

Sheet1

| Transcript Id | Fold change | direction | gene symbol | genedescription |
|---------------|-------------|-----------|---------------|---|
| 10351293 | 216.73323 | down | Dpt | dermatopontin |
| 10458894 | 143.38281 | down | Lox | lysyl oxidase |
| 10600169 | 142.54616 | down | Bgn | biglycan |
| 10363455 | 137.66934 | up | Pcbd1 | pterin 4a carbinolamine dehydratase/dimerization cofactor of HNF1a (TCF1) 1 |
| 10365974 | 137.1432 | down | Dcn | decorin |
| 10543959 | 104.785416 | down | Ptn | pleiotrophin |
| 10440534 | 103.986885 | down | Adamts5 | disintegrin-like and metallopeptidase with thrombospondin type 1 motif, 5 |
| 10492021 | 103.6441 | down | Postn | periostin, osteoblast specific factor |
| 10376765 | 94.146225 | up | Aldh3a1 | aldehyde dehydrogenase family 3, subfamily A1 |
| 10440522 | 91.45299 | down | Adamts1 | disintegrin-like and metallopeptidase with thrombospondin type 1 motif, 1 |
| 10405047 | 88.90514 | down | Aspn | asporin |
| 10439500 | 80.32767 | up | Upk1b | uroplakin 1B |
| 10407350 | 79.92412 | down | Fgf10 | fibroblast growth factor 10 |
| 10391036 | 78.4518 | up | Krt19 | keratin 19 |
| 10453747 | 77.859116 | down | Colec12 | collectin sub-family member 12 |
| 10499899 | 75.68216 | up | Sprr1a | small proline-rich protein 1A |
| 10388430 | 75.171196 | down | Serpinf1 | serine (or cysteine) peptidase inhibitor, clade F, member 1 |
| 10513739 | 71.58821 | down | Tnc | tenascin C |
| 10406504 | 71.27405 | down | Edil3 | EGF-like repeats and discoidin I-like domains 3 |
| 10459866 | 70.65572 | up | Slc14a1 | solute carrier family 14 (urea transporter), member 1 |
| 10449000 | 67.96421 | up | Msln | mesothelin |
| 10359624 | 66.92822 | down | Prrx1 | paired related homeobox 1 |
| 10447951 | 63.957516 | down | Thbs2 | thrombospondin 2 |
| 10593123 | 62.123264 | down | Tagln | transgelin |
| 10356520 | 57.437923 | down | Col6a3 | collagen, type VI, alpha 3 |
| 10597817 | 57.21979 | down | Cck | cholecystokinin |
| 10359929 | 55.74221 | down | Ddr2 | discoidin domain receptor family, member 2 |
| 10417212 | 54.726257 | down | Itgbl1 | integrin, beta-like 1 |
| 10563077 | 54.355755 | down | Rcn3 | reticulocalbin 3, EF-hand calcium binding domain |
| 10585438 | 53.878487 | down | Crabp1 | cellular retinoic acid binding protein I |
| 10573924 | 53.52301 | down | Mmp2 | matrix metallopeptidase 2 |
| 10492682 | 53.265003 | down | 1110032E23Rik | RIKEN cDNA 1110032E23 gene |
| 10527649 | 51.091457 | down | 6330406115Rik | RIKEN cDNA 6330406115 gene |
| 10381122 | 50.29607 | down | Fkbp10 | FK506 binding protein 10 |
| 10398075 | 49.35316 | down | Serpina3n | serine (or cysteine) peptidase inhibitor, clade A, member 3N |
| 10432918 | 49.085392 | up | Krt8 | keratin 8 |
| 10548892 | 48.912445 | down | Arhgdib | Rho, GDP dissociation inhibitor (GDI) beta |

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| 10569618 | 48.578957 up | Tmem16a | transmembrane protein 16A |
| 10502780 | 47.71223 down | Lphn2 | latrophilin 2 |
| 10456046 | 46.102406 down | Pdgfrb | platelet derived growth factor receptor, beta polypeptide |
| 10581013 | 45.16725 down | Cdh11 | cadherin 11 |
| 10607143 | 45.049812 down | Capn6 | calpain 6 |
| 10414065 | 43.99296 up | Anxa8 | annexin A8 |
| 10359908 | 42.783 up | Rgs4 | regulator of G-protein signaling 4 |
| 10536220 | 41.556595 down | Col1a2 | collagen, type I, alpha 2 |
| 10477920 | 41.261475 down | Myl9 | myosin, light polypeptide 9, regulatory |
| 10541496 | 40.72306 down | Mfap5 | microfibrillar associated protein 5 |
| 10494262 | 40.705685 down | Ctsk | cathepsin K |
| 10405179 | 40.465397 down | Edg3 | endothelial differentiation, sphingolipid G-protein-coupled receptor, 3 |
| 10571797 | 40.274498 down | Asb5 | ankyrin repeat and SOCs box-containing protein 5 |
| 10594066 | 39.944244 down | Loxl1 | lysyl oxidase-like 1 |
| 10502778 | 38.900204 down | Lphn2 | latrophilin 2 |
| 10485948 | 38.899113 down | Grem1 | gremlin 1 |
| 10584628 | 38.893764 down | Thy1 | thymus cell antigen 1, theta |
| 10534152 | 38.468647 down | Wbscr17 | Williams-Beuren syndrome chromosome region 17 homolog (human) |
| 10495675 | 38.2326 down | F3 | coagulation factor III |
| 10467191 | 36.874565 down | Ankrd1 | ankyrin repeat domain 1 (cardiac muscle) |
| 10553833 | 36.790554 down | Ndn | neccdin |
| 10405063 | 36.421165 down | Ogn | osteoglycin |
| 10576235 | 36.41334 down | Dpep1 | dipeptidase 1 (renal) |
| 10532741 | 35.30677 down | Tmem119 | transmembrane protein 119 |
| 10583809 | 35.22001 down | Cnn1 | calponin 1 |
| 10519886 | 33.948605 up | Sema3c | sema domain, immunoglobulin domain (Ig), (semaphorin) 3C |
| 10398354 | 33.025837 down | | |
| 10380419 | 32.82013 down | Col1a1 | collagen, type I, alpha 1 |
| 10545707 | 32.673874 down | Actg2 | actin, gamma 2, smooth muscle, enteric |
| 10571567 | 32.302418 up | Sorbs2 | sorbin and SH3 domain containing 2 |
| 10502776 | 31.565466 down | Lphn2 | latrophilin 2 |
| 10445325 | 31.094843 down | Rcan2 | regulator of calcineurin 2 |
| 10441902 | 30.767342 down | Smoc2 | SPARC related modular calcium binding 2 |
| 10405587 | 30.667875 down | Tgfb1 | transforming growth factor, beta induced |
| 10377319 | 30.36253 down | Myh10 | myosin, heavy polypeptide 10, non-muscle |
| 10462442 | 30.182878 up | Il33 | interleukin 33 |
| 10501608 | 29.91779 down | Vcam1 | vascular cell adhesion molecule 1 |
| 10466587 | 28.88862 up | Rorb | RAR-related orphan receptor beta |

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| 10413609 | 28.267513 | down | Mustn1 | musculoskeletal, embryonic nuclear protein 1 |
| 10531724 | 28.264132 | down | Plac8 | placenta-specific 8 |
| 10587880 | 28.069523 | up | Pcolce2 | procollagen C-endopeptidase enhancer 2 |
| 10591139 | 27.580383 | down | Naalad2 | N-acetylated alpha-linked acidic dipeptidase 2 |
| 10484389 | 27.04927 | down | Tfpi | tissue factor pathway inhibitor |
| 10582303 | 26.675245 | down | Cyba | cytochrome b-245, alpha polypeptide |
| 10344674 | 26.389137 | down | EG620393 | |
| 10547740 | 26.344946 | down | C1s | complement component 1, s subcomponent |
| 10408557 | 25.893782 | up | Serpinb1a | serine (or cysteine) peptidase inhibitor, clade B, member 1a |
| 10351504 | 25.593824 | down | AI506816 | |
| 10394534 | 25.499779 | down | Osr1 | odd-skipped related 1 (Drosophila) |
| 10381898 | 25.437933 | down | Mrc2 | mannose receptor, C type 2 |
| 10410931 | 25.225464 | down | Vcan | versican |
| 10375402 | 25.004147 | down | Adam19 | a disintegrin and metallopeptidase domain 19 (meltrin beta) |
| 10436727 | 24.69631 | down | ORF63 | open reading frame 63 |
| 10427075 | 24.668621 | up | Krt18 | keratin 18 |
| 10572070 | 24.651798 | down | Npy1r | neuropeptide Y receptor Y1 |
| 10511363 | 24.53431 | down | Penk1 | preproenkephalin 1 |
| 10538187 | 24.180893 | down | Gpnmb | glycoprotein (transmembrane) nmb |
| 10587639 | 24.167542 | down | Nt5e | 5' nucleotidase, ecto |
| 10474048 | 24.128897 | up | Syt13 | synaptotagmin XIII |
| 10390117 | 24.128496 | up | Itga3 | integrin alpha 3 |
| 10575052 | 24.102783 | up | Cdh1 | cadherin 1 |
| 10461251 | 23.437145 | down | 1110067112Rik | RIKEN cDNA 1110067112 gene |
| 10522503 | 23.087215 | down | Pdgfra | platelet derived growth factor receptor, alpha polypeptide |
| 10557470 | 23.000631 | up | Gdpd3 | glycerophosphodiester phosphodiesterase domain containing 3 |
| 10585048 | 22.99382 | up | Cadm1 | cell adhesion molecule 1 |
| 10370180 | 22.94075 | down | Col6a2 | collagen, type VI, alpha 2 |
| 10348471 | 22.934088 | up | Mlph | melanophilin |
| 10538150 | 22.909018 | up | Tmem176a | transmembrane protein 176A |
| 10542335 | 22.82901 | up | Gprc5a | G protein-coupled receptor, family C, group 5, member A |
| 10496125 | 22.74389 | down | Dkk2 | dickkopf homolog 2 (Xenopus laevis) |
| 10423599 | 22.647814 | down | Matn2 | matrilin 2 |
| 10538482 | 22.123882 | down | Adcyap1r1 | adenylate cyclase activating polypeptide 1 receptor 1 |
| 10513722 | 22.02976 | up | Tnfsf15 | tumor necrosis factor (ligand) superfamily, member 15 |
| 10427125 | 21.484245 | down | Igfbp6 | insulin-like growth factor binding protein 6 |
| 10607602 | 21.433363 | down | Ppef1 | protein phosphatase with EF hand calcium-binding domain 1 |
| 10519140 | 21.416983 | down | Mmp23 | matrix metallopeptidase 23 |

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| 10516765 | 21.298313 up | Serinc2 | serine incorporator 2 hypothetical protein LOC100044221 |
| 10411229 | 21.291246 down | F2r | coagulation factor II (thrombin) receptor |
| 10518147 | 21.143286 down | Pdpn | podoplanin |
| 10435704 | 21.134819 down | Cd80 | CD80 antigen |
| 10544596 | 21.082214 up | Tmem176b | transmembrane protein 176B |
| 10565794 | 20.72043 down | Serpinh1 | serine (or cysteine) peptidase inhibitor, clade H, member 1 |
| 10541683 | 20.571568 down | C1r C1rb | complement component 1, r subcomponent complement component C1rb |
| 10496872 | 20.536297 down | Eltf1 | EGF, latrophilin seven transmembrane domain containing 1 |
| 10446553 | 20.357607 down | Epb4.1l3 | erythrocyte protein band 4.1-like 3 |
| 10453759 | 20.21703 down | | |
| 10509992 | 20.20041 down | Hspb7 | heat shock protein family, member 7 (cardiovascular) |
| 10487441 | 20.162285 up | Mal | myelin and lymphocyte protein, T-cell differentiation protein |
| 10483353 | 20.134367 down | Scn7a | sodium channel, voltage-gated, type VII, alpha |
| 10374083 | 20.057035 down | Aebp1 | AE binding protein 1 |
| 10489878 | 20.02796 down | Ptgis | prostaglandin I2 (prostacyclin) synthase |
| 10603151 | 19.910213 up | Gpm6b | glycoprotein m6b |
| 10584827 | 19.904213 up | Mpzl2 | myelin protein zero-like 2 |
| 10548905 | 19.66834 down | Eps8 | epidermal growth factor receptor pathway substrate 8 |
| 10379765 | 19.666111 up | Hnf1b | HNF1 homeobox B |
| 10475932 | 19.661856 down | Fbln7 | fibulin 7 |
| 10412921 | 19.525185 down | Nid2 | nidogen 2 |
| 10400006 | 19.365437 up | Ahr | aryl-hydrocarbon receptor |
| 10402211 | 19.076475 down | Fbln5 | fibulin 5 |
| 10490989 | 18.987621 up | Cp | ceruloplasmin |
| 10370037 | 18.840302 down | Mmp11 | matrix metalloproteinase 11 |
| 10461629 | 18.737463 down | Ms4a4d | membrane-spanning 4-domains, subfamily A, member 4D |
| 10480090 | 18.598612 down | Itga8 | integrin alpha 8 |
| 10475643 | 18.567066 down | Fgf7 | fibroblast growth factor 7 |
| 10348632 | 18.52007 down | Twist2 | twist homolog 2 (Drosophila) |
| 10391332 | 18.26633 down | Ptrf | polymerase I and transcript release factor |
| 10440002 | 18.195902 up | Gpr128 | G protein-coupled receptor 128 |
| 10421932 | 18.195173 down | Pcdh9 | protocadherin 9 |
| 10462035 | 18.165592 down | Ldhb | lactate dehydrogenase B |
| 10594044 | 18.149784 down | Islr | immunoglobulin superfamily containing leucine-rich repeat |
| 10600597 | 18.083403 down | Tmem47 | transmembrane protein 47 |
| 10574572 | 18.019522 up | 2210023G05Rik | RIKEN cDNA 2210023G05 gene |
| 10499891 | 17.859602 up | Sprr1b | small proline-rich protein 1B |
| 10512499 | 17.757233 down | Tpm2 | tropomyosin 2, beta |

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| 10486102 | 17.621357 | down | Gpr176 | G protein-coupled receptor 176 |
| 10500011 | 17.60788 | up | Tuft1 | tuffelin 1 |
| 10483081 | 17.602829 | down | Fap | fibroblast activation protein |
| 10404649 | 17.544188 | up | Dsp | desmoplakin |
| 10450344 | 17.366776 | down | C2 | complement component 2 (within H-2S) |
| 10361887 | 16.823338 | up | Perp | PERP, TP53 apoptosis effector |
| 10385583 | 16.743645 | up | Ltc4s | leukotriene C4 synthase |
| 10545974 | 16.703953 | down | Antxr1 | anthrax toxin receptor 1 |
| 10536635 | 16.672401 | down | A430107O13Rik | RIKEN cDNA A430107O13 gene |
| 10506488 | 16.613089 | down | Ppap2b | phosphatidic acid phosphatase type 2B |
| 10398326 | 16.280994 | down | Meg3 | maternally expressed 3 |
| 10416406 | 16.2513 | down | Htr2a | 5-hydroxytryptamine (serotonin) receptor 2A |
| 10360377 | 16.203106 | down | Al607873 | |
| 10458028 | 16.167532 | down | Gypc | glycophorin C |
| 10346882 | 16.153223 | down | Adam23 | a disintegrin and metallopeptidase domain 23 |
| 10541075 | 16.093292 | down | Cxcl12 | chemokine (C-X-C motif) ligand 12 |
| 10606928 | 16.078602 | up | Serpina7 | serine (or cysteine) peptidase inhibitor, member 7 |
| 10427796 | 15.96912 | down | Npr3 | natriuretic peptide receptor 3 |
| 10558192 | 15.951985 | up | 5430419D17Rik | RIKEN cDNA 5430419D17 gene |
| 10523145 | 15.891952 | up | Cxcl15 | chemokine (C-X-C motif) ligand 15 |
| 10395925 | 15.742743 | up | Mia2 | melanoma inhibitory activity 2 |
| 10474419 | 15.4849825 | up | Lgr4 | leucine-rich repeat-containing G protein-coupled receptor 4 |
| 10570741 | 15.356975 | up | Defb1 | defensin beta 1 |
| 10513208 | 15.347299 | down | Svep1 | sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 |
| 10384398 | 15.297622 | down | Grb10 | growth factor receptor bound protein 10 |
| 10542965 | 15.288216 | down | Sgce | sarcoglycan, epsilon |
| 10458828 | 15.0760145 | down | Cdo1 | cysteine dioxygenase 1, cytosolic |
| 10351491 | 14.90509 | down | Olfml2b | olfactomedin-like 2B |
| 10421924 | 14.903051 | down | Pcdh9 | protocadherin 9 |
| 10502451 | 14.894197 | up | Bmpr1b | bone morphogenetic protein receptor, type 1B |
| 10484371 | 14.891076 | down | Calcr | calcitonin receptor-like |
| 10551852 | 14.873245 | down | Clip3 | CAP-GLY domain containing linker protein 3 |
| 10412335 | 14.781944 | down | Isl1 | ISL1 transcription factor, LIM/homeodomain |
| 10368947 | 14.641821 | up | Aim1 | absent in melanoma 1 |
| 10460541 | 14.609482 | down | Cd248 | CD248 antigen, endosialin |
| 10603099 | 14.5998125 | down | Figf | c-fos induced growth factor |
| 10484463 | 14.339907 | down | Serping1 | serine (or cysteine) peptidase inhibitor, clade G, member 1 |
| 10372410 | 14.284368 | up | Glpr1 | GLI pathogenesis-related 1 (glioma) |

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| 10569714 | 14.235803 | down | Cacng7 | calcium channel, voltage-dependent, gamma subunit 7 |
| 10514177 | 14.196324 | down | Bnc2 | basonuclin 2 |
| 10603814 | 14.132738 | up | Slc9a7 | solute carrier family 9 (sodium/hydrogen exchanger), member 7 |
| 10358879 | 14.122736 | down | Npl | N-acetylneuraminase pyruvate lyase |
| 10532085 | 14.11617 | down | Tgfr3 | transforming growth factor, beta receptor III |
| 10471486 | 14.086961 | down | Eng | endoglin |
| 10556297 | 14.012369 | down | Adm | adrenomedullin |
| 10555174 | 13.925281 | down | Lrrc32 | leucine rich repeat containing 32 |
| 10501827 | 13.902029 | down | A730020M07Rik | RIKEN cDNA A730020M07 gene |
| 10587331 | 13.854663 | up | Gsta1 | glutathione S-transferase, alpha 1 (Ya) |
| 10364072 | 13.8379135 | down | Ggt5 | gamma-glutamyltransferase 5 |
| 10398364 | 13.812347 | down | | |
| 10601659 | 13.807518 | down | Srxp2 | sushi-repeat-containing protein, X-linked 2 |
| 10514054 | 13.756213 | up | Nfib | nuclear factor I/B |
| 10353102 | 13.617197 | down | Cpa6 | carboxypeptidase A6 |
| 10428388 | 13.536384 | down | Rspo2 | R-spondin 2 homolog (Xenopus laevis) |
| 10487040 | 13.449256 | down | Fbn1 | fibrillin 1 |
| 10534862 | 13.404434 | down | Pcolce | procollagen C-endopeptidase enhancer protein |
| 10541678 | 13.2530575 | down | C1r | complement component 1, r subcomponent |
| 10369481 | 13.250662 | down | H2afy2 | H2A histone family, member Y2 |
| 10584561 | 13.24177 | down | 9030425E11Rik | RIKEN cDNA 9030425E11 gene |
| 10498018 | 13.176252 | down | Pcdh18 | protocadherin 18 |
| 10389214 | 13.125527 | down | Ccl9 | chemokine (C-C motif) ligand 9 |
| 10435733 | 13.122252 | up | Igsf11 | immunoglobulin superfamily, member 11 |
| 10476740 | 13.097225 | up | Slc24a3 | solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 |
| 10419578 | 13.031708 | down | Ndrp2 | N-myc downstream regulated gene 2 |
| 10485624 | 13.006913 | up | Prrg4 | proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane) |
| 10451838 | 12.981904 | down | Slc5a7 | solute carrier family 5 (choline transporter), member 7 |
| 10570957 | 12.9298115 | down | Sfrp1 | secreted frizzled-related protein 1 |
| 10409833 | 12.802704 | down | Gas1 | growth arrest specific 1 |
| 10350753 | 12.7499275 | up | Glul | glutamate-ammonia ligase (glutamine synthetase) |
| 10587323 | 12.728862 | up | Gsta1 Gsta2 | glutathione S-transferase, alpha 1 (Ya) glutathione S-transferase, alpha 2 (Yc2) |
| 10472034 | 12.72675 | down | Lypd6 | LY6/PLAUR domain containing 6 |
| 10381371 | 12.692665 | down | Aoc3 Aoc2 | amine oxidase, copper containing 3 amine oxidase, copper containing 2 |
| 10374453 | 12.578129 | up | Glul | glutamate-ammonia ligase (glutamine synthetase) |
| 10349648 | 12.573062 | up | Ctse | cathepsin E |
| 10393379 | 12.563325 | down | Mxra7 | matrix-remodelling associated 7 |
| 10543791 | 12.49669 | up | Podxl | podocalyxin-like |

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| 10408616 | 12.477095 up | Slc22a23 | solute carrier family 22, member 23 |
| 10568735 | 12.4255905 down | Ebf3 | early B-cell factor 3 |
| 10593219 | 12.41909 down | Nnmt | nicotinamide N-methyltransferase |
| 10403584 | 12.416706 down | Nid1 | nidogen 1 |
| 10458046 | 12.391083 down | D0H4S114 | DNA segment, human D4S114 |
| 10502816 | 12.065242 up | Gipc2 | GIPC PDZ domain containing family, member 2 |
| 10549222 | 12.045351 down | Bcat1 | branched chain aminotransferase 1, cytosolic |
| 10581175 | 11.958956 down | C76566 | |
| 10375175 | 11.936991 down | Slit3 | slit homolog 3 (Drosophila) |
| 10393364 | 11.874263 down | Cygb | cytoglobin |
| 10599348 | 11.698755 down | Gria3 | glutamate receptor, ionotropic, AMPA3 (alpha 3) |
| 10408798 | 11.627905 up | Tcfap2a | transcription factor AP-2, alpha |
| 10396270 | 11.489685 down | Dact1 | dapper homolog 1, antagonist of beta-catenin (xenopus) |
| 10429114 | 11.45981 up | Tmem71 | transmembrane protein 71 |
| 10534395 | 11.39072 up | Cldn4 | claudin 4 |
| 10415413 | 11.345996 down | BC030046 | |
| 10502748 | 11.317849 down | Lphn2 | latrophilin 2 |
| 10416800 | 11.203673 up | Lmo7 | LIM domain only 7 |
| 10559207 | 11.139025 down | Lsp1 | lymphocyte specific 1 |
| 10546725 | 10.966109 down | Pdzrn3 | PDZ domain containing RING finger 3 |
| 10355403 | 10.91148 down | Fn1 | fibronectin 1 |
| 10345921 | 10.89952 down | 1500015O10Rik | RIKEN cDNA 1500015O10 gene |
| 10523190 | 10.887581 up | 9130213B05Rik | RIKEN cDNA 9130213B05 gene |
| 10606735 | 10.838994 down | Armcx2 | armadillo repeat containing, X-linked 2 |
| 10427026 | 10.802946 down | Grasp | GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein |
| 10523260 | 10.789269 up | Shroom3 | shroom family member 3 |
| 10585703 | 10.756095 down | Rpp25 | ribonuclease P 25 subunit (human) |
| 10500808 | 10.673512 down | Olfml3 | olfactomedin-like 3 |
| 10370210 | 10.639538 down | Col6a1 | collagen, type VI, alpha 1 |
| 10412380 | 10.590998 up | | |
| 10354003 | 10.556043 up | Mgat4a | mannoside acetylglucosaminyltransferase 4, isoenzyme A |
| 10519857 | 10.514915 down | Hgf | hepatocyte growth factor |
| 10437655 | 10.492661 down | BC068110 | |
| 10368243 | 10.43485 down | Eya4 | eyes absent 4 homolog (Drosophila) |
| 10548879 | 10.429112 down | Mgp | matrix Gla protein |
| 10487645 | 10.387305 down | Cpxm1 | carboxypeptidase X 1 (M14 family) |
| 10471247 | 10.383258 up | 2810003C17Rik | RIKEN cDNA 2810003C17 gene |
| 10599736 | 10.364931 down | Fhl1 | four and a half LIM domains 1 |

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| 10498379 | 10.326671 | down | Igsf10 | immunoglobulin superfamily, member 10 |
| 10475544 | 10.281827 | down | Sema6d | sema domain, transmembrane domain, cytoplasmic domain, (semaphorin) 6D |
| 10503382 | 10.27581 | down | Runx1t1 | runt-related transcription factor 1; translocated to, 1 (cyclin D-related) |
| 10511580 | 10.130841 | down | Ppm2c | protein phosphatase 2C, magnesium dependent, catalytic subunit |
| 10344897 | 10.119938 | down | Sulf1 | sulfatase 1 |
| 10542575 | 10.107292 | down | Pde3a | phosphodiesterase 3A, cGMP inhibited |
| 10472820 | 10.076181 | up | Itga6 | integrin alpha 6 |
| 10395457 | 10.063159 | down | Etv1 | ets variant gene 1 |
| 10359593 | 9.941159 | down | Fmo3 | flavin containing monooxygenase 3 |
| 10380614 | 9.883097 | up | Hoxb13 | homeo box B13 |
| 10561712 | 9.851208 | up | Spint2 | serine protease inhibitor, Kunitz type 2 |
| 10434105 | 9.849453 | down | Scarf2 | scavenger receptor class F, member 2 |
| 10578880 | 9.845586 | down | Tll1 | tolloid-like |
| 10445241 | 9.834038 | up | Tnfrsf21 | tumor necrosis factor receptor superfamily, member 21 |
| 10351455 | 9.806993 | up | Rgs5 | regulator of G-protein signaling 5 |
| 10502774 | 9.660846 | down | Lphn2 | latrophilin 2 |
| 10394990 | 9.655713 | up | Mboat2 | membrane bound O-acyltransferase domain containing 2 |
| 10559385 | 9.646064 | down | Mrgprf | MAS-related GPR, member F |
| 10481518 | 9.56218 | up | Ptges | prostaglandin E synthase |
| 10470775 | 9.539867 | down | Cercam | cerebral endothelial cell adhesion molecule |
| 10371332 | 9.53057 | down | Aldh1l2 | aldehyde dehydrogenase 1 family, member L2 |
| 10385391 | 9.419077 | up | Cyfp2 | cytoplasmic FMR1 interacting protein 2 |
| 10587150 | 9.3573065 | up | Myo5c | myosin VC |
| 10549097 | 9.3004675 | down | Ldhb | lactate dehydrogenase B |
| 10438708 | 9.257642 | down | Masp1 | mannan-binding lectin serine peptidase 1 |
| 10461869 | 9.204645 | up | Prune2 | prune homolog 2 (Drosophila) |
| 10406934 | 9.187114 | down | Etv1 | ets variant gene 1 |
| 10575034 | 9.176998 | down | Cdh3 | cadherin 3 |
| 10447190 | 9.175525 | down | Plekhh2 | pleckstrin homology domain containing, family H member 2 |
| 10391052 | 9.171434 | up | Krt14 | keratin 14 |
| 10514049 | 9.149523 | up | Nfib | nuclear factor I/B |
| 10498647 | 8.999073 | down | B3galnt1 | UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 1 |
| 10415411 | 8.998711 | down | BC030046 | |
| 10374406 | 8.992012 | down | Cnrip1 | cannabinoid receptor interacting protein 1 |
| 10404783 | 8.984142 | down | Edn1 | endothelin 1 |
| 10439009 | 8.967739 | down | Apod | apolipoprotein D |
| 10575873 | 8.92751 | up | Osgin1 | oxidative stress induced growth inhibitor 1 |
| 10366707 | 8.918631 | down | Avpr1a | arginine vasopressin receptor 1A |

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| | | | |
|----------|----------------|---------------|---|
| 10350506 | 8.891196 up | B830045N13Rik | RIKEN cDNA B830045N13 gene |
| 10544798 | 8.8261175 down | Hoxa10 | homeo box A10 |
| 10509838 | 8.815118 up | Padi2 | peptidyl arginine deiminase, type II |
| 10518526 | 8.769444 down | Angptl7 | angiopoietin-like 7 |
| 10547869 | 8.74895 down | Leprel2 | leprecan-like 2 |
| 10597575 | 8.707449 down | Plcd1 | phospholipase C, delta 1 |
| 10454881 | 8.68668 up | 0610010O12Rik | RIKEN cDNA 0610010O12 gene |
| 10573115 | 8.632779 down | Rnf150 | ring finger protein 150 |
| 10439218 | 8.612425 down | Pdia5 | protein disulfide isomerase associated 5 |
| 10509965 | 8.607994 up | Epha2 | Eph receptor A2 |
| 10516487 | 8.607849 up | Gjb4 | gap junction protein, beta 4 |
| 10535807 | 8.549299 down | Flt1 | FMS-like tyrosine kinase 1 |
| 10494978 | 8.5442 up | Ptpn22 | protein tyrosine phosphatase, non-receptor type 22 (lymphoid) |
| 10363735 | 8.521658 down | Egr2 | early growth response 2 |
| 10357965 | 8.480736 up | Lgr6 | leucine-rich repeat-containing G protein-coupled receptor 6 |
| 10422728 | 8.471141 down | Dab2 | disabled homolog 2 (Drosophila) |
| 10504375 | 8.447113 down | Npr2 | natriuretic peptide receptor 2 |
| 10544801 | 8.439857 down | Hoxa11 | homeo box A11 |
| 10544610 | 8.42251 down | Igf2bp3 | insulin-like growth factor 2 mRNA binding protein 3 |
| 10452648 | 8.415378 down | Emilin2 | elastin microfibril interfacier 2 |
| 10375360 | 8.396116 down | Ebf1 | early B-cell factor 1 |
| 10409876 | 8.367498 down | Ctla2a | cytotoxic T lymphocyte-associated protein 2 alpha |
| 10426081 | 8.340776 up | AW049604 | |
| 10602840 | 8.296631 down | Sh3kbp1 | SH3-domain kinase binding protein 1 |
| 10587503 | 8.283311 up | Sh3bgrl2 | SH3 domain binding glutamic acid-rich protein like 2 |
| 10412298 | 8.273882 down | Itga1 | integrin alpha 1 |
| 10404439 | 8.254917 up | Serpinh9b | serine (or cysteine) peptidase inhibitor, clade B, member 9b |
| 10502830 | 8.199779 down | Nexn | nexilin |
| 10544805 | 8.180805 down | Hoxa13 | homeo box A13 |
| 10498024 | 8.180329 up | Slc7a11 | solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 |
| 10499932 | 8.171139 up | Lce1h | late cornified envelope 1H |
| 10467013 | 8.169942 down | Prkg1 | protein kinase, cGMP-dependent, type I |
| 10366293 | 8.151084 down | Csrp2 | cysteine and glycine-rich protein 2 |
| 10416057 | 8.149338 up | Clu | clusterin |
| 10346015 | 8.148487 down | Col3a1 | collagen, type III, alpha 1 |
| 10595680 | 8.145355 down | Tbc1d2b | TBC1 domain family, member 2B |
| 10529656 | 8.121574 down | Nsg1 | neuron specific gene family member 1 |
| 10375667 | 8.105956 down | Rnf130 | ring finger protein 130 |

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|----------|----------------|----------------|--|
| 10407445 | 8.089977 up | Akr1c12 | aldo-keto reductase family 1, member C12 |
| 10354432 | 7.993532 down | Myo1b | myosin IB |
| 10398665 | 7.9870753 down | Tnfaip2 | tumor necrosis factor, alpha-induced protein 2 |
| 10459225 | 7.9867535 down | | |
| 10391119 | 7.9753156 down | 1110036O03Rik | RIKEN cDNA 1110036O03 gene |
| 10548687 | 7.9362354 down | EG545886 | |
| 10358733 | 7.9037576 down | Rgl1 | ral guanine nucleotide dissociation stimulator,-like 1 |
| 10344981 | 7.8657484 down | Pi15 | peptidase inhibitor 15 |
| 10415408 | 7.852402 down | BC030046 | |
| 10370587 | 7.8032475 down | Shc2 | src homology 2 domain-containing transforming protein C2 |
| 10499873 | 7.7672873 up | A030004J04Rik | RIKEN cDNA A030004J04 gene |
| 10529875 | 7.7637963 down | Ldb2 | LIM domain binding 2 |
| 10426812 | 7.7509103 up | Gpd1 | glycerol-3-phosphate dehydrogenase 1 (soluble) |
| 10400143 | 7.743093 up | Stxbp6 | syntaxin binding protein 6 (amisyn) |
| 10474936 | 7.7367 up | Spint1 | serine protease inhibitor, Kunitz type 1 |
| 10413710 | 7.7327833 down | Nt5dc2 | 5'-nucleotidase domain containing 2 |
| 10361771 | 7.7314367 down | Plagl1 | pleiomorphic adenoma gene-like 1 |
| 10557960 | 7.7066407 down | Tgfb1i1 | transforming growth factor beta 1 induced transcript 1 |
| 10530029 | 7.6370115 down | Lgi2 | leucine-rich repeat LGI family, member 2 |
| 10367772 | 7.6289105 up | Samd5 | sterile alpha motif domain containing 5 |
| 10423825 | 7.6052027 up | Fzd6 | frizzled homolog 6 (Drosophila) |
| 10541753 | 7.5998154 down | C530028O21Rik | RIKEN cDNA C530028O21 gene |
| 10398432 | 7.578622 down | | |
| 10565935 | 7.549394 down | Arhgef17 | Rho guanine nucleotide exchange factor (GEF) 17 |
| 10446763 | 7.5368285 down | Lbh LOC1000483 | limb-bud and heart similar to limb-bud and heart |
| 10353346 | 7.525938 up | Pkhd1 | polycystic kidney and hepatic disease 1 |
| 10571142 | 7.51845 down | Gpr124 | G protein-coupled receptor 124 |
| 10523772 | 7.4758515 up | Lrrc8d | leucine rich repeat containing 8D |
| 10433776 | 7.4444823 down | Snai2 | snail homolog 2 (Drosophila) |
| 10565255 | 7.421002 down | 9930013L23Rik | RIKEN cDNA 9930013L23 gene |
| 10457587 | 7.414527 down | Zfp521 | zinc finger protein 521 |
| 10396476 | 7.411119 down | Rhoj | ras homolog gene family, member J |
| 10361186 | 7.3874307 down | Sertad4 | SERTA domain containing 4 |
| 10382713 | 7.375203 up | Itgb4 | integrin beta 4 |
| 10435712 | 7.351968 down | Cd80 | CD80 antigen |
| 10400504 | 7.3497252 up | Foxa1 | forkhead box A1 |
| 10350123 | 7.3094406 down | Lmod1 | leiomodulin 1 (smooth muscle) |
| 10511333 | 7.270727 down | Plagl1 | pleiomorphic adenoma gene 1 |

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|----------|-----------|------|------------|--|
| 10466712 | 7.246039 | down | Mamdc2 | MAM domain containing 2 |
| 10369932 | 7.2335453 | down | Susd2 | sushi domain containing 2 |
| 10407072 | 7.2320704 | up | Elovl7 | ELOVL family member 7, elongation of long chain fatty acids (yeast) |
| 10590073 | 7.2255144 | up | Vill | villin-like |
| 10587241 | 7.2230096 | up | Hmgcll1 | 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase-like 1 |
| 10521759 | 7.216066 | down | Slit2 | slit homolog 2 (Drosophila) |
| 10373073 | 7.1965637 | down | D10Ert610e | DNA segment, Chr 10, ERATO Doi 610, expressed |
| 10485117 | 7.1822157 | down | Creb3l1 | cAMP responsive element binding protein 3-like 1 |
| 10572130 | 7.1688967 | down | Lpl | lipoprotein lipase |
| 10603583 | 7.1302323 | down | Srpx Rpgr | sushi-repeat-containing protein retinitis pigmentosa GTPase regulator |
| 10571907 | 7.126338 | up | Mfap3l | microfibrillar-associated protein 3-like |
| 10487894 | 7.1213346 | down | Rassf2 | Ras association (RalGDS/AF-6) domain family member 2 |
| 10556528 | 7.106383 | down | Pde3b | phosphodiesterase 3B, cGMP-inhibited |
| 10409866 | 7.054992 | down | Ctla2b | cytotoxic T lymphocyte-associated protein 2 beta |
| 10397633 | 7.001946 | down | Flrt2 | fibronectin leucine rich transmembrane protein 2 |
| 10584259 | 6.997585 | down | Fez1 | fasciculation and elongation protein zeta 1 (zygin I) |
| 10495206 | 6.9699783 | down | Slc16a4 | solute carrier family 16 (monocarboxylic acid transporters), member 4 |
| 10400304 | 6.951212 | down | Egln3 | EGL nine homolog 3 (C. elegans) |
| 10369431 | 6.9465566 | down | Adamts14 | disintegrin-like and metallopeptidase with thrombospondin type 1 motif, 14 |
| 10405343 | 6.9321713 | up | Tspan17 | tetraspanin 17 |
| 10388389 | 6.9087763 | down | Hic1 | hypermethylated in cancer 1 |
| 10607486 | 6.889822 | down | Ptchd1 | patched domain containing 1 |
| 10519998 | 6.875702 | down | Lrrc17 | leucine rich repeat containing 17 |
| 10604528 | 6.8588715 | up | Mbnl3 | muscleblind-like 3 (Drosophila) |
| 10508614 | 6.813407 | down | Fabp3 | fatty acid binding protein 3, muscle and heart |
| 10478048 | 6.8020844 | up | Lbp | lipopolysaccharide binding protein |
| 10554945 | 6.793367 | down | Prp | prolylcarboxypeptidase (angiotensinase C) |
| 10468668 | 6.793075 | up | Afap1l2 | actin filament associated protein 1-like 2 |
| 10423505 | 6.7677827 | up | Cdbl | carboxymethylenebutenolidase-like (Pseudomonas) |
| 10399691 | 6.7515535 | up | Id2 | inhibitor of DNA binding 2 |
| 10404913 | 6.7502837 | down | Cap2 | CAP, adenylate cyclase-associated protein, 2 (yeast) |
| 10406598 | 6.7144165 | up | Serinc5 | serine incorporator 5 |
| 10576049 | 6.709214 | down | Foxf1a | forkhead box F1a |
| 10568873 | 6.6851597 | up | Adam8 | a disintegrin and metallopeptidase domain 8 |
| 10410995 | 6.6728616 | up | Rasgrf2 | RAS protein-specific guanine nucleotide-releasing factor 2 |
| 10362091 | 6.6369953 | down | Raet1d | retinoic acid early transcript delta |
| 10401527 | 6.597974 | down | Ltbp2 | latent transforming growth factor beta binding protein 2 |
| 10495763 | 6.5913997 | up | Gclm | glutamate-cysteine ligase , modifier subunit |

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|----------|-----------|------|---------------|---|
| 10480139 | 6.58783 | down | C1ql3 | C1q-like 3 |
| 10402708 | 6.5846276 | down | Ckb | creatine kinase, brain |
| 10395596 | 6.5729275 | down | Foxg1 | forkhead box G1 |
| 10345762 | 6.5354247 | down | Il1r1 | interleukin 1 receptor, type I |
| 10469066 | 6.533306 | down | Ccdc3 | coiled-coil domain containing 3 |
| 10507099 | 6.509196 | up | OTTMUSG000001 | predicted gene, OTTMUSG00000008561 |
| 10450982 | 6.4963 | up | Gpr115 | G protein-coupled receptor 115 |
| 10496425 | 6.4772444 | up | Adh7 | alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide |
| 10495781 | 6.4691124 | up | Bcar3 | breast cancer anti-estrogen resistance 3 |
| 10578810 | 6.461238 | up | Clcn3 | chloride channel 3 |
| 10503334 | 6.4558735 | down | Gem | GTP binding protein (gene overexpressed in skeletal muscle) |
| 10517488 | 6.4273334 | down | Ephb2 | Eph receptor B2 |
| 10406676 | 6.392821 | up | Lhfp12 | lipoma HMGIC fusion partner-like 2 |
| 10357488 | 6.384227 | up | Cd55 | CD55 antigen |
| 10575497 | 6.3709364 | down | BC060632 | |
| 10357249 | 6.3650327 | down | Steap3 Steap1 | STEAP family member 3 1 |
| 10573319 | 6.3286347 | down | Podnl1 | podocan-like 1 |
| 10586079 | 6.3060594 | down | Itga11 | integrin, alpha 11 |
| 10398420 | 6.271719 | down | | |
| 10547153 | 6.248913 | up | Alox5 | arachidonate 5-lipoxygenase |
| 10567043 | 6.232189 | up | Rras2 | related RAS viral (r-ras) oncogene homolog 2 |
| 10545458 | 6.1911283 | down | Tcf3 | transcription factor 3 |
| 10587339 | 6.183637 | up | Gsta2 Gsta1 | predicted gene, ENSMUSG00000074179 |
| 10431210 | 6.1538916 | up | Wnt7b | wingless-related MMTV integration site 7B |
| 10367400 | 6.1148257 | down | Mmp19 | matrix metalloproteinase 19 |
| 10501063 | 6.108297 | down | Cd53 | CD53 antigen |
| 10491477 | 6.088679 | up | Sox2 | SRY-box containing gene 2 |
| 10513256 | 6.0867047 | down | Lpar1 | lysophosphatidic acid receptor 1 |
| 10367634 | 6.038787 | down | Akap12 | A kinase (PRKA) anchor protein (gravin) 12 |
| 10461408 | 6.0366516 | down | Rab3il1 | RAB3A interacting protein (rabin3)-like 1 |
| 10385175 | 6.0302305 | up | Wwc1 | WW, C2 and coiled-coil domain containing 1 |
| 10563085 | 6.0258017 | down | Fcgrt | Fc receptor, IgG, alpha chain transporter |
| 10371379 | 6.013474 | down | Nuak1 | NUAK family, SNF1-like kinase, 1 |
| 10468980 | 6.0082946 | up | 3110001A13Rik | RIKEN cDNA 3110001A13 gene |
| 10587383 | 6.0049534 | down | Cd109 | CD109 antigen |
| 10509267 | 6.000953 | up | Wnt4 | wingless-related MMTV integration site 4 |
| 10411595 | 5.9904723 | up | Naip2 | NLR family, apoptosis inhibitory protein 2 |
| 10535053 | 5.9823422 | down | Prkar1b | protein kinase, cAMP dependent regulatory, type I beta |

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|----------|----------------|---------------|---|
| 10558840 | 5.9730105 up | Rassf7 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 7 |
| 10371296 | 5.962332 down | Glt8d2 | glycosyltransferase 8 domain containing 2 |
| 10549733 | 5.954628 down | A430110N23Rik | RIKEN cDNA A430110N23 gene |
| 10428857 | 5.9526267 down | Mtss1 | metastasis suppressor 1 |
| 10429140 | 5.9426875 up | Ndrp1 | N-myc downstream regulated gene 1 |
| 10586591 | 5.9298244 up | Car12 | carbonic anhydrase 12 |
| 10547807 | 5.9280095 down | Eno2 | enolase 2, gamma neuronal |
| 10418171 | 5.922984 down | 2310047A01Rik | RIKEN cDNA 2310047A01 gene |
| 10399588 | 5.906053 down | Zfp125 | zinc finger protein 125 |
| 10441270 | 5.892525 up | Ripk4 | receptor-interacting serine-threonine kinase 4 |
| 10362097 | 5.888188 down | Raet1b H60b | retinoic acid early transcript beta histocompatibility 60b |
| 10399337 | 5.877167 down | Klhl29 | kelch-like 29 (Drosophila) |
| 10526120 | 5.8756113 down | Tpst1 | protein-tyrosine sulfotransferase 1 |
| 10399908 | 5.872443 down | Prkar2b | protein kinase, cAMP dependent regulatory, type II beta |
| 10601874 | 5.8688784 down | Tceal3 | transcription elongation factor A (SII)-like 3 |
| 10368317 | 5.852396 down | Enpp3 | ectonucleotide pyrophosphatase/phosphodiesterase 3 |
| 10520604 | 5.839489 down | Emilin1 | elastin microfibril interfacer 1 |
| 10475314 | 5.8321 down | Mtap1a | microtubule-associated protein 1 A |
| 10488322 | 5.7964845 up | A230067G21Rik | RIKEN cDNA A230067G21 gene |
| 10431872 | 5.785192 up | Slc38a1 | solute carrier family 38, member 1 |
| 10449284 | 5.7406363 down | Dusp1 | dual specificity phosphatase 1 |
| 10500276 | 5.728131 down | BC028528 | |
| 10367982 | 5.6992807 up | Gpr126 | G protein-coupled receptor 126 |
| 10493850 | 5.6728215 up | Spr2a | small proline-rich protein 2A hypothetical protein LOC100042514 |
| 10398442 | 5.6652856 down | Mirg | miRNA containing gene |
| 10472136 | 5.6644597 down | Galnt13 | UDP-N-acetyl-alpha-D-galactosamine |
| 10490551 | 5.651149 up | Nkain4 | Na ⁺ /K ⁺ transporting ATPase interacting 4 |
| 10349562 | 5.650564 up | AA986860 | |
| 10445640 | 5.650482 down | Trerf1 | transcriptional regulating factor 1 |
| 10573865 | 5.642931 up | LOC433762 | |
| 10508800 | 5.626384 up | LOC433762 | |
| 10424905 | 5.6218076 up | Scx | scleraxis |
| 10505489 | 5.6171827 down | Pappa | pregnancy-associated plasma protein A |
| 10412517 | 5.6074758 down | ENSMUSG00000 | predicted gene, ENSMUSG00000057445 |
| 10519693 | 5.5886583 down | Sema3d | sema domain, immunoglobulin domain (Ig), (semaphorin) 3D |
| 10469695 | 5.5573173 down | Apbb1ip | amyloid beta (A4) precursor protein-binding, member 1 interacting protein |
| 10542470 | 5.5416365 up | Mgst1 | microsomal glutathione S-transferase 1 |
| 10482929 | 5.533481 up | Ly75 | lymphocyte antigen 75 |

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|----------|-----------|------|---------------|---|
| 10451932 | 5.5034513 | down | S3-12 | |
| 10404975 | 5.488135 | down | Id4 | inhibitor of DNA binding 4 |
| 10595148 | 5.486755 | up | Gsta2 | glutathione S-transferase, alpha 2 (Yc2) |
| 10483719 | 5.439731 | down | Chn1 | chimerin (chimaerin) 1 |
| 10400170 | 5.429444 | down | Prkd1 | protein kinase D1 |
| 10514240 | 5.4285703 | up | Slc24a2 | solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 |
| 10468762 | 5.4208317 | up | 4930506M07Rik | RIKEN cDNA 4930506M07 gene |
| 10359582 | 5.4087515 | down | Fmo2 | flavin containing monooxygenase 2 |
| 10385236 | 5.397117 | up | Akr1b3 | aldo-keto reductase family 1, member B3 (aldose reductase) |
| 10412882 | 5.3848796 | down | Thrb | thyroid hormone receptor beta |
| 10490384 | 5.380377 | up | Lama5 | laminin, alpha 5 |
| 10575763 | 5.3786006 | up | Gan | giant axonal neuropathy |
| 10523579 | 5.3714976 | down | Arhgap24 | Rho GTPase activating protein 24 |
| 10594758 | 5.3629775 | up | Gcnt3 | glucosaminyl (N-acetyl) transferase 3, mucin type |
| 10398362 | 5.3538957 | down | Rian | RNA imprinted and accumulated in nucleus |
| 10461878 | 5.3501897 | up | A230083H22Rik | RIKEN cDNA A230083H22 gene |
| 10415396 | 5.3486724 | down | Nfatc4 | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 |
| 10451559 | 5.3208327 | up | 1700001C19Rik | RIKEN cDNA 1700001C19 gene |
| 10484894 | 5.313629 | up | Ptprj | protein tyrosine phosphatase, receptor type, J |
| 10504534 | 5.313074 | up | Frmpd1 | FERM and PDZ domain containing 1 |
| 10477169 | 5.311596 | up | Id1 | inhibitor of DNA binding 1 |
| 10601844 | 5.296992 | down | Bhlhb9 | basic helix-loop-helix domain containing, class B9 |
| 10466745 | 5.2893853 | up | Tjp2 | tight junction protein 2 |
| 10558880 | 5.2820163 | up | Eps8l2 | EPS8-like 2 |
| 10346838 | 5.2669086 | down | Pard3b | par-3 partitioning defective 3 homolog B (C. elegans) |
| 10483249 | 5.2581234 | up | Galnt3 | UDP-N-acetyl-alpha-D-galactosamine |
| 10488507 | 5.257044 | up | Abhd12 | abhydrolase domain containing 12 |
| 10542738 | 5.238738 | down | Rassf8 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 8 |
| 10509280 | 5.23529 | down | Hspg2 | perlecan (heparan sulfate proteoglycan 2) |
| 10354768 | 5.231173 | up | Akr1b3 | aldo-keto reductase family 1, member B3 (aldose reductase) |
| 10346164 | 5.2267194 | down | Sdpr | serum deprivation response |
| 10522467 | 5.222304 | down | Rasl11b | RAS-like, family 11, member B |
| 10489985 | 5.220385 | up | Atp9a | ATPase, class II, type 9A |
| 10384483 | 5.2003794 | up | | |
| 10543859 | 5.1744604 | up | Akr1b3 | aldo-keto reductase family 1, member B3 (aldose reductase) |
| 10519324 | 5.1678185 | up | Cdk6 | cyclin-dependent kinase 6 |
| 10577712 | 5.1430483 | down | Adam5 | a disintegrin and metallopeptidase domain 5 |
| 10578045 | 5.1303606 | down | Nrg1 | neuregulin 1 |

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|----------|-----------|------|---------------------|--|
| 10510215 | 5.127799 | down | OTTMUSG00000010657 | |
| 10542731 | 5.1037164 | down | Rassf8 | Ras association (RalGDS/AF-6) domain family (N-terminal) member 8 |
| 10372648 | 5.1036725 | down | Lyz2 | lysozyme 2 |
| 10484888 | 5.097614 | up | LOC668629 LOC668629 | similar to PTPRJ similar to protein tyrosine phosphatase, receptor type, J |
| 10419015 | 5.089548 | up | Pcdh21 | protocadherin 21 |
| 10558687 | 5.085704 | up | 1190003J15Rik | RIKEN cDNA 1190003J15 gene |
| 10472965 | 5.084776 | down | Hoxd8 | homeo box D8 |
| 10554752 | 5.0721116 | up | Nox4 | NADPH oxidase 4 |
| 10425031 | 5.0624647 | up | Apol6 | apolipoprotein L 6 |
| 10477042 | 5.054744 | down | Angpt4 | angiopoietin 4 |
| 10479981 | 5.0534773 | up | Gata3 | GATA binding protein 3 |
| 10464391 | 5.050834 | down | Emx2 | empty spiracles homolog 2 (Drosophila) |
| 10573008 | 5.049512 | down | Zfp827 | zinc finger protein 827 |
| 10499216 | 5.036251 | down | Pear1 | platelet endothelial aggregation receptor 1 |
| 10406982 | 5.0211263 | down | Adamts6 | a disintegrin-like and metalloproteinase with thrombospondin type 1 motif, 6 |
| 10476021 | 4.9976716 | down | Sirpa | signal-regulatory protein alpha |
| 10587799 | 4.9951367 | up | Plscr2 | phospholipid scramblase 2 |
| 10579012 | 4.98781 | down | Csgalnact1 | chondroitin sulfate N-acetylgalactosaminyltransferase 1 |
| 10502772 | 4.963924 | down | Lphn2 | latrophilin 2 |
| 10374777 | 4.9577017 | up | Efemp1 | epidermal growth factor-containing fibulin-like extracellular matrix protein 1 |
| 10428604 | 4.956145 | down | Tnfrsf11b | tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) |
| 10555235 | 4.949656 | up | Arrb1 | arrestin, beta 1 |
| 10490777 | 4.942386 | down | Zfx4 | zinc finger homeodomain 4 |
| 10489484 | 4.939977 | up | Sdc4 | syndecan 4 |
| 10360863 | 4.938996 | down | Mark1 | MAP/microtubule affinity-regulating kinase 1 |
| 10351463 | 4.9214087 | up | Rgs5 | regulator of G-protein signaling 5 |
| 10379153 | 4.9155545 | up | Aldoc | aldolase 3, C isoform |
| 10462231 | 4.9077168 | up | Dmrt2 | doublesex and mab-3 related transcription factor 2 |
| 10572897 | 4.887087 | down | Hmox1 | heme oxygenase (decycling) 1 |
| 10478962 | 4.8856173 | up | 2010011I20Rik | RIKEN cDNA 2010011I20 gene |
| 10586250 | 4.87137 | down | Dennd4a | DENN/MADD domain containing 4A |
| 10562192 | 4.8553724 | down | Fxyd5 | FXDY domain-containing ion transport regulator 5 |
| 10598138 | 4.855233 | down | Spry3 | sprouty homolog 3 (Drosophila) |
| 10423109 | 4.8412614 | down | Adamts12 | a disintegrin-like and metalloproteinase with thrombospondin type 1 motif, 12 |
| 10383025 | 4.84029 | down | C1qtnf1 | C1q and tumor necrosis factor related protein 1 |
| 10407327 | 4.8299217 | up | Emb | embigin |
| 10399465 | 4.825157 | up | AW125753 | |
| 10542880 | 4.819735 | up | 4833442J19Rik | RIKEN cDNA 4833442J19 gene |

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|----------|-----------|------|------------------|--|
| 10586248 | 4.8122888 | down | Dennd4a | DENN/MADD domain containing 4A |
| 10552245 | 4.8032517 | down | Tshz3 | teashirt zinc finger family member 3 |
| 10432032 | 4.7979393 | up | Vdr | vitamin D receptor |
| 10565689 | 4.7926154 | up | Capn5 | calpain 5 |
| 10605711 | 4.785545 | down | Pdk3 | pyruvate dehydrogenase kinase, isoenzyme 3 |
| 10488378 | 4.7752795 | down | Thbd | thrombomodulin |
| 10437195 | 4.7724648 | up | Igsf5 Pcp4 | immunoglobulin superfamily, member 5 Purkinje cell protein 4 |
| 10588263 | 4.767273 | up | Slco2a1 | solute carrier organic anion transporter family, member 2a1 |
| 10409240 | 4.761398 | up | Sema4d | semaphorin 4D |
| 10378649 | 4.7432904 | up | Slc43a2 | solute carrier family 43, member 2 |
| 10407211 | 4.7352624 | down | Ppap2a | phosphatidic acid phosphatase 2a |
| 10369531 | 4.725211 | up | Tspan15 | tetraspanin 15 |
| 10552156 | 4.7234592 | up | Rhpn2 | rhopilin, Rho GTPase binding protein 2 |
| 10435345 | 4.7230034 | down | Mylk | myosin, light polypeptide kinase |
| 10554269 | 4.717479 | up | Abhd2 | abhydrolase domain containing 2 |
| 10574471 | 4.7077785 | down | Cmtm3 | CKLF-like MARVEL transmembrane domain containing 3 |
| 10538811 | 4.7029104 | down | Prdm5 | PR domain containing 5 |
| 10368647 | 4.693469 | down | Dse | dermatan sulfate epimerase |
| 10444890 | 4.692106 | up | Ier3 | immediate early response 3 |
| 10591967 | 4.6745524 | down | Jam3 | junction adhesion molecule 3 |
| 10544660 | 4.6659284 | up | Osbpl3 | oxysterol binding protein-like 3 |
| 10466976 | 4.665151 | up | Gldc | glycine decarboxylase |
| 10539263 | 4.6644697 | down | Loxl3 | lysyl oxidase-like 3 |
| 10596051 | 4.6567445 | up | Tmem22 | transmembrane protein 22 |
| 10367945 | 4.650775 | down | Phactr2 | phosphatase and actin regulator 2 |
| 10375956 | 4.6380816 | down | Fstl4 | follicle-stimulating hormone receptor-like 4 |
| 10373571 | 4.637283 | down | 1110012D08Rik | RIKEN cDNA 1110012D08 gene |
| 10534718 | 4.6362805 | down | Trip6 | thyroid hormone receptor interactor 6 |
| 10516735 | 4.636253 | up | Tinagl | tubulointerstitial nephritis antigen-like |
| 10431874 | 4.63625 | up | Slc38a1 | solute carrier family 38, member 1 |
| 10601846 | 4.6344986 | down | 2900062L11Rik 6: | RIKEN cDNA 2900062L11 gene RIKEN cDNA 6530401D17 gene |
| 10536294 | 4.6344023 | down | Peg10 | paternally expressed 10 |
| 10413419 | 4.612745 | up | Arhgef3 | Rho guanine nucleotide exchange factor (GEF) 3 |
| 10399457 | 4.6063585 | up | Akr1b3 | aldo-keto reductase family 1, member B3 (aldose reductase) |
| 10490845 | 4.6051617 | up | Chmp4c | chromatin modifying protein 4C similar to chromatin modifying protein 4C |
| 10427035 | 4.60469 | down | Nr4a1 | nuclear receptor subfamily 4, group A, member 1 |
| 10606389 | 4.6007576 | up | Gm379 | gene model 379, (NCBI) |
| 10500295 | 4.596254 | down | Plekho1 | pleckstrin homology domain containing, family O member 1 |

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|----------|----------------|---------------|--|
| 10519747 | 4.596102 up | Sema3e | semaphorin 3E |
| 10347767 | 4.5900993 down | Kcne4 | potassium voltage-gated channel, Isk-related subfamily, gene 4 |
| 10475247 | 4.5884733 up | Tmem62 | transmembrane protein 62 |
| 10504775 | 4.582517 down | Col15a1 | collagen, type XV, alpha 1 |
| 10539517 | 4.5787096 down | Dysf | dysferlin |
| 10509273 | 4.575864 up | Wnt4 | wingless-related MMTV integration site 4 |
| 10586244 | 4.5707245 down | Dennd4a | DENN/MADD domain containing 4A |
| 10395320 | 4.562497 down | Twist1 | twist gene homolog 1 (Drosophila) |
| 10451710 | 4.5486236 down | Rftn1 | raftlin lipid raft linker 1 |
| 10404702 | 4.544369 up | Gcnt2 | glucosaminyl (N-acetyl) transferase 2, I-branching enzyme |
| 10493856 | 4.5433345 up | Sprr2a | small proline-rich protein 2A |
| 10493858 | 4.5403595 up | Sprr2a | small proline-rich protein 2A |
| 10558159 | 4.5328593 up | Dmbt1 | deleted in malignant brain tumors 1 |
| 10423333 | 4.5139003 up | 1810015C04Rik | RIKEN cDNA 1810015C04 gene |
| 10414537 | 4.503993 down | Ang Rnase4 | angiogenin, ribonuclease, RNase A family, 5 ribonuclease, RNase A family 4 |
| 10537657 | 4.5022144 up | Ephb6 Mon2 | Eph receptor B6 MON2 homolog (yeast) |
| 10488060 | 4.4737043 up | Jag1 | jagged 1 |
| 10392183 | 4.4620576 up | Ern1 | endoplasmic reticulum (ER) to nucleus signalling 1 |
| 10346843 | 4.4563775 down | Nrp2 | neuropilin 2 |
| 10592067 | 4.445447 down | Fli1 | Friend leukemia integration 1 |
| 10586252 | 4.4376283 down | Dennd4a | DENN/MADD domain containing 4A |
| 10526566 | 4.436037 down | Ephb4 | Eph receptor B4 |
| 10555205 | 4.4185743 up | Gdpd5 | glycerophosphodiester phosphodiesterase domain containing 5 |
| 10601771 | 4.4182835 down | Armcx1 | armadillo repeat containing, X-linked 1 |
| 10362314 | 4.4074583 up | Ptprk | protein tyrosine phosphatase, receptor type, K |
| 10456653 | 4.4072924 up | Myo5b | myosin Vb |
| 10468309 | 4.394065 down | 2310014D11Rik | RIKEN cDNA 2310014D11 gene |
| 10427898 | 4.384325 down | Fbxl7 | F-box and leucine-rich repeat protein 7 |
| 10586433 | 4.373193 down | Rbpms2 | RNA binding protein with multiple splicing 2 |
| 10387648 | 4.364379 up | Tmem102 | transmembrane protein 102 |
| 10574676 | 4.362613 down | Nol3 | nucleolar protein 3 (apoptosis repressor with CARD domain) |
| 10586246 | 4.35102 down | Dennd4a | DENN/MADD domain containing 4A |
| 10486197 | 4.3455687 up | Rhov | ras homolog gene family, member V |
| 10406005 | 4.3339977 up | Irx2 | Iroquois related homeobox 2 (Drosophila) |
| 10421911 | 4.3260818 down | Pcdh20 | protocadherin 20 |
| 10399470 | 4.32104 down | Trib2 | tribbles homolog 2 (Drosophila) |
| 10467425 | 4.3131967 down | Sorbs1 | sorbin and SH3 domain containing 1 |
| 10573939 | 4.2972355 up | Lpcat2 | lysophosphatidylcholine acyltransferase 2 |

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|----------|----------------|---------------|---|
| 10603182 | 4.274309 up | Arhgap6 | Rho GTPase activating protein 6 |
| 10440091 | 4.2588506 down | Col8a1 | collagen, type VIII, alpha 1 |
| 10404792 | 4.2587295 down | Phactr1 | phosphatase and actin regulator 1 |
| 10452793 | 4.2500944 up | Galnt14 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-AGAT 14 |
| 10350864 | 4.248107 down | Sec16b | SEC16 homolog B (<i>S. cerevisiae</i>) |
| 10574166 | 4.2335258 down | Cpne2 | copine II |
| 10586240 | 4.2308316 down | Dennd4a | DENN/MADD domain containing 4A |
| 10387170 | 4.230697 down | Ntn1 | netrin 1 similar to Netrin-1 precursor |
| 10467508 | 4.226278 up | Blnk | B-cell linker |
| 10512022 | 4.2173853 up | Mobk12b | MOB1, Mps One Binder kinase activator-like 2B (yeast) |
| 10481210 | 4.217239 up | Vav2 | vav 2 oncogene |
| 10472923 | 4.180605 down | Ak311 | adenylate kinase 3 alpha-like 1 similar to adenylate kinase 4 |
| 10389775 | 4.17671 up | Pctp | phosphatidylcholine transfer protein |
| 10467739 | 4.173979 up | Avpi1 | arginine vasopressin-induced 1 |
| 10503448 | 4.1739693 down | Mmp16 | matrix metalloproteinase 16 |
| 10524327 | 4.1731887 down | Mn1 | meningioma 1 |
| 10461439 | 4.163441 down | Fads1 | fatty acid desaturase 1 |
| 10501971 | 4.1513643 down | Ank2 | ankyrin 2, brain |
| 10370544 | 4.137968 down | 2610008E11Rik | RIKEN cDNA 2610008E11 gene |
| 10589329 | 4.134366 up | Pfkfb4 | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 |
| 10437516 | 4.126246 up | Ppl | periplakin |
| 10479852 | 4.1250978 up | Camk1d | calcium/calmodulin-dependent protein kinase ID |
| 10447602 | 4.120447 up | Ezr | ezrin |
| 10600921 | 4.084951 down | Stard8 | START domain containing 8 |
| 10410766 | 4.084083 down | Nr2f1 | nuclear receptor subfamily 2, group F, member 1 |
| 10358027 | 4.072275 up | Elf3 | E74-like factor 3 |
| 10417421 | 4.0716023 down | Hn1 | hematological and neurological expressed 1-like |
| 10362896 | 4.0685325 up | Cd24a | CD24a antigen |
| 10466779 | 4.054255 up | Pip5k1b | phosphatidylinositol-4-phosphate 5-kinase, type 1 beta |
| 10602198 | 4.0399904 down | Pak3 | p21 (CDKN1A)-activated kinase 3 |
| 10409314 | 4.0382066 up | Msx2 | homeobox, msh-like 2 |
| 10458052 | 4.0325823 up | Epb4.114a | erythrocyte protein band 4.1-like 4a |
| 10543017 | 4.030441 down | Pdk4 | pyruvate dehydrogenase kinase, isoenzyme 4 |
| 10478692 | 4.004745 down | Slc2a10 | solute carrier family 2 (facilitated glucose transporter), member 10 |
| 10376832 | 3.9945476 down | Adora2b | adenosine A2b receptor |
| 10391762 | 3.9942625 down | Gjc1 | gap junction protein, gamma 1 |
| 10383502 | 3.9881494 down | Slc16a3 | solute carrier family 16 (monocarboxylic acid transporters), member 3 |
| 10398366 | 3.9845722 down | | |

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|----------|-----------|------|---------------|---|
| 10433445 | 3.982679 | down | Abat | 4-aminobutyrate aminotransferase |
| 10593413 | 3.9797707 | up | 2310030G06Rik | RIKEN cDNA 2310030G06 gene |
| 10591614 | 3.9684691 | down | Dock6 | dedicator of cytokinesis 6 |
| 10594679 | 3.9639714 | up | Tln2 | talin 2 |
| 10495285 | 3.963006 | up | Sort1 | sortilin 1 |
| 10378319 | 3.958759 | down | P2rx5 | purinergic receptor P2X, ligand-gated ion channel, 5 |
| 10546421 | 3.9548461 | down | Prickle2 | prickle-like 2 (Drosophila) |
| 10453456 | 3.9477756 | up | Kcnk12 | potassium channel, subfamily K, member 12 |
| 10365817 | 3.9449375 | up | Ntn4 | netrin 4 |
| 10547322 | 3.9437902 | down | Cacna1c | calcium channel, voltage-dependent, L type, alpha 1C subunit |
| 10479195 | 3.9426901 | up | RP23-232H13.5 | KRAB box and zinc finger, C2H2 type domain containing protein |
| 10497463 | 3.939344 | down | Cpb1 | carboxypeptidase B1 (tissue) |
| 10479198 | 3.9387255 | up | RP23-442I10.2 | KRAB box and zinc finger, C2H2 type domain containing protein |
| 10479192 | 3.9386942 | up | RP23-442I10.2 | KRAB box and zinc finger, C2H2 type domain containing protein |
| 10358476 | 3.9380772 | down | Prg4 | proteoglycan 4 (megakaryocyte stimulating factor, articular zone protein) |
| 10437160 | 3.9313276 | up | Ets2 | E26 avian leukemia oncogene 2, 3' domain |
| 10490273 | 3.9298205 | up | RP23-232H13.5 | KRAB box and zinc finger, C2H2 type domain containing protein |
| 10494643 | 3.9272108 | up | Hmgcs2 | 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 |
| 10349569 | 3.925373 | up | | |
| 10445574 | 3.9129844 | down | Cul7 | cullin 7 |
| 10439955 | 3.898642 | up | Gm1752 | gene model 1752, (NCBI) |
| 10499378 | 3.898133 | up | Sema4a | semaphorin 4A |
| 10547657 | 3.8963993 | down | C3ar1 | complement component 3a receptor 1 |
| 10605815 | 3.8932157 | down | Asb12 | ankyrin repeat and SOCS box-containing protein 12 |
| 10527920 | 3.891348 | down | Cyp51 | cytochrome P450, family 51 |
| 10361191 | 3.8825412 | up | Syt14 | synaptotagmin XIV |
| 10496276 | 3.880582 | up | Nhedc1 | Na ⁺ /H ⁺ exchanger domain containing 1 |
| 10361869 | 3.8777485 | up | Nhs1 | NHS-like 1 |
| 10604694 | 3.8672698 | down | Mtap7d3 | MAP7 domain containing 3 |
| 10360398 | 3.8606098 | down | Ifi202b | interferon activated gene 202B |
| 10556546 | 3.830726 | up | Calcb | calcitonin-related polypeptide, beta |
| 10586227 | 3.829836 | down | F730015K02Rik | RIKEN cDNA F730015K02 gene |
| 10535231 | 3.827672 | down | Ttyh3 | tweety homolog 3 (Drosophila) |
| 10453049 | 3.8276086 | down | Cdc42ep3 | CDC42 effector protein (Rho GTPase binding) 3 |
| 10435641 | 3.8257544 | down | Fstl1 | follicle-stimulating hormone-like 1 |
| 10491414 | 3.8194993 | down | Usp13 | ubiquitin specific peptidase 13 (isopeptidase T-3) |
| 10466735 | 3.8186762 | up | Gm967 | gene model 967, (NCBI) |
| 10556082 | 3.8144414 | up | Ppfbp2 | protein tyrosine phosphatase, F interacting protein, binding protein 2 |

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|----------|-----------|------|---------------|--|
| 10562323 | 3.8116727 | down | Wtip | WT1-interacting protein |
| 10362968 | 3.8111334 | down | Bves | blood vessel epicardial substance |
| 10497689 | 3.8013158 | down | Gnb4 | guanine nucleotide binding protein (G protein), beta 4 |
| 10553521 | 3.798642 | down | Gas2 | growth arrest specific 2 |
| 10353775 | 3.7965846 | down | B230209C24Rik | RIKEN cDNA B230209C24 gene |
| 10495685 | 3.775644 | down | Arhgap29 | Rho GTPase activating protein 29 |
| 10568436 | 3.7732725 | down | Fgfr2 | fibroblast growth factor receptor 2 |
| 10346374 | 3.7711928 | up | Aox1 | aldehyde oxidase 1 |
| 10502230 | 3.770612 | down | | |
| 10444459 | 3.7446415 | up | Tnxb | tenascin XB |
| 10375358 | 3.741744 | down | Ebf1 | early B-cell factor 1 |
| 10550332 | 3.7397718 | down | Slc1a5 | solute carrier family 1 (neutral amino acid transporter), member 5 |
| 10434880 | 3.7347038 | down | Hrasls | HRAS-like suppressor |
| 10478698 | 3.7342088 | down | Eya2 | eyes absent 2 homolog (Drosophila) |
| 10579763 | 3.7313786 | up | | |
| 10416777 | 3.7292013 | up | Klf5 | Kruppel-like factor 5 |
| 10354506 | 3.7281008 | up | 2210010L05Rik | RIKEN cDNA 2210010L05 gene |
| 10437885 | 3.7270486 | down | Myh11 | myosin, heavy polypeptide 11, smooth muscle |
| 10552037 | 3.7175999 | up | Sbsn | suprabasin |
| 10453604 | 3.715347 | down | Bambi | BMP and activin membrane-bound inhibitor, homolog (Xenopus laevis) |
| 10540935 | 3.7083027 | down | Cand2 | cullin-associated and neddylation-dissociated 2 (putative) |
| 10368289 | 3.7024682 | down | Enpp1 | ectonucleotide pyrophosphatase/phosphodiesterase 1 |
| 10397145 | 3.7010722 | down | Acot2 | acyl-CoA thioesterase 2 |
| 10379727 | 3.7007897 | down | | |
| 10361882 | 3.6973393 | up | Nhsl1 | NHS-like 1 |
| 10474045 | 3.6937141 | up | Chst1 | carbohydrate (keratan sulfate Gal-6) sulfotransferase 1 |
| 10587266 | 3.6818922 | up | Gclc | glutamate-cysteine ligase, catalytic subunit |
| 10356084 | 3.676804 | down | Irs1 | insulin receptor substrate 1 |
| 10507908 | 3.6656554 | down | Fhl3 | four and a half LIM domains 3 |
| 10394471 | 3.6606767 | up | Sdc1 | syndecan 1 |
| 10606609 | 3.658318 | down | Tspan6 | tetraspanin 6 |
| 10530156 | 3.6551394 | up | Tmem156 | transmembrane protein 156 |
| 10520362 | 3.654475 | down | Insig1 | insulin induced gene 1 |
| 10571344 | 3.650209 | up | D8Ertd82e | DNA segment, Chr 8, ERATO Doi 82, expressed |
| 10605431 | 3.6469398 | down | Rab39b | RAB39B, member RAS oncogene family |
| 10521984 | 3.6450007 | up | G6pd2 | glucose-6-phosphate dehydrogenase 2 |
| 10600093 | 3.642196 | up | Zfp185 | zinc finger protein 185 |
| 10465916 | 3.6376195 | down | Gm98 | gene model 98, (NCBI) |

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|----------|-----------|------|--------------------|--|
| 10408935 | 3.6363633 | down | ENSMUSG00000074917 | |
| 10589654 | 3.6303446 | up | Als2cl | ALS2 C-terminal like |
| 10485597 | 3.616573 | up | Depdc7 | DEP domain containing 7 |
| 10501208 | 3.6153898 | up | Gstm6 | glutathione S-transferase, mu 6 |
| 10472400 | 3.612263 | down | Scn2a1 | sodium channel, voltage-gated, type II, alpha 1 |
| 10398368 | 3.5985005 | down | | |
| 10398376 | 3.5954 | down | | |
| 10417258 | 3.5945399 | down | ENSMUSG000000 | predicted gene, ENSMUSG00000063277 |
| 10398372 | 3.593612 | down | | |
| 10346607 | 3.5925968 | down | Fzd7 | frizzled homolog 7 (Drosophila) |
| 10554808 | 3.5877197 | up | Fzd4 | frizzled homolog 4 (Drosophila) |
| 10544875 | 3.5864131 | down | Scrn1 | secernin 1 |
| 10483000 | 3.5845857 | up | Itgb6 | integrin beta 6 |
| 10395163 | 3.5751438 | down | Lamb1-1 | laminin B1 subunit 1 |
| 10604564 | 3.5600905 | down | Gpc4 | glypican 4 |
| 10424349 | 3.557684 | down | Sqle | squalene epoxidase |
| 10398240 | 3.555401 | down | Eml1 | echinoderm microtubule associated protein like 1 |
| 10595718 | 3.5551472 | down | Chst2 | carbohydrate sulfotransferase 2 |
| 10562905 | 3.5482295 | down | Atf5 | activating transcription factor 5 |
| 10499935 | 3.5480125 | up | Lce1i | late cornified envelope 1l |
| 10518735 | 3.5471473 | up | Spsb1 | splA/ryanodine receptor domain and SOCS box containing 1 |
| 10356475 | 3.546268 | up | Arl4c | ADP-ribosylation factor-like 4C |
| 10472398 | 3.5407295 | down | Scn2a1 | sodium channel, voltage-gated, type II, alpha 1 |
| 10389894 | 3.54019 | up | Abcc3 | ATP-binding cassette, sub-family C (CFTR/MRP), member 3 |
| 10544788 | 3.536816 | down | Hoxa9 | homeo box A9 |
| 10470050 | 3.534029 | up | Abca2 | ATP-binding cassette, sub-family A (ABC1), member 2 |
| 10417235 | 3.5289118 | down | ENSMUSG000000 | predicted gene, ENSMUSG00000068790 |
| 10466304 | 3.527158 | up | Dtx4 | deltex 4 homolog (Drosophila) |
| 10417315 | 3.5247457 | down | LOC100041306 | alpha23-takusan |
| 10362387 | 3.5244849 | up | | |
| 10482687 | 3.5192792 | down | Arl5a | ADP-ribosylation factor-like 5A |
| 10420268 | 3.5021615 | up | Gzme | granzyme E |
| 10582664 | 3.4913762 | down | 2310022B05Rik | RIKEN cDNA 2310022B05 gene |
| 10605338 | 3.4831214 | up | G6pdx | glucose-6-phosphate dehydrogenase X-linked |
| 10586254 | 3.4795198 | down | Dennd4a | DENN/MADD domain containing 4A |
| 10439527 | 3.4750617 | up | LOC100043314 | similar to poliovirus receptor-related 4 |
| 10376868 | 3.4692616 | down | Trpv2 | transient receptor potential cation channel, subfamily V, member 2 |
| 10417302 | 3.469093 | down | ENSMUSG000000 | predicted gene, ENSMUSG00000063277 |

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|----------|----------------|--------------------|---|
| 10406111 | 3.465411 up | Slc12a7 | solute carrier family 12, member 7 |
| 10425287 | 3.4503238 down | Kdelr3 | KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3 |
| 10579872 | 3.430429 up | Tpd52 | tumor protein D52 |
| 10377938 | 3.4269748 down | Eno3 | enolase 3, beta muscle |
| 10535559 | 3.4160821 up | Baiap2l1 | BAI1-associated protein 2-like 1 |
| 10594855 | 3.411287 up | Cgnl1 | cingulin-like 1 |
| 10590909 | 3.4110546 up | Endod1 | endonuclease domain containing 1 |
| 10515007 | 3.3882449 down | Gpx7 | glutathione peroxidase 7 |
| 10425945 | 3.3862722 down | Fbln1 | fibulin 1 |
| 10463070 | 3.3820753 down | Entpd1 | ectonucleoside triphosphate diphosphohydrolase 1 |
| 10584674 | 3.3773649 down | Mcam | melanoma cell adhesion molecule |
| 10530633 | 3.3540516 down | Sgcb | sarcoglycan, beta (dystrophin-associated glycoprotein) |
| 10417264 | 3.350411 down | ENSMUSG00000 | predicted gene, ENSMUSG00000063277 LOC100036568 |
| 10500204 | 3.3470173 up | Ecm1 | extracellular matrix protein 1 |
| 10380381 | 3.3429024 up | Tob1 | transducer of ErbB-2.1 |
| 10501104 | 3.341683 down | Slc6a17 | solute carrier family 6 (neurotransmitter transporter), member 17 |
| 10431637 | 3.3390949 up | Cpne8 | copine VIII |
| 10412513 | 3.3363657 down | 1700001E04Rik | RIKEN cDNA 1700001E04 gene |
| 10518346 | 3.3352873 down | RP24-320O9.1 | novel KRAB box containing protein |
| 10563441 | 3.3248818 down | Emp3 | epithelial membrane protein 3 |
| 10365420 | 3.3231921 down | AI597468 | |
| 10471457 | 3.3230119 down | St6galnac4 | ST6-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 |
| 10600453 | 3.3093092 up | lkbkg | inhibitor of kappaB kinase gamma |
| 10544406 | 3.307306 down | 6330503C03Rik | RIKEN cDNA 6330503C03 gene |
| 10546631 | 3.3054984 up | Frmd4b | FERM domain containing 4B |
| 10363350 | 3.300422 down | P4ha1 | procollagen-proline, 2-oxoglutarate 4-dioxygenase, alpha 1 polypeptide |
| 10538658 | 3.298022 up | Herc3 | hect domain and RLD 3 |
| 10380622 | 3.294931 down | Hoxb9 | homeo box B9 |
| 10472953 | 3.2942624 down | Hoxd11 | homeo box D11 |
| 10502081 | 3.2834854 up | Enpep | glutamyl aminopeptidase |
| 10459772 | 3.2832327 down | Lipg | lipase, endothelial |
| 10476935 | 3.2822204 down | OTTMUSG00000015750 | |
| 10581538 | 3.2793717 down | Nqo1 | NAD(P)H dehydrogenase, quinone 1 |
| 10381445 | 3.2715044 down | Tmem106a | transmembrane protein 106A |
| 10576386 | 3.2628763 up | Rhou | ras homolog gene family, member U |
| 10414623 | 3.2534719 down | E130112L23Rik | RIKEN cDNA E130112L23 gene |
| 10512024 | 3.2508857 up | Mobk12b | MOB1, Mps One Binder kinase activator-like 2B (yeast) |
| 10349345 | 3.238771 down | En1 | engrailed 1 |

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|----------|----------------|---------------|--|
| 10540679 | 3.2386544 up | Il17re | interleukin 17 receptor E |
| 10513166 | 3.2275763 up | Ptpn3 | protein tyrosine phosphatase, non-receptor type 3 |
| 10586242 | 3.2233481 down | Dennd4a | DENN/MADD domain containing 4A |
| 10362138 | 3.2220263 up | Vnn1 | vanin 1 |
| 10476795 | 3.218565 up | 4930529M08Rik | RIKEN cDNA 4930529M08 gene similar to 4930529M08Rik protein |
| 10422280 | 3.2026772 up | Abcc4 | ATP-binding cassette, sub-family C (CFTR/MRP), member 4 |
| 10539669 | 3.2018993 up | Add2 | adducin 2 (beta) |
| 10417373 | 3.1936817 down | Hn101 | hematological and neurological expressed 1-like |
| 10574220 | 3.188444 down | Cx3cl1 | chemokine (C-X3-C motif) ligand 1 |
| 10417326 | 3.1722183 down | Hn1l | hematological and neurological expressed 1-like |
| 10582719 | 3.1661022 down | Sipa1l2 | signal-induced proliferation-associated 1 like 2 |
| 10365098 | 3.1629884 down | Tbxa2r | thromboxane A2 receptor |
| 10472396 | 3.145973 down | Scn2a1 | sodium channel, voltage-gated, type II, alpha 1 |
| 10599956 | 3.139809 up | LOC100040304 | similar to syndecan-1 |
| 10390211 | 3.1317878 down | Igf2bp1 | insulin-like growth factor 2 mRNA binding protein 1 |
| 10576973 | 3.1298723 down | Col4a1 | collagen, type IV, alpha 1 |
| 10412909 | 3.1271074 down | Fdft1 | farnesyl diphosphate farnesyl transferase 1 |
| 10566943 | 3.1257105 down | Mrv1 | MRV integration site 1 |
| 10436519 | 3.1188147 down | Robo1 | roundabout homolog 1 (Drosophila) |
| 10417446 | 3.1173081 down | D830030K20Rik | RIKEN cDNA D830030K20 gene |
| 10393887 | 3.114303 down | Pycr1 | pyrroline-5-carboxylate reductase 1 |
| 10558921 | 3.1115148 up | Pnpla2 | patatin-like phospholipase domain containing 2 |
| 10465895 | 3.1113298 down | Fads2 | fatty acid desaturase 2 |
| 10554156 | 3.1111796 down | BC034069 | |
| 10513145 | 3.1023948 up | Ptpn3 | protein tyrosine phosphatase, non-receptor type 3 |
| 10590489 | 3.0882359 down | Zfp105 | zinc finger protein 105 |
| 10417452 | 3.0845604 down | 4930555G01Rik | RIKEN cDNA 4930555G01 gene hypothetical protein LOC100041019 |
| 10404152 | 3.0736363 down | 6330500D04Rik | RIKEN cDNA 6330500D04 gene |
| 10570278 | 3.0704918 up | | |
| 10570483 | 3.0701132 down | Arhgef10 | Rho guanine nucleotide exchange factor (GEF) 10 |
| 10482528 | 3.066808 down | Neb | nebulin |
| 10479182 | 3.0434911 up | RP23-442110.2 | KRAB box and zinc finger, C2H2 type domain containing |
| 10490262 | 3.0434911 up | RP23-442110.2 | KRAB box and zinc finger, C2H2 type domain containing |
| 10490268 | 3.0434833 up | RP23-442110.2 | KRAB box and zinc finger, C2H2 type domain containing |
| 10386916 | 3.0433583 down | BC046404 | |
| 10490265 | 3.0429702 up | RP23-442110.2 | KRAB box and zinc finger, C2H2 type domain containing |
| 10479189 | 3.0424433 up | RP23-442110.2 | KRAB box and zinc finger, C2H2 type domain containing |
| 10490259 | 3.0424433 up | RP23-232H13.5 | KRAB box and zinc finger, C2H2 type domain containing |

Sheet1

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|----------|----------------|---------------|---|
| 10490291 | 3.0424352 up | RP23-442I10.2 | KRAB box and zinc finger, C2H2 type domain containing |
| 10580795 | 3.0310512 down | Ccdc102a | coiled-coil domain containing 102A |
| 10350733 | 3.0245693 down | Rgs16 | regulator of G-protein signaling 16 |
| 10483698 | 3.0190682 down | Wipf1 | WAS/WASL interacting protein family, member 1 |
| 10601412 | 3.017821 down | Lpar4 | lysophosphatidic acid receptor 4 |
| 10496605 | 3.0165117 down | Ccbl2 | cysteine conjugate-beta lyase 2 |
| 10361133 | 3.0154362 down | | |
| 10458555 | 3.0144129 down | Spry4 | sprouty homolog 4 (Drosophila) |
| 10518300 | 3.0133648 up | Tnfrsf1b | tumor necrosis factor receptor superfamily, member 1b |
| 10592719 | 3.0113575 down | Oaf | OAF homolog (Drosophila) |