|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S2: Gene expression profiles in mutant E11.5 RPE fractions**  **Genes upregulated in *Pax6Sey-Neu/Pax6+;Mitfmi-ΔD/Mitfmi-ΔD* as compared to wild type (fold change)** | | | | | | | |
| **Gene name** | **Gene Symbol** | **Gene ID** | ***Pax6Sey-Neu/***  ***Pax6+*** | ***Mitfmi-ΔD/***  ***Mitfmi-ΔD*** | ***Pax6Sey-Neu/***  ***Pax6+;***  ***Mitfmi-ΔD/***  ***Mitfmi-ΔD*** | ***Pax6YAC/YAC; Mitfmi-ΔD/***  ***Mitfmi-ΔD*** | ***Pax6YAC/YAC*** |
| carboxypeptidase A3 (mast cell) | *Cpa3* | 12873 | 1.27 | 1.18 | 5.90 | 1.11 | -1.09 |
| fibroblast growth factor 15 | *Fgf15* | 14170 | 1.06 | -1.04 | 5.17 | 1.01 | 1.16 |
| corticotropin releasing hormone binding protein | *Crhbp* | 12919 | -1.12 | -1.14 | 5.15 | 1.12 | 1.23 |
| aldehyde dehydrogenase 1 family, member A1 | *Aldh1a1* | 11668 | -1.45 | -1.49 | 4.79 | -1.95 | -1.38 |
| myosin, heavy chain 3, skeletal muscle, embryonic | *Myh3* | 17883 | 1.52 | 1.71 | 4.26 | 1.53 | -1.06 |
| collagen, type XIV, alpha 1 | *Col14a1* | 12818 | -1.06 | -1.10 | 4.26 | 1.43 | 1.45 |
| STEAP family member 4 | *Steap4* | 117167 | 1.02 | 1.08 | 3.96 | 1.15 | 1.30 |
| visual system homeobox 2 | *Vsx2* | 12677 | -1.41 | -1.25 | 3.83 | 1.13 | 1.28 |
| carboxypeptidase X (M14 family), member 2 | *Cpxm2* | 55987 | -1.02 | -1.19 | 3.78 | 1.40 | 1.38 |
| retina and anterior neural fold homeobox | *Rax* | 19434 | -1.04 | -1.11 | 3.62 | 1.13 | 1.23 |
| keratocan | *Kera* | 16545 | 1.05 | 1.08 | 3.51 | 1.29 | -1.04 |
| decorin | *Dcn* | 13179 | -1.06 | -1.20 | 3.51 | -1.09 | 1.29 |
| T-box 20 | *Tbx20* | 57246 | 1.04 | -1.12 | 3.26 | 1.11 | -1.07 |
| solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 | *Slc7a11* | 26570 | 1.40 | 2.53 | 3.17 | 1.70 | -1.09 |
| collagen, type I, alpha 1 | *Col1a1* | 12842 | 1.01 | 1.05 | 3.12 | 1.41 | 1.41 |
| WAP four-disulfide core domain 1 | *Wfdc1* | 67866 | -1.14 | -1.14 | 3.10 | -1.29 | -1.29 |
| paired box 6 | *Pax6* | 18508 | 1.63 | 1.07 | 3.03 | 1.24 | 1.04 |
| Zic family member 1 (odd-paired homolog, Drosophila) | *Zic1* | 22771 | 1.63 | 1.10 | 2.93 | 1.30 | 1.14 |
| collagen, type VI, alpha 1 | *Col6a1* | 12833 | 1.06 | 1.12 | 2.83 | 1.28 | 1.27 |
| aquaporin 1 (Colton blood group) | *Aqp1* | 11826 | -1.10 | -1.03 | 2.71 | 1.10 | 1.12 |
| actin, alpha, cardiac muscle 1 | *Actc1* | 11464 | 1.33 | 1.81 | 2.71 | 1.54 | -1.11 |
| SPARC related modular calcium binding 2 | *Smoc2* | 64074 | -1.03 | 1.04 | 2.62 | 1.07 | -1.01 |
| claudin 1 | *Cldn1* | 12737 | -1.27 | -1.19 | 2.61 | -1.02 | -1.03 |
| dickkopf homolog 3 (Xenopus laevis) | *Dkk3* | 50781 | -1.15 | -1.08 | 2.60 | 1.25 | 1.19 |
| T-box 22 | *Tbx22* | 245572 | 1.02 | 1.48 | 2.49 | 1.59 | 1.07 |
| ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 | *St8sia1* | 20449 | 1.08 | -1.09 | 2.49 | 1.10 | 1.03 |
| SIX homeobox 6 | *Six6* | 20476 | -1.12 | 1.00 | 2.44 | 1.57 | 1.38 |
| collagen, type VI, alpha 3 | *Col6a3* | 12835 | -1.05 | 1.06 | 2.40 | 1.44 | 1.22 |
| myosin, light chain 4, alkali; atrial, embryonic | *Myl4* | 17896 | 1.44 | 1.37 | 2.34 | 1.44 | 1.10 |
| Zic family member 5 (odd-paired homolog, Drosophila) | *Zic5* | 65100 | 1.40 | 1.10 | 2.34 | 1.52 | 1.25 |
| keratin 5 | *Krt5* | 110308 | -1.02 | 1.02 | 2.27 | -1.15 | -1.10 |
| RAS-like, estrogen-regulated, growth inhibitor | *Rerg* | 232441 | 1.07 | 1.20 | 2.26 | 1.21 | 1.15 |
| biglycan | *Bgn* | 12111 | 1.08 | 1.07 | 2.25 | 1.21 | 1.15 |
| troponin C type 1 (slow) | *Tnnc1* | 21924 | 1.27 | 1.25 | 2.24 | 1.43 | 1.12 |
| annexin A1 | *Anxa1* | 16952 | -1.09 | 1.03 | 2.21 | -1.47 | -1.53 |
| cathepsin K | *Ctsk* | 13038 | 1.06 | -1.14 | 2.20 | 1.10 | 1.07 |
| thrombospondin 2 | *Thbs2* | 21826 | -1.08 | -1.17 | 2.18 | -1.19 | -1.14 |
| titin | *Ttn* | 22138 | 1.19 | 1.55 | 2.16 | 1.32 | -1.12 |
| aldehyde dehydrogenase 1 family, member A2 | *Aldh1a2* | 19378 | -1.03 | 1.14 | 2.14 | 1.34 | 1.22 |
| collagen, type XII, alpha 1 | *Col12a1* | 12816 | 1.08 | -1.05 | 2.13 | -1.12 | -1.03 |
| Zic family member 2 (odd-paired homolog, Drosophila) | *Zic2* | 22772 | 1.31 | 1.03 | 2.10 | 1.62 | 1.34 |
| leucine rich repeat containing 17 | *Lrrc17* | 74511 | -1.14 | 1.01 | 2.10 | 1.28 | 1.16 |
| collagen, type V, alpha 2 | *Col5a2* | 12832 | -1.02 | 1.07 | 2.09 | 1.16 | 1.27 |
| RAR-related orphan receptor B | *Rorb* | 225998 | -1.24 | -1.07 | 2.07 | 1.14 | 1.14 |
| collagen, type VI, alpha 2 | *Col6a2* | 12834 | -1.02 | 1.01 | 2.05 | 1.29 | 1.23 |
| matrilin 4 | *Matn4* | 17183 | -1.02 | -1.01 | 2.05 | -1.01 | 1.04 |
| mab-21-like 2 (C. elegans) | *Mab21l2* | 23937 | 1.14 | 1.22 | 2.04 | 1.31 | -1.01 |
| desmocollin 3 | *Dsc3* | 13507 | 1.18 | -1.07 | 2.04 | -1.10 | -1.09 |
| CD44 molecule (Indian blood group) | *Cd44* | 12505 | 1.10 | 1.12 | 2.04 | 1.16 | -1.00 |
| leucine rich repeat neuronal 1 | *Lrrn1* | 16979 | 1.25 | 1.20 | 2.03 | 1.26 | -1.14 |
| integral membrane protein 2A | *Itm2a* | 16431 | -1.07 | 1.09 | 2.01 | 1.22 | 1.12 |
| SRY (sex determining region Y)-box 2 | *Sox2* | 20674 | 1.32 | -1.05 | 1.97 | -1.05 | 1.03 |
| EGF-like-domain, multiple 6 | *Egfl6* | 54156 | -1.15 | -1.05 | 1.97 | 1.25 | 1.19 |
| C1q and tumor necrosis factor related protein 7 | *C1qtnf7* | 109323 | 1.11 | 1.21 | 1.96 | 1.43 | 1.33 |
| keratin 15 | *Krt15* | 16665 | 1.03 | -1.13 | 1.96 | 1.20 | 1.18 |
| Cdon homolog (mouse) | *Cdon* | 57810 | -1.02 | 1.02 | 1.94 | 1.04 | 1.04 |
| lysyl oxidase | *Lox* | 16948 | 1.05 | 1.01 | 1.92 | 1.00 | -1.13 |
| sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C | *Sema3c* | 20348 | 1.16 | -1.04 | 1.92 | 1.06 | 1.07 |
| glycine dehydrogenase (decarboxylating) | *Gldc* | 104174 | 1.12 | -1.12 | 1.91 | -1.07 | -1.18 |
| collagen, type III, alpha 1 | *Col3a1* | 12825 | -1.02 | 1.08 | 1.89 | 1.19 | 1.08 |
| DNA-damage-inducible transcript 4-like | *Ddit4l* | 73284 | 1.11 | 1.00 | 1.89 | 1.10 | 1.11 |
| ets variant 1 | *Etv1* | 14009 | -1.05 | 1.14 | 1.87 | 1.07 | -1.05 |
| PDZ and LIM domain 3 | *Pdlim3* | 53318 | -1.04 | 1.26 | 1.85 | 1.35 | 1.07 |
| filamin C, gamma (actin binding protein 280) | *Flnc* | 68794 | 1.03 | 1.19 | 1.84 | 1.36 | 1.11 |
| KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3 | *Kdelr3* | 105785 | 1.00 | -1.08 | 1.83 | -1.17 | -1.13 |
| fibulin 5 | *Fbln5* | 23876 | 1.06 | 1.14 | 1.83 | 1.09 | 1.03 |
| nuclear factor I/X (CCAAT-binding transcription factor) | *Nfix* | 18032 | -1.02 | 1.08 | 1.83 | 1.16 | -1.02 |
| keratin 19 | *Krt19* | 16669 | -1.03 | -1.19 | 1.82 | -1.06 | -1.03 |
| latent transforming growth factor beta binding protein 1 | *Ltbp1* | 268977 | -1.09 | -1.01 | 1.82 | 1.35 | 1.16 |
| protease, serine, 35 | *Prss35* | 244954 | -1.10 | -1.01 | 1.82 | 1.27 | 1.04 |
| actin, alpha 1, skeletal muscle | *Acta1* | 11459 | 1.35 | 1.30 | 1.81 | 1.49 | 1.22 |
| integrin, beta 8 | *Itgb8* | 320910 | 1.18 | 1.06 | 1.80 | 1.03 | 1.04 |
| small nucleolar RNA, C/D box 22 | *Snord22* | 100127111 | -1.22 | 1.20 | 1.79 | 1.47 | 1.10 |
| v-myb myeloblastosis viral oncogene homolog (avian) | *Myb* | 17863 | -1.17 | -1.01 | 1.78 | -1.02 | -1.01 |
| ADAM metallopeptidase with thrombospondin type 1 motif, 9 | *Adamts9* | 101401 | -1.01 | 1.07 | 1.78 | 1.15 | 1.01 |
| growth hormone receptor | *Ghr* | 14600 | 1.02 | 1.02 | 1.77 | 1.04 | -1.03 |
| collagen, type I, alpha 2 | *Col1a2* | 12843 | 1.01 | 1.05 | 1.75 | 1.23 | 1.15 |
| ADAM metallopeptidase with thrombospondin type 1 motif, 9 | *Adamts9* | 101401 | -1.04 | 1.05 | 1.75 | 1.14 | 1.01 |
| cAMP responsive element binding protein 3-like 1 | *Creb3l1* | 26427 | -1.02 | -1.01 | 1.75 | 1.04 | 1.01 |
| dickkopf homolog 1 (Xenopus laevis) | *Dkk1* | 13380 | 1.07 | 1.22 | 1.74 | 2.31 | 1.57 |
| nuclear factor I/B | *Nfib* | 18028 | 1.08 | 1.15 | 1.72 | 1.17 | 1.06 |
| hyperpolarization activated cyclic nucleotide-gated potassium channel 1 | *Hcn1* | 15165 | -1.07 | 1.43 | 1.72 | 2.83 | 2.15 |
| ras homolog gene family, member J | *Rhoj* | 80837 | -1.01 | -1.02 | 1.72 | 1.00 | -1.03 |
| actinin, alpha 2 | *Actn2* | 11472 | 1.17 | 1.12 | 1.70 | 1.15 | -1.11 |
| troponin I type 1 (skeletal, slow) | *Tnni1* | 21952 | 1.29 | 1.30 | 1.70 | 1.34 | 1.11 |
| scleraxis homolog B (mouse) | *Scxb* | 20289 | 1.07 | 1.03 | 1.70 | 1.14 | 1.08 |
| periostin, osteoblast specific factor | *Postn* | 50706 | 1.23 | 1.16 | 1.69 | -1.62 | -1.82 |
| N-terminal EF-hand calcium binding protein 2 | *Necab2* | 117148 | -1.02 | -1.01 | 1.69 | 1.18 | 1.09 |
| mannose receptor, C type 1 | *Mrc1* | 17533 | -1.05 | -1.14 | 1.69 | 1.06 | 1.07 |
| Nik related kinase | *Nrk* | 27206 | 1.03 | 1.22 | 1.68 | 1.19 | -1.02 |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1 | *Galntl1* | 108760 | 1.02 | -1.02 | 1.67 | 1.04 | -1.03 |
| poliovirus receptor-related 3 | *Pvrl3* | 58998 | 1.05 | 1.13 | 1.67 | 1.10 | 1.06 |
| epithelial membrane protein 1 | *Emp1* | 13730 | 1.01 | 1.02 | 1.66 | 1.31 | 1.16 |
| echinoderm microtubule associated protein like 5 | *Eml5* | 319670 | -1.12 | -1.04 | 1.66 | 1.30 | 1.20 |
| pleiotrophin | *Ptn* | 19242 | 1.29 | 1.13 | 1.66 | 1.11 | 1.14 |
| plexin C1 | *Plxnc1* | 54712 | 1.08 | -1.11 | 1.65 | 1.14 | 1.13 |
| tenascin C | *Tnc* | 21923 | -1.16 | 1.14 | 1.65 | 1.10 | -1.04 |
| creatine kinase, brain | *Ckb* | 12709 | 1.56 | -1.07 | 1.64 | 1.13 | 1.08 |
| HtrA serine peptidase 1 | *Htra1* | 56213 | 1.14 | -1.22 | 1.63 | -1.11 | -1.12 |
| hypermethylated in cancer 1 | *Hic1* | 15248 | 1.02 | 1.05 | 1.62 | 1.29 | 1.17 |
| collagen, type IX, alpha 1 | *Col9a1* | 12839 | -1.00 | 1.02 | 1.61 | 1.16 | 1.03 |
| ets variant 1 | *Etv1* | 14009 | -1.06 | 1.14 | 1.61 | 1.03 | -1.09 |
| anoctamin 1, calcium activated chloride channel | *Ano1* | 101772 | -1.00 | -1.21 | 1.61 | -1.78 | -1.54 |
| SH3 domain binding glutamic acid-rich protein like 2 | *Sh3bgrl2* | 212531 | 1.02 | 1.07 | 1.61 | 1.22 | 1.17 |
| ADAM metallopeptidase with thrombospondin type 1 motif, 9 | *Adamts9* | 101401 | -1.05 | 1.04 | 1.60 | 1.11 | -1.02 |
| elastin | *Eln* | 13717 | 1.03 | 1.09 | 1.60 | 1.05 | -1.10 |
| angiopoietin-like 1 | *Angptl1* | 72713 | -1.03 | 1.14 | 1.60 | -1.00 | -1.05 |
| myosin, light polypeptide 9, regulatory | *Myl9* | 98932 | 1.05 | 1.11 | 1.59 | -1.01 | 1.05 |
| nuclear factor I/B | *Nfib* | 18028 | 1.00 | 1.06 | 1.59 | 1.03 | -1.02 |
| angiotensin II receptor, type 2 | *Agtr2* | 11609 | 1.06 | -1.12 | 1.59 | -1.14 | -1.22 |
| collagen, type XVII, alpha 1 | *Col17a1* | 12821 | -1.01 | 1.06 | 1.58 | 1.30 | 1.28 |
| CUG triplet repeat, RNA binding protein 2 | *Cugbp2* | 14007 | 1.18 | 1.05 | 1.58 | 1.15 | 1.03 |
| flavin containing monooxygenase 1 | *Fmo1* | 14261 | 1.01 | -1.11 | 1.58 | 1.04 | 1.04 |
| lymphocyte-specific protein 1 | *Lsp1* | 16985 | 1.07 | 1.14 | 1.58 | 1.19 | 1.19 |
| Rho GTPase activating protein 24 | *Arhgap24* | 231532 | -1.00 | 1.09 | 1.58 | 1.12 | 1.09 |
| Meis homeobox 1 | *Meis1* | 17268 | 1.07 | 1.06 | 1.57 | 1.38 | 1.20 |
| nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) | *Nr3c1* | 14815 | -1.04 | -1.14 | 1.57 | 1.00 | -1.00 |
| IQ motif containing GTPase activating protein 2 | *Iqgap2* | 544963 | 1.00 | -1.07 | 1.57 | -1.17 | -1.02 |
| solute carrier family 40 (iron-regulated transporter), member 1 | *Slc40a1* | 53945 | 1.13 | 1.11 | 1.57 | 1.08 | 1.12 |
| collagen, type V, alpha 1 | *Col5a1* | 12831 | -1.00 | -1.00 | 1.57 | 1.17 | 1.10 |
| delta-like 1 homolog (Drosophila) | *Dlk1* | 13386 | -1.16 | 1.10 | 1.57 | 1.14 | 1.11 |
| ecotropic viral integration site 1 | *Evi1* | 14013 | -1.20 | -1.10 | 1.56 | 1.05 | -1.03 |
| cysteine dioxygenase, type I | *Cdo1* | 12583 | 1.05 | 1.10 | 1.55 | 1.23 | 1.23 |
| protein phosphatase 1, regulatory (inhibitor) subunit 12B | *Ppp1r12b* | 329251 | 1.11 | 1.07 | 1.55 | 1.36 | 1.34 |
| protease, serine, 12 (neurotrypsin, motopsin) | *Prss12* | 19142 | 1.02 | 1.09 | 1.55 | 1.11 | 1.03 |
| frizzled homolog 5 (Drosophila) | *Fzd5* | 14367 | -1.09 | -1.09 | 1.55 | 1.11 | 1.04 |
| catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) | *Ctnnd2* | 18163 | -1.16 | -1.06 | 1.55 | 1.35 | 1.23 |
| mesenchyme homeobox 1 | *Meox1* | 17285 | -1.08 | 1.17 | 1.54 | 1.06 | 1.02 |
| glypican 4 | *Gpc4* | 14735 | 1.01 | 1.07 | 1.54 | 1.02 | 1.00 |
| glycine amidinotransferase (L-arginine:glycine amidinotransferase) | *Gatm* | 67092 | 1.15 | 1.10 | 1.52 | 1.03 | 1.23 |
| slit homolog 2 (Drosophila) | *Slit2* | 20563 | 1.10 | 1.04 | 1.51 | 1.39 | 1.24 |
| secernin 1 | *Scrn1* | 69938 | 1.21 | 1.22 | 1.51 | 1.34 | 1.25 |
| T-box 3 | *Tbx3* | 21386 | 1.01 | 1.03 | 1.51 | 1.04 | 1.04 |
| synaptotagmin XI | *Syt11* | 229521 | 1.25 | -1.13 | 1.51 | 1.04 | -1.03 |
| calcium channel, voltage-dependent, L type, alpha 1D subunit | *Cacna1d* | 12289 | -1.17 | -1.11 | 1.51 | -1.03 | -1.05 |
| unc-13 homolog B (C. elegans) | *Unc13b* | 22249 | 1.15 | 1.10 | 1.51 | 1.22 | 1.15 |
| mab-21-like 1 (C. elegans) | *Mab21l1* | 17116 | 1.04 | -1.10 | 1.50 | -1.02 | -1.11 |
| transcription factor EC | *Tfec* | 21426 | -1.15 | 1.87 | 1.49 | 2.64 | 1.71 |
| V-set and transmembrane domain containing 2A | *Vstm2a* | 211739 | 1.15 | 1.82 | 1.49 | 3.28 | 2.05 |
| lymphocyte antigen 86 | *Ly86* | 17084 | 1.13 | -1.04 | 1.49 | -1.20 | -1.07 |
| protocadherin 7 | *Pcdh7* | 54216 | -1.02 | 1.03 | 1.49 | 1.02 | 1.01 |
| sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 | *Svep1* | 64817 | -1.04 | 1.05 | 1.49 | 1.04 | -1.05 |
| phosphodiesterase 7B | *Pde7b* | 29863 | -1.02 | 1.08 | 1.49 | 1.13 | 1.12 |
| cadherin 4, type 1, R-cadherin (retinal) | *Cdh4* | 12561 | -1.05 | -1.09 | 1.49 | 1.34 | 1.30 |
| ankyrin 2, neuronal | *Ank2* | 109676 | 1.07 | -1.03 | 1.49 | 1.04 | -1.01 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Genes downregulated in *Pax6Sey-Neu/Pax6+;Mitfmi-ΔD/Mitfmi-ΔD* as compared to wild type (fold change)** | | | | | | | |
| **Gene name** | **Gene Symbol** | **Gene ID** | ***Pax6Sey-Neu/***  ***Pax6+*** | ***Mitf mi-ΔD/***  ***Mitf mi-ΔD*** | ***Pax6Sey-Neu/***  ***Pax6+;***  ***Mitf mi-ΔD/***  ***Mitf mi-ΔD*** | ***Pax6YAC/YAC; Mitf mi-ΔD/***  ***Mitf mi-ΔD*** | ***Pax6YAC/YAC*** |
| glycoprotein (transmembrane) nmb | *Gpnmb* | 93695 | -1.33 | -1.87 | -2.98 | -1.35 | 1.32 |
| G protein-coupled receptor 143 | *Gpr143* | 18241 | -1.19 | -2.32 | -2.97 | -2.58 | -1.00 |
| S100 calcium binding protein A1 | *S100a1* | 20193 | -1.12 | -1.72 | -2.47 | -2.16 | 1.16 |
| beta-site APP-cleaving enzyme 2 | *Bace2* | 56175 | -1.13 | -1.85 | -2.34 | -1.96 | 1.06 |
| crystallin, alpha A | *Cryaa* | 12954 | -2.79 | -2.15 | -2.32 | -1.89 | -1.17 |
| pro-platelet basic protein (chemokine (C-X-C motif) ligand 7) | *Ppbp* | 57349 | -1.03 | -1.27 | -2.21 | -1.56 | -1.76 |
| retinaldehyde binding protein 1 | *Rlbp1* | 19771 | -1.00 | -1.67 | -2.16 | -2.06 | -1.24 |
| solute carrier family 45, member 2 | *Slc45a2* | 22293 | -1.22 | -1.40 | -2.02 | -1.67 | -1.11 |
| solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 | *Slc11a1* | 18173 | -1.15 | -1.54 | -2.02 | -1.28 | 1.10 |
| hemoglobin, zeta | *Hbz* | 15126 | -1.17 | -1.08 | -1.96 | -1.18 | -1.03 |
| solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group) | *Slc4a1* | 20533 | -1.20 | -1.06 | -1.91 | -1.33 | -1.21 |
| monoglyceride lipase | *Mgll* | 23945 | -1.12 | -1.39 | -1.90 | -1.43 | 1.15 |
| hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 | *Hsd3b1* | 15492 | 1.10 | -1.13 | -1.86 | -1.03 | -1.04 |
| optineurin | *Optn* | 71648 | -1.11 | -1.56 | -1.84 | -1.67 | 1.01 |
| tyrosinase-related protein 1 | *Tyrp1* | 22178 | -1.04 | -1.48 | -1.82 | -1.51 | 1.10 |
| RAB27A, member RAS oncogene family | *Rab27a* | 11891 | -1.12 | -1.40 | -1.81 | -1.09 | 1.28 |
| melan-A | *Mlana* | 77836 | -1.11 | -1.79 | -1.72 | -1.57 | 1.30 |
| transthyretin | *Ttr* | 22139 | 1.55 | -2.85 | -1.72 | -2.97 | -2.87 |
| silver homolog (mouse) | *Silv* | 20431 | -1.03 | -1.31 | -1.70 | -1.25 | 1.06 |
| guanosine monophosphate reductase | *Gmpr* | 66355 | -1.05 | -1.39 | -1.69 | -1.32 | 1.03 |
| synaptotagmin-like 2 | *Sytl2* | 83671 | 1.00 | -1.52 | -1.69 | -2.30 | -1.59 |
| Dmx-like 2 | *Dmxl2* | 235380 | -1.10 | -1.38 | -1.68 | -1.51 | -1.08 |
| platelet factor 4 | *Pf4* | 56744 | -1.14 | -1.42 | -1.68 | -1.62 | -1.55 |
| carbonic anhydrase II | *Ca2* | 12349 | -1.10 | 1.01 | -1.67 | -1.30 | -1.29 |
| junctophilin 1 | *Jph1* | 57339 | -1.18 | -1.16 | -1.67 | -1.48 | -1.34 |
| solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 | *Slc7a8* | 50934 | -1.21 | -1.39 | -1.66 | -1.73 | 1.13 |
| tetraspanin 10 | *Tspan10* | 208634 | -1.11 | -1.42 | -1.65 | -1.17 | 1.12 |
| epoxide hydrolase 1, microsomal (xenobiotic) | *Ephx1* | 13849 | -1.02 | -1.51 | -1.63 | -2.33 | -1.32 |
| tyrosinase (oculocutaneous albinism IA) | *Tyr* | 22173 | -1.04 | -1.20 | -1.62 | -1.55 | 1.02 |
| complement component 1, q subcomponent-like 3 | *C1ql3* | 227580 | 1.10 | -1.32 | -1.61 | -2.41 | -1.55 |
| retinol dehydrogenase 5 (11-cis/9-cis) | *Rdh5* | 19682 | 1.06 | -1.32 | -1.61 | -1.64 | -1.25 |
| SRY (sex determining region Y)-box 9 | *Sox9* | 20682 | 1.03 | -1.12 | -1.60 | -1.57 | -1.38 |
| forkhead box F2 | *Foxf2* | 14238 | -1.00 | -1.21 | -1.60 | -2.03 | -1.51 |
| SIX homeobox 2 | *Six2* | 20472 | -1.16 | 1.04 | -1.60 | -1.29 | -1.14 |
| solute carrier family 24, member 5 | *Slc24a5* | 317750 | -1.05 | -1.50 | -1.59 | -1.75 | -1.07 |
| Dmx-like 2 | *Dmxl2* | 235380 | -1.05 | -1.30 | -1.58 | -1.48 | -1.06 |
| zinc finger, DHHC-type containing 2 | *Zdhhc2* | 70546 | -1.00 | -1.25 | -1.58 | -1.24 | 1.07 |
| vitrin | *Vit* | 74199 | 1.07 | -1.27 | -1.58 | -2.35 | -2.07 |
| forkhead box C2 (MFH-1, mesenchyme forkhead 1) | *Foxc2* | 14234 | -1.09 | -1.06 | -1.57 | -1.31 | -1.16 |
| forkhead box L1 | *Foxl1* | 14241 | -1.10 | -1.09 | -1.57 | -1.41 | -1.29 |
| phospholipid transfer protein | *Pltp* | 18830 | -1.13 | -1.33 | -1.56 | -1.33 | -1.08 |
| dipeptidyl-peptidase 4 | *Dpp4* | 13482 | -1.19 | -1.44 | -1.56 | -1.90 | -1.16 |
| acid phosphatase 5, tartrate resistant | *Acp5* | 11433 | -1.10 | -1.08 | -1.54 | -1.26 | -1.21 |
| oculocutaneous albinism II | *Oca2* | 18431 | -1.08 | -1.14 | -1.54 | -1.49 | -1.23 |
| UDP-N-acteylglucosamine pyrophosphorylase 1-like 1 | *Uap1l1* | 227620 | -1.06 | -1.28 | -1.54 | -1.07 | 1.03 |
| basic helix-loop-helix domain containing, class B, 3 | *Bhlhb3* | 79362 | -1.07 | -1.20 | -1.53 | -1.42 | -1.04 |
| guanylate cyclase activator 1B (retina) | *Guca1b* | 107477 | -1.11 | -1.15 | -1.52 | -1.24 | -1.61 |
| EPH receptor A3 | *Epha3* | 13837 | -1.04 | 1.02 | -1.52 | -1.22 | -1.11 |
| indolethylamine N-methyltransferase | *Inmt* | 21743 | 1.13 | -1.42 | -1.52 | -2.16 | -1.89 |
| glioma-associated oncogene homolog 1 (zinc finger protein) | *Gli1* | 14632 | -1.13 | -1.18 | -1.51 | -1.74 | -1.48 |
| hyaluronan synthase 2 | *Has2* | 15117 | -1.05 | 1.00 | -1.51 | -1.48 | -1.41 |
| protein kinase C, theta | *Prkcq* | 18761 | -1.05 | -1.33 | -1.50 | -1.45 | -1.09 |
| syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1) | *Sntb1* | 20649 | -1.13 | -1.29 | -1.50 | -1.17 | 1.02 |
| crystallin, mu | *Crym* | 12971 | 1.06 | -1.03 | -1.47 | -1.44 | -1.62 |
| hyaluronan and proteoglycan link protein 1 | *Hapln1* | 12950 | -1.12 | -1.07 | -1.47 | 1.03 | 1.15 |
| keratin 18 | *Krt18* | 16668 | 1.04 | -1.25 | -1.47 | -1.41 | -1.22 |
| microphthalmia-associated transcription factor | *Mitf* | 17342 | -1.03 | -1.31 | -1.43 | -1.19 | 1.13 |