

Classification of genes showing increased expression in GFAP transgenic mice

| Immune Response | | | | | | | | |
|--|------|------|-------|------|------|-------|---|--|
| | 23d | | | 4mo | | | | |
| Affy ID | Rank | Ave | StDev | Rank | Ave | StDev | Gene | |
| <u>Cytokines and Receptors</u> | | | | | | | | |
| 95348_at | 18 | 15.1 | 6.9 | 18 | 9.7 | 5.0 | Cxcl1: chemokine (C-X-C motif) ligand 1 (Scyb 1) | |
| 95349_g_at | 10 | 6.5 | 4.0 | 18 | 29.5 | 3.6 | Cxcl1: chemokine (C-X-C motif) ligand 1 (Scyb 1) | |
| 160511_at | | | | 18 | 2.0 | 0.1 | Cxcl12: chemokine (C-X-C motif) ligand 12 | |
| 102736_at | 18 | 50.1 | 34.3 | 18 | 87.6 | 51.4 | Ccl2: chemokine (C-C motif) ligand 2 (Scya 2, Mcp1) | |
| 98406_at | | | | 18 | 12.0 | 4.5 | Ccl5: chemokine (C-C motif) ligand 5 (Scya 5, Rantes) | |
| 92459_at | | | | 18 | 16.2 | 9.7 | Ccl8: chemokine (C-C motif) ligand 8 (Scya 8, Mcp2) | |
| 104388_at | 12 | 1.9 | 0.5 | 18 | 5.4 | 2.7 | Ccl9: chemokine (C-C motif) ligand 9 (Scya9, Scya10) | |
| 92742_at | | | | 18 | 12.2 | 7.6 | Ccl11: chemokine (C-C motif) ligand 11 (Scya 11) | |
| 93717_at | | | | 18 | 23.5 | 7.6 | Ccl12: chemokine (C-C motif) ligand 12 (Scya 12) | |
| 99413_at | | | | 18 | 8.8 | 6.0 | Ccr1: chemokine (C-C motif) receptor 1, MIP1alpha Receptor | |
| 161968_f_at | 18 | 2.6 | 0.7 | 18 | 4.2 | 0.6 | Ccr5: chemokine (C-C motif) receptor 5 | |
| 95335_at | 11 | 1.5 | 0.3 | 18 | 2.3 | 0.2 | Cx3cr1: chemokine (C-X3-C) receptor 1 | |
| 98008_at | | | | -18 | -1.7 | 0.1 | Cx3cl1: chemokine (C-X3-C motif) ligand 1 | |
| 161046_at | | | | 18 | 3.1 | 0.4 | Crif1: cytokine receptor-like factor 1 | |
| 102255_at | 18 | 3.5 | 0.7 | 18 | 10.7 | 2.1 | Osmr: oncostatin receptor | |
| 104354_at | 18 | 1.9 | 0.1 | 18 | 4.6 | 0.3 | Csf1r: colony stimulating factor 1 receptor | |
| 92793_at | 10 | 1.5 | 0.3 | 18 | 2.8 | 0.4 | Tnfrsf1a: tumor necrosis factor receptor superfamily, member 1a | |
| 101918_at | | | | 18 | 2.1 | 0.6 | Tgfb1: transforming growth factor, beta 1 | |
| 102021_at | | | | 18 | 9.7 | 3.0 | Il4ra: interleukin 4 receptor, alpha | |
| 99491_at | | | | 18 | 2.1 | 0.2 | Il10rb: interleukin 10 receptor, beta | |
| 100552_at | | | | 18 | 1.8 | 0.4 | Ifngr: interferon gamma receptor | |
| 97689_at | | | | 18 | 1.7 | 0.1 | F3: coagulation factor III; TF (tissue factor) | |
| <u>MHC associated</u> | | | | | | | | |
| 93714_f_at | 18 | 3.6 | 2.5 | 18 | 6.3 | 1.9 | H2-L: histocompatibility 2, L region (MHC class I) | |
| 93120_f_at | 18 | 2.0 | 0.2 | 18 | 5.5 | 0.5 | H2-K: histocompatibility 2, K region (MHC class I) | |
| 99379_f_at | 10 | 1.7 | 0.4 | 18 | 3.3 | 0.5 | H2-K: histocompatibility 2, K region (MHC class I) | |
| 97540_f_at | 18 | 1.9 | 0.1 | 18 | 5.0 | 0.2 | H2-D1: histocompatibility 2, D region locus 1 (MHC class I) | |
| 97541_f_at | 16 | 1.7 | 0.4 | 18 | 4.8 | 1.0 | H2-D1: histocompatibility 2, D region locus 1 (MHC class I) | |
| 101886_f_at | 18 | 1.6 | 0.1 | 18 | 5.0 | 0.4 | H2-D1: histocompatibility 2, D region locus 1 (MHC class I) | |
| 102161_f_at | 18 | 1.6 | 0.2 | 18 | 4.5 | 0.2 | H2-Q2: histocompatibility 2, Q region locus 2 (MHC class I) | |
| 98438_f_at | 18 | 1.5 | 0.2 | 18 | 4.8 | 0.5 | H2-Q7: histocompatibility 2, Q region locus 7b (MHC class I) | |
| 97125_f_at | 18 | 2.6 | 0.6 | 18 | 4.7 | 0.6 | LOC56628: MHC (A.CA/J(H-2K-f) class I antigen | |
| 93088_at | 18 | 2.0 | 0.3 | 18 | 5.1 | 0.4 | B2m: beta-2 microglobulin | |
| 101653_f_at | | | | 18 | 10.2 | 5.3 | H2-D4: histocompatibility 2, D region locus 4 (MHC class I) | |
| 97173_f_at | | | | 18 | 10.1 | 7.3 | H2-K2: histocompatibility 2, K region locus 2 (MHC class I) | |
| 99378_f_at | | | | 18 | 3.1 | 0.2 | H2-Q1: histocompatibility 2, Q region locus 1 (MHC class I) | |
| 93865_s_at | | | | 18 | 2.3 | 0.3 | H2-T10: histocompatibility 2, T region locus 10 (MHC class I) | |
| 98472_at | | | | 18 | 3.7 | 0.3 | H2-T23: histocompatibility 2, T region locus 23 (MHC class I) | |
| 101876_s_at | | | | 18 | 2.2 | 0.2 | H2-T17: histocompatibility 2, T region locus 17 (MHC class I) | |
| 101510_at | | | | 18 | 2.0 | 0.1 | Psme1: proteasome (prosome, macropain) 28 subunit, alpha | |
| 100588_at | | | | 18 | 1.5 | 0.1 | Psme2: proteasome (prosome, macropain) 28 subunit, beta | |
| 100154_at | 12 | 1.3 | 0.1 | 18 | 2.3 | 0.2 | Tapbp: TAP binding protein | |
| 103035_at | | | | 18 | 2.1 | 0.3 | Tap1: transporter 1, ATP-binding cassette, sub-family B, (MDR/TAP) | |
| 101054_at | 18 | 2.2 | 0.5 | 18 | 13.1 | 2.0 | Ii: Ia-associated invariant chain, MHC II | |
| 92866_at | 18 | 14.1 | 3.2 | 18 | 41.9 | 6.9 | H2-Aa: histocompatibility 2, class II antigen A, alpha | |
| 100998_at | | | | 18 | 9.7 | 3.1 | H2-Ab1: histocompatibility 2, class II antigen A, beta 1 | |
| 93092_at | | | | 18 | 3.0 | 0.8 | H2-DMa: histocompatibility 2, class II, locus DMA | |
| 98035_g_at | | | | 18 | 2.8 | 0.6 | H2-DMb1: histocompatibility 2, class II, locus Mb1 | |
| <u>Complement / Acute Phase Response</u> | | | | | | | | |
| 98562_at | 18 | 2.6 | 0.3 | 18 | 8.9 | 0.8 | C1qa: complement component 1, q subcomponent, alpha polypeptide | |
| 96020_at | 18 | 3.4 | 0.4 | 18 | 10.7 | 0.8 | C1qb: complement component 1, q subcomponent, beta polypeptide | |
| 92223_at | 18 | 2.2 | 0.4 | 18 | 8.7 | 0.8 | C1qc: complement component 1, q subcomponent, c polypeptide | |
| 93497_at | 18 | 2.2 | 0.5 | 18 | 8.7 | 2.3 | C3: complement component 3 | |
| 103033_at | 18 | 2.3 | 0.2 | 18 | 6.9 | 0.9 | C4: complement component 4 | |
| 103707_at | 14 | 2.2 | 0.6 | 18 | 5.8 | 1.3 | C3ar1: complement component 3a receptor 1 | |
| 101853_f_at | 14 | 1.4 | 0.2 | 18 | 2.9 | 0.3 | Cfh: complement component factor h | |
| 94743_f_at | 10 | 1.1 | 1.3 | 18 | 2.4 | 0.7 | Cfh: complement component factor h | |
| 92731_at | 16 | 4.1 | 2.1 | 18 | 5.4 | 2.1 | Ptx3: pentraxin related gene (TSG-14) | |
| 99927_at | | | | 18 | 11.0 | 5.3 | Cfi: complement component factor i | |
| 104308_at | | | | 18 | 2.1 | 0.4 | Itgax: integrin alpha X; Cd11c (complement receptor 4 = Cd11c/Cd18) | |
| 101516_at | | | | 18 | 2.0 | 0.1 | Cd59a: CD59a antigen (Membrane attack complex inhibition factor) | |
| 99071_at | | | | 18 | 2.9 | 0.4 | Mpeg1: macrophage expressed gene 1; Mpg1 (membrane attack complex) | |

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|------------|--|----|-----|-----|---|
| 95597_at | | 18 | 2.9 | 0.4 | Ptgs1: prostaglandin-endoperoxide synthase 1 (Cox-1) |
| 92401_at | | 18 | 2.4 | 0.4 | Ltc4s: leukotriene C4 synthase |
| 97763_at | | 18 | 8.4 | 1.7 | Ncf1: neutrophil cytosolic factor 1, (p47phox, superoxide-generating NADPH oxidase) |
| 97013_f_at | | 18 | 4.5 | 0.6 | Cyba: cytochrome b-245, alpha polypeptide (p22-phox) |
| 100059_at | | 18 | 3.9 | 0.3 | Cyba: cytochrome b-245, alpha polypeptide (p22-phox) |

Interferon induced

| | | | | | | | |
|-------------|----|-----|-----|----|------|------|--|
| 98822_at | 16 | 2.4 | 0.5 | 18 | 4.5 | 1.3 | Isg15: interferon-stimulated protein (15kD ubiquitin-like protein) |
| 103639_at | 14 | 1.7 | 0.4 | 18 | 3.7 | 1.1 | Ifit2: interferon-induced protein with tetratricopeptide repeats 2 |
| 94774_at | | | | 18 | 58.2 | 49.4 | Ifi202b: interferon activated gene 202B |
| 100981_at | | | | 18 | 12.2 | 8.6 | Ifit1: interferon-induced protein with tetratricopeptide repeats 1 |
| 97444_at | | | | 18 | 5.8 | 4.6 | Ifi30: interferon gamma inducible protein 30 (lysosomal thio reductase IP30 precursor) |
| 102906_at | | | | 18 | 4.4 | 2.7 | Tgtp: T-cell specific GTPase (INF inducible in macrophages) |
| 161511_f_at | | | | 18 | 4.3 | 1.4 | Isg15: interferon-stimulated protein (15kD ubiquitin-like protein) |
| 93956_at | | | | 18 | 3.5 | 0.6 | Ifit3: Interferon-induced protein with tetratricopeptide repeats 3 |
| 96764_at | | | | 18 | 3.4 | 0.7 | lisp-pending: interferon-inducible GTPase |
| 97409_at | | | | 18 | 2.3 | 0.3 | Ifi1: interferon inducible protein 1 |

Adhesion

| | | | | | | | |
|-------------|----|-----|-----|----|------|------|---|
| 94939_at | 15 | 2.2 | 0.8 | 18 | 7.9 | 2.0 | Cd53: CD53 antigen |
| 103005_s_at | 13 | 5.8 | 3.8 | 18 | 14.3 | 5.6 | Cd44: CD44 antigen |
| 160493_at | 11 | 1.3 | 0.1 | 18 | 2.7 | 0.1 | Cd63: Cd63 antigen |
| 99669_at | 18 | 1.7 | 0.3 | 18 | 4.4 | 0.4 | Lgals1: lectin, galactose binding, soluble 1 (galectin-1) |
| 98828_at | | | | 18 | 13.3 | 5.7 | Itgam: integrin alpha M, (Mac1, CD11b) |
| 95706_at | | | | 18 | 16.4 | 10.4 | Lgals3: lectin, galactose binding, soluble 3 (Mac2, Galectin-3) |
| 97507_at | | | | 18 | 3.8 | 0.5 | Ppicap: peptidylprolyl isomerase C-associated protein |
| 102353_at | | | | 18 | 11.9 | 11.3 | Itgb2: integrin beta 2 (Mac1 CD18) |
| 100325_at | | | | 18 | 11.9 | 5.3 | Gp49a: glycoprotein 49 A |
| 97519_at | | | | 18 | 5.2 | 0.6 | Spp1: Secreted phosphoprotein 1 (osteopontin) |
| 103040_at | | | | 18 | 6.7 | 6.3 | CD83 antigen |
| 104606_at | | | | 18 | 6.0 | 1.1 | Cd52: CD52 antigen |
| 103016_s_at | | | | 18 | 5.8 | 0.6 | Cd68: CD68 antigen, macrosialin |
| 95661_at | | | | 18 | 2.8 | 0.1 | Cd9: CD9 antigen |

Proteases

| | | | | | | | |
|------------|----|-----|-----|-----|------|------|--|
| 93981_at | 12 | 1.4 | 0.1 | 18 | 2.2 | 0.2 | Plat: plasminogen activator, tissue |
| 95338_s_at | | | | 18 | 14.4 | 7.8 | Mmp12: matrix metalloproteinase 12 (macrophage elastase) |
| 95339_r_at | | | | 18 | 5.9 | 1.2 | Mmp12: matrix metalloproteinase 12 (macrophage elastase) |
| 97949_at | | | | 18 | 2.2 | 0.4 | Fgl2: fibrinogen-like protein 2 |
| 96912_s_at | | | | 18 | 1.7 | 0.1 | Ctla2a: cytotoxic T lymphocyte-associated protein 2 alpha |
| 92353_at | | | | 18 | 61.0 | 13.3 | Prss18: protease, serine, 18 |
| 99813_g_at | | | | 18 | 3.3 | 0.4 | Capn3: calpain 3 |
| 100610_at | | | | 18 | 1.5 | 0.1 | Capns1: calpain, small subunit 1 |
| 101055_at | | | | 18 | 2.3 | 0.2 | Ppgb: protective protein for beta-galactosidase |
| 93085_at | | | | 18 | 7.9 | 5.1 | Psmb9: proteosome (prosome, macropain) subunit, beta type 9 (large multifunctional protease 2) |
| 102791_at | | | | 18 | 6.1 | 1.6 | Psmb8: proteosome (prosome, macropain) subunit, beta type 8 (large multifunctional protease 7) |
| 95024_at | | | | 18 | 11.9 | 4.5 | Usp18: ubiquitin specific protease 18 |
| 102279_at | | | | 18 | 2.2 | 0.8 | 1300004C08Rik: RIKEN cDNA; ubiquitin-activating enzyme E1-like |
| 101995_at | 14 | 1.3 | 0.1 | 14 | 1.4 | 0.1 | Sqstm1: sequestosome 1 |
| 102002_at | | | | -18 | -1.5 | 0.1 | Ubqln2: ubiquilin 2 |

Lysosomal Proteins

| | | | | | | | |
|-------------|----|------|-----|----|-------|------|--|
| 101753_s_at | 18 | 15.2 | 7.4 | 18 | 210.7 | 35.1 | Lzp-s: P lysozyme structural |
| 100611_at | 18 | 3.8 | 1.3 | 18 | 19.4 | 5.2 | Lyzs: Lysozyme M |
| 99562_at | 12 | 1.5 | 0.2 | 18 | 3.6 | 0.3 | mannosidase 2, alpha B1 |
| 100136_at | 16 | 1.4 | 0.1 | 18 | 2.6 | 0.3 | p2: lysosomal membrane glycoprotein 2 |
| 93261_at | 14 | 1.5 | 0.1 | 18 | 2.4 | 0.2 | Lgmn: legumain |
| 101019_at | 18 | 3.4 | 0.8 | 18 | 8.6 | 0.8 | Ctsc: cathepsin C |
| 98543_at | 18 | 2.8 | 0.2 | 18 | 8.4 | 0.6 | Ctss: cathepsin S |
| 92633_at | 18 | 1.9 | 0.3 | 18 | 5.2 | 0.5 | Ctsz: cathepsin Z |
| 93810_at | 10 | 1.3 | 0.1 | 18 | 4.4 | 0.4 | Ctsd: cathepsin D |
| 101963_at | 10 | 1.2 | 0.1 | 18 | 2.1 | 0.1 | Ctsl: cathepsin L |
| 94834_at | | | | 18 | 6.8 | 4.3 | Ctsh: cathepsin H |
| 95608_at | | | | 18 | 2.0 | 0.2 | Ctsb: cathepsin B |
| 94831_at | | | | 18 | 2.7 | 0.1 | Ctsb: cathepsin B |
| 100012_at | | | | 18 | 5.1 | 1.7 | Laptm5: lysosomal-associated protein transmembrane 5 |
| 161819_f_at | | | | 18 | 2.7 | 0.3 | Laptm5: lysosomal-associated protein transmembrane 5 |
| 96876_at | | | | 18 | 1.5 | 0.1 | Laptm4a: lysosomal-associated protein transmembrane 4A |
| 94330_at | | | | 18 | 3.8 | 1.1 | Npl: N-acetylneuraminate pyruvate lyase (neuraminic acid aldolase) |
| 97538_at | | | | 18 | 2.9 | 0.3 | Gus: beta-glucuronidase |
| 94840_at | | | | 18 | 2.2 | 0.2 | Hexa: hexosaminidase A (TaySachs disease) |
| 160089_at | | | | 18 | 1.5 | 0.1 | Lamp1: lysosomal membrane glycoprotein 1 |

| | | | | |
|---|----|-----|--------------|---|
| 101590_at | 18 | 1.9 | 0.1 | Lamp2: lysosomal membrane glycoprotein 2 |
| 98931_at | 18 | 1.8 | 0.2 | GNS: glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID) |
| 93373_at | 18 | 1.7 | 0.2 | Naglu: alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB) |
| 93835_at | 18 | 1.7 | 0.2 | 0610025O11Rik: RIKEN cDNA, similar to alpha-L-fucosidase precursor (Fucosidosis: lysosomal storage disease) |
| 94301_at | 18 | 1.6 | 0.1 | Atp6v0e: ATPase, H+ transporting, V0 subunit |
| 160789_at | 18 | 1.5 | 0.1 | 9530090G24Rik: RIKEN cDNA, putative alpha-mannosidase |
| Signal transduction | | | | |
| 102330_at | 10 | 3.8 | 2.5 | 18 5.0 1.2 Aif1: allograft inflammatory factor 1 |
| 94425_at | 18 | 2.5 | 0.4 | 18 5.2 0.6 Ly86: lymphocyte antigen 86 (MD-1) |
| 100397_at | 18 | 2.0 | 0.3 | 18 10.7 1.9 Tyrobp: TYRO protein tyrosine kinase binding protein (DAP12) |
| 102337_s_at | 11 | 7.7 | 4.0 | 18 36.0 22.9 Fcgr2b: Fc receptor, IgG, low affinity IIb |
| 101793_at | | | | 18 27.5 6.9 Fcgr1: Fc receptor, IgG, high affinity I |
| 102879_s_at | | | | 18 2.9 0.3 Fcgr1: Fc receptor, IgG, high affinity I |
| 101048_at | | | | 18 19.0 10.4 Ptprc: protein tyrosine phosphatase, receptor type, C (CD45) |
| 101298_g_at | | | | 18 11.9 3.7 Ptprc: protein tyrosine phosphatase, receptor type, C (CD45) |
| 103507_at | | | | 18 5.0 3.0 Emr1: EGF-like module containing, mucin-like, hormone receptor-like sequence 1 |
| 101487_f_at | | | | 18 2.7 0.2 Ly6e: lymphocyte antigen 6 complex, locus E |
| 98088_at | | | | 18 1.8 0.3 Cd14: CD14 antigen; LPS receptor |
| 99799_at | | | | 18 9.0 7.1 Vav: vav oncogene |
| 96511_s_at | | | | 18 3.1 1.2 Vav: vav oncogene |
| 104597_at | | | | 18 7.0 1.8 Gbp2: guanylate nucleotide binding protein 2 |
| 103202_at | | | | 18 3.7 0.6 Gbp3: guanylate nucleotide binding protein 3 |
| 98410_at | | | | 18 1.9 0.4 Gtpi-pending: interferon-g induced GTPase |
| 97963_at | | | | 18 7.8 1.3 Sipa1: signal-induced proliferation associated gene 1 |
| 92471_i_at | | | | 18 8.4 1.6 Slfn2: schlafen 2 |
| 99461_at | | | | 18 7.4 4.2 Hcls1: hematopoietic cell specific Lyn substrate 1 |
| 102851_s_at | | | | 18 4.4 2.4 Hcph: hemopoietic cell phosphatase (SHP1) |
| 93483_at | | | | 18 4.2 0.4 Hck: hemopoietic cell kinase |
| 99509_s_at | | | | 18 2.3 0.3 Jak3: Janus kinase 3 |
| 161817_f_at | | | | 18 3.3 0.8 SSB1: SPRY domain-containing SOCS box protein SSB-1 (4930422J18Rik) |
| 100771_at | | | | 18 3.3 1.1 Blink: B-cell linker, (Ly57) |
| 100772_g_at | | | | 18 2.7 0.6 Blink: B-cell linker, (Ly57) |
| 94061_at | | | | 18 2.0 0.3 Crip: cysteine rich intestinal protein |
| Transcription | | | | |
| 160894_at | 18 | 3.1 | 0.5 | 18 7.6 0.4 Cebpd: CCAAT/enhancer binding protein (C/EBP), delta |
| 92925_at | 18 | 1.9 | 0.2 | 18 3.5 0.7 Cebpb: CCAAT/enhancer binding protein (C/EBP), beta |
| 100468_g_at | 10 | 1.8 | 0.4 | 18 4.2 0.7 Lyl1: lymphoblastomic leukemia (T-cell transcription factor) |
| 98030_at | | | | 18 12.8 6.0 Trim30: tripartite motif protein 30 |
| 102641_at | | | | 18 2.6 0.5 Sfpi1: SFFV proviral integration 1; PU.1 |
| 98002_at | | | | 18 2.7 0.4 Icsbp: interferon consensus sequence binding protein |
| 103634_at | | | | 18 2.4 0.3 Isgf3g: interferon dependent positive acting transcription factor 3 gamma |
| 101465_at | | | | 18 1.9 0.2 Stat1: signal transducer and activator of transcription 1 |
| 99100_at | | | | 18 2.0 0.1 Stat3: signal transducer and activator of transcription 3 |
| 94331_at | | | | 18 2.3 0.4 Stat6: signal transducer and activator of transcription 6 |
| 92232_at | | | | 18 12.0 6.3 Soc3: suppressor of cytokine signaling 3 |
| 162206_f_at | | | | 18 6.4 2.2 Soc3: suppressor of cytokine signaling 3 |
| 98427_s_at | | | | 18 1.7 0.1 Nfkbia: nuclear factor of kappa light chain gene enhancer in B-cells 1, p105 |
| Stress Response | | | | |
| Detoxification / Antioxidant / Reducing proteins | | | | |
| 100068_at | 18 | 4.0 | 0.5 | 18 8.0 0.8 Aldh1a1: aldehyde dehydrogenase family 1, subfamily A1 |
| 102094_f_at | 18 | 2.1 | 0.2 | 18 2.6 0.1 Gstm1: glutathione S-transferase, mu 1 |
| 93543_f_at | 18 | 1.9 | 0.1 | 18 2.5 0.2 Gstm1: glutathione S-transferase, mu 1 |
| 97681_f_at | 18 | 1.7 | 0.2 | 18 1.9 0.2 Gstm3: glutathione S-transferase, mu 3 |
| 100629_at | | | -18 -1.4 0.1 | Gstm5: glutathione S-transferase, mu 5 |
| 99583_at | 18 | 1.4 | 0.1 | 18 1.4 0.0 Gstp2: glutathione S-transferase, pi 2 |
| 96085_at | 18 | 2.0 | 0.6 | 18 2.2 0.6 Gsta4: glutathione S-transferase, alpha 4 |
| 101676_at | 14 | 1.7 | 0.2 | 18 2.4 0.4 Gpx3: glutathione peroxidase 3 |
| 160646_at | | | | 16 1.5 0.1 Gsr: glutathione reductase 1 |
| 160335_at | 12 | 1.5 | 0.2 | 14 1.7 0.2 Gclm: glutamate-cysteine ligase , modifier subunit |
| 97758_at | 16 | 1.3 | 0.1 | 18 1.8 0.1 Prdx1: peroxiredoxin 1 |
| 97055_s_at | 18 | 1.3 | 0.1 | 18 1.7 0.1 Prdx1: peroxiredoxin 1 |
| 100332_s_at | 18 | 2.0 | 0.1 | 18 3.0 0.1 Prdx6: peroxiredoxin 6 |
| 100622_at | 18 | 1.8 | 0.1 | 18 2.5 0.1 Prdx6: peroxiredoxin 6 |
| 99985_at | 18 | 1.8 | 0.1 | 18 2.2 0.1 Txnrd1: thioredoxin reductase 1 |
| 160547_s_at | 17 | 1.8 | 0.3 | 18 2.1 0.1 Txnip: thioredoxin interacting protein |
| 93573_at | 18 | 2.0 | 0.2 | Mt1: metallothionein 1 |
| 101561_at | 18 | 1.9 | 0.3 | Mt2: metallothionein 2 |
| 95340_at | 17 | 1.4 | 0.2 | Mt3: metallothionein 3 |

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|--|----|------|------|-----|------|------|--|
| 160479_at | 14 | 1.5 | 0.3 | 13 | 1.5 | 0.2 | Cat: catalase |
| 94351_r_at | 13 | 1.7 | 0.3 | 17 | 3.8 | 1.0 | Nqo1: NAD(P)H dehydrogenase, quinone 1 |
| 94350_f_at | | | | 18 | 2.4 | 0.9 | Nqo1: NAD(P)H dehydrogenase, quinone 1 |
| 94284_at | 18 | 1.5 | 0.2 | 18 | 1.9 | 0.1 | Dia1: diaphorase 1 (NADH); NADH-cytochrome b5 reductase |
| 101587_at | 18 | 8.7 | 2.5 | 18 | 6.4 | 3.3 | Ephx1: epoxide hydrolase 1, microsomal |
| 94515_at | 12 | 2.6 | 1.1 | 18 | 4.4 | 2.3 | Sqrld: sulfide quinone reductase-like |
| 98440_at | 18 | 3.7 | 1.2 | 18 | 4.2 | 1.2 | Ltb4dh: leukotriene B4 12-hydroxydehydrogenase |
| 97950_at | | | | 18 | 3.3 | 0.6 | Xdh: xanthine dehydrogenase |
| 93843_at | 14 | 1.6 | 0.2 | 18 | 2.4 | 0.1 | Dhrs1: dehydrogenase/reductase (SDR family) member 1 |
| 93351_at | | | | 18 | 2.2 | 0.5 | Hpgd: hydroxyprostaglandin dehydrogenase 15 (NAD) |
| 104378_at | | | | 18 | 1.8 | 0.2 | Pon2: paraoxonase 2 |
| NADPH metabolism | | | | | | | |
| 95066_at | 14 | 1.3 | 0.1 | 18 | 2.0 | 0.2 | Taldo1: transaldolase 1 |
| 101294_g_at | | | | 18 | 1.6 | 0.2 | G6pd2: glucose-6-phosphate dehydrogenase 2 |
| 95147_at | | | | 18 | 1.4 | 0.1 | Pgls: 6-phosphogluconolactonase |
| Iron Homeostasis | | | | | | | |
| 92851_at | 18 | 5.0 | 1.4 | 18 | 11.7 | 2.3 | Cp: ceruloplasmin |
| 104014_at | | | | 18 | 2.7 | 0.4 | Hfe: hemochromatosis |
| 99872_s_at | 18 | 1.3 | 0.1 | 18 | 1.9 | 0.1 | Ftl1: ferritin light chain 1 |
| 103085_at | | | | 18 | 1.9 | 0.3 | Hebp1: heme binding protein 1 |
| 94794_at | 18 | 1.4 | 0.0 | 18 | 1.8 | 0.0 | Fth: ferritin heavy chain |
| 160564_at | 14 | 10.8 | 10.7 | 18 | 11.9 | 3.4 | Lcn2: Lipocalin 2 |
| 96562_at | | | | 18 | 5.4 | 1.9 | Slc11a1: solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 |
| Proteases Inhibitors | | | | | | | |
| 104486_at | 18 | 6.4 | 4.2 | 18 | 17.0 | 19.8 | A2m: alpha-2-macroglobulin |
| 94833_at | 12 | 1.6 | 0.4 | 18 | 2.8 | 0.9 | Fstl: follistatin-like |
| 104374_at | 18 | 1.9 | 0.1 | 18 | 5.4 | 0.4 | Serpin a3n: serine (or cysteine) proteinase inhibitor |
| 93574_at | 16 | 1.4 | 0.1 | 18 | 1.9 | 0.2 | Serpinf1: alpha-2 antiplasmin; serine (or cysteine) proteinase inhibitor, clade F, member 1 |
| 99081_at | 15 | 1.5 | 0.3 | 18 | 5.7 | 1.0 | Serpin g1: serine (or cysteine) proteinase inhibitor (C1 inhibitor) |
| 94817_at | | | | 18 | 2.3 | 0.2 | Serpinh1: serine (or cysteine) proteinase inhibitor, clade H, member 1, Hsp47 |
| 96060_at | | | | 18 | 1.7 | 0.1 | Serpinp6: serine (or cysteine) proteinase inhibitor, clade B, member 6 |
| 102638_at | | | | 18 | 32.7 | 19.1 | Cst7: cystatin F (leukocystatin) |
| 100581_at | | | | 18 | 1.6 | 0.1 | Cstb: cystatin B |
| 160519_at | | | | 18 | 1.8 | 0.1 | Timp3: tissue inhibitor of metalloproteinase 3 |
| Other | | | | | | | |
| 160139_at | 18 | 2.0 | 0.3 | 18 | 2.0 | 0.3 | Cryac: crystallin, alpha C; Hsp22 |
| 162308_f_at | 10 | 1.7 | 0.4 | 13 | 2.3 | 0.3 | Cryab: crystallin, alpha B |
| 102849_at | | | | 18 | 6.2 | 4.2 | Kcnj8: potassium inwardly-rectifying channel, Kir6.1 |
| 95654_at | 9 | 1.3 | 0.1 | 18 | 2.8 | 0.4 | Clic1: chloride intracellular channel 1 |
| 97890_at | 10 | 1.3 | 0.2 | 18 | 1.6 | 0.1 | Sgk: serum/glucocorticoid regulated kinase |
| 92562_at | 18 | 1.6 | 0.1 | 18 | 2.3 | 0.2 | Nfe2l2: nuclear, factor, erythroid derived 2, like 2; Nrf2 |
| 160495_at | | | | 18 | 3.6 | 0.9 | Ahr: aryl-hydrocarbon receptor (dioxin receptor) |
| 104716_at | | | | 18 | 4.0 | 0.4 | Rbp1: retinol binding protein 1, cellular |
| 160806_at | | | | -18 | -1.7 | 0.2 | Stk39: serine/threonine kinase 39, STE20/SPS1 homolog (yeast) |
| Lipid Metabolism / Transport | | | | | | | |
| 94354_at | 18 | 1.7 | 0.4 | 18 | 1.8 | 0.1 | Abca1: ATP-binding cassette, sub-family A (ABC1), member 1 |
| 97198_at | 18 | 1.5 | 0.2 | 18 | 1.9 | 0.1 | Abca1: ATP-binding cassette, sub-family A (ABC1), member 1 |
| 93592_at | 18 | 1.7 | 0.2 | 18 | 2.9 | 0.3 | Apod: apolipoprotein D (lipocalin family) |
| 93354_at | | | | 18 | 2.3 | 0.4 | Apoc1: apolipoprotein C-I |
| 95356_at | | | | 18 | 1.5 | 0.2 | Apoe: apolipoprotein E |
| 103377_at | | | | 18 | 4.6 | 1.1 | Lrp2: low density lipoprotein receptor-related protein 2 |
| 160344_at | | | | 18 | 2.6 | 0.1 | Npc2: Niemann Pick type C2 |
| 104509_at | | | | 18 | 2.2 | 0.4 | Ch25h: cholesterol 25-hydroxylase |
| 97248_at | | | | 18 | 2.1 | 0.2 | Dbi: diazepam binding inhibitor; acyl-CoA binding protein |
| 103581_at | | | | 18 | 1.9 | 0.2 | Cte1: cytosolic acyl-CoA thioesterase 1 |
| 98589_at | | | | 18 | 1.9 | 0.3 | Adfp: adipose differentiation related protein |
| 93042_at | | | | 18 | 1.5 | 0.2 | Bzrp: benzodiazepine receptor, peripheral |
| 98967_at | | | | 18 | 1.5 | 0.1 | Fabp7: fatty acid binding protein 7, brain |
| 93754_at | | | | 18 | 1.4 | 0.1 | Ech1: enoyl coenzyme A hydratase 1, peroxisomal |
| 97511_at | | | | -18 | -1.5 | 0.1 | Mgl1: monoglyceride lipase |
| 94214_at | | | | -18 | -1.5 | 0.2 | Fabp3: fatty acid binding protein 3, muscle and heart |
| Cell Adhesion / ECM / Remodelling | | | | | | | |
| 160469_at | 18 | 2.3 | 0.6 | 18 | 4.1 | 1.3 | Thbs1: thrombospondin 1 |
| 93294_at | 18 | 2.2 | 0.4 | 10 | 1.4 | 0.2 | CTGF: connective tissue growth factor (IGFBP8) |
| 160253_at | 18 | 2.0 | 0.1 | 18 | 5.3 | 0.5 | fragilis, RIKEN cDNA 111004C05 gene (IFN-inducible) |
| 101993_at | 18 | 1.8 | 0.1 | 18 | 4.1 | 0.9 | Tnc: tenascin C |

| 162362_f_at | | | | 18 | 4.9 | 1.7 | Tnc: tenascin C |
|---------------------|-----|------|-----|-----|------|-----|--|
| 92558_at | 18 | 1.6 | 0.1 | 18 | 4.4 | 0.7 | Vcam1: vascular cell adhesion molecule 1 |
| 92559_at | | | | 18 | 4.3 | 0.6 | Vcam1: vascular cell adhesion molecule 1 |
| 92560_g_at | | | | 18 | 2.4 | 0.5 | Vcam1: vascular cell adhesion molecule 1 |
| 97160_at | 18 | 1.5 | 0.2 | 18 | 2.4 | 0.1 | Sparc: secreted acidic cysteine rich glycoprotein |
| 96038_at | 17 | 2.1 | 0.7 | 18 | 4.2 | 1.0 | Rnase4: ribonuclease, RNase A family 4 |
| 96653_at | 16 | 1.3 | 0.1 | 18 | 2.2 | 0.2 | 0610007O07Rik: RIKEN cDNA (ribonuclease) |
| 100621_at | | | | 18 | 4.2 | 2.5 | Rnh1 Ribonuclease/angiogenin inhibitor 1 |
| 100123_f_at | 12 | 1.3 | 0.1 | 18 | 2.0 | 0.1 | Itgb1: integrin beta 1 (fibronectin receptor beta) |
| 100601_at | | | | 18 | 3.3 | 0.8 | Itgb5: integrin beta 5 |
| 92593_at | | | | 18 | 19.1 | 3.7 | Osf2-pending: osteoblast specific factor 2 (fasciclin I-like) |
| 101881_g_at | | | | 18 | 14.0 | 6.0 | Col18a1: procollagen, type XVIII, alpha 1 |
| 98331_at | | | | 18 | 4.5 | 2.4 | Col3a1: procollagen, type III, alpha 1 |
| 100308_at | | | | 18 | 4.3 | 0.8 | Col8a1: procollagen, type VIII, alpha 1 |
| 92567_at | | | | 18 | 4.3 | 0.6 | Col5a2: procollagen, type V, alpha 2 |
| 99637_at | | | | 18 | 4.3 | 1.2 | Col15a1: procollagen, type XV |
| 101130_at | | | | 18 | 3.4 | 1.6 | Col1a2: procollagen, type I, alpha 2 |
| 101093_at | | | | 18 | 2.2 | 0.2 | Col4a1: procollagen, type IV, alpha 1 |
| 98398_s_at | | | | 18 | 6.5 | 4.4 | Apobec1: apolipoprotein B editing complex 1 |
| 92188_s_at | | | | 18 | 6.5 | 3.8 | Fes: feline sarcoma oncogene |
| 103499_at | | | | 18 | 6.2 | 4.5 | Vwf: Von Willebrand factor homolog |
| 92877_at | | | | 18 | 4.6 | 1.9 | Tgfb1: transforming growth factor, beta induced, 68 kDa |
| 98475_at | | | | 18 | 4.1 | 0.7 | Matn2: matrinil 2 |
| 96835_at | | | | 18 | 1.7 | 0.2 | Matn4: matrinil 4 |
| 97473_at | | | | 18 | 3.0 | 0.3 | Tm4sf7: transmembrane 4 superfamily member 7 |
| 104023_at | | | | 18 | 2.8 | 0.7 | Igsf7: immunoglobulin superfamily, member 7 |
| 93353_at | | | | 18 | 2.7 | 0.2 | Lum: lumican |
| 103088_at | | | | 18 | 2.6 | 0.6 | Chl1: close homolog of L1 |
| 160458_at | | | | 18 | 2.6 | 0.2 | Mcam: melanoma cell adhesion molecule |
| 97930_f_at | | | | 18 | 2.5 | 0.2 | Cd151: CD151 antigen |
| 93563_s_at | | | | 18 | 2.4 | 0.2 | Nid2: nidogen 2 |
| 103335_at | | | | 18 | 2.4 | 0.2 | Lgals9: lectin, galactose binding, soluble 9 (galectin 9) |
| 103488_at | | | | 18 | 2.3 | 0.1 | Selpl: selectin, platelet (p-selectin) ligand |
| 93534_at | | | | 18 | 2.2 | 0.2 | Dcn: decorin |
| 96271_at | | | | 18 | 2.1 | 0.2 | 2310075C12Rik: RIKEN cDNA similar to porimin |
| 101047_at | | | | 18 | 2.1 | 0.2 | 2410026K10Rik: RIKEN cDNA similar to MIC2, human T-cell surface glycoprotein E2 precursor |
| 104587_at | | | | 18 | 2.0 | 0.3 | Lama4: laminin, alpha 4 |
| 95016_at | | | | 18 | 1.6 | 0.1 | Nrp: neuropilin |
| 96049_at | | | | 18 | 1.6 | 0.2 | Bgn: biglycan |
| 100928_at | | | | 18 | 1.5 | 0.1 | Fbln2: fibulin 2 |
| 99010_at | -18 | -1.7 | 0.1 | NC | | | Islr: immunoglobulin superfamily containing leucine-rich repeat |
| 98549_at | -12 | -1.5 | 0.1 | -18 | -1.9 | 0.1 | Vtn: vitronectin |
| 160319_at | -10 | -1.2 | 0.1 | -18 | -1.6 | 0.1 | Sparcl1: SPARC-like 1 (mast9, hevin) |
| 92700_at | -10 | -1.3 | 0.2 | -18 | -1.5 | 0.3 | Bcan: brevican |
| 92528_at | -12 | -1.4 | 0.2 | -18 | -1.6 | 0.1 | Bai1: brain-specific angiogenesis inhibitor 1 |
| 99337_at | | | | -18 | -1.5 | 0.1 | Baiap2: brain-specific angiogenesis inhibitor 1-associated protein 2 (see also Bai1 above) |
| 99057_at | | | | -18 | -1.7 | 0.1 | Thy1: thymus cell antigen 1, theta |
| 160196_at | | | | -18 | -1.6 | 0.2 | Smap1-pending: stromal membrane-associated protein |
| 160610_at | | | | -18 | -1.5 | 0.1 | Pcdha4: protocadherin alpha 4 |
| 92714_at | | | | -18 | -1.6 | 0.2 | Icam5: intercellular adhesion molecule 5, telencephalin |
| 93326_at | | | | -18 | -1.6 | 0.1 | Tm4sf2: transmembrane 4 superfamily member 2 |
| 92293_at | | | | -18 | -1.5 | 0.1 | Nrcam: neuronal cell adhesion molecule |
| 93043_at | | | | -18 | -1.5 | 0.1 | Sdfr1: stromal cell derived factor receptor 1 |
| 92228_at | | | | -18 | -1.4 | 0.1 | Catna2: catenin alpha 2 |
| Cytoskeletal | | | | | | | |
| 94144_g_at | 18 | 1.7 | 0.3 | 18 | 4.2 | 0.5 | Gfap: glial fibrillary acidic protein |
| 94143_at | 11 | 1.7 | 0.4 | 18 | 4.0 | 0.6 | Gfap: glial fibrillary acidic protein |
| 103549_at | 18 | 1.9 | 0.1 | 18 | 4.3 | 0.6 | Nes: nestin |
| 98059_s_at | | | | 18 | 1.5 | 0.2 | Lmna: lamin A |
| 94991_at | 18 | 2.8 | 0.7 | 18 | 5.4 | 0.9 | Synpo: synaptopodin |
| 160308_at | 18 | 2.7 | 0.5 | 18 | 4.8 | 1.0 | Msn: moesin |
| 100024_at | 18 | 2.0 | 0.3 | 18 | 3.1 | 0.7 | Shrm: shroom |
| 160320_at | 18 | 1.6 | 0.2 | 18 | 1.9 | 0.1 | Sorbs1: sorbin and SH3 domain containing 1 |
| 160162_at | 18 | 1.6 | 0.1 | 18 | 2.6 | 0.2 | Tagln2: transgelin 2 |
| 160150_f_at | 18 | 1.3 | 0.0 | 18 | 2.3 | 0.2 | Cnn3: calponin 3, acidic |
| 104469_at | 12 | 1.4 | 0.3 | 18 | 3.1 | 0.4 | Gp38: glycoprotein 38 |
| 96056_at | 11 | 1.3 | 0.1 | 18 | 2.0 | 0.2 | Arhc: ras homolog gene family, member C, RhoC |
| 160311_at | 10 | 1.6 | 0.4 | 18 | 1.7 | 0.1 | PLXNB2: plexin B2 |
| 161329_f_at | 13 | 2.4 | 0.4 | 18 | 3.9 | 0.4 | Cappb1: capping protein beta 1 |
| 160106_at | | | | 18 | 6.9 | 4.5 | Capg: capping protein (actin filament), gelsolin-like |
| 93750_at | | | | 18 | 2.1 | 0.1 | Gsn: gelsolin |

| | | | | | |
|-------------|-----|------|------|-----|---|
| 99013_f_at | | 18 | 1.6 | 0.1 | Tmod3: tropomodulin 3 |
| 104602_at | | 18 | 2.2 | 0.5 | Waspip: Wasp interacting protein [D2Ert120e: DNA segment, Chr 2, ERATO Doi 120, expressed LocusID: 51890] |
| 104094_at | | 18 | 2.1 | 0.5 | Ril-pending: reversion induced LIM gene (PDZ domains) |
| 104300_at | | 18 | 2.0 | 0.2 | Iqgap1: IQ motif containing GTPase activating protein 1 |
| 100561_at | | 18 | 1.9 | 0.2 | Iqgap1: IQ motif containing GTPase activating protein 1 |
| 94910_at | | 18 | 1.8 | 0.3 | Nde1: nuclear distribution gene E homolog 1 (A nidulans) |
| 95542_at | | 18 | 1.8 | 0.1 | ESTs similar to S10623 tropomyosin 4, fibroblast - rat |
| 96426_at | | 18 | 1.8 | 0.1 | Tmsb4x: thymosin, beta 4, X chromosome |
| 100915_at | | 18 | 1.8 | 0.2 | Myh9: myosin heavy chain IX |
| 92346_at | | -10 | -2.6 | 0.6 | Nef3: neurofilament 3, medium |
| 94335_r_at | | -18 | -1.7 | 0.1 | Ina: internexin neuronal intermediate filament protein, alpha |
| 102307_at | | -18 | -2.0 | 0.1 | Dcx: doublecortin |
| 161612_f_at | | -18 | -1.6 | 0.1 | Tubb3: tubulin, beta 3 |
| 160462_f_at | | -18 | -1.3 | 0.1 | Tubb3: tubulin, beta 3 |
| 94835_f_at | | -18 | -1.3 | 0.0 | Tubb2: tubulin, beta 2 |
| 101419_at | -10 | -1.3 | 0.2 | -7 | Tubb4: tubulin, beta 4 |
| 97760_at | | -18 | -1.8 | 0.2 | Mtap2: microtubule-associated protein 2 (MAP2) |
| 102742_g_at | -12 | -1.2 | 0.2 | -18 | Mapt: microtubule-associated protein tau |
| 102431_at | | -18 | -1.5 | 0.2 | Mapt: microtubule-associated protein tau |
| 160170_at | | -18 | -1.6 | 0.1 | Stmn3: stathmin-like 3 |
| 97909_at | | -18 | -1.5 | 0.1 | Stmn1: stathmin 1 |
| 99962_at | | -18 | -1.7 | 0.2 | Kif2a: kinesin family member 2A |
| 93565_at | | -18 | -1.5 | 0.1 | Kns2: kinesin 2 |
| 100113_s_at | | -18 | -1.4 | 0.1 | Kifap3: kinesin-associated protein 3 |
| 96337_at | | -18 | -1.3 | 0.1 | Sept5: septin 5 |
| 103809_r_at | | -18 | -1.4 | 0.0 | Dncic1: dynein, cytoplasmic, intermediate chain 1 |
| 103030_at | | -18 | -1.4 | 0.2 | Dnm: dynamin |
| 103031_g_at | | -18 | -1.4 | 0.2 | Dnm: dynamin |
| 100560_at | | -18 | -1.4 | 0.1 | Pafah1b1: platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit (LIS1) |
| 104175_at | | -18 | -1.7 | 0.2 | Dlgh4: discs, large homolog 4 (Drosophila) |
| 98477_s_at | | -18 | -1.4 | 0.1 | Ank3: ankyrin 3, epithelial |
| 98476_at | | -18 | -1.3 | 0.1 | Ank3: ankyrin 3, epithelial |
| 103600_at | | -18 | -1.4 | 0.1 | Epb4.9: erythrocyte protein band 4.9 |
| 95288_i_at | | -18 | -1.9 | 0.4 | C330012F17Rik: RIKEN cDNA (homology with IF and myosin) |
| 103574_at | | -18 | -1.4 | 0.2 | 4833406P10Rik: RIKEN cDNA; ABLM1: actin binding LIM protein 1 (83% homology) |

Cell Growth / proliferation / differentiation

| | | | | | | | |
|-------------|----|-----|-----|------|-----|--|---|
| 95082_at | 18 | 6.5 | 1.8 | 18 | 8.6 | 5.8 | Igfbp3: insulin-like growth factor binding protein 3 |
| 95083_at | 18 | 5.6 | 1.5 | 18 | 5.6 | 2.0 | Igfbp3: insulin-like growth factor binding protein 3 |
| 98627_at | | | | 18 | 1.6 | 0.1 | Igfbp2: insulin-like growth factor binding protein 2 |
| 103904_at | | | -18 | -1.6 | 0.3 | Igfbp6: insulin-like growth factor binding protein 6 | |
| 100507_at | | | | 18 | 2.9 | 0.5 | Nov: nephroblastoma overexpressed gene |
| 98623_g_at | | | | 18 | 1.7 | 0.2 | Igf2: insulin-like growth factor 2 |
| 93593_f_at | | | | 18 | 1.8 | 0.2 | Emp3: epithelial membrane protein 3; Hnmp-1 (Pmp22 related tetraspanin) |
| 97426_at | | | | 18 | 2.1 | 0.4 | Emp1: epithelial membrane protein 1 |
| 99067_at | | | | 18 | 1.5 | 0.1 | Gas6: growth arrest specific 6 |
| 92607_at | | | | 18 | 3.4 | 0.5 | Mest: mesoderm specific transcript |
| 102012_at | | | | 18 | 2.7 | 0.2 | Scap2: src family associated phosphoprotein 2 |
| 98026_g_at | | | | 18 | 1.8 | 0.2 | Evi2: ecotropic viral integration site 2 |
| 101495_at | | | | 18 | 1.5 | 0.1 | Cd81: CD 81 antigen |
| 104712_at | 12 | 1.9 | 0.5 | 10 | 2.4 | 0.5 | Myc: myelocytomatosis oncogene |
| 103048_at | | | -18 | -1.5 | 0.1 | Nmyc1: neuroblastoma myc-related oncogene 1 | |
| 96596_at | | | | 18 | 1.7 | 0.2 | Ndr1: N-myc downstream regulated-like |
| 160464_s_at | | | | 18 | 1.6 | 0.2 | Ndr1: N-myc downstream regulated 1 |
| 160819_at | | | -18 | -1.5 | 0.1 | Ndr4: N-myc downstream regulated 4 | |
| 161998_f_at | | | -18 | -1.3 | 0.1 | Ndr4: N-myc downstream regulated 4 | |
| 94232_at | 18 | 1.9 | 0.2 | 18 | 4.4 | 0.7 | Ccnd1: cyclin D1 |
| 97504_at | | | | 18 | 4.0 | 3.2 | Ccnd2: cyclin D2 |
| 93066_at | 16 | 1.4 | 0.2 | 18 | 3.4 | 0.2 | Grn: granulin |
| 160846_at | 14 | 1.5 | 0.3 | 18 | 2.5 | 0.3 | Nek6: NIMA (never in mitosis gene a)-related expressed kinase 6 |
| 100475_at | | | | 18 | 1.8 | 0.1 | Trim25: tripartite motif protein 25 |
| 96207_at | | | | 18 | 1.8 | 0.3 | Rbms1: RNA binding motif, single stranded interacting protein 1 |
| 92585_at | | | -18 | -1.7 | 0.1 | Map2k1: mitogen activated protein kinase kinase 1 | |
| 92794_f_at | | | -18 | -1.5 | 0.1 | Nme1: expressed in non-metastatic cells 1, protein | |
| 99532_at | | | -18 | -1.5 | 0.1 | Tob1: transducer of ErbB-2.1 | |
| 101489_at | | | -18 | -1.4 | 0.0 | Amd1: S-adenosylmethionine decarboxylase 1 | |
| 93509_at | | | -18 | -1.4 | 0.1 | Ube2b: ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae) | |
| 103309_at | | | -18 | -1.3 | 0.1 | Frap1: FK506 binding protein 12-rapamycin associated protein 1 (mTOR) | |

| Other | | | | | | |
|--------------------------|----|-----|------|-----|--|-----|
| 96735_at | | -18 | -1.4 | 0.1 | Stard10: serologically defined colon cancer antigen 28 | |
| 160830_at | | -18 | -1.4 | 0.1 | Cnl: cornichon-like (Drosophila) | |
| 95153_at | | -18 | -1.4 | 0.1 | 2810404F18Rik: RIKEN cDNA ; SPEC2: Small Protein Effector of Cdc42 | |
| 103551_at | | -18 | -1.4 | 0.1 | 2810431N21Rik: RIKEN cDNA; PEPP2: phosphoinositol 3-phosphate-binding protein-2 | |
| 97535_at | | -18 | -1.4 | 0.1 | Ywhah: tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, 14-3-6 eta polypeptide | |
| 95716_at | | -18 | -1.2 | 0.0 | Ywhag: 3-monooxygenase/tryptophan 5-monooxygenase activation protein, 14-3-3 gamma polypeptide | |
| 97217_at | | -18 | -1.3 | 0.0 | Ahcyl1: S-adenosylhomocysteine hydrolase-like 1 (IRBIT) | |
| Transcription Regulation | | | | | | |
| 98083_at | 10 | 1.7 | 0.3 | 18 | 2.4 | 0.2 |
| | | | | 18 | 7.6 | 2.3 |
| 104381_at | | -18 | -3.4 | 1.0 | Nr1h3: nuclear receptor subfamily 1, group H, member 3 | |
| 102371_at | | -18 | -2.5 | 0.9 | Nr4a1: nuclear receptor subfamily 4, group A, member 1 | |
| 92248_at | | -18 | -2.5 | 0.9 | Nr4a2: nuclear receptor subfamily 4, group A, member 2 | |
| 93264_at | | 18 | 1.5 | 0.1 | Srebf1: sterol regulatory element binding factor 1 | |
| 101502_at | | 18 | 3.3 | 0.4 | Tgif: TG interacting factor | |
| 95627_at | | 18 | 2.1 | 0.2 | 2310058J06Rik: RIKEN cDNA; TAZ | |
| 94229_at | | 18 | 1.6 | 0.2 | 0610009M14Rik: RIKEN cDNA | |
| 94473_at | | 18 | 1.4 | 0.1 | 1810010L20Rik: RIKEN cDNA, similar to PTTG1IP: pituitary tumor-transforming 1 interacting protein | |
| 98579_at | | -18 | -2.1 | 0.5 | Egr1: early growth response 1 | |
| 101451_at | | -18 | -1.5 | 0.1 | Peg3: paternally expressed 3 | |
| 92484_at | | -18 | -1.5 | 0.1 | Hivep2: human immunodeficiency virus type I enhancer binding protein 2 | |
| 96011_at | | -18 | -1.6 | 0.2 | Matr3: matrin 3 | |
| 96012_f_at | | -18 | -1.3 | 0.0 | Matr3: matrin 3 | |
| 99465_at | | -18 | -1.3 | 0.1 | Mecp2: methyl CpG binding protein 2 (Rett syndrome) | |
| 98958_at | | -18 | -1.4 | 0.1 | 1810057B09Rik: RIKEN cDNA | |
| 103504_at | | -18 | -1.4 | 0.1 | Ssbp2: single-stranded DNA binding protein 2 | |
| 96672_at | 18 | 1.9 | 0.2 | 18 | 2.0 | 0.1 |
| 160273_at | 18 | 1.4 | 0.1 | 18 | 2.0 | 0.2 |
| 93324_at | | -18 | -1.3 | 0.0 | Zfp36l2: zinc finger protein 36, C3H type-like 2 | |
| 104050_at | | -18 | -1.4 | 0.1 | Zfp36l1: zinc finger protein 36, C3H type-like 1 | |
| 93773_f_at | | -18 | -1.3 | 0.1 | Zfr: zinc finger RNA binding protein | |
| 160696_at | | -18 | -1.3 | 0.1 | Zfp265: zinc finger protein 265 | |
| 96041_at | 12 | 1.2 | 0.8 | 16 | 1.5 | 0.2 |
| 97848_at | | -18 | -1.5 | 0.2 | Rbm3: RNA binding motif protein 3 | |
| 93147_f_at | | -18 | -1.5 | 0.1 | Rbmx: RNA binding motif protein, X chromosome | |
| 102163_at | | -18 | -1.2 | 0.1 | A23007D14Rik: RIKEN cDNA (RNA binding protein) | |
| | | | | | Smn pseudogene | |
| Chromatin Remodelling | | | | | | |
| 94288_at | 18 | 1.7 | 0.2 | 18 | 2.1 | 0.2 |
| 94805_f_at | | -18 | -1.5 | 0.1 | Hist1h1c: histone 1, H1c | |
| 93833_s_at | 14 | 1.3 | 0.1 | 18 | 1.4 | 0.1 |
| | | 12 | 1.3 | 0.1 | 1190022L06 Riken cDNA, HISTONE H2A homolog | |
| 104045_at | | -18 | -1.5 | 0.1 | Hist1h2bc: histone 1, H2bc | |
| 104654_at | | -18 | -1.5 | 0.1 | 2610102M01Rik: RIKEN cDNA | |
| 102819_at | | -18 | -1.5 | 0.1 | Actl6: actin-like 6 | |
| 101482_at | | -18 | -1.5 | 0.1 | Nap1l2: nucleosome assembly protein 1-like 2 | |
| 104390_at | | -18 | -1.4 | 0.1 | Ppp1cc: protein phosphatase 1, catalytic subunit, gamma isoform | |
| 101405_at | | -18 | -1.4 | 0.1 | Anp32a: acidic (leucine-rich) nuclear phosphoprotein 32 family, member A | |
| 162138_s_at | | -18 | -1.4 | 0.1 | Smarcd1: SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 | |
| | | | | | 1200009K17Rik: RIKEN cDNA; CBX6: chromobox homolog 6 | |
| Vesicular Trafficking | | | | | | |
| 93305_f_at | | -18 | -2.0 | 0.3 | Vamp8: vesicle-associated membrane protein 8 | |
| 100345_f_at | | -18 | -1.5 | 0.1 | Vamp8: vesicle-associated membrane protein 8 | |
| 98521_at | 10 | 1.1 | 0.8 | 9 | 1.4 | 0.1 |
| | | | | 18 | 2.1 | 0.3 |
| 104365_at | | -18 | -1.9 | 0.3 | Vamp3: vesicle-associated membrane protein 3 (cellubrevin) | |
| 160827_at | | -18 | -1.5 | 0.1 | Scamp2: secretory carrier membrane protein 2 | |
| 93336_at | | -18 | -1.8 | 0.1 | Rin2: Ras and Rab interactor 2 | |
| 101629_s_at | | -18 | -1.7 | 0.2 | 1110014C03Rik: RIKEN cDNA, homolog for TMP21: transmembrane trafficking protein | |
| 97983_s_at | | -18 | -2.0 | 0.3 | Stx1b2: syntaxin 1B2 | |
| 92673_at | | -18 | -1.5 | 0.1 | Stxbp1: syntaxin binding protein 1 | |
| 100047_at | | -18 | -1.9 | 0.3 | Sh3gl2: SH3-domain GRB2-like 2, endophilin | |
| 100455_at | | -18 | -1.5 | 0.1 | Snap25: synaptosomal-associated protein 25 | |
| 92988_i_at | | -18 | -1.8 | 0.1 | Snap91: synaptosomal-associated protein 91 | |
| 102342_at | | -18 | -1.8 | 0.4 | Cadps: Ca<2+>dependent activator protein for secretion | |
| 92952_f_at | | -18 | -1.6 | 0.2 | Nsf: N-ethylmaleimide sensitive fusion protein | |
| 93005_at | | -18 | -1.6 | 0.2 | Nabp: N-ethylmaleimide sensitive fusion protein attachment protein beta (b-SNAP) | |
| 160795_at | | -18 | -1.6 | 0.1 | Syt1: synaptotagmin 1 | |
| 98925_at | | -18 | -1.6 | 0.1 | Scamp1: secretory carrier membrane protein 1 | |
| 98926_at | | -18 | -1.5 | 0.1 | Vamp2: vesicle-associated membrane protein 2 (synaptobrevin II) | |
| | | | | | Vamp2: vesicle-associated membrane protein 2 (synaptobrevin II) | |

| | | | | |
|--------------------------|-----|------|-----|--|
| 92841_f_at | -18 | -1.6 | 0.1 | Chgb: chromogranin B |
| 101198_at | -18 | -1.6 | 0.2 | Cplx1: complexin 1 |
| 104264_at | -18 | -1.5 | 0.0 | Lrba: LPS-responsive beige-like anchor |
| 92981_at | -18 | -1.5 | 0.1 | Scg2: secretogranin II (chromogranin C) |
| 101420_at | -18 | -1.5 | 0.1 | Viaat: vesicular inhibitory amino acid transporter |
| 92989_f_at | -18 | -1.5 | 0.1 | Cadps: Ca<2+>dependent activator protein for secretion |
| 160181_at | -18 | -1.5 | 0.1 | Syp: synaptophysin |
| 160954_at | -18 | -1.4 | 0.1 | Syn2: synapsin II |
| 93281_at | -18 | -1.8 | 0.3 | Rcn2: reticulocalbin 2 |
| 160413_at | -18 | -1.7 | 0.1 | Nsg2: neuron specific gene family member 2 |
| 95523_at | -18 | -1.5 | 0.0 | Spc22: Microsomal signal peptidase 23 kDa subunit |
| 104607_at | -18 | -1.5 | 0.1 | Rtn2: reticulon 2 (Z-band associated protein) |
| 93839_at | -18 | -1.4 | 0.1 | Rtn3: reticulon 3 |
| 97077_f_at | -18 | -1.3 | 0.0 | Rtn3: reticulon 3 |
| 97358_at | -18 | -1.4 | 0.1 | Lphn1: latrophilin 1 |
| 92892_at | -18 | -1.4 | 0.1 | Vmp: vesicular membrain protein p24 |
| 94031_at | -18 | -1.4 | 0.1 | Rab2: RAB2, member RAS oncogene family |
| 96191_at | -18 | -1.4 | 0.1 | D130059B05Rik: RIKEN cDNA; BIG1: brefeldin A-inhibited guanine nucleotide-exchange protein 1 |
| 92949_at | -18 | -1.4 | 0.1 | Pacsin1: protein kinase C and casein kinase substrate in neurons 1 |
| 94464_at | -18 | -1.3 | 0.1 | Clcn3: chloride channel 3 |
| 92598_at | -18 | -1.3 | 0.1 | Atp6v1b2: ATPase, H+ transporting, V1 subunit B, isoform 2 |
| 95665_at | -18 | -1.4 | 0.1 | 1200017E04Rik: RIKEN cdNA |
| Neurotransmission | | | | |
| 92938_at | -18 | -1.6 | 0.1 | Gabra1: gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 1 |
| 101215_at | -18 | -1.8 | 0.3 | Gabra2: gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 2 |
| 99897_at | -18 | -1.8 | 0.1 | Gabbr3: gamma-aminobutyric acid (GABA-A) receptor, subunit beta 3 |
| 99342_at | -18 | -4.9 | 1.7 | Gabd: gamma-aminobutyric acid (GABA-A) receptor, subunit delta |
| 93163_at | -18 | -1.5 | 0.2 | Gabrg2: gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 2 |
| 161059_at | -18 | -1.7 | 0.1 | Gabt1: gamma-aminobutyric acid (GABA-A) transporter 1 |
| 98011_at | -18 | -1.4 | 0.1 | Gabbr1: gamma-aminobutyric acid (GABA-B) receptor, 1 |
| 103061_at | -18 | -1.5 | 0.1 | Gad1: glutamic acid decarboxylase 1 (GAD67) |
| 92899_at | -18 | -1.6 | 0.1 | Gad2: glutamic acid decarboxylase 2 (GAD65) |
| 92943_at | -9 | -1.3 | 0.1 | Gria1: glutamate receptor, ionotropic, AMPA1 (alpha 1) |
| 92945_at | -18 | -1.8 | 0.1 | Gria2: glutamate receptor, ionotropic, AMPA2 (alpha 2) |
| 92946_f_at | -18 | -1.7 | 0.1 | Gria2: glutamate receptor, ionotropic, AMPA2 (alpha 2) |
| 92947_s_at | -18 | -1.6 | 0.1 | Gria2: glutamate receptor, ionotropic, AMPA2 (alpha 2) |
| 97793_at | -18 | -1.6 | 0.2 | Gria3: glutamate receptor, ionotropic, AMPA3 (alpha 3) |
| 104747_at | -18 | -1.8 | 0.3 | Slc1a1: solute carrier family 1, member 1 |
| 161436_s_at | -18 | -1.5 | 0.0 | Adarb1: adenosine deaminase, RNA-specific, B1 |
| 104449_at | -18 | -1.6 | 0.1 | Glrb: glycine receptor, beta subunit |
| 93273_at | -18 | -1.6 | 0.1 | Snca: synuclein, alpha |
| 99441_at | -18 | -1.5 | 0.1 | Gphn: gephyrin |
| 94516_f_at | -18 | -1.7 | 0.1 | Penk1: preproenkephalin 1 |
| 96055_at | -18 | -1.5 | 0.2 | Cck: cholecystokinin |
| 100131_at | -18 | -1.4 | 0.1 | Sgne1: secretory granule neuroendocrine protein 1, 7B2 protein |
| 99642_i_at | -18 | -1.4 | 0.1 | Cpe: carboxypeptidase E |
| 103235_at | -14 | -1.3 | 0.1 | Npy: neuropeptide Y |
| 93137_at | -18 | -1.7 | 0.2 | Ntsr2: neurotensin receptor 2 |
| Neurogenesis | | | | |
| 92380_r_at | -18 | -2.3 | 0.4 | Ptpz1: protein tyrosine phosphatase, receptor type, Z polypeptide 1 (DSD-1) |
| 92379_f_at | -18 | -1.9 | 0.3 | Ptpz1: protein tyrosine phosphatase, receptor type, Z polypeptide 1 (DSD-1) |
| 160899_at | -18 | -1.9 | 0.1 | Pcp4: Purkinje cell protein 4 |
| 99494_at | -18 | -1.9 | 0.1 | Serpini1: serine (or cysteine) proteinase inhibitor, clade I, member 1 |
| 102967_at | -18 | -1.7 | 0.1 | Gdap1: ganglioside-induced differentiation-associated-protein 1 |
| 98394_at | -18 | -1.6 | 0.1 | Dlx1: distal-less homeobox 1 |
| 92332_at | -18 | -1.7 | 0.2 | Dlx2: distal-less homeobox 2 |
| 92930_at | -18 | -1.6 | 0.1 | Dlx5: distal-less homeobox 5 |
| 96703_at | -18 | -1.4 | 0.1 | Maged1: melanoma antigen, family D, 1 (Dlxin1) |
| 101461_f_at | -18 | -1.3 | 0.1 | Pja1: praja1, RING-H2 motif containing |
| 94803_at | -18 | -1.7 | 0.1 | Pbx1: pre B-cell leukemia transcription factor 1 (see also Pbx3 and Meis1) |
| 93615_at | -18 | -1.9 | 0.1 | Pbx3: pre B-cell leukemia transcription factor 3 |
| 96580_at | -18 | -1.7 | 0.2 | Pbx3: pre B-cell leukemia transcription factor 3 |
| 93616_g_at | -18 | -1.5 | 0.1 | Pbx3: pre B-cell leukemia transcription factor 3 |
| 98790_s_at | -18 | -1.8 | 0.3 | Meis1: myeloid ecotropic viral integration site 1 |
| 92271_at | -18 | -1.4 | 0.1 | Pax6: paired box gene 6 |
| 93669_f_at | -18 | -1.9 | 0.2 | Sox11: SRY-box containing gene 11 |
| 101631_at | -18 | -1.5 | 0.2 | Sox11: SRY-box containing gene 11 |
| 161049_at | -18 | -1.5 | 0.1 | Foxg1: forkhead box G1 |
| 93654_at | -18 | -1.7 | 0.2 | Fgf12: fibroblast growth factor 12 |
| 92757_at | -18 | -1.6 | 0.0 | Sez6: seizure related gene 6 |

| | | | | | |
|------------|------------|-------------|-------------|------------|---|
| 92936_at | | -18 | -1.6 | 0.1 | Cntn1: contactin 1 |
| 92702_at | | -18 | -1.6 | 0.1 | Astn1: astrotactin 1 |
| 104383_at | | -18 | -1.5 | 0.1 | Crmp1: collapsin response mediator protein 1 |
| 102009_at | | -18 | -1.5 | 0.1 | Cyfip2: cytoplasmic FMR1 interacting protein 2 |
| 95673_s_at | | -18 | -1.3 | 0.1 | Basp1: brain abundant, membrane attached signal protein 1 |
| 92546_r_at | -12 | -1.4 | 0.2 | NC | Ptgds: prostaglandin D2 synthase (brain) |
| 99407_at | | 18 | 1.5 | 0.2 | Omp: olfactory marker protein |

Channels / Ion Transporters

| | | | | | | | |
|-------------|------------|-------------|-------------|------------|--|------------|--|
| 100943_at | | 18 | 1.4 | 0.1 | Slc1a4: solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 | | |
| 99133_at | 18 | 1.4 | 0.1 | 18 | 1.8 | 0.1 | Slc3a2: solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 |
| 103818_at | | | | 18 | 6.7 | 3.7 | Slc7a7: solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 |
| 92987_at | | -18 | -1.3 | 0.1 | Slc4a3: solute carrier family 4 (anion exchanger), member 3 | | |
| 99524_at | | -18 | -1.5 | 0.2 | Slc8a1: solute carrier family 8 (sodium/calcium exchanger), member 1 | | |
| 101132_at | | | | 18 | 23.3 | 8.6 | Scn7a: sodium channel, voltage-gated, type VI, alpha polypeptide |
| 94201_at | | | | -18 | -2.0 | 0.2 | Scn1a: sodium channel, voltage-gated, type I, alpha polypeptide |
| 93040_at | 18 | 1.5 | 0.1 | 18 | 2.2 | 0.1 | Fxyd1: FXYD domain-containing ion transport regulator 1 |
| 95586_at | | | | 18 | 2.1 | 0.3 | P2rx4: purinergic receptor P2X, ligand-gated ion channel 4 |
| 103812_at | | | | 18 | 1.8 | 0.3 | Clca1: chloride channel calcium activated 1 |
| 160781_r_at | | | | 18 | 3.1 | 0.8 | Unc93b: unc93 homolog B (C. elegans) |
| 94391_at | | | | -18 | -1.8 | 0.2 | Gjb6: gap junction membrane channel protein beta 6 (connexin-30) |
| 102571_at | -16 | -1.4 | 0.1 | -18 | -1.8 | 0.3 | Gjb6: gap junction membrane channel protein beta 6 (connexin-30) |
| 98423_at | -12 | -1.3 | 0.1 | -11 | -1.3 | 0.1 | Gjb2: gap junction membrane channel protein beta 2 (connexin26) |
| 104460_at | | | | -18 | -2.1 | 0.3 | Cacna1g: calcium channel, voltage-dependent, T type, alpha 1G subunit |
| 98483_at | | | | -18 | -1.6 | 0.1 | Cacnb3: calcium channel, voltage-dependent, beta 3 subunit |
| 104510_at | | | | -18 | -1.5 | 0.1 | Cacna2d1: calcium channel, voltage-dependent, alpha2/delta subunit 1 |
| 102653_at | | | | -18 | -1.6 | 0.1 | Ryr2: ryanodine receptor 2, cardiac |
| 102892_at | | | | -18 | -1.7 | 0.2 | Kcnab2: potassium voltage-gated channel, shaker-related subfamily, beta member 2 |
| 102577_at | | | | -18 | -1.4 | 0.1 | Kcnab3: potassium voltage-gated channel, shaker-related subfamily, beta member 3 |
| 99339_r_at | | | | -18 | -1.6 | 0.3 | Kcnd2: potassium voltage-gated channel, Shal-related family, member 2 |
| 98364_at | | | | -18 | -1.6 | 0.2 | Kcnd2: potassium voltage-gated channel, Shal-related family, member 2 |
| 92522_at | | | | -18 | -1.5 | 0.2 | Kcnj4: potassium inwardly-rectifying channel, subfamily J, member 4 |
| 99449_at | | | | -18 | -1.5 | 0.2 | Kcnq2: potassium voltage-gated channel, subfamily Q, member 2 |
| 97759_at | | | | -18 | -1.5 | 0.1 | Kcnma1: potassium large conductance calcium-activated channel, subfamily M, alpha member 1 |
| 95324_at | | | | -18 | -1.7 | 0.1 | Atpb2: ATPase, Ca++ transporting, plasma membrane 2 (PCMA2) |
| 99570_s_at | | | | -18 | -1.6 | 0.1 | Atp2a2: ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 (SERCA2) |
| 161467_f_at | | | | -18 | -1.4 | 0.1 | Atp1b1: ATPase, Na+/K+ transporting, beta 1 polypeptide |
| 95012_at | | | | -18 | -1.3 | 0.0 | BocT-pending: organic cation transporter |

Calcium binding

| | | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|------------|--|
| 98600_at | 18 | 4.9 | 0.6 | 18 | 15.7 | 3.3 | S100a11: S100 calcium binding protein A11 (calizzarin) |
| 161703_f_at | 10 | 3.2 | 2.3 | 18 | 11.1 | 4.9 | Anxa1: annexin A1, (lipocortin 1) |
| 101393_at | 18 | 6.5 | 0.7 | 18 | 10.5 | 2.1 | Anxa3: annexin A3, (lipocortin 3) |
| 92770_at | 18 | 1.6 | 0.1 | 18 | 6.9 | 1.1 | S100a6: S100 calcium binding protein A6 (calcyclin) |
| 93038_f_at | 12 | 2.4 | 0.4 | 18 | 5.1 | 1.3 | Anxa1: Annexin A1, lipocortin1 |
| 104728_at | | | | 18 | 4.2 | 0.4 | Pros1: protein S (alpha) |
| 100569_at | | | | 18 | 2.7 | 0.3 | Anxa2: annexin A2; lipocortin II |
| 93083_at | | | | 18 | 1.6 | 0.1 | Anxa5: annexin A5 |
| 100959_at | | | | 18 | 1.5 | 0.1 | S100a13: S100 calcium binding protein A13 |
| 95301_at | | | | 18 | 1.4 | 0.1 | S100a5: S100 calcium binding protein A5 |
| 94278_at | | | | 18 | 3.6 | 1.2 | Lcp1: lymphocyte cytosolic protein 1 |
| 95036_at | -12 | -1.3 | 0.1 | -16 | -1.3 | 0.1 | Calb2: calbindin 2 (calretinin) |
| 95092_at | | | | -18 | -1.6 | 0.1 | Ppp3ca: protein phosphatase 3, catalytic subunit, alpha isoform (calcineurin A alpha) |
| 97989_at | | | | -17 | -1.6 | 0.2 | Ppp3cb: protein phosphatase 3, catalytic subunit, beta isoform (calcineurin A beta) |
| 99183_at | | | | -18 | -1.4 | 0.1 | Ppp3r1: protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I) |
| 100453_at | | | | -18 | -1.5 | 0.1 | Camk2b: calcium/calmodulin-dependent protein kinase II, beta |
| 92632_at | | | | -18 | -1.4 | 0.1 | Calm3: calmodulin 3 |

Myelination

| | | | | | | | |
|------------|------------|-------------|------------|------------|-------------|------------|--|
| 92802_s_at | -16 | -1.4 | 0.2 | 16 | 1.4 | 0.2 | Plp: proteolipid protein (myelin) |
| 92801_at | -10 | -1.2 | 0.1 | 14 | 1.3 | 0.1 | Plp: proteolipid protein (myelin) |
| 94057_g_at | -12 | -1.3 | 0.0 | 5 | 1.2 | 0.1 | Scd1: stearoyl-Coenzyme A desaturase 1 |
| 94056_at | -10 | -1.3 | 0.1 | 6 | 1.3 | 0.1 | Scd1: stearoyl-Coenzyme A desaturase 1 |
| 100566_at | -14 | -1.4 | 0.1 | 18 | 2.0 | 0.1 | Igfbp5: insulin-like growth factor binding protein 5 |
| 102395_at | 12 | 1.4 | 0.2 | 18 | 3.7 | 0.4 | Pmp22: peripheral myelin protein, 22 kDa (gas-3) |
| 100435_at | | | | 18 | 1.8 | 0.1 | Edg2: endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 |
| 95079_at | | | | 18 | 1.6 | 0.1 | Pdgfra: platelet derived growth factor receptor, alpha polypeptide |
| 102405_at | | | | 14 | 1.6 | 0.1 | Mag: myelin-associated glycoprotein |
| 95096_at | | | | -18 | -1.3 | 0.1 | Qk: quaking |

| Metabolism / Biosynthesis | | | | | | | |
|---------------------------|-----|------|-----|------|------|--|---|
| 94375_at | | | 18 | 4.0 | 1.3 | Hk2: hexokinase 2 | |
| 102993_at | | | 18 | 2.3 | 0.4 | Ggt1: glycoprotein galactosyltransferase alpha 1, 3 | |
| 96336_at | | | 18 | 2.3 | 0.2 | Gatm: glycine amidinotransferase (L-arginine:glycine amidinotransferase) | |
| 95693_at | 16 | 1.4 | 0.1 | 13 | 1.6 | 0.3 | Idh2: isocitrate dehydrogenase 2 (NADP+), mitochondrial |
| 99045_at | | | -18 | -1.5 | 0.0 | Eno2: enolase 2, gamma neuronal | |
| 160091_at | | | -18 | -1.4 | 0.0 | Pgam1: phosphoglycerate mutase 1 | |
| 94806_at | | | -18 | -1.4 | 0.1 | Pdhb: pyruvate dehydrogenase (lipoamide) beta | |
| 94438_at | | | -18 | -1.4 | 0.1 | PfkM: phosphofructokinase, muscle | |
| 94534_at | | | -18 | -1.4 | 0.1 | Idh3a: isocitrate dehydrogenase 3 (NAD+) alpha | |
| 101580_at | | | -18 | -1.3 | 0.1 | Cox7b: cytochrome c oxidase subunit VIIb | |
| 96870_at | | | -18 | -1.3 | 0.1 | Aco2: aconitase 2, mitochondrial | |
| 93084_at | | | -18 | -1.2 | 0.0 | Slc25a4: solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4 | |
| 101214_f_at | | | -18 | -1.2 | 0.0 | Gapd: glyceraldehyde-3-phosphate dehydrogenase | |
| 100880_at | | | 18 | 2.9 | 0.4 | ESTs, Weakly similar to lysophospholipase 1; phospholipase 1a; lysophospholipase 1 | |
| 101867_at | | | 18 | 1.9 | 0.2 | Gpam: glycerol-3-phosphate acyltransferase, mitochondrial | |
| 96127_at | | | 18 | 1.8 | 0.2 | Sgpl1: sphingosine phosphate lyase 1 | |
| 93749_at | 14 | 1.4 | 0.1 | 18 | 1.8 | 0.2 | Maoa: monoamine oxidase A |
| 92848_at | | | 18 | 1.5 | 0.1 | Oat: ornithine aminotransferase | |
| 96657_at | 18 | 1.4 | 0.1 | 18 | 2.3 | 0.3 | Sat: spermidine/spermine N1-acetyl transferase |
| 104671_at | | | 18 | 2.0 | 0.3 | Ampd3: AMP deaminase 3 | |
| 93290_at | 11 | 1.3 | 0.1 | 18 | 1.8 | 0.2 | Pnp: purine-nucleoside phosphorylase |
| 100636_at | 14 | 3.5 | 2.3 | 12 | 2.0 | 0.3 | Eif4ebp1: eukaryotic translation initiation factor 4E binding protein 1 |
| 94429_at | | | -18 | -1.5 | 0.2 | Eef1a2: eukaryotic translation elongation factor 1 alpha 2 | |
| 95328_at | | | -18 | -1.7 | 0.1 | FUT9: fucosyltransferase 9 (alpha (1,3)fucosyltransferase) | |
| 92850_at | | | 18 | 1.8 | 0.1 | Rrbp1: ribosome binding protein 1 | |
| 101213_at | | | 18 | 1.6 | 0.1 | Arbp: acidic ribosomal phosphoprotein PO | |
| 100720_at | | | 18 | 1.4 | 0.1 | Pabpc1: poly A binding protein, cytoplasmic 1 | |
| 100711_at | | | 18 | 1.4 | 0.0 | Rpl10a: ribosomal protein L10A | |
| 160754_at | -14 | -1.4 | 0.1 | -18 | -1.8 | 0.3 | Pygm: muscle glycogen phosphorylase |
| 160565_at | | | -18 | -1.7 | 0.1 | Ckmt1: creatine kinase, mitochondrial 1, ubiquitous | |
| 97247_at | | | -18 | -1.6 | 0.1 | 2610034N03Rik: RIKEN | |
| 92845_at | -9 | -1.3 | 0.1 | -18 | -1.5 | 0.1 | Oxct: 3-oxoacid CoA transferase |
| Blood Brain Barrier | | | | | | | |
| 104516_at | | | 18 | 2.1 | 0.2 | Cldn5: claudin 5 | |
| 100044_at | | | 18 | 1.8 | 0.1 | Cldn11: claudin 11; oligodendrocyte-specific protein | |
| 99935_at | | | 14 | 1.4 | 0.1 | Tjp1: tight junction protein 1 (Zonula occludens-1) | |
| 103816_at | | | 18 | 2.2 | 0.2 | Jcam1: junction cell adhesion molecule1 | |
| 93364_at | | | 18 | 1.9 | 0.1 | Catna1: catenin alpha 1 | |
| 95022_at | 18 | 1.5 | 0.2 | 18 | 2.8 | 0.4 | Akap12: A-kinase (PRKA) anchor protein (gravin) 12; SSeCKS |
| 93330_at | 9 | 0.9 | 1.3 | 18 | 4.6 | 1.3 | Aqp1: aquaporin 1 |
| 102703_s_at | -14 | -1.3 | 0.1 | 14 | 1.5 | 0.1 | Aqp4: aquaporin 4 |
| Thyroid | | | | | | | |
| 160937_at | | | 18 | 14.8 | 4.5 | Crym: crystallin, mu | |
| 93188_at | 18 | 1.9 | 0.3 | 18 | 3.2 | 0.3 | Dkk3: dickkopf homolog 3 |
| 95290_at | | | -18 | -1.4 | 0.2 | Crhr1: corticotropin releasing hormone receptor 1 | |
| 103438_at | -18 | -1.9 | 0.4 | -14 | -1.4 | 0.1 | Dio2: deiodinase, iodothyronine, type II |
| 96273_at | | | -18 | -4.0 | 2.9 | Nrgn: neurogranin | |
| Other | | | | | | | |
| 92553_at | 18 | 1.6 | 0.1 | 18 | 2.2 | 0.3 | Es10: esterase 10 |
| 102639_at | | | 17 | 1.7 | 0.2 | Chst2: carbohydrate sulfotransferase 2 | |
| 93736_at | | | 18 | 1.6 | 0.1 | Tcn2: transcobalamin 2 | |
| 97835_at | 18 | 1.7 | 0.2 | 18 | 4.0 | 0.9 | Similar to RIKEN cDNA 0610007L05 gene, clone MGC:18838 IMAGE:4212222 2310079N02Rik: RIKEN cDNA |
| 94366_at | | | 18 | 2.5 | 0.3 | Gpr49: G protein-coupled receptor 49 | |
| 98297_at | | | -18 | -1.9 | 0.3 | Btbd3: BTB (POZ) domain containing 3 | |
| 95393_at | | | -18 | -1.7 | 0.1 | Btbd1: BTB (POZ) domain containing 1 | |
| 94878_at | | | -18 | -1.3 | 0.0 | Wdr6: WD repeat domain 6 | |
| 95643_at | -14 | -1.3 | 0.1 | -16 | -1.5 | 0.2 | Wdr13: WD repeat domain 13 |
| 94374_at | | | -18 | -1.3 | 0.1 | Siat7e: sialyltransferase 7 ((alpha-N-acetylneuraminyl 2,3-beta galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase) E | |
| 92403_at | | | -18 | -1.6 | 0.1 | Ugcg: UDP-glucose ceramide glucosyltransferase | |
| 96623_at | | | -18 | -1.5 | 0.1 | Ttc3: tetratricopeptide repeat domain | |
| 98555_at | | | -18 | -1.6 | 0.1 | | |
| Unknown | | | | | | | |
| 96605_at | 18 | 1.7 | 0.2 | 18 | 4.2 | 0.5 | RIKEN cDNA 0610011I04 gene |
| 96048_at | 18 | 1.6 | 0.1 | 14 | 1.5 | 0.2 | Hrsp12: heat-responsive protein 12 |
| 160261_i_at | 18 | 1.5 | 0.2 | 14 | 1.5 | 0.2 | Mus musculus mRNA, up-regulated by FUS-ERG, 3' region, cDNA fragment: C14G220. |
| 97110_at | 16 | 1.3 | 0.1 | 18 | 1.8 | 0.2 | AW121776: expressed sequence |

| | | | | | | | |
|-------------|----|-----|-----|------|-----|---|---|
| 160255_at | 12 | 1.7 | 0.3 | 18 | 3.0 | 0.2 | AA589382: expressed sequence similar to desmoyokin |
| 95135_at | 12 | 1.3 | 0.1 | 14 | 1.4 | 0.0 | 3110038L01Rik: RIKEN cDNA |
| 100151_at | 11 | 1.2 | 0.1 | 16 | 1.5 | 0.1 | Tde1: tumor differentially expressed 1 |
| 96614_at | 10 | 1.4 | 0.1 | 18 | 2.5 | 0.2 | ESTs, Moderately similar to Y247_HUMAN Hypothetical protein KIAA0247 [H.sapiens] |
| 95940_f_at | 10 | 1.3 | 0.9 | 16 | 2.0 | 0.5 | 9830126M18: hypothetical protein |
| 104445_at | 10 | 1.3 | 0.1 | 18 | 5.5 | 0.5 | RIKEN cDNA 4631408O11 gene |
| 99366_at | | | | 18 | 8.7 | 3.5 | similar to MANNOSE-P-DOLICHOL UTILIZATION DEFECT 1 PROTEIN HOMOLOG |
| 104477_at | | | | 18 | 8.3 | 8.1 | ESTs |
| 160312_at | | | | 18 | 8.3 | 12.4 | RIKEN cDNA 2810051A14 gene |
| 100013_at | | | | 18 | 8.1 | 4.4 | RIKEN cDNA 2010008K16 gene |
| 104177_at | | | | 18 | 6.3 | 1.9 | ESTs, similarity to BEST5, an interferon inducible gene expressed during bone formation |
| 97360_at | | | | 18 | 5.8 | 5.2 | RIKEN cDNA 9430096L06 gene |
| 102644_at | | | | 18 | 3.5 | 0.4 | Kdt1: Kidney cell line derived transcript 1 |
| 103299_at | | | | 18 | 3.3 | 0.8 | AI132321 Expressed sequence AI132321 |
| 104252_at | | | | 18 | 3.2 | 0.6 | AU020206: expressed sequence AU020206 |
| 100958_at | | | | 18 | 2.9 | 0.3 | C79050: EST C79050 |
| 103556_at | | | | 18 | 2.8 | 0.6 | AW260363: expressed sequence AW260363 |
| 103690_at | | | | 18 | 2.6 | 0.5 | Wbscr5: Williams-Beuren syndrome chromosome region 5, homolog (human) |
| 93327_at | | | | 18 | 2.5 | 0.3 | 1300011C24Rik: RIKEN cDNA; identity with to tax interaction protein 1= glutaminase interacting protein 3 (PDZ domain) |
| 161104_at | | | | 18 | 2.3 | 0.2 | AA408298: expressed sequence |
| 93775_at | | | | 18 | 2.3 | 0.2 | D12Ertd647e: DNA segment, Chr 12, ERATO Doi 647, expressed; similar to interferon, alpha-inducible protein 27-like |
| 93753_at | | | | 18 | 2.1 | 0.3 | Litaf: LPS-induced TN factor |
| 96132_at | | | | 18 | 2.1 | 0.2 | EIG180: ethanol induced gene product EIG180 |
| 98056_at | | | | 18 | 2.1 | 0.3 | Phlda3: pleckstrin homology-like domain, family A, member 3 |
| 104316_at | | | | 18 | 1.8 | 0.1 | Mus musculus, clone IMAGE:1379624, mRNA, partial cds |
| 100877_at | | | | 18 | 1.8 | 0.2 | 1810058I24Rik: RIKEN cDNA |
| 99641_at | | | | 18 | 1.8 | 0.1 | D2Bwg0891e: DNA segment, Chr 2, Brigham & Women's Genetics 0891 expressed |
| 97386_at | | | | 18 | 1.7 | 0.2 | AL022941: expressed sequence |
| 98633_at | | | | 18 | 1.7 | 0.2 | 1200015A22Rik: RIKEN cDNA |
| 95648_at | | | | 18 | 1.7 | 0.1 | LOC232157: similar to CG4946 gene product |
| 94047_at | | | | 18 | 1.6 | 0.1 | 0610031J06Rik: RIKEN cDNA |
| 96090_g_at | | | | 18 | 1.6 | 0.1 | 4931406C07Rik: RIKEN cDNA |
| 95709_at | | | | 18 | 1.5 | 0.1 | D7Wsu86e: DNA segment, Chr 7, Wayne State University 86, expressed |
| 95406_at | | | | 18 | 1.3 | 0.1 | 1810037I17Rik: RIKEN cDNA |
| 96786_s_at | | | -18 | -2.6 | 0.9 | 0610013D04Rik: RIKEN cDNA | |
| 95559_at | | | -18 | -2.1 | 0.2 | 6330403K07Rik: RIKEN cDNA | |
| 160522_at | | | -18 | -2.1 | 0.2 | D0H4S114: DNA segment, human D4S114, neuronal protein 3.1, P311 | |
| 101118_at | | | -18 | -1.9 | 0.2 | ESTs | |
| 103744_at | | | -18 | -1.8 | 0.3 | A930014C21Rik: RIKEN cDNA; SH3 domain binding glutamic acid-rich protein like 2 | |
| 161354_f_at | | | -18 | -1.8 | 0.1 | 6330403K07Rik: RIKEN cDNA | |
| 160172_at | | | -18 | -1.7 | 0.2 | Meg3: maternally expressed gene 3 | |
| 99347_f_at | | | -18 | -1.7 | 0.1 | ESTs | |
| 96785_at | | | -18 | -1.7 | 0.1 | 0610013D04Rik: RIKEN cDNA | |
| 162255_s_at | | | -18 | -1.7 | 0.2 | 0610013D04Rik: RIKEN cDNA | |
| 104034_at | | | -18 | -1.7 | 0.3 | Mus musculus, clone IMAGE:4973354, mRNA | |
| 100458_at | | | -18 | -1.7 | 0.2 | Brp14: brain protein 14 | |
| 97357_at | | | -18 | -1.6 | 0.2 | 5430401D19Rik: RIKEN cDNA | |
| 98594_at | | | -18 | -1.6 | 0.0 | 1190002N15Rik: RIKEN cDNA | |
| 97752_at | | | -18 | -1.6 | 0.1 | E130013N09Rik: RIKEN cDNA | |
| 160905_s_at | | | -18 | -1.6 | 0.2 | A030009H04Rik: RIKEN cDNA | |
| 101099_at | | | -18 | -1.6 | 0.1 | Nsg1: neuron specific gene family member 1 | |
| 99633_at | | | -18 | -1.6 | 0.1 | Ncdn-pending: neurochondrin | |
| 96634_at | | | -18 | -1.6 | 0.2 | 5730469M10Rik: RIKEN cDNA | |
| 92408_at | | | -18 | -1.5 | 0.1 | C130065N10Rik: RIKEN cDNA | |
| 95397_at | | | -18 | -1.5 | 0.2 | D430019H16Rik: RIKEN cDNA | |
| 103712_at | | | -18 | -1.5 | 0.1 | LOC226412: hypothetical protein | |
| 95031_at | | | -18 | -1.5 | 0.1 | 4833421P10Rik: RIKEN cDNA | |
| 97297_at | | | -18 | -1.5 | 0.1 | 1500036F01Rik: RIKEN cDNA | |
| 103200_at | | | -18 | -1.5 | 0.2 | E430013J17Rik: RIKEN cDNA | |
| 160264_s_at | | | -18 | -1.5 | 0.1 | 1500036F01Rik: RIKEN cDNA | |
| 92944_at | | | -18 | -1.5 | 0.1 | 2900051M01Rik: RIKEN cDNA | |
| 104327_at | | | -18 | -1.5 | 0.1 | 9030612M13Rik: RIKEN cDNA | |
| 92308_at | | | -18 | -1.5 | 0.1 | ESTs | |
| 104106_at | | | -18 | -1.4 | 0.1 | BC021875: cDNA sequence BC021875 | |
| 103543_at | | | -18 | -1.4 | 0.1 | Aig1-pending: acupuncture induced gene 1 | |
| 104372_at | | | -18 | -1.4 | 0.1 | 0910001L24Rik: RIKEN cDNA | |
| 104260_at | | | -18 | -1.4 | 0.1 | Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clone:9930106P14 product:unclassifiable, full insert sequence. | |
| 103931_at | | | -18 | -1.4 | 0.1 | Grca: gene rich cluster, A gene | |
| 93908_f_at | | | -18 | -1.4 | 0.0 | type IIB intracisternal A-particle (IAP) element encoding integrase | |

| | | | | |
|------------|------------|-------------|------------|--|
| 94957_at | -18 | -1.4 | 0.1 | 2810457N15Rik: RIKEN cDNA 2810457N15 gene |
| 93020_at | -18 | -1.4 | 0.1 | Rex3: reduced expression 3 |
| 96662_at | -18 | -1.4 | 0.1 | 1110003O22Rik: RIKEN cDNA |
| 160761_at | -18 | -1.4 | 0.1 | Usmg4: upregulated during skeletal muscle growth 4 |
| 94908_r_at | -18 | -1.4 | 0.1 | 1110001J03Rik: RIKEN cDNA |
| 92872_at | -18 | -1.4 | 0.1 | 1200016B17Rik: RIKEN cDNA |
| 96212_at | -18 | -1.4 | 0.1 | 2310061I04Rik: RIKEN cDNA |
| 95157_at | -18 | -1.3 | 0.1 | Zfp1-pending: zinc ring finger protein 1 |
| 94989_at | -18 | -1.3 | 0.1 | 2310035O07Rik: RIKEN cDNA |
| 96900_at | -18 | -1.3 | 0.0 | 1620401E04Rik: RIKEN cDNA |
| 99645_at | -18 | -1.3 | 0.1 | 4921506J03Rik: RIKEN cDNA |
| 160904_at | -18 | -1.3 | 0.1 | B230317C12Rik: RIKEN cDNA |
| 104030_at | -18 | -1.3 | 0.1 | A230106A15Rik: RIKEN cDNA |
| 104141_at | -18 | -1.3 | 0.1 | D15Wsu75e: DNA segment, Chr 15, Wayne State University 75, expressed |
| 95746_at | -18 | -1.2 | 0.1 | B230379M23Rik: RIKEN cDNA |
| 96215_f_at | -10 | -1.3 | 0.2 | -12 -1.1 1.3 IMAGE:3983821, mRNA, partial cds (88% homology with edr) |
| 98525_f_at | -14 | -1.3 | 0.2 | -10 -0.9 1.2 edr Erythroid differentiation regulator |

This table includes all genes with a rank of 18 or -18 (all 9 pairwise comparisons showed a significant increase or decrease), and all genes that showed changes at both 3 wks and 4 mos.

Selected genes of interest with rank scores >9 or <-9 have been added.

*Nrf2 regulated genes are shown in blue (Lee et al., 2003, J Biol Chem 278: 12029)