

Dataset S 3A: Differential expression between congenic *Tgfbm2/3* and NIH mice after OVA exposure

| Probe ID | GeneName | GeneDescription | logFC | AveExpr | t | P.Value | adj.P.Val | NumExpectedFalse | B |
|-----------------|---------------|--|-----------------|----------------|----------------|--------------------|-----------------|------------------|-----------------|
| 10362424 | Trdn | triadin | 1.34718 | 5.9578 | 10.0458 | 1.65E-07 | 0.00422343 | 0.00422343 | -1.04007 |
| 10479975 | NA | NA | 1.29194 | 7.92893 | 8.18989 | 1.68E-06 | 0.0215638 | 0.0431277 | -1.31758 |
| 10478523 | NA | NA | 0.951301 | 7.03248 | 6.6663 | 1.52E-05 | 0.129789 | 0.389367 | -1.66939 |
| 10358597 | Hmcn1 | hemicentin 1 | -0.650418 | 7.65368 | -5.80577 | 6.02E-05 | 0.276885 | 1.10754 | -1.94281 |
| 10593191 | NA | NA | 0.798801 | 4.985 | 5.80283 | 6.05E-05 | 0.276885 | 1.38442 | -1.94386 |
| 10545239 | NA | NA | 0.662417 | 6.26493 | 5.76191 | 6.47E-05 | 0.276885 | 1.66131 | -1.95855 |
| 10402981 | Gm900 | predicted gene 900 | -0.608185 | 6.9832 | -5.2156 | 0.000164278 | 0.507906 | 3.55534 | -2.17118 |
| 10600031 | 2610030H06Rik | RIKEN cDNA 2610030H06 gene | 0.560373 | 5.97907 | 5.13359 | 0.000189601 | 0.507906 | 4.06324 | -2.20588 |
| 10545220 | Igk | immunoglobulin kappa chain complex | -0.78989 | 5.97085 | -5.112 | 0.000196923 | 0.507906 | 4.57115 | -2.21514 |
| 10470318 | NA | NA | 1.18437 | 6.55678 | 5.10926 | 0.000197875 | 0.507906 | 5.07906 | -2.21632 |
| 10516211 | Ndufs5 | NADH dehydrogenase (ubiquinone) Fe-S protein 5 | -0.552032 | 7.24281 | -4.89968 | 0.000286806 | 0.632071 | 6.95278 | -2.3091 |
| 10462623 | Ifit1 | interferon-induced protein with tetratricopeptide repeats 1 | 0.520966 | 8.18334 | 4.87334 | 0.000300624 | 0.632071 | 7.58485 | -2.32112 |
| 10392096 | NA | NA | -0.572155 | 7.82419 | -4.83824 | 0.000320123 | 0.632071 | 8.21692 | -2.33727 |
| 10473483 | Olfr1029 | olfactory receptor 1029 | 0.528364 | 5.13583 | 4.58362 | 0.000507403 | 0.859325 | 12.0305 | -2.45888 |
| 10423894 | Tm7sf4 | transmembrane 7 superfamily member 4 | 0.52594 | 6.32793 | 4.48311 | 0.000609915 | 0.859325 | 12.8899 | -2.50907 |
| 10530465 | NA | NA | -0.867224 | 3.8017 | -4.46676 | 0.000628518 | 0.859325 | 13.7492 | -2.51735 |
| 10489909 | Ube2v1 | ubiquitin-conjugating enzyme E2 variant 1 | 0.446901 | 6.15296 | 4.4647 | 0.000630912 | 0.859325 | 14.6085 | -2.5184 |
| 10353674 | Lsm5 | LSM5 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>) | -0.588147 | 6.25086 | -4.45191 | 0.000645924 | 0.859325 | 15.4678 | -2.5249 |
| 10493856 | Sprr2a | small proline-rich protein 2A | 0.551714 | 8.77149 | 4.43239 | 0.000669569 | 0.859325 | 16.3272 | -2.53487 |
| 10493858 | Sprr2a | small proline-rich protein 2A | 0.551714 | 8.77149 | 4.43239 | 0.000669569 | 0.859325 | 17.1865 | -2.53487 |
| 10548345 | Klrk1 | killer cell lectin-like receptor subfamily K, member 1 | 0.517037 | 5.93176 | 4.26385 | 0.000914875 | 0.999875 | 20.9974 | -2.62293 |
| 10520452 | Il6 | interleukin 6 | 0.670605 | 5.71303 | 4.25289 | 0.000933724 | 0.999875 | 21.9972 | -2.62877 |
| 10516037 | Gm12888 | predicted gene 12888 | 0.431671 | 5.12706 | 4.23106 | 0.000972501 | 0.999875 | 22.9971 | -2.64047 |
| 10423738 | NA | NA | 0.475707 | 4.95353 | 4.22821 | 0.000977683 | 0.999875 | 23.997 | -2.642 |
| 10521964 | Gm10440 | predicted gene 10440 | 0.469473 | 7.24226 | 4.17577 | 0.00107829 | 0.999875 | 24.9969 | -2.67036 |
| 10346067 | NA | NA | 0.608627 | 4.40463 | 4.16088 | 0.00110874 | 0.999875 | 25.9967 | -2.67847 |
| 10403036 | Igh | immunoglobulin heavy chain complex | 1.85249 | 5.42879 | 4.13689 | 0.00115971 | 0.999875 | 26.9966 | -2.69161 |
| 10586814 | NA | NA | 0.493698 | 4.94315 | 4.12679 | 0.00118188 | 0.999875 | 27.9965 | -2.69716 |
| 10360367 | Gm4955 | predicted gene 4955 | 0.565674 | 6.00916 | 4.10076 | 0.00124106 | 0.999875 | 28.9964 | -2.71153 |
| 10591127 | Fat3 | FAT tumor suppressor homolog 3 (<i>Drosophila</i>) | -0.491685 | 6.70898 | -4.07706 | 0.00129757 | 0.999875 | 29.9962 | -2.72468 |
| 10559043 | Muc5ac | mucin 5, subtypes A and C, tracheobronchial/gastric | 0.445971 | 7.43266 | 4.01528 | 0.00145765 | 0.999875 | 30.9961 | -2.7593 |
| 10415431 | Mcpt1 | mast cell protease 1 | 0.57089 | 5.75791 | 4.00998 | 0.00147229 | 0.999875 | 31.996 | -2.76229 |
| 10373620 | Olfr772 | olfactory receptor 772 | 0.515802 | 4.22988 | 3.99219 | 0.00152256 | 0.999875 | 32.9959 | -2.77236 |
| 10595145 | Gm8074 | predicted gene 8074 | 0.50406 | 6.18973 | 3.94099 | 0.00167728 | 0.999875 | 33.9957 | -2.80155 |

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|----------|---------------|---|-----------|---------|----------|------------|----------|---------|----------|
| 10606184 | NA | NA | 0.451705 | 3.97197 | 3.92434 | 0.00173101 | 0.999875 | 34.9956 | -2.81112 |
| 10523138 | Cxcl3 | chemokine (C-X-C motif) ligand 3 | 0.47337 | 7.0682 | 3.91643 | 0.00175712 | 0.999875 | 35.9955 | -2.81567 |
| 10474223 | Cd59b | CD59b antigen | 0.527244 | 5.66321 | 3.88812 | 0.001854 | 0.999875 | 36.9954 | -2.83204 |
| 10395365 | Agr2 | anterior gradient 2 (<i>Xenopus laevis</i>) | 0.763215 | 7.91965 | 3.86815 | 0.00192563 | 0.999875 | 37.9952 | -2.84365 |
| 10538636 | V1rc2 | vomeroneasal 1 receptor, C2 | 0.423502 | 5.05432 | 3.86015 | 0.00195509 | 0.999875 | 38.9951 | -2.84831 |
| 10563597 | Saa3 | serum amyloid A 3 | 0.576491 | 7.10313 | 3.83264 | 0.00206 | 0.999875 | 39.995 | -2.86441 |
| 10508972 | Gm5589 | predicted gene 5589 | -0.456591 | 6.66161 | -3.82862 | 0.00207584 | 0.999875 | 40.9949 | -2.86677 |
| 10477475 | Plunc | palate, lung, and nasal epithelium associated | 1.23204 | 7.69735 | 3.8155 | 0.00212828 | 0.999875 | 41.9947 | -2.87449 |
| 10559580 | Syt5 | synaptotagmin V | 0.426426 | 6.8363 | 3.81065 | 0.00214801 | 0.999875 | 42.9946 | -2.87734 |
| 10537296 | NA | NA | -0.461023 | 5.93981 | -3.79211 | 0.00222518 | 0.999875 | 43.9945 | -2.88829 |
| 10475517 | AA467197 | expressed sequence AA467197 | 0.402496 | 6.1999 | 3.7853 | 0.0022542 | 0.999875 | 44.9944 | -2.89232 |
| 10544286 | Moxd2 | monooxygenase, DBH-like 2 | 0.429608 | 5.56462 | 3.76609 | 0.00233824 | 0.999875 | 45.9942 | -2.90373 |
| 10432810 | Krt74 | keratin 74 | -0.414302 | 5.70334 | -3.7548 | 0.00238914 | 0.999875 | 46.9941 | -2.91045 |
| 10395374 | Gm5434 | ubiquitin-conjugating enzyme E2F (putative) pseudogene | 0.543584 | 5.1903 | 3.74654 | 0.00242707 | 0.999875 | 47.994 | -2.91538 |
| 10544687 | Cycc | cytochrome c, somatic | 0.566465 | 6.05379 | 3.7345 | 0.00248348 | 0.999875 | 48.9939 | -2.92258 |
| 10594798 | NA | NA | -0.468331 | 5.30487 | -3.72245 | 0.00254125 | 0.999875 | 49.9937 | -2.9298 |
| 10376404 | Olfr320 | olfactory receptor 320 | 0.41696 | 7.89181 | 3.7088 | 0.00260836 | 0.999875 | 50.9936 | -2.93801 |
| 10441392 | Cldn20 | claudin 20 | -0.399303 | 7.45532 | -3.70297 | 0.00263755 | 0.999875 | 51.9935 | -2.94151 |
| 10384797 | Ccdc85a | coiled-coil domain containing 85A | -0.423279 | 8.59158 | -3.70123 | 0.00264635 | 0.999875 | 52.9934 | -2.94256 |
| 10390080 | Tmem92 | transmembrane protein 92 | 0.437062 | 4.98923 | 3.68325 | 0.00273885 | 0.999875 | 53.9932 | -2.95342 |
| 10513583 | Cdc26 | cell division cycle 26 | -0.40639 | 6.84677 | -3.6536 | 0.00289865 | 0.999875 | 54.9931 | -2.9714 |
| 10382523 | 4933422H20Rik | RIKEN cDNA 4933422H20 gene | 0.391161 | 6.13608 | 3.64936 | 0.00292229 | 0.999875 | 55.993 | -2.97398 |
| 10472050 | Tnfaip6 | tumor necrosis factor alpha induced protein 6 | 0.409959 | 6.12863 | 3.6447 | 0.00294847 | 0.999875 | 56.9929 | -2.97682 |
| 10507777 | 9530002B09Rik | RIKEN cDNA 9530002B09 gene | 0.380831 | 5.54145 | 3.64342 | 0.00295568 | 0.999875 | 57.9927 | -2.9776 |
| 10358581 | Hmcn1 | hemimentin 1 | -0.483279 | 10.1578 | -3.6362 | 0.00299681 | 0.999875 | 58.9926 | -2.982 |
| 10526217 | Rfc2 | replication factor C (activator 1) 2 | -0.455153 | 6.63206 | -3.60847 | 0.00316029 | 0.999875 | 59.9925 | -2.99897 |
| 10363187 | NA | NA | 0.385954 | 4.81769 | 3.60384 | 0.00318847 | 0.999875 | 60.9924 | -3.00181 |
| 10404341 | Prl4a1 | prolactin family 4, subfamily a, member 1 | -0.367777 | 5.95991 | -3.59652 | 0.00323349 | 0.999875 | 61.9922 | -3.00631 |
| 10598093 | Gm9904 | predicted gene 9904 | 0.478939 | 8.39099 | 3.57973 | 0.00333928 | 0.999875 | 62.9921 | -3.01665 |
| 10400189 | Gm7172 | predicted gene 7172 | -0.537149 | 7.55191 | -3.57951 | 0.00334068 | 0.999875 | 63.992 | -3.01679 |
| 10584514 | Olfr972 | olfactory receptor 972 | 0.410481 | 4.8403 | 3.57667 | 0.00335895 | 0.999875 | 64.9919 | -3.01854 |
| 10418812 | 1700024G13Rik | RIKEN cDNA 1700024G13 gene | 0.381632 | 6.73251 | 3.57226 | 0.00338751 | 0.999875 | 65.9917 | -3.02127 |
| 10389717 | NA | NA | 0.624664 | 6.04159 | 3.56055 | 0.00346443 | 0.999875 | 66.9916 | -3.0285 |
| 10400458 | NA | NA | 0.425655 | 5.40039 | 3.55482 | 0.00350275 | 0.999875 | 67.9915 | -3.03206 |
| 10344723 | Rrs1 | RRS1 ribosome biogenesis regulator homolog (<i>S. cerevisiae</i>) | 0.572215 | 7.09321 | 3.5234 | 0.0037205 | 0.999875 | 68.9914 | -3.05158 |
| 10358513 | Hmcn1 | hemimentin 1 | -0.411107 | 7.70316 | -3.50225 | 0.00387477 | 0.999875 | 69.9912 | -3.06479 |
| 10497319 | NA | NA | 0.667611 | 4.42793 | 3.49955 | 0.00389492 | 0.999875 | 70.9911 | -3.06648 |
| 10438666 | NA | NA | -0.387375 | 7.78079 | -3.49847 | 0.00390301 | 0.999875 | 71.991 | -3.06715 |
| 10439287 | NA | NA | 0.390671 | 4.47559 | 3.49666 | 0.00391664 | 0.999875 | 72.9909 | -3.06829 |

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| 10548385 | Olr1 | oxidized low density lipoprotein (lectin-like) receptor 1 | 0.654925 | 7.26112 | 3.48683 | 0.00399132 | 0.999875 | 73.9907 | -3.07445 |
| 10561513 | Mrps12 | mitochondrial ribosomal protein S12 | 0.556881 | 7.40551 | 3.47425 | 0.00408901 | 0.999875 | 74.9906 | -3.08235 |
| 10529091 | NA | NA | 0.952884 | 5.52358 | 3.47399 | 0.00409106 | 0.999875 | 75.9905 | -3.08251 |
| 10555889 | Olfr663 | olfactory receptor 663 | 0.352781 | 5.40881 | 3.45988 | 0.00420358 | 0.999875 | 76.9904 | -3.0914 |
| 10431585 | Chkb | choline kinase beta | -0.387953 | 7.30779 | -3.45498 | 0.00424335 | 0.999875 | 77.9902 | -3.09449 |
| 10379511 | Ccl2 | chemokine (C-C motif) ligand 2 | 0.455138 | 8.12556 | 3.45477 | 0.0042451 | 0.999875 | 78.9901 | -3.09462 |
| 10577424 | NA | NA | 0.420237 | 5.35927 | 3.4419 | 0.00435146 | 0.999875 | 79.99 | -3.10275 |
| 10374553 | Tmem17 | transmembrane protein 17 | 0.395954 | 7.01328 | 3.43329 | 0.00442413 | 0.999875 | 80.9899 | -3.10819 |
| 10555177 | NA | NA | 0.451431 | 5.33993 | 3.41536 | 0.00457943 | 0.999875 | 81.9897 | -3.11956 |
| 10597511 | Gm5921 | predicted gene 5921 | -0.865025 | 6.59008 | -3.40043 | 0.00471299 | 0.999875 | 82.9896 | -3.12906 |
| 10502240 | Npnt | nephronectin | -0.42111 | 9.59286 | -3.40008 | 0.00471621 | 0.999875 | 83.9895 | -3.12929 |
| 10358583 | Hmcn1 | hemientin 1 | -0.393875 | 10.7507 | -3.39833 | 0.00473211 | 0.999875 | 84.9894 | -3.1304 |
| 10538580 | V1rc7 | vomeronasal 1 receptor, C7 | 0.36692 | 3.79024 | 3.38174 | 0.00488567 | 0.999875 | 85.9892 | -3.14098 |
| 10440903 | 4932438H23Rik | RIKEN cDNA 4932438H23 gene | 0.383643 | 6.65374 | 3.37918 | 0.00490987 | 0.999875 | 86.9891 | -3.14262 |
| 10493910 | Gm4858 | predicted gene 4858 | -0.624752 | 5.56506 | -3.37805 | 0.0049205 | 0.999875 | 87.989 | -3.14334 |
| 10438423 | Olfr165 | olfactory receptor 165 | 0.457679 | 5.99437 | 3.36955 | 0.00500177 | 0.999875 | 88.9889 | -3.14878 |
| 10435787 | NA | NA | -0.5593 | 6.1923 | -3.36414 | 0.00505413 | 0.999875 | 89.9887 | -3.15224 |
| 10510265 | Nppa | natriuretic peptide precursor type A | 0.497704 | 6.93221 | 3.36372 | 0.00505822 | 0.999875 | 90.9886 | -3.15251 |
| 10591614 | Dock6 | dedicator of cytokinesis 6 | -0.536256 | 7.62885 | -3.35193 | 0.00517439 | 0.999875 | 91.9885 | -3.16007 |
| 10366158 | NA | NA | 0.412725 | 3.86174 | 3.34 | 0.00529476 | 0.999875 | 92.9884 | -3.16774 |
| 10518568 | Gm13208 | ribosomal protein SA pseudogene | -0.44359 | 5.44908 | -3.33906 | 0.00530429 | 0.999875 | 93.9882 | -3.16834 |
| 10607950 | NA | NA | -0.381624 | 7.01033 | -3.33715 | 0.00532385 | 0.999875 | 94.9881 | -3.16957 |
| 10555877 | Olfr654 | olfactory receptor 654 | 0.375423 | 5.57746 | 3.33377 | 0.0053587 | 0.999875 | 95.988 | -3.17175 |
| 10536667 | Ptprz1 | protein tyrosine phosphatase, receptor type Z, polypeptide 1 | -0.376799 | 6.21012 | -3.33173 | 0.00537979 | 0.999875 | 96.9879 | -3.17306 |
| 10538567 | V1rc32 | vomeronasal 1 receptor, C32 | 0.370247 | 4.47396 | 3.329 | 0.00540819 | 0.999875 | 97.9877 | -3.17482 |
| 10549534 | NA | NA | -0.406346 | 6.34481 | -3.32891 | 0.00540907 | 0.999875 | 98.9876 | -3.17487 |
| 10469816 | Il1rn | interleukin 1 receptor antagonist | 0.538099 | 7.82725 | 3.32739 | 0.00542494 | 0.999875 | 99.9875 | -3.17585 |
| 10480459 | Hnmt | histamine N-methyltransferase | -0.371321 | 6.57713 | -3.31384 | 0.00556847 | 0.999875 | 100.987 | -3.18459 |
| 10600825 | Zc3h12b | zinc finger CCCH-type containing 12B | -0.410157 | 6.27604 | -3.30672 | 0.00564545 | 0.999875 | 101.987 | -3.1892 |
| 10527959 | NA | NA | -0.333045 | 7.19192 | -3.30231 | 0.00569365 | 0.999875 | 102.987 | -3.19205 |
| 10531049 | NA | NA | 0.500304 | 5.49466 | 3.30193 | 0.00569785 | 0.999875 | 103.987 | -3.1923 |
| 10403013 | NA | NA | 0.67982 | 5.39505 | 3.28882 | 0.00584364 | 0.999875 | 104.987 | -3.20079 |
| 10522285 | C330024D21Rik | RIKEN cDNA C330024D21 gene | 0.485636 | 5.91653 | 3.28471 | 0.00589015 | 0.999875 | 105.987 | -3.20345 |
| 10539802 | Bmp10 | bone morphogenetic protein 10 | 0.370971 | 5.39262 | 3.28309 | 0.0059085 | 0.999875 | 106.987 | -3.2045 |
| 10608509 | NA | NA | 0.390444 | 7.0762 | 3.27794 | 0.00596749 | 0.999875 | 107.986 | -3.20785 |
| 10534493 | Ccl24 | chemokine (C-C motif) ligand 24 | 0.620415 | 7.77179 | 3.27274 | 0.00602758 | 0.999875 | 108.986 | -3.21122 |
| 10379518 | Ccl7 | chemokine (C-C motif) ligand 7 | 0.374461 | 7.82913 | 3.2712 | 0.00604552 | 0.999875 | 109.986 | -3.21222 |
| 10422699 | NA | NA | -0.358721 | 7.19984 | -3.26964 | 0.00606375 | 0.999875 | 110.986 | -3.21324 |
| 10358660 | Hmcn1 | hemientin 1 | -0.596176 | 7.73839 | -3.26784 | 0.00608491 | 0.999875 | 111.986 | -3.21441 |
| 10433190 | NA | NA | 0.443171 | 4.9124 | 3.2678 | 0.00608534 | 0.999875 | 112.986 | -3.21444 |
| 10580733 | Bbs2 | Bardet-Biedl syndrome 2 (human) | -0.331932 | 6.87402 | -3.25296 | 0.00626197 | 0.999875 | 113.986 | -3.2241 |
| 10415606 | NA | NA | -0.409998 | 5.20163 | -3.24161 | 0.00640058 | 0.999875 | 114.986 | -3.23151 |

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| 10565355 | Vmn2r70 | vomeronasal 2, receptor 70 | 0.371747 | 5.27183 | 3.22899 | 0.00655819 | 0.999875 | 115.985 | -3.23975 |
| 10416897 | NA | NA | -0.663033 | 3.57305 | -3.228 | 0.00657075 | 0.999875 | 116.985 | -3.2404 |
| 10578690 | Neil3 | nei like 3 (E. coli) | -0.343716 | 6.88882 | -3.22049 | 0.00666658 | 0.999875 | 117.985 | -3.24532 |
| 10562576 | Plekhf1 | pleckstrin homology domain containing, family F (with FYVE domain) member 1 | -0.412402 | 6.76742 | -3.21252 | 0.00676994 | 0.999875 | 118.985 | -3.25055 |
| 10591125 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.352537 | 7.36804 | -3.20624 | 0.00685238 | 0.999875 | 119.985 | -3.25466 |
| 10526085 | NA | NA | 0.377441 | 5.91434 | 3.20481 | 0.00687132 | 0.999875 | 120.985 | -3.2556 |
| 10408900 | NA | NA | 0.320878 | 6.47584 | 3.20466 | 0.00687325 | 0.999875 | 121.985 | -3.2557 |
| 10537062 | Mest | mesoderm specific transcript | -0.395382 | 7.98758 | -3.18876 | 0.00708727 | 0.999875 | 122.985 | -3.26615 |
| 10373073 | D10Ertd610e | DNA segment, Chr 10, ERATO Doi 610, expressed | -0.345031 | 7.23193 | -3.18839 | 0.00709235 | 0.999875 | 123.984 | -3.26639 |
| 10497613 | Gm10258 | predicted gene 10258 | -0.362732 | 6.09921 | -3.17858 | 0.00722787 | 0.999875 | 124.984 | -3.27286 |
| 10596148 | Trf | transferrin | -0.347465 | 9.83617 | -3.15539 | 0.00755854 | 0.999875 | 125.984 | -3.28817 |
| 10465366 | Zfp1 | zinc finger like protein 1 | -0.338945 | 6.58738 | -3.15273 | 0.00759734 | 0.999875 | 126.984 | -3.28992 |
| 10358599 | Hmcn1 | hemimentin 1 | -0.423835 | 8.25608 | -3.14991 | 0.0076388 | 0.999875 | 127.984 | -3.29179 |
| 10439409 | BC031361 | cDNA sequence BC031361 | 0.354163 | 5.70328 | 3.14401 | 0.00772628 | 0.999875 | 128.984 | -3.2957 |
| 10446769 | NA | NA | 0.38214 | 3.61465 | 3.13943 | 0.00779473 | 0.999875 | 129.984 | -3.29873 |
| 10356461 | Hjrup | Holliday junction recognition protein | 0.416156 | 7.10286 | 3.12958 | 0.00794426 | 0.999875 | 130.984 | -3.30526 |
| 10410317 | Zfp459 | zinc finger protein 459 | -0.388587 | 6.37735 | -3.12916 | 0.00795066 | 0.999875 | 131.983 | -3.30553 |
| 10563911 | NA | NA | 0.439647 | 3.32552 | 3.12837 | 0.00796286 | 0.999875 | 132.983 | -3.30606 |
| 10351959 | 1810030J14Rik | RIKEN cDNA 1810030J14 gene | 0.40095 | 4.9933 | 3.12673 | 0.00798813 | 0.999875 | 133.983 | -3.30715 |
| 10565994 | Art2b | ADP-ribosyltransferase 2b | 0.4557 | 6.38943 | 3.12373 | 0.00803446 | 0.999875 | 134.983 | -3.30914 |
| 10531191 | Adamts3 | a disintegrin-like and metalloproteinase (reprolysins type) with thrombospondin type 1 motif, 3 | -0.335563 | 6.05808 | -3.12332 | 0.00804075 | 0.999875 | 135.983 | -3.30941 |
| 10513266 | Olfr267 | olfactory receptor 267 | 0.328484 | 6.49039 | 3.11311 | 0.0082007 | 0.999875 | 136.983 | -3.3162 |
| 10395953 | NA | NA | 0.361745 | 6.56912 | 3.10745 | 0.00829063 | 0.999875 | 137.983 | -3.31996 |
| 10439289 | BC117090 | cDNA sequence BC117090 | 0.38988 | 5.4424 | 3.10662 | 0.00830391 | 0.999875 | 138.983 | -3.32051 |
| 10545569 | Reg3g | regenerating islet-derived 3 gamma | 1.02843 | 8.00832 | 3.09267 | 0.00853043 | 0.999875 | 139.982 | -3.32981 |
| 10358658 | Hmcn1 | hemimentin 1 | -0.559923 | 9.35044 | -3.0921 | 0.00853973 | 0.999875 | 140.982 | -3.33019 |
| 10582190 | Gins2 | GINS complex subunit 2 (Psf2 homolog) | -0.325205 | 7.71734 | -3.09208 | 0.00854014 | 0.999875 | 141.982 | -3.3302 |
| 10499899 | Sprr1a | small proline-rich protein 1A | 0.387723 | 8.05856 | 3.08292 | 0.00869217 | 0.999875 | 142.982 | -3.33631 |
| 10452376 | Vmn2r120 | vomeronasal 2, receptor 120 | 0.328112 | 5.79508 | 3.06994 | 0.00891249 | 0.999875 | 143.982 | -3.34498 |
| 10397559 | Gm8655 | predicted gene 8655 | 0.482262 | 7.03908 | 3.06722 | 0.00895934 | 0.999875 | 144.982 | -3.3468 |
| 10583418 | Olfr857 | olfactory receptor 857 | -0.366155 | 4.71645 | -3.05014 | 0.00925926 | 0.999875 | 145.982 | -3.35824 |
| 10401665 | NA | NA | 0.405765 | 5.49809 | 3.04679 | 0.00931927 | 0.999875 | 146.982 | -3.36048 |
| 10476880 | A530006G24Rik | RIKEN cDNA A530006G24 gene | -0.378696 | 6.63898 | -3.04541 | 0.0093441 | 0.999875 | 147.981 | -3.36141 |
| 10484283 | Pde1a | phosphodiesterase 1A, calmodulin-dependent | 0.322068 | 6.18459 | 3.03742 | 0.00948902 | 0.999875 | 148.981 | -3.36677 |
| 10380965 | Gsdma2 | gasdermin A2 | 0.350401 | 5.12837 | 3.03169 | 0.00959443 | 0.999875 | 149.981 | -3.37062 |

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|----------|---------------|---|-----------|---------|----------|------------|----------|---------|----------|
| 10563407 | Kcnj14 | potassium inwardly-rectifying channel, subfamily J, member 14 | 0.314553 | 7.54943 | 3.03159 | 0.00959627 | 0.999875 | 150.981 | -3.37068 |
| 10346678 | Carf | calcium response factor | -0.398666 | 6.74575 | -3.0289 | 0.0096461 | 0.999875 | 151.981 | -3.37249 |
| 10346928 | NA | NA | 0.334689 | 6.10137 | 3.02729 | 0.0096762 | 0.999875 | 152.981 | -3.37358 |
| 10499363 | Bglap1 | bone gamma carboxyglutamate protein 1 | 0.356403 | 7.79753 | 3.02637 | 0.00969336 | 0.999875 | 153.981 | -3.37419 |
| 10345875 | NA | NA | 0.520353 | 6.27269 | 3.02111 | 0.00979207 | 0.999875 | 154.981 | -3.37773 |
| 10384782 | Vrk2 | vaccinia related kinase 2 | 0.329852 | 6.38551 | 3.02088 | 0.00979636 | 0.999875 | 155.98 | -3.37788 |
| 10376950 | Pmp22 | peripheral myelin protein 22 | -0.59586 | 10.9042 | -3.01283 | 0.00994962 | 0.999875 | 156.98 | -3.3833 |
| 10491619 | 4932438A13Rik | RIKEN cDNA 4932438A13 gene | -0.348723 | 8.03325 | -3.00908 | 0.0100217 | 0.999875 | 157.98 | -3.38583 |
| 10416850 | Scel | sciellin | -0.389509 | 9.35264 | -3.00694 | 0.0100631 | 0.999875 | 158.98 | -3.38727 |
| 10572960 | LOC100039235 | hypothetical protein LOC100039235 | -0.369073 | 7.06316 | -3.00583 | 0.0100846 | 0.999875 | 159.98 | -3.38801 |
| 10487588 | Il1a | interleukin 1 alpha | 0.554749 | 7.00552 | 3.00538 | 0.0100934 | 0.999875 | 160.98 | -3.38832 |
| 10452468 | E130009J12Rik | RIKEN cDNA E130009J12 gene | 0.454738 | 7.12703 | 3.00385 | 0.0101233 | 0.999875 | 161.98 | -3.38935 |
| 10493905 | NA | NA | 0.503051 | 4.48181 | 2.99972 | 0.0102041 | 0.999875 | 162.98 | -3.39214 |
| 10368050 | Ect2l | epithelial cell transforming sequence 2 oncogene-like | -0.337129 | 5.26621 | -2.99574 | 0.0102827 | 0.999875 | 163.979 | -3.39482 |
| 10565204 | Bnc1 | basonuclin 1 | 0.310145 | 6.5935 | 2.99535 | 0.0102904 | 0.999875 | 164.979 | -3.39508 |
| 10601461 | Cyhc1 | cylicin, basic protein of sperm head cytoskeleton 1 | 0.306373 | 4.65978 | 2.9946 | 0.0103051 | 0.999875 | 165.979 | -3.39558 |
| 10491617 | 4932438A13Rik | RIKEN cDNA 4932438A13 gene | -0.314021 | 8.87035 | -2.98891 | 0.0104187 | 0.999875 | 166.979 | -3.39942 |
| 10472944 | NA | NA | 0.361055 | 4.93866 | 2.9881 | 0.0104349 | 0.999875 | 167.979 | -3.39997 |
| 10571749 | NA | NA | 0.416771 | 5.92889 | 2.98551 | 0.0104871 | 0.999875 | 168.979 | -3.40172 |
| 10550217 | Crxos1 | Crx opposite strand transcript 1 | 0.329887 | 5.40884 | 2.98187 | 0.010561 | 0.999875 | 169.979 | -3.40418 |
| 10420596 | Tnfrsf19 | tumor necrosis factor receptor superfamily, member 19 | -0.308318 | 7.15118 | -2.97675 | 0.0106656 | 0.999875 | 170.979 | -3.40764 |
| 10479973 | Gm10115 | predicted gene 10115 | -0.38636 | 9.2463 | -2.96832 | 0.0108401 | 0.999875 | 171.978 | -3.41334 |
| 10368173 | 4933406P04Rik | RIKEN cDNA 4933406P04 gene | -0.313718 | 5.31447 | -2.96323 | 0.010947 | 0.999875 | 172.978 | -3.41679 |
| 10445153 | Olfr121 | olfactory receptor 121 | -0.369581 | 4.76333 | -2.96286 | 0.0109547 | 0.999875 | 173.978 | -3.41704 |
| 10482123 | Olfr351 | olfactory receptor 351 | 0.318459 | 5.77212 | 2.95705 | 0.0110779 | 0.999875 | 174.978 | -3.42097 |
| 10566620 | Olfr711 | olfactory receptor 711 | 0.394745 | 6.05021 | 2.95522 | 0.011117 | 0.999875 | 175.978 | -3.42221 |
| 10533085 | Pebp1 | phosphatidylethanolamine binding protein 1 | -0.449266 | 7.14388 | -2.95497 | 0.0111223 | 0.999875 | 176.978 | -3.42238 |
| 10406614 | Mtx3 | metaxin 3 | -0.309362 | 6.748 | -2.95238 | 0.011178 | 0.999875 | 177.978 | -3.42414 |
| 10412414 | 4833420G17Rik | RIKEN cDNA 4833420G17 gene | -0.369693 | 7.02085 | -2.94639 | 0.0113075 | 0.999875 | 178.978 | -3.4282 |
| 10404898 | Gm1574 | predicted gene 1574 | 0.321952 | 6.9371 | 2.94542 | 0.0113287 | 0.999875 | 179.977 | -3.42886 |
| 10565990 | Art2a | ADP-ribosyltransferase 2a | 0.467023 | 7.18712 | 2.94518 | 0.0113339 | 0.999875 | 180.977 | -3.42902 |
| 10398859 | Adssl1 | adenylosuccinate synthetase like 1 | 0.306841 | 7.12916 | 2.93927 | 0.0114635 | 0.999875 | 181.977 | -3.43303 |
| 10598976 | Timp1 | tissue inhibitor of metalloproteinase 1 | 0.44508 | 7.30858 | 2.93123 | 0.0116424 | 0.999875 | 182.977 | -3.43849 |
| 10492983 | Fcrl5 | Fc receptor-like 5 | 0.322588 | 6.10231 | 2.92819 | 0.0117105 | 0.999875 | 183.977 | -3.44055 |
| 10444587 | NA | NA | 0.324429 | 6.32399 | 2.92763 | 0.0117232 | 0.999875 | 184.977 | -3.44094 |
| 10454632 | Camk4 | calcium/calmodulin-dependent protein kinase IV | 0.298474 | 6.20393 | 2.92527 | 0.0117766 | 0.999875 | 185.977 | -3.44254 |

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|----------|---------------|--|-----------|---------|----------|-----------|----------|---------|----------|
| 10402347 | Ifi27l2a | interferon, alpha-inducible protein 27 like 2A | 0.325175 | 7.22826 | 2.92457 | 0.0117924 | 0.999875 | 186.977 | -3.44302 |
| 10576386 | Rhou | ras homolog gene family, member U | 0.347981 | 7.5999 | 2.92172 | 0.0118574 | 0.999875 | 187.976 | -3.44496 |
| 10406548 | NA | NA | 0.437567 | 5.66042 | 2.91813 | 0.0119394 | 0.999875 | 188.976 | -3.4474 |
| 10458888 | NA | NA | -0.47547 | 3.82931 | -2.91717 | 0.0119616 | 0.999875 | 189.976 | -3.44805 |
| 10499089 | NA | NA | 0.402351 | 5.56268 | 2.91563 | 0.0119971 | 0.999875 | 190.976 | -3.4491 |
| 10345077 | Khdc1a | KH domain containing 1A | -0.410607 | 4.88996 | -2.91552 | 0.0119996 | 0.999875 | 191.976 | -3.44918 |
| 10519988 | AI847670 | expressed sequence AI847670 | -0.323897 | 7.17885 | -2.90892 | 0.0121529 | 0.999875 | 192.976 | -3.45367 |
| 10480288 | Neb1 | nebullette | -0.321632 | 8.70284 | -2.8989 | 0.0123891 | 0.999875 | 193.976 | -3.46049 |
| 10586174 | NA | NA | -0.335214 | 5.28198 | -2.89681 | 0.0124392 | 0.999875 | 194.976 | -3.46192 |
| 10597960 | Slc6a20a | solute carrier family 6 (neurotransmitter transporter), member 20A | -0.296206 | 7.59733 | -2.89373 | 0.012513 | 0.999875 | 195.975 | -3.46402 |
| 10571198 | Gm1698 | predicted gene 1698 | 0.326724 | 5.51721 | 2.89246 | 0.0125436 | 0.999875 | 196.975 | -3.46488 |
| 10354773 | Hsfy2 | heat shock transcription factor, Y linked 2 | 0.325707 | 4.73543 | 2.89022 | 0.0125977 | 0.999875 | 197.975 | -3.46641 |
| 10386703 | Gm12271 | predicted gene 12271 | 0.374317 | 5.65944 | 2.88806 | 0.0126501 | 0.999875 | 198.975 | -3.46788 |
| 10538269 | NA | NA | -0.302144 | 5.32311 | -2.88464 | 0.0127335 | 0.999875 | 199.975 | -3.47022 |
| 10582839 | Gm9909 | predicted gene 9909 | -0.349646 | 7.55996 | -2.88379 | 0.0127543 | 0.999875 | 200.975 | -3.4708 |
| 10403579 | Pr12c5 | prolactin family 2, subfamily c, member 5 | 0.405004 | 5.57833 | 2.88314 | 0.0127703 | 0.999875 | 201.975 | -3.47124 |
| 10407803 | Gpr137b | G protein-coupled receptor 137B | -0.408478 | 7.19423 | -2.88023 | 0.0128418 | 0.999875 | 202.975 | -3.47323 |
| 10549055 | NA | NA | 0.431987 | 5.08095 | 2.87777 | 0.0129028 | 0.999875 | 203.974 | -3.47491 |
| 10582458 | Ankrd11 | ankyrin repeat domain 11 | -0.294785 | 7.04711 | -2.87609 | 0.0129444 | 0.999875 | 204.974 | -3.47605 |
| 10403750 | 2810021B07Rik | RIKEN cDNA 2810021B07 gene | -0.353121 | 8.58741 | -2.87292 | 0.0130236 | 0.999875 | 205.974 | -3.47822 |
| 10583291 | 2200002K05Rik | RIKEN cDNA 2200002K05 gene | 0.359157 | 6.31219 | 2.8724 | 0.0130365 | 0.999875 | 206.974 | -3.47857 |
| 10397507 | Gstz1 | glutathione transferase zeta 1 (maleylacetoacetate isomerase) | -0.332998 | 6.46998 | -2.87232 | 0.0130387 | 0.999875 | 207.974 | -3.47863 |
| 10421293 | Ppp3cc | protein phosphatase 3, catalytic subunit, gamma isoform | -0.295463 | 8.62844 | -2.869 | 0.0131219 | 0.999875 | 208.974 | -3.4809 |
| 10451167 | Tmem63b | transmembrane protein 63b | -0.344867 | 8.28697 | -2.85807 | 0.0134004 | 0.999875 | 209.974 | -3.48837 |
| 10581917 | 4932417116Rik | RIKEN cDNA 4932417116 gene | -0.288378 | 6.54277 | -2.8548 | 0.0134848 | 0.999875 | 210.974 | -3.49061 |
| 10495820 | Fabp2 | fatty acid binding protein 2, intestinal | 0.337377 | 6.06809 | 2.8531 | 0.013529 | 0.999875 | 211.973 | -3.49178 |
| 10507775 | NA | NA | 0.375778 | 4.46735 | 2.84991 | 0.0136122 | 0.999875 | 212.973 | -3.49396 |
| 10469579 | NA | NA | 0.323314 | 5.80849 | 2.84683 | 0.0136928 | 0.999875 | 213.973 | -3.49607 |
| 10606835 | Bex2 | brain expressed X-linked 2 | 0.391617 | 5.89828 | 2.84604 | 0.0137137 | 0.999875 | 214.973 | -3.49661 |
| 10572083 | NA | NA | 0.372332 | 6.16685 | 2.84489 | 0.013744 | 0.999875 | 215.973 | -3.4974 |
| 10502791 | Ifi44 | interferon-induced protein 44 | 0.461923 | 8.02579 | 2.84465 | 0.0137503 | 0.999875 | 216.973 | -3.49756 |
| 10358635 | Hmcn1 | hemimentin 1 | -0.338885 | 7.66413 | -2.84239 | 0.01381 | 0.999875 | 217.973 | -3.49911 |
| 10350504 | Gm5263 | predicted gene 5263 | -0.323132 | 8.04567 | -2.83959 | 0.0138846 | 0.999875 | 218.973 | -3.50103 |
| 10362442 | Trdn | triadin | 0.601865 | 6.71536 | 2.83694 | 0.0139552 | 0.999875 | 219.972 | -3.50284 |
| 10439974 | Gm8900 | predicted gene 8900 | 0.361742 | 5.43854 | 2.8348 | 0.0140127 | 0.999875 | 220.972 | -3.50431 |
| 10548779 | Pbp2 | phosphatidylethanolamine binding protein 2 | 0.350254 | 6.23911 | 2.83263 | 0.0140711 | 0.999875 | 221.972 | -3.5058 |

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|-----------------|---------------|---|-----------------|----------------|----------------|------------------|-----------------|----------------|-----------------|
| 10470182 | Bmyc | brain expressed myelocytomatosis oncogene | 0.299731 | 7.34202 | 2.82578 | 0.0142573 | 0.999875 | 222.972 | -3.5105 |
| 10598598 | 1700054O13Rik | RIKEN cDNA 1700054O13 gene | 0.298106 | 7.21737 | 2.82097 | 0.0143897 | 0.999875 | 223.972 | -3.5138 |
| 10476950 | NA | NA | 0.300716 | 5.90719 | 2.81923 | 0.0144377 | 0.999875 | 224.972 | -3.515 |
| 10358601 | Hmcn1 | hemimentin 1 | -0.351144 | 8.55008 | -2.81737 | 0.0144892 | 0.999875 | 225.972 | -3.51627 |
| 10376376 | 1810065E05Rik | RIKEN cDNA 1810065E05 gene | 0.392127 | 5.3718 | 2.80549 | 0.0148232 | 0.999875 | 226.972 | -3.52443 |
| 10415608 | lft88 | intraflagellar transport 88 homolog (Chlamydomonas) | -0.296567 | 8.19303 | -2.80484 | 0.0148416 | 0.999875 | 227.971 | -3.52488 |
| 10543460 | 6332401O19Rik | RIKEN cDNA 6332401O19 gene | 0.291862 | 6.29064 | 2.80443 | 0.0148532 | 0.999875 | 228.971 | -3.52516 |
| 10379630 | Slfn2 | schlafen 2 | 0.363942 | 7.73285 | 2.801 | 0.0149513 | 0.999875 | 229.971 | -3.52752 |
| 10553027 | Fut1 | fucosyltransferase 1 | -0.289407 | 5.76655 | -2.79471 | 0.0151327 | 0.999875 | 230.971 | -3.53185 |
| 10501164 | Csf1 | colony stimulating factor 1 (macrophage) | 0.283695 | 7.31302 | 2.79442 | 0.0151411 | 0.999875 | 231.971 | -3.53205 |
| 10497329 | NA | NA | 0.399884 | 6.26731 | 2.79423 | 0.0151468 | 0.999875 | 232.971 | -3.53218 |
| 10462281 | Vldlr | very low density lipoprotein receptor | -0.34193 | 8.12286 | -2.78737 | 0.0153473 | 0.999875 | 233.971 | -3.5369 |
| 10358577 | Hmcn1 | hemimentin 1 | -0.471074 | 10.1355 | -2.7863 | 0.0153785 | 0.999875 | 234.971 | -3.53763 |
| 10428081 | Hrsp12 | heat-responsive protein 12 | -0.353649 | 7.3007 | -2.78526 | 0.0154094 | 0.999875 | 235.97 | -3.53835 |
| 10487597 | Il1b | interleukin 1 beta | 0.414658 | 8.83271 | 2.78121 | 0.0155294 | 0.999875 | 236.97 | -3.54114 |
| 10562603 | NA | NA | 0.340421 | 3.92956 | 2.77603 | 0.0156843 | 0.999875 | 237.97 | -3.54471 |
| 10501895 | Myoz2 | myozenin 2 | 0.415454 | 7.33102 | 2.77556 | 0.0156983 | 0.999875 | 238.97 | -3.54503 |
| 10467258 | Myof | myoferlin | -0.351434 | 8.79882 | -2.77515 | 0.0157107 | 0.999875 | 239.97 | -3.54532 |
| 10542255 | Tas2r113 | taste receptor, type 2, member 113 | 0.327596 | 6.58407 | 2.77396 | 0.0157465 | 0.999875 | 240.97 | -3.54613 |
| 10403834 | Sfrp4 | secreted frizzled-related protein 4 | 0.332606 | 6.919 | 2.77081 | 0.0158419 | 0.999875 | 241.97 | -3.54831 |
| 10546533 | NA | NA | 0.324446 | 7.42551 | 2.77071 | 0.0158448 | 0.999875 | 242.97 | -3.54837 |
| 10522494 | Gm6116 | predicted gene 6116 | 0.31099 | 5.38716 | 2.77067 | 0.0158461 | 0.999875 | 243.969 | -3.5484 |
| 10537676 | 1700034O15Rik | RIKEN cDNA 1700034O15 gene | 0.327383 | 5.96705 | 2.76886 | 0.015901 | 0.999875 | 244.969 | -3.54965 |
| 10546024 | Prokr1 | prokineticin receptor 1 | -0.361833 | 6.4937 | -2.76732 | 0.015948 | 0.999875 | 245.969 | -3.55071 |
| 10549982 | V1rg2 | vomer nasal 1 receptor, G2 | 0.288609 | 4.76806 | 2.76496 | 0.0160202 | 0.999875 | 246.969 | -3.55234 |
| 10527182 | E130309D02Rik | RIKEN cDNA E130309D02 gene | 0.400019 | 6.89584 | 2.75981 | 0.016179 | 0.999875 | 247.969 | -3.55589 |
| 10577449 | Atp7b | ATPase, Cu ⁺⁺ transporting, beta polypeptide | -0.302512 | 7.23344 | -2.75875 | 0.0162119 | 0.999875 | 248.969 | -3.55662 |
| 10404452 | Serp1nb9d | serine (or cysteine) peptidase inhibitor, clade B, member 9d | 0.318939 | 4.84132 | 2.75624 | 0.01629 | 0.999875 | 249.969 | -3.55835 |
| 10412062 | Gm6233 | predicted gene 6233 | 0.328437 | 7.72628 | 2.75486 | 0.0163329 | 0.999875 | 250.969 | -3.5593 |
| 10490913 | Car3 | carbonic anhydrase 3 | 0.476554 | 8.02995 | 2.75427 | 0.0163516 | 0.999875 | 251.968 | -3.55971 |
| 10456754 | Gm10532 | predicted gene 10532 | -0.311764 | 6.32315 | -2.75201 | 0.0164224 | 0.999875 | 252.968 | -3.56127 |
| 10373000 | Xrcc6bp1 | XRCC6 binding protein 1 | -0.283596 | 7.33493 | -2.74584 | 0.0166173 | 0.999875 | 253.968 | -3.56553 |
| 10403743 | Inhba | inhibin beta-A | 0.414779 | 7.51885 | 2.74362 | 0.0166881 | 0.999875 | 254.968 | -3.56706 |
| 10442052 | Gm6712 | predicted gene 6712 | -0.392149 | 7.65153 | -2.74309 | 0.0167052 | 0.999875 | 255.968 | -3.56743 |
| 10545200 | LOC100046894 | similar to Igk-C protein | -0.42186 | 6.81669 | -2.73859 | 0.0168495 | 0.999875 | 256.968 | -3.57054 |
| 10465826 | Al462493 | expressed sequence Al462493 | 0.289464 | 6.95922 | 2.73452 | 0.0169812 | 0.999875 | 257.968 | -3.57335 |
| 10407057 | Erc8 | excision repair cross-complementing rodent repair deficiency, complementation group 8 | -0.287457 | 6.5057 | -2.73209 | 0.0170604 | 0.999875 | 258.968 | -3.57503 |

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|----------|---------------|---|-----------|---------|----------|-----------|----------|---------|----------|
| 10580635 | Ces3 | carboxylesterase 3 | -0.377248 | 8.93402 | -2.73207 | 0.0170608 | 0.999875 | 259.967 | -3.57504 |
| 10450369 | Hspa1a | heat shock protein 1A | 0.520311 | 8.3405 | 2.73101 | 0.0170955 | 0.999875 | 260.967 | -3.57577 |
| 10488372 | Gm14115 | predicted gene 14115 | 0.325022 | 6.84684 | 2.72608 | 0.0172573 | 0.999875 | 261.967 | -3.57918 |
| 10577067 | NA | NA | 0.339788 | 5.77821 | 2.72015 | 0.0174543 | 0.999875 | 262.967 | -3.58329 |
| 10542335 | Gprc5a | G protein-coupled receptor, family C, group 5, member A | -0.308768 | 7.8282 | -2.71723 | 0.0175518 | 0.999875 | 263.967 | -3.5853 |
| 10473630 | Olfr1260 | olfactory receptor 1260 | 0.290637 | 5.86882 | 2.71025 | 0.0177877 | 0.999875 | 264.967 | -3.59014 |
| 10463476 | Kazald1 | Kazal-type serine peptidase inhibitor domain 1 | -0.300456 | 5.84126 | -2.70935 | 0.0178183 | 0.999875 | 265.967 | -3.59076 |
| 10451670 | Bzrpl1 | benzodiazapine receptor, peripheral-like 1 | 0.293589 | 6.17736 | 2.70879 | 0.0178371 | 0.999875 | 266.967 | -3.59114 |
| 10381561 | Asb16 | ankyrin repeat and SOCS box-containing 16 | 0.280043 | 6.4149 | 2.70722 | 0.0178907 | 0.999875 | 267.966 | -3.59223 |
| 10531495 | Gm5109 | predicted gene 5109 | 0.372702 | 6.34703 | 2.70595 | 0.0179344 | 0.999875 | 268.966 | -3.59311 |
| 10550494 | NA | NA | 0.305491 | 5.08263 | 2.70383 | 0.0180069 | 0.999875 | 269.966 | -3.59458 |
| 10481962 | Hc | hemolytic complement | -0.325999 | 9.80946 | -2.70086 | 0.0181094 | 0.999875 | 270.966 | -3.59663 |
| 10517703 | LOC626000 | similar to Cyclin D3 | -0.396468 | 6.50434 | -2.70026 | 0.0181302 | 0.999875 | 271.966 | -3.59705 |
| 10438478 | Abcc5 | ATP-binding cassette, sub-family C (CFTR/MRP), member 5 | -0.33107 | 7.61171 | -2.69969 | 0.01815 | 0.999875 | 272.966 | -3.59745 |
| 10545886 | 1700019G17Rik | RIKEN cDNA 1700019G17 gene | -0.319109 | 6.3826 | -2.69834 | 0.0181969 | 0.999875 | 273.966 | -3.59838 |
| 10504650 | NA | NA | 0.293348 | 6.84153 | 2.69684 | 0.018249 | 0.999875 | 274.966 | -3.59942 |
| 10401997 | Ptpn21 | protein tyrosine phosphatase, non-receptor type 21 | -0.296022 | 7.15851 | -2.69369 | 0.018359 | 0.999875 | 275.965 | -3.6016 |
| 10415952 | NA | NA | -0.46903 | 7.20679 | -2.69274 | 0.0183923 | 0.999875 | 276.965 | -3.60226 |
| 10368875 | Armc2 | armadillo repeat containing 2 | 0.301207 | 6.51205 | 2.6925 | 0.0184007 | 0.999875 | 277.965 | -3.60242 |
| 10505356 | Zfp618 | zinc fingerprotein 618 | 0.281142 | 7.66326 | 2.68264 | 0.0187504 | 0.999875 | 278.965 | -3.60926 |
| 10436412 | Olfr195 | olfactory receptor 195 | 0.313299 | 4.72088 | 2.68153 | 0.0187903 | 0.999875 | 279.965 | -3.61003 |
| 10598833 | Chst7 | carbohydrate (N-acetylglucosamino) sulfotransferase 7 | 0.29577 | 6.37442 | 2.67952 | 0.0188622 | 0.999875 | 280.965 | -3.61142 |
| 10433197 | Olfr161 | olfactory receptor 161 | -0.437757 | 6.19309 | -2.67801 | 0.018917 | 0.999875 | 281.965 | -3.61248 |
| 10359908 | Rgs4 | regulator of G-protein signaling 4 | 0.331341 | 7.83786 | 2.67526 | 0.0190163 | 0.999875 | 282.965 | -3.61438 |
| 10418982 | 4930596D02Rik | RIKEN cDNA 4930596D02 gene | 0.311498 | 6.80703 | 2.67503 | 0.0190245 | 0.999875 | 283.964 | -3.61454 |
| 10499945 | Lce1l | late cornified envelope 1L | 0.281607 | 6.19674 | 2.67117 | 0.0191651 | 0.999875 | 284.964 | -3.61722 |
| 10606060 | Gm4779 | predicted gene 4779 | 0.305371 | 6.61847 | 2.67067 | 0.0191835 | 0.999875 | 285.964 | -3.61756 |
| 10539983 | BC048671 | cDNA sequence BC048671 | 0.276806 | 6.35383 | 2.66893 | 0.0192471 | 0.999875 | 286.964 | -3.61877 |
| 10595094 | 2310046A06Rik | RIKEN cDNA 2310046A06 gene | 0.304034 | 6.65088 | 2.66608 | 0.0193521 | 0.999875 | 287.964 | -3.62075 |
| 10598071 | NA | NA | 0.425106 | 4.09125 | 2.66285 | 0.0194716 | 0.999875 | 288.964 | -3.62299 |
| 10430132 | Zfp647 | zinc finger protein 647 | -0.289917 | 6.55986 | -2.66164 | 0.0195165 | 0.999875 | 289.964 | -3.62383 |
| 10592404 | Olfr948 | olfactory receptor 948 | 0.404057 | 3.99398 | 2.66103 | 0.0195394 | 0.999875 | 290.964 | -3.62425 |
| 10566155 | NA | NA | 0.301035 | 7.17142 | 2.65827 | 0.0196424 | 0.999875 | 291.963 | -3.62617 |
| 10450874 | Olfr101 | olfactory receptor 101 | -0.28638 | 5.94262 | -2.6569 | 0.0196938 | 0.999875 | 292.963 | -3.62712 |
| 10375083 | Stk10 | serine/threonine kinase 10 | -0.275755 | 7.06364 | -2.65337 | 0.0198267 | 0.999875 | 293.963 | -3.62957 |
| 10361356 | NA | NA | 0.532314 | 6.63481 | 2.65145 | 0.0198993 | 0.999875 | 294.963 | -3.63091 |

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|----------|-------|--|-----------|---------|----------|-----------|----------|---------|----------|
| 10406941 | Sgtb | small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta | -0.307648 | 6.8482 | -2.65123 | 0.0199076 | 0.999875 | 295.963 | -3.63106 |
| 10359582 | Fmo2 | flavin containing monooxygenase 2 | -0.424406 | 10.0489 | -2.65035 | 0.019941 | 0.999875 | 296.963 | -3.63167 |
| 10467136 | Ch25h | cholesterol 25-hydroxylase | 0.349615 | 7.63292 | 2.65024 | 0.0199453 | 0.999875 | 297.963 | -3.63175 |

DatasetS 3B: Differential expression between NIH and congenic *Tgfbm2/3* mice after saline exposure

| Probe ID | GeneName | Gene Description | logFC | AveExpr | t | P.Value | adj.P.Val | NumExpectedFalse Discoveries | B |
|----------|----------|---|-----------|---------|----------|-------------|-----------|------------------------------|----------|
| 10479975 | NA | NA | 1.394 | 7.92893 | 8.83686 | 7.18E-07 | 0.0184214 | 0.0184214 | -1.53495 |
| 10591123 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.688868 | 7.44678 | -6.25044 | 2.91E-05 | 0.239986 | 0.479972 | -2.05307 |
| 10489909 | Ube2v1 | ubiquitin-conjugating enzyme E2 variant 1 | 0.622252 | 6.15296 | 6.21651 | 3.08E-05 | 0.239986 | 0.719959 | -2.0626 |
| 10436095 | Retnla | resistin like alpha | 0.796869 | 10.5529 | 6.0956 | 3.74E-05 | 0.239986 | 0.959945 | -2.09734 |
| 10470320 | NA | NA | 0.731817 | 6.8718 | 5.73188 | 6.81E-05 | 0.349344 | 1.74672 | -2.20922 |
| 10366158 | NA | NA | 0.680434 | 3.86174 | 5.50644 | 9.95E-05 | 0.425819 | 2.55491 | -2.28448 |
| 10597918 | NA | NA | 0.513475 | 7.77284 | 4.95892 | 0.000258087 | 0.93598 | 6.55186 | -2.48798 |
| 10493831 | S100a8 | S100 calcium binding protein A8 (calgranulin A) | 0.714693 | 8.10711 | 4.80837 | 0.000337755 | 0.93598 | 7.48784 | -2.54943 |
| 10478523 | NA | NA | 0.679547 | 7.03248 | 4.76197 | 0.000367172 | 0.93598 | 8.42382 | -2.56887 |
| 10544638 | Tra2a | transformer 2 alpha homolog (Drosophila) | 0.59984 | 8.57119 | 4.75373 | 0.000372666 | 0.93598 | 9.3598 | -2.57234 |
| 10490299 | NA | NA | 0.512326 | 3.59002 | 4.65184 | 0.000448138 | 0.93598 | 10.2958 | -2.61596 |
| 10545239 | NA | NA | -0.531164 | 6.26493 | -4.62023 | 0.000474651 | 0.93598 | 11.2318 | -2.62973 |
| 10356461 | Hjurp | Holliday junction recognition protein | 0.613534 | 7.10286 | 4.6139 | 0.00048016 | 0.93598 | 12.1677 | -2.63251 |
| 10559728 | NA | NA | 0.545412 | 4.68028 | 4.58028 | 0.000510508 | 0.93598 | 13.1037 | -2.6473 |
| 10351043 | NA | NA | 0.470789 | 8.64592 | 4.31395 | 0.000833529 | 0.99974 | 14.9961 | -2.76906 |
| 10511252 | Ube2j2 | ubiquitin-conjugating enzyme E2, J2 homolog (yeast) | 0.513371 | 6.59156 | 4.30381 | 0.000849357 | 0.99974 | 15.9958 | -2.77386 |
| 10591118 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.610416 | 9.21341 | -4.27149 | 0.00090196 | 0.99974 | 16.9956 | -2.78923 |
| 10497077 | NA | NA | 0.532217 | 4.22855 | 4.21566 | 0.00100085 | 0.99974 | 17.9953 | -2.81608 |
| 10365492 | Gm5174 | predicted gene 5174 | -0.507828 | 6.4302 | -4.21439 | 0.00100323 | 0.99974 | 18.9951 | -2.81669 |
| 10416705 | Gm9264 | predicted gene 9264 | 0.506653 | 7.3878 | 4.20053 | 0.00102953 | 0.99974 | 19.9948 | -2.82341 |
| 10499861 | S100a9 | S100 calcium binding protein A9 (calgranulin B) | 0.691118 | 9.23069 | 4.15005 | 0.00113147 | 0.99974 | 20.9945 | -2.84808 |
| 10593191 | NA | NA | 0.569935 | 4.985 | 4.14025 | 0.00115243 | 0.99974 | 21.9943 | -2.8529 |
| 10546944 | Tmem111 | transmembrane protein 111 | -0.487306 | 9.97717 | -3.98137 | 0.001554 | 0.99974 | 22.994 | -2.93268 |
| 10427667 | NA | NA | -0.536256 | 7.34688 | -3.97962 | 0.00155913 | 0.99974 | 23.9938 | -2.93357 |
| 10346069 | Gm8304 | predicted gene 8304 | 0.458005 | 5.48191 | 3.9663 | 0.00159889 | 0.99974 | 24.9935 | -2.9404 |

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|----------|----------|--|-----------|---------|----------|------------|---------|---------|----------|
| 10550494 | NA | NA | 0.441799 | 5.08263 | 3.91027 | 0.00177775 | 0.99974 | 25.9932 | -2.96932 |
| 10585706 | Cox5a | cytochrome c oxidase, subunit Va | 0.468905 | 8.89803 | 3.89753 | 0.0018212 | 0.99974 | 26.993 | -2.97595 |
| 10500524 | NA | NA | 0.506897 | 5.6791 | 3.85252 | 0.00198363 | 0.99974 | 27.9927 | -2.99952 |
| 10456968 | Gm6133 | predicted gene 6133 | 0.672685 | 4.42997 | 3.80545 | 0.00216937 | 0.99974 | 28.9925 | -3.02442 |
| 10533858 | Eif2b1 | eukaryotic translation initiation factor 2B, subunit 1 (alpha) | -0.412219 | 6.97704 | -3.79897 | 0.00219628 | 0.99974 | 29.9922 | -3.02786 |
| 10443463 | Cdkn1a | cyclin-dependent kinase inhibitor 1A (P21) | -0.418676 | 8.00386 | -3.79766 | 0.00220178 | 0.99974 | 30.9919 | -3.02856 |
| 10578320 | Gm8423 | predicted gene 8423 | 0.496486 | 6.93168 | 3.7963 | 0.00220747 | 0.99974 | 31.9917 | -3.02928 |
| 10491913 | NA | NA | -0.549709 | 4.46789 | -3.76239 | 0.00235479 | 0.99974 | 32.9914 | -3.04741 |
| 10545255 | Rpia | ribose 5-phosphate isomerase A | 0.409998 | 6.94913 | 3.76066 | 0.00236258 | 0.99974 | 33.9912 | -3.04834 |
| 10585986 | Myo9a | myosin IXa | -0.609314 | 8.47898 | -3.75898 | 0.00237018 | 0.99974 | 34.9909 | -3.04924 |
| 10484704 | Olfr1157 | olfactory receptor 1157 | 0.418631 | 5.5094 | 3.73033 | 0.00250333 | 0.99974 | 35.9906 | -3.06467 |
| 10400124 | Gm7239 | predicted gene 7239 | 0.410634 | 7.27438 | 3.71337 | 0.00258569 | 0.99974 | 36.9904 | -3.07385 |
| 10541895 | Tnfrsf1a | tumor necrosis factor receptor superfamily, member 1a | 0.380194 | 7.4899 | 3.70756 | 0.00261456 | 0.99974 | 37.9901 | -3.077 |
| 10450694 | H2-T22 | histocompatibility 2, T region locus 22 | 0.407411 | 6.21232 | 3.67291 | 0.00279355 | 0.99974 | 38.9899 | -3.09587 |
| 10445796 | AI314976 | expressed sequence AI314976 | 0.384334 | 6.95405 | 3.6502 | 0.0029176 | 0.99974 | 39.9896 | -3.10831 |
| 10508721 | Snora44 | small nucleolar RNA, H/ACA box 44 | 0.39248 | 7.54501 | 3.63914 | 0.00297999 | 0.99974 | 40.9893 | -3.11438 |
| 10552090 | Abpe | androgen binding protein epsilon | 0.433917 | 5.05221 | 3.63805 | 0.00298626 | 0.99974 | 41.9891 | -3.11499 |
| 10350341 | NA | NA | 0.452224 | 6.10585 | 3.62329 | 0.00307182 | 0.99974 | 42.9888 | -3.12312 |
| 10591125 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.396577 | 7.36804 | -3.60677 | 0.0031706 | 0.99974 | 43.9886 | -3.13225 |
| 10404783 | Edn1 | endothelin 1 | -0.3916 | 7.74929 | -3.59808 | 0.00322386 | 0.99974 | 44.9883 | -3.13707 |
| 10503172 | Chd7 | chromodomain helicase DNA binding protein 7 | 0.645144 | 6.97362 | 3.57197 | 0.00338937 | 0.99974 | 45.988 | -3.15159 |
| 10474541 | Nop10 | NOP10 ribonucleoprotein homolog (yeast) | 0.422793 | 8.44521 | 3.56776 | 0.00341686 | 0.99974 | 46.9878 | -3.15394 |
| 10428837 | NA | NA | 0.546331 | 6.70102 | 3.56711 | 0.00342109 | 0.99974 | 47.9875 | -3.1543 |
| 10400508 | Gm4805 | ribosomal protein L26 pseudogene | 0.402567 | 5.60751 | 3.56666 | 0.00342406 | 0.99974 | 48.9873 | -3.15456 |
| 10540296 | NA | NA | -0.503119 | 7.72644 | -3.55249 | 0.0035184 | 0.99974 | 49.987 | -3.16247 |
| 10376230 | G3bp1 | Ras-GTPase-activating protein SH3-domain binding protein 1 | 0.365858 | 7.37985 | 3.5457 | 0.0035646 | 0.99974 | 50.9868 | -3.16628 |
| 10536324 | Asb4 | ankyrin repeat and SOCS box-containing 4 | 0.374892 | 5.70842 | 3.53003 | 0.00367343 | 0.99974 | 51.9865 | -3.17507 |
| 10389732 | Gm15698 | transcription elongation factor B (SIII), polypeptide 2 pseudogene | 0.425684 | 6.74537 | 3.52498 | 0.00370922 | 0.99974 | 52.9862 | -3.17791 |
| 10472398 | Scn2a1 | sodium channel, voltage-gated, type II, alpha 1 | -0.386062 | 6.51037 | -3.51337 | 0.00379287 | 0.99974 | 53.986 | -3.18445 |
| 10516211 | Ndufs5 | NADH dehydrogenase (ubiquinone) Fe-S protein 5 | -0.395583 | 7.24281 | -3.51108 | 0.00380959 | 0.99974 | 54.9857 | -3.18574 |
| 10584315 | NA | NA | -0.585202 | 6.48167 | -3.50267 | 0.00387162 | 0.99974 | 55.9855 | -3.19049 |
| 10502785 | Gm10287 | predicted gene 10287 | -0.452025 | 6.5328 | -3.50081 | 0.00388551 | 0.99974 | 56.9852 | -3.19154 |
| 10546417 | Trh | thyrotropin releasing hormone | 0.44649 | 6.5496 | 3.49962 | 0.00389437 | 0.99974 | 57.9849 | -3.19221 |

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|----------|---------------|---|-----------|---------|----------|------------|---------|---------|----------|
| 10514830 | Ttc4 | tetratricopeptide repeat domain 4 | 0.387691 | 7.0289 | 3.49524 | 0.00392731 | 0.99974 | 58.9847 | -3.19469 |
| 10591129 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.467073 | 8.32561 | -3.49443 | 0.00393346 | 0.99974 | 59.9844 | -3.19515 |
| 10434698 | Fetub | fetuin beta | 0.392831 | 6.52341 | 3.48788 | 0.00398325 | 0.99974 | 60.9842 | -3.19886 |
| 10516658 | Ccdc28b | coiled coil domain containing 28B | 0.394252 | 7.80585 | 3.47691 | 0.00406813 | 0.99974 | 61.9839 | -3.20508 |
| 10523672 | NA | NA | -0.398128 | 5.94602 | -3.47381 | 0.00409248 | 0.99974 | 62.9836 | -3.20685 |
| 10515090 | Cdkn2c | cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4) | 0.365237 | 7.27382 | 3.46508 | 0.00416175 | 0.99974 | 63.9834 | -3.21181 |
| 10542241 | Tas2r120 | taste receptor, type 2, member 120 | 0.445924 | 5.29695 | 3.46484 | 0.00416362 | 0.99974 | 64.9831 | -3.21194 |
| 10550181 | NA | NA | 0.717979 | 5.7491 | 3.46288 | 0.0041794 | 0.99974 | 65.9829 | -3.21306 |
| 10347158 | NA | NA | -0.382758 | 5.48482 | -3.46287 | 0.00417948 | 0.99974 | 66.9826 | -3.21307 |
| 10470318 | NA | NA | 0.795559 | 6.55678 | 3.43196 | 0.00443552 | 0.99974 | 67.9823 | -3.23071 |
| 10591127 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.412256 | 6.70898 | -3.41844 | 0.00455244 | 0.99974 | 68.9821 | -3.23846 |
| 10489498 | Dbn2 | dysbindin (dystrobrevin binding protein 1) domain containing 2 | -0.378336 | 8.72572 | -3.41806 | 0.00455575 | 0.99974 | 69.9818 | -3.23868 |
| 10531256 | AU017193 | expressed sequence AU017193 | 0.479233 | 8.74699 | 3.41243 | 0.00460536 | 0.99974 | 70.9816 | -3.24191 |
| 10459335 | Fam38b | family with sequence similarity 38, member B | -0.41095 | 8.3969 | -3.40031 | 0.00471408 | 0.99974 | 71.9813 | -3.24888 |
| 10528909 | NA | NA | 0.412208 | 5.01144 | 3.39542 | 0.00475871 | 0.99974 | 72.981 | -3.2517 |
| 10491751 | NA | NA | 0.400933 | 4.86331 | 3.39481 | 0.00476422 | 0.99974 | 73.9808 | -3.25204 |
| 10404356 | Gm11362 | predicted gene 11362 | 0.444179 | 6.0253 | 3.39335 | 0.00477771 | 0.99974 | 74.9805 | -3.25289 |
| 10549588 | Rps9 | ribosomal protein S9 | 0.444991 | 8.481 | 3.39107 | 0.00479872 | 0.99974 | 75.9803 | -3.2542 |
| 10559720 | Rasl2-9 | RAS-like, family 2, locus 9 | 0.413693 | 5.2996 | 3.39005 | 0.00480815 | 0.99974 | 76.98 | -3.25479 |
| 10601901 | 1700014N06Rik | RIKEN cDNA 1700014N06 gene | -0.349988 | 6.25227 | -3.38543 | 0.00485108 | 0.99974 | 77.9797 | -3.25745 |
| 10423791 | 4930447A16Rik | RIKEN cDNA 4930447A16 gene | 0.38045 | 7.31427 | 3.3808 | 0.00489452 | 0.99974 | 78.9795 | -3.26013 |
| 10385361 | Ublcp1 | ubiquitin-like domain containing CTD phosphatase 1 | 0.456992 | 6.85859 | 3.37414 | 0.00495777 | 0.99974 | 79.9792 | -3.26398 |
| 10379820 | Acaca | acetyl-Coenzyme A carboxylase alpha | 0.392393 | 6.44395 | 3.37388 | 0.0049602 | 0.99974 | 80.979 | -3.26413 |
| 10502196 | Rpl34 | ribosomal protein L34 | 0.490493 | 7.7111 | 3.3708 | 0.00498972 | 0.99974 | 81.9787 | -3.26591 |
| 10449315 | 2900010M23Rik | RIKEN cDNA 2900010M23 gene | 0.409676 | 7.28556 | 3.36783 | 0.00501839 | 0.99974 | 82.9784 | -3.26763 |
| 10398436 | NA | NA | 0.421356 | 5.81077 | 3.35061 | 0.00518761 | 0.99974 | 83.9782 | -3.27761 |
| 10362701 | Ddo | D-aspartate oxidase | -0.397428 | 6.60611 | -3.34269 | 0.00526739 | 0.99974 | 84.9779 | -3.28221 |
| 10362464 | Sult3a1 | sulfotransferase family 3A, member 1 | 0.343831 | 4.09553 | 3.34178 | 0.00527663 | 0.99974 | 85.9777 | -3.28274 |
| 10558673 | Cyp2e1 | cytochrome P450, family 2, subfamily e, polypeptide 1 | -0.448347 | 6.49815 | -3.33683 | 0.00532719 | 0.99974 | 86.9774 | -3.28562 |
| 10555889 | Olfr663 | olfactory receptor 663 | -0.339602 | 5.40881 | -3.33062 | 0.00539126 | 0.99974 | 87.9771 | -3.28924 |
| 10502232 | Aimp1 | aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 | 0.420358 | 7.65227 | 3.32091 | 0.00549316 | 0.99974 | 88.9769 | -3.2949 |
| 10487787 | Gfra4 | glial cell line derived neurotrophic factor family receptor alpha 4 | -0.376214 | 6.40474 | -3.32074 | 0.0054949 | 0.99974 | 89.9766 | -3.295 |
| 10352867 | Plxna2 | plexin A2 | -0.396768 | 8.15347 | -3.31557 | 0.00554994 | 0.99974 | 90.9764 | -3.29802 |
| 10461150 | NA | NA | 0.676264 | 6.68441 | 3.31229 | 0.00558518 | 0.99974 | 91.9761 | -3.29993 |
| 10551250 | NA | NA | -0.495268 | 4.78869 | -3.30366 | 0.00567884 | 0.99974 | 92.9758 | -3.30498 |

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|----------|-----------------|---|-----------|---------|----------|------------|---------|---------|----------|
| 10447036 | NA | NA | 0.4435 | 4.47186 | 3.29427 | 0.00578258 | 0.99974 | 93.9756 | -3.31048 |
| 10524781 | Rab35 | RAB35, member RAS oncogene family | 0.374547 | 6.99902 | 3.28919 | 0.00583947 | 0.99974 | 94.9753 | -3.31346 |
| 10541751 | NA | NA | 0.426405 | 5.3623 | 3.28798 | 0.00585312 | 0.99974 | 95.9751 | -3.31417 |
| 10514323 | ENSMUSG00000073 | predicted gene, ENSMUSG00000073810 | -0.376156 | 7.66613 | -3.28205 | 0.00592043 | 0.99974 | 96.9748 | -3.31765 |
| 10582376 | NA | NA | -0.366388 | 8.24464 | -3.27238 | 0.00603187 | 0.99974 | 97.9745 | -3.32334 |
| 10453705 | Rab18 | RAB18, member RAS oncogene family | 0.423374 | 8.22825 | 3.26041 | 0.00617263 | 0.99974 | 98.9743 | -3.33038 |
| 10513145 | Ptpn3 | protein tyrosine phosphatase, non-receptor type 3 | 0.400102 | 8.02058 | 3.26035 | 0.00617341 | 0.99974 | 99.974 | -3.33042 |
| 10604100 | Ndufa1 | NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1 | 0.390411 | 8.35931 | 3.25491 | 0.00623848 | 0.99974 | 100.974 | -3.33363 |
| 10450892 | Olfr113 | olfactory receptor 113 | -0.335693 | 6.08885 | -3.25346 | 0.00625597 | 0.99974 | 101.974 | -3.33448 |
| 10424097 | Med30 | mediator complex subunit 30 | 0.372509 | 7.54471 | 3.24796 | 0.00632268 | 0.99974 | 102.973 | -3.33773 |
| 10351099 | Tnfsf18 | tumor necrosis factor (ligand) superfamily, member 18 | -0.375113 | 6.25688 | -3.24433 | 0.00636711 | 0.99974 | 103.973 | -3.33987 |
| 10368240 | Tcf21 | transcription factor 21 | 0.334582 | 8.22756 | 3.23481 | 0.00648497 | 0.99974 | 104.973 | -3.3455 |
| 10485773 | Olfr1290 | olfactory receptor 1290 | 0.514003 | 4.59214 | 3.2264 | 0.00659111 | 0.99974 | 105.972 | -3.35048 |
| 10542021 | Gm6487 | predicted gene 6487 | 0.470373 | 6.17294 | 3.22532 | 0.00660485 | 0.99974 | 106.972 | -3.35112 |
| 10356510 | lqca | IQ motif containing with AAA domain | 0.396733 | 7.56423 | 3.20793 | 0.00683005 | 0.99974 | 107.972 | -3.36144 |
| 10568480 | Nsmce4a | non-SMC element 4 homolog A (<i>S. cerevisiae</i>) | 0.337087 | 8.14697 | 3.20751 | 0.00683562 | 0.99974 | 108.972 | -3.36169 |
| 10356331 | NA | NA | 0.687704 | 4.04208 | 3.20567 | 0.00685995 | 0.99974 | 109.971 | -3.36279 |
| 10503613 | Gm11878 | predicted gene 11878 | 0.477952 | 6.73844 | 3.20552 | 0.00686187 | 0.99974 | 110.971 | -3.36287 |
| 10405994 | Med10 | mediator of RNA polymerase II transcription, subunit 10 homolog (NUT2, <i>S. cerevisiae</i>) | 0.342849 | 8.53708 | 3.20129 | 0.00691817 | 0.99974 | 111.971 | -3.36539 |
| 10561679 | Psmid8 | proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 | 0.379488 | 8.244 | 3.19992 | 0.00693648 | 0.99974 | 112.971 | -3.36621 |
| 10454601 | Tslp | thymic stromal lymphopoietin | 0.371879 | 6.33729 | 3.19984 | 0.00693746 | 0.99974 | 113.97 | -3.36625 |
| 10410919 | Gm5666 | predicted gene 5666 | 0.556695 | 5.77227 | 3.19816 | 0.00695998 | 0.99974 | 114.97 | -3.36725 |
| 10440136 | Olfr173 | olfactory receptor 173 | -0.365915 | 5.67032 | -3.19791 | 0.00696333 | 0.99974 | 115.97 | -3.3674 |
| 10373608 | Olfr766 | olfactory receptor 766 | 0.460026 | 4.22843 | 3.19457 | 0.00700836 | 0.99974 | 116.97 | -3.36939 |
| 10575144 | Nip7 | nuclear import 7 homolog (<i>S. cerevisiae</i>) | 0.450251 | 7.04271 | 3.19386 | 0.00701798 | 0.99974 | 117.969 | -3.36981 |
| 10501319 | Celsr2 | cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, <i>Drosophila</i>) | -0.332055 | 7.32907 | -3.19263 | 0.00703468 | 0.99974 | 118.969 | -3.37055 |
| 10437236 | B230307C23Rik | RIKEN cDNA B230307C23 gene | 0.502488 | 7.80415 | 3.18055 | 0.00720044 | 0.99974 | 119.969 | -3.37774 |
| 10374840 | NA | NA | -0.69131 | 6.77759 | -3.17482 | 0.00728045 | 0.99974 | 120.969 | -3.38117 |
| 10594513 | NA | NA | 0.563947 | 5.00056 | 3.17398 | 0.0072923 | 0.99974 | 121.968 | -3.38167 |
| 10385325 | Pttg1 | pituitary tumor-transforming gene 1 | 0.327658 | 7.56947 | 3.1733 | 0.00730184 | 0.99974 | 122.968 | -3.38207 |
| 10368041 | 3110003A17Rik | RIKEN cDNA 3110003A17 gene | 0.406874 | 8.9161 | 3.16779 | 0.00737984 | 0.99974 | 123.968 | -3.38537 |
| 10503017 | NA | NA | 0.352341 | 4.0535 | 3.16389 | 0.00743559 | 0.99974 | 124.968 | -3.3877 |
| 10421975 | 2410129H14Rik | RIKEN cDNA 2410129H14 gene | 0.34447 | 7.09636 | 3.16199 | 0.00746289 | 0.99974 | 125.967 | -3.38884 |
| 10349968 | Chi3l1 | chitinase 3-like 1 | -0.439299 | 9.42289 | -3.15833 | 0.00751579 | 0.99974 | 126.967 | -3.39103 |

| | | | | | | | | | |
|----------|---------------|--|-----------|---------|----------|------------|---------|---------|----------|
| 10578017 | Gm9911 | predicted gene 9911 | -0.392409 | 5.58299 | -3.15817 | 0.00751808 | 0.99974 | 127.967 | -3.39112 |
| 10532616 | Myo18b | myosin XVIIIb | 0.364004 | 6.72783 | 3.15432 | 0.0075741 | 0.99974 | 128.966 | -3.39343 |
| 10568432 | 1110007A13Rik | RIKEN cDNA 1110007A13 gene | -0.376506 | 6.66925 | -3.14894 | 0.00765311 | 0.99974 | 129.966 | -3.39665 |
| 10556139 | Olfr494 | olfactory receptor 494 | 0.335951 | 5.70156 | 3.14537 | 0.00770603 | 0.99974 | 130.966 | -3.39879 |
| 10542310 | Cdkn1b | cyclin-dependent kinase inhibitor 1B | 0.322743 | 7.4358 | 3.13861 | 0.00780712 | 0.99974 | 131.966 | -3.40285 |
| 10543054 | Shfm1 | split hand/foot malformation (ectrodactyly) type 1 | 0.413961 | 8.59829 | 3.13804 | 0.0078157 | 0.99974 | 132.965 | -3.40319 |
| 10458046 | D0H4S114 | DNA segment, human D4S114 | 0.357656 | 8.36456 | 3.13534 | 0.00785645 | 0.99974 | 133.965 | -3.40481 |
| 10390691 | Nr1d1 | nuclear receptor subfamily 1, group D, member 1 | -0.404887 | 9.01994 | -3.13424 | 0.00787319 | 0.99974 | 134.965 | -3.40547 |
| 10563949 | NA | NA | 0.410124 | 3.81363 | 3.12739 | 0.00797785 | 0.99974 | 135.965 | -3.40959 |
| 10534935 | Pilrb1 | paired immunoglobulin-like type 2 receptor beta 1 | 0.371337 | 6.47255 | 3.12591 | 0.00800073 | 0.99974 | 136.964 | -3.41048 |
| 10416850 | Scel | sciellin | -0.402916 | 9.35264 | -3.11044 | 0.00824302 | 0.99974 | 137.964 | -3.4198 |
| 10604891 | NA | NA | -0.342313 | 4.24703 | -3.11035 | 0.00824441 | 0.99974 | 138.964 | -3.41985 |
| 10373515 | Suox | sulfite oxidase | 0.34654 | 6.43636 | 3.10662 | 0.0083039 | 0.99974 | 139.964 | -3.4221 |
| 10601854 | Wbp5 | WW domain binding protein 5 | 0.438723 | 9.82105 | 3.09855 | 0.00843416 | 0.99974 | 140.963 | -3.42697 |
| 10595371 | Hmgn3 | high mobility group nucleosomal binding domain 3 | 0.358321 | 6.92778 | 3.09474 | 0.00849645 | 0.99974 | 141.963 | -3.42927 |
| 10348556 | Ube2f | ubiquitin-conjugating enzyme E2F (putative) | 0.407006 | 5.23026 | 3.09457 | 0.00849924 | 0.99974 | 142.963 | -3.42938 |
| 10580450 | NA | NA | -0.471544 | 6.70841 | -3.09242 | 0.00853445 | 0.99974 | 143.963 | -3.43067 |
| 10509568 | Camk2n1 | calcium/calmodulin-dependent protein kinase II inhibitor 1 | 0.319388 | 8.53864 | 3.09156 | 0.0085487 | 0.99974 | 144.962 | -3.4312 |
| 10428089 | Nipal2 | NIPA-like domain containing 2 | -0.369195 | 7.76589 | -3.09041 | 0.00856764 | 0.99974 | 145.962 | -3.43189 |
| 10543017 | Pdk4 | pyruvate dehydrogenase kinase, isoenzyme 4 | -0.389871 | 7.65304 | -3.09017 | 0.00857166 | 0.99974 | 146.962 | -3.43204 |
| 10494910 | Bcas2 | breast carcinoma amplified sequence 2 | 0.327508 | 7.74874 | 3.08199 | 0.00870788 | 0.99974 | 147.962 | -3.43698 |
| 10588464 | NA | NA | 0.398114 | 6.10151 | 3.06995 | 0.00891243 | 0.99974 | 148.961 | -3.44428 |
| 10345077 | Khdc1a | KH domain containing 1A | 0.432088 | 4.88996 | 3.06804 | 0.00894524 | 0.99974 | 149.961 | -3.44543 |
| 10439790 | Trat1 | T cell receptor associated transmembrane adaptor 1 | -0.426431 | 5.16279 | -3.06795 | 0.00894672 | 0.99974 | 150.961 | -3.44548 |
| 10358541 | Hmcn1 | hemicentin 1 | -0.504266 | 7.82509 | -3.06499 | 0.00899796 | 0.99974 | 151.961 | -3.44728 |
| 10531987 | Gbp4 | guanylate binding protein 4 | -0.359049 | 8.99864 | -3.06323 | 0.0090286 | 0.99974 | 152.96 | -3.44835 |
| 10560370 | Psg26 | pregnancy-specific glycoprotein 26 | 0.394252 | 5.04822 | 3.06314 | 0.00903014 | 0.99974 | 153.96 | -3.4484 |
| 10605499 | 3426406K10Rik | RIKEN cDNA 3426406K10 gene | 0.325641 | 3.72933 | 3.06222 | 0.00904612 | 0.99974 | 154.96 | -3.44896 |
| 10584194 | Srpr | signal recognition particle receptor ('docking protein') | 0.349979 | 7.75 | 3.06064 | 0.00907383 | 0.99974 | 155.959 | -3.44992 |
| 10415013 | NA | NA | -0.367148 | 10.4464 | -3.05619 | 0.00915195 | 0.99974 | 156.959 | -3.45262 |
| 10511734 | Cnbd1 | cyclic nucleotide binding domain containing 1 | -0.344721 | 5.06365 | -3.05365 | 0.00919688 | 0.99974 | 157.959 | -3.45417 |
| 10467258 | Myof | myoferlin | -0.386663 | 8.79882 | -3.05333 | 0.00920245 | 0.99974 | 158.959 | -3.45436 |
| 10585377 | NA | NA | -0.320668 | 8.42251 | -3.05201 | 0.009226 | 0.99974 | 159.958 | -3.45516 |
| 10556158 | Olfr508 | olfactory receptor 508 | -0.441725 | 5.55996 | -3.04825 | 0.00929305 | 0.99974 | 160.958 | -3.45745 |

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|----------|---------------|--|-----------|---------|----------|------------|---------|---------|----------|
| 10591192 | Olf847 | olfactory receptor 847 | 0.367351 | 4.44963 | 3.04263 | 0.00939427 | 0.99974 | 161.958 | -3.46086 |
| 10361021 | NA | NA | 0.329993 | 6.3512 | 3.04138 | 0.00941689 | 0.99974 | 162.958 | -3.46162 |
| 10529732 | Hs3st1 | heparan sulfate (glucosamine) 3-O-sulfotransferase 1 | 0.339965 | 6.87133 | 3.04126 | 0.00941911 | 0.99974 | 163.957 | -3.4617 |
| 10577992 | NA | NA | 0.351906 | 4.20975 | 3.04108 | 0.00942237 | 0.99974 | 164.957 | -3.46181 |
| 10548314 | Klrb1b | killer cell lectin-like receptor subfamily B member 1B | -0.332795 | 6.26913 | -3.04079 | 0.00942767 | 0.99974 | 165.957 | -3.46198 |
| 10538706 | Mmrn1 | multimerin 1 | -0.349114 | 6.46271 | -3.0346 | 0.00954074 | 0.99974 | 166.957 | -3.46575 |
| 10354275 | 1700029F09Rik | RIKEN cDNA 1700029F09 gene | 0.345624 | 6.89791 | 3.02995 | 0.00962671 | 0.99974 | 167.956 | -3.46859 |
| 10584580 | NA | NA | 0.392751 | 10.2492 | 3.02904 | 0.00964367 | 0.99974 | 168.956 | -3.46914 |
| 10399874 | Bcap29 | B-cell receptor-associated protein 29 | 0.340392 | 8.83204 | 3.02887 | 0.00964677 | 0.99974 | 169.956 | -3.46924 |
| 10519913 | Magi2 | membrane associated guanylate kinase, WW and PDZ domain containing 2 | 0.335489 | 6.70444 | 3.02867 | 0.00965042 | 0.99974 | 170.956 | -3.46936 |
| 10504534 | Frmpd1 | FERM and PDZ domain containing 1 | -0.329539 | 6.4424 | -3.02799 | 0.00966303 | 0.99974 | 171.955 | -3.46978 |
| 10541678 | C1r | complement component 1, r subcomponent | -0.326164 | 7.08968 | -3.02759 | 0.00967064 | 0.99974 | 172.955 | -3.47003 |
| 10437629 | Grin2a | glutamate receptor, ionotropic, NMDA2A (epsilon 1) | 0.376081 | 5.77207 | 3.02457 | 0.00972706 | 0.99974 | 173.955 | -3.47187 |
| 10524060 | Gm10417 | predicted gene 10417 | 0.422505 | 6.45305 | 3.02091 | 0.00979576 | 0.99974 | 174.955 | -3.47409 |
| 10415645 | Mrp63 | mitochondrial ribosomal protein 63 | 0.335667 | 7.53369 | 3.01733 | 0.00986364 | 0.99974 | 175.954 | -3.47628 |
| 10600476 | Gm4989 | predicted gene 4989 | 0.357327 | 6.53417 | 3.01725 | 0.00986511 | 0.99974 | 176.954 | -3.47633 |
| 10382104 | NA | NA | 1.05795 | 6.86346 | 3.0153 | 0.00990237 | 0.99974 | 177.954 | -3.47752 |
| 10401630 | Acyp1 | acylphosphatase 1, erythrocyte (common) type | 0.369362 | 7.43618 | 3.00728 | 0.0100566 | 0.99974 | 178.953 | -3.48242 |
| 10476512 | Snap25 | synaptosomal-associated protein 25 | -0.340495 | 6.57843 | -3.00617 | 0.010078 | 0.99974 | 179.953 | -3.4831 |
| 10604499 | Olf1323 | olfactory receptor 1323 | -0.33169 | 5.68804 | -3.00197 | 0.0101599 | 0.99974 | 180.953 | -3.48567 |
| 10466266 | Stx3 | syntaxin 3 | -0.381018 | 6.58632 | -2.99998 | 0.010199 | 0.99974 | 181.953 | -3.48688 |
| 10583465 | Ubl5 | ubiquitin-like 5 | 0.351284 | 9.3659 | 2.99866 | 0.0102249 | 0.99974 | 182.952 | -3.48769 |
| 10365983 | Lum | lumican | 0.414583 | 6.22349 | 2.99819 | 0.0102342 | 0.99974 | 183.952 | -3.48798 |
| 10469046 | Phyh | phytanoyl-CoA hydroxylase | 0.32388 | 8.5517 | 2.9917 | 0.0103629 | 0.99974 | 184.952 | -3.49195 |
| 10503374 | NA | NA | -0.323397 | 5.84588 | -2.99109 | 0.0103751 | 0.99974 | 185.952 | -3.49232 |
| 10484630 | Olf1090 | olfactory receptor 1090 | 0.354311 | 4.84887 | 2.98562 | 0.0104851 | 0.99974 | 186.951 | -3.49568 |
| 10585988 | Myo9a | myosin IXa | -0.670895 | 9.42786 | -2.98546 | 0.0104882 | 0.99974 | 187.951 | -3.49577 |
| 10348376 | Heatr7b1 | HEAT repeat containing 7B1 | 0.315009 | 6.27446 | 2.98063 | 0.0105862 | 0.99974 | 188.951 | -3.49873 |
| 10368229 | Tbpl1 | TATA box binding protein-like 1 | 0.324927 | 8.01357 | 2.97703 | 0.0106598 | 0.99974 | 189.951 | -3.50094 |
| 10356154 | Sphkap | SPHK1 interactor, AKAP domain containing | 0.314051 | 5.85424 | 2.97696 | 0.0106614 | 0.99974 | 190.95 | -3.50099 |
| 10436600 | NA | NA | 0.473024 | 6.81966 | 2.97662 | 0.0106684 | 0.99974 | 191.95 | -3.50119 |
| 10423834 | Gm7194 | predicted gene 7194 | 0.402866 | 4.58921 | 2.97544 | 0.0106925 | 0.99974 | 192.95 | -3.50191 |
| 10593225 | Zbtb16 | zinc finger and BTB domain containing 16 | -0.528724 | 8.54308 | -2.97337 | 0.0107353 | 0.99974 | 193.95 | -3.50319 |
| 10555903 | Olf676 | olfactory receptor 676 | -0.318488 | 5.1792 | -2.97153 | 0.0107733 | 0.99974 | 194.949 | -3.50431 |
| 10527959 | NA | NA | -0.299588 | 7.19192 | -2.97057 | 0.0107934 | 0.99974 | 195.949 | -3.50491 |

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|----------|---------------|--|-----------|---------|----------|-----------|---------|---------|----------|
| 10599680 | 3830403N18Rik | RIKEN cDNA 3830403N18 gene | 0.528995 | 4.68024 | 2.9665 | 0.0108782 | 0.99974 | 196.949 | -3.5074 |
| 10393662 | Nptx1 | neuronal pentraxin 1 | 0.310032 | 6.80638 | 2.9665 | 0.0108782 | 0.99974 | 197.949 | -3.5074 |
| 10440794 | 2610039C10Rik | RIKEN cDNA 2610039C10 gene | 0.360794 | 7.04399 | 2.96593 | 0.0108902 | 0.99974 | 198.948 | -3.50775 |
| 10572786 | Ap1m1 | adaptor-related protein complex AP-1, mu subunit 1 | 0.331736 | 7.5726 | 2.9639 | 0.0109329 | 0.99974 | 199.948 | -3.509 |
| 10387733 | Eif5a | eukaryotic translation initiation factor 5A | -0.339 | 7.79341 | -2.9595 | 0.0110259 | 0.99974 | 200.948 | -3.51171 |
| 10532989 | Gatc | glutamyl-tRNA(Gln) amidotransferase, subunit C homolog (bacterial) | -0.326756 | 8.1793 | -2.9526 | 0.0111733 | 0.99974 | 201.948 | -3.51595 |
| 10544583 | Gimap6 | GTPase, IMAP family member 6 | 0.330097 | 8.35862 | 2.95113 | 0.0112049 | 0.99974 | 202.947 | -3.51685 |
| 10404010 | V1rh5 | vomeronasal 1 receptor, H5 | 0.358032 | 4.5236 | 2.95062 | 0.0112158 | 0.99974 | 203.947 | -3.51716 |
| 10375941 | Vdac1 | voltage-dependent anion channel 1 | 0.445109 | 8.33665 | 2.94992 | 0.011231 | 0.99974 | 204.947 | -3.51759 |
| 10416533 | Ccdc122 | coiled-coil domain containing 122 | 0.364077 | 6.21623 | 2.94346 | 0.0113714 | 0.99974 | 205.946 | -3.52157 |
| 10395594 | NA | NA | 0.319375 | 5.57383 | 2.94279 | 0.0113863 | 0.99974 | 206.946 | -3.52199 |
| 10532538 | Asphd2 | aspartate beta-hydroxylase domain containing 2 | -0.316676 | 6.30671 | -2.94113 | 0.0114227 | 0.99974 | 207.946 | -3.52301 |
| 10566678 | Olf485 | olfactory receptor 485 | 0.327017 | 6.0529 | 2.94011 | 0.011445 | 0.99974 | 208.946 | -3.52363 |
| 10535849 | Slc46a3 | solute carrier family 46, member 3 | 0.328978 | 7.28596 | 2.9395 | 0.0114584 | 0.99974 | 209.945 | -3.52401 |
| 10405633 | Ntrk2 | neurotrophic tyrosine kinase, receptor, type 2 | -0.337763 | 6.77365 | -2.93849 | 0.0114809 | 0.99974 | 210.945 | -3.52464 |
| 10601846 | 2900062L11Rik | signal peptidase complex subunit 3 homolog pseudogene | 0.366684 | 6.17339 | 2.9333 | 0.011596 | 0.99974 | 211.945 | -3.52783 |
| 10434747 | Adipoq | adiponectin, C1Q and collagen domain containing | -0.388314 | 6.32967 | -2.93221 | 0.0116203 | 0.99974 | 212.945 | -3.5285 |
| 10535426 | Spdyb | speedy homolog B (Drosophila) | 0.333991 | 6.75043 | 2.92391 | 0.0118074 | 0.99974 | 213.944 | -3.53362 |
| 10575249 | Txn14b | thioredoxin-like 4B | 0.360869 | 7.01972 | 2.92369 | 0.0118124 | 0.99974 | 214.944 | -3.53376 |
| 10482846 | Ccdc148 | coiled-coil domain containing 148 | 0.302247 | 5.95653 | 2.92304 | 0.0118271 | 0.99974 | 215.944 | -3.53416 |
| 10407454 | Gm9973 | predicted gene 9973 | 0.342904 | 5.07028 | 2.92208 | 0.0118491 | 0.99974 | 216.944 | -3.53476 |
| 10472570 | Ppig | peptidyl-prolyl isomerase G (cyclophilin G) | -0.376277 | 9.33227 | -2.92128 | 0.0118672 | 0.99974 | 217.943 | -3.53525 |
| 10569020 | Ifitm6 | interferon induced transmembrane protein 6 | 0.368111 | 5.94734 | 2.92106 | 0.0118724 | 0.99974 | 218.943 | -3.53539 |
| 10471519 | Tor2a | torsin family 2, member A | -0.304024 | 6.69972 | -2.91786 | 0.0119457 | 0.99974 | 219.943 | -3.53736 |
| 10483865 | Fkbp7 | FK506 binding protein 7 | 0.339251 | 8.31528 | 2.91777 | 0.0119476 | 0.99974 | 220.943 | -3.53741 |
| 10436046 | NA | NA | -0.316505 | 5.91363 | -2.91754 | 0.011953 | 0.99974 | 221.942 | -3.53756 |
| 10346882 | Adam23 | a disintegrin and metallopeptidase domain 23 | -0.361632 | 7.14339 | -2.91291 | 0.0120599 | 0.99974 | 222.942 | -3.54042 |
| 10571364 | 1700016D18Rik | RIKEN cDNA 1700016D18 gene | -0.349407 | 5.02613 | -2.91151 | 0.0120923 | 0.99974 | 223.942 | -3.54128 |
| 10570397 | Cdc16 | CDC16 cell division cycle 16 homolog (S. cerevisiae) | 0.292675 | 7.31836 | 2.8998 | 0.0123678 | 0.99974 | 224.942 | -3.54852 |
| 10447429 | Gm4832 | predicted gene 4832 | 0.304191 | 8.6452 | 2.89788 | 0.0124136 | 0.99974 | 225.941 | -3.54971 |
| 10554445 | Prc1 | protein regulator of cytokinesis 1 | 0.313747 | 7.24117 | 2.8836 | 0.012759 | 0.99974 | 226.941 | -3.55856 |
| 10372595 | NA | NA | 0.442481 | 5.06455 | 2.88049 | 0.0128355 | 0.99974 | 227.941 | -3.56049 |
| 10572757 | Rab8a | RAB8A, member RAS oncogene family | 0.369842 | 8.77382 | 2.88009 | 0.0128454 | 0.99974 | 228.941 | -3.56074 |

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|-----------------|------------------|--|------------------|----------------|-----------------|------------------|----------------|----------------|-----------------|
| 10358140 | Igfn1 | immunoglobulin-like and fibronectin type III domain containing 1 | -0.354352 | 6.62017 | -2.87821 | 0.0128918 | 0.99974 | 229.94 | -3.5619 |
| 10529979 | Ppargc1a | peroxisome proliferative activated receptor, gamma, coactivator 1 alpha | -0.362282 | 8.08211 | -2.87599 | 0.0129469 | 0.99974 | 230.94 | -3.56327 |
| 10451547 | Gm16494 | predicted gene 16494 | 0.410902 | 7.87201 | 2.8743 | 0.0129892 | 0.99974 | 231.94 | -3.56433 |
| 10591120 | Fat3 | FAT tumor suppressor homolog 3 (Drosophila) | -0.519333 | 6.94637 | -2.87211 | 0.0130438 | 0.99974 | 232.939 | -3.56568 |
| 10453250 | NA | NA | 0.511807 | 5.96561 | 2.8715 | 0.0130592 | 0.99974 | 233.939 | -3.56606 |
| 10606174 | Nap1l2 | nucleosome assembly protein 1-like 2 | 0.305634 | 4.94573 | 2.87114 | 0.0130682 | 0.99974 | 234.939 | -3.56629 |
| 10555323 | P4ha3 | procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III | -0.312157 | 6.09674 | -2.86682 | 0.0131771 | 0.99974 | 235.939 | -3.56897 |
| 10484514 | Olf993 | olfactory receptor 993 | -0.42357 | 5.28773 | -2.8665 | 0.0131853 | 0.99974 | 236.938 | -3.56917 |
| 10578423 | LOC100045396 | hypothetical protein LOC100045396 | -0.350349 | 6.96776 | -2.86351 | 0.0132612 | 0.99974 | 237.938 | -3.57103 |
| 10561918 | NA | NA | -0.324304 | 6.32912 | -2.86257 | 0.0132851 | 0.99974 | 238.938 | -3.57161 |
| 10515519 | Atp6v0b | ATPase, H+ transporting, lysosomal V0 subunit B | 0.309161 | 7.88358 | 2.86044 | 0.0133397 | 0.99974 | 239.938 | -3.57293 |
| 10498160 | Ufm1 | ubiquitin-fold modifier 1 | 0.384141 | 6.99759 | 2.85864 | 0.0133858 | 0.99974 | 240.937 | -3.57405 |
| 10358191 | Camsap1l1 | calmodulin regulated spectrin-associated protein 1-like 1 | -0.29952 | 9.76029 | -2.85705 | 0.0134268 | 0.99974 | 241.937 | -3.57504 |
| 10604974 | Cetn2 | centrin 2 | 0.399256 | 6.44102 | 2.85552 | 0.0134662 | 0.99974 | 242.937 | -3.57599 |
| 10414965 | NA | NA | -0.488683 | 4.58819 | -2.85312 | 0.0135284 | 0.99974 | 243.937 | -3.57748 |
| 10431915 | Slc38a4 | solute carrier family 38, member 4 | -0.335483 | 6.4855 | -2.85103 | 0.0135829 | 0.99974 | 244.936 | -3.57878 |
| 10531869 | Mapk10 | mitogen-activated protein kinase 10 | -0.334928 | 6.36566 | -2.84993 | 0.0136116 | 0.99974 | 245.936 | -3.57947 |
| 10380472 | NA | NA | 0.400172 | 5.4583 | 2.84917 | 0.0136314 | 0.99974 | 246.936 | -3.57994 |
| 10484689 | Olf1137 | olfactory receptor 1137 | 0.350737 | 5.24605 | 2.84821 | 0.0136566 | 0.99974 | 247.936 | -3.58054 |
| 10428698 | Sntb1 | syntrophin, basic 1 | -0.301502 | 9.03737 | -2.84579 | 0.0137201 | 0.99974 | 248.935 | -3.58204 |
| 10473505 | Olf1076 | olfactory receptor 1076 | 0.292592 | 5.3971 | 2.84236 | 0.0138108 | 0.99974 | 249.935 | -3.58417 |
| 10606902 | Tmsb15b1-Tmsb15b | Tmsb15b1-Tmsb15b2 readthrough transcript | 0.422315 | 5.37541 | 2.84173 | 0.0138275 | 0.99974 | 250.935 | -3.58457 |
| 10450731 | H2-t9 | MHC class Ib T9 | -0.345891 | 6.93298 | -2.84009 | 0.0138712 | 0.99974 | 251.935 | -3.58559 |
| 10356339 | Pde6d | phosphodiesterase 6D, cGMP-specific, rod, delta | 0.312549 | 7.95546 | 2.83849 | 0.0139138 | 0.99974 | 252.934 | -3.58658 |
| 10351400 | Fam78b | family with sequence similarity 78, member B | -0.341517 | 7.14479 | -2.83588 | 0.0139838 | 0.99974 | 253.934 | -3.58821 |
| 10403057 | LOC641089 | similar to Ig heavy chain V region BCL1 precursor | -0.501974 | 5.3304 | -2.8331 | 0.0140586 | 0.99974 | 254.934 | -3.58994 |
| 10493860 | Sprr2b | small proline-rich protein 2B | -0.390935 | 5.75445 | -2.83208 | 0.0140861 | 0.99974 | 255.933 | -3.59058 |
| 10492165 | NA | NA | 0.342739 | 5.37426 | 2.82707 | 0.0142222 | 0.99974 | 256.933 | -3.5937 |
| 10445839 | Kif6 | kinesin family member 6 | -0.341903 | 6.63841 | -2.82671 | 0.0142319 | 0.99974 | 257.933 | -3.59392 |
| 10513266 | Olf267 | olfactory receptor 267 | -0.29826 | 6.49039 | -2.82666 | 0.0142332 | 0.99974 | 258.933 | -3.59395 |
| 10603525 | Ssx2 | synovial sarcoma, X member B, breakpoint 2 | 0.443822 | 5.61447 | 2.8264 | 0.0142404 | 0.99974 | 259.932 | -3.59412 |

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|----------|---------------|--|-----------|---------|----------|-----------|---------|---------|----------|
| 10548450 | Klra5 | killer cell lectin-like receptor, subfamily A, member 5 | -0.506346 | 4.92316 | -2.82497 | 0.0142795 | 0.99974 | 260.932 | -3.59501 |
| 10579744 | Large | like-glycosyltransferase | -0.289459 | 7.45578 | -2.82469 | 0.0142872 | 0.99974 | 261.932 | -3.59518 |
| 10344809 | Cspp1 | centrosome and spindle pole associated protein 1 | -0.374778 | 9.34257 | -2.82389 | 0.0143091 | 0.99974 | 262.932 | -3.59568 |
| 10548892 | Arhgdib | Rho, GDP dissociation inhibitor (GDI) beta | 0.361514 | 10.1141 | 2.82282 | 0.0143386 | 0.99974 | 263.931 | -3.59635 |
| 10422176 | D130079A08Rik | RIKEN cDNA D130079A08 gene | -0.34467 | 6.19417 | -2.82112 | 0.0143853 | 0.99974 | 264.931 | -3.59741 |
| 10525343 | Myl2 | myosin, light polypeptide 2, regulatory, cardiac, slow | 0.309127 | 6.66144 | 2.81747 | 0.0144865 | 0.99974 | 265.931 | -3.59969 |
| 10357875 | Btg2 | B-cell translocation gene 2, anti-proliferative | 0.364209 | 9.50337 | 2.81732 | 0.0144908 | 0.99974 | 266.931 | -3.59978 |
| 10562667 | NA | NA | 0.333779 | 7.78448 | 2.81583 | 0.0145321 | 0.99974 | 267.93 | -3.60071 |
| 10433885 | Cebpd | CCAAT/enhancer binding protein (C/EBP), delta | 0.285619 | 7.40634 | 2.81567 | 0.0145367 | 0.99974 | 268.93 | -3.60081 |
| 10367120 | NA | NA | 0.376142 | 6.4664 | 2.81564 | 0.0145376 | 0.99974 | 269.93 | -3.60083 |
| 10419223 | Fermt2 | fermitin family homolog 2 (Drosophila) | -0.327999 | 10.0418 | -2.81472 | 0.014563 | 0.99974 | 270.93 | -3.6014 |
| 10435305 | Itgb5 | integrin beta 5 | 0.311275 | 8.68807 | 2.8127 | 0.0146196 | 0.99974 | 271.929 | -3.60266 |
| 10451291 | Slc22a7 | solute carrier family 22 (organic anion transporter), member 7 | -0.374063 | 6.45895 | -2.8118 | 0.014645 | 0.99974 | 272.929 | -3.60323 |
| 10416273 | Phyhip | phytanoyl-CoA hydroxylase interacting protein | 0.304964 | 6.45889 | 2.81152 | 0.0146529 | 0.99974 | 273.929 | -3.6034 |
| 10578796 | 4930431L04Rik | RIKEN cDNA 4930431L04 gene | 0.299404 | 5.68547 | 2.80756 | 0.0147645 | 0.99974 | 274.929 | -3.60587 |
| 10594248 | Rplp1 | ribosomal protein, large, P1 | 0.399882 | 10.4469 | 2.80605 | 0.0148072 | 0.99974 | 275.928 | -3.60681 |
| 10550795 | Nlrp5 | NLR family, pyrin domain containing 5 | 0.296744 | 6.26087 | 2.79743 | 0.0150541 | 0.99974 | 276.928 | -3.6122 |
| 10565341 | Gm6155 | predicted gene 6155 | 0.379283 | 7.8464 | 2.7959 | 0.0150982 | 0.99974 | 277.928 | -3.61316 |
| 10362899 | F830002L21Rik | RIKEN cDNA F830002L21 gene | -0.326668 | 7.73264 | -2.79047 | 0.0152561 | 0.99974 | 278.928 | -3.61655 |
| 10395520 | Imp2l | IMP2 inner mitochondrial membrane peptidase-like (<i>S. cerevisiae</i>) | -0.330842 | 6.00597 | -2.78995 | 0.0152714 | 0.99974 | 279.927 | -3.61688 |
| 10564448 | Asb7 | ankyrin repeat and SOCS box-containing 7 | 0.363203 | 6.88298 | 2.78945 | 0.0152861 | 0.99974 | 280.927 | -3.61719 |
| 10508135 | Trappc3 | trafficking protein particle complex 3 | 0.345088 | 9.17337 | 2.78902 | 0.0152987 | 0.99974 | 281.927 | -3.61746 |
| 10563959 | NA | NA | 0.461204 | 4.38361 | 2.78834 | 0.0153186 | 0.99974 | 282.926 | -3.61789 |
| 10540812 | Tatdn2 | TatD DNase domain containing 2 | 0.311714 | 7.68015 | 2.7882 | 0.0153226 | 0.99974 | 283.926 | -3.61797 |
| 10481114 | Abo | ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase, transferase B, alpha 1-3-galactosyltransferase) | 0.349993 | 5.8814 | 2.78706 | 0.0153563 | 0.99974 | 284.926 | -3.61869 |
| 10475245 | Ubr1 | ubiquitin protein ligase E3 component n-recognin 1 | -0.318027 | 8.16752 | -2.78682 | 0.0153633 | 0.99974 | 285.926 | -3.61884 |
| 10466366 | Olf1499 | olfactory receptor 1499 | 0.32387 | 4.97297 | 2.78603 | 0.0153867 | 0.99974 | 286.925 | -3.61933 |
| 10535852 | Slc7a1 | solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 | -0.302577 | 7.50582 | -2.78586 | 0.0153915 | 0.99974 | 287.925 | -3.61944 |

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|----------|---------------|--|-----------|---------|----------|-----------|---------|---------|----------|
| 10473602 | Olf1189 | olfactory receptor 1189 | -0.297765 | 5.13049 | -2.78472 | 0.0154253 | 0.99974 | 288.925 | -3.62015 |
| 10557560 | Cdpt | CDP-diacylglycerol--inositol 3-phosphatidyltransferase (phosphatidylinositol synthase) | 0.308977 | 7.01588 | 2.77983 | 0.0155703 | 0.99974 | 289.925 | -3.62321 |
| 10535575 | Gm6272 | predicted gene 6272 | 0.307523 | 8.1249 | 2.77704 | 0.015654 | 0.99974 | 290.924 | -3.62496 |
| 10545932 | Snrnp27 | small nuclear ribonucleoprotein 27 (U4/U6.U5) | 0.314038 | 8.12079 | 2.77671 | 0.0156637 | 0.99974 | 291.924 | -3.62516 |
| 10514388 | NA | NA | 0.457991 | 3.49977 | 2.77644 | 0.0156718 | 0.99974 | 292.924 | -3.62533 |
| 10376196 | Hint1 | histidine triad nucleotide binding protein 1 | 0.304893 | 9.16877 | 2.77385 | 0.0157497 | 0.99974 | 293.924 | -3.62695 |
| 10450482 | NA | NA | 0.386457 | 6.90366 | 2.77365 | 0.0157558 | 0.99974 | 294.923 | -3.62708 |
| 10491605 | 4932438A13Rik | RIKEN cDNA 4932438A13 gene | -0.377391 | 8.24483 | -2.7733 | 0.0157663 | 0.99974 | 295.923 | -3.6273 |
| 10376887 | Snord49a | small nucleolar RNA, C/D box 49A | 0.397535 | 6.19869 | 2.76357 | 0.0160628 | 0.99974 | 296.923 | -3.6334 |
| 10548547 | Gm6600 | predicted gene 6600 | 0.392041 | 5.86945 | 2.76307 | 0.0160785 | 0.99974 | 297.923 | -3.63372 |
| 10566810 | Nrip3 | nuclear receptor interacting protein 3 | -0.332061 | 6.36826 | -2.76291 | 0.0160833 | 0.99974 | 298.922 | -3.63381 |
| 10492448 | Ptx3 | pentraxin related gene | 0.35197 | 6.84198 | 2.7622 | 0.0161052 | 0.99974 | 299.922 | -3.63426 |
| 10572046 | NA | NA | 0.461166 | 3.18021 | 2.7614 | 0.0161298 | 0.99974 | 300.922 | -3.63476 |
| 10551264 | Cyp2b19 | cytochrome P450, family 2, subfamily b, polypeptide 19 | -0.315654 | 6.23883 | -2.76085 | 0.016147 | 0.99974 | 301.922 | -3.63511 |
| 10604930 | LOC100044102 | similar to syndecan-1 | -0.312489 | 6.90818 | -2.76029 | 0.0161641 | 0.99974 | 302.921 | -3.63545 |
| 10597648 | Myd88 | myeloid differentiation primary response gene 88 | 0.285525 | 7.39895 | 2.7586 | 0.0162164 | 0.99974 | 303.921 | -3.63651 |
| 10448184 | 4930515G13Rik | RIKEN cDNA 4930515G13 gene | 0.326428 | 6.26501 | 2.75714 | 0.016262 | 0.99974 | 304.921 | -3.63743 |
| 10400479 | Nkx2-9 | NK2 transcription factor related, locus 9 (Drosophila) | -0.305865 | 6.55204 | -2.75675 | 0.0162742 | 0.99974 | 305.921 | -3.63768 |
| 10594426 | Zwilch | Zwilch, kinetochore associated, homolog (Drosophila) | -0.289387 | 5.91078 | -2.75567 | 0.0163077 | 0.99974 | 306.92 | -3.63835 |
| 10512093 | Ndufb6 | NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6 | 0.327167 | 8.29136 | 2.75554 | 0.0163118 | 0.99974 | 307.92 | -3.63843 |
| 10496357 | NA | NA | 0.311912 | 4.672 | 2.7535 | 0.0163755 | 0.99974 | 308.92 | -3.63971 |
| 10520371 | Prr8 | proline rich 8 | 0.322029 | 9.6966 | 2.75143 | 0.0164408 | 0.99974 | 309.919 | -3.64102 |
| 10541188 | NA | NA | -0.326433 | 7.79645 | -2.75104 | 0.016453 | 0.99974 | 310.919 | -3.64126 |
| 10361799 | Adat2 | adenosine deaminase, tRNA-specific 2, TAD2 homolog (S. cerevisiae) | 0.310254 | 7.14309 | 2.75091 | 0.0164569 | 0.99974 | 311.919 | -3.64134 |
| 10597960 | Slc6a20a | solute carrier family 6 (neurotransmitter transporter), member 20A | -0.28156 | 7.59733 | -2.75064 | 0.0164654 | 0.99974 | 312.919 | -3.64151 |
| 10540785 | 6720456B07Rik | RIKEN cDNA 6720456B07 gene | 0.334452 | 7.95311 | 2.74971 | 0.0164949 | 0.99974 | 313.918 | -3.64209 |
| 10407211 | Ppap2a | phosphatidic acid phosphatase type 2A | -0.343568 | 8.57041 | -2.74948 | 0.016502 | 0.99974 | 314.918 | -3.64224 |
| 10417144 | Timm8a2 | translocase of inner mitochondrial membrane 8 homolog a2 (yeast) | -0.280813 | 5.85967 | -2.74852 | 0.0165325 | 0.99974 | 315.918 | -3.64284 |
| 10501020 | Chi3l3 | chitinase 3-like 3 | 0.347228 | 10.1303 | 2.74818 | 0.0165431 | 0.99974 | 316.918 | -3.64305 |
| 10504912 | NA | NA | 0.353118 | 8.35521 | 2.74818 | 0.0165431 | 0.99974 | 317.917 | -3.64305 |
| 10410576 | Cep72 | centrosomal protein 72 | -0.306078 | 6.16507 | -2.74722 | 0.0165735 | 0.99974 | 318.917 | -3.64365 |

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|----------|---------------|--|-----------|---------|----------|-----------|---------|---------|----------|
| 10427910 | Fam105b | family with sequence similarity 105, member B | 0.342417 | 7.63535 | 2.7425 | 0.0167238 | 0.99974 | 319.917 | -3.64662 |
| 10391744 | Gpatch8 | G patch domain containing 8 | -0.501299 | 7.57807 | -2.74162 | 0.016752 | 0.99974 | 320.917 | -3.64717 |
| 10439289 | BC117090 | cDNA sequence BC1179090 | 0.343877 | 5.4424 | 2.74006 | 0.0168022 | 0.99974 | 321.916 | -3.64815 |
| 10386703 | Gm12271 | predicted gene 12271 | 0.355078 | 5.65944 | 2.73963 | 0.0168161 | 0.99974 | 322.916 | -3.64842 |
| 10586140 | LctI | lactase-like | -0.291252 | 6.37277 | -2.73958 | 0.0168176 | 0.99974 | 323.916 | -3.64845 |
| 10478875 | Rnf114 | ring finger protein 114 | 0.287889 | 7.51544 | 2.73526 | 0.0169573 | 0.99974 | 324.916 | -3.65117 |
| 10373649 | Olfr814 | olfactory receptor 814 | 0.318474 | 3.8735 | 2.73261 | 0.0170432 | 0.99974 | 325.915 | -3.65283 |
| 10546229 | NA | NA | -0.33925 | 5.2266 | -2.73129 | 0.0170863 | 0.99974 | 326.915 | -3.65366 |
| 10385447 | Dppa1 | developmental pluripotency associated 1 | 0.347811 | 5.25853 | 2.7301 | 0.0171252 | 0.99974 | 327.915 | -3.65441 |
| 10377255 | Stx8 | syntaxin 8 | 0.29506 | 8.22335 | 2.72938 | 0.0171488 | 0.99974 | 328.915 | -3.65486 |
| 10531057 | Ugt2b5 | UDP glucuronosyltransferase 2 family, polypeptide B5 | 0.381261 | 5.32092 | 2.72669 | 0.0172373 | 0.99974 | 329.914 | -3.65655 |
| 10535974 | Vmn2r18 | vomer nasal 2, receptor 18 | -0.343163 | 5.00723 | -2.72586 | 0.0172646 | 0.99974 | 330.914 | -3.65707 |
| 10428439 | NA | NA | 0.36987 | 4.77696 | 2.72484 | 0.0172986 | 0.99974 | 331.914 | -3.65772 |
| 10407946 | Stard3nl | STARD3 N-terminal like | 0.351168 | 8.57844 | 2.72321 | 0.0173525 | 0.99974 | 332.913 | -3.65874 |
| 10536799 | Fam71f2 | family with sequence similarity 71, member F2 | -0.298171 | 7.58363 | -2.71601 | 0.0175927 | 0.99974 | 333.913 | -3.66327 |
| 10563718 | Gm9717 | predicted gene 9717 | 0.4219 | 6.64062 | 2.71197 | 0.0177293 | 0.99974 | 334.913 | -3.66582 |
| 10568180 | Cd2bp2 | CD2 antigen (cytoplasmic tail) binding protein 2 | 0.302758 | 6.82396 | 2.711 | 0.017762 | 0.99974 | 335.913 | -3.66642 |
| 10441811 | NA | NA | 0.367456 | 8.49807 | 2.71095 | 0.0177639 | 0.99974 | 336.912 | -3.66646 |
| 10465764 | C730048C13Rik | RIKEN cDNA C730048C13 gene | 0.375825 | 4.41497 | 2.71082 | 0.0177682 | 0.99974 | 337.912 | -3.66654 |
| 10474201 | Lmo2 | LIM domain only 2 | 0.292474 | 8.38207 | 2.70898 | 0.0178309 | 0.99974 | 338.912 | -3.6677 |
| 10498323 | 4932431H17Rik | RIKEN cDNA 4932431H17 gene | -0.308424 | 5.59173 | -2.70602 | 0.0179317 | 0.99974 | 339.912 | -3.66956 |
| 10565738 | 2210018M11Rik | RIKEN cDNA 2210018M11 gene | -0.423527 | 8.90877 | -2.7029 | 0.0180392 | 0.99974 | 340.911 | -3.67153 |
| 10545009 | Pigy | phosphatidylinositol glycan anchor biosynthesis, class Y | 0.312172 | 7.50689 | 2.70281 | 0.0180422 | 0.99974 | 341.911 | -3.67158 |
| 10364153 | Gm9744 | predicted gene 9744 | 0.307482 | 6.87018 | 2.69943 | 0.0181591 | 0.99974 | 342.911 | -3.67371 |
| 10550047 | Zscan22 | zinc finger and SCAN domain containing 22 | 0.282489 | 7.1322 | 2.69427 | 0.0183387 | 0.99974 | 343.911 | -3.67696 |
| 10603706 | Med4 | mediator of RNA polymerase II transcription, subunit 4 homolog (yeast) | 0.315167 | 5.51836 | 2.69286 | 0.0183881 | 0.99974 | 344.91 | -3.67785 |
| 10442493 | NA | NA | 0.415765 | 4.54198 | 2.69257 | 0.0183986 | 0.99974 | 345.91 | -3.67804 |
| 10357472 | Cxcr4 | chemokine (C-X-C motif) receptor 4 | 0.315131 | 8.9317 | 2.69197 | 0.0184196 | 0.99974 | 346.91 | -3.67841 |
| 10491081 | NA | NA | -0.294466 | 5.91655 | -2.69165 | 0.0184308 | 0.99974 | 347.91 | -3.67861 |
| 10387723 | 2810408A11Rik | RIKEN cDNA 2810408A11 gene | 0.280887 | 6.18501 | 2.68952 | 0.0185057 | 0.99974 | 348.909 | -3.67996 |
| 10346328 | Mars2 | methionine-tRNA synthetase 2 (mitochondrial) | 0.300953 | 9.71969 | 2.68913 | 0.0185197 | 0.99974 | 349.909 | -3.6802 |
| 10603373 | Pqbp1 | polyglutamine binding protein 1 | 0.287654 | 8.25801 | 2.6891 | 0.0185208 | 0.99974 | 350.909 | -3.68022 |
| 10598499 | Gm7079 | predicted gene 7079 | 0.281435 | 10.019 | 2.68882 | 0.0185306 | 0.99974 | 351.909 | -3.6804 |

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|----------|---------------|---|-----------|---------|----------|-----------|---------|---------|----------|
| 10372988 | Slc16a7 | solute carrier family 16 (monocarboxylic acid transporters), member 7 | -0.293054 | 7.9764 | -2.68648 | 0.0186134 | 0.99974 | 352.908 | -3.68187 |
| 10430679 | NA | NA | 0.709225 | 4.46876 | 2.68599 | 0.0186309 | 0.99974 | 353.908 | -3.68218 |
| 10562084 | Haus5 | HAUS augmin-like complex, subunit 5 | -0.468827 | 6.53923 | -2.68462 | 0.0186798 | 0.99974 | 354.908 | -3.68305 |
| 10367591 | Myct1 | myc target 1 | 0.338226 | 7.45424 | 2.68243 | 0.018758 | 0.99974 | 355.908 | -3.68443 |
| 10414548 | Rnase6 | ribonuclease, RNase A family, 6 | 0.300025 | 8.2449 | 2.68211 | 0.0187694 | 0.99974 | 356.907 | -3.68463 |
| 10428004 | Ankrd33b | ankyrin repeat domain 33B | -0.283023 | 7.9188 | -2.68124 | 0.0188005 | 0.99974 | 357.907 | -3.68518 |
| 10536216 | Gng11 | guanine nucleotide binding protein (G protein), gamma 11 | 0.292181 | 7.5536 | 2.67769 | 0.0189284 | 0.99974 | 358.907 | -3.68742 |
| 10366512 | NA | NA | 0.318888 | 4.90257 | 2.67723 | 0.018945 | 0.99974 | 359.906 | -3.68771 |
| 10428119 | Cox6c | cytochrome c oxidase, subunit VIc | 0.345953 | 9.61016 | 2.67557 | 0.019005 | 0.99974 | 360.906 | -3.68875 |
| 10503188 | Chd7 | chromodomain helicase DNA binding protein 7 | 0.45222 | 8.95395 | 2.67515 | 0.0190201 | 0.99974 | 361.906 | -3.68902 |
| 10406548 | NA | NA | 0.401106 | 5.66042 | 2.67498 | 0.0190266 | 0.99974 | 362.906 | -3.68913 |
| 10532921 | Sspl3 | signal peptide peptidase 3 | 0.360841 | 8.60754 | 2.67367 | 0.019074 | 0.99974 | 363.905 | -3.68995 |
| 10565349 | Vmn2r66 | vomer nasal 2, receptor 66 | -0.42567 | 4.77972 | -2.67125 | 0.0191622 | 0.99974 | 364.905 | -3.69148 |
| 10607950 | NA | NA | -0.305469 | 7.01033 | -2.67121 | 0.0191639 | 0.99974 | 365.905 | -3.69151 |
| 10507833 | Nt5c1a | 5'-nucleotidase, cytosolic IA | -0.281487 | 5.55849 | -2.66883 | 0.019251 | 0.99974 | 366.905 | -3.69301 |
| 10586441 | Oaz2 | ornithine decarboxylase antizyme 2 | 0.417518 | 7.67299 | 2.66797 | 0.0192825 | 0.99974 | 367.904 | -3.69355 |
| 10431722 | Glt8d3 | glycosyltransferase 8 domain containing 3 | -0.31729 | 7.72883 | -2.66283 | 0.0194726 | 0.99974 | 368.904 | -3.6968 |
| 10491060 | Spin3 | spindlin family, member 3 | -0.344629 | 7.13346 | -2.66173 | 0.0195132 | 0.99974 | 369.904 | -3.69749 |
| 10352354 | A430110L20Rik | RIKEN cDNA A430110L20 gene | -0.278134 | 7.16772 | -2.6557 | 0.019739 | 0.99974 | 370.904 | -3.7013 |
| 10592362 | Olfr160 | olfactory receptor 160 | -0.335113 | 5.3725 | -2.65529 | 0.0197543 | 0.99974 | 371.903 | -3.70156 |
| 10576881 | Gm7461 | predicted gene 7461 | -0.270257 | 6.75971 | -2.65495 | 0.0197673 | 0.99974 | 372.903 | -3.70178 |
| 10387180 | Ndel1 | nuclear distribution gene E-like homolog 1 (A. nidulans) | 0.281061 | 8.04729 | 2.6547 | 0.0197765 | 0.99974 | 373.903 | -3.70193 |
| 10488031 | NA | NA | 0.350107 | 4.31791 | 2.65403 | 0.0198016 | 0.99974 | 374.903 | -3.70236 |
| 10469457 | Plxdc2 | plexin domain containing 2 | -0.307107 | 10.9323 | -2.65183 | 0.0198849 | 0.99974 | 375.902 | -3.70375 |
| 10600044 | Prrg3 | proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane) | 0.37398 | 7.1249 | 2.64963 | 0.0199683 | 0.99974 | 376.902 | -3.70514 |