing 2	Atad2	1.83	0.92	A_52_P624168	NM_027435
similar to ADP-ribosylation factor-like protein 7; ADP-ribosylation factor-like 4C	Arl4c	1.83	0.67	A_51_P289796	NM_177305
tubulin, beta 4	Tubb4	1.83	0.28	A_51_P315795	NM_009451
nei like 3 (E. coli)	Neil3	1.83	0.28	A_52_P251366	NM_146208
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	6330505F04 Rik	1.83	0.80	A_51_P337662	NM_172779
polo-like kinase 2 (Drosophila)	Plk2	1.83	0.80	A_51_P290576	NM_152804
sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	Sema5a	1.82	0.92	A_52_P409076	NM_009154
RAB31, member RAS oncogene family	Rab31	1.82	0.67	A_51_P209280	NM_133685
oligosaccharyltransferase complex subunit	2310008M10 Rik	1.82	0.30	A_52_P592951	NM_025509
midkine	Mdk	1.82	0.24	A_51_P225665	NM_010784
inhibitor of DNA binding 3	Id3	1.82	0.18	A_51_P380178	NM_008321
interleukin 7 receptor	Il7r	1.82	0.92	A_51_P196695	NM_008372
claudin 7	Cldn7	1.81	0.28	A_51_P165185	NM_016887
GINS complex subunit 2 (Psf2 homolog)	4833427B12 Rik	1.81	0.00	A_52_P381303	BC082565
Rho GDP dissociation	Arhgdi	1.81	0.30	A_52_P419405	NM_133796

inhibitor (GDI) alpha	a				
asparaginase like 1	Asrgl1	1.81	0.28	A_52_P555262	NM_025610
solute carrier family 37 (glycerol-3-phosphate transporter), member 2	Slc37a 2	1.81	0.55	A_51_P259774	NM_020258
solute carrier family 22 (organic cation transporter), member 13	Slc22a 13	1.81	0.80	A_51_P154953	NM_133980
minichromosome maintenance deficient 7 (S. cerevisiae)	Mcm7	1.81	0.92	A_51_P165704	NM_008568
adenosine monophosphate deaminase 2 (isoform L)	Ampd 2	1.81	0.00	A_51_P479769	NM_028779
myosin, light polypeptide kinase 2, skeletal muscle	Mylk2	1.80	0.92	A_52_P60074	AK079396
phospholipid scramblase 3; similar to phospholipid scramblase 3	Plscr3	1.80	0.00	A_51_P302458	NM_023564
transforming, acidic coiled-coil containing protein 3	Tacc3	1.80	0.00	A_51_P220222	NM_00104043 5
zinc finger protein 414	Zfp414	1.80	0.18	A_51_P503543	NM_026712
pleckstrin homology domain containing, family G (with RhoGef domain) member 2	Plekhg 2	1.80	0.80	A_51_P178022	NM_138752
deltex 3 homolog (Drosophila)	Dtx3	1.79	0.55	A_51_P249009	NM_030714
immunoglobulin joining chain	Igj	1.79	0.55	A_51_P150705	NM_152839
nuclear receptor coactivator 7	Ncoa7	1.79	0.40	A_52_P669471	NM_172495
six transmembrane epithelial antigen of prostate 2	Steap2	1.78	0.44	A_52_P129456	AK086787
centrin 4; predicted gene 7094	Cetn4	1.78	0.55	A_51_P108990	NM_145825
cDNA sequence BC048546	BC048 546	1.78	0.92	A_52_P173945	NM_00100117 9
flap structure specific endonuclease 1	Fen1	1.78	0.28	A_52_P502684	NM_007999
phosphatidic acid phosphatase type 2A	Ppap2a	1.78	0.92	A_51_P189104	NM_008903
myelin protein zero-like 1	Mpzl1	1.78	0.44	A_51_P228295	NM_00100188 0
EH-domain containing 4	Ehd4	1.78	0.28	A_51_P455807	NM_133838
melatonin receptor 1A	Mtnr1a	1.78	0.67	A_52_P73986	NM_008639
chemokine (C-C motif) ligand 24	Ccl24	1.78	0.28	A_51_P322640	NM_019577
MAP kinase-interacting serine/threonine kinase 2	Mknk2	1.78	0.44	A_52_P376135	NM_021462
RIKEN cDNA 2010109K11 gene		1.77	0.30	A_52_P598835	BC061478
apoptosis-inducing, TAF9-like domain 1	26100 40C18 Rik	1.77	0.00	A_51_P270519	NM_027263

megakaryocyte-associated tyrosine kinase	Matk	1.77	0.30	A_51_P399896	NM_010768
RIKEN cDNA C330027C09 gene	C3300 27C09 Rik	1.77	0.28	A_51_P499233	NM_172616
protein phosphatase 1, regulatory (inhibitor) subunit 13B	Ppp1r1 3b	1.77	0.28	A_51_P130409	NM_011625
PQ loop repeat containing	Pqlc3	1.77	0.67	A_51_P332652	NM_172574
RIKEN cDNA 2310022A10 gene	23100 22A10 Rik	1.77	0.00	A_51_P507172	NM_175107
predicted gene 9103; predicted gene 8503; similar to protein phosphatase 1, regulatory (inhibitor) subunit 14B; protein phosphatase 1, regulatory (inhibitor) subunit 14B	Ppp1r1 4b	1.77	0.24	A_51_P133037	NM_008889
numb-like	Numbl	1.77	0.28	A_51_P158355	U96441
G two S phase expressed protein 1	Gtse1	1.77	0.28	A_51_P195153	NM_013882
RIKEN cDNA 4930546H06 gene	49305 46H06 Rik	1.76	0.67	A_52_P357962	NM_029205
CD300A antigen	Cd300 a	1.76	0.80	A_52_P492142	NM_170758
RIKEN cDNA 4932415G12 gene	49324 15G12 Rik	1.76	0.40	A_51_P152479	BC067070
predicted gene 4066; smoothened homolog (Drosophila)	Smo	1.76	0.67	A_51_P258766	NM_176996
family with sequence similarity 164, member A	31100 50N22 Rik	1.76	0.28	A_52_P361993	NM_173181
proline rich 15	E1302 01N16 Rik	1.76	0.92	A_51_P508959	NM_030024
EPS8-like 1	Eps8l1	1.76	0.67	A_52_P37757	NM_026146
spectrin alpha 2	Spna2	1.75	0.28	A_51_P125866	NM_00107655 4
predicted gene 11575; predicted gene 10177; predicted gene 4184; SEC61, gamma subunit; similar to Sec61-complex gamma-subunit	Sec61g	1.75	0.92	A_51_P204390	NM_011343
angiomotin	Amot	1.75	0.28	A_51_P321385	AK129277
CD164 sialomucin-like 2	Cd164l 2	1.75	0.30	A_51_P354757	AK139809

predicted gene 1060	Gm1060	1.75	0.28	A_52_P481279	NM_001033460
solute carrier family 44, member 2	Slc44a2	1.75	0.55	A_51_P140331	NM_152808
regulator of G-protein signalling 10	Rgs10	1.75	0.92	A_51_P218774	NM_026418
CTTNBP2 N-terminal like	Cttnbp2nl	1.75	0.28	A_51_P511102	NM_030249
RIKEN cDNA 2010204K13 gene	2010204K13Rik	1.75	0.28	A_52_P155805	AK008437
grancalcin	Gca	1.74	0.28	A_52_P287456	NM_145523
RAB27A, member RAS oncogene family	Rab27a	1.74	0.28	A_52_P426740	NM_023635
expressed sequence AU040320	AU040320	1.74	0.28	A_51_P276599	NM_133886
pleckstrin homology-like domain, family B, member 1	Phldb1	1.74	0.55	A_51_P395546	NM_153537
aarF domain containing kinase 4	Adck4	1.74	0.40	A_51_P197209	NM_133770
interleukin 1 alpha	Il1a	1.74	0.92	A_52_P100926	NM_010554
similar to Small nuclear ribonucleoprotein F (snRNP-F) (Sm protein F) (Sm-F) (SmF); small nuclear ribonucleoprotein polypeptide F; predicted gene 13092	Snrpf	1.74	0.24	A_51_P255613	BC100499
centromere protein N	2610510J17Rik	1.74	0.28	A_52_P304947	NM_028131
serine (or cysteine) peptidase inhibitor, clade B, member 8	Serpinb8	1.74	0.44	A_52_P521054	NM_011459
RAP2B, member of RAS oncogene family	Rap2b	1.74	0.24	A_51_P213761	NM_028712
bone morphogenetic protein 7	Bmp7	1.74	0.28	A_51_P492366	NM_007557
solute carrier family 16 (monocarboxylic acid transporters), member 1	Slc16a1	1.74	0.80	A_51_P397363	NM_009196
tumor necrosis factor receptor superfamily, member 11a	Tnfrsf11a	1.74	0.67	A_52_P1068320	NM_009399
potassium channel tetramerisation domain containing 12	Kctd12	1.74	0.18	A_51_P371912	NM_177715
myosin IXb	Myo9b	1.73	0.67	A_51_P399985	NM_015742
RIKEN cDNA 2310051F07 gene	2310051F07Rik	1.73	0.44	A_51_P166107	AK075904
immunoglobulin heavy	Ighg1	1.73	0.92	A_52_P1054013	BC003435

constant gamma 1 (G1m marker)					
IQ motif containing E	Iqce	1.73	0.55	A_52_P465828	NM_028833
tandem C2 domains, nuclear	Mtac2d1	1.73	0.55	A_52_P448749	AK053942
SRY-box containing gene 19; SRY-box containing gene 4	Sox4	1.73	0.28	A_51_P105178	NM_009238
GPI-anchored HDL-binding protein 1	Gpihbp1	1.73	0.40	A_51_P331328	NM_026730
adenine phosphoribosyl transferase	Aprt	1.73	0.28	A_52_P594768	NM_009698
ADP-ribosylation factor-like 2 binding protein	Arl2bp	1.73	0.28	A_52_P153189	NM_024269
RIKEN cDNA 0610010O12 gene	0610010O12Rik	1.73	0.92	A_52_P227937	BC028765
CDC42 small effector 1	Cdc42se1	1.73	0.28	A_51_P512591	NM_172395
aurora kinase B	Aurkb	1.72	0.28	A_51_P415059	NM_011496
inositol (myo)-1(or 4)-monophosphatase 2	Impa2	1.72	0.40	A_51_P299287	NM_053261
rhotekin	Rtkn	1.72	0.13	A_51_P234330	NM_133641
transmembrane emp24 domain containing 3	Tmed3	1.72	0.18	A_51_P284244	NM_025360
adaptor protein complex AP-1, sigma 1	Ap1s1	1.72	0.24	A_51_P166394	NM_007457
solute carrier family 16 (monocarboxylic acid transporters), member 3	Slc16a3	1.72	0.67	A_51_P144090	NM_030696
TMF1-regulated nuclear protein 1	2300002D11Rik	1.72	0.40	A_52_P391624	BC049168
hematological and neurological expressed sequence 1; predicted gene 3687	Hn1	1.72	0.18	A_51_P247157	NM_008258
NCK associated protein 1 like	Nckap1l	1.72	0.80	A_51_P119429	NM_153505
sorting nexin 8	Snx8	1.71	0.67	A_52_P77245	NM_172277
beta-carotene 15,15'-monooxygenase	Bcmo1	1.71	0.80	A_51_P374137	NM_021486
RIKEN cDNA E330016A19 gene	E330016A19Rik	1.71	0.67	A_51_P289647	NM_173386
ubiquitin domain containing 2	9630054F20Rik	1.71	0.92	A_52_P284958	NM_173784
integral membrane protein 2C	Itm2c	1.71	0.40	A_51_P267370	NM_022417
predicted gene 7743; calmodulin 3; calmodulin 2;	Calm3	1.71	0.28	A_52_P140356	NM_007590

calmodulin 1; predicted gene 7308					
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	Nfatc4	1.71	0.28	A_52_P342159	NM_023699
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	Mllt3	1.71	0.44	A_51_P394484	NM_029931
OTU domain containing 7B	Otud7b	1.70	0.30	A_52_P623738	NM_001025613
napsin A aspartic peptidase	Napsa	1.70	0.44	A_51_P146149	NM_008437
chemokine (C-C motif) receptor 1	Ccr1	1.70	0.67	A_52_P616356	NM_009912
tubulin folding cofactor E-like	Lrrc35	1.70	0.67	A_52_P244723	NM_173038
RIKEN cDNA 5033421B08 gene	50334 21B08 Rik	1.70	0.28	A_52_P515620	AK017181
Gen homolog 1, endonuclease (Drosophila)	58304 83C08 Rik	1.70	0.80	A_52_P205951	NM_177331
myosin, light polypeptide 9, regulatory	Myl9	1.70	0.92	A_51_P308298	BC055439
polymerase (DNA directed), mu	Polm	1.70	0.28	A_51_P397493	NM_017401
paralemmin	Palm	1.70	0.44	A_52_P325444	NM_023128
ferric-chelate reductase 1	Frrs1	1.70	0.18	A_51_P440365	NM_009146
SH3/ankyrin domain gene 3	Shank3	1.70	0.55	A_51_P115626	AJ245904
sodium channel, voltage-gated, type I, beta	Scn1b	1.70	0.30	A_52_P307394	NM_011322
cellular repressor of E1A-stimulated genes 2	Creg2	1.70	0.28	A_52_P387056	NM_170597
RIKEN cDNA 2700049P18 gene	27000 49P18 Rik	1.70	0.55	A_52_P144285	NM_175382
histone cluster 3, H2a	Hist3h2a	1.70	0.40	A_52_P615375	NM_178218
DEP domain containing 1B	Depdc1b	1.69	0.28	A_51_P303749	NM_178683
MTOR associated protein, LST8 homolog (S. cerevisiae)	Gbl	1.69	0.00	A_52_P357402	NM_019988
RIKEN cDNA A830007P12 gene	A8300 07P12 Rik	1.69	0.67	A_51_P410918	NM_146115
carboxypeptidase M	Cpm	1.69	0.55	A_51_P304397	BC100404
RIKEN cDNA 6330509M05 gene	63305 09M05 Rik	1.69	0.18	A_52_P923110	AK031957

brain expressed X-linked 2	Bex2	1.69	0.24	A_51_P237668	NM_009749
unc-5 homolog B (C. elegans)	Unc5b	1.69	0.28	A_51_P294535	NM_029770
meiosis-specific nuclear structural protein 1	Mns1	1.68	0.24	A_51_P100174	NM_008613
cytidine 5'-triphosphate synthase	Ctps	1.68	0.92	A_51_P251357	NM_016748
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	Nfkbiz	1.68	0.28	A_51_P387591	NM_030612
predicted gene 7270; predicted gene 14680; spermine synthase	Sms	1.68	0.55	A_51_P457259	NM_009214
deltex 4 homolog (Drosophila)	Dtx4	1.68	0.40	A_52_P366666	NM_172442
defects in morphology 1 homolog (S. cerevisiae)	31100 37I16 Rik	1.68	0.28	A_51_P197883	NM_028457
minichromosome maintenance deficient 2 mitotin (S. cerevisiae)	Mcm2	1.68	0.44	A_51_P158210	NM_008564
ryanodine receptor 3	Ryr3	1.68	0.67	A_52_P261858	NM_177652
LEM domain containing 2	Lemd2	1.68	0.40	A_51_P251508	BC050010
dickkopf homolog 3 (Xenopus laevis)	Dkk3	1.67	0.28	A_52_P220176	NM_015814
intraflagellar transport 80 homolog (Chlamydomonas)	Ift80	1.67	0.00	A_51_P363090	NM_026641
similar to zinc finger, MYND domain containing 12; zinc finger, MYND domain containing 12	Zmynd 12	1.67	0.55	A_51_P309084	NM_00101490 0
similar to Phosphoserine aminotransferase 1; phosphoserine aminotransferase 1	Psat1	1.67	0.00	A_51_P317427	NM_177420
sorting nexin 26	Snx26	1.67	0.44	A_51_P346272	NM_178252
v-ral simian leukemia viral oncogene homolog B (ras related)	Ralb	1.67	0.44	A_52_P253004	NM_022327
transient receptor potential cation channel, subfamily M, member 4	Trpm4	1.67	0.67	A_52_P303100	NM_175130
RIKEN cDNA 2810405K02 gene	28104 05K02 Rik	1.67	0.55	A_51_P424878	NM_025582
G protein-coupled receptor 97	Gpr97	1.67	0.92	A_51_P247694	NM_173036
Rho GTPase activating protein 11A; predicted gene 4500; similar to DNA directed RNA polymerase II	Arhga p11a	1.67	0.28	A_51_P409496	NM_181416

polypeptide A					
hydroxyacylglutathione hydrolase-like	Haghl	1.67	0.28	A_51_P292073	NM_026897
similar to Tpd52 protein; tumor protein D52	Tpd52	1.66	0.80	A_51_P506792	NM_009412
similar to creatine kinase, brain; predicted gene 12892; creatine kinase, brain	Ckb	1.66	0.67	A_52_P385606	NM_021273
transmembrane protein 49	Tmem 49	1.66	0.18	A_52_P127362	NM_029478
centromere protein H	Cenph	1.66	0.28	A_51_P492830	NM_021886
spermine oxidase	Smox	1.66	0.24	A_51_P372826	NM_145533
keratin 19	Krt19	1.66	0.67	A_51_P356642	NM_008471
RIKEN cDNA E330037M01 gene	E3300 37M01 Rik	1.66	0.28	A_52_P672437	AK033305
a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 7	Adamt s7	1.66	0.40	A_51_P487244	NM_00100391 1
amidohydrolase domain containing 2	Amdh d2	1.66	0.40	A_51_P260658	NM_172935
solute carrier family 9 (sodium/hydrogen exchanger), member 7	Slc9a7	1.66	0.13	A_51_P110088	NM_177353
cyclin-dependent kinase inhibitor 2A	Cdkn2 a	1.66	0.92	A_51_P144813	NM_009877
ADP-ribosylation factor-like 6 interacting protein 5	Arl6ip 5	1.65	0.28	A_51_P259902	NM_022992
ATPase, H+ transporting, lysosomal V1 subunit G1; predicted gene 13453; predicted gene 12344	Atp6v 1g1	1.65	0.13	A_51_P140171	NM_024173
glycerophosphodiester phosphodiesterase domain containing 1	Gdpd1	1.65	0.55	A_52_P75465	NM_025638
Ellis van Creveld gene homolog (human)	Evc	1.65	0.28	A_52_P476431	NM_021292
predicted gene, ENSMUSG00000051562	Tmem 42	1.65	0.92	A_51_P410927	AK016980
similar to platelet-derived growth factor B chain; platelet derived growth factor, B polypeptide	Pdgfb	1.65	0.40	A_51_P175262	NM_011057
suppression of tumorigenicity 14 (colon carcinoma)	St14	1.65	0.18	A_51_P282837	NM_011176
predicted gene 11401; similar to transcription elongation factor B (SIII), polypeptide 2; predicted gene 8971;	Tceb2	1.65	0.28	A_51_P397823	NM_026305

transcription elongation factor B (SIII), polypeptide 2					
T-box 20	Tbx20	1.65	0.30	A_52_P429876	NM_194263
trans-acting transcription factor 5	Sp5	1.65	0.92	A_51_P404193	NM_022435
inhibitor of growth family, member 5	Ing5	1.65	0.92	A_51_P110168	NM_025454
prolylcarboxypeptidase (angiotensinase C)	Prcp	1.65	0.30	A_52_P99430	NM_028243
TBC1 domain family, member 10b	Tbc1d 10b	1.65	0.00	A_51_P233947	NM_144522
receptor accessory protein 1	Reep1	1.65	0.28	A_51_P508341	NM_178608
Eph receptor B4	Ephb4	1.65	0.67	A_52_P542612	NM_010144
mannoside acetylglucosaminyltransferase 4, isoenzyme B	Mgat4 b	1.65	0.55	A_52_P337220	NM_145926
similar to U1 small nuclear ribonucleoprotein C (U1 snRNP protein C) (U1C protein) (U1-C); predicted gene 2991; predicted gene 8849; predicted gene 8974; predicted gene 4674; U1 small nuclear ribonucleoprotein C	Snrp1c	1.64	0.55	A_51_P157595	NM_011432
predicted gene 10191; predicted gene 7689; predicted gene 9401; similar to ribosomal protein L31; hypothetical protein LOC675768; predicted gene 13004; predicted gene 9228; predicted gene 10072; predicted gene 5437; predicted gene 9154; ribosomal protein L31; predicted gene 6670; predicted gene 8759	Rpl31	1.64	0.44	A_52_P321875	NM_053257
sperm flagellar 1	Spef1	1.64	0.28	A_52_P156765	BC006046
annexin A9	Anxa9	1.64	0.67	A_51_P451482	NM_023628
interferon gamma receptor 2	Ifngr2	1.64	0.18	A_52_P471395	NM_008338
small EDRK-rich factor 1	Serf1	1.64	0.28	A_51_P254986	NM_011353
mitogen-activated protein kinase 3	Mapk3	1.64	0.28	A_51_P158628	NM_011952
centromere protein T	Cenpt	1.64	0.28	A_52_P537566	NM_177150
PAS domain containing serine/threonine kinase	Pask	1.64	0.28	A_51_P223709	NM_080850
histocompatibility 2, class II antigen A, beta 1; response to metastatic cancers 2; similar to H-2 class II	H2-Ab1	1.64	0.55	A_51_P215237	NM_207105

histocompatibility antigen, A-D beta chain precursor					
cold shock domain protein A	Csda	1.63	0.92	A_51_P311977	NM_011733
predicted gene 6941; predicted gene 10131; enhancer of rudimentary homolog (Drosophila)	Erh	1.63	0.28	A_51_P223666	NM_007951
membrane metallo endopeptidase	Mme	1.63	0.80	A_52_P93837	NM_008604
integrin alpha 5 (fibronectin receptor alpha)	Itga5	1.63	0.28	A_52_P364140	NM_010577
WD repeat domain 90	3230401M21Rik	1.63	0.80	A_51_P299216	BC043315
cytochrome c oxidase subunit VIb polypeptide 2	Cox6b2	1.63	0.30	A_51_P300506	NM_183405
predicted gene, 547127; transmembrane protein 181	Gpr178	1.63	0.80	A_52_P503927	NM_001033178
MAD homolog 6 (Drosophila)	Smad6	1.63	0.80	A_51_P427926	NM_008542
glucose 6 phosphatase, catalytic, 3	G6pc3	1.63	0.00	A_51_P430555	NM_175935
expressed sequence AI467606	AI467606	1.63	0.55	A_52_P458000	NM_178901
trehalase (brush-border membrane glycoprotein)	Treh	1.63	0.55	A_51_P314135	NM_021481
predicted gene 8186; small nuclear ribonucleoprotein polypeptide G	Snrpg	1.63	0.80	A_51_P200134	NM_026506
SEC14 and spectrin domains 1; predicted gene 9165	Sestd1	1.62	0.18	A_52_P415821	AK005322
protein phosphatase 1, regulatory subunit 3D	Ppp1r3d	1.62	0.40	A_51_P169516	XM_141580
polycystic kidney and hepatic disease 1	Pkhd1	1.62	0.30	A_52_P377941	NM_153179
RIKEN cDNA 5031425E22 gene	5031425E22Rik	1.62	0.28	A_52_P217492	AK017143
transmembrane protein 180	4930538D17Rik	1.62	0.40	A_51_P345792	NM_029186
tubulin, alpha 4A	Tuba4	1.62	0.40	A_52_P676271	NM_009447
WW domain containing E3 ubiquitin protein ligase 2	Wwp2	1.62	0.55	A_51_P386358	NM_025830
brain derived neurotrophic factor	Bdnf	1.61	0.55	A_51_P261991	NM_007540
nuclear transcription factor-Y alpha	Nfya	1.61	0.80	A_52_P550049	BC057099
TAO kinase 2	Taok2	1.61	0.55	A_52_P566005	AK129235
colony stimulating factor 2 receptor, alpha, low-affinity	Csf2ra	1.61	0.92	A_51_P341465	NM_009970

(granulocyte-macrophage)					
RIKEN cDNA 2310079N02 gene	2310079N02 Rik	1.61	0.28	A_51_P511707	NM_025636
transmembrane protein 209	2700094F01 Rik	1.61	0.92	A_52_P41294	NM_178625
T-cell acute lymphocytic leukemia 1	Tal1	1.61	0.28	A_51_P255853	NM_011527
a disintegrin and metallopeptidase domain 23; similar to ADAM23	Adam23	1.61	0.30	A_51_P282144	NM_011780
solute carrier family 16 (monocarboxylic acid transporters), member 7	Slc16a7	1.61	0.44	A_52_P408736	AK085398
RIKEN cDNA 1110007C09 gene	1110007C09 Rik	1.61	0.28	A_51_P252677	NM_026738
predicted gene 9992; predicted gene 8597; similar to unc-93 homolog A; unc-93 homolog A (C. elegans)	Unc93a	1.61	0.80	A_52_P326664	NM_199252
predicted gene, EG434795; hypothetical protein LOC100048591; DNA segment, Chr X, Baylor 18; similar to melanoma associated antigen (mutated) 1-like 1; predicted gene, OTTMUSG00000017677	LOC574405	1.61	0.18	A_52_P166292	NM_001025384
synaptotagmin XI; similar to synaptotagmin XI	Syt11	1.61	0.00	A_51_P260730	NM_018804
predicted gene 8624; predicted gene 9701; predicted gene 8467; predicted gene 15450; ribosomal protein S23; similar to yeast ribosomal protein S28 homologue; predicted gene 5148; similar to ribosomal protein S23; predicted gene 10054	LOC381438	1.61	0.18	A_52_P214408	NM_198657
lamin A	Lmna	1.61	0.30	A_52_P137765	NM_019390
mediator complex subunit 23	Crsp3	1.61	0.92	A_51_P190124	NM_027347
E2F transcription factor 7	E2f7	1.61	0.92	A_52_P374997	NM_178609
pleckstrin homology domain-containing, family A (phosphoinositide binding specific) member 2	Plekha2	1.60	0.44	A_52_P78257	NM_031257
histone cluster 2, H3b; histone cluster 1, H3f;	Hist1h3d	1.60	0.40	A_51_P492488	NM_178204

histone cluster 1, H3e; histone cluster 2, H3c1; histone cluster 1, H3d; histone cluster 1, H3c; histone cluster 1, H3b; histone cluster 2, H3c2; histone cluster 2, H2aa1; histone cluster 2, H2aa2					
predicted gene 8655; predicted gene 5145; predicted gene 8587; small nuclear ribonucleoprotein polypeptide A; predicted gene 5161	Snrpa	1.60	0.28	A_51_P389978	BC003229
villin 1	Vil1	1.60	0.67	A_51_P381409	NM_009509
family with sequence similarity 113, member B	BC038822	1.60	0.30	A_51_P402913	NM_172293
unc-84 homolog B (C. elegans)	Unc84b	1.60	0.30	A_51_P324120	NM_194342
RIKEN cDNA 2610002J02 gene	2610002J02Rik	1.60	0.18	A_52_P539361	NM_001033134
recombination activating gene 1 activating protein 1	Rag1ap1	1.60	0.28	A_52_P658513	NM_009057
valyl-tRNA synthetase	Vars2	1.60	0.92	A_51_P203501	NM_011690
heterogeneous nuclear ribonucleoprotein L	Hnrpl	1.60	0.28	A_51_P181571	NM_177301
similar to SH2/SH3 adaptor protein; non-catalytic region of tyrosine kinase adaptor protein 2; predicted gene 6226	Nck2	1.60	0.80	A_52_P372925	NM_010879
Treacher Collins Franceschetti syndrome 1, homolog	Tcof1	1.60	0.28	A_51_P160284	NM_011552
potassium channel, subfamily K, member 13	Kcnk13	1.59	0.67	A_51_P167763	NM_146037
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	Sema3f	1.59	0.80	A_52_P498231	NM_011349
protein kinase, X-linked	Prkx	1.59	0.28	A_51_P179864	NM_016979
protein phosphatase 1F (PP2C domain containing)	Ppm1f	1.59	0.30	A_51_P224564	NM_176833
non imprinted in Prader-Willi/Angelman syndrome 1 homolog (human)	Nipa1	1.59	0.92	A_51_P122035	NM_153578
histone deacetylase 7; similar to histone deacetylase 7A	Hdac7a	1.59	0.28	A_52_P435016	NM_019572
zinc finger CCCH type containing 12D	Zc3h12d	1.59	0.55	A_52_P648688	NM_172785

tripartite motif protein 8	Trim8	1.59	0.28	A_52_P332513	BC024694
tumor necrosis factor receptor superfamily, member 10b	Tnfrsf 10b	1.59	0.28	A_52_P10134	NM_020275
kinesin family member 23	Kif23	1.59	0.28	A_51_P324287	NM_024245
diacylglycerol kinase zeta	Dgkz	1.59	0.18	A_51_P505156	NM_138306
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	Ctdsp2	1.59	0.44	A_52_P432685	NM_146012
solute carrier family 26, member 10	C7840 9	1.59	0.80	A_52_P140881	NM_177615
cell division cycle 42 homolog (S. cerevisiae); predicted gene 7407	Cdc42	1.59	0.28	A_51_P230977	NM_009861
G protein-coupled receptor 183	Ebi2	1.58	0.28	A_51_P358683	NM_183031
RIKEN cDNA 5930416I19 gene	59304 16I19 Rik	1.58	0.55	A_52_P268549	NM_197981
predicted gene 5353; immunoglobulin heavy chain (J558 family); similar to Ig heavy chain V region 108A precursor; similar to Ig heavy chain V-I region V35 precursor; predicted gene 900; immunoglobulin heavy chain complex; similar to Ig H-chain V-JH1-region; immunoglobulin heavy variable V1-31; immunoglobulin heavy chain 2 (serum IgA)	Igh-VJ558	1.58	0.80	A_52_P139027	U39781
DEP domain containing 1a	Depdc 1a	1.58	0.40	A_52_P290325	NM_029523
glycerol kinase	Gyk	1.58	0.28	A_52_P1020291	NM_008194
solute carrier family 12, member 4	Slc12a 4	1.58	0.28	A_51_P251256	NM_009195
glycerol kinase	Gyk	1.58	0.28	A_52_P1020291	NM_212444
p21 protein (Cdc42/Rac)-activated kinase 1	Pak1	1.58	0.80	A_51_P385054	NM_011035
sacsin	Sacs	1.57	0.80	A_52_P578043	AK173011
inhibin beta-B	Inhbb	1.57	0.40	A_51_P325904	NM_008381
polymerase (RNA) III (DNA directed) polypeptide G like	Polr3gl	1.57	0.44	A_51_P467233	NM_027241
myeloid leukemia factor 1 interacting protein	Mlf1ip	1.57	0.67	A_52_P415931	NM_027973
transforming growth factor beta 1 induced transcript 1	Tgfb1i 1	1.57	0.55	A_51_P366344	NM_009365
RIKEN cDNA 6330442E10	63304	1.57	0.28	A_52_P220783	NM_178745

gene	42E10 Rik				
RIKEN cDNA 1810064F22 gene	18100 64F22 Rik	1.57	0.44	A_52_P343381	NM_00103315 1
ATP-binding cassette, sub-family A (ABC1), member 5	Abca5	1.57	0.28	A_52_P519653	NM_147219
tripartite motif-containing 68	Trim68	1.57	0.80	A_51_P490678	NM_198012
UPF3 regulator of nonsense transcripts homolog A (yeast)	Upf3a	1.57	0.18	A_51_P410830	AK145471
similar to growth arrest-specific 2 like 3; growth arrest-specific 2 like 3	Gas2l3	1.57	0.30	A_52_P328492	AK164505
matrix metallopeptidase 2	Mmp2	1.57	0.67	A_51_P341736	NM_008610
Meis homeobox 1	Meis1	1.57	0.28	A_52_P26195	NM_010789
RAB32, member RAS oncogene family	Rab32	1.57	0.80	A_51_P293688	NM_026405
integrin alpha 9	67204 58D17 Rik	1.56	0.28	A_52_P542645	AK032822
DNA methyltransferase (cytosine-5) 1	Dnmt1	1.56	0.44	A_51_P195573	NM_010066
MTERF domain containing 3	Mterfd3	1.56	0.92	A_51_P202623	NM_028832
RIKEN cDNA 4930547N16 gene	49305 47N16 Rik	1.56	0.28	A_51_P480796	NM_029249
transmembrane 9 superfamily protein member 4	Tm9sf4	1.56	0.18	A_51_P483922	NM_133847
RIKEN cDNA 1500010J02 gene	15000 10J02 Rik	1.56	0.40	A_51_P211526	NM_026889
arrestin, beta 1	Arrb1	1.56	0.30	A_51_P436727	NM_177231
cytochrome P450, family 4, subfamily f, polypeptide 16	Cyp4f16	1.56	0.40	A_51_P487869	NM_024442
solute carrier family 18 (vesicular monoamine), member 2	Slc18a2	1.56	0.30	A_52_P515572	NM_172523
platelet/endothelial cell adhesion molecule 1	Pecam1	1.56	0.80	A_51_P400868	NM_008816
similar to UDP-Gal:betaGal beta 1,3-galactosyltransferase, polypeptide 6; UDP-Gal:betaGal beta 1,3-galactosyltransferase, polypeptide 6	B3galt6	1.56	0.80	A_51_P211334	NM_080445
alkylglycerone phosphate synthase	Agps	1.56	0.92	A_51_P399504	NM_172666
dual specificity phosphatase	Dusp8	1.55	0.44	A_51_P263246	NM_008748

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integrin beta 5	Itgb5	1.55	0.28	A_51_P327796	NM_010580
similar to c-Maf long form; avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog	Maf	1.55	0.80	A_52_P306079	S74567
purine rich element binding protein B	Purb	1.55	0.28	A_51_P433091	AK009365
mitogen-activated protein kinase kinase kinase 1	Map3k 1	1.55	0.92	A_51_P402193	NM_011945
solute carrier family 12 (potassium/chloride transporters), member 8	Slc12a 8	1.55	0.28	A_51_P476618	NM_134251
claspin homolog (Xenopus laevis)	Clspn	1.55	0.18	A_52_P476075	NM_175554
solute carrier family 39 (zinc transporter), member 10	Slc39a 10	1.55	0.28	A_51_P223498	NM_172653
LIM domain only 7	Lmo7	1.55	0.67	A_52_P68755	NM_201529
ADP-ribosylation factor 4	Arf4	1.55	0.28	A_51_P295625	NM_007479
DnaJ (Hsp40) homolog, subfamily C, member 5 beta	Dnajc5 b	1.55	0.28	A_52_P396749	NM_025489
major facilitator superfamily domain containing 10	06100 09O03 Rik	1.55	0.92	A_51_P410022	NM_026660
similar to protein tyrosine phosphatase domain containing 1 protein; protein tyrosine phosphatase domain containing 1; predicted gene 2719	AW45 6874	1.55	0.28	A_51_P123623	NM_207232
euchromatic histone lysine N-methyltransferase 2	Ehmt2	1.55	0.28	A_51_P343016	NM_145830
nodal modulator 1	Nomo 1	1.55	0.30	A_51_P105520	NM_153057
calponin 2	Cnn2	1.54	0.92	A_51_P427663	NM_007725
predicted gene 7603; adaptor-related protein complex 3, sigma 1 subunit; predicted gene 5610	Ap3s1	1.54	0.80	A_51_P246962	NM_009681
proacrosin binding protein	Acrbp	1.54	0.40	A_51_P356265	NM_016845
polymerase (DNA directed), kappa	Polk	1.54	0.28	A_51_P363588	NM_012048
Yip1 interacting factor homolog B (S. cerevisiae)	Yif1b	1.54	0.44	A_51_P256842	NM_029887
WD repeat domain 1	Wdr1	1.54	0.44	A_51_P184773	NM_011715
phosphoglucomutase 1	Pgm1	1.54	0.67	A_51_P427530	NM_025700
mesoderm development candidate 1	Mesdc 1	1.54	0.55	A_52_P293232	NM_030705
family with sequence similarity 176, member B	26100 27C15 Rik	1.54	0.28	A_52_P678056	NM_172145

CUE domain containing 2	Cuedc2	1.54	0.80	A_51_P403334	NM_024192
RIKEN cDNA 2010007H12 gene	20100 07H12 Rik	1.54	0.80	A_51_P103865	NM_027242
F-box protein 10	Fbxo10	1.53	0.67	A_52_P358093	BC094565
centrosomal protein 55	Cep55	1.53	0.28	A_51_P509651	NM_028760
hyaluronan mediated motility receptor (RHAMM)	Hmmr	1.53	0.92	A_52_P9656	NM_013552
Mdm2, transformed 3T3 cell double minute p53 binding protein	Mtbp	1.53	0.28	A_51_P312310	NM_134092
interleukin 1 receptor-like 2	Il1rl2	1.53	0.28	A_52_P261184	AK085780
minichromosome maintenance deficient 4 homolog (S. cerevisiae)	Mcm4	1.53	0.44	A_51_P356762	NM_008565
WAS protein family, member 2	Wasf2	1.53	0.92	A_51_P399373	AK150140
serine incorporator 5	Serinc5	1.53	0.67	A_51_P128336	NM_172588
coiled-coil and C2 domain containing 1B	Cc2d1b	1.53	0.13	A_51_P347115	NM_177045
TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor	Taf9b	1.53	0.92	A_52_P592749	NM_001001176
predicted gene 5900; similar to Mitogen-activated protein kinase kinase 1 interacting protein 1 (MEK binding partner 1) (Mp1); MAPK scaffold protein 1	Map2k1ip1	1.53	0.55	A_51_P173555	NM_019920
STE20-related kinase adaptor alpha	26100 19A05 Rik	1.52	0.40	A_51_P413122	NM_028126
N-acetylneuraminic acid synthase (sialic acid synthase)	Nans	1.52	0.28	A_52_P166770	NM_053179
protein phosphatase 2C, magnesium dependent, catalytic subunit	Ppm2c	1.52	0.28	A_51_P452637	NM_001033453
adaptor-related protein complex AP-1, mu subunit 1	Ap1m1	1.52	0.92	A_51_P190805	NM_007456
zinc finger protein 280B	Suhw2	1.52	0.30	A_51_P486068	NM_177475
CCR4-NOT transcription complex, subunit 3	Cnot3	1.52	0.40	A_52_P631098	NM_146176
transmembrane protein 164	Tmem164	1.52	0.44	A_52_P516130	NM_177592
RAD18 homolog (S. cerevisiae)	Rad18	1.52	0.30	A_51_P480855	NM_021385
Rap guanine nucleotide	Rapgef	1.52	0.28	A_51_P116906	NM_144850

exchange factor (GEF) 3	3				
Rho guanine nucleotide exchange factor (GEF7)	Arhgef 7	1.52	0.28	A_51_P165210	NM_017402
thyroid hormone receptor interactor 10	Trip10	1.52	0.67	A_51_P132549	NM_134125
dedicator of cytokinesis 7	Dock7	1.52	0.28	A_51_P354094	BC006868
RIKEN cDNA 1700025G04 gene	17000 25G04 Rik	1.52	0.67	A_51_P328489	NM_197990
tetratricopeptide repeat domain 5; predicted gene 9387	LOC6 68831	1.52	0.80	A_52_P575668	XM_00100388 4
kinesin family member 15	Kif15	1.51	0.80	A_52_P227391	NM_010620
RIKEN cDNA 1110038F14 gene	11100 38F14 Rik	1.51	0.80	A_51_P121447	NM_054099
ankyrin repeat domain 57	Ankrd 57	1.51	0.28	A_52_P98625	XM_884335
ankyrin repeat domain 13b	Ankrd 13b	1.51	0.92	A_51_P411757	NM_172945
myelin-associated oligodendrocytic basic protein	Mobp	1.51	0.28	A_52_P384465	AK083103
CDC42 effector protein (Rho GTPase binding) 5	Cdc42 ep5	1.51	0.44	A_52_P40191	NM_021454
RIKEN cDNA C330024D12 gene	C3300 24D12 Rik	1.51	0.55	A_51_P316243	AK021221
ATX1 (antioxidant protein 1) homolog 1 (yeast)	Atox1	1.51	0.44	A_51_P346153	NM_009720
squamous cell carcinoma antigen recognized by T-cells 3	Sart3	1.51	0.92	A_51_P212023	NM_016926
F-box and leucine-rich repeat protein 14	Fbxl14	1.51	0.28	A_51_P113722	NM_133940
protein tyrosine phosphatase, receptor type, F	Ptprf	1.51	0.40	A_51_P185639	BC052322
RAS, dexamethasone-induced 1	Rasd1	1.51	0.44	A_52_P496726	NM_009026
dysbindin (dystrobrevin binding protein 1) domain containing 2	Dbndd 2	1.51	0.80	A_52_P256569	NM_026797
RIKEN cDNA C230094A16 gene	C2300 94A16 Rik	1.51	0.44	A_52_P117221	NM_146016
chemokine (C-C motif) receptor 7	Ccr7	1.51	0.44	A_51_P420229	NM_007719
fractured callus expressed transcript 1; dynein heavy chain domain 1	Fxc1	1.51	0.18	A_51_P396854	NM_019502
SET domain containing 5	Setd5	1.51	0.40	A_52_P448304	NM_028385

guanine nucleotide binding protein (G protein), beta 1	Gnb1	1.50	0.30	A_52_P304858	AB246709
WAP, FS, Ig, KU, and NTR-containing protein 1	Wfikkn1	1.50	0.28	A_51_P301773	BC026460
E2F transcription factor 1	E2f1	1.50	0.28	A_52_P587611	NM_007891
centromere protein M	Cenpm	1.50	0.28	A_51_P463087	NM_178269
RUN domain containing 3B	Gm440	1.50	0.28	A_52_P619192	NM_198620
histone cluster 2, H3b; histone cluster 1, H3f; histone cluster 1, H3e; histone cluster 2, H3c1; histone cluster 1, H3d; histone cluster 1, H3c; histone cluster 1, H3b; histone cluster 2, H3c2; histone cluster 2, H2aa1; histone cluster 2, H2aa2	Hist2h3c1	1.50	0.40	A_51_P359462	NM_178216
transmembrane protein 64	Tmem64	1.50	0.55	A_52_P10017	NM_181401
ubiquitin specific peptidase 43	Usp43	1.50	0.28	A_52_P443310	NM_173754
phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide	Pik3c2g	1.50	0.40	A_51_P191077	NM_207683
nuclear receptor coactivator 2	Ncoa2	-1.50	0.36	A_52_P21971	BC053387
poly (ADP-ribose) polymerase family, member 6	Parp6	-1.50	0.80	A_51_P197773	BC062096
proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	Psmd1	-1.50	0.55	A_52_P49727	NM_027357
zinc finger, FYVE domain containing 1	Zfyve1	-1.51	0.92	A_51_P181746	NM_183154
similar to Archain 1; archain 1; similar to coat protein delta-cop; predicted gene 8752; predicted gene 8750; similar to archain	Arcn1	-1.51	0.55	A_52_P683957	NM_145985
histidine ammonia lyase	Hal	-1.51	0.36	A_51_P172155	NM_010401
ubiquitin-conjugating enzyme E2K (UBC1 homolog, yeast)	Hip2	-1.51	0.67	A_51_P363714	NM_016786
WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2	Wfikkn2	-1.51	0.00	A_52_P283724	NM_181819
interferon, alpha-inducible protein 27 like 1	D12Ertd647e	-1.52	0.36	A_52_P86693	NM_026790
PR domain containing 2, with ZNF domain	Prdm2	-1.52	0.92	A_52_P25812	NM_001081355

glutaminase	Gls	-1.52	0.36	A_51_P365489	AK079838
solute carrier family 31, member 1	Slc31a1	-1.52	0.40	A_52_P563655	NM_175090
hect domain and RLD 4	Herc4	-1.52	0.55	A_52_P329019	NM_026101
transmembrane protein 213	D630002J15Rik	-1.52	0.44	A_51_P401501	AK021320
CD302 antigen	Cd302	-1.52	0.92	A_51_P514623	NM_025422
RIKEN cDNA 4933403F05 gene	4933403F05Rik	-1.52	0.55	A_52_P416727	NM_153794
radixin	Rdx	-1.53	0.92	A_52_P571684	NM_009041
trans-acting transcription factor 4	Sp4	-1.53	0.80	A_51_P479758	NM_009239
ATP-binding cassette, sub-family C (CFTR/MRP), member 9	Abcc9	-1.53	0.36	A_51_P328850	NM_021041
importin 7	Ipo7	-1.53	0.80	A_52_P600851	NM_181517
solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17	Slc25a17	-1.53	0.44	A_51_P181170	NM_011399
Kv channel-interacting protein 1	Kcnip1	-1.53	0.55	A_51_P117087	NM_027398
solute carrier family 3, member 1	Slc3a1	-1.53	0.36	A_51_P391727	NM_009205
glutathione S-transferase, alpha 3	Gsta3	-1.54	0.36	A_52_P432124	NM_010356
coiled-coil domain containing 90A	6230416A05Rik	-1.54	0.36	A_51_P308681	AK018089
amyloid beta (A4) precursor protein-binding, family B, member 2	Apbb2	-1.54	0.36	A_51_P149562	NM_009686
pantothenate kinase 1	Pank1	-1.54	0.55	A_51_P263591	NM_023792
PQ loop repeat containing 1	Pqlc1	-1.54	0.67	A_51_P341369	NM_025861
coagulation factor VII	F7	-1.54	0.67	A_51_P484054	NM_010172
SEC16 homolog B (S. cerevisiae)	Lztr2	-1.54	0.67	A_51_P470751	NM_033354
Smg-6 homolog, nonsense mediated mRNA decay factor (C. elegans)	Smg6	-1.54	0.44	A_52_P355276	NM_001002764
La ribonucleoprotein domain family, member 2	1700108L22Rik	-1.54	0.44	A_51_P201237	NM_001040399
RAR-related orphan receptor gamma	Rorc	-1.54	0.92	A_51_P282930	NM_011281
thioredoxin-like 1	Txnl1	-1.54	0.92	A_52_P183152	NM_016792
endoplasmic reticulum-golgi intermediate compartment	1200007D18Rik	-1.54	0.92	A_52_P69707	NM_026170

(ERGIC) 1	Rik				
S1 RNA binding domain 1	Srbd1	-1.54	0.36	A_52_P380460	NM_030133
	49314				
pleckstrin and Sec7 domain	20C21				
containing 3	Rik	-1.54	0.67	A_52_P682330	AK147606
chemokine (C-X-C motif)					
ligand 12	Cxcl12	-1.55	0.44	A_52_P685021	NM_021704
	A1300				
ubiquitin protein ligase E3	30D10				
component n-recognin 3	Rik	-1.55	0.36	A_52_P160418	NM_177783
	18100				
par-3 partitioning defective 3	08K04				
homolog B (C. elegans)	Rik	-1.55	0.36	A_52_P257532	AK007379
	23100				
RIKEN cDNA 2310044G17	44G17				
gene	Rik	-1.55	0.92	A_51_P453398	AK122546
SH3-domain binding protein	Sh3bp				
2	2	-1.55	0.44	A_51_P364632	NM_011893
pellino 2	Peli2	-1.55	0.67	A_52_P266033	AK030564
cytochrome P450, family 2,	BC018				
subfamily d, polypeptide 34	285	-1.55	0.44	A_51_P217395	NM_145474
interferon-induced protein					
with tetratricopeptide repeats					
3	Ifit3	-1.56	0.92	A_51_P359570	NM_010501
cell growth regulator with					
ring finger domain 1	Cgrrf1	-1.56	0.36	A_51_P331462	NM_026832
	Dnase				
deoxyribonuclease II beta	2b	-1.56	0.80	A_51_P166099	NM_019957
glutathione S-transferase, mu					
6	Gstm6	-1.56	0.92	A_52_P415996	NM_008184
proteasome (prosome,					
macropain) 26S subunit, non-					
ATPase, 7	Psmd7	-1.57	0.55	A_51_P487933	NM_010817
centaurin, beta 1	Centb1	-1.57	0.36	A_51_P273489	AK133473
chloride channel 2	Clcn2	-1.57	0.36	A_51_P332141	NM_009900
nudix (nucleoside					
diphosphate linked moiety					
X)-type motif 9	Nudt9	-1.57	0.44	A_51_P110814	NM_028794
	Arl6ip				
atlastin GTPase 2	2	-1.57	0.67	A_51_P316993	NM_019717
histone deacetylase 8	Hdac8	-1.57	0.35	A_52_P464062	NM_027382
dehydrogenase/reductase	BC022				
(SDR family) member 11	224	-1.57	0.92	A_51_P432851	NM_177564
lipoic acid synthetase	Lias	-1.58	0.44	A_52_P243182	NM_024471
predicted gene, EG634650;					
guanylate-binding protein 10;	58304				
RIKEN cDNA 5830443L24	43L24				
gene	Rik	-1.58	0.92	A_52_P544421	NM_029509
	91300				
	22K13				
apolipoprotein L 7a	Rik	-1.58	0.55	A_51_P497724	NM_029419

cysteine sulfinic acid decarboxylase	Csad	-1.58	0.36	A_51_P325776	NM_144942
RIKEN cDNA 4831440D22 gene	48314 40D22 Rik	-1.58	0.36	A_51_P241653	AK029243
DNA segment, Chr 14, ERATO Doi 436, expressed	D14Ert d436e	-1.58	0.55	A_52_P81252	NM_172599
integral membrane protein 2B	Itm2b	-1.58	0.23	A_51_P125513	NM_008410
threonine synthase-like 2 (bacterial)	BC051 244	-1.58	0.55	A_52_P487599	NM_178413
propionyl Coenzyme A carboxylase, beta polypeptide	Pccb	-1.59	0.36	A_51_P418259	NM_025835
SET and MYND domain containing 3	Smyd3	-1.59	0.55	A_51_P229325	NM_027188
glyoxalase 1	Glo1	-1.59	0.36	A_52_P670745	NM_025374
solute carrier family 47, member 1	13000 13J15 Rik	-1.59	0.40	A_51_P511927	NM_026183
dynamin 2	Dnm2	-1.59	0.67	A_52_P177260	NM_00103952 0
similar to polycomb group ring finger 5; polycomb group ring finger 5	Pcgf5	-1.59	0.36	A_51_P407989	NM_029508
protein kinase domain containing, cytoplasmic	AW54 8124	-1.60	0.36	A_52_P299535	NM_134117
splicing factor, arginine/serine-rich 2, interacting protein	Sfrs2ip	-1.60	0.44	A_52_P371918	NM_028148
zinc finger, CCHC domain containing 6	Zcchc6	-1.61	0.67	A_51_P225761	AK031537
sushi, nidogen and EGF-like domains 1	Sned1	-1.61	0.80	A_52_P602188	NM_172463
glucan (1,4-alpha-), branching enzyme 1	Gbe1	-1.61	0.55	A_51_P273684	NM_028803
ADP-ribosylation factor related protein 1	Arfrp1	-1.61	0.80	A_52_P153497	NM_029702
protein phosphatase 2 (formerly 2A), regulatory subunit B", alpha; RIKEN cDNA 3222402P14 gene	32224 02P14 Rik	-1.61	0.80	A_51_P270960	BC031532
major facilitator superfamily domain containing 1	Mfsd1	-1.62	0.92	A_51_P500550	NM_025813
sialic acid binding Ig-like lectin 1, sialoadhesin	Siglec 1	-1.62	0.36	A_51_P359891	NM_011426
cell division cycle 37 homolog (S. cerevisiae)-like 1	Cdc37l 1	-1.62	0.55	A_52_P676406	NM_025950
Rap guanine nucleotide exchange factor (GEF) 6	Rapgef 6	-1.62	0.92	A_51_P407209	NM_175258
similar to zinc finger and	Zbtb40	-1.62	0.36	A_52_P162659	NM_198248

BTB domain containing 40; zinc finger and BTB domain containing 40					
olfactory receptor 690	Olfr690	-1.63	0.36	A_51_P211064	NM_020290
carboxypeptidase N, polypeptide 2	Cpn2	-1.63	0.92	A_51_P170562	BC025836
SUMO1/sentrin specific peptidase 7	Senp7	-1.63	0.36	A_51_P462516	NM_025483
ADP-ribosylation factor-like 13B	Arl13b	-1.63	0.80	A_51_P409985	NM_026577
cyclin T1	Ccnt1	-1.63	0.44	A_51_P356425	NM_009833
proteasome (prosome, macropain) 26S subunit, ATPase, 4	Psmc4	-1.63	0.35	A_51_P108051	NM_011874
tetraspanin 1	Tspan1	-1.63	0.67	A_51_P333923	NM_133681
serine hydroxymethyltransferase 1 (soluble)	Shmt1	-1.63	0.55	A_52_P673499	NM_009171
zinc finger protein 36, C3H type-like 1	Zfp36l1	-1.64	0.36	A_51_P235801	NM_007564
trafficking protein, kinesin binding 1	Trak1	-1.64	0.67	A_51_P437021	BC058971
coiled-coil domain containing 91	Ccdc91	-1.64	0.40	A_52_P311129	NM_025911
dpy-19-like 1 (C. elegans)	Dpy19l1	-1.64	0.40	A_51_P518528	NM_172920
diaphanous homolog 2 (Drosophila)	Diap2	-1.64	0.36	A_52_P348638	NM_017398
cytochrome P450, family 2, subfamily j, polypeptide 5	Cyp2j5	-1.64	0.36	A_52_P315766	NM_010007
proprotein convertase subtilisin/kexin type 5	Pcsk5	-1.65	0.44	A_52_P544043	BC013068
aconitase 1	Aco1	-1.65	0.36	A_51_P391082	NM_007386
FAST kinase domains 5	Fastkd5	-1.65	0.35	A_51_P448866	NM_198176
olfactory receptor 120	Olfr120	-1.65	0.36	A_51_P360658	NM_146631
RNA pseudouridylate synthase domain containing 3	Rpusd3	-1.65	0.44	A_52_P411507	AK076749
RIKEN cDNA 1110033M05 gene	1110033M05Rik	-1.65	0.40	A_52_P9289	AK166285
regulation of nuclear pre-mRNA domain containing 1A	BC021395	-1.65	0.55	A_51_P375406	NM_144861
proteasome (prosome, macropain) activator subunit 4	Psme4	-1.66	0.55	A_52_P111438	NM_134013
RIKEN cDNA 1700012B07 gene	1700012B07	-1.66	0.92	A_51_P287241	BC048675

	Rik				
component of oligomeric golgi complex 4	Cog4	-1.66	0.36	A_52_P353322	NM_133973
exostoses (multiple) 1	Ext1	-1.66	0.36	A_51_P416689	NM_010162
PDZ and LIM domain 5	Pdlim5	-1.66	0.24	A_52_P662600	NM_019808
transmembrane protein 57	Tmem 57	-1.66	0.36	A_51_P342259	NM_025382
ankyrin repeat domain 33B	57305 57B15 Rik	-1.67	0.67	A_52_P463235	NM_027496
Kruppel-like factor 1 (erythroid)	Klf1	-1.67	0.92	A_51_P168630	NM_010635
EF-hand calcium binding domain 2	Efcab2	-1.67	0.80	A_52_P465986	NM_026626
pyrophosphatase (inorganic) 2	Ppa2	-1.67	0.35	A_52_P18972	NM_146141
synaptic nuclear envelope 2	Syne2	-1.67	0.92	A_52_P315022	XM_917083
tyrosine kinase 2	Tyk2	-1.68	0.67	A_51_P466824	NM_018793
UBX domain protein 4	Ubxd2	-1.68	0.36	A_51_P184312	NM_026390
H2A histone family, member Y	H2afy	-1.68	0.44	A_52_P179238	BC006955
RIKEN cDNA A530082C11 gene	A5300 82C11 Rik	-1.68	0.36	A_52_P119830	NM_177186
N-myristoyltransferase 1	Nmt1	-1.68	0.67	A_51_P180825	NM_008707
integrin alpha 2	Itga2	-1.69	0.40	A_52_P612019	NM_008396
solute carrier family 25, member 45	AW49 1445	-1.70	0.36	A_51_P349727	NM_134154
serine (or cysteine) peptidase inhibitor, clade B, member 1c	Serpin b1c	-1.70	0.92	A_51_P212057	NM_173051
lysophosphatidylglycerol acyltransferase 1	Lpgat1	-1.70	0.36	A_51_P453351	NM_172266
Ndufab1cytochrome P450, family 2, subfamily j, polypeptide 11	Cyp2j1 1	-1.71	0.36	A_51_P423085	NM_00100414 1
receptor (TNFRSF)-interacting serine-threonine kinase 2	Ripk2	-1.71	0.36	A_52_P179785	NM_138952
peroxiredoxin 6, related sequence 2	Prdx6-rs2	-1.71	0.36	A_52_P467930	XM_00100080 2
interferon regulatory factor 2	Irf2	-1.71	0.23	A_51_P316523	NM_008391
regulatory solute carrier protein, family 1, member 1; DNA-damage inducible protein 2	Ddi2	-1.71	0.36	A_51_P152115	AK018643
monocyte to macrophage differentiation-associated 2	Mmd2	-1.72	0.36	A_51_P257885	NM_175217
regulatory factor X, 4 (influences HLA class II expression)	Rfx4	-1.72	0.44	A_51_P496309	NM_00102491 8

exosome component 7	Exosc7	-1.73	0.67	A_51_P381784	BC094932
RAB GTPase activating protein 1-like	Rabgap1l	-1.73	0.00	A_52_P158122	NM_013862
ubiquitin protein ligase E3 component n-recognin 2	Ubr2	-1.73	0.36	A_52_P387502	NM_146078
ADP-ribosylation factor guanine nucleotide-exchange factor 1(brefeldin A-inhibited)	Arfgef1	-1.73	0.36	A_52_P513439	XM_975420
aldehyde oxidase 1	Aox1	-1.73	0.36	A_51_P333111	NM_009676
F-box protein 3	Fbxo3	-1.73	0.36	A_52_P113350	NM_212433
tocopherol (alpha) transfer protein	Ttpa	-1.73	0.00	A_52_P29610	NM_015767
RIKEN cDNA 2610507B11 gene	2610507B11Rik	-1.74	0.44	A_51_P244543	NM_001002004
RIKEN cDNA 3110049J23 gene	3110049J23Rik	-1.74	0.23	A_51_P165451	NM_026085
AHNAK nucleoprotein (desmoyokin)	Ahnak	-1.75	0.55	A_52_P496566	NM_001039959
ethanolamine kinase 1	Etnk1	-1.75	0.36	A_52_P424640	AK044502
acyl-Coenzyme A dehydrogenase family, member 10	Acad10	-1.76	0.55	A_51_P187507	NM_028037
RIKEN cDNA 9330182L06 gene	9330182L06Rik	-1.76	0.36	A_52_P134642	NM_172706
S phase cyclin A-associated protein in the ER	Zfp291	-1.76	0.44	A_52_P373205	AK173175
ankyrin repeat and sterile alpha motif domain containing 4B	Anks4b	-1.76	0.55	A_51_P318618	NM_028085
phospholipase C, beta 1	Plcb1	-1.77	0.92	A_52_P18262	BC058710
programmed cell death 4	Pdcd4	-1.78	0.92	A_51_P261428	NM_011050
RIKEN cDNA 2810474O19 gene	2810474O19Rik	-1.78	0.36	A_52_P437860	NM_026054
hexamethylene bis-acetamide inducible 1	Hexim1	-1.78	0.80	A_51_P348397	NM_138753
RIKEN cDNA 1700028E10 gene	1700028E10Rik	-1.78	0.55	A_52_P643893	AK006454
biotinidase	Btd	-1.79	0.92	A_51_P196158	NM_025295
potassium channel, subfamily K, member 10	1700024D23Rik	-1.79	0.44	A_52_P483391	NM_029911
sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2	Spock2	-1.79	0.67	A_52_P393181	NM_052994
UDP glucuronosyltransferase	Ugt2b	-1.79	0.40	A_51_P102438	NM_053215

2 family, polypeptide B37	37				
lectin, galactose binding, soluble 8	Lgals8	-1.79	0.40	A_51_P316981	NM_018886
solute carrier organic anion transporter family, member 1a5	Slco1a5	-1.80	0.00	A_52_P542496	NM_130861
similar to Adenosylhomocysteinase (S-adenosyl-L-homocysteine hydrolase) (AdoHcyase) (Liver copper-binding protein) (CUBP); S-adenosylhomocysteine hydrolase	Ahcy	-1.80	0.67	A_51_P473533	BC015304
similar to epithelial protein lost in neoplasm; LIM domain containing 2	Limd2	-1.80	0.00	A_52_P78023	NM_172397
RIKEN cDNA A330049M08 gene	A330049M08Rik	-1.80	0.67	A_51_P496795	NM_145555
PTK2 protein tyrosine kinase 2 beta	Ptk2b	-1.80	0.35	A_52_P684647	NM_172498
fer (fms/fps related) protein kinase, testis specific 2	Fert2	-1.80	0.55	A_52_P405340	NM_001037997
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	Smarca2	-1.80	0.35	A_51_P450052	NM_026003
desmoglein 1 alpha	Dsg1a	-1.80	0.80	A_52_P475111	XM_484705
retinoblastoma binding protein 4	Rbbp4	-1.81	0.00	A_52_P296810	NM_009030
ubiquitin-associated protein 1	Ubap1	-1.81	0.36	A_51_P480062	NM_023305
centrosomal protein 110	Cep110	-1.81	0.67	A_51_P234907	BC079536
brain and reproductive organ-expressed protein	Bre	-1.81	0.36	A_51_P197365	NM_181279
autophagy-related 3 (yeast)	Atg3	-1.82	0.40	A_52_P464003	NM_026402
interleukin 1 receptor accessory protein	Il1rap	-1.82	0.67	A_52_P467232	NM_134103
protein phosphatase 1, regulatory (inhibitor) subunit 9A	Ppp1r9a	-1.82	0.55	A_52_P159490	NM_181595
leucine-rich repeat, immunoglobulin-like and transmembrane domains 1	Lrrc21	-1.82	0.92	A_51_P145020	NM_146245
tau tubulin kinase 2; congenital dyserythropoietic anemia, type I (human)	Ttbk2	-1.82	0.40	A_51_P184398	NM_001024856
complement component 4 binding protein	C4bp	-1.83	0.36	A_52_P60194	NM_007576
X-linked inhibitor of	Birc4	-1.83	0.00	A_51_P424893	NM_009688

apoptosis					
RIKEN cDNA 9630025F12 gene; protein kinase C, epsilon	Prkce	-1.83	0.44	A_52_P375455	NM_011104
forkhead-associated (FHA) phosphopeptide binding domain 1	Fhad1	-1.83	0.92	A_52_P675039	NM_028429
coagulation factor XI	F11	-1.84	0.36	A_51_P502119	NM_028066
RIKEN cDNA 4933438K21 gene	49334 38K21 Rik	-1.84	0.36	A_51_P299709	AK017111
D-aspartate oxidase	Ddo	-1.84	0.00	A_52_P448335	AK019898
Dmx-like 2	Dmxl2	-1.84	0.92	A_51_P141660	XM_358382
methyl-CpG binding domain protein 1	Mbd1	-1.84	0.44	A_52_P158923	NM_013594
GTP-binding protein 10 (putative); predicted gene 6877	BC034 507	-1.84	0.36	A_52_P646542	NM_153116
hook homolog 3 (Drosophila)	Hook3	-1.84	0.23	A_52_P247513	NM_207659
mitogen-activated protein kinase kinase 3	Map2k 3	-1.85	0.24	A_51_P272817	NM_008928
chemokine (C-C motif) ligand 25	Ccl25	-1.86	0.36	A_52_P326713	NM_009138
DNA segment, Chr 14, Abbott 1 expressed	D14Ab b1e	-1.86	0.92	A_52_P182749	XM_897688
RIKEN cDNA 2310044G17 gene	23100 44G17 Rik	-1.86	0.44	A_52_P366772	NM_173735
ATP-binding cassette, sub-family B (MDR/TAP), member 10; similar to ABC transporter	Abcb1 0	-1.86	0.80	A_51_P144696	NM_019552
dopa decarboxylase	Ddc	-1.86	0.36	A_52_P63905	NM_016672
cytochrome P450, family 4, subfamily v, polypeptide 3	Cyp4v 3	-1.87	0.36	A_52_P302345	NM_133969
sulfiredoxin 1 homolog (S. cerevisiae)	Srxn1	-1.87	0.67	A_51_P330125	NM_029688
endonuclease G	Endog	-1.87	0.00	A_51_P349073	NM_007931
regulatory associated protein of MTOR, complex 1	49324 17H02 Rik	-1.87	0.40	A_51_P413031	NM_028898
mitochondrial tumor suppressor 1	Mtus1	-1.88	0.80	A_52_P19159	NM_00100586 5
gamma-aminobutyric acid (GABA) B receptor, 2; similar to ortholog of human G protein-coupled receptor 51 GPR51	Gabbr 2	-1.88	0.24	A_52_P111145	NM_00108114 1
similar to modulator recognition factor 2; AT rich interactive domain 5B	Arid5b	-1.88	0.00	A_52_P367621	NM_023598

(MRF1-like)					
bromodomain containing 4	Brd4	-1.89	0.36	A_52_P494230	NM_020508
chimerin (chimaerin) 2	Chn2	-1.89	0.40	A_52_P302587	NM_023543
myelin basic protein	Mbp	-1.89	0.55	A_52_P329451	NM_010777
insulin-like growth factor binding protein, acid labile subunit	Igfals	-1.89	0.44	A_51_P277088	NM_008340
interferon (alpha and beta) receptor 2	Ifnar2	-1.89	0.44	A_52_P190405	NM_010509
MYST histone acetyltransferase 1	Myst1	-1.89	0.13	A_51_P103757	NM_026370
F-box protein 3	Fbxo3	-1.90	0.36	A_52_P412529	NM_020593
ATP-binding cassette, sub-family G (WHITE), member 2	Abcg2	-1.91	0.67	A_51_P184886	NM_011920
breast carcinoma amplified sequence 3	Bcas3	-1.91	0.36	A_51_P433584	NM_138681
calcium/calmodulin-dependent protein kinase ID	Camk1d	-1.91	0.67	A_52_P131353	NM_177343
mannose-binding lectin (protein A) 1	Mbl1	-1.92	0.23	A_51_P373619	NM_010775
achaete-scute complex homolog 2 (Drosophila)	Ascl2	-1.92	0.24	A_51_P469147	NM_008554
chitinase domain containing 1	3110023E09Rik	-1.92	0.55	A_52_P18922	NM_026522
tec protein tyrosine kinase	Tec	-1.92	0.36	A_51_P467505	NM_013689
Ca2+-dependent activator protein for secretion 2	Cadps2	-1.93	0.36	A_51_P233153	NM_153163
thyroid hormone receptor interactor 4	Trip4	-1.93	0.36	A_52_P390918	NM_019797
protein phosphatase 1 (formerly 2C)-like	Ppm1l	-1.93	0.36	A_51_P413111	AK147389
superkiller viralicidic activity 2-like (S. cerevisiae)	Skiv2l	-1.93	0.00	A_52_P614960	NM_021337
integrator complex subunit 4	Ints4	-1.93	0.80	A_51_P121252	NM_027256
IQ motif and ubiquitin domain containing; similar to IQ and ubiquitin-like domain-containing protein FLJ35834 homolog	4932408B21Rik	-1.93	0.36	A_52_P512137	NM_172535
serine (or cysteine) peptidase inhibitor, clade B, member 9c	Serpinb9c	-1.93	0.00	A_51_P483499	NM_011453
GTP cyclohydrolase 1	Gch1	-1.94	0.23	A_51_P297579	NM_008102
syntaxin 8	Stx8	-1.94	0.23	A_52_P603654	NM_018768
expressed sequence AI317395	AI317395	-1.94	0.80	A_51_P436469	NM_144821
cut-like homeobox 1	Cutl1	-1.94	0.36	A_52_P567658	NM_198602
transformation related protein 53 inducible nuclear protein	Trp53inp2	-1.96	0.36	A_51_P228354	NM_178111

2					
adaptor-related protein complex 3, delta 1 subunit	Ap3d1	-1.96	0.23	A_51_P413710	NM_007460
collagen, type XXVII, alpha 1	Col27a1	-1.96	0.92	A_52_P480088	AK003879
ariadne homolog 2 (Drosophila); predicted gene 12263	Arih2	-1.97	0.35	A_52_P669843	NM_011790
methionine sulfoxide reductase A	Msra	-1.97	0.36	A_51_P299243	NM_026322
5',3'-nucleotidase, mitochondrial	Nt5m	-1.97	0.36	A_51_P344046	NM_134029
leucine rich repeat containing 16A	Lrrc16	-1.98	0.44	A_52_P474719	NM_026825
natriuretic peptide receptor 3	Npr3	-1.99	0.36	A_51_P247184	NM_008728
germ cell-specific gene 1	Gsg1	-1.99	0.80	A_51_P346252	NM_010352
ATPase, class VI, type 11C	Atp11c	-2.00	0.36	A_51_P215815	NM_001001798
protein phosphatase 1, regulatory (inhibitor) subunit 3B	Ppp1r3b	-2.00	0.36	A_51_P138933	NM_177741
SET binding factor 2	Sbf2	-2.00	0.23	A_52_P371401	BC067204
glycine-N-acyltransferase	Glyat	-2.01	0.00	A_51_P318856	NM_145935
transmembrane protein 70	Tmem70	-2.01	0.00	A_51_P259415	NM_027415
C-reactive protein, pentraxin-related	Crp	-2.01	0.36	A_51_P105554	NM_007768
olfactory receptor 144	Olfr144	-2.02	0.55	A_51_P436790	NM_207665
homer homolog 2 (Drosophila)	Homer2	-2.02	0.36	A_52_P176573	NM_011983
angiogenin, ribonuclease A family, member 2	Ang2	-2.03	0.00	A_51_P349888	NM_007449
similar to cytochrome b5 outer mitochondrial membrane precursor; cytochrome b5 type B	Cyb5b	-2.04	0.67	A_51_P336827	NM_025558
CD99 antigen-like 2	Cd99l2	-2.04	0.36	A_52_P601385	NM_138309
alcohol dehydrogenase 6 (class V), pseudogene 1	Adh6-ps1	-2.04	0.55	A_51_P120027	AK004863
fetuin beta	Fetub	-2.04	0.24	A_51_P353494	NM_021564
SMAD specific E3 ubiquitin protein ligase 2; similar to SMAD specific E3 ubiquitin protein ligase 2	Smurf2	-2.04	0.36	A_52_P576886	NM_025481
von Willebrand factor A domain containing 5B1	4931403E03Rik	-2.04	0.55	A_51_P104409	XM_144060
vesicle transport through interaction with t-SNAREs homolog 1A (yeast)	Vti1a	-2.05	0.23	A_52_P361664	NM_016862

attractin like 1	Atrnl1	-2.05	0.44	A_52_P584293	NM_181415
natriuretic peptide precursor type B	Nppb	-2.05	0.36	A_51_P426195	NM_008726
coiled-coil domain containing 17	LOC622665	-2.05	0.36	A_51_P426724	NM_001037916
phosphodiesterase 8A; similar to cAMP-specific cyclic nucleotide phosphodiesterase PDE8; MMPDE8	Pde8a	-2.05	0.23	A_52_P391000	NM_008803
similar to Nedd4 binding protein 2; NEDD4 binding protein 2	B3bp	-2.05	0.00	A_52_P573174	NM_001024917
fat storage-inducing transmembrane protein 1	1110028A07Rik	-2.06	0.92	A_51_P164630	NM_026808
phosphatidylinositol glycan anchor biosynthesis, class U	Cdc91l1	-2.07	0.00	A_52_P222709	NM_001004721
solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 8	Slc17a8	-2.07	0.40	A_52_P163021	NM_182959
forkhead box N3	Ches1	-2.07	0.36	A_51_P367136	BC029185
dymeclin	Dym	-2.07	0.36	A_51_P272586	NM_027727
gephyrin	Gphn	-2.07	0.36	A_52_P551594	NM_172952
RIKEN cDNA A730011L01 gene	A7300 11L01 Rik	-2.08	0.92	A_51_P361242	NM_177394
SET binding factor 2	Sbf2	-2.08	0.55	A_51_P250590	AK080963
arylformamidase	Afmid	-2.09	0.92	A_52_P219904	NM_027827
RIKEN cDNA 4933407N01 gene	4933407N01 Rik	-2.09	0.92	A_52_P508317	AK162571
kyphoscoliosis peptidase	Ky	-2.09	0.36	A_52_P561272	NM_024291
angiogenin, ribonuclease A family, member 4	Ang4	-2.09	0.23	A_51_P502906	NM_177544
RIKEN cDNA 1110020G09 gene	1110020G09 Rik	-2.10	0.55	A_52_P374274	AK046666
protein tyrosine phosphatase, receptor type, D	Ptprd	-2.10	0.36	A_51_P468231	NM_011211
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	Nfatc2	-2.11	0.67	A_52_P628171	NM_010899
similar to NFIL3/E4BP4 transcription factor; nuclear factor, interleukin 3, regulated	Nfil3	-2.12	0.36	A_51_P111492	NM_017373
T-cell immunoglobulin and mucin domain containing 4	Timd4	-2.12	0.36	A_52_P609868	NM_178759
RIKEN cDNA 9130016M20	9130016M20	-2.13	0.44	A_52_P303754	AK050221

gene	16M20 Rik				
nardilysin, N-arginine dibasic convertase, NRD convertase 1	Nrd1	-2.13	0.00	A_52_P51783	NM_146150
pyruvate dehydrogenase kinase, isoenzyme 1	Pdk1	-2.15	0.00	A_51_P406429	NM_172665
endothelin converting enzyme 2	Ece2	-2.15	0.40	A_52_P271572	NM_139293
zinc finger and BTB domain containing 20	Zbtb20	-2.15	0.24	A_52_P279651	NM_019778
conserved helix-loop-helix ubiquitous kinase	Chuk	-2.16	0.36	A_52_P386468	NM_007700
RIKEN cDNA 4930404H11 gene	49304 04H11 Rik	-2.16	0.36	A_52_P1179483	AK015079
lin-7 homolog A (C. elegans)	Lin7a	-2.16	0.92	A_52_P48762	NM_00103935 4
tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	Tnks	-2.18	0.00	A_51_P109364	AK083986
cleavage and polyadenylation specific factor 4-like	D11Ert d636e	-2.18	0.00	A_51_P377557	NM_029794
RIKEN cDNA 5033411D12 gene	AF397 014	-2.18	0.36	A_51_P397200	NM_138654
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 3	Hsd3b 3	-2.18	0.36	A_52_P459818	NM_00101230 6
transient receptor potential cation channel, subfamily M, member 2	Trpm2	-2.20	0.44	A_52_P676635	NM_138301
cDNA sequence BC015286	BC015 286	-2.20	0.92	A_51_P436567	NM_198171
predicted gene 7208; carboxylesterase 6	Ces6	-2.20	0.00	A_51_P443339	NM_133960
Rap guanine nucleotide exchange factor (GEF) 4	Rapgef 4	-2.21	0.55	A_51_P285916	NM_019688
ubiquitin associated domain containing 2	Phgdhl 1	-2.21	0.67	A_52_P82229	NM_026861
par-3 (partitioning defective 3) homolog (C. elegans)	Pard3	-2.21	0.00	A_52_P224323	NM_00101358 1
cytochrome P450, family 2, subfamily c, polypeptide 39	Cyp2c 39	-2.22	0.92	A_51_P304109	NM_010003
ankyrin repeat domain 33B	30214 01C12 Rik	-2.22	0.36	A_52_P92121	AK053456
prior incubation determinant 1; RIKEN cDNA 5033414K04 gene	50334 14K04 Rik	-2.22	0.67	A_52_P269158	NM_00100394 8
RIKEN cDNA 4930528F23 gene	49305 28F23	-2.23	0.92	A_51_P510640	AK015924

proline dehydrogenase	Rik Prodh	-2.23	0.24	A_51_P215438	NM_011172
RIKEN cDNA 4833442J19 gene	48334 42J19 Rik	-2.23	0.36	A_52_P263673	NM_177101
McKusick-Kaufman syndrome protein	Mkks	-2.23	0.80	A_52_P541939	NM_021527
coiled-coil domain containing 21	Ccdc2 1	-2.24	0.35	A_51_P379208	NM_144527
solute carrier family 1 (glial high affinity glutamate transporter), member 2	Slc1a2	-2.24	0.00	A_52_P168496	NM_011393
coronin 7	Coro7	-2.24	0.23	A_51_P323878	NM_030205
synaptotagmin I	Syt1	-2.24	0.36	A_51_P297900	NM_009306
cytochrome P450, family 2, subfamily d, polypeptide 13	Cyp2d 13	-2.25	0.36	A_52_P372062	AK004933
dipeptidylpeptidase 4	Dpp4	-2.25	0.13	A_52_P443578	NM_010074
TBC1 domain family, member 9B	Tbc1d 9b	-2.25	0.00	A_51_P354461	BC065080
D-aspartate oxidase	Ddo	-2.26	0.00	A_51_P384936	NM_027442
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	Pfkfb3	-2.26	0.36	A_52_P362917	NM_133232
myosin VB	Myo5b	-2.27	0.36	A_52_P408914	NM_201600
forkhead box N3	Ches1	-2.27	0.36	A_51_P172344	NM_183186
heat shock protein, alpha-crystallin-related, B6	Hspb6	-2.30	0.36	A_51_P322022	NM_00101240 1
hairy and enhancer of split 6 (Drosophila)	Hes6	-2.32	0.00	A_51_P429366	NM_019479
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	Smarc a2	-2.33	0.36	A_51_P504037	NM_011416
Musashi homolog 2 (Drosophila)	Msi2	-2.33	0.24	A_52_P780821	NM_054043
RIKEN cDNA 1810011O10 gene	18100 11O10 Rik	-2.33	0.80	A_51_P112308	NM_026931
membrane associated guanylate kinase, WW and PDZ domain containing 1	Magi1	-2.33	0.36	A_51_P406346	NM_010367
aminolevulinic acid synthase 2, erythroid	Alas2	-2.34	0.36	A_51_P327451	NM_009653
angiogenin, ribonuclease A family, member 3; angiogenin, ribonuclease A family, member 5	Ang3	-2.35	0.00	A_51_P179504	U72672
solute carrier family 10 (sodium/bile acid cotransporter family), member 1	Slc10a 1	-2.36	0.40	A_52_P69109	NM_011387

RIKEN cDNA 2210408F21 gene	2210408F21 Rik	-2.36	0.00	A_51_P436610	XM_895387
kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	Kmo	-2.37	0.00	A_51_P493302	NM_133809
serine (or cysteine) peptidase inhibitor, clade E, member 2	Serpine2	-2.37	0.36	A_51_P268094	NM_009255
metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)	Malat1	-2.37	0.13	A_51_P377045	AK090111
serine/threonine kinase 40	Stk40	-2.38	0.13	A_51_P363657	NM_028800
kininogen 2	Kng2	-2.38	0.00	A_52_P305539	NM_201375
DIP2 disco-interacting protein 2 homolog C (Drosophila)	Dip2c	-2.39	0.00	A_51_P216516	AK013596
phospholipase C, beta 1	Plcb1	-2.40	0.00	A_52_P351574	NM_019677
dihydropyrimidine dehydrogenase	Dpyd	-2.41	0.13	A_51_P473259	NM_170778
natriuretic peptide receptor 2	Npr2	-2.41	0.23	A_51_P518940	NM_173788
Purkinje cell protein 4-like 1	Pcp4l1	-2.42	0.40	A_51_P361150	AK002772
glycine-N-acyltransferase	Glyat	-2.43	0.55	A_52_P506984	BC015294
HOP homeobox	Hod	-2.43	0.13	A_52_P512575	NM_175606
protein kinase C, zeta	Prkcz	-2.44	0.00	A_52_P438084	NM_008860
sorcin	Sri	-2.45	0.00	A_51_P489313	NM_025618
protein kinase D3	Prkcn	-2.46	0.13	A_52_P94495	AK050059
guanine nucleotide binding protein, alpha 14	Gna14	-2.47	0.44	A_51_P110323	NM_008137
fat mass and obesity associated	Fto	-2.47	0.00	A_52_P509188	AK129437
cytochrome P450, family 2, subfamily c, polypeptide 40; similar to RIKEN cDNA C730004C24 gene; cytochrome P450, family 2, subfamily c, polypeptide 69; cytochrome P450, family 2, subfamily c, polypeptide 67	Cyp2c40	-2.47	0.00	A_52_P200121	NM_010004
cullin 3	Cul3	-2.47	0.24	A_52_P47645	NM_016716
NLR family, pyrin domain containing 6	Nalp6	-2.50	0.23	A_52_P98531	BC031139
SET binding factor 2	Sbf2	-2.50	0.00	A_52_P660745	BC015069
trafficking protein, kinesin binding 1	Trak1	-2.50	0.36	A_52_P458536	NM_175114
MACRO domain containing 1	D930010J01Rik	-2.51	0.24	A_52_P559957	NM_134147
hairy and enhancer of split 2 (Drosophila)	Hes2	-2.51	0.35	A_51_P303308	NM_008236
cytochrome P450, family 4,	Cyp4f	-2.54	0.13	A_51_P210603	NM_130882

subfamily f, polypeptide 13	13				
tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	Tnks	-2.55	0.00	A_52_P127024	NM_175091
RIKEN cDNA 0610012H03 gene	06100 12H03 Rik	-2.57	0.00	A_51_P378622	NM_028747
protein tyrosine phosphatase, receptor type, G; similar to protein tyrosine phosphatase, receptor type, G	Ptprg	-2.58	0.00	A_51_P103114	NM_008981
insulin induced gene 1	Insig1	-2.58	0.67	A_51_P290207	NM_153526
folate receptor 2 (fetal)	Folr2	-2.59	0.36	A_51_P162671	NM_008035
esterase 22	Es22	-2.60	0.23	A_51_P369784	NM_133660
predicted gene 11225; 3-hydroxyisobutyrate dehydrogenase	Hibadh	-2.60	0.00	A_51_P165165	NM_145567
neuropilin 1	Nrp1	-2.61	0.44	A_52_P371237	NM_008737
vacuolar protein sorting 41 (yeast)	Vps41	-2.64	0.00	A_51_P412338	NM_172120
cytochrome P450, family 27, subfamily a, polypeptide 1	Cyp27 a1	-2.65	0.36	A_51_P112817	NM_024264
nebulin	Neb	-2.65	0.36	A_51_P218535	XM_130232
epidermal growth factor receptor	Egfr	-2.65	0.36	A_52_P175190	AK033431
spermidine/spermine N1-acetyl transferase-like 1	Satl1	-2.67	0.36	A_51_P288608	AK015086
high density lipoprotein (HDL) binding protein	Hdlbp	-2.67	0.36	A_52_P36586	NM_133808
N-acylsphingosine amidohydrolase 1	Asah1	-2.68	0.23	A_51_P509098	NM_019734
neurexin I	Nrxn1	-2.70	0.55	A_51_P229547	AB093249
deiodinase, iodothyronine, type I; similar to Dio1 protein	Dio1	-2.70	0.35	A_51_P403477	NM_007860
leucine-rich repeats and transmembrane domains 1	Lrtm1	-2.72	0.36	A_51_P326685	NM_176920
bromodomain containing 4	Brd4	-2.72	0.00	A_52_P142965	NM_198094
protein phosphatase 1 (formerly 2C)-like	Ppm1l	-2.73	0.00	A_51_P212515	NM_178726
potassium channel, subfamily K, member 5	Kcnk5	-2.75	0.36	A_51_P267861	NM_021542
solute carrier family 2 (facilitated glucose transporter), member 5	Slc2a5	-2.76	0.36	A_51_P514405	NM_019741
exoribonuclease 3	Prnpip 1	-2.77	0.00	A_52_P616591	NM_080469
UDP glycosyltransferases 3 family, polypeptide A2	Ugt3a2	-2.78	0.36	A_52_P557240	NM_144845
RIKEN cDNA 4933407N01 gene	49334 07N01	-2.79	0.00	A_51_P232771	NM_025745

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cytidine monophospho-N-acetylneuraminic acid hydroxylase	Cmah	-2.80	0.36	A_51_P172917	NM_007717
ornithine aminotransferase	Oat	-2.80	0.36	A_51_P141535	NM_016978
transmembrane 7 superfamily member 2	Tm7sf 2	-2.81	0.80	A_52_P35064	NM_028454
pyruvate kinase liver and red blood cell	Pklr	-2.83	0.36	A_51_P176042	NM_013631
carboxylesterase 8 (putative)	BC026 374	-2.88	0.40	A_51_P478881	NM_146213
SET binding factor 2	Sbf2	-2.90	0.00	A_52_P676877	NM_177324
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 6	Hsd3b 6	-2.90	0.00	A_52_P253567	NM_013821
indoleamine 2,3-dioxygenase 2	C2300 43N17 Rik	-2.98	0.00	A_51_P384515	AK082385
predicted gene 10319	LOC3 81806	-2.98	0.80	A_52_P202367	NM_00101377 5
DEP domain containing 6	Depdc 6	-2.98	0.00	A_51_P445841	NM_145470
DnaJ (Hsp40) homolog, subfamily C, member 1	Dnajc1	-2.99	0.23	A_51_P513041	AK014639
cytochrome P450, family 4, subfamily f, polypeptide 14	Cyp4f 14	-2.99	0.36	A_51_P452768	NM_022434
similar to cytochrome P450; CYP2C37; cytochrome P450, family 2. subfamily c, polypeptide 37	Cyp2c 37	-3.04	0.24	A_51_P498882	NM_010001
cytochrome P450, family 2, subfamily c, polypeptide 44	Cyp2c 44	-3.05	0.36	A_51_P209782	NM_00100144 6
tsukushin	Lrrc54	-3.05	0.36	A_51_P219483	NM_00102461 9
small nucleolar RNA host gene 11 (non-protein coding)	E1300 13N09 Rik	-3.10	0.00	A_51_P267933	BC028327
epidermal growth factor receptor	Egfr	-3.11	0.36	A_52_P106259	NM_207655
coronin 7	Coro7	-3.13	0.00	A_52_P287419	AK039585
F-box and leucine-rich repeat protein 17	Fbxl17	-3.13	0.00	A_52_P268279	XM_925135
serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 11	Serpin a11	-3.13	0.36	A_52_P423296	NM_199314
tetraspanin 33	Tspan3 3	-3.15	0.23	A_51_P367240	NM_146173
ladinin	Lad1	-3.17	0.00	A_51_P116932	NM_133664
acyl-CoA synthetase short-chain family member 2	Acss2	-3.18	0.40	A_52_P566718	NM_019811

camello-like 5	Cml5	-3.18	0.36	A_52_P2710	NM_023493
urocanase domain containing 1	Uroc1	-3.24	0.00	A_51_P206225	NM_144940
syntrophin, gamma 2	Sntg2	-3.25	0.36	A_51_P369998	NM_172951
ARD1 homolog B (S. cerevisiae)	C8000 8	-3.27	0.00	A_51_P282297	NM_00103319 1
aldo-keto reductase family 1, member C14	Akr1c 14	-3.29	0.67	A_51_P284177	NM_134072
amylase 1, salivary	Amy1	-3.35	0.23	A_51_P383638	NM_007446
ring finger protein 130; similar to Ring finger protein 130	Rnf13 0	-3.39	0.13	A_52_P225438	NM_021540
kidney expressed gene 1	Keg1	-3.44	0.36	A_52_P653825	NM_029550
lactate dehydrogenase D	Ldhd	-3.53	0.00	A_52_P161454	NM_027570
fat mass and obesity associated	Fto	-3.56	0.00	A_51_P199899	NM_011936
BCL2-like 1	Bcl2l1	-3.67	0.36	A_52_P510877	NM_009743
E2F transcription factor 8	E2f8	-3.68	0.80	A_52_P1135379	AK158295
melanoma inhibitory activity 2	Mia2	-3.68	0.00	A_52_P168319	NM_177321
cell division cycle 123 homolog (S. cerevisiae)	G4310 01I09 Rik	-3.70	0.00	A_52_P345351	NM_133837
calcium channel, voltage-dependent, gamma subunit 2	Cacng 2	-3.72	0.00	A_51_P226645	AK047238
predicted gene 1966; predicted gene 8995; GTPase, very large interferon inducible 1	Gm19 66	-3.81	0.36	A_52_P431615	XM_485982
epidermal growth factor receptor	Egfr	-3.90	0.67	A_52_P56471	NM_007912
G protein-coupled receptor 98	Gpr98	-3.98	0.00	A_51_P389539	NM_054053
4short chain dehydrogenase/reductase family 9C, member 7	Sdro	-4.03	0.00	A_51_P319289	NM_027301
metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)	Malat1	-4.05	0.00	A_52_P416123	AK020483
nudix (nucleoside diphosphate linked moiety X)-type motif 7	Nudt7	-4.19	0.36	A_52_P136914	NM_024437
ankyrin repeat and KH domain containing 1; eukaryotic translation initiation factor 4E binding protein 3	Eif4eb p3	-4.20	0.13	A_52_P278497	NM_201256
solute carrier family 22 (organic anion transporter), member 7	Slc22a 7	-4.20	0.00	A_51_P395856	NM_144856
phospholipid scramblase 2	Plscr2	-4.32	0.00	A_51_P251022	NM_008880

acetyl-Coenzyme A carboxylase beta	Acacb	-4.33	0.00	A_51_P239236	BC022940
CTAGE family, member 5	Mgea6	-4.34	0.00	A_52_P471088	NM_146034
predicted gene 1966; predicted gene 8995; GTPase, very large interferon inducible 1	Gvin1	-4.39	0.44	A_52_P251690	NM_029000
cytochrome P450, family 8, subfamily b, polypeptide 1	Cyp8b1	-4.40	0.00	A_51_P266618	NM_010012
cysteine and glycine-rich protein 3	Csrp3	-4.49	0.00	A_51_P133684	NM_013808
cullin 4A	Cul4a	-4.54	0.00	A_51_P435251	NM_146207
formiminotransferase cyclodeaminase	Ftcd	-4.69	0.00	A_51_P413740	NM_080845
neurexin I	Nrxn1	-4.80	0.36	A_52_P121342	AK045351
C-type lectin domain family 4, member f	Clec4f	-4.94	0.00	A_51_P271865	NM_016751
DnaJ (Hsp40) homolog, subfamily C, member 1	Dnajc1	-5.14	0.00	A_51_P159895	NM_007869
sushi domain containing 4	Susd4	-5.34	0.24	A_51_P252000	NM_144796
V-set and immunoglobulin domain containing 4	Vsig4	-5.53	0.00	A_51_P128834	NM_177789
RIKEN cDNA C730036E19 gene	C730036E19Rik	-5.61	0.00	A_52_P972003	AK050309
NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1; predicted gene 4459	Ndufab1	-5.90	0.00	A_52_P1093473	NM_028177
IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae)	Immp2l	-6.33	0.36	A_52_P517063	NM_053122
complement component 6	C6	-6.46	0.36	A_51_P449995	NM_016704
family with sequence similarity 158, member A	1500005A01Rik	-7.51	0.00	A_51_P272147	NM_033146
similar to cytochrome P450; cytochrome P450, family 2, subfamily c, polypeptide 54	Cyp2c54	-7.60	0.00	A_52_P154580	NM_206537
CD163 antigen	Cd163	-8.05	0.00	A_51_P231042	NM_053094
glial cell line derived neurotrophic factor family receptor alpha 1	Gfra1	-8.83	0.00	A_52_P398998	NM_010279
serine (or cysteine) peptidase inhibitor, clade A, member 4, pseudogene 1	Serpina4-ps1	-10.35	0.36	A_52_P677262	BC031891
elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	Elovl3	-12.66	0.23	A_51_P324633	NM_007703
complement factor D (adipsin)	Cfd	-13.06	0.92	A_51_P156955	NM_013459

solute carrier organic anion transporter family, member 1a1	Slco1a1	-22.38	0.00	A_51_P165111	NM_013797
solute carrier organic anion transporter family, member 1a1	Slco1a1	-27.44	0.00	A_51_P103144	AY195869
expressed sequence AU018778	AU018778	-28.68	0.00	A_51_P178772	NM_144930

* Agilent ID. ** Refseq mRNA accession number (http://www.ncbi.nlm.nih.gov**).** Original microarray data are available at Gene expression omnibus (www.ncbi.nlm.nih.gov/projects/geo) under the accession number GSEXXXX

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